

V1-SDP-23-07

THE LEARNING CENTER ROLESVILLE

302 SOUTH MAIN STREET
ROLESVILLE, NC 27571

A DEVELOPMENT BY:
ROLESVILLE, LLC.

PROJECT NO.: SDPXX-XX

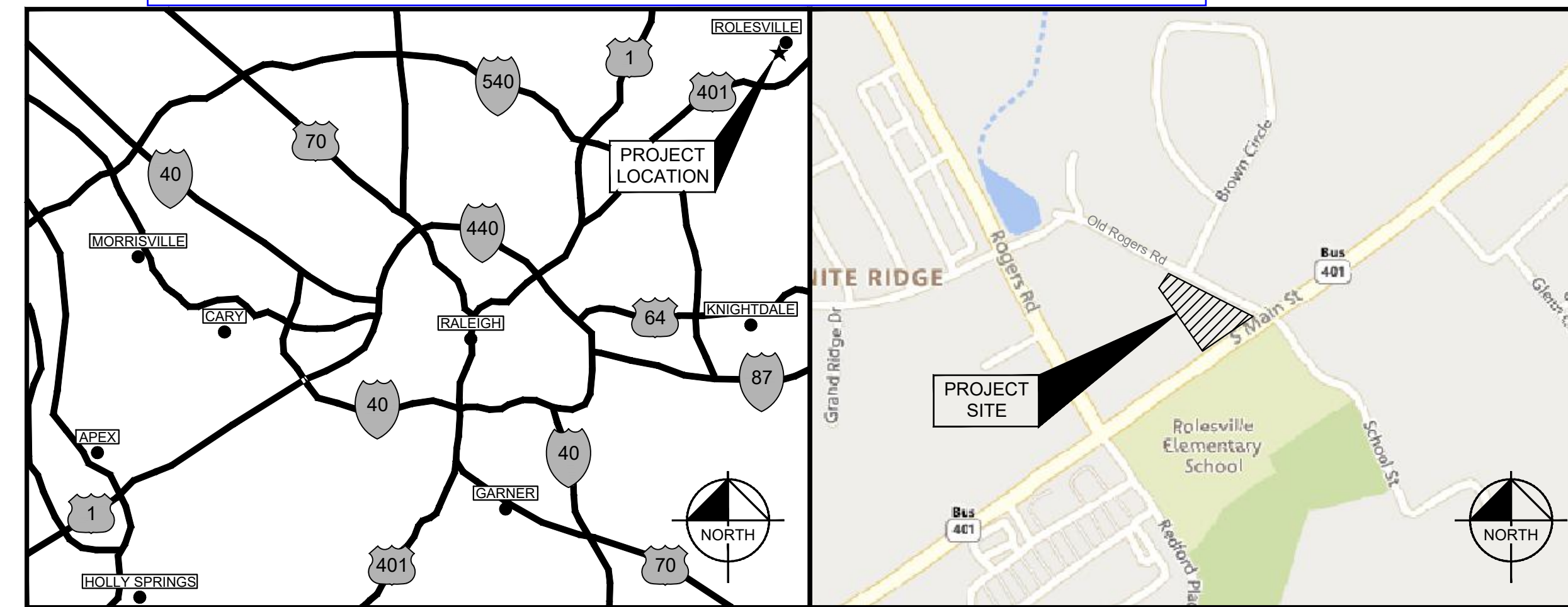
Add case number SDP-23-07 to the cover sheet.

Based upon the email provided, please clarify what setbacks are required, what setbacks are being reduced, and by which ordinance section number this reduction is permitted.

Please indicate the required "Corner Setback". The corner setback is applicable to the side street, Old Rogers Road, so therefore the setback along Main Street would be considered the front setback.

Per LDO Section 3.2.1.C, the setbacks along Main St may be reduced up to 65% if the conditions are provided.

SITE DATA TABLE	
PIN:	1759808293
TOTAL SITE AREA:	1.25 AC
EXISTING ZONING:	GENERAL COMMERCIAL (GC)
BUFFERS:	10' LANDSCAPE
PROPERTY SETBACKS:	FRONT: 20' SIDE: 15' REAR: 35'
WATERSHED:	SANFORD CREEK
RIVER BASIN:	NEUSE
CURRENT USE:	VACANT
PROPOSED USE:	COMMERCIAL
CURRENT IMPERVIOUS:	8,680 SF
PROPOSED IMPERVIOUS:	34,457 SF
PARKING:	MIN. REQUIRED: $(2.5 \text{ SPACES}/1,000 \text{ SF}) \times 10,000 \text{ SF} = 25 \text{ SPACES}$ MAX. ALLOWED: $(5 \text{ SPACES}/1,000 \text{ SF}) \times 10,000 \text{ SF} = 50 \text{ SPACES}$ PROVIDED: 33 SPACES
ACCESSIBLE PARKING:	REQUIRED: 2 SPACES PROVIDED: 2 SPACES
BICYCLE PARKING:	MIN. REQUIRED: $(1 \text{ SPACE}/5,000 \text{ SF}) \times 10,000 \text{ SF} = 2 \text{ SPACES}$ PROVIDED: 2 SPACES
TREE COVERAGE DATA:	SEE SHEET L1.0
BUILDING HEIGHT:	22'
BUILDING SQUARE FOOTAGE:	10,000 SF



PROJECT LOCATION MAP

SCALE: NOT TO SCALE

VICINITY MAP

SCALE: 1" = XXX'

PROJECT OWNERS & CONSULTANTS

OWNER/DEVELOPER

ROLESVILLE, LLC
11018 RUSHMORE DRIVE, SUITE 160
CHARLOTTE, NORTH CAROLINA 28277
CONTACT: MARLAINE KLINTWORTH
PHONE: (919) 868-4472
EMAIL: mvkcommercial@gmail.com

LANDSCAPE ARCHITECT

KIMLEY-HORN AND ASSOCIATES, INC.
421 FAYETTEVILLE ST., SUITE 600
RALEIGH, NORTH CAROLINA 27601
CONTACT: ADAM FULLERTON, MLA, ASLA
PHONE: (919) 553-2937
EMAIL: adam.fullerton@kimley-horn.com

CIVIL ENGINEER

KIMLEY-HORN AND ASSOCIATES, INC.
421 FAYETTEVILLE ST., SUITE 600
RALEIGH, NORTH CAROLINA 27601
CONTACT: CHRIS BOSTIC, P.E.
PHONE: (919) 653-2927
EMAIL: chris.bostic@kimley-horn.com

SURVEYOR

CMP PROFESSIONAL LAND SURVEYORS, PC
333 S. WHITE ST
WAKE FOREST, NORTH CAROLINA 27587
CONTACT: MICHAEL A. MOSS, PLS
PHONE: (919) 556-3148
EMAIL: mike@cmppls.com

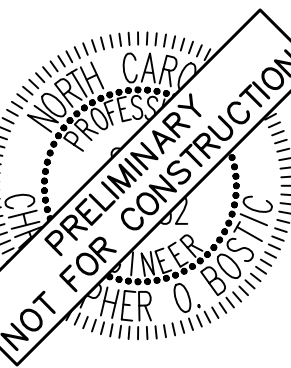
Please add the following to the site data table:
Open Space Provided
Open Space Required

Per LDO Section 6.2.1.D.3, a minimum 5% of open space is required. For a development of this size, at least one small open space type is required.

Sheet List Table	
Sheet Number	Sheet Title
C0.0	COVER SHEET
C0.1	GENERAL NOTES
C1.0	EXISTING CONDITIONS & DEMOLITION PLAN
C2.0	SITE PLAN
C3.0	GRADING PLAN
C4.0	UTILITY PLAN
C4.1	MECHANICAL PLAN
C4.2	SEPTIC TANK DETAILS
C5.0	EROSION CONTROL PLAN - PHASE 1
C5.1	EROSION CONTROL PLAN - PHASE 2
C5.2	EROSION CONTROL DETAILS
C5.3	EROSION CONTROL DETAILS
C8.0	SITE DETAILS
C8.1	SITE DETAILS
C9.0	STORM DETAILS
C9.1	STORM DETAILS
C10.0	SANITARY SEWER DETAILS
C11.0	WATER DETAILS
C11.1	WATER DETAILS
LT1.0	SITE LIGHTING PLAN
L1.0	LANDSCAPE PLAN
L2.0	LANDSCAPE DETAILS

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421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601
#F-0102 WWW.KIMLEY-HORN.COM PHONE: 919.677.2000 FAX: 919.677.2050



KHA PROJECT	013031004
DATE	09/29/2023
SCALE	AS SHOWN
DESIGNED BY	JAA
DRAWN BY	JAA
CHECKED BY	COE

COVER SHEET

THE LEARNING CENTER ROLESVILLE
PREPARED FOR
ROLESVILLE, LLC.
TOWN OF ROLESVILLE
NORTH CAROLINA

SURVEY NOTE:
EXISTING TOPOGRAPHICAL INFORMATION IS BASED ON A TOPOGRAPHIC SURVEY OBTAINED ON 02/23/2023 BY CMP PROFESSIONAL LAND SURVEYORS, 333 S. WHITE STREET, WAKE FOREST, NC 27588. PHONE: (919) 556-3148. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION, DEPICTED OR NOT, PRIOR TO CONSTRUCTION AND REPORT POTENTIAL CONFLICTS TO OWNER AND ENGINEER.



Know what's below.
Call before you dig.

SHEET NUMBER
C0.0

Plotted By: Alexander, Jamal Sheet Set: THE LEARNING CENTER ROLESVILLE Layout: C0.0 COVER SHEET October 02, 2023 02:40:41pm K:\SAL_LDEV\013031004_Rolesville_Leaning_Corner\PT10_CAD Files\PlanSheets\C0.0 COVER SHEET.dwg This document, together with the concepts and designs presented herein, is an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Plotted By: Alexander, Jamal Sheet Set: THE LEARNING CENTER ROLESVILLE Layout: COL1 GENERAL NOTES October 02, 2023 02:40:50pm K:\RAL...LDEVD10303\1004...dobeville... Learning_Center\COL1 CAD Files\PlanSheets\COL1 GENERAL NOTES.dwg
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GENERAL NOTES:

- WORK IN THIS PROJECT SHALL CONFORM TO THESE PLANS, THE LATEST EDITIONS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) ROAD AND BRIDGE SPECIFICATIONS, THE NCDOT ROAD AND BRIDGE STANDARDS, THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL HANDBOOK, THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL REGULATIONS, THE TOWN OF ROLESVILLE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS, THE FINAL GEOTECHNICAL REPORT, AND GENERAL DESIGN STANDARDS. IN THE EVENT OF CONFLICT BETWEEN ANY OF THESE STANDARDS, SPECIFICATIONS, OR PLANS, THE MOST STRINGENT SHALL GOVERN. ALL UTILITIES TO BE DEDICATED TO THE CITY OF RALEIGH MUNICIPAL WATER AND/OR SANITARY SEWER SYSTEM SHALL BE CONSTRUCTED AND TESTED TO CONFORM TO STATE OF NORTH CAROLINA STATE BOARD OF HEALTH WATERWORKS AND/OR SEWAGE REGULATIONS AND THE CITY OF RALEIGH DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS.
- THE TERM "CONTRACTOR" AS REFERENCED HERE-IN SHALL ALSO INCLUDE THE SUBCONTRACTOR OR PRINCIPAL TRADE CONTRACTOR, UNDER CONTRACT TO THE GENERAL CONTRACTOR TO PROVIDE LABOR, MATERIALS, AND/OR SERVICES TO THE PROJECT.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL JOBSITE SAFETY, INCLUDING BUT NOT LIMITED TO TRENCH SAFETY, DURING ALL PHASES OF CONSTRUCTION.
- THE LOCATION AND SIZE OF EXISTING UTILITIES AS SHOWN IS APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR HORIZONTALLY AND VERTICALLY LOCATING AND PROTECTING ALL PUBLIC OR PRIVATE UTILITIES (SHOWN OR NOT SHOWN) WHICH LIE IN OR ADJACENT TO THE CONSTRUCTION SITE. AT LEAST 48 HOURS PRIOR TO ANY DEMOLITION, GRADING, OR CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE NORTH CAROLINA 811 UTILITIES LOCATION SERVICE (NC811) AT 1-800-632-4949 FOR PROPER IDENTIFICATION OF EXISTING UTILITIES WITHIN THE SITE.
- THE CONTRACTOR SHALL SALVAGE AND PROTECT ALL EXISTING POWER POLES, SIGNS, MANHOLES, TELEPHONE RISERS, WATER VALVES, ETC. DURING ALL CONSTRUCTION PHASES. THE CONTRACTOR SHALL REPAIR, AT HIS OWN EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
- TRAFFIC CONTROL WITHIN ALL VEHICULAR AREAS IS THE RESPONSIBILITY OF THE CONTRACTOR, SHALL BE IN CONFORMANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES," AND AS FURTHER DIRECTED BY CITY AND STATE INSPECTORS.
- ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS, SPECIFICATIONS, AND SITE CONDITIONS OR ANY INCONSISTENCIES OR AMBIGUITIES IN DRAWINGS OR SPECIFICATIONS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER, IN WRITING, WHO SHALL PROMPTLY ADDRESS SUCH INCONSISTENCIES OR AMBIGUITIES. WORK DONE BY THE CONTRACTOR AFTER HIS DISCOVERY OF SUCH DISCREPANCIES, INCONSISTENCIES, OR AMBIGUITIES SHALL BE DONE AT THE CONTRACTOR'S RISK.
- CONSTRUCTION STAKEOUT FOR THIS PROJECT SHALL BE PER A DIGITAL (CAD) FILE PROVIDED BY THE ENGINEER. THE CONTRACTOR SHALL NOTIFY THE LEAD ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES FOUND BETWEEN THE DIGITAL FILE AND THE CRITICAL STAKING DIMENSIONS SHOWN ON THIS PLAN. ANY MODIFICATIONS MADE BY OTHERS TO THE DIGITAL FILE PROVIDED BY THE ENGINEER SHALL RENDER IT VOID.
- A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ARRANGE THE MEETING WITH THE TOWN OF ROLESVILLE ENGINEERING DIVISION AND THE OWNER.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING OR OBTAINING ALL REQUIRED PERMITS AND APPROVALS PRIOR TO COMMENCING CONSTRUCTION.
- THE FRAMES AND COVERS OF ALL EXISTING AND PROPOSED DRAINAGE, SANITARY SEWER, WATER MAIN, GAS, AND WIRE UTILITY STRUCTURES SHALL BE ADJUSTED TO MATCH PROPOSED FINISHED ELEVATIONS AND SLOPES.
- ROADWAYS AND BUILDINGS MUST BE CAPABLE OF SUPPORTING FIRE APPARATUS DURING CONSTRUCTION.

- EXISTING INFORMATION SHOWN TAKEN FROM AN ALTA/ACSM LAND TITLE SURVEY DATED OCTOBER 17, 2016 AND PROVIDED BY GSC SURVEYING, INC., 4072 BARRETT DRIVE, RALEIGH, N.C. 27609, PHONE: 919-787-5805, WAKEFIELD PINES SUBDIVISION PLANS AND SHEETZ WAKEFIELD SITE PLANS BY KIMLEY-HORN.

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NC DOT AND TOWN OF ROLESVILLE STANDARDS, SPECIFICATIONS, & DETAILS IF APPLICABLE.

Appears in conflict with the information provided on the existing conditions sheet

GRADING

- OBTAIN AND POST THE WAKE COUNTY LAND DISTURBANCE PERMIT ONSITE PRIOR TO COMMENCING WORK ON SITE.
- REFER TO FINAL CONSTRUCTION PLANS FOR CLEARING LIMITS AND TEMPORARY EROSION CONTROL DEVICES TO BE INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL ADHERE TO THE LIMITS OF TREE PROTECTION FENCE.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY, RELOCATED WHEN AND AS NECESSARY, AND SHALL BE CHECKED AFTER EVERY RAINFALL. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RESEEDED, AND MULCHED AS NECESSARY TO OBTAIN A DENSE STAND OF GRASS.
- ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE, AND AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL MAINTAIN AND SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL USE SILT FENCES (OR OTHER METHODS APPROVED BY THE ENGINEER, WAKE COUNTY, AND NCDENR), AS REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL EROSION, CONSERVATION, AND SILTATION ORDINANCES. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT OF A STAND OF GRASS OR OTHER GROWTH TO PREVENT EROSION.
- THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND MOISTURE CONDITION ALL FILL PER THE PROJECT GEOTECHNICAL ENGINEER'S SPECIFICATIONS AND REPORT. THE FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE CERTIFIED MATERIAL TESTING AGENCY PRIOR TO PLACEMENT.
- GRADING CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES FOR ANY REQUIRED UTILITY ADJUSTMENTS AND/OR RELOCATIONS.
- ALL MATERIALS USED FOR BACKFILL SHALL BE FREE OF WOOD, ROOTS, ROCKS, BOULDERS, OR ANY OTHER NON-COMPATIBLE SOIL TYPE MATERIAL. UNSATISFACTORY MATERIALS ALSO INCLUDE MAN-MADE FILLS AND REFUSE DEBRIS DERIVED FROM ANY SOURCE.
- MATERIALS USED TO CONSTRUCT EMBANKMENTS FOR ANY PURPOSE, BACKFILL AROUND DRAINAGE STRUCTURES, OR IN UTILITY TRENCHES FOR ANY OTHER DEPRESSION REQUIRING FILL OR BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST AS SET OUT IN ASTM STANDARD D-698. THE CONTRACTOR SHALL PRIOR TO ANY OPERATIONS INVOLVING FILLING OR BACKFILLING, SUBMIT THE RESULTS OF THE PROCTOR TEST TOGETHER WITH A CERTIFICATION THAT THE SOIL TESTED IS REPRESENTATIVE OF THE MATERIALS TO BE USED ON THE PROJECT. TESTS SHALL BE CONDUCTED BY A CERTIFIED MATERIALS TESTING LABORATORY AND THE CERTIFICATIONS MADE BY A LICENSED PROFESSIONAL ENGINEER REPRESENTING THE LABORATORY.
- ALL DEMOLITION, DEBRIS, AND OTHER EXCESS MATERIAL SHALL BE HAULED OFF-SITE AND LEGALLY DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
- NO TREE WITHIN THE TREE PROTECTION AREA SHALL BE REMOVED OR DAMAGED.
- THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION PRIOR TO THE PROJECT ACCEPTANCE IS SCHEDULED. FENCING SHALL BE REMOVED PRIOR TO FINAL SITE INSPECTION FOR THE CO.
- REFERENCE GEOTECHNICAL REPORT FOR PAVING SUB GRADE INFORMATION.
- ALL SPOT GRADE ELEVATIONS IN CURB AND GUTTER REPRESENT GUTTER FLOWLINE ELEVATION AT FACE OF CURB UNLESS OTHERWISE NOTED (ADD 6" FOR TOP OF CURB).
- PROPOSED CONTOURS AND GUTTER GRADIENTS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND ROADWAY PROFILES/SUPERELEVATIONS ARE TO BE USED IN CASE OF DISCREPANCY.
- REFER TO SITE PLAN AND FINAL PLAT FOR HORIZONTAL DIMENSIONS.
- WHERE FILL IS TO BE PLACED ON EXISTING SLOPES STEEPER THAN 4:1, CONTRACTOR SHALL EXCAVATE BENCHES WITH A MAXIMUM DEPTH OF 3'.
- THE CONTRACTOR SHALL COORDINATE WITH THE GEOTECHNICAL ENGINEER FOR APPROPRIATE SLOPE STABILIZATION ON ALL SLOPES STEEPER THAN 3:1.
- CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR BLASTING ROCK IF BLAST ROCK IS ENCOUNTERED. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL BLASTING AND SAFETY REQUIREMENTS.
- SILT FENCE SHALL BE PLACED AROUND ALL TEMPORARY SOIL STOCKPILES A MINIMUM OF 3' FROM TOE OF SLOPE.
- VERTICAL DATUM IS BASED ON NAVD 88.

SANITARY SEWER

- SANITARY SEWER SERVICES SHALL BE SCHEDULE 40 PVC.
- CLEANOUT SYMBOLS SHOWN ON THESE PLANS REPRESENT LOCATION OF SURFACE ACCESS POINT. CONTRACTOR SHALL LOCATE WYE APPROPRIATELY BASED ON PIPE DEPTH.
- SANITARY SEWER CLEAN-OUTS LOCATED IN PAVEMENT AREAS SHALL BE HEAVY-DUTY TRAFFIC BEARING CASTINGS.

WATER

- WATERLINES, LARGER THAN 2" SHALL BE DUCTILE IRON PIPE MEETING THE REQUIREMENTS OF ANSI-AWWA C151 PRESSURE CLASS 350. WATERLINES 3/4" TO 2" SHALL BE TYPE "K" SOFT COPPER.
- ALL UNDERGROUND UTILITIES AND FIRE HYDRANTS MUST BE FUNCTIONALLY APPROVED PRIOR TO STRUCTURAL CONSTRUCTION.
- NATIONAL STANDARD THREADS SHALL BE INSTALLED ON FIRE HYDRANTS.
- ALL FIRE HYDRANTS AND FDC CONNECTIONS TO HAVE STORZ TYPE CONNECTION PER CITY OF RALEIGH FIRE DEPARTMENT STANDARDS.

BACKFLOW PREVENTION:

- THERE SHALL BE NO TAPS, PIPING BRANCHES, UNAPPROVED BYPASS PIPING, HYDRANTS, FIRE DEPARTMENT CONNECTION POINTS OR OTHER WATER-USING APPURTENANCES CONNECTED TO THE SUPPLY LINE BETWEEN ANY WATER METER AND ITS REQUIRED BACKFLOW PREVENTER.
- EACH BACKFLOW PREVENTER ASSEMBLY IS REQUIRED TO BE TESTED BY AN APPROVED CERTIFIED TESTER PRIOR TO PLACING THE WATER SYSTEM INTO SERVICE. CONTRACTOR SHALL PERFORM TESTING IN ACCORDANCE WITH THE CITY OF RALEIGH ENGINEERING DEPARTMENT.

CONSTRUCTION NOTES

- THE CONTRACTOR SHALL CONDUCT THE WORK IN A SAFE MANNER AND WITH A MINIMUM AMOUNT OF INCONVENIENCE TO TRAFFIC.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SHALL ADHERE TO THE PROVISIONS OF THE MUTCD (MOST CURRENT EDITION).
- PRIOR TO CONSTRUCTION BEGINNING, ALL SIGNAGE AND TRAFFIC CONTROL SHALL BE IN PLACE.
- THE CONTRACTOR SHALL HAVE A COMPLETE SET OF CONTRACT DOCUMENTS AS WELL AS ALL APPROVALS AND EASEMENTS ON THE JOB SITE AT ALL TIMES.
- THE CONTRACTOR SHALL REPAIR ALL DRIVEWAYS, DRIVEWAY PIPES, CURB AND GUTTER, SIDEWALKS AND STREET TO EXISTING CONDITION OR BETTER.

PAVING/CURBING

- WHERE PROPOSED CURB AND GUTTER TIES TO EXISTING CURB OR CURB AND GUTTER, A TRANSITION OF 10' SHALL BE MADE TO CONFORM TO THE EXISTING HEIGHTS AND SHAPES.
- BEFORE ANY EARTHWORK IS DONE, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF PAVEMENT AND OTHER ITEMS ESTABLISHED IN THE PLANS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING AND SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.
- ALL PAVEMENT SUB GRADES (EVEN WHEN ROCK IS ENCOUNTERED) SHALL BE SCARIFIED TO A DEPTH OF 8 INCHES AND COMPACTED TO A MINIMUM DENSITY OF 98 PERCENT OF ASTM D-698 DENSITY AT OPTIMUM MOISTURE CONTENT UNLESS OTHERWISE SHOWN IN THE CONSTRUCTION DOCUMENTS OR AS DIRECTED BY THE CERTIFIED MATERIALS TESTING AGENT. FILL SHALL BE PLACED AND COMPACTED IN MAXIMUM 8" LIFTS.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS AND MISCELLANEOUS STRIPING AS SHOWN ON THE PLANS. ALL ROADWAY PAVEMENT MARKINGS SHALL BE THERMOPLASTIC AND ADHERE TO NCDOT STANDARDS.
- THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND MOISTURE CONDITION ALL FILL PER THE PROJECT GEOTECHNICAL ENGINEER'S SPECIFICATIONS. THE FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
- 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.
- TESTING OF MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE PAVING IMPROVEMENTS SHALL BE PERFORMED BY AN APPROVED AGENCY FOR TESTING MATERIALS. THE TESTING LABORATORY AND THE PAYMENT OF SUCH TESTING SERVICES SHALL BE MADE BY THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY THAT THE CERTIFIED MATERIAL TESTING AGENCY HAS PERFORMED THE WORK AND THAT THE WORK CONSTRUCTED DOES MEET THE REQUIREMENTS OF THE CITY'S SPECIFICATIONS AND/OR THE PROJECT SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
- ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES ON PUBLIC STREETS SHALL CONFORM TO MUTCD, NCDOT, AND TOWN OF ROLESVILLE STANDARDS.

STORM DRAINAGE

- THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF CURB INLETS AND GRATE INLETS AND ALL UTILITIES CROSSING THE STORM SEWER.
- THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE STORM SEWER.
- THE TOWN OF ROLESVILLE INSPECTOR SHALL INSPECT ALL "PUBLIC" CONSTRUCTION. THE CONTRACTOR'S PRICE SHALL INCLUDE ALL INSPECTION FEES.
- ALL RCP STORM SEWER MAINS AND LATERALS SHALL BE MINIMUM CLASS III REINFORCED CONCRETE PIPE.
- ALL PVC PIPE USED IN DRAINAGE SYSTEM SHALL BE MINIMUM SDR-35 OR APPROVED EQUAL.
- ALL PVC TO RCP CONNECTIONS SHALL BE CONSTRUCTED WITH CONCRETE COLLARS.
- THE LOCATIONS OF STORM SEWER STRUCTURES SHOWN ON THESE PLANS (AND PROVIDED IN ASSOCIATED CAD FILES) ARE APPROXIMATE. THE CONTRACTOR SHALL STAKE ALL CURB INLET STRUCTURES SUCH THAT INLET TOPS ALIGN HORIZONTALLY WITH PROPOSED CURB LOCATIONS (PER DETAIL, IF PROVIDED). WHERE PROPOSED STORM SEWERS TIE TO EXISTING STRUCTURES, PIPES, ETC., THE CONTRACTOR SHALL FIELD ADJUST PROPOSED STORM SEWERS TO MATCH THE LOCATIONS OF THESE EXISTING FEATURES.
- RIM ELEVATIONS FOR STORM CATCH BASINS ARE MEASURED TO THE GUTTER FLOW LINE.

TRAFFIC CONTROL NOTES

- WITHIN THE SIGHT TRIANGLES AND SIGHT EASEMENTS SHOWN ON THESE PLANS, NO OBSTRUCTION SHALL BE LOCATED IN WHOLE OR PART BETWEEN (2) FEET AND (8) FEET IN HEIGHT ABOVE THE CURB LINE ELEVATION OR THE NEAREST TRAVELED WAY, IF NO CURBING EXISTS. OBSTRUCTIONS INCLUDE, BUT ARE NOT LIMITED TO, ANY BERM, FOLIAGE, FENCE, WALL, SIGN, PARKED VEHICLE OR OTHER OBJECT.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE AND/OR N.C.D.O.T. STANDARDS AND SPECIFICATIONS.
- REFER TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION) FOR DETAILS OF STANDARD TRAFFIC CONTROL SIGNS AND STANDARDS.

SEEDBED PREPARATION

- CHISEL COMPACTED AREAS AND SPREAD TOPSOIL THREE INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
- REMOVE THE ENTIRE AREA TO SIX INCHES DEEP.
- RIP ALL LOOSE ROCK, ROOTS AND OTHER OBSTRUCTIONS, LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
- APPLY AGRICULTURAL LIME, FERTILIZER AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE MIXTURE BELOW).
- CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED FOUR TO SIX INCHES DEEP.
- SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
- MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
- INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE MORE THAN 60% DAMAGED, RE-ESTABLISH FOLLOWING THE ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
- CONSULT SAEC ENVIRONMENTAL ENGINEERS ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.
- *AGRICULTURAL LIMESTONE - 2 TONS/ ACRES (3 TONS/ACRE IN CLAY SOILS) FERTILIZER - 1,000 LBS. / ACRE -10-10-10 SUPERPHOSPHATE- 500 LBS/ ACRE -20% ANALYSIS MULCH -2 TONS / ACRE - SMALL GRAIN STRAW ANOTHER - ASPHALT EMULSION @ 300 GALS./ ACRE

SEEDING SCHEDULE

DATE	TYPE	PLANTING RATE
SHOULDERS, SIDE DITCHES, SLOPES (MAX 3:1)		
AUG 15 - NOV 1	TALL FESCUE	300 LBS/ACRE
NOV 1 - MAR 1	TALL FESCUE & ABRUZZI RYE	300 LBS/ACRE
MAR 1 - APR 15	TALL FESCUE	300 LBS/ACRE
APR 15 - JUN 30	HULLED COMMON BERMUDAGRASS	25 LBS/ACRE
JUL 1 - AUG 15	TALL FESCUE AND ***BROWNTOP MILLET ***OR SORGHUM-SUDAN HYBRIDS	120 LBS/ACRE 35 LBS/ACRE 30 LBS/ACRE
SLOPES (3:1 TO 2:1)		
MAR 1 - JUN 1	SERICEA LESPEDEZA (SCARIFIED) AND ADD TALL FESCUE	50 LBS/ACRE 120 LBS/ACRE
(MAR 1 - APR 15) (MAR 1 - JUN 30)	OR ADD WEEPING LOVEGRASS OR ADD HULLED COMMON BERMUDAGRASS	10 LBS/ACRE 25 LBS/ACRE
JUN 1 - SEP 1	***TALL FESCUE AND ***BROWNTOP MILLET ***OR SORGHUM-SUDAN HYBRIDS	120 LBS/ACRE 30 LBS/ACRE 30 LBS/ACRE
SEP 1 - MAR 1	SERICEA LESPEDEZA (UNHULLED-UNSCARIFIED) AND TALL FESCUE ADD ABRUZZI RYE	70 LBS/ACRE 120 LBS/ACRE 25 LBS/ACRE
(NOV 1 - MAR 1)		

CONSULT CONSERVATION ENGINEER OR SOIL CONSERVATION SERVICE FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENuded AREAS. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.

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

*NOTE: THIS SEEDING SCHEDULE IS FOR EROSION AND SEDIMENT CONTROL ONLY. SEE LANDSCAPE PLAN FOR FINAL SEEDING.

THE CONTRACTOR SHALL PROVIDE GROUND COVER ON DESIGNATED AREAS AND SLOPES GREATER THAN 3:1 WITHIN 7 DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING. CONTRACTOR SHALL PROVIDE GROUND COVER IN 14 DAYS ON ALL OTHER AREAS FOLLOWING COMPLETION OF ANY PHASE OF GRADING. PERMANENT GROUND COVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION.

NURSE CROP: WHEN SEEDING BERMUDA GRASS SEED CONTRACTOR SHALL ADD 25 LB/AC OF ANNUAL RYE GRASS AS NURSE CROP UNTIL PERMANENT ESTABLISHMENT OF BERMUDA GRASS

EROSION CONTROL NOTES

- UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL HANDBOOK.
- THE CONTRACTOR SHALL INSTALL AND MAINTAIN THROUGHOUT THE PROJECT CONSTRUCTION ALL EROSION CONTROL MEASURES SHOWN WITHIN THESE PLANS IN ACCORDANCE WITH APPLICABLE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY (NCEQ) AND WAKE COUNTY EROSION AND SEDIMENT CONTROL REGULATIONS.
- ALL CONSTRUCTION WORK SHALL BE IN COMPLIANCE WITH REGULATIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER GENERAL PERMIT.
- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO CLEARING AND/OR LAND DISTURBANCE.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND PERMIT SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE NCDENR EROSION CONTROL INSPECTOR SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.
- APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS. CONTACT PROJECT ENGINEER AND PROJECT EROSION CONTROL INSPECTOR TO ENSURE ADDITIONAL EROSION CONTROL MEASURES ARE INSTALLED PRIOR TO OFF-SITE GRADING.
- PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO OFF-SITE BORROW OR WASTE AREAS, STAGING OR STORAGE AREAS), THE CONTRACTOR SHALL PREPARE AND SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND TO THE WAKE COUNTY FOR APPROVAL. CONTRACTOR SHALL PAY ALL FEES REQUIRED AND SHALL INSTALL NECESSARY MEASURES AT NO SEPARATE PAYMENT. THE CONTRACTOR SHALL PROVIDE THE OWNER AND THE ENGINEER A COPY OF THE AMENDED PERMIT.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY, RELOCATED WHEN AND AS NECESSARY, AND SHALL BE CHECKED AFTER EVERY RAINFALL. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RESEEDED, AND MULCHED AS NECESSARY TO OBTAIN A DENSE STAND OF GRASS.
- STABILIZATION IS THE BEST FORM OF EROSION CONTROL. ALL DISTURBED AREAS WHICH ARE NOT OTHERWISE STABILIZED SHALL BE TOP SOILED AND SEEDED, TEMPORARILY OR PERMANENTLY IN ACCORDANCE WITH THE NORTH CAROLINA SEDIMENT CONTROL REGULATIONS. PERMANENT SEEDING AND GRASS ESTABLISHMENT IS REQUIRED PRIOR TO PROJECT COMPLETION AND ACCEPTANCE.
- CONTRACTOR TO ENSURE THAT SEDIMENT LADEN RUNOFF DOES NOT LEAVE SITE LIMITS OR ENTER PROTECTED AREAS. ANY SEDIMENT DEPOSITED BEYOND DISTURBED AREA WITHIN SITE LIMITS SHALL BE REMOVED.
- ROLLED EROSION CONTROL PRODUCTS (RECP'S) SHOULD BE USED TO AID PERMANENT VEGETATED STABILIZATION OF SLOPES GREATER THAN 10' OF VERTICAL ANCHOR WITH MORE THAN 10' OF VERTICAL RELIEF. RECP'S SHOULD ALSO BE USED WHEN MULCH CANNOT BE ADEQUATELY TACKED AND WHERE IMMEDIATE GROUND COVER IS REQUIRED TO PREVENT EROSION DAMAGE.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 21 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.
- WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.
- WHEN A CRUSHED STONE CONSTRUCTION ENTRANCE HAS BEEN COVERED WITH SOIL OR HAS BEEN PUSHED INTO THE SOIL BY CONSTRUCTION TRAFFIC, IT SHALL BE REPLACED WITH A DEPTH OF STONE EQUAL TO THAT OF THE ORIGINAL APPLICATION.
- TEMPORARY CONSTRUCTION ENTRANCES SHALL BE REQUIRED AT ALL CONSTRUCTION STAGING AREA ENTRANCES AND ALL CONSTRUCTION ACCESS LOCATIONS INTO NON-PAVED AREAS. TWO TO THREE INCH STONE SHALL BE USED FOR THE TEMPORARY GRAVEL CONSTRUCTION ENTRANCE.
- ALL DRAINAGE INLETS SHALL BE PROTECTED FROM SILTATION. INEFFECTIVE PROTECTION DEVICES SHALL BE IMMEDIATELY REPLACED AND THE INLET CLEANED. FLUSHING IS NOT AN ACCEPTABLE METHOD OF CLEANING.
- DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
- SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.
- ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
- DURING Dewatering OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE PRIOR TO DISCHARGE TO RECEIVING OUTLET.
- THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED BY CONTRACTOR ONCE STABILIZATION OR A SUFFICIENT GROUND COVER HAS BEEN ESTABLISHED OR AS DIRECTED BY THE ENGINEER. WAKE COUNTY INSPECTOR'S FINAL APPROVAL IS REQUIRED.
- STABILIZATION MEASURES SHALL BE APPLIED TO STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.
- ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDING UPON FIELD CONDITIONS.
- LIMITS OF GRADING SHOWN ON THE PLAN ARE MAXIMUM LIMITS FOR EROSION CONTROL PURPOSES ONLY. SURVEYOR TO DETERMINE ACTUAL LIMIT.
- ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE WAKE COUNTY EROSION CONTROL ORDINANCE, AND IS SUBJECT TO A FINE.
- GRADING MORE THAN 12,000 SF WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE WAKE COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.

ABBREVIATIONS

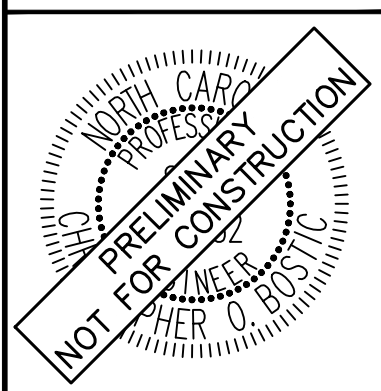
*NOT ALL ABBREVIATIONS MAY BE USED FOR THIS PROJECT.

CB - CATCH BASIN
YI - YARD INLET
CO - CLEAN OUT
DI - DROP INLET
EX - EXISTING
FES - FLARED END-SECTION
JB - JUNCTION BOX
LOD - LIMITS OF DISTURBANCE
PVC - POLYVINYL CHLORIDE
RCP - REINFORCED CONCRETE PIPE
TYP. - TYPICAL

SURVEY NOTE:
EXISTING TOPOGRAPHICAL INFORMATION IS BASED ON A TOPOGRAPHIC SURVEY OBTAINED ON 02/23/2023 BY CMP PROFESSIONAL LAND SURVEYORS, 333 S. WHITE STREET, WAKE FOREST, NC 27588. PHONE: (919) 556-3148. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION, DEPICTED OR NOT, PRIOR TO CONSTRUCTION AND REPORT POTENTIAL CONFLICTS TO OWNER AND ENGINEER.

NO.	REVISIONS	DATE
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421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601



RHA PROJECT	DATE	SCALE	AS SHOWN	DESIGNED BY	JAA	DRAWN BY	JAA	CHECKED BY	COB
013031004	09/29/2023								

GENERAL NOTES

THE LEARNING CENTER ROLESVILLE
PREPARED FOR
ROLESVILLE, LLC.
TOWN OF ROLESVILLE
NORTH CAROLINA

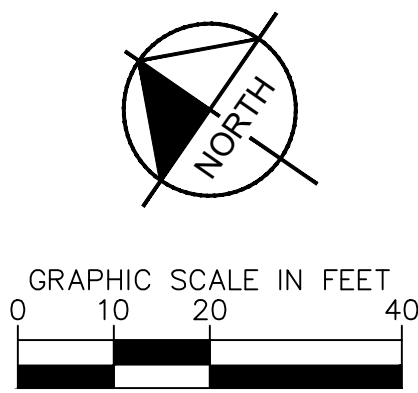
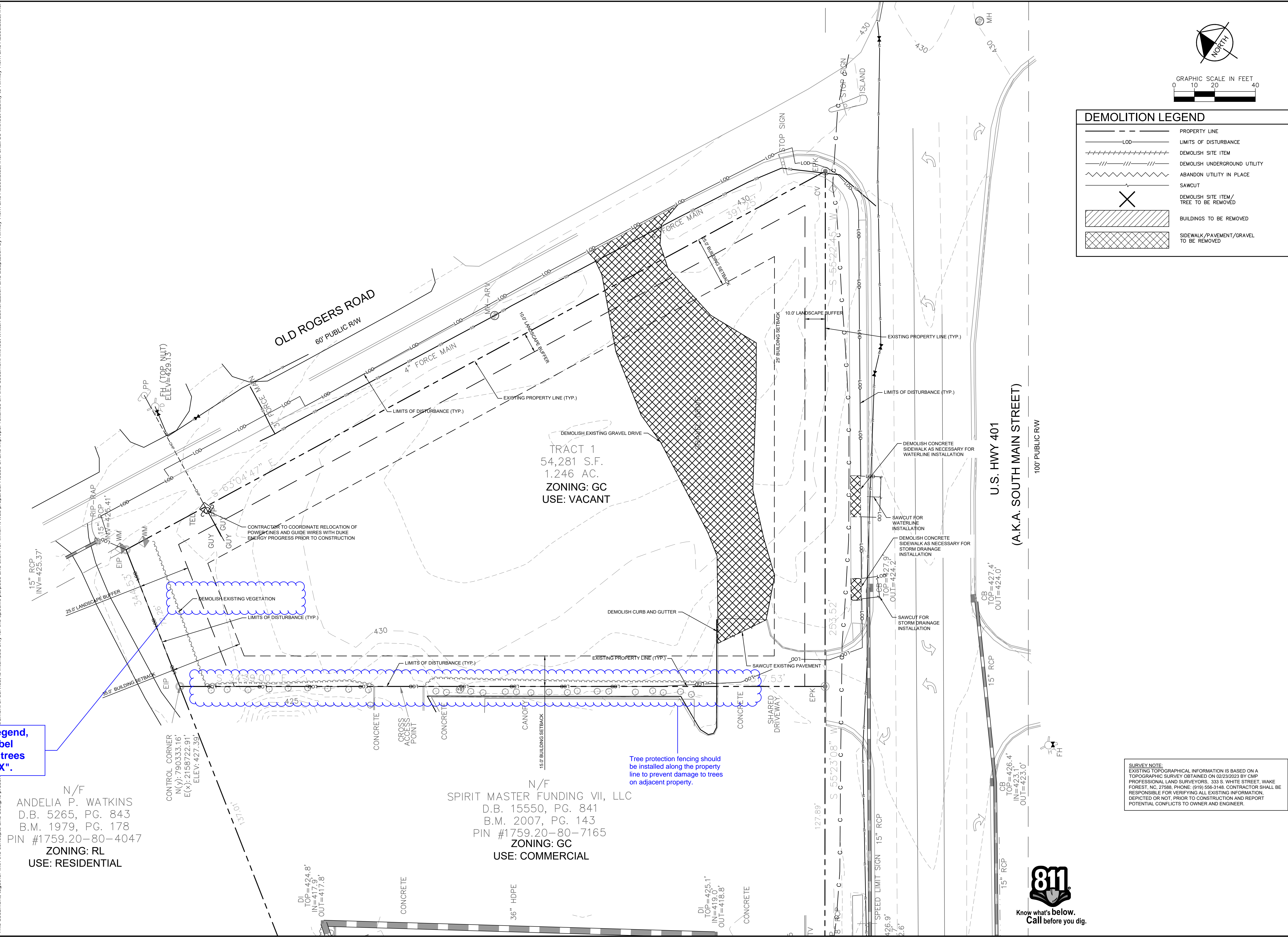
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EXISTING CONDITIONS & DEMOLITION PLAN, October 02, 2022, 02:40:53pm, K:\RAL_LDEV\013031004_Rolesville_Learning_Center\10_CAD Files\Plans\Sheets\03-EXISTING CONDITIONS & DEMOLITION PLAN.dwg
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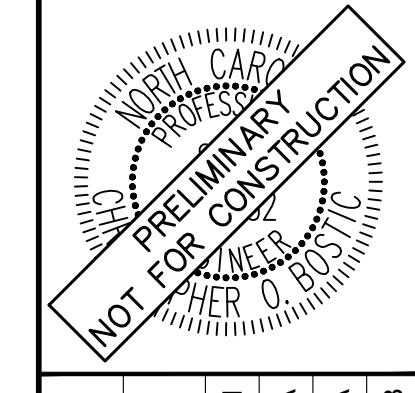
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DEMOLITION LEGEND	
	PROPERTY LINE
	LIMITS OF DISTURBANCE
	DEMOLISH SITE ITEM
	DEMOLISH UNDERGROUND UTILITY
	ABANDON UTILITY IN PLACE
	SAWCUT
	DEMOLISH SITE ITEM / TREE TO BE REMOVED
	BUILDINGS TO BE REMOVED
	SIDEWALK / PAVEMENT / GRAVEL TO BE REMOVED

NO.	REVISIONS	DATE	BY
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KHA PROJECT	013031004
DATE	09/29/2023
SCALE	AS SHOWN
DESIGNED BY	JAA
DRAWN BY	JAA
CHECKED BY	COB

EXISTING CONDITIONS & DEMOLITION PLAN

THE LEARNING CENTER ROLESVILLE
 PREPARED FOR
ROLESVILLE, LLC.
 TOWN OF ROLESVILLE NORTH CAROLINA

SHEET NUMBER
C1.0

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LDO Section 6.8.4.B.2, all non-residential development shall provide at least four (4) pedestrian amenities.

LDO Section 5.1.3.F, areas dedicated for drop off and pick up must be included for any site plan or permit request for a day care.

LDO Section 5.1.3.F. states that outdoor play areas and playgrounds shall be fenced with a minimum 6 foot fence. Please clearly distinguish the limits of the 6' white vinyl fence and the 4' chain link fence.

Wheel stops are required to prevent overhang into landscaped areas per LDO Section 6.4.4.A.6.

Consider placing sidewalk in this location so families do not have to walk in the parking lot to access entrance of building.

Stop Sign Location?

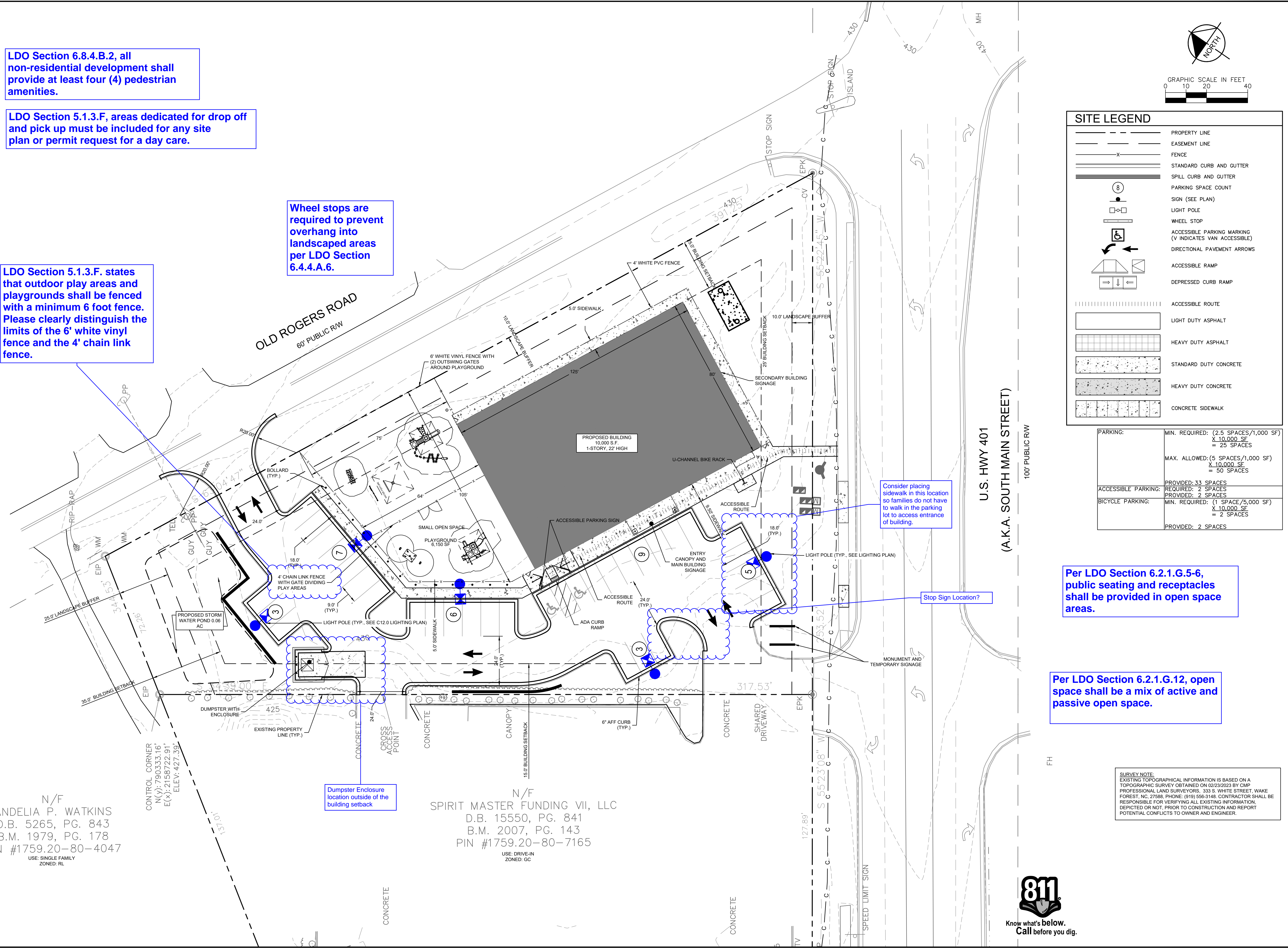
Per LDO Section 6.2.1.G.5-6, public seating and receptacles shall be provided in open space areas.

Per LDO Section 6.2.1.G.12, open space shall be a mix of active and passive open space.

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N/F
 ANDELIA P. WATKINS
 D.B. 5265, PG. 843
 B.M. 1979, PG. 178
 PIN #1759.20-80-4047
 USE: SINGLE FAMILY
 ZONED: RL

N/F
 SPIRIT MASTER FUNDING VII, LLC
 D.B. 15550, PG. 841
 B.M. 2007, PG. 143
 PIN #1759.20-80-7165
 USE: DRIVE-IN
 ZONED: GC



SITE LEGEND	
	PROPERTY LINE
	EASEMENT LINE
	FENCE
	STANDARD CURB AND GUTTER
	SPILL CURB AND GUTTER
	PARKING SPACE COUNT
	SIGN (SEE PLAN)
	LIGHT POLE
	WHEEL STOP
	ACCESSIBLE PARKING MARKING (V INDICATES VAN ACCESSIBLE)
	DIRECTIONAL PAVEMENT ARROWS
	ACCESSIBLE RAMP
	DEPRESSED CURB RAMP
	ACCESSIBLE ROUTE
	LIGHT DUTY ASPHALT
	HEAVY DUTY ASPHALT
	STANDARD DUTY CONCRETE
	HEAVY DUTY CONCRETE
	CONCRETE SIDEWALK

PARKING:	MIN. REQUIRED: (2.5 SPACES/1,000 SF) X 10,000 SF = 25 SPACES
	MAX. ALLOWED: (5 SPACES/1,000 SF) X 10,000 SF = 50 SPACES
ACCESSIBLE PARKING:	PROVIDED: 33 SPACES REQUIRED: 2 SPACES
BICYCLE PARKING:	MIN. REQUIRED: (1 SPACE/5,000 SF) X 10,000 SF = 2 SPACES
	PROVIDED: 2 SPACES

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THE LEARNING CENTER ROLESVILLE
 PREPARED FOR
ROLESVILLE, LLC.
 TOWN OF ROLESVILLE NORTH CAROLINA

SITE PLAN

811
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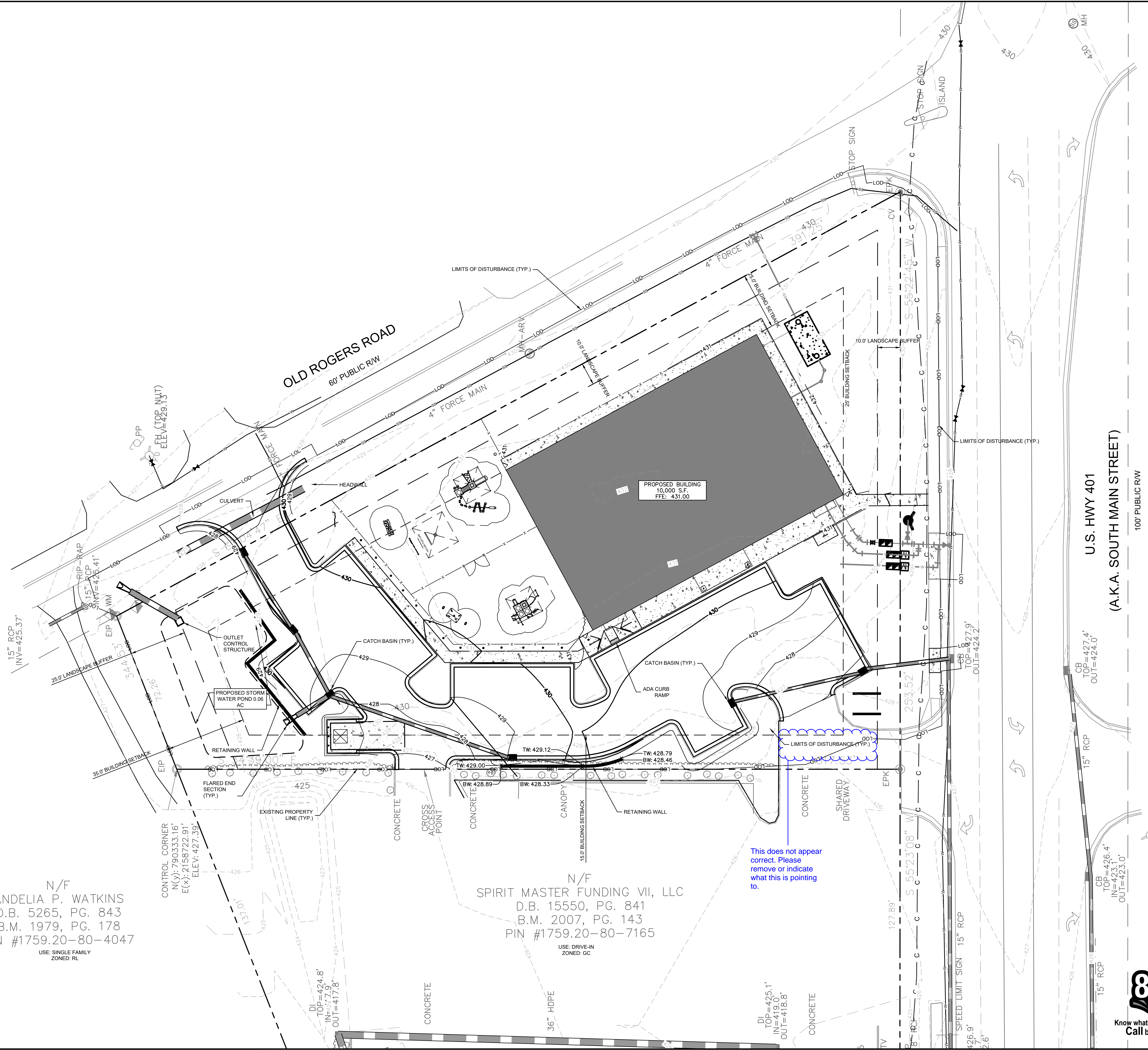
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Plotted By: Alexander, Jamal Sheet Set: THE LEARNING CENTER ROLESVILLE, Layout: C3.0 GRADING PLAN, October 02, 2023, 02:41:23pm. K:\BAL_LDE\013031004_Rolesville_Layout\013031004_C3.0 GRADING PLAN.dwg
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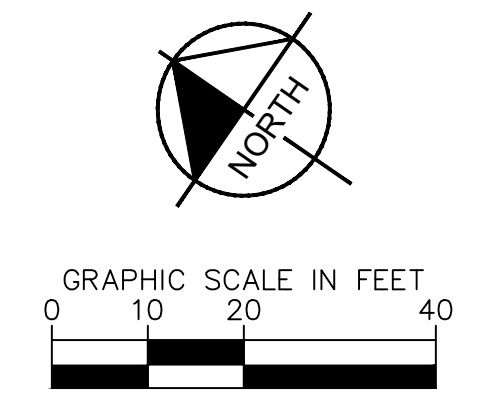
N/F
 ANDELIA P. WATKINS
 D.B. 5265, PG. 843
 B.M. 1979, PG. 178
 PIN #1759.20-80-4047
 USE: SINGLE FAMILY
 ZONED: RL

N/F
 SPIRIT MASTER FUNDING VII, LLC
 D.B. 15550, PG. 841
 B.M. 2007, PG. 143
 PIN #1759.20-80-7165
 USE: DRIVE-IN
 ZONED: GC

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GRADING AND DRAINAGE LEGEND	
	PROPERTY LINE
	TEMPORARY CONSTRUCTION EASEMENT
	STORM DRAIN (> 12 INCH)
	STORM DRAIN (< 12 INCH)
	ROOF DRAIN
	UNDER DRAIN
	CURB AND GUTTER
	SPILL CURB AND GUTTER
	CLEARING LIMITS
	EXISTING CONTOUR
	PROPOSED CONTOUR
	CATCH BASIN (CB)
	MANHOLE (SDMH)
	CLEANOUT (SDCO)
	DROP INLET (DI)
	AREA DRAIN (AD)
	CONTROL STRUCTURE (CS)
	FLARED END SECTION (FES)
	CONCRETE HEADWALL (HW)
	RIP-RAP APRON
	FLOW ARROW
	TOP OF WALL (GRADE ELEV.)
	BOTTOM OF WALL (GRADE ELEV.)
	TOP OF PAVEMENT (GRADE ELEV.)
	TOP OF CURB (GRADE ELEV.)
	FLUSH CURB (GRADE ELEV.)
	WATER TIGHT JOINTS (WT)



U.S. HWY 401
 (A.K.A. SOUTH MAIN STREET)
 100' PUBLIC RW

SURVEY NOTE:
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		7	1		
KHA PROJECT 013031004 DATE 09/29/2023 SCALE AS SHOWN DESIGNED BY JAA DRAWN BY JAA CHECKED BY COE		THE LEARNING CENTER ROLESVILLE PREPARED FOR ROLESVILLE, LLC. TOWN OF ROLESVILLE NORTH CAROLINA			
GRADING PLAN		SHEET NUMBER C3.0			

Plotted By: Alexander, Jamal Sheet Set: THE LEARNING CENTER ROLESVILLE, Layout: C4.0 UTILITY PLAN, October 02, 2023, 02:41:39pm. K:\RAL_LDE\0130031004_Rolesville_Leaning_Center\T10_CAD Files\Plan\Sheet\C4.0 UTILITY PLAN.dwg
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STANDARD UTILITY NOTES

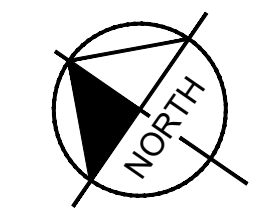
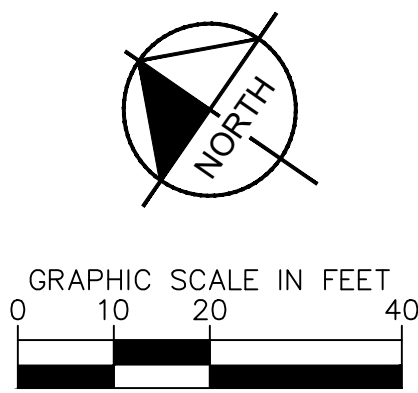
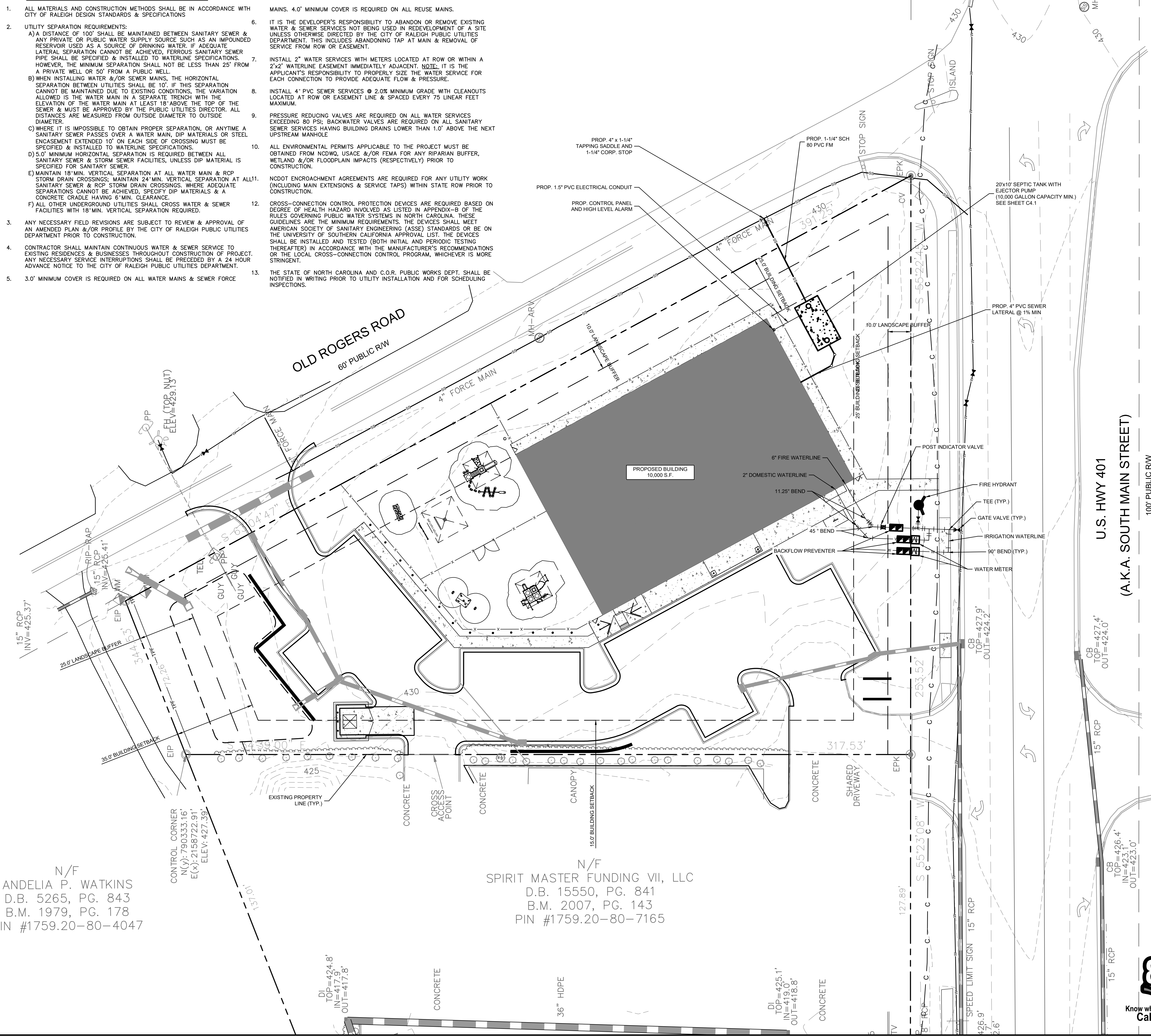
- ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS & SPECIFICATIONS
- UTILITY SEPARATION REQUIREMENTS:
 - A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL.
 - WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.
 - WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATER MAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS.
 - 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER.
 - MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATER MAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 24" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE.
 - ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED.
- ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24 HOUR ADVANCE NOTICE TO THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT.
- 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCE MAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.
- IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT.
- INSTALL 2" WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2'x2' WATERLINE EASEMENT IMMEDIATELY ADJACENT. NOTE: IT IS THE APPLICANT'S RESPONSIBILITY TO PROPERLY SIZE THE WATER SERVICE FOR EACH CONNECTION TO PROVIDE ADEQUATE FLOW & PRESSURE.
- INSTALL 4" PVC SEWER SERVICES @ 2.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM.
- PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE
- ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDOW, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION.
- NC DOT ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE ROW PRIOR TO CONSTRUCTION.
- CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX - 9 OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA. THESE GUIDELINES ARE THE MINIMUM REQUIREMENTS. THE DEVICES SHALL MEET AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS OR BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST. THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS-CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT.
- THE STATE OF NORTH CAROLINA AND C.O.R. PUBLIC WORKS DEPT. SHALL BE NOTIFIED IN WRITING PRIOR TO UTILITY INSTALLATION AND FOR SCHEDULING INSPECTIONS.

UTILITY LEGEND	
---	PROPERTY LINE
W	WATER LINE
FW	FIRE LINE
SS	SANITARY SEWER LINE
E	ELECTRIC
FO	FIBER OPTIC
G	GAS
P	POWER
T	TELECOMMUNICATION
C	CABLE
LP	LIGHT POLE
WM	WATER METER
GV	GATE VALVE
PC	POINT OF CONNECTION
BP	BACKFLOW PREVENTOR
PT	PIPE TEE/BENDS
FR	FIRE HYDRANT (FH)
FDC	FIRE DEPARTMENT CONNECTION (FDC)
SSCO	SANITARY SEWER CLEANOUT (SSCO)
SSMH	SANITARY SEWER MANHOLE (SSMH)
SGT	SANITARY SEWER GREASE TRAP

STANDARD UTILITY NOTES (CONT.)

- TRAFFIC CONTROLS FOR ANY UTILITY WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE IN COMPLIANCE WITH STANDARDS OF THE NORTH CAROLINA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- IN THE EVENT AN ITEM IS NOT COVERED BY THESE PLANS, THEN THE STANDARDS AND SPECIFICATIONS CONTAINED IN THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT HANDBOOK COVERING SUCH ITEMS SHALL APPLY.
- IF CITY OF RALEIGH WATER AND SANITARY SEWER PERMITS ARE REQUIRED, CONTRACTOR IS RESPONSIBLE FOR ALL PERMIT FEES.
- LOCATIONS AND SIZES OF EXISTING WATER AND SEWER LINES SHOWN ON THESE PLANS WITHIN THE PROPERTY LIMITS OF THE SITE ARE ASSUMED BASED ON SURVEY OF SURFACE FEATURES (MANHOLES, VALVES, VAULTS, METERS, ETC.) PREPARED BY GSC SURVEYING, INC., 4072 BARRETT DRIVE, RALEIGH, N.C. 27609. IT IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF THE EXISTING UTILITIES PRIOR TO COMMENCING WORK. ANY DEVIATIONS FROM WHAT IS INDICATED ON THESE PLANS SHALL BE REPORTED TO THE DEVELOPER AND ENGINEER, IN WRITING, IMMEDIATELY.
- CONTRACTOR SHALL PROVIDE A MEANS TO KEEP ALL NEW PIPING ISOLATED FROM EXISTING PIPING UNTIL ALL NEW PIPING HAS BEEN TESTED, AND ACCEPTED FOR SERVICE.
- EXISTING UTILITIES SHALL BE PROTECTED DURING ALL CONSTRUCTION.
- THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE UTILITIES. ALL PUBLIC PIPE, STRUCTURES, AND FITTINGS SHALL BE INSPECTED BY THE CITY INSPECTOR PRIOR TO BEING COVERED. THE INSPECTOR MUST ALSO BE PRESENT DURING DISINFECTION AND PRESSURE TESTING OF ALL MAINS. THE CONTRACTOR'S BID PRICE SHALL INCLUDE ALL INSPECTION FEES.
- UTILITY WORK SHALL BE INSPECTED AND ACCEPTED BY CITY OF RALEIGH PRIOR TO PLACING INTO SERVICE.
- THERE SHALL BE A MINIMUM 3' CLEAR DISTANCE AROUND ALL FIRE HYDRANTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING "AS-BUILT" PLANS, PER CITY OF RALEIGH REQUIREMENTS, TO THE ENGINEER SHOWING THE LOCATION OF WATER AND SEWER SERVICES AND ANY DEVIATIONS FROM PLANS MADE DURING CONSTRUCTION. THE ENGINEER WILL PROVIDE THESE RECORD PLANS TO THE CITY OF RALEIGH.

SURVEY NOTE:
 EXISTING TOPOGRAPHICAL INFORMATION IS BASED ON A TOPOGRAPHIC SURVEY OBTAINED ON 02/23/2023 BY CMP PROFESSIONAL LAND SURVEYORS, 333 S. WHITE STREET, WAKE FOREST, NC 27588. PHONE: (919) 556-3148. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION, DEPICTED OR NOT, PRIOR TO CONSTRUCTION AND REPORT POTENTIAL CONFLICTS TO OWNER AND ENGINEER.



N/F
 ANDELIA P. WATKINS
 D.B. 5265, PG. 843
 B.M. 1979, PG. 178
 PIN #1759.20-80-4047

N/F
 SPIRIT MASTER FUNDING VII, LLC
 D.B. 15550, PG. 841
 B.M. 2007, PG. 143
 PIN #1759.20-80-7165

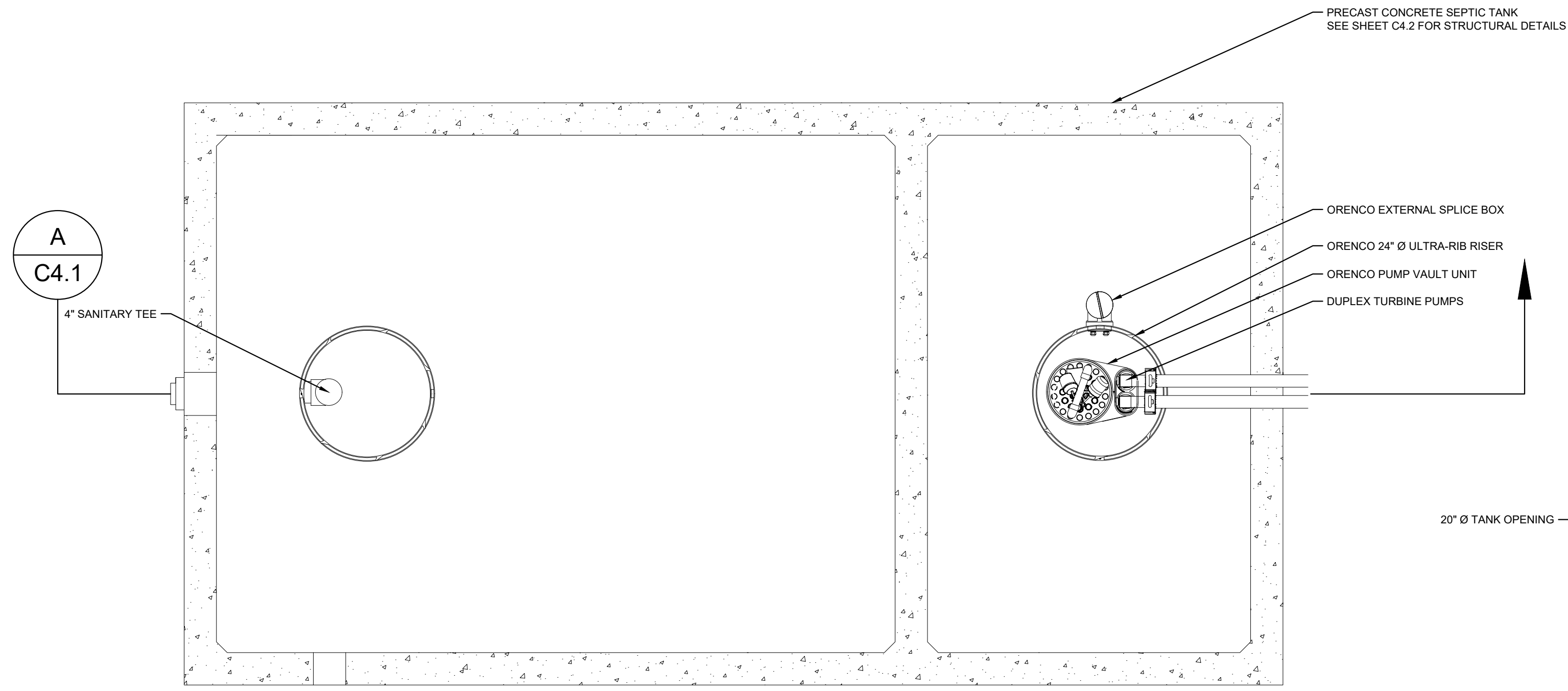


		REVISIONS No. DATE BY	
		1 2 3 4 5 6 7	No. DATE BY
KHA PROJECT 013031004		DATE 09/29/2023	
SCALE AS SHOWN		DESIGNED BY JAA	
DRAWN BY JAA		CHECKED BY COB	
THE LEARNING CENTER ROLESVILLE PREPARED FOR ROLESVILLE, LLC. TOWN OF ROLESVILLE NORTH CAROLINA		SHEET NUMBER C4.0	

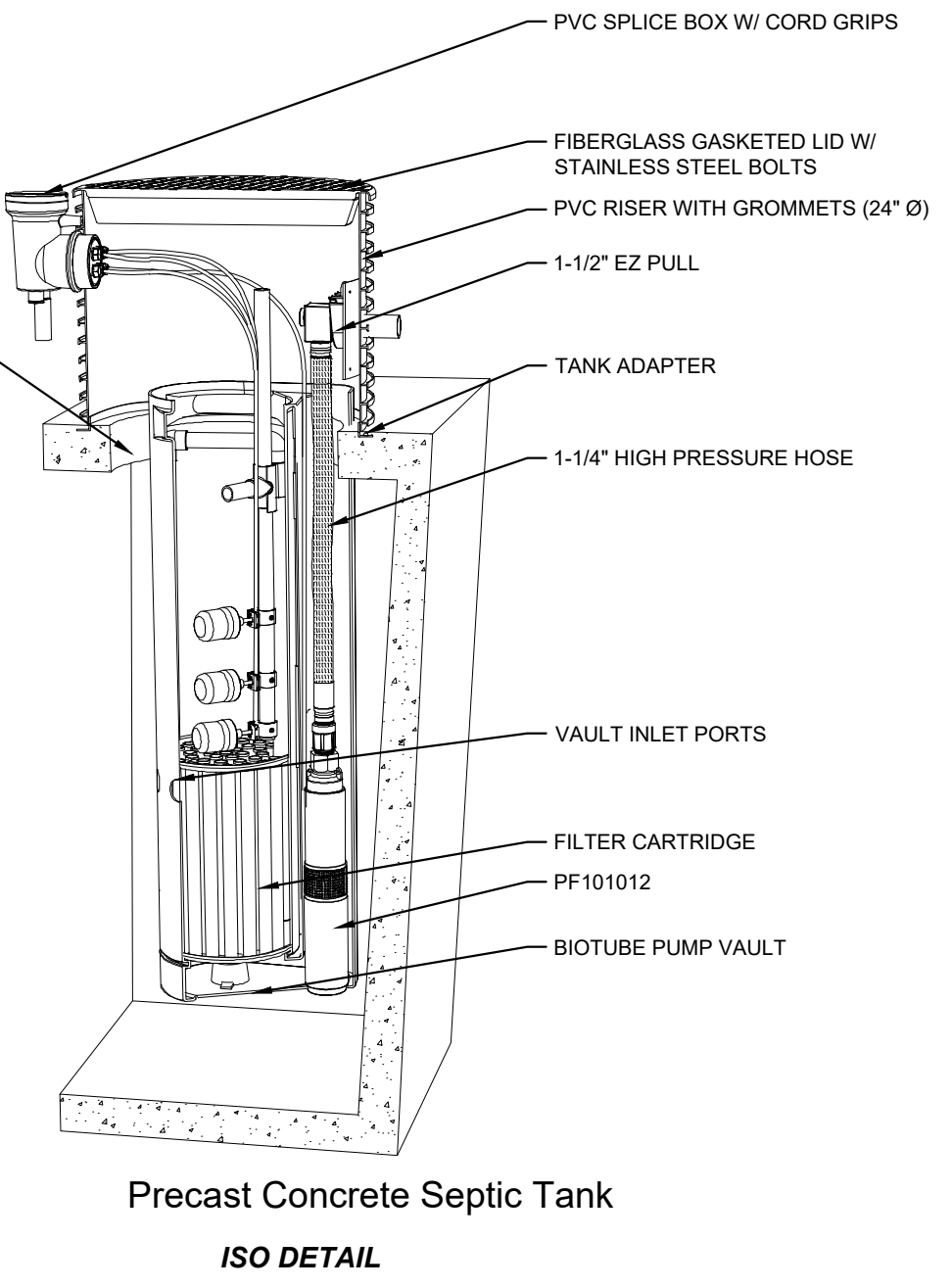
Plotted By: Alexander, Jamal Sheet Set: THE LEARNING CENTER ROLESVILLE Layout: C4.1 MECHANICAL PLAN October 02, 2023 02:41:52pm K:\RAL_LDEV\013031004_Rolesville_Learning_Center\P10_CAD Files\PlanSheets\C4.1_MECHANICAL PLAN.dwg
 This document, together with the concepts and designs presented herein, is an instrument of service, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

NOTES:
 1) PROPOSED STEP SYSTEM SHALL BE EQUIPPED WITH A "VERICOMM DAX RO" CONTROL PANEL OR APPROVED EQUAL. CONTACT MICHAEL CLAYTON (MCLAYTON@AQWA.NET, 252-292-1667) FOR STEP SYSTEM SPECIFICATIONS.

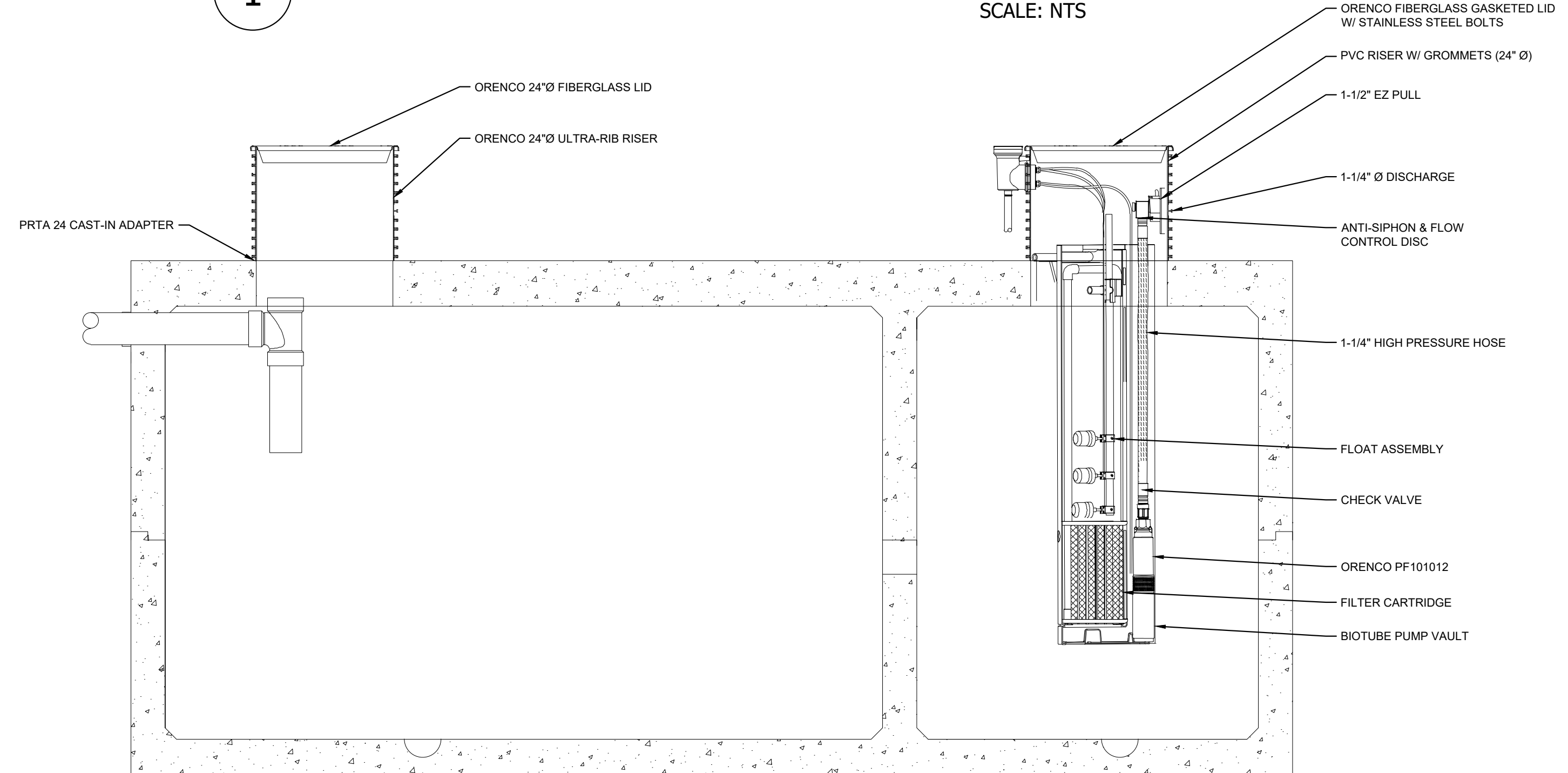
PUMP STATION GENERAL INFORMATION	
AVERAGE DAILY FLOW	4,400 GPD
TANK DIMENSIONS	20'x10'x7'-9" (INSIDE DIMENSIONS), 10,000 GAL MIN.
DISCHARGE PIPING	1.25" Ø SCH 80 PVC
HORSEPOWER	1 HP (NON-OVERLOADING OVER ENTIRE PUMP CURVE)
VOLTAGE/PHASE/CYCLES	240 V / 1 PHASE / 60 HZ
PUMP	ORENCO PF101012
PRIMARY LEVEL SENSING METHOD	FLOATS (3)



1 MECHANICAL PLAN VIEW
 SCALE: NTS

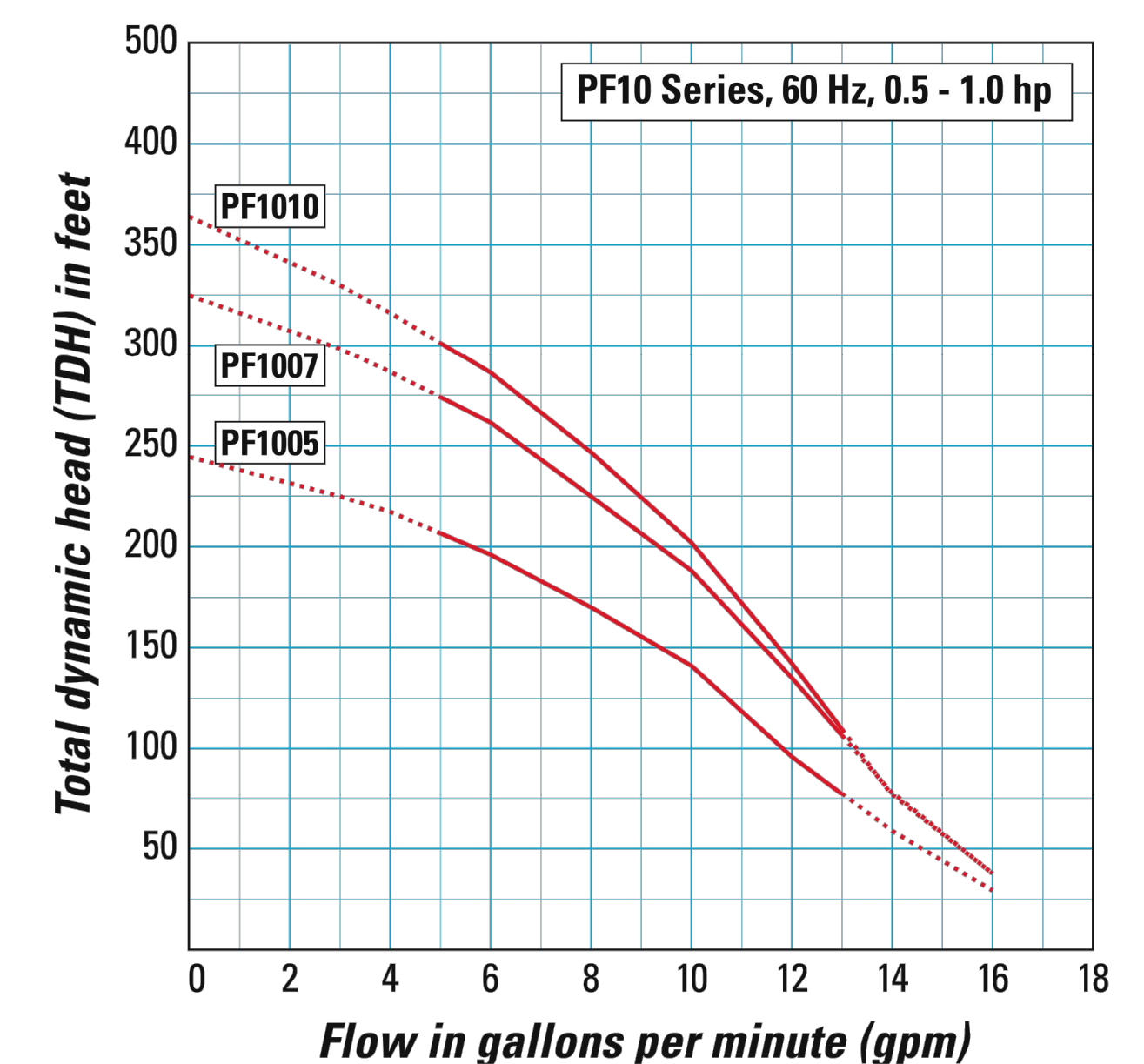


Precast Concrete Septic Tank
 ISO DETAIL



A C4.1 MECHANICAL SECTION VIEW
 SCALE: NTS

Pump Curves

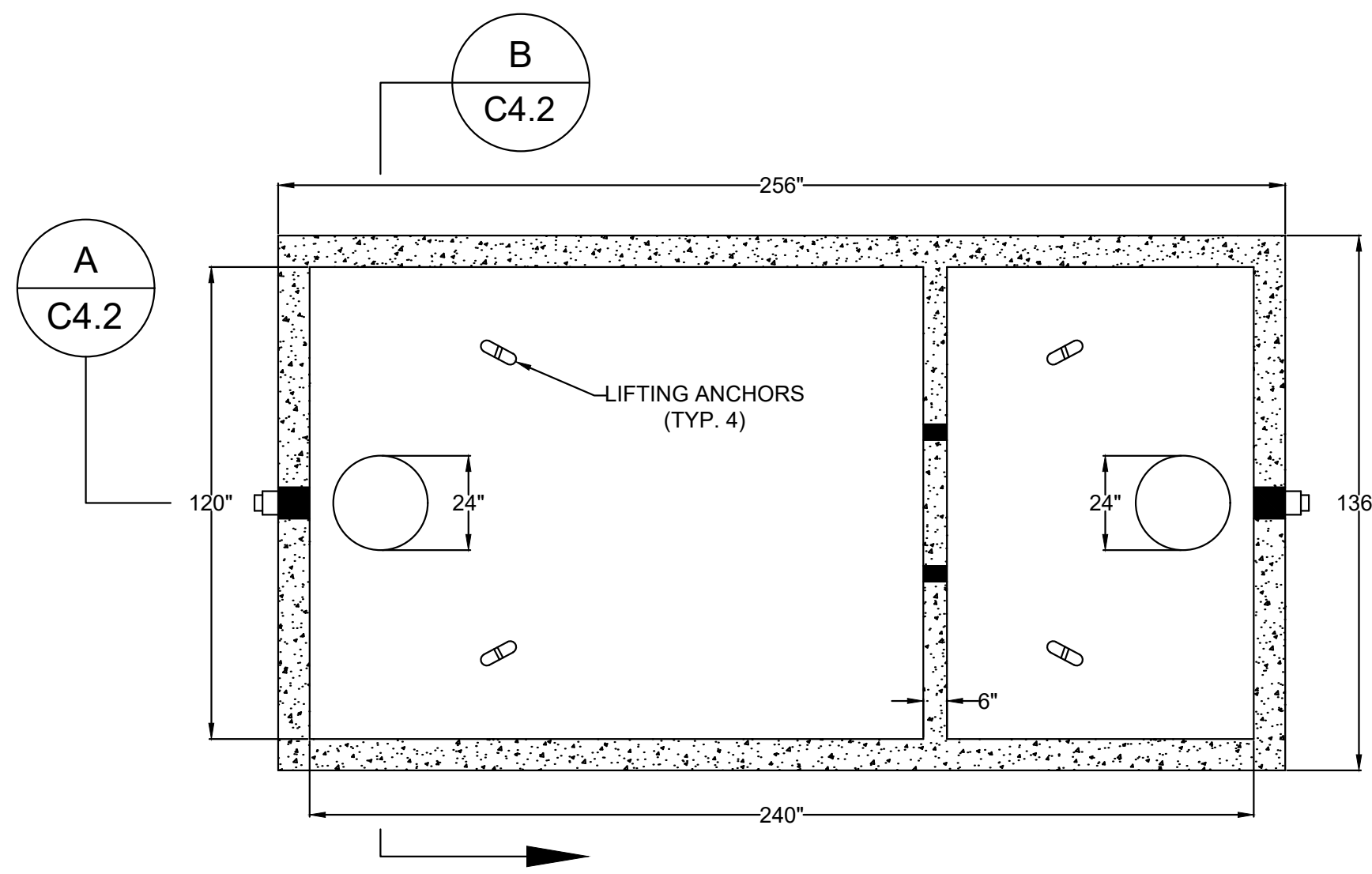


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<p>© 2023 KIMLEY-HORN AND ASSOCIATES, INC. #F-0102 WWW.KIMLEY-HORN.COM PHONE: 919-677-2000 FAX: 919-677-2050 421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601</p>	KHA PROJECT 013031004 DATE 09/29/2023 SCALE AS SHOWN DESIGNED BY JAA DRAWN BY JAA CHECKED BY COE
	NORTH CAROLINA PRELIMINARY NOT FOR CONSTRUCTION SHEET NO. C4.1 OF 2
MECHANICAL PLAN	
THE LEARNING CENTER ROLESVILLE PREPARED FOR ROLESVILLE, LLC. TOWN OF ROLESVILLE NORTH CAROLINA	
SHEET NUMBER C4.1	

Plotted By: Alexander, Jamal Sheet Set: THE LEARNING CENTER ROLESVILLE, Layout: C4.2 SEPTIC TANK DETAILS, October 02, 2023, 02:42:04pm. K:\RAL_LDEV\013031004_Rolesville_Leaning_Center\PI0_CAD_Plan\Sheets\C4.2 SEPTIC TANK DETAILS.dwg. This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

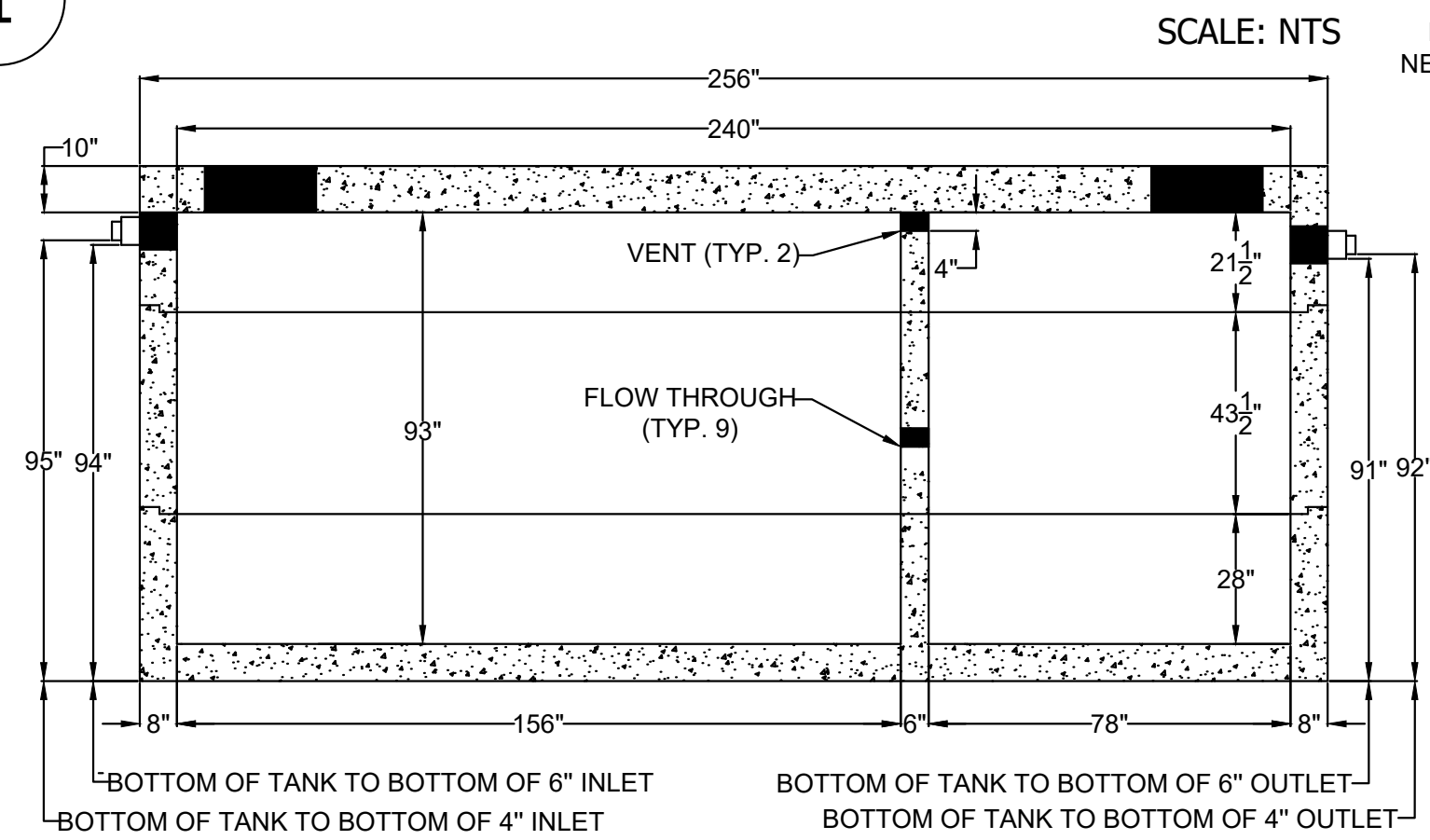


1 STRUCTURAL PLAN VIEW

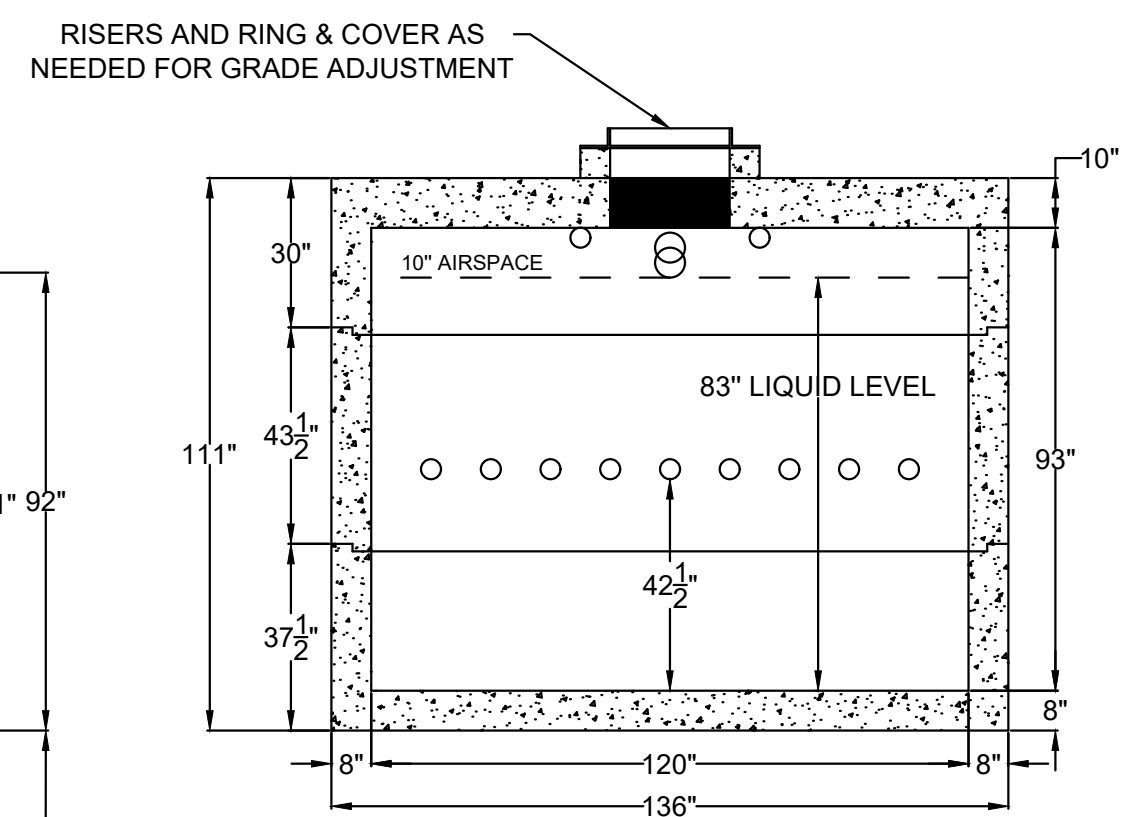
**SHOAF - 10,000 GAL. SEPTIC TANK
HS/20 TRAFFIC RATED**

SHOAF PRECAST INC.
4130 W US HWY 64
LEXINGTON, NC 27295
PHONE (336) 787-5826
FAX (336) 787-2826
info@shoafprecast.com
www.shoafprecast.com

- GAL. PER INCH - 121.56
- 2 TO 1 LENGTH TO WIDTH RATIO
- PIPE PENETRATION SEALS MEET ASTM C-923
- 1 1/4" BUTYL RUBBER SEALANT CONTINUOUS IN JOINTS
- REINFORCED PER ENGINEER SPECS
- CONCRETE - 5,000 PSI MIN.
- TANK WEIGHT - 106,000 #
- TOP - 40,000 #
- BOTTOM - 40,000 #
- RISER SECTION - 26,000 #



A STRUCTURAL SECTION VIEW
SCALE: NTS



B STRUCTURAL SECTION VIEW
SCALE: NTS

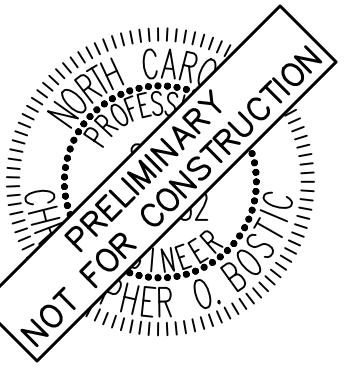
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No.	REVISIONS	DATE	BY

Kimley»Horn

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421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601
#F-0102 WWW.KIMLEY-HORN.COM PHONE: 919-677-2000 FAX: 919-677-2050



KHA PROJECT	013031004
DATE	09/29/2023
SCALE	AS SHOWN
DESIGNED BY	JAA
DRAWN BY	JAA
CHECKED BY	COB

**SEPTIC TANK
DETAILS**

**THE LEARNING
CENTER ROLESVILLE**
PREPARED FOR
ROLESVILLE, LLC.
TOWN OF ROLESVILLE
NORTH CAROLINA

SHEET NUMBER
C4.2

SELF MONITORING AND INSPECTION NOTIFICATION

THE SEDIMENTATION POLLUTION CONTROL ACT WAS AMENDED IN 2008 TO REQUIRE THAT PERSONS RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES INSPECT A PROJECT AFTER EACH PHASE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. RULES DETAILING THE DOCUMENTATION OF THESE INSPECTIONS BECAME EFFECTIVE OCTOBER 1, 2010. TO SIMPLIFY DOCUMENTATION OF SELF-INSPECTION REPORTS AND NPDES SELF-MONITORING REPORTS, A COMBINED FORM IS NOW AVAILABLE. THE NEW FORM WAS DEVELOPED TO SATISFY THE REQUIREMENTS OF THE SEDIMENTATION POLLUTION CONTROL ACT AND THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES, NCDENR 010000, BEGINNING AUGUST 1, 2013. THE DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES IS RESPONSIBLE FOR ADMINISTERING BOTH THE SPCA AND THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES. NCS 010000. THE COMBINED FORM SHOULD MAKE IT EASIER TO COMPLY WITH SELF-INSPECTION REQUIREMENTS. THE COMBINED SELF-MONITORING FORM IS AVAILABLE AS A PDF AND WORD DOCUMENT FROM THE LAND QUALITY WEB SITE, <http://portal.ncdenr.org/web/erosion>. IF YOU HAVE QUESTIONS, PLEASE CONTACT THE LAND QUALITY SECTION AT NCDENR REGIONAL OFFICE.

MAINTENANCE NOTES:

DURING THE DEVELOPMENT OF A SITE, THE DEVELOPER SHALL INSTALL AND MAINTAIN ALL TEMPORARY AND PERMANENT STORMWATER CONTROL MEASURES AS REQUIRED BY THE APPROVED PLAN OR ANY PROVISION OF THIS ARTICLE. THE ACT OR ANY ORDER ADOPTED PURSUANT TO THIS ARTICLE OR THE ACT AFTER SITE DEVELOPMENT, THE DEVELOPER SHALL INSTALL AND/OR MAINTAIN ALL NECESSARY PERMANENT STORMWATER CONTROL MEASURES SPECIFIED IN THE APPROVED PLAN, EXCEPT THOSE MEASURES INSTALLED WITHIN A ROAD OR STREET RIGHT-OF-WAY OR EASEMENT ACCEPTED FOR MAINTENANCE BY A GOVERNMENTAL AGENCY. CONVEYANCE OF THE PROPERTY SHALL NOT TERMINATE THE ORIGINAL DEVELOPER'S OBLIGATIONS UNDER THIS ARTICLE UNTIL SUCH TIME AS A REPLACEMENT PERMIT IS APPROVED BY THE COUNTY ENGINEER, OR DESIGNEE. THE ORIGINAL DEVELOPER SHALL INCLUDE IN THE DEED CONVEYING THE PROPERTY NOTICE OF THE EXISTENCE OF THE STORMWATER CONTROL MEASURES AND THE PURCHASER'S OBLIGATIONS TO MAINTAIN AND INSPECT THEM AND TO OBTAIN A PERMIT AND OTHERWISE COMPLY WITH THE TERMS OF THIS ARTICLE. REFER TO THE EROSION CONTROL DETAILS SHEET FOR ADDITIONAL MAINTENANCE NOTES.

- CONSTRUCTION ENTRANCE:**
INSPECT CONSTRUCTION ROADS AND PARKING AREAS PERIODICALLY FOR CONDITION OF SURFACE. TOP DRESS WITH NEW GRAVEL AS NEEDED. CHECK ROAD DITCHES AND OTHER SEEDED AREAS FOR EROSION AND SEDIMENTATION AFTER RUNOFF-PRODUCING RAINS. MAINTAIN ALL VEGETATION IN A HEALTHY, VIGOROUS CONDITION. SEDIMENT PRODUCING AREAS SHOULD BE TREATED IMMEDIATELY.
- SILT FENCE:**
INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
- SILT FENCE GRAVEL OUTLET:**
INSPECT SEDIMENT FENCE GRAVEL OUTLETS AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN. ANY RIP RAP DISPLACED MUST BE REPLACED IMMEDIATELY.
- BLOCK AND GRAVEL INLET PROTECTION:**
INSPECT THE BARRIER OF AFTER EACH RAIN AND MAKE REPAIRS AS NEEDED. REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND ANY UNSTABLE SOIL, AND EITHER SALVAGE OR DISPOSE OF IT PROPERLY. BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.

NPDES GROUND COVER REQUIREMENTS

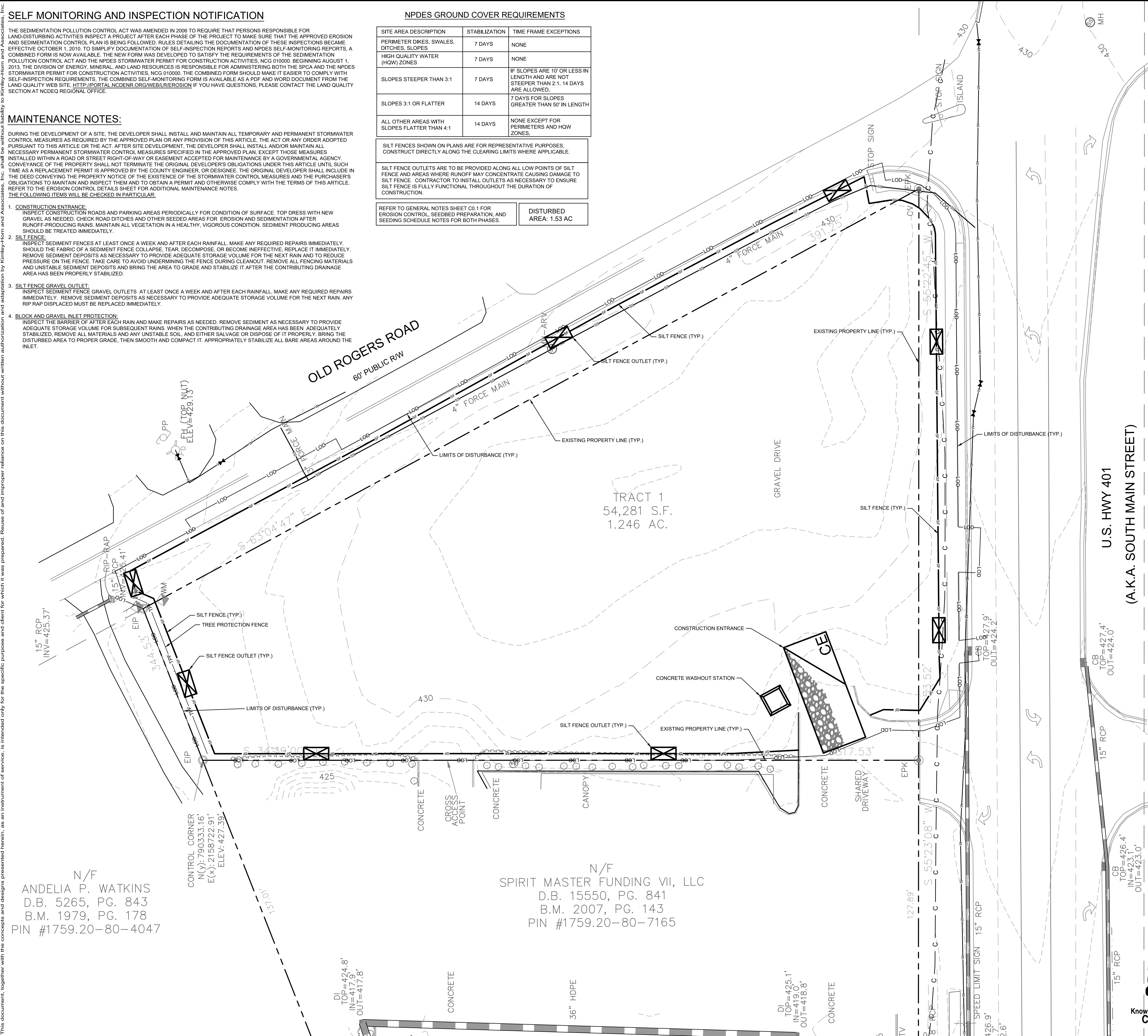
SITE AREA DESCRIPTION	STABILIZATION	TIME FRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES, SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1. 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS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

SILT FENCES SHOWN ON PLANS ARE FOR REPRESENTATIVE PURPOSES, CONSTRUCT DIRECTLY ALONG THE CLEARING LIMITS WHERE APPLICABLE.

SILT FENCE OUTLETS ARE TO BE PROVIDED ALONG ALL LOW POINTS OF SILT FENCE. CONTRACTOR TO INSTALL OUTLETS AS NECESSARY TO ENSURE SILT FENCE IS FULLY FUNCTIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.

REFER TO GENERAL NOTES SHEET C0.1 FOR EROSION CONTROL, SEEDBED PREPARATION, AND SEEDING SCHEDULE NOTES FOR BOTH PHASES.

DISTURBED AREA: 1.53 AC



EROSION CONTROL LEGEND

---	PROPERTY LINE
-TCE-	TEMPORARY CONSTRUCTION EASEMENT
CL	CLEARING LIMITS
SF	SILT FENCE
TPF	TREE PROTECTION FENCE
SF/TPF	COMBINATION TREE PROTECTION/SILT FENCE
TD	TEMPORARY DIVERSION DITCH
TD(CW)	CLEAN WATER DIVERSION DITCH
X	SEDIMENT BASIN POROUS Baffles
→	PUMP DISCHARGE HOSE
805	EXISTING CONTOUR
805	PROPOSED CONTOUR
---	DRAINAGE AREA BOUNDARY
CE	CONSTRUCTION ENTRANCE
□	SILT FENCE OUTLET
□	CONCRETE WASHOUT STATION
□	ROCK CHECK DAM
□	INLET PROTECTION
□	ROCK PIPE INLET PROTECTION
□	SKIMMER
□	TEMPORARY SLOPE DRAIN
□	RIP-RAP OUTLET PROTECTION
□	SILT BAG
□	DESIGNATED AREAS TO BE STABILIZED WITHIN 7 DAYS
□	TEMPORARY EROSION CONTROL MATTING

- PHASE 1 CONSTRUCTION SEQUENCE:**
- THE FOLLOWING PHASE 1 CONSTRUCTION SEQUENCE IS FURNISHED AS A GENERAL GUIDE FOR PREPARATION OF A SEQUENCE OF CONSTRUCTION EVENTS.
 - SCHEDULE AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH WAKE COUNTY ENVIRONMENTAL CONSULTANT TO DISCUSS EROSION CONTROL MEASURES.
 - OBTAIN LAND-DISTURBING PERMIT FROM WAKE COUNTY.
 - INSTALL TEMPORARY CONSTRUCTION ENTRANCE, SILT FENCE, INLET PROTECTION, TREE PROTECTION, AND OTHER MEASURES AS SHOWN ON PLANS. CLEARING ONLY AS NECESSARY TO INSTALL THESE DEVICES (SEE LOD FOR INITIAL CLEARING LIMITS). SEED, MAT MULCH, AND ANCHOR DIVERSION DITCHES AND BASIN IMMEDIATELY AFTER CONSTRUCTION AS APPROPRIATE.
 - CALL FOR ON-SITE INSPECTION BY WAKE COUNTY ENVIRONMENTAL CONSULTANT ONCE ALL EROSION CONTROL MEASURES ARE INSTALLED. OBTAIN CERTIFICATE OF COMPLIANCE FROM WAKE COUNTY.
 - ONCE CERTIFICATE OF COMPLIANCE HAS BEEN OBTAINED, APPLY FOR NCDEQ #NOI ON NCDEQ WEBSITE.
 - UPON APPROVAL, CLEARING AND DEMOLITION MAY BEGIN. MAINTAIN ALL EROSION CONTROL MEASURES AS NECESSARY. EROSION CONTROL MEASURES SHALL BE RESTORED TO ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO 50% OF DESIGN DEPTH.
 - INSPECT AND REPAIR EROSION CONTROL MEASURES AFTER EVERY RAINFALL EVENT OF 1/2" OR GREATER OR EVERY SEVEN (7) CALENDAR DAYS.
 - FOR PHASED EROSION CONTROL PLANS, CONTRACTOR SHALL MEET WITH EROSION CONTROL INSPECTOR PRIOR TO COMMENCING EACH PHASE OF EROSION CONTROL MEASURES. SEED AND MULCH DENUDED AREA WITHIN 15 CALENDAR DAYS AFTER ANY PHASE OF GRADING. MAINTAIN SOIL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
 - ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NCDENR EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, U.S. DEPARTMENT OF AGRICULTURE, AND TOWN OF CARY EROSION CONTROL ORDINANCE.
 - REFER TO SHEET C0.1 - GENERAL NOTES FOR GENERAL EROSION CONTROL NOTES AND MAINTENANCE.

SURVEY NOTE:
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SPIRIT MASTER FUNDING VII, LLC
D.B. 15550, PG. 841
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<p>Kimley»Horn</p> <p>© 2023 KIMLEY-HORN AND ASSOCIATES, INC. 421 FAYETTEVILLE STREET, SUITE 800, RALEIGH, NC 27601</p>	<p>DATE</p>
	<p>BY</p>
<p>REVISIONS</p>	<p>No.</p>
<p>7</p>	<p>6</p>
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<p>1</p>	<p>0</p>

NOT FOR CONSTRUCTION

KHA PROJECT	013031004
DATE	09/29/2023
SCALE	AS SHOWN
DESIGNED BY	JAA
DRAWN BY	JAA
CHECKED BY	COB

THE LEARNING CENTER ROLESVILLE

EROSION CONTROL PLAN - PHASE 1

PREPARED FOR
ROLESVILLE, LLC.

TOWN OF ROLESVILLE
NORTH CAROLINA

SHEET NUMBER
C5.0

SELF MONITORING AND INSPECTION NOTIFICATION

THE SEDIMENTATION POLLUTION CONTROL ACT WAS AMENDED IN 2006 TO REQUIRE THAT PERSONS RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES INSPECT A PROJECT AFTER EACH PHASE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. RULES DETAILING THE DOCUMENTATION OF THESE INSPECTIONS BECAME EFFECTIVE OCTOBER 1, 2010. TO SIMPLIFY DOCUMENTATION OF SELF-INSPECTION REPORTS AND NPDES SELF-MONITORING REPORTS, A COMBINED FORM IS NOW AVAILABLE. THE NEW FORM WAS DEVELOPED TO SATISFY THE REQUIREMENTS OF THE SEDIMENTATION POLLUTION CONTROL ACT AND THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES, NCG 010000, BEGINNING AUGUST 1, 2013. THE DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES IS RESPONSIBLE FOR ADMINISTERING BOTH THE SPCA AND THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES. NCG 010000. THE COMBINED FORM SHOULD MAKE IT EASIER TO COMPLY WITH SELF-INSPECTION REQUIREMENTS. THE COMBINED SELF-MONITORING FORM IS AVAILABLE AS A PDF AND WORD DOCUMENT FROM THE LAND QUALITY WEB SITE, [HTTP://PORTAL.NC DENR.ORG/WEB/LR/EROSION](http://portal.ncdenr.org/web/lor/erosion) IF YOU HAVE QUESTIONS, PLEASE CONTACT THE LAND QUALITY SECTION AT NCDEQ REGIONAL OFFICE.

MAINTENANCE NOTES:

DURING THE DEVELOPMENT OF A SITE, THE DEVELOPER SHALL INSTALL AND MAINTAIN ALL TEMPORARY AND PERMANENT STORMWATER CONTROL MEASURES AS REQUIRED BY THE APPROVED PLAN OR ANY PROVISION OF THIS ARTICLE. THE ACT OR ANY ORDER ADOPTED PURSUANT TO THIS ARTICLE OR THE ACT, AFTER SITE DEVELOPMENT, THE DEVELOPER SHALL INSTALL AND/OR MAINTAIN ALL NECESSARY PERMANENT STORMWATER CONTROL MEASURES SPECIFIED IN THE APPROVED PLAN, EXCEPT THOSE MEASURES INSTALLED WITHIN A ROAD OR STREET RIGHT-OF-WAY OR EASEMENT ACCEPTED FOR MAINTENANCE BY A GOVERNMENTAL AGENCY. CONVEYANCE OF THE PROPERTY SHALL NOT TERMINATE THE ORIGINAL DEVELOPER'S OBLIGATIONS UNDER THIS ARTICLE UNTIL SUCH TIME AS A REPLACEMENT PERMIT IS APPROVED BY THE COUNTY ENGINEER, OR DESIGNEE. THE ORIGINAL DEVELOPER SHALL INCLUDE IN THE DEED CONVEYING THE PROPERTY NOTICE OF THE EXISTENCE OF THE STORMWATER CONTROL MEASURES AND THE PURCHASER'S OBLIGATIONS TO MAINTAIN AND INSPECT THEM AND TO OBTAIN A PERMIT AND OTHERWISE COMPLY WITH THE TERMS OF THIS ARTICLE. REFER TO THE EROSION CONTROL DETAILS SHEET FOR ADDITIONAL MAINTENANCE NOTES. THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:

- CONSTRUCTION ENTRANCE:**
INSPECT CONSTRUCTION ROADS AND PARKING AREAS PERIODICALLY FOR CONDITION OF SURFACE. TOP DRESS WITH NEW GRAVEL AS NEEDED. CHECK ROAD DITCHES AND OTHER SEEDED AREAS FOR EROSION AND SEDIMENTATION AFTER RUNOFF-PRODUCING RAINS. MAINTAIN ALL VEGETATION IN A HEALTHY, VIGOROUS CONDITION. SEDIMENT PRODUCING AREAS SHOULD BE TREATED IMMEDIATELY.
- SILT FENCE:**
INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
- SILT FENCE GRAVEL OUTLET:**
INSPECT SEDIMENT FENCE GRAVEL OUTLETS AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN. ANY RIP RAP DISPLACED MUST BE REPLACED IMMEDIATELY.
- BLOCK AND GRAVEL INLET PROTECTION:**
INSPECT THE BARRIER OF AFTER EACH RAIN AND MAKE REPAIRS AS NEEDED. REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND ANY UNSTABLE SOIL, AND EITHER SALVAGE OR DISPOSE OF IT PROPERLY. BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.

NPDES GROUND COVER REQUIREMENTS

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

SILT FENCES SHOWN ON PLANS ARE FOR REPRESENTATIVE PURPOSES. CONSTRUCT DIRECTLY ALONG THE CLEARING LIMITS WHERE APPLICABLE.

SILT FENCE OUTLETS ARE TO BE PROVIDED ALONG ALL LOW POINTS OF SILT FENCE AND AREAS WHERE RUNOFF MAY CONCENTRATE CAUSING DAMAGE TO SILT FENCE. CONTRACTOR TO INSTALL OUTLETS AS NECESSARY TO ENSURE SILT FENCE IS FULLY FUNCTIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.

REFER TO GENERAL NOTES SHEET C0.1 FOR EROSION CONTROL, SEEDBED PREPARATION, AND SEEDING SCHEDULE NOTES FOR BOTH PHASES.

DISTURBED AREA: 1.53 AC

EROSION CONTROL LEGEND

- PROPERTY LINE
- - - - - TCE TEMPORARY CONSTRUCTION EASEMENT
- - - - - CL CLEARING LIMITS
- - - - - SF SILT FENCE
- - - - - TPF TREE PROTECTION FENCE
- - - - - SF/TPF COMBINATION TREE PROTECTION/SILT FENCE
- - - - - TD TEMPORARY DIVERSION DITCH
- - - - - TD(CW) CLEAN WATER DIVERSION DITCH
- - - - - X SEDIMENT BASIN POROUS Baffles
- - - - - PUMP DISCHARGE HOSE
- - - - - 805 EXISTING CONTOUR
- - - - - 805 PROPOSED CONTOUR
- - - - - DRAINAGE AREA BOUNDARY
- - - - - CE CONSTRUCTION ENTRANCE
- - - - - SILT FENCE OUTLET
- - - - - CONCRETE WASHOUT STATION
- - - - - ROCK CHECK DAM
- - - - - INLET PROTECTION
- - - - - ROCK PIPE INLET PROTECTION
- - - - - SKIMMER
- - - - - TEMPORARY SLOPE DRAIN
- - - - - RIP-RAP OUTLET PROTECTION
- - - - - SILT BAG
- - - - - DESIGNATED AREAS TO BE STABILIZED WITHIN 7 DAYS
- - - - - TEMPORARY EROSION CONTROL MATTING

- PHASE 2 CONSTRUCTION SEQUENCE:**
- THE FOLLOWING PHASE 2 CONSTRUCTION SEQUENCE IS FURNISHED AS A GENERAL GUIDE FOR PREPARATION OF A SEQUENCE OF CONSTRUCTION EVENTS.
 - MAINTAIN CONSTRUCTION ENTRANCE AND SILT FENCE.
 - CALL FOR ON-SITE INSPECTION BY INSPECTOR ONCE ALL PHASE 2 EROSION CONTROL MEASURES ARE INSTALLED. OBTAIN CERTIFICATE OF COMPLIANCE FROM WAKE COUNTY.
 - CONTRACTOR IS TO CUT AND/OR FILL AREAS TO BRING THE SITE TO THE PROPOSED GRADES SHOWN ON THE GRADING AND DRAINAGE PLANS. GRADING ACTIVITY SHALL BE LIMITED TO WITHIN THE CLEARING LIMITS. MAINTAIN ALL EROSION CONTROL MEASURES AS NECESSARY.
 - PROVIDE GROUND COVER ON SLOPES GREATER THAN 3:1 WITHIN 7 DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING. PROVIDE GROUND COVER TO ALL OTHER AREAS WITHIN 14 DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING OR INACTIVITY.
 - INSTALL STORM DRAINAGE AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, SEDIMENT TRAPS, OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN.
 - STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDE AREAS PER GROUND STABILIZATION TIME FRAMES.
 - INSPECT AND REPAIR EROSION CONTROL MEASURES AFTER EVERY RAINFALL EVENT OF 1/2" OR GREATER OR EVERY SEVEN (7) CALENDAR DAYS.
 - ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NC DENR EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, U.S. DEPARTMENT OF AGRICULTURE, AND CITY OF GREENVILLE EROSION CONTROL ORDINANCE.
 - REFER TO SHEET C0.1 - GENERAL NOTES FOR GENERAL EROSION CONTROL NOTES AND MAINTENANCE.
 - ALL EROSION CONTROL MEASURES TO REMAIN IN PLACE UNTIL +/- 80% STABILIZATION IS ACHIEVED.
 - ONCE CONSTRUCTION IS COMPLETE AND ENTIRE SITE IS STABILIZED, CALL FOR FINAL INSPECTION BY WAKE COUNTY ENVIRONMENTAL CONSULTANT. IF APPROVED, REMOVE REMAINING EROSION CONTROL MEASURES. ALL REMAINING PERMANENT EROSION CONTROL DEVICES SHOULD NOW BE INSTALLED.
 - WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL INSPECTION BY WAKE COUNTY ENVIRONMENTAL CONSULTANT. OBTAIN A CERTIFICATE OF COMPLETION.

SURVEY NOTE:
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Plotted By: Alexander, Jamal Sheet: THE LEARNING CENTER ROLESVILLE, Layout: C5.1 EROSION CONTROL PLAN - PHASE 2, October 02, 2023, 02:42:31pm, K:\RAL...LDE\013031004...Rolesville...Learning...Center\P10_CAD Files\PlanSheets\C502 EROSION CONTROL PLAN.dwg
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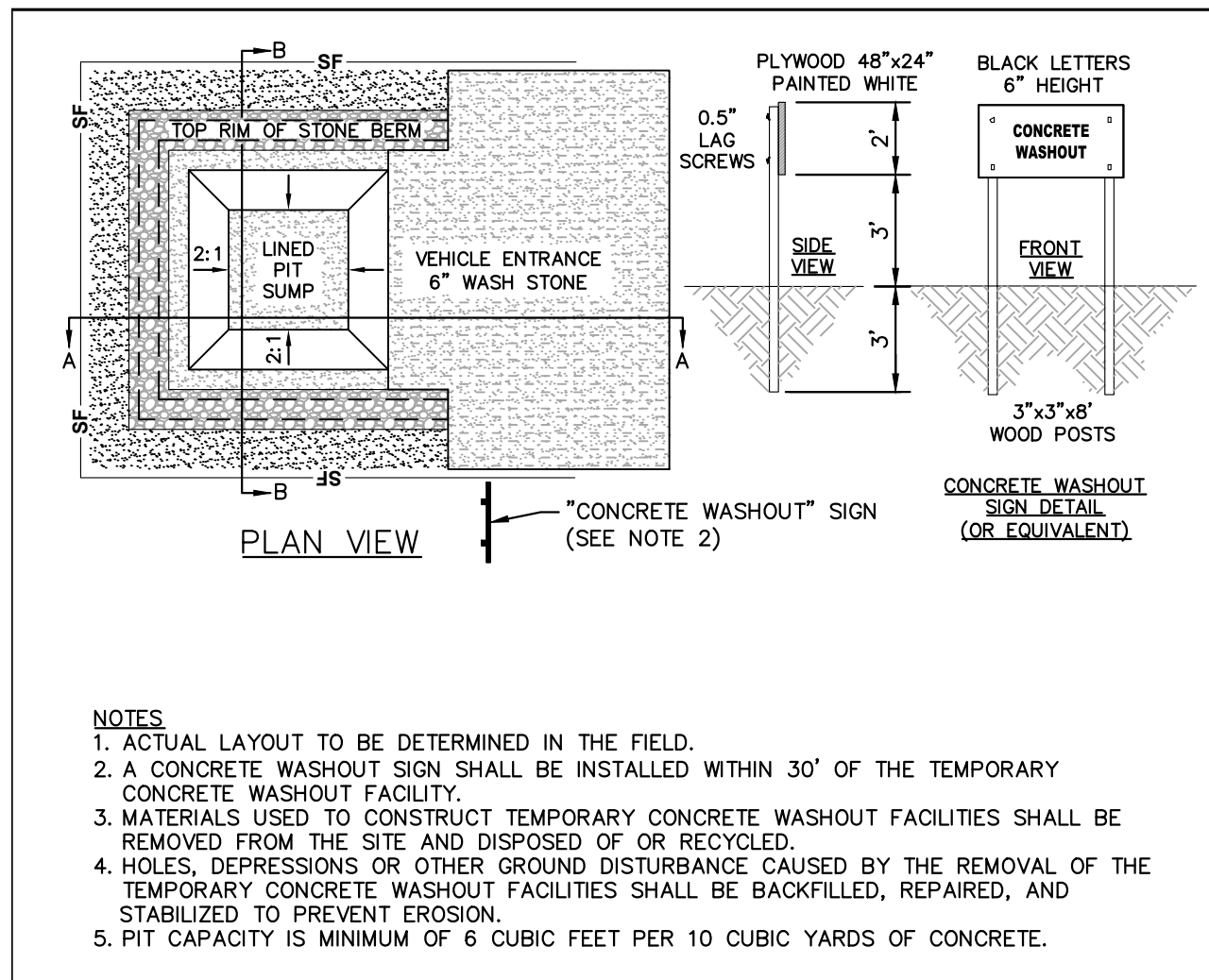
N/F
ANDELIA P. WATKINS
D.B. 5265, PG. 843
B.M. 1979, PG. 178
PIN #1759.20-80-4047

N/F
SPIRIT MASTER FUNDING VII, LLC
D.B. 15550, PG. 841
B.M. 2007, PG. 143
PIN #1759.20-80-7165

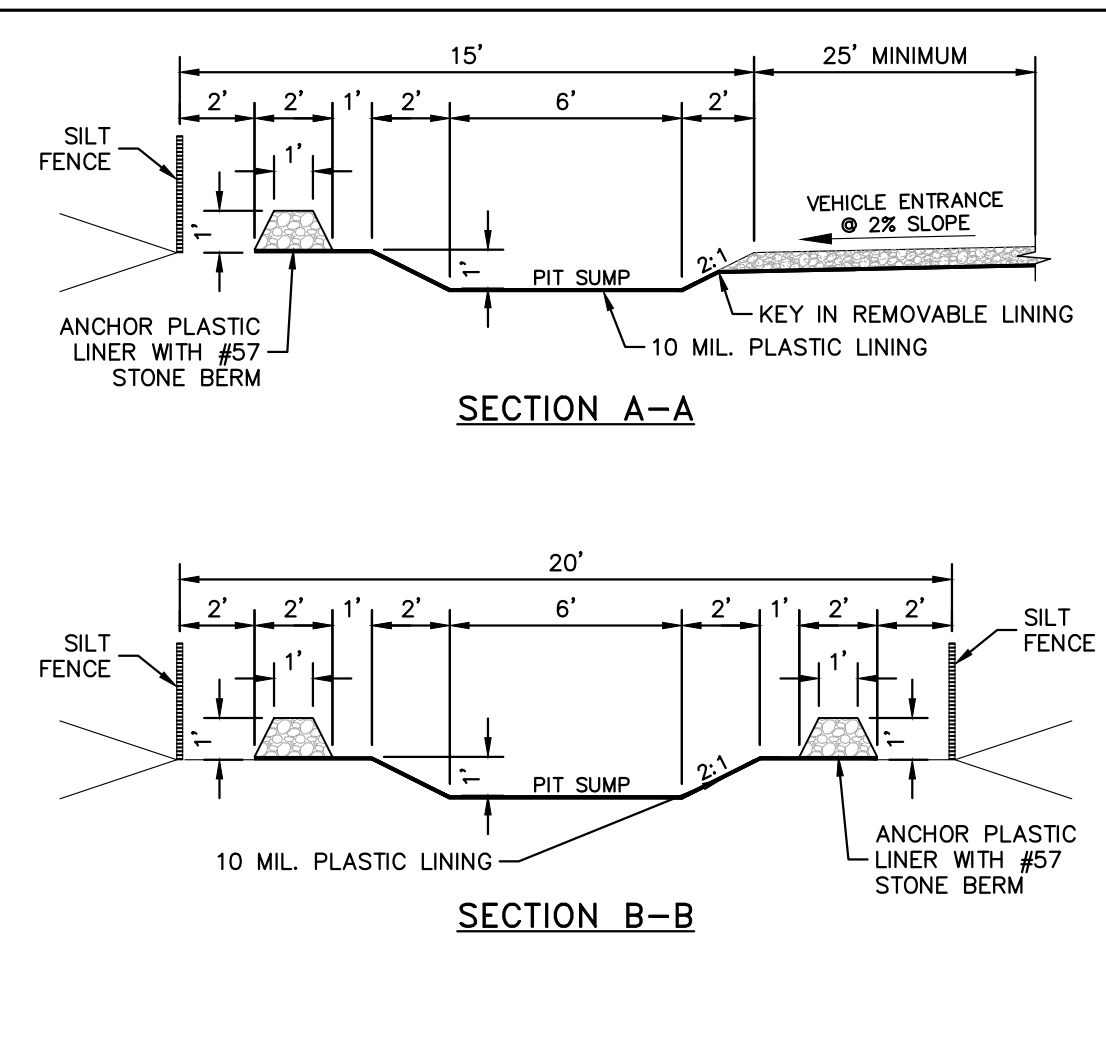


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		REVISIONS No.
KHA PROJECT 013031004	DATE 09/29/2023	SCALE AS SHOWN
DESIGNED BY JAA	DRAWN BY JAA	CHECKED BY COB
<p>THE LEARNING CENTER ROLESVILLE EROSION CONTROL PLAN - PHASE 2</p>		
<p>PREPARED FOR ROLESVILLE, LLC. TOWN OF ROLESVILLE NORTH CAROLINA</p>		
SHEET NUMBER C5.1		

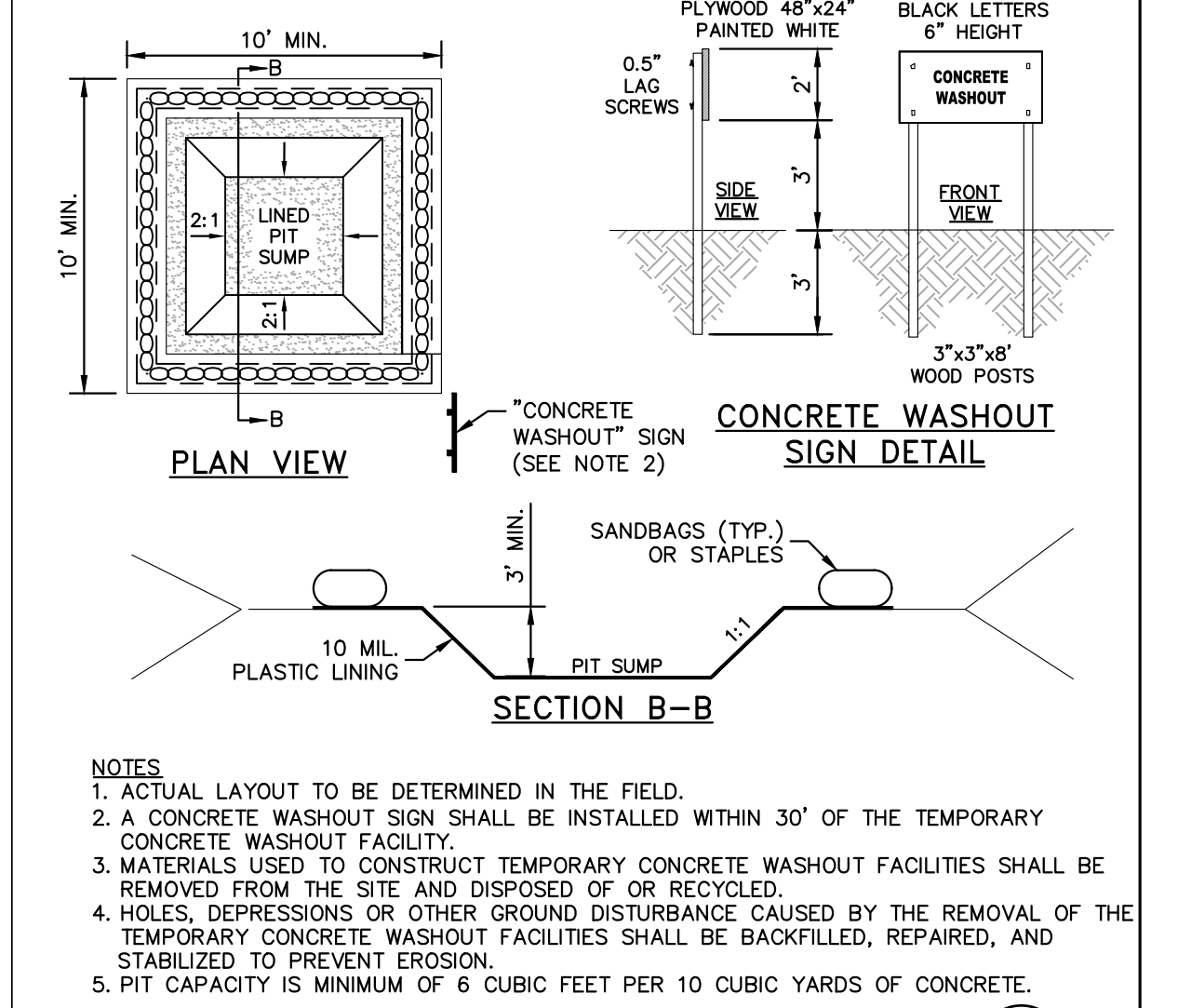
Plotted By: Alexander, Jamal Sheet Title: THE LEARNING CENTER ROLESVILLE EROSION CONTROL DETAILS October 02, 2023 02:42:49pm K:\RAL_LDEV\013031004_Rolesville_Layout\05.2 EROSION CONTROL DETAILS.dwg
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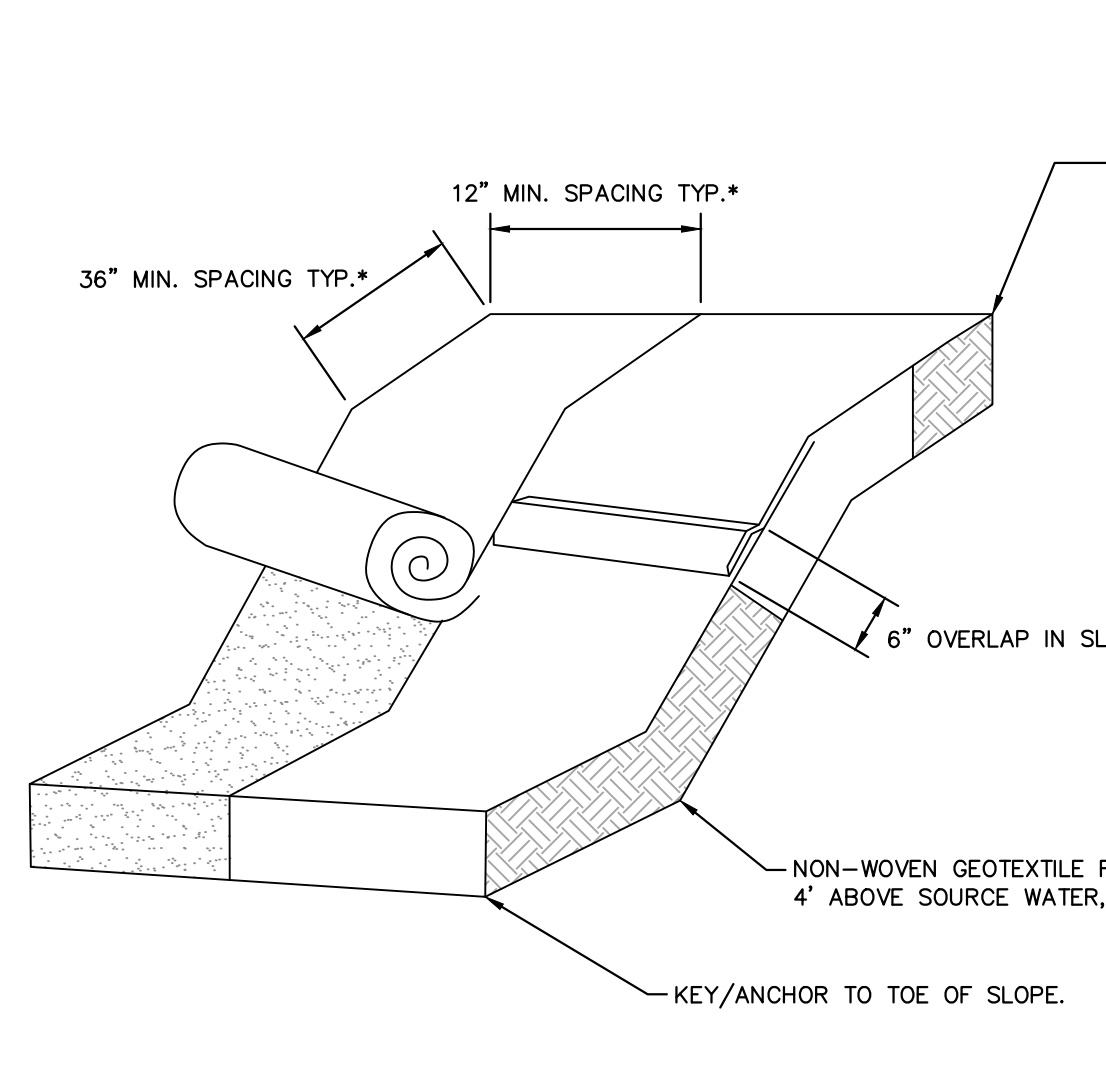
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N.T.S. KHA DETAIL NO: 01.102.R01 XX



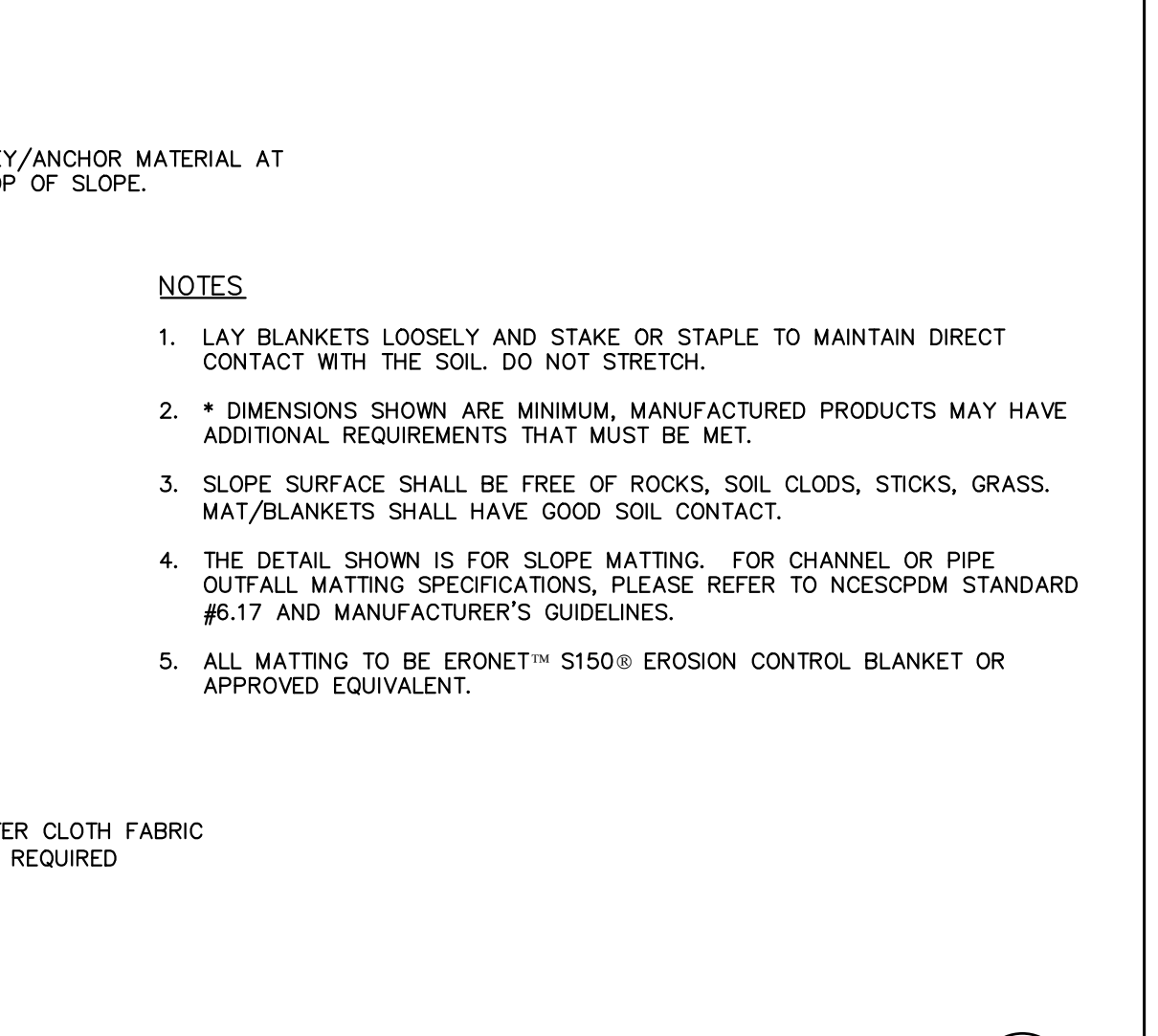
TEMPORARY SEEDING SCHEDULE AND SEEDBED PREPARATION
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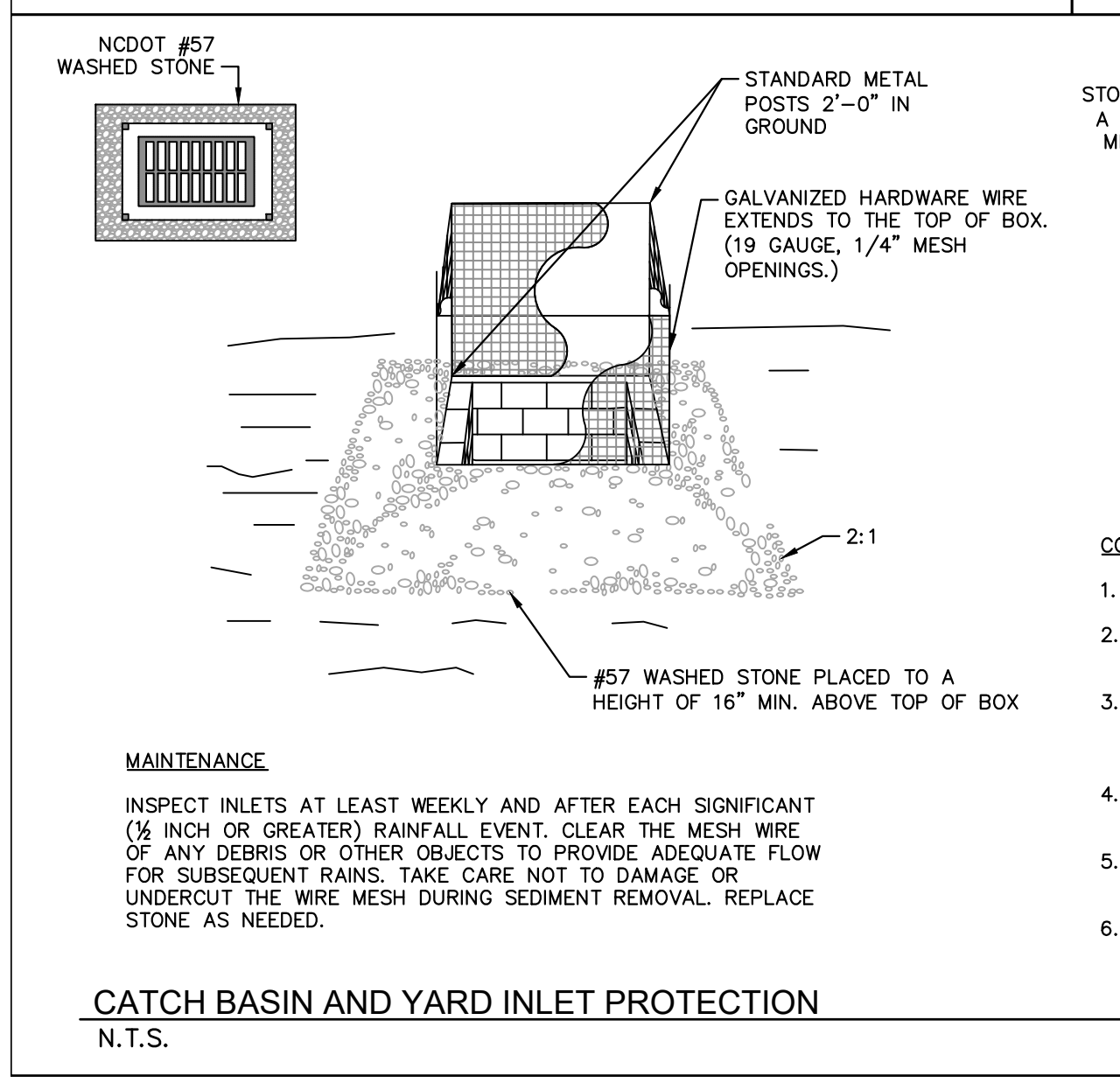
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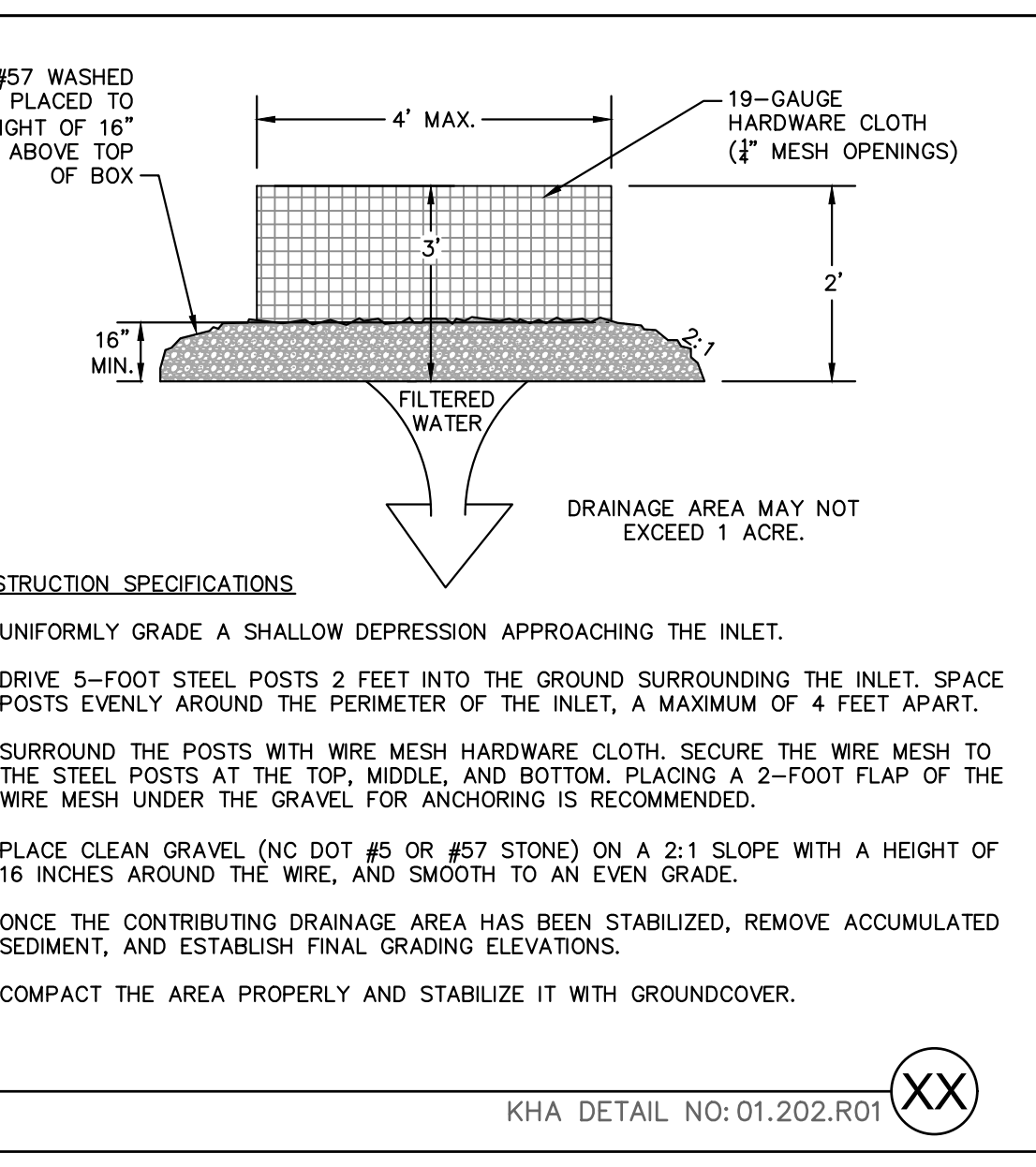
TEMPORARY MATTING
N.T.S. KHA DETAIL NO: 01.105.R01 XX



CATCH BASIN INLET PROTECTION
N.T.S. KHA DETAIL NO: 01.201.R01 XX



CATCH BASIN AND YARD INLET PROTECTION
N.T.S. KHA DETAIL NO: 01.202.R01 XX



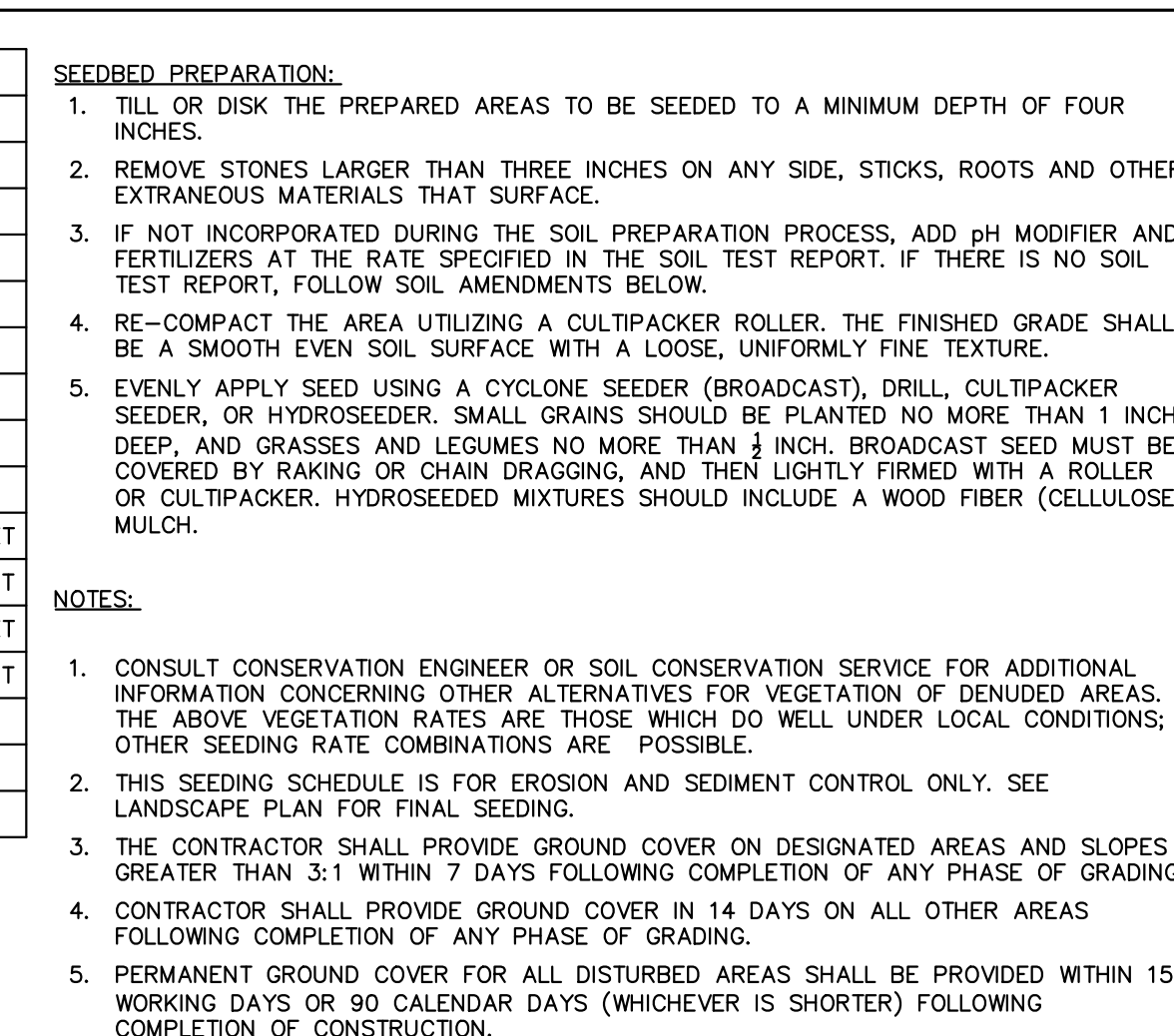
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N.T.S. KHA DETAIL NO: 01.203.R01 XX

CAPACITY CHART

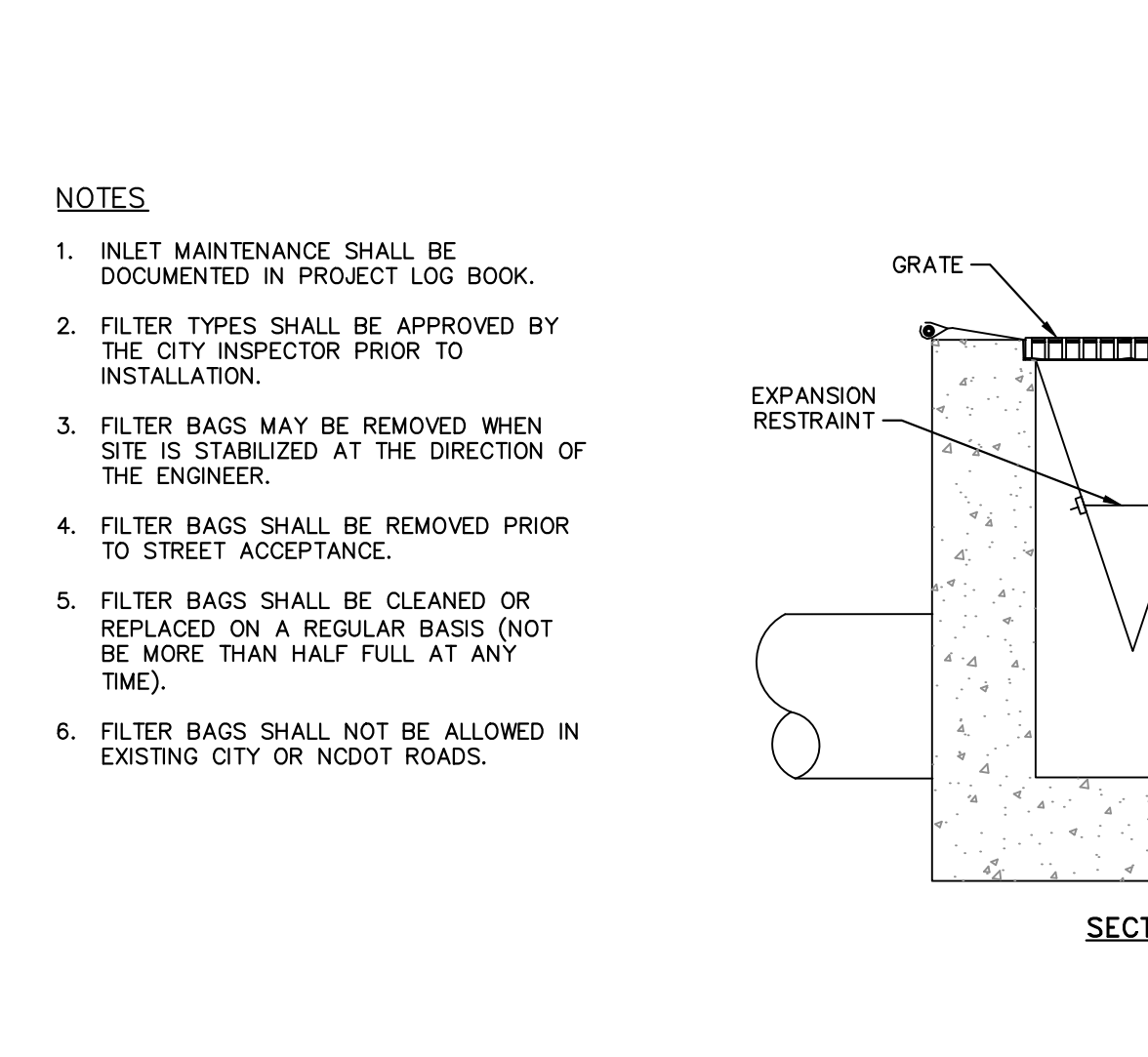
MODEL NO.	INLET SIZE	LINER DEPTH	STORAGE CAPACITY*	CLEAN FLOW RATE**
FF-2424HC	24" x 24"	12"	1.67 CU. FT.	470 GPM
"	24" x 24"	24"	4.18 CU. FT.	914 GPM
"	24" x 24"	36"	6.69 CU. FT.	1,357 GPM
FF-2436HC	24" x 36"	12"	2.55 CU. FT.	641 GPM
"	24" x 36"	24"	6.38 CU. FT.	1,201 GPM
"	24" x 36"	36"	10.20 CU. FT.	1,761 GPM
FF-3636HC-00	36" x 36"	12"	3.36 CU. FT.	772 GPM
"	36" x 36"	24"	8.39 CU. FT.	1,402 GPM
"	36" x 36"	36"	13.43 CU. FT.	2,032 GPM

* STORAGE CAPACITY REFLECTS MAXIMUM SOLIDS COLLECTION PRIOR TO IMPEDING BYPASS.
** FLOW RATES ARE "CALCULATED CLEAN FLOW RATES" BASED ON LINER MATERIAL FLOW RATE OF 70 GPM/SQ. FT. (RECOMMEND APPLYING FACTOR OF .25 TO .50 TO FLOW RATES TO ALLOW FOR SEDIMENT AND DEBRIS)

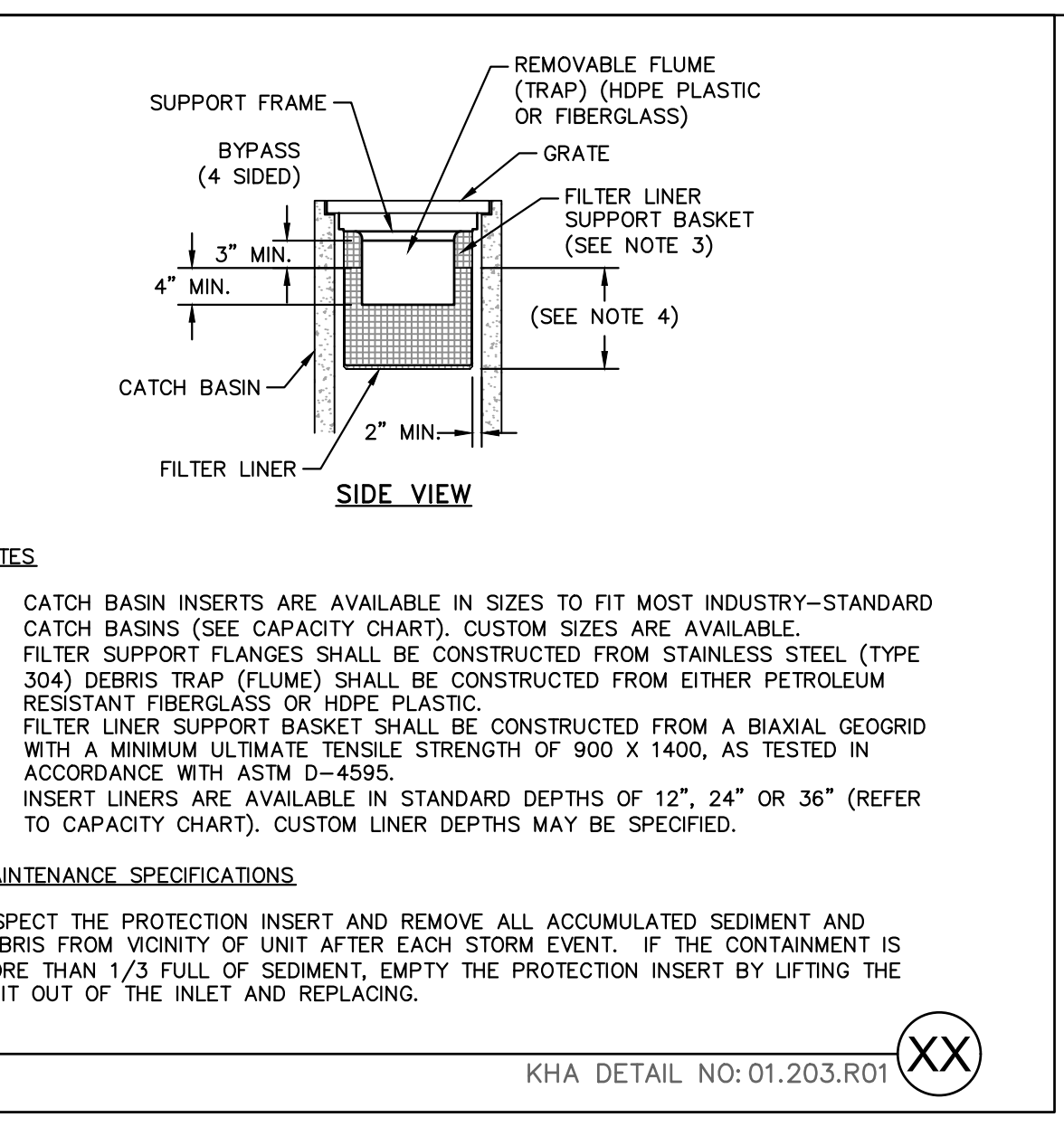
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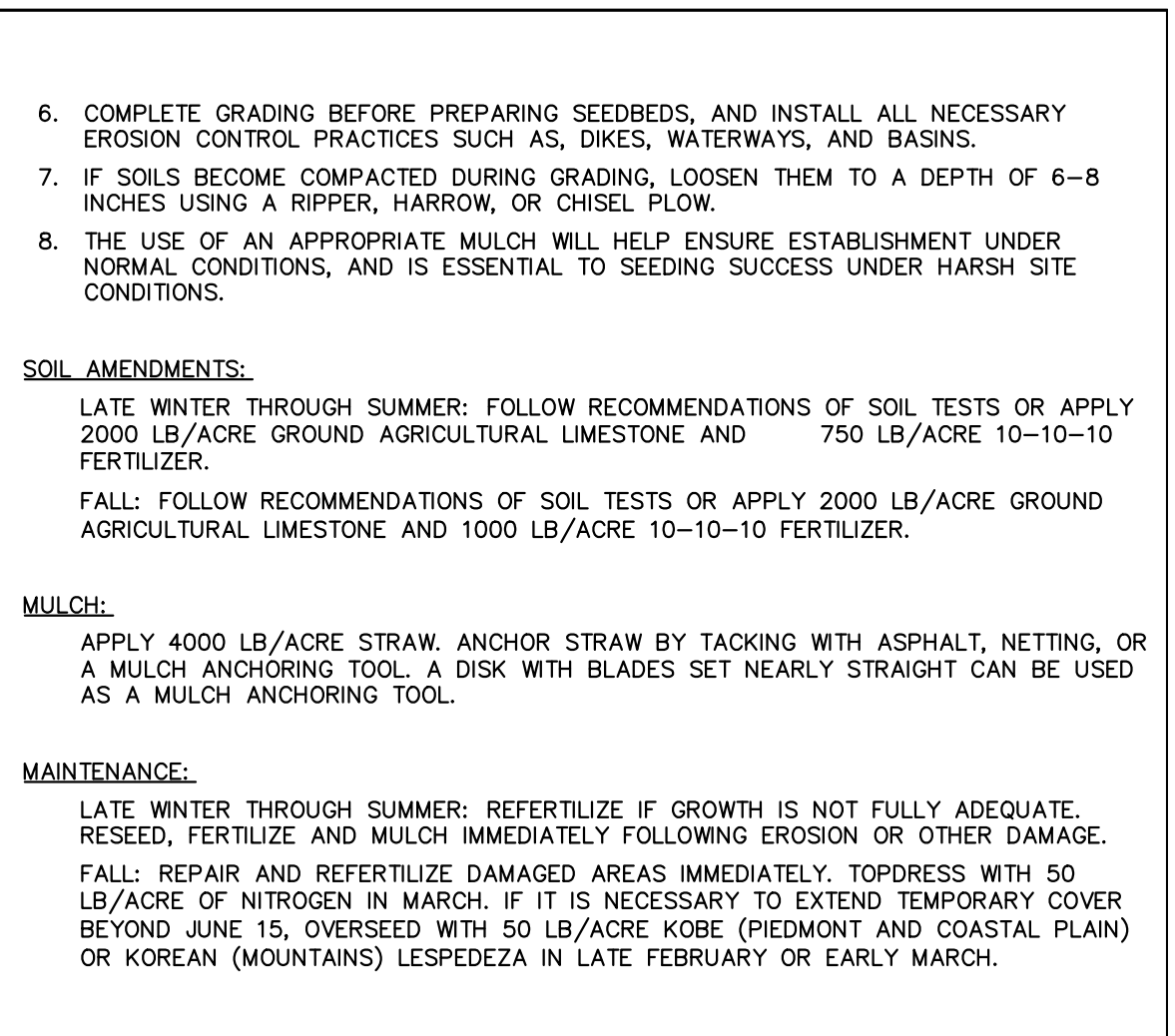
CONCRETE WASHOUT STATION
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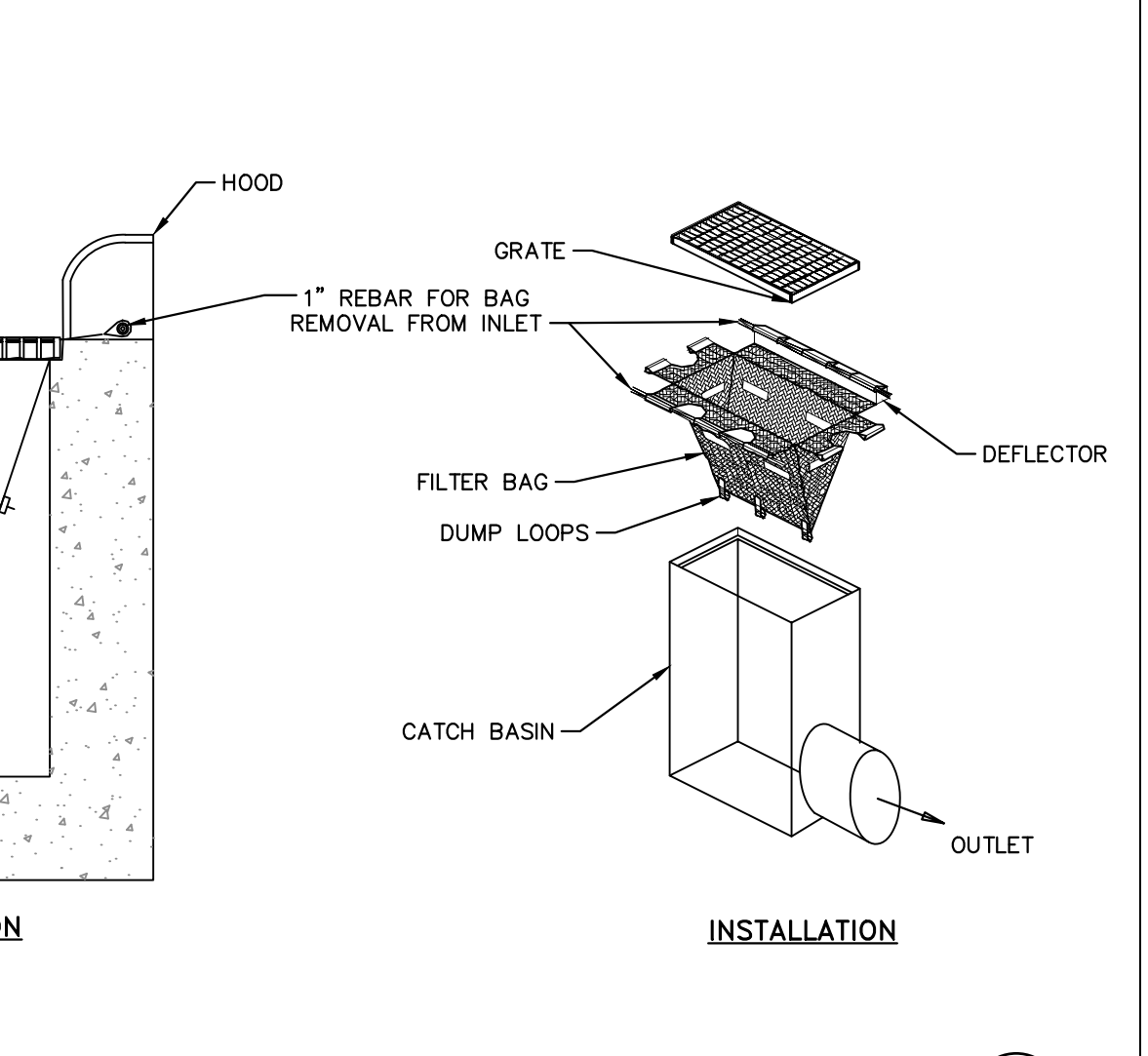
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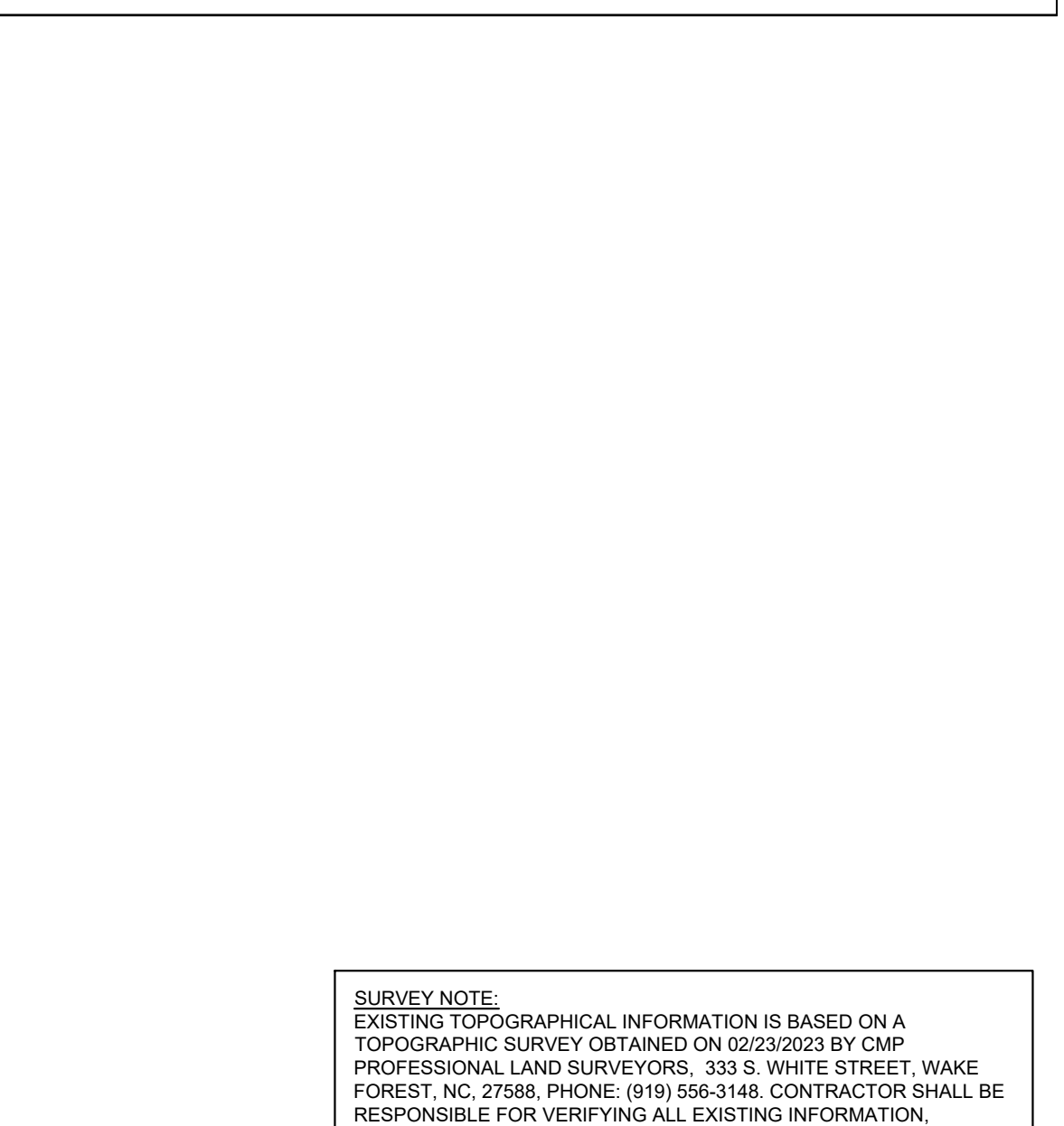
CATCH BASIN INLET PROTECTION
N.T.S. KHA DETAIL NO: 01.201.R01 XX



CATCH BASIN INLET PROTECTION
N.T.S. KHA DETAIL NO: 01.201.R01 XX



CATCH BASIN SILT PROTECTION INSERT
N.T.S. KHA DETAIL NO: 01.203.R01 XX



CATCH BASIN SILT PROTECTION INSERT
N.T.S. KHA DETAIL NO: 01.203.R01 XX

THE LEARNING CENTER ROLESVILLE EROSION CONTROL DETAILS

PREPARED FOR ROLESVILLE, LLC. NORTH CAROLINA

013031004

09/29/2023

AS SHOWN

JAA

JAA

COB

DATE

REVISIONS

NO.

DATE

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#F-0102 WWW.KIMLEY-HORN.COM PHONE: 919.677.2000 FAX: 919.677.2050
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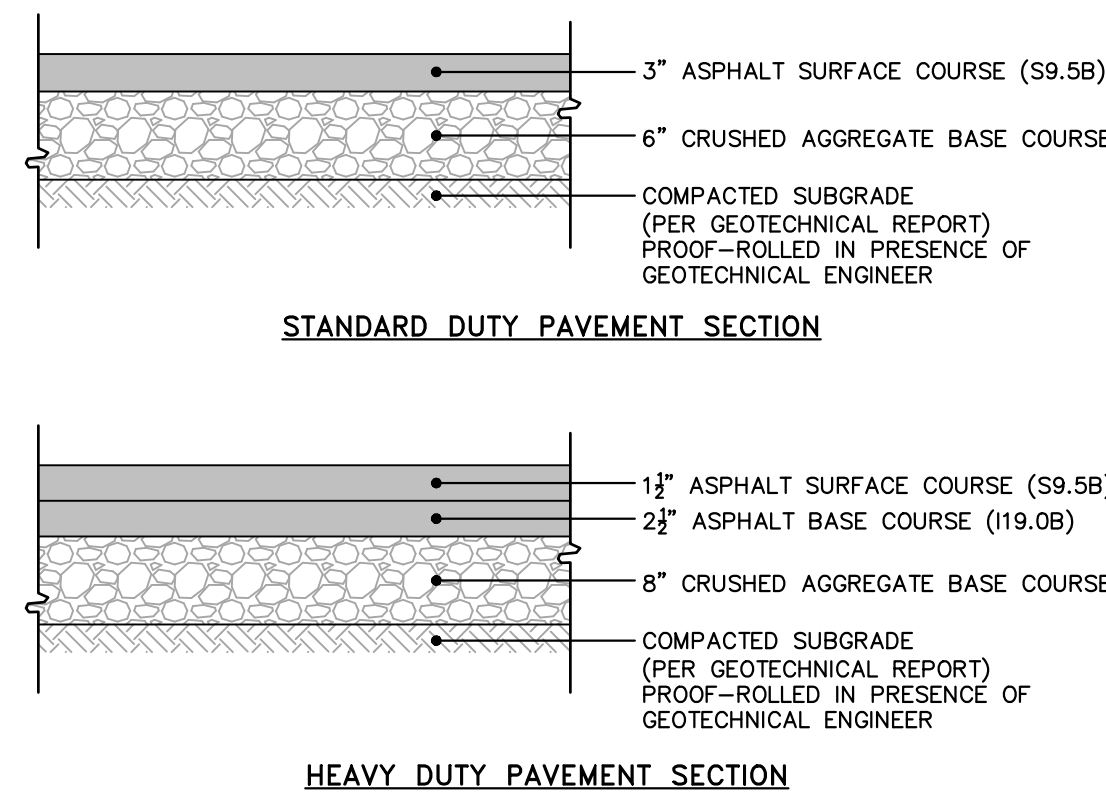
SURVEY NOTE:
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SHEET NUMBER

05.2



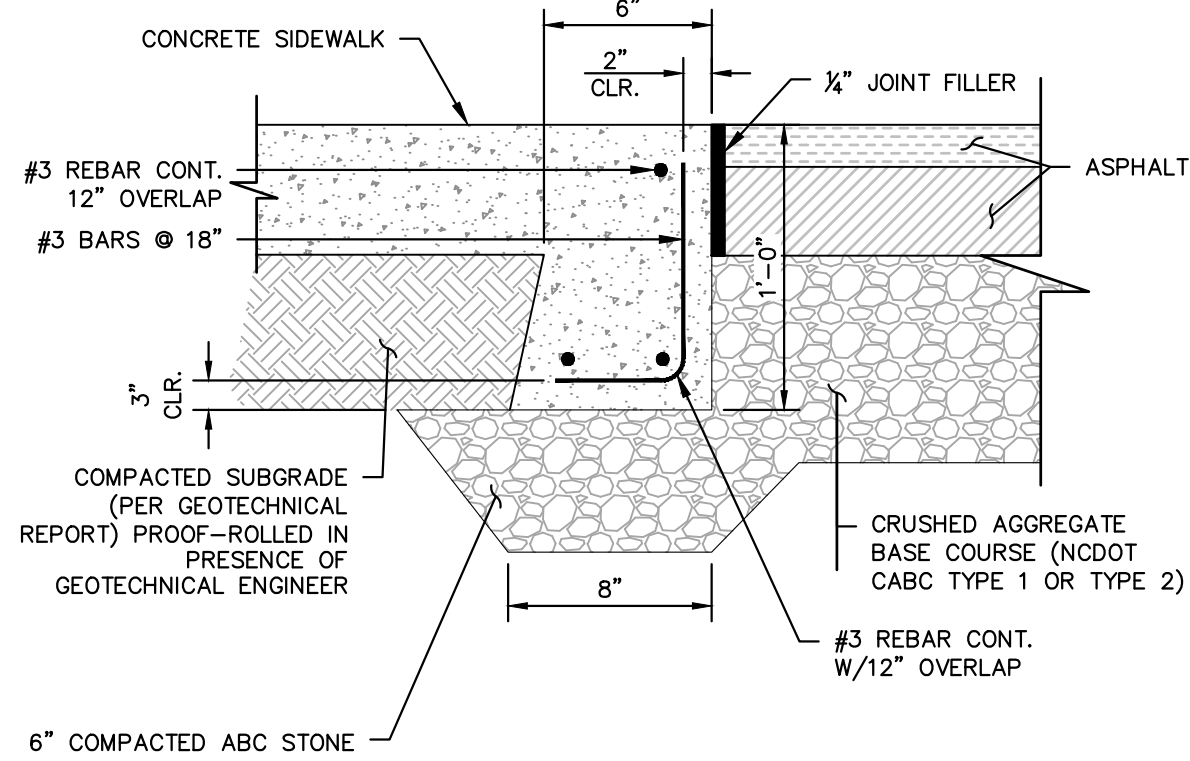
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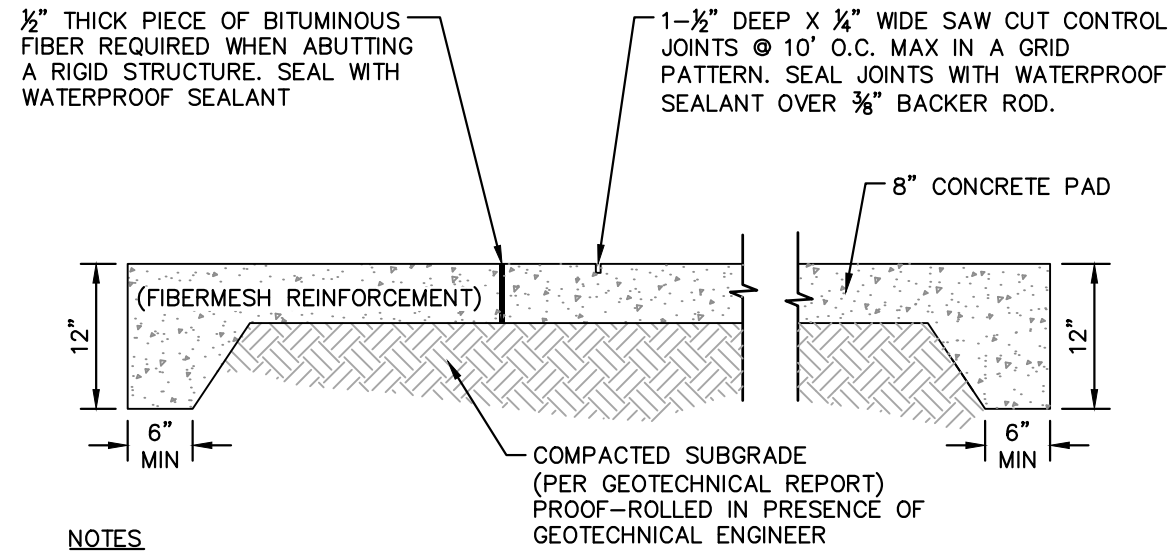
NOTES

- ALL PAVEMENT MATERIALS SHALL BE IN ACCORDANCE WITH THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) STANDARD SPECIFICATIONS.
- PAVEMENT SECTION MUST MEET THE CRITERIA GIVEN IN THE SITE SOIL REPORT.

ASPHALT PAVEMENT SECTIONS
N.T.S. KHA DETAIL NO: 02.101.R02 **XX**



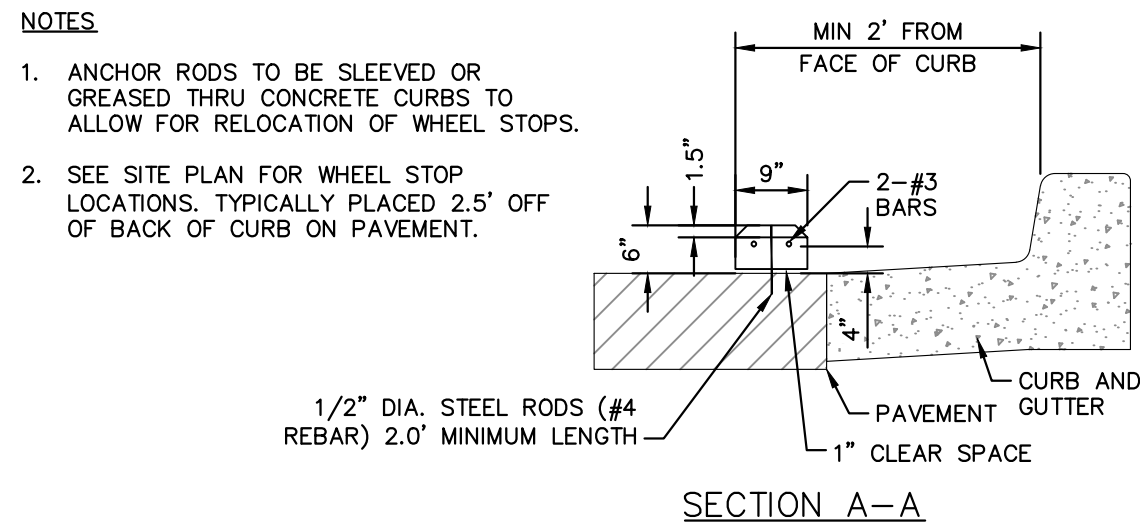
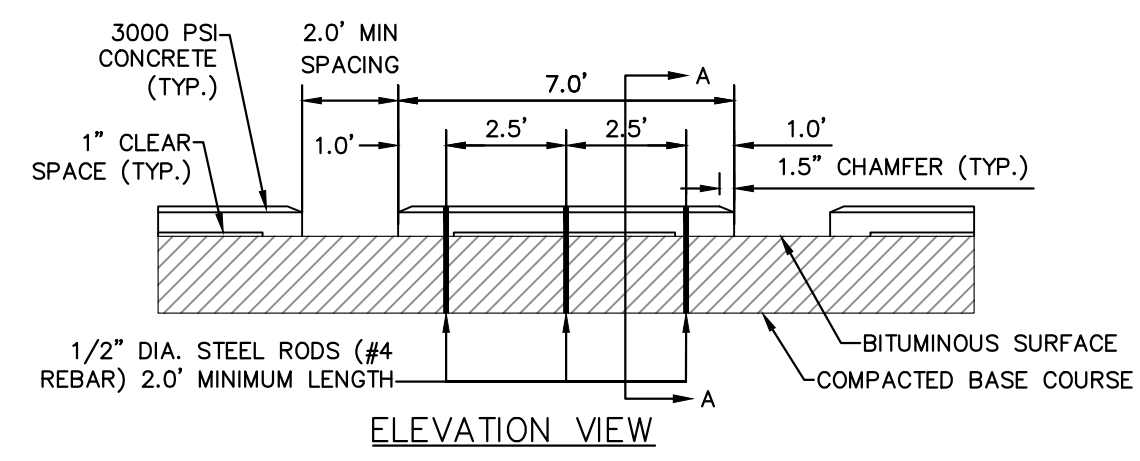
FLUSH CONCRETE SIDEWALK
N.T.S. KHA DETAIL NO: 02.104.R02 **XX**



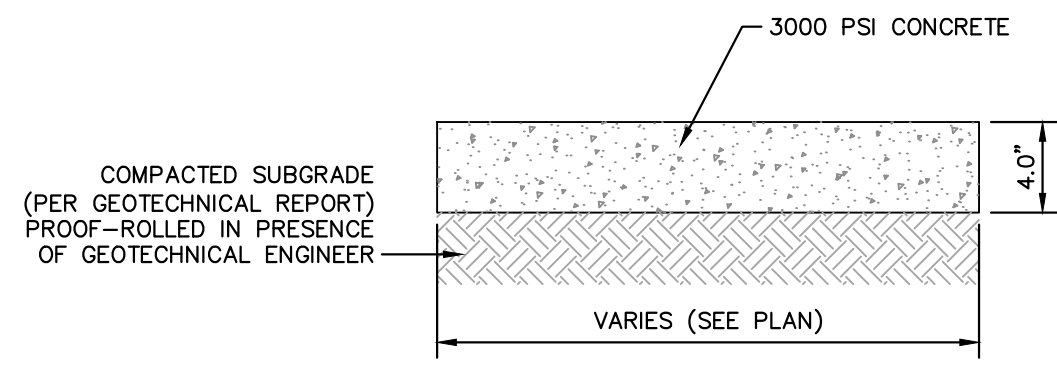
NOTES

- EXPANSION JOINTS AT BUILDINGS OR IMMOVABLE OBJECTS.
- CONTROL JOINTS 12' O.C.
- EXPANSION JOINTS 30' O.C. (MAX)
- CONTROL JOINT SPACING MAY VARY.
- BROOM FINISH

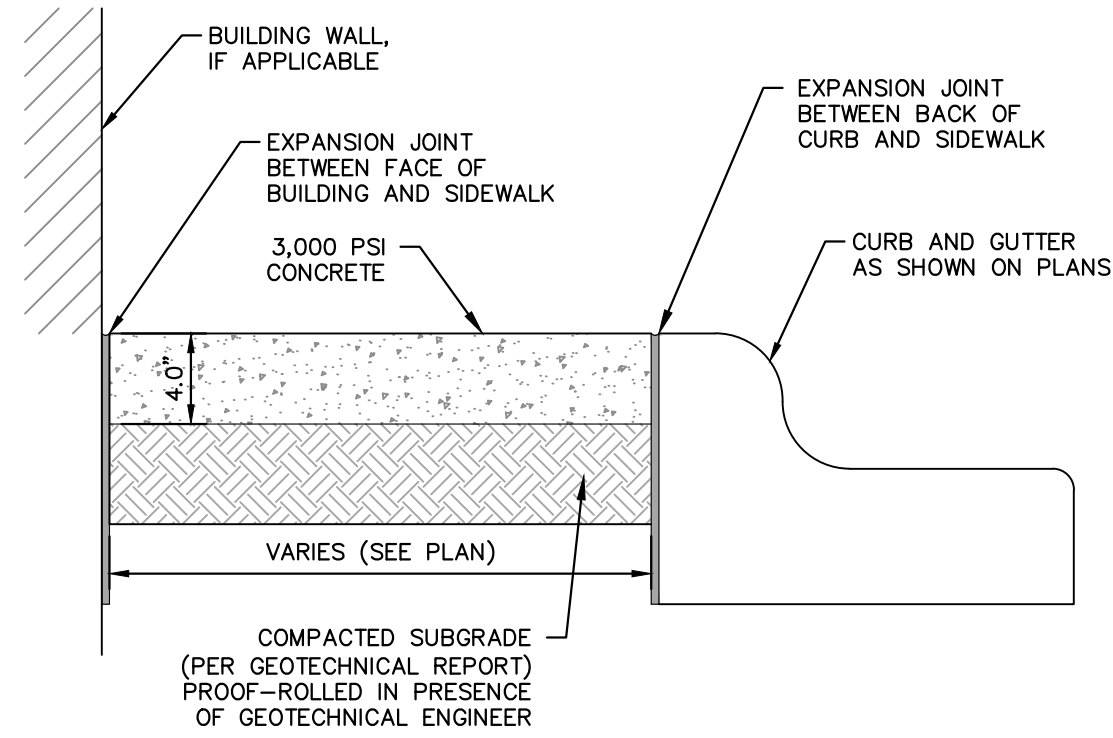
CONCRETE APRON AND DUMPSTER PAD
N.T.S. KHA DETAIL NO: 02.107.R01 **XX**



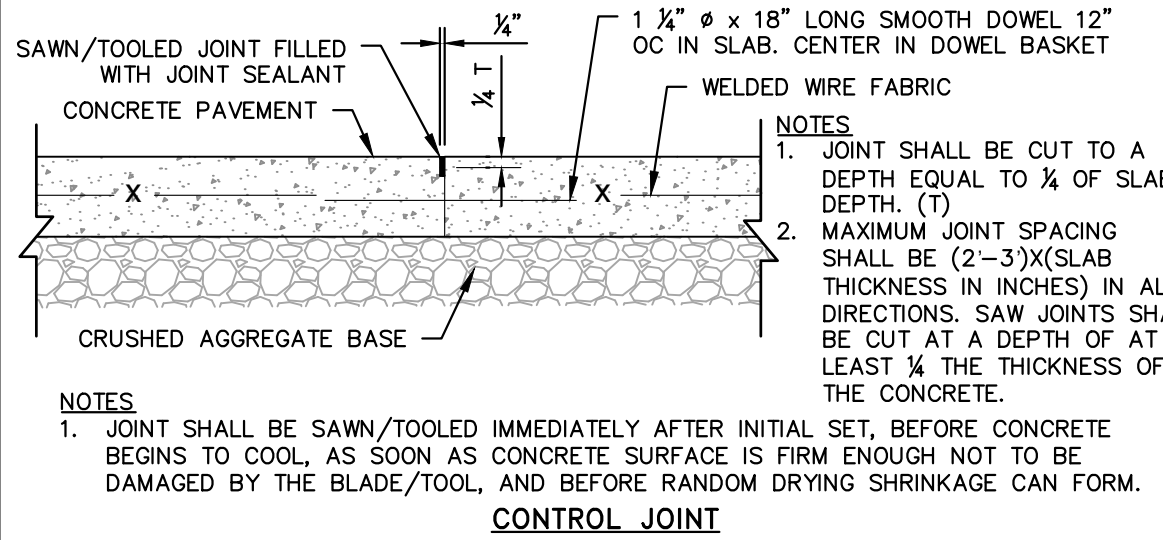
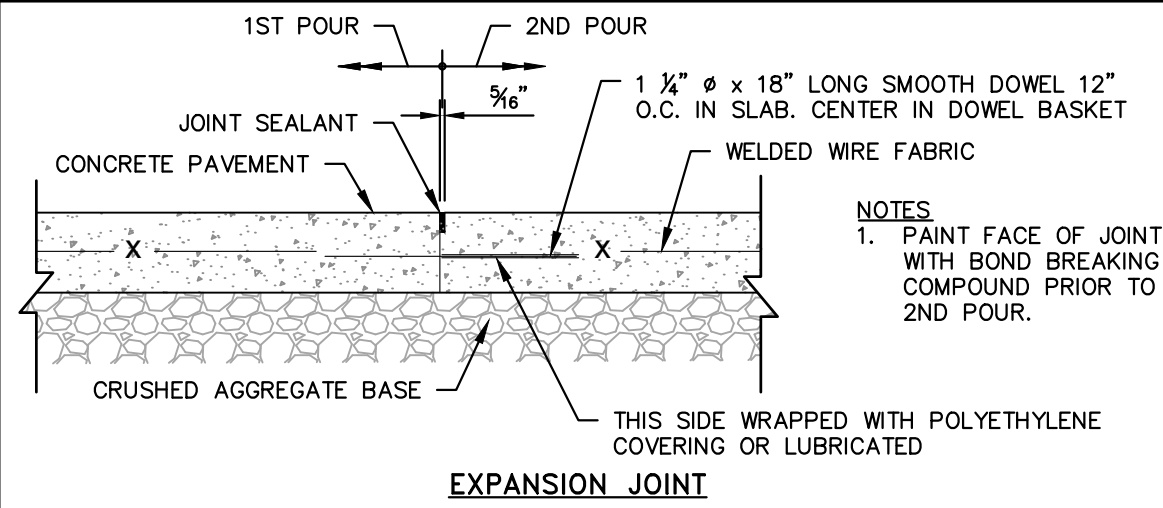
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N.T.S. KHA DETAIL NO: 02.111.R02 **XX**



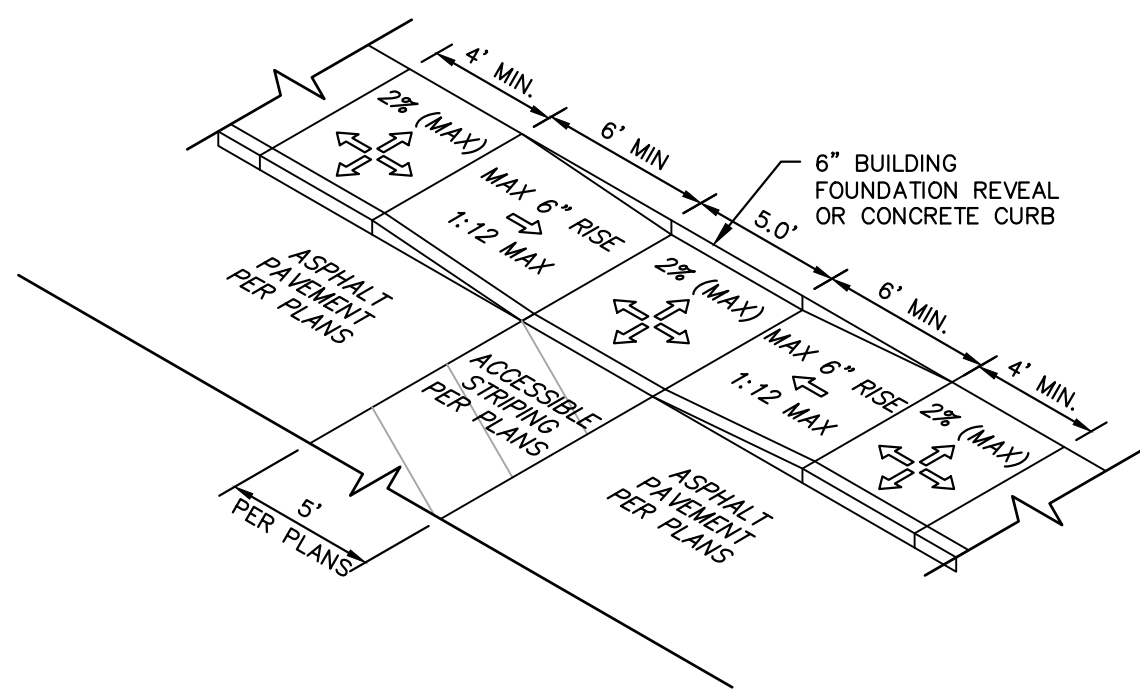
SIDEWALK SECTION
N.T.S. KHA DETAIL NO: 02.102.R01 **XX**



SIDEWALK ADJACENT TO PARKING AREAS
N.T.S. KHA DETAIL NO: 02.105.R02 **XX**



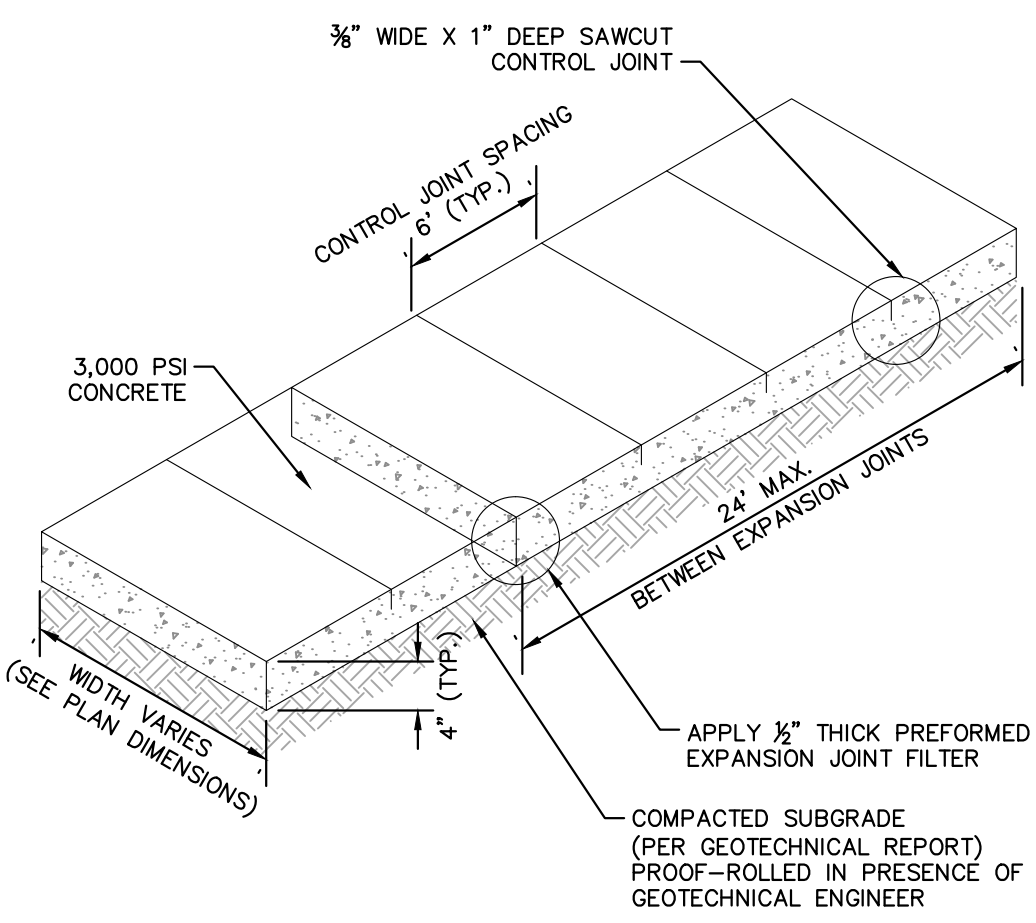
HEAVY DUTY CONTROL AND EXPANSION JOINTS
N.T.S. KHA DETAIL NO: 02.108.R02 **XX**



NOTES

- ALL ACCESSIBLE COMPONENTS CONSTRUCTED AS PART OF THESE PLANS SHALL COMPLY WITH THE LOCAL, STATE, AND FEDERAL REGULATIONS WHICHEVER ARE MORE STRINGENT.
- CURB RAMPS SHALL BE CONCRETE WITH STRENGTH OF 3,000 PSI.
- INSTALL 1/4" EXPANSION JOINT FILLER MATERIAL BETWEEN A NEW CURB RAMP AND THE EXISTING SIDEWALKS.
- WATER PONDING WITHIN THE CURB RAMP LIMITS IS NOT ALLOWED.
- NO GRADE BREAK IS ALLOWED ALONG THE RAMP SURFACE.
- CROSS SLOPE OF THE CURB RAMP SURFACE SHALL BE LESS THAN 2%.

DEPRESSED CURB RAMP
N.T.S. KHA DETAIL NO: 02.109.R02 **XX**



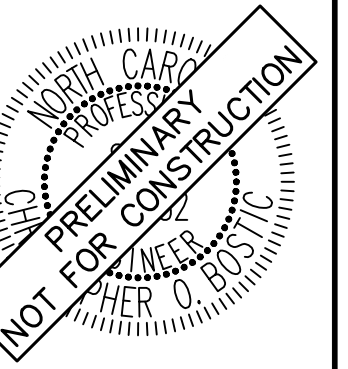
SIDEWALK
N.T.S. KHA DETAIL NO: 02.103.R02 **02**

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NO.	REVISIONS	DATE	BY
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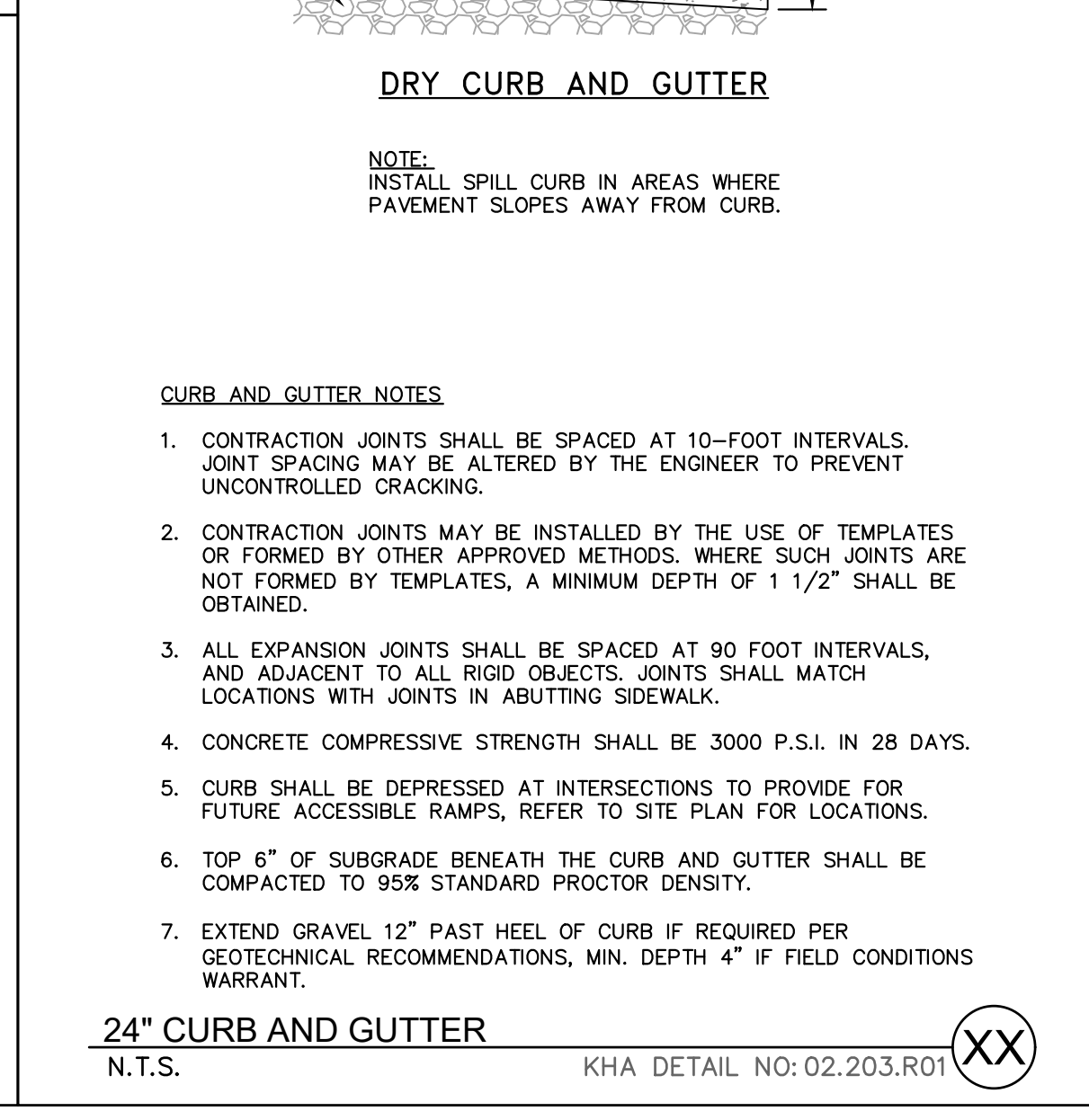
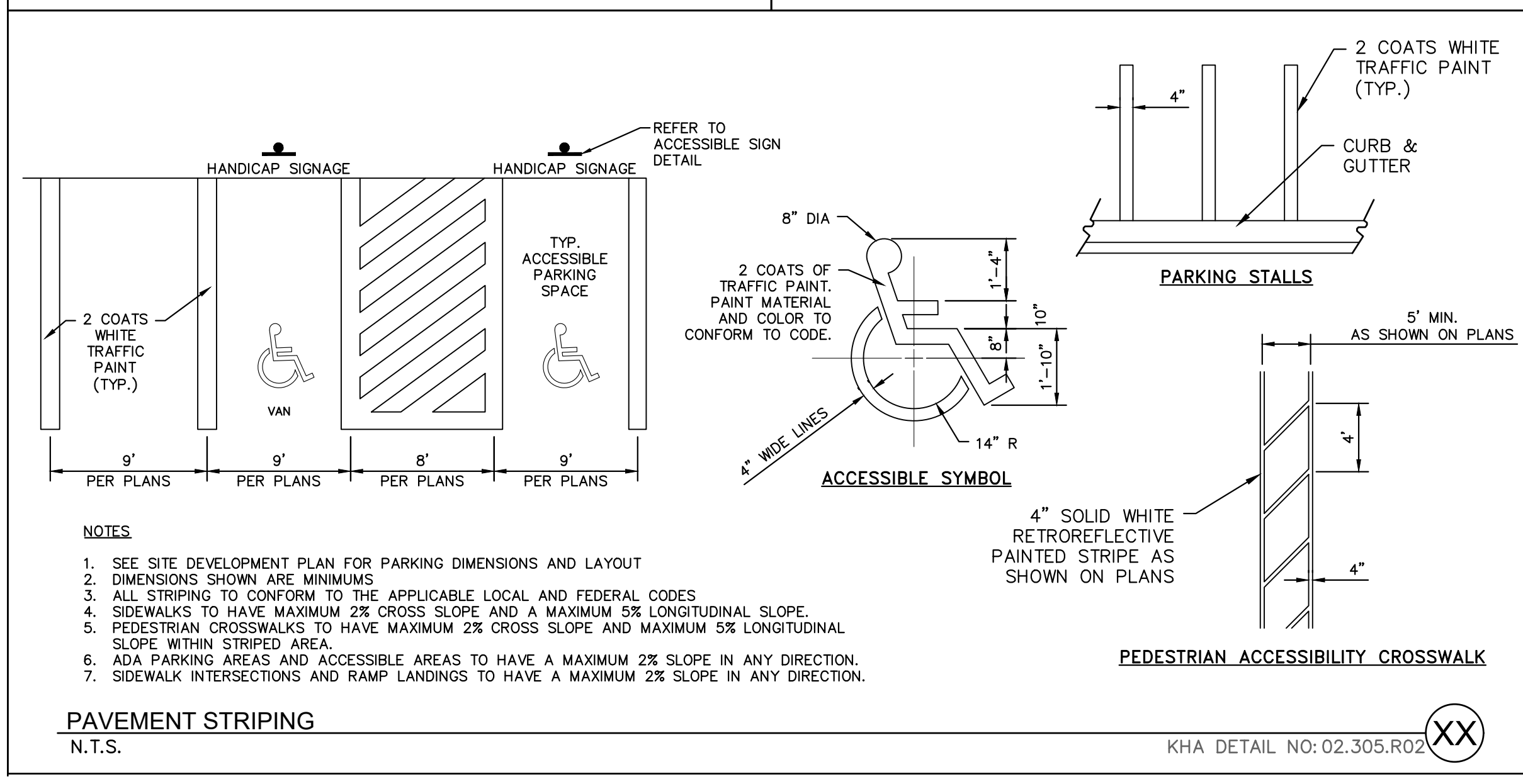
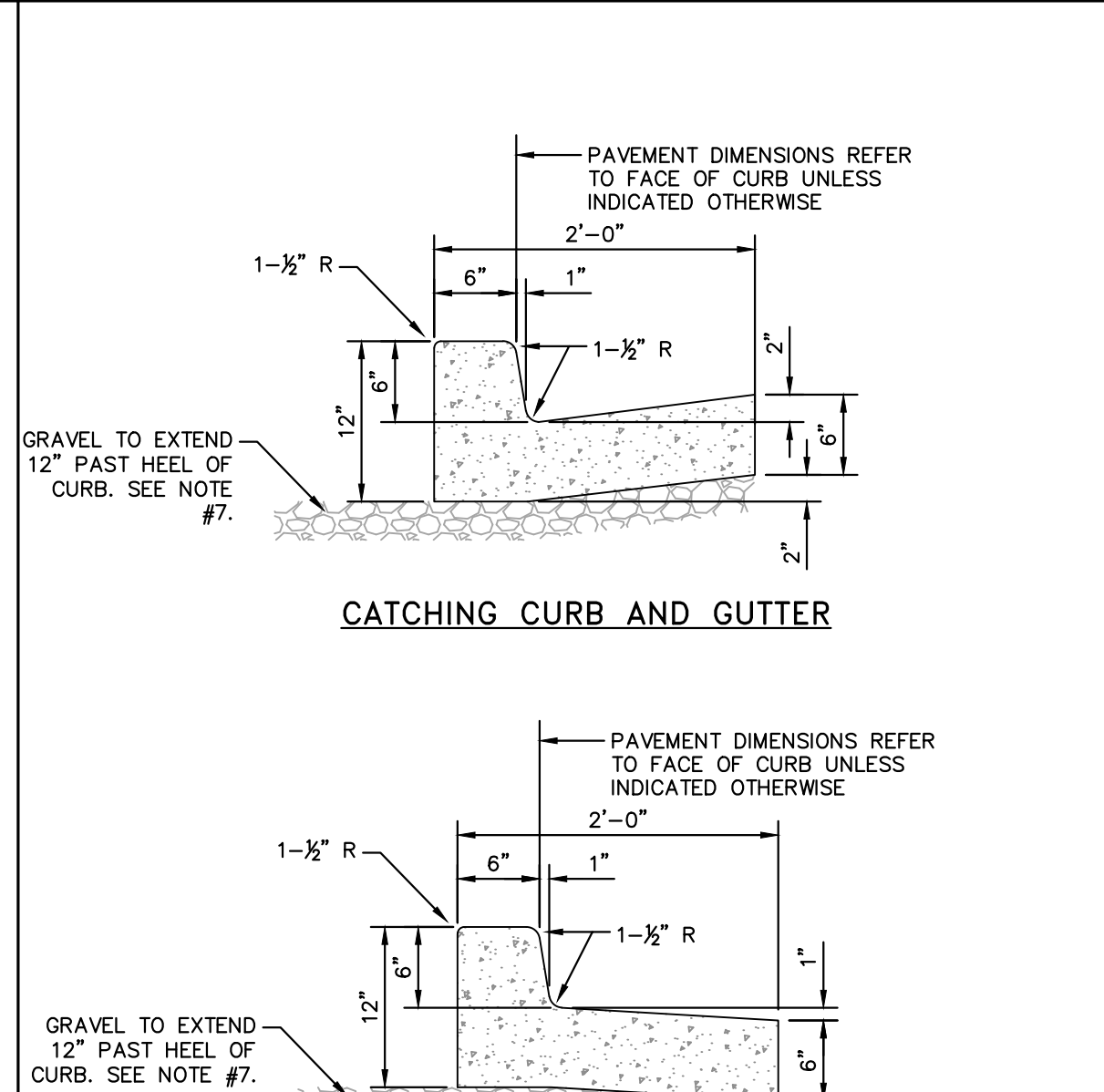
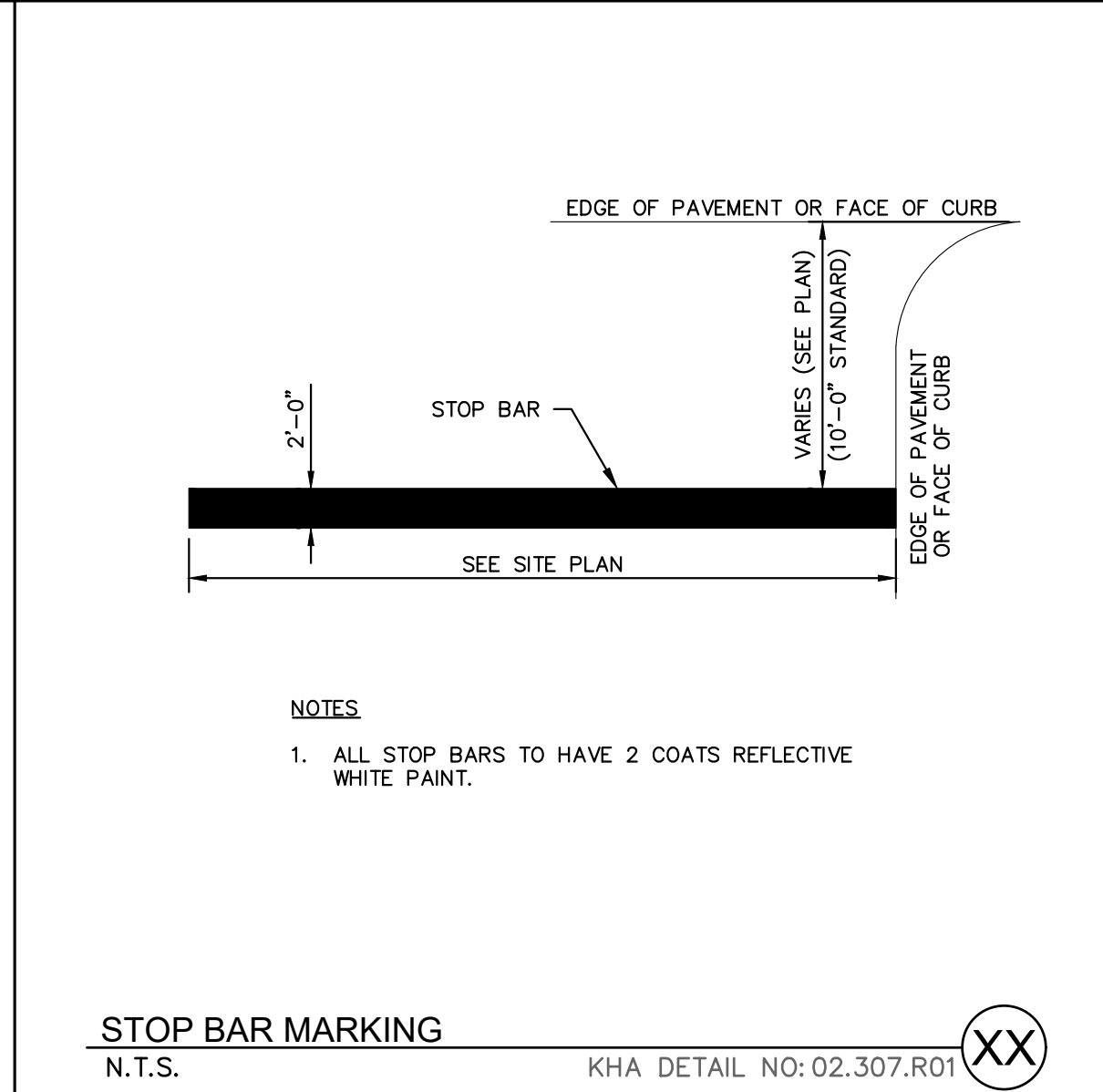
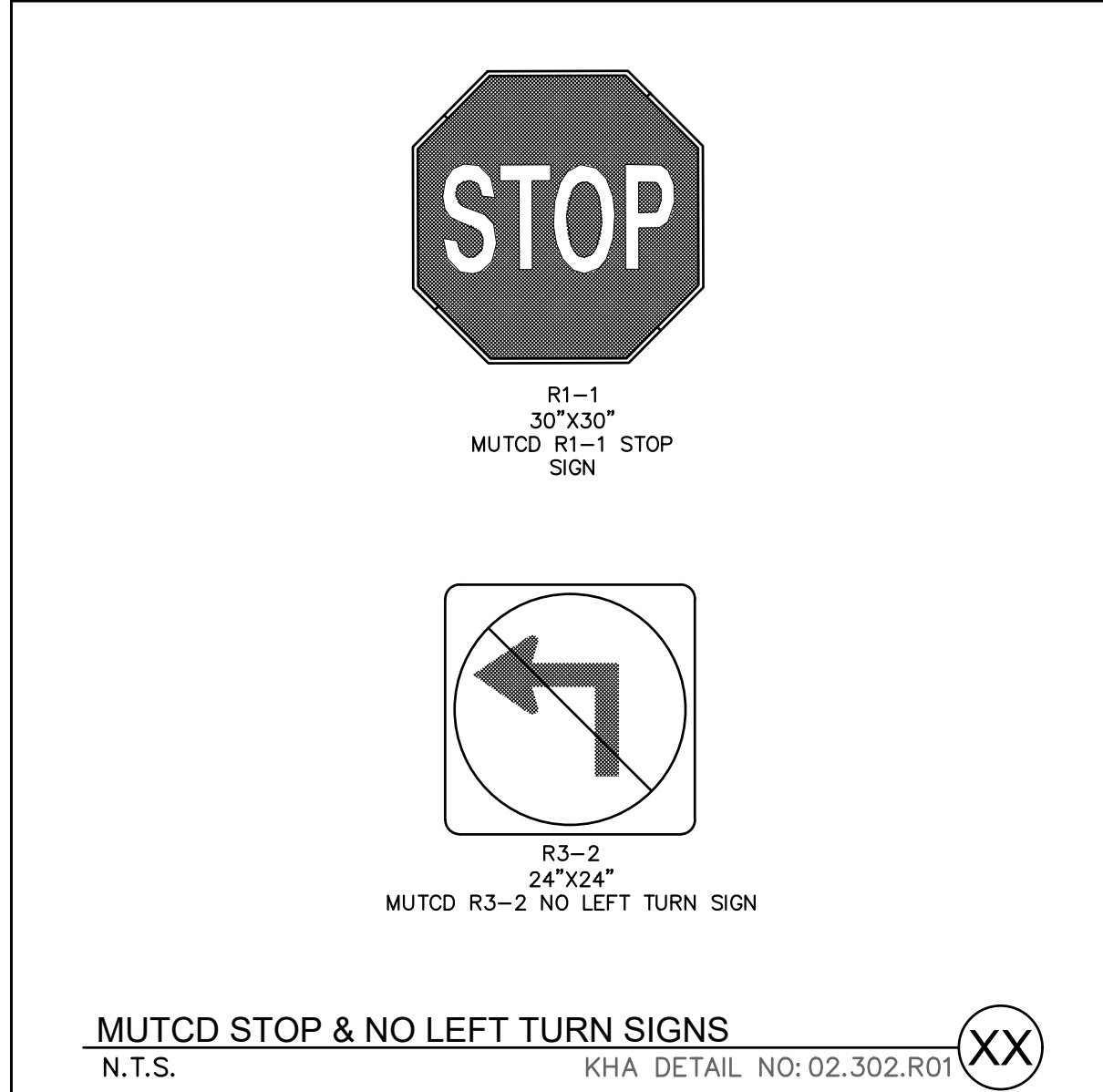
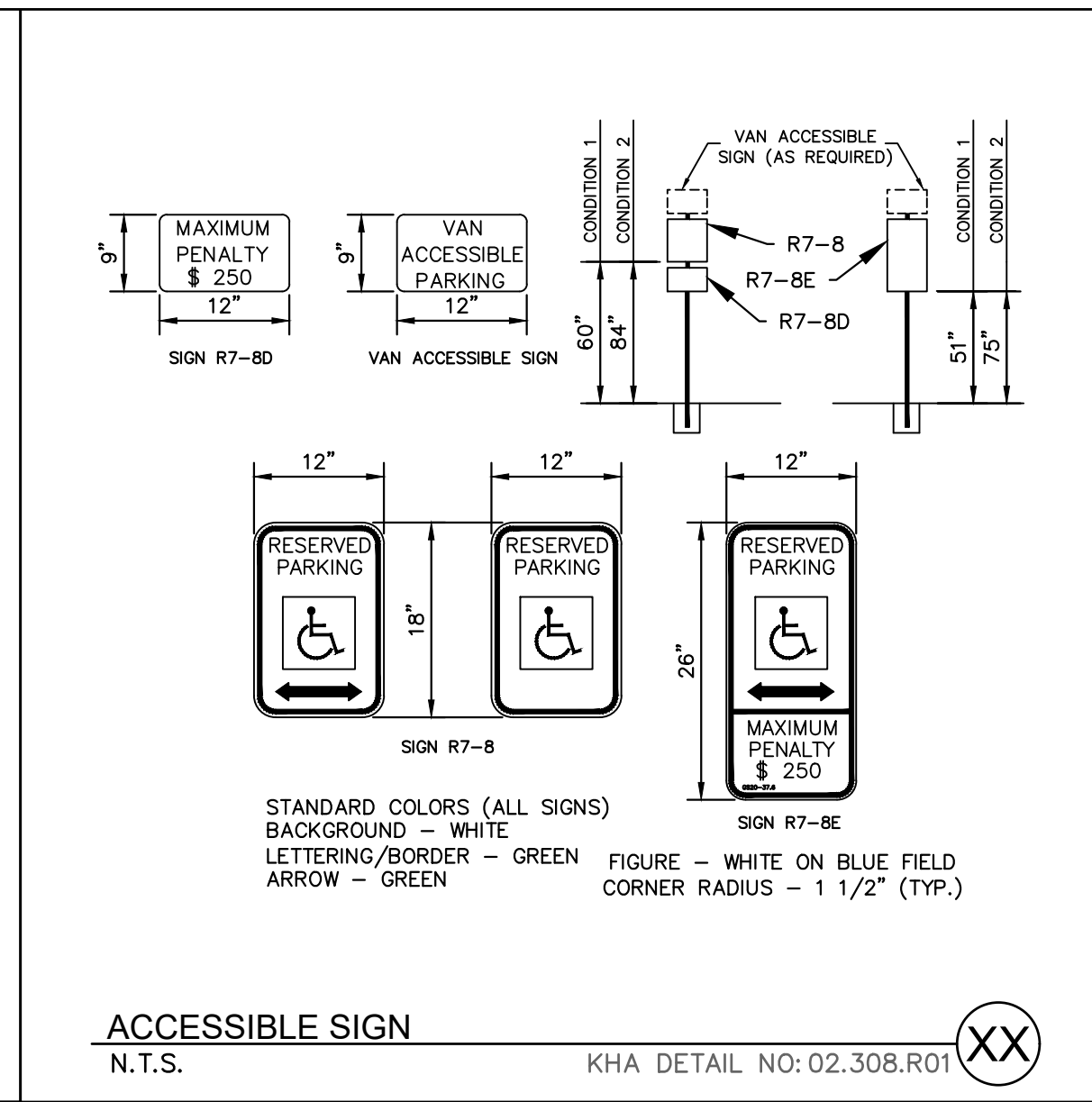
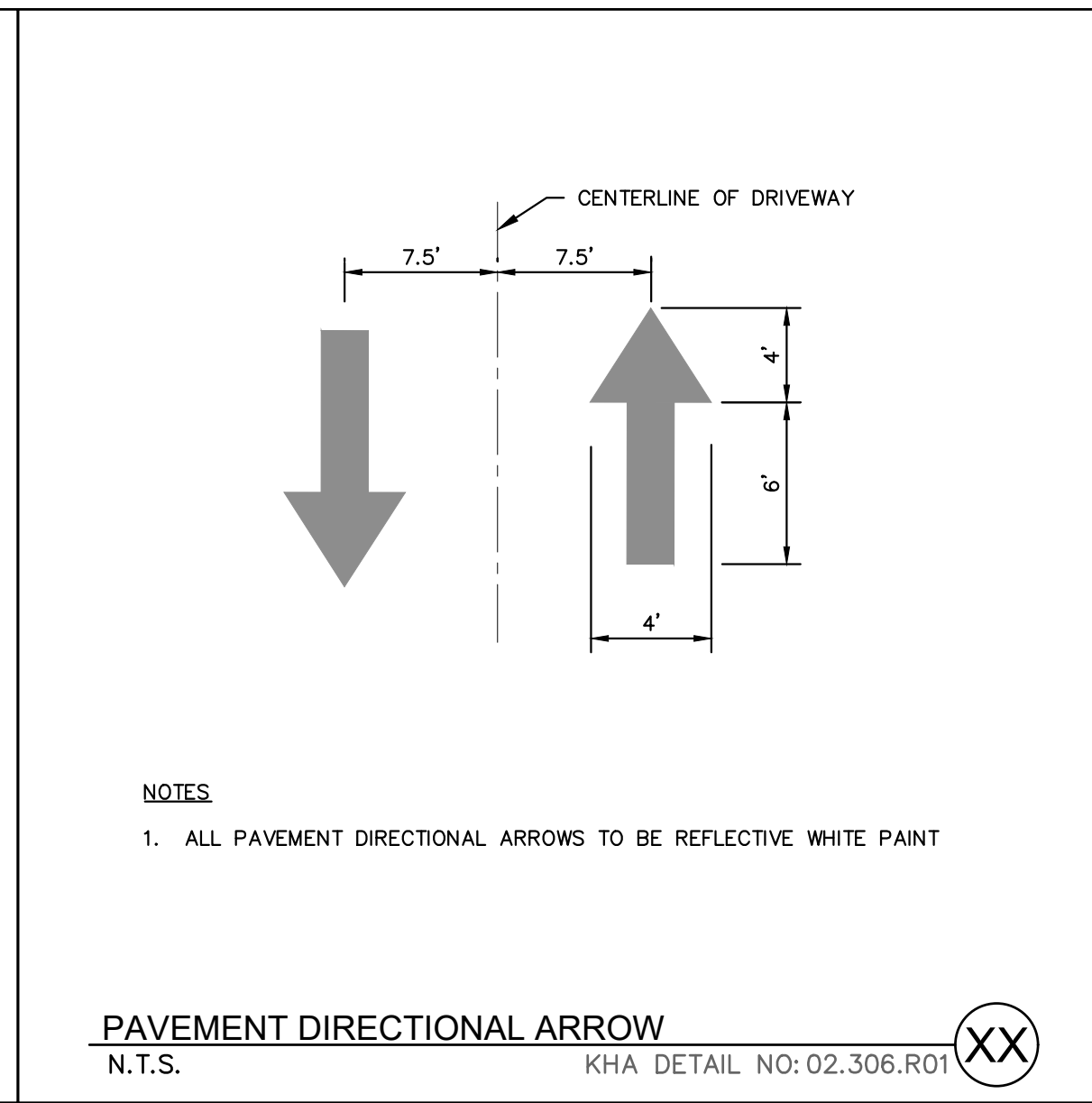
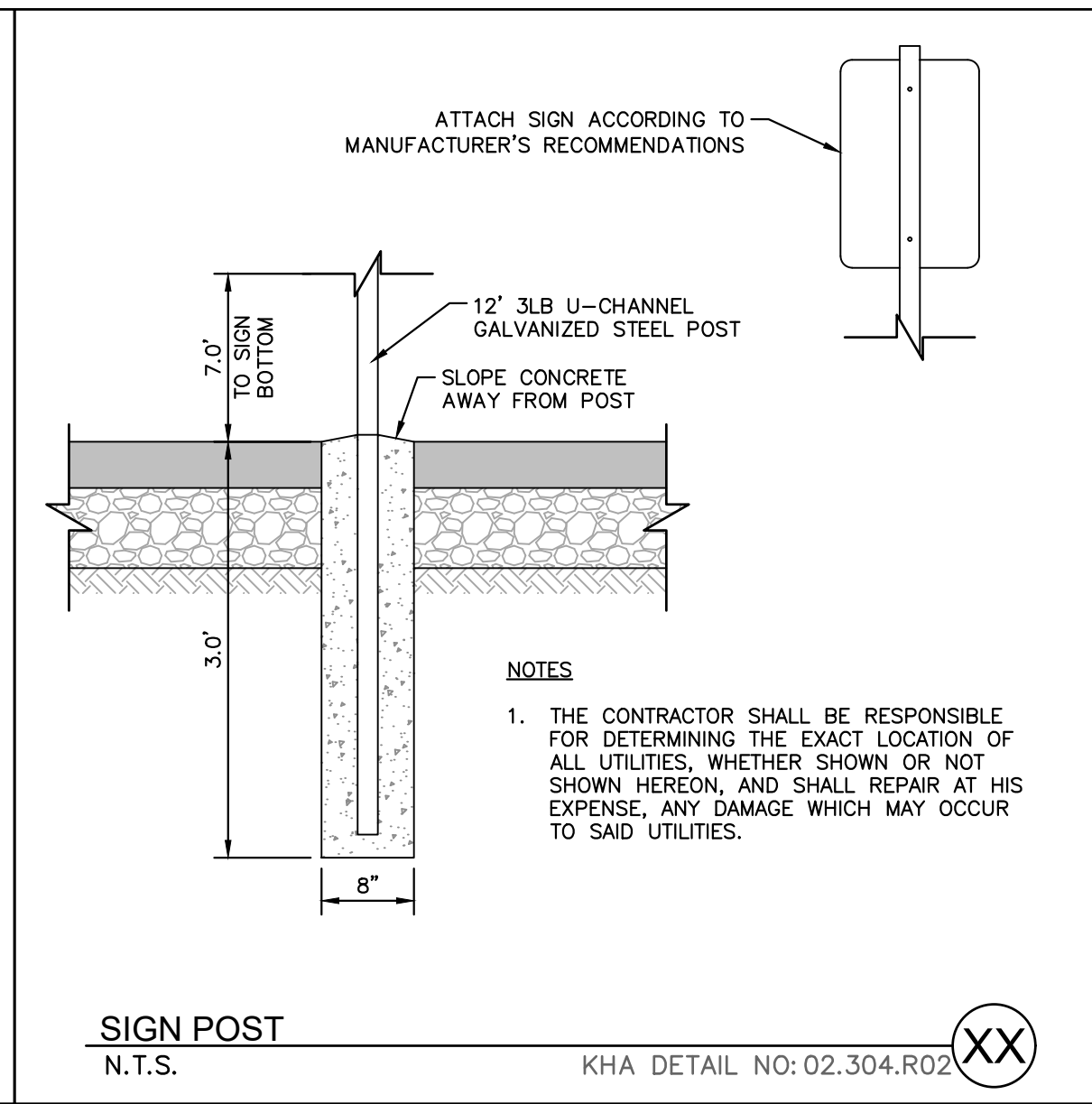
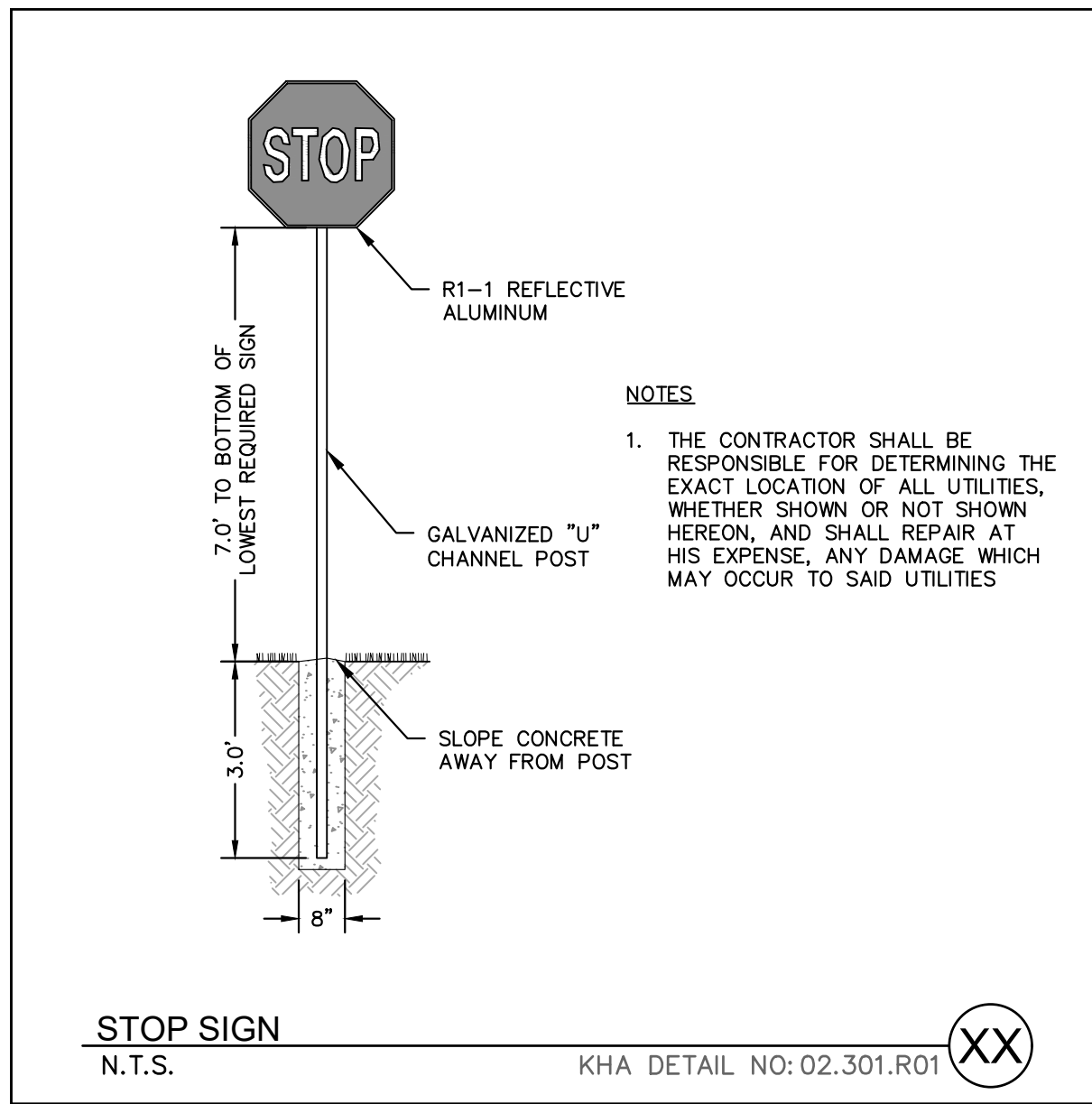
KHA PROJECT	013031004
DATE	09/29/2023
SCALE	AS SHOWN
DESIGNED BY	JAA
DRAWN BY	JAA
CHECKED BY	COE

SITE DETAILS

THE LEARNING CENTER ROLESVILLE
PREPARED FOR
ROLESVILLE, LLC.
TOWN OF ROLESVILLE
NORTH CAROLINA

SHEET NUMBER
C8.0

Plotted By: Alexander, Jamal Sheet Set: THE LEARNING CENTER ROLESVILLE, Layout: C8.1 SITE DETAILS, October 02, 2023, 02:43:00pm, K:\RAL_LDEV\013031004_Rolesville_Layouts\Center\10_CAD Files\PlanSheets\C8.1 SITE DETAILS.dwg
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NO.	REVISIONS	DATE	BY
1			
2			
3			
4			
5			
6			
7			

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NOT FOR CONSTRUCTION
 NORTH CAROLINA
 PRELIMINARY
 SHEET 02.305

KHA PROJECT	013031004
DATE	09/29/2023
SCALE	AS SHOWN
DESIGNED BY	JAA
DRAWN BY	JAA
CHECKED BY	COB

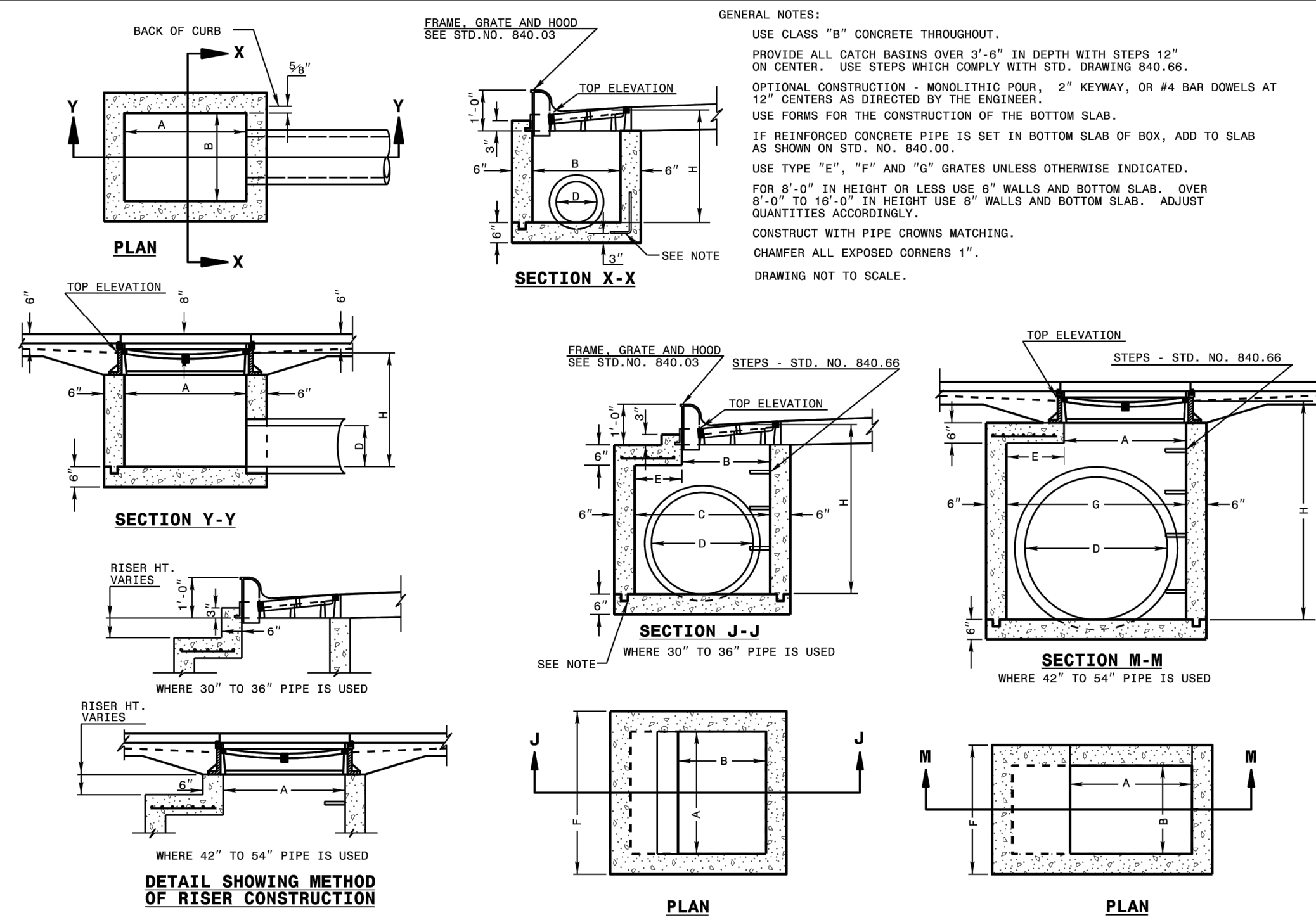
SITE DETAILS

THE LEARNING CENTER ROLESVILLE
 PREPARED FOR
ROLESVILLE, LLC.
 TOWN OF ROLESVILLE
 NORTH CAROLINA

SHEET NUMBER
C8.1



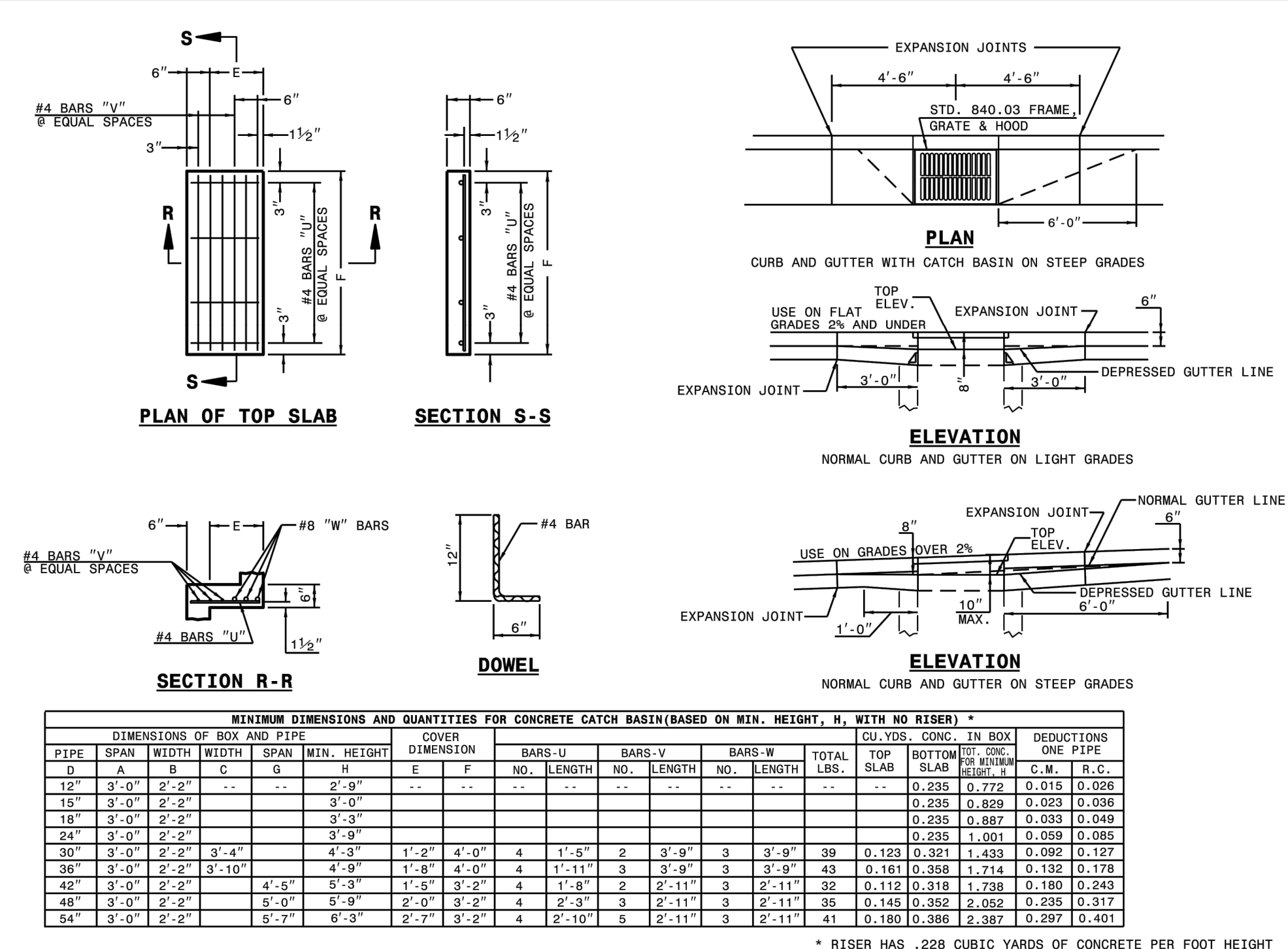
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STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
CONCRETE CATCH BASIN
 12" THRU 54" PIPE

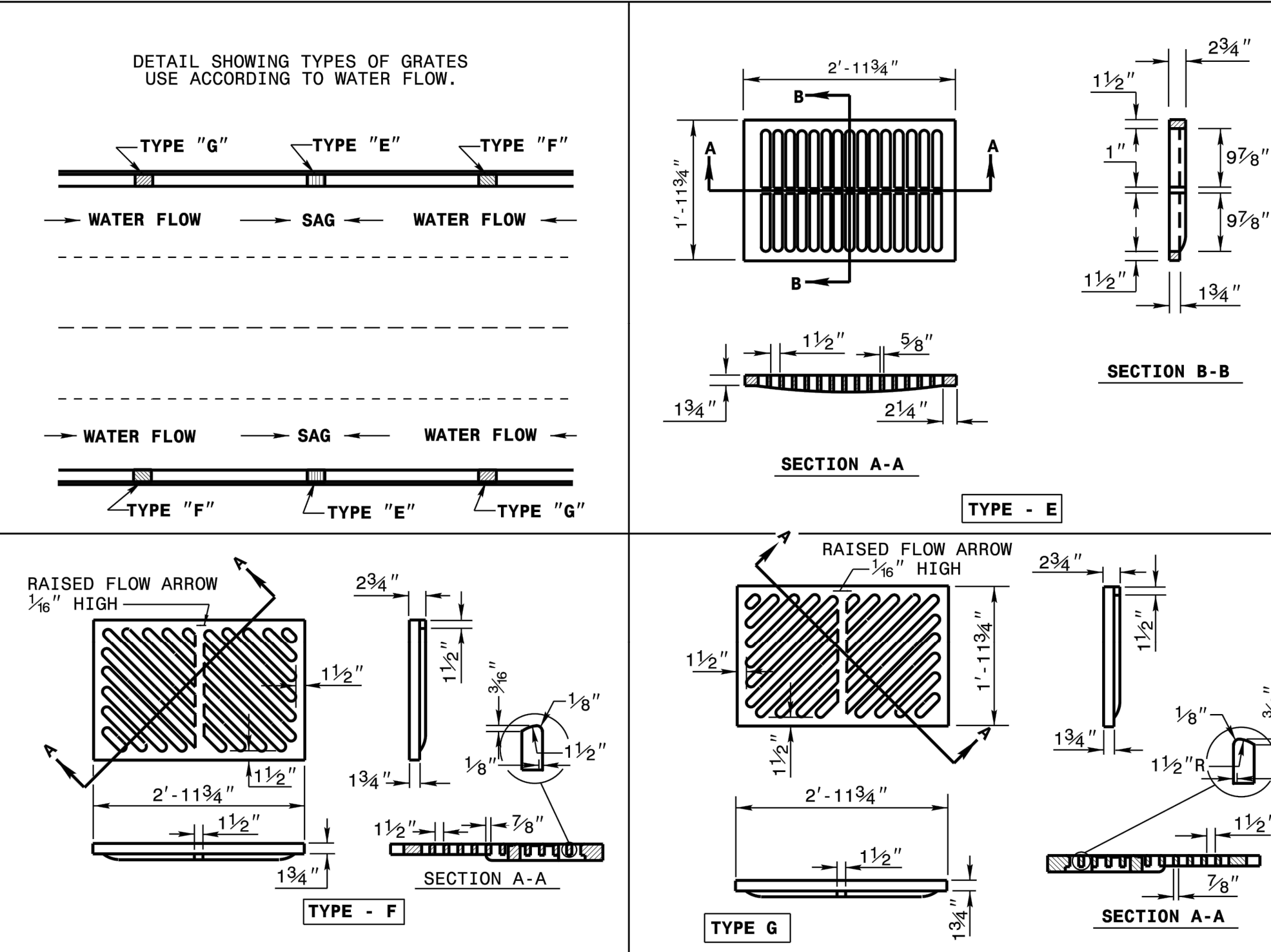
SHEET 1 OF 2
840.02



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

ROADWAY STANDARD DRAWING FOR
CONCRETE CATCH BASIN
 12" THRU 54" PIPE

SHEET 2 OF 2
840.02



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 2 OF 2
840.03

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THE LEARNING CENTER ROLESVILLE
 PREPARED FOR
ROLESVILLE, LLC.
 TOWN OF ROLESVILLE NORTH CAROLINA

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STORM DETAILS

KHA PROJECT 013031004
 DATE 09/29/2023
 SCALE AS SHOWN
 DESIGNED BY JAA
 DRAWN BY JAA
 CHECKED BY COE

NO PRELIMINARY CONSTRUCTION

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

ROADWAY STANDARD DRAWING FOR
CONCRETE CATCH BASIN
 12" THRU 54" PIPE

SHEET 2 OF 2
840.02

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

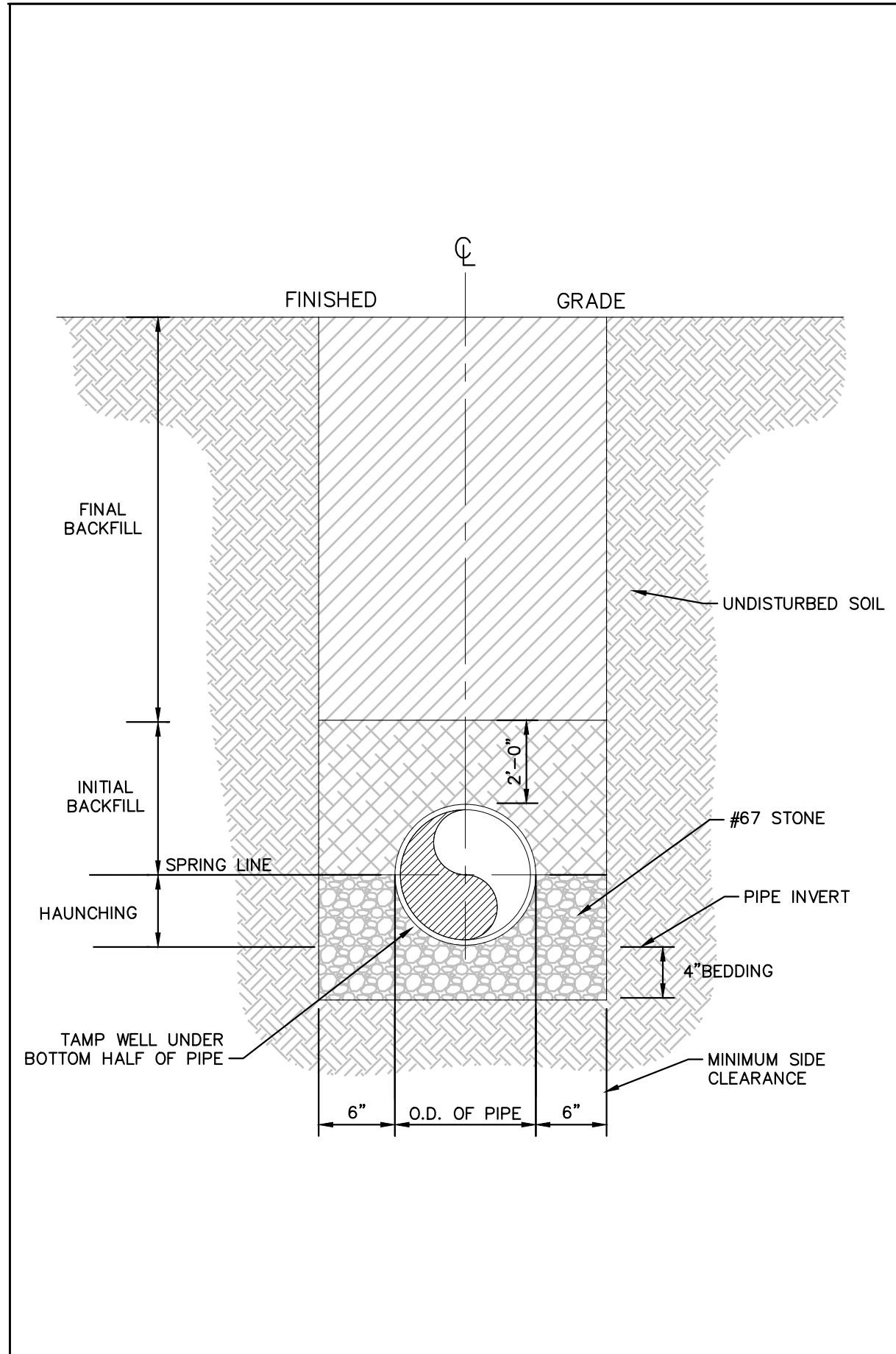
ROADWAY STANDARD DRAWING FOR
CONCRETE CATCH BASIN
 12" THRU 54" PIPE

SHEET 2 OF 2
840.02

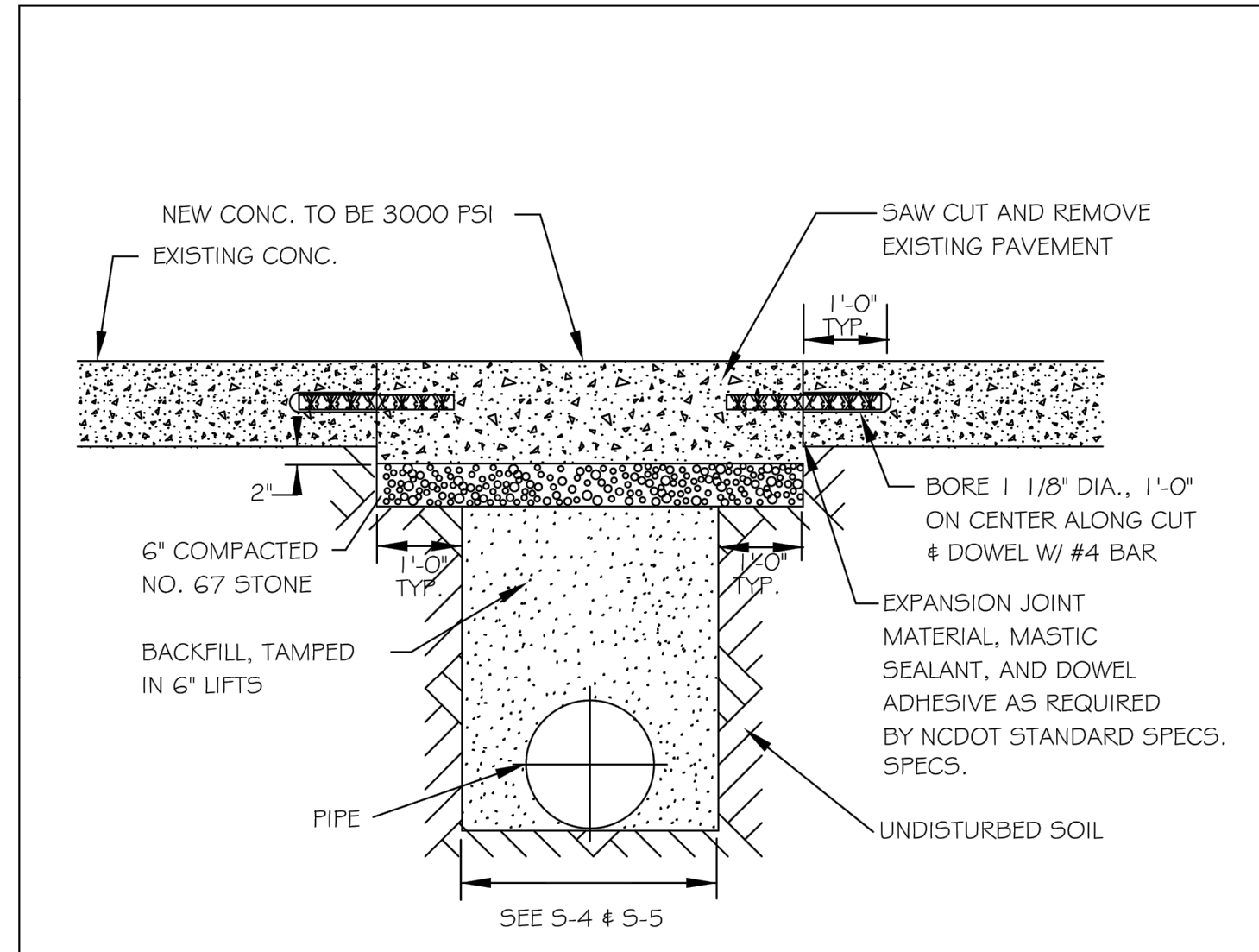
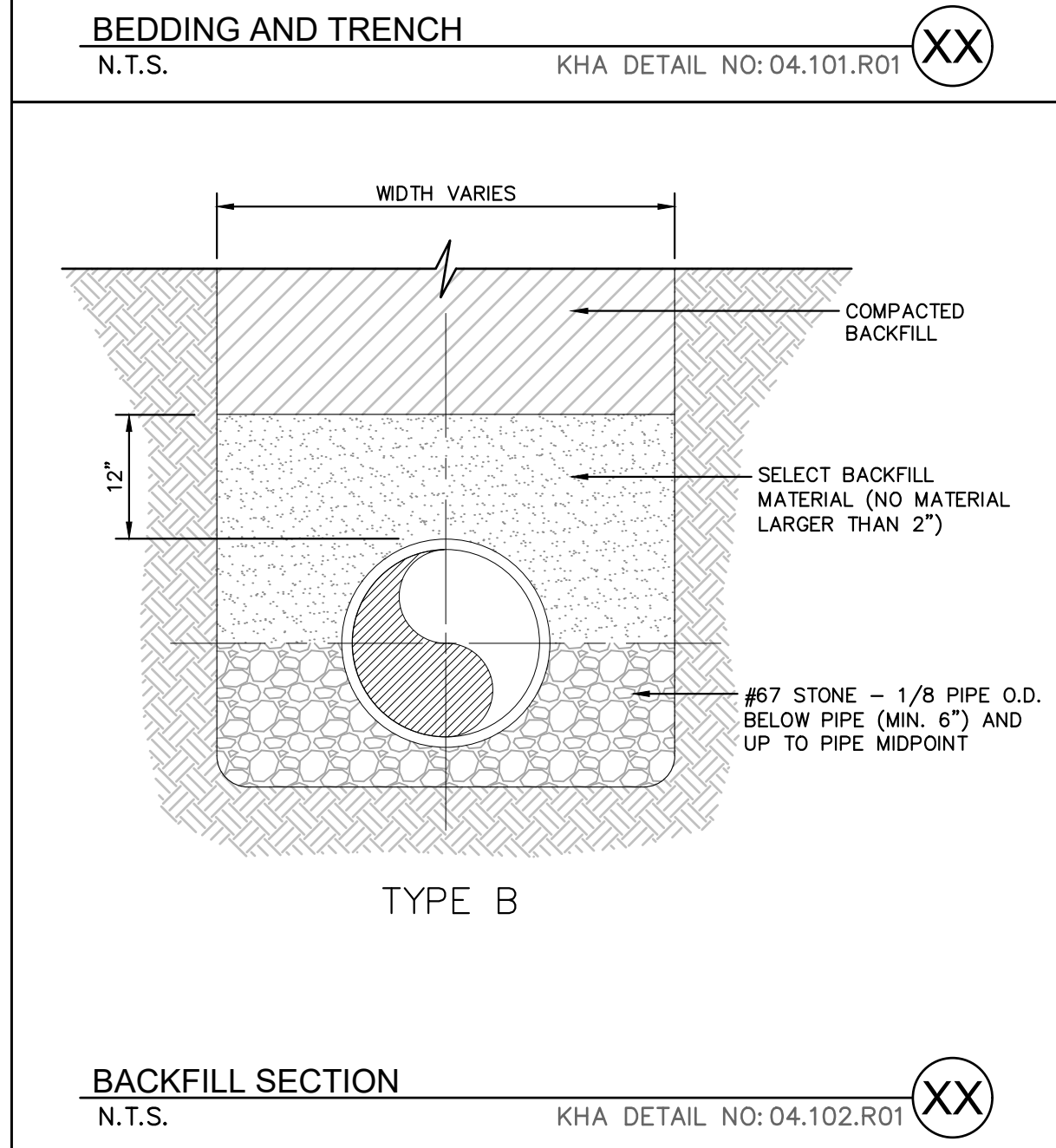
NO. REVISIONS DATE BY

SHEET NUMBER
C9.1

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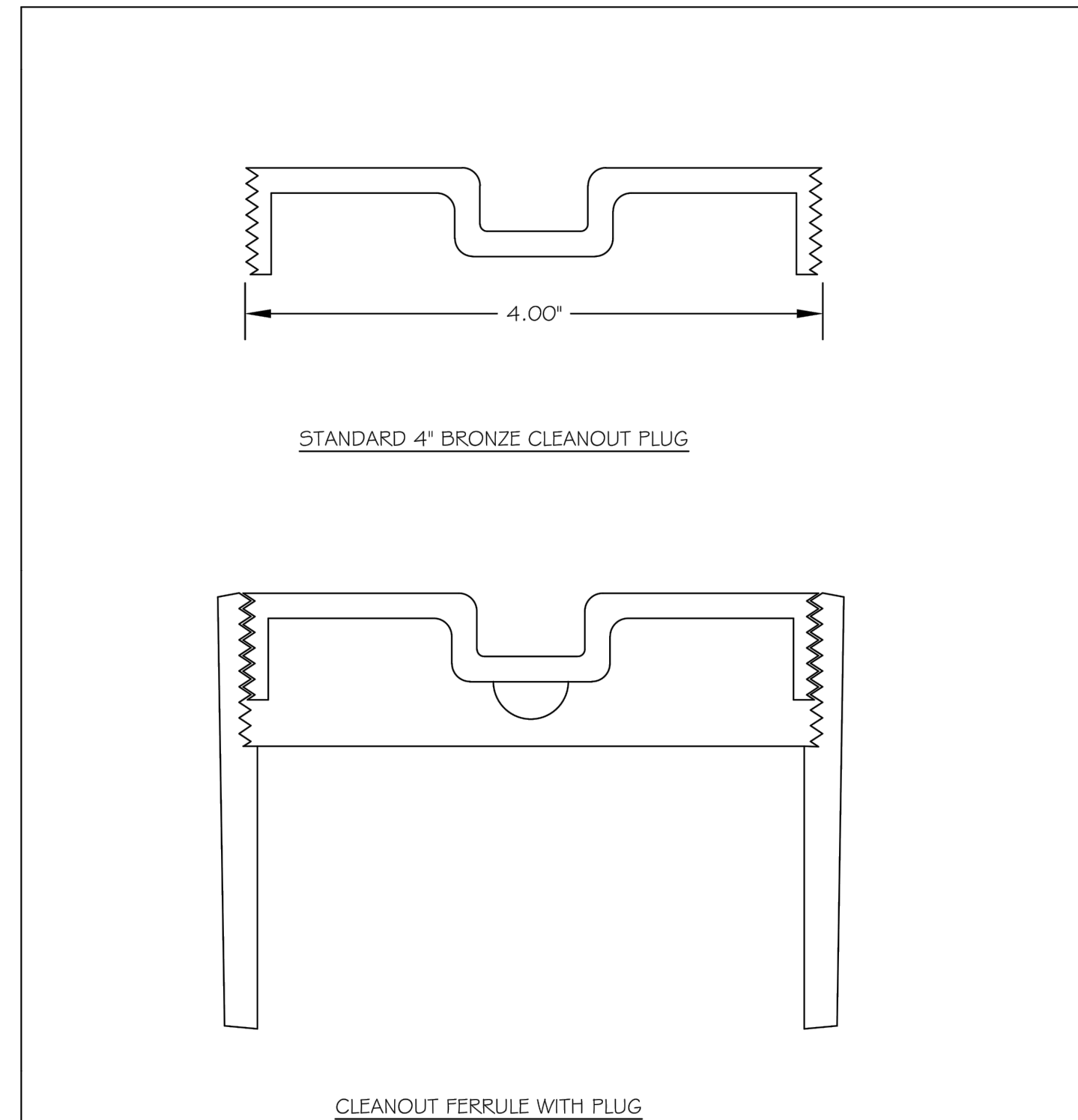


- NOTES:**
- FOR TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
 - NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN INITIAL BACKFILL.
 - ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL.
 - BACKFILL SHALL BE TAMPED IN 6" LIFTS IN TRAFFIC AREAS, 12" IN NON-TRAFFIC AREAS.



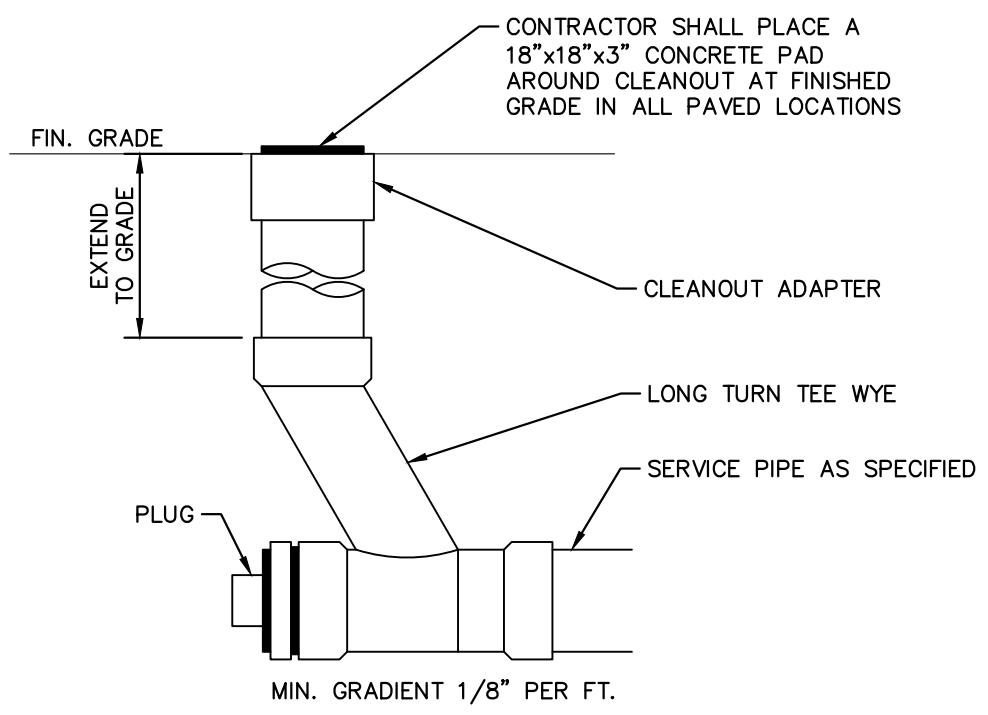
- NOTES:**
- See City of Raleigh standards for trenches and pipe bedding (5-4 & 5-5) for additional details.
 - Pavement cuts over 5'-0" in width shall be reinforced to N.C.D.O.T. standards.
 - Pavement cuts shall be made with an appropriate saw cut machine.
 - Pavement cuts within NCDOT ROW shall conform to the approved on site encroachment permit.

CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
STANDARD CONCRETE PAVEMENT PATCH DETAIL				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
5-2	D.W.C.	6-23-99	A.B.B.	4-19-04
	RRH	3-30-00	J.P.S	0-8-10



STYLES ACCEPTED:
 INVERTED NUT
 RAISED NUT

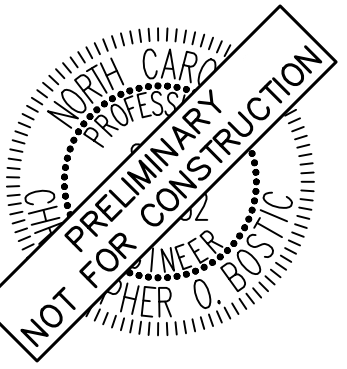
CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
4" CLEANOUT PLUG				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
5-34	D.W.C.	3-1-87	RRH	3-30-00
		3-27-98		



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NO.	REVISIONS	DATE	BY
7			
6			
5			
4			
3			
2			
1			

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KHA PROJECT	013031004
DATE	09/29/2023
SCALE	AS SHOWN
DESIGNED BY	JAA
DRAWN BY	JAA
CHECKED BY	COB

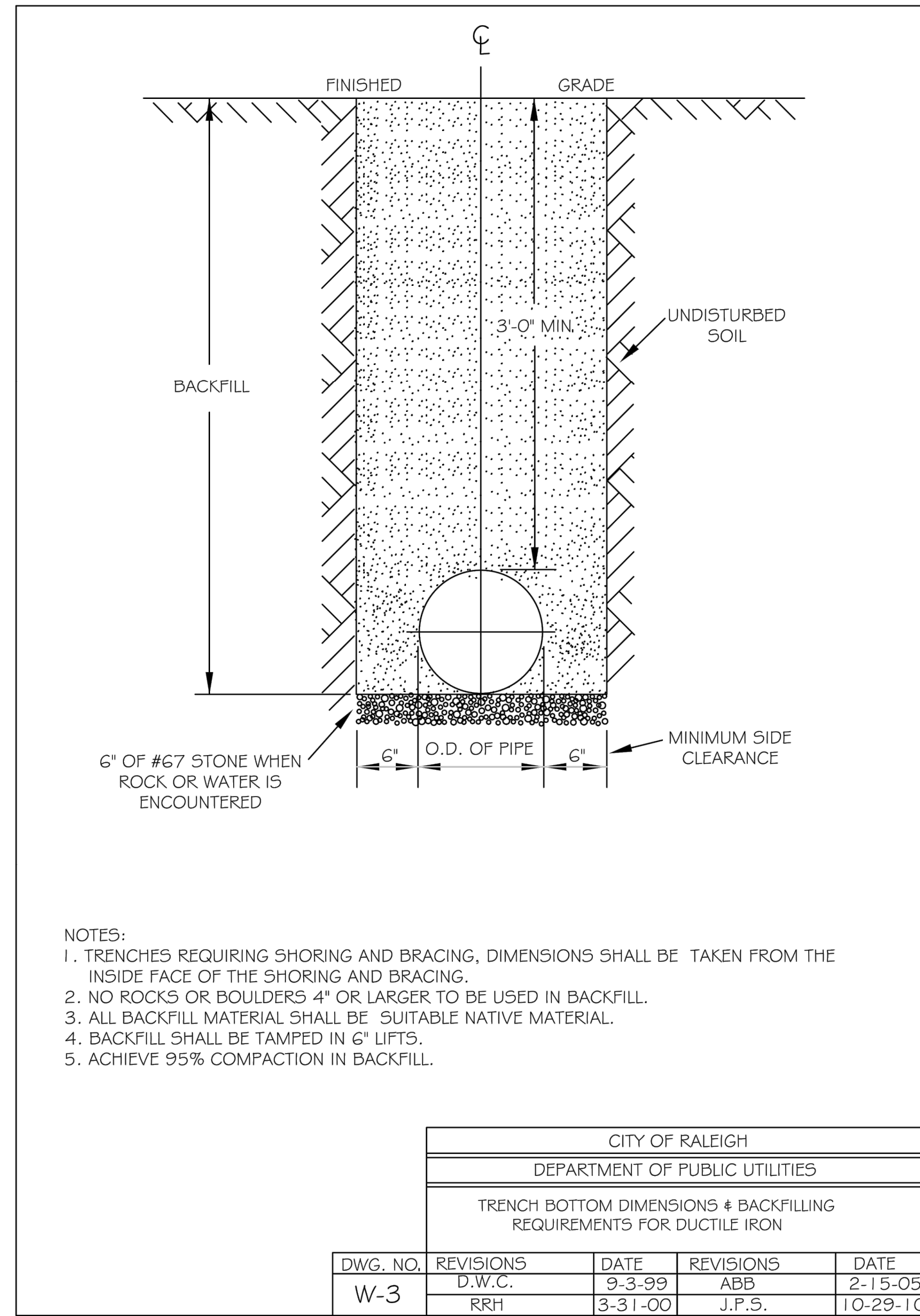
SANITARY SEWER DETAILS

THE LEARNING CENTER ROLESVILLE
 PREPARED FOR
ROLESVILLE, LLC.
 TOWN OF ROLESVILLE NORTH CAROLINA

SHEET NUMBER
C10.0

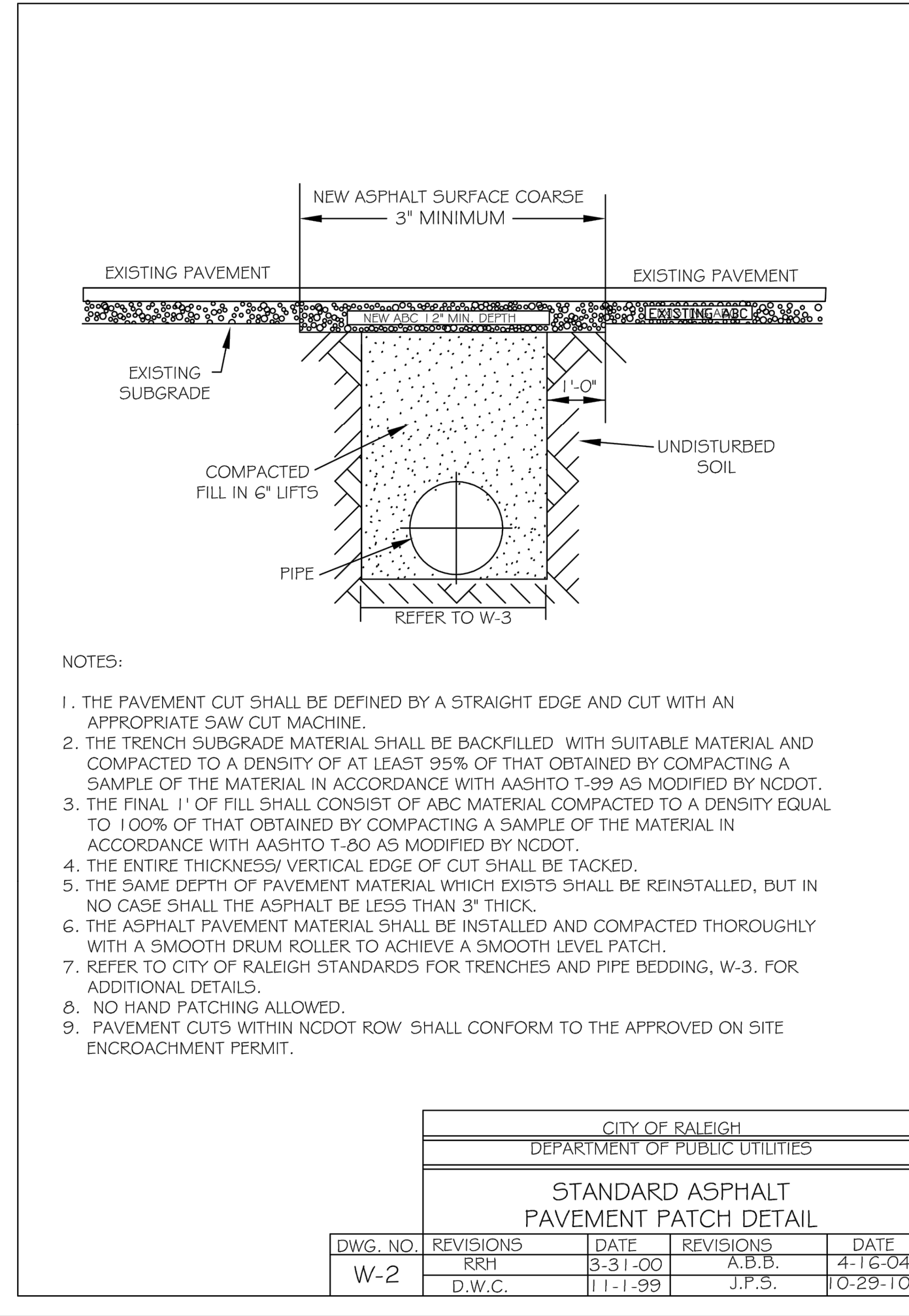


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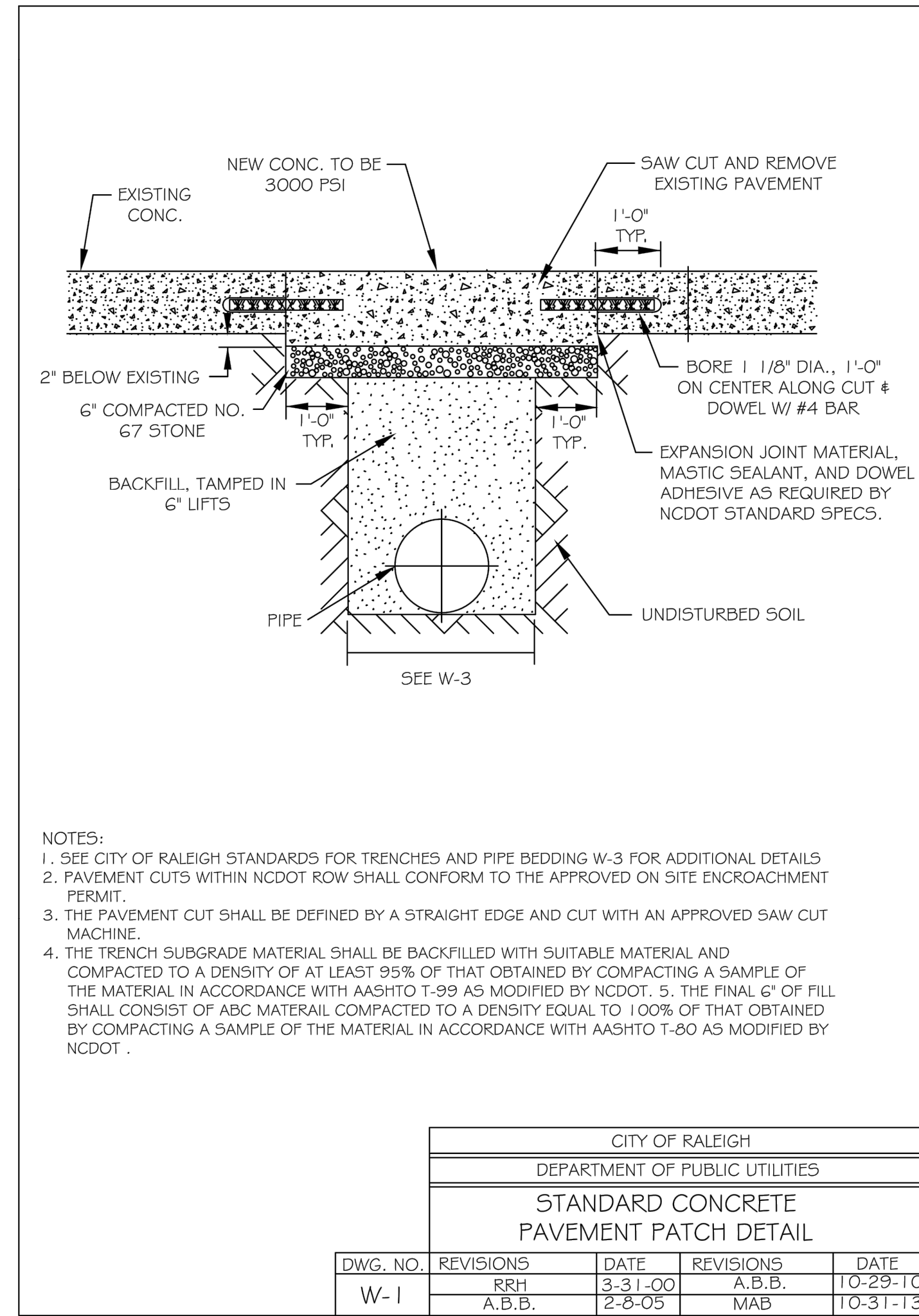
- NOTES:
1. TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
 2. NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN BACKFILL.
 3. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL.
 4. BACKFILL SHALL BE TAMPED IN 6" LIFTS.
 5. ACHIEVE 95% COMPACTION IN BACKFILL.

CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
TRENCH BOTTOM DIMENSIONS & BACKFILLING REQUIREMENTS FOR DUCTILE IRON				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-3	D.W.C.	9-3-99	ABB	2-15-05
	RRH	3-31-00	J.P.S.	10-29-10



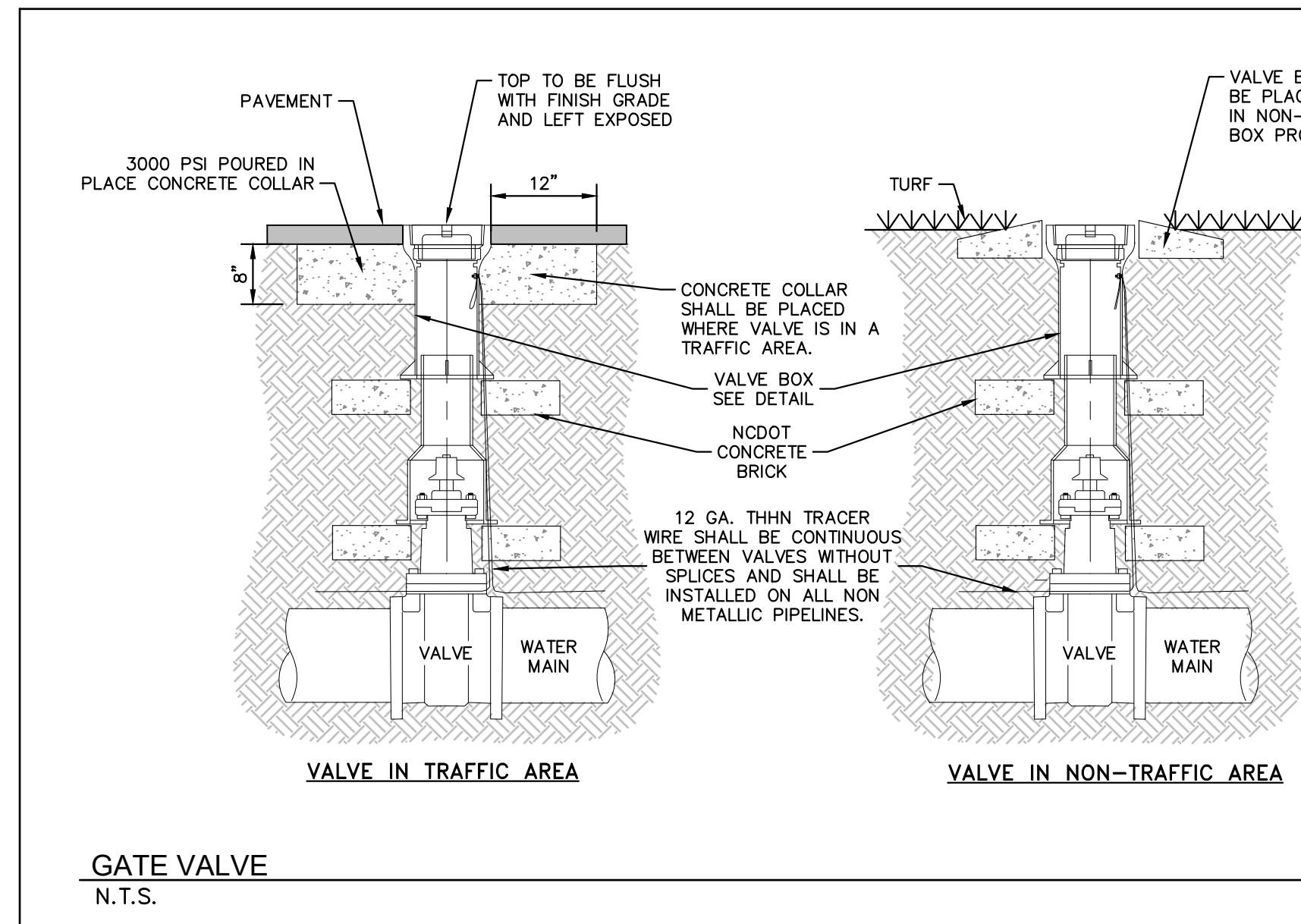
- NOTES:
1. THE PAVEMENT CUT SHALL BE DEFINED BY A STRAIGHT EDGE AND CUT WITH AN APPROPRIATE SAW CUT MACHINE.
 2. THE TRENCH SUBGRADE MATERIAL SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTION TO A DENSITY OF AT LEAST 95% OF THAT OBTAINED BY COMPACTION A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NCDOT.
 3. THE FINAL 1" OF FILL SHALL CONSIST OF ABC MATERIAL COMPACTION TO A DENSITY EQUAL TO 100% OF THAT OBTAINED BY COMPACTION A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NCDOT.
 4. THE ENTIRE THICKNESS/ VERTICAL EDGE OF CUT SHALL BE TACKED.
 5. THE SAME DEPTH OF PAVEMENT MATERIAL WHICH EXISTS SHALL BE REINSTALLED, BUT IN NO CASE SHALL THE ASPHALT BE LESS THAN 3" THICK.
 6. THE ASPHALT PAVEMENT MATERIAL SHALL BE INSTALLED AND COMPACTION THOROUGHLY WITH A SMOOTH DRUM ROLLER TO ACHIEVE A SMOOTH LEVEL PATCH.
 7. REFER TO CITY OF RALEIGH STANDARDS FOR TRENCHES AND PIPE BEDDING, W-3, FOR ADDITIONAL DETAILS.
 8. NO HAND PATCHING ALLOWED.
 9. PAVEMENT CUTS WITHIN NCDOT ROW SHALL CONFORM TO THE APPROVED ON SITE ENCROACHMENT PERMIT.

CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
STANDARD ASPHALT PAVEMENT PATCH DETAIL				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-2	RRH	3-31-00	A.B.B.	4-16-04
	D.W.C.	1-1-99	J.P.S.	10-29-10



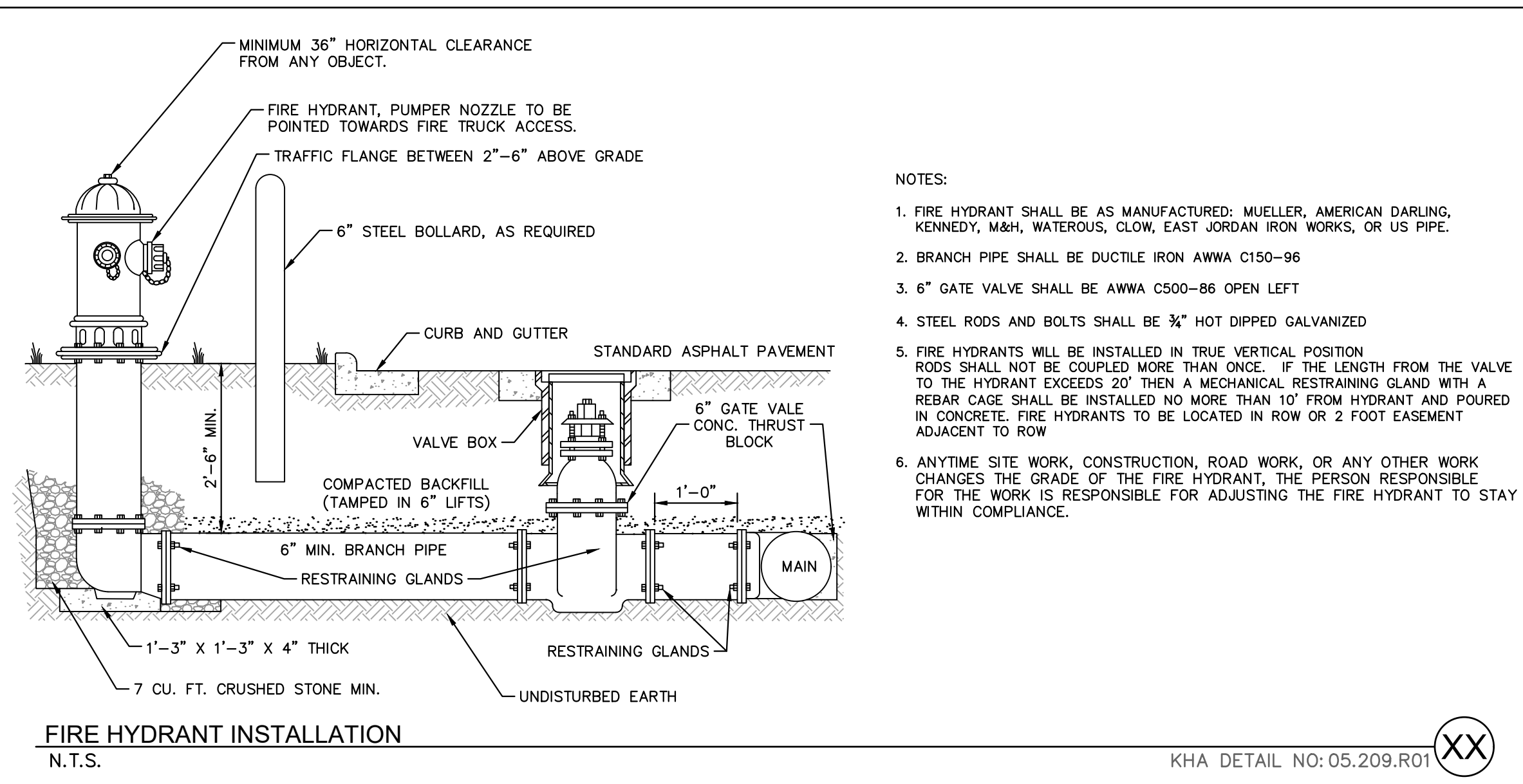
- NOTES:
1. SEE CITY OF RALEIGH STANDARDS FOR TRENCHES AND PIPE BEDDING W-3 FOR ADDITIONAL DETAILS.
 2. PAVEMENT CUTS WITHIN NCDOT ROW SHALL CONFORM TO THE APPROVED ON SITE ENCROACHMENT PERMIT.
 3. THE PAVEMENT CUT SHALL BE DEFINED BY A STRAIGHT EDGE AND CUT WITH AN APPROVED SAW CUT MACHINE.
 4. THE TRENCH SUBGRADE MATERIAL SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTION TO A DENSITY OF AT LEAST 95% OF THAT OBTAINED BY COMPACTION A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NCDOT. 5. THE FINAL 6" OF FILL SHALL CONSIST OF ABC MATERIAL COMPACTION TO A DENSITY EQUAL TO 100% OF THAT OBTAINED BY COMPACTION A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NCDOT.

CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
STANDARD CONCRETE PAVEMENT PATCH DETAIL				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-1	RRH	3-31-00	A.B.B.	10-29-10
	A.B.B.	2-8-05	MAB	10-31-13



- NOTES:
1. RESILIENT WEDGE GATE VALVE SHALL BE AS MANUFACTURED BY MUELLER CORP., AMERICAN DARLING, CLOW CORP., OR APPROVED EQUAL.
 2. ALL VALVES SHALL HAVE 2" SQUARE OPERATING NUT AND SHALL OPEN COUNTERCLOCKWISE.
 3. VALVE BODY, BONNET & GATE SHALL BE DUCTILE IRON CONFORMING TO ASTM A-536.
 4. VALVE BODY AND BONNET SHALL BE COATED ON ALL INTERIOR AND EXTERIOR SURFACES WITH A FUSION BONDED EPOXY IN ACCORDANCE WITH AWWA C-550-90.
 5. ALL VALVES 24" AND SMALLER SHALL HAVE A SAFE WORKING PRESSURE OF 250 PSI.

KHA DETAIL NO: 05.205.R01 XX



- NOTES:
1. FIRE HYDRANT SHALL BE AS MANUFACTURED: MUELLER, AMERICAN DARLING, KENNEDY, M&H, WATEROUS, CLOW, EAST JORDAN IRON WORKS, OR US PIPE.
 2. BRANCH PIPE SHALL BE DUCTILE IRON AWWA C150-96
 3. 6" GATE VALVE SHALL BE AWWA C500-86 OPEN LEFT
 4. STEEL RODS AND BOLTS SHALL BE 3/4" HOT DIPPED GALVANIZED
 5. FIRE HYDRANTS WILL BE INSTALLED IN TRUE VERTICAL POSITION. RODS SHALL NOT BE COUPLED MORE THAN ONCE. IF THE LENGTH FROM THE VALVE TO THE HYDRANT EXCEEDS 20' THEN A MECHANICAL RESTRAINING GLAND WITH A REBAR CAGE SHALL BE INSTALLED NO MORE THAN 10' FROM HYDRANT AND POURED IN CONCRETE. FIRE HYDRANTS TO BE LOCATED IN ROW OR 2 FOOT EASEMENT ADJACENT TO ROW
 6. ANYTIME SITE WORK, CONSTRUCTION, ROAD WORK, OR ANY OTHER WORK CHANGES THE GRADE OF THE FIRE HYDRANT, THE PERSON RESPONSIBLE FOR THE WORK IS RESPONSIBLE FOR ADJUSTING THE FIRE HYDRANT TO STAY WITHIN COMPLIANCE.

KHA DETAIL NO: 05.209.R01 XX

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THE LEARNING CENTER ROLESVILLE
 PREPARED FOR
 ROLESVILLE, LLC.
 TOWN OF ROLESVILLE
 NORTH CAROLINA

WATER DETAILS

811
 Know what's below.
 Call before you dig.

KHA PROJECT 013031004
 DATE 09/29/2023
 SCALE AS SHOWN
 DESIGNED BY JAA
 DRAWN BY JAA
 CHECKED BY COB

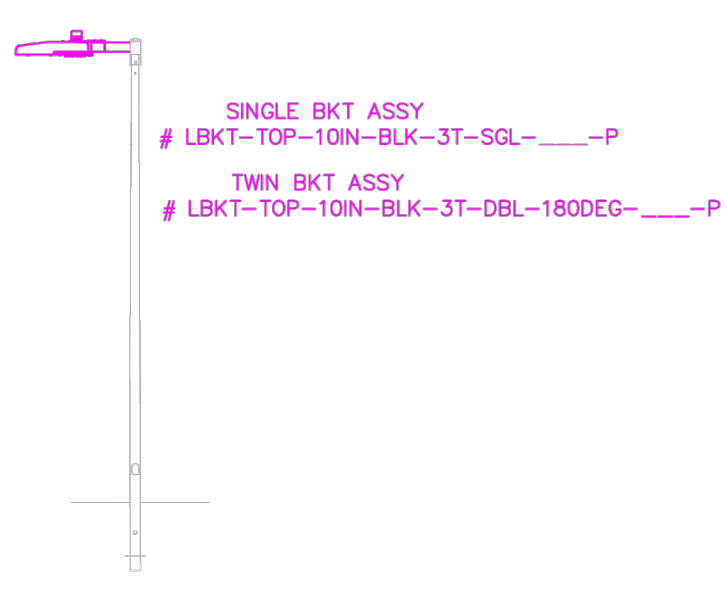
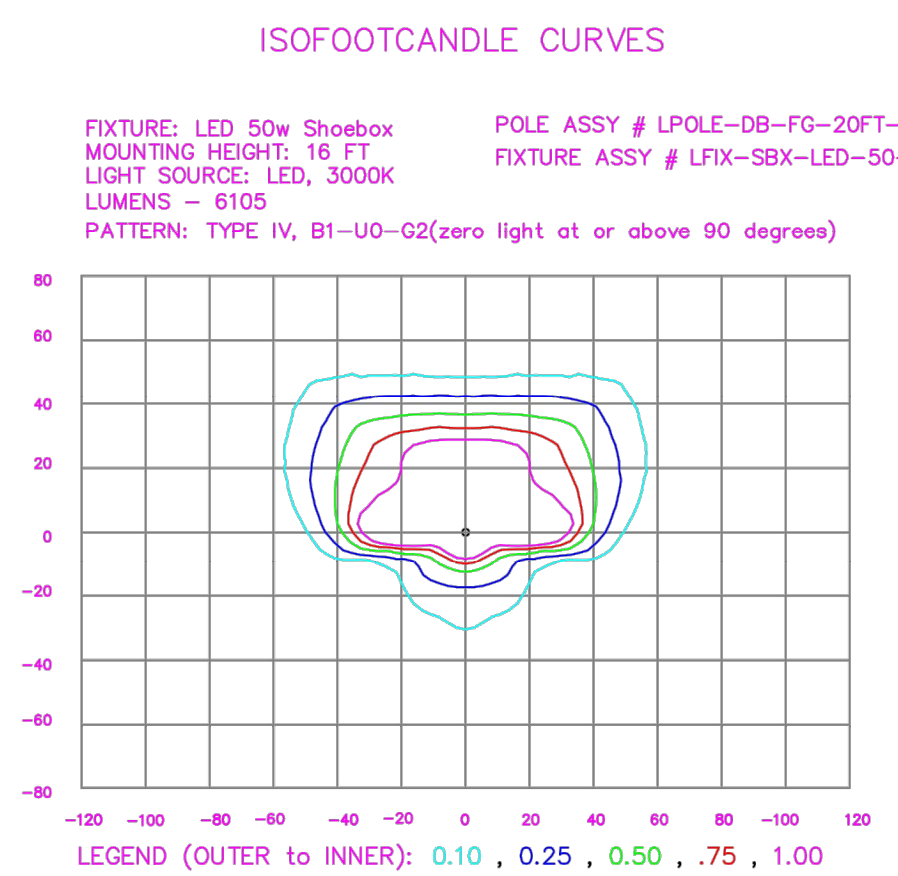
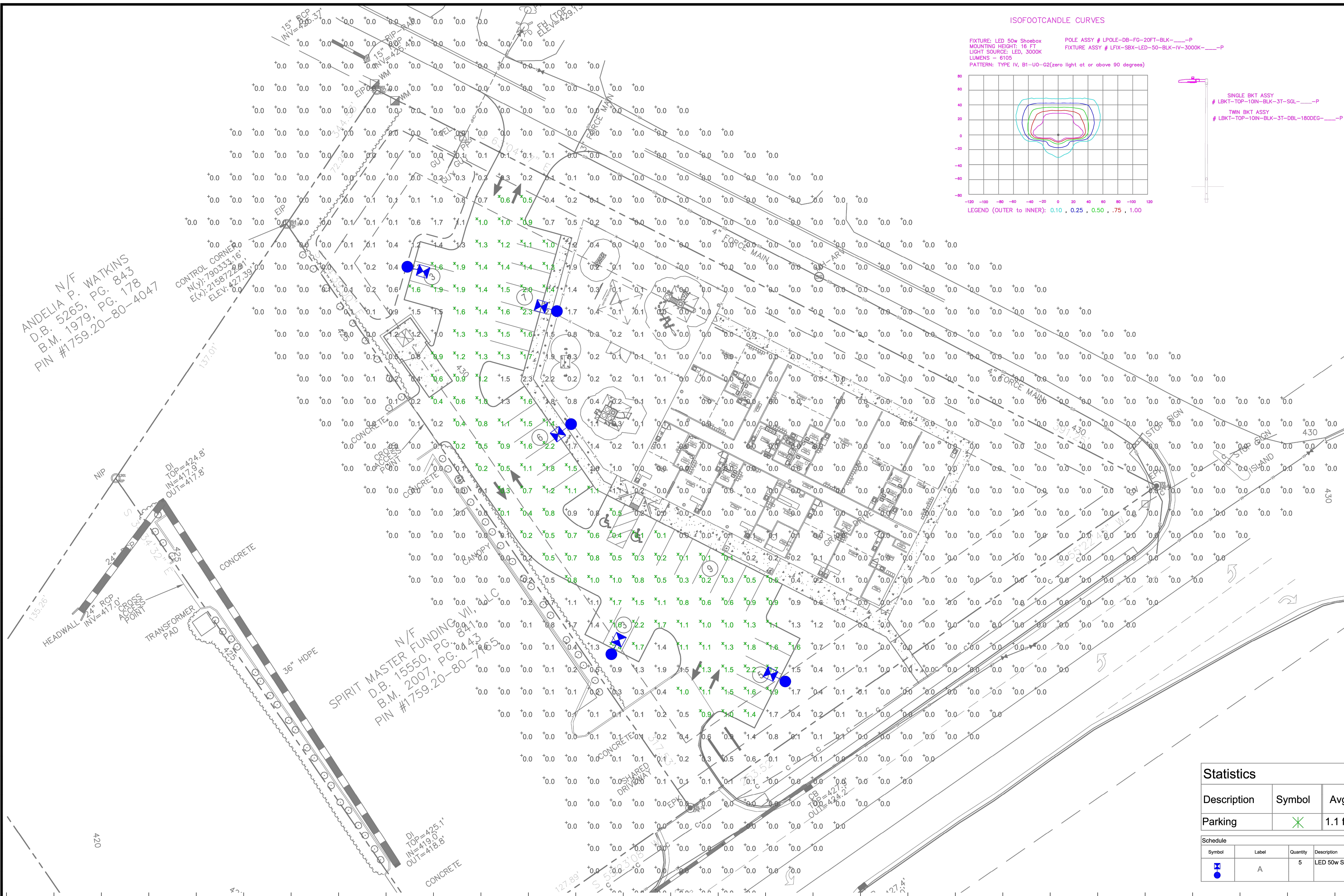
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 421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601

NO. 1 2 3 4 5 6 7

SHEET NUMBER
 C11.0

REVISIONS

DATE



Outdoor Lighting

PEDESTRIAN SHOEBOX LED
(Meets Dark Sky Criteria)

LED (Light-emitting diode)	50 watts
Mounting height	12' - 17'
Color	Black
Pole	Aluminum Flangeless Concrete Decorative Aluminum
Applications	Neighborhoods Parks Shopping centers

Light source: LED (Aria)
Wattage: 50 watts
Lumens: 6,105 (1.4xLSF)
Light pattern: IESNA Type IV
IESNA cutoff classification: Full cutoff
BUG rating: Type IV - B1 U0 G2
Color temperature: 3,000K (1.4,000K)

POLE AVAILABLE	MOUNTING HEIGHT	COLOR
Aluminum	12', 15', 17'	Black
Flangeless	15'	Black
Flush Concrete	15'	Black
Decorative Aluminum	12', 16'	Black

FEATURES	BENEFITS
Touchless operation	Provides hands-free installation and service
Little or no installation cost	Free up capital for other projects
Design services by lighting professionals included	Meets industry standards and lighting ordinances
Maintenance, electricity & warranty included	Eliminates high and unexpected repair bills
One low monthly cost on your electric bill	Convenience and savings for you

For additional information, contact us at GOLC@dukeenergy.com.

ANDELIA N/F
D.B. 5265, PG. 843
B.M. 1979, PG. 178
PIN #1759.20-80-4047

CONTROL CORNER
N(4) 7903.53.16'
E(X) 21587.22.88'
ELEV. 427.39'

SPIRIT MASTER FUNDING VII, LLC
D.B. 15550, PG. 841
B.M. 2007, PG. 443
PIN #1759.20-80-74635

LT1.0

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Parking	✕	1.1 fc	2.4 fc	0.1 fc	24.0:1	11.0:1

Schedule						
Symbol	Label	Quantity	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor
✕	A	5	LED 50w Shoebox - Type IV - 3000K	16	382	0.85

NO.	DATE	REVISION	BY



LIGHTING DESIGN TOLERANCE
The calculated footcandle light levels in this lighting design are predicted values and are based on specific information that has been supplied to Duke Energy. Any inaccuracies in the supplied information, differences in luminaire installation, lighted area geometry including elevation differences, reflective properties of surrounding surfaces, obstructions (foliage or otherwise) in the lighted area, or lighting from sources other than listed in this design may produce different results from the predicted values. Normal tolerances of voltage, lamp output, and ballast and luminaire manufacture will also affect results.



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ROLESVILLE LEARNING CENTER Rolesville, NC	
SITE LIGHTING ARRANGEMENT	
Designed by	DUKE ENERGY PROGRESS LIGHTING SOLUTIONS
Reviewed by	N. Johnson
Date	09/25/2023
Description	LED Pedestrian Shoebox
Drawing No.	23-0400A
Scale	1" = 20'
Size	Drawing size "D"
Sht.	1 OF 1

Plotted By: Alexander, Jamal Sheet Set: THE LEARNING CENTER ROLESVILLE, Layout: L1.LANDSCAPE PLAN, October 02, 2023 02:44:11pm K:\REAL_LDEV\013031004_Rolesville Learning_Center\IPID_CAD Files\SheetSet_L1.LANDSCAPE PLAN.dwg
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PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SIZE	HEIGHT
	AN	3	ACER NEGUNDO	BOX ELDER	B&B	2.5" CAL.	8-10' MIN
	CC	6	CERCIS CANADENSIS	EASTERN REDBUD	B&B	2.5" CAL.	8-10' MIN
	MG	14	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA	B&B	2.5" CAL.	8-10' MIN
	QV	14	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	B&B	2.5" CAL.	8-10' MIN
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SIZE	HEIGHT
	HW	76	HYDRANGEA ARBORESCENS	WILD HYDRANGEA	5 GAL	24" HT.	
	IG	71	ILEX GLABRA	INKBERRY HOLLY	5 GAL	24" HT.	
	PM	72	PIERIS FLORIBUNDA	MOUNTAIN PIERIS	5 GAL	24" HT.	
	RP	74	ROSA CAROLINA	CAROLINA ROSE	5 GAL	24" HT.	
	RS	74	RHODODENDRON ARBORESCENS	SWEET AZALEA	5 GAL	24" HT.	
	SM	70	SPIRAEA ALBA	MEADOWSWEET	5 GAL	24" HT.	
GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SIZE	HEIGHT
	CP	114	CAREX PLANTAGINEA	PLANTAIN-LEAVED SEDGE	1 GAL		

Please include a column showing what requirement each plant will fulfill.

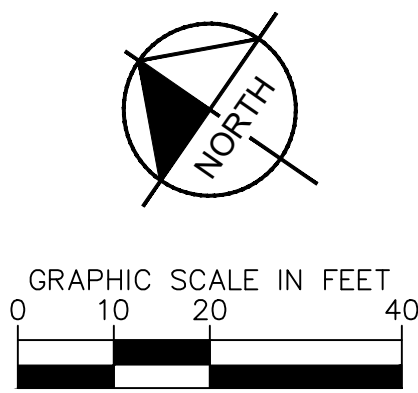
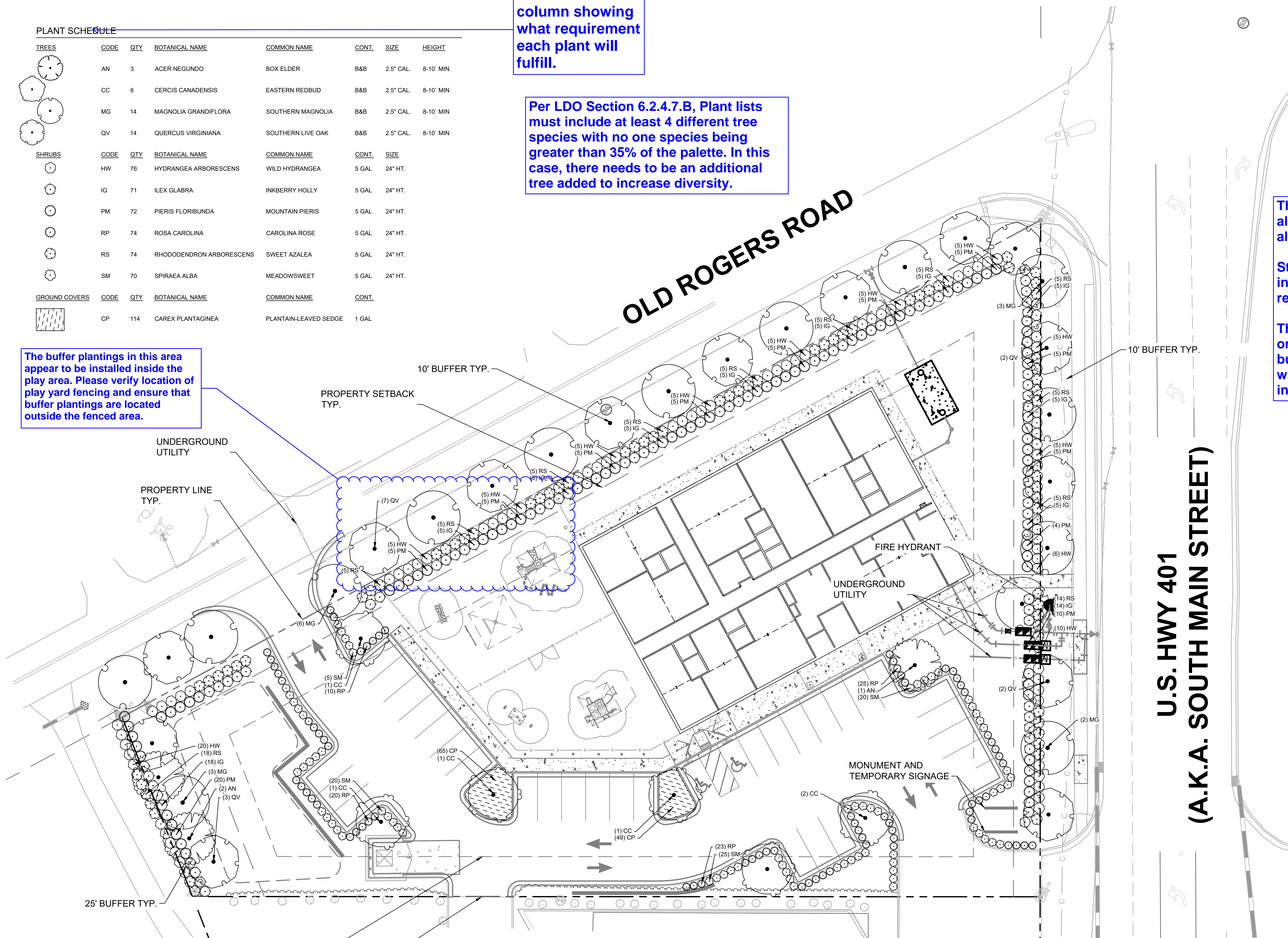
Per LDO Section 6.2.4.7.B, Plant lists must include at least 4 different tree species with no one species being greater than 35% of the palette. In this case, there needs to be an additional tree added to increase diversity.

The buffer plantings in this area appear to be installed inside the play area. Please verify location of play yard fencing and ensure that buffer plantings are located outside the fenced area.

The applicant is providing a 10' street buffer along all street frontages. A 30' street buffer is required along Main Street.

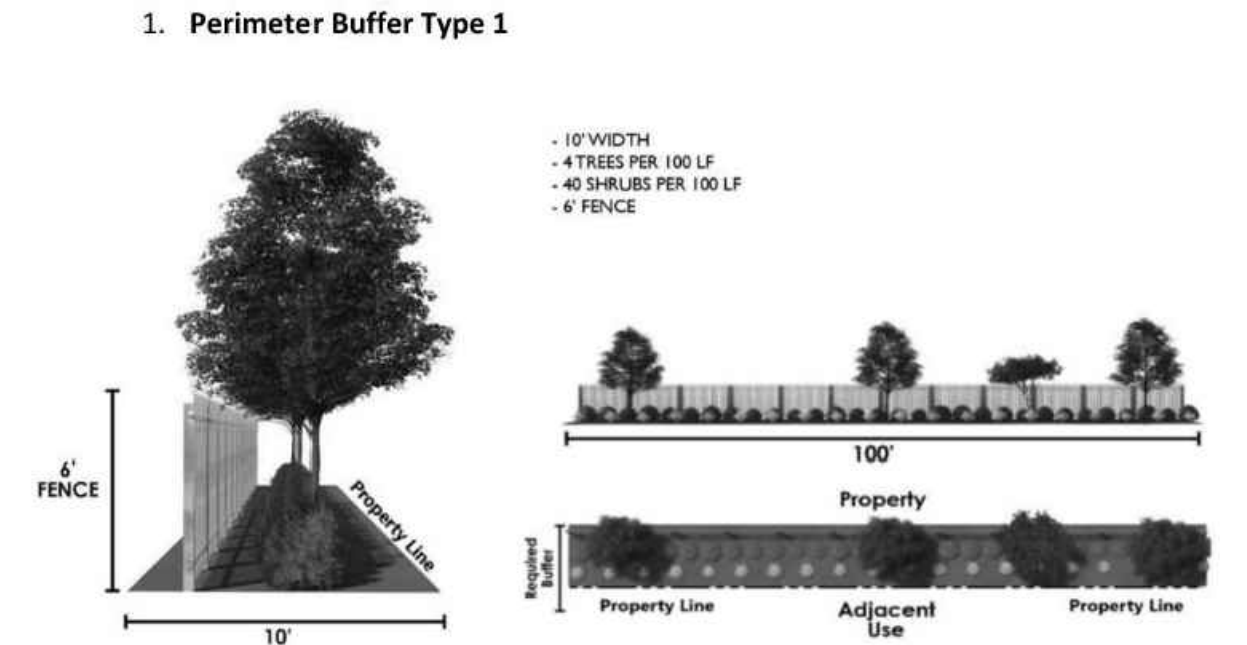
Street trees are located within the right-of-way instead of in the required street buffer. This will require permission from the Town and/or NCDOT

The applicant is providing setbacks either meeting or exceeding the ordinance requirements, yet the buffers are limited to 10'. It is suggested that buffer width along Main Street be increased and trees be included in the buffer area.

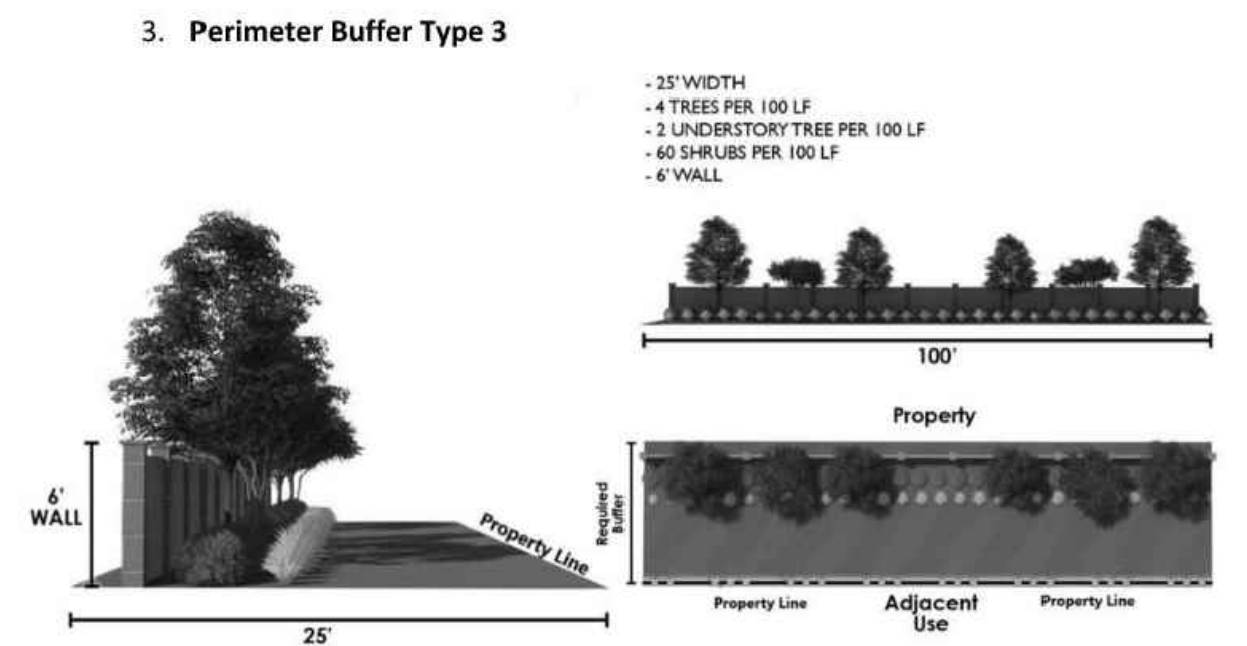


ROLESVILLE LAND DEVELOPMENT ORDINANCE

F. Perimeter Buffer Types. The following images show an example of buffer types defined in Table 6.2.2.1.



ROLESVILLE LAND DEVELOPMENT ORDINANCE



Per LDO Section 6.2.2.1.F.3, a 6 foot wall is required with a Type 3 buffer.

Per LDO Section 6.2.2.4.C, all parking spaces shall be within 60' of a canopy tree

LANDSCAPE REQUIREMENTS & CALCULATIONS

AREA TO BE LANDSCAPED	CODE REQUIREMENT	LOCATION	MEASUREMENT	QUANTITY REQUIRED	TOTAL QUANTITY PROVIDED	CODE SECTION
TYPE 1 BUFFER (10' WIDE)	4 CANOPY TREE PER 100 LF	NORTH - OLD ROGERS ROAD	*332 LF	(332 / 100) X 4 = 14 CANOPY TREES	14 CANOPY TREES	SECTION 6.2.2
		EAST - US HWY 401	*256 LF	(256 / 100) X 4 = 10 CANOPY TREES	10 CANOPY TREES	SECTION 6.2.2
TYPE 3 BUFFER (25' WIDE)	4 CANOPY TREES PER 100 LF 2 UNDERSTORY TREES PER 100 LF	WEST	*92 LF	(92 / 100) X 4 = 4 UNDERSTORY TREES	4 CANOPY TREES	SECTION 6.2.2
		WEST	*92 LF	(92 / 100) X 2 = 2 UNDERSTORY TREES	2 UNDERSTORY TREES	SECTION 6.2.2
PARKING LOT	1 LARGE OR 1 MEDIUM CANOPY TREE PER PARKING ISLAND	PARKING LOT		(2 X 1) = 2 CANOPY TREES	7 CANOPY TREES	SECTION 6.2.4

*NOTE: PER CODE SECTION 6.2.4, PARKING PERIMETER PLANTINGS SHALL CONSIST OF A SINGLE CONTINUOUS ROW OF SHRUBS PLANTED NO GREATER THAN THREE (3) FEET ON-CENTER AND WITHIN FIVE (5) FEET OF THE PARKING LOT EDGE. SHRUBS USED FOR PARKING PERIMETER PLANTING SHALL BE OF A MINIMUM HEIGHT OF THIRTY (30) INCHES ABOVE GRADE WITHIN THREE YEARS OF PLANTING. SHRUBS MAY NOT EXCEED A HEIGHT OF FOUR (4) FEET AND SHALL BE PRUNED AND MAINTAINED.

*NOTE: ALL LINEAR FOOT MEASUREMENTS EXCLUDE DRIVEWAY WIDTHS AS APPLICABLE

SURVEY NOTE:
EXISTING TOPOGRAPHICAL INFORMATION IS BASED ON A TOPOGRAPHIC SURVEY OBTAINED ON 02/23/2023 BY CMP PROFESSIONAL LAND SURVEYORS, 333 S. WHITE STREET, WAKE FOREST, NC 27588. PHONE: (919) 556-3148. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION, DEPICTED OR NOT, PRIOR TO CONSTRUCTION AND REPORT POTENTIAL CONFLICTS TO OWNER AND ENGINEER.



Know what's below. Call before you dig.

Kimley >>> Horn
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 #F-0102 WWW.KIMLEY-HORN.COM PHONE: 919.677.2000 FAX: 919.677.2050
 421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601

REVISIONS
 No. DATE

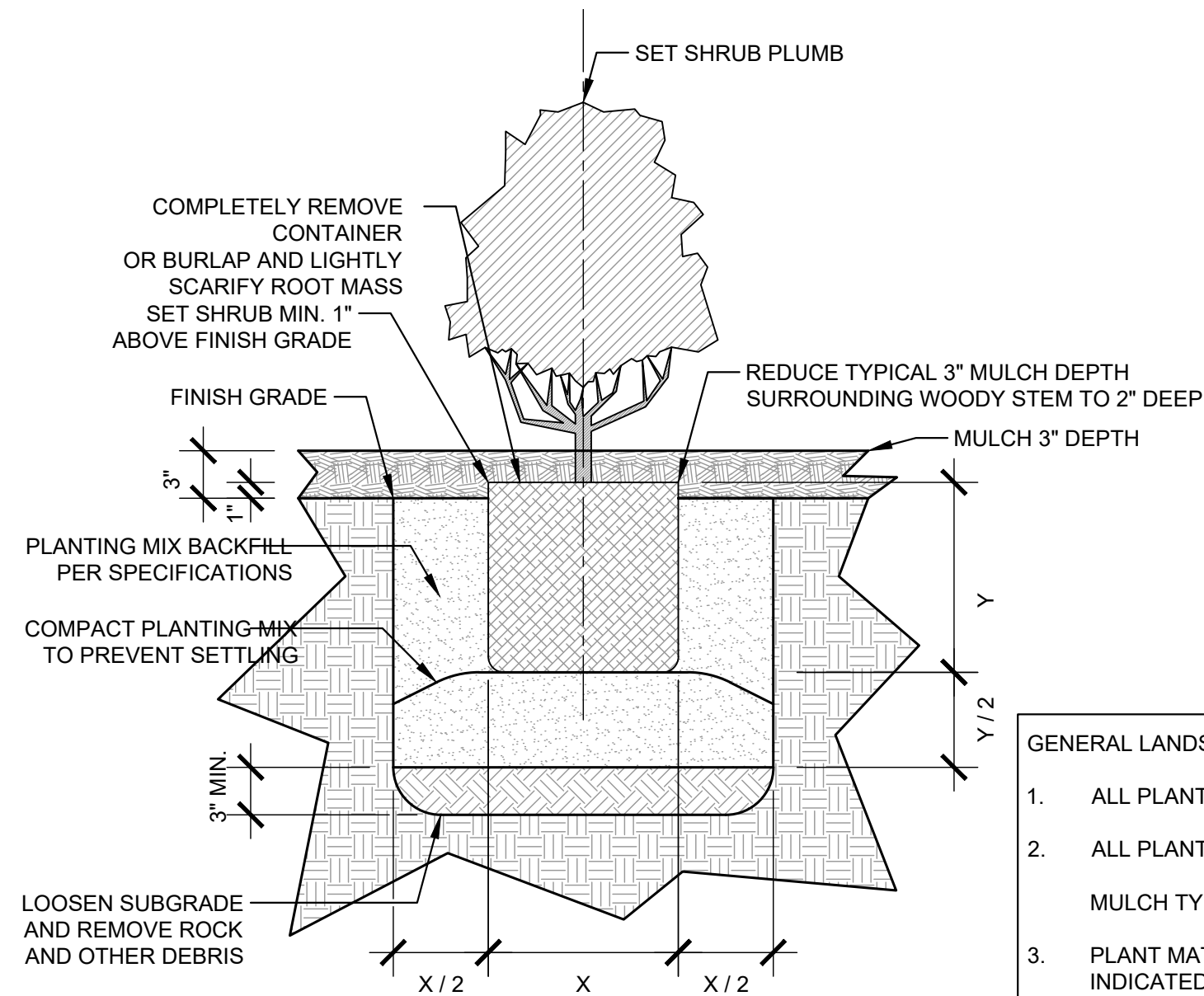
KHA PROJECT 013031004
 DATE 09/29/2023
 SCALE AS SHOWN
 DESIGNED BY JAA
 DRAWN BY JAA
 CHECKED BY COE

THE LEARNING CENTER ROLESVILLE
 PREPARED FOR ROLESVILLE, LLC.
 TOWN OF ROLESVILLE NORTH CAROLINA

LANDSCAPE PLAN

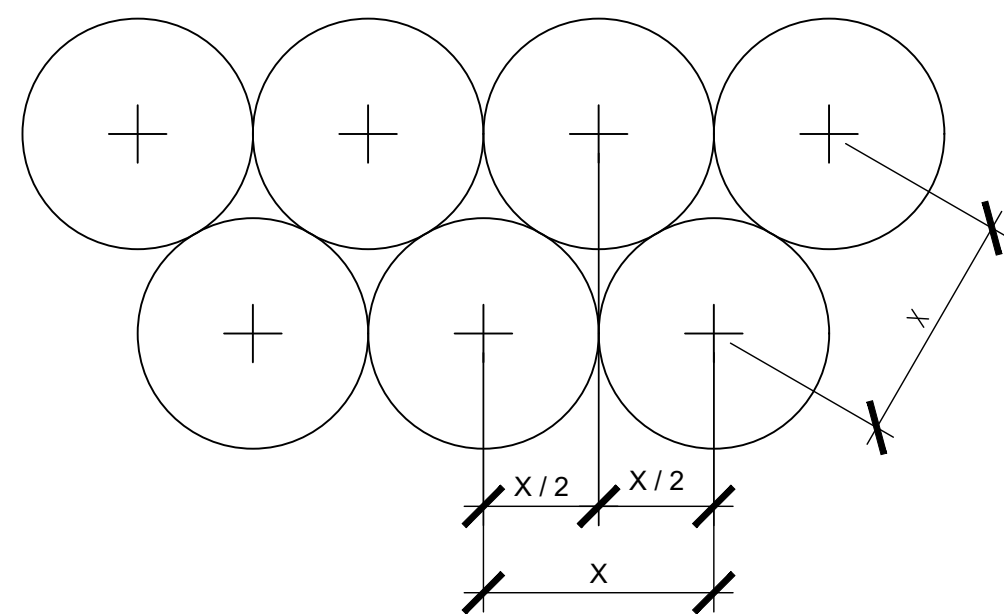
SHEET NUMBER L1.0

Plotted By: Alexander, Jamal Sheet Set: THE LEARNING CENTER ROLESVILLE Layout: L2.0 LANDSCAPE DETAILS October 02, 2023 02:44:22pm K:\RAL_LDEV\013031004_Rolesville Learning_Center\PI.D CAD Files\Sheet\2.0 LANDSCAPE DETAILS.dwg
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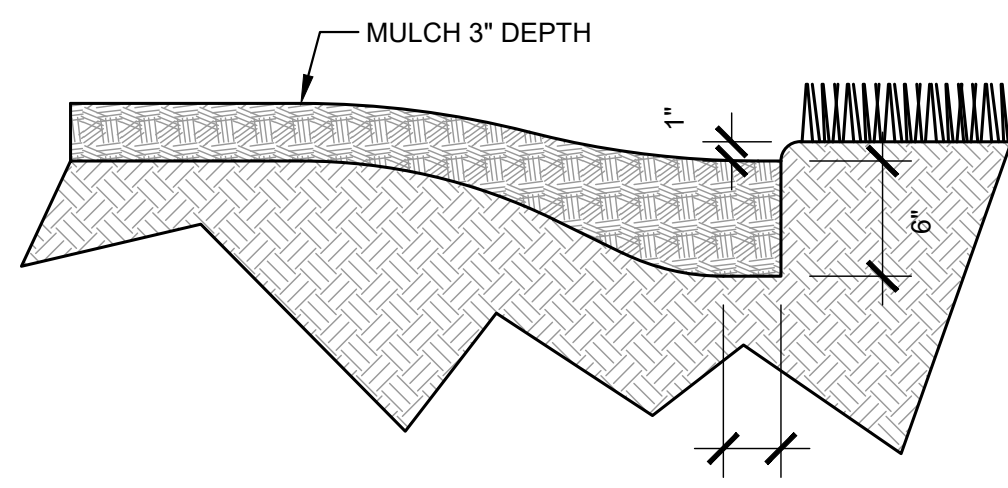
1
 LS-2
TYPICAL SHRUB PLANTING
 SECTION
 SCALE: 1"=1'-0"

- GENERAL LANDSCAPE NOTES:**
- ALL PLANT MATERIAL PRICING SHALL INCLUDE MULCH, BED PREPARATION, AND STAKING.
 - ALL PLANTING BEDS SHALL RECEIVE 3" (THREE INCHES) OF MULCH.
MULCH TYPE FOR PROJECT: DOUBLE SHREDDED HARDWOOD
 - PLANT MATERIAL SPACING SHOWN ON LANDSCAPE PLANS SHALL OVERRIDE TYPICAL PLANT SPACING INDICATED ON PLANT SCHEDULE. LANDSCAPE CONTRACTOR RESPONSIBLE FOR VERIFYING ALL PLANT SPACING AND MAKING MINOR FIELD ADJUSTMENTS DUE TO UTILITY CONFLICTS.



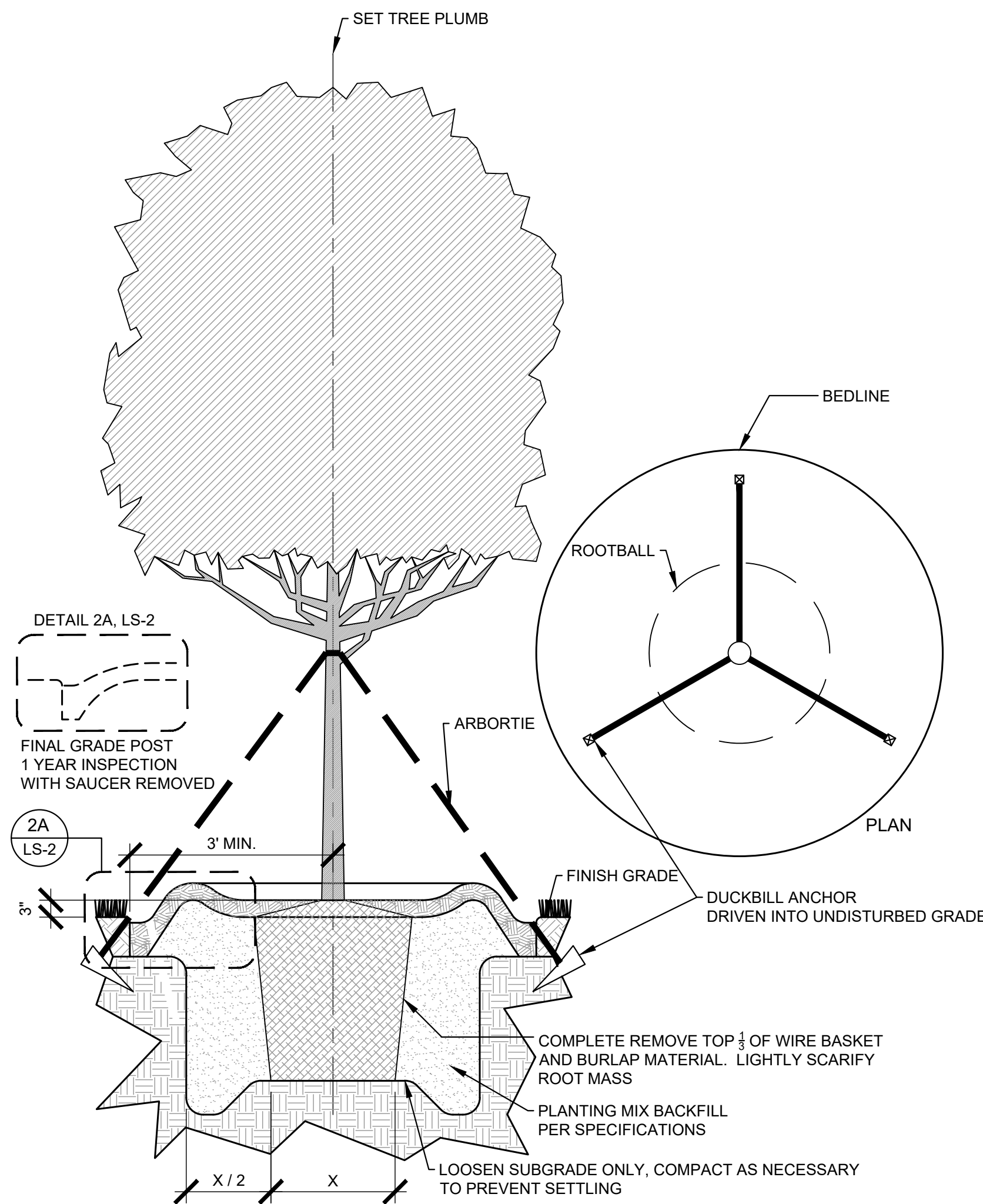
- PLANT SPACING NOTES:**
- SEE PLANTING PLAN FOR SHRUB AND GROUND COVER AREAS.
 - PLANT MATERIAL SHALL BE INSTALLED IN STRAIGHT AND PARALLEL ROWS UNLESS OTHERWISE SHOWN ON DRAWINGS.
 - SEE PLANTING PLAN AND / OR PLANT SCHEDULE FOR ACTUAL PLANT SPACING.

2
 LS-2
TYPICAL STAGGERED ROW PLANT SPACING
 PLAN
 SCALE: 1/2"=1'-0"



- PLANTING BED TRENCH EDGING NOTE:**
- TRENCH EDGE SHALL BE LOCATED BETWEEN PLANTING BED AND ALL TURF OR NATIVE GRASS AREAS.
 - TRENCH EDGE SHALL BE CONSTRUCTED ALONG ALL HARDSCAPE AREAS FOR SIMILAR CONDITION.
 - MAINTAIN POSITIVE DRAINAGE IN ALL PLANTING BEDS.

3
 LS-2
PLANTING BED TRENCH EDGING
 SECTION
 SCALE: 1"=1'-0"



- TREE PLANTING NOTES:**
- 4"-6" DIAMETER RIVER ROCK (INSIDE THE BUILDING PAD) OR 3" MINIMUM OF HARDWOOD BARK MULCH OR AS SPECIFIED (IN OUTLYING PLANT BEDS) (MULCH TYPE FOR PROJECT: SHREDDED CYPRESS MULCH)
 - TOP OF ROOTBALL MIN. 1" ABOVE FINISHED GRADE
 - ROOTBALLS GREATER THEN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING. ROOTBALLS SMALLER THEN 24" IN DIAMETER MAY SIT ON COMPACTED EARTH.

4
 LS-2
TYPICAL TREE PLANTING & GUYING
 PLAN & SECTION
 SCALE: 1/2"=1'-0"

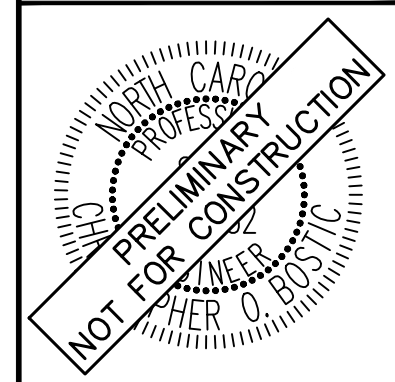
GENERAL LANDSCAPE NOTES:

- ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE.
- ALL PLANTS MUST BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED IN THE PLANT LIST.
- ALL TREES MUST HAVE A STRAIGHT TRUNK AND FULL HEADED AND MEET ALL REQUIREMENTS SPECIFIED.
- ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER INSTALLATION.
- ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DETAILS.
- ALL SHADE TREES LOCATED WITHIN VEHICLE SIGHT TRIANGLES SHALL BE BRANCHED MIN. 8' (MEASURED FROM ADJACENT PROJECTED CURB LINE ELEVATION) PER ANSI Z60.1 STANDARDS FOR HEIGHT OF BRANCHING - STREET TREES.
- ALL PLANTING AREAS MUST BE COMPLETELY MULCHED AS SPECIFIED.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK. ANY DISCREPANCIES BETWEEN QUANTITIES ON PLAN AND PLANT LIST SHALL BE BROUGHT TO THE ATTENTION OF WAKE COUNTY INSPECTOR AND ANY FIELD ADJUSTMENTS OR QUANTITY ADJUSTMENTS MUST BE AUTHORIZED PRIOR TO PLANTING.
- THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) OF THE PLANTING AREAS AND LAWN UNTIL SUBSTANTIAL COMPLETION.
- CONTRACTOR SHALL INSTALL AND MAINTAIN TWO (2) GATORBAGS PER LARGE CANOPY TREE
- THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF TWO (2) YEAR BEGINNING ON THE DATE OF SUBSTANTIAL COMPLETION. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD.
- LANDSCAPE ARCHITECT SHALL APPROVE ALL BED LAYOUT STAKING PRIOR TO INSTALLATION OF PLANT MATERIAL.
- THE LANDSCAPE ARCHITECT SHALL APPROVE THE STAKING LOCATION OF ALL TREES PRIOR TO INSTALLATION.
- AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR TWO (2) WEEKS UNDER A MIST SYSTEM PRIOR TO INSTALLATION.
- ANY PLANT MATERIAL WHICH DIES, TURNS BROWN, OR DEFOLIATES (PRIOR TO SUBSTANTIAL COMPLETION OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT SCHEDULE SPECIFICATIONS.
- STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
- ALL SHRUB, GROUND COVER AND SEASONAL COLOR ANNUAL PLANTING BEDS ARE TO BE COMPLETELY COVERED WITH DOUBLE SHREDDED HARDWOOD OR CURRENT CITY STANDARD TO A DEPTH OF THREE (3) INCHES.
- LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF UTILITY LINES AND ADJACENT TO THE WORK AREA. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD.
- SAFE, CLEARLY MARKED PEDESTRIAN AND VEHICULAR ACCESS TO ALL ADJACENT PROPERTIES MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS.
- ALL PLANT MATERIAL QUANTITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANTING BEDS AT SPACING SHOWN.
- THE TOP OF ALL ROOT BALLS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE, AS BORN TO PREVIOUS GRADE AND GROWING CONDITIONS.
- ALL ROOT BALLS REMOVED FROM CONTAINERS SHALL BE SCARIFIED PRIOR TO BACKFILLING.
- ALL STRAPPING AND TOP 2/3 OF WIRE BASKET MUST BE CUT AWAY AND REMOVED FROM ROOT BALL PRIOR TO BACKFILLING PLANTING PIT. REMOVE TOP 1/3 OF THE BURLAP FROM ROOT BALL.
- FOR NEW PLANTING AREAS, REMOVE ALL PAVEMENT, GRAVEL SUB-BASE AND CONSTRUCTION DEBRIS; REMOVE COMPACTED SOIL AND ADD 24" NEW TOPSOIL OR UNCOMPACT AND AMEND THE TOP 24" OF EXISTING SOIL TO MEET TOPSOIL PLANTING MIX STANDARDS FOR TREES. SEE DETAILS THIS SHEET.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING TREES AND SHRUBS THAT WILL MEET BOTH MINIMUM SIZE AND SPACING FOR TREE AND ZONING ORDINANCE COMPLIANCE. FAILURE TO INSTALL PLANT MATERIAL PER THIS PLAN WILL JEOPARDIZE ISSUANCE OF FINAL CERTIFICATE OF OCCUPANCY. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING INSPECTIONS OF PLANT MATERIAL.
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES & ORDINANCES REGARDING LANDSCAPING. GENERAL CONTRACTOR IS TO CLEAN THE ENTIRE SITE OF ALL CONSTRUCTION DEBRIS AND TO RAKE ENTIRE SITE.
- THE CONTRACTOR SHALL INSTALL BLACK FABRIC MESH UNDER PLANTING BED MULCH TO PREVENT WEED GROWTH.
- EACH LARGE CANOPY TREE AT THE TIME OF PLANTING SHALL BE A MINIMUM OF TWO (2) INCHES IN CALIPER AND EIGHT (8) - TEN (10) FEET IN HEIGHT. WHEN MATURE, A LARGE CANOPY TREE SHOULD BE AT LEAST FORTY (40) FEET HIGH AND HAVE A MINIMUM CROWN WIDTH OF THIRTY (30) FEET. LARGE CANOPY TREES MAY BE SUBSTITUTED WITH TWO (2) UNDERSTORY TREES. HOWEVER, NO MORE THAN FIFTY (50) PERCENT OF THE REQUIRED LARGE CANOPY TREES MAY BE SUBSTITUTED. EACH UNDERSTORY TREE AT THE TIME OF PLANTING SHALL BE A MINIMUM OF ONE (1) INCH IN CALIPER AND EIGHT (8) FEET IN HEIGHT. WHEN MATURE, AN UNDERSTORY TREE SHOULD BE BETWEEN FIFTEEN (15) AND FORTY (40) FEET HEIGHT. EVERY TWO (2) UNDERSTORY TREES MAY BE SUBSTITUTED WITH ONE (1) LARGE CANOPY TREE. HOWEVER, NO MORE THAN FIFTY (50) PERCENT OF THE REQUIRED UNDERSTORY TREES MAY BE SUBSTITUTED. EACH SHRUB AT THE TIME OF PLANTING SHALL BE 3 GALLON SIZE OR LARGER. SUBSTITUTIONS SHOULD BE CONFIRMED WITH THE PLANNING DIVISION.

NOTE:
 Each large canopy tree at the time of planting shall be a minimum of two (2) inches in caliper and eight (8) - ten (10) feet in height. When mature, a large canopy tree should be at least forty (40) feet high and have a minimum crown width of thirty (30) feet. Large canopy trees may be substituted with two (2) understory trees. However, no more than fifty (50) percent of the required large canopy trees may be substituted. Each understory tree at the time of planting shall be a minimum of one (1) inch in caliper and eight (8) feet in height. When mature, an understory tree should be between fifteen (15) and forty (40) feet height. Every two (2) understory trees may be substituted with one (1) large canopy tree. However, no more than fifty (50) percent of the required understory trees may be substituted. Each shrub at the time of planting shall be 3 gallon size or larger. Substitutions should be confirmed with the Planning Division.

No.	REVISIONS	DATE	BY
1			
2			
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Kimley»Horn
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 #F-0102 WWW.KIMLEY-HORN.COM PHONE: 919.677.2000 FAX: 919.677.2050



KHA PROJECT	013031004
DATE	09/29/2023
SCALE	AS SHOWN
DESIGNED BY	JAA
DRAWN BY	JAA
CHECKED BY	COB

LANDSCAPE DETAILS

THE LEARNING CENTER ROLESVILLE
 PREPARED FOR ROLESVILLE, LLC.
 TOWN OF ROLESVILLE NORTH CAROLINA

SHEET NUMBER
L2.0



