. THE LOCATION AND SIZE OF EXISTING UTILITIES ARE SHOWN AS APPROXIMATE ONLY, THE CONTRACTOR IS RESPONSIBLE FOR HORIZONTAL AND VERTICAL LOCATION AND THE PROTECTION OF ALL PUBLIC OR PRIVATE

EVISTING CONDITIONS THAT MAY HAVE OCCURRED AFTER THE SURVEY WAS ISSUED. CONTRACTOR SHALL

- UTILITIES (SHOWN AND NOT SHOWN) WHICH LIE IN OR ADJACENT TO THE CONSTRUCTION SITE. 2. EXISTING SITE BOUNDARY AND TOPOGRAPHIC, UTILITY AND OFF-SITE ROADWAY SURVEY INFORMATION WAS TAKEN FROM SURVEY BY NCDOT, PERFORMED... THESE PLANS DO NOT ASSUME ANY LIABILITY FOR ANY EXISTING INFORMATION ROTH SHOWN AND NOT SHOWN ON THE SURVEY AND ANY CHANGES TO THE
- VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. 3. THIS SITE IS/IS NOT LOCATED WITHIN SPECIAL FLOOD HAZARD AREAS AS DETERMINED BY FEMA AND DEPICTED ON F.I.R.M. MAP 3720466700K, DATED 7/7/2014 AS BEING WITHIN ZONE "X-OTHER AREA".

GENERAL DEMOLITION NOTES

- ALL WORK TO BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL
- 2. ALL CONTRACTORS SHALL VISIT THE SITE AND OBSERVE EXISTING CONDITIONS PRIOR TO BIDDING. 3. IN GENERAL, FEATURES TO BE REMOVED UNDER THIS CONTRACT SHALL BE INDICATED ON THE DEMOLITION
- AND EROSION CONTROL PLANS: - ALL EXISTING STRUCTURES AND UTILITIES SHALL BE REMOVED AS SHOWN ON THE PLANS TO ALLOW FOR NEW CONSTRUCTION;
- ALL UTILITIES OR STRUCTURES NOT INDICATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN, AND TO BE PROTECTED FROM DAMAGE.
- THE CONTRACTOR SHALL CONTACT OWNER IN EVENT REMOVAL/MODIFICATION OF FEATURE(S) NOT PERMITTED BECOMES REQUIRED TO COMPLETE THE WORK. CONTRACTOR WILL WAIT FOR DIRECTION FROM OWNER PRIOR TO PROCEEDING.
- 4. THE CONTRACTOR SHALL PROTECT ALL MONUMENTS, IRON PINS, AND PROPERTY CORNERS DURING
- 5. PRIOR TO DEMOLISHING EXISTING STRUCTURES, MAKE AN INSPECTION FOR ANY HAZARDOUS MATERIALS. CONTACT DESIGNER IMMEDIATELY IF ANY HAZARDOUS MATERIALS ARE DISCOVERED. CAP AND REMOVE
- UTILITY SERVICES, FUEL TANKS AND SEPTIC SYSTEMS. 6. ALL MATERIAL TO BE DEMOLISHED, DEMOLITION DEBRIS AND OTHER EXCESS WASTE MATERIAL GENERATED FROM DEMOLITION ACTIVITIES SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF-SITE AS DIRECTED BY THE OWNER, IN ACCORDANCE WITH ALL LOCAL, STATE, AND
- FEDERAL LAWS, RULES, AND REGULATIONS. 7. ALL PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAW CUT TO PROVIDE A STRAIGHT AND UNIFORM JOINT FOR NEW PAVEMENT, SIDEWALK, OR CURB AND GUTTER, ETC. ANY EXISTING PAVEMENT, SIDEWALK, CURB AND GUTTER, ETC. THAT MUST BE REMOVED TO ALLOW NEW CONSTRUCTION SHALL BE REMOVED AND REPAIRED PER THE SPECIFICATIONS AND DETAILS OR TO MATCH PRE-CONSTRUCTION CONDITIONS (WHETHER OR NOT SHOWN ON THE DRAWINGS TO BE REMOVED).
- 8. TREE PROTECTION FENCING SHALL BE INSTALLED AS REQUIRED PRIOR TO BEGINNING CLEARING
- 9. CLEAR AND GRUB ALL AREAS AS SHOWN ON THE PLANS AND REQUIRED TO PERMIT INSTALLATION OF NEW CONSTRUCTION, PER SPECIFICATIONS AND DRAWINGS.
- 10. EXISTING TREES, SHRUBS OR OTHER LANDSCAPE MATERIAL NOT SHOWN TO BE REMOVED ON THE PLANS SHALL BE REMOVED ONLY AFTER RECEIVING WRITTEN APPROVAL FROM OWNER OR OWNER'S REPRESENTATIVE.
- 11. AT THE START OF GRADING INVOLVING THE LOWERING OF EXISTING GRADE AROUND A TREE OR STRIPPING OF TOPSOIL. A CLEAN SHARP VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA PRIOR TO OR AT THE SAME TIME AS SILT FENCE AND OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREE IS COMPLETE. NO STORAGE OF FILL, MATERIALS, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA.
- 12. ROOT PROTECTION ZONE EQUALS ONE FOOT OF RADIUS FOR EVERY INCH OF DIAMETER OF EXISTING TREES, OR SIX-FOOT RADIUS, WHICHEVER IS GREATER, NO DISTURBANCE ALLOWED WITHIN THE AREA. AREA MUST BE PROTECTED WITH BOTH TREE PROTECTION FENCING AND WARNING SIGNS
- 13. ALL EXISTING UNDERGROUND ELEMENTS/UTILITIES SHOWN SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO LAND DISTURBING ACTIVITIES. AT LEAST 48 HOURS PRIOR TO ANY DEMOLITION, GRADING, OR CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL CALL "81 1" FOR PROPER IDENTIFICATION OF EXISTING UTILITIES WITHIN THE SITE.
- 14. PROTECT ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC AND ALL OF THE OWNER'S FACILITIES, SHOULD DAMAGES OCCUR, NOTIFY DESIGNER AND REPAIR IMMEDIATELY AS DIRECTED
- 15. NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR

GENERAL EROSION AND SEDIMENT CONTROL NOTES

- TOTAL LIMITS OF DISTURBANCE: ± 116,656 SF/2.68 AC
- REFER TO PHASED EROSION AND SEDIMENT CONTROL PLANS FOR CLEARING LIMITS AND TEMPORARY EROSION CONTROL DEVICES TO BE INSTALLED PRIOR TO COMMENCING LAND CLEARING OR CONSTRUCTION ACTIVITIES.
- 3. CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF SITE.
- 4. ALL EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSPECTED WEEKLY AND AFTER EVERY RUNOFF PRODUCING RAINFALL EVENT, AS DIRECTED BY LOCAL AUTHORITIES. NEEDED REPAIRS WILL BE MADE
- 5. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RESEEDED, AND MULCHED AS NECESSARY TO OBTAIN A DENSE STAND OF GRASS.
- 6. CONTRACTOR SHALL PERFORM SELF-INSPECTIONS AFTER EACH PHASE OF THE PROJECT UNTIL AFTER FINAL
- STORMWATER/SITE STABILIZATION INSPECTION AND THE SITE IS APPROVED AS STABILIZED. 7. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE ANY DEWATERING NECESSARY TO CONSTRUCT THE PROJECT AS SHOW ON THE PLANS.
- 8. ALL 3:1 SLOPES SHALL BE STABILIZED WITH 'NO-MOW' NATURALIZED SEED MIX AND EROSION CONTROL
- INSTALL PERMANENT SEEDING ALONG ALL ROADSIDE DITCHES AND CHANNELS WITHIN CONSTRUCTION LIMITS OF PROJECT. ROADSIDE DITCHES AND CHANNELS SHALL BE STABILIZED DAILY UNTIL PERMANENT
- GROUND COVER IS ESTABLISHED. 10. ALL FROSION & SEDIMENT CONTROL FENCING, FINAL INLET PROTECTIONS, FINAL PIPE INLET/OUTLET. PROTECTIONS. AND TREE PROTECTION FENCING SHALL REMAIN IN PLACE UNTIL REMOVAL IS APPROVED
- AFTER FINAL STORMWATER/SITE STABILIZATION INSPECTION AND APPROVAL 11. INSTALL SLOPE EROSION CONTROL MATTING ON TOP OF ALL SIDE SLOPES ON CHANNELS, DIVERSION DITCHES, TEMPORARY SEDIMENT BASINS AND TEMPORARY SEDIMENT CATCHES, PER MANUFACTURERS
- 12. INSTALL SLOPE EROSION CONTROL MATTING AS TEMPORARY STABILIZATION DURING THE ESTABLISHMENT OF GROUNDCOVER ON ALL TEMPORARY SLOPES GREATER THAN 6:1. INSTALL PER MANUFACTURERS
- 13. MINIMUM REQUIRED SLOPE PROTECTION FOR ALL SLOPES GREATER THAN 3:1:
 - LESS THAN 10' ELEVATION CHANGE: MINIMUM JUTE NETTING. GREATER THAN 10' ELEVATION CHANGE: MINIMUM NORTH AMERICAN GREEN \$75 EROSION CONTROL MATTING OR EQUIVALENT.
- 14. MAXIMUM GRADED SLOPE SHALL NOT EXCEED 2:1.
- 15. TEMPORARY CONSTRUCTION FENCE SHALL BE USED AS SHOWN ON THE PLANS TO INDICATE THE LIMITS OF DISTURBANCE AND/OR TO SECURE THE CONSTRUCTION SITE AS NECESSARY.
- 16. ALL STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER STOPPAGE OF WORK EACH
- 17. INITIAL STORMWATER INLET PROTECTION FOR NEW STORM STRUCTURES SHALL BE ROCK AND GRAVEL INLET
- 18. ALL ROCK AND GRAVEL INLET PROTECTIONS FOR STRUCTURES WITHIN PAVED AREAS SHALL BE CONVERTED TO SILT BAG INLET PROTECTION TYPE DURING BASE PREPARATIONS FOR CURBING AND PAVEMENT. 19 IF THE SAME PERSON CONDUCTS THE LAND-DISTURBING ACTIVITY & ANY RELATED BORROW OR WASTE ACTIVITY. THE RELATED BORROW OR WASTE ACTIVITY SHALL CONSTITUTE PART OF THE LAND-DISTURBING ACTIVITY UNLESS THE BORROW OR WASTE ACTIVITY IS REGULATED UNDER THE MINING ACT OF 1971, OR IS A LANDFILL REGULATED BY THE DIVISION OF WASTE MANAGEMENT. IF THE LAND-DISTURBING ACTIVITY AND ANY RELATED BORROW OR WASTE ACTIVITY ARE NOT CONDUCTED BY THE SAME PERSON. THEY SHALL BE CONSIDERED SEPARATE LAND-DISTURBING ACTIVITIES AND MUST BE PERMITTED EITHER THROUGH THE
- SEDIMENTATION POLLUTION CONTROL ACT AS A ONE-USE BORROW SITE OR THROUGH THE MINING ACT. 20. SUFFICIENT EROSION CONTROL PRACTICES MUST BE INSTALLED AND MAINTAINED TO RETAIN SEDIMENT WITHIN THE BOUNDARIES OF THE SITE.
- 21. ALL NCDEQ INSPECTIONS SHALL BE SCHEDULED ONLINE AT: HTTPS://EDOCS.DEQ.NC.GOV/FORMS/NONDISCHARGE-BRANCH-SUBMITTAL-FORM

- ALL CONSTRUCTION, UNLESS SPECIFICALLY EXEMPTED BY STATE OR FEDERAL LAW, SHALL BE IN ACCORDANCE WITH THE CURRENT CITY OF GREENVILLE AND/OR NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) ROAD AND BRIDGE STANDARDS AND SPECIFICATION, THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY (NCDEQ) STORMWATER DESIGN MANUAL, THE NORTH CAROLINA DEPARTMENT OF ENERGY, MINERAL AND LAND RESOURCES (NCDEMLR) EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, THE FINAL GEOTECHNICAL REPORT, AND GENERAL DESIGN STANDARDS. IN THE CASE OF A CONFLICT BETWEEN THE REQUIREMENTS, THE MORE RESTRICTIVE STANDARD
- THE PROJECT LIMITS WILL BE FULLY COMPLIANT WITH THE NORTH CAROLINA ACCESSIBILITY CODES (THE AN APPROVED STATEMENT FROM THE SITE ENGINEER. SURVEYOR, OR ARCHITECT VERIFIES THAT THE SITE CONDITIONS EXIST WHERE THE TOPOGRAPHY OF THE SITE IS EXTREME AND ONLY ALTERNATE METHODS OF COMPLIANCE ARE POSSIBLE.
- 3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL JOBSITE SAFETY, INCLUDING BUT NOT LIMITED TO AND OSHA SAFETY STANDARDS. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO ALL CONSTRUCTION PERSONNEL AND PUBLIC SHALL BE PROTECTED FROM INJURY, AND THE ADJOINING PROPERTY PROTECTED FROM DAMAGE

- 7. ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS, SPECIFICATIONS, AND THE ACTUAL FIELD CONDITIONS OR ANY INCONSISTENCIES OR AMBIGUITIES IN DRAWINGS OR SPECIFICATIONS SHALL BE IMMEDIATELY REPORTED TO THE DESIGNER, IN WRITING, WHO SHALL PROMPTLY ADDRESS SUCH INCONSISTENCIES OR AMBIGUITIES. WORK DONE BY THE CONTRACTOR AFTER THE DISCOVERY OS SUCH
- PRIVATE) PRIOR TO WORKING IN THESE AREAS.
- COORDINATED WITH THE RESPECTIVE UTILITY.
- DETAILS OF SUCH DEPARTURES AND REASONS THEREOF SHALL BE PROVIDED TO THE DESIGNER AND OWNER FOR REVIEW. NO DEPARTURES FROM THE CONTRACT DOCUMENT SHALL BE MADE WITHOUT WRITTEN
- 13. THE CONTRACTOR IS RESPONSIBLE FOR THE SCHEDULING OF, AND FEES RELATED TO, ALL INSPECTIONS,
- 14. THE ENGINEER/ARCHITECT/LANDSCAPE ARCHITECT/OWNER DISCLAIMS ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
- 15. CONTRACTOR IS RESPONSIBLE FOR OBTAINING/ MAINTAINING PROPER SECURITY CREDENTIALS, AS REQUIRED, TO ALLOW FOR WORK ON SITE.
- THE OWNER AND THE PUBLIC. THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN AT ALL TIMES DURING THE PROGRESS OR TEMPORARY SUSPENSION OF WORK, SUITABLE BARRIERS, FENCES, SIGNS, OR SAFETY OF THE PUBLIC, AS WELL AS THOSE ENGAGED IN THE CONSTRUCTION WORK, CONSTRUCTION SIGNING SHALL BE IN ACCORDANCE WITH ALL APPLICABLE SAFETY STANDARDS. CONTRACTOR WILL BE RESPONSIBLE FOR ONSITE DUST CONTROL.
- ETC. THAT MAY BE REQUIRED. THE CONTRACTOR SHALL INSTALL SUCH STANDARD APPURTENANCES AS REQUIRED TO CLOSELY FOLLOW THE GRADES AND ALIGNMENTS DEPICTED ON THE PLANS.
- DIGITAL (CADD) FILE PROVIDED BY THE DESIGNER. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES FOUND BETWEEN THE DIGITAL FILE AND THE CRITICAL STAKING DIMENSIONS SHOWN ON THE PLANS (I.E. PAVEMENT WIDTHS, CURB RADII, BUILDING SETBACKS, BUILDING
- 19. BURYING CONSTRUCTION WASTE ON-SITE IS PROHIBITED.

ALLOW ADEQUATE ACCESS TO PARKING LOT(S)

- CONTRACTOR SHALL ARRANGE THE MEETING WITH THE CITY OF GREENVILLE STAFF, THE DESIGNER, AND THE
- 24. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB AND FACE OF BUILDING WALL, UNLESS OTHERWISE NOTED.
- 25. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS SHOWN. CONTACT THE
- 26. GENERAL BUILDING DIMENSIONS ARE SHOW ON THE PLANS. SEE ARCHITECTURAL DRAWINGS FOR SPECIFIC
- 27. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL SOIL TESTING IS PERFORMED AND THE RESULTS
- 28. TESTING OF MATERIAL REQUIRED FOR THE CONSTRUCTION OF THE PARKING IMPROVEMENTS SHALL BE PERFORMED BY AN APPROVED AGENCY FOR TESTING MATERIALS. THE NOMINATION OF THE TESTING LAB AND THE PAYMENT OF EACH TESTING SERVICE SHALL BE MADE BY THE OWNER. IT SHALL BE THE
- 29. ALL PAVEMENT SUB GRADES SHALL BE SCARIFIED TO A DEPTH OF 8 INCHES AND COMPACTED TO A OTHERWISE SHOWN ON THE CONSTRUCTION PLANS OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER. FILI HALL BE PLACED AND COMPACTED IN MAXIMUM 8 INCH LIFTS. IN AREAS WHERE ROCK IS ENCOUNTERED AT FINAL SUB GRADE ELEVATION, THE EXPOSED ROCK SHALL BE TOPPED WITH A LEVELING COURSE OF SANDY
- 30. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". ALL INTERNAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC, EXCEPT PARKING STALL
- STRIPING WHICH SHALL BE PAINTED 4" YELLOW. 31. ALL CURB OUTSIDE OF THE PUBLIC RIGHT-OF-WAY SHALL BE 24" CURB AND GUTTER.
- 34. ALL CURB JOINTS SHALL EXTEND THROUGH THE CURB. MINIMUM LENGTH OF OFFSET JOINTS AT RADIUS POINTS IS 1.5 FEET. ALL JOINTS SHALL BE SEALED WITH JOINT SEALANT.
- 35. CONTRACTOR SHALL SUBMIT SCALED PLANS OF ALL SCORING/JOINTS FOR APPROVAL BY ARCHITECT 30
- 36. ALL ADA RAMPING, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO THE CURRENT ADA REQUIREMENTS AND THE CURRENT VERSION OF ANSI A117.1.
- VERSION OF ANSI A117.1.
- REQUIRED TO BE COMPLIANT WITH THE PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG), CURRENT ADA STANDARDS FOR ACCESSIBLE DESIGN, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND THE LATEST VERSION OF THE NC BUILDING CODE.
- PAVEMENT SECTION REQUIREMENT. THE CURRENT GEOTECHNICAL REPORT SHALL OVER-RIDE ALL TYPICAL
- 40. TRAFFIC CONTROL ON PUBLIC STREETS IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE IN CONFORMANCE WITH THESE PLANS, THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", AND AS FURTHER DIRECTED BY THE CITY OF GREENVILLE AND NCDOT.
- APPEARANCE, AND SIZE ONLY. ALL RETAINING WALLS MUST BE DESIGNED BY A LICENSED STRUCTURAL
- 42. NO STRUCTURAL COMPONENT OF ANY RETAINING WALL CAN BE LOCATED WITHIN A RIGHT-OF-WAY OR
- WAIVE ANY CLAIM FOR ADDITIONAL COSTS RELATED TO SUBSTITUTION OF ALTERNATE EQUIPMENT. 44. ALL SIGNAGE ASSOCIATED WITH THE PUBLIC STREET SYSTEM SHALL ADHERE TO MUTCD STANDARDS AND

- GENERAL SITE NOTES
- CURRENT VERSION OF ANSI A117.1 AND CHAPTER 11 OF THE NCBC) UNLESS AND EXCEPT IN AREAS WHERE
- TRENCH SAFETY, DURING ALL PHASES OF CONSTRUCTION. ALL WORK SHALL COMPLY WITH ALL STATE, LOCAL
- 4. NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR
- 5. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING OR CONTAINING ALL REQUIRED PERMITS AND APPROVALS PRIOR TO COMMENCING CONSTRUCTION.
- 6. WATER, FIRE PROTECTION, ELECTRICAL, AND SEWER SERVICES MUST BE MAINTAINED FOR THE DURATION OF THE PROJECT, WITH THE EXCEPTION OF COORDINATED TIE-INS.
- DISCREPANCIES, INCONSISTENCIES, OR AMBIGUITIES SHALL BE DONE AT THE CONTRACTORS RISK.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SETBACKS, EASEMENTS, AND DIMENSIONS SHOWN HEREIN BEFORE BEGINNING CONSTRUCTION.
- 9. THE CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES, AND RIGHT-OF-WAY'S (PUBLIC OR
- 10. ACCESS TO UTILITIES, FIRE HYDRANTS, STREET LIGHTING, ETC., SHALL REMAIN UNDISTURBED, UNLESS
- 11. ALL AREAS OUTSIDE THE "LIMITS OF CONSTRUCTION" SHALL REMAIN UNDISTURBED AT ALL TIMES. 12. IF DEPARTURES FROM THE SPECIFICATIONS OR DRAWINGS ARE DEEMED NECESSARY BY THE CONTRACTOR,
- CERTIFICATIONS, EQUIPMENT, ETC., THAT MAY BE REQUIRED.
- 16. THE CONTRACTOR SHALL PLAN AND CONSTRUCT WORK SO AS TO CAUSE MINIMUM INCONVENIENCE TO OTHER ADEQUATE PROTECTION INCLUDING FLAG MEN AND WATCHMEN AS NECESSARY TO INSURE THE
- 17. THE CONTRACTOR SHALL NOTE THAT THE DRAWINGS MAY NOT SHOW EVERY OFFSET, TRANSITION, FITTING,
- 18. CONSTRUCTION STAKE OUT IS THE RESPONSIBILITY OF THE CONTRACTOR AND MAY BE PERFORMED USING A FOOTPRINTS ETC.). ANY MODIFICATIONS MADE BY OTHERS TO THE DIGITAL FILE PROVIDED BY TRANSYSTEMS
- 20. NO PART OF THE DISTURBED SITE MAY BE LEFT UNCOVERED OR UNSTABILIZED ONCE CONSTRUCTION IS
- COMPLETE
- 21. PLANT MATERIAL MUST BE NATIVE TO THE CLIMATE AND AREA.
- 22. TWELVE MONTH WARRANTY IS REQUIRED FOR ALL PLANTS AND MATERIALS 23. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD PRIOR TO THE START OF CONSTRUCTION. THE
- DESIGNER IF ANY DISCREPANCIES OCCUR.
- FORWARDED TO THE ENGINEER AND OWNER.
- CONTRACTOR'S RESPONSIBILITY TO SHOW BY STANDARD TESTING PROCEDURES THAT THE WORK CONSTRUCTED MEETS THE REQUIREMENTS OF THE NCDOT AND CITY OF GREENVILLE'S SPECIFICATIONS.
- CLAY OR CLAYEY SAND (P.I. BETWEEN 4 AND 15) AS NEEDED TO PROVIDE A SMOOTH SURFACE FOR PAVING.
- 32. WHERE SIDEWALKS OR WALKWAYS ABUT PARKING SPACES, THEY ARE TO BE A MINIMUM OF SIX (6.0) FEET WIDE (DIMENSIONED FROM BACK OF CURB TO BACK OF WALK) WITH RAMPS PROVIDED AT INTERVALS TO
- 33. WHERE PROPOSED CURB AND GUTTER TIES TO EXISTING CURB OR CURB AND CUTTER, A TRANSITION OF 10' SHALL BE MADE TO CONFORM TO THE EXISTING HEIGHTS AND SHAPES.
- DAYS MINIMUM PRIOR TO INSTALLATION.
- 37. LANDINGS ARE REQUIRED AT THE TOP AND BOTTOM OF ALL STAIRS IN ACCORDANCE WITH THE CURRENT 38. TEMPORARY AND PERMANENT PEDESTRIAN EXISTING ROUTES AND ALTERNATE PEDESTRIAN ROUTES WILL BE
- 39. TYPICAL PAVEMENT SECTION DETAILS ARE SHOWN WITHIN THIS SET AND INTENDED TO BE A MINIMUM
- PAVEMENT SECTIONS SHOWN, IF THE GEOTECHNICAL ENGINEER DEEMS A HEAVIER SECTION IS REQUIRED.
- 41 ANY REFERENCE TO A RETAINING WALL WITHIN THE PLAN SET IS FOR APPROVAL PERTAINING TO LOCATION. ENGINEER IN ACCORDANCE WITH THE CITY OF GREENVILLE DESIGN AND CONSTRUCTION ORDINANCES.
- 43. EQUIPMENT AND PRODUCTS OTHER THAN SPECIFIED MAY BE USED PROVIDED APPROVAL HAS BEEN OBTAINED FROM THE OWNER IN WRITING PRIOR TO ORDERING OR INSTALLATION. THE CONTRACTOR SHALL

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Call before you dig. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE (ACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGH BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.





ALLEN ROAD ALLEN ROAD (U-5875

GREENVILLE, NC., 27834 PREPARED FOR: CITY OF GREENVILLE

200 West Fifth Street

Greenville, NC 27834

CONSTRUCTION DRAWINGS

			DATE		
PROJECT:					
ı	SSUE:	. 30% CONCEPTUAL PLAN	. 6/20/2024		
		. 65% DD PLAN	. 11/11/202		
		. 90% CD PLAN	. 11/14/202		
REVIS	IONS:		'		
			1.		
PROJ. MGR:		MFL			
DRAWN	BY:	JTG			
CHECKE	D BY:	MFL			
1					

GENERAL NOTES,

LEGEND & ABRV'S

ACCORDANCE WITH ALL CURRENT CITY OF GREENVILLE, NC AND NCDOT STANDARDS AND SPECIFICATIONS

ALL CONSTRUCTION SHALL BE IN

LEGEND **PROPOSED PROPOSED EXISTING** DESCRIPTION **DESCRIPTION** DESCRIPTION SYMBOL SYMBOL SYMBOL **SYMBOL** LINE TYPE MB PROPERTY LINE MAILBOX SILT FENCE OUTLET RIGHT OF WAY BOLLARD WATTLE **EASEMENT** FLAG POLE - - - - - - - - - -BUFFFR BLOCK AND GRAVEL INLET PROTECTION SIGN HARDWARE CLOTH AND GRAVEL INLET PROTECTION BIKE RACK [] I I LIMITS OF DISTURBANCE SILT SACK INLET PROTECTION FILTER TRUNCATED DOME LIMITS OF CONSTRUCTION — DEMOLITION DESIGNATION - X - X - X - X - X - X - X SILT SOCK INLET PROTECTION ADA MARKING HORSESHOE PIPE PROTECTION FENCE DIRECTIONAL ARROWS **CHAINLINK FENCE** RIP RAP APRON WOOD FENCE STOP BAR GUARDRAIL CONSTRUCTION ENTRANCE ACCESSIBLE ROUTE PARKING COUNT CONSTRUCTION ENTRANCE MINOR CONTOUR EXISTING CONIFER TREE WITH EXIT WASH RACK MAJOR CONTOUR SWALE CENTERLINE DEWATERING BAG **EXISTING DECIDUOUS** CONCRETE WASHOUT **★** FG 1.00 SPOT ELEVATION GRADE ARROW STORM MANHOLE STORM JUNCTION BOX FIBER OPTIC **PROPOSED** ___ __ FO ___ _ DESCRIPTION PATTERN PATTERN STORM CLEANOUT _ __ CATV __ _ CURB INLET GRAVEL DOUBLE CURB INLET TFI FPHONI CONCRETE DROP INLET **HEAVY DUTY CONCRETE** YARD INLET — SSFM — SANITARY SEWER FORCEMAIN SANITARY SEWER GRAVITY MAIN-LIGHT DUTY CONCRETE FLARED END SECTION STORM STRUCTURE TAG ASPHALT WATER LINE \bigcirc POWER POLE **HEAVY DUTY ASPHALT GUY POLE** CHILLED WATER — — CHWR— — LIGHT DUTY ASPHALT GUY WIRE PERVIOUS LIGHT POLE BRICK PAVE TEMPORARY CONSTRUCTION EASEMENT TRANSFORMER DIRT ROAD TEMPORARY CONSTRUCTION FENCE ELECTRIC HANDHOLE EARTH **TELEPHONE** PEDESTAL SILT **CABLE BOX FENCE** SUPER SILT WETLANDS FIBER OPTIC MARKER Ψ Ψ Ψ FENCE FIBER OPTIC TREE PROTECTION FENCE REINFORCING MAT LINING PEDESTAL COMBINATION TREE GAS MARKER PROTECTION/SILT FENCE TIME OF CONCENTRATION ———> —— GAS METER TEMPORARY DIVERSION DITCH \longrightarrow TD \longrightarrow \longrightarrow GAS VALVE — TSĐ→> — TEMPORARY SLOPE DRAIN SEWER MANHOLE SEWER CLEANOUT • • • GREASE TRAP SEWER STRUCTURE WATER VALVE POST INDICATOR VALVE WATER METER FIRE HYDRANT (bfp) BACKFLOW PREVENTER エマとこ BENDS TEE CROSS CAP REDUCER IRRIGATION CONTROL VALVE SPRINKLER HEAD ○ fdc FIRE DEPARTMENT CONNECTION THRUST BLOCKING

AIR RELEASE VALVE

BLOW OFF VALVE

O bo

LIST OF ABBREVIATIONS

APPROX **APPROXIMATE** NORTH ANGLE DEVIATION NAD NORTH AMERICAN DATUM ADA AMERICAN DISABILITIES ACT NAVD NORTH AMERICAN VERTICAL DATUM Ac OR AC ACRE NCDEQ NC DEPARTMENT OF ENVIRONMENTAL **BOUNDARY** Bndy QUALITY **BOTTOM OF CURB** NCDOT NC DEPARTMENT OF TRANSPORTATION **BACK OF CURB** BOC NIC NOT IN CONTRACT BOW **BACK OF WALK** NTS NOT TO SCALE BM **BOOK OF MAPS** O/S OFFSET BPE **BUILDING PAD ELEVATION** POINT OF INTERSECTION BR **BOTTOM OF RAMP** Pg OR PG PAGE BS **BOTTOM OF STAIR** BVCE PROPERTY LINE BEGIN VERTICAL CURVE ELEVATION POC POINT OF CONCENTRATION **BEGIN VERTICAL CURVE STATION** BVCS POD POINT OF DISCHARGE BW **BOTTOM OF WALL** PREC PRECAST C&G CURB AND GUTTER PROP PROPOSED CB CATCH BASIN PVC POLY(VINYL CHLORIDE) CURB INLET PVI POINT OF VERTICAL INFLECTION CAST-IN-PLACE POINT OF INTERSECTION **CUBIC FEET PER SECOND** POINT OF TANGENCY **CENTER LINE PUMP STATION CLEANOUT** POLY VINYL-CHLORIDE PIPE CONCRETE Conc. QUANTITY CONN CONNECTION RADIUS Cu Ft (cf) CUBIC FOOT RCP REINFORCED CONCRETE PIPE Cu Yd (cy) CUBIC YARD ROOFDRAIN DRAINAGE AREA RGRCP RUBBER GASKET RCP DEED BOOK DB ROW RIGHT-OF-WAY dbh DIAMETER AT BREAST HEIGHT SOUTH DG DESIGN GROUND **SURFACE AREA** DRAIN INLET SANITARY SEWER **DUCTILE IRON PIPE** DIP SCH SCHEDULE DRAIN MANHOLE SD STORM DRAIN DOJ **DEPARTMENT OF JUSTICE** SDR STANDARD DIMENSION RATIO D/S DOWNSTREAM SILT FENCE DWG DRAWING SHLD SHOULDER DWL DOUBLE WHITE LINE DYL DOUBLE YELLOW LINE SSF **SUPER SILT FENCE** SSMH SANITARY SEWER MANHOLE ECM **EXISTING CONCRETE MONUMENT** STA STATION EΙΑ **EXISTING IRON AXLE** STD STANDARD EIP EXISTING IRON PIN STRM STORM EIR **EXISTING IRON ROD** STORM MANHOLE SMH **EXISTING GRADE** SQFT (sf) SQUARE FOOT ELEV, EL ELEVATION SQYD (sy) SQUARE YARD ELIP **ELLIPTICAL** SINGLE WHITE LINE EOA **EDGE OF ASPHALT** SYL SINGLE YELLOW LINE EOP **EDGE OF PAVEMENT** THICKNESS ESC **EROSION AND SEDIMENT CONTROL** TBA TO BE ABANDONED EVCE END VERTICAL CURVE ELEVATION TBD TO BE DETERMINED **EVCS** END VERTICAL CURVE STATION TBR TO BE REMOVED EW **END OF WALL** TOP OF CURB EX OR EXIST EXISTING TOC TIME OF CONCENTRATION FDC FIRE DEPARTMENT CONNECTION TPF TREE PROTECTION FENCE FES FLARED END SECTION TIP TRENCH INLET PROTECTION FFE FINISHED FLOOR ELEVATION TR TOP OF RAMP FINISHED GRADE TS TOP OF STAIR FIRE HYDRANT TEMPORARY SEDIMENT SKIMMER BASIN **TSSB** FIRE HYDRANT ASSEMBLY TST TEMPORARY SEDIMENT TRAP FACE OF CURB TW **TOP OF WALL** TYP TYPICAL **GENERAL STATUTE UPSTREAM GATE VALVE** VERT VERTICAL HC HANDICAPPED **VERTICAL CURVE** VC HDPE HIGH DENSITY POLYETHYLENE PIPE YARD INLET HGL HYDRAULIC GRADE LINE WEST HORIZ HORIZONTAL WIDE OR WIDTH HP HIGH POINT **INSIDE DIAMETER** NOTE: THIS LIST MAY NOT BE INCLUSIVE OF ALL IDENTIFICATION ABBREVIATIONS USED WITHIN THE CONSTRUCTION DRAWING INVERT SET. IF THE CONTRACTOR IS UNSURE OF AN ABBREVIATION OR IRON PIPE FOUND TERMINOLOGY USED WITHIN THIS CONSTRUCTION SET. IT IS LENGTH THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE POUNDS LANDSCAPE ARCHITECT FOR CLARIFICATION. THE LANDSCAPE LOW POINT ARCHITECT OR THE OWNER WILL NOT BE HELD LIABLE FOR WEIR LENGTH MISINTERPRETATION OF THE CONSTRUCTION PLAN SET BY MAXIMUM THE GENERAL CONTRACTOR OR ANY OF HIS MANHOLE SUB-CONTRACTORS. MINIMUM

LANDSCAPE DEMOLITION NOTES

- 1. TREE PROTECTION FENCING SHALL BE INSTALLED AS REQUIRED PRIOR TO BEGINNING CLEARING OPERATIONS.
- 2. EXISTING TREES, SHRUBS OR OTHER LANDSCAPE MATERIAL NOT SHOWN TO BE REMOVED ON THE PLANS SHALL BE REMOVED ONLY AFTER RECEIVING WRITTEN APPROVAL FROM OWNER OR OWNER'S REPRESENTATIVE.
- 3. AT THE START OF GRADING INVOLVING THE LOWERING OF EXISTING GRADE AROUND A TREE OR STRIPPING OF TOPSOIL, A CLEAN SHARP VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA PRIOR TO OR AT THE SAME TIME AS SILT FENCE AND OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREE IS COMPLETE. NO STORAGE OF FILL, MATERIALS, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA.
- 4. ROOT PROTECTION ZONE EQUALS ONE FOOT OF RADIUS FOR EVERY INCH OF DIAMETER OF EXISTING TREES, OR SIX-FOOT RADIUS, WHICHEVER IS GREATER, NO DISTURBANCE ALLOWED WITHIN THE AREA. AREA MUST BE PROTECTED WITH BOTH TREE PROTECTION FENCING AND WARNING SIGNS.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CURRENT CITY OF GREENVILLE, NC AND NCDOT STANDARDS AND SPECIFICATIONS

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CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.





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ALLEN ROAD PROJECT

ALLEN ROAD (U-5875), GREENVILLE, NC., 27834

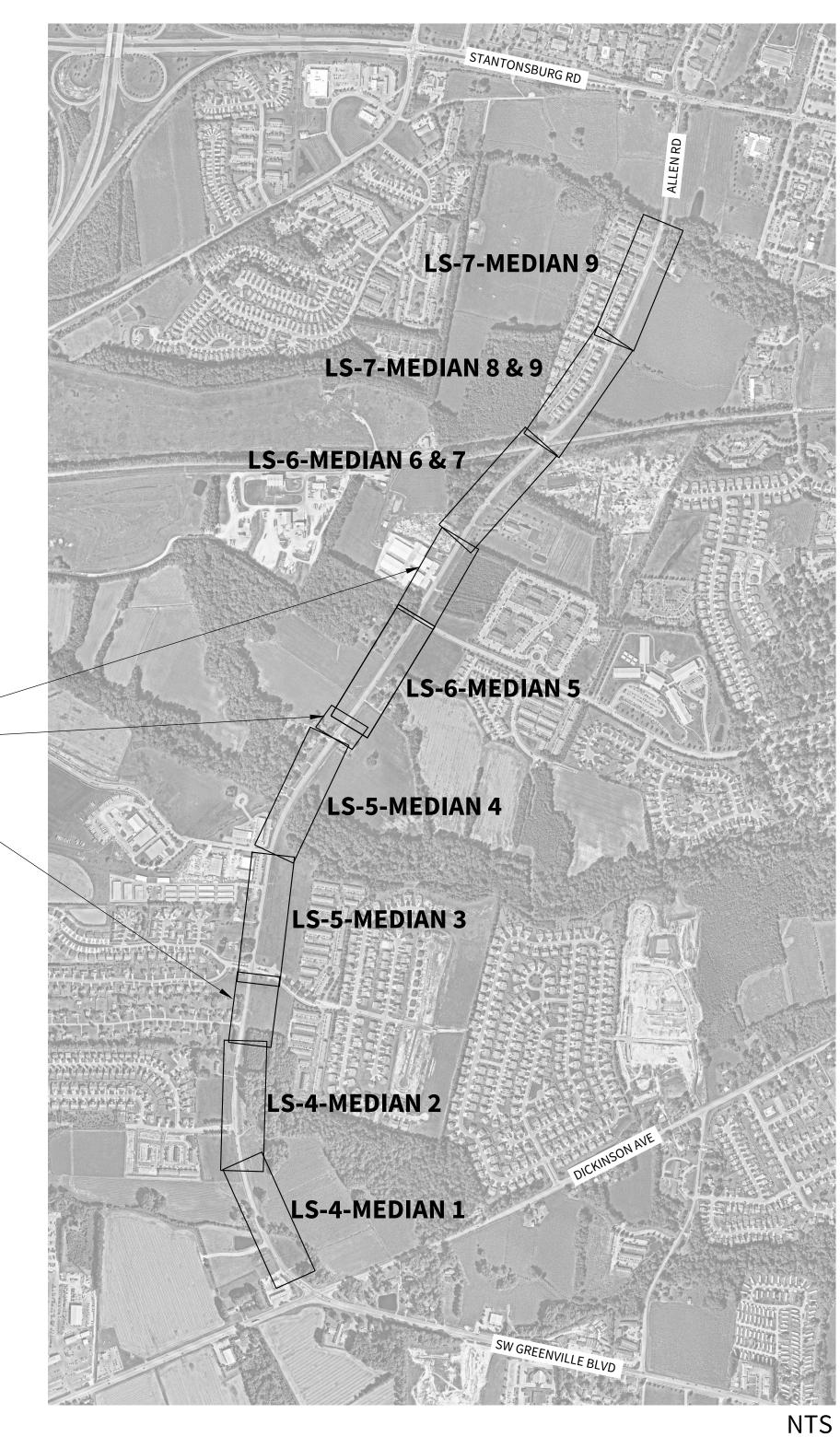
PREPARED FOR: CITY OF GREENVILLE 200 West Fifth Street Greenville, NC 27834

CONSTRUCTION DRAWINGS

		DATE			
PROJECT:					
ISSUE:	30% CONCEPTUAL PLAN	6/20/2024			
	65% DD PLAN	11/11/2024			
	90% CD PLAN	11/14/2024			
	100% CD PLAN	09/08/2025			
REVISIONS:					
PROJ. MGR:	MFL				
DRAWN BY:	JTG				
CHECKED BY:	MFL				
NOTES, LEGEND &					

ABRV'S

LS-2



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QUANTITY	UNIT	MATERIALS	UNIT COST	COST
65	1.5" Cal.	Chionanthus virginicus (White Fringetree)		
83	1.5" Cal.	llex vomitoria (Yaupon Holly)		
52	1 Gal.	Liriope muscari 'Big Blue' (Big Blue Lilyturf)		
649	1 Gal.	Muhlenbergia capillarius 'Gulf Coast' (Gulf Coast Pink Muhly Grass)		
414	1 Gal.	Schizachyrium scoparium 'The Blues' (The Blues Little Bluestem)		
8,569	SY	Zoysia japonica (Zoysia Grass)		
148	EA.	Tree Staking		
1,329	CY	Top Soil (4" depth)		
447	CY	Mulch (4" depth)		
		TOTAL		

														,
QTY	MEDIAN 1	MEDIAN 2	MEDIAN 3	MEDIAN 4 I	MEDIAN 5	MEDIAN 6	MEDIAN 7	MEDIAN 8	MEDIAN 9	UNIT	TREES	BOTANICAL / COMMON NAME	SIZE	CONTAINER
65	5			29	16)			20	EA	CVW	CHIONANTHUS VIRGINICUS / WHITE FRINGETREE	1.5" CAL. SS	B&B
83	3 13	3	13		19	10			28	EA	ILV	ILEX VOMITORIA / YAUPON HOLLY	1.5" CAL. SS	B&B
QTY	MEDIAN 1	MEDIAN 2	MEDIAN 3	MEDIAN 4 I	MEDIAN 5	MEDIAN 6	MEDIAN 7	MEDIAN 8	MEDIAN 9	UNIT	SHRUBS		SIZE	CONTAINER
52	2 20)			32					EA	LMB	LIRIOPE MUSCARI 'BIG BLUE' / BIG BLUE LILYTURF	1 GAL.	CONTAINER
649	28	3		99	131	89			302	EA	MCG	MUHLENBERGIA CAPILLARIS 'GULF COAST' / GULF COAST PINK MUHLY GRASS	1 GAL.	CONTAINER
414	1			99	117	,			198	EA	SCH	SCHIZACHYRIUM SCOPARIUM 'THE BLUES' / THE BLUES LITTLE BLUESTEM	1 GAL.	CONTAINER
QTY	MEDIAN 1	MEDIAN 2	MEDIAN 3	MEDIAN 4 I	MEDIAN 5	MEDIAN 6	MEDIAN 7	MEDIAN 8	MEDIAN 9	UNIT	GROUND	BOTANICAL / COMMON NAME	SIZE	CONTAINER
8,569	386.9	922.1	336.3	2430.6	1041.2	382.6	833.4	821.7	1413.9	SY	ZOJ	ZOYSIA JAPONICA / ZOYSIA GRASS	N/A	
QTY	MEDIAN 1	MEDIAN 2	MEDIAN 3	MEDIAN 4 I	MEDIAN 5	MEDIAN 6	MEDIAN 7	MEDIAN 8	MEDIAN 9	UNIT	MULCH	DESCRIPTION		
447	7 32.6	6	35.8	78.7	111	37.2			151	CY		TRIPPLE SHREDDED HARDWOOD MULCH	N/A	

NO MEDIAN TO LANDSCAPE - SHEETS NOT SHOWN IN SET

SS = SINGLE STEM

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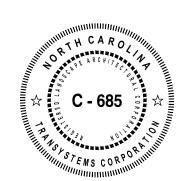
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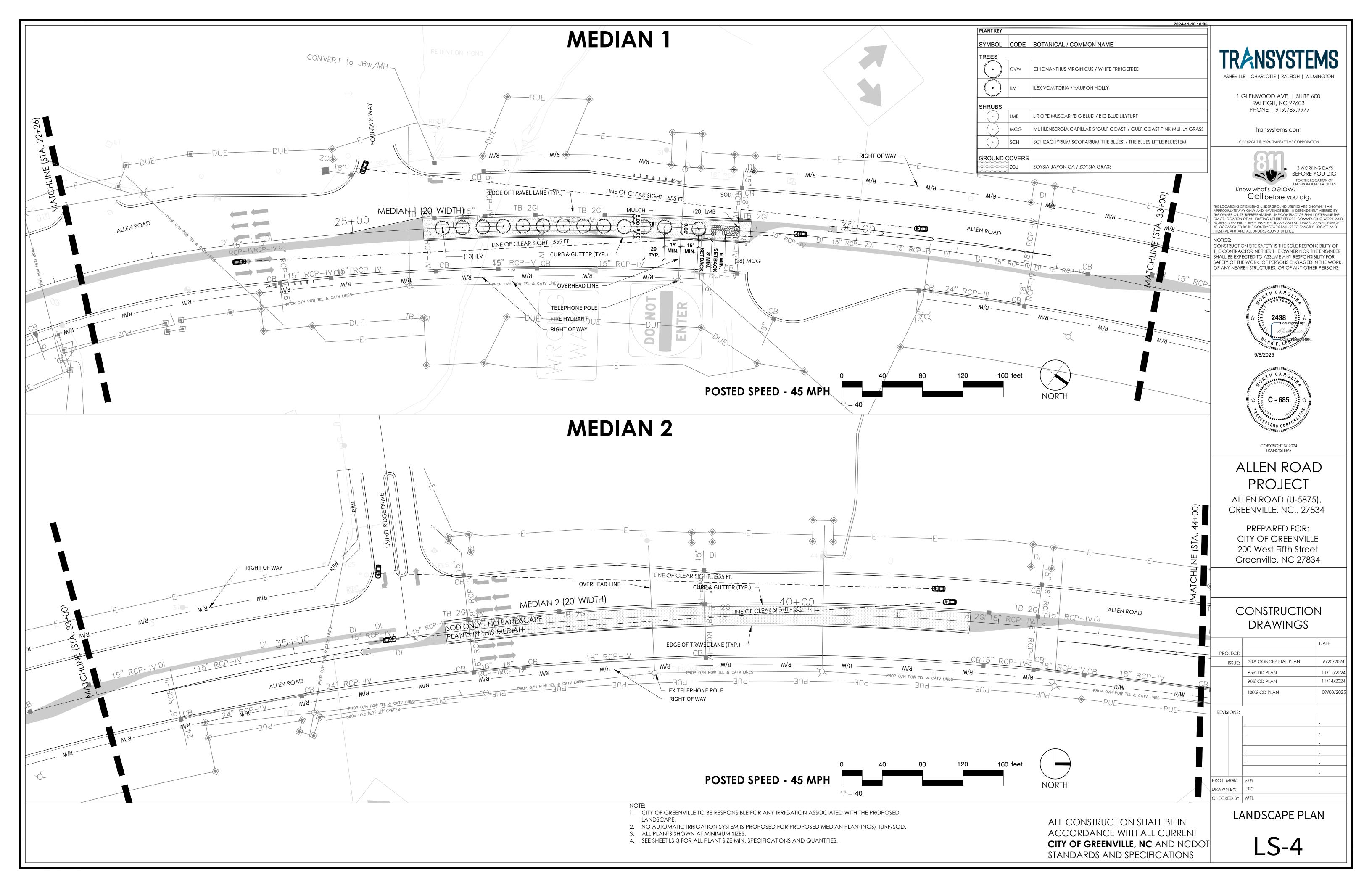
CONSTRUCTION DRAWINGS

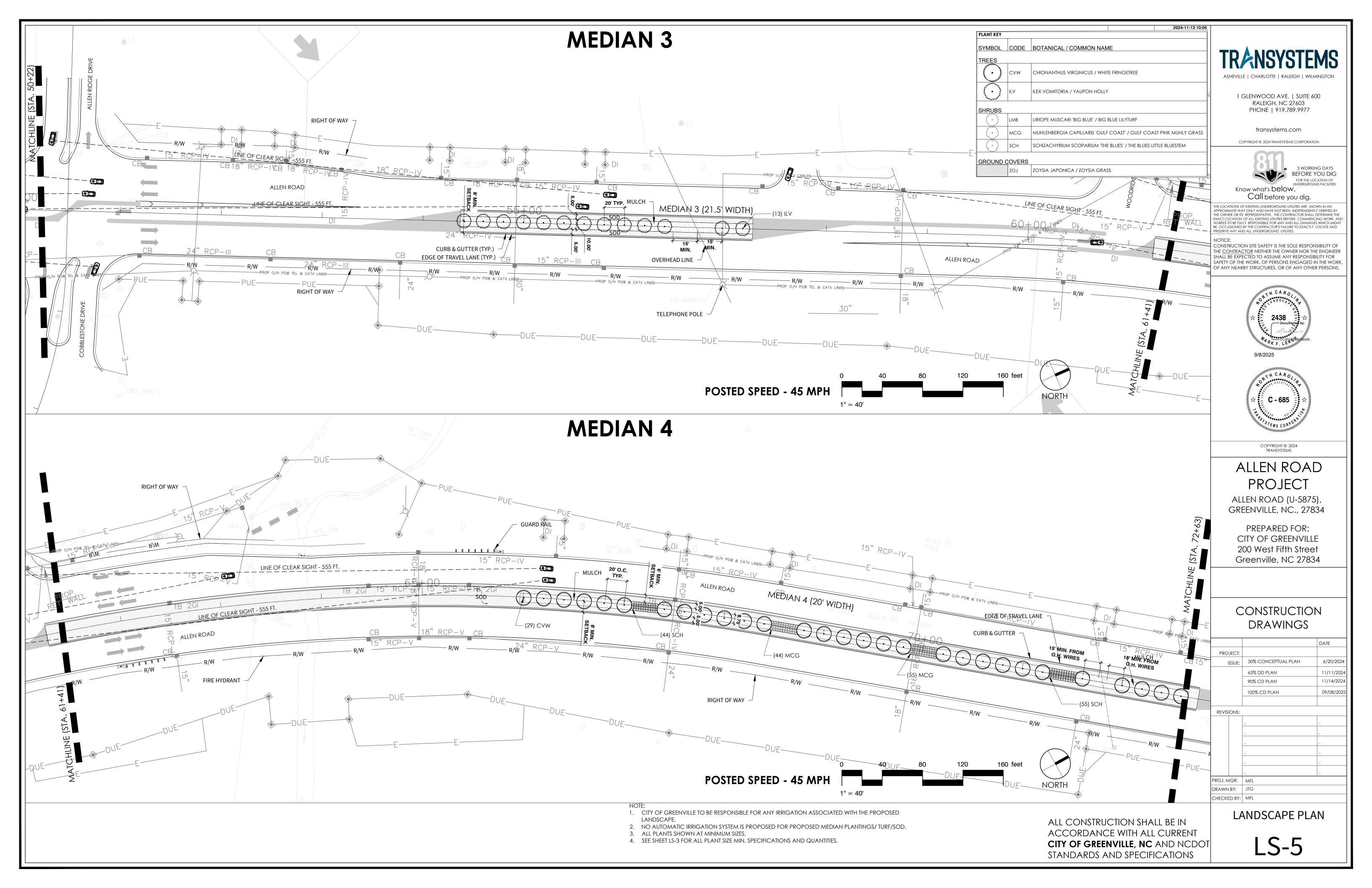
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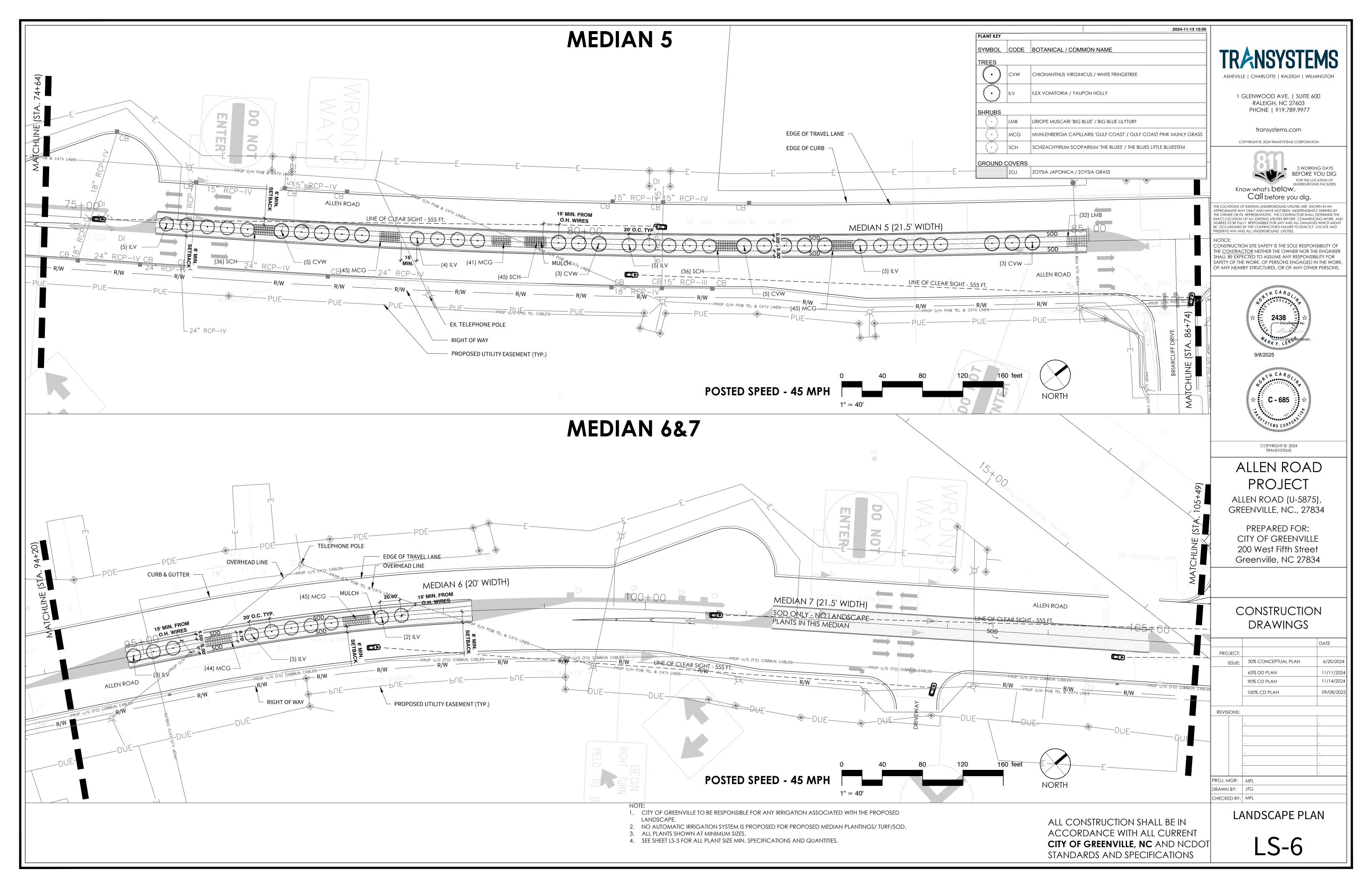
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RAWN BY:		JTG	
HECKED BY:		MFL	
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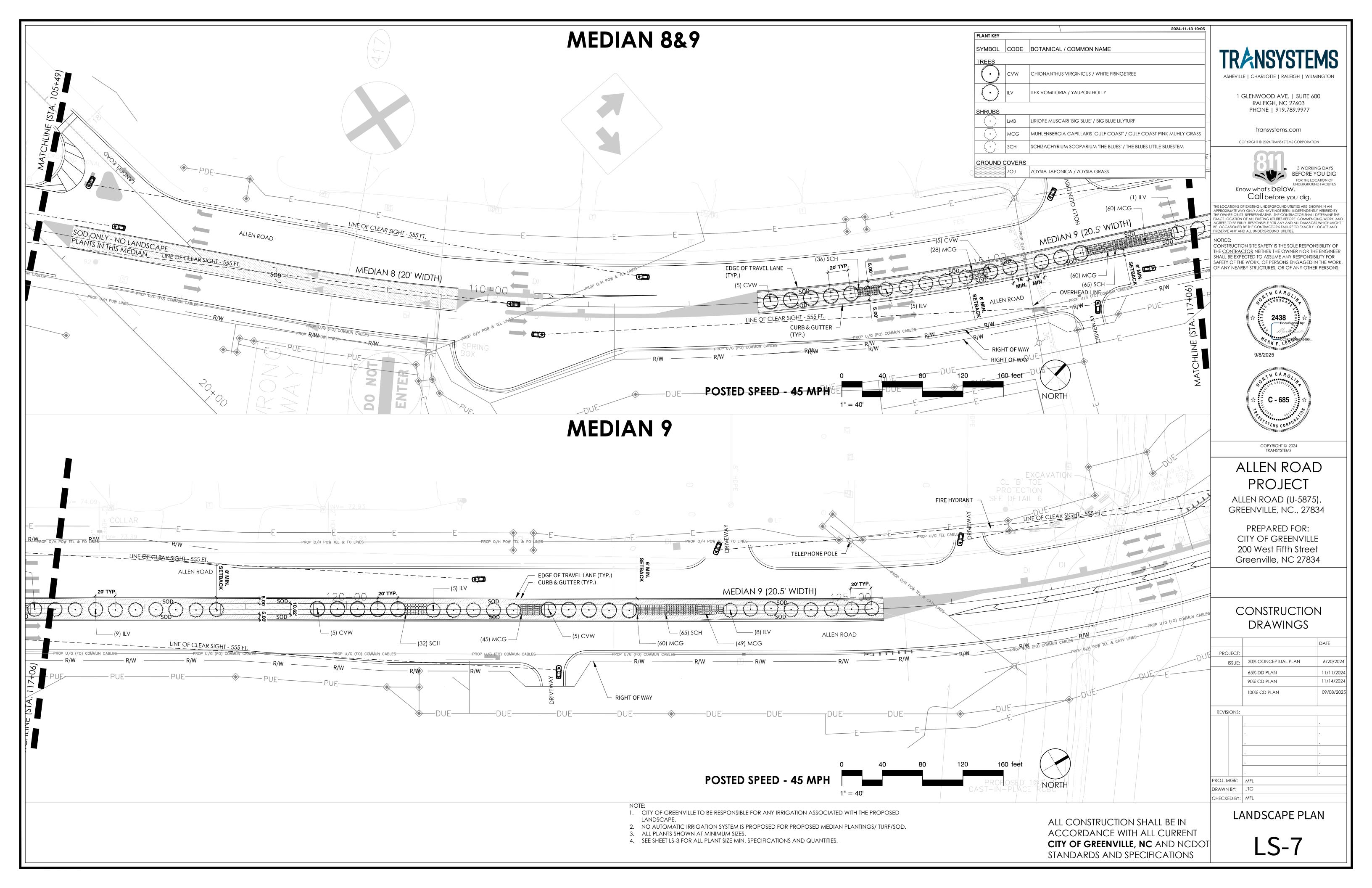
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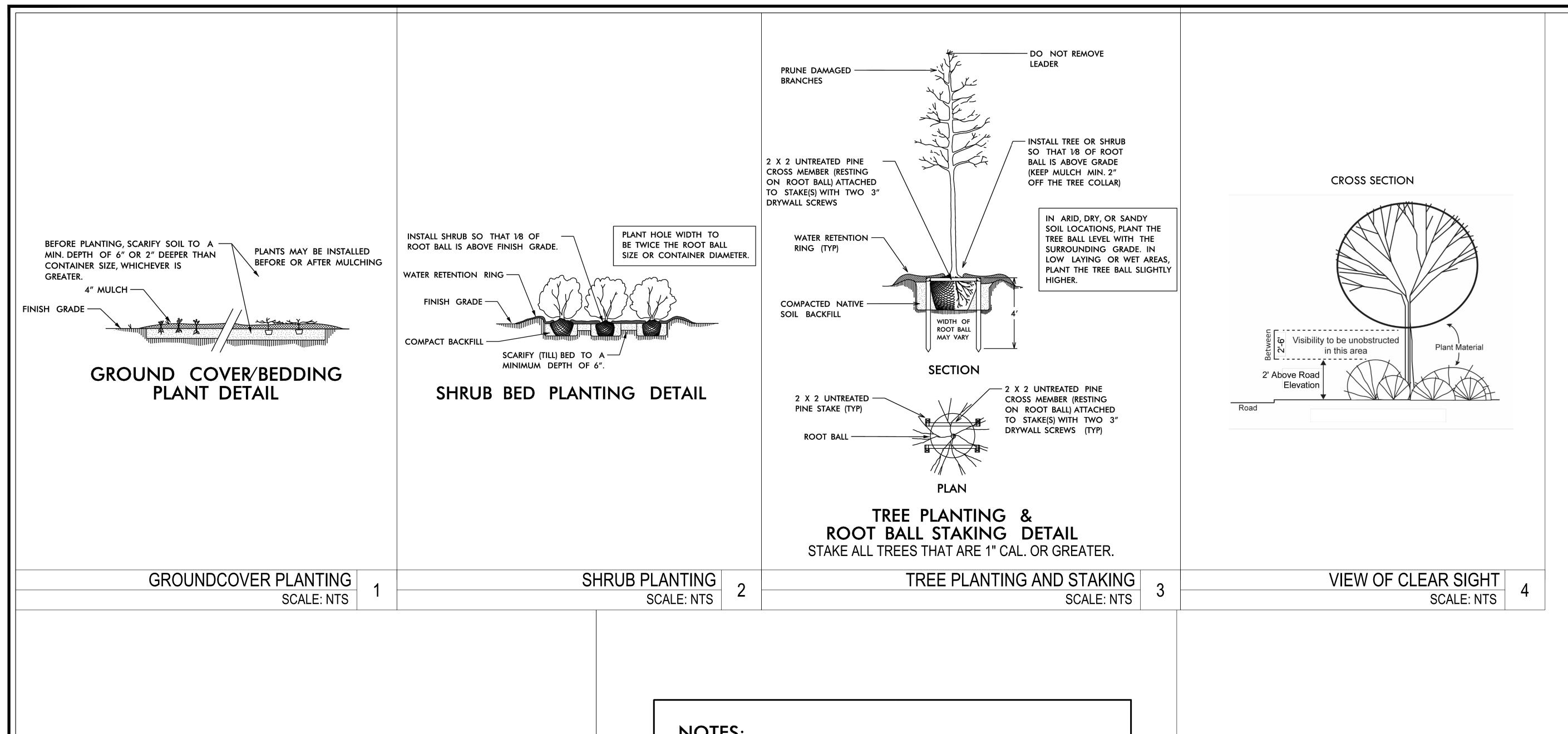
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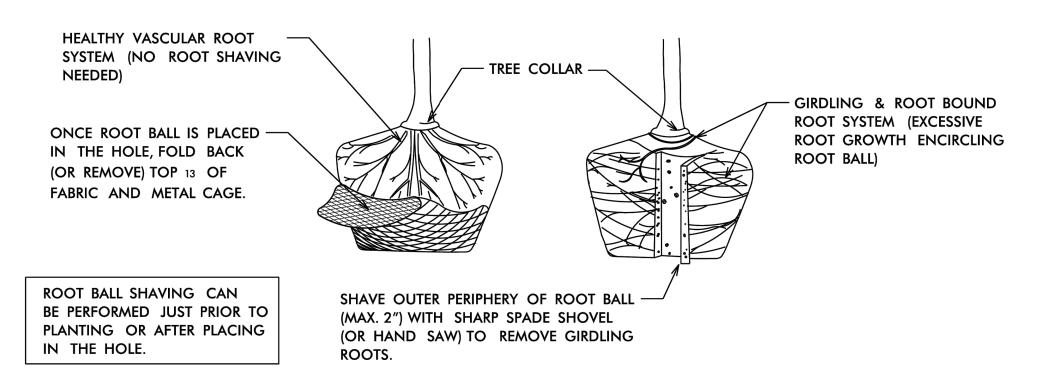












TREE PLANTING INSTRUCTIONS (FOR CONTAINER OR BALLED & BURLAPPED TREES)

NOTES:

- PLANT HOLE WIDTH TO BE TWICE THE ROOT BALL SIZE OR CONTAINER DIAMETER.
- APPLY HERBICIDES A MIN. OF 7 DAYS PRIOR TO PLANTING, BY LABEL INSTRUCTIONS, OR AS DIRECTED BY THE NCDOT ENGINEER.
- APPLY FERTILIZER AT PLANTING TIME IN THE FORM OF A SLOW RELEASE PELLET OR TABLET. APPLY AT RATE RECOMMENDED BY MANUFACTURER. BOTH RATE AND FORMULATION MUST BE APPROVED BY FIELD ENGINEER PRIOR TO APPLICATION.
- ALL PRUNING TO FOLLOW STANDARD ARBORICULTURAL PRACTICES AS SPECIFIED BY INTERNATIONAL SOCIETY OF ARBORICULTURE.
- DO NOT ATTEMPT TO STRAIGHTEN A TREE THAT HAS BEEN PLANTED AT AN ANGLE WITH THE USE OF STAKING OR GUYING. DIG TREE AND REPLANT TO UPRIGHT POSITION.

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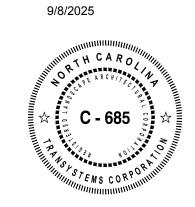


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		100% CD PLAN	09/08/20
REVISIC	DNS:		
PROJ. MGR:		MFL	
DRAWN BY:		JTG	
CHECKED BY:		MFL	

LANDSCAPE DETAILS

LS-8

TREE PLANTING INSTRUCTIONS SCALE: NTS

SCALE: NTS

LANDSCAPE TECHNICAL SPECIFICATIONS

GENERAL REQUIREMENTS

THE WORK OF THIS CONTRACT INCLUDES INSTALLATION OF PLANT MATERIAL AND TURF GRASS SOD INCLUDING MAINTENANCE OF THE LANDSCAPING DURING THE INSTALLATION PERIOD UNTIL FINAL ACCEPTANCE OF THE CONTRACT WORK AS INDICATED ON THE PLANS INCLUDING:

- A. INSTALLATION OF TREES, SHRUBS, AND GROUND COVERS
- B. SOIL PREPARATION
- C. INSTALLATION OF TURF GRASS SOD D. MULCHING
- E. STAKING AND GUYING OF PLANTS F. MAINTENANCE DURING THE INSTALLATION PERIOD
- G. ACCEPTANCE OF LANDSCAPE INSTALLATION H. WARRANTY REQUIREMENTS

SPECIFIC REQUIREMENTS ARE ENUMERATED IN THE SPECIFICATIONS BELOW.

THE CONTRACTOR IS REQUIRED TO SUBMIT TO THE OWNER A CONSTRUCTION SCHEDULE FOR THE EXECUTION OF THE WORK AND WILL CORRELATE SPECIFIC TASKS WITH REQUIRED COMPLETION DATES

PROJECT CONDITIONS

- 1. WORK ZONE SAFETY: COMPLY WITH ALL PERTINENT STATE AND LOCAL SAFETY REGULATIONS.
- THE CONTRACTOR SHOULD TAKE EVERY PRECAUTION TO ENSURE SAFETY FOR VEHICULAR TRAFFIC. PEDESTRIANS AND HIS PERSONNEL AT ALL TIMES DURING HIS OPERATIONS AND THROUGHOUT THE DURATION OF THE WORK. TRAFFIC CONTROL PROCEDURES SHALL CONFORM TO THE "GUIDELINES FOR CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS" HANDBOOK. 2002 VERSION PUBLISHED BY THE NORTH CAROLINA STATE UNIVERSITY. ADDITIONAL SAFETY INFORMATION IS CONTAINED IN THE FOLLOWING INDUSTRY ALERT FROM THE N.C. DEPARTMENT

http://www.nclabor.com/osha/etta/wrkzone.pdf

- PERFORM WORK OPERATIONS TO ENSURE MINIMAL INTERFERENCE WITH STREETS, WALKS, AND OTHER ADJACENT FACILITIES. ALLOW SAFE PASSAGE BY PEDESTRIANS ON PUBLIC SIDEWALKS OR, IF NECESSARY, PROVIDE SAFE ALTERNATE ROUTES AROUND OBSTRUCTED SIDEWALKS OR ADJACENT FACILITIES.
- LOCATE AND IDENTIFY EXISTING OVERHEAD AND UNDERGROUND UTILITIES WITHIN THE CONTRACT WORK AREAS THROUGH NC ONE CALL UTILITY LOCATOR SERVICE AT 1-800-632-4949. THE CONTRACTOR IS RESPONSIBLE FOR CALLING DIRECTLY ANY UTILITY OWNER THAT IS NOT A MEMBER OF THE NC ONE CALL NETWORK AND TO REQUES PHYSICAL MARKING OF THEIR UTILITY LINES WITHIN PROPOSED WORK AREAS. WHEN UNMARKED OR INCORRECTLY MARKED UNDERGROUND PIPING OR OTHER UTILITIES AND SERVICES ARE ENCOUNTERED, NOTIFY THE APPLICABLE UTILITY COMPANY IMMEDIATELY TO OBTAIN PROCEDURE INSTRUCTIONS. COOPERATE WITH THE APPLICABLE UTILITY COMPANY IN MAINTAINING ACTIVE SERVICES IN OPERATION. HAND EXCAVATE AS REQUIRED AROUND EXISTING UTILITIES. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR AND PAY FOR THE PROPER REPAIR OF UTILITIES DAMAGED BY OPERATIONS.
- PROTECT EXISTING BUILDINGS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY WORK OPERATIONS COST OF REPAIR AND RESTORATION OF DAMAGED ITEMS SHALL BE AT CONTRACTOR'S EXPENSE.
- : CONTRACTOR WILL COORDINATE WITH OWNER REGARDING CONTRACTOR PARKING, STORAGE OF PLANTS, AND STAGING OF THE WORK FOR COMMENT AND APPROVAL PRIOR TO COMMENCING WORK OPERATIONS.
- CONTROL DUST CAUSED BY THE WORK. DAMPEN SURFACES AS REQUIRED. COMPLY WITH POLLUTION REGULATIONS
- OF GOVERNING AUTHORITIES.
- WHEN CONDITIONS DETRIMENTAL TO PLANT GROWTH ARE ENCOUNTERED SUCH AS RUBBLE FILL, ADVERSE DRAINAGE CONDITIONS. OR OBSTRUCTIONS. NOTIFY LANDSCAPE ARCHITECT AND OWNER FOR REVIEW PRIOR TO PLANTING.
- . IF PROPOSED TREE OR SHRUB RELOCATION IS NECESSARY DUE TO INTERFERENCE WITH UTILITIES, CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT AND RECEIVE APPROVAL OF A REVISED LOCATION. CONTRACTOR MUST PROVIDE PRECISE LOCATION OF UTILITIES AND REQUIRED PLANT RELOCATION PRIOR TO PIT EXCAVATION AND
- 10. ALL DAMAGES CAUSED BY LANDSCAPING OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AT THE LANDSCAPE CONTRACTOR'S EXPENSE.

SUBMITTALS AND APPROVALS

PRIOR TO PLACING ORDERS FOR PLANT MATERIALS, THE CONTRACTOR WILL ELECTRONICALLY SUBMIT PHOTOGRAPHIC EVIDENCE OF THE SELECTED MATERIALS TO THE LANDSCAPE ARCHITECT FOR PRELIMINARY ACCEPTANCE. THE SPECIFIC PLANT OR PLANTS PHOTOGRAPHED SHOULD BE REPRESENTATIVE OF ALL PLANT STOCK REQUIRED FOR THE PROJECT. CONTRACTOR WILL LOCATE ALTERNATIVE SUPPLIER(S) FOR ANY MATERIALS REJECTED BY THE PRELIMINARY REVIEW. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT PLANT MATERIALS FOR FAILURE TO MEET THE SPECIFICATIONS THROUGHOUT THE LIFE OF THE CONTRACT. ANY ADDITIONAL COST ASSOCIATED WITH REPLACING REJECTED PLANT MATERIALS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

PRODUCT CERTIFICATES: FURNISH FOR EACH TYPE OF MANUFACTURED PRODUCT CERTIFYING THAT THEIR PRODUCTS COMPLY WITH SPECIFIED REQUIREMENTS INCLUDING:

- A. MANUFACTURER'S ANALYSIS OF FERTILIZER CONTENTS
- B. CERTIFIED ANALYSIS FOR SOIL MIXTURES INCLUDING PLANTING MIXTURE AND PLANTER MIX AS DEFINED UNDER
- C. VENDOR'S CERTIFIED STATEMENT FOR EACH GRASS SEED MIXTURE REQUIRED, STATING BOTANICAL AND COMMON NAME, PERCENTAGES BY WEIGHT, AND PERCENTAGES OF PURITY, GERMINATION, AND WEED SEED FOR EACH GRASS SEED SPECIES. INCLUDE THE YEAR OF PRODUCTION AND DATE OF PACKAGING.
- D. PRE-EMERGENT HERBICIDE BRAND AND MANUFACTURER RECOMMENDATIONS AS PER PARAGRAPH ON PRE-EMERGENT HERBICIDE NOTED IN THIS SECTION.
- E. PRIOR TO PURCHASE AND/OR DELIVERY TO JOB SITE, SUBMIT MULCH SAMPLE TO LANDSCAPE ARCHITECT FOR

DPSOIL ANALYSIS: FURNISH SOIL ANALYSIS BY A QUALIFIED SOIL-TESTING LABORATORY STATING PERCENTAGES OF ORGANIC MATTER; GRADATION OF SAND, SILT, AND CLAY CONTENT; CATION EXCHANGE CAPACITY; DELETERIOUS MATERIAL; PH: AND MINERAL AND PLANT NUTRIENT CONTENT OF TOPSOIL. REPORT SUITABILITY OF TOPSOIL FOR PLANT GROWTH. STATE RECOMMENDED QUANTITIES OF NITROGEN, PHOSPHORUS, AND POTASH NUTRIENTS AND SOIL AMENDMENTS TO BE ADDED TO PRODUCE SATISFACTORY TOPSOIL.

- A. PLANT PHOTOGRAPHIC EVIDENCE: CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT OF SOURCES OF PLANTING MATERIALS, EMAIL PHOTOS OF A SINGLE PLANT REPRESENTATIVE OF EACH INDIVIDUAL PLANT SPECIES SPECIFIED FOR REVIEW AND ACCEPTANCE BY LANDSCAPE ARCHITECT PRIOR TO PURCHASE AND DELIVERY OF PLANT
- B. PLANTING SCHEDULE: INDICATE ANTICIPATED DATES AND LOCATIONS FOR EACH TYPE OF WORK. INCLUDE ESTIMATED DATE OF SUBSTANTIAL COMPLETION TO ALLOW CONTINUITY OF MAINTENANCE ACTIVITIES. ONCE ACCEPTED, REVISE DATES ONLY AS APPROVED IN WRITING AFTER DOCUMENTATION OF REASONS FOR DELAY.
- MAINTENANCE INSTRUCTIONS: SUBMIT BEFORE EXPIRATION OF REQUIRED ESTABLISHMENT AND MAINTENANCE PERIOD. FURNISH THREE COPIES OF WRITTEN MAINTENANCE INSTRUCTIONS TO OWNER FOR MAINTENANCE AND CARE OF INSTALLED PLANTS OVER ONE CALENDAR YEAR. MAINTENANCE WILL BE RESPONSIBILITY OF LANDSCAPE CONTRACTOR UNTIL FINAL ACCEPTANCE BY LANDSCAPE ARCHITECT. OWNER WILL ASSUME MAINTENANCE AFTER

- BALLED AND BURLAPPED STOCK: PLANTS DUG WITH FIRM, NATURAL BALLS OF EARTH IN WHICH THEY ARE GROWN, WITH BALL SIZE NOT LESS THAN SIZES INDICATED AND DIAMETER AND DEPTH RECOMMENDED BY ANSI Z60.1 FOR TYPE AND SIZE OF THE TREE OR SHRUB REQUIRED; WRAPPED, TIED, RIGIDLY SUPPORTED, AND DRUM LACED AS RECOMMENDED BY ANSI Z60.1.
- CONTAINER-GROWN STOCK: HEALTHY, VIGOROUS, WELL-ROOTED PLANTS GROWN IN A CONTAINER WITH WELL-ESTABLISHED ROOT SYSTEM REACHING SIDES OF CONTAINER AND MAINTAINING A FIRM BALL WHEN REMOVED FROM CONTAINER. CONTAINER SHALL BE RIGID ENOUGH TO HOLD BALL SHAPE AND PROTECT ROOT MASS DURING SHIPPING AND BE SIZED ACCORDING TO ANSI Z60.1 FOR KIND, TYPE, AND SIZE OF PLANT REQUIRED.
- . FINISH GRADE: ELEVATION OF FINISHED SURFACE OF PLANTING SOIL.
- MANUFACTURED TOPSOIL: SOIL PRODUCED OFF-SITE BY HOMOGENEOUSLY BLENDING MINERAL SOILS OR SAND WITH STABILIZED ORGANIC SOIL AMENDMENTS TO PRODUCE TOPSOIL OR PLANTING SOIL.
- PLANTING SOIL: NATIVE OR IMPORTED TOPSOIL, MANUFACTURED TOPSOIL, OR SURFACE SOIL MODIFIED TO BECOME TOPSOIL: MIXED WITH SOIL AMENDMENTS.
- SUB-GRADE: SURFACE OR ELEVATION OF SUBSOIL REMAINING AFTER COMPLETING EXCAVATION, OR TOP SURFACE)F A FILL OR BACKFILL, BEFORE PLACING PLANTING SOIL.

QUALITY ASSURANCE

- . INSTALLER QUALIFICATIONS: INSTALLER SHALL BE A NORTH CAROLINA LICENSED LANDSCAPE CONTRACTOR. PROVIDE
- A. INSTALLER TO HAVE EXPERIENCE IN COMPLETING LANDSCAPE WORK SIMILAR IN MATERIAL, DESIGN, AND EXTENT TO THAT INDICATED FOR THIS PROJECT AND WITH A RECORD OF SUCCESSFUL LANDSCAPE ESTABLISHMENT.

- B. THE INSTALLER WILL MAINTAIN AN EXPERIENCED FULL-TIME SUPERVISOR ON THE PROJECT SITE WHEN LANDSCAPE INSTALLATION IS IN PROGRESS.
- (INSTALLER MUST PROVIDE STATEMENT OF QUALIFICATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AT
- 2. SOIL-TESTING LABORATORY QUALIFICATIONS: AN INDEPENDENT LABORATORY, RECOGNIZED BY THE STATE DEPARTMENT OF AGRICULTURE, WITH THE EXPERIENCE AND CAPABILITY TO CONDUCT THE TESTING INDICATED AND THAT SPECIALIZES IN TYPES OF TESTS TO BE PERFORMED.
- 3. OBSERVATION: LANDSCAPE ARCHITECT RETAINS RIGHT TO OBSERVE TREES AND SHRUBS FOR COMPLIANCE WITH REQUIREMENTS FOR GENUS, SPECIES, VARIETY, SIZE, CONDITION OF BALLS AND ROOT SYSTEMS, INSECTS, INJURIES, AND LATENT DEFECTS AND TO REJECT UNSATISFACTORY OR DEFECTIVE MATERIAL AT ANY TIME DURING PROGRESS OF WORK. REMOVE REJECTED TREES OR SHRUBS IMMEDIATELY FROM PROJECT SITE.
- A. PLANTS SHALL BE SUBJECT TO INSPECTION FOR CONFORMITY TO SPECIFICATION REQUIREMENTS AND APPROVAL BY THE LANDSCAPE ARCHITECT FROM SUBMITTED PHOTO EVIDENCE AND UPON DELIVERY. SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION DURING PROGRESS OF WORK.

PRODUCT DELIVERY, STORAGE, AND HANDLING

- 4. DELIVER PLANTS FRESHLY DUG.
- 5. DELIVER PLANTS AFTER PREPARATIONS FOR PLANTING HAVE BEEN COMPLETED AND INSTALL IMMEDIATELY. IF PLANTING IS DELAYED MORE THAN SIX HOURS AFTER DELIVERY, SET PLANTS IN SHADE, PROTECT FROM WEATHER AND MECHANICAL DAMAGE, AND KEEP ROOTS MOIST.
- 6. SET BALLED STOCK ON GROUND AND COVER BALL WITH SOIL, PEAT MOSS, SAWDUST, OR OTHER ACCEPTABLE
- 7. DO NOT REMOVE CONTAINER-GROWN STOCK FROM CONTAINERS BEFORE TIME OF PLANTING.
- 8. WATER ROOT SYSTEMS OF PLANTS STORED ON-SITE WITH A FINE-MIST SPRAY. WATER AS OFTEN AS NECESSARY TO MAINTAIN ROOT SYSTEMS IN A MOIST CONDITION.
- 9. DO NOT ALLOW ROOT BALLS OR ROOT SYSTEMS IN TO FREEZE DURING TRANSPORT OR STORAGE.
- 10. DO NOT PRUNE TREES AND SHRUBS BEFORE DELIVERY, EXCEPT AS APPROVED BY LANDSCAPE ARCHITECT. PROTECT BARK, BRANCHES, AND ROOT SYSTEMS FROM SUN SCALD, DRYING, SWEATING, WHIPPING, AND OTHER HANDLING AND TYING DAMAGE. DO NOT BEND OR BIND-TIE TREES OR SHRUBS IN SUCH A MANNER AS TO DESTROY THEIR NATURAL
- 11. PROVIDE PROTECTIVE COVERING OF PLANTS DURING DELIVERY. DO NOT DROP PLANTS DURING DELIVERY.
- 12. HANDLE PLANTING STOCK BY ROOT BALL. DO NOT LIFT OR MOVE USING TRUNK OR BRANCHES. NO BALLED AND BURLAPPED PLANT SHALL BE ACCEPTED IF BALL IS BROKEN OR TRUNK IS LOOSE IN BALL.
- A. PACKAGED MATERIALS: DELIVER PACKAGED MATERIALS IN UNOPENED CONTAINERS SHOWING WEIGHT, ANALYSIS, AND NAME OF MANUFACTURER. PROTECT MATERIALS FROM DETERIORATION DURING DELIVERY AND WHILE STORED AT SITE.
- B. SEED: DELIVER SEED IN ORIGINAL SEALED, LABELED, AND UNDAMAGED CONTAINERS. KEEP DRY AND PROTECT FROM CONTAMINATION

- 1. PLANTING RESTRICTIONS: COORDINATE PLANTING PERIODS WITH INDUSTRY-ACCEPTABLE DIGGING SCHEDULES AND
- 2. WEATHER LIMITATIONS: PROCEED WITH PLANTING ONLY WHEN EXISTING AND FORECASTED WEATHER CONDITIONS ERMIT AND AVOID PLANTING DURING PERIODS OF EXTREME WEATHER CONDITIONS.. DO NOT WORK SOILS UNDER FROZEN, MUDDY OR SATURATED CONDITIONS.
- 3. IF NECESSARY, ARRANGE WITH GOVERNING JURISDICTION TO DELAY PLANTING UNTIL A MUTUALLY-ACCEPTABLE TIME PROVIDE LETTER OF GUARANTEE AND/OR BOND AS REQUIRED BY JURISDICTIONAL AUTHORITY.

- 1. WARRANT PLANTS FOR THE REQUIRED MAINTENANCE PERIOD AND UNTIL FINAL ACCEPTANCE. PLANTS SHALL BE WARRANTED AGAINST DEFECTS INCLUDING DEATH, UNSATISFACTORY GROWTH, IF MISSING, AND GREATER THAN 25% DIEBACK. DEFECTS RESULTING FROM DAMAGE BY OTHERS, UNUSUAL PHENOMENA, OR INCIDENTS THAT ARE BEYOND CONTRACTOR'S CONTROL ARE EXEMPTED.
- 2. REMOVE AND REPLACE PLANTS FOUND TO BE DEAD OR IN UNHEALTHY CONDITION DURING THE WARRANTY PERIOD WITHOUT COST TO THE OWNER. INSTALL REPLACEMENTS UPON DISCOVERY OF DEATH OR UNHEALTHY CONDITION OR AS SOON AS PLANTING CONDITIONS ARE FAVORABLE. REPLACE PLANTS WHICH ARE IN A COMPROMISED CONDITION AT THE END OF THE WARRANTY PERIOD
- 3. REPLACEMENT PLANTS SHALL CLOSELY MATCH ADJACENT SPECIMENS OF THE SAME SPECIES AND SHALL BE SUBJECT TO ALL REQUIREMENTS OF THE SPECIFICATION AND SHALL BE INSTALLED IN THE SAME MANNER. REPLACEMENT
- 4. A LIMIT OF ONE REPLACEMENT OF EACH PLANT WILL BE REQUIRED, EXCEPT FOR LOSSES OR REPLACEMENTS DUE TO FAILURE TO COMPLY WITH SPECIFIED REQUIREMENTS.

MAINTENANCE DURING INSTALLATION

- 1. MAINTAIN PLANTS FOR THE DURATION OF THE INSTALLATION PROCESS BY PRUNING, CULTIVATING, WATERING. WEEDING, FERTILIZING, RESTORING PLANTING SAUCERS, TIGHTENING AND REPAIRING STAKES AND GUY SUPPORTS, AND RESETTING TO PROPER GRADES OR VERTICAL POSITION. AS REQUIRED TO ESTABLISH HEALTHY. VIABLE
- 2. WATERING VOLUMES SHOULD BE BASED UPON DELIVERY OF 1" OF MOISTURE PER WEEK TO THE PLANTS IF PRECIPITATION DOES NOT MEET THAT AMOUNT DURING THE ACTIVE GROWING SEASON DEFINED AS APRIL 15TH
- 3. SPRAY AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE.

PLANTS SHALL BE INSTALLED DURING THE APPROPRIATE PLANTING SEASON.

4. MINOR VANDALISM OR OTHER DAMAGE TO PLANTINGS OR RELATED WORK SHALL BE RESPONSIBILITY OF CONTRACTOR UNTIL END OF INSTALLATION MAINTENANCE PERIOD. MAJOR VANDALISM OR DAMAGE CAUSED BY OTHERS THROUGH NO FAULT OF CONTRACTOR OR HIS SUBCONTRACTORS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER.

PRODUCTS

PLANT MATERIAL

- 1. PLANT LIST: PLANTS SHALL BE OF THE KIND AND SIZES SPECIFIED IN THE LIST SHOWN ON THE DRAWINGS.
- 2. PROCUREMENT: SUBMITTAL OF A BID PROPOSAL AND EXECUTION OF A CONTRACT WILL BE CONSTRUED AS EVIDENCE THAT LANDSCAPE CONTRACTOR HAS MADE SUCCESSFUL PROCUREMENT ARRANGEMENTS FOR PLANT MATERIALS AS
- 3. HARDINESS: TREES GROWN IN HARDINESS ZONES 6, 7, AND 8 ONLY WILL BE ACCEPTED. HARDINESS ZONES ARE DEFINED IN U.S. DEPARTMENT OF AGRICULTURE PUBLICATIONS. GROWER'S CERTIFICATES MAY BE REQUIRED WHEN DOUBT EXISTS AS TO ORIGIN OF PLANT MATERIAL.
- 4. NURSERY GROWN: ALL PLANTS SHALL BE NURSERY GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE CALITY OF THE PROJECT FOR A MINIMUM OF TWO YEARS.
- 5. BALLED AND BURLAPPED PLANTS: PLANTS SHALL BE DUG WITH FIRM, NATURAL BALLS OF EARTH OF SUFFICIENT DIAMETER AND DEPTH TO ENCOMPASS THE FIBROUS AND FEEDING ROOT SYSTEM NECESSARY FOR FULL RECOVERY OF THE PLANT. PROVIDE BALL SIZES COMPLYING WITH THE LATEST EDITION OF THE "AMERICAN STANDARD FOR NURSERY STOCK". BALLS SHALL BE FIRMLY WRAPPED WITH NON-SYNTHETIC. BIO-DEGRADABLE BURLAP AND SECURED WITH NAILS AND HEAVY, NON-SYNTHETIC TWINE. BENDING OR CRACKING OF THE ROOT BALL MUST BE AVOIDED DURING THE PROCESS OF PLANTING. THE BALL MAY BE SECURED TO A PLATFORM. THE ROOT COLLAR SHALL BE APPARENT AT THE SURFACE OF THE BALL OR THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING EXCESS SOIL FROM THE TOP OF THE ROOT BALL. BALLS MUST BE KEPT MOIST AND SHADED UNTIL THEY ARE
- 6. CONTAINER PLANTS: PLANTS SHOULD HAVE BEEN GROWN IN CONTAINER FOR SUFFICIENT LENGTH OF TIME FOR ROOT SYSTEM TO HAVE DEVELOPED TO HOLD ITS SOIL TOGETHER, FIRM AND WHOLE. NO PLANTS SHALL BE LOOSE IN THE CONTAINER OR POT BOUND. IF STORED ON THE SITE, CONTAINER STOCK MUST BE WATERED THOROUGHLY AT
- 7. QUANTITIES: QUANTITIES NECESSARY TO COMPLETE THE PLANTINGS AS SHOWN AND LOCATED ON THE DRAWINGTS HALL BE FURNISHED. QUANTITIES SHOWN IN THE PLANT LIST ARE FOR THE CONVENIENCE OF CONTRACTORS ONLY. VERIFICATION OF PLANT QUANTITIES IS THE RESPONSIBILITY OF THE CONTRACTOR. IN THE EVENT THAT QUANTITY DISCREPANCIES OR MATERIAL OMISSIONS OCCUR IN THE PLANT MATERIALS LIST, THE DRAWINGS SHALL GOVERN.
- 8. <u>IDENTIFICATION:</u> LABEL AT LEAST A SINGLE TREE OR SHRUB OF EACH VARIETY WITH A GROWER'S LABEL AFFIXED TO PLANT. GROWER'S LABEL SHALL GIVE DATA NECESSARY TO INDICATE CONFORMANCE TO SPECIFICATIONS. USE DURABLE WATERPROOF LABELS WITH WATER RESISTANT INK WHICH WILL REMAIN LEGIBLE FOR AT LEAST 60 DAYS NOTIFY LANDSCAPE ARCHITECT AT LEAST 2 WORKING DAYS PRIOR TO DELIVERY OF PLANT MATERIALS TO SITE SO THAT PRE-PLANTING INSPECTION MAY BE MADE OR INDICATE DELIVERY SCHEDULE IN ADVANCE SO PLANT MATERIAL MAY BE INSPECTED UPON ARRIVAL AT JOBSITE, WHICHEVER IS MORE APPROPRIATE.
- 9. PLANT SIZE: PROVIDE SIZES COMPLYING WITH APPLICABLE REQUIREMENTS IN ANSI Z60.1, "AMERICAN STANDARD FOR NURSERY STOCK" FOR EACH VARIETY OF PLANT INDICATED. ROOT FLARE SHOULD BE VISIBLE OR EVIDENT FOR TREES

- AND SHRUBS. SIZES DICTATED ON THE CONSTRUCTION DRAWINGS ARE MINIMUM STANDARDS.
- 10. TREE CALIPER: MEASURE TREES AND SHRUBS ACCORDING TO ANSI Z60.1 WITH BRANCHES AND TRUNKS OR CANES IN HEIR NORMAL POSITION. DO NOT PRUNE TO OBTAIN REQUIRED SIZES. TAKE CALIPER MEASUREMENTS 6 INCHES ABOVE GROUND FOR TREES UP TO 4-INCH CALIPER SIZE, AND 12 INCHES ABOVE GROUND FOR LARGER SIZES. MEASURE MAIN BODY OF TREE OR SHRUB FOR HEIGHT AND SPREAD; DO NOT MEASURE BRANCHES OR ROOTS
- 11. PLANT QUALITY: PROVIDE WELL-SHAPED, FULLY BRANCHED, HEALTHY, VIGOROUS STOCK FREE OF ALL PESTS, DISEASES, CANKERS, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND FREE OF MECHANICAL DAMAGE AND DISFIGUREMENT AT THE TIME OF PLANTING.
- 12. PLANT UNIFORMITY: SELECT STOCK IN EACH GROUPING WITH UNIFORM HEIGHT AND SPREAD TO ENSURE A MATCHED PLANTING

SHADE AND FLOWERING TREES

- 1. PROVIDE BALLED AND BURLAPPED OR CONTAINERIZED TREES IN ACCORDANCE WITH THE FOLLOWING STANDARDS:
- A. SINGLE-STEM TRUNK: SINGLE TRUNK WITH NO MORE THAN 10 DEGREES OF BOW. TREES WITH "DOGLEG" TRUNKS OR COMPETING LEADERS ARE UNACCEPTABLE. NO PRUNING WOUNDS SHALL BE PRESENT WITH A DIAMETER OF MORE THAN 1 INCH AND SUCH WOUNDS MUST SHOW VIGOROUS BARK ON ALL EDGES.
- B. MULTI-STEM TRUNK: MINIMUM OF 3 TRUNKS TO MAXIMUM OF 5 TRUNKS. TRUNKS SHOULD BE EVENLY DISTRIBUTED ND SUFFICIENTLY SEPARATED.
- C. <u>BRANCHES</u>: ALL BRANCHES EQUALLY DOMINANT AND AT LEAST 6 INCHES APART. NO BRANCH IN UPPER HALF OF REE MAY BE GREATER THAN 2/3 THE SIZE OF THE TRUNK. NO BRANCH TIPS SHOULD BE TALLER THAN THE TRUNK.
- D. CROWN: BRANCHES TO BE EVENLY DISTRIBUTED AROUND TRUNK. ONLY ONE MAJOR BRANCH MAY BE LOCATED BOVE ANOTHER MAJOR BRANCH. NO LARGE VOIDS IN THE CANOPY SHOULD BE EVIDENT
- E. HEIGHT AND CROWN SPREAD: THE MINIMUM AND MAXIMUM HEIGHT AND THE MINIMUM CROWN SPREAD OF THE TREE SHOULD BE APPROPRIATE TO THE CALIPER OF THE TREE TRUNK AND SHALL MEET THE FOLLOWING
- (NOTE: COLUMNAR VARIETIES OF TREES ARE EXEMPT FROM THESE STANDARDS)

CALIPER	MIN. HEIGHT	MAX. HEIGHT	MIN. SPREAD
2"	8'	14'	4'
2.5"	9'	15'	4-1/2'
3"	10"	16'	5'
3.5"	11'	17'	5-1/2'
4"	12'	18'	6-1/2'
4.5"	14'	20'	7-1/2'
5"	16'	22'	9'
5.5"	17'	23'	10'

- 2. <u>UNACCEPTABLE TREES</u>: TREES MAY BE REJECTED DUE TO EVIDENCE OF ANY SINGLE OR MULTIPLE CONDITIONS AS
- A. STAKING TO SUPPORT TREES OVER 1-INCH CALIPER
- B ROOT BALL OR CONTAINER UNDERSIZED C. B&B ROOT BALL NOT PROPERLY SECURED
- D. ROOT BOUND PLANTS
- E. ROOTS GROWING OUT OF CONTAINER OR GROW BAG F. SPARSELY FOLIATED CROWN
- G. TIP DIEBACK ON MORE THAN 5% OF BRANCHES
- H. FAILURE TO MEET HEIGHT RESTRICTIONS I. FLUSH OR STUB PRUNING CUTS
- J. OPEN TRUNK WOUNDS OR INJURIES K. INCOMPLETE GRAFT UNION

P. MAJOR BRANCHES THAT ARE TOUCHING

- L. GREATER THAN 40% OF LOWER TRUNK VOID OF BRANCHES
- M. CHLOROTIC OR ABNORMALLY SMALL LEAVES
- N. EVIDENCE OF PESTS OR DISEASE O. INCLUDED BARK BETWEEN TRUNK AND MAJOR BRANCHES

BROADLEAF EVERGREENS, CONIFERS, AND SHRUBS

Q. CIRCLING ROOTS

1. FORM AND SIZE: BRANCHES SHALL BE GENEROUS, WELL-TWIGGED, AND THE PLANT AS A WHOLE WELL-BUSHED TO THE GROUND. SINGLE-STEMMED OR THIN SHRUBS WILL NOT BE ACCEPTED.

1. DO NOT MAKE SUBSTITUTIONS. SUBSTITUTIONS WILL ONLY BE PERMITTED UPON SUBMISSION OF WRITTEN PROOF THAT ANY PLANT AS SPECIFIED IS NOT AVAILABLE WITHIN REGION DURING THE SCHEDULED PLANTING SEASON. WRITTEN AUTHORIZATION OF THE LANDSCAPE ARCHITECT WILL BE REQUIRED FOR ANY SUBSTITUTION PRIOR TO ORDERING AND INSTALLATION. THE NEAREST EQUIVALENT OBTAINABLE SIZE AND VARIETY OF PLANT HAVING THE SAME ESSENTIAL CHARACTERISTICS SHALL BE USED. AN EQUITABLE CREDIT TO THE CONTRACT PRICE SHALL BE DETERMINED BY THE CONTRACTOR AND LANDSCAPE ARCHITECT.

- 1. SOIL FUMIGANT: BASIMID OR PRE-APPROVED EQUAL.
- 2. PLANTING SOIL MIXTURE (BACKFILL MATERIAL): NATIVE SOIL SHALL BE USED FOR NO MORE THAN 50% OF THE BACKFILL USED IN EXCAVATED PLANT PITS. 100% OF NATIVE SOIL IS ACCEPTABLE FOR CONSTRUCTION OF REQUIRED SAUCERS AROUND PLANTS. THE REMAINDER OF THE UNUSED SOIL SHALL BE HAULED AWAY FROM THE SITE. NATIVE BACKFILL MATERIAL SHALL BE BLENDED WITH A MIXTURE CONSISTING OF 50% COMPOST, 25% CLAY LOAM, AND 25% SANDY LOAM. COMPOST SHALL CARRY U.S. COMPOST COUNCIL SEAL OF ASSURANCE. EXCESS EXCAVATED SOILS
- 3. PLANTER MIX: SOIL BLEND TO FILL PLANTERS IF INDICATED ON THE DRAWINGS CONSISTING OF 60% COARSE SAND, 20% AGED PINE BARK, 10% COMPOST, AND 10% COMPOSTED COW MANURE. COMPOST SHALL CARRY U.S. COMPOST COUNCIL SEAL OF ASSURANCE

4. INORGANIC SOIL AMENDMENTS

SHALL BE HAULED OFF-SITE.

- A. LIME: ASTM C 602, AGRICULTURAL LIMESTONE CONTAINING A MINIMUM 80 PERCENT CALCIUM CARBONATE
- CLASS: CLASS O, WITH A MINIMUM 95 PERCENT PASSING THROUGH NO. 8 (2.36-MM) SIEVE AND A MINIMUM 55
- PERCENT PASSING THROUGH NO. 60 (0.25-MM) SIEVE. • PROVIDE LIME IN FORM OF DOLOMITIC LIMESTONE.

5. ORGANIC SOIL AMENDMENTS

- A. <u>COMPOST</u>: WELL-COMPOSTED, STABLE, AND WEED-FREE ORGANIC MATTER, PH RANGE OF 5.5 TO 8; MOISTURE CONTENT 35 TO 55 PERCENT BY WEIGHT; 100 PERCENT PASSING THROUGH 1-INCH (25-MM) SIEVE; SOLUBLE SALT CONTENT OF 5 TO 10 DECISIEMENS/M; NOT EXCEEDING 0.5 PERCENT INERT CONTAMINANTS AND FREE OF SUBSTANCES TOXIC TO PLANTINGS: AND AS FOLLOWS:
- ORGANIC MATTER CONTENT: 50 TO 60 PERCENT OF DRY WEIGHT.

SOURCE-SEPARATED OR COMPOSTABLE MIXED SOLID WASTE

- FEEDSTOCK: AGRICULTURAL. FOOD. OR INDUSTRIAL RESIDUALS; BIOSOLIDS; YARD TRIMMINGS; OR
- B. WOOD DERIVATIVES: DECOMPOSED, NITROGEN-TREATED SAWDUST, GROUND BARK, OR WOOD WASTE; OF UNIFORM TEXTURE, FREE OF CHIPS, STONES, STICKS, SOIL, OR TOXIC MATERIALS.
- C. MULCH: AGED DOUBLE-SHREDDED PINEBARK MULCH FROM A SINGLE SOURCE COMMERCIAL VENDOR WITH A MAXIMUM PARTICLE SIZE OF 2 INCHES, FREE OF WEED SEED AND WASTE MATERIALS.

6. STAKES AND GUYS: TWO 2"X2" UNTREATED PINE OR DOUGLAS FIR STAKES. INSTALL ADJACENT TO THE OUTER EDGE

OF THE ROOTBALL PER DETAIL ON LP500. 7. WATER: PROVIDED BY CONTRACTOR FROM OFF-SITE. WATER SHALL BE FREE OF SUBSTANCES HARMFUL TO PLANT

EXECUTION

- 1. PLANTING STANDARDS: ALL PLANT MATERIAL AND INSTALLATION WORK SHALL CONFORM TO THE STANDARDS DETAILED IN THE FOLLOWING DOCUMENTS:
- A. AMERICAN NATIONAL STANDARDS FOR TREE CARE OPERATIONS, ANSI A300. AMERICAN NATIONAL STANDARDS INSTITUTE, 11 WEST 42ND STREET, NEW YORK, N.Y. 10036
- B. AMERICAN NATIONAL STANDARD FOR NURSERY STOCK, ANSI Z60.1. AMERICAN NURSERY AND LANDSCAPE ASSOCIATION, 1250 EYE STREET, NW. SUITE 500, WASHINGTON, D.C. 20005

C. HORTUS THIRD, THE STAFF OF THE L.H. BAILEY HORTORIUM. 1976. MACMILLAN PUBLISHING CO., NEW YORK

EXAMINATION A. EXAMINE ALL AREAS TO RECEIVE PLANTING FOR COMPLIANCE WITH REQUIREMENTS AND FOR CONDITIONS

AFFECTING PERFORMANCE OF WORK. DO NOT PROCEED WITH INSTALLATION UNTIL SATISFACTORY CONDITIONS

B. SOIL PREPARATION OR PLANT INSTALLATION SHALL NOT BE ATTEMPTED WHEN GROUND IS FROZEN, MUDDY, OR

EXCESSIVELY DRY.

- A. TIME OF PLANTING: AFTER NOTIFICATION TO PROCEED, PLANTING OPERATIONS SHALL BE CONDUCTED UNDER FAVORABLE WEATHER CONDITIONS.
- B. FUMIGATE ALL LANDSCAPE BEDS WITH BASAMID OR EQUIVALENT TO ELIMINATE EXISTING WEED SEEDS.
- C. PLANTING BED LAYOUT: LOCATE PLANTING BED EDGES BY SCALING DIMENSIONS FROM BUILDINGS, CURBS, PAVEMENTS, ETC. SPECIFIC ATTENTION SHALL BE GIVEN TO ENSURE THAT SMOOTH AND UNIFORM ALIGNMENTS CONSISTENT WITH THE PLANS ARE PROVIDED. MAJOR DEVIATIONS FROM THE PLAN ARE SUBJECT TO REJECTION AT TIME OF REVIEW UNLESS UNFORESEEN SITE CONDITIONS OR CIRCUMSTANCES REQUIRED THE CHANGE.
- D. LAYOUT OF INDIVIDUAL PLANTS AND MASS PLANTINGS: INDIVIDUAL TREES, SHRUBS, AND MASS PLANTINGS SHALL BE ACCURATELY LOCATED AS SHOWN ON THE DRAWINGS. PLANT LOCATIONS MAY BE SCALED FROM THE DRAWINGS. TREES AND LARGE SHRUBS IN CLOSE PROXIMITY TO BUILDINGS SHALL NOT BE LOCATED IN FRONT OF WINDOWS UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE PLANS.
- E. SOIL PREPARATION: LIMIT SOIL PREPARATION TO AREAS THAT WILL BE PLANTED IN THE IMMEDIATE FUTURE.

3. EXCAVATION FOR TREES AND SHRUBS

- A. EXCAVATE SO THAT SIDES OF PLANTING HOLES SLOPE OUTWARD. PITS WITH VERTICAL OR STEEPLY SLOPING SIDES ARE UNACCEPTABLE. EXCAVATE SO THAT TOP OF HOLE IS AT LEAST 2 TIMES AS WIDE AS BALL OR CONTAINER DIAMETER. EXCAVATE DEPTH EQUAL TO DISTANCE FROM ROOT FLARE TO BASE OF BALL OR
- ${\tt B. \ \, \underline{OBSTRUCTIONS}:\ NOTIFY\ LANDSCAPE\ ARCHITECT\ IF\ UNEXPECTED\ ROCK\ OR\ OBSTRUCTIONS\ DETRIMENTAL\ TO}}$ EES OR SHRUBS ARE ENCOUNTERED IN EXCAVATIONS.
- C. <u>DRAINAGE</u>: NOTIFY LANDSCAPE ARCHITECT IF SUBSOIL CONDITIONS REVEAL UNEXPECTED WATER SEEPAGE OR

4. TREE AND SHRUB INSTALLATION

RETENTION IN TREE OR SHRUB PITS.

- A. SET PLANTS PLUMB AND IN CENTER OF EXCAVATION ON UNDISTURBED SOIL TO SUCH DEPTH THAT THE ROOT FLARE IS NO LOWER THAN LEVEL OR NO MORE THAN 2 INCHES ABOVE THE SURROUNDING FINISHED GRADE.
- B. REMOVE BURLAP, ROPE, TWINE AND WIRE BASKET FROM TOP OF BALL AND AT LEAST 1/2 OF SIDES. DO NOT USE PLANT IF BALL IS CRACKED OR BROKEN BEFORE OR DURING PLANTING OPERATION.
- C. EXAMINE PLANT FOR EVIDENCE OF GIRDLING OR MATTED ROOTS NEAR THE ROOT FLARE. SEVER ANY ROOTS WHICH MAY INTERFERE WITH STEM GROWTH IN FUTURE. REJECT AND DO NOT INSTALL PLANTS THAT SHOW SUBSTANTIAL EVIDENCE OF CIRCLING ROOTS OR MATTED ROOTS ON SURFACE.
- D. PLACE SOIL BACKFILL AROUND BALL IN LAYERS, TAMPING TO SETTLE BACKFILL AND ELIMINATE VOIDS AND AIR POCKETS. WATER THOROUGHLY WITHIN 4 HOURS OF PLANTING, PREFERABLY AFTER MULCHING.

E. TOP SURFACE OF ROOT BALL SHALL REMAIN FREE OF ANY SOIL BACKFILL OR OTHER SOIL.

- F. FORM A SHALLOW SAUCER AROUND EACH PLANT BY PLACING A RIDGE OF SOIL AROUND THE EDGE OF THE BALL. THE OUTSIDE DIAMETER OF THE SAUCER SHALL BE 6 FEET. INSTALL A 4-INCH DEEP V-SHAPED TRENCH EDGING AROUND OUTER EDGE OF SAUCER.
- G. NO PRUNING SHOULD BE DONE EXCEPT TO REMOVE BROKEN BRANCHES. WHEN REMOVING BROKEN BRANCHES PRUNING CUTS SHALL BE MADE OUTSIDE OF BRANCH COLLAR. PRUNING SHALL BE DONE IN ACCORDANCE WITH

5. TREE STAKING AND GUYING: INSTALL STAKING AND GUYING IMMEDIATELY FOLLOWING PLANTING. ENSURE TREE IS IN

A PLUMB POSITION PRIOR TO AND AFTER GUYING IS SECURED. SECURELY ATTACH NO FEWER THAN 2 STAKES PER

- 6. MASS PLANTING BED / PARKING LOT ISLAND SOIL BED PREPARATION A. REMOVE AND DISPOSE OF ANY EXISTING VEGETATION. DO NOT TURN OVER INTO SOIL BEING PREPARED FOR
- B. LOOSEN EXISTING SOIL TO A MINIMUM DEPTH OF 12 INCHES. REMOVE STONES LARGER THAN 1 INCH IN ANY DIMENSION, STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEOUS MATERIALS FROM THE SOIL.
- C. RECONSTRUCT BERMS IN PARKING LOT ISLANDS IF EXISTING PRIOR TO BED PREPARATION OPERATIONS.

D. PLACE A 1-INCH LAYER OF COMPOST, TILL INTO THE TOP 4" OF LOOSENED SOIL, AND FINE GRADE THE AMENDED

- E. FINE GRADE THE AMENDED SOIL TO A SMOOTH, EVEN SURFACE WITH A LOOSE, UNIFORMLY FINE TEXTURE. LIGHTLY ROLL AND RAKE REMOVE RIDGES AND FILL DEPRESSIONS TO OBTAIN A UNIFORM SURFACE. NO PONDING OF WATER SHOULD BE PRESENT AFTER WATERING. LIMIT FINE GRADING TO AREAS THAT WILL BE PLANTED IN THE
- IMMEDIATE FUTURE. RESTORE PREPARED AREAS IF ERODED OR OTHERWISE DISTURBED BEFORE PLANTING. F. FUMIGATE THE SOIL IN ALL LANDSCAPE BEDS TO ELIMINATE ALL WEED SEED. APPLY IN STRICT ACCORDANCE WITH
- MANUFACTURER'S INSTRUCTIONS AND PROCEDURES G. WHERE PLANTING BEDS ARE TO BE INSTALLED IN AREAS UNDISTURBED BY RECENT CONSTRUCTION OF THE ROAD,

PREPARE SOIL AS FOLLOWS: . <u>INSTALLING CONTAINER PLANTS</u>

- A. SPACE PLANTS IN ACCORDANCE WITH SPACING REQUIREMENTS.
- B. REMOVE CONTAINER PRIOR TO PLANTING.
- C. SET PLANTS WITH CROWN AT SURFACE OF SOIL. D. PRIOR TO PLANTING, BIODEGRADABLE POTS SHALL BE CAREFULLY BROKEN UP AND ANY ABOVE-GROUND PORTION
- SHALL BE REMOVED. NON-BIODEGRADABLE POTS SHALL BE REMOVED.
- E. INSTALL PLANTS SO THAT ROOTS ARE SURROUNDED BY SOIL. DO NOT COVER ROOT BALL WITH SOIL.
- F. INSTALL A 4-INCH DEEP V-SHAPED TRENCH EDGING AROUND THE OUTER EDGE OF THE PLANTING BED. G. WATER PLANTS THOROUGHLY WITHIN ONE HOUR OF INSTALLATION.

- 8. <u>MULCHING</u> A. MULCH SAUCERS UNDER INDIVIDUAL TREES AND SHRUBS AND BACKFILLED AREAS AROUND PLANTINGS IN
- PLANTING BEDS. FILL TRENCH IN V-SHAPED PLANT BED EDGING WITH SLIGHTLY COMPACTED MULCH.
- B. APPLY A MINIMUM 3-INCH THICK BUT NO MORE THAN 4-INCH THICK LAYER OF SPECIFIED MULCH. C. KEEP MULCH 4 TO 6 INCHES AWAY FROM TREE TRUNKS OR STEMS. MULCHING AGAINST THE TRUNK IS AN

UNACCEPTABLE PRACTICE THAT INHIBITS THE HEALTH AND VIGOR OF TREES.

- 9. CLEANUP AND DISPOSAL OF SURPLUS AND WASTE A. DURING LANDSCAPING OPERATIONS, KEEP PAVEMENTS CLEAN AND WORK AREA IN AN ORDERLY CONDITION.
- B. REMOVE WASTE MATERIAL AND SURPLUS MATERIALS DAILY, INCLUDING EXCESS SOIL, UNSUITABLE SOIL, TRASH, AND DEBRIS AND LEGALLY DISPOSE OF OFF-SITE AT NO COST TO THE OWNER.

10. ACCEPTANCE OF LANDSCAPE WORK

ACCEPTABLE

- A. MAINTENANCE OF INSTALLED PLANTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONTINUE UNTIL ACCEPTANCE OF THE LANDSCAPE WORK.
- B. WHEN THE INDIVIDUAL TREES AND SHRUBS AND THE PLANTING BEDS ARE READY FOR FINAL INSTALLATION INSPECTION, ALL PLANT BEDS WILL BE FREE FROM WEEDS AND EDGED NEATLY TO A LINE AS SHOWN ON THE DRAWINGS. PLANT TAGS OF ALL DESCRIPTION SHALL BE REMOVED BY THE CONTRACTOR PRIOR TO THE INSPECTION FOR PRELIMINARY ACCEPTANCE.
- C. MULCH SHALL BE REPLENISHED TO A DEPTH OF THREE INCHES.
- D. 10 DAYS PRIOR TO THE ANTICIPATED DATE OF COMPLETION, THE CONTRACTOR WILL FURNISH WRITTEN NOTICE REQUESTING INSPECTION BY THE LANDSCAPE ARCHITECT
- E. FINAL ACCEPTANCE OF THE WORK WILL BE MADE UPON COMPLETION OF ALL WORK UNDER THIS CONTRACT. PLANTS MUST BE IN EXCELLENT AND VIGOROUS CONDITION. F. WHEN INSPECTED LANDSCAPE WORK DOES NOT COMPLY WITH REQUIREMENTS, REPLACE REJECTED WORK AND

CONTINUE SPECIFIED MAINTENANCE UNTIL RE-INSPECTED BY LANDSCAPE ARCHITECT AND FOUND TO BE

- G. EXCESSIVELY PRUNED TREES AND SHRUBS WHICH, IN OPINION OF LANDSCAPE ARCHITECT, ARE NO LONGER EXCELLENT REPRESENTATIVES OF THEIR SPECIES SHALL BE REPLACED PRIOR TO FINAL ACCEPTANCE.
- H. THE CONTRACTOR WILL BE NOTIFIED IN WRITING OF ACCEPTANCE OF ALL WORK OF THIS SECTION EXCLUSIVE OF ANY DEFICIENCIES OF THE REQUIREMENTS OF COMPLETION OF THE WORK.
- I. AT THE TIME OF ACCEPTANCE, THE CONTRACTOR IS RELIEVED OF ROUTINE MAINTENANCE RESPONSIBILITIES DURING THE INSTALLATION PERIOD FOR THE PLANTINGS UNDER THIS CONTRACT.

SODDING SPECIFICATIONS

STONES GREATER THAN 1"Ø ARE REMOVED.

SITE PREPARATION

- . CONTRACTOR SHALL CONSULT WRITTEN SPECIFICATIONS FOR SODDING, AS APPLICABLE, IN ADDITION TO THE NOTES BELOW.
- 2. CONTRACTOR TO FINE GRADE ALL SOD AREAS PRIOR TO INSTALLATION
- 3. CONTRACTOR TO LOOSEN SOIL TO A DEPTH OF 4" BY DISKING, RAKING, ROTO-TILLING, OR OTHER ACCEPTABLE MEANS, AND RAKE SMOOTH ENSURING ALL ROOTS, DEBRIS, AND
- 4. CONTRACTOR TO PROVIDE A SOIL pH TEST TO LANDSCAPE ARCHITECT PRIOR TO INSTALLATION, AND AMEND SOIL AS NEEDED PER LOCAL COOPERATIVE EXTENSION OFFICE GUIDELINES TO ACHIEVE IDEAL GROWING CONDITIONS FOR BOTH TURF AND LANDSCAPE
- 5. ALL SODDED AREAS SHALL BE FINISHED GRADE AT THE THICKNESS OF SOD.

REVIEWED/ACCEPTED THE FINAL GRADING AND SOIL CONDITIONS

- NO SODDED AREAS SHALL BE INSTALLED UNTIL ALL OTHER CONSTRUCTION ACTIVITIES INCLUDING PLANTING AND MULCHING. HAVE OCCURRED AND LANDSCAPE ARCHITECT HAS
- 7. ALL PERMANENT TURF GRASS AREAS AND DISTURBED AREAS NOT PROPOSED FOR CONSTRUCTION SHALL BE SODDED AT THE TIME OF DEVELOPMENT. SEEDING SPRIGS, OR SOD PLUGS SHALL BE PROHIBITED FOR PERMANENT GROUND STABILIZATION.

- 1. CONTRACTOR TO ENSURE SOD AREAS UTILIZE ROLLS THAT ARE NOT BROKEN OR STRETCHED AND FREE OF DISEASE, PESTS, AND THATCH.
- 2. SODDING SHALL OCCUR IN EARLY SPRING OR EARLY FALL AND SHALL BE INSTALLED WITHIN 24 HOURS OF ARRIVING ON SITE UNLESS APPROVED OTHERWISE BY LANDSCAPE
- 3. SOD SHALL BE LAID PARALLEL TO THE CONTOURS ON SITE AND HAVE STAGGERED JOINTS.
- SOD SHALL BE STAKED ON SLOPES GREATER THAN 3:1 OR IN DRAINAGE SWALES.

4. CONTRACTOR TO APPLY STARTER FERTILIZER AT TIME OF SODDING AT A RATE

RECOMMENDED BY THE MANUFACTURER. 5. CONTRACTOR IS RESPONSIBLE FOR WATERING AND CONTINUED MAINTENANCE OF SODDED

AREAS UNTIL PROJECT COMPLETION

. CONTRACTOR SHALL WATER SOD WITHIN 1 HOUR OF INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR KEEPING AREAS ADEQUATELY IRRIGATED EITHER BY HAND OR IRRIGATION SYSTEM SHOULD ONE BE AVAILABLE.

WORK AND SOD WHICH FAILS TO MEET SPECIFICATION REQUIREMENTS.

2. CONTRACTOR IS RESPONSIBLE FOR CONTINUED MAINTENANCE (MOWING, FERTILIZING, WEEDING, ETC.) OF SODDED AREAS UNTIL COMPLETION OF PROJECT OR AS THE CONTRACT DICTATES. CONTRACTOR TO UTILIZE THE SERVICES OF A CERTIFIED PROFESSIONAL LANDSCAPE CONTRACTOR.

SOD IS SUBJECT TO INSPECTION AND ACCEPTANCE. LANDSCAPE ARCHITECT AND/OR OWNER

LANDSCAPE TECHNICAL

SPECIFICATIONS

ACCORDANCE WITH ALL CURRENT

STANDARDS AND SPECIFICATIONS

CITY OF GREENVILLE, NC AND NCDOT

ALL CONSTRUCTION SHALL BE IN

RESERVES THE RIGHT TO REJECT AT ANY TIME OR PLACE PRIOR TO ACCEPTANCE OF ANY

ASHEVILLE | CHARLOTTE | RALEIGH | WILMINGTON

PHONE | 919.789.9977

1 GLENWOOD AVE. | SUITE 600

RALEIGH, NC 27603

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Call before you dig. E LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN PPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED B IF OWNER OR ITS REPRESENTATIVE, THE CONTRACTOR SHALL DETERMINE TH CT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, ANI

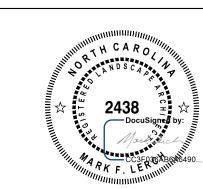
GREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGH

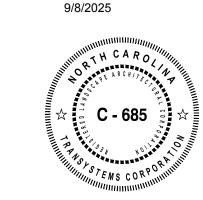
OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND

OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK

PRESERVE ANY AND ALL UNDERGROUND UTILITIES.





ALLEN ROAD

ALLEN ROAD (U-5875)

GREENVILLE, NC., 27834

Greenville, NC 27834

PREPARED FOR: CITY OF GREENVILLE 200 West Fifth Street

CONSTRUCTION DRAWINGS

PRO.	JECT:		
Į:	SSUE:	30% CONCEPTUAL PLAN	6/20/2024
		65% DD PLAN	11/11/2024
		90% CD PLAN	11/14/2024
		100% CD PLAN	09/08/2025
REVISI	ONS:		
ROJ. MGR:		MFL	

DATE

SPECIFICATIONS

CHECKED BY: MFL TECHNICAL

DRAWN BY: JTG

LICENSE NUMBER.