

ELIZABETH SPRINGS

AMENITY CENTER SITE PLAN

TOWN OF ROLESVILLE
WAKE COUNTY, NC

1ST SUBMITTAL: FEBUARY 4, 2020

2ND SUBMITTAL: AUGUST 27, 2020

3RD SUBMITTAL: NOVEMBER 23, 2020

4TH SUBMITTAL: JULY 1, 2022

| DRAWING LIST | |
|--------------|---------------------------|
| C000 | COVER |
| C101 | EXISTING CONDITIONS |
| C300 | SITE PLAN |
| C310 | GRADING PLAN |
| C401 | UTILITY PLAN |
| C450 | LANDSCAPE PLAN |
| C801 | WATER/SEWER/STORM DETAILS |
| C802 | SITE/NCDOT DETAILS |
| C803 | NCDOT DETAILS |

| PROJECT DATA | |
|-----------------|--------------|
| BUILDING AREA | 1,745 SQ FT |
| POOL AREA | 2,100 SQ FT |
| POOL DECK AREA | 5,071 SQ FT |
| IMPERVIOUS AREA | 30,047 SQ FT |

| PARKING | REQUIRED | PROVIDED |
|---------|----------|----------|
| REGULAR | 25 | 28 |
| ADA | 1 | 2 |
| TOTAL | 25 | 28 |

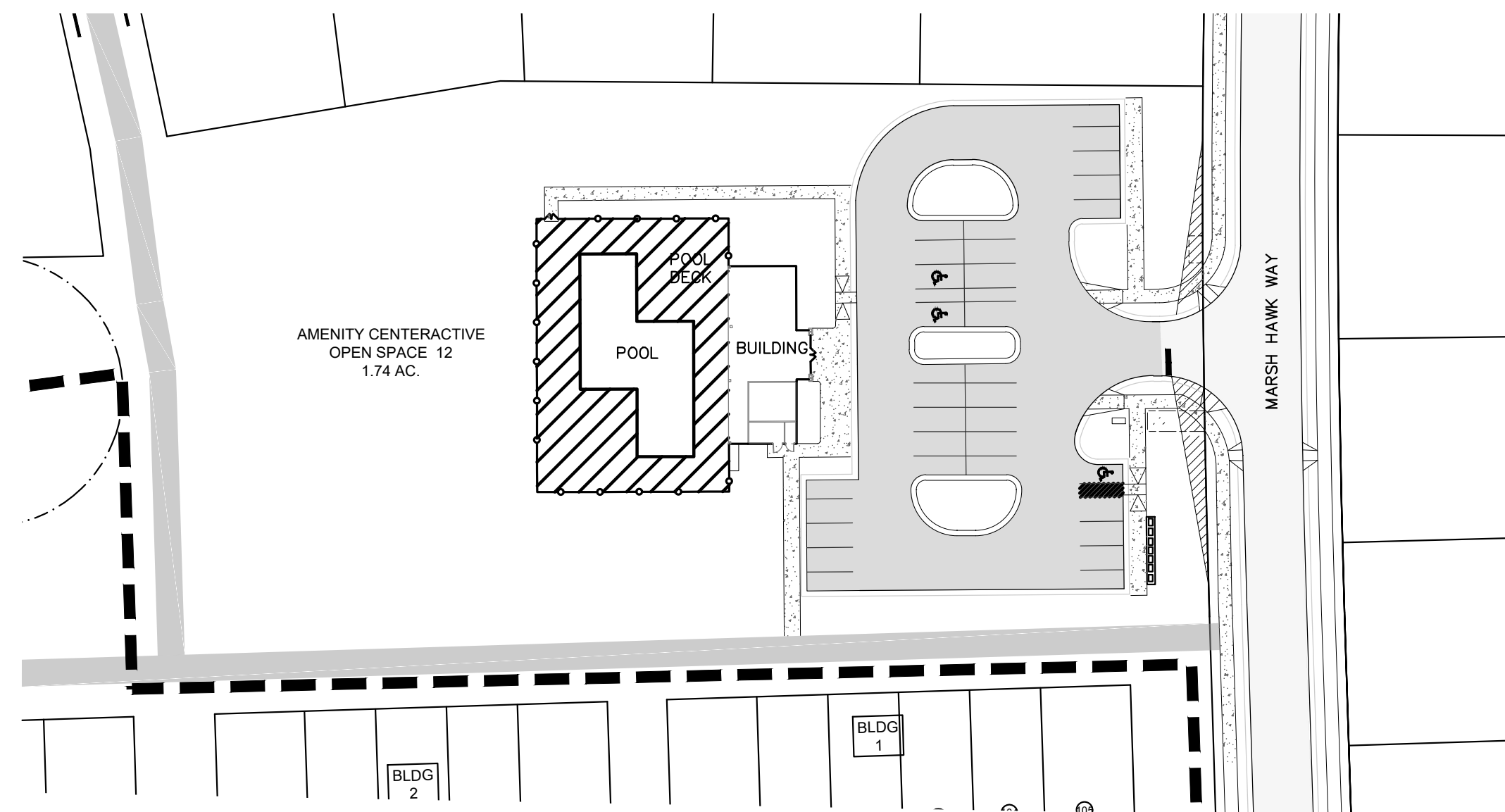
* PARKING IS BASED ON ROLESVILLE UDO. 1 SPOT FOR EVERY 300 SF GROSS FLOOR AREA OF THE POOL. FOR THE CLUBHOUSE, 1 SPOT FOR EVERY 100 SF GROSS FLOOR AREA.

TRACT "A" (SINGLE FAMILY DETACHED)
NUMBER OF UNITS: 100
CLUSTER MAILBOX UNITS:
REQUIRED: 4 SPACES (79-104 DWELLING UNITS)
PROPOSED: 5 SPACES AT AMENITY CENTER

EXISTING TRACT DATA:

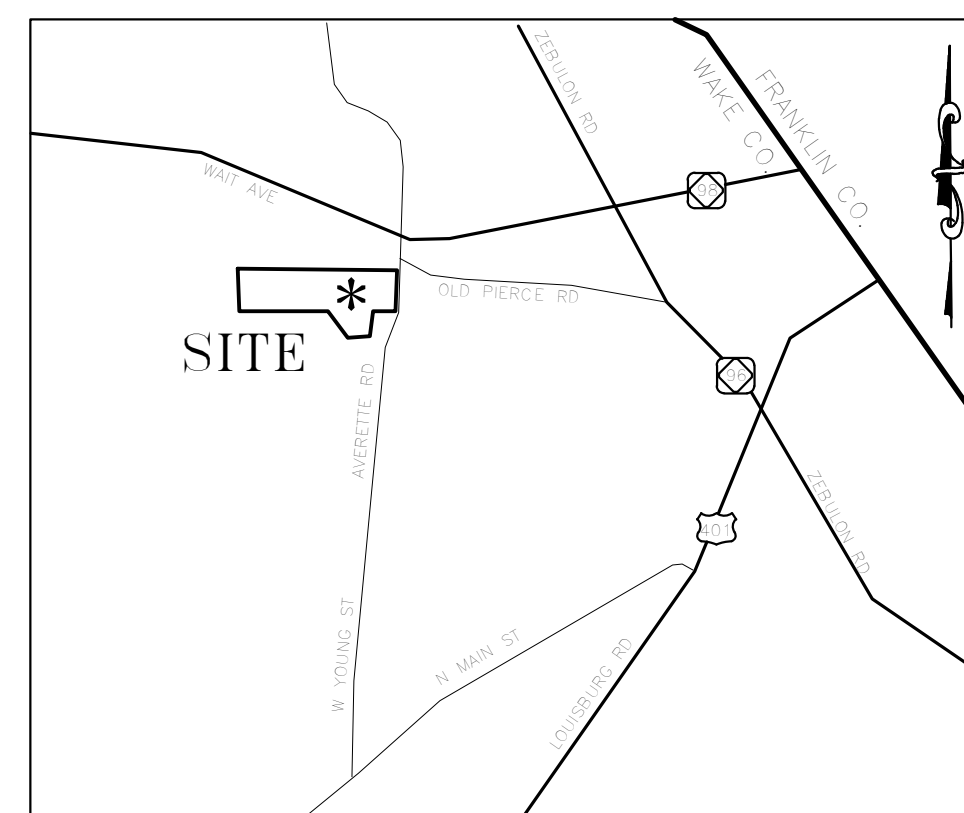
NC PIN: 1860-03-8619
DEED REFERENCE: DB 017035, PG 01542
REAL ESTATE ID: 0002813

TOTAL TRACT AREA: 82.22 AC
AREA WITHIN ROW: 0.61 AC
NEW TOTAL AREA: 81.61 AC
ZONING: R & PUD, R40W
EXISTING USE: VACANT / UNDEVELOPED WOODS
TOTAL AMENITY CENTER AREA: 1.74 AC



PROJECT PLAN

GRAPHIC SCALE
1 inch = 50 ft.



VICINITY MAP (NTS)

| EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT | |
|---|--|
| APPROVED | |
| EROSION CONTROL | <input checked="" type="checkbox"/> S-EC--011532--2019 |
| STORMWATER MGMT. | <input checked="" type="checkbox"/> S-WF--011530--2019 |
| FLOOD STUDY | <input type="checkbox"/> S- |
| DATE | LAND DISTURBANCE PERMITTED IN TRACT A |
| ENVIRONMENTAL CONSULTANT SIGNATURE | |

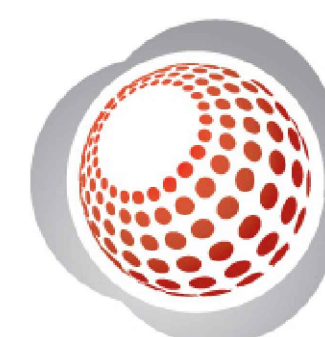
NOTE: 93,244 SF WAS INCLUDED IN ORIGINAL PERMIT FOR AMENITY CENTER IMPERVIOUS

SP 20-01 Elizabeth Springs Amenity Center
APPROVED
Date: July 6, 2022
Meredith Gruber
Town of Rolesville Planning Department

DEVELOPER:
EXPERIENCE ONE
3121 HIGHWAY 64
APEX, NC 27523

OWNER:
EXPERIENCE ONE
3121 HIGHWAY 64
APEX, NC 27523

ENGINEER:
TOM SPEIGHT, PE
BATEMAN CIVIL SURVEY COMPANY
2524 RELIANCE AVE.
APEX, NC 27539



Bateman Civil Survey Company

Engineers • Surveyors • Planners

2524 Reliance Avenue, Apex, North Carolina 27539

Phone: 919.577.1080 Fax: 919.577.1081

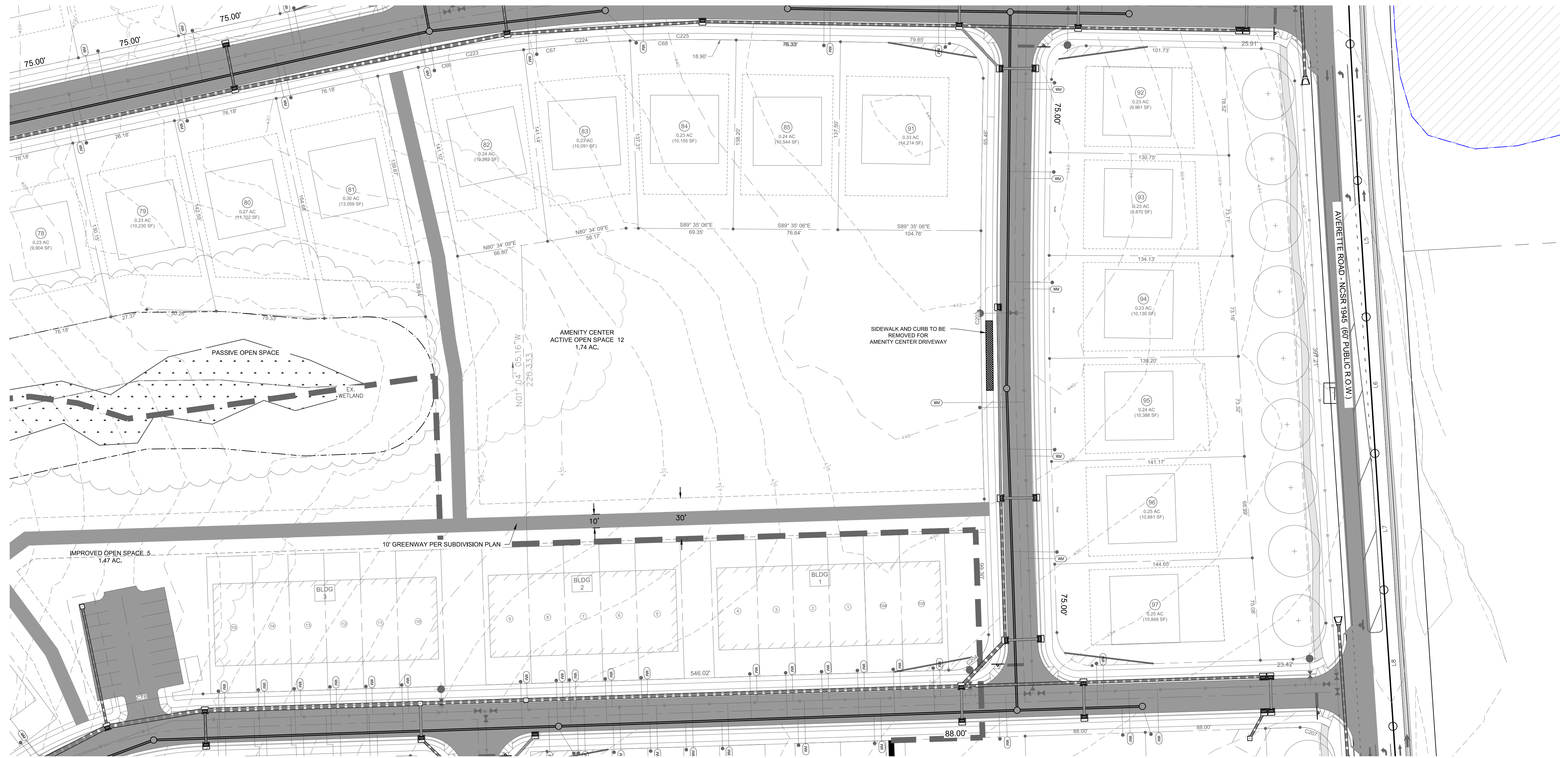
NCBELS FIRM No. C-2378

PROJECT NUMBER: 170348

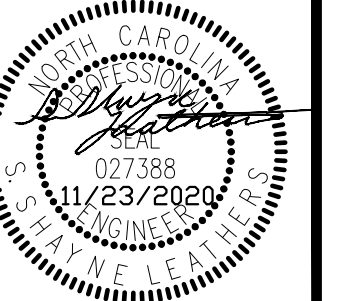


PRELIMINARY
NOT RELEASED
FOR CONSTRUCTION
01/29/2020

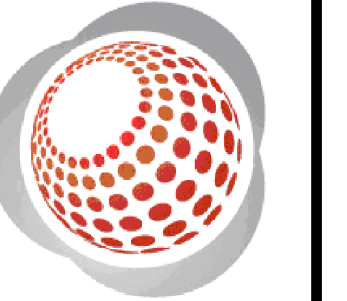
KNOW WHAT IS BELOW
CALL BEFORE YOU DIG C000 - COVER



NORTH Referenced to N.C. GRID (NAD 83)



Bateman Civil Survey Company
 Engineers • Surveyors • Planners
 2524 Reliance Avenue, Apex, North Carolina 27539
 Phone: 919 577 1080 Fax: 919 577 1081
 NCBEIS FRM No. C-2376



ELIZABETH SPRINGS
AMENITY CENTER
 1205 AVERETTE ROAD
 WAKE FOREST, NC 27687
 WAKE COUNTY, NC

EXISTING CONDITIONS PLAN

| | |
|-------------------|------------|
| Project Engineer: | SL |
| Designed By: | WKB |
| Drawn By: | WKB |
| Checked By: | SL |
| Scale: | 1"=40' |
| Date: | 11/23/2020 |
| Project Number: | 170348 |

SHEET
C101

LEGEND:

- EXISTING POND
- EXISTING WETLAND
- EXISTING WATERSHED (R-40W)
- EXISTING STREAM / TOP OF BANK
- EXISTING 50' NEUSE RIVER BASIN RIPARIAN BUFFER

NOTES

1. PER FEMA MAPS 372018500J & 3720186000J FOR NORTH CAROLINA, THERE ARE NO FLOOD HAZARD AREAS WITHIN THE DEVELOPMENT BOUNDARIES.
2. EXISTING BOUNDARY TAKEN FROM A SURVEY BY BATEMAN CIVIL SURVEY COMPANY ON AUG. 8, 2017.
3. EXISTING TOPOGRAPHY DOWNLOADED FROM WAKE COUNTY GIS.
4. AMENITY CENTER TO BE BUILT AFTER PHASE 1 CONSTRUCTION. CONTRACTOR TO ESTABLISH AND RECORD PHASE 1 STREETS BEFORE AMENITY CENTER BEGINS.

| REV. NO. | DESCRIPTIONS | REVISIONS |
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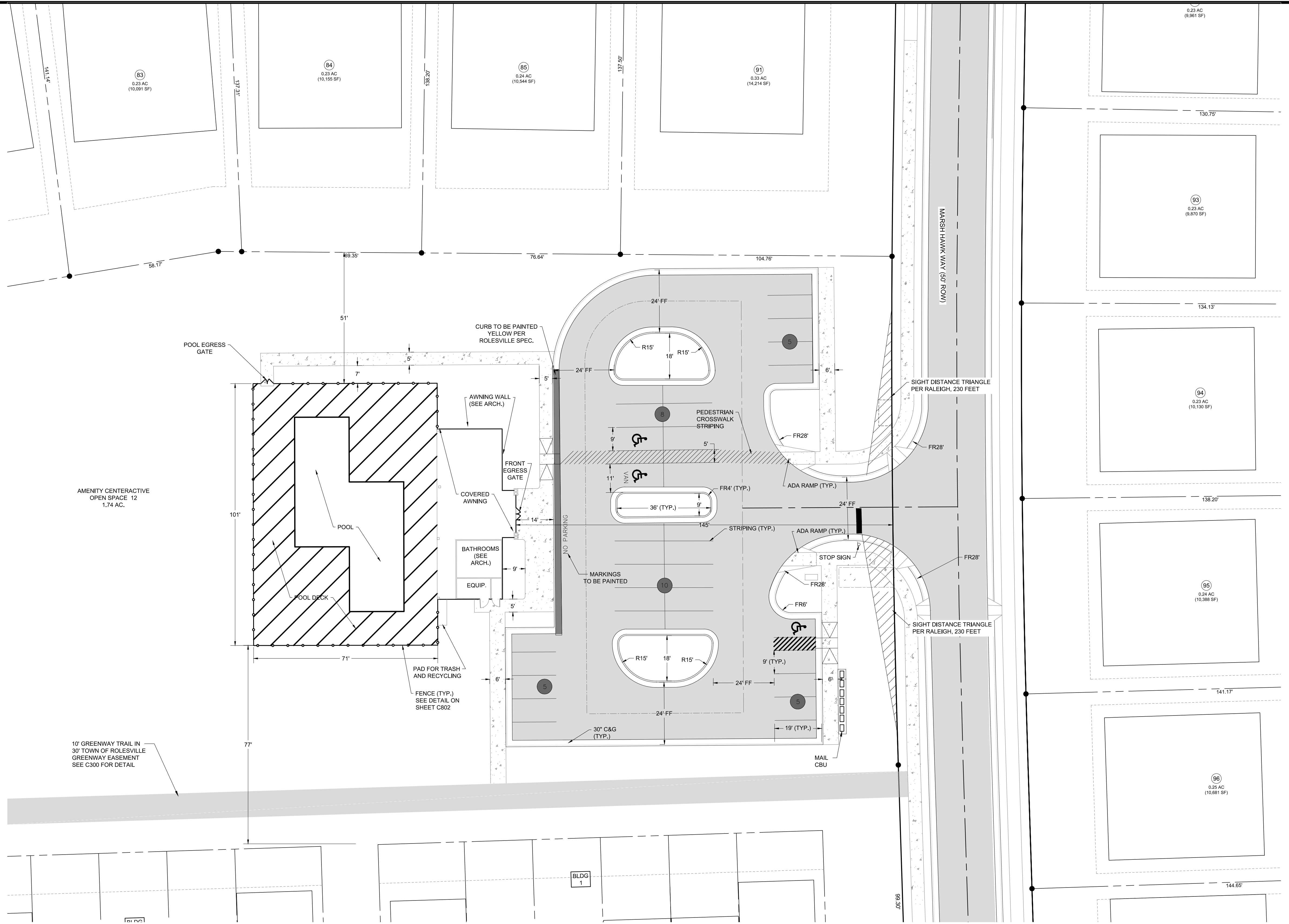


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 CALL BEFORE YOU DIG



SITE NOTES:

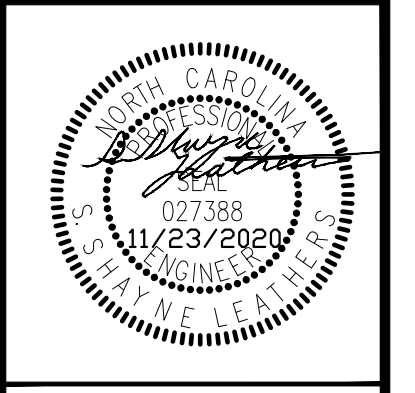
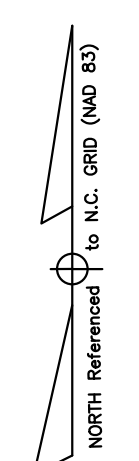
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE CONSTRUCTION LAYDOWN AREA, PERIMETER FENCE, AND ASSOCIATED GATES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE REMOVAL OF THE CONSTRUCTION LAYDOWN AREA PERIMETER FENCE AND ASSOCIATED GATES AT THE COMPLETION OF THE PROJECT.
2. THE CONTRACTOR SHALL REFERENCE THE DESIGN PLANS FOR DIMENSIONS, JOINT LOCATIONS, AND INLAY SPECIFICATIONS NEAR BUILDINGS AND IN COURTYARDS. CONTRACTOR SHALL PROVIDE JOINTS IN WALKWAYS AND HARDCAPE PER DETAILS OR AS INDICATED ON LANDSCAPE/HARDCAPE PLAN SHEETS.
3. ALL CONSTRUCTION TRAFFIC SHALL ENTER SITE FROM MARSHHAWK WAY UNLESS OTHERWISE APPROVED IN WRITING FROM THE OWNER'S REPRESENTATIVE FOR AN ALTERNATE POINT OF ACCESS.
4. REFER TO ARCHITECTURAL PLANS FOR BUILDING INFORMATION.
5. ALL DIMENSIONS ARE IN DECIMAL FEET TO OUTSIDE FACE OF BUILDINGS, TO CENTERLINES, AND/OR FACE OF CURB UNLESS OTHERWISE NOTED.
6. THIS SITE IS LOCATED IN THE NEUSE RIVER BASIN AND STREET DESIGNS MUST MEET TOWN OF ROLESVILLE REQUIREMENTS.
7. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND COORDINATES AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO ANY CONSTRUCTION.
8. ALL WRITTEN DIMENSIONS SHALL PREVAIL. DO NOT SCALE FROM DRAWINGS.
9. ALL UTILITIES WITH SURFACE ACCESS SHALL BE LOCATED WITHIN THE PAVING PATTERN AND SHALL BE COORDINATED WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. REFER TO LAYOUT DRAWINGS.
10. ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED.
11. ALIGN ALL JOINTS, CORNERS, AND EDGES AS SHOWN.
12. CONTRACTOR SHALL REFER TO AND COORDINATE WITH ARCHITECTURAL, STRUCTURAL, AND MEP DRAWINGS AT ALL TIMES PRIOR TO AND DURING CONSTRUCTION.
13. ALL CURB TAPERS ARE SIX (6') FEET LONG UNLESS OTHERWISE SHOWN ON PLAN.
14. WHERE NEW SIDEWALK ADJOINS EXISTING WALK, PROVIDE EXPANSION JOINT BY DRILLING INTO THE FACE OF THE EXISTING WALK FOR PLACEMENT OF DOWELS. THE NEW SIDEWALKS INTO NEAREST EXISTING PAVEMENT JOINT; MATCH WIDTH OF EXISTING WALKWAY.
15. WHERE SIDEWALK OR WALKWAYS ARE ADJACENT TO PARKING SPACES THE WALKWAY SHALL BE A MINIMUM 6' WIDE AS MEASURED FROM THE FACE OF CURB.
16. MAXIMUM RUNNING SLOPE FOR WALKING SURFACES CANNOT BE GREATER THAN 1:20 AND CROSS SLOPES CANNOT BE GREATER THAN 1:48. HANDICAP SPACES SURFACE SLOPES SHALL NOT EXCEED 1:48 IN ALL DIRECTIONS.
17. SIGHT TRIANGLES - NOTHING OVER 30" HIGH SHALL BE ALLOWED WITHIN THE SIGHT DISTANCE TRIANGLES.
18. THE SITE SHALL BE FULLY STABILIZED (90% COVERAGE) PRIOR TO ISSUANCE OF A BUILDING CERTIFICATE OF OCCUPANCY OR PROJECT APPROVAL.
19. HANDICAP RAMPS SHALL BE INSTALLED PER LATEST EDITION OF THE NC BUILDING CODE AND ANSI 117.11 WITH DETECTABLE WARNING DOMES WITH A COLOR CONTRAST OF 70% MINIMUM. SEE DETAILS AND GRADING SPOT ELEVATIONS, IF THE EXISTING CONDITIONS PRECLUDE THE ABILITY TO PROVIDE A MAXIMUM SLOPE 1/12 FOR 6'-FEET OR A MAXIMUM CROSS SLOPE OF 1:48 AND A 36" MINIMUM LANDING, THE CONTRACTOR SHALL NOTIFY ENGINEER OR OWNER REPRESENTATIVE PRIOR TO INSTALLATION.
20. THE TESTING AGENCY SHALL BE RESPONSIBLE FOR PROVIDING THE ASPHALT AND CONTRACTOR CERTIFICATION MEMO TO NCDOT FOR ALL ROADWAY IMPROVEMENTS WITHIN THE PUBLIC RIGHT-OF-WAY.
21. THE MAINTENANCE OF ALL REQUIRED LANDSCAPING BY KEEPING LAWNS MOWED, ALL PLANTS MAINTAINED AS DISEASE FREE, AND ALL PLANTING BEDS GROOMED AND KEPT WEED FREE (EXCEPT IN AREAS OF PRESERVED EXISTING NATURAL VEGETATION (I.E. THICKETS), AND KEPT FREE FROM TRASH, DEBRIS AND OTHER OBJECTIONABLE MATERIALS; THE REPLACEMENT OF ANY REQUIRED PLANTING, WHICH IS REMOVED OR DIES AFTER THE DATE OF PLANTING. SUCH REPLACEMENT SHALL OCCUR DURING THE NEXT PLANTING SEASON; AND, THE REPLACEMENT OF ANY TREE IN A TREE SAVE AREA, WHICH IS REMOVED OR DIES AFTER THE DATE OF APPROVAL OF A PRESERVATION LANDSCAPE PLAN. SUCH REPLACEMENT SHALL OCCUR DURING THE NEXT PLANTING.
22. TRASH WILL BE HANDLED VIA RESIDENTIAL STYLE RECEPTACLES. TRASH WILL BE WHEELED TO R.O.W. FOR COLLECTION.



LEGEND

- PROPOSED ASPHALT
- PROPOSED SIDEWALK
- PROPOSED EASEMENT
- PROPOSED FENCE
- PROPOSED STRIPING
- PARKING COUNT

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AMENITY CENTER
 1205 AVERETTE ROAD
 WAKE FOREST, NC 27687
 WAKE COUNTY, NC

SITE PLAN

Project Engineer: SL
 Designed By: WKB
 Drawn By: WKB
 Checked By: SL
 Scale: 1"=20'
 Date: 11/23/2020
 Project Number: 170348

SHEET
C300

GRADING & STORM DRAINAGE NOTES:

- REFER TO SHEET C3.00 FOR GENERAL NOTES.
- CONTRACTOR SHALL REPORT ANY GRADE DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION OPERATIONS.
- THE MAXIMUM SLOPE ALONG ANY HANDICAP ACCESSIBLE PATHWAY SHALL NOT EXCEED 5.0% AND SHALL NOT EXCEED A 2.0% CROSS SLOPE. HANDICAP RAMPS INDICATED ON PLANS SHALL BE A MAXIMUM OF 1/12 SLOPES WITH A MAXIMUM RISE OF 30" BETWEEN LANDINGS. NON-CURB CUT RAMPS SHALL HAVE HANDRAILS AND GUARDS PER DETAILS WITH 5' LANDINGS AT THE BOTTOM AND TOP OF RAMP.
- ALL PROPOSED ELEVATIONS SHOWN ARE EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE SPECIFIED.
- ALL AREAS WHERE UNPAVED AREAS SLOPE ONTO PAVED AREAS, A 2' WIDE FLAT AREA WITH A SLOPE OF 2% TOWARDS THE PAVED AREA SHALL BE PROVIDED TO PREVENT ORGANICS WASHOUT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL NEWLY CONSTRUCTED STORM DRAINAGE IMPROVEMENTS AND RECEIVING STORM DRAINAGE SYSTEMS REMAIN CLEAN OF SEDIMENT AND DEBRIS. PRIOR TO OWNER ACCEPTANCE OF SYSTEM, THE CONTRACTOR SHALL COORDINATE AND PROVIDE A VISUAL OBSERVATION VIDEO OF ALL STORM DRAINAGE IMPROVEMENTS 12" AND LARGER. THE VISUAL OBSERVATION SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE TWO (2) DVD COPIES OF THE ENTIRE DRAINAGE VISUAL OBSERVATION.
- PRIOR TO ISSUANCE OF A BUILDING CERTIFICATE OF OCCUPANCY THE CONTRACTOR SHALL PROVIDE THE OWNER WITH THE VIDEO INSPECTION OF THE STORM SEWER SYSTEM. (BOTH PUBLIC AND PRIVATE). THIS SUBMITTAL MAY NEED TO BE REVIEWED AND ACCEPTED BY THE LOCAL JURISDICTION PRIOR TO THE ISSUANCE OF THE BUILDING CO.
- REFER TO THE EROSION CONTROL DETAILS SHEET FOR THE SEQUENCE OF CONSTRUCTION.
- INTERIM GRADING SHALL BE PROVIDED THAT ENSURES THE PROTECTION OF STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, AND WASHOUT.
- INTERIM GRADING SHALL BE PROVIDED TO DIRECT WATER AWAY FROM BUILDINGS AND PREVENT PONDING.
- MAXIMUM SLOPE ACROSS ANY HANDICAPPED PARKING SPACE AND AISLE SHALL NOT EXCEED 2% IN ANY DIRECTION.
- PROPOSED CONTOURS ARE APPROXIMATE. SPOT ELEVATIONS AND ROADWAY PROFILES SHALL BE USED IN CASE OF DISCREPANCY.
- PLACE BACKFILL AND FILL MATERIALS IN LAYER NOT MORE THAN 8 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS. PLACE BACKFILL AND FILL MATERIALS EVENLY ON ALL SIDES TO REQUIRED ELEVATIONS, AND UNIFORMLY ALONG THE FULL LENGTH OF EACH STRUCTURE. COMPACT SOIL TO NOT LESS THAN 95 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 698 FOR EACH LAYER OF BACKFILL OR FILL MATERIAL UP TO TWO FEET OF FINISHED GRADE. COMPACT SOIL TO NOT LESS THAN 98 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 698 FOR EACH LAYER OF BACKFILL OR FILL MATERIAL FOR THE FINAL TWO FEET.
- SITE GRADING IMMEDIATELY ADJACENT TO FOUNDATION OF BUILDING SHALL SLOPE NOT LESS THAN 1/20 AWAY FOR MINIMUM DISTANCE OF 10 FEET. ALTERNATIVE METHOD SHALL BE PROVIDED TO DIVERT WATER AWAY FROM FOUNDATION VIA SWALES SLOPED AT A MINIMUM OF 2% OR IMPERVIOUS SURFACES SLOPED AWAY A MINIMUM OF 2% AWAY FROM BUILDING.
- CONTRACTOR SHALL ADJUST RIM ELEVATIONS OF EXISTING MANHOLES, METERS, VALVES, ETC. AS REQUIRED TO MEET NEW FINISHED GRADES.
- CONTRACTOR SHALL SLOPE GRADES TO ASSURE POSITIVE STROMWATER FLOW TO KEEP WATER FROM POOLING ALONG CURBS AND WALLS.
- ALL SPOTS IN PAVED CURB AREAS DENOTE ELEVATION OF BOTTOM OF CURB.
- ROOF LEADERS TO TIE TO 459-CB @ MIN. COVER

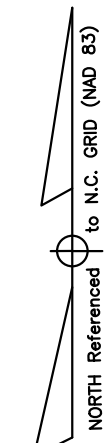
WAKE COUNTY CONSTRUCTION SEQUENCE:

- SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE WATERSHED MANAGER SCOTT REAMS VIA 919-868-4986. 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.
- CALL SCOTT REAMS VIA 919-868-4986 FOR AN ONSITE INSPECTION TO OBTAIN A CERTIFICATE OF COMPLIANCE.
- 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 DENUDEED AREAS PER GROUND STABILIZATION TIME FRAMES.
- WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL SCOTT REAMS VIA 919-868-4986 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 WATERSHED MANAGER SCOTT REAMS VIA 919-868-4986. OBTAIN A CERTIFICATE OF COMPLETION.

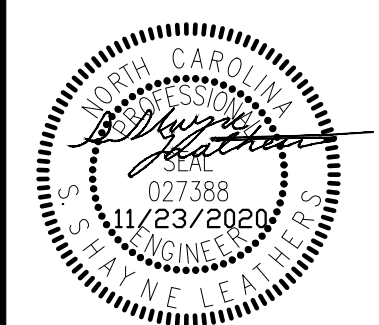
NOTE: EXISTING TOPOGRAPHY VIA SURVEY COMPLETED BY BATEMAN CIVIL SURVEY COMPANY.



- EXISTING MAJOR CONTOURS
- - - EXISTING MINOR CONTOURS
- PROPOSED MAJOR CONTOURS
- - - PROPOSED MINOR CONTOURS
- 436 CONTOUR LABEL
- ADA ACCESSIBLE PATH



| REV. NO. | DESCRIPTIONS | REVISIONS |
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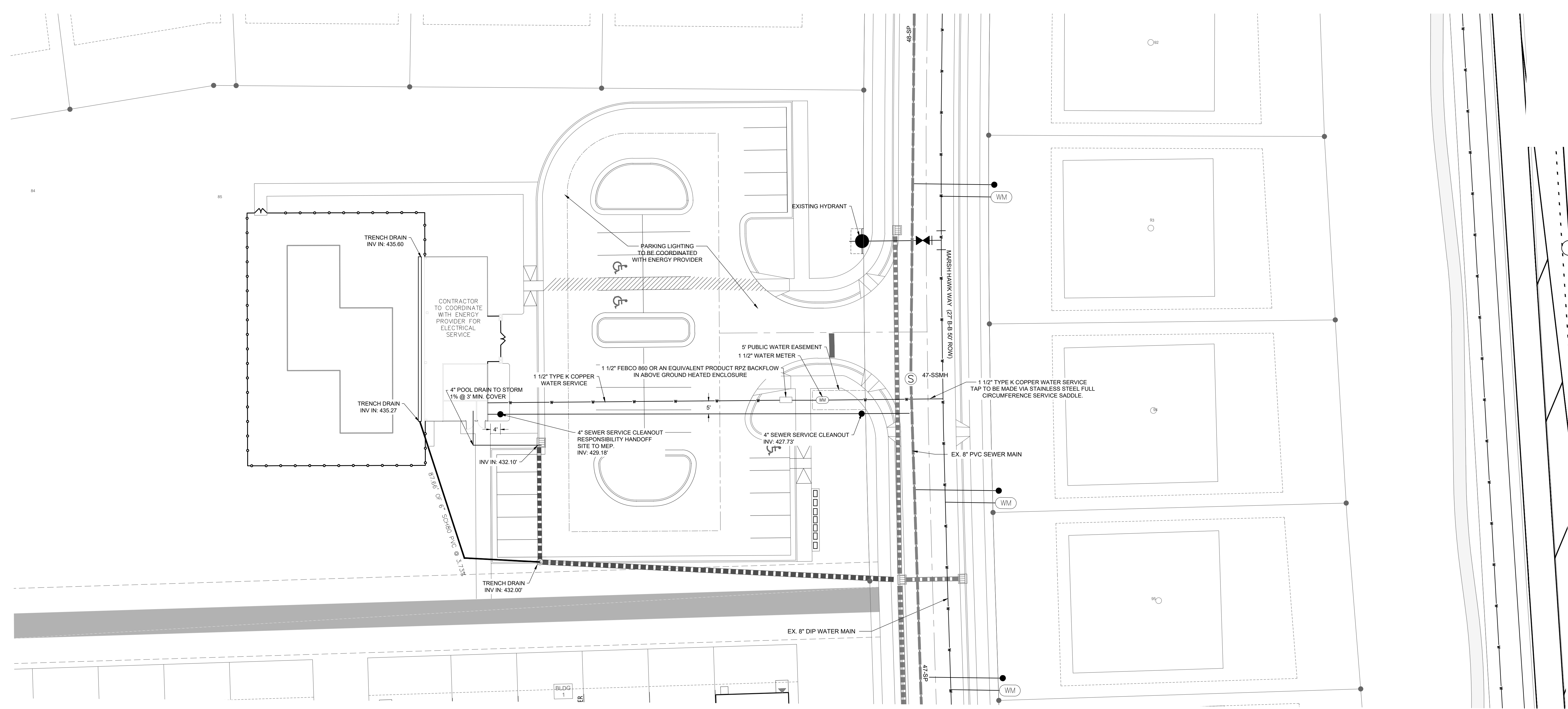


ELIZABETH SPRINGS
AMENITY CENTER
 1205 AVERETTE ROAD
 WAKE FOREST, NC 27687
 WAKE COUNTY, NC

GRADING PLAN

| | |
|-------------------|------------|
| Project Engineer: | SL |
| Designed By: | WKB |
| Drawn By: | WKB |
| Checked By: | SL |
| Scale: | 1"=20' |
| Date: | 11/23/2020 |
| Project Number: | 170348 |

SHEET
C310



SEWER NOTES:

- ALL PVC SEWER PIPES ARE TO BE SDR-35 SPEC. UNLESS SPECIFIED OTHERWISE.
- MINIMUM REQUIRED SLOPES FOR SEWER SERVICES:
 - 4" SEWER SERVICE - 2.00% SLOPE
 - 6" SEWER SERVICE - 1.00% SLOPE
 - 8" SEWER SERVICE - 0.50% SLOPE
- UNLESS OTHERWISE NOTED, LOCATE SANITARY SERVICE CLEANOUTS AT ALL HORIZONTAL OR VERTICAL CHANGES IN DIRECTION. MAXIMUM SPACING BETWEEN CLEANOUTS SHALL BE 75 FEET.
- SEWER LINES LESS THAN 3 FEET OF COVER SHALL BE CLASS 50 DUCTILE IRON PIPE. SEWER LINES WITH GREATER THAN 3 FEET OF COVER SHALL BE AS NOTED BELOW:
 - 4" SEWER SERVICE - SCH 80
 - 6" SEWER SERVICE - SCH 80
 - 8" SEWER SERVICE - SDR-35
- SEWER LINES UNDER CONSTRUCTION SHALL BE PROTECTED FROM DIRT, DEBRIS OR OTHER CONTAMINANTS ENTERING THE NEW SYSTEM. A MECHANICAL PLUG SHALL BE UTILIZED BOTH IMMEDIATELY UPSTREAM OF THE NEW CONSTRUCTION AND AT THE FIRST MANHOLE DOWNSTREAM IN THE EXISTING SYSTEM. EXISTING STRUCTURES, PIPING AND APPURTENANCES SHALL BE PROTECTED FROM ANY INFLOW OF WATER, DIRT OR DEBRIS DUE TO NEW CONSTRUCTION CONNECTING TO OR IN THE VICINITY OF THE EXISTING SYSTEM. CONTRACTOR TO REMOVE DEBRIS AND PLUG PRIOR TO OCCUPANCY.
- ARCHITECT WILL DESIGN FOR 4" PIPE TO PUMP SEWER FROM AMENITY CENTER TO STREET

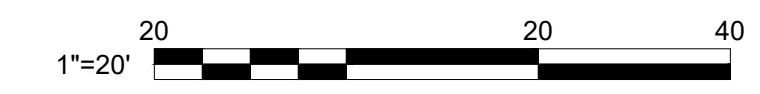
UTILITY NOTES:

- REFER TO SHEET C3.00 FOR GENERAL NOTES.
- THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION OF UNDERGROUND UTILITIES (WATER, SEWER, STORM, ELECTRICAL, GAS, OR OTHER) FOR THIS PROJECT WITH THE BUILDING PLANS. THE UTILITY CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE INSTALLATION OF ALL UTILITY SERVICES TO WITHIN FIVE (5) FEET OF THE BUILDING CONNECTION POINT.
- THE CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS ON SITE AND UTILITY PROVIDERS DURING CONSTRUCTION TO ENSURE SMOOTH TRANSITION BETWEEN DISCIPLINES.
- THE CONTRACTOR SHALL COORDINATE ALL PEDESTRIAN AND VEHICULAR INTERRUPTIONS WITH OWNER'S REPRESENTATIVE AT LEAST 72 HOURS PRIOR TO BEGINNING WORK.
- THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK INSIDE THE PUBLIC RIGHT OF WAY PRIOR TO RECEIPT AND COMPLIANCE WITH ALL APPLICABLE NCDOT PERMITS. ADDITIONALLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY FLAGGERS AND TRAFFIC CONTROL DURING ALL WORK INSIDE THE PUBLIC RIGHTS OF WAY.
- ALL EXISTING SUB-SURFACE UTILITIES IDENTIFIED ON THE CONSTRUCTION DOCUMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATION BASED ON SURVEY INFORMATION GATHERED FROM FIELD INSPECTION AND/OR ANY OTHER APPLICABLE RECORD DRAWINGS WHICH MAY BE AVAILABLE. DEPTHS OF EXISTING UTILITIES SHOWN IN PROFILE VIEWS ARE BASED ON STANDARD ASSUMPTIONS. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION, DEPTH, SIZE AND MATERIAL OF ANY AND ALL SUB-SURFACE CONDITIONS REFERENCED IN THESE PLANS PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES OR CONFLICTS.
- ELEVATIONS OF UTILITIES ARE GIVEN TO THE EXTENT OF INFORMATION AVAILABLE, WHERE ELEVATIONS ARE NOT GIVEN AT POINTS OF EXISTING UTILITY CROSSINGS, SUCH ELEVATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND REPORTED TO THE ENGINEER. WHEN UNKNOWN LINES ARE EXPOSED, THEIR LOCATIONS AND ELEVATIONS SHALL ALSO BE REPORTED TO THE ENGINEER.
- UNDERGROUND UTILITIES SHOWN ON THIS PLAN SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION OF PARKING AREA, DRIVES, CURBS AND GUTTER OR CONCRETE WALKS / PADS. IF UTILITIES SHOWN ON THIS PLAN CANNOT BE INSTALLED PRIOR TO INSTALLATION OF IMPERVIOUS (ASPHALT / CONCRETE) CONDUIT SHALL BE INSTALLED FOR THE 'FUTURE' UTILITY INSTALLATION.
- AS-BUILT DOCUMENTATION REQUIREMENTS: PRIOR TO APPROVAL FROM LOCAL JURISDICTION OR ENGINEER THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS (IN BOTH PAPER AND ELECTRONIC FORMAT (CAD / PDF) PREPARED AND SEALED BY A PROFESSIONAL LAND SURVEYOR SHOWING ALL UTILITY INSTALLATION, HORIZONTAL AND VERTICAL INFORMATION SHALL BE PROVIDED FOR WATER, SEWER, STORM INCLUDING ALL STRUCTURES, VALVES, HYDRANTS, AND OTHER APPURTENANCES.
- CONTRACTOR TO COORDINATE HOT BOX ELECTRICAL WITH BUILDING ELECTRICAL.
- WATER SHALL BE DECHLORINATED PRIOR TO DISCHARGE INTO STORM SYSTEM PER ROLESVILLE REQUIREMENTS.

WATER NOTES:

- AS INDICATED, ALL WATERLINES SHALL BE DUCTILE IRON PIPE MEETING THE REQUIREMENTS OF ANSI-AWWA C151 PRESSURE CLASS 350 OR SOFT COPPER TYPE K PIPE PER ASTM B88. IF PVC WATERLINE IS INDICATED ON THE PLANS IT SHALL MEET THE REQUIREMENTS OF AWWA C-900; CLASS 200.
- ALL WATERLINES SHALL HAVE A MINIMUM OF 3.5 FEET OF COVER.
- TESTING NOTES:
 - PRESSURE:** LEAKAGE SHALL NOT EXCEED THE MAXIMUM ALLOWABLE LEAKAGE SPECIFIED IN AWWA C 600. MINIMUM TEST PRESSURE SHALL BE 150 PSI FOR DOMESTIC AND 200 PSI FOR FIRE PROTECTION.
 - BACTERIOLOGICAL:** TWO SAMPLES FOR BACTERIOLOGICAL SAMPLING SHALL BE COLLECTED AT LEAST 24 HOURS APART. IF CONTAMINATION IS INDICATED, THEN THE DISINFECTION PROCEDURE AND TESTING SHALL BE REPEATED UNTIL SATISFACTORY RESULTS ARE OBTAINED.
- THE CHLORINE IN HEAVILY CHLORINATED WATER FLUSHED FROM MAINS NEEDS TO BE NEUTRALIZED BEFORE DISCHARGE. CONTRACTORS SHALL NEUTRALIZE HEAVILY CHLORINATED WATER FLUSHED FROM MAINS PRIOR TO DISCHARGE OR TRANSPORT ALL HEAVILY CHLORINATED WATER OFFSITE FOR PROPER DISPOSAL.
- PAINT VALVE COVERS, FIRE HYDRANTS AND OTHER WATER APPARATUS TO MEET THE LOCAL JURISDICTIONAL REQUIREMENTS.

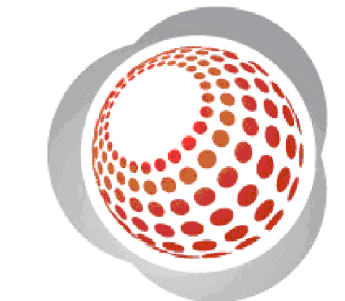
| REV. NO. | DESCRIPTIONS | REVISIONS |
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NORTH Reference to N.C. GRID (NAD 83)



Bateman Civil Survey Company
 Engineers • Surveyors • Planners
 2524 Reliance Avenue, Apex, North Carolina 27539
 Phone: 919.577.1080 Fax: 919.577.1081
 NGBELS FIRM No. C-2378

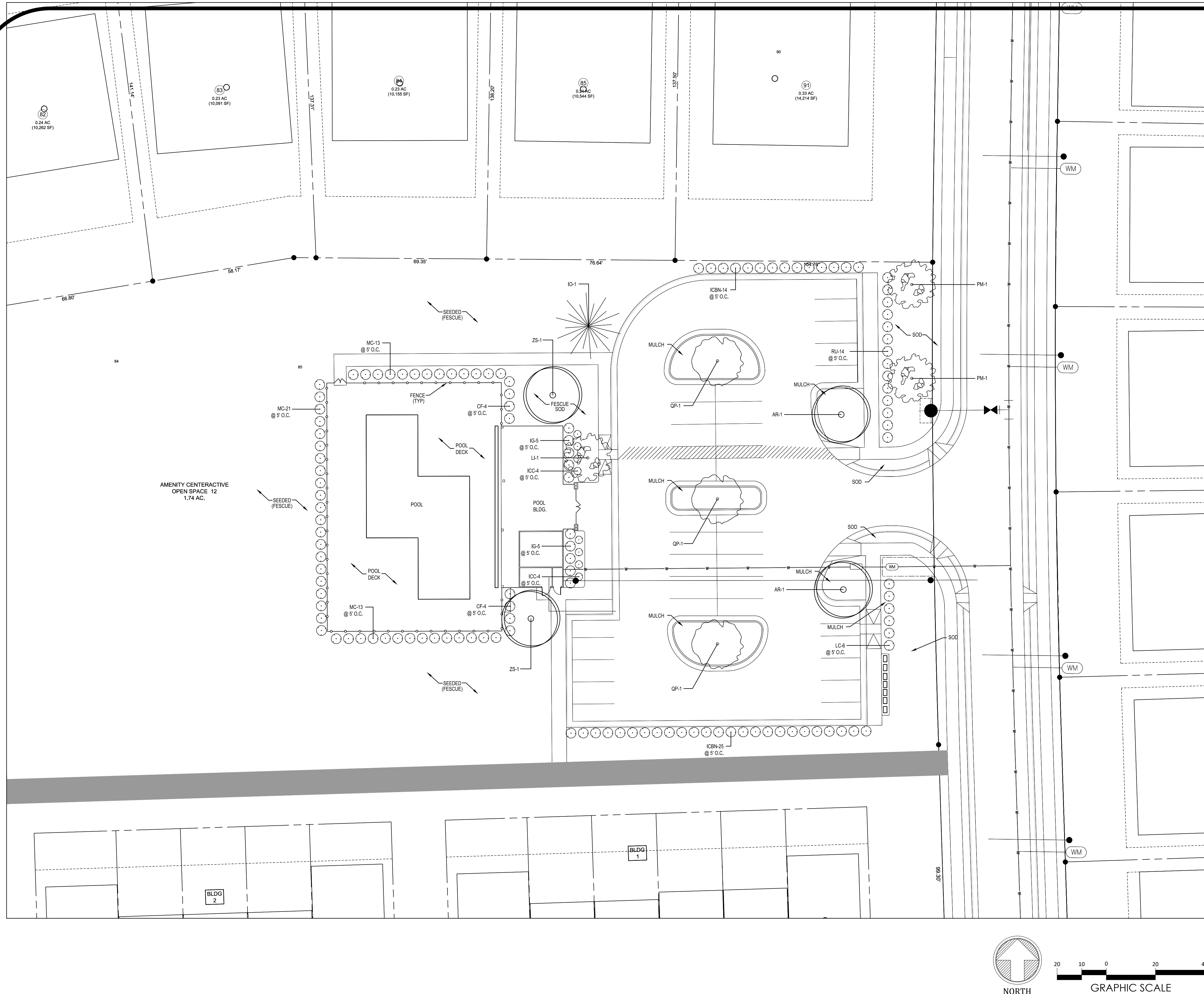


ELIZABETH SPRINGS
AMENITY CENTER
 1206 AVERETTE ROAD
 WAKE FOREST, NC 27787
 WAKE COUNTY, NC

UTILITY PLAN

| | |
|-------------------|------------|
| Project Engineer: | SL |
| Designed By: | WKB |
| Drawn By: | WKB |
| Checked By: | SL |
| Scale: | 1"=20' |
| Date: | 11/23/2020 |
| Project Number: | 170348 |

SHEET
C401



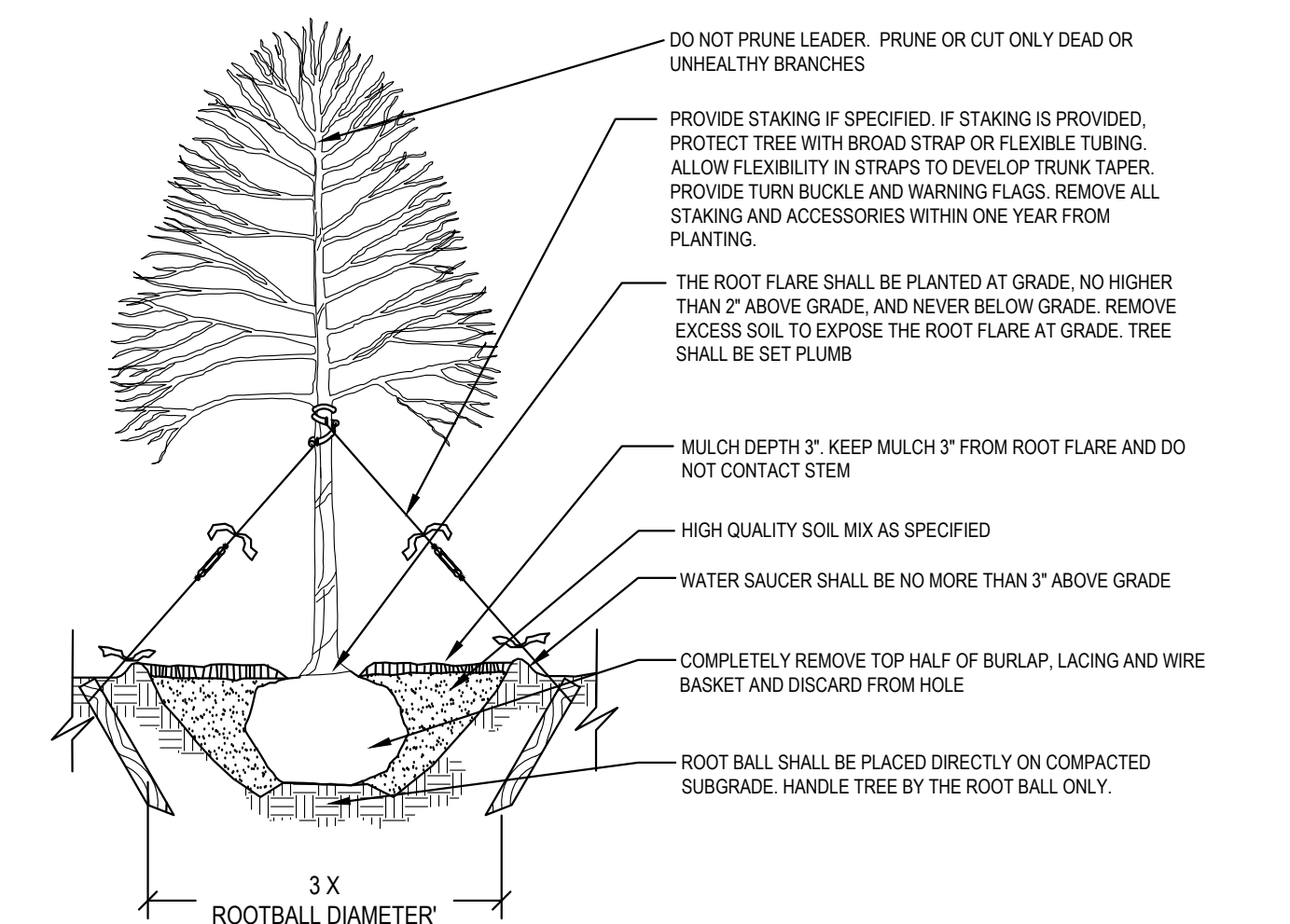
LANDSCAPE PLANTING NOTES

- ALL TECHNICAL SPECIFICATIONS AND GENERAL CONDITIONS APPLY. ALL GENERAL NOTES AND GENERAL CONSTRUCTION NOTES APPLY.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL QUANTITY TAKE-OFFS AND VERIFICATION OF MATERIALS AS SHOWN ON THESE PLANS AND IN WRITTEN SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO FINAL BIDDING OR INSTALLATION.
- THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING AND PROPOSED UNDERGROUND UTILITIES PRIOR TO THE INSTALLATION OF ANY PLANT MATERIAL.
- ALL LANDSCAPE MATERIALS SHALL CONFORM TO THE ACCEPTED STANDARDS ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INCLUDING THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1)
- PRIOR TO THE END OF EACH WORKING DAY, THE CONTRACTOR SHALL PROPERLY BACKFILL ALL PLANT MATERIAL THAT HAS BEEN PLACED IN PREPARED HOLES, AND PROPERLY WATER AND MULCH ALL PREPARED GROUND COVER, PERENNIAL AND ANNUAL BEDS.
- ALL TREES AND SHRUBS SHALL BE SOAKED WITH WATER AND MULCHED IMMEDIATELY FOLLOWING INSTALLATION.
- ALL ROOT BALLS REMOVED FROM CONTAINERS SHALL BE SCARIFIED BY HAND PRIOR TO PLACEMENT AND BACK FILLING WITH PREPARED SOILS. HAND TOOLS ARE NOT TO BE USED TO SCARIFY ROOT BALLS.
- ALL ROPE AND WRAPPING TWINE SHALL BE CUT AND REMOVED FROM AROUND THE UPPER PARTS OF THE ROOT BALL. METAL BASKET WIRES AND BURLAP SHALL BE PULLED BACK AND TUCKED UNDER THE EDGES OF THE SAUCER RINGS ON ALL TREES AND LARGE SHRUBS. ALL SYNTHETIC BURLAP SHALL BE REMOVED FROM PLANT BALLS PRIOR TO BACKFILLING.
- ALL PLANTING AREAS SHALL BE EDGED WITH SMOOTH, CONTINUOUS CURVES. PINE STRAW MULCH, IF SPECIFIED, SHALL BE ROLLED AND TUCKED ALONG PLANT BED EDGES.
- ALL PLANT MATERIAL SHALL BE PLANTED AT HEIGHTS AS ILLUSTRATED IN THE PLANTING DETAILS & PLANT LIST.
- TREE STAKING AND GUYING, IF NECESSARY, SHALL BE PERFORMED WITHIN A WEEK OF PLANTING. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TREE STAKING MATERIAL AFTER THE FIRST FULL GROWING SEASON OR ONE YEAR, WHICHEVER COMES FIRST.
- B & B AS LISTED UNDER "ROOT" IN THE PLANT LIST INDICATES BALLED AND BURLAPPED.
- ALL PLANT BEDS AND RAISED SAUCER RINGS SHALL BE GRADED TO PROVIDE ADEQUATE DRAINAGE AND SHALL BE MULCHED WITH TRIPLE SHREDED HARDWOOD MULCH.
- SEED AND SOD TO BE A TALL FESCUE VARIETY - REBEL SOUTHERN CLASSIC OR APPROVED EQUAL.

TOWN OF ROLESVILLE LANDSCAPE REQUIREMENTS

VEHICULAR USE AREA LANDSCAPING
 REQUIRED/PROVIDED: 1 LARGE (2.5' CAL) TREE WITHIN 60' OF EACH PARKING SPACE
 REQUIRED/PROVIDED: SCREEN FROM OFFSITE VIEWS WITH A CONTINUOUS 3' HGT EVERGREEN HEDGE. SHRUBS SHALL BE 24" HGT / 3 GAL SIZE AT INSTALLATION.

| KEY | QTY. | BOTANICAL NAME | COMMON NAME | SIZE | REMARKS |
|------------------------------------|------|--|---------------------|-------------------|-----------|
| CANOPY / UNDERSTORY TREE(S) | | | | | |
| ZS | 2 | ZELKOVA SERATTA 'VILLAGE GREEN' | JAPANESE ZELKOVA | 2' CAL. 8-10' HT. | |
| AR | 2 | ACER RUBRUM 'OCTOBER GLORY' | RED MAPLE | 2' CAL. 8-10' HT. | |
| QP | 3 | QUERCUS PHELLOS 'HIGHTOWER' | WILLOW OAK | 2' CAL. 8-10' HT. | |
| ID | 1 | ILEX OPACA | AMERICAN HOLLY | 8-10' HT. | |
| LI | 1 | LAGERSTROEMIA INDOICA 'CHEROKEE CHIEF' | CREPE MYRTLE | 8-10' HT. | 3-5 STEMS |
| PM | 2 | PRUNUS MUME 'PEGGY CLARKE' | JAPANESE APRICOT | 2' CAL. 8-10' HT. | |
| CF | 8 | CALYCANTHUS FLORIDUS | SWEET SHRUB | 24" | |
| RU | 14 | RAPHIOLEPSIS UMBELLATA 'MAJESTIC BEAUTY' | INDIA HAWTHORNE | 24" | |
| LC | 6 | LOROPETALUM CHINENSIS 'PURPLE DIAMOND' | LOROPETALUM | 24" | |
| ICBN | 39 | ILEX CORNUTA 'BURFORDI NANA' | DWARF BURFORD HOLLY | 24" | |
| IG | 10 | ILEX GLABERRA | INKBERRY HOLLY | 24" | |
| ICC | 8 | ILEX CORNUTA CONVEXA | CHINESE HOLLY | 24" | |
| MC | 47 | MYRICA CERIFERA | WAX MYRTLE | 36" | |



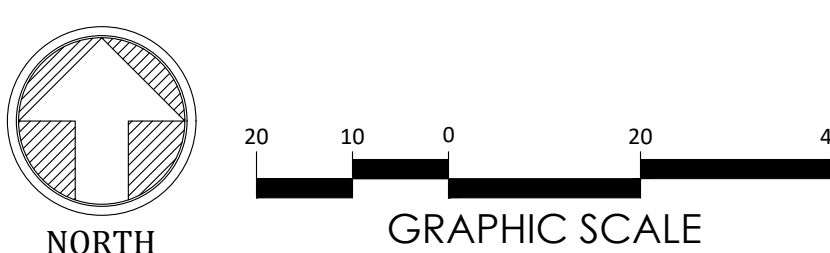
DECIDUOUS TREE PLANTING

- NOT TO SCALE
- PRUNE TO REMOVE DEAD OR BROKEN BRANCHES.
 - MAINTAIN SOIL LEVEL AT OR SLIGHTLY HIGHER THAN EXISTING GRADE, TO ALLOW FOR SETTLEMENT
 - PINE STRAW OR HARDWOOD MULCH AS SPECIFIED (3" - 4" DEPTH). DO NOT PLACE MULCH IN DIRECT CONTACT WITH TRUNK.
 - FORM CONTINUOUS 4" HIGH SAUCER
 - FINISHED GRADE
 - ROOT MASS - REMOVE CONTAINER AND LOOSEN ROOTS OF POTBOUND PLANTS BY SCORING OR PULLING.
 - SOIL MIX - SEE SPECIFICATIONS FOR DETAILS. WATER AND TAMP TO REMOVE AIR POCKETS.
 - UNDISTURBED SOIL. IF SOIL HAS BEEN DISTURBED, TAMP SOIL FOR FIRM BASE UNDER ROOT BALL. PROVIDE DRAINAGE AS NECESSARY.

NOTES:
 1. ALL TECHNICAL SPECIFICATIONS AND GENERAL CONDITIONS APPLY.
 2. REMOVE ALL TAGS, TWINE OR OTHER NON-BIODEGRADABLE MATERIALS ATTACHED TO PLANT OR ROOT MASS.

SHRUB PLANTING

NOT TO SCALE



Village Green Land Design
 1149 EXECUTIVE CIRCLE
 CARY, NC 27511
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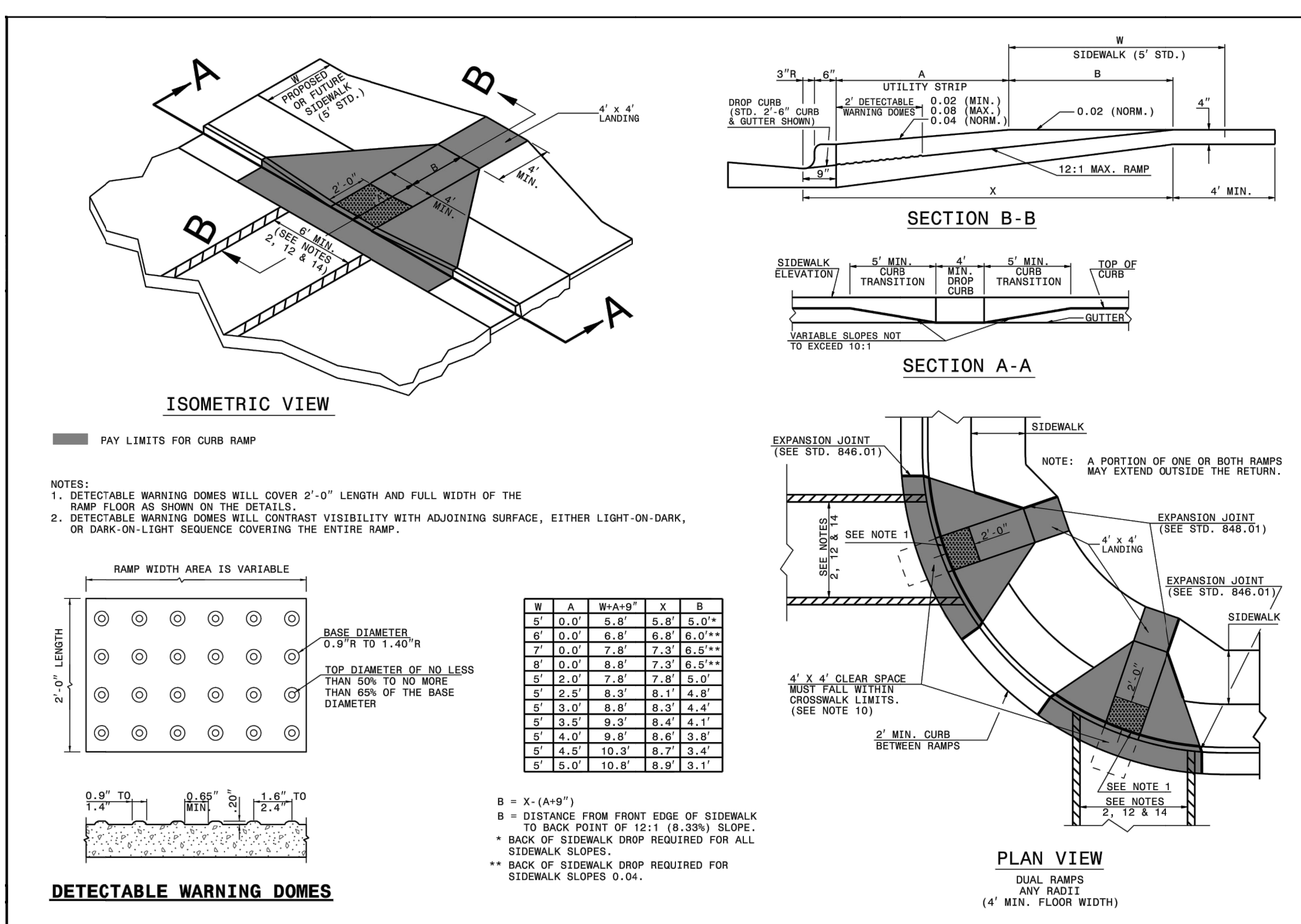
ELIZABETH HEIGHTS SUBDIVISION
 AMENITY CENTER
 CONSTRUCTION DRAWINGS
 ROLESVILLE, NC

LANDSCAPE PLAN

| SUBMITTAL: | DRAWN BY: | CHECKED BY: | DATE: |
|---------------|-----------|-------------|------------|
| 1ST SUBMITTAL | TMB | TMB | 2020.01.23 |
| 2ND SUBMITTAL | TMB | TMB | 2020.08.25 |
| 3RD SUBMITTAL | TMB | TMB | 2020.11.19 |

SEALED BY:

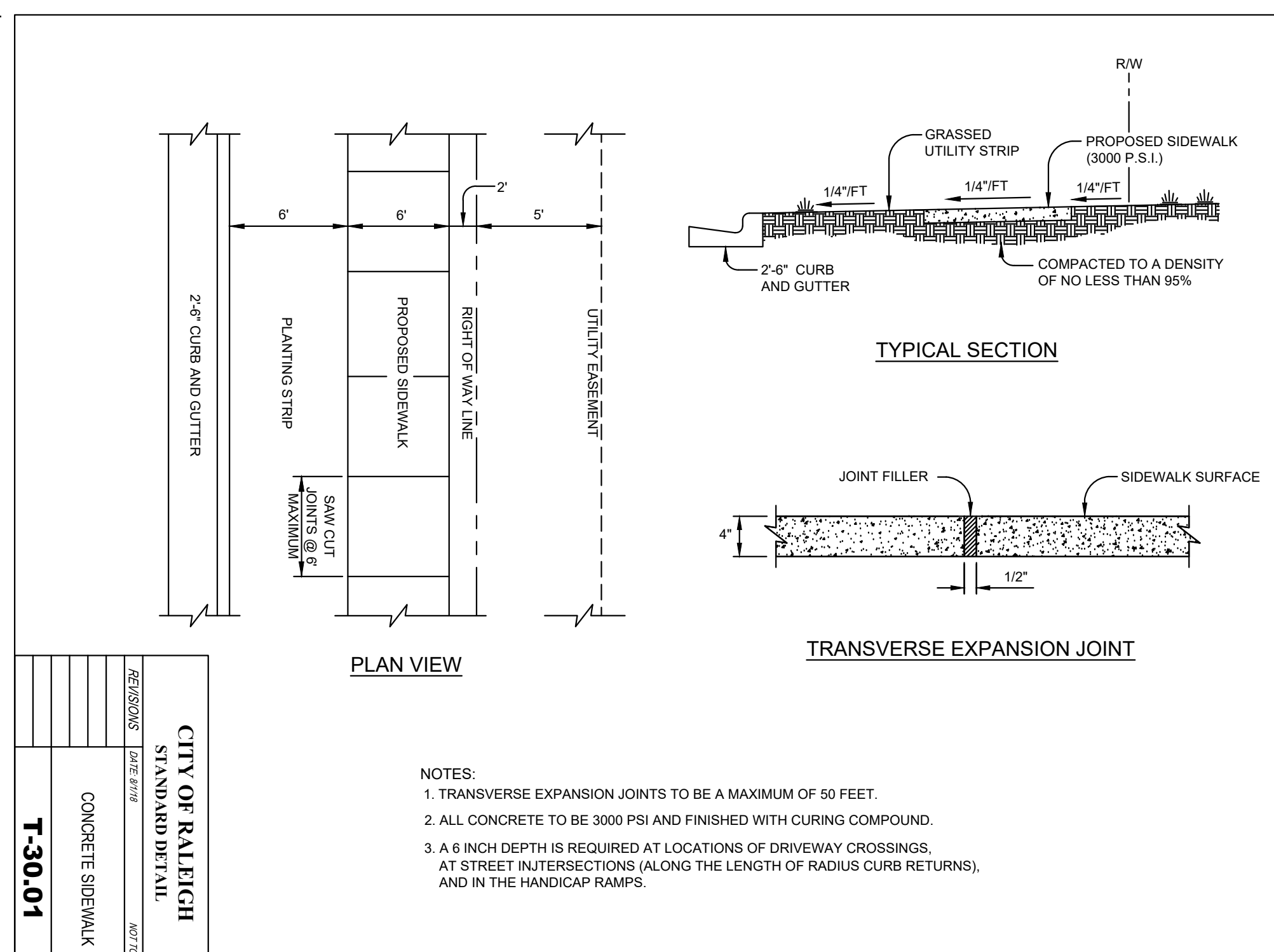
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STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N. C.

ROADWAY STANDARD DRAWING FOR
CURB RAMP
PROPOSED CURB AND GUTTER

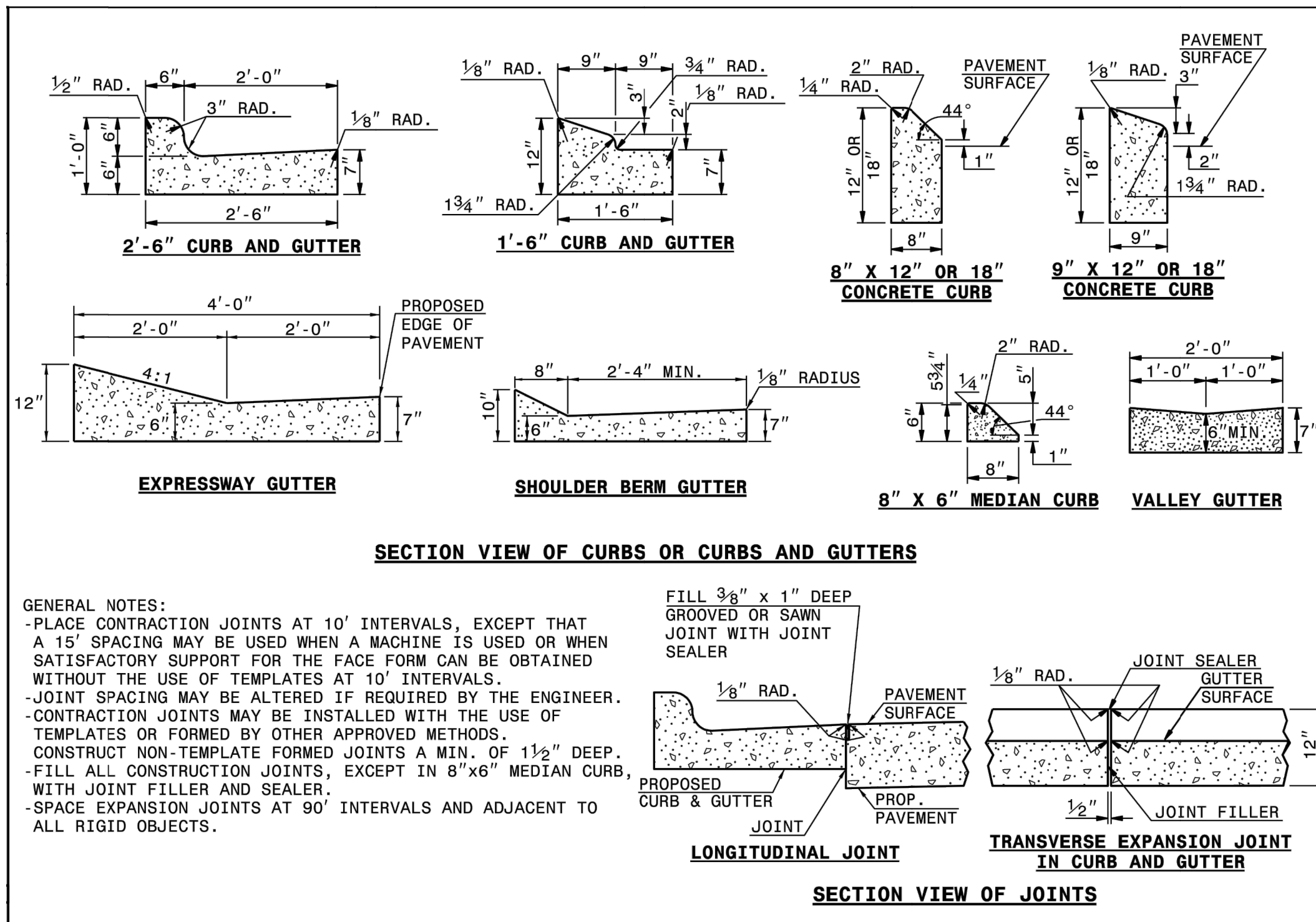
SHEET 1 OF 3
848.05



CITY OF RALEIGH
STANDARD DETAIL

CONCRETE SIDEWALK

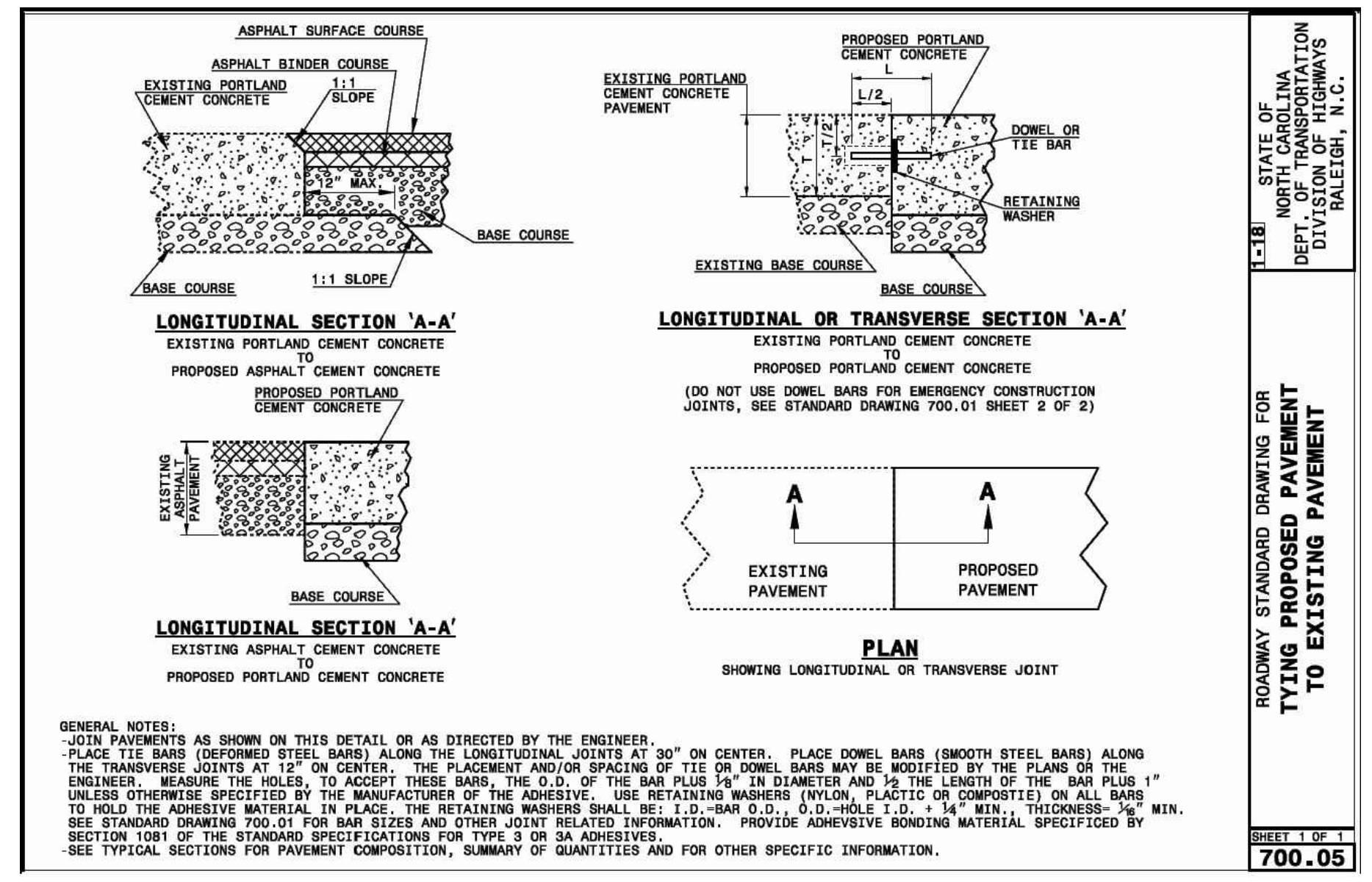
1-30-01



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

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

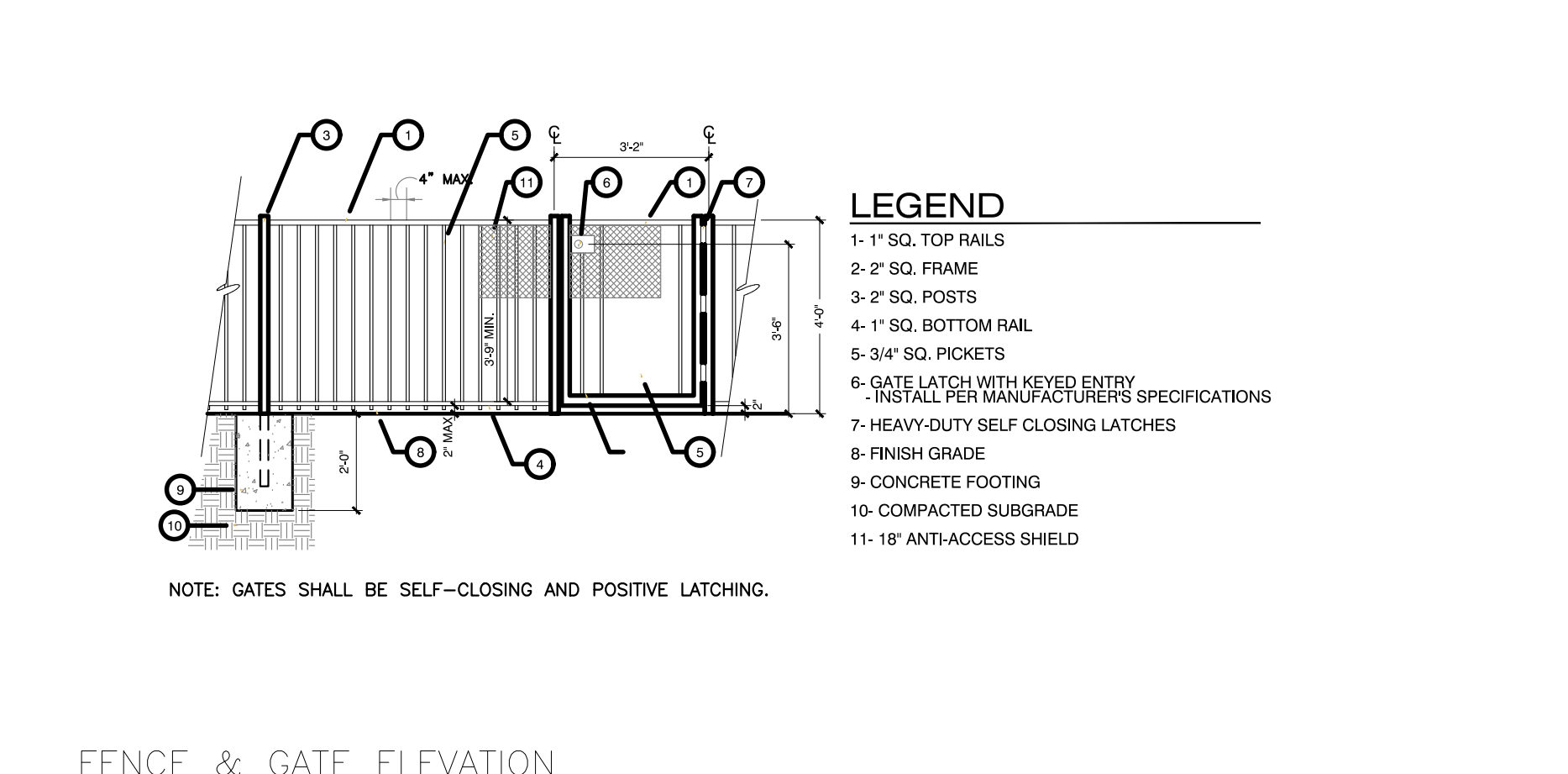
SHEET 1 OF 3
846.01



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

ROADWAY STANDARD DRAWING FOR
TYPING PROPOSED PAVEMENT TO EXISTING PAVEMENT

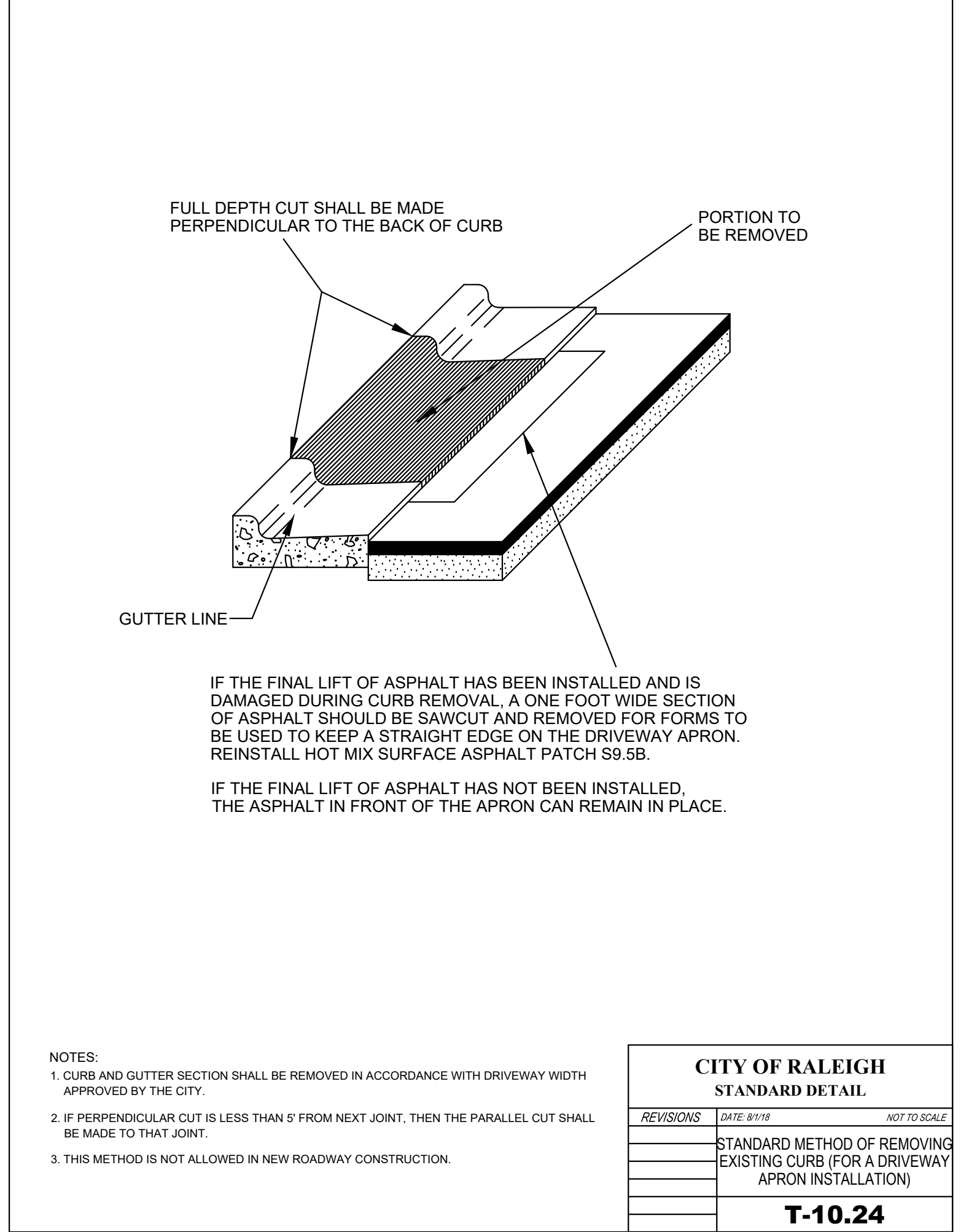
SHEET 1 OF 1
700.05



CITY OF RALEIGH
STANDARD DETAIL

CONCRETE SIDEWALK

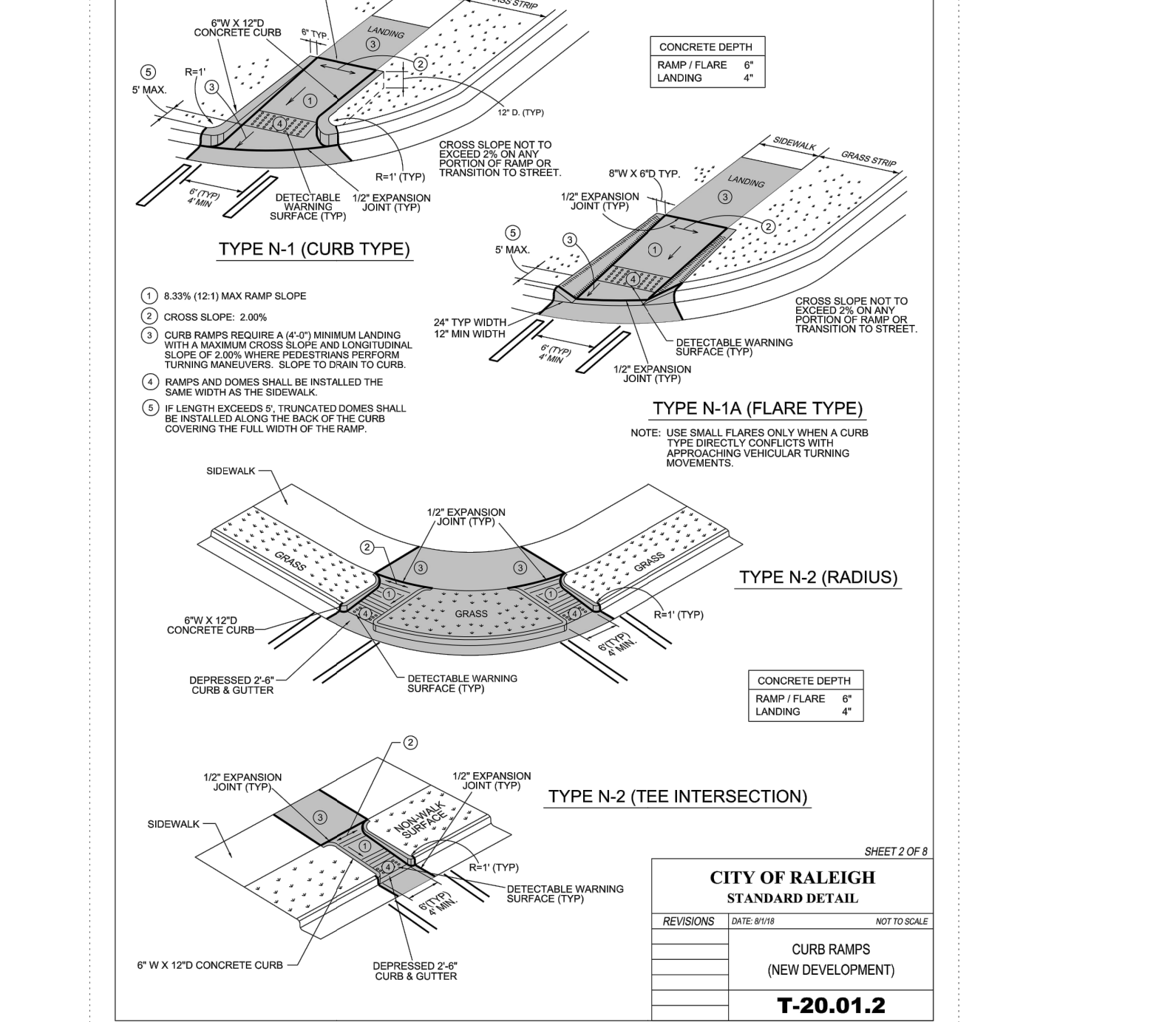
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STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N. C.

ROADWAY STANDARD DRAWING FOR
TYPING PROPOSED PAVEMENT TO EXISTING PAVEMENT

SHEET 1 OF 1
700.05



CITY OF RALEIGH
STANDARD DETAIL

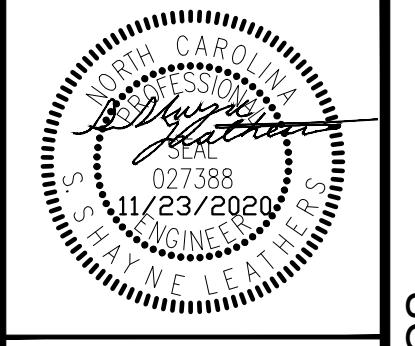
CONCRETE SIDEWALK

1-30-01

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01/29/2020



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Engineers • Surveyors • Planners
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NCEBELS FRM No. C-2376



ELIZABETH SPRINGS
CONSTRUCTION DRAWINGS

1205 AVERETTE ROAD
WAKE FOREST, NC 27687
WAKE COUNTY, NC

SITING/CDOT DETAILS

Project Engineer: SL
Designed By: WKB
Drawn By: WKB
Checked By: SL
Scale: NTS

Date: 11/23/2020

Project Number: .170348

SHEET
C802

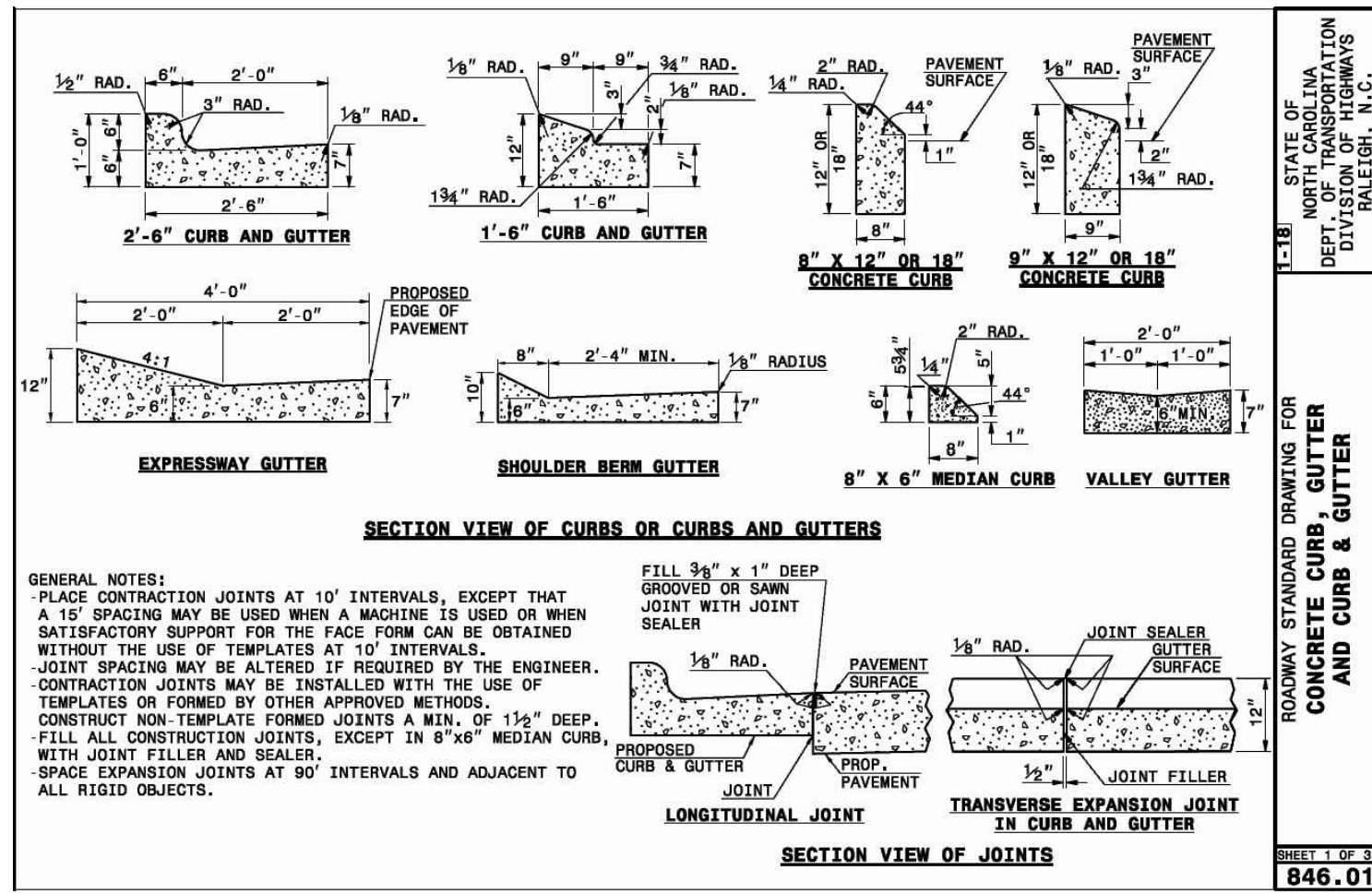
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Scale: NTS

Date: 11/23/2020

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C802

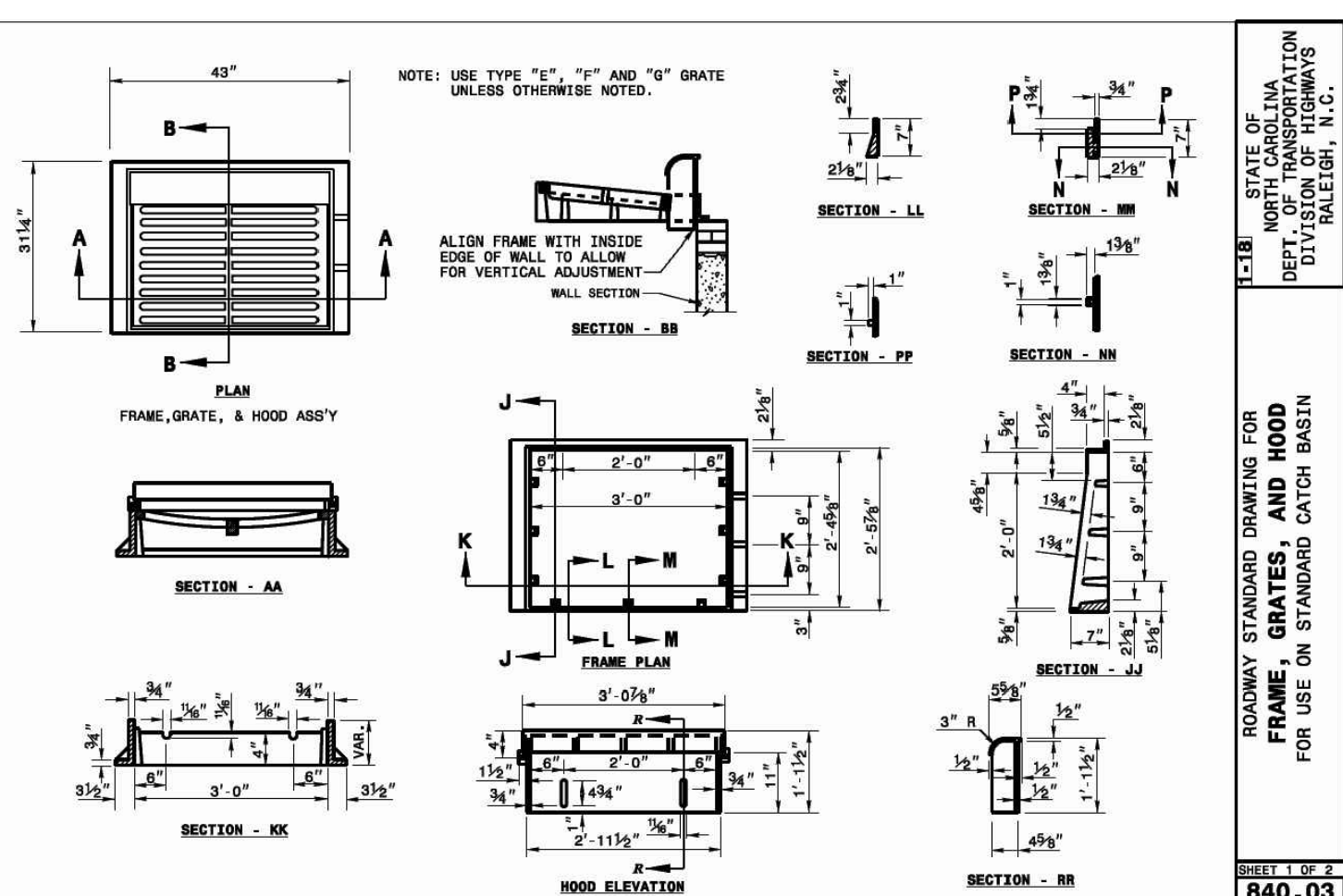
ELIZABETH SPRINGS



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

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

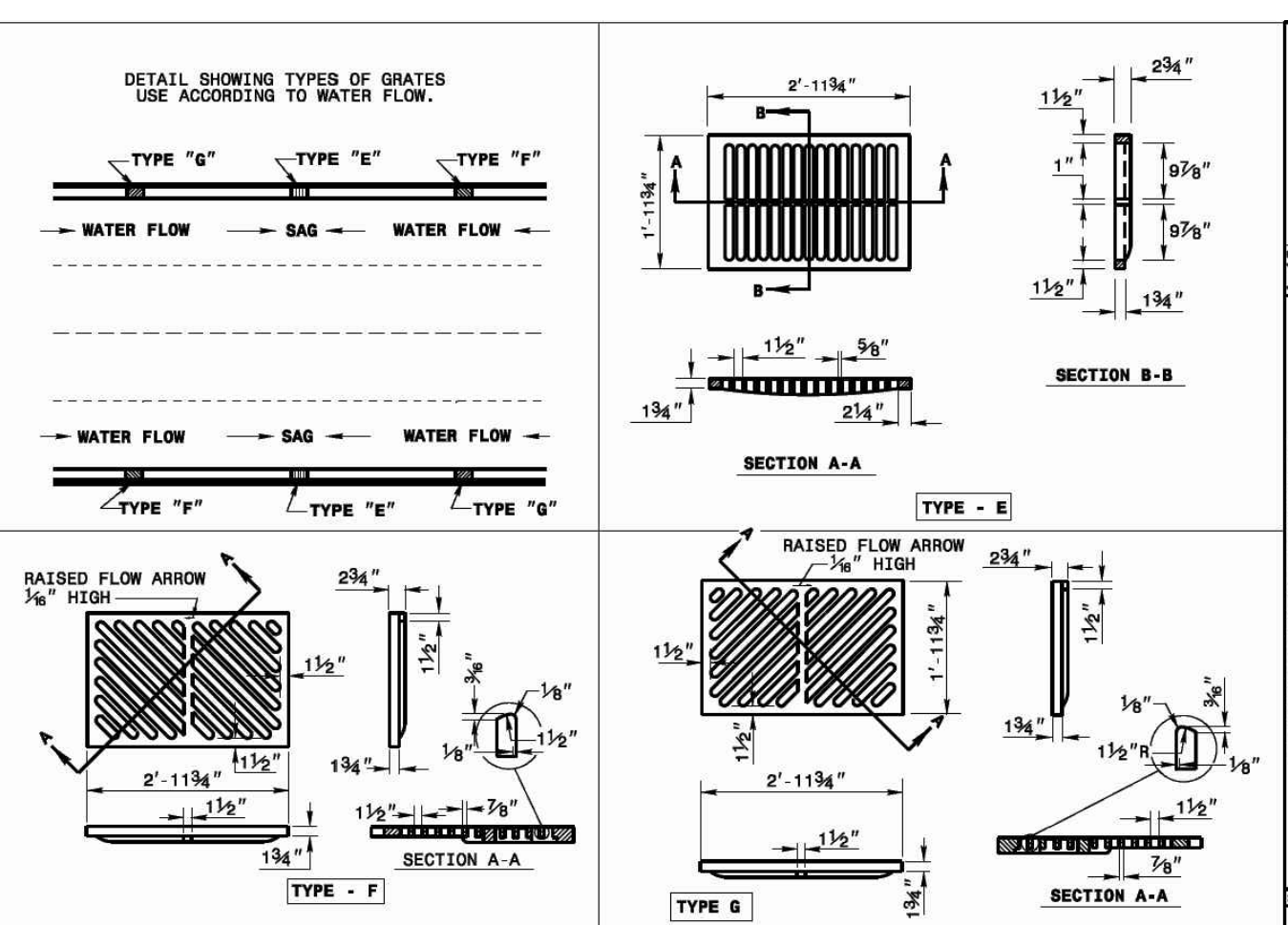
SHEET 1 OF 3
846.01



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

ROADWAY STANDARD DRAWING FOR
FRAME, GRATES, AND HOOD
FOR USE ON STANDARD CATCH BASIN

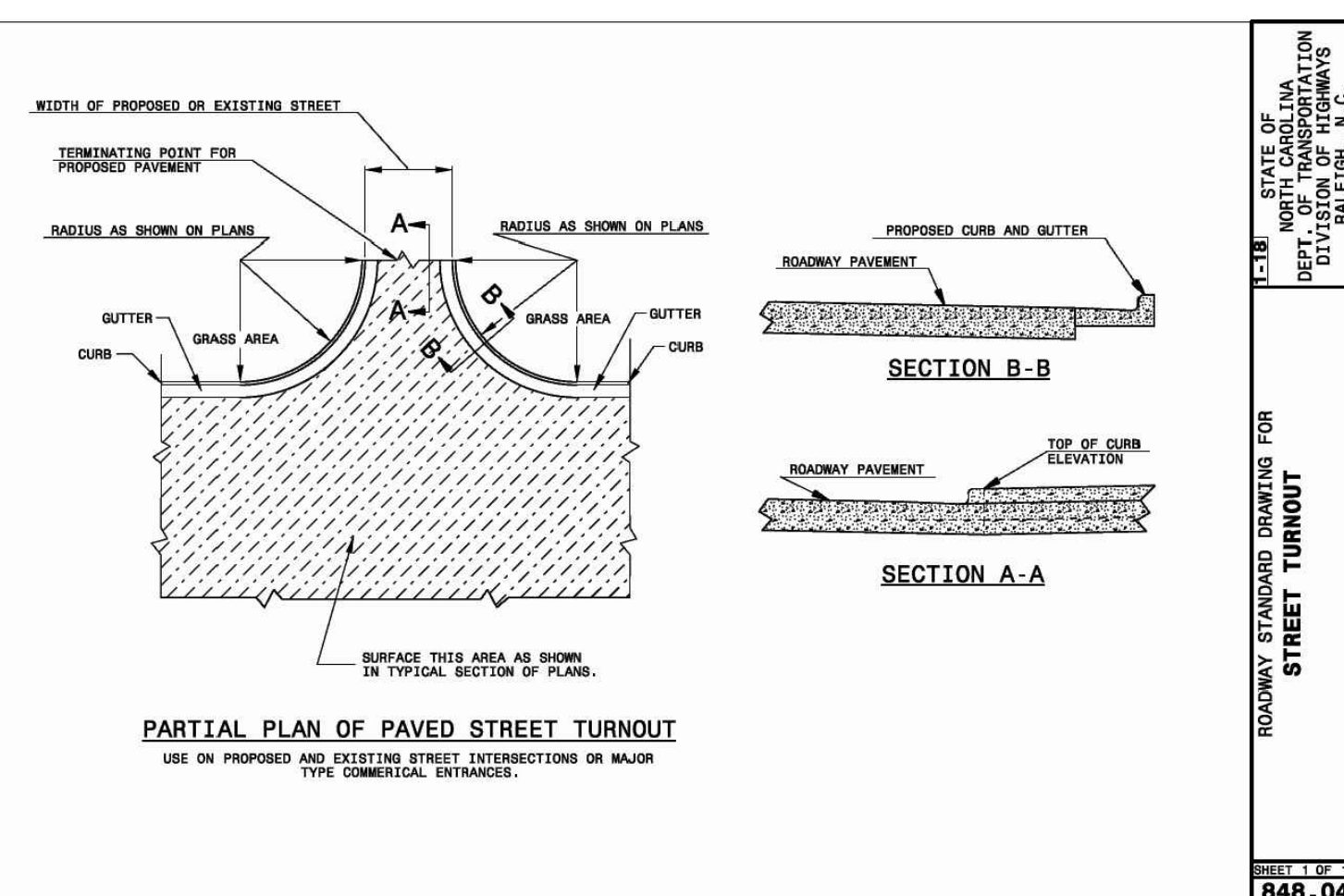
SHEET 1 OF 2
840.03



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

ROADWAY STANDARD DRAWING FOR
FRAME, GRATES, AND HOOD
FOR USE ON STANDARD CATCH BASIN

SHEET 2 OF 2
840.03



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DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
STREET TURNOUT

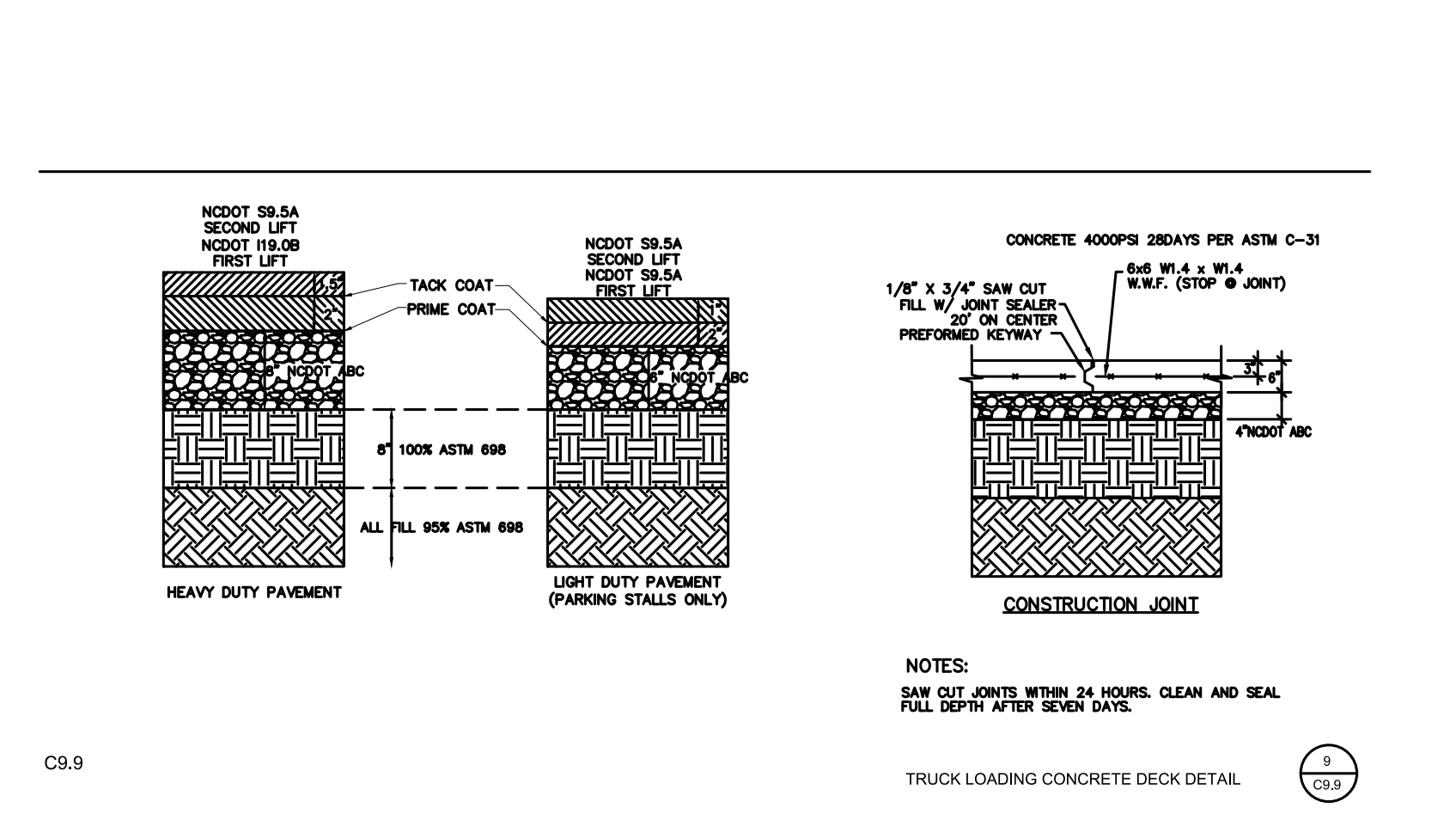
SHEET 1 OF 2
848.04

- NOTES:
- CONSTRUCT THE RAMP SURFACE TO BE STABLE, FIRM, AND SLIP RESISTANT. CONSTRUCT THE CURB RAMP TYPE AS SHOWN IN THE PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER.
 - LOCATE CURB RAMPS AND PLACE PEDESTRIAN CROSSWALK MARKINGS AS SHOWN IN THE PAVEMENT MARKING PLANS. WHEN FIELD ADJUSTMENTS REQUIRE MOVING CURB RAMPS OR MARKINGS AS SHOWN, CONTACT THE DESIGN AND DELINEATION UNIT OR LOCATE AS DIRECTED BY THE ENGINEER.
 - COORDINATE THE CURB RAMP AND THE PEDESTRIAN CROSSWALK MARKINGS SO A 4'x4' CLEAR SPACE AT THE BASE OF THE CURB RAMP WILL FALL WITHIN THE PEDESTRIAN CROSSWALK LINES.
 - SET BACK DISTANCE FROM INSIDE CROSSWALK MARKING TO NEAREST EDGE OF TRAVEL LANE IS 4' MINIMUM.
 - REFER TO THE PAVEMENT MARKING PLANS FOR STOP BAR LOCATIONS AT SIGNALIZED INTERSECTIONS. IF A PAVEMENT MARKING PLAN IS NOT PROVIDED, CONTACT THE SIGNAL DESIGN SECTION FOR THE STOP BAR LOCATIONS OR LOCATE AS DIRECTED BY THE ENGINEER.
 - TERMINATE PARKING A MINIMUM OF 20' BACK OF A PEDESTRIAN CROSSWALK.
 - CONSTRUCT CURB RAMPS A MINIMUM OF 4' WIDE.
 - CONSTRUCT THE RUNNING SLOPE OF THE RAMP 0.33% MAXIMUM.
 - ALLOWABLE CROSS SLOPE ON SIDEWALKS AND CURB RAMPS WILL BE 2% MAXIMUM.
 - CONSTRUCT THE SIDE FLARE SLOPE A MAXIMUM OF 10% MEASURED ALONG THE CURB LINE.
 - CONSTRUCT THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE BASE OF THE CURB RAMP A MAXIMUM OF 2% AND MAINTAIN A SMOOTH TRANSITION.
 - CONSTRUCT LANDINGS FOR SIDEWALK A MINIMUM OF 4'x4' WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION. CONSTRUCT LANDINGS FOR MEDIAN ISLANDS A MINIMUM OF 5'x5' WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.
 - TO USE A MEDIAN ISLAND AS A PEDESTRIAN REFUGE AREA, MEDIAN ISLANDS WILL BE A MINIMUM OF 6' WIDE. CONSTRUCT MEDIAN ISLANDS TO PROVIDE PASSAGE OVER OR THROUGH THE ISLAND.
 - SMALL CHANNELIZATION ISLANDS THAT CAN NOT PROVIDE A 5'x5' LANDING AT THE TOP OF A RAMP, WILL BE CUT THROUGH LEVEL WITH THE SURFACE STREET.
 - CURB RAMPS WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP. THE ADJACENT SURFACE IS PLANTING OR OTHER NON-WALKING SURFACE OR THE SIDE APPROACH IS SUBSTANTIALLY OBSTRUCTED.
 - PLACE A 1/2" EXPANSION JOINT WHERE THE CONCRETE CURB RAMP JOINS THE CURB AS SHOWN IN ROADWAY STANDARD DRAWING 848.01.
 - PLACE ALL PEDESTRIAN PUSH BUTTON ACTUATORS AND CROSSING SIGNALS AS SHOWN IN THE PLANS OR AS SHOWN IN THE MUTCD.
 - CURB RAMPS THROUGH MEDIAN ISLANDS, SINGLE RAMPS AT DUAL CROSSWALKS OR LIMITED R/W SITUATIONS, WILL BE HANDLED BY SPECIAL DETAILS. CONTACT THE CONTRACT STANDARDS AND DEVELOPMENT UNIT FOR THE DETAILS OR FOR A SPECIAL DESIGN.

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

ROADWAY STANDARD DRAWING FOR
CURB RAMPS

SHEET 3 OF 3
848.05



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

CONSTRUCTION JOINT

TRUCK LOADING CONCRETE DECK DETAIL

SHEET 1 OF 1
C8.9

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CONSTRUCTION DRAWINGS
1205 AVERETTE ROAD
WAKE FOREST, NC 27587
WAKE COUNTY, NC

ROAD DETAILS

Project Engineer: SL
Designed By: WKB
Drawn By: WKB
Checked By: SL
Scale: NTS

Date: 11/29/2020

Project Number: 170348

SHEET
C803

ELIZABETH SPRINGS