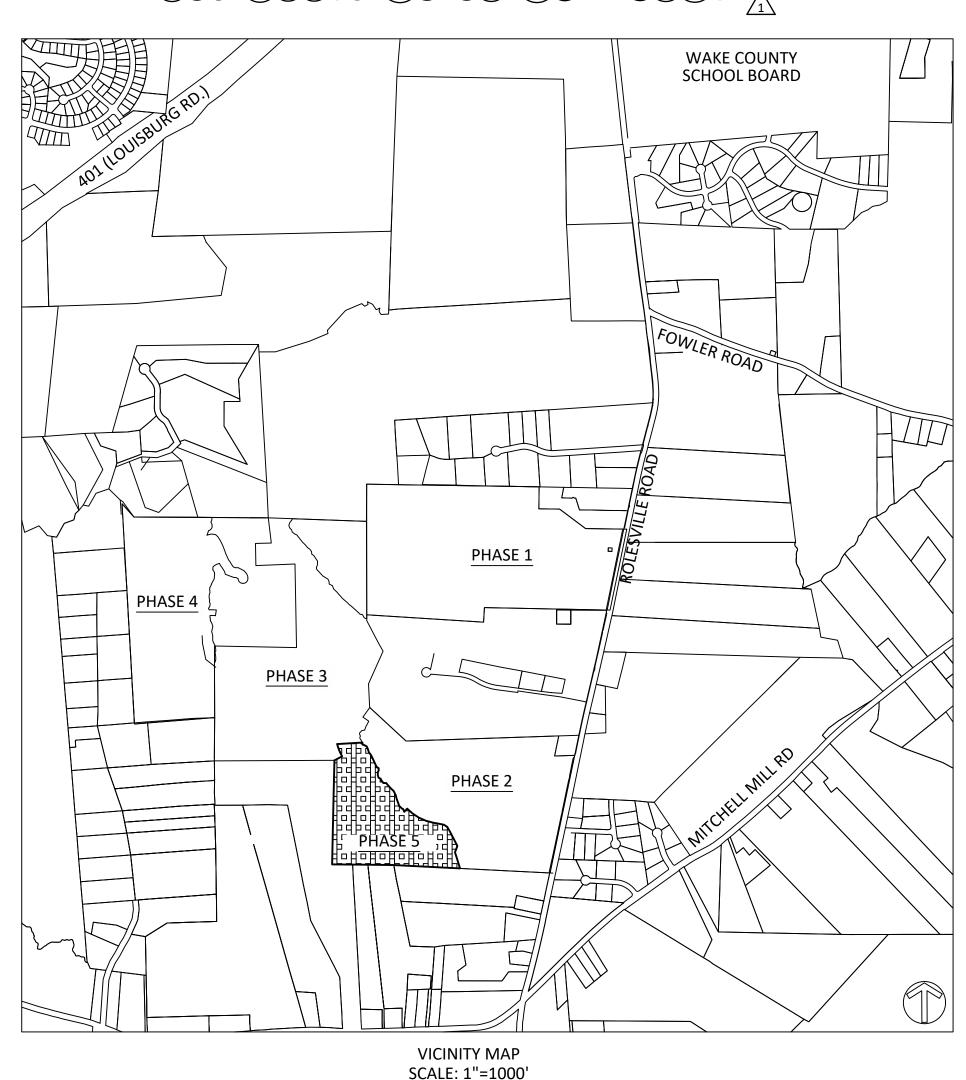
CONSTRUCTION INFRASTRUCTURE DRAWINGS

KALAS FALLS

PHASE 5 SITUATED IN THE TOWN OF ROLESVILLE

WAKE COUNTY, NORTH CAROLINA

CID-25-01 ORIGINAL SUBMITTAL: DECEMBER 23rd, 2024



THESE IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE FOLLOWING DRAWINGS AND THE STANDARD SPECIFICATIONS OF THE CITY OF RALEIGH, WAKE COUNTRY, TOWN OF ROLESVILLE, AND NCDOT.

	REQUIRED APPROVALS		
	PERMIT	PERMIT NUMBER:	
	TOWN OF ROLESVILLE SPECIAL USE PERMIT	SUP 19-01	
^ ~	TOWN OF ROLESVILLE PRELIMINARY PLAT	PSP-24-04	
	TOWN OF ROLESVILLE CONSTRUCTION INFRASTRUCTURE DRAWINGS	CID-25-01	$\left \frac{1}{2} \right $
	WAKE COUNTY EROSION CONTROL	SEC-138275-2024	$\left \begin{array}{c} 1 \\ 1 \end{array} \right $
(WAKE COUNTY STORMWATER	TBD	/
	CITY OF RALEIGH UTILITIES	TBD	

RALEIGH WATER INSPECTIONS QUANTITIES		
PHASE NUMBER	<u>5</u>	
NUMBER OF LOTS	95	
NUMBER OF UNITS	95	
PUBLIC WATER (LF)	2,954	
PUBLIC SEWER (LF)	2,283	
PUBLIC FORCE MAIN (LF)	N/A	
PRIVATE SEWER* (LF)	N/A	
WATER SERVICE STUBS (QUANTITY)	95	
SEWER SERVICE STUBS (QUANTITY)	95	
AVERAGE DAILY FLOW PER PHASE**	21,375 GPD	
*Sewer mains and manholes as part of a collection system		

**Entire Project Flow. Based on 75gpd per bedroom for residential

The meter size must match domestic service size (Exemption - $\frac{3}{4}$ "

on 15A NCAC 02T .0114 Wastewater Design Flow Rates for

Commercial and Industrial.

service tap with \frac{5}{8}" meter)

(Apartments, single Family dwelling, townhouse, condos), or based

Sheet	Sheet Title	
Number	Sneet little	
G-001	Cover Sheet	
G-002	Conditions of Approval	
G-003	Lot Areas and Open Space Plan	
CV100	Existing Conditions	
CX100	Demolition Plan	
CS100	Overall Site Plan	
CS110	Signage & Striping Plan	
CS401	Site Plan Area A	
CS402	Site Plan Area B	
CS403	Site Plan Area C	
CS500	Site Details	
CS501	Site Details	
CS502	Site Details	
CT200	Graymont Oaks Dr. Plan & Profile	
CT201	Graymont Oaks Dr. Plan & Profile	
CT202	Armfield Creek Place Plan & Profile	
CU100	Utility Plan Overall	
CU401	Utility Plan Area A	
CU402	Utility Plan Area B	
CU403	Utility Plan Area C	
CU500	Utility Details	
CU501	Utility Details	
CU502	Utility Details	
CU503	Utility Details	
CE100	ESC Phase 1 Overall	
CE400	ESC Phase 1 Area A	
CE401	ESC Phase 1 Area B	
CE402	ESC Phase 1 Area C	
CE110	ESC Phase 2 Overall	
CE410	ESC Phase 2 Area A	
CE411	ESC Phase 2 Area B	
CE412	ESC Phase 2 Area C	
CE413	ESC Phase 2 Offsite Area	
CE130	NPDES PLAN	
CE500	ESC Details	
CE501	ESC Details	
CE502	ESC Details	
CE503	ESC Details	
CE504	ESC Details	
CG100	Grading & Drainage Overall	
CG400	Grading & Drainage Area A	
CG401	Grading & Drainage Area B	
CG402	Grading & Drainage Area C	
CG403	Grading & Drainage Offsite	
CD110	Storm Drainage Tables	
CD200	Storm Drainage Plan & Profiles	
CD201	Culvert Crossing Plan & Profile	
CD500	Drainage Details	
CD501	Drainage Details	
CD502	Drainage Details	
LP100	Landscape Plan Overall	
LP401	Landscape Plan Area A	
LP402	Landscape Plan Area B	
LP403	Landscape Plan Area C	
18500		

LP500

Landscape Details

SHEET LIST

		PROJECT TEAM
	PROPERTY OWNER:	MITCHELL MILL ROAD INVESTORS LLC CONTAC KARL BLACKLEY 105 WESTON ESTATES WAY CARY, NC 27513 919-481-3000
	ENGINEER:	AMERICAN ENGINEERING ASSOCIATES-SOUTHEAST, PA CONTACT: JAKOB KLEIN 4020 WESTCHASE BLVD, SUITE 450 RALEIGH, NC 27607
e e le	DEVELOPER:	MITCHELL MILL ROAD INVESTORS LLC CONTAC KARL BLACKLEY 105 WESTON ESTATES WAY CARY, NC 27513 919-481-3000
	SURVEYOR:	WITHERS RAVENEL CONTACT: MATT TIMLIN 115 MACKENAN DRIVE CARY, NC 27511 919-469-3340
	BUFFER/WETLAND:	WITHERS RAVENEL CONTACT: TROY BEASLEY 219 STATION ROAD, STE. 201 WILMINGTON, NC 28405

Sewer Collection / Extension System

standards and specifications of the City's Public Utilities Handbook

Public

Water Distribution / Extension System

ne City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and Construction methods used for this project shall conform to the

standards and specifications of the City's Public Utilities Handbook.

ATTENTION CONTRACTORS

The Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Utilities Inspector at

https://cityworks.raleighnc.gov/pucontractors/New and schedule a Pre-construction meeting prior to beginning any Raleigh Water must be contacted at (919) 996-4540 at least

twenty-four hours prior to beginning any work activity around critical water and sewer infrastructure. Failure to notify the Divisions in advance of beginning

construction, will result in the issuance of monetary fines, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.

Failure to call for Inspection, install a downstream plug, have permitted plans on the jobsite, or any other violation of City of Raleigh Standards will result in a fine and possible exclusion from future work in the City of Raleigh.

ASSOCIATES

ON THE SPECIFIC SITE, NAMED HEREON, DATE AS LISTED, HEREON. AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE O THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES SERVICES OF PROPERLY LICENSEI ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE OF ANOTHER PROJECT IS NOT AUTHORIZE AND MAY BE CONTRARY TO THE LAW.

STIPULATION FOR REUSE

JOB NUMBER:	R1801
CHECKED BY:	
DRAWN BY:	GE,
DATE:	03-03-20
CLIEFT TITLE.	

COVER SHEET

North Carolina 811 811 or 1-800-632-4949 Remote Ticket Entry

*** 3 Days Before Digging **

THE REZONING FOR THIS DEVELOPMENT WAS APPROVED ON 11/19/2019 (MA-19-02) AND AS SUCH, THE PROJECT FALLS UNDER THE GOVERNANCE OF THE 2004 UDO. PLEASE SEE SHEET G002 FOR REZONING AND SPECIAL USE PROJECT SPECIFIC CONDITIONS.

OVERALL SITE DATA

NUMBER

1767-17-5039

17691, 1863

282.73 AC

23.55 AC

R&PUD-CZ

95

550

549

LOWER NEUSE RIVER

NEUSE RIVER

ROLESVILLE

HARRIS CREEK

27-26

C;NSW

VACANT

RESIDENTIAL

4.03

2.10

1.94

9.31 AC

32%

5.64 AC

2,587 SF

2,280 SF

1,250 SF

16.27 AC

GRAYMONT OAKS DR:

50' PUBLIC R/W 27' B-B

1,881 LF

ARMFIELD CREEK PLACE: 50' PUBLIC R/W 27' B-B

1,047 LF

PROVIDED

95 DRIVEWAY

95 GARAGE

48 PARKING

21 + 1 VAN ADA + 2 ADA

TOTAL: 262

UDO SECTION

MA-19-02

MA-19-02

MA-19-02

MA-19-02

SUP 19-01

UDO: 6.2.3.2 (a)

SUP 19-01

TABLE 3.1.2

UDO: 10.1.10 & 6.2.3.2 (d)

2 SPACES PER DWELLING +

0.5 ADDITIONAL SPACES

EVERY BEDROOM OVER 2

PER DWELLING

1 SPACE PER 4 DWELLING

DATA TYPE

DEED BOOK AND PAGE #

TOTAL KALAS FALLS ACREAGE

TOTAL TRACT ACREAGE (INCLUDES R/W DEDICATION AND POSSIBLE

OVERLAP AREA)

ZONING

APPROVED DURING REZONING

APPROVED DURING REZONING

WATERSHED

RIVER BASIN

TOWNSHIP

RECEIVING WATER

STREAM INDEX

CLASSIFICATION

EXISTING USAGE

PROPOSED USAGE

PHASE 5 DENSITY

MAXIMUM DENSITY (5 PHASES)

PROPOSED DENSITY (5 PHASES)

PHASE 5 EXISTING IMPERVIOUS

PHASE 5 PROPOSED IMPERVIOUS

PHASE 5 EXISTING TREE COVERAGE

PHASE 5 TOTAL AREA OF LOTS

PHASE 5 AVERAGE LOT SIZE

MINIMUM TOWNHOME LOT SIZE

PHASE 5 MAXIMUM IMPERVIOUS

PHASE 5 MAXIMUM BUILDING

PHASE 5 LIMITS OF DISTURBANCE

PHASE 5 ROAD DETAILS

REQUIRED

RESIDENT: 238

(95 UNITS @ 3 BEDROOMS PER UNIT

95 X 2 = 190 + 95 X .5 = 48)

GUEST: 23 + 1 ADA

(95 UNITS/4)

TOTAL: 262

PHASE 5 AREA IN PUBLIC R/W

TOWNHOME MINIMUM BUILDING SETBACKS:

TOWNHOME MINIMUM BUILDING SEPERATIONS:

FRONT SETBACK | 15'

REAR SETBACK 15'

SIDE SEPARATION | 16'

HEIGHT 35

PARKING COUNT

REAR SEPARATION 25

NUMBER OF TOWNHOMES

TOTAL NUMBER OF LOTS

PROVIDED

PROVIDED

EROSION AND SEDIMENT CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT APPROVED

EROSION CONTROL

S-XXXX STORMWATER MGMT.

S-XXXX

FLOOD STUDY

———— DATE xx/xx/20

ENVIRONMENTAL CONSULTANT SIGNATURE

http://nc811.org/remoteticketentry

SHEET NO.: G-001

MA-19-02 REZONING CONDITIONS:

ROLESVILLE ROAD AT SITE DRIVEWAY A:

SUP 19-01 SPECIAL USE PERMIT CONDITIONS:

- a. THE MAXIMUM DEVELOPMENT DENSITY SHALL BE 2.1 DWELLING UNITS PER ACRE
- b.PERMITTED USES SHALL ONLY INCLUDE SINGLE FAMILY DETACHED DWELLINGS, TOWNHOUSES, NEIGHBORHOOD RECREATION CENTER, OPEN SPACE, GREENWAY, AND ASSOCIATED ACCESSORY USES
- c. TOTAL NUMBER OF DWELLING UNITS ON THE SUBJECT PROPERTY SHALL NOT EXCEED 550, AND NOT MORE THAN 95 OF THESE DWELLING UNITS ARE PERMITTED TO BE TOWNHOMES.
- d. THE MINIMUM LOT SIZE FOR SINGLE FAMILY DETACHED DWELLINGS SHALL BE 6,000 SQUARE FEET, WITH A MINIMUM LOT WIDTH OF 50'.
- e. DEVELOPMENT OF THE SUBJECT PROPERTY SHALL INCLUDE 250% OF THE UDO REQUIRED OPEN SPACE, AS SUCH REQUIREMENTS EXIST AS OF THE DATE OF THIS ZONING.
- f. A TYPE A BUFFER (WITH BERM, IF PERMITTED) WILL BE INSTALLED AND MAINTAINED ALONG THE SUBJECT PROPERTY'S FRONTAGE ALONG ROLESVILLE ROAD.
- g. UP TO 460' OF PRIVACY FENCE AND UP TO 400' OF TYPE A BUFFER SHALL BE INSTALLED AND MAINTAINED ALONG THE COMMON PROPERTY LINE OF THE STALLINGS PROPERTY (WAKE COUNTY PIN 1768-30-6321) ON BOTH SIDES OF DRESDEN DRIVE AND ALONG THE EXISTING POND DAM. THE FENCE WITHIN THE POND AREA SHALL BE PLACED SO THAT THERE IS NO IMPACT TO THE EXISTING STATE MANDATED BUFFER.
- H THE EXISTING DRIVEWAY THROUGH THE SUBJECT PROPERTY (FROM ROLESVILLE ROAD) THAT SERVES AS ACCESS FOR THE STALLINGS TRACT (WAKE COUNTY PIN 1768-30-6321) AND WOODLIEF TRACT (1768-30-8414) SHALL BE REALIGNED BY THE DEVELOPER TO ALLOW CONNECTION, AND AT NO TIME SHALL ACCESS TO THOSE PROPERTIES BE BLOCKED WITHOUT PROVIDING FOR ANOTHER MEANS OF INGRESS/EGRESS.
- i. ALL HOMES CONSTRUCTED ON THE PROPERTY SHALL INCLUDE EITHER CRAWL SPACE FOUNDATIONS OR STEM WALL FOUNDATIONS. ANY STEM WALL FOUNDATIONS SHALL HAVE A BRICK VENEER AROUND THE FULL
- TRANSPORTATION IMPROVEMENTS: TO ADDRESS TRANSPORTATION IMPACTS REASONABLY EXPECTED TO BE GENERATED BY THE DEVELOPMENT, PRIOR' TO REQUEST FOR THE FIRST BUILDING PERMIT FOR THE PROPERTY, THE FOLLOWING IMPROVEMENTS SHALL BE CONSTRUCTED AND INSTALLED AS RECOMMENDED BY THE KALAS/WATKINS FAMILY PI'OPEI'TY TIA DATED AUGUST 24, 2019, ON FILE WITH THE TOWN OF ROLESVILLE:
- i. CONSTRUCT DRIVEWAY A AS A FULL-MOVEMENT ACCESS POINT ONTO ROLESVILLE ROAD WITH ONE INGRESS LANE AND ONE EGRESS LANE;
- ii. CONSTRUCT AN EXCLUSIVE EASTBOUND RIGHT-TURN LANE WITH 100 FEET OF FULL- WIDTH STORAGE AND
- APPROPRIATE TAPES ON DRIVEWAY A; iii.CONSTRUCT AN EXCLUSIVE NORTHBOUND LEFT-TURN LANE WITH 100 FEET OF FULL- WIDTH STORAGE AND APPROPRIATE TAPER' ON ROLESVILLE ROAD: AND
- iv.CONSTRUCT AN EXCLUSIVE SOUTHBOUND RIGHT-TURN LANE WITH 100 FEET OF FULL-WIDTH STORAGE AND APPROPRIATE TAPER ON ROLESVILLE ROAD.

- k. TRANSPORTATION IMPROVEMENTS: TO ADDRESS TRANSPORTATION IMPACTS REASONABLY EXPECTED TO BE GENERATED BY THE DEVELOPMENT, PRIOR TO REQUEST FOR THE FIRST BUILDING PERMIT FOR THE PROPERTY, THE FOLLOWING IMPROVEMENTS SHALL BE CONSTRUCTED AND INSTALLED AS RECOMMENDED BY THE KALAS/WATKINS FAMILY PROPERTY TIA DATED AUGUST 24, 2019, ON FILE WITH THE TOWN OF ROLESVILLE: ROLESVILLE ROAD AT SITE DRIVEWAY B:
- i. CONSTRUCT DRIVEWAY B AS A FULL-MOVEMENT ACCESS POINT ONTO ROLESVILLE ROAD WITH ONE INGRESS LANE AND ONE EGRESS LANE;
- ii. CONSTRUCT AN EXCLUSIVE NORTHBOUND LEFT-TURN LANE WITH 100 FEET OF FULL- WIDTH STORAGE AND APPROPRIATE TAPER ON ROLESVILLE ROAD; AND
- iii.CONSTRUCT AN EXCLUSIVE SOUTHBOUND RIGHT-TURN LANE WITH 50 FEET OF FULL- WIDTH STORAGE AND APPROPRIATE TAPER ON ROLESVILLE ROAD.
- TRANSPORTATION IMPROVEMENTS: TO ADDRESS TRANSPORTATION IMPACTS REASONABLY EXPECTED TO BE GENERATED BY THE DEVELOPMENT, PRIOR TO REQUEST FOR THE FIRST BUILDING PERMIT FOR THE PROPERTY THE FOLLOWING IMPROVEMENTS SHALL BE CONSTRUCTED AND INSTALLED AS RECOMMENDED BY THE KALAS/WATKINS FAMILY PROPERTY TIA DATED AUGUST 24, 2019, ON FILE WITH THE TOWN OF ROLESVILLE:

ROLESVILLE ROAD AT SITE DRIVEWAY C:

- i. CONSTRUCT DRIVEWAY C AS A FULL-MOVEMENT ACCESS POINT ONTO ROLESVILLE ROAD WITH ONE ING3'ESS LANE AND ONE EGRESS LANE;
- ii. CONSTRUCT AN EXCLUSIVE EASTBOUND RIGHT-TURN LANE WITH 100 FEET OF FULL- WIDTH STORAGE AND APPROPRIATE TAPER' ON DRIVEWAY C;
- iii.CONSTRUCT AN EXCLUSIVE NORTHBOUND LEFT-TURN LANE WITH 100 FEET OF FULL- WIDTH STORAGE AND APPROPRIATE TAPER ON ROLESVILLE ROAD; AND
- iv.CONSTRUCT AN EXCLUSIVE SOUTHBOUND RIGHT-TURN LANE WITH 100 FEET OF FULL-WIDTH STORAGE AND APPROPRIATE TAPER ON ROLESVILLE ROAD.
- m. TRANSPORTATION IMPROVEMENTS: TO ADDRESS TRANSPORTATION IMPACTS I'EASONAB1Y EXPECTED TO BE GENERATED BY THE DEVELOPMENT, THE PROPERTY OWNER OR DEVELOPER WILL PROVIDE FOR THE FOLLOWING IMPROVEMENT IN ACCORDANCE WITH AND SUBJECT TO THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) AND TOWN OF ROLESVILLE (TOWN) APPROVAL AND STANDARDS AND SPECIFICATIONS AS RECOMMENDED BY THE KALAS/WATKINS FAMILY PROPERTY TIA DATED AUGUST 24, 2019, ON FILE WITH THE TOWN OF ROLESVILLE IN ACCORDANCE WITH THE FOLLOWING:
- ROLESVILLE ROAD AT MITCHELL MILL ROAD
- i. THE TOWN MAY PROVIDE A FULL SIGNAL WARRANT ANALYSIS ("TOWN WARRANT ANALYSIS") PRIOR' TO APPROVAL OF THE PLAT CONTAINING THE 100" LOT TO BE DEVELOPED UPON THE SUBJECT PROPERTY. IF A SIGNAL IS WARRANTED AS PART OF THE TOWN WARRANT ANALYSIS, TRAFFIC SIGNAL EASEMENTS TO ACCOMMODATE TRAFFIC SIGNAL EQUIPMENT SHALL BE PROVIDED BY THE OWNER OR DEVELOPER TO THE

EXTENT SUCH PROPERTY IS OWNED AND CONTROLLED BY THE OWNER OR DEVELOPER AND, WITHIN 12 MONTHS OF BEING WARRANTED AND APPROVED BY THE TOWN OF ROLESVILLE AND THE NCDOT. THE PROPERTY OWNER OR DEVELOPER SHALL DESIGN. CONSTRUCT AND INSTALL A TRAFFIC SIGNAL SUBJECT TO FINAL APPROVAL BY THE TOWN OF ROLESVILLE AND THE NCDOT.

IF THE SIGNAL IS NOT WARRANTED BY THE TOWN WARRANT ANALYSIS, THE OWNER OR DEVELOPER SHALL PROVIDE A FULL SIGNAL WARRANT ANALYSIS ("OWNER' WARRANT ANALYSIS") PRIOR' TO APPROVAL OF THE PLAT CONTAINING THE 300" LOT TO BE DEVELOPED UPON THE SUBJECT PROPERTY. IF A SIGNAL IS WARRANTED AS PART OF THE OWNER WARRANT ANALYSIS, TRAFFIC SIGNAL EASEMENTS TO ACCOMMODATE TRAFFIC SIGNAL EQUIPMENT SHALL BE PROVIDED BY THE OWNER OR DEVELOPER TO THE EXTENT SUCH PROPERTY IS OWNED AND CONTI'O1LED BY THE OWNER OR DEVELOPED AND, WITHIN 12 MONTHS OF BEING WARRANTED AND APPROVED BY THE TOWN OF ROLESVILLE AND THE NCDOT, THE PROPERTY OWNER' OR' DEVELOPED SHALL DESIGN, CONSTRUCT AND INSTALL A TRAFFIC SIGNAL SUBJECT TO FINAL APPI'OVA1 BY THE TOWN OF ROLESVILLE AND THE NCDOT.

IF THE SIGNAL IS NOT WARRANTED BY THE OWNER WARRANT ANALYSIS, THE TOWN MAY PROVIDE A FINAL FULL SIGNAL WARRANT ANALYSIS ("FINAL WARRANT ANALYSIS") PRIOR TO APPROVAL OF THE PLAT CONTAINING THE 450" LOT TO BE DEVELOPED ON THE SUBJECT P1'OPERTY. IF A SIGNAL IS WARRANTED AS PART OF THE FINAL WARRANT ANALYSIS, TRAFFIC SIGNAL EASEMENTS TO ACCOMMODATE TRAFFIC SIGNAL EQUIPMENT SHALL BE PROVIDED BY THE OWNER OR DEVELOPER TO THE EXTENT SUCH PROPERTY IS OWNED AND CONTROLLED BY THE OWNER OR DEVELOPER AND, WITHIN 12 MONTHS OF BEING WARRANTED AND APPROVED BY THE TOWN OF ROLESVILLE AND THE NCDOT, THE PROPERTY OWNER OR DEVELOPER SHALL DESIGN, CONSTRUCT AND INSTALL A TRAFFIC SIGNAL SUBJECT TO FINAL APPROVAL BY THE TOWN OF ROLESVILLE AND THE NCDOT.

ALL TRAFFIC SIGNALS TO BE INSTALLED SHALL BE CONSTRUCTED WITH STEEL POLES WITH MAST ARMS APPROVED BY THE TOWN AND NCDOT.

n. TO ADDRESS CONCERNS RELATED TO THE TIMING OF FUTURE ROLESVILLE ROAD WIDENING, SPECIFICALLY AS IT RELATES TO THAT PORTION OF ROLESVILLE ROAD FRONTAGE BETWEEN THE NORTHERN AND SOUTHERN BOUNDARIES OF THE SUBJECT PROPERTY THAT IS NOT PART OF THIS APPLICATION (THE "ROLESVILLE ROAD RIGHT-OF-WAY GAP"), THE DEVELOPER SHALL WIDEN THE ROLESVILLE ROAD RIGHT-OF-WAY GAP TO ONE-HALF OF ITS ULTIMATE SECTION. DEVELOPER'S OBLIGATIONS HEREUNDER ARE SUBJECT TO NCDOT APPROVAL, AND THERE BEING SUFFICIENT RIGHT-OF-WAY (AND ASSOCIATED EASEMENTS) FOR SUCH IMPROVEMENTS AT THE TIME THE DEVELOPER IS PERFORMING ITS OTHER ROADWAY WIDENING OBLIGATIONS FOR THE SUBJECT PROPERTY.

UNIT OR A TOWNHOUSE GARAGE MAY BE SET BACK EIGHTEEN FEET (18') FROM THE BACK OF CURB.

- c. NO TOWNHOUSE STRUCTURE MAY EXCEED SIX UNITS.
- d. AT LEAST ONE VOLLEYBALL COURT SHALL BE BUILT AT THE SAME TIME THAT THE PUBLIC GREENWAY IS CONSTRUCTED.
- e. THE BACK OF A TOWNHOUSE STRUCTURE SHALL NOT BE CLOSER THAN 25' TO ANOTHER TOWNHOUSE STRUCTURE.
- f. SIDE SETBACKS BETWEEN STRUCTURES SHALL BE NO LESS THAN 16'.
- g. GARAGES AND GARAGE DOORS MAY BE SINGLE OR DOUBLE.

ALL ZONING CONDITIONS ATTACHED TO THE RESIDENTIAL PLANNED UNIT DEVELOPMENT CONDITIONAL USE ZONING DISTRICT (R&PUD-CZ) AS APPROVED BY CASE: MA 19-02 SHALL COMPLY WITH THE PUD MASTER PLAN.

- i. WITH RESPECT TO THE ZONING CONDITION RELATED TO THE TRAFFIC SIGNAL, IF A SIGNAL IS FOUND TO BE WARRANTED BUT THE TOWN DESIRES A ROUNDABOUT OR TRAFFIC FACILITY OTHER THAN A SIGNAL TO ADDRESS THE INTERSECTION AT MITCHELL MILL ROAD AND ROLESVILLE ROAD, THE DEVELOPER AGREES TO CONTRIBUTE A PAYMENT-IN-LIEU EQUAL TO THE COST OF CONSTRUCTION OF THE SIGNAL TO THE TOWN FOR THE ALTERNATE TRAFFIC FACILITY. THE TOWN'S ACCEPTANCE OF SUCH PAYMENT-IN-LIEU SHALL BE DEEMED A COMPLETE SATISFACTION OF THE ZONING CONDITION RELATED TO THE TRAFFIC SIGNAL.
- b. THE OWNER /DEVELOPER RESERVES THE RIGHT TO DRAIN THE EXISTING PONDS ON THE PROPERTY IF IT IS DETERMINED THAT REPAIR OR RECONSTRUCTION ARE NOT FEASIBLE OF ANY OF THE PONDS OR WILL BE UNSAFE FOR THE SURROUNDING AREA.
- c. TO THE EXTENT POSSIBLE, THE DEVELOPER SHALL STRIPE ON-STREET PARKING SPACES WITHIN THE PUBLIC RIGHT-OF-WAY TO ALLOW FOR CONVENIENT ACCESS TO THE PUBLIC GREEN WAY

CONDITIONS FOR SINGLE FAMILY RESIDENTIAL:

- a. GENERAL ARCHITECTURAL REQUIREMENTS OF THE NEIGHBORHOOD WILL BE GOVERNED BY RECORDED CONDITIONS, COVENANTS AND RESTRICTIONS. THE DEVELOPER SHALL SUBMIT A COPY OF THE CONDITIONS, COVENANTS AND RESTRICTIONS TO THE TOWN OF ROLESVILLE TO ALLOW THE TOWN ATTORNEY TO REVIEW THEM BEFORE RECORDATION.
- b. ALL REQUIRED OPEN SPACE AND DRAINAGE EASEMENTS WILL BE MAINTAINED BY THE HOMEOWNERS ASSOCIATION, WITH THE EXCEPTION OF THE PUBLIC GREENWAY.

c. IF UNMARKED HUMAN BURIALS OR HUMAN SKELETAL REMAINS ARE ENCOUNTERED AS A RESULT OF OBSTRUCTION OR

- AGRICULTURAL ACTIVITIES, DISTURBANCE OF THE REMAINS SHALL CEASE IMMEDIATELY AND SHALL NOT RESUME WITHOUT AUTHORIZATION FROM EITHER THE COUNTY MEDICAL EXAMINER OR THE STATE ARCHAEOLOGIST.
- d. AT NO TIME SHALL DEVELOPMENT ACTIVITIES EXCEED THE NOISE STANDARDS SET FOR THE IN ROLESVILLE TOWN CODE

OF ORDINANCES CHAPTER 130.

e. SUBJECT TO THE APPROVAL OF THE UNITED STATES POSTAL SERVICE THE DEVELOPER SHALL PROVIDE AT LEAST TWO MAIL KIOSKS SEPARATED BY AT LEAST 500 LINEAR FEET WITHIN THE SUBDIVISION FOR MAIL SERVICE.

- f. PRIOR TO ISSUANCE OF THE FIRST BUILDING PERMIT FOR ANY PARTICULAR PHASE OF THE DEVELOPMENT, ALL GREENWAYS IN THAT PHASE SHALL BE COMPLETED INCLUDING DEDICATION OF A THIRTY-FOOT PUBLIC GREENWAY EASEMENT, CONSTRUCTION OF TEN-FOOT PAVED TRAILS AND ALL APPLICABLE SIGNAGE. ONCE COMPLETED TO THE TOWN'S SATISFACTION THE TOWN WILL ACCEPT OWNERSHIP AND MAINTENANCE OF THE PUBLIC GREENWAY. THIS CONDITION MAY BE SATISFIED BY POSTING A SURETY IN THE AMOUNT OF 125% COST OF THE INFRASTRUCTURE IMPROVEMENT BEING DEFERRED.
- g. SIDEWALKS TO RESIDENCES MAY EXTEND FROM THE RESIDENTIAL DRIVEWAYS OR FROM PUBLIC SIDEWALKS. IT IS NOT REQUIRED THAT RESIDENTIAL WALKS CONNECT TO PUBLIC SIDEWALKS.
- h. ONSITE AMENITIES TO INCLUDE A COMMUNITY SWIMMING POOL AND PLAYGROUND AREA SHALL BE PROVIDED PRIOR TO THE ISSUANCE OF THE 50TH BUILDING PERMIT IN PHASE II. THE AMENITY SITE IS SUBJECT TO FURTHER REVIEW AND APPROVAL BY THE TOWN THROUGH THE SITE PLAN REVIEW PROCESS.
- CUL-DE-SAC LENGTH MAY EXCEED 250' DUE TO TOPOGRAPHY AND STREAM BUFFERS OF THE SITE CONDITIONS.
- j. GARAGES MAY FACE THE STREET. k. TWO-CAR GARAGE DOORS MAY BE SINGLE OR DOUBLE.
- I. DEVELOPMENT IS NOT REQUIRED TO BE IN SEQUENTIAL PHASES.
- m. BECAUSE OF EXISTING DIFFICULT TOPOGRAPHY OF THE SITE, ALLEYS ARE NOT REQUIRED TO SERVE EVERY

CONDITIONS FOR RESIDENTIAL TOWNHOMES

- a. CONDITIONS (A) THROUGH (H) IN PARAGRAPH 2, CONDITION FOR SINGLE-FAMILY RESIDENTIAL SHALL ALSO APPLY TO TOWNHOUSE DEVELOPMENT.
- b. IF PRIVATE STREETS ARE APPROVED WITH THE TOWNHOUSE SITE PLAN, THEN THE FRONT FACADE OF A TOWNHOUSE

STIPULATION FOR REUSE THIS DRAWING WAS PREPARED FOR US ON THE SPECIFIC SITE, NAMED HEREON, CONTEMPORANEOUSLY WITH ITS ISSU

° AMERICAN °

ENGINEERING

ASSOCIATES

SOUTHEAST

C-3881

FOR INFORMATION, ONLY

DATE AS LISTED, HEREON. AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPL ON ANOTHER PROJECT REQUIRES SERVICES OF PROPERLY LICENSEI ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE OF ANOTHER PROJECT IS NOT AUTHORIZE AND MAY BE CONTRARY TO THE LAW.

CONSTRUC

JOB NUMBER: R18011 CHECKED BY: DRAWN BY: 03-03-202

SHEET TITLE:

CONDITIONS OF APPROVA

Carolina *** 3 Days Before Digging * North Carolina 811 811 or 1-800-632-4949 Remote Ticket Entry

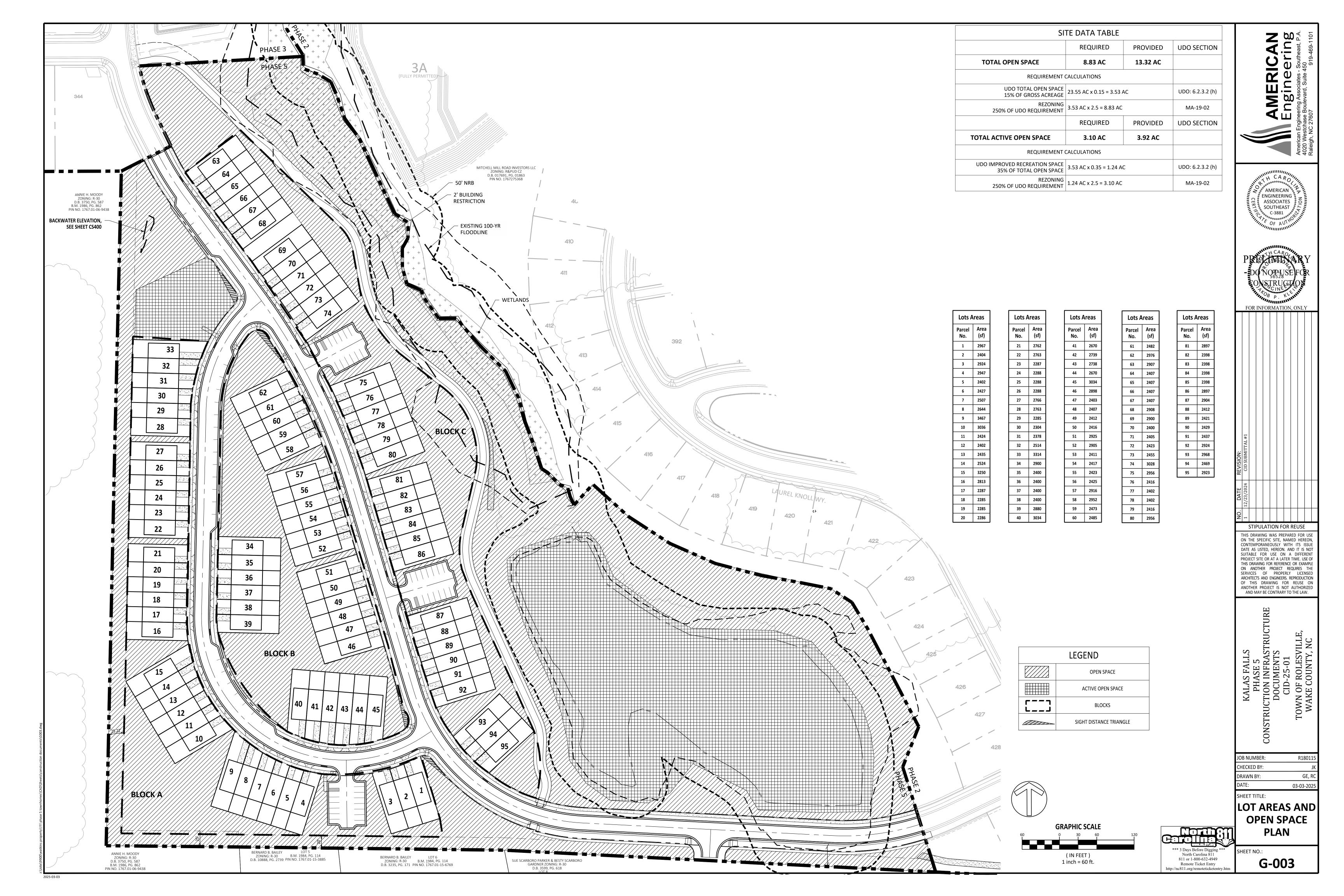
http://nc811.org/remoteticketentry

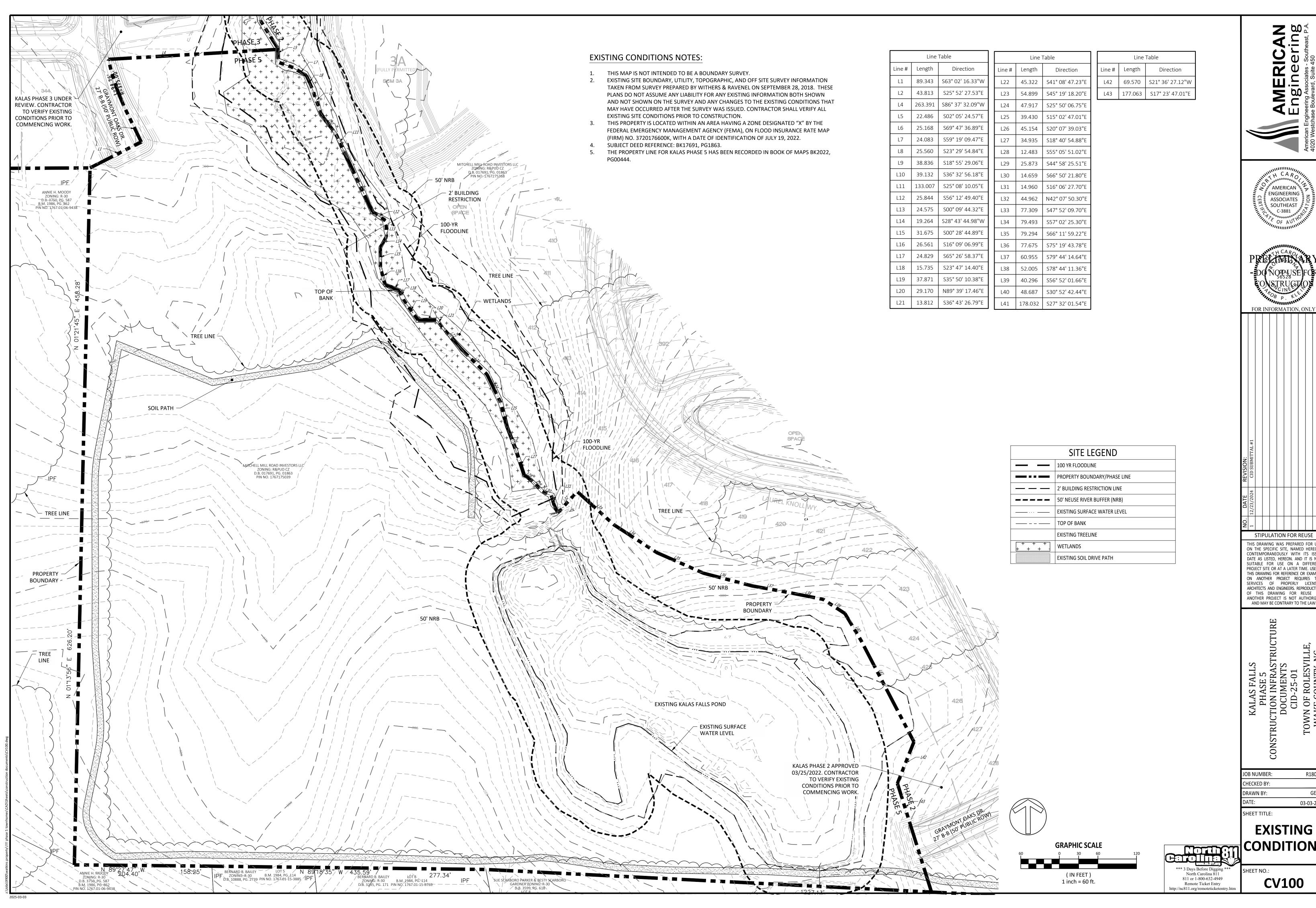
North

SHEET NO.: G-002

GENERAL NOTES:

1. SEE SHEET CV100 FOR PROPERTY LINE INFORMATION FOR EXISTING PARCEL





° AMERICAN ° ENGINEERING ASSOCIATES , 격통 SOUTHEAST

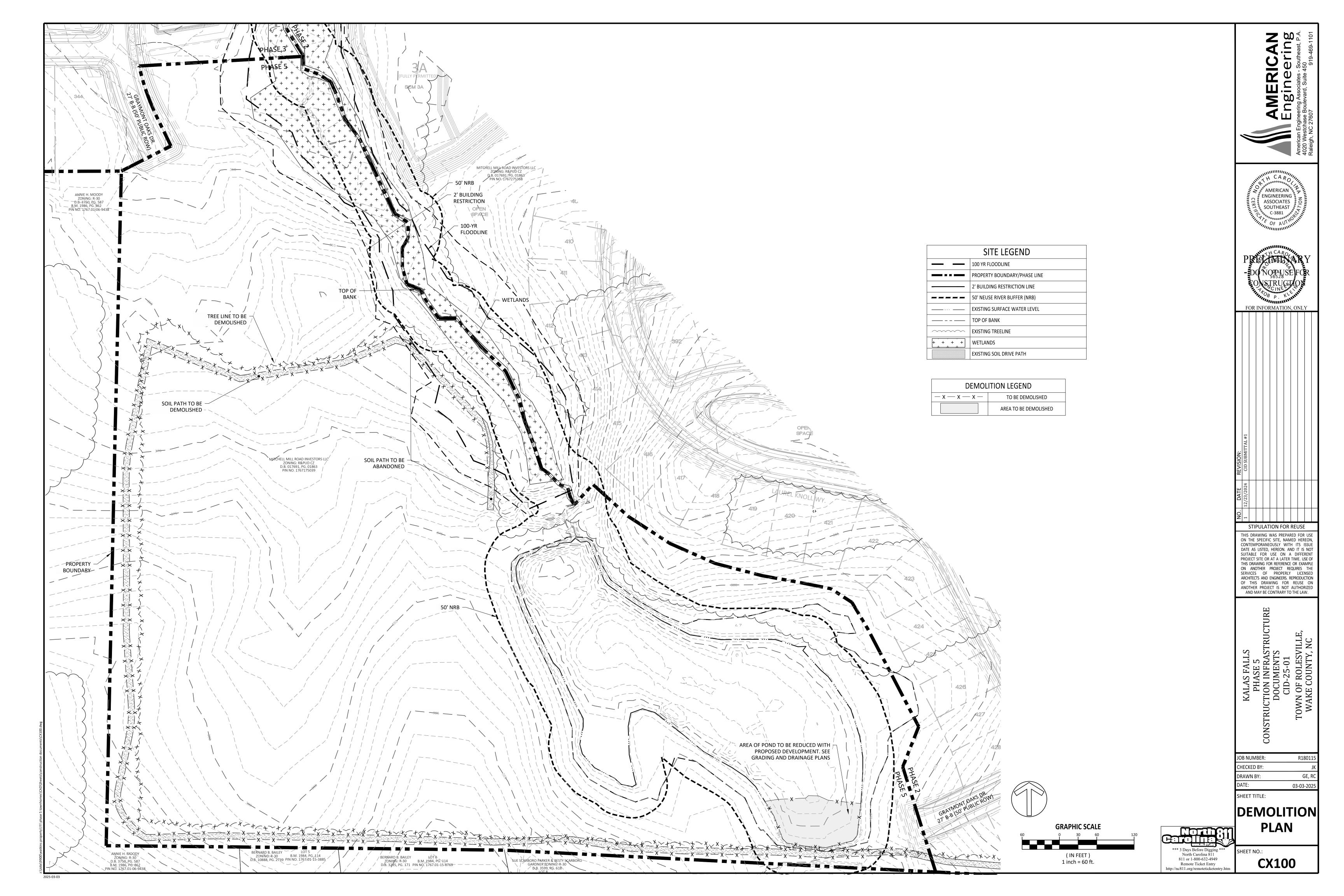


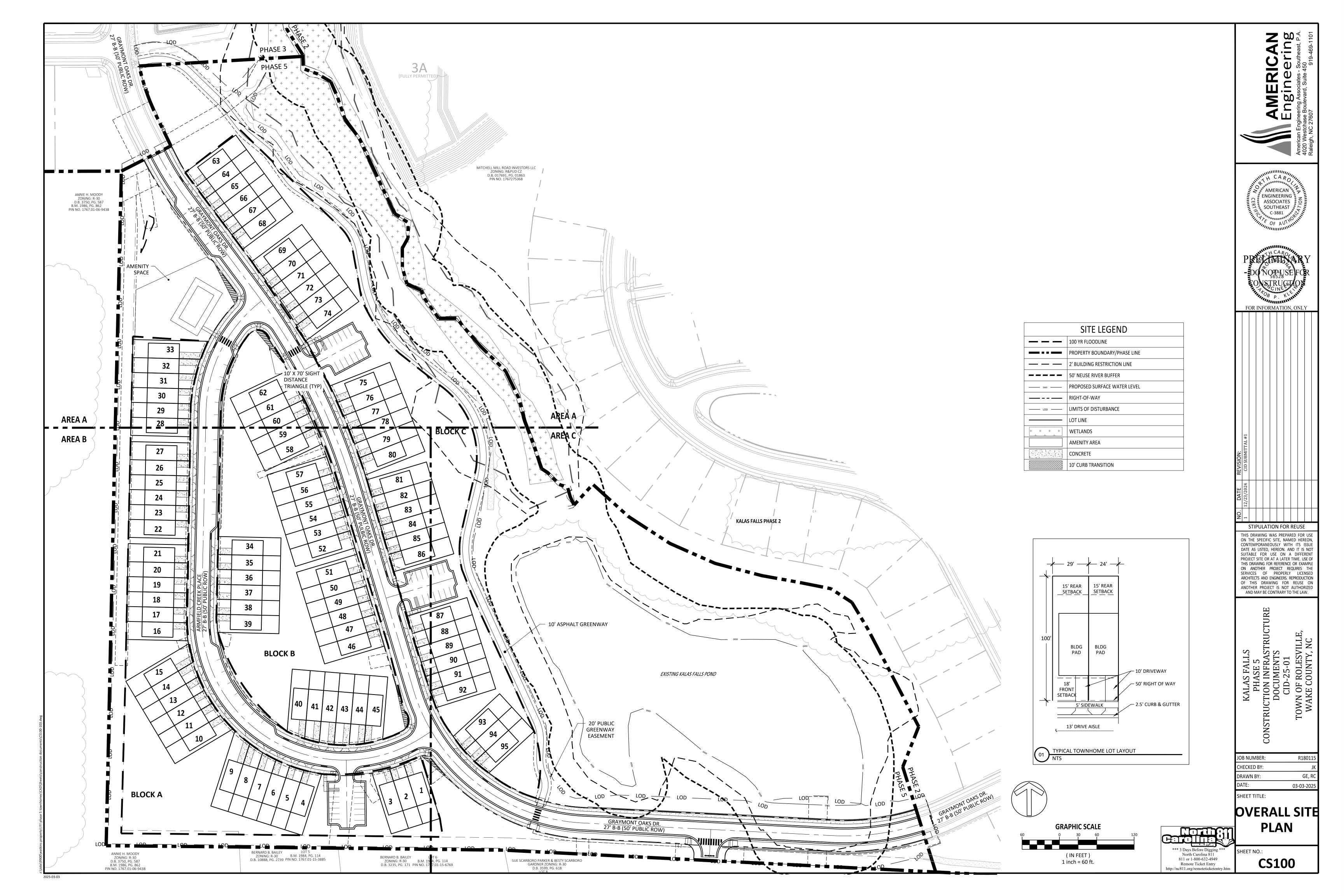
ON THE SPECIFIC SITE, NAMED HEREON, CONTEMPORANEOUSLY WITH ITS ISSUE DATE AS LISTED, HEREON. AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

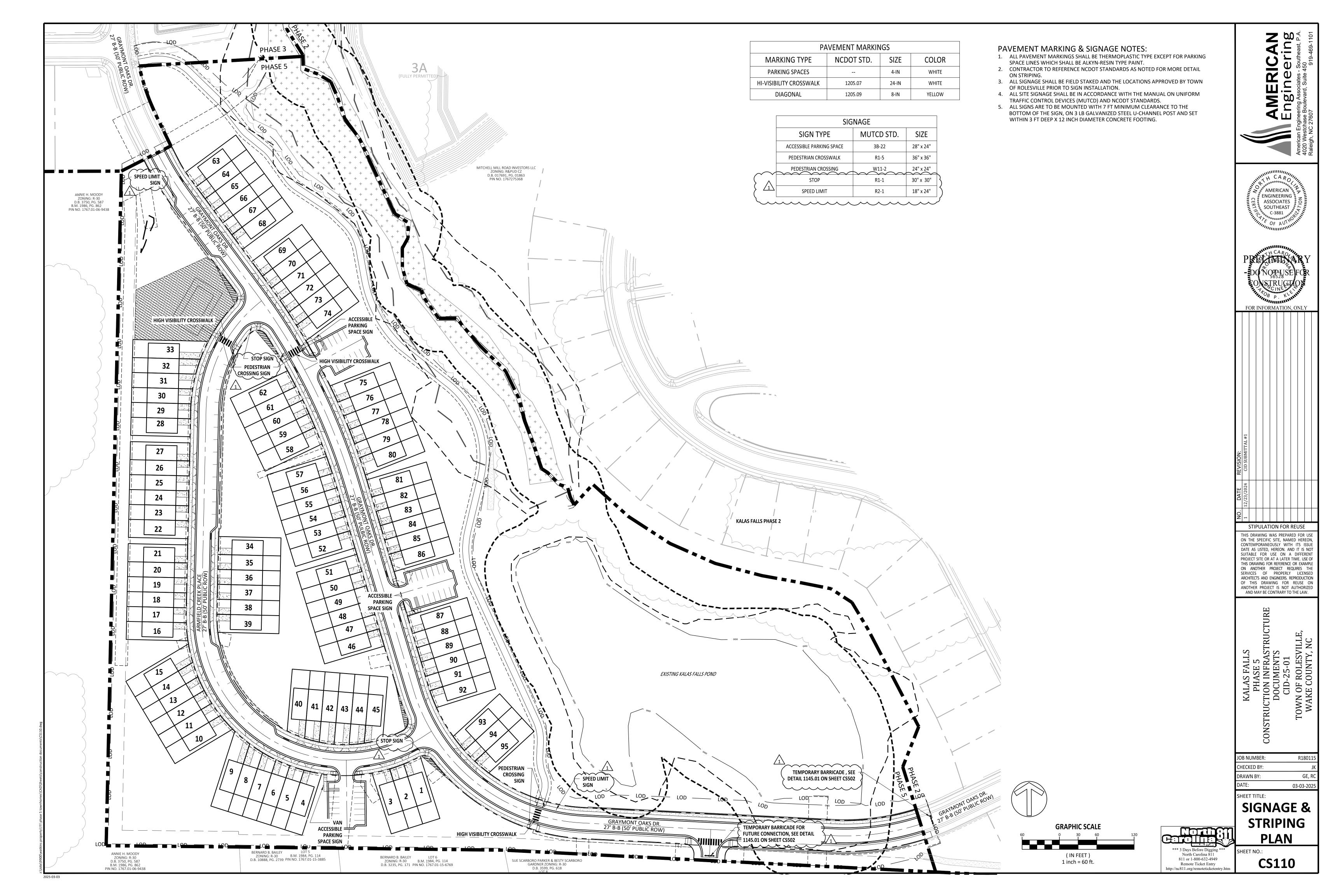
B NUMBER:	R180115
IECKED BY:	JK
RAWN BY:	GE, RC
ATE:	03-03-2025

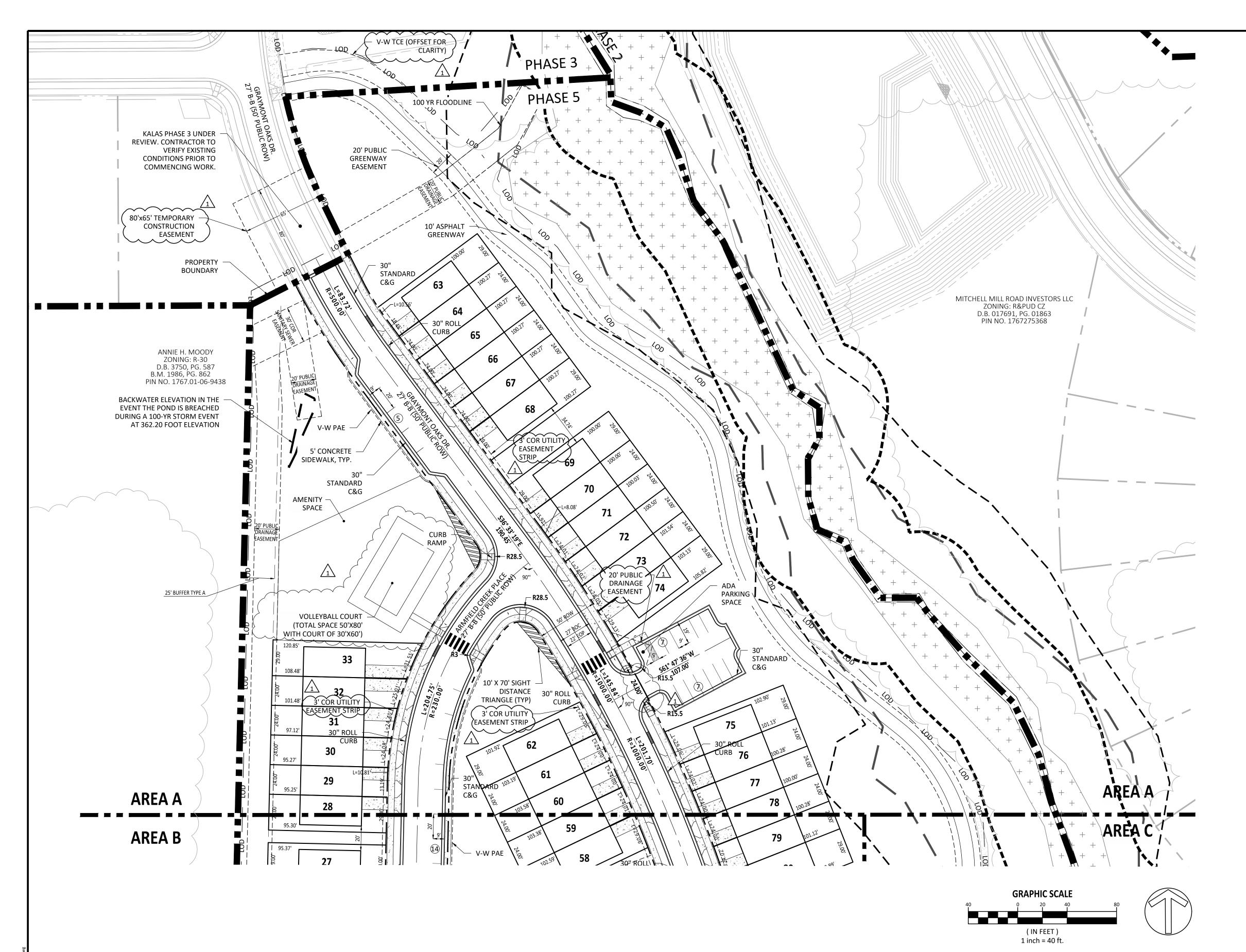
EXISTING CONDITIONS

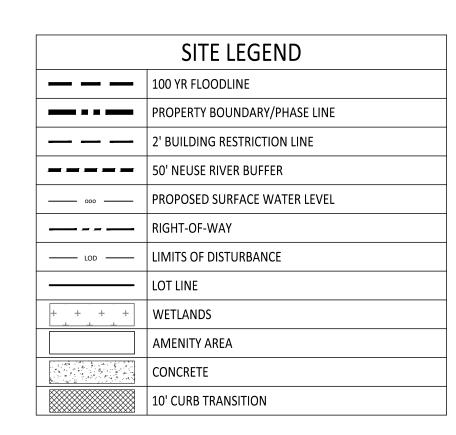
CV100







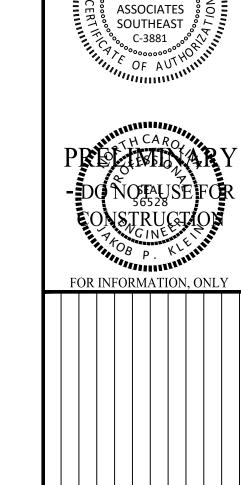




NOTES:

- 1. AMENITY SPACE SIGNIFIED ON THIS PLAN SHEET IS TO CONTAIN AT LEAST ONE (1) VOLLEYBALL COURT AS CONDITIONED IN SUP 19-01 DATED JANUARY 7, 2020. TO BE CONSTRUCTED AT THE SAME TIME AS THE PUBLIC GREENWAY.
- 2. V-W IS VARIABLE WIDTH (APPLICABLE TO EASEMENTS).
- 3. PAE IS PEDESTRIAN ACCESS EASEMENT.
- 4. TCE IS TEMPORARY CONSTRUCTION EASEMENT.

5. COR IS CITY OF RALEIGH.



° AMERICAN ° ENGINEERING

STIPULATION FOR REUSE THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE, NAMED HEREON, CONTEMPORANEOUSLY WITH ITS ISSUE DATE AS LISTED, HEREON. AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE THIS DRAWING FOR REFERENCE OR EXAMPLE
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KALAS FALLS
PHASE 5
CONSTRUCTION INFRASTRUCTURE
DOCUMENTS
CID-25-01

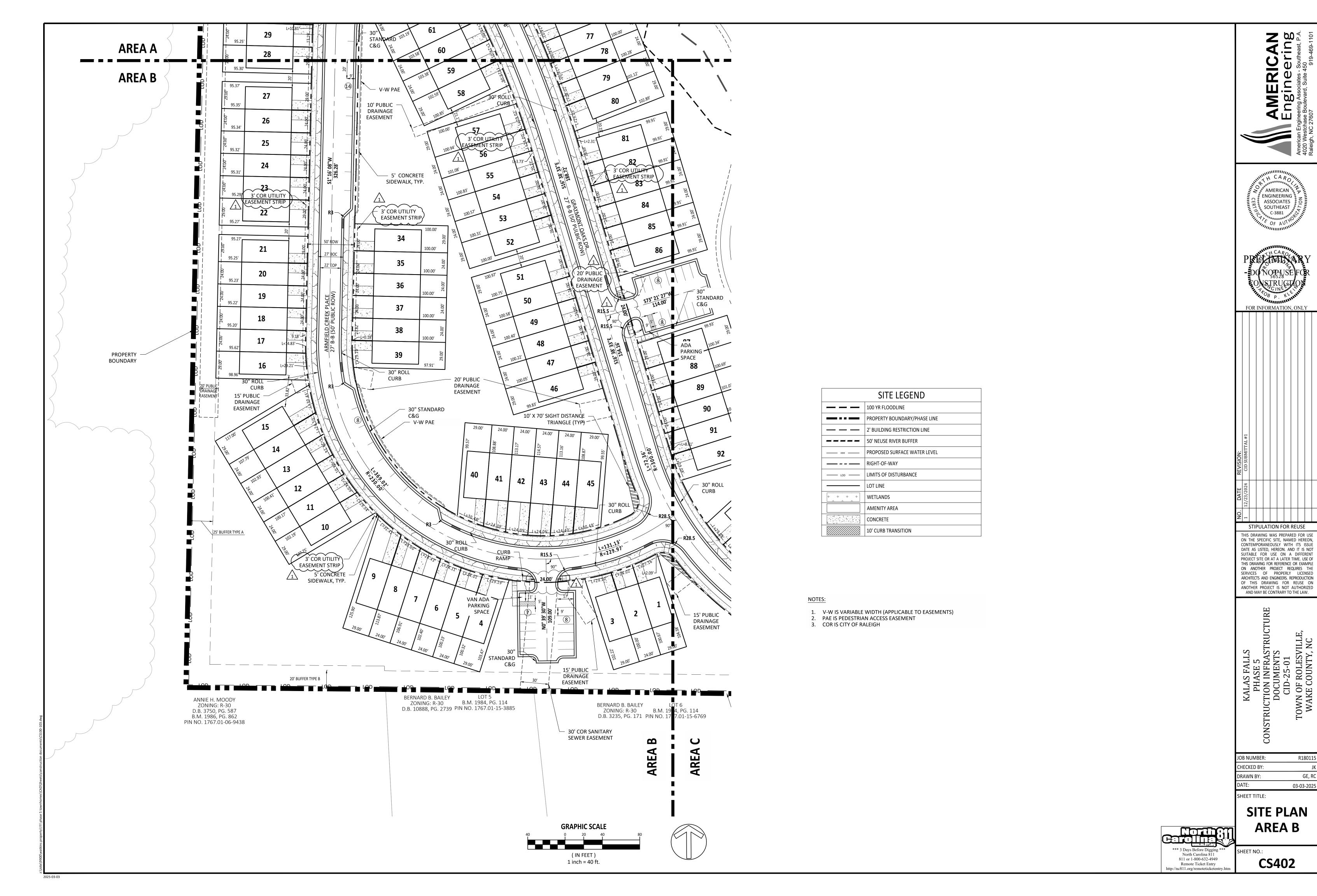
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CHECKED BY:	
DRAWN BY:	GE,
DATE:	03-03-20

SHEET TITLE:

SITE PLAN AREA A

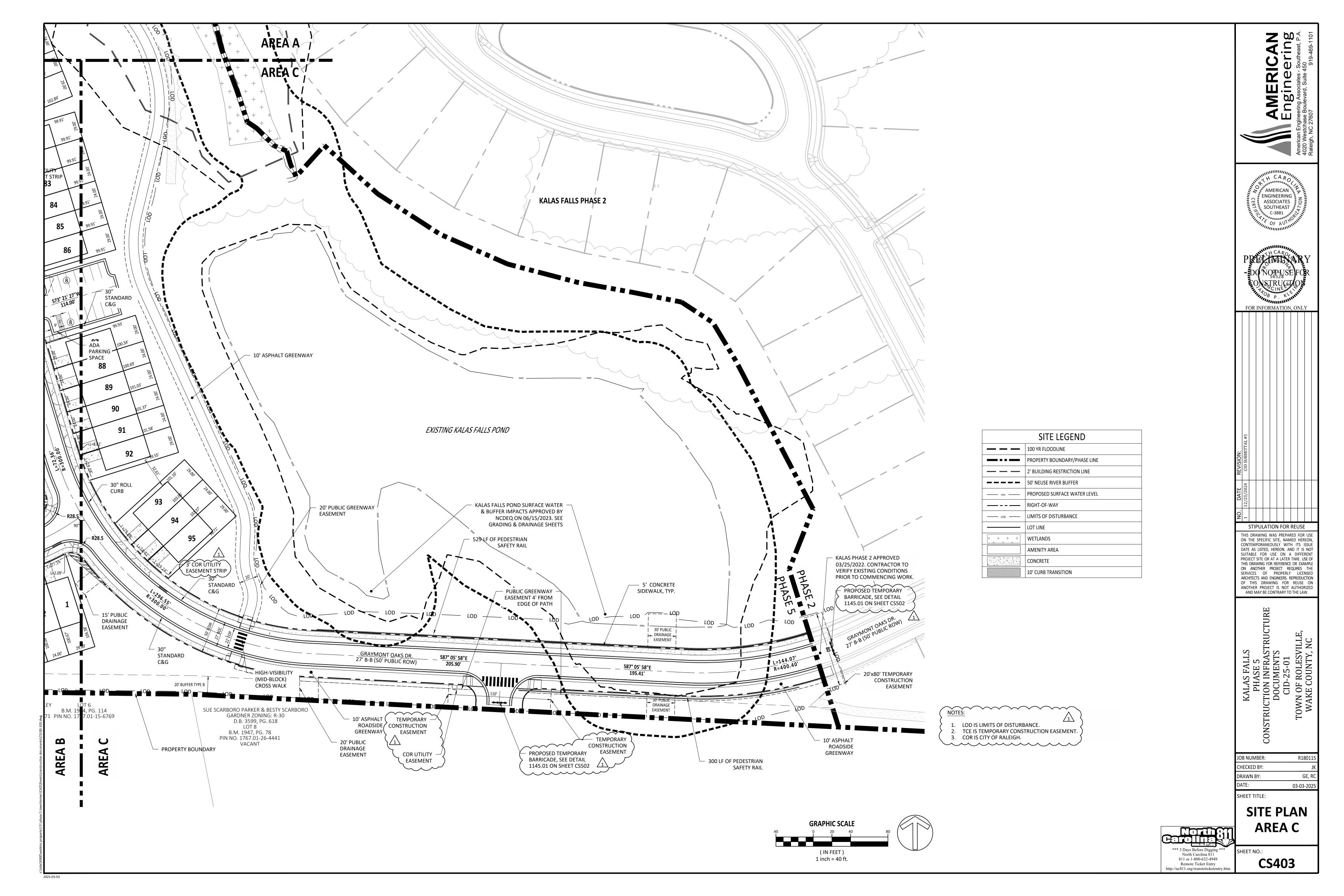
SHEET NO.: **CS401**

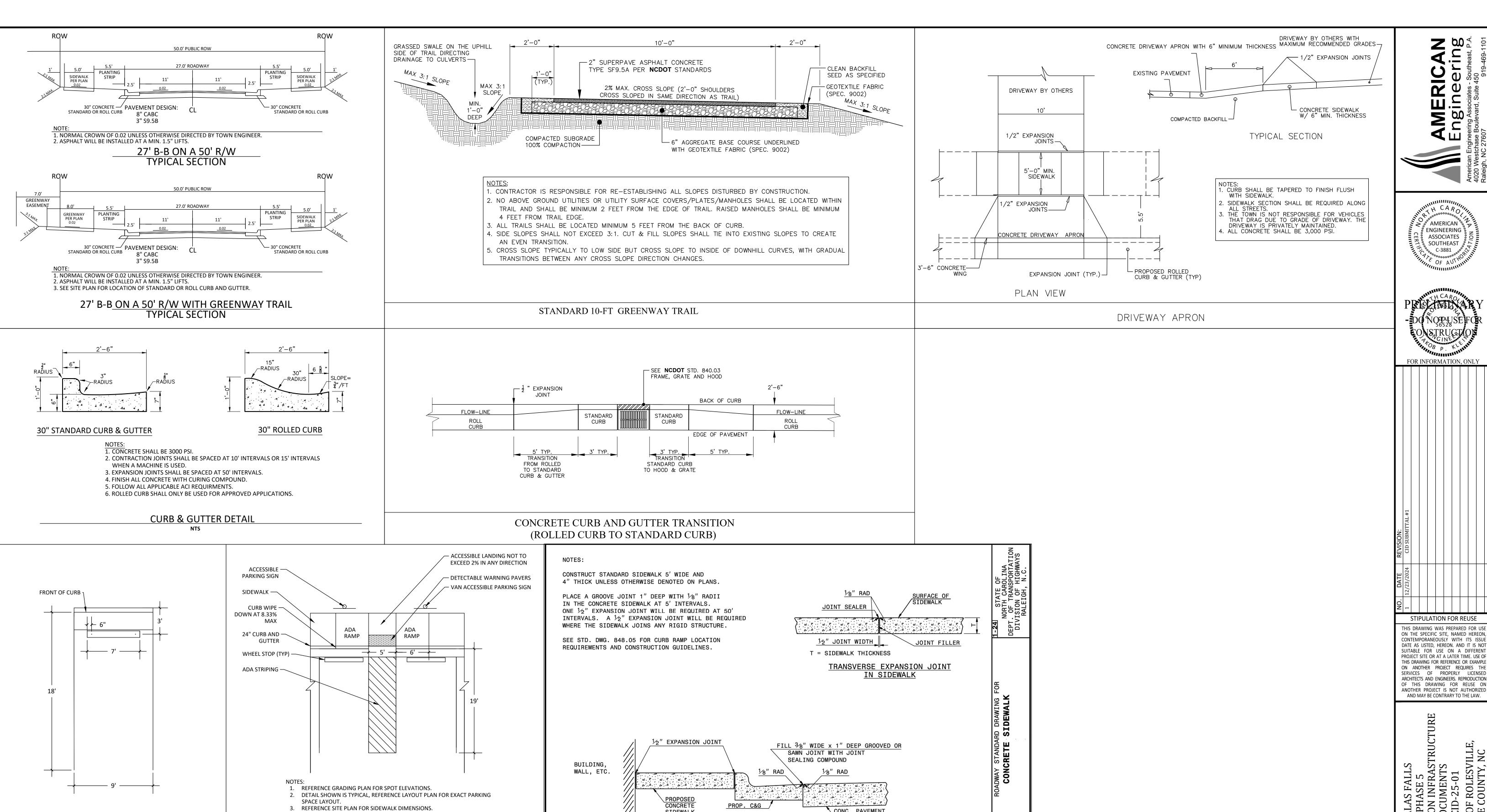
*** 3 Days Before Digging *** North Carolina 811 811 or 1-800-632-4949 Remote Ticket Entry http://nc811.org/remoteticketentry.ht



R180115

03-03-2025





SIDEWALK

DETAILS SHOWING JOINTS IN CONCRETE SIDEWALK

848.01

4. ALL DIMENSIONS ARE FROM FACE OF CURB UNLESS OTHERWISE NOTED.

P-R-14

ADA PARKING

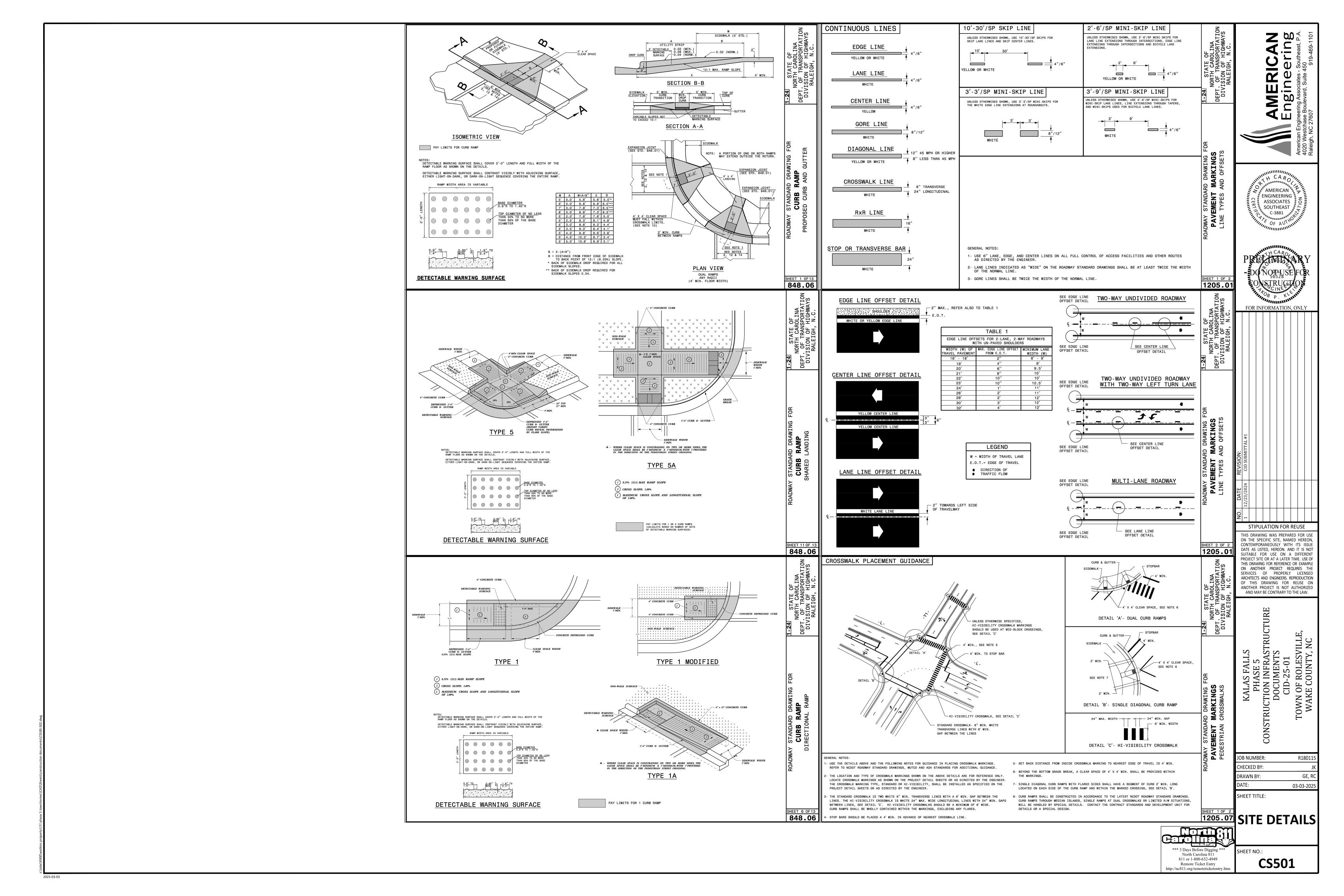
P-R-13

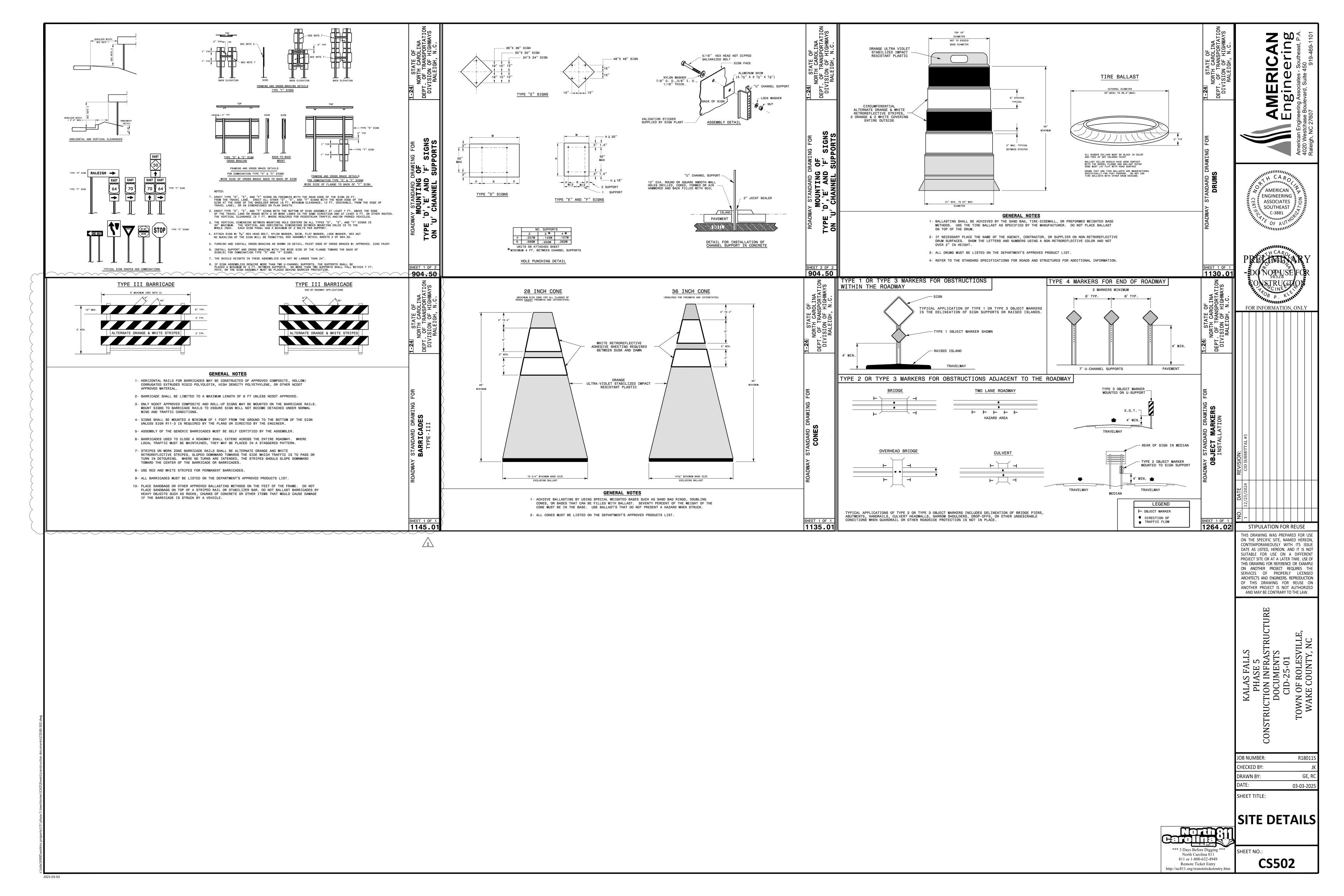
STANDARD PARKING SPACE

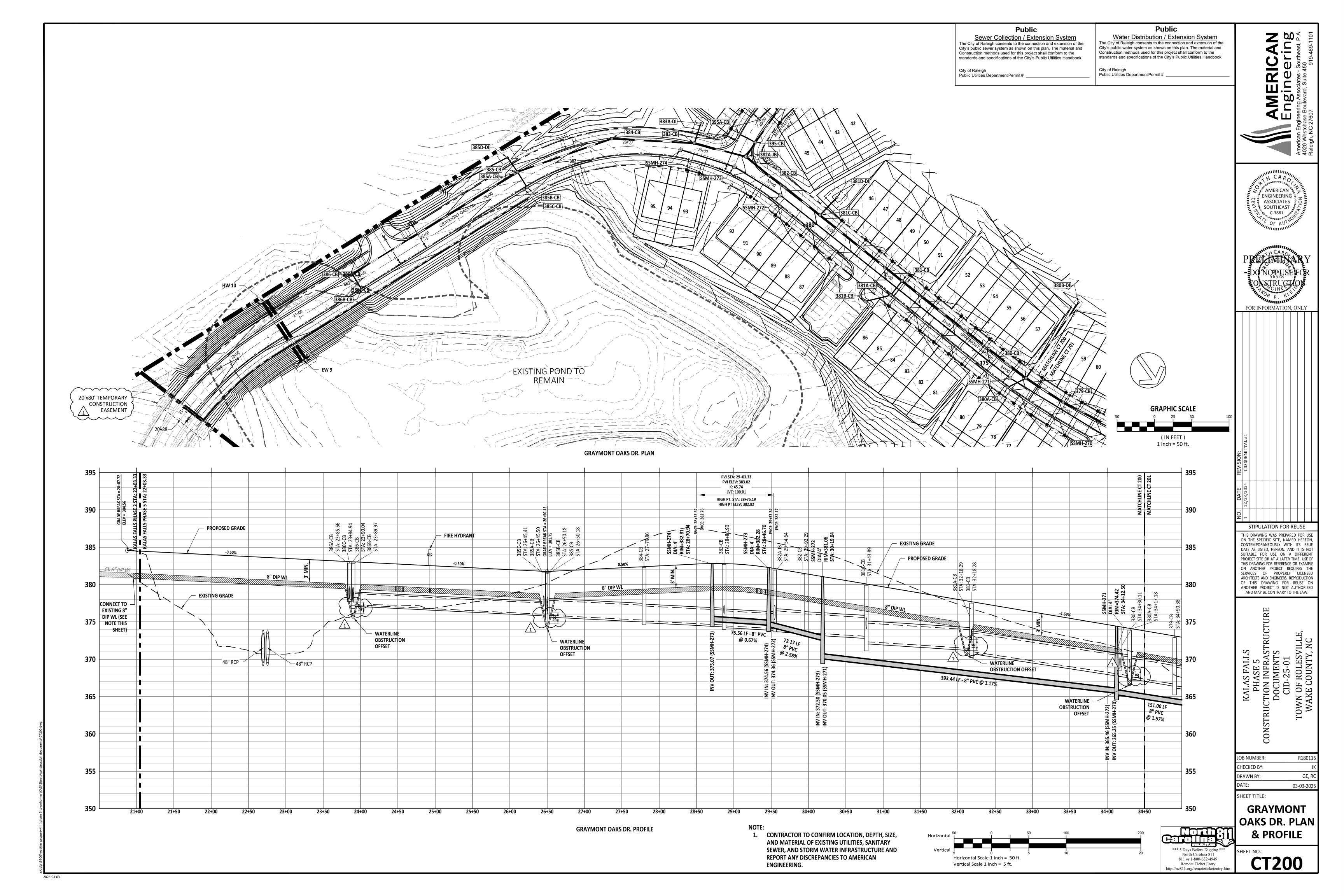
ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW. CONSTRUCTION INF DOCUME CID-25-JOB NUMBER: R18011 CHECKED BY: DRAWN BY: 03-03-202 SHEET TITLE:

SITE DETAILS

*** 3 Days Before Digging ** SHEET NO.: North Carolina 811 811 or 1-800-632-4949 **CS500** Remote Ticket Entry http://nc811.org/remoteticketentry.







Public

Sewer Collection / Extension System The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh Public Utilities DepartmentPermit# _

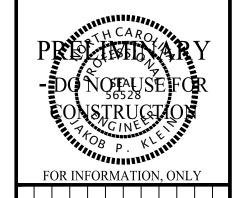
Public

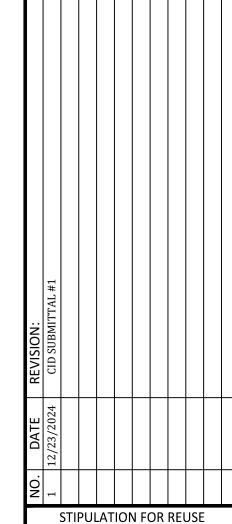
Water Distribution / Extension System The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit# _

SAN Fring

° AMERICAN ° ENGINEERING 会。 ASSOCIATES SOUTHEAST





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KALAS FALLS
PHASE 5
CONSTRUCTION INFRASTRUCTURE
DOCUMENTS
CID-25-01
TOWN OF ROLESVILLE,
WAKE COUNTY, NC

JOB NUMBER: R180115 CHECKED BY: DRAWN BY: 03-03-2025

SHEET TITLE:

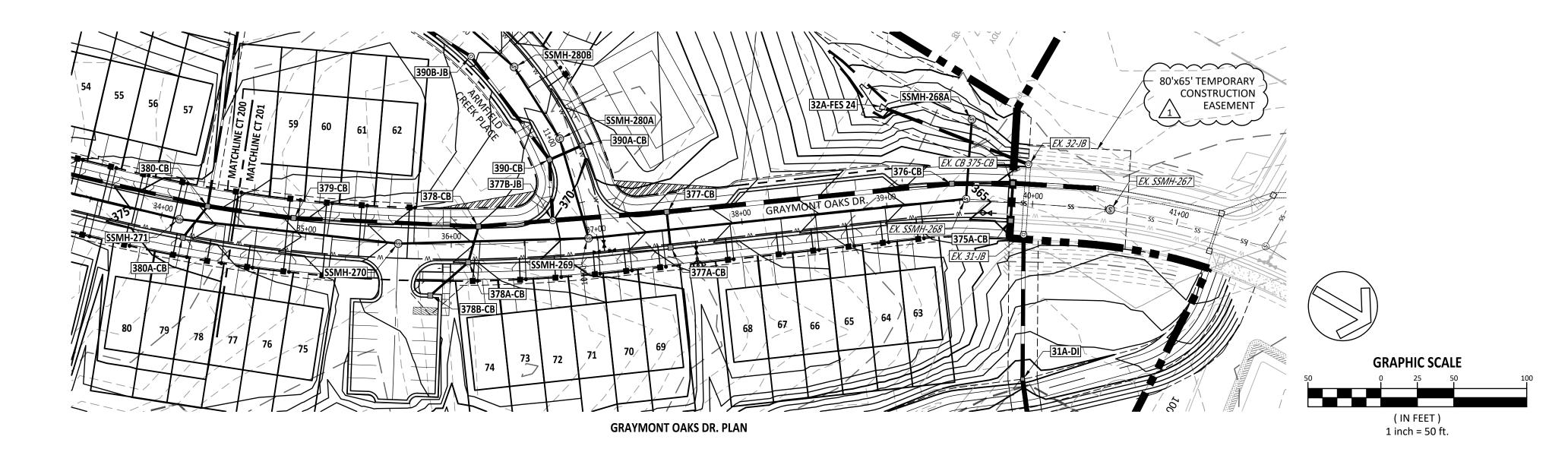
GRAYMONT OAKS DR. PLAN North () Carolling & PROFILE

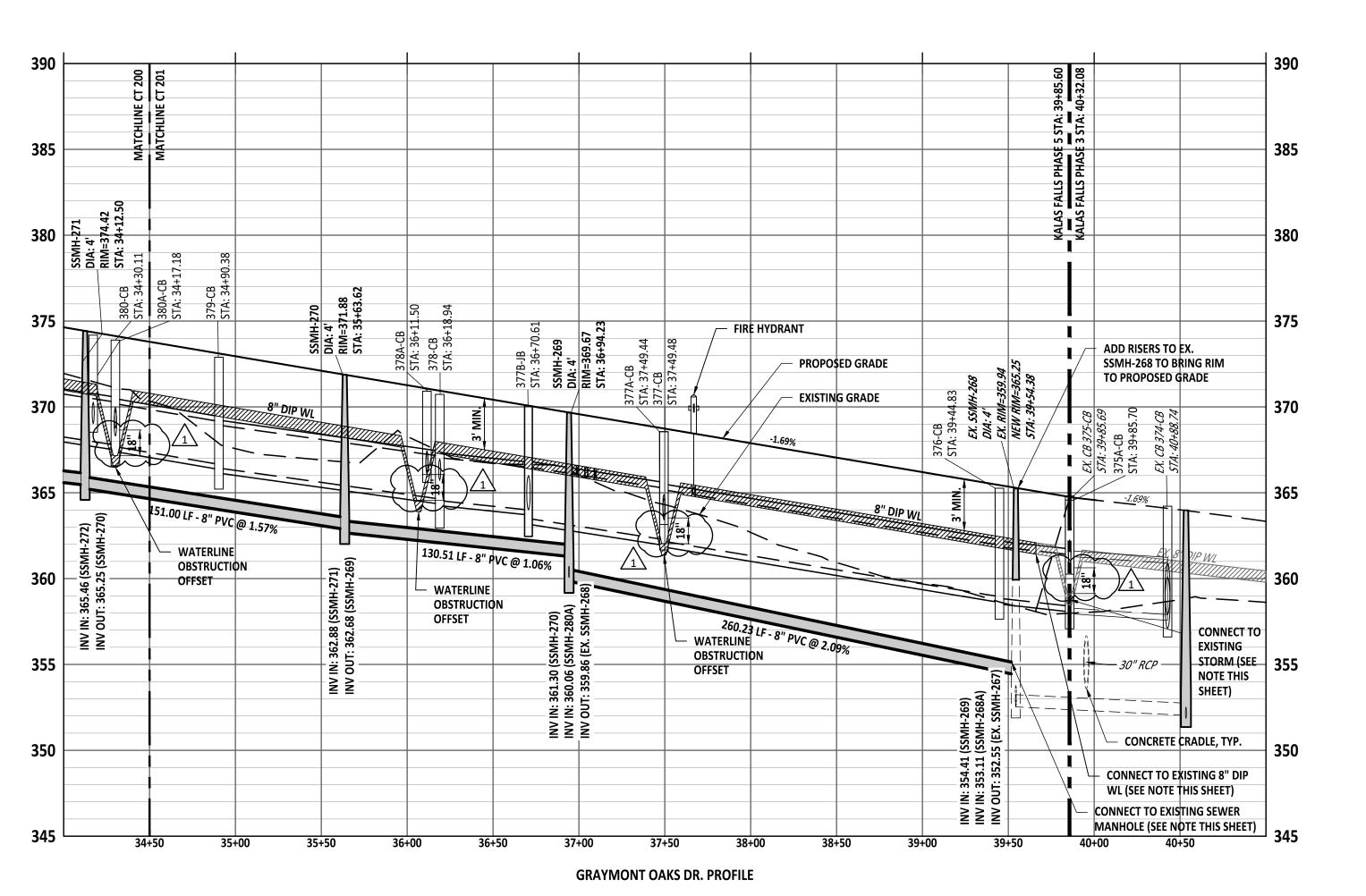
*** 3 Days Before Digging ***
North Carolina 811

811 or 1-800-632-4949

Remote Ticket Entry
http://nc811.org/remoteticketentry.ht

SHEET NO.:



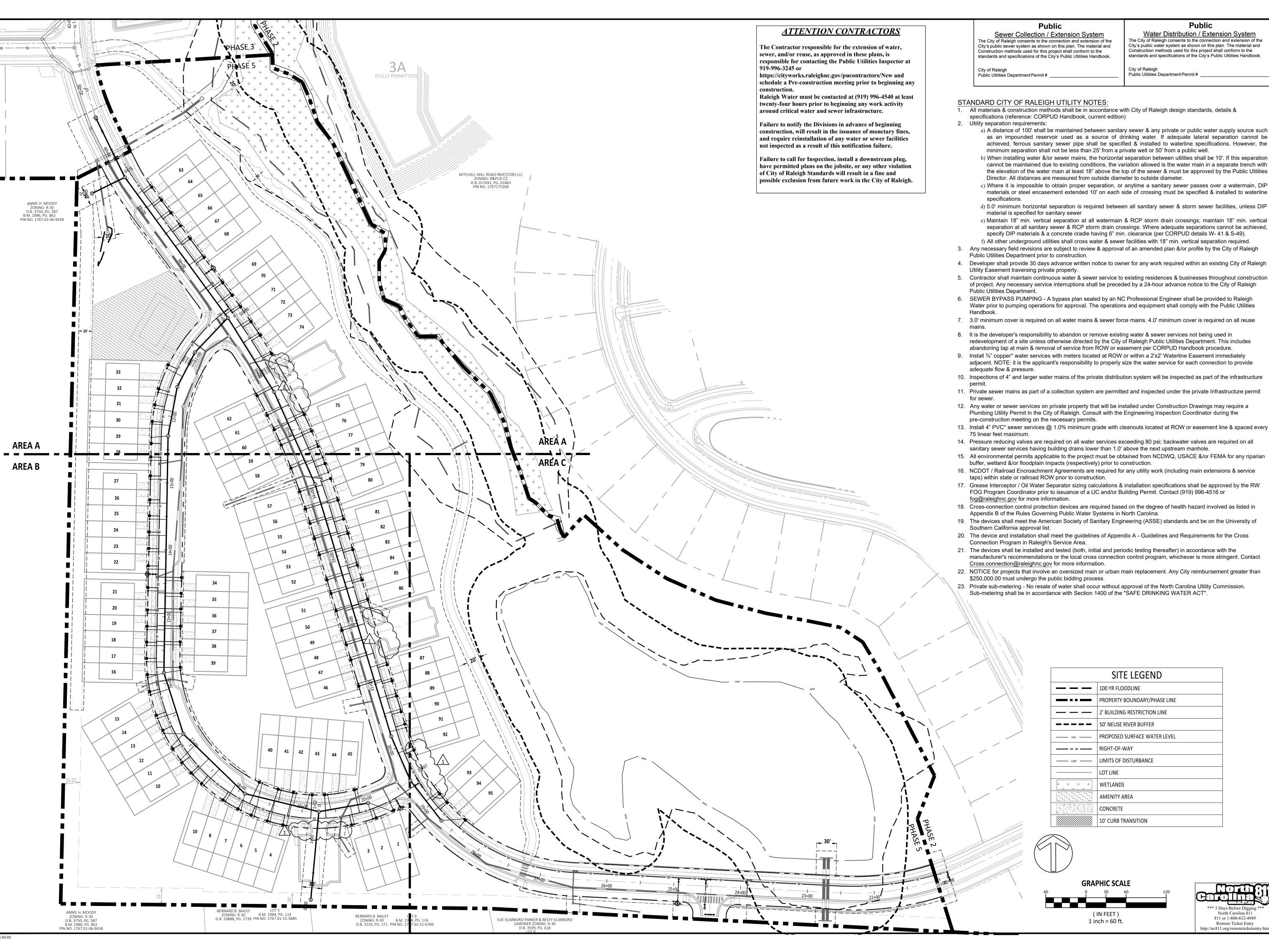


1. CONTRACTOR TO CONFIRM LOCATION, DEPTH, SIZE, AND MATERIAL OF EXISTING UTILITIES, SANITARY SEWER, AND STORM WATER INFRASTRUCTURE AND REPORT ANY DISCREPANCIES TO AMERICAN

ENGINEERING.

Horizontal Scale 1 inch = 50 ft. Vertical Scale 1 inch = 5 ft.

Public Public CAN ring utheast, P.A. Water Distribution / Extension System Sewer Collection / Extension System The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and Construction methods used for this project shall conform to the Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. standards and specifications of the City's Public Utilities Handbook. City of Raleigh
Public Utilities Department Permit # _ City of Raleigh Public Utilities Department Permit # _ ° AMERICAN ° ENGINEERING ASSOCIATES ; 짓ỗ SOUTHEAST FOR INFORMATION, ONLY **GRAPHIC SCALE** (IN FEET) 1 inch = 50 ft. ARMFIELD CREEK PLACE PLAN PVI STA: 18+00.00 FIRE HYDRANT — PVI ELEV: 384.25 K: 36.08 LVC: 100.00 HIGH PT. STA: 18+19.87 BREAK 3 382.07 382.07 382.29 BREAK 3 382.07 HIGH PT ELEV: 383.96 STIPULATION FOR REUSE THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE, NAMED HEREON, BREAK 3 369.45 BREAK 3 369.67 BREAK 3 369.45 CONTEMPORANEOUSLY WITH ITS ISSUE PROPOSED GRADE DATE AS LISTED, HEREON. AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT 8" DIP WL PROJECT SITE OR AT A LATER TIME. USE OF EXISTING GRADE THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW. KALAS FALLS
PHASE 5
CONSTRUCTION INFRASTRUCTURE
DOCUMENTS
CID-25-01
TOWN OF ROLESVILLE,
WAKE COUNTY, NC 74.54 LF 113.96 LF - 8" PVC @ 0.50% 8" PVC 127.79 LF - 8" PVC @ 0.50% @ 0.50% @ 0.50%
- WATERLINE
OBSTRUCTION - WATERLINE IN: 374.56 (SS OBSTRUCTION OFFSET - WATERLINE 372.77 373.70 T: 372.5 OFFSET OBSTRUCTION OFFSET WATERLINE OBSTRUCTION WATERLINE 74.67 LF 8" PVC @ 1.75% OFFSET OBSTRUCTION OFFSET 8" PVC @ 0.51% - WATERLINE -OBSTRUCTION 355 JOB NUMBER: R180115 CHECKED BY: DRAWN BY: 03-03-2025 10+00 13+00 19+00 20+00 ARMFIELD CREEK PLACE PROFILE **ARMFIELD CREEK PLACE** PLAN & PROFILE *** 3 Days Before Digging *** SHEET NO.: Horizontal Scale 1 inch = 50 ft. North Carolina 811 **CT202** Vertical Scale 1 inch = 5 ft. 811 or 1-800-632-4949 Remote Ticket Entry
http://nc811.org/remoteticketentry.ht



- 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
- d) 5.0' minimum horizontal separation is required between all sanitary sewer & storm sewer facilities, unless DIP
- separation at all sanitary sewer & RCP storm drain crossings. Where adequate separations cannot be achieved,

- 13. Install 4" PVC* sewer services @ 1.0% minimum grade with cleanouts located at ROW or easement line & spaced every



JOB NUMBER: CHECKED BY:

UTILITY PLAN OVERALL

> SHEET NO.: **CU100**

° AMERICAN ° **ENGINEERING**

ASSOCIATES

SOUTHEAST

C-3881

FOR INFORMATION, ONLY

STIPULATION FOR REUSE

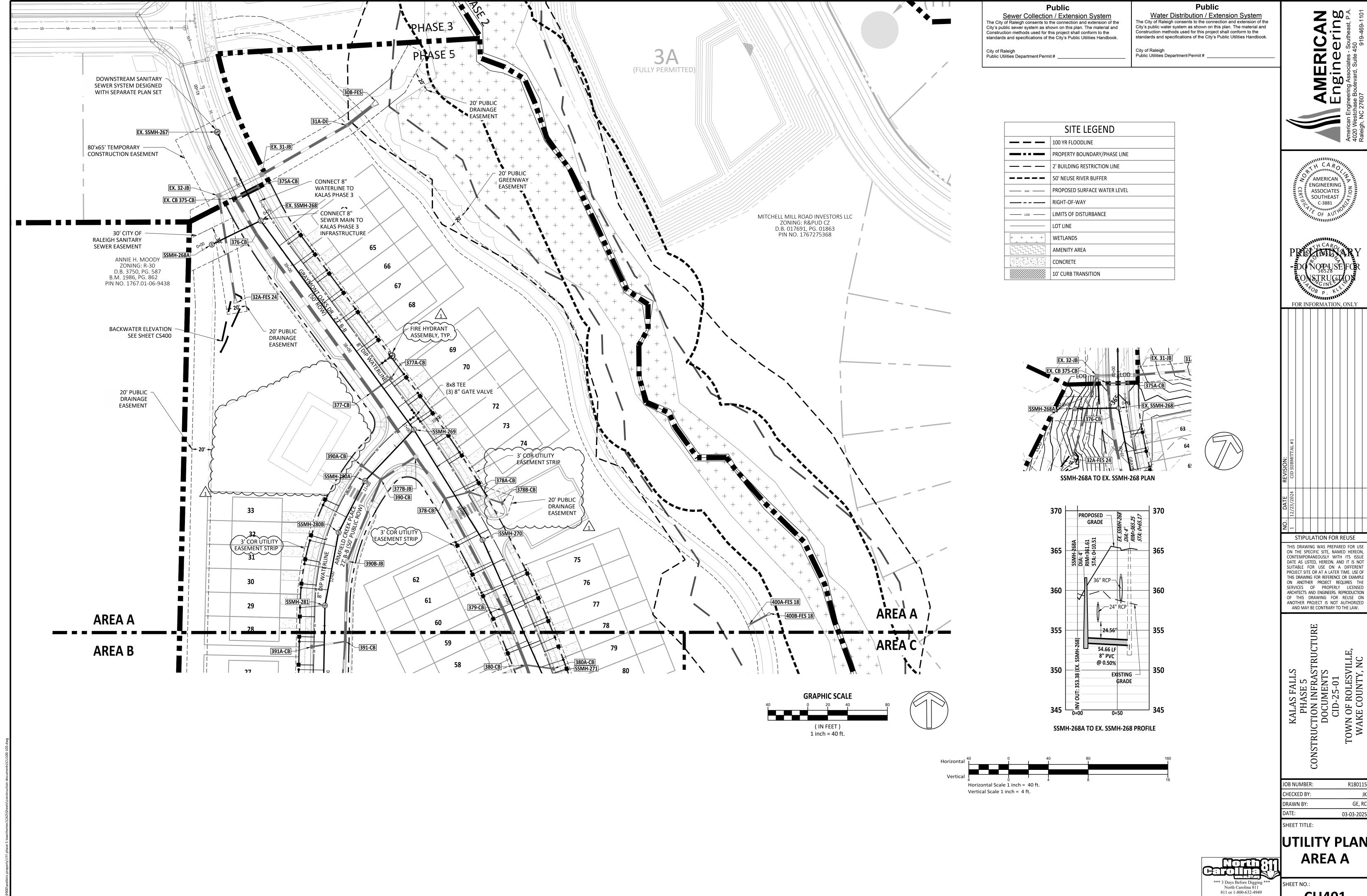
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ON THE SPECIFIC SITE, NAMED HEREON,

CONTEMPORANEOUSLY WITH ITS ISSUE DATE AS LISTED, HEREON. AND IT IS NOT

SUITABLE FOR USE ON A DIFFERENT

PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES TI SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.





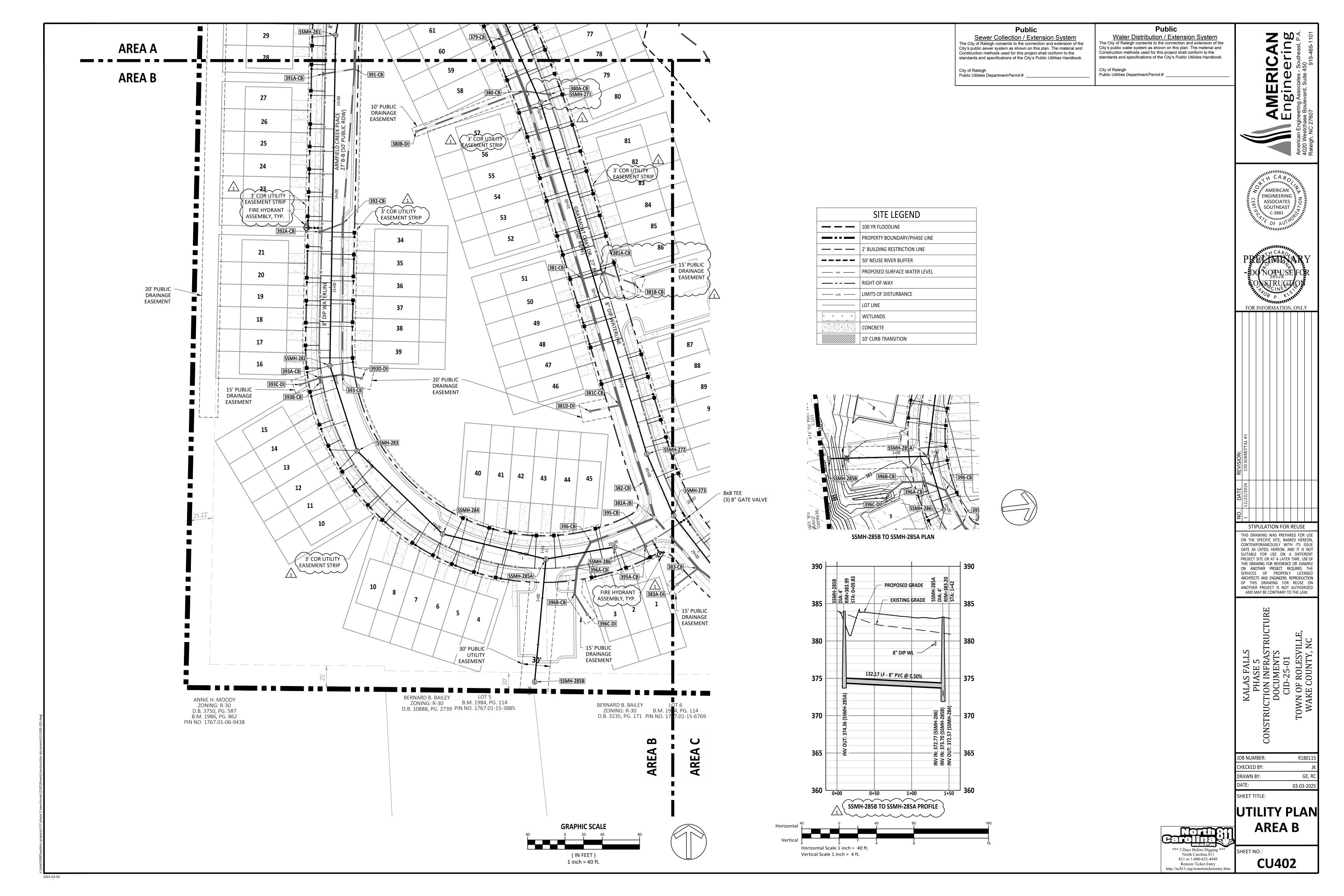
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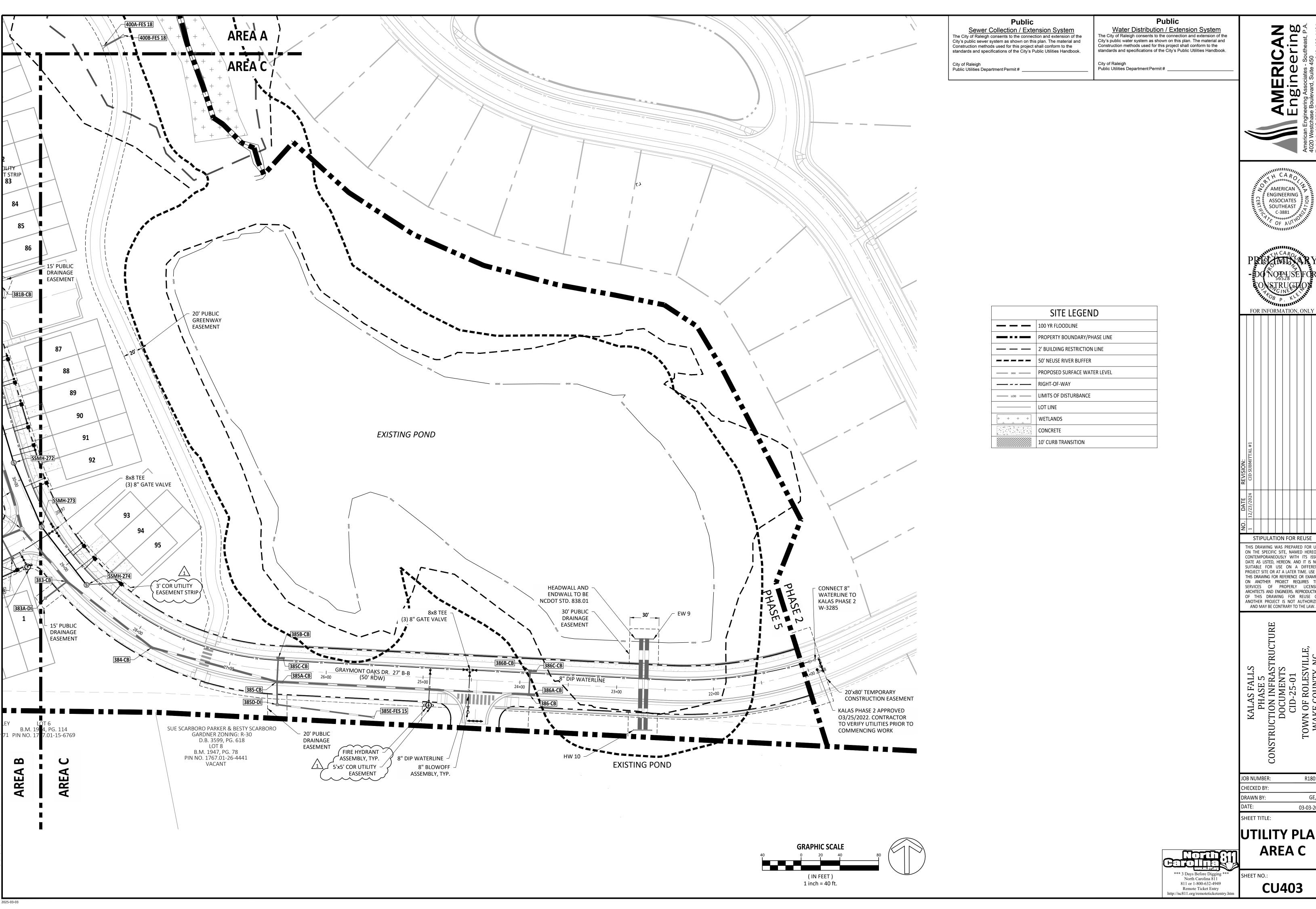
JOB NUMBER:	R180115
CHECKED BY:	JK
DRAWN BY:	GE, RC
DATE	02 02 2025

UTILITY PLAN

Remote Ticket Entry http://nc811.org/remoteticketentry.ht

CU401





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JOB NUMBER:	R180115
CHECKED BY:	JK
DRAWN BY:	GE, RC
DATE:	03-03-2025

UTILITY PLAN **AREA C**

CU403

Public Public Water Distribution / Extension System Sewer Collection / Extension System he City of Raleigh consents to the connection and extension of the The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and City's public water system as shown on this plan. The material and Construction methods used for this project shall conform to the Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. standards and specifications of the City's Public Utilities Handbook. Public Utilities Department Permit # Public Utilities Department Permit # _____ NEW MANHOLES USE A BUTYL SEALANT BETWEEN FRAME AND MANHOLE TOP SECTION WHEN SEE C.O.R. STANDARD **FINISHED** GRADE FINISHED GRADE SECURING FRAME TO MANHOLE TO S-25 FOR MANHOLF ROVIDE A WATER TIGHT SEAL. FRAME AND COVER 24" MAX FINAL NEW ASPHALT SURFACE COURSE SSWR STRUCTURE TABLE BACKFILL EXISTING PAVEMENT VUNDISTURBED SOIL PIPES OUT STRUCTURE NAME: DESCRIPTION PIPES IN: BACKFILL ECCENTRIC M.H. CONE > UNDISTURBED SOIL MAY BE USED ON 8", 10" AND 12" SEWER MAINS. SSWR MH 48 SUBGRADE MANHOLE CONE AND 8" PVC INV.=352.05 EX. SSMH-267 RIM = 363.98BARREL SECTIONS SHALL INV IN = 352.05 BE AS PER ASTM. UNDISTURBED SOIL STANDARDS SSWR MH 48 COMPACTED FIL REQUIRED RIM = 365.25IN 6" LIFTS 8" PVC INV.=354.41 BACKFILL EX. SSMH-268 8" PVC INV.=352.55 INV IN = 354.41 8" PVC INV.=353.11 "O" RING SEAL INV IN = 353.11 OR RAM-NECK INV OUT = 352.55 INITIAL BACKFILL **AUNCHING** SSWR MH 48 SSMH-268A RIM = 361.618" PVC INV.=353.38 4" BEDDING INV OUT = 353.38 LATERAL INVERT SHALL NOT BE SLOPE LOWER THAN MAIN SPRING-I . IN NCDOT MAINTAINED ROADWAYS ENCROACHMENT PAVEMENT PATCH REQUIREMENTS SHALL LINE. MANHOLE SHALL BE 2' SSWR MH 48 TAKE PRECEDENCE. ABOVE 100 YEAR FLOOD PLAIN RIM = 369.67MINIMUM SIDE 2. THE PAVEMENT CUT SHALL BE DEFINED BY A STRAIGHT EDGE AND CUT WITH AN APPROPRIATE TAMP WELL UNDER 8" PVC INV.=361.30 OR SEALED AND VENT TO BE 6" #67 STONE 8" PVC INV.=359.86 SSMH-269 INV IN = 361.30 SAWCUT MACHINE. D. OF PIPE CLEARANCE BOTTOM HALF OF PIPE 2' ABOVE 100 YEAR FLOOD 8" PVC INV.=360.06 WHEN ROCK IS 3. THE TRENCH SUBGRADE MATERIAL SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND PE 12" MAXIMUM SIDE INV IN = 360.06 PLAIN. WHEN MANHOLE TOPS 2" O.D. OF PIPE **ENCOUNTERED** COMPACTED TO A DENSITY OF AT LEAST 95% OF THAT OBTAINED BY COMPACTING A SAMPLE OF INV OUT = 359.86 ARE IN EXCESS OF 3' ABOVE CLEARANCE THE MATERIAL IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NCDOT. GRADE. OUTSIDE STEPS MUST 4. THE FINAL I' OF FILL SHALL CONSIST OF ABC MATERIAL COMPACTED TO A DENSITY EQUAL TO BE PROVIDED. SEE STANDARD SSWR MH 48 TYPICAL TRENCH BOTTOM DIMENSIONS FOR I 00% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH I. TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE S-28 FOR STEP DETAIL. IN RIM = 371.88AASHTO T-80 AS MODIFIED BY NCDOT. SDR 35 PVC GRAVITY PIPE SSMH-270 8" PVC INV.=362.88 | 8" PVC INV.=362.68 FACE OF THE SHORING AND BRACING. NON TRAFFIC AREAS, TOP OF INV IN = 362.88 5. THE ENTIRE THICKNESS AND VERTICAL EDGE OF CUT SHALL BE TACKED. 2. NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN INITIAL BACKFILL. FRAME AND COVER SHALL BE G. THE SAME DEPTH OF PAVEMENT MATERIAL WHICH EXISTS SHALL BE REINSTALLED, BUT IN NO INV OUT = 362.68 3. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL. INSTALLED A MIN. OF 1' ABOVE CASE SHALL THE ASPHALT BE LESS THAN 3" THICK. I. FOR TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE 4. BACKFILL SHALL BE TAMPED IN G" LIFTS IN TRAFFIC AREAS, 12" IN NON-TRAFFIC AREAS. FINISHED GROUND SURFACE. 7. THE ASPHALT PAVEMENT MATERIAL SHALL BE INSTALLED AND COMPACTED THOROUGHLY WITH A INSIDE FACE OF THE SHORING AND BRACING. SSWR MH 48 5. ACHIEVE 80% COMPACTION IN NON-TRAFFIC AREAS, AND 95% COMPACTION IN TRAFFIC AREAS. SMOOTH DRUM ROLLER TO ACHIEVE A SMOOTH LEVEL PATCH. 2. NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN INITIAL BACKFILL. RIM = 374.426. IF IN EASEMENT 4" TOPSOIL, AND 12" CLEAN SELECT FILL MAY BE REQUIRED. SEE SEWER DESIGN 8. REFER TO CITY OF RALEIGH STANDARDS FOR TRENCHES AND PIPE BEDDING (5-4 \$ 5-5) FOR SSMH-271 8" PVC INV.=365.46 | 8" PVC INV.=365.25 3. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL. 7. NO BOULDERS 8" IN DIAMETER OR GREATER ALLOWED IN FINAL BACKFILL. SECTION INV IN = 365.46 ADDITIONAL DETAILS. 4. BACKFILL SHALL BE TAMPED IN 6" LIFTS IN TRAFFIC AREAS, 12" IN NON-TRAFFIC AREAS. INV OUT = 365.25 9. NO HAND PATCHING ALLOWED. MIN. 9" COMPACTED #67 STONE I O. PAVEMENT CUTS WITHIN NCDOT ROW SHALL CONFORM TO THE APPROVED ON SITE BASE TO BE INSTALLED UNDER SSWR MH 48 ENCROACHMENT PERMIT. NEW MANHOLE. RIM = 381.06SSMH-272 8" PVC INV.=372.50 | 8" PVC INV.=370.05 CITY OF RALEIGH CITY OF RALEIGH CITY OF RALEIGH INV IN = 372.50 DEPARTMENT OF PUBLIC UTILITIES DEPARTMENT OF PUBLIC UTILITIES DEPARTMENT OF PUBLIC UTILITIES INV OUT = 370.05 DEPARTMENT OF PUBLIC UTILITIES STANDARD ASPHALT TRENCH BOTTOM DIMENSIONS AND BACKFILLING TRENCH BOTTOM DIMENSIONS & BACKFILLING STANDARD PRECAST SANITARY SSWR MH 48 REQUIREMENTS FOR PVC GRAVITY SEWER MAIN PAVEMENT PATCH DETAIL REQUIREMENTS FOR DUCTILE IRON SEWER MANHOLE RIM = 382.288" PVC INV.=374.56 | 8" PVC INV.=374.36 SSMH-273 INV IN = 374.56 INV OUT = 374.36 5-4 * SEE VENT DETAIL

VENT OPENING TO

4" "HOT DIPPED"

GALV. PIPE

FACTORY CAST IN PLACE

GALVANIZED PIPE FLANGE

12" ABOVE MH TOP

FLANGE

STAINLESS

CITY OF RALEIGH

DEPARTMENT OF PUBLIC UTILITIES

STANDARD SEAL TIGHT MANHOLE

WITH VENTED STACK

VENT OPENING TO BE TWO FOOT ABOVE

SEAL AROUND VENT

HAVE CAST IN

STEPS TO

RISER OPPOSITE

ACCOMODATE 4"

GALVANIZED PIPE.

"HOT DIPPED"

PIPE THROUGH

MANHOLE

HUNDRED YEAR FLOOD ELEVATION

CAM-LOK WATER TIGHT

MANHOLE FRAME AND

MIN. 12" PRE-CAST

ALL SIDES.

VENT DETAIL

COVERS

NOTES:

elevation

GALVANIZED.

* OTHER ACCEPTABLE

. VENT MUST BE FACTORY WELDED

S-24 -

FABRICATED AND "HOT DIPPED"

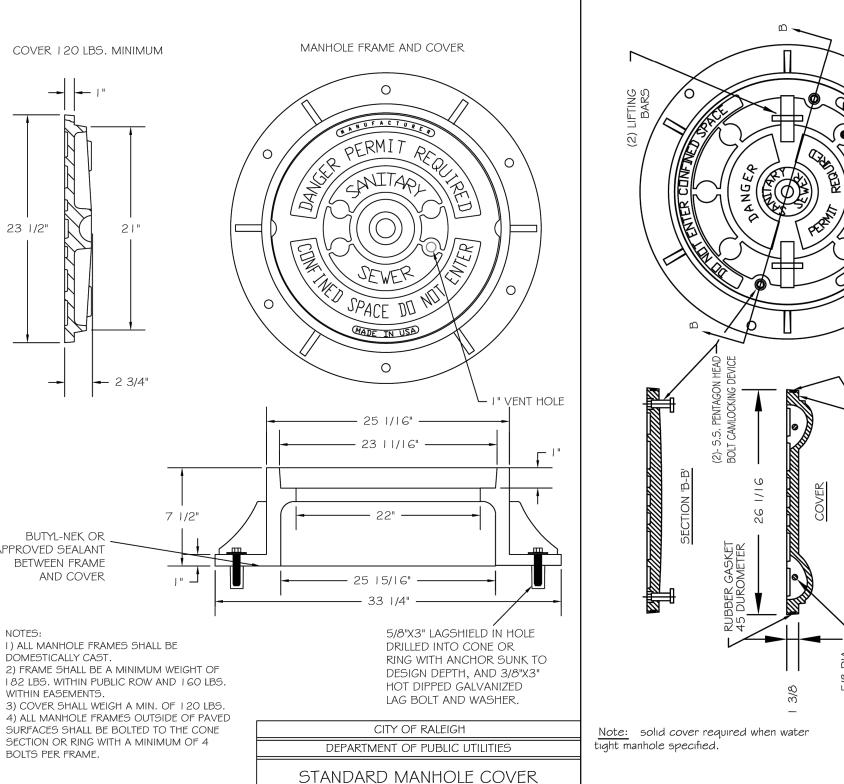
2.HYFE- Hundred Year Flood

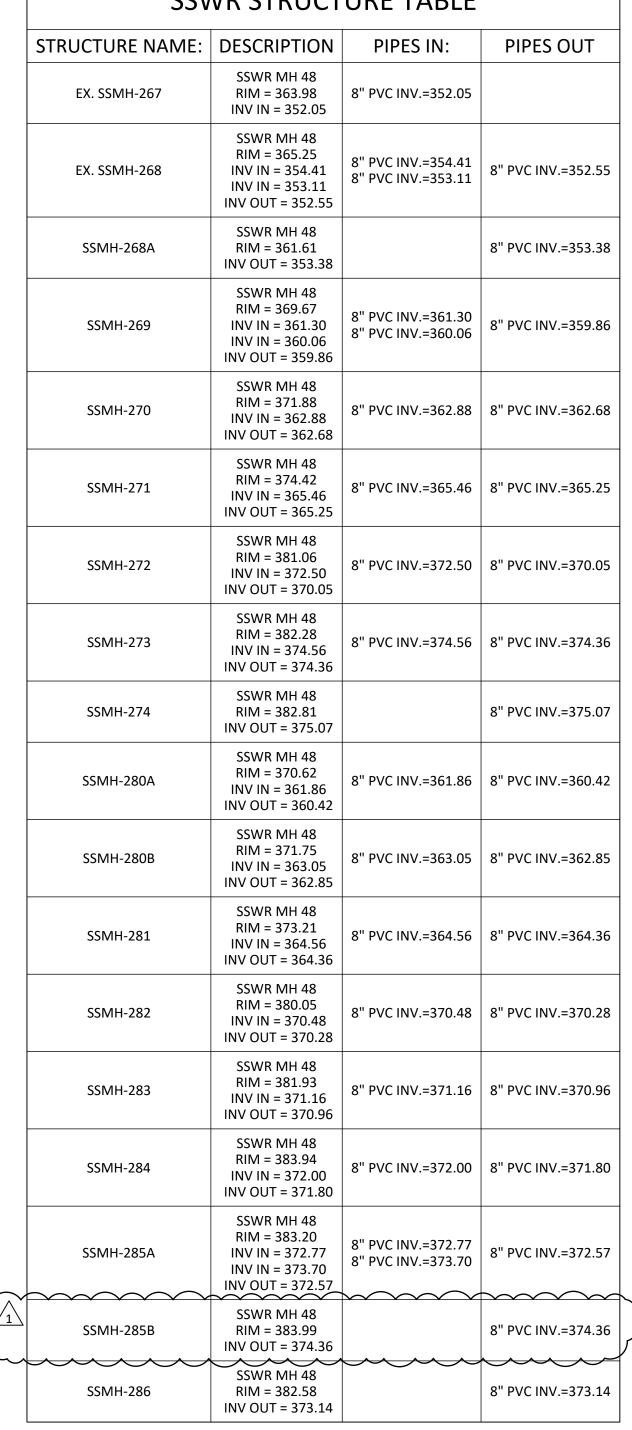
COVER CENTERED IN ~

TOP SLAB

SLOPE FINISHED GRADE

AWAY FROM MANHOLE





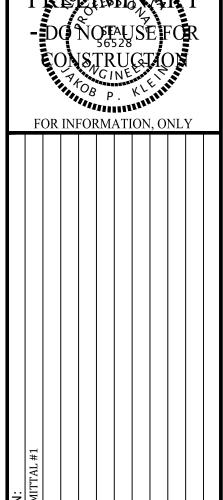
CITY OF RAI FIGH

FLAT TOP

MANHOLE COVER

DEPARTMENT OF PUBLIC UTILITIES

Inggrest, P.A. **ICA** erir ° AMERICAN ° **ENGINEERING** ASSOCIATES ို္င္ရွိ SOUTHEAST C-3881



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TLLE, NC KALAS FALLS
PHASE 5
CONSTRUCTION INFRASTI
DOCUMENTS
CID-25-01
TOWN OF ROLESVII
WAKE COUNTY, N

JOB NUMBER: R18011 CHECKED BY: DRAWN BY: GE, RC 03-03-202

> **UTILITY DETAILS**

SHEET NO.: **CU500**

SHEET TITLE:

North Carolina *** 3 Days Before Digging * North Carolina 811 811 or 1-800-632-4949 Remote Ticket Entry http://nc811.org/remoteticketentry.

T2 BARS AT 8" CTS

6'-0"

REINFORCED CONC. FOOTING FOR

TI BARS AT 8" CTS

7'-0"

REINFORCED CONC. FOOTING FOR

—T2 BARS AT 8" CTS —

8'-0"

REINFORCED CONC. FOOTING FOR

TI OR T2 BAR —

STRAIGHT BAR —

6' PRECAST MANHOLE

51 PRECAST MANHOLE

4" PRECAST MANHOLE

BILL OF MATERIAL FOR 4' MANHOLE

BAR SIZE LENGTH NO. WT. LBS.

T2 #5 5'-G" 18 103

CL. "A" CONCRETE TOTAL CU. YDS. ,000

BILL OF MATERIAL FOR 4' MANHOLI

BAR SIZE LENGTH NO. WT. LBS.

CL. "A" CONCRETE TOTAL CU. YDS. 1.36

BILL OF MATERIAL FOR 4' MANHOLE

2 #5 7'-6" 24 165

CL. "A" CONCRETE TOTAL CU. YDS. ,778

* ALL BASES ARE MINIMUM 9" THICK

LENGTH NO. WT. LBS.

CITY OF RALEIGH

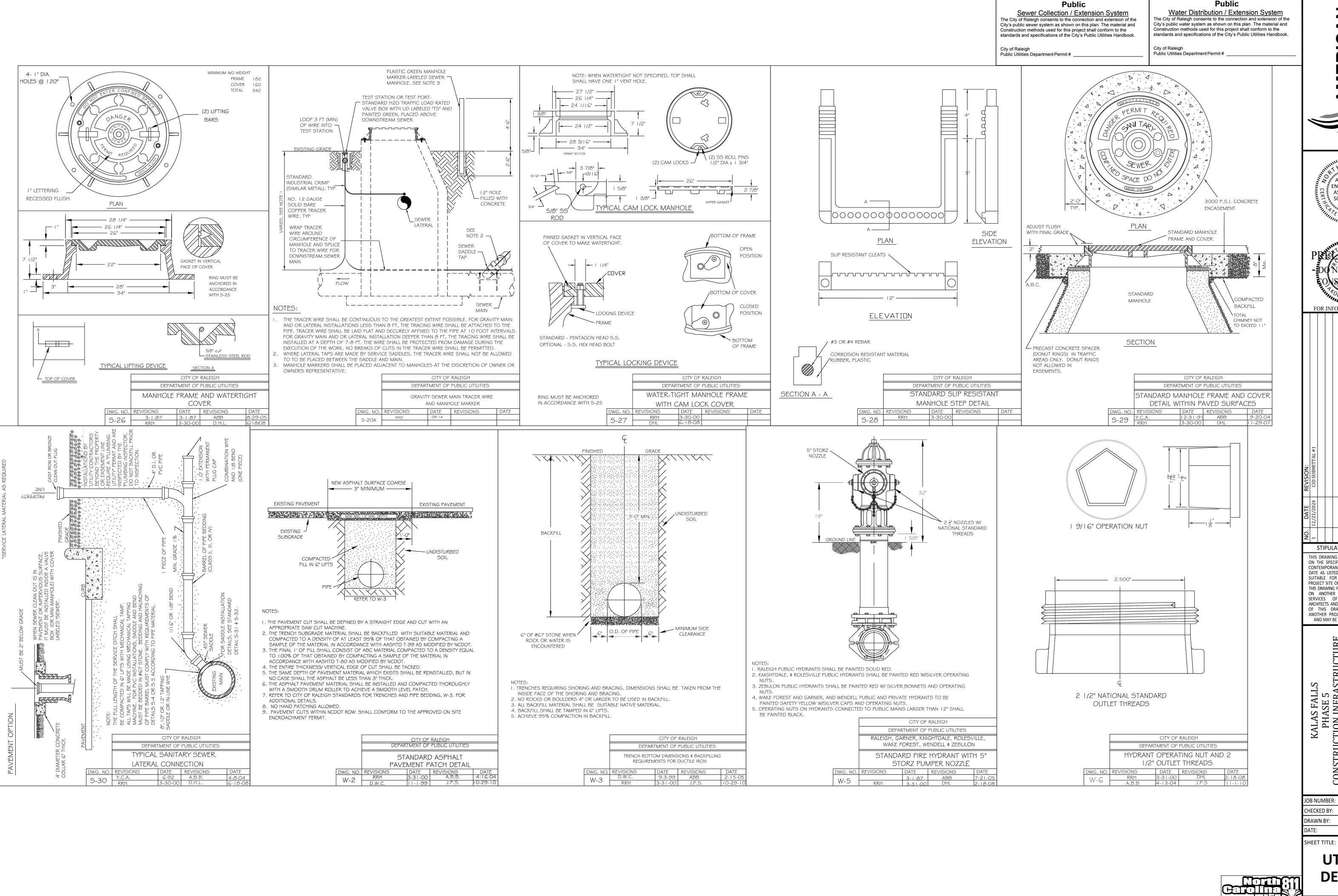
DEPARTMENT OF PUBLIC UTILITIES

DATE REVISIONS

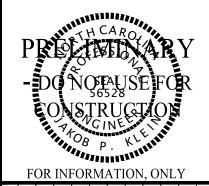
EXTENDED BASE OR CAST-IN-PLACE

REINFORCED CONCRETE BASE

#5 6'-6" 20 I36







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WAKE COUNTY, NC

R18011 GE, RC 03-03-202

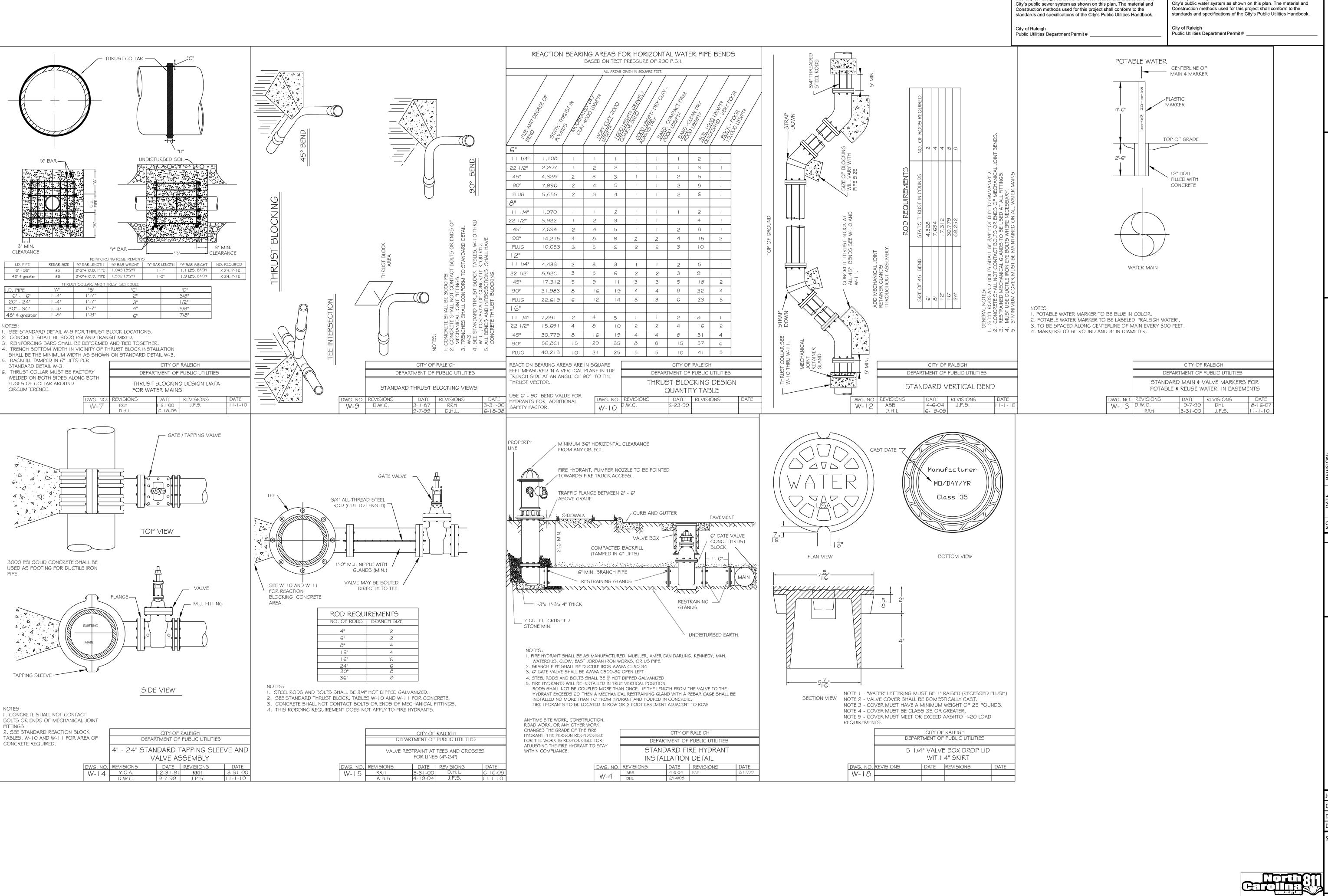
*** 3 Days Before Digging **

North Carolina 811 811 or 1-800-632-4949

Remote Ticket Entry http://nc811.org/remoteticketentry.

UTILITY **DETAILS**

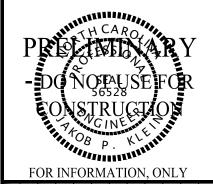
SHEET NO.: **CU501**



Public

Water Distribution / Extension System Sewer Collection / Extension System The City of Raleigh consents to the connection and extension of the The City of Raleigh consents to the connection and extension of the





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KALAS FALLS
PHASE 5
CONSTRUCTION INFRASTRUCTURE
DOCUMENTS
CID-25-01

JOB NUMBER: R18011 CHECKED BY: DRAWN BY: GE, RC 03-03-2025

SHEET TITLE:

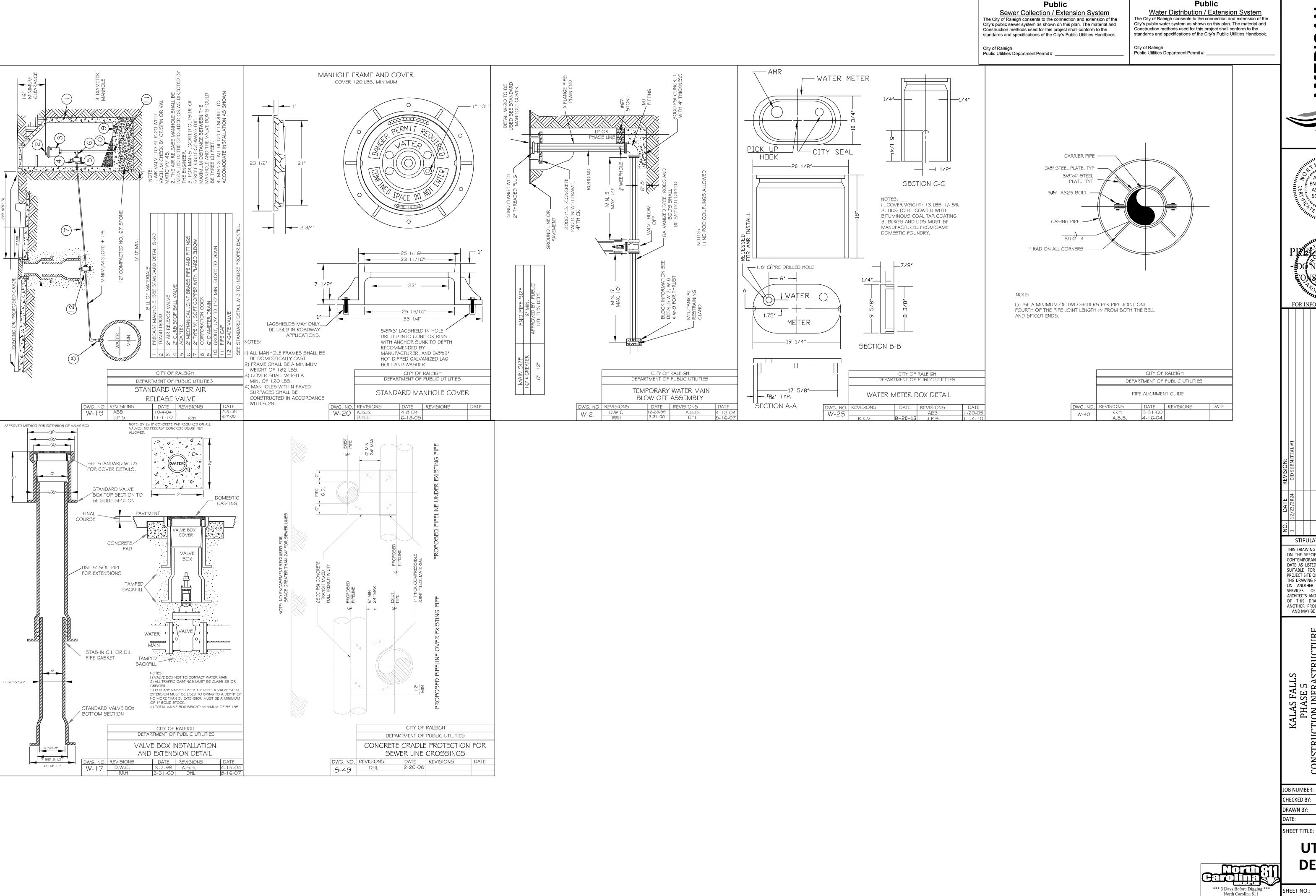
*** 3 Days Before Digging ***

North Carolina 811 811 or 1-800-632-4949

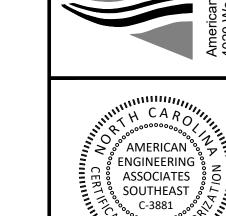
Remote Ticket Entry http://nc811.org/remoteticketentry.

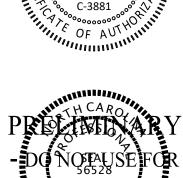
UTILITY **DETAILS**

SHEET NO.: **CU502**



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CONSTRUCTION DOC

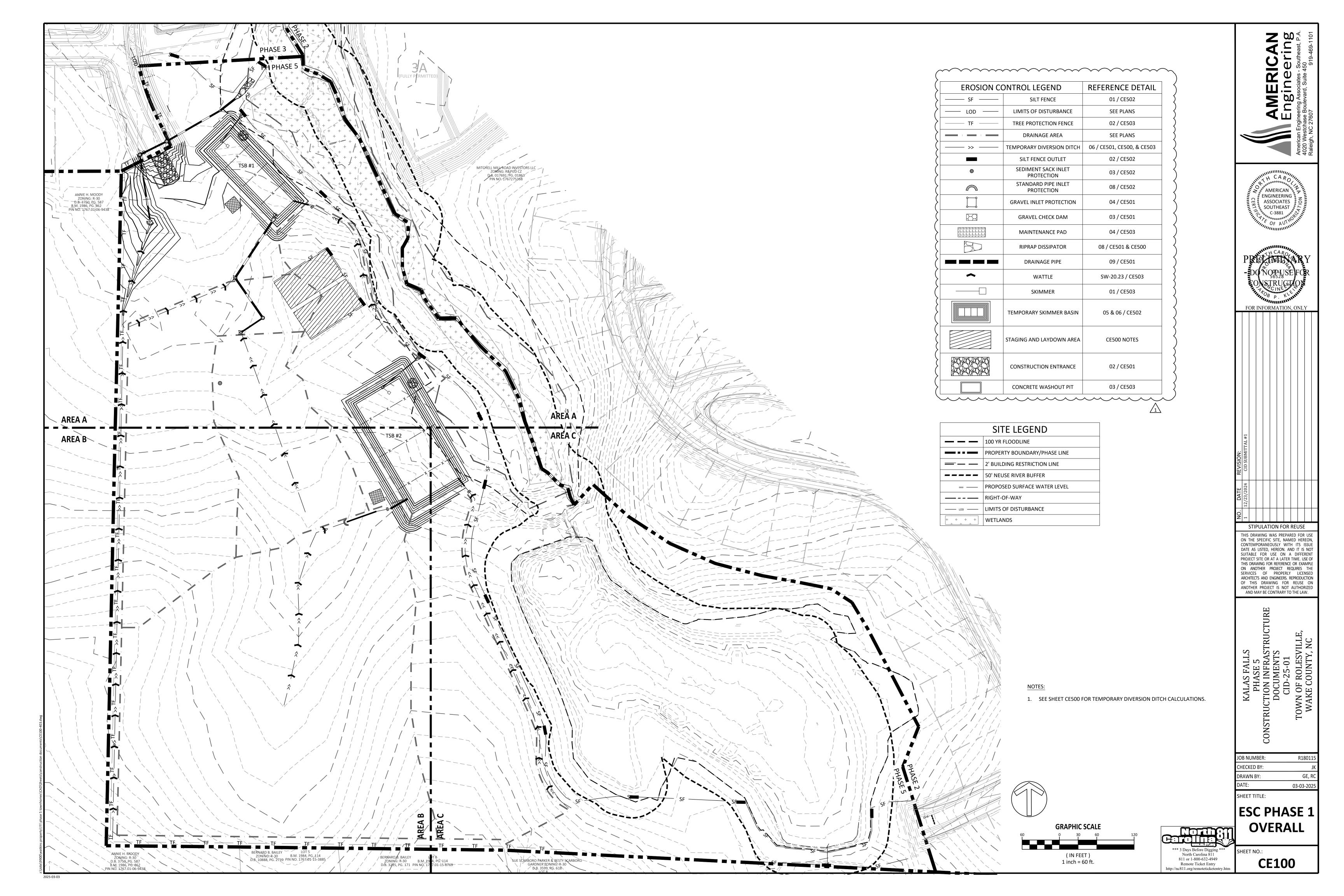
JOB NUMBER: R180115 CHECKED BY: DRAWN BY: 03-03-202

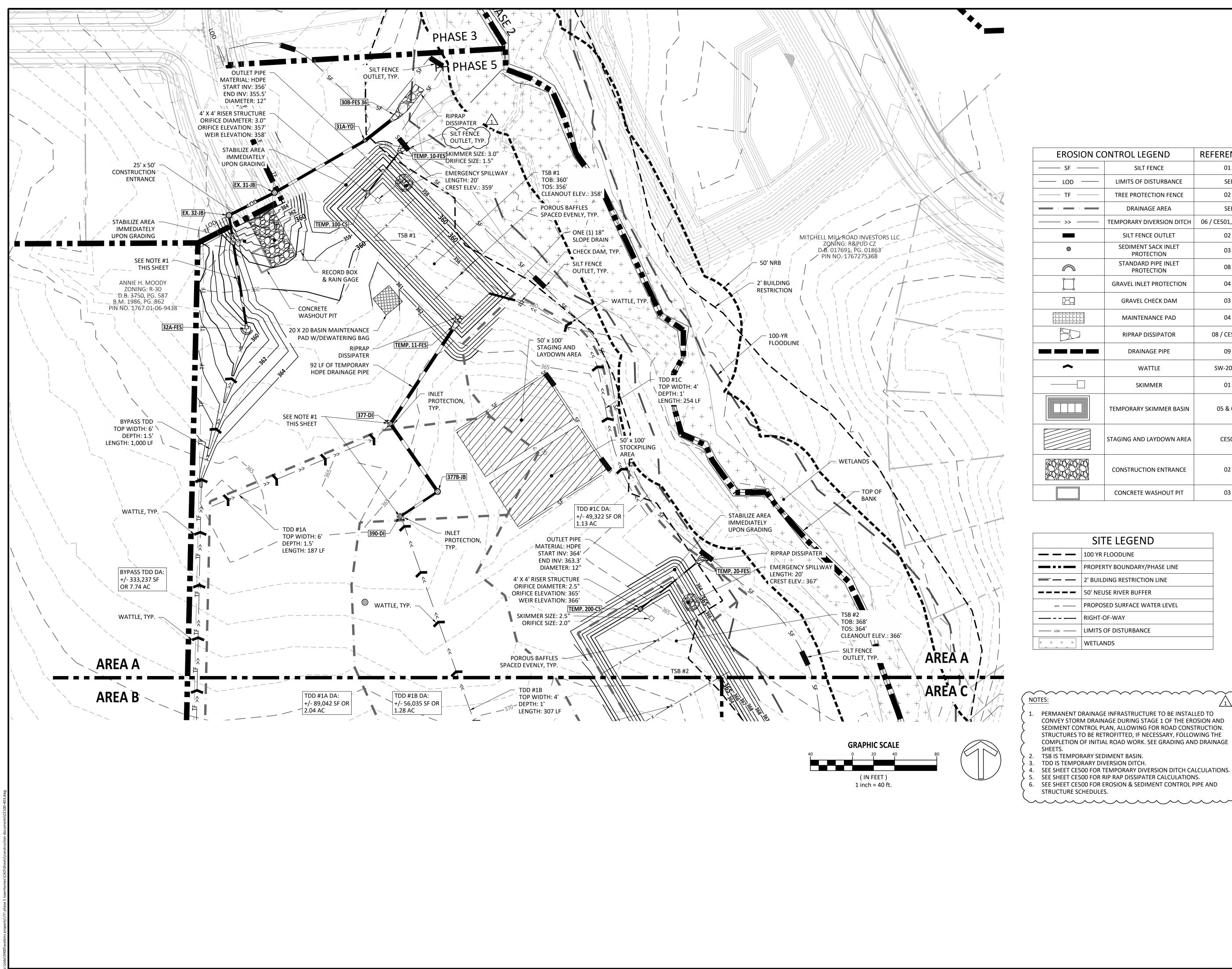
> UTILITY **DETAILS**

SHEET NO.: **CU503** http://nc811.org/remoteticketentry.h

811 or 1-800-632-4949

Remote Ticket Entry





EROSION CO	EROSION CONTROL LEGEND		
———— SF ————	SILT FENCE	01 / CE502	
—— LOD ——	LIMITS OF DISTURBANCE	SEE PLANS	
—— TF ——	TREE PROTECTION FENCE	02 / CE503	
	DRAINAGE AREA	SEE PLANS	
>>	TEMPORARY DIVERSION DITCH	06 / CE501, CE500, & CE503	
-	SILT FENCE OUTLET	02 / CE502	
Ø	SEDIMENT SACK INLET PROTECTION	03 / CE502	
	STANDARD PIPE INLET PROTECTION	08 / CE502	
	GRAVEL INLET PROTECTION	04 / CE501	
	GRAVEL CHECK DAM	03 / CE501	
	MAINTENANCE PAD	04 / CE503	
80	RIPRAP DISSIPATOR	08 / CE501 & CE500	
	DRAINAGE PIPE	09 / CE501	
^	WATTLE	SW-20.23 / CE503	
	SKIMMER	01 / CE503	
	TEMPORARY SKIMMER BASIN	05 & 06 / CE502	
	STAGING AND LAYDOWN AREA	CE500 NOTES	
	CONSTRUCTION ENTRANCE	02 / CE501	
	CONCRETE WASHOUT PIT	03 / CE503	

SITE LEGEND		
	100 YR FLOODLINE	
	PROPERTY BOUNDARY/PHASE LINE	
	2' BUILDING RESTRICTION LINE	
	50' NEUSE RIVER BUFFER	
000 ——	PROPOSED SURFACE WATER LEVEL	
	RIGHT-OF-WAY	
LOD	LIMITS OF DISTURBANCE	
+ + + +	WETLANDS	

PERMANENT DRAINAGE INFRASTRUCTURE TO BE INSTALLED TO CONVEY STORM DRAINAGE DURING STAGE 1 OF THE EROSION AND SEDIMENT CONTROL PLAN, ALLOWING FOR ROAD CONSTRUCTION. STRUCTURES TO BE RETROFITTED, IF NECESSARY, FOLLOWING THE

- TSB IS TEMPORARY SEDIMENT BASIN.
- TDD IS TEMPORARY DIVERSION DITCH.
- SEE SHEET CE500 FOR RIP RAP DISSIPATER CALCULATIONS.
- 6. SEE SHEET CE500 FOR EROSION & SEDIMENT CONTROL PIPE AND
- STRUCTURE SCHEDULES.

KALAS FALLS
PHASE 5
CONSTRUCTION INFRASTRUCTURE
DOCUMENTS
CID-25-01
TOWN OF ROLESVILLE,
WAKE COUNTY, NC JOB NUMBER: R180115 CHECKED BY: DRAWN BY: GE, RC 03-03-2025 SHEET TITLE:

° AMERICAN ° **ENGINEERING**

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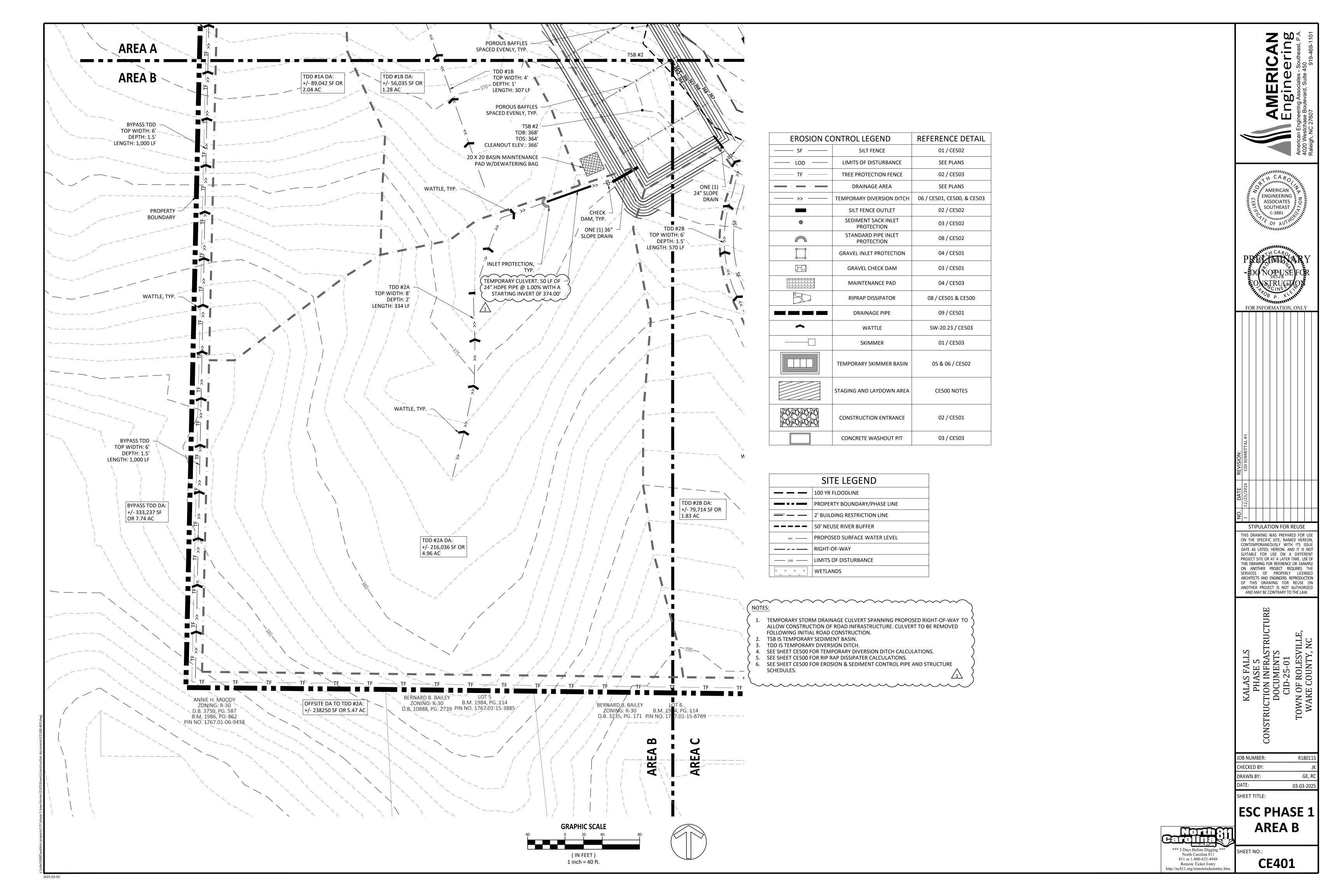
, 격통 SOUTHEAST

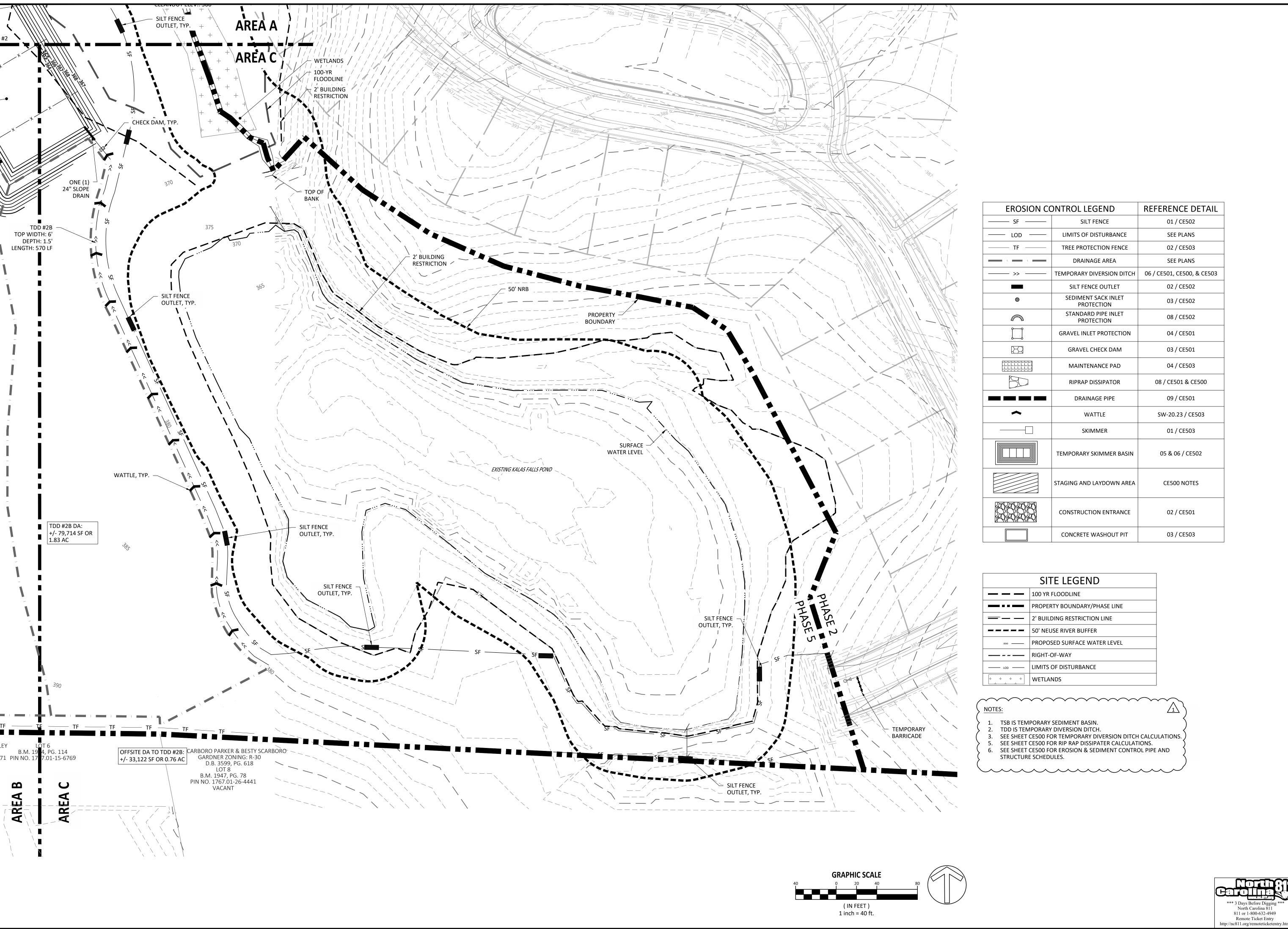
ESC PHASE 1 AREA A

*** 3 Days Before Digging *** North Carolina 811 811 or 1-800-632-4949 Remote Ticket Entry http://nc811.org/remoteticketentry.h

CE400

SHEET NO.:





AMERICAN
Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
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ASSOCIATES OF AUTHURIAN OF AUTH

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PHASE 5
RUCTION INFRASTRUCTURE
DOCUMENTS
CID-25-01
VARE COINTY NC

JOB NUMBER:	R180115
CHECKED BY:	Jk
DRAWN BY:	GE, RC
DATE:	03-03-2025

SHEET TITLE:

ESC PHASE

1 AREA C

SHEET NO.:

49
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tentry.htm

CE402