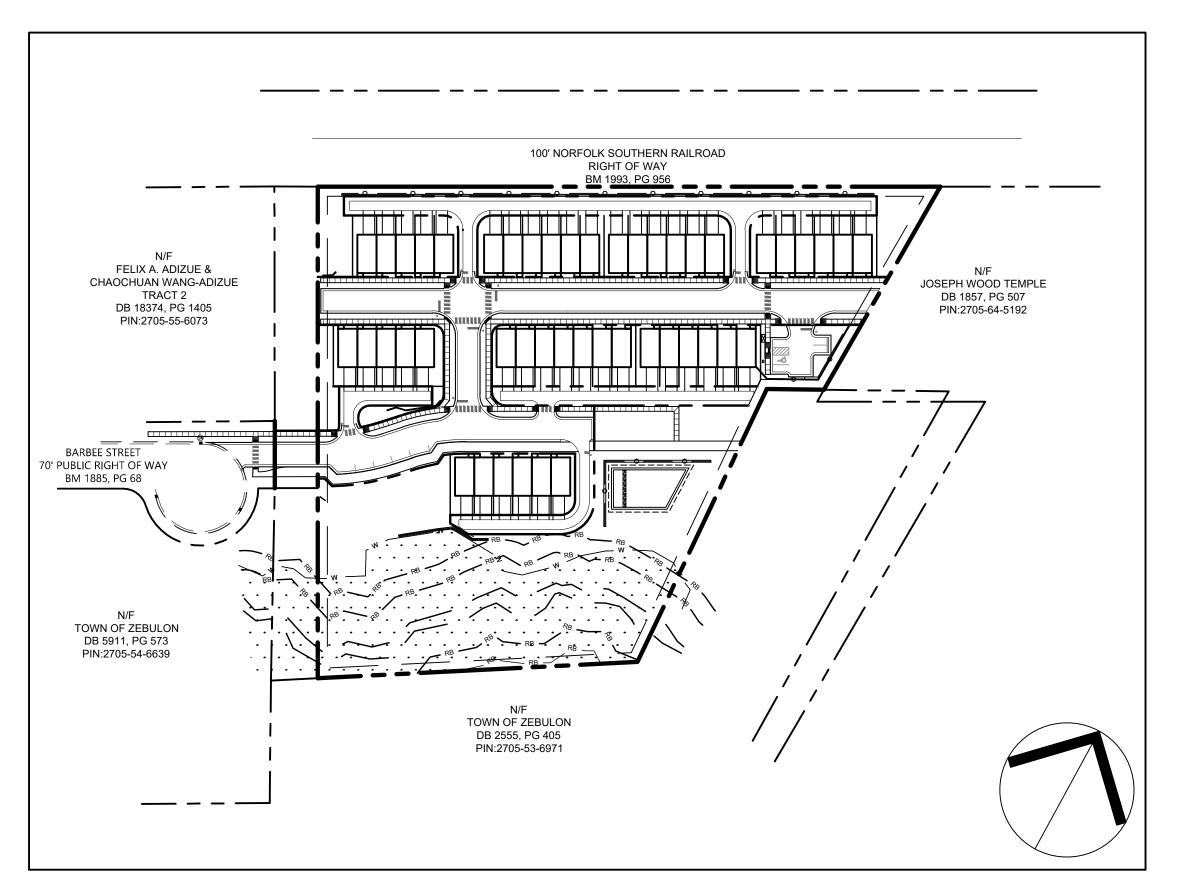
GENERAL NOTES	
1. ALL MATERIALS AND METHODS OF CONSTRUCTION WITH THE LATEST TOWN OF ZEBULON, WAKE COU NORTH CAROLINA STANDARDS AND SPECIFICATIONS	JNTY AND THE STATE OF
2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE EXISTING UTILITIES PRIOR TO BEGINNING CONSTRU	UCTION.
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6. NO PORTION OF THE PROPERTY IS LOCATED WITH BASED ON THE MAP #3720270500K MAP REVISE	
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THIS SITE IS NOT IN ANY SPECIAL FLOOD HAZARD AREAS OR FUTURE CONDITIONS FLOOD HAZARD AREAS, AS SHOWN ON FIRM PANEL <u>3720270500K</u> DATED <u>JULY 19, 2022.</u>

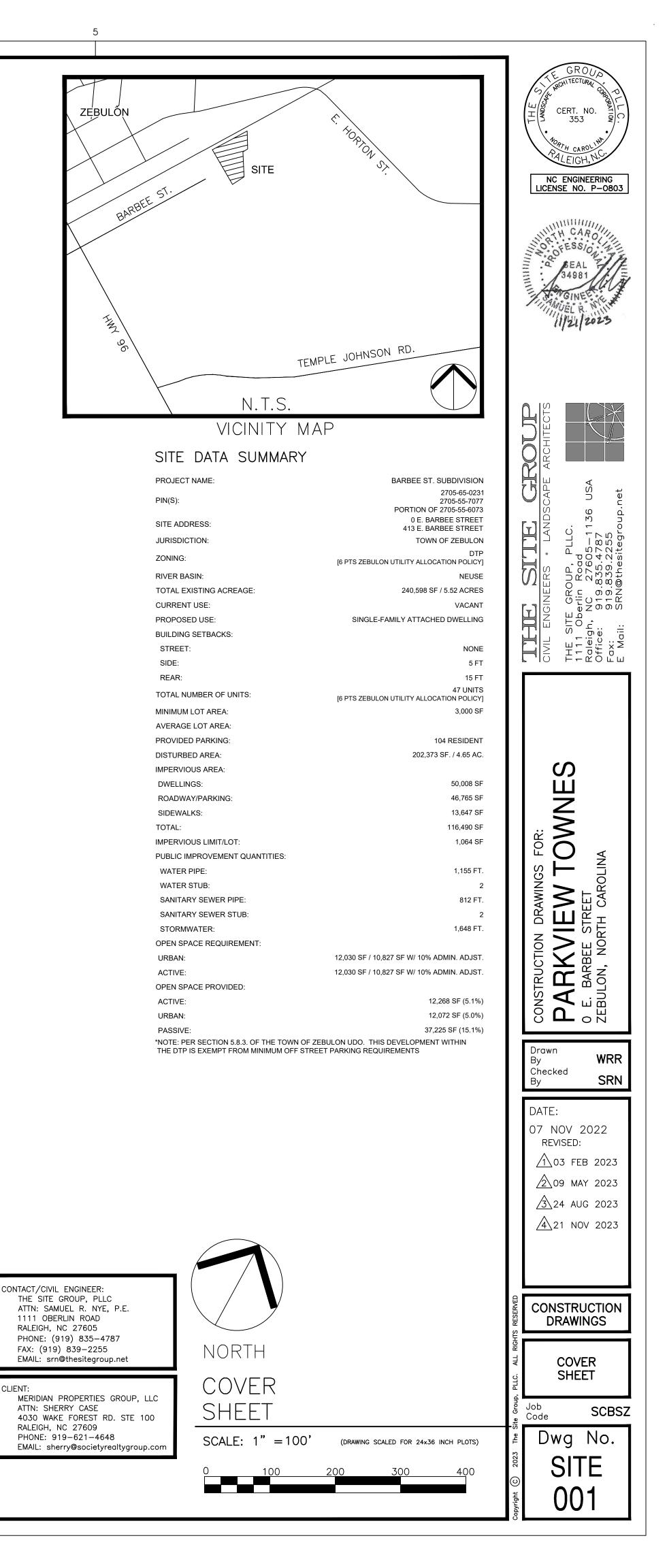
PARKVIEW TOWNES 0 EAST BARBEE STREET ZEBULON, NORTH CAROLINA

CONSTRUCTION DRAWINGS TOWN OF ZEBULON PROJECT # 895911



DRAWING	IGS INDEX:
SITE 001 SITE 002 BD-1 SITE 100 SITE 200 SITE 300 SITE 301 SITE 302 SITE 302 SITE 302 SITE 302 SITE 303 SITE 304 SITE 304 SITE 500 SITE 600 SITE 600 SITE 601 SITE 601 SITE 602 SITE 701 SITE 703 SITE 703 SITE 704 SITE 705 SITE 706 SITE 707 SITE 708	INITIAL EROSION CONTROL PLAN PHASE 2 FINAL EROSION CONTROL PLAN NPDES PLAN UTILITY PLAN DUKE ENERGY LIGHTING PLAN

THIS PROJECT MUST FOLLOW ALL USE SPECIFIC GUIDELINES LAID OUT IN CHAPTER 4 OF THE TOWNS UDO WHICH PERTAIN TO THIS PROJECT.



ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST TOWN OF ZEBULON, WAKE COUNTY AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (811) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.	 ALL CONSTRUCTION SHALL COMPLY WITH TOWN OF ZEBULON STANDARDS AND SPECIFICATIONS. EXISTING CONDITION INFORMATION SHOWN IS TAKEN FROM A SURVEY BY ANGLE RIGHT LAND SURVEYING PLLC DATED JUNE 1, 2022. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING, COORDINATING, AND PAYMENT FOR ALL NECESSARY LOCATING SERVICES INCLUDING INDEPENDENT LOCATING SERVICES. THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES LOCATED AT LEAST 48 HOURS PRIOR TO BEGINNING DEMOLITION,
EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS	NECESSARY LOCATING SERVICES INCLUDING INDEPENDENT LOCATING SERVICES. THE CONTRACTOR SHALL
UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS	EXCAVATION, OR ANY OTHER FORM OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY
	THE OWNER'S REPRESENTATIVE OR ANY DISCREPANCIES OR CONFLICTS. 4. EXISTING IMPROVEMENTS DAMAGED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED OR REPLACED TO ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER'S
BOUNDARY AND SURVEY INFORMATION IS TAKEN FROM A SURVEY BY ANGLE RIGHT LAND SURVEYING, PLLC DATED JUNE 1, 2022.	REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE. 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL PERMITS, INSPECTIONS, CERTIFICATIONS, AND OTHER REQUIREMENTS WHICH MUST BE MET UNDER THIS CONTRACT ARE OBTAINED.
LL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.	 IF DEPARTURES FROM THE PROJECT DRAWINGS OR SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREFORE SHALL BE SUBMITTED TO THE
NO PORTION OF THE PROPERTY IS LOCATED WITHIN A FEMA AE FLOOD ZONE BASED ON THE MAP #3720270500K MAP REVISED JULY 19, 2022.	OWNER'S REPRESENTATIVE FOR REVIEW PRIOR TO CONSTRUCTION. NO DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE OWNER'S REPRESENTATIVE.
THE ROAD CLASSIFICATIONS FOR THIS PROJECT CONSIST OF LOCAL AND ALLEY.	7. THE ENGINEER DISCLAIMS ANY ROLE IN THE CONSTRUCTION MEANS AND/OR METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
RADING NOTES: ALL CONSTRUCTION SHALL COMPLY WITH TOWN OF ZEBULON AND WAKE COUNTY STANDARDS	8. THE STREETS IN FRONT OF THE PROJECT WILL BE KEPT CLEAN AT ALL TIMES OR A WASH STATION WILL BE REQUIRED.
AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING, COORDINATING, AND PAYMENT FOR ALL NECESSARY LOCATING SERVICES INCLUDING INDEPENDENT LOCATING SERVICES. THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES LOCATED AT LEAST 48 HOURS PRIOR TO BEGINNING DEMOLITION, EXCAVATION, OR ANY OTHER FORM OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES OR CONFLICTS.	 THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION IS SCHEDULED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY (CO). THE FENCING SHALL BE REMOVED IMMEDIATELY PRIOR TO THE FINAL SITE INSPECTION FOR THE SITE. TREE PROTECTION FENCING SHALL NOT BE MOVED AND THERE SHALL BE NO ENCROACHMENT INTO SUCH PROTECTED AREA(S) WITHOUT WRITTEN AUTHORIZATION OF THE TOWN'S ZONING COMPLIANCE
EXISTING IMPROVEMENTS DAMAGED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED OR REPLACED TO ORIGINAL CONDITION AND TO THE SATISFACTION OF THE DWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.	STAFF. ANY ACTIVITY (LANDSCAPING, FENCING, OR UTILITY INSTALLATION) SHOWN ON THE APPROVED PLANS IN A TREE PROTECTION AREA, SHALL ALSO NOT OCCUR WITHOUT WRITTEN AUTHORIZATION FROM THE TOWN'S ZONING COMPLIANCE STAFF. ANY UNAUTHORIZED ENCROACHMENT OR DISTURBANCE WITHIN THE BOUNDARIES OF A TREE PROTECTION AREA SHALL AUTOMATICALLY RESULT IN FINES AND THE REPLACEMENT OF ANY DAMAGED VEGETATION IN ACCORDANCE WITH THE LAND DEVELOPMENT ORDINANCE
THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL PERMITS, INSPECTIONS, CERTIFICATIONS, AND OTHER REQUIREMENTS WHICH MUST BE MET UNDER THIS CONTRACT ARE OBTAINED.	NPDES PLAN NOTES
F DEPARTURES FROM THE PROJECT DRAWINGS OR SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREFORE SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW PRIOR TO CONSTRUCTION. NO DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE OWNER'S REPRESENTATIVE.	 THIS PAGE IS SUBMITTED TO COMPLY WITH NPDES GENERAL STORMWATER PERMIT NCG010000. THIS PAGE CAN BE APPROVED BY THE CITY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000 ONLY. THIS PAGE OF THE APPROVED PLANS IS ENFORCEABLE EXCLUSIVELY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000.
THE ENGINEER DISCLAIMS ANY ROLE IN THE CONSTRUCTION MEANS AND/OR METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.	STANDARD UTILITY NOTES
TO MINIMIZE DAMAGE TO EXISTING TREES NEAR THE INTERIOR EDGE OF BUFFERS AND STREETSCAPES, THE CONTRACTOR SHALL CUT MIN. 2' TRENCHES ALONG THE LIMITS OF DISTURBANCE, SO AS TO CUT, RATHER THAN TEAR, THE TREE ROOTS. THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL THE SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION PRIOR TO CERTIFICATE OF OCCUPANCY(CO) IS SCHEDULED. THE FENCING SHALL BE REMOVED PRIOR TO FINAL SITE INSPECTION FOR THE CO.	CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION) 2. UTILITY SEPARATION REQUIREMENTS: A) A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN
L STORM DRAIN FRAMES GRATES & HOODS SHALL BE STAMPED WITH "DRAINS TO RIVER" IN CCORDANCE WITH TOWN OF ZEBULON STANDARDS. L RISER STRUCTURES AND BARRELS MUST BE ON SITE BEFORE THE GRADING PERMIT IS	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
SUED. IS PROJECT WILL REQUIRE A PRE-CONSTRUCTION CONFERENCE BEFORE THE GRADING PERMIT ISSUED.	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
CUT AND FILL SLOPE THAT IS (2:1) OR GREATER SHALL BE STABILIZED WITH PERMANENT OPE RETENTION DEVICES OR A SUITABLE COMBINATION OF PLANTINGS AND RETENTION /ICES. SLOPES GREATER THAN THREE TO ONE (3:1) SHALL NOT BE STABILIZED WITH TURF ASS BUT MUST BE STABILIZED WITH VEGETATION THAT REQUIRES MINIMAL MAINTENANCE. EPING LOVE GRASS, RED FESCUE OR OTHER APPROVED VARIETY. (CHAPTER 7, PART 2, CTION 4, (G) LDO).	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
IE ESTABLISHMENT OF PERMANENT GROUND COVER WILL BE ESTABLISHED IN 15 WORKING AYS OR 90 CALENDAR DAYS, WHICH EVER IS SHORTER. THE SITE SHALL BE STABILIZED AND EEDED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY (CO).	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
E TREE PROTECTION FENCING ON THIS PROJECT WILL BE INSTALLED AND INSPECTED BEFORE E GRADING PERMIT IS ISSUED. THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE E UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION IS SCHEDULED NOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY (CO). THE FENCING SHALL BE MOVED IMMEDIATELY PRIOR TO THE FINAL SITE INSPECTION FOR THE SITE.	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
THE PROJECT WILL MEET ALL OF THE REQUIREMENTS RELATIVE TO BEST MANAGEMENT PRACTICES AND ENGINEERED STORMWATER CONTROL STRUCTURES AS OUTLINED IN THE TOWN OF ZEBULON UNIFIED DEVELOPMENT ORDINANCE. (CHAPTER 4, PART 4.6, LDO).	F) ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED 3. ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF
LL LEVEL SPREADERS ON THE PROJECT MUST BE LOCATED ON COMMON OPEN SPACE, HAVE N ACCESS AND MAINTENANCE EASEMENTS LOCATED AROUND THEM AND INCLUDE AN PERATIONS AND MAINTENANCE MANUAL AND A MAINTENANCE AGREEMENT.	AN AMENDED PLAN &/OR PROFILE BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION 4. DEVELOPER SHALL PROVIDE 30 DAYS ADVANCE WRITTEN NOTICE TO OWNER FOR
O TIEBACKS FOR RETAINING WALLS WILL BE ALLOWED TO ENCROACH INTO THE CITY OF ALEIGH PUBLIC UTILITY EASEMENT. ETAINING WALLS WILL REQUIRE A SEPARATE PERMIT FROM THE TOWN OF ZEBULON	ANY WORK REQUIRED WITHIN AN EXISTING CITY OF RALEIGH UTILITY EASEMENT TRAVERSING PRIVATE PROPERTY 5. CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF
SPECTIONS AND PERMITS DEPARTMENT. IE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS OMPLETED AND THE FINAL SITE INSPECTION IS SCHEDULED PRIOR TO THE ISSUANCE OF A	PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24 HOUR ADVANCE NOTICE TO THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT 6. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCE
RTIFICATE OF OCCUPANCY. THE FENCING SHALL BE REMOVED IMMEDIATELY PRIOR TO THE IAL SITE INSPECTION FOR THE SITE. E SITE SHALL BE STABILIZED AND SEEDED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF	MAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS 7. IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE
CCUPANCY. (CO) URB INLET RIM ELEVATIONS REFER TO FLOW LINE. ADD 6" FOR TOP OF CURB ELEVATION.	UNLESS OTHERWISE DIRECTED BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER CORPUD HANDBOOK PROCEDURE
ALL STORM DRAIN FRAMES, GRATES AND HOODS SHALL BE STAMPED WITH "DRAINS TO RIVER" N ACCORDANCE WITH TOWN OF ZEBULON STANDARDS.	8. INSTALL ¾" 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
RISER STRUCTURES AND BARRELS MUST BE ON SITE BEFORE THE GRADING PERMIT IS ISSUED.	CONNECTION TO PROVIDE ADEQUATE FLOW & PRESSURE 9. INSTALL 4" PVC* SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET
M CONSTRUCTION NOTES:	MAXIMUM 10. PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY
STANDARDS AND SPECIFICATIONS. THE PROJECT WILL MEET ALL REQUIREMENTS RELATIVE TO BEST MANAGEMENT PRACTICES AND ENGINEERED STORMWATER CONTROL STRUCTURES AS OUTLINED IN THE NCDEQ STORMWATER DESIGN MANUAL. THE CONTRACTOR SHALL WARRANTY ALL PLANTED MATERIALS FOR A PERIOD OF 2 YEARS FROM DATE OF	SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE 11. ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDWQ, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR
NSTALLATION. AT THE END OF THE FIRST YEAR AND AT THE END OF THE SECOND YEAR, THE CONTRACTOR SHALL REPLACE ALL PLANTS WHICH DO NOT SURVIVE. ANY HEALTHY PLANTS DAMAGED DURING PLANT REPLACEMENT SHALL ALSO BE REPLACED.	FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION. 12. NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE
LANDSCAPING PLANTINGS SHOWN HEREON SHALL BE INSTALLED DURING FALL SEASON OR EARLY WINTER IF POSSIBLE FOR MAXIMUM PLANT SURVIVABILITY. THE CONTRACTOR OR OWNER SHALL EMPLOY A GEOTECHNICAL ENGINEER TO TEST ALL EMBANKMENTS AND FILL PLACEMENT FOR PROPER COMPACTION PROPER COMPACTION SHALL BE PER THE GEOTECHNICAL ENGINEER'S	OFFILITE WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION 13. GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE CORPUD FOG
PLACEMENT FOR PROPER COMPACTION. PROPER COMPACTION SHALL BE PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS OR THESE PLANS, WHICHEVER IS MORE STRINGENT. EMBANKMENTS FOR BASINS SHALL BE PLACED IN 6 INCH LOOSE LAYERS AND SHALL BE COMPACTED TO A DENSITY OF NO LESS THAN 95% OF THE STANDARD PROCTOR MAXIMUM DENSITY AT A MOISTURE CONTENT OF + OR – TWO PERCENTAGE POINTS OF THE	INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE CORPUD FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A BUILDING PERMIT. CONTACT TIM BEASLEY AT (919) 996–2334 OR TIMOTHY.BEASLEY@RALEIGHNC.GOV FOR MORE INFORMATION
STANDARD PROCTOR MAXIMUM DENSITY AT A MOISTURE CONTENT OF + OR - TWO PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698. THE CONTRACTOR SHALL TAKE PHOTOGRAPHS OF THE OUTLET STRUCTURE AT ALL PHASES OF INSTALLATION AND SHALL RETAIN WITH GEOTECHNICAL TESTING DATA. THE CONTRACTOR SHALL ALSO RETAIN ALL SHIPPING RECORDS AND SPECIFICATIONS FOR THE OUTLET STRUCTURE WATERIALS AND STRUCTURES. ALL OF THE ABOVE DATA MAY BE REQUIRED AS PART OF THE MUNICIPALITY AS-BUILT PROCESS AND SHALL DE MADE AVAILABLE TO THE ENGINEER UPON REQUEST. THE CONTRACTOR AND OWNER SHALL HAVE DOCUMENTATION OF THESE TESTS AVAILABLE UPON REQUEST.	 14. 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

ON CONTROL NOTES

PLANTING NOTES: LOCATE PLANTS AND PLANTING BEDS BY USING SCALED DIMENSIONS FROM STREET, PROPERTY LINES, BACK OF CURB, BUILDINGS, WALLS, ETC. ALL PLANTS SHALL MEET OR EXCEED THE MINIMUM STANDARDS SET BY THE U.S.D.A. FOR NURSERY STOCK SPONSORED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC., WASHINGTON, D.C. NO SUBSTITUTIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL FROM THE OWNER AND/OR THE LANDSCAPE ARCHITECT. SYMBOLS: B&B = BALLED & BURLAPPED; B.R. = BARE ROOT; CONT. = CONTAINER, O.C. = ON-CENTER, (R) = TO REMAIN MULCH: MULCH ALL BED AREAS WITH HARDWOOD MULCH TO A DEPTH OF 3".

NOTE: 1. ANY TREES IN SIGHT TRIANGLES WILL BE LIMBED UP TO A HEIGHT OF 8'. ALL SHRUBS LOCATED IN SIGHT TRIANGLES WILL BE MAINTAINED BELOW 2'.

LANDSCAPE REQUIREMENTS:

1. THE SITE SHALL BE STABILIZED AND SEEDED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY

2. ALL SHRUB SPECIES SHALL REACH A MINIMUM OF 36" WITHIN THREE YEARS OF INSTALLATION.

- 2. ALL MECHANICAL EQUIPMENT, WASTE DISPOSAL FACILITIES, AND VEHICULAR USE AREAS (DRIVES AND PARKING) SHALL BE SCREENED FROM PUBLIC VIEW. 3. ALL ABOVE GROUND UTILITY EQUIPMENT AND FACILITIES ASSOCIATED WITH ON-SITE ELECTRIC, CABLE, TELEPHONE, GAS OR OTHER SIMILAR UTILITY SHALL BE LOCATED IN THE SIDE OF REAR YARD AREA OF THE SITE AND SCREENED, TO THE EXTENT POSSIBLE, WITH EVERGREEN PLANTINGS. PLANTINGS SHALL ALLOW FOR A MINIMUM OF 5' CLEARANCE AROUND THE STRUCTURE TO ALLOW FOR ACCESS. ADDITIONALLY, ANY SIDE OF THE
- STRUCTURE HAVING A DOOR OR LOCK, THE PLANTINGS SHALL ALLOW FOR A 10' CLEARANCE. THE AMOUNT OF CLEARANCE SHALL ACCOUNT FOR THE SIZE OF THE PLANT MATERIAL AT MATURITY. 4. THE SIZE OF THE PLANTING AREA AND SIZE OF PLANT MATERIAL AT MATURITY SHALL ALLOW FOR A 2.5' BUMPER OVERHANG FROM THE BACK OF CURB.
- 5. NO TREE SHALL BE LOCATED WITHIN A ROADWAY RIGHT OF WAY OR WITHIN 5' OF A SIDEWALK AND WITHIN 20' OF A LIGHTING LOCATION.
- 6. ALL SHRUBS INSTALLED AS VEHICULAR USE SCREENING WILL BE MAINTAINED AS A CONTINUOUS HEDGE AT A MINIMUM HEIGHT OF 36 INCHES.
- SHOWN ON THE LANDSCAPE PLAN BASED ON ACTUAL FIELD CONDITIONS. 8. UPON ESTABLISHMENT OF FINISHED GRADES AND PRIOR TO BEGINNING INSTALLATION OF ANY TREES, A SOIL AMENDMENT SCHEDULE FOR ALL TREE PLANTINGS SHALL BE PREPARED BY A CERTIFIED LANDSCAPE ARCHITECT
- AND BE PROVIDED TO THE TOWN OF ZEBULON PLANNING DEPARTMENT PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, A CERTIFIED STATEMENT SHALL BE PROVIDED TO CITY STAFF SITE INSPECTOR ATTESTING TO THE FACT THAT THE SOIL AMENDMENT SCHEDULE WAS FOLLOWED AS SPECIFIED IN THE APPROVED SITE AND/OR SUBDIVISION PLAN. THIS STATEMENT SHALL BE CERTIFIED BY A REGISTERED LANDSCAPE ARCHITECT, CERTIFIED ARBORIST, OR OTHER SPECIALIST AS DETERMINED ACCEPTABLE BY
- THE PLANNING DIRECTOR. 10. THE PROPERTY OWNER OR DEVELOPER SHALL PROVIDE FOR CONTINUOUS MAINTENANCE OF THE LANDSCAPE AREAS AFTER OCCUPANCY OF THE BUILDING. THE PROPERTY OWNER SHALL ENSURE THAT PERFORMANCE CRITERIA WITHIN THIS ORDINANCE AND/OR INCLUDED ON THE APPROVED SITE AND/OR SUBDIVISION PLAN ARE MET. FAILURE TO CORRECT DEFICIENCIES IN A TIMELY MANOR SHALL RESULT IN A CITATION FOR VIOLATION OF THIS ORDINANCE IN ACCORDANCE WITH CHAPTER 11.
- 11. ALL FOUNDATION PLANTINGS SHALL BE DESIGNED TO TOWN OF ZEBULON UDO SECTION REQUIREMENTS. THE TOWN OF ZEBULON SITE INSPECTOR RESERVES THE RIGHT TO REQUIRE ADDITIONAL PLANTINGS BASED ON ACTUAL FIELD CONDITIONS.
- 12. ALL PLANTINGS WITHIN THE SIGHT DISTANCE TRIANGLES MUST BE 30 INCHES OR LESS IN HEIGHT OR MUST BE LIMBED UP TO PROVIDE 8' FROM THE LOWEST LIMBS TO THE CURB LINE ELEVATION OR THE NEAREST TRAVEL WAY IF NO CURBING EXISTS.

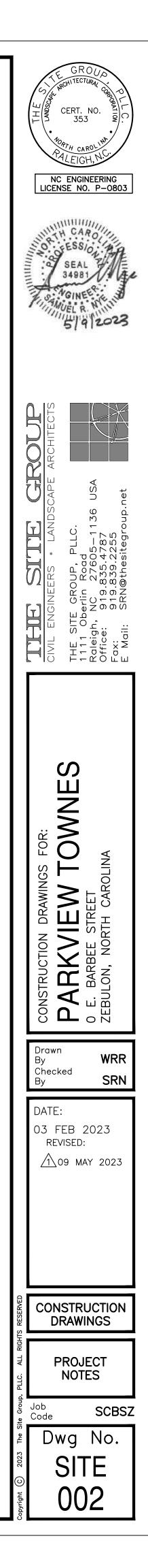
LANDSCAPE MAINTENANCE PLAN:

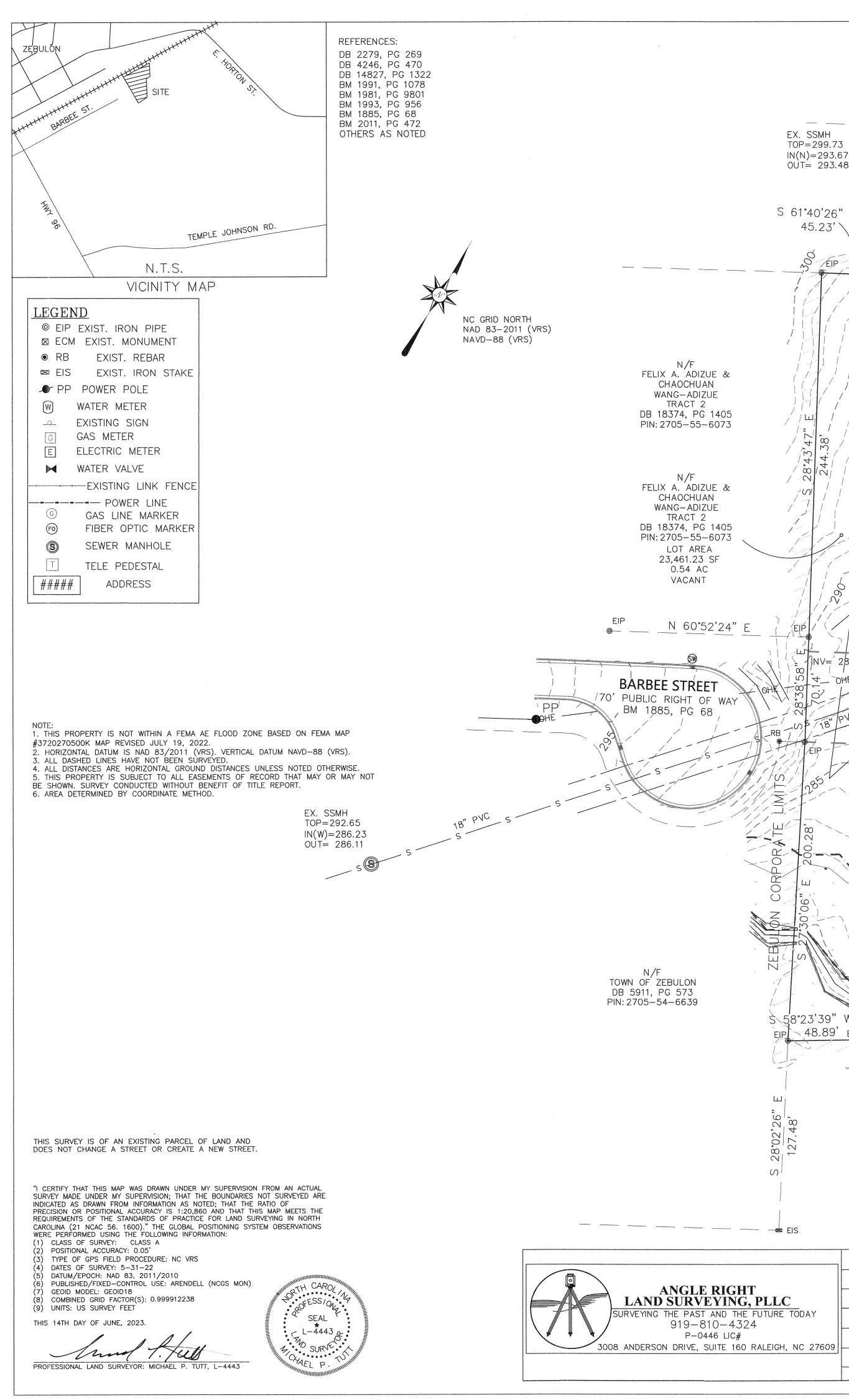
THE OWNERS OF THE PROPERTY AND THEIR AGENTS, HEIRS OR ASSIGNS SHALL BE RESPONSIBLE FOR THE INSTALLATION, PRESERVATION AND MAINTENANCE OF ALL PLANTINGS AND PHYSICAL FEATURES SHOWN ON THIS PLAN. THE OWNERS SHALL BE RESPONSIBLE FOR ANNUAL MAINTENANCE OF THE VEGETATION TO INCLUDE BUT NOT LIMITED TO: A. <u>FERTILIZATION:</u> FERTILIZE LAWNS TWICE PER YEAR (FEBRUARY 15-MARCH 15 AND AGAIN SEPTEMBER 1-OCTOBER 31) ACCORDING TO SOIL TEST. FERTILIZE WARM SEASON GRASSES ONCE DURING THE GROWING SEASON PER B. PRUNING: PRUNING SHALL BE LIMITED TO REMOVAL OF DEAD WOOD OR BRANCHES FOR TREES OR FOR SIGHT DISTANCES/SAFETY REASONS. THE ANSI A300 STANDARDS SHOULD BE ADHERED TO. THE PRUNING OF SHRUBS SHALL BE LIMITED TO THE PRUNING NECESSARY TO MAINTAIN THE NATURAL SHAPE OF THE PLANT EXCEPT FOR SHEARED HEDGES. C. <u>PEST CONTROL:</u> PRE-EMERGENT WEED CONTROL FOR SHRUB BEDS MAY BE APPLIED IN FEBRUARY. CHEMICAL TREATMENT FOR INSECT INFESTATION AND DISEASE MAY BE APPLIED AND SHALL BE SPECIFIC TO THE D. <u>MULCHING:</u> MULCHING SHALL BE MAINTAINED AT A DEPTH OF 2-3" IN SHRUB BEDS. MULCH SHALL BE REAPPLIED EVERY TWO YEARS. AS NECESSARY TO MAINTAIN THE AVERAGE DEPTH OF THE PLANT BED. E. MOWING: PRIMARY FESCUE LAWNS SHALL BE MAINTAINED AT A HEIGHT OF 3" AND SHALL BE MOWED APPROXIMATELY 30 TIMES PER YEAR. SECONDARY TURF AREAS MAY BE MAINTAINED HIGHER AND LESS FREQUENTLY. VARM SEASON GRASSES SHALL BE MOWED AS NEEDED DURING THE GROWING SEASON TO MAINTAIN THE RECOMMENDED HEIGHT OF THE SPECIES OF TURF GRASS.

- F. PLANT PROTECTION: AVOID EXCESS INTRUSION INTO THE ROOT ZONE AREA OF ESTABLISHED PLANTINGS. G. WATERING: IF ANY IRRIGATION SYSTEM IS UTILIZED, THE SYSTEM SHALL BE REGULATED TO PROVIDE APPROXIMATELY 1" OF RAINFALL PER WEEK DURING THE GROWING SEASON. (PENDING TOWN OF ZEBULON
- WATER/IRRIGATION SUPPLIES.) H. PLANT REPLACEMENT: ANY REQUIRED PLANTING, WHICH IS REMOVED OR DIES AFTER DATE OF PLANTING SHALL BE REPLACE DURING THE NEXT PLANTING SEASON. ALSO, ANY TREE IN A TREE PRESERVATION AREA WHICH IS REMOVED OR DIES SHALL BE REPLACED DURING THE NEXT PLANTING SEASON.

REMOVAL OF DISEASE INFESTED MATERIAL SHALL BE ALLOWED SO LONG AS REQUIRED SHRUBS ARE REPLACED AT THE REQUIRED RATES AND SIZES. FAILURE TO MAINTAIN REQUIRED LANDSCAPE AREAS SHALL CONSTITUTE A VIOLATION OF THIS UDO ENFORCEABLE UNDER THE PROVISIONS OF SECTION 10-ENFORCEMENT.

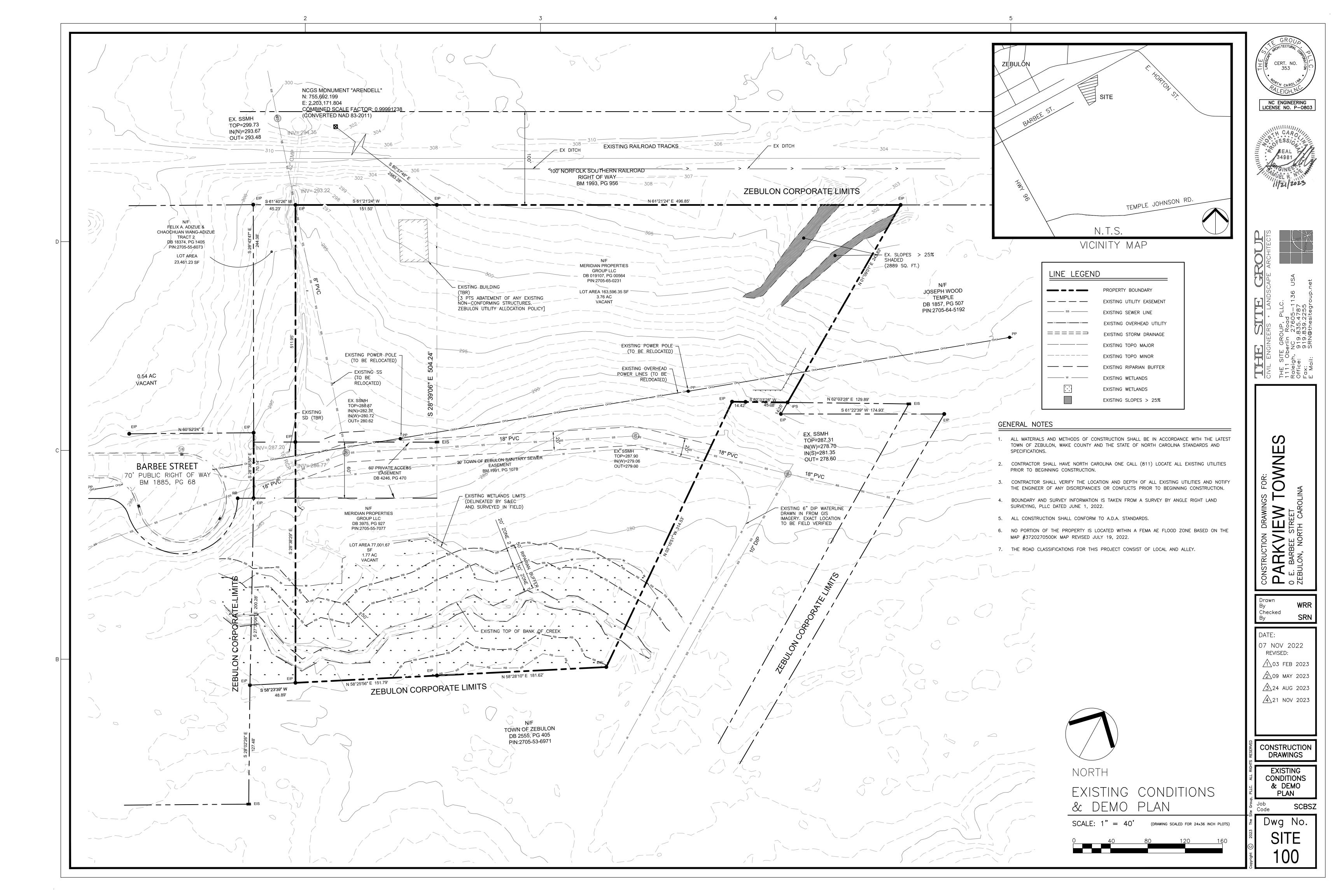
7. WHERE EXISTING OR PROPOSED VEGETATION FAILS TO FUNCTION ADEQUATELY AS REQUIRED, THE TOWN OF ZEBULON SITE INSPECTOR RESERVES THE RIGHT TO REQUIRE SUPPLEMENTAL PLANTINGS IN ADDITION TO THOSE

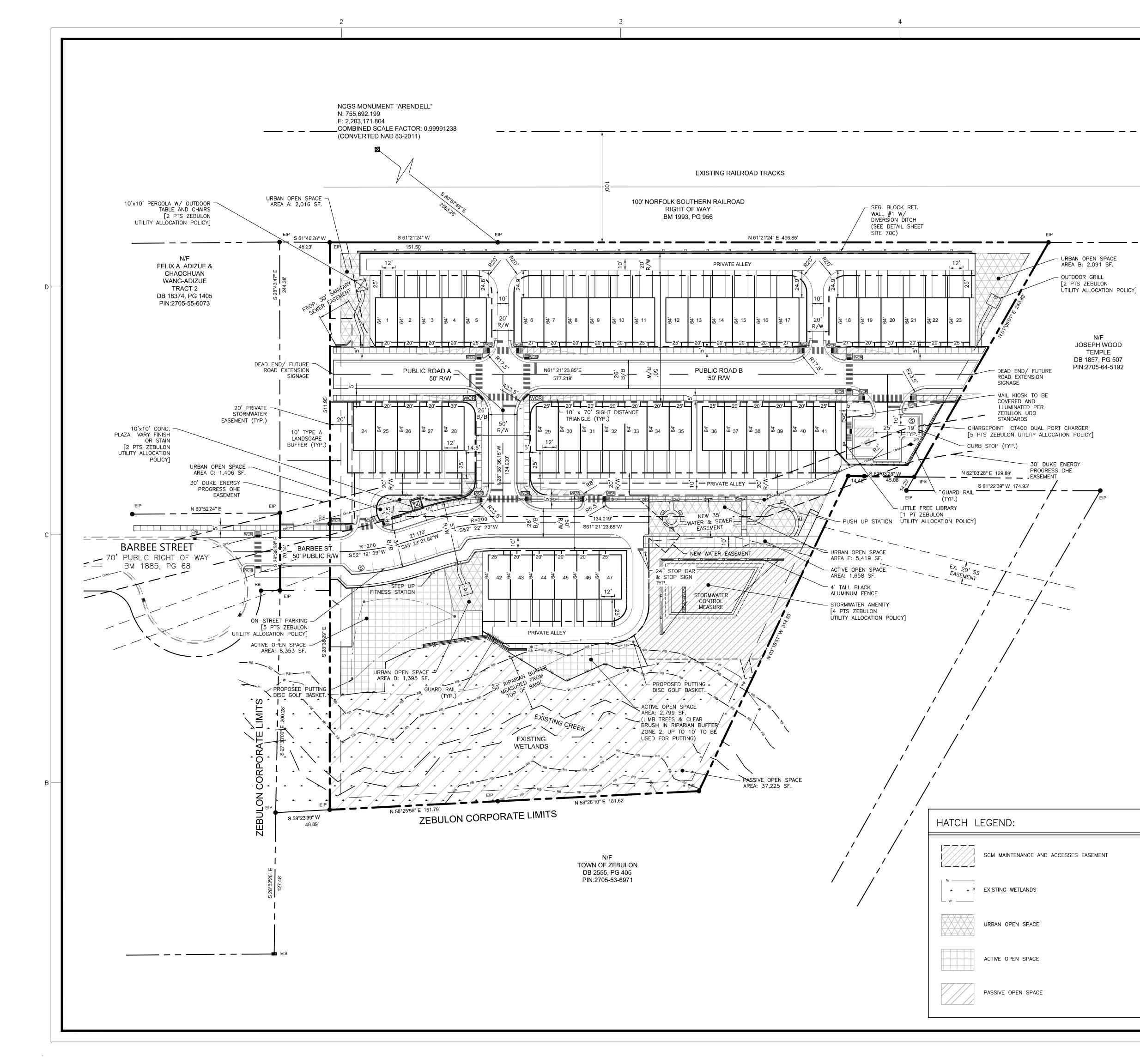


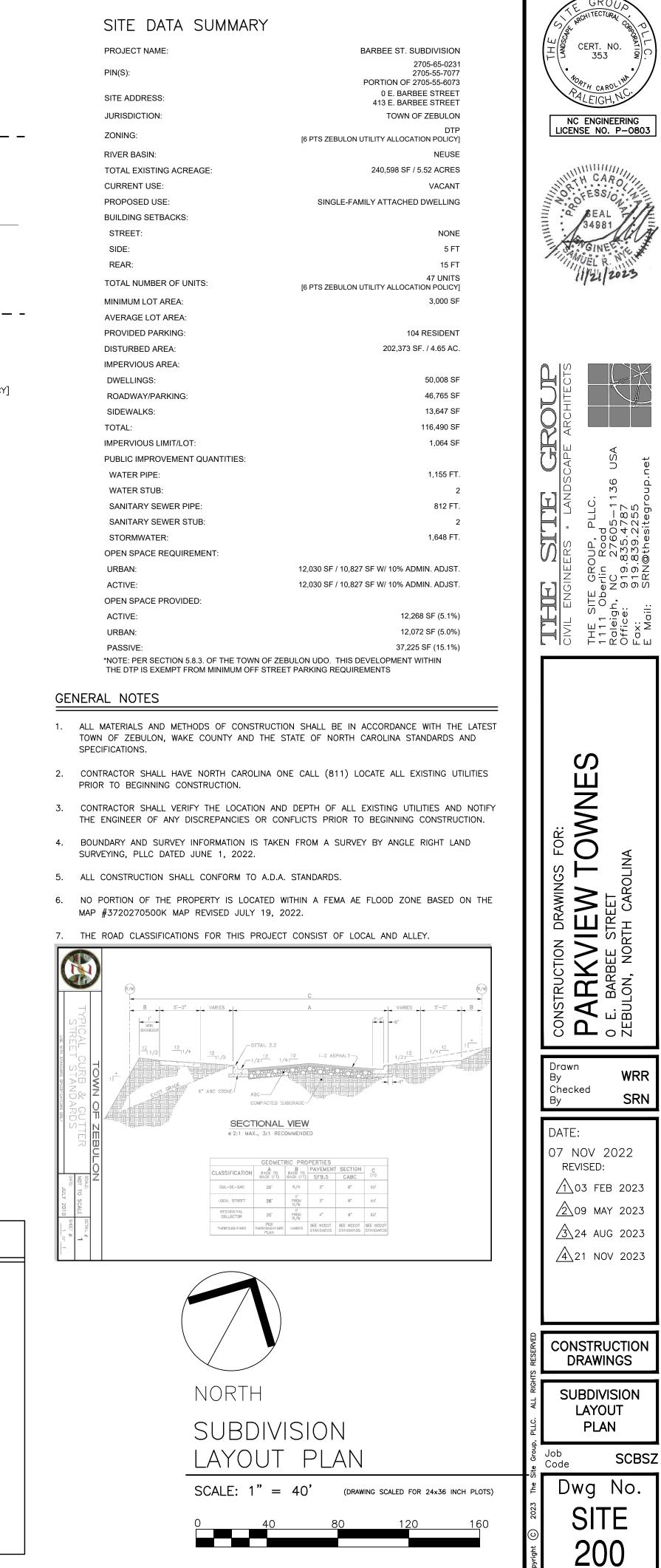


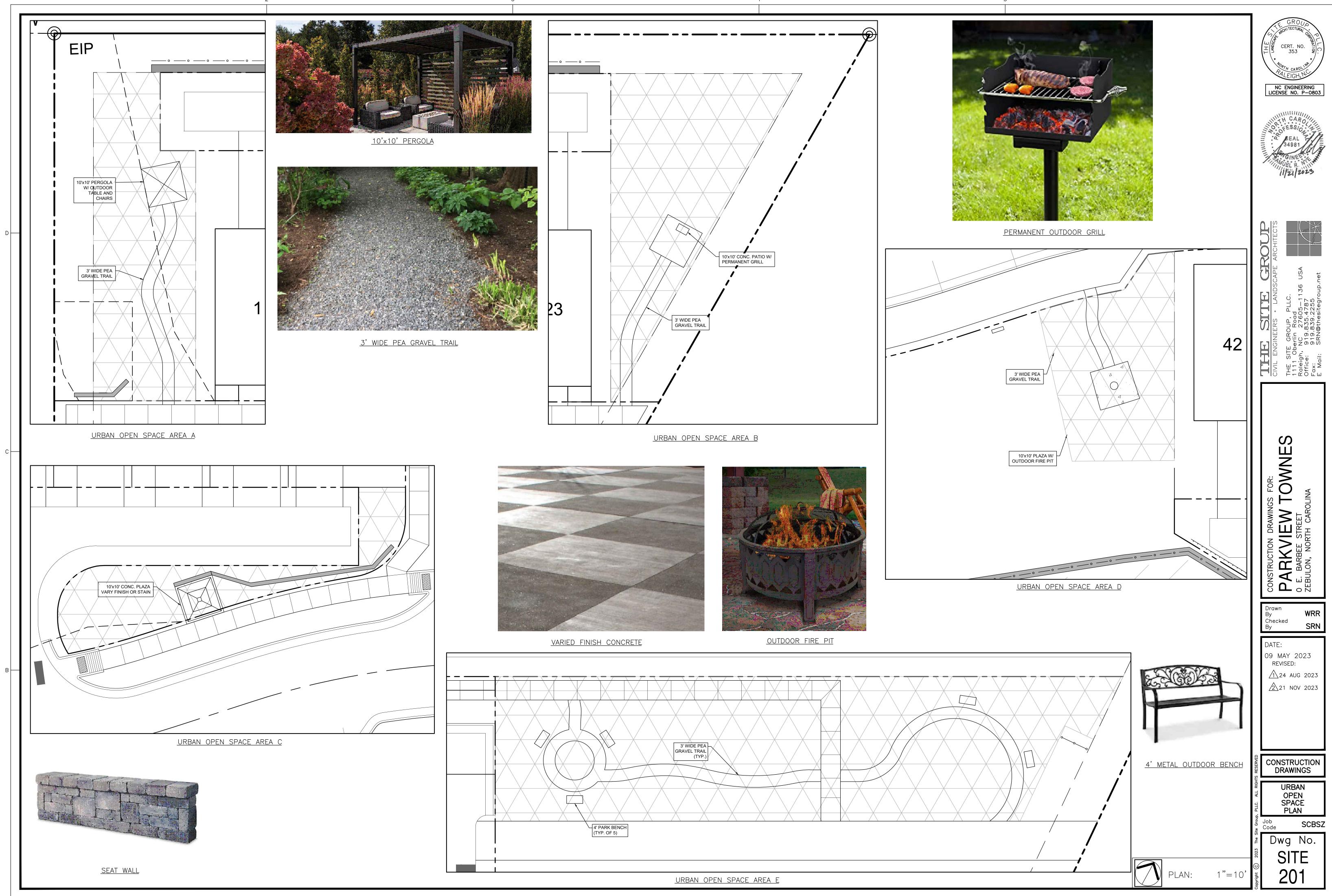
EX. SSMH TOP=299.73 IN(N)=293.6 OUT= 293.4	$ \begin{array}{c} $	S MONUMENT "AREND 755,692.199 2,203,171.804 BINED SCALE FACTOR NVERTED NAD 83-201	: 0.99991238			
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244.38'	VEIP S S 8" PVC	151.50	EXISTING HOUSE	300	DB PIN:	N 61°21'24" 305
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S 28.02'26" E P 48'83, 127.48'	FROM TOP	58°25'56" E 151.	79' EIP		405	
EIS HT G, PLLC HE FUTURE TODAY 324 # 60 RALEIGH, NC 27609	1 AE 2 RE 3 R	SCRIPTION DED OFF-SITE SI /ISED FEMA MAP EVISED PIPE FROM ED NEW OWNER I	REFERENCE AN M 8" TERRACOT	ID ISSUE DATE.	DATE 3-23-23 5-1-23 6-14-23 6-14-23	BOUNDARY & TOP

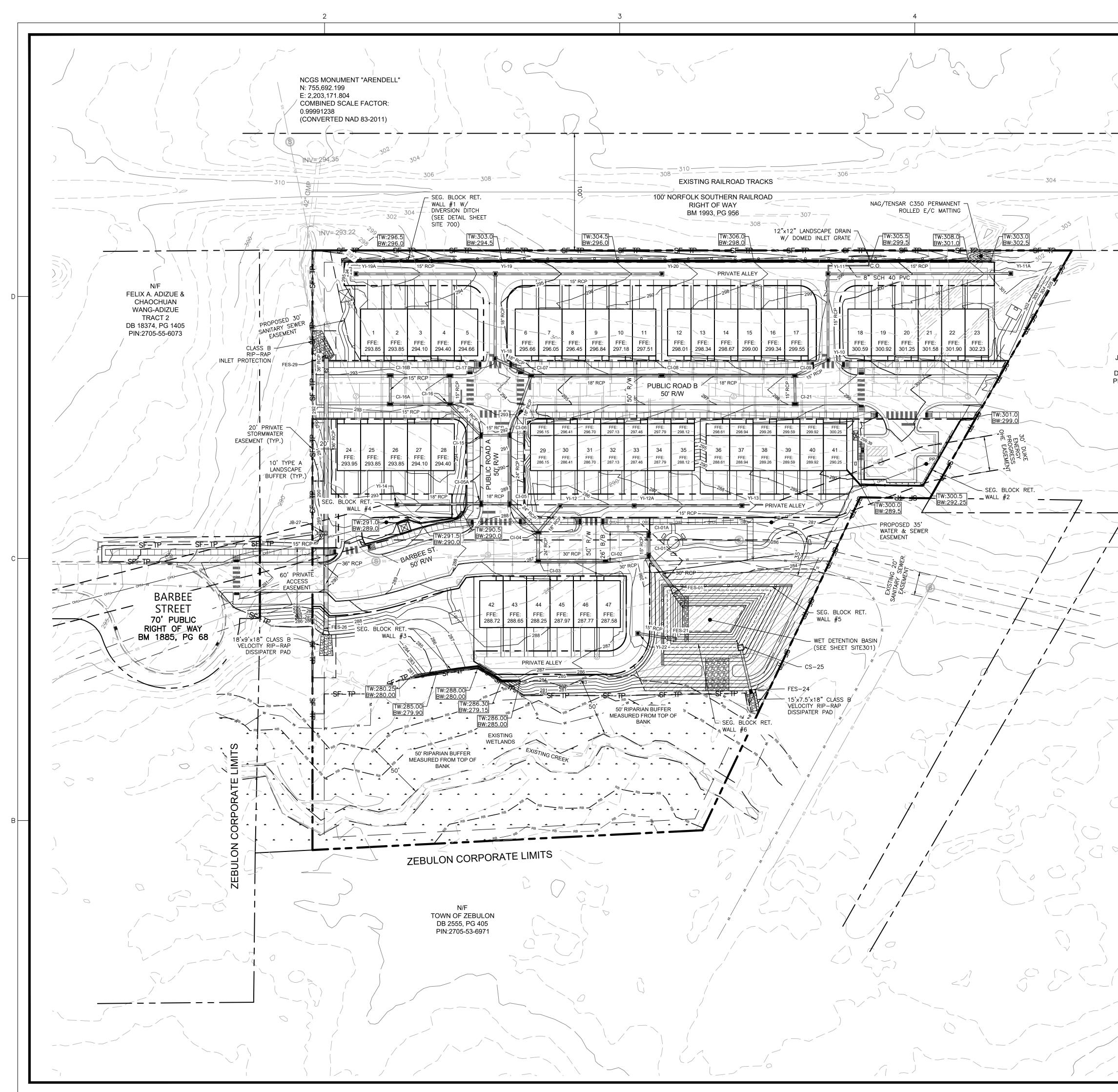
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GROUP LLC 9107, PG 564 2705-65-0231	DB 1857, PG 507 PIN: 2705-64-5192
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BOUNDARY & TOPOGRAPHIC SURVEY OF:	SURVEYOR: ANGLE RIGHT LAND SURVEYING
0 E. BARBEE STREET	
	DATE OF SURVEY: 6-1-22, 9-12-22
LITTLE RIVER TOWNSHIP, TOWN OF ZEBULON, WAKE COUNTY, NC OWNERS: MERIDIAN PROPERTIES GROUP LLC	JOB NUMBER
	22_195 PAGE 1 OF 1



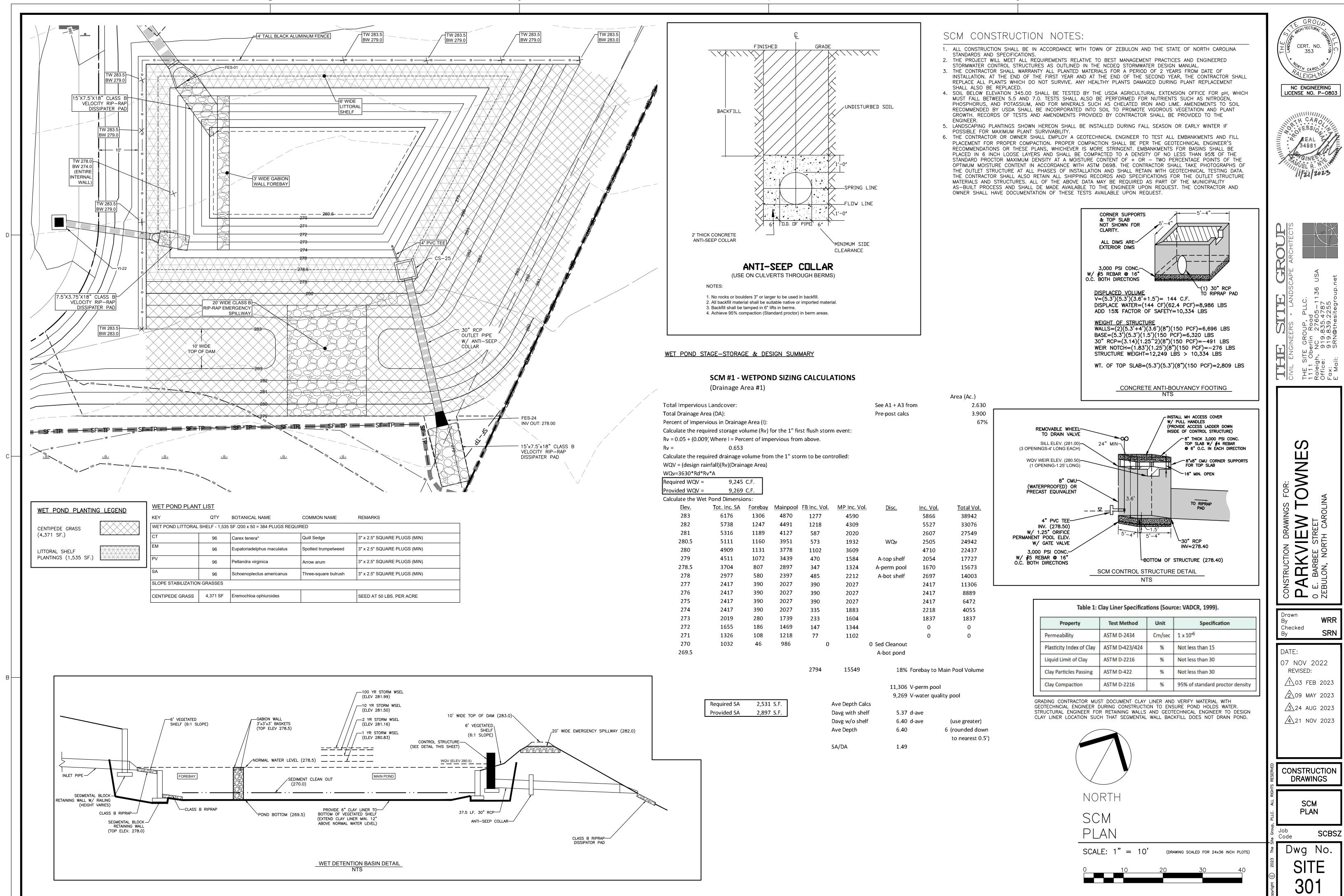


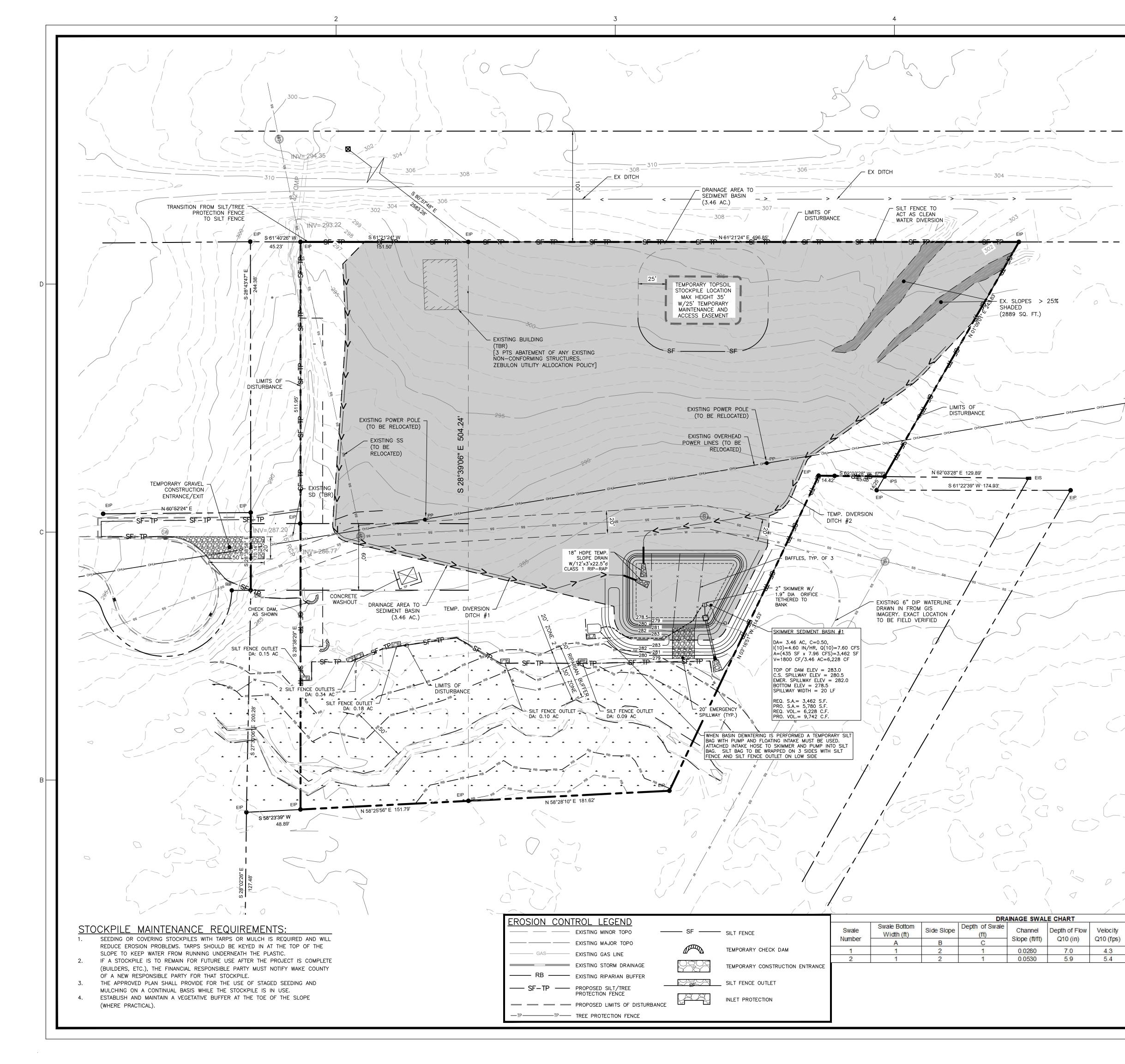






,	GRADING NOTES:	TE GROUD
	1. ALL CONSTRUCTION SHALL COMPLY WITH TOWN OF ZEBULON AND WAKE COUNTY STANDARDS AND SPECIFICATIONS.	S & POCHIES OTAL OBSORT
	2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING, COORDINATING, AND PAYMENT FOR ALL NECESSARY LOCATING SERVICES INCLUDING INDEPENDENT LOCATING SERVICES. THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES LOCATED AT LEAST 48 HOURS PRIOR TO BEGINNING DEMOLITION, EXCAVATION, OR ANY OTHER FORM OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES OR CONFLICTS.	HOPTH CAROLING PALEIGH, N.C.
	 EXISTING IMPROVEMENTS DAMAGED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED OR REPLACED TO ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE. 	NC ENGINEERING LICENSE NO. P-0803
	4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL PERMITS, INSPECTIONS, CERTIFICATIONS, AND OTHER REQUIREMENTS WHICH MUST BE MET UNDER THIS CONTRACT ARE OBTAINED.	NUMTH CARO
	5. IF DEPARTURES FROM THE PROJECT DRAWINGS OR SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREFORE SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW PRIOR TO CONSTRUCTION. NO DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE OWNER'S REPRESENTATIVE.	O OFESSION A BEAL
	6. THE ENGINEER DISCLAIMS ANY ROLE IN THE CONSTRUCTION MEANS AND/OR METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.	11/21/2023
	 7. TO MINIMIZE DAMAGE TO EXISTING TREES NEAR THE INTERIOR EDGE OF BUFFERS AND STREETSCAPES, THE CONTRACTOR SHALL CUT MIN. 2' TRENCHES ALONG THE LIMITS OF DISTURBANCE, SO AS TO CUT, RATHER THAN TEAR, THE TREE ROOTS. THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL THE SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION PRIOR TO CERTIFICATE OF OCCUPANCY(CO) IS SCHEDULED. THE FENCING SHALL BE REMOVED PRIOR TO FINAL SITE INSPECTION FOR THE CO. 	
\mathcal{C}	8. ALL STORM DRAIN FRAMES GRATES & HOODS SHALL BE STAMPED WITH "DRAINS TO RIVER" IN ACCORDANCE WITH TOWN OF ZEBULON STANDARDS.	
	9. ALL RISER STRUCTURES AND BARRELS MUST BE ON SITE BEFORE THE GRADING PERMIT IS ISSUED.	
	10. THIS PROJECT WILL REQUIRE A PRE-CONSTRUCTION CONFERENCE BEFORE THE GRADING PERMIT IS ISSUED.	ARO ARO
N/F OSEPH WOOD TEMPLE B 1857, PG 507	11. ALL CUT AND FILL SLOPE THAT IS (2:1) OR GREATER SHALL BE STABILIZED WITH PERMANENT SLOPE RETENTION DEVICES OR A SUITABLE COMBINATION OF PLANTINGS AND RETENTION DEVICES. SLOPES GREATER THAN THREE TO ONE (3:1) SHALL NOT BE STABILIZED WITH TURF GRASS BUT MUST BE STABILIZED WITH VEGETATION THAT REQUIRES MINIMAL MAINTENANCE. WEEPING LOVE GRASS, RED FESCUE OR OTHER APPROVED VARIETY.	ANDSCAPE C. T136 USA roup.net
IN:2705-64-5192	12. THE ESTABLISHMENT OF PERMANENT GROUND COVER WILL BE ESTABLISHED IN 15 WORKING DAYS OR 90 CALENDAR DAYS, WHICH EVER IS SHORTER. THE SITE SHALL BE STABILIZED AND SEEDED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY (CO).	PLLC BD5-1 505-1 .4787 .2255 ssitegr
5	13. THE TREE PROTECTION FENCING ON THIS PROJECT WILL BE INSTALLED AND INSPECTED BEFORE THE GRADING PERMIT IS ISSUED. THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION IS SCHEDULED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY (CO). THE FENCING SHALL BE REMOVED IMMEDIATELY PRIOR TO THE FINAL SITE INSPECTION FOR THE SITE.	VGINEERS VGINEERS berlin Rod 919.835 919.835 919.835
	14. THE PROJECT WILL MEET ALL OF THE REQUIREMENTS RELATIVE TO BEST MANAGEMENT PRACTICES AND ENGINEERED STORMWATER CONTROL STRUCTURES AS OUTLINED IN THE TOWN OF ZEBULON UNIFIED DEVELOPMENT ORDINANCE.	Mail:
	-15. NO TIEBACKS FOR RETAINING WALLS WILL BE ALLOWED TO ENCROACH INTO THE CITY OF RALEIGH PUBLIC UTILITY EASEMENT.	
	16. RETAINING WALLS WILL REQUIRE A SEPARATE PERMIT FROM THE TOWN OF ZEBULON INSPECTIONS AND PERMITS DEPARTMENT.	
7	17. THE SITE SHALL BE STABILIZED AND SEEDED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY. (CO)	
	18. CURB INLET RIM ELEVATIONS REFER TO FLOW LINE. ADD 6" FOR TOP OF CURB ELEVATION.	
	IN ACCORDANCE WITH TOWN OF ZEBULON STANDARDS. 20. RISER STRUCTURES AND BARRELS MUST BE ON SITE BEFORE THE GRADING PERMIT IS ISSUED.	U S Ц
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	NORTH	
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	SCALE: $1'' = 40'$ (drawing scaled for 24x36 inch plots)	₽ Dwg No.
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		© 300





EROSION CONTROL NOTES

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- 10. TREE PROTECTION FENCING SHALL NOT BE MOVED AND THERE SHALL BE NO ENCROACHMENT INTO SUCH PROTECTED AREA(S) WITHOUT WRITTEN AUTHORIZATION OF THE TOWN'S ZONING COMPLIANCE STAFF. ANY ACTIVITY (LANDSCAPING, FENCING, OR UTILITY INSTALLATION) SHOWN ON THE APPROVED PLANS IN A TREE PROTECTION AREA, SHALL ALSO NOT OCCUR WITHOUT WRITTEN AUTHORIZATION FROM THE TOWN'S ZONING COMPLIANCE STAFF. ANY UNAUTHORIZED ENCROACHMENT OR DISTURBANCE WITHIN THE BOUNDARIES OF A TREE PROTECTION AREA SHALL AUTOMATICALLY RESULT IN FINES AND THE REPLACEMENT OF ANY DAMAGED VEGETATION IN ACCORDANCE WITH THE LAND DEVELOPMENT ORDINANCE.

CONSTRUCTION SEQUENCE (PHASE 1):

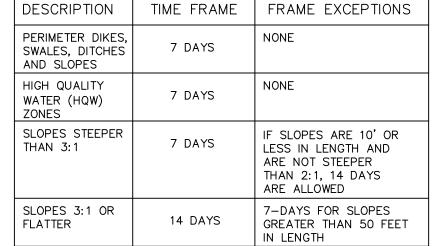
OBTAIN A LAND DISTURBING PERMIT PRIOR TO BEGINNING CONSTRUCTION, CALL THE STORMWATER INSPECTOR TO

- SCHEDULE AN ON-SITE PRECONSTRUCTION MEETING. CLEAR ONLY AS NECESSARY TO INSTALL ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE INITIAL EROSION CONTROL PLAN (PHASE I):
 - A. INSTALL CONSTRUCTION ENTRANCE. B. INSTALL SILT FENCING AND SILT FENCE OUTLETS.
 - C. INSTALL DIVERSION DITCHES.
- D. INSTALL SEDIMENT SKIMMER BASIN. MAINTAIN EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS
- ESTABLISHED. STABILIZATION IS REQUIRED WITHIN 14 CALENDAR DAYS OF COMPLETION OF ANY
- PHASE OF GRADING OR INACTIVITY ON PROJECT SITE. SCHEDULE A SITE INSPECTION THROUGH WAKE COUNTY.
- UPON APPROVAL OF THE STORMWATER SITE INSPECTION, DEMOLISH EXISTING STRUCTURES AS DETAILED ON EXISTING CONDITION AND DEMOLITION PLAN. PROCEED TO PHASE 2 OF THE EROSION CONTROL SEQUENCE. SEE SITE 302A

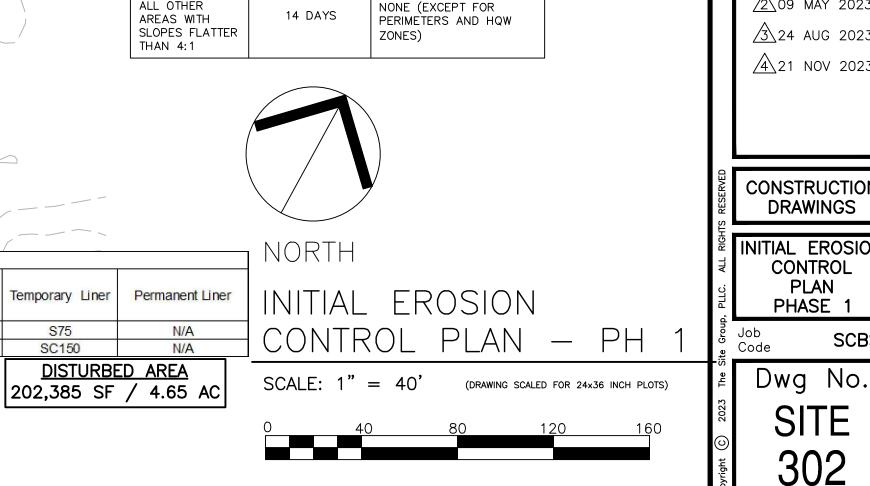
REQUIRED WAKE COUNTY CONSTRUCTION SEQUENCE

- SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE WAKE COUNTY ENVIRONMENTAL CONSULTANT. OBTAIN A LAND DISTURBING PERMIT.
- INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
- 3. CALL ENVIRONMENTAL CONSULTANT FOR AN ONSITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT TO OBTAIN A CERTIFICATE OF COMPLIANCE
- 4. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE. INSTALL STORM SEWER, IF SHOWN, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN.
- BEGIN CONSTRUCTION, BUILDING, ETC. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, 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 TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE
- ENVIRONMENTAL CONSULTANT. OBTAIN A CERTIFICATE OF COMPLETION.
- NPDES GROUND STABILIZATION

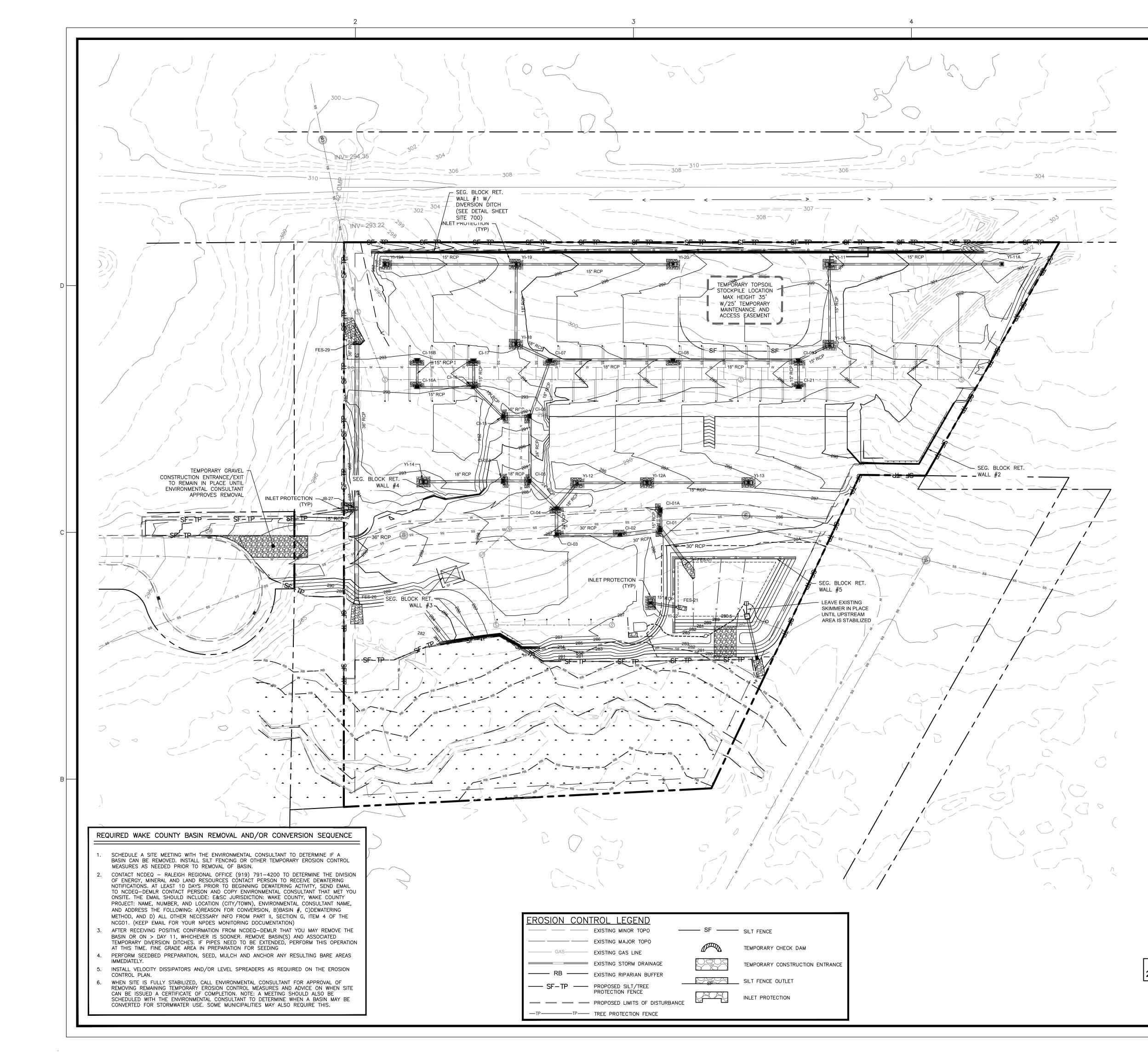
SITE AREA STABILIZATION STABILIZATION TIME



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THE SITE GROUP, PLLC.CIVIL ENGINEERS • LANDSCAPE ARCHITECTSCIVIL ENGINEERS • LANDSCAPE ARCHITECTSTHE SITE GROUP, PLLC.THE SITE GROUP.THE SITE GROUP.T
construction drawings for: PARKVIEW TOWNES 0 E. Barbee street 2EBULON, NORTH CAROLINA
Drawn By WRR Checked By SRN
DATE: 07 NOV 2022 REVISED: 103 FEB 2023 209 MAY 2023 324 AUG 2023 421 NOV 2023
CONSTRUCTION DRAWINGS
TH CONTROL PLAN PHASE 1 Job Code SCBSZ



EROSION CONTROL NOTES

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CONSTRUCTION SEQUENCE (PHASE 2):

- CONTINUED FROM SITE 302 COMMENCE PERMITTED LAND DISTURBING ACTIVITY.
- PROCEED WITH CLEARING, GRUBBING AND GRADING. ADJUST TEMPORARY DIVERSIONS AS REQUIRED.
- MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN GOOD WORKING ORDER. SILT FENCE, INLET PROTECTION AND OTHER SIMILAR MEASURES MUST BE CLEANED OUT BEFORE THEY ARE HALF FULL. CLOGGED STONE FILTERS MUST BE REFRESHED/REPLACED. SILT FENCE CAN NOT HAVE HOLES OR TEARS.
- INSTALL ALL UTILITIES, STORMWATER PIPES, INLETS, ROAD BEDS, CURB AND GUTTER AND RETAINING WALLS #1-#5. SEE PHASE 3 FOR RETAINING WALL #6INSTALLATION.
- STABILIZATION IS REQUIRED WITHIN 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING OR INACTIVITY ON PROJECT SITE.
- SUBMIT DOCUMENTATION REQUIRED UNDER THE SITE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY (NCG010000) TO STORMWATER INSPECTIONS THROUGHOUT THE PROJECT.
- SCHEDULE A SITE INSPECTION THROUGH WAKE COUNTY. UPON APPROVAL OF THE STORMWATER SITE INSPECTION, PROCEED TO PHASE 3 OF THE EROSION CONTROL SEQUENCE. SEE SITE 303.

NPDES GROUND STABILIZATION

SITE AREA DESCRIPTION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED
SLOPES 3:1 OR FLATTER	14 DAYS	7–DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETERS AND HQW ZONES)

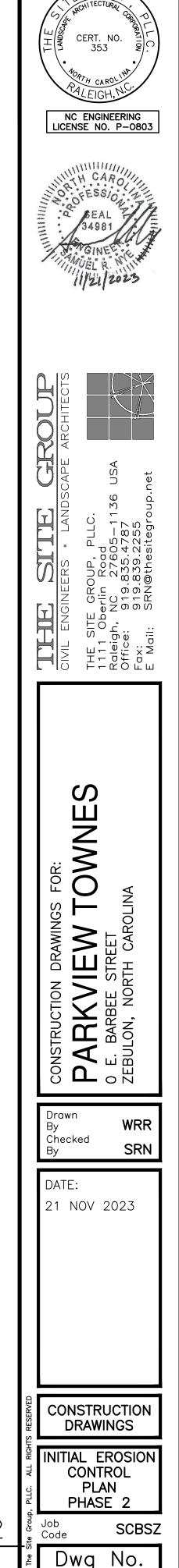


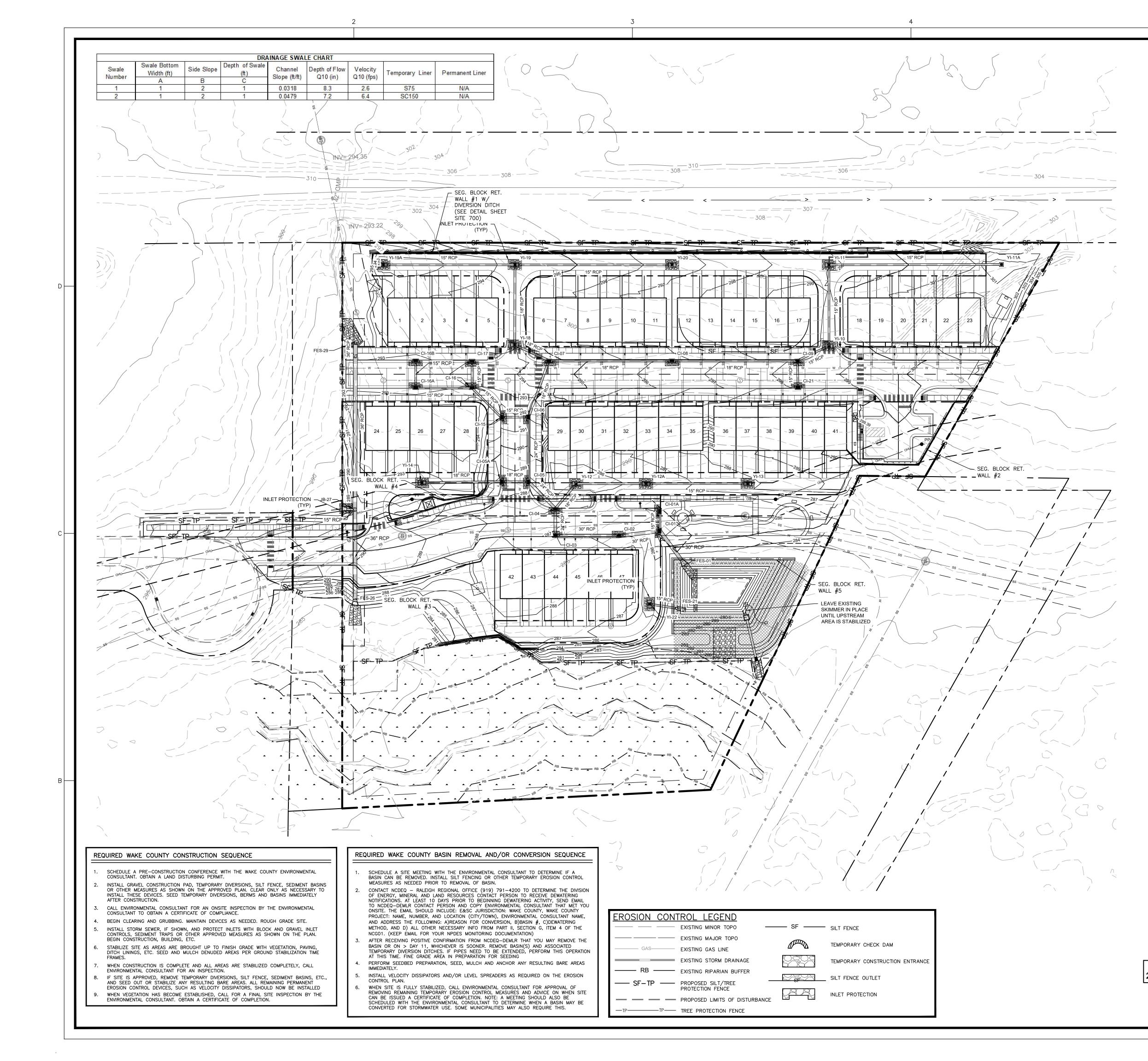
(DRAWING SCALED FOR 24x36 INCH PLOTS)

SCALE: 1'' = 40'

DISTURBED AREA 202,385 SF / 4.65 AC

	construction drawings PARKVIEW T 0 E. Barbee street ZEBULON, NORTH CAROLIN
	Drawn By WRR Checked By SRN
	DATE: 21 NOV 2023
ALL RIGHTS RESERVED	CONSTRUCTION DRAWINGS
PLLC. ALL RIGH	INITIAL EROSION CONTROL PLAN
Site Group, Pl	PHASE 2Job CodeSCBSZ
2023 The Si	Dwg No.
	SITE
Copyright ©	302A





EROSION CONTROL NOTES

- 1. ALL CONSTRUCTION SHALL COMPLY WITH TOWN OF ZEBULON STANDARDS AND SPECIFICATIONS.
- 2. EXISTING CONDITION INFORMATION SHOWN IS TAKEN FROM A SURVEY BY ANGLE RIGHT LAND SURVEYING, PLLC DATED JUNE 1, 2022.

CERT. NO.

353

NC ENGINEERING LICENSE NO. P-0803

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Checked

DATE:

07 NOV 2022 REVISED:

<u>/1</u>03 FEB 2023

<u>/2</u>09 MAY 2023

<u>/3</u>24 AUG 2023

<u>/4</u>21 NOV 2023

CONSTRUCTION

DRAWINGS

EROSION

CONTROL

PLAN

Dwg No.

SITE

303

SCBSZ

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- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING, COORDINATING, AND PAYMENT FOR ALL NECESSARY LOCATING SERVICES INCLUDING INDEPENDENT LOCATING SERVICES. THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES LOCATED AT LEAST 48 HOURS PRIOR TO BEGINNING DEMOLITION, EXCAVATION, OR ANY OTHER FORM OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OR ANY DISCREPANCIES OR CONFLICTS.
- 4. EXISTING IMPROVEMENTS DAMAGED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED OR REPLACED TO ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL PERMITS, INSPECTIONS, CERTIFICATIONS, AND OTHER REQUIREMENTS WHICH MUST BE MET UNDER THIS CONTRACT ARE OBTAINED.
- IF DEPARTURES FROM THE PROJECT DRAWINGS OR SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREFORE SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW PRIOR TO CONSTRUCTION. NO DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE OWNER'S REPRESENTATIVE.
- 7. THE ENGINEER DISCLAIMS ANY ROLE IN THE CONSTRUCTION MEANS AND/OR METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
- 8. THE STREETS IN FRONT OF THE PROJECT WILL BE KEPT CLEAN AT ALL TIMES OR A WASH STATION WILL BE REQUIRED.
- 9. THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION IS SCHEDULED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY (CO). THE FENCING SHALL BE REMOVED IMMEDIATELY PRIOR TO THE FINAL SITE INSPECTION FOR THE SITE.
- 10. TREE PROTECTION FENCING SHALL NOT BE MOVED AND THERE SHALL BE NO ENCROACHMENT INTO SUCH PROTECTED AREA(S) WITHOUT WRITTEN AUTHORIZATION OF THE TOWN'S ZONING COMPLIANCE STAFF. ANY ACTIVITY (LANDSCAPING, FENCING, OR UTILITY INSTALLATION) SHOWN ON THE APPROVED PLANS IN A TREE PROTECTION AREA. SHALL ALSO NOT OCCUR WITHOUT WRITTEN AUTHORIZATION FROM THE TOWN'S ZONING COMPLIANCE STAFF. ANY UNAUTHORIZED ENCROACHMENT OR DISTURBANCE WITHIN THE BOUNDARIES OF A TREE PROTECTION AREA SHALL AUTOMATICALLY RESULT IN FINES AND THE REPLACEMENT OF ANY DAMAGED VEGETATION IN ACCORDANCE WITH THE LAND DEVELOPMENT ORDINANCE.

CONSTRUCTION SEQUENCE (PHASE 3):

- CONTINUED FROM SITE 302A INSTALL RESIDENTIAL CONSTRUCTION ENTRANCES AT EACH BUILDING.
- INSTALL SILT FENCE WITH SILT FENCE OUTLETS AROUND EACH BUILDING. PROTECT ALL INLETS AS INSTALLED.
- MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN GOOD WORKING ORDER. SILT FENCE, INLET PROTECTION AND OTHER SIMILAR MEASURES MUST BE CLEANED OUT BEFORE THEY ARE HALF FULL. CLOGGED STONE FILTERS MUST BE REFRESHED/REPLACED. SILT FENCE CAN NOT HAVE HOLES OR TEARS. WHEN AREA TRIBUTARY TO SEDIMENT BASIN #1 HAS BEEN STABILIZED, CONVERT
- SEDIMENT BASIN #1 TO FINAL CONFIGURATION. DEWATER BASIN AND REMOVE ACCUMULATED SEDIMENT. UTILIZE SILT BAG 5.1. FOR DEWATERING.
- INSTALL INTERIOR RETAINING WALL. 5.2. 5.3. REMOVE TEMPORARY SLOPE DRAIN AND INSTALL FES #1, FES#21 & RIP-RAP DISSIPATER PAD
- SET GRADES TO FINAL ELEVATIONS. 5.4.
- REMOVE SKIMMER AND SET OUTLET STRUCTURE WEIRS/ORIFICES TO FINAL 5.5. CONFIGURATION. CALL SAM NYE AT 919-835-4787 FOR SITE INSPECTION A MINIMUM TWO WEEKS
- PRIOR TO REQUESTING TOWN FINAL INSPECTION. ONCE APPROVED, SURVEY EXISTING SCM TOPO AND STRUCTURE ELEVATIONS.
- AS-BUILTS MUST BE COMPLETED AND SUBMITTED ONE WEEK PRIOR TO FINAL 8. INSPECTION. STABILIZATION IS REQUIRED WITHIN 14 CALENDAR DAYS OF COMPLETION OF ANY
- PHASE OF GRADING OR INACTIVITY ON PROJECT SITE. SCHEDULE THE FINAL SITE INSPECTION THROUGH WAKE COUNTY.
- SUBMIT DOCUMENTATION REQUIRED UNDER THE SITE NPDES STORMWATER PERMIT 11. FOR CONSTRUCTION ACTIVITY (NCG010000) TO STORMWATER INSPECTIONS THROUGHOUT THE PROJECT

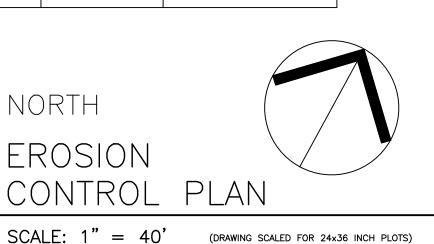
NPDES GROUND STABILIZATION SITE AREA STABILIZATION STABILIZATION TIME

DESCRIPTION	TIME FRAME	FRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED
SLOPES 3:1 OR FLATTER	14 DAYS	7-DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETERS AND HQW ZONES)

NORTH

EROSION

SCALE: 1'' = 40'



DISTURBED AREA 202,385 SF / 4.65 AC

					NDLING PRACTICES FOR COMPLIANCE
	Imple	lementing th	ne details a		this plan sheet will result in the construction of the construction and Materials Hand
	section	tions of the N mittee shall o	NCG01 Cons comply with	struction General Pe h the Erosion and Se	rmit (Sections E and F, respectively). T diment Control plan approved by the
					ils and specifications shown on this sh d the delegated authority having jurisd
	SECT	TION E: GRO			ilization Timeframes
		iite Area Des		Stabilize within this many calendar	
				days after ceasing land disturbance	
	(a)) Perimeter swales, di perimeter	tches, and	7	None
	(b)) High Quali (HQW) Zo		7	None
	(c)	Slopes ste 3:1	eper than	7	If slopes are 10' or less in length and not steeper than 2:1, 14 days are
					allowed -7 days for slopes greater than 50' in
	(d)	Slopes 3:1	to 4:1	14	length and with slopes steeper than -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW
					Zones -10 days for Falls Lake Watershed
	(e)	Areas with	slopes		-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW 2
		flatter tha		14	-10 days for Falls Lake Watershed un there is zero slope
	grou	und stabiliza	tion shall b	e converted to perm	action activities, any areas with tempor anent ground stabilization as soon as dar days after the last land disturbing
	activ	vity. Tempo	rary ground	d stabilization shall b	e maintained in a manner to render th permanent ground stabilization is ach
	Stabl	oilize the gro	und sufficie		not dislodge the soil. Use one of the
			porary Stabi	lization	Permanent Stabilization
	o	Temporary gra other mulches Hydroseeding	and tackifier	rs	Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil
	● R w	Rolled erosion without tempo	control proc prary grass se	lucts with or ed •	reinforcement matting Hydroseeding
		Appropriately Plastic sheetin		•	Shrubs or other permanent plantings covere with mulch Uniform and evenly distributed ground cove
				•	sufficient to restrain erosion Structural methods such as concrete, asphal retaining walls
				•	Rolled erosion control products with grass se
		Select floo	culants that		r the soils being exposed during
		Apply floo	culants at o	or before the inlets t	List of Approved PAMS/Flocculants. o Erosion and Sediment Control Measu pecified in the NC DWR List of Approve
		PAMS/Flo	cculants ar	d in accordance wit	h the manufacturer's instructions. treated Stormwater before dischargin
	5.				s that are kept under storm-resistant co
				condary containmen	
с—				N	CG01 GROUN
			SELF-INSP	PART I	I EPING AND REPORTING
	SECTION	ION A: SELF-			
	below	v. When adv	erse weath	ner or site conditions	ness hours in accordance with the tabl s would cause the safety of the inspect
	which	h it is safe to	perform th	ne inspection. In add	be delayed until the next business day lition, when a storm event of equal to usiness hours, the self-inspection shall
	perfor	rmed upon t	the comme		business day. Any time when inspect
	Inspe	vect	Frequency (during norm business hou		ds must include:
	main good	ntained in d working	Daily	holiday periods,	auge observations are made during weekend o and no individual-day rainfall information i
	order	er		attended days (needed). Days o	the cumulative rain measurement for those ur and this will determine if a site inspection i n which no rainfall occurred shall be recorded a
	(2) E		At least once	approved by the per 1. Identification	of the measures inspected,
	Meas		7 calendar da and within 24 hours of a rain	3. Name of the p 4. Indication of v	: of the inspection, verson performing the inspection, vhether the measures were operating
			event ≥ 1.0 in 24 hours At least once	 Description of Description, e 	maintenance needs for the measure, vidence, and date of corrective actions taken. of the discharge outfalls inspected,
	disch	harge falls (SDOs)	At least once 7 calendar da and within 24 hours of a rai	ys 2. Date and time 3. Name of the p	of the discharge outfalls inspected, : of the inspection, :erson performing the inspection, dicators of stormwater pollution such as oil
			event ≥ 1.0 in 24 hours	ch in sheen, floating 5. Indication of v	g or suspended solids or discoloration, isible sediment leaving the site, vidence, and date of corrective actions taken.
	(4) Pe site		At least once 7 calendar da and within 24	per If visible sedimen ys of the following s	tation is found outside site limits, then a record
			hours of a rain event ≥ 1.0 in 24 hours	n the site limits, ch in 2. Description, e 3. An explanatio	•
в	wetla	Streams or lands onsite	At least once 7 calendar da	releases. per If the stream or v ys stream has visible	vetland has increased visible sedimentation or a e increased turbidity from the construction
	or of (whe acces	ffsite ere essible)	and within 24 hours of a rain event \geq 1.0 in	activity, then a re n 1. Description, e ch in 2. Records of the	cord of the following shall be made: vidence and date of corrective actions taken, and e required reports to the appropriate Division
	stabi	Ground Dilization	24 hours After each ph of grading	ase 1. The phase of g measures, clea	e per Part III, Section C, Item (2)(a) of this permit. grading (installation of perimeter E&SC aring and grubbing, installation of storm
	meas	isures		activity, const ground cover)	
				measures hav	In that the required ground stabilization e been provided within the required an assurance that they will be provided as
	NOT	TE: The rain	inspection		7 calendar day inspection requirement
					PA
		ient hasing -	nd trans +-	at receive rupoff fr-	DRAW DOWN OF SEDIM
	for ma	aintenance o	or close out	unless this is infeasi	m drainage areas of one acre or more ble. The circumstances in which it is n hall be allowed only when all of the fol
	(a)	The E&SC p	lan authori	ty has been provide	d with documentation of the non-surfa
	(b)	The non-su	rface withd	rawal has been repo	ithority has approved these items, orted as an anticipated bypass in accor-
		properly sit	ed, designe	ed and maintained d	ntrols to minimize discharges of pollut ewatering tanks, weir tanks, and filtrat roperly designed stone pad is used to t
	(e)	Velocity dis	sipation de	vices such as check	dams, sediment traps, and riprap are p eatment devices described in Item (c)
			10		
				Ν	ICG01 SELF-IN

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					I
on this on this Grour Permi Sedim letails	ING PRACTICES FOR COMPLIANCE WITH s plan sheet will result in the construction nd Stabilization and Materials Handling t (Sections E and F, respectively). The nent Control plan approved by the and specifications shown on this sheet the delegated authority having jurisdiction.	project.4. Collect all spent fluids, store in sepa hazardous waste (recycle when post	prevent discharge of fluids. equipment. feasible, or remove leaking equipment from the rate containers and properly dispose as sible).	ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER UNDERGED (YP) SETFICIE SETFIC SETFICIE SETFIC SETFIC SETFIC SETFIC SETFIC S	
		has been corrected.	uction equipment from service until the problem s, hydraulic fluids and other petroleum products	CARATY WARED SIGNADE NOTING DEVICE (1873X*MIN) T. ACTUAL LOCATION DETERMINED IN FIEL D. THE CONCRETE WASHOUT STRUCTURES SHULL BE MARTANED WENT THE LOUD ANDOR SOLD REACHES 77H OF THE STRUCTURES CARATY.	
tabiliza this	ation Timeframes	to a recycling or disposal center that		PLAN 1.CONCRETE WASHOUT STRUCTURE REEDS TO BE PLAN 1.CONCRETE WASHOUT STRUCTURE REEDS TO BE CLEAVY MARED WITH SIGNAGE NOTING DEVICE.	
ng e	Timeframe variations	LITTER, BUILDING MATERIAL AND LAND CI 1. Never bury or burn waste. Place litte	LEARING WASTE er and debris in approved waste containers.	BELOW GRADE WASHOUT STRUCTURE ABOVE GRADE WASHOUT STRUCTURE	
	None	receptacle) on site to contain constru 3. Locate waste containers at least 50 fe	eet away from storm drain inlets and surface	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	
n	None slopes are 10' or less in length and are ot steeper than 2:1, 14 days are	from upland areas and does not drain 5. Cover waste containers at the end of	to reasonably available. at do not receive substantial amounts of runoff in directly to a storm drain, stream or wetland. Feach workday and before storm events or pair or replace damaged waste containers.	 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. 	
-7 le -7 d Z	Ilowed 7 days for slopes greater than 50' in ength and with slopes steeper than 4:1 7 days for perimeter dikes, swales, itches, perimeter slopes and HQW ones 10 days for Falls Lake Watershed	 Anchor all lightweight items in waste Empty waste containers as needed to containers overflow. Dispose waste off-site at an approved 	e containers during times of high winds. o prevent overflow. Clean up immediately if	 Install temporary concrete washouts per local requirements, where applicable. If a 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. 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 mu 	
-7 di -1 tł	7 days for perimeter dikes, swales, itches, perimeter slopes and HQW Zones 10 days for Falls Lake Watershed unless here is zero slope on activities, any areas with temporary ent ground stabilization as soon as	 Locate paint washouts at least 50 fea waters unless no other alternatives a Contain liquid wastes in a controlled 		 be pumped out and removed from project. 6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless 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 	
endar all be m	days after the last land disturbing naintained in a manner to render the rmanent ground stabilization is achieved.	 Prevent the discharge of soaps, solve construction sites. 	d, at least 50 feet away from storm drains,	 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 	
 Period Other Geo rein 	Permanent Stabilization Manent grass seed covered with straw or er mulches and tackifiers otextile fabrics such as permanent soil aforcement matting	 streams or wetlands unless there is r offset is not attainable, provide reloc on a gravel pad and surround with sa Provide staking or anchoring of porta foot traffic areas. Monitor portable toilets for leaking a Utilize a licensed sanitary waste haul 	no alternative reasonably available. If 50 foot cation of portable toilet behind silt fence or place	 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. 	
 Shruwiti Uni suff Strureta 	Iroseeding ubs or other permanent plantings covered h mulch form and evenly distributed ground cover icient to restrain erosion uctural methods such as concrete, asphalt or aining walls led erosion control products with grass seed	50 feet away from storm drain inlets and surface waters unless it can be s available.	ocate earthen-material stockpile areas at least s, sediment basins, perimeter sediment controls shown no other alternatives are reasonably	 HERBICIDES, PESTICIDES AND RODENTICIDES Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions. 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. Do not store herbicides, pesticides and rodenticides in areas where flooding is 	
WR Lis	ne soils being exposed during t of Approved PAMS/Flocculants. rosion and Sediment Control Measures.	five feet from the toe of stockpile.3. Provide stable stone access point wh4. Stabilize stockpile within the timefra	alled along toe of slope with a minimum offset of nen feasible. Imes provided on this sheet and in accordance itional requirements. Soil stabilization is defined	possible or where they may spill or leak into wells, stormwater drains, ground wate or surface water. If a spill occurs, clean area immediately.4. Do not stockpile these materials onsite.	
ns spec with th t of tre	ified in the NC DWR List of Approved he manufacturer's instructions. ated Stormwater before discharging		overage techniques that will restrain accelerated	 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 	1.
nent st	at are kept under storm-resistant cover ructures.				_
NC	CG01 GROUND S	TABILIZATION A	ND MATERIALS H	ANDLING EFFECTIVE: 04/01/	1
RT III DKEEPI	NG AND REPORTING		ART III RDKEEPING AND REPORTING	PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING	
ions wo iay be o additic al busir	s hours in accordance with the table ould cause the safety of the inspection delayed until the next business day on on, when a storm event of equal to or ness hours, the self-inspection shall be siness day. Any time when inspections d.			 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, 	
amounts ain gauge ods, and cord the ys (and	ust include: s. e observations are made during weekend or d no individual-day rainfall information is cumulative rain measurement for those un- this will determine if a site inspection is hich no rainfall occurred shall be recorded as	and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	nitial 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.	 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 31 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCL 	
the Divis tion of th time of t the perso	ne measures inspected, he inspection, on performing the inspection,	l l l l l l l l l l l l l l l l l l l	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.	(Ref: 40 CFR 302.4) or G.S. 143-215.85.(d) Anticipated bypasses and unanticipated bypasses.	
n of mai n, evide ion of th	her the measures were operating intenance needs for the measure, nce, and date of corrective actions taken. he discharge outfalls inspected, he inspection	in accordance with the approved E&SC plan.	nitial 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.	(e) Noncompliance with the conditions of this permit that may endanger health or the environment.	
he perso of indica ating or of visibl	he inspection, n performing the inspection, tors of stormwater pollution such as oil suspended solids or discoloration, e sediment leaving the site, nce, and date of corrective actions taken.	requirements for all E&SC measures have been performed. (e) Corrective actions have been taken	Complete, date and sign an inspection report. Initial and date a copy of the approved E&SC	2. Reporting Timeframes and Other Requirements After a permittee becomes aware of an occurrence that must be reported, he shall conta the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also b	ì
mentation ing shall	be made: lean up or stabilize the sediment that has left	to E&SC measures.	plan or complete, date and sign an inspection report to indicate the completion of the corrective action.	reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.	
on, evide ation as or wetla sible inc	nce, and date of corrective actions taken, and to the actions taken to control future and has increased visible sedimentation or a reased turbidity from the construction d of the following shall be made:	2. Additional Documentation to be Kept on Si In addition to the E&SC plan documents abc site and available for inspectors at all times Division provides a site-specific exemption b this requirement not practical:	ove, the following items shall be kept on the during normal business hours, unless the	Occurrence Reporting Timeframes (After Discovery) and Other Requirements (a) Visible sediment • Within 24 hours, an oral or electronic notification. deposition in a • 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 • Occurrence	_

vidence and date of corrective actions taken, and he required reports to the appropriate Division fice per Part III, Section C, Item (2)(a) of this permit. (a) This General Permit as well as the Certificate of Coverage, after it is received. rading (installation of perimeter E&SC (b) Records of inspections made during the previous twelve months. The permittee shall earing and grubbing, installation of storm lities, completion of all land-disturbing record the required observations on the Inspection Record Form provided by the truction or redevelopment, permanent 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 ion that the required ground stabilization ve been provided within the required shown to provide equal access and utility as the hard-copy records. r an assurance that they will be provided as 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 II, SECTION G, ITEM (4) DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

rom 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 isible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). shall be allowed only when all of the following criteria have been met:

ed with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal authority has approved these items,

ported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit, ontrols to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include

dewatering tanks, weir tanks, and filtration systems, roperly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above, dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and reatment 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

• 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

determine that additional requirements are needed to assure compliance

monitoring, inspections or apply more stringent practices if staff

Within 24 hours, an oral or electronic notification. The notification

• A report at least ten days before the date of the bypass, if possible.

• Within 7 calendar days, a report that includes an evaluation of the

noncompliance, and its causes; the period of noncompliance,

including exact dates and times, and if the noncompliance has not

continue; and steps taken or planned to reduce, eliminate, and

prevent reoccurrence of the noncompliance. [40 CFR 122.41(I)(6).

Division staff may waive the requirement for a written report on a

been corrected, the anticipated time noncompliance is expected to

The report shall include an evaluation of the anticipated quality and

shall include information about the date, time, nature, volume and

with the federal or state impaired-waters conditions.

• Within 24 hours, an oral or electronic notification.

• Within 24 hours, an oral or electronic notification.

with the conditions • Within 7 calendar days, a report that contains a description of the

location of the spill or release.

quality and effect of the bypass.

effect of the bypass.

case-by-case basis.

(b) Oil spills and

substances per Item

bypasses [40 CFR

(d) Unanticipated

bypasses [40 CFR

(e) Noncompliance

of this permit that

122.41(m)(3)]

may endanger

health or the

environment[40 CFR 122.41(l)(7)]

122.41(m)(3)]

1(b)-(c) above (c) Anticipated

release of

hazardous

NPDES GROUND STABILIZATION SCHEDULE

SITE AREA DESCRIPTION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS	AREAS ON THIS SITE
PERIMETER DIKES, SWALES, DITCHES AND	7 DAYS	NONE	TEMPORARY DIVERSION DITCHES
HOPFQUALITY WATER (HQW) ZONES	7 DAYS	NONE	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED	NONE
SLOPES 3:1 OR FLATTER	14 DAYS	7–DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH	REMAINDER OF PROJECT AREA
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETERS AND HQW ZONES)	INCLUDED W/ 3:1 OR FLATTER SLOPES

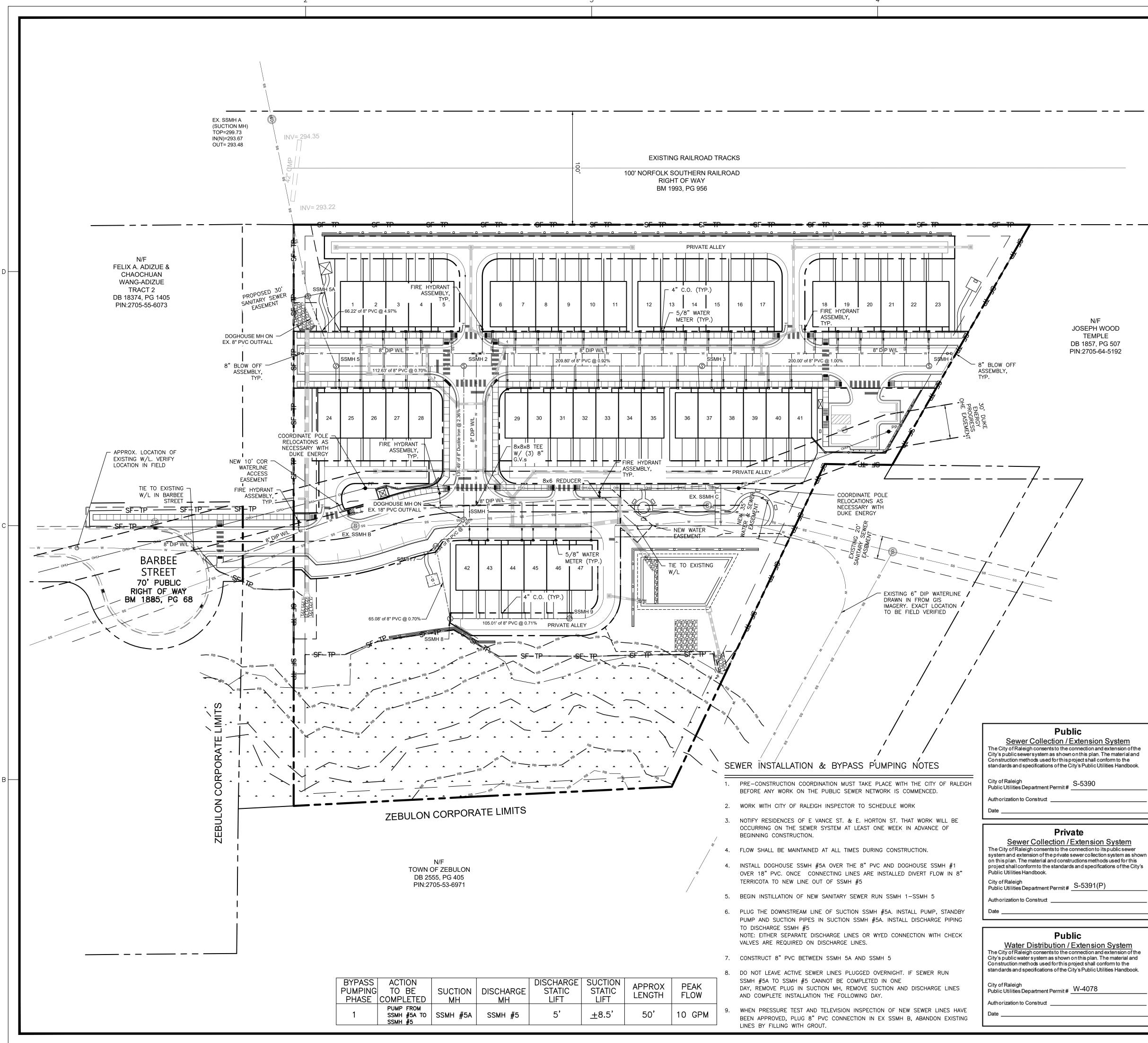
NPDES PLAN NOTES

1/19

1. THIS PAGE IS SUBMITTED TO COMPLY WITH NPDES GENERAL STORMWATER PERMIT NCG010000. 2. THIS PAGE CAN BE APPROVED BY THE CITY PURSUANT TO NPDES GENERAL STORMWATER PERMIT

NCG010000 ONLY. 3. THIS PAGE OF THE APPROVED PLANS IS ENFORCEABLE EXCLUSIVELY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000.

CERT. NO. 353 CERT. NO. 250 CERT. NO. 250 CE
THE SITE GROUP, PLLC. THE SITE GROUP, PLLC. THE SITE GROUP, PLLC. 1111 Oberlin Road Raleigh, NC 27605-1136 USA Office: 919.835.4787 Fax: 919.835.4787 Fax: 919.835.2555 E Mail: SRN@thesitegroup.net
CONSTRUCTION DRAWINGS FOR: CONSTRUCTION DRAWINGS FOR: DATE STREE DATE: DATE: DATE: DATE: DATE: DATE: DATE: DATE: DATE: DATE:
AT 03 FEB 2023 2 09 MAY 2023 CONSTRUCTION DRAWINGS NPDES
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. ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION)

2. UTILITY SEPARATION REQUIREMENTS:

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 SÁNITARY 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 RALEIGH PUBLIC UTILITIES

DEPARTMENT PRIOR TO CONSTRUCTION 4. DEVELOPER SHALL PROVIDE 30 DAYS ADVANCE WRITTEN NOTICE TO OWNER FOR ANY WORK REQUIRED WITHIN AN EXISTING CITY OF RALEIGH UTILITY EASEMENT TRAVERSING PRIVATE PROPERTY

5. 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 RALEIGH PUBLIC UTILITIES DEPARTMENT

6. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCE MAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS

7. 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 RALEIGH PUBLIC UTILITIES DEPARTMENT. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER CORPUD HANDBOOK PROCEDURE

8. INSTALL ¾" 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 9. INSTALL 4" PVC* SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS

LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM 10. 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 MANHOLE

11. ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDWQ, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION. 12. NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY

UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION

13. GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE CORPUD FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A BUILDING PERMIT. CONTACT TIM BEASLEY AT (919) 996-2334 OR TIMOTHY.BEASLEY@RALEIGHNC.GOV FOR MORE INFORMATION

14. 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

GENERAL NOTES

- 1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST TOWN OF ZEBULON, WAKE COUNTY AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
- CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (811) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.

CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.

BOUNDARY AND SURVEY INFORMATION IS TAKEN FROM A SURVEY BY ANGLE RIGHT LAND SURVEYING, PLLC DATED JUNE 1, 2022.

5. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.

NO PORTION OF THE PROPERTY IS LOCATED WITHIN A FEMA AE FLOOD ZONE BASED ON THE MAP #3720270500K MAP REVISED JULY 19, 2022.

7. THE ROAD CLASSIFICATIONS FOR THIS PROJECT CONSIST OF LOCAL AND ALLEY.



CERT. NO. HILL CAROLINA MORTH CAROLINA MORT
THE SITE GROUP, PLLC. ANDSCAPE ARCHITECTS THE SITE GROUP, PLLC. 1111 Oberlin Road THE SITE GROUP, PLLC. 1111 Oberlin Road Raleigh, NC 27605-1136 USA 919.835.4787 Office: 919.835.4787 Fax: 919.835.2255 E Mail: SRN@thesitegroup.net
construction drawings for: PARKVIEW TOWNES 0 E. Barbee street 2EBULON, NORTH CAROLINA
Drawn By WRR Checked By SRN
DATE: 07 NOV 2022 REVISED: 1 03 FEB 2023 2 09 MAY 2023 3 24 AUG 2023 4 21 NOV 2023
CONSTRUCTION DRAWINGS
UTILITY PLAN
Job Code SCBSZ

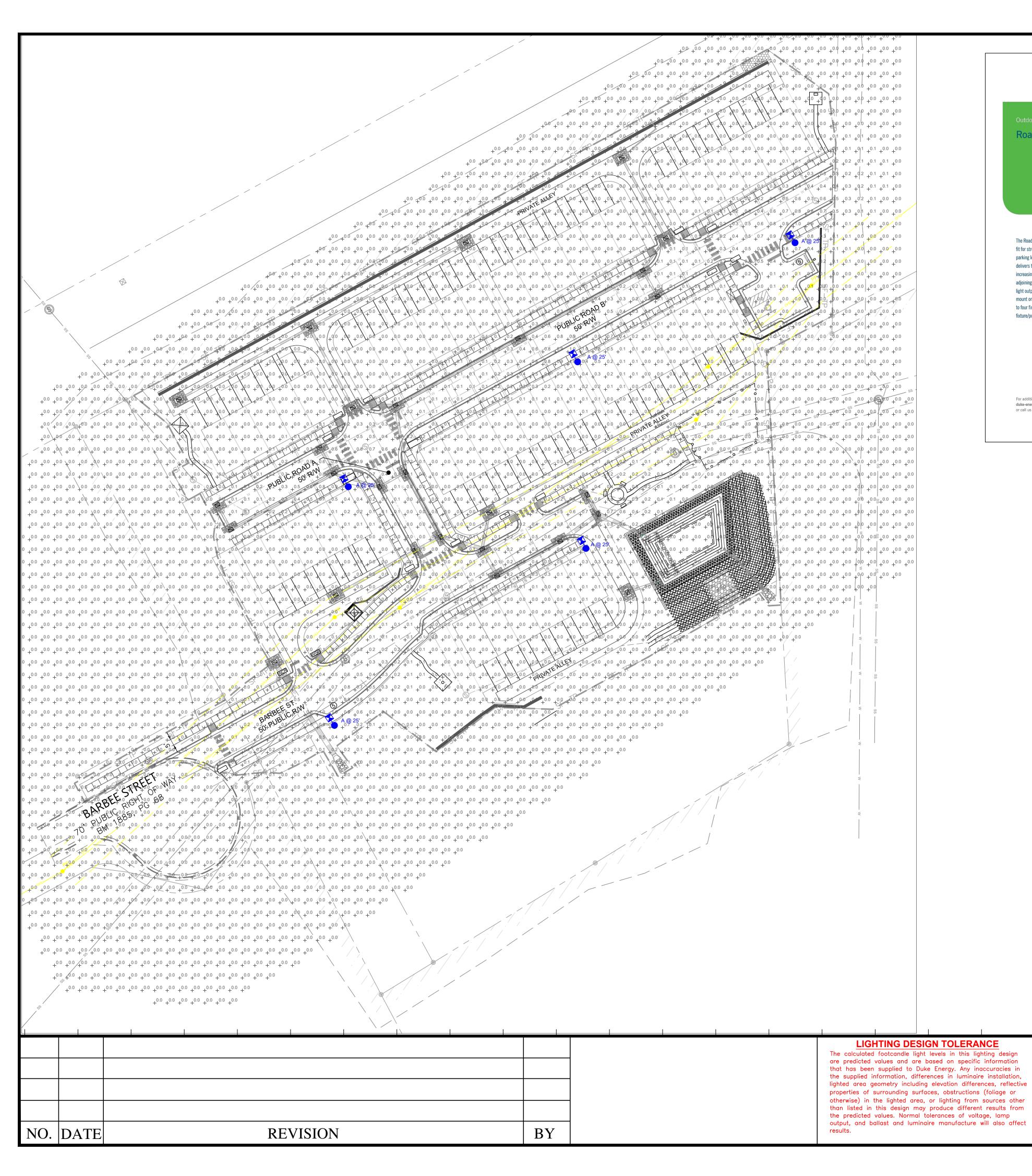
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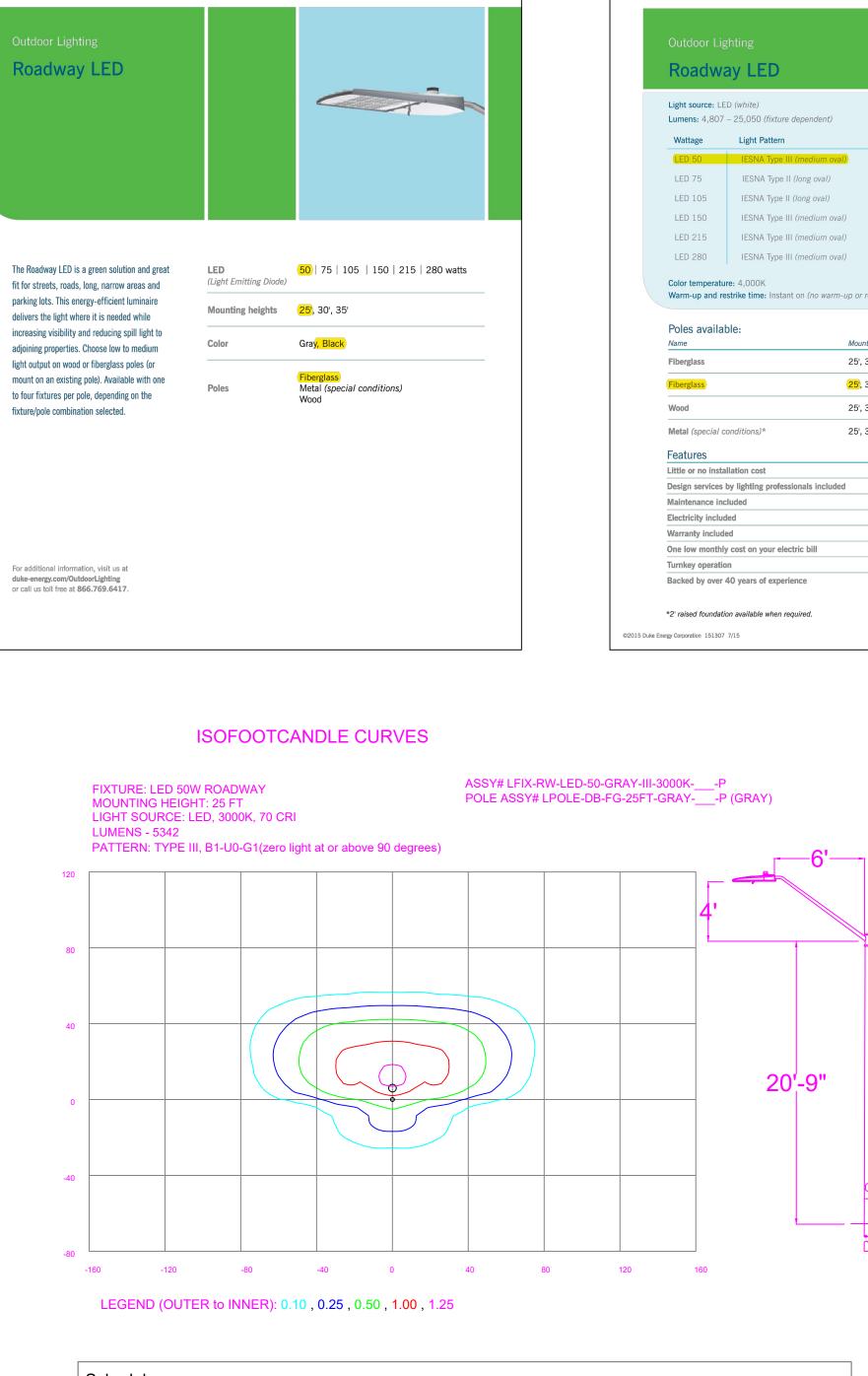
SILE

400

(DRAWING SCALED FOR 24x36 INCH PLOTS)

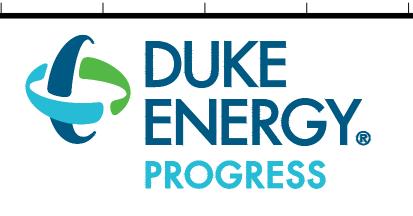
N/F JOSEPH WOOD TEMPLE DB 1857, PG 507 PIN:2705-64-5192





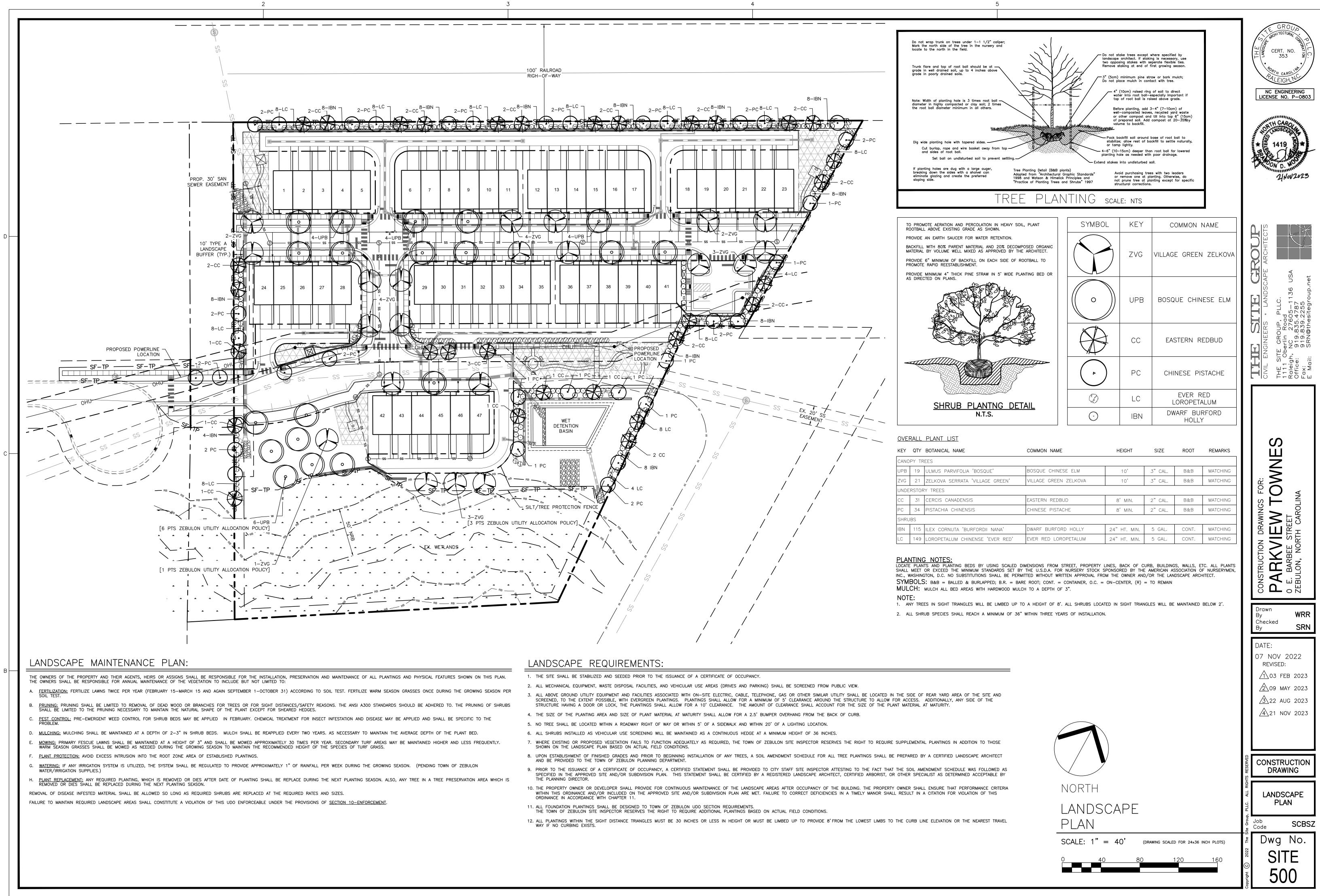
Schedule		1								
Symbol	Label	Quantity	Desc	ription			Number Lamps	Lum Per L		Light Loss Factor
	А	5	LED	50W Roadwa <u>y</u>	y - Type III - 300	ОК	1	53	12	0.85
Statistics										
Description Symbol Avg Max Min Max/Min Avg/Mir							g/Min			
Barbee Street X			0.3 fc	0.9 fc	0.0 fc	N/A			N/A	
Public Road A		\times		0.4 fc	0.9 fc	0.0 fc	N/A	•		N/A

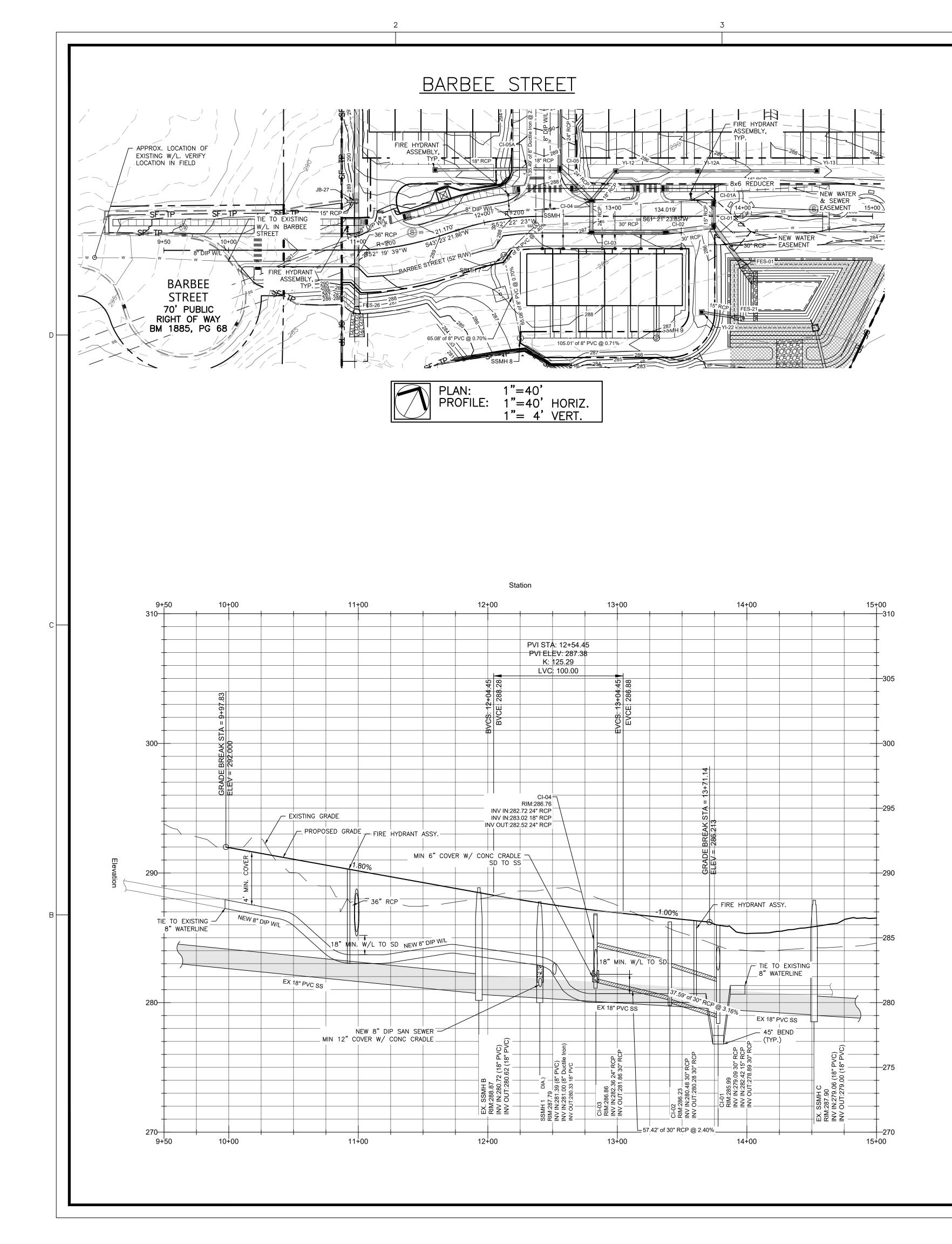
Schedule										
Symbol	Label	Quantity	Des	cription			Number Lamps	Lum Per L		Light Loss Factor
	А	5	LEC	LED 50W Roadway - Type III - 3000K 1 531				12	0.85	
Statistics										
Description Symbol Avg Max Min Max/Min Avg/Min							g/Min			
Barbee Street 🛛 💥			0.3 fc	0.9 fc	0.0 fc	N/A		N/A		
Public Road A				0.4 fc	0.9 fc	0.0 fc	N/A	۱		N/A

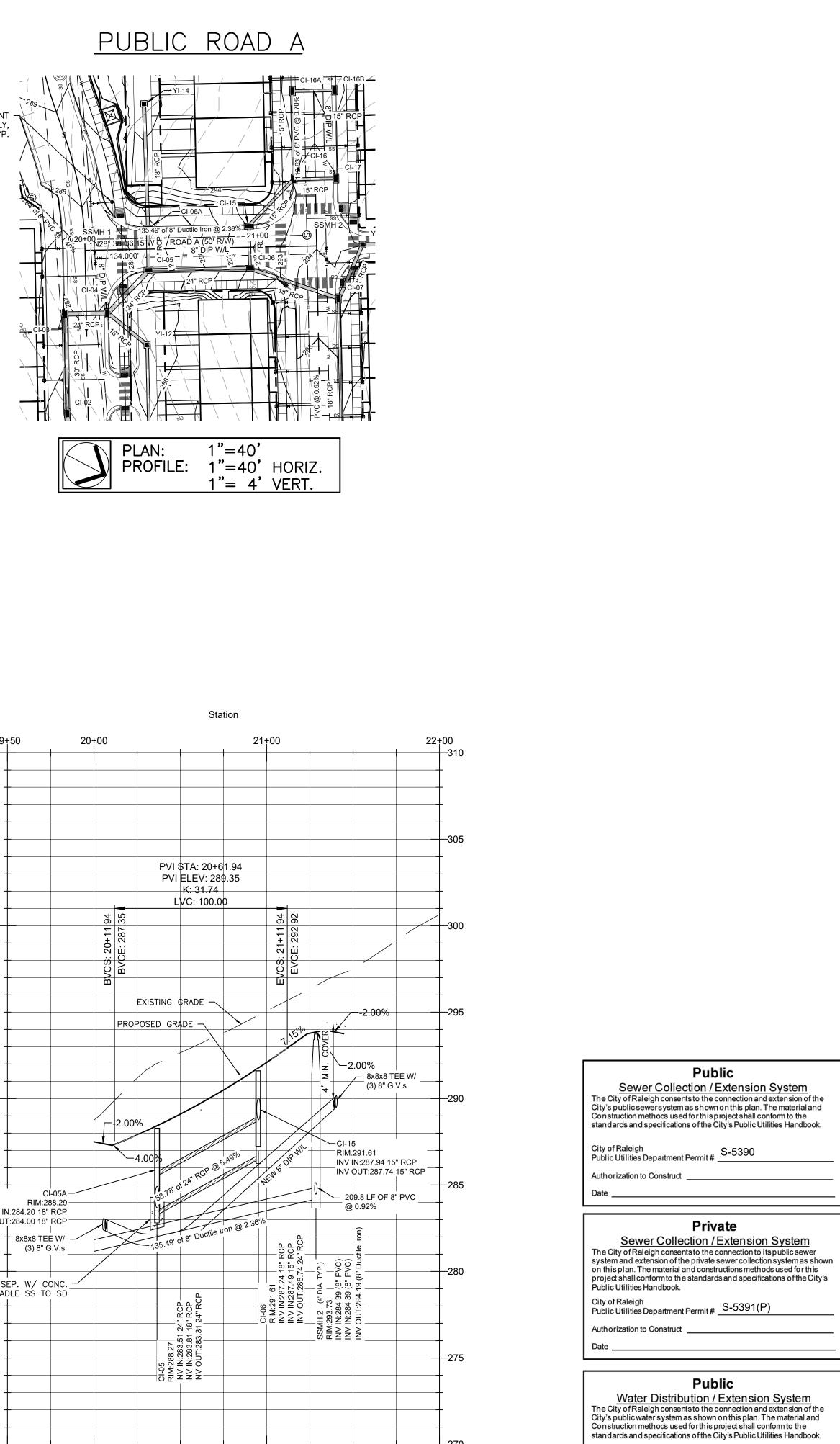


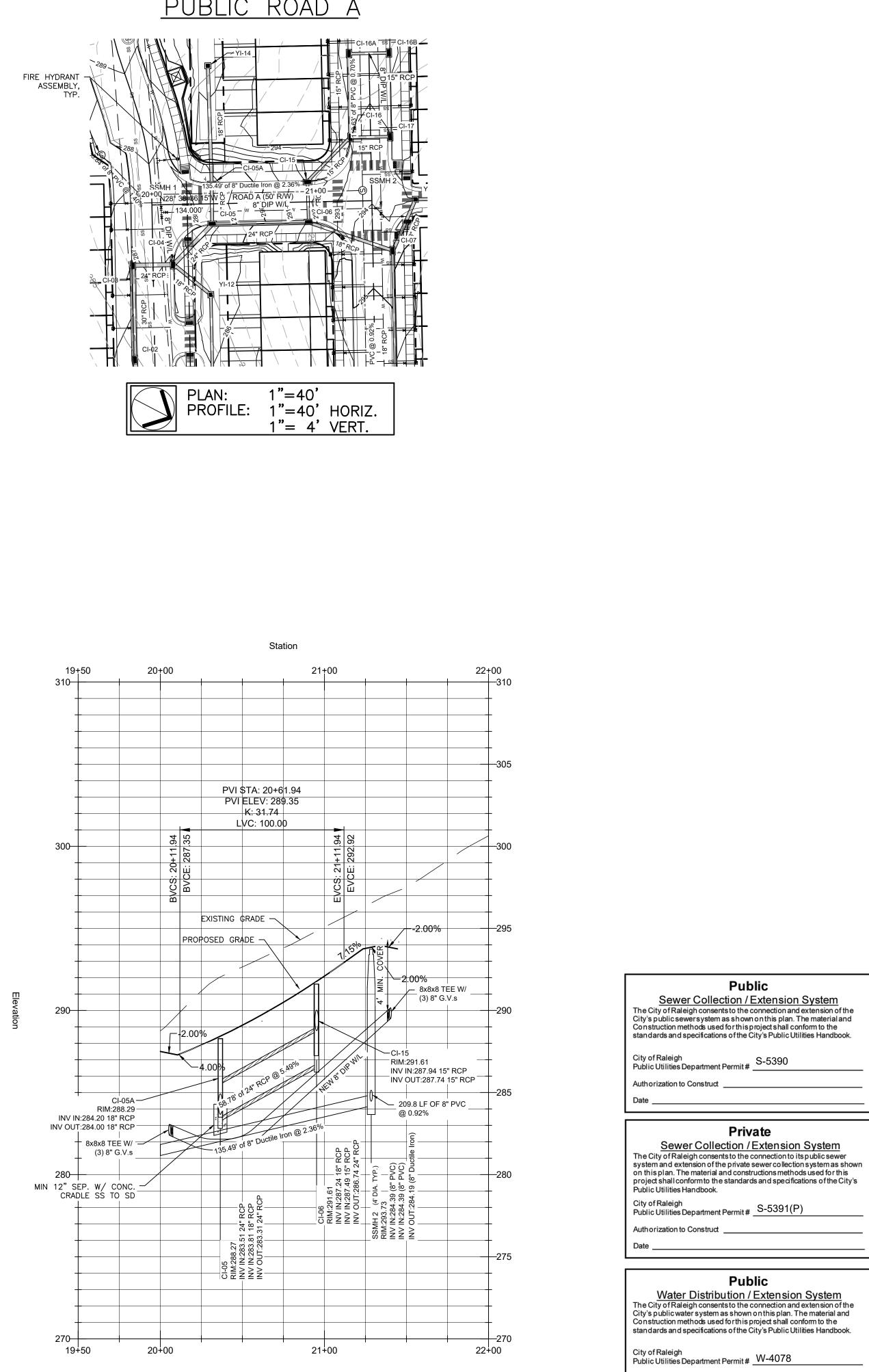
			DUKE ENERGY. PROGRESS
Outdoor Lighting Roadway LE	D		
Light source: LED (white) Lumens: 4,807 – 25,050 (Wattage Light Pa		IESNA Backlight – Glare (BUG) Ra	
LED 75 IESNA	Type III <i>(medium oval)</i> Type II <i>(long oval)</i> Type II <i>(long oval)</i>	B1-U0-G1 B1-U0-G2 B2-U0-G3	
	Type III (medium oval) Type III (medium oval)	B2-U0-G2 B3-U0-G3	Type III light distribution pattern
	Type III (medium oval)	B3-U0-G4	
LED 280 IESNA Color temperature: 4,000K Warm-up and restrike time:		B3-U0-G4	
LED 280 IESNA Color temperature: 4,000K	Type III (medium oval) Instant on (no warm-up or r	B3-U0-G4	Color
LED 280 IESNA Color temperature: 4,000K Warm-up and restrike time: Poles available: Name Fiberglass	Type III (medium oval) Instant on (no warm-up or r Mount 25', 3	B3-U0-G4 estrike time) ting height 30', 35'	Gray
LED 280 IESNA Color temperature: 4,000K Warm-up and restrike time: Poles available: Name Fiberglass Fiberglass	Type III (medium oval) Instant on (no warm-up or r Mount 25', 3 (25), 3	B3-U0-G4 estrike time) ting height 30', 35' 30', 35'	Gray Black (additional cost)
LED 280 IESNA Color temperature: 4,000K Warm-up and restrike time: Poles available: Name Fiberglass	Type III (medium oval) Instant on (no warm-up or r Mount 25', 3 (25), 3	B3-U0-G4 estrike time) ting height 30', 35'	Gray
LED 280 IESNA Color temperature: 4,000K Warm-up and restrike time: Poles available: Name Fiberglass Fiberglass	Type III (medium oval) Instant on (no warm-up or r Mount 25', 3 (25), 3 25', 3	B3-U0-G4 estrike time) ting height 30', 35' 30', 35'	Gray Black (additional cost)
LED 280 IESNA Color temperature: 4,000K Warm-up and restrike time: Poles available: Name Fiberglass Fiberglass Wood	Type III (medium oval) Instant on (no warm-up or r Mount 25', 3 (25), 3 25', 3	B3-U0-G4 estrike time) ling height 30', 35' 30', 35'	Gray Black (additional cost) Standard
LED 280 IESNA Color temperature: 4,000K Warm-up and restrike time: Poles available: Name Fiberglass Fiberglass Wood Metal (special conditions)*	Type III (medium oval) Instant on (no warm-up or r Mount 25', 3 (25), 3 25', 3	B3-U0-G4 estrike time) ling height 30', 35' 30', 35'	Gray Black (additional cost) Standard Gray
LED 280 IESNA Color temperature: 4,000K Warm-up and restrike time: Poles available: Name Fiberglass Fiberglass Wood Metal (special conditions)* Features Little or no installation cost Design services by lighting	Type III (medium oval) Instant on (no warm-up or r Mount 25', 3 (25), 3 25', 3 25', 3	B3-U0-G4 estrike time) ling height 30', 35' 30', 35'	Gray Black (additional cost) Standard Gray Benefits Frees up capital for other projects Meets industry standards and lighting ordinances
LED 280 IESNA Color temperature: 4,000K Warm-up and restrike time: Poles available: Name Fiberglass Fiberglass Wood Metal (special conditions)* Features Little or no installation cost Design services by lighting Maintenance included	Type III (medium oval) Instant on (no warm-up or r Mount 25', 3 (25), 3 25', 3 25', 3	B3-U0-G4 estrike time) ling height 30', 35' 30', 35'	Gray Black (additional cost) Standard Gray Benefits Frees up capital for other projects Meets industry standards and lighting ordinances Eliminates high and unexpected repair bills
LED 280 IESNA Color temperature: 4,000K Warm-up and restrike time: Poles available: Name Fiberglass Fiberglass Wood Metal (special conditions)* Features Little or no installation cost Design services by lighting Maintenance included Electricity included	Type III (medium oval) Instant on (no warm-up or r Mount 25', 3 (25), 3 25', 3 25', 3	B3-U0-G4 estrike time) ling height 30', 35' 30', 35'	Gray Gray Black (additional cost) Standard Gray Benefits Frees up capital for other projects Meets industry standards and lighting ordinances Eliminates high and unexpected repair bills Less expensive than metered service
LED 280 IESNA Color temperature: 4,000K Warm-up and restrike time: Poles available: Name Fiberglass Fiberglass Wood Metal (special conditions)* Features Little or no installation cost Design services by lighting Maintenance included Electricity included	Type III (medium oval) Instant on (no warm-up or r Mount 25', 3 25', 3 25', 3 25', 3	B3-U0-G4 estrike time) ling height 30', 35' 30', 35'	Gray Gray Black (additional cost) Standard Gray Benefits Frees up capital for other projects Meets industry standards and lighting ordinances Eliminates high and unexpected repair bills Less expensive than metered service Worry-free
LED 280 IESNA Color temperature: 4,000K Warm-up and restrike time: Poles available: Name Fiberglass Fiberglass Wood Metal (special conditions)* Features Little or no installation cost Design services by lighting Maintenance included Electricity included	Type III (medium oval) Instant on (no warm-up or r Mount 25', 3 25', 3 25', 3 25', 3	B3-U0-G4 estrike time) ling height 30', 35' 30', 35'	Gray Gray Black (additional cost) Standard Gray Benefits Frees up capital for other projects Meets industry standards and lighting ordinances Eliminates high and unexpected repair bills Less expensive than metered service

PROPRIETARY & CONFIDENTIAL	0 Barbee Street
This document together with the concepts and designs presented herein,	Zebulon, NC
presented as an instrument of service, is the sole property of Duke Energy, and is intended only for the specific purpose and prospective	STREET LIGHTING ARRANGEMENT
client as stated in the title block of this drawing. Any use, copying, reproduction or disclosure of the drawing, design or any information	Designed by DUKE ENERGY PROGRESS LIGHTING SOLUTIONS
contained herein by the prospective customer or other entities, including	Reviewed by <u>A. Herrera</u> Scale $1'' = 40'$
without limitation, architects, engineers, or equipment manufacturers is hereby expressly prohibited and shall not be permitted absent prior	Date <u>9/28/2023</u> Size Drawing size "D"
written consent from, and payment of compensation to Duke Energy. Duke Energy disclaims any liability or responsibility for any	Description LED Roadway
unauthorized use of or reliance on this document.	Drawing No 23-0401 Sht1 OF 1







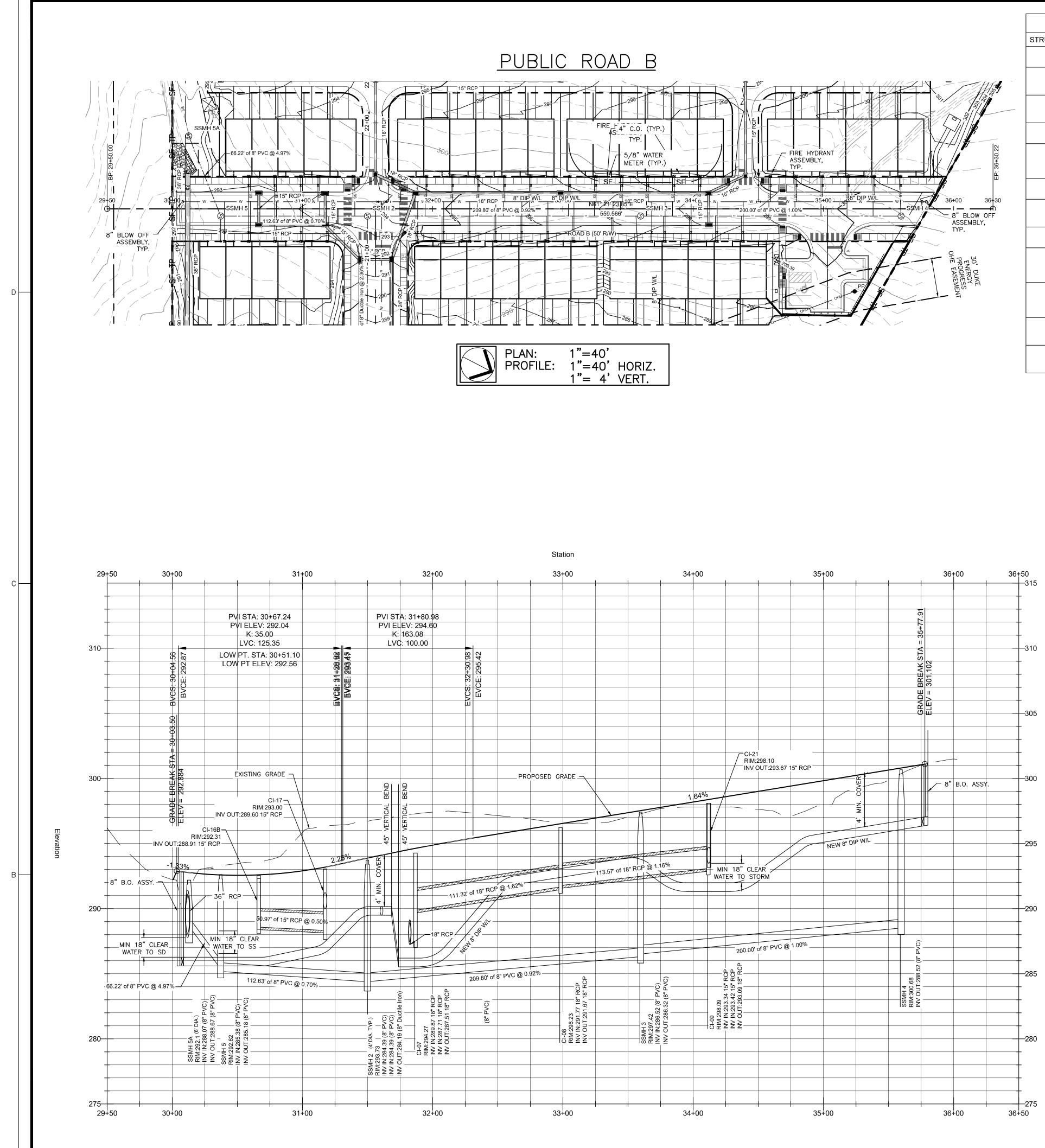


Authorization to Construct

11/21/2023 K NEERS - LAND E GROUP, PLLC. berlin Road NC 27605-11 919.835.4787 919.839.2255 SRN@thesitegro THE ENGIN THE (1111 Raleig Office Fax: E Mai ဟ Ш Ζ \leq Ο 3 VIE^V BARBE Ο т т Ц Т Drawn WRR Checked SRN DATE: 03 FEB 2023 **REVISED:** 109 MAY 2023 2224 AUG 2023 321 NOV 2023 CONSTRUCTION DRAWINGS BARBEE ST & ROAD A PLAN & PROFILE Job SCBSZ Code Dwg No. SILF 600

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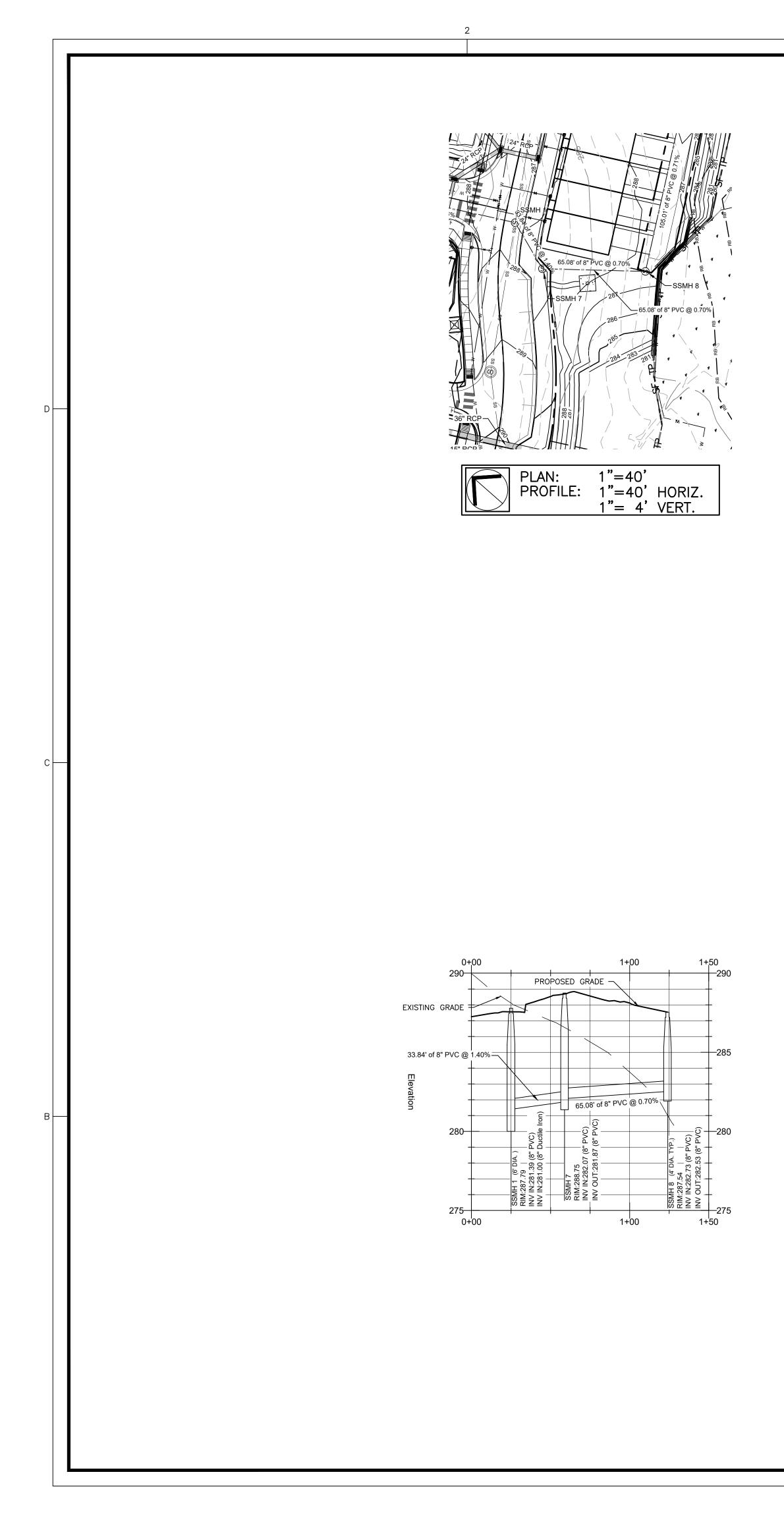
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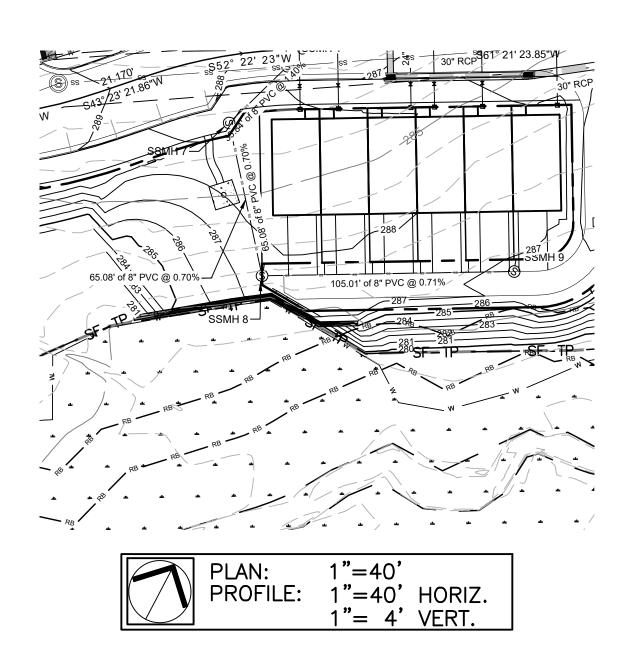


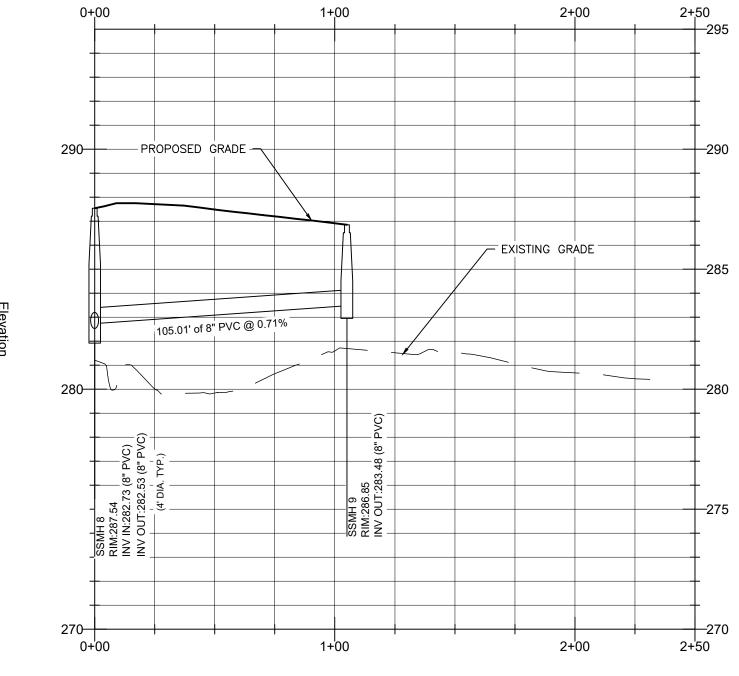
STORM SE	WER STRUCTURE TABLE	STORM SEV	WER STRUCTURE TABLE	STORM SEWER STRUCTURE TABLE		
STRUCTURE NAME:	DETAILS:	STRUCTURE NAME:	DETAILS:	STRUCTURE NAME:	DETAILS:	
YI-11A	RIM = 300.44 INV OUT = 296.09 (156.0 LF 15" RCP @ 1.00%)	CI-16	RIM = 293.06 INV IN = 289.47 (24.8 LF 15" RCP @ 0.50%) INV IN = 288.33 (51.0 LF 15" RCP @ 0.50%)	YI-13	RIM = 287.82 INV OUT = 284.75 (92.0 LF 15" RCP @ 0.89%	
YI-11	RIM = 298.77 INV IN = 294.53 (156.0 LF 15" RCP @ 1.00%) INV OUT = 294.33 (73.3 LF 15" RCP @ 1.00%)	CI-17	INV OUT = 288.13 (37.3 LF 15" RCP @ 0.50%) RIM = 293.00	CI-03 TYPE "F"	RIM = 286.86 INV IN = 282.36 (25.0 LF 24" RCP @ 0.64%) INV OUT = 281.86 (57.4 LF 30" RCP @ 2.40%	
YI-10	RIM = 298.71 INV IN = 293.60 (73.3 LF 15" RCP @ 1.00%) INV OUT = 293.50 (31.4 LF 15" RCP @ 0.51%)	YI-14	INV OUT = 289.60 (24.8 LF 15" RCP @ 0.50%) RIM = 292.65 INV OUT = 286.00 (71.6 LF 18" RCP @ 2.51%)	CI-04 TYPE "G"	RIM = 286.76 INV IN = 282.72 (34.0 LF 24" RCP @ 1.75%) INV IN = 283.02 (29.2 LF 18" RCP @ 0.50%) INV OUT = 282.52 (25.0 LF 24" RCP @ 0.64%)	
CI-21 TYPE "G"	RIM = 298.10 INV OUT = 293.67 (24.9 LF 15" RCP @ 0.99%) RIM = 298.09	CI-16A TYPE "E"	RIM = 292.55 INV IN = 288.78 (25.0 LF 15" RCP @ 0.50%) INV OUT = 288.58 (51.0 LF 15" RCP @ 0.50%)	YI-12A	RIM = 286.30 INV IN = 283.93 (92.0 LF 15" RCP @ 0.89%) INV OUT = 283.73 (63.2 LF 15" RCP @ 0.50%)	
CI-09 TYPE "F"	INV IN = 293.34 (31.4 LF 15" RCP @ 0.51%) INV IN = 293.42 (24.9 LF 15" RCP @ 0.99%) INV OUT = 293.09 (113.6 LF 18" RCP @ 1.16%)	YI-19A	RIM = 292.52 INV OUT = 289.28 (118.9 LF 15" RCP @ 0.50%)	CI-02	RIM = 286.23 INV IN = 280.48 (57.4 LF 30" RCP @ 2.40%)	
YI-20	RIM = 296.46	CI-16B TYPE "E"	RIM = 292.31 INV OUT = 288.91 (25.0 LF 15" RCP @ 0.50%)	TYPE "F"	INV OUT = 280.28 (37.6 LF 30" RCP @ 3.16%	
CI-08 TYPE "F"	INV OUT = 292.04 (142.2 LF 15" RCP @ 2.08%) RIM = 296.23 INV IN = 291.77 (113.6 LF 18" RCP @ 1.16%) INV OUT = 291.67 (111.3 LF 18" RCP @ 1.62%)	CI-06 TYPE "G"	RIM = 291.61 INV IN = 287.24 (54.2 LF 18" RCP @ 0.50%) INV IN = 287.49 (24.9 LF 15" RCP @ 1.00%) INV OUT = 286.74 (58.9 LF 24" RCP @ 5.49%)	CI-01 TYPE "E"	RIM = 285.99 INV IN = 279.09 (37.6 LF 30" RCP @ 3.16%) INV IN = 282.42 (17.7 LF 15" RCP @ 1.00%) INV OUT = 278.89 (38.0 LF 30" RCP @ 1.04%)	
FES-29	RIM = 296.00 INV OUT = 290.00 (12.7 LF 36" RCP @ 7.89%)	CI-15	RIM = 291.61 INV IN = 287.94 (37.3 LF 15" RCP @ 0.50%)	CI-01A TYPE "E"	RIM = 285.89 INV OUT = 282.60 (17.7 LF 15" RCP @ 1.00%	
	RIM = 294.64	TYPE "F"	INV OUT = 287.74 (24.9 LF 15" RCP @ 1.00%)	YI-22	RIM = 285.70 INV OUT = 281.39 (25.8 LF 15" RCP @ 11.28%	
YI-19	INV IN = 289.08 (142.2 LF 15" RCP @ 2.08%) INV IN = 288.69 (118.9 LF 15" RCP @ 0.50%) INV OUT = 288.49 (72.4 LF 18" RCP @ 0.57%)	JB-27	RIM = 290.00 INV IN = 286.00 (139.0 LF 36" RCP @ 1.71%) INV IN = 287.80 (7.3 LF 15" RCP @ 1.36%) INV OUT = 285.80 (86.5 LF 36" RCP @ 0.92%)	YI-12	RIM = 285.58 INV IN = 283.42 (63.2 LF 15" RCP @ 0.50%) INV OUT = 283.17 (29.2 LF 18" RCP @ 0.50%	
CI-07 TYPE "F"	RIM = 294.27 INV IN = 289.87 (111.3 LF 18" RCP @ 1.62%) INV IN = 287.71 (34.0 LF 18" RCP @ 0.50%) INV OUT = 287.51 (54.2 LF 18" RCP @ 0.50%)	FES-26	RIM = 288.42 INV IN = 285.00 (86.5 LF 36" RCP @ 0.92%)	FES-21	RIM = 283.50 INV IN = 278.50 (25.8 LF 15" RCP @ 11.28%)	
YI-18	RIM = 293.97 INV IN = 288.08 (72.4 LF 18" RCP @ 0.57%)	CI-05A TYPE "F"	RIM = 288.29 INV IN = 284.20 (71.6 LF 18" RCP @ 2.51%) INV OUT = 284.00 (24.9 LF 18" RCP @ 0.76%)	FES-01	RIM = 281.38 INV IN = 278.50 (38.0 LF 30" RCP @ 1.04%)	
JB-28	INV OUT = 287.88 (34.0 LF 18" RCP @ 0.50%) RIM = 293.18 INV IN = 289.00 (12.7 LF 36" RCP @ 7.89%) INV OUT = 288.37 (139.0 LF 36" RCP @ 1.71%)	CI-05 TYPE "G"	RIM = 288.27 INV IN = 283.51 (58.9 LF 24" RCP @ 5.49%) INV IN = 283.81 (24.9 LF 18" RCP @ 0.76%) INV OUT = 283.31 (34.0 LF 24" RCP @ 1.75%)			

CERT. NO. HUMONITECTURAL GRADITIES HUMONITECTURAL GRADITIES HORTH CAROLUM HORTH CAROLUM HORTH CAROLUM HUMONITES NO. P-0803
THE SITE CROUP, PLLC. CIVIL ENGINEERS • LANDSCAPE ARCHITECTS CIVIL ENGINEERS • LANDSCAPE ARCHITECTS THE SITE GROUP, PLLC. THE SITE GROUP. THE SITE GROUP.
CONSTRUCTION DRAWINGS FOR: PARKVIEW TOWNES 0 E. BARBEE STREET C BULON, NORTH CAROLINA MMR
Checked SRN DATE: 03 FEB 2023 REVISED: 109 MAY 2023 2224 AUG 2023 2223 321 NOV 2023 223
CONSTRUCTION DRAWINGS PUBLIC ROAD B PLAN & PROFILE Job Code SCBSZ
Dwg No. SITE 601

Public Sewer Collection / Extension System The City of Raleigh consents to the connection and extension of the City's public sewersystem 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. Authorization to Construct Date Private Sewer Collection / Extension System The City of Raleigh consents to the connection to its public sewer system and extension of the private sewer collection system as shown on this plan. The material and constructions 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 # S-5391(P) Authorization to Construct 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 # <u>W-4078</u> Authorization to Construct Date _



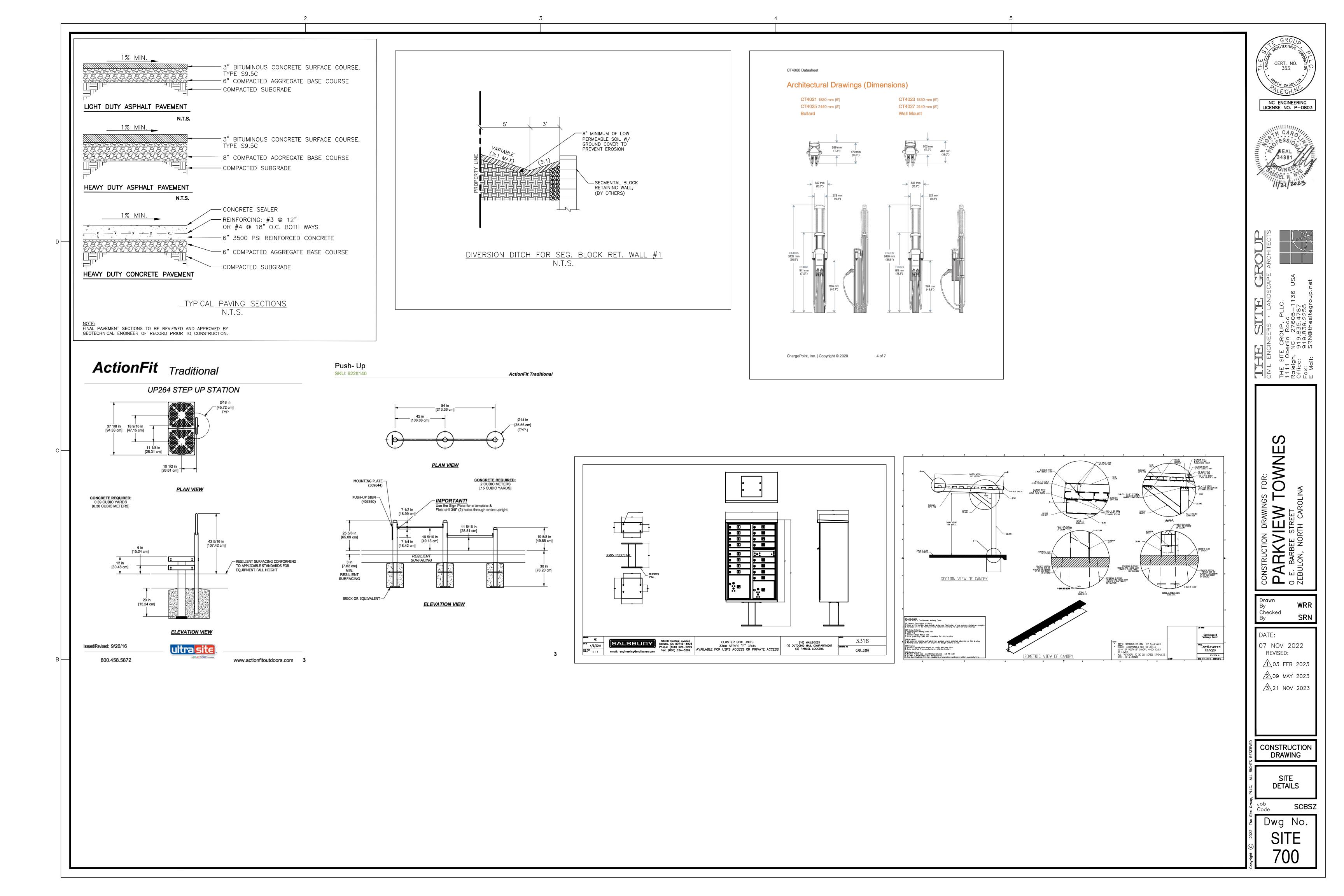


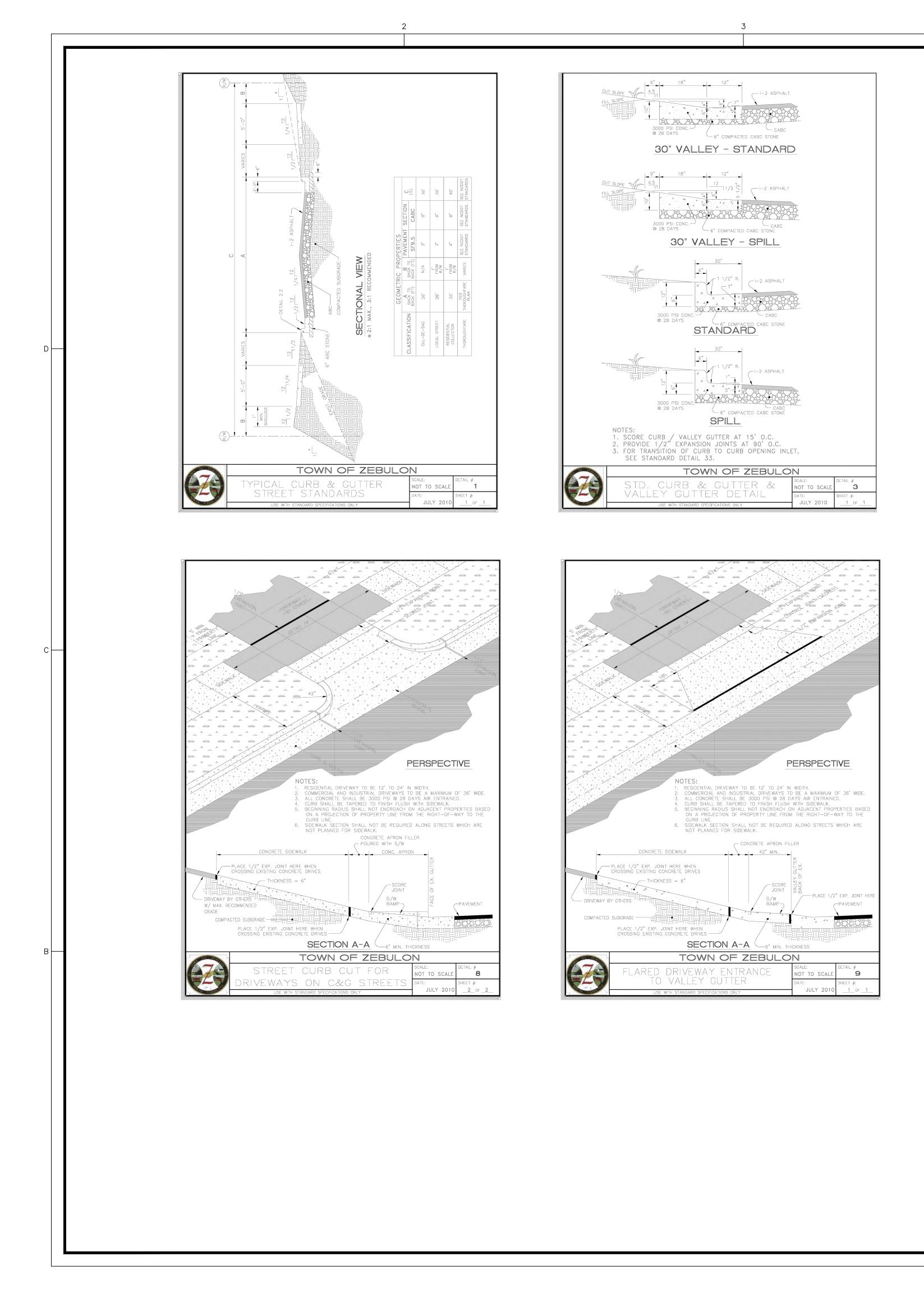


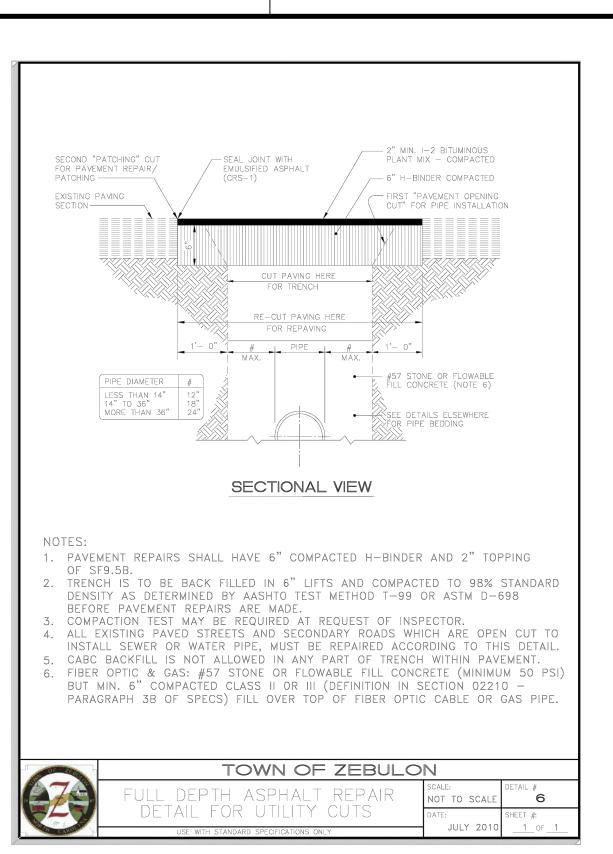


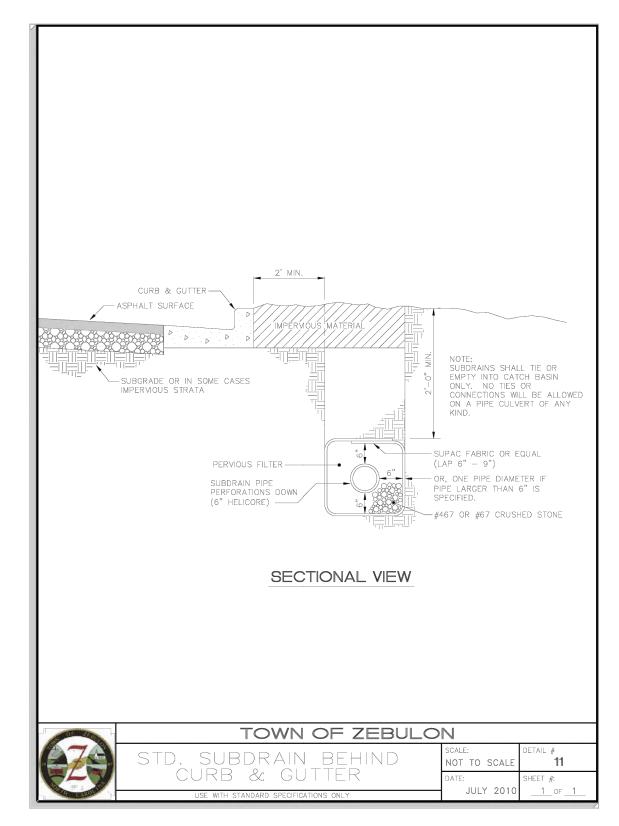
Public Sewer Collection / Extension System The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and Construction methods used for this project shall conform to the stan dards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # S-5390 Authorization to Construct		Drawn By Checked By DATE: 09 MAY 202 REVISED: 124 AUG 2 2221 NOV 2
Date	RESERVED	CONSTRUCT
Authorization to Construct	2023 The Site Group, PLLC. ALL RIGHTS R	SANITARY SEWER PLAN & PROFILE Job Code S
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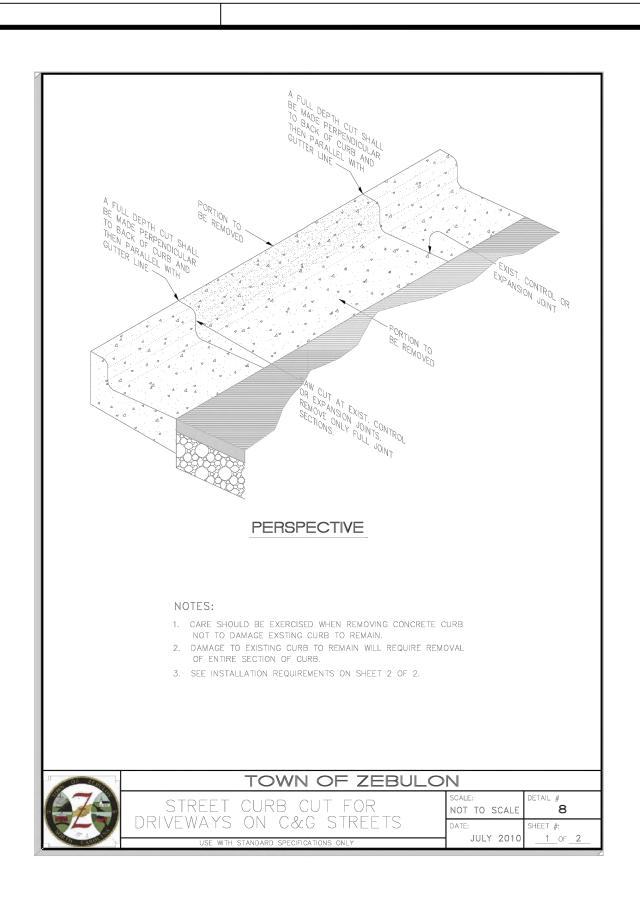
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	THE SITE GROUP, PLLC. THE SITE GROUP, PLLC. 1111 Oberlin Road Raleigh, NC 27605–1136 USA Office: 919.835.4787 Fax: 919.835.2255 Fax: 919.839.2255 E Mail: SRN@thesitegroup.net
	construction drawings for: PARKVIEW TOWNES 0 E. Barbee street 2EBULON, NORTH CAROLINA
the nd ok.	Drawn By WRR Checked By SRN DATE: 09 MAY 2023 REVISED: 1 24 AUG 2023 2 21 NOV 2023
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the nd ok.	PLAN & PROFILE Job Code SCBSZ Job Code SCBSZ Dwg No. SITE 602

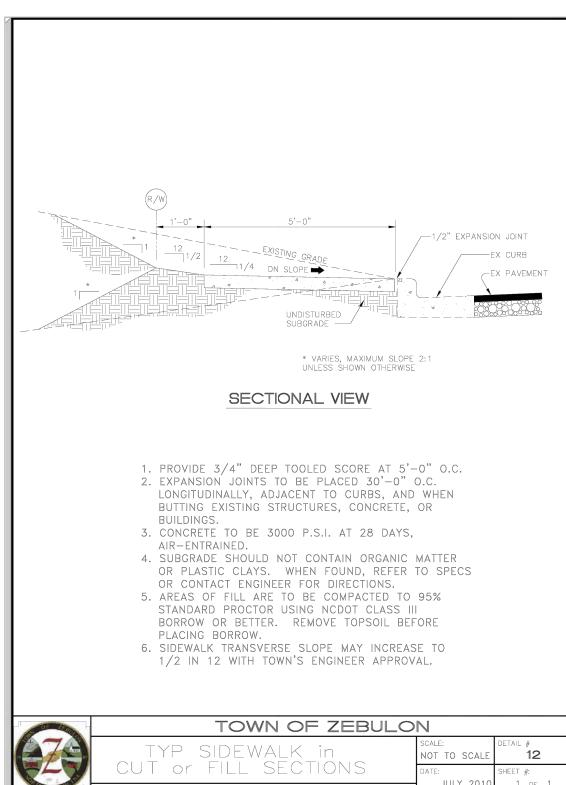












CUT or FILL SECTIONS

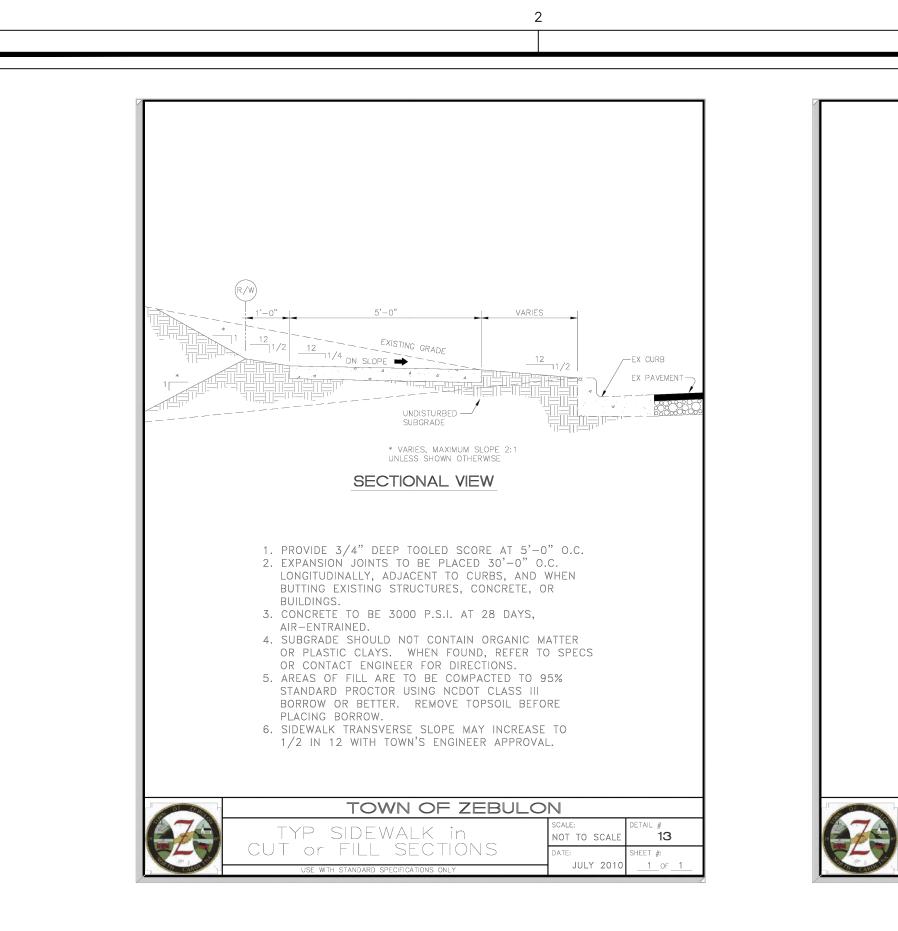
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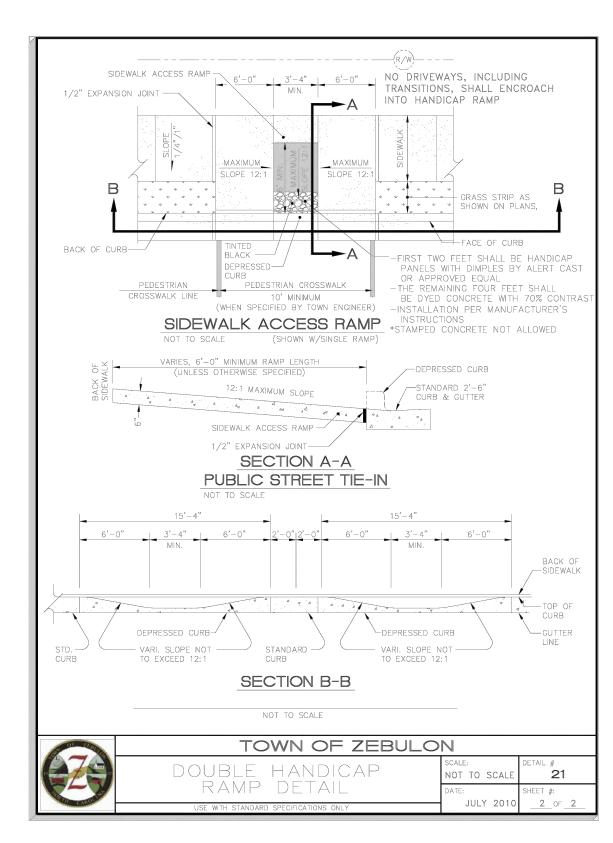
JULY 2010

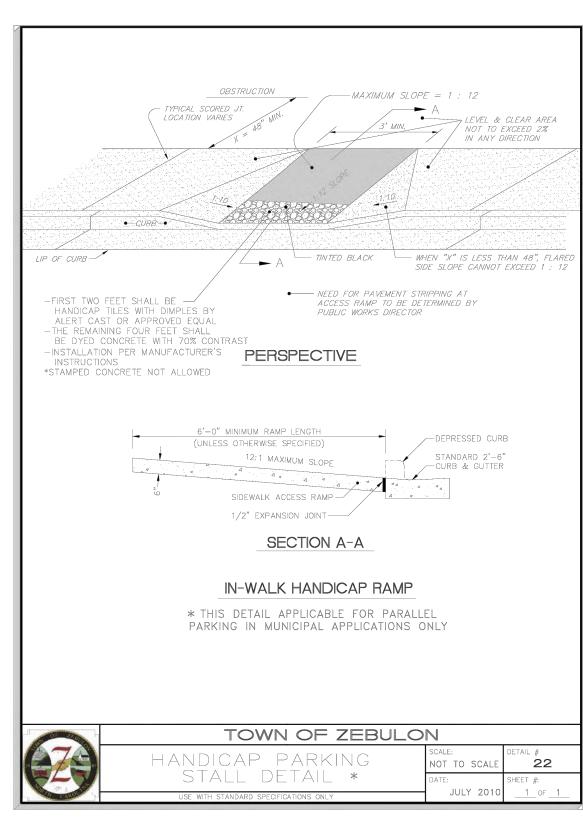
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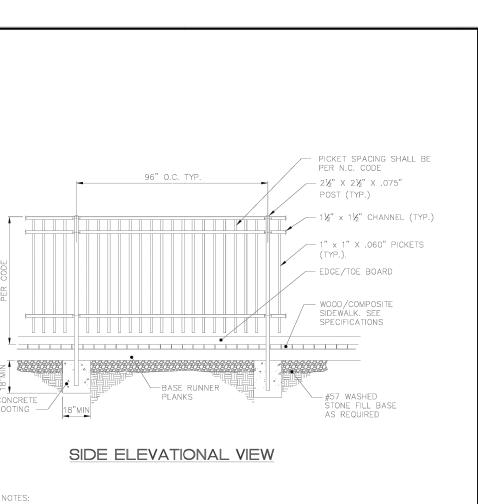
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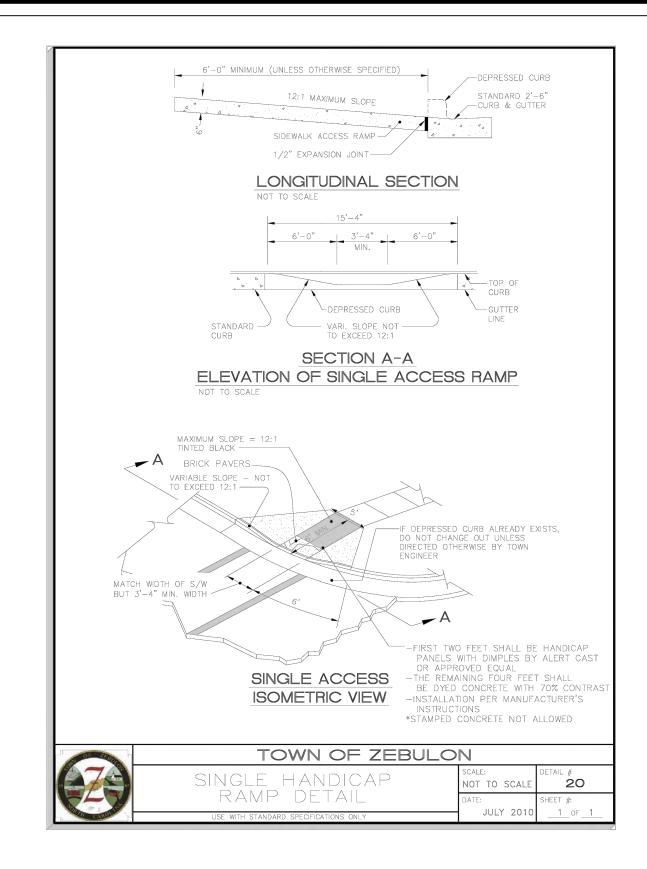


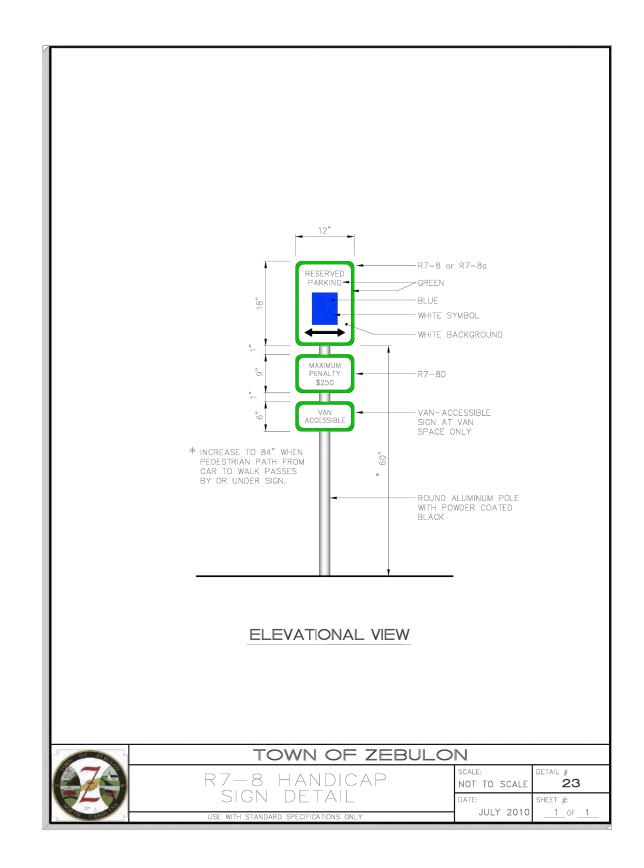


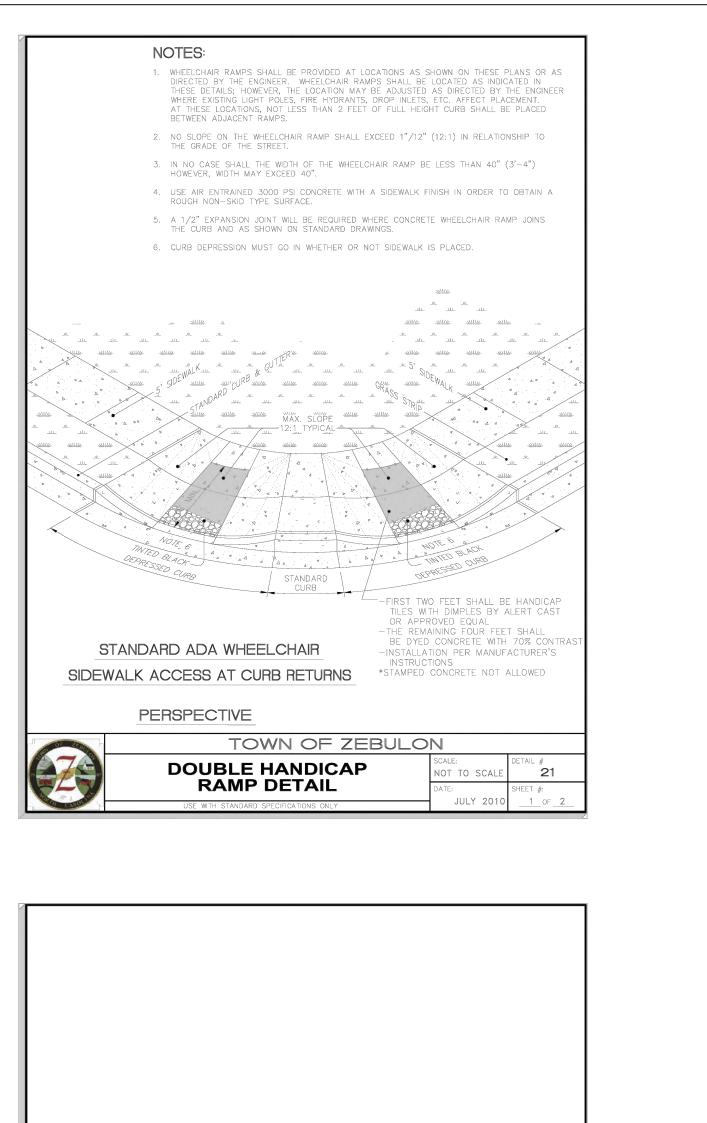
NULES: 1. ALUMINUM RAILING TO BE ASTM MANUFACTURERS INDUSTRIAL GRADE, FABRICATED AND INSTALLED PER MANUFACTURER'S STANDARDS AND SPECIFICATIONS TO N.C. STATE CODE. NC DESIGN CODE RATING FOR HANDRAILS SHALL BE USED FOR DESIGN PARAMETERS. REFER TO NC BUILDING CODE. 2. ALL ALUMINUM RAILING SHALL HAVE AN ELECTROSTATICALLY APPLIED BAKED ON FLEXIBLE ACRYLIC BLACK FINISH THAT MEETS OR EXCEEDS INDUSTRY STANDARD TESTS (ASTM). 3. CONTRACTOR SHALL SUBMIT STAMPED SHOP DRAWINGS FROM A NC REGISTERED ENGINEER AND SONTRACTOR SHALL SUBMIT STAMPED SHOP DRAWINGS FROM A NC REGISTERED ENGINEER AND SAMPLES OF ALUMINUM RAILING PRIOR TO OWNER'S APPROVAL, DESIGN MUST MEET ALL LOCAL AND STATE CODES HAVING JURSIDICTION.
 CONTRACTOR SHALL SETUP A SAMPLE SECTION OF ALUMINUM RAILING (ONE RAIL PANEL LENGTH, MINIMUM) FOR OWNER'S APPROVAL, PRIOR TO RAILING INSTALLATION.

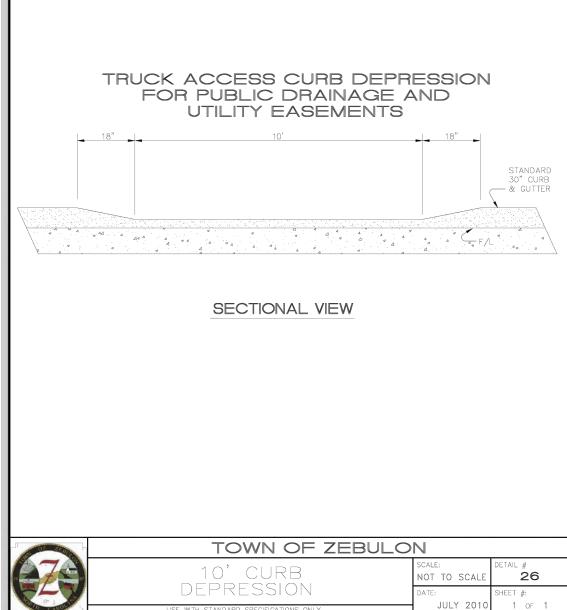
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DETAIL	DATE:	SHEET #:				
USE WITH STANDARD SPECIFICATIONS ONLY	JULY 2010	OF				

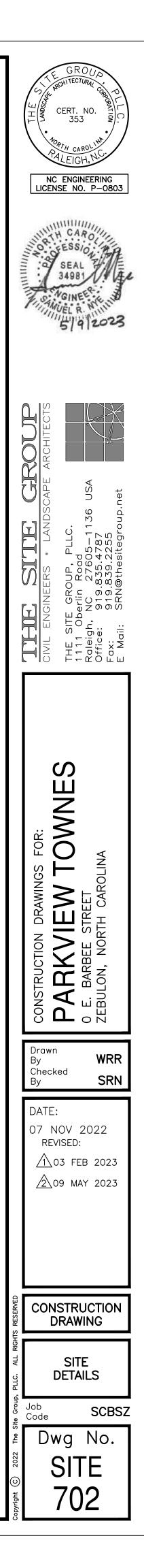
TOWN OF ZEBULON		
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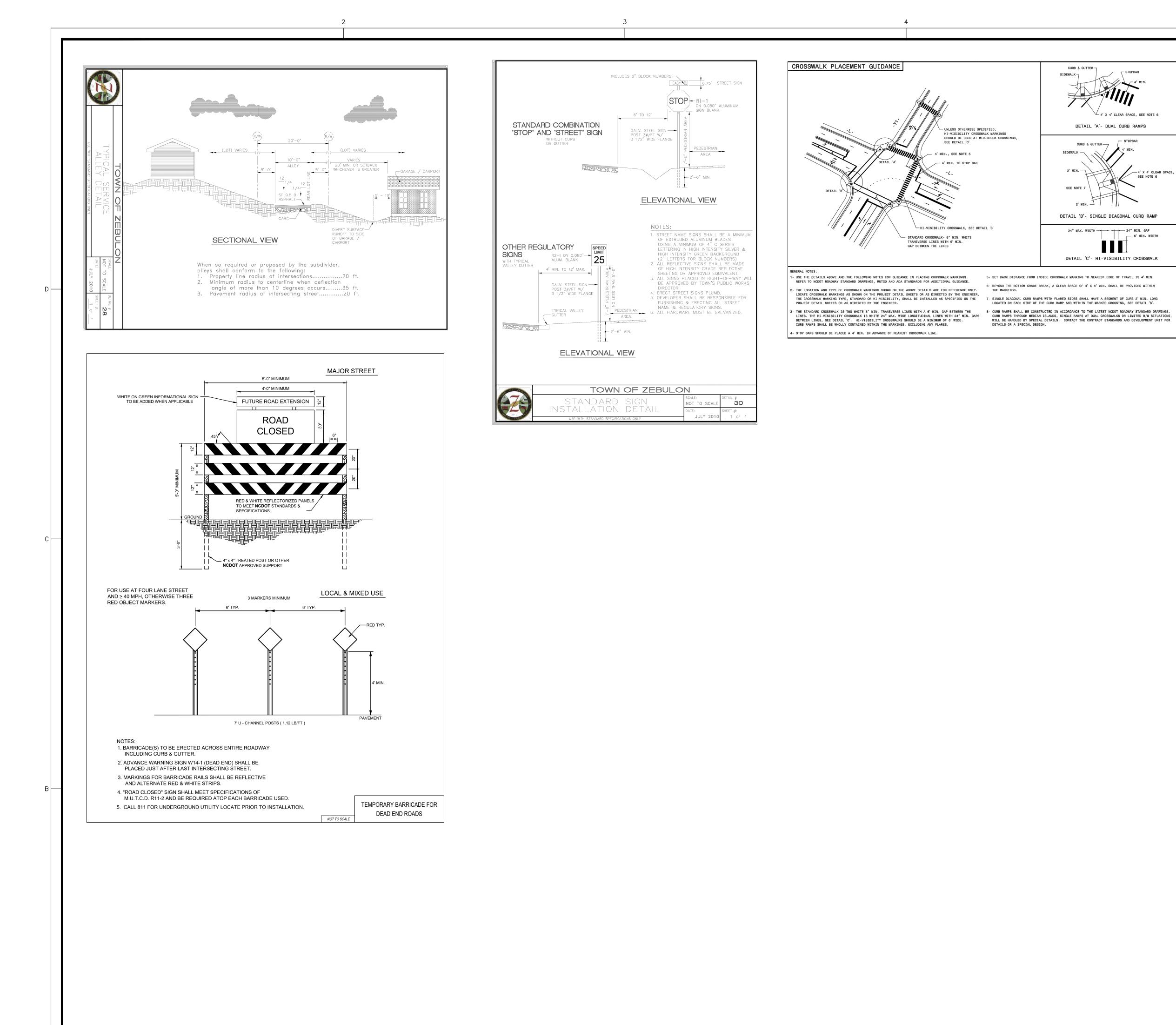




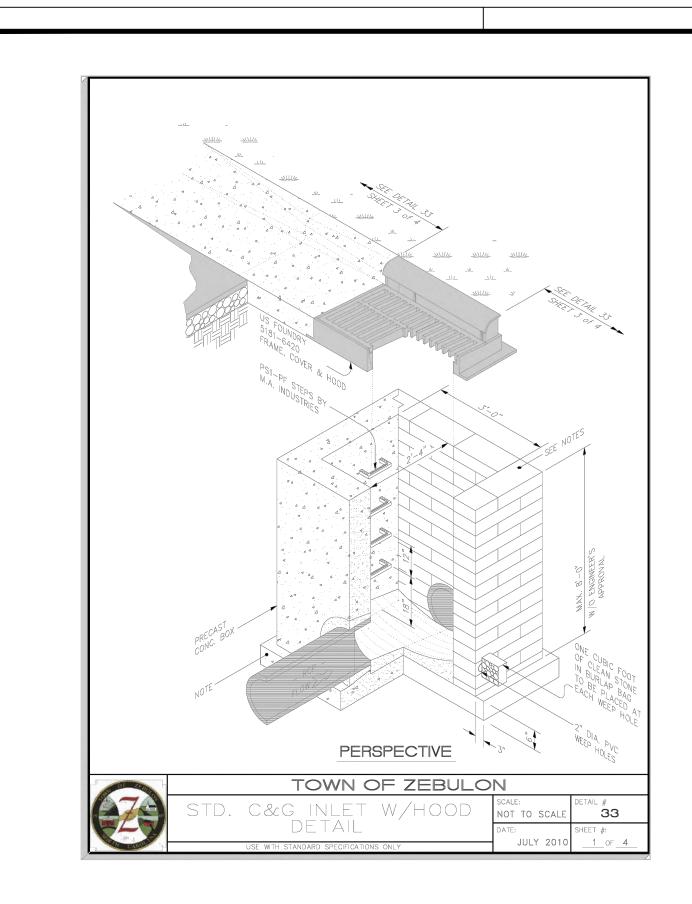


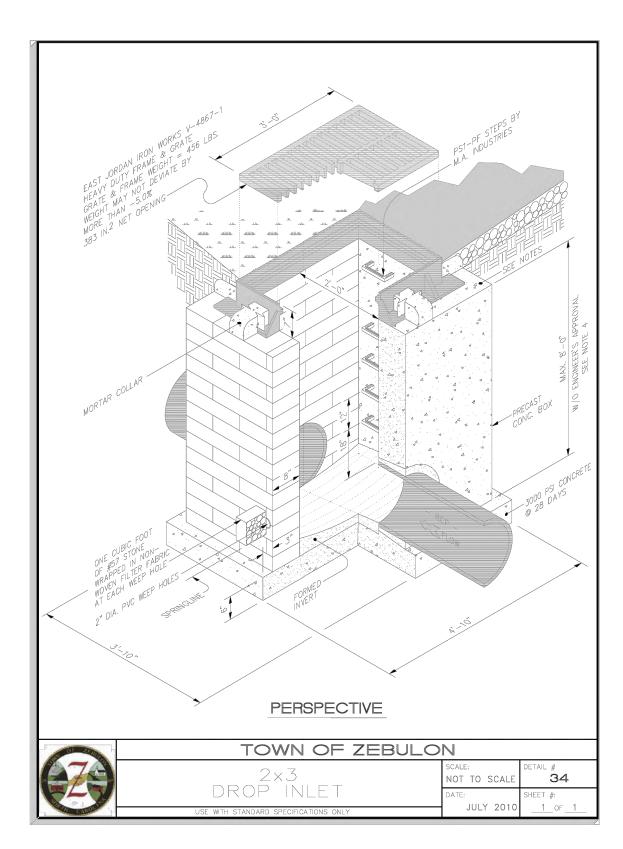


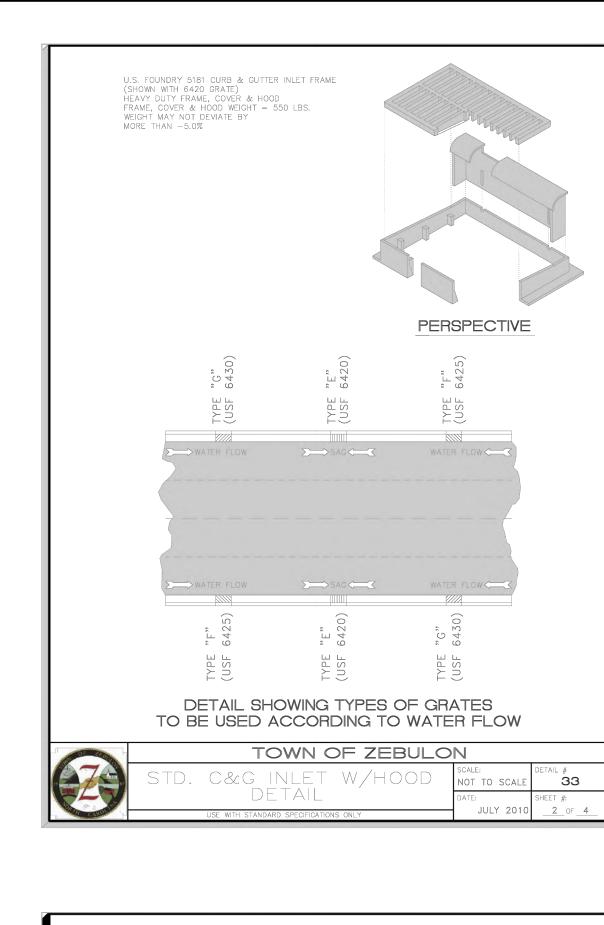


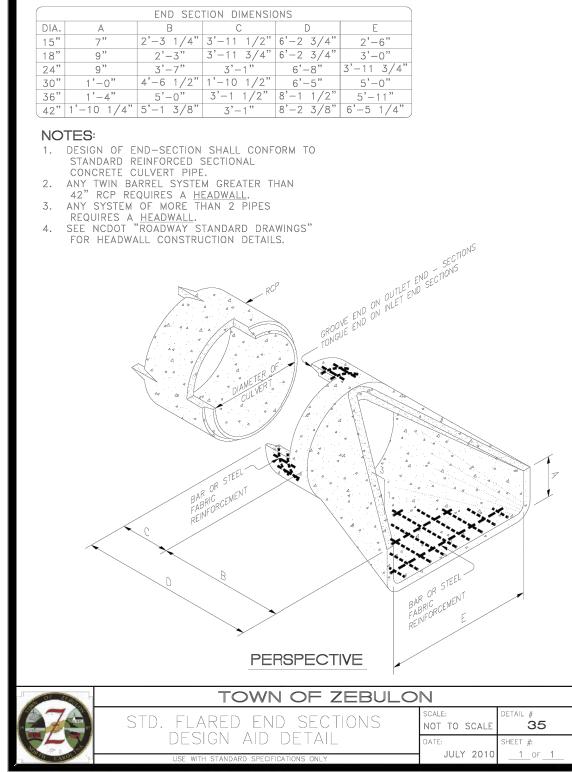


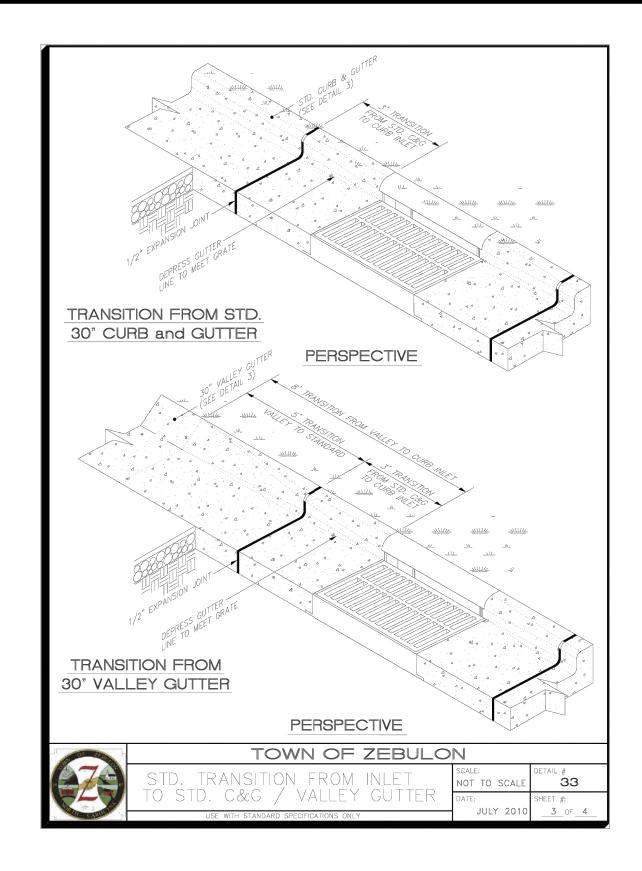
CERT. NO. 353 CERT. NO. 353 CERT. NO. CERT. NO. C
THE SITE GROUP, PLLC. THE SITE GROUP, PLLC. THE SITE GROUP, PLLC. 111 Oberlin Road Raleigh, NC 27605-1136 USA 919.835.4787 Fax: 919.835.4787 Fax: SRN@thesitegroup.net
AND THE TARES
Sobvidut (2) SITE DETAILS Job Code SCBSZ Dwg No. SITE genn Hr.

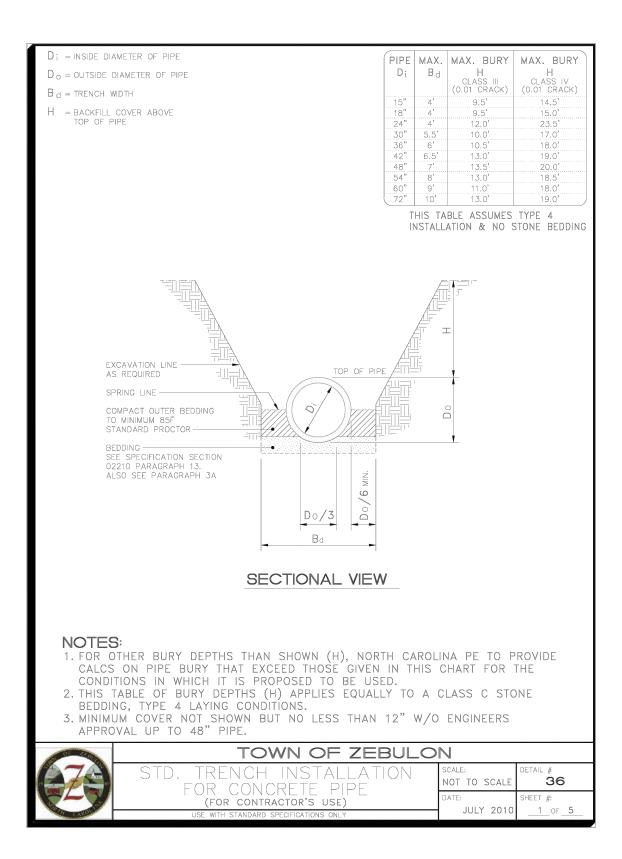


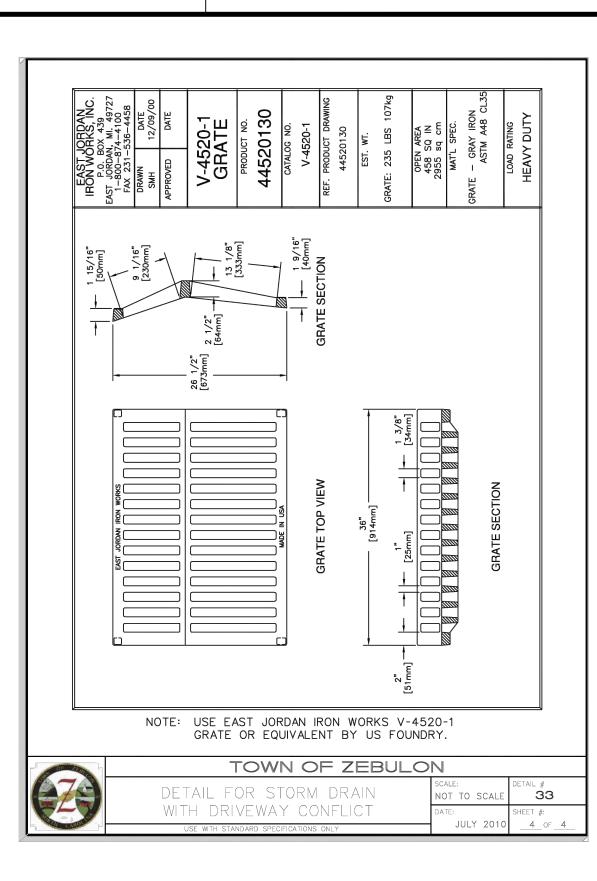


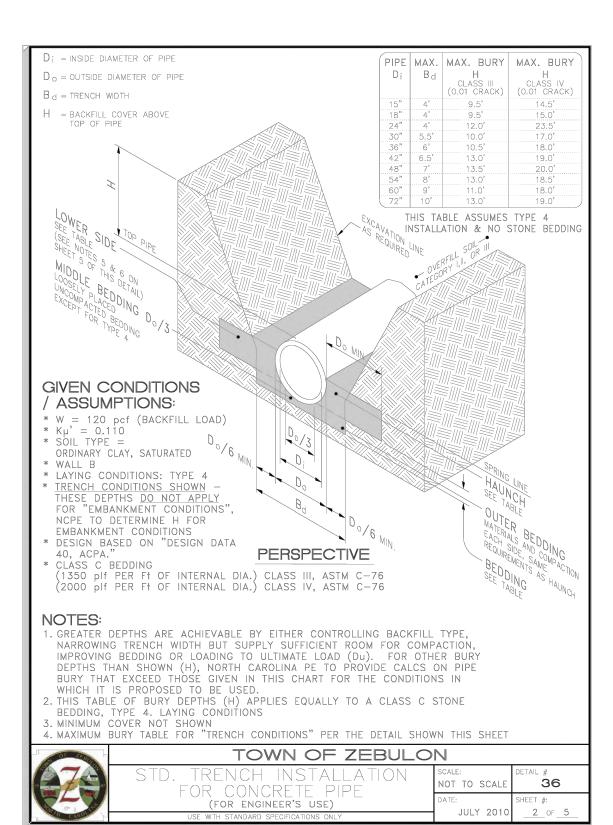


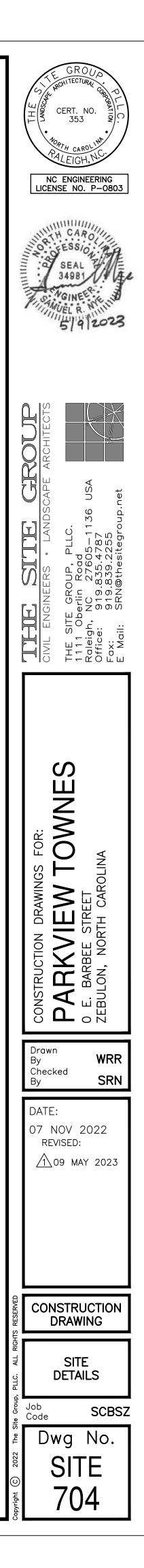




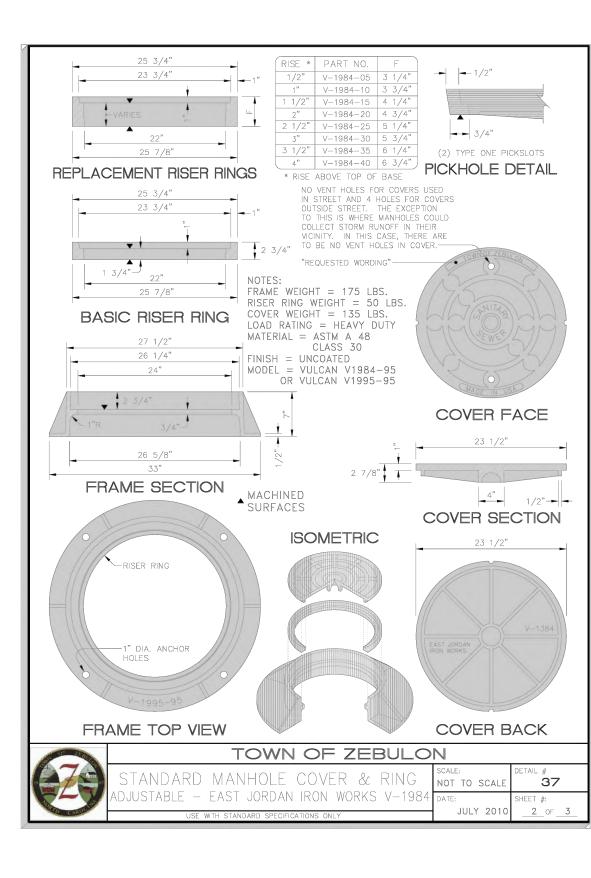


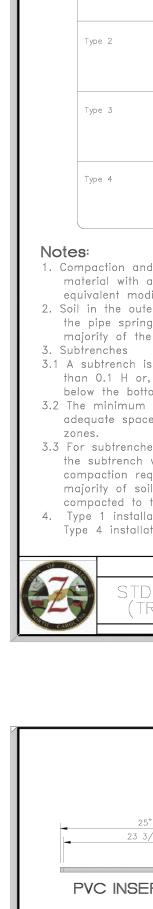












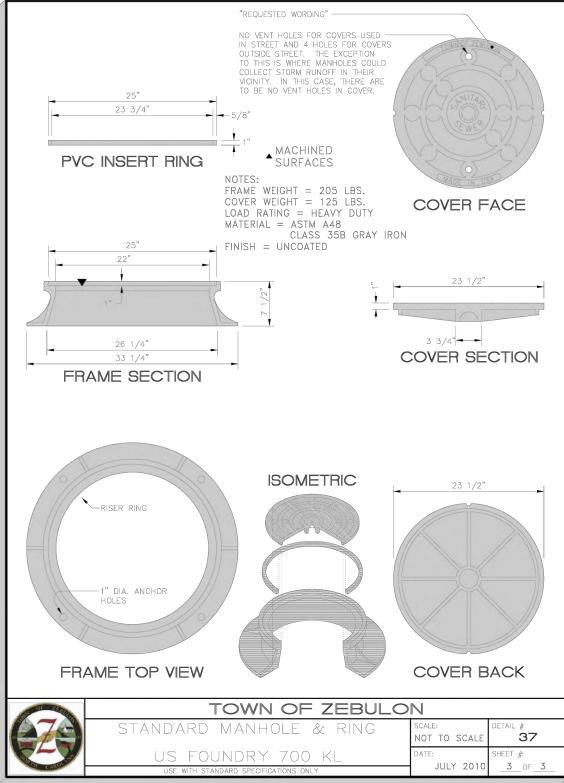


Table 2	Standard EMBANKMEI Compaction Requirer		and Minimum	
Installation Type ⁴	Bedding Thickness	Haunch and Outer Bedding	Lower Side	
Туре 1	$D_0/24$ minimum, not less than 75 mm (3"). If rock foundation,use $D_0/12$ minimum, not less than 150 mm (6").	98% Category	90% Category I, 95% Category II, or 100% Category III	
Туре 2	D _o /24 minimum, not les than 75mm (3"). If rock foundation, use D _o /12 minimum,not less than 150mm (6").	90% Category or 95% Categiry	85% Category I, 90% Category II, or 95% Category III	
Туре З	D _o /24 minimum, not less than 75 mm (3"). If rock foundation, use D _o /12 minimum, not less than 150 mm (6").	85% Category I, 90% Category II, or 95% Category III	85% Category I, 90% Category II, or 95% Category III	
Туре 4	D _o /24 minimum, not less than 75 mm (3"). If rock foundation, use D _o /12 minimum, not less than 150 mm (6").	No compaction required, except if Category III, use 85% Category III	No compaction required, except if Category III, use 85% Category III	

1. Compaction and soils symbols — i.e. "98% Category I' refers to Category 1 soil material with a minimum standard Proctor compaction of 98%. See Table 1 for equivalent modified Proctor values.

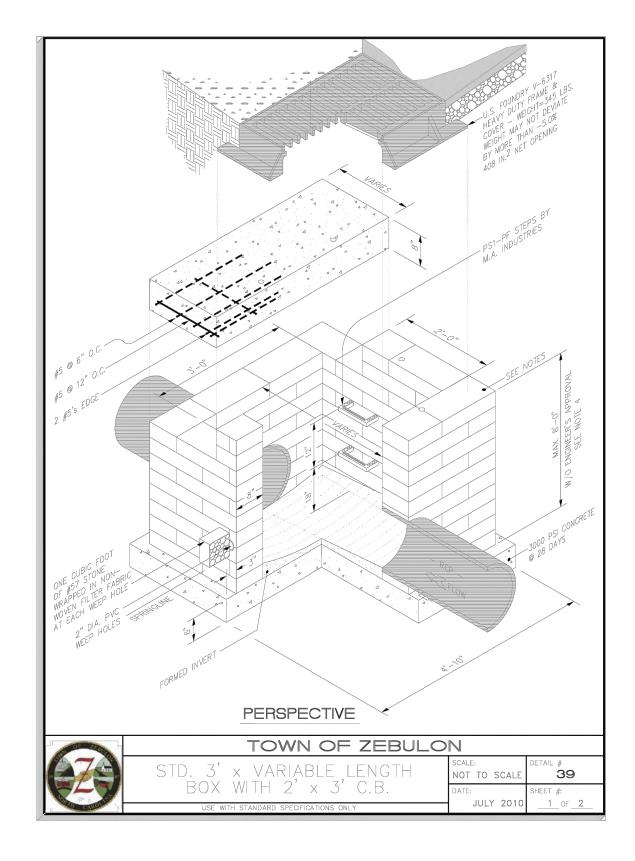
2. Soil in the outer bedding, haunch, and lower side zones, except within DO/3 from the pipe springline, shall be compacted to at least the same compaction as the majority of the soil in the overfill zone.

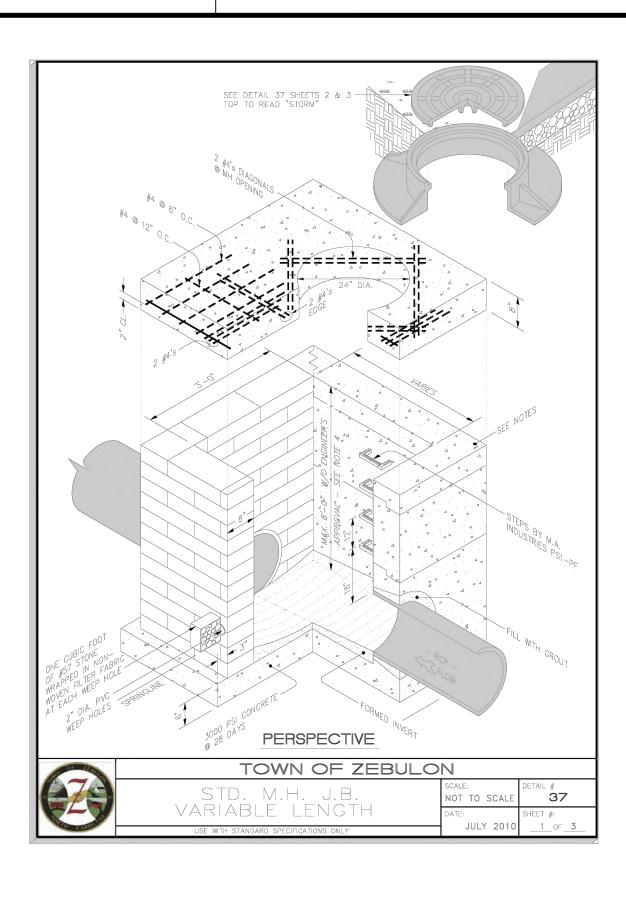
3.1 A subtrench is defined as a trench with its top below finished grade by more than 0.1 H or, for roadways, its top is at an elevation lower than 0.3 m (1') below the bottom of the pavement base material. 3.2 The minimum width of a subtrench shall be 1.33 D $_{\circ}$ or wider if required for adequate space to attain the specified compaction in the haunch and bedding

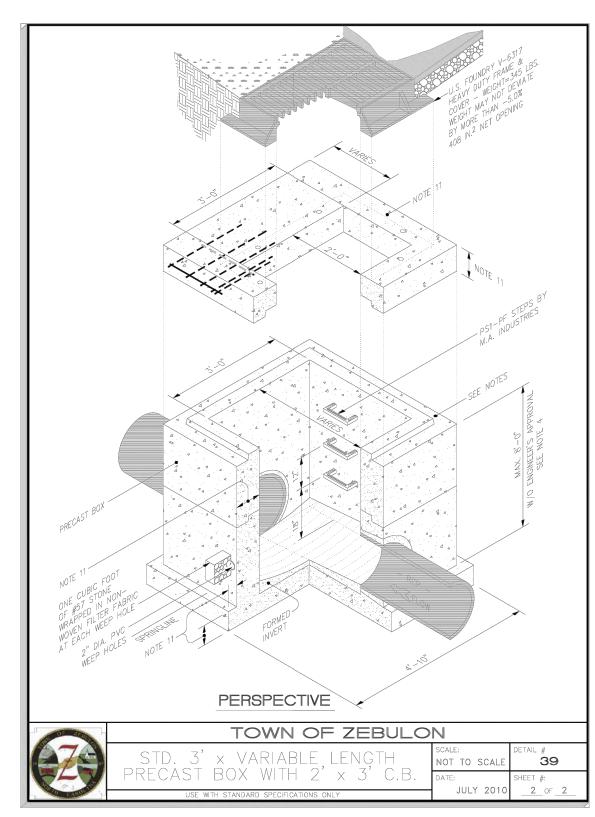
3.3 For subtrenches with wall of natural soil, any portion of the lower side zone in the subtrench wall shall be at least as firm as an equivalent soil placed to the compaction requirements specified for the lower side zone and as firm as the majority of soil in the overfill zone, or shall be removed and replaced with soil compacted to the specified level. 4. Type 1 installation = relatively high quality material & high compaction effort. Type 4 installation = little or no control over material and compaction.

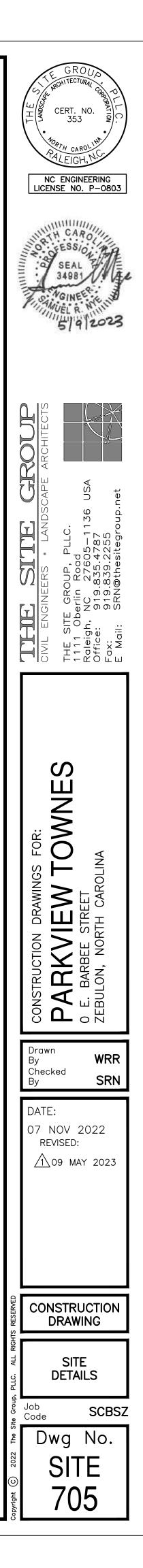
TOWN OF ZEBULON		
). IRENCH INSTALLATION	SCALE: NOT TO SCALE	detail # 36
RENCH CONDITION SHOWN)	DATE: JULY 2010	SHEET #: 4 OF 5
USE WITH STANDARD SPECIFICATIONS ONLY		

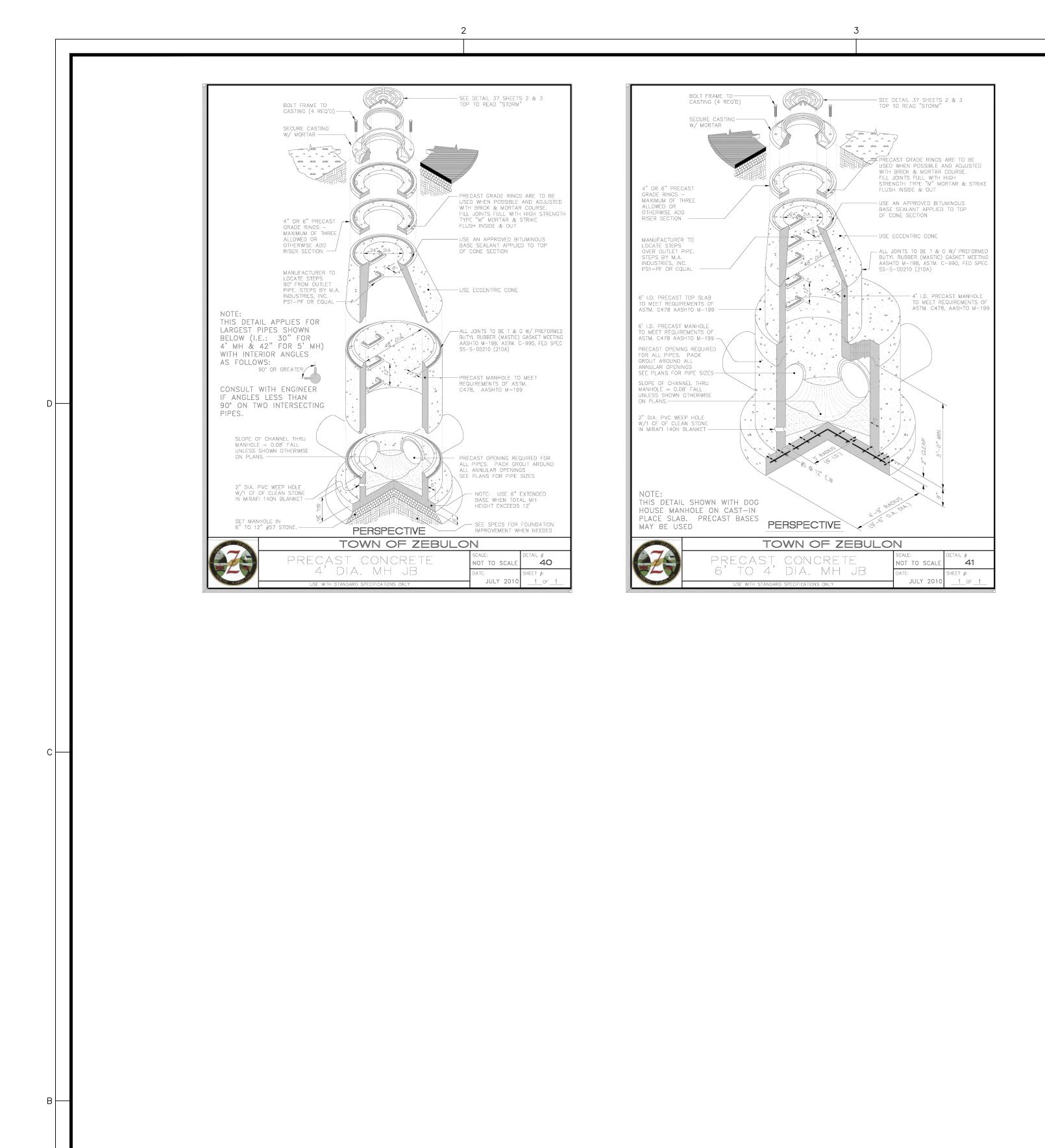
	Table 3Standard TRENCH Installations Soils and Minimum Compaction Requirements				
	Installation ⁷ Type	Bedding Thickness	Haunch Outer Bedding	Lower Side	
	Type 1	$D_o/24$ minimum, not less than 75 mm (3"). If rock foundation, use $D_o/12$ minimum, not less than 150 mm (6").	98% Category	90% Category I, 95% Category II, or 100% Category III	1
	Туре 2	$D_o/24$ minimum, not less than 75 mm (3"). If rock foundation, use $D_o/12$ minimum, not less than 150 mm (6").	90% Category or 95% Category	85% Category I, 90% Category II, or 95% Category III	
	Туре З	$D_o/24$ minimum, not less than 75 mm (3"). If rock foundation, use $D_o/12$ minimum, not less than 150 mm (6").	85% Category I, 90% Category II, or 95% Category III	85% Category I, 90% Category II, or 95% Category III	
	Type 4	$D_o/24$ minimum, not less than 75 mm (3"). If rock foundation, use $D_o/12$ minimum, not less than 150 mm (6").	No compaction required, except if Category III, use 85% Category III	No compaction required, except Category III, use 85% Category III	if
materials equivalent 2. The trench for roadw the bottor 3. Soil in bea compactio 4. The trench attain the 5. For trench of the so 6. For trench the lower for the so 7. Type 1 ir	with minin modified top eleva ays, its to n of the p dding and n as speci width sho specified walls that il in the tr walls with side shall bil in the t	s symbols – i.e. "9 num standard Proct Proctor values. tion shall be no lower payement base mate haunch zones shall ified for the majorit all be wider than sh compaction in the t are within 10 deg rench walls and low n greater than 10 d be compacted to co backfill zone. = relatively high qu = little or no contro	or compaction of ver than 0.1 H than an elevation be compacted by of soil in the hown if required haunch and be rees of vertical, er side zone ne egrees slopes t t least the san ality material & I over material	of 98%. See below finished tion of 0.3 m to at least the backfill zone for adequate dding zone. the compact ed not be co hat consist of ne compaction high compact	Table 1 for d grade or, (1') below ne same e. e space to ion or firmness onsidered. f embankment, as specified ction effort.
		TOWN	OF ZEBI		
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CAROL		USE WITH STANDARD SPECIFICA	TIONS ONLY	JUL	Y 2010 <u>5</u> of <u>5</u>

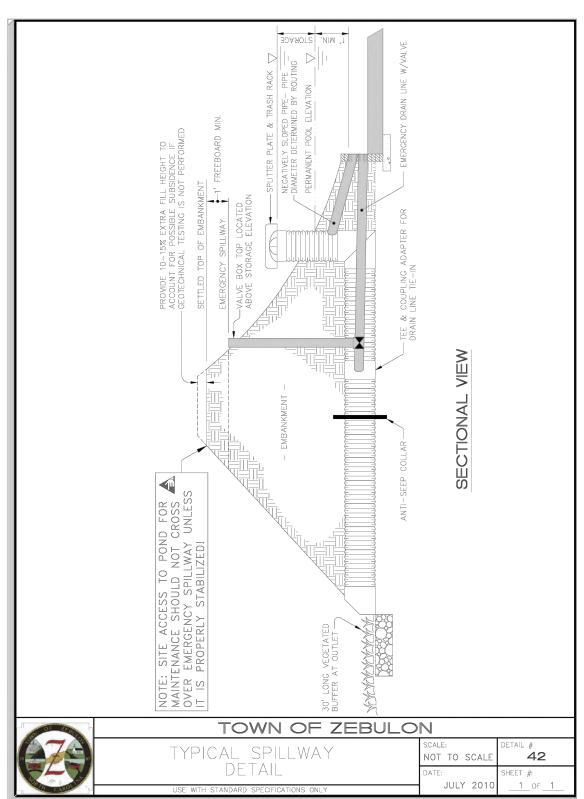




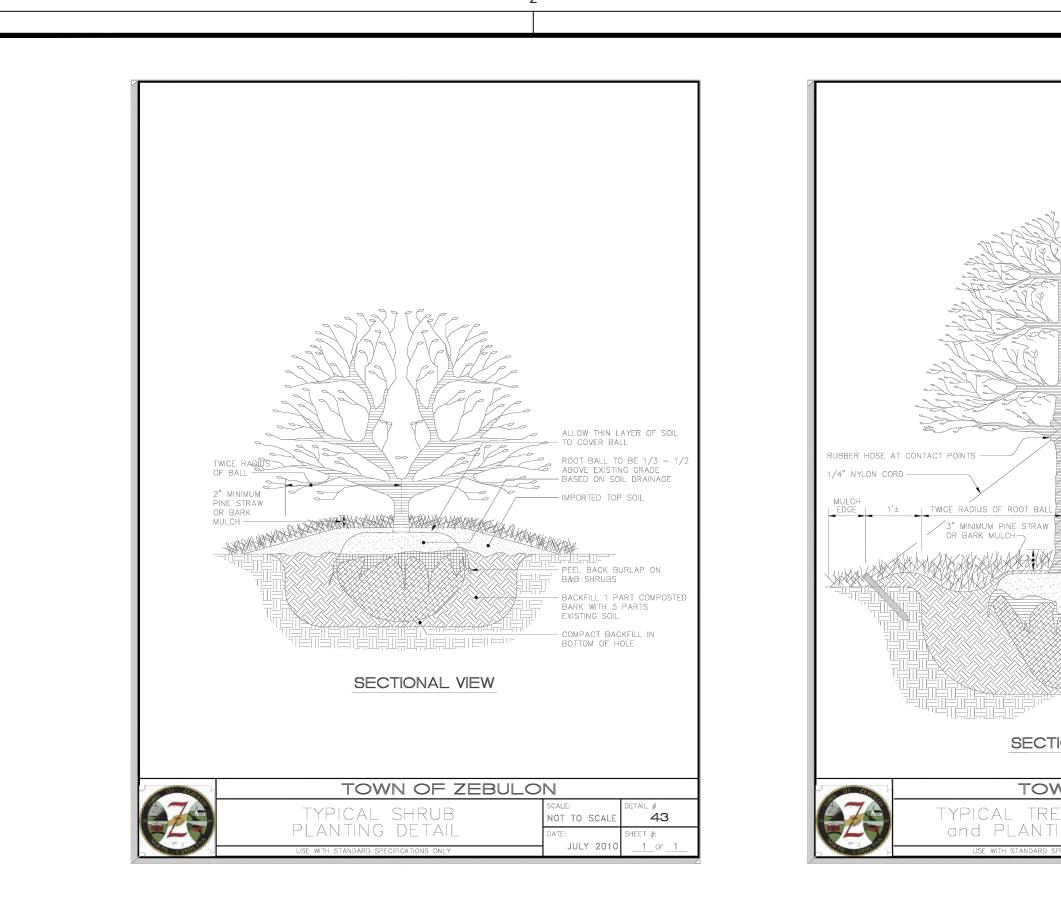


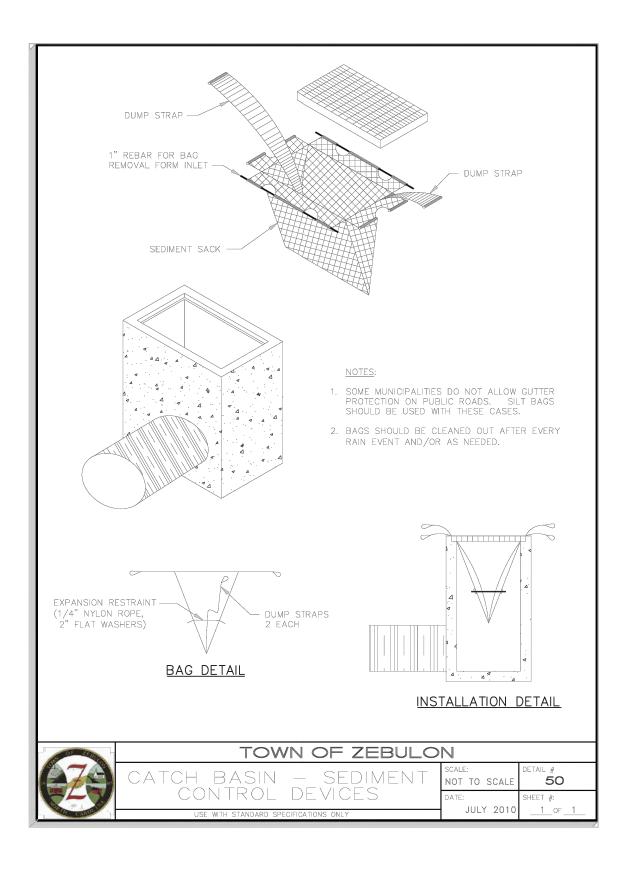


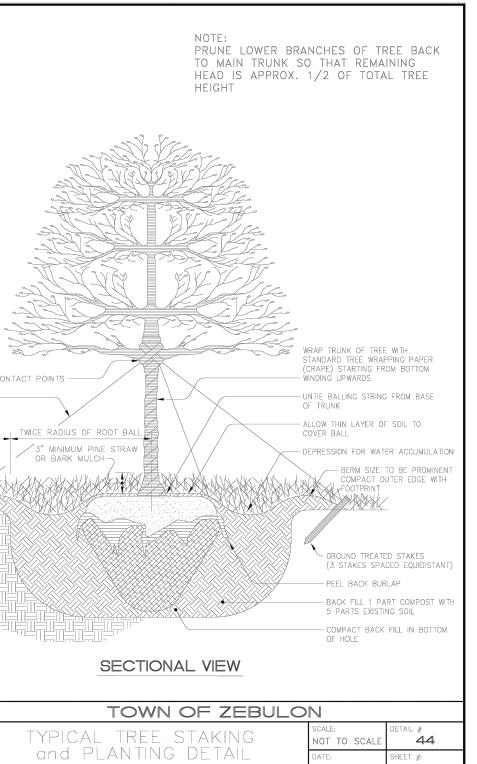




CERT. NO. BATH CAROLINA CERT. NO. BATH CAROLINA MALEIGH, NC. NC ENGINEERING LICENSE NO. P-0803
THE SITE GROUP, PLLC. THE SITE GROUP, PLLC.
construction drawings for: PARKVIEW TOWNES 0 E. BARBEE STREET 2 EBULON, NORTH CAROLINA
Drawn By WRR Checked By SRN
DATE: 07 NOV 2022 REVISED: 109 MAY 2023
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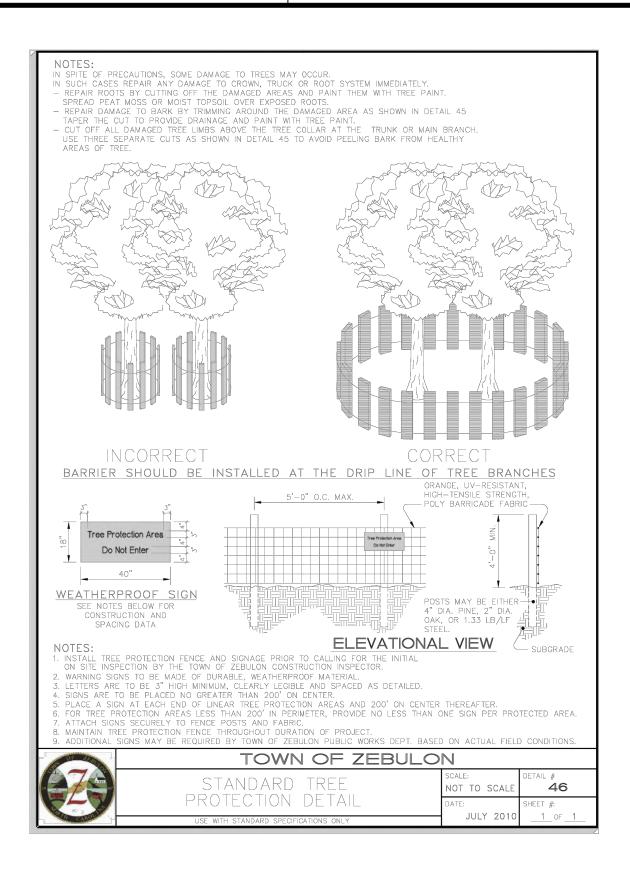


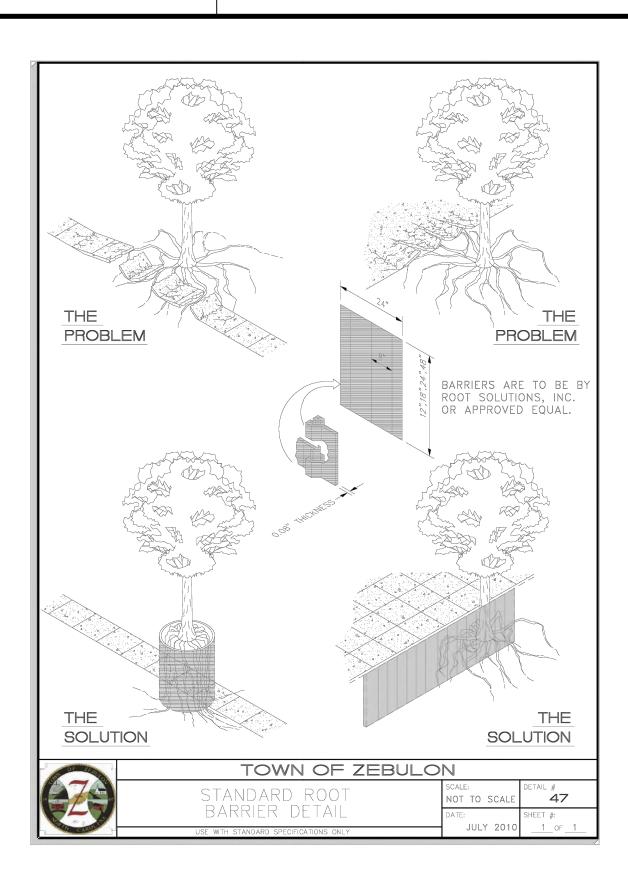




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	construction drawings for: PARKVIEW TOWNES 0 E. Barbee street ZEBULON, NORTH CAROLINA
	Drawn By WRR Checked By SRN DATE: 07 NOV 2022
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