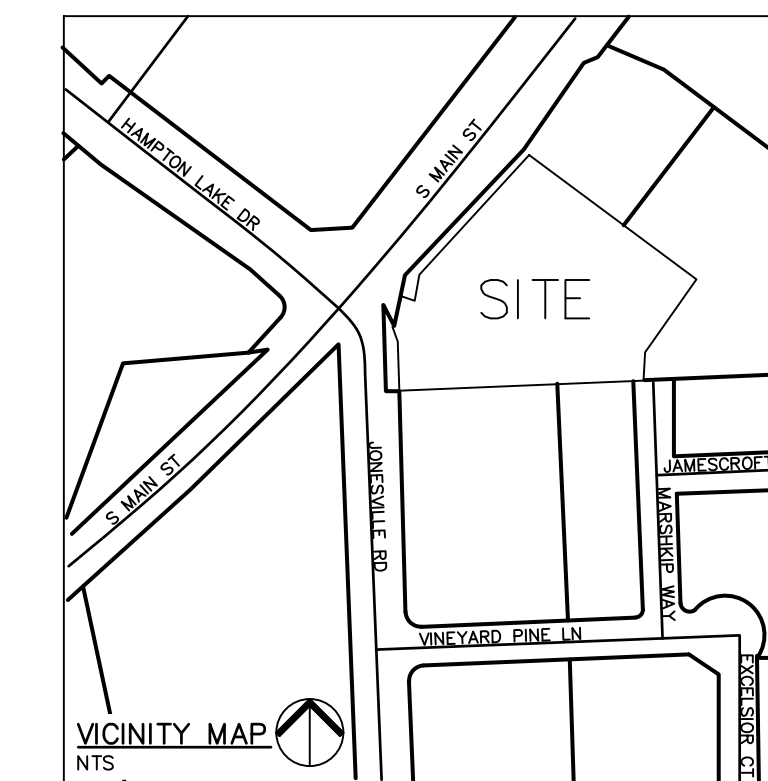


KIDDIE ACADEMY LOT 4 AT WALLBROOK

851 S MAIN ST
Rolesville, North Carolina

SITE DEVELOPMENT PLAN

SDP-26-0001 | PIN: 1758-45-3676 | 27 JAN 2026

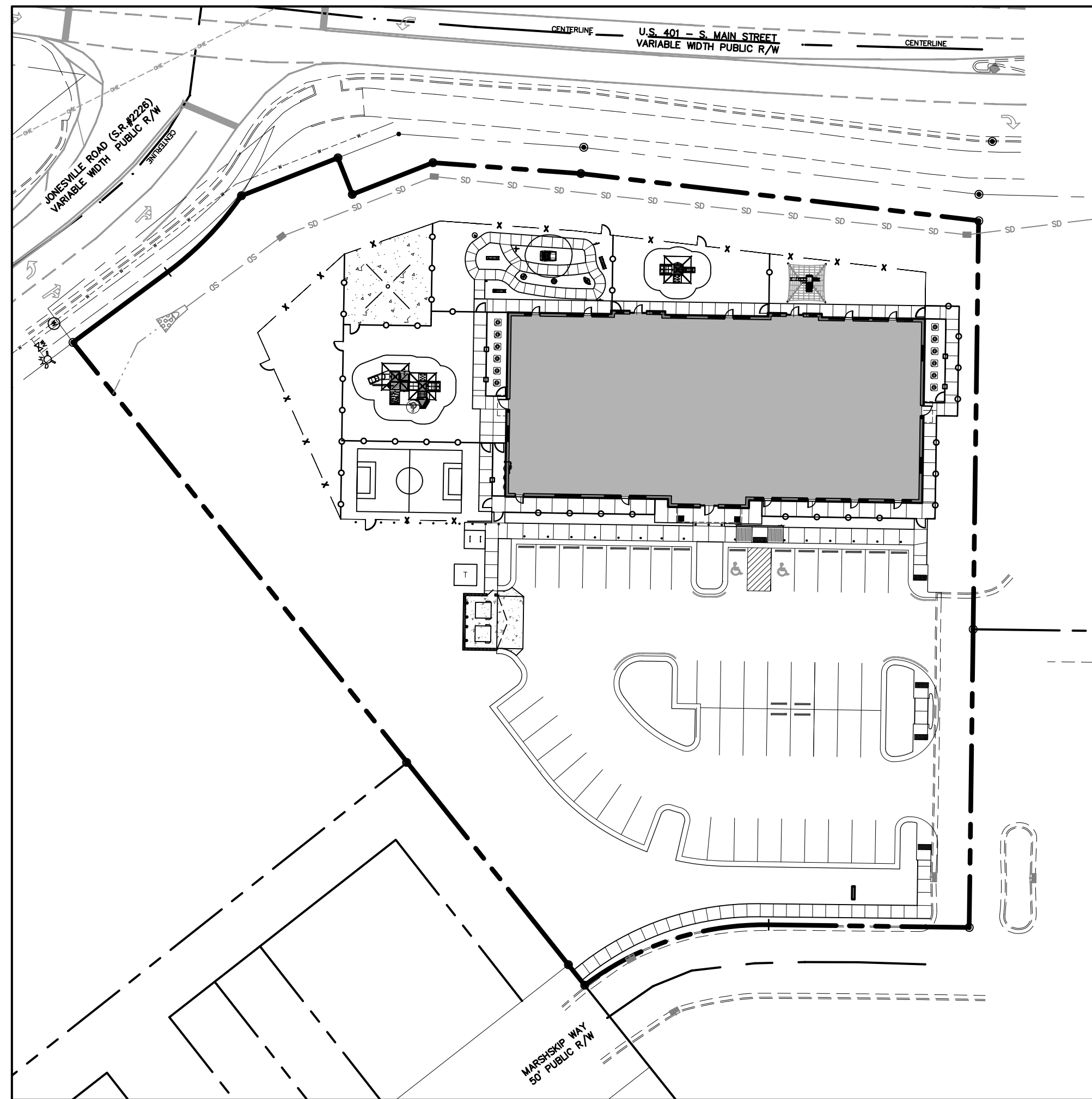


NC ENGINEERING
LICENSE NO. P-0803



DRAWINGS INDEX:

SITE 001	COVER SHEET
SITE 100	EXISTING CONDITIONS & DEMO PLAN (BOUNDARY SURVEY)
SITE 200	SITE LAYOUT PLAN
SITE 201	FIRE ACCESS PLAN
SITE 300	GRADING & DRAINAGE PLAN
SITE 301	INITIAL EROSION CONTROL PLAN
SITE 302	FINAL EROSION CONTROL PLAN
SITE 303	NPDES SHEET
SITE 304	STORM DRAINAGE PROFILES
SITE 400	UTILITY PLAN
SITE 401	LIGHTING PLAN
SITE 500	LANDSCAPE PLAN
SITE 600	SITE DETAILS
SITE 601	SITE DETAILS
SITE 602	SITE DETAILS
SITE 603	SITE DETAILS
SITE 604	SITE DETAILS
SITE 605	SITE DETAILS
SITE 606	SITE DETAILS
SITE 607	SITE DETAILS
SK 1.1	BUILDING FLOORPLANS (BY OTHERS)
SK 1.2	BUILDING ELEVATIONS (BY OTHERS)



SITE DATA SUMMARY

PROJECT NAME:	KIDDIE ACADEMY LOT 4 AT WALLBROOK
PARCEL ID(S):	1758-45-3676
SITE ADDRESS:	851 S MAIN ST
JURISDICTION:	RO - ROLESVILLE
EXISTING ZONING:	GC-CZ
COUNTY:	WAKE
RIVER BASIN:	NEUSE
WATERSHED:	LOWER NEUSE
GROSS SITE AREA:	76,124 SF, 1.75 ACRES
CURRENT USE:	VACANT
PROPOSED USE:	DAYCARE
BUILDING AREA:	11,112 SF
BUILDING HEIGHT:	24' 1-1/2'
SETBACKS & DIMENSIONS:	
FRONT BUILDING SETBACK (MIN):	20'
SIDE BUILDING SETBACK (MIN):	15'
REAR BUILDING SETBACK (MIN):	35'
CORNER BUILDING SETBACK (MIN):	25'
LOT WIDTH (MIN):	100'
LOT AREA (MIN):	20,000 SF
PRIMARY STREET PARKING SETBACK:	10'
SIDE LOT PARKING SETBACK:	10'
REAR LOT PARKING SETBACK:	0' OR 3'
VEHICLE PARKING MINIMUM:	2.5 SPACES/1,000 SF = 28 SPACES (INCL. 2 H/C)
VEHICLE PARKING MAXIMUM:	5 SPACES/1,000 SF = 56 SPACES
PROVIDED VEHICLE PARKING:	49 SPACES (INCL. 2 H/C)
BICYCLE PARKING REQUIRED (MIN.):	1 SPACE/5,000 SF = 2 SPACES
BICYCLE PARKING PROVIDED:	2 SPACES
EXISTING IMPERVIOUS AREA:	0 SF
PROPOSED IMPERVIOUS AREA:	37,378 SF, 0.86 AC (49%)
TREE COVERAGE:	0 SF
TOTAL DISTURBED AREA:	75,240 SF/1.73 AC
OPEN SPACE REQUIRED (MIN.): (PER LDO SEC. 6.2.1.D.3)	5% OF GROSS SITE AREA = 3,806 SF
OPEN SPACE PROVIDED:	12,328 SF OF ACTIVE USE AREA

PARKING REQUIREMENTS:

PARKING REQUIRED: DAY CARE		
MINIMUM: 2.5/1,000 SF = 11,112/1,000*2.5	28 SPACES	
MAXIMUM: 5/1,000 SF = 11,112/1,000*5	56 SPACES	
TOTAL REQUIRED PARKING:	38 SPACES	
REQUIRED HANDICAP PARKING:	2 SPACES	
PARKING PROVIDED:	49 SPACES (INCL. 2 H/C)	

GENERAL NOTES

- ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN OF ROLESVILLE, CITY OF RALEIGH, WAKE COUNTY, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
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- ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.

SPECIAL USE STANDARDS: DAY CARE (LDO SEC. 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.
 - OUTDOOR PLAY AREAS AND PLAYGROUNDS SHALL BE FENCED WITH A MINIMUM SIX (6) FOOT FENCE.
- COMPLIANCE: PARKING SPOTS ADJACENT TO BUILDING ARE TO BE RESERVED FOR DROP OFF AND PICK UP. PARENTS ARE REQUIRED TO PARK IN ORDER TO CHECK IN THEIR CHILDREN INSIDE.
- COMPLIANCE: PROPOSED EXTERIOR FENCING IS SIX (6) FOOT HIGH. PROPOSED INTERIOR FENCING IS FOUR (4) FOOT HIGH.

FLOODPLAIN NOTE:

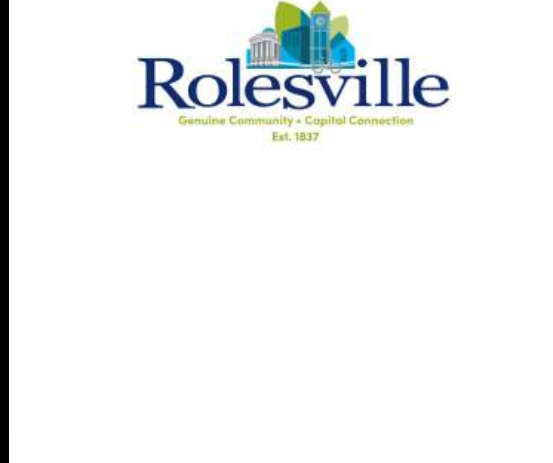
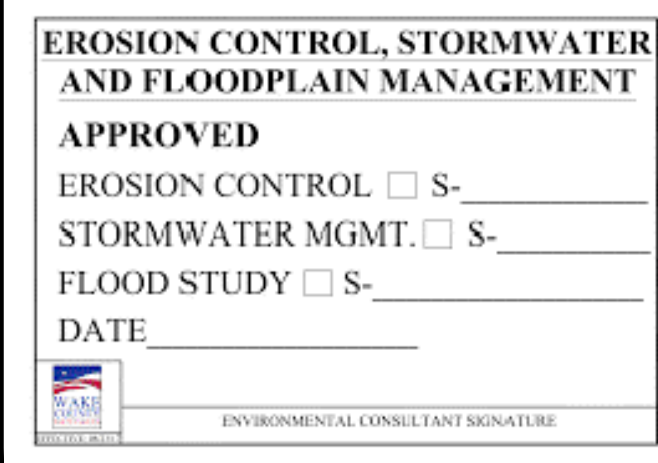
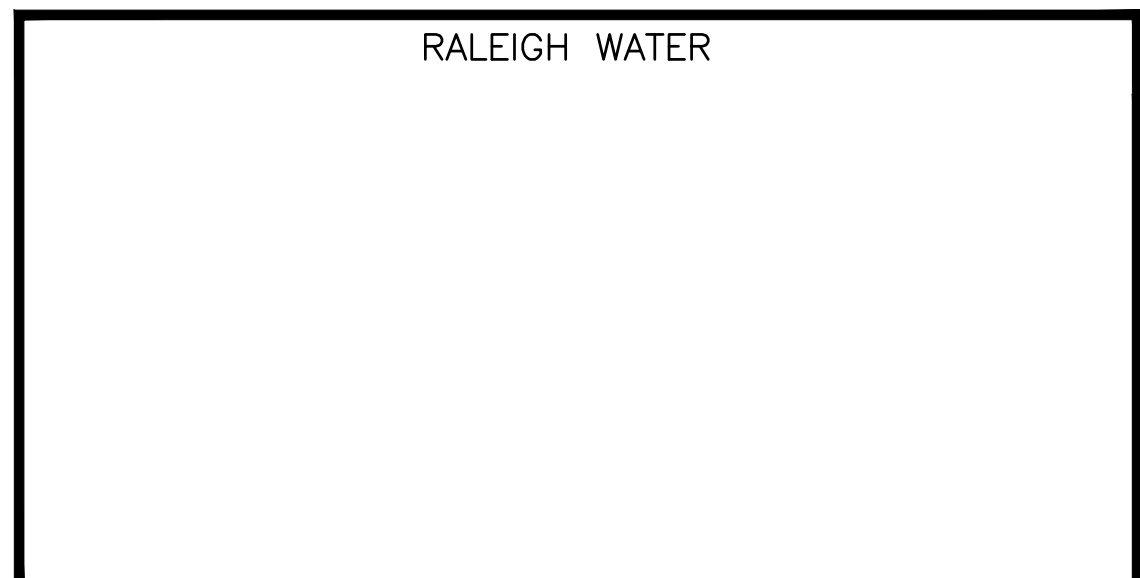
- THIS PROPERTY IS LOCATED OUTSIDE THE WAKE COUNTY 100 YEAR FUTURE CONDITIONS FLOODPLAIN (1% FUTURE CONDITIONS FLOODPLAIN).
- FEMA REFERENCE DATA:
FEMA FIRM PANEL No.: 3720175800K
EFFECTIVE DATE: JULY 19, 2022
- THIS SITE IS NOT IN ANY SPECIAL FLOOD HAZARD AREAS OR FUTURE CONDITIONS FLOOD HAZARD AREAS, AS SHOWN ON FIRM PANEL 3720175800K DATED JULY 19, 2022

ATTENTION CONTRACTORS

The Construction Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Utilities Department at (919) 996-4540 at least twenty four hours prior to beginning any of their construction.

Failure to notify both City Departments 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.

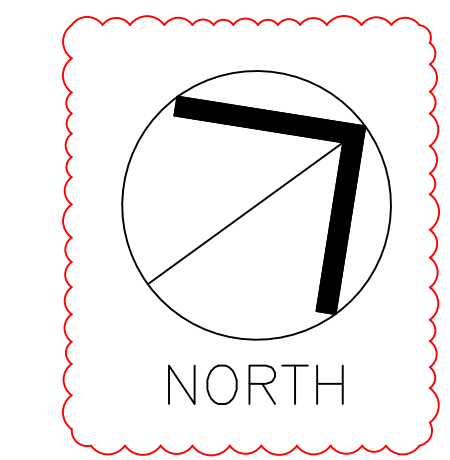


CIVIL ENGINEER (PRIMARY CONTACT):
SAMUEL R. NYE, PE
THE SITE GROUP, PLLC
1111 OBERLIN ROAD
RALEIGH, NC 27605
PHONE: (919) 835-4787
EMAIL: SRN@THESITEGROUP.NET

LANDSCAPE ARCHITECT:
BRANDON D. MOORE, RLA
THE SITE GROUP, PLLC
1111 OBERLIN ROAD
RALEIGH, NC 27605
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EMAIL: BDM@THESITEGROUP.NET

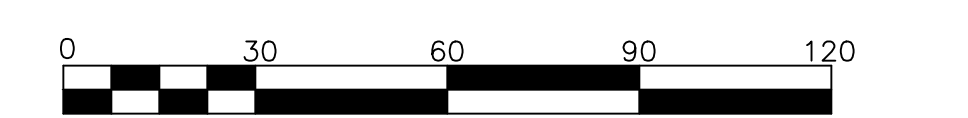
SURVEYOR:
L. JORDAN PARKER, PLS
CMP PROFESSIONAL LAND SURVEYORS, PC
333 S. WHITE STREET
WAKE FOREST, NC 27587
PHONE: (919) 556-3148
EMAIL: JORDAN@CMPPLS.COM

OWNER/DEVELOPER:
SARUJY SHARMA
2111 WINTERBORNE DRIVE
CARY, NC 27519
PHONE: (216) 334-6615
EMAIL: sarujy.sharma@kiddieacademy.net



COVER SHEET

SCALE: 1" = 30' (DRAWING SCALED FOR 24x36 INCH PLOTS)



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E-Mail: SRN@thesitegroup.net

SITE DEVELOPMENT PLAN (SDP-26-0001) FOR:
**KIDDIE ACADEMY
LOT 4 AT WALLBROOK**
851 S MAIN ST
ROLESVILLE, NORTH CAROLINA

Drawn By: LLF
Checked By: SRN

DATE: 30 JAN 2026
REVISED:
27 MAR 2026

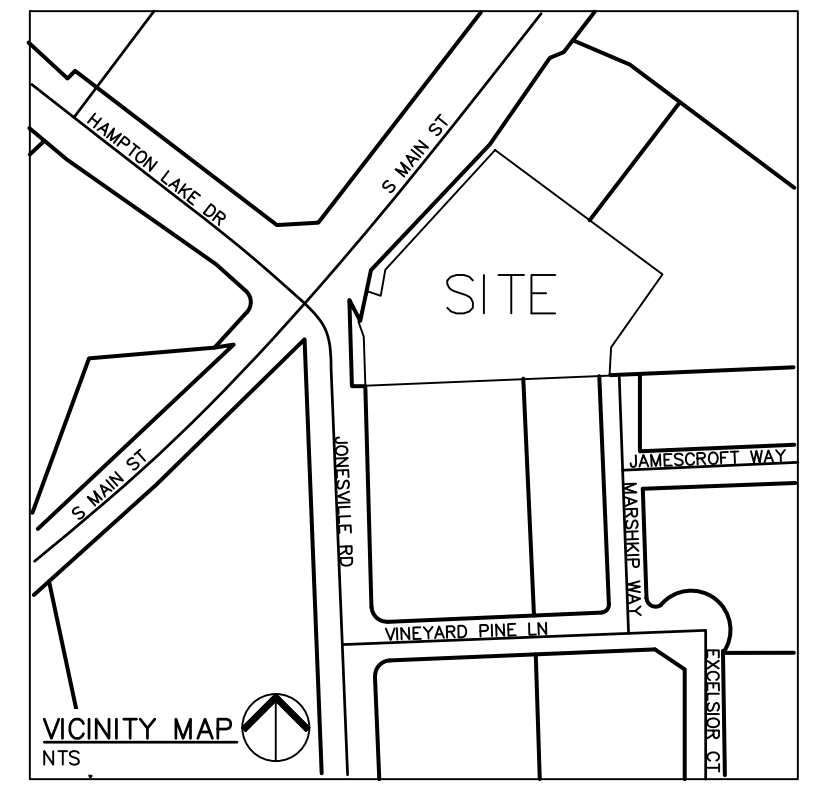
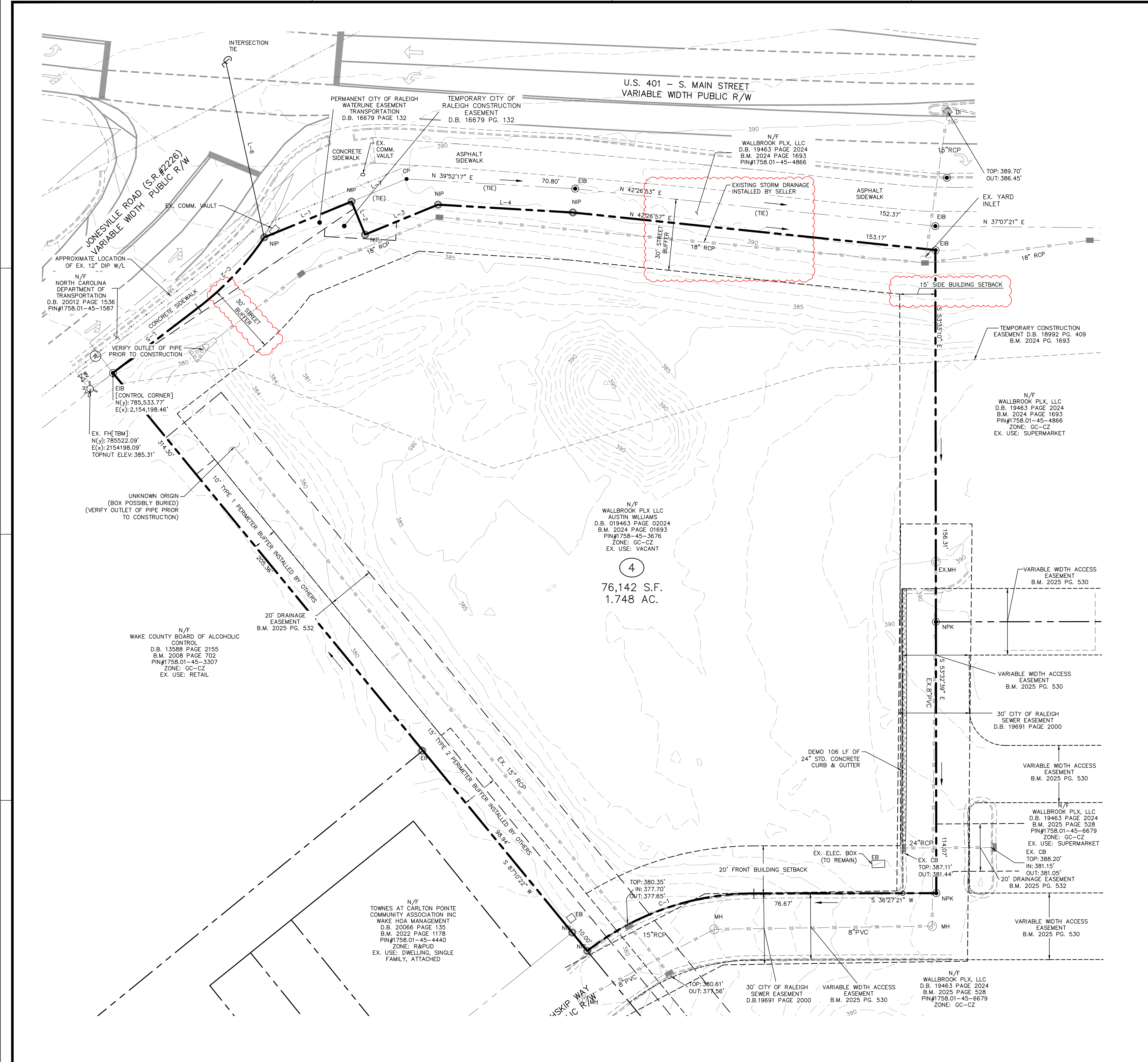
SITE DEVELOP. PLAN

COVER SHEET

Job Code: SSRCC

Dwg No. SITE 001

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LINE LEGEND

---	PROPERTY BOUNDARY
- - - -	ADJACENT BOUNDARY
- . - . -	EXISTING R/W
- . . . -	FUTURE R/W
- - - - -	POND/CREEK
- - - - -	EXISTING SANITARY SEWER
- - - - -	EXISTING WATER LINE
- - - - -	EXISTING STORMWATER
- - - - -	EXISTING GAS LINE
- - - - -	EXISTING OVERHEAD UTILITY
- - - - -	EXISTING COMMUNICATION
- - - - -	EXISTING UNDERGROUND ELECTRIC
- - - - -	EXISTING TOPO MAJOR
- - - - -	EXISTING TOPO MINOR
- - - - -	PROPOSED TOPO MAJOR
- - - - -	PROPOSED TOPO MINOR
- - - - -	EXISTING CENTERLINE
- - - - -	EXISTING RIPARIAN BUFFER
- - - - -	EXISTING FLOOD HAZARD AREA
- - - - -	EXISTING WETLAND AREA
- - - - -	EXISTING FENCE
- - - - -	PROPOSED STORM DRAIN LINE
- - - - -	LIMITS OF DISTURBANCE
- - - - -	SILT/TREE PROTECTION FENCE

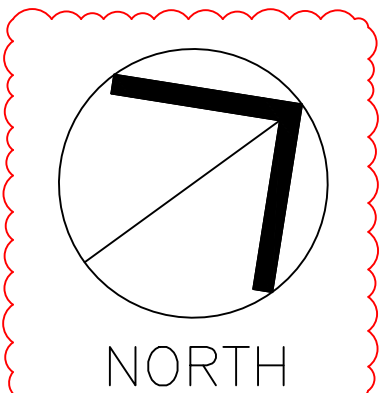
LINE TABLE

LINE	BEARING	DISTANCE
L-1	N 14°13'53" E	39.66'
L-2	S 75°46'07" E	15.00'
L-3	N 14°13'53" E	33.14'
L-4	N 39°52'17" E	56.74'
L-5	N 00°52'59" W	45.18'
L-6	N 65°49'01" W	75.66'
L-7	N 14°13'53" E	24.99'

CURVE TABLE

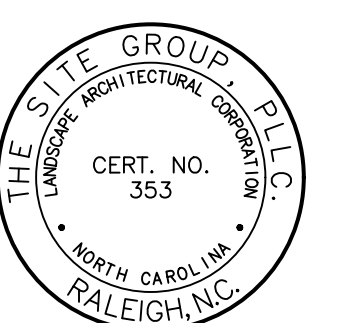
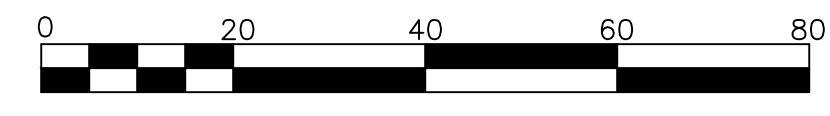
CURVE	ARC LENGTH	RADIUS	CHORD LENGTH	CHORD BEARING
C-1	75.45'	114.00'	74.08'	S 17°29'39" W
C-2	40.68'	123.92'	40.50'	N 10°17'16" W

- GENERAL NOTES**
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EXISTING CONDITIONS & DEMO PLAN

SCALE: 1" = 20' (DRAWING SCALED FOR 24x36 INCH PLOTS)



NC ENGINEERING LICENSE NO. P-0803



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 RALEIGH, NC 27605-1136 USA
 Office: 919.835.4787
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SITE DEVELOPMENT PLAN (SDP-26-0001) FOR:
KIDDIE ACADEMY
LOT 4 AT WALLBROOK
 851 S. MAIN ST.
 ROLESVILLE, NORTH CAROLINA

Drawn By: **BRK**
 Checked By: **SRN**

DATE:
 30 JAN 2026

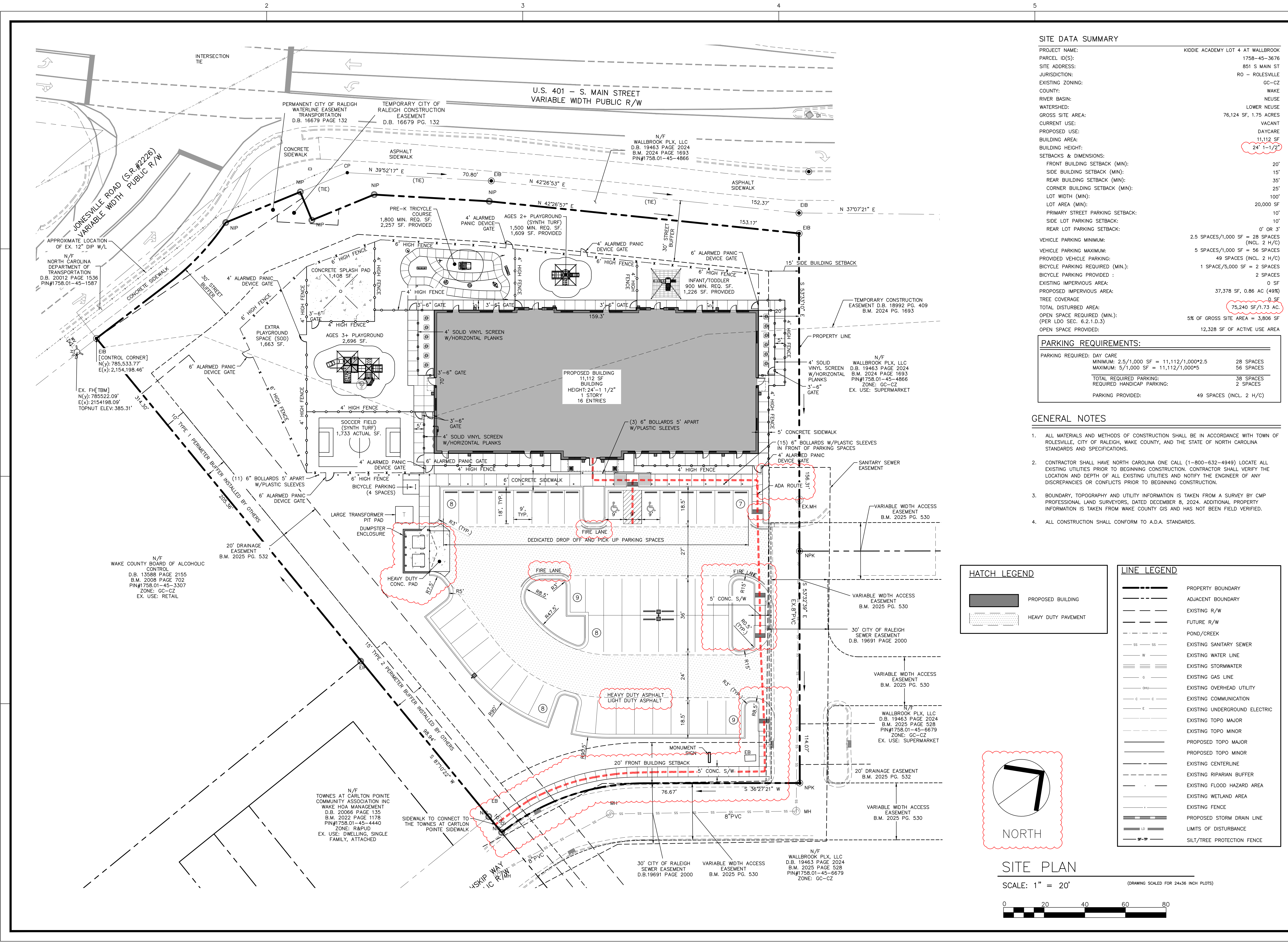
CONSTRUCTION DOCUMENT

EXISTING CONDITIONS & DEMO PLAN

Job Code: **SSRC**

Dwg No.
SITE 100

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SITE DATA SUMMARY

PROJECT NAME:	KIDDIE ACADEMY LOT 4 AT WALLBROOK
PARCEL ID(S):	1758-45-3676
SITE ADDRESS:	851 S MAIN ST
JURISDICTION:	RO - ROLESVILLE
EXISTING ZONING:	GC-CZ
COUNTY:	WAKE
RIVER BASIN:	NEUSE
WATERSHED:	LOWER NEUSE
GROSS SITE AREA:	76,124 SF, 1.75 ACRES
CURRENT USE:	VACANT
PROPOSED USE:	DAYCARE
BUILDING AREA:	11,112 SF
BUILDING HEIGHT:	24' 1-1/2"
SETBACKS & DIMENSIONS:	
FRONT BUILDING SETBACK (MIN):	20'
SIDE BUILDING SETBACK (MIN):	15'
REAR BUILDING SETBACK (MIN):	35'
CORNER BUILDING SETBACK (MIN):	25'
LOT WIDTH (MIN):	100'
LOT AREA (MIN):	20,000 SF
PRIMARY STREET PARKING SETBACK:	10'
SIDE LOT PARKING SETBACK:	10'
REAR LOT PARKING SETBACK:	0' OR 3'
VEHICLE PARKING MINIMUM:	2.5 SPACES/1,000 SF = 28 SPACES (INCL. 2 H/C)
VEHICLE PARKING MAXIMUM:	5 SPACES/1,000 SF = 56 SPACES
PROVIDED VEHICLE PARKING:	49 SPACES (INCL. 2 H/C)
BICYCLE PARKING REQUIRED (MIN.):	1 SPACE/5,000 SF = 2 SPACES
BICYCLE PARKING PROVIDED:	2 SPACES
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PROPOSED IMPERVIOUS AREA:	37,378 SF, 0.86 AC (49%)
TREE COVERAGE:	0 SF
TOTAL DISTURBED AREA:	75,240 SF/1.73 AC
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OPEN SPACE PROVIDED:	12,328 SF OF ACTIVE USE AREA

PARKING REQUIREMENTS:	
PARKING REQUIRED: DAY CARE	
MINIMUM: 2.5/1,000 SF = 11,112/1,000*2.5	28 SPACES
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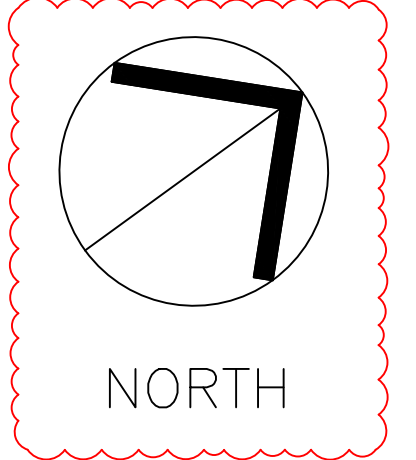
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HATCH LEGEND

[Solid Grey Box]	PROPOSED BUILDING
[Dotted Box]	HEAVY DUTY PAVEMENT

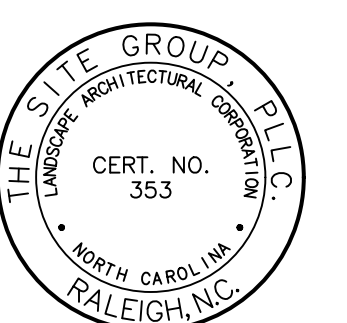
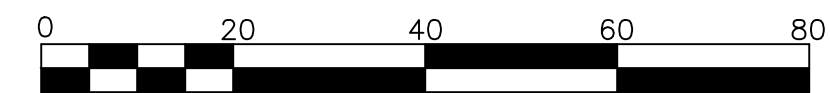
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[Line with 'P']	PROPOSED TOPO MAJOR
[Line with 'p']	PROPOSED TOPO MINOR
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[Line with 'T']	SILT/TREE PROTECTION FENCE



SITE PLAN

SCALE: 1" = 20'



NO ENGINEERING LICENSE NO. P-0803



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 THE SITE GROUP, PLLC
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 Fax: 919.839.2255
 E-Mail: SRN@thesitegroup.net

SITE DEVELOPMENT PLAN (SDP-26-0001) FOR:
KIDDIE ACADEMY LOT 4 AT WALLBROOK
 851 S MAIN ST
 ROLESVILLE, NORTH CAROLINA

Drawn By: **BRK**
 Checked By: **SRN**

DATE: 30 JAN 2026
 REVISED: Δ 27 MAR 2026

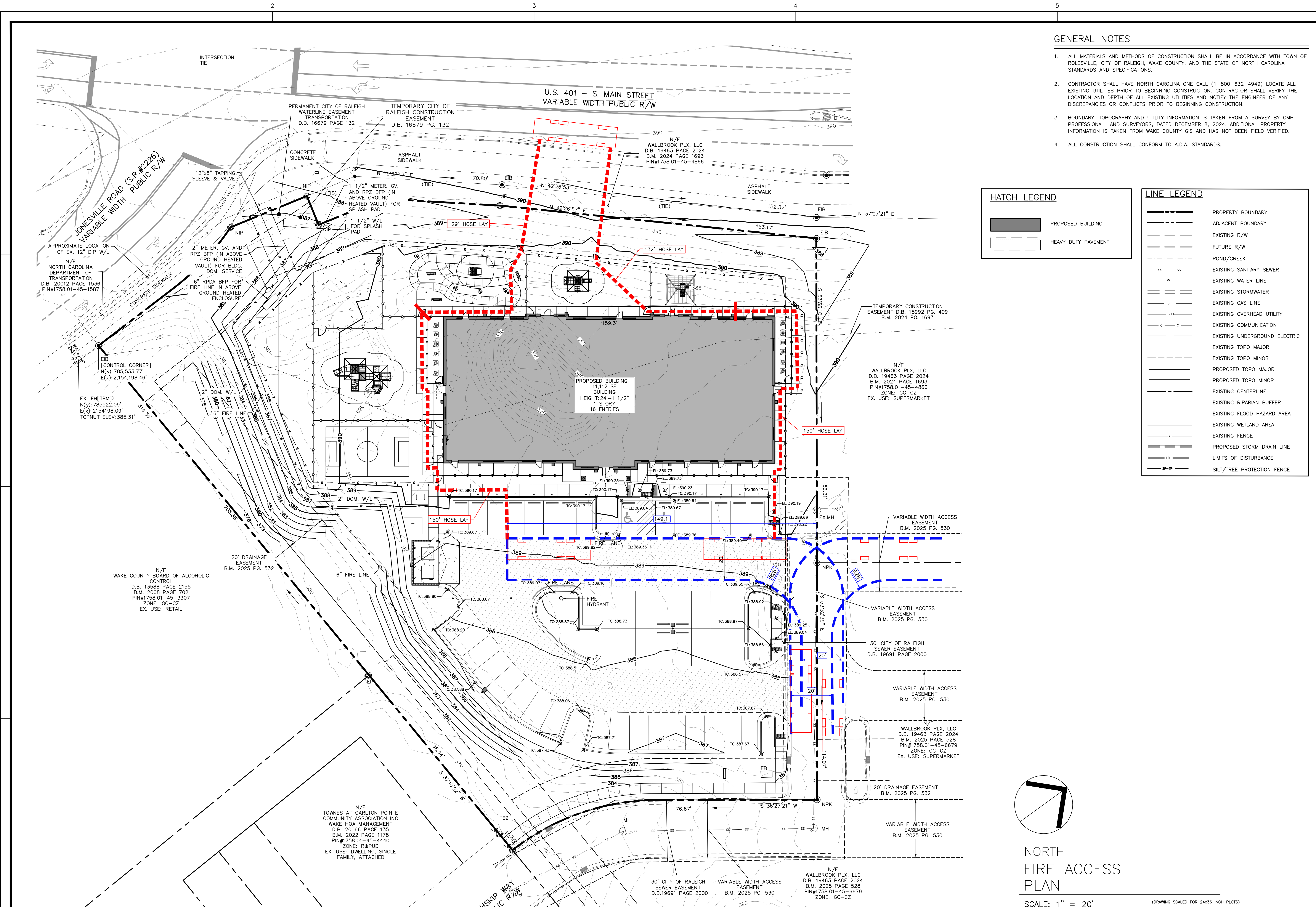
CONSTRUCTION DOCUMENT

SITE PLAN

Job Code: **SSRC**

Dwg No. **SITE 200**

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GENERAL NOTES

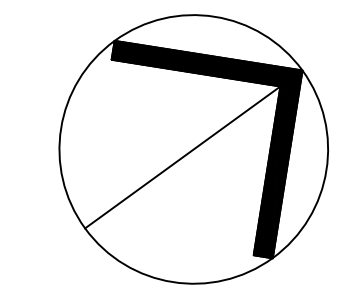
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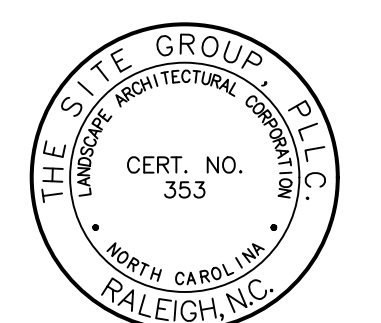
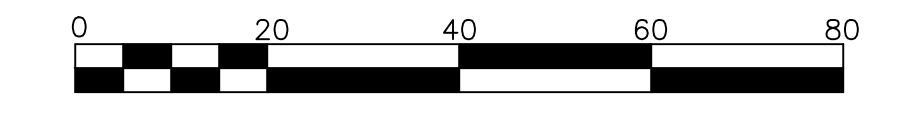
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[Dashed Line]	SILT/TREE PROTECTION FENCE



**NORTH
FIRE ACCESS
PLAN**

SCALE: 1" = 20' (DRAWING SCALED FOR 24x36 INCH PLOTS)



NC ENGINEERING LICENSE No. P-0803



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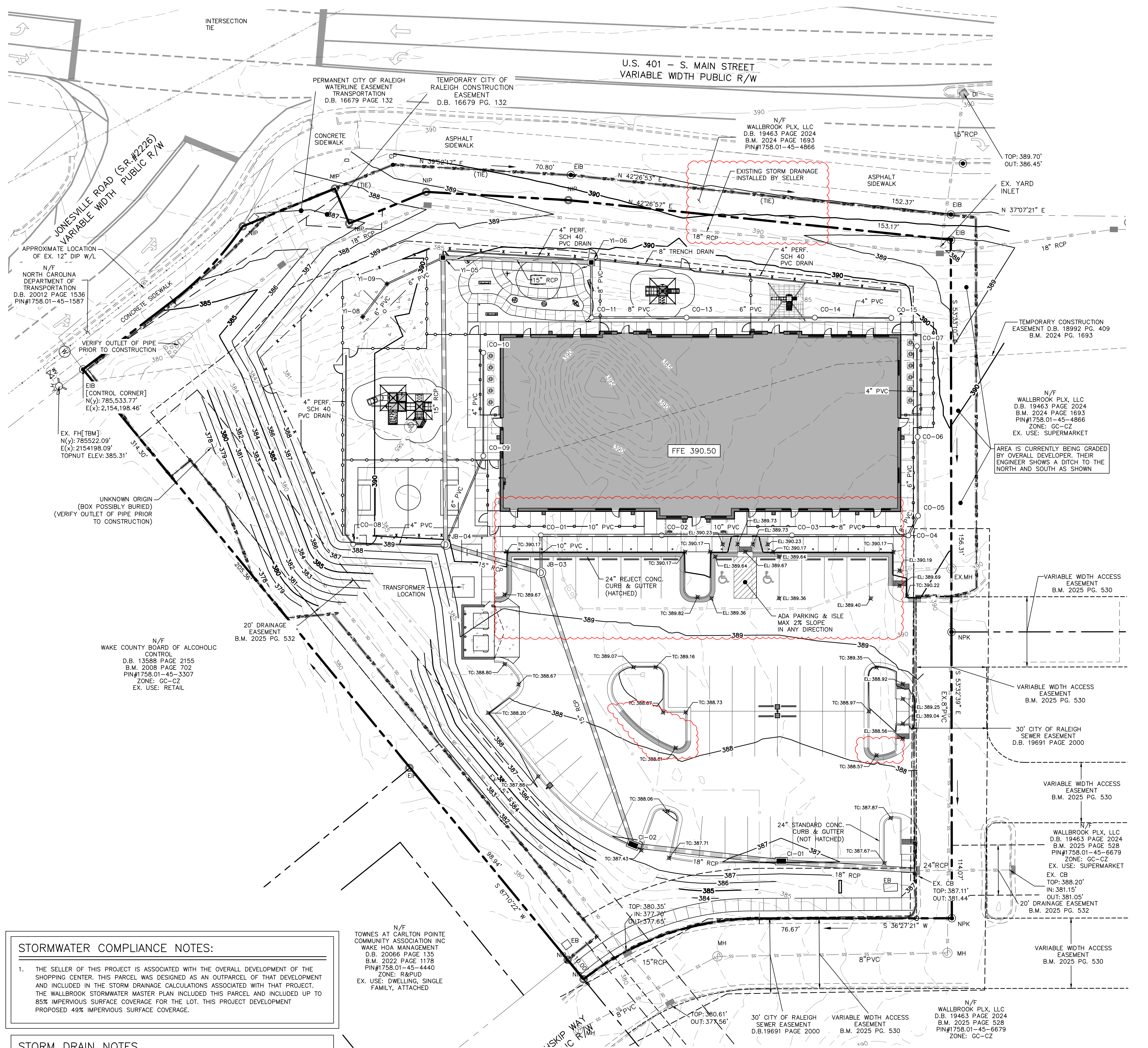
CONSTRUCTION DOCUMENT

FIRE ACCESS PLAN

Job Code: **SSRCC**

Dwg No.
**SITE
 201**

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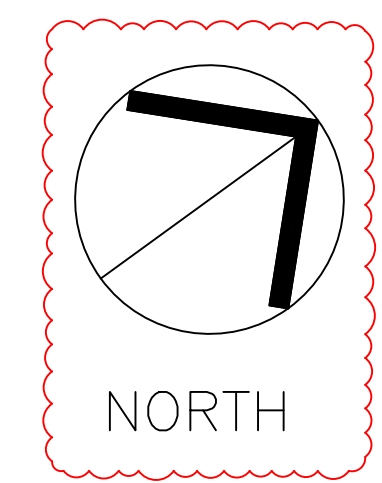


- ### GENERAL NOTES
- ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN OF ROLESVILLE, CITY OF RALEIGH, WAKE COUNTY, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
 - CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (1-800-632-4949) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
 - BOUNDARY, TOPOGRAPHY AND UTILITY INFORMATION IS TAKEN FROM A SURVEY BY CMP PROFESSIONAL LAND SURVEYORS, DATED DECEMBER 8, 2024. ADDITIONAL PROPERTY INFORMATION IS TAKEN FROM WAKE COUNTY GIS AND HAS NOT BEEN FIELD VERIFIED.
 - ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.

- ### GRADING NOTES
- ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN OF ROLESVILLE, CITY OF RALEIGH, WAKE COUNTY, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING, COORDINATING, AND PAYMENT FOR ALL NECESSARY LOCATING SERVICES INCLUDING INDEPENDENT LOCATING SERVICES. THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES LOCATED AT LEAST 48 HOURS PRIOR TO BEGINNING DEMOLITION, EXCAVATION, OR ANY OTHER FORM OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OR ANY DISCREPANCIES OR CONFLICTS.
 - EXISTING IMPROVEMENTS DAMAGED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED OR REPLACED TO ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL PERMITS, INSPECTIONS, CERTIFICATIONS, AND OTHER REQUIREMENTS WHICH MUST BE MET UNDER THIS CONTRACT ARE OBTAINED.
 - IF DEPARTURES FROM THE PROJECT DRAWINGS OR SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREFOR SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW PRIOR TO CONSTRUCTION. NO DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE OWNER'S REPRESENTATIVE.
 - THE ENGINEER DISCLAIMS ANY ROLE IN THE CONSTRUCTION MEANS AND/OR METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
 - THE STREETS IN FRONT OF THE PROJECT WILL BE KEPT CLEAN AT ALL TIMES OR A WASH STATION WILL BE REQUIRED.
 - A TEMPORARY CONSTRUCTION EASEMENT WILL BE REQUIRED FROM THE ADJACENT OWNER, SONAL PATEL, 734-259-9289 PRIOR TO CONSTRUCTION. THIS DRIVEWAY IS BEING BUILT TO SERVE, BOTH PROPERTY OWNERS, WHO HAVE MET AND AGREED ON THE SHARED LOCATION.

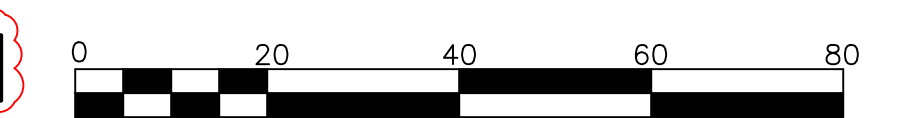
LINE LEGEND

	PROPERTY BOUNDARY
	ADJACENT BOUNDARY
	EXISTING R/W
	FUTURE R/W
	POND/CREEK
	EXISTING SANITARY SEWER
	EXISTING WATER LINE
	EXISTING STORMWATER
	EXISTING GAS LINE
	EXISTING OVERHEAD UTILITY
	EXISTING COMMUNICATION
	EXISTING UNDERGROUND ELECTRIC
	EXISTING TOPO MAJOR
	EXISTING TOPO MINOR
	PROPOSED TOPO MAJOR
	PROPOSED TOPO MINOR
	EXISTING CENTERLINE
	EXISTING RIPARIAN BUFFER
	EXISTING FLOOD HAZARD AREA
	EXISTING WETLAND AREA
	EXISTING FENCE
	PROPOSED STORM DRAIN LINE
	LIMITS OF DISTURBANCE
	SILT/TREE PROTECTION FENCE



GRADING PLAN

SCALE: 1" = 20' (DRAWING SCALED FOR 24x36 INCH PLOTS)



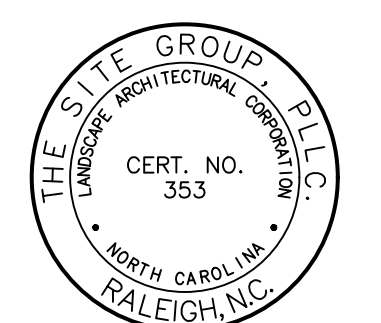
STORMWATER COMPLIANCE NOTES:

- THE SELLER OF THIS PROJECT IS ASSOCIATED WITH THE OVERALL DEVELOPMENT OF THE SHOPPING CENTER. THIS PARCEL WAS DESIGNED AS AN OUTPARCEL OF THAT DEVELOPMENT AND INCLUDED IN THE STORM DRAINAGE CALCULATIONS ASSOCIATED WITH THAT PROJECT. THE WALLBROOK STORMWATER MASTER PLAN INCLUDED THIS PARCEL AND INCLUDED UP TO 85% IMPERVIOUS SURFACE COVERAGE FOR THE LOT. THIS PROJECT DEVELOPMENT PROPOSED 49% IMPERVIOUS SURFACE COVERAGE.

STORM DRAIN NOTES

- STORM DRAINAGE PIPING LABELED "PVC" SHALL BE SCHEDULE 40 PVC.

DISTURBED AREA = 75,240 SF. (1.73 AC.)



NC ENGINEERING LICENSE NO. P-0803



THE SITE GROUP
CIVIL ENGINEERS • LANDSCAPE ARCHITECTS

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RALEIGH, NC 27605-1136 USA
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E-Mail: SRN@thesitegroup.net

SITE DEVELOPMENT PLAN (SDP-26-0001) FOR:
**KIDDIE ACADEMY
LOT 4 AT WALLBROOK**
851 S. MAIN ST.
ROLESVILLE, NORTH CAROLINA

Drawn By: **BRK**
Checked By: **SRN**

DATE: 30 JAN 2026
REVISED:
27 MAR 2026

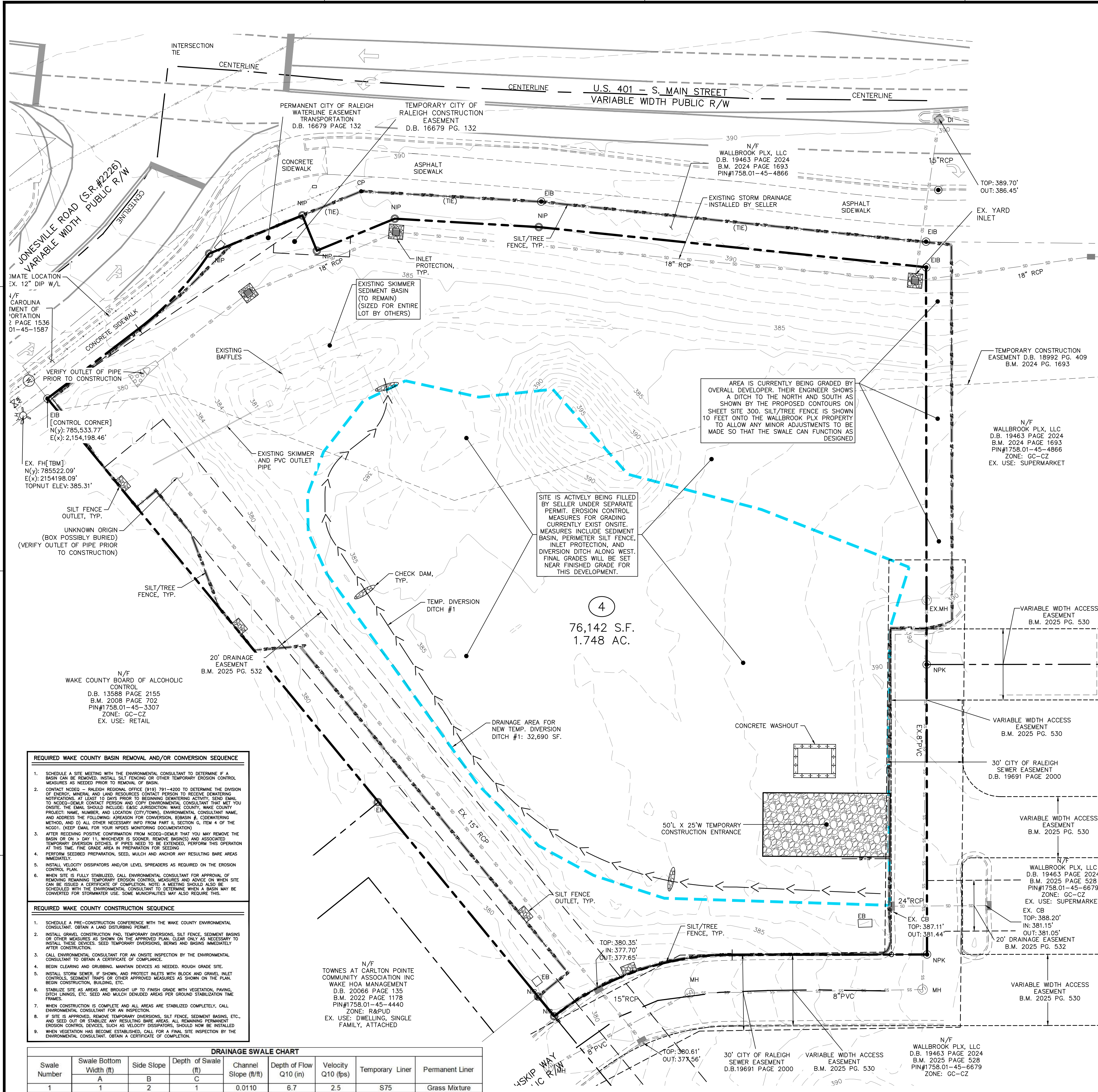
CONSTRUCTION DOCUMENT

GRADING PLAN

Job Code: **SSRC**

Dwg No. **SITE 300**

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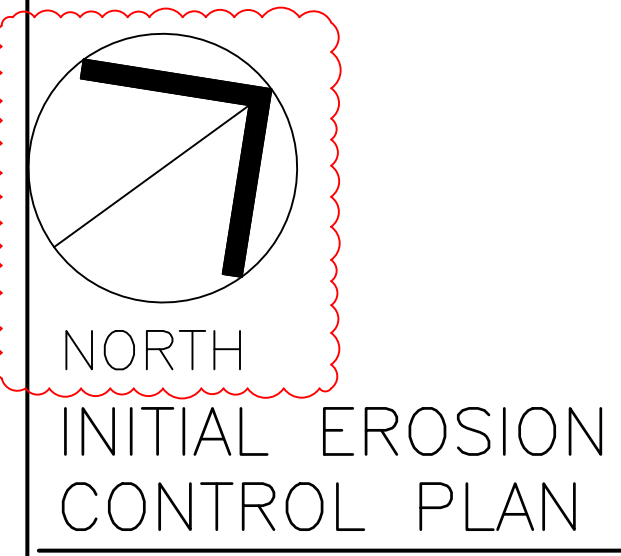
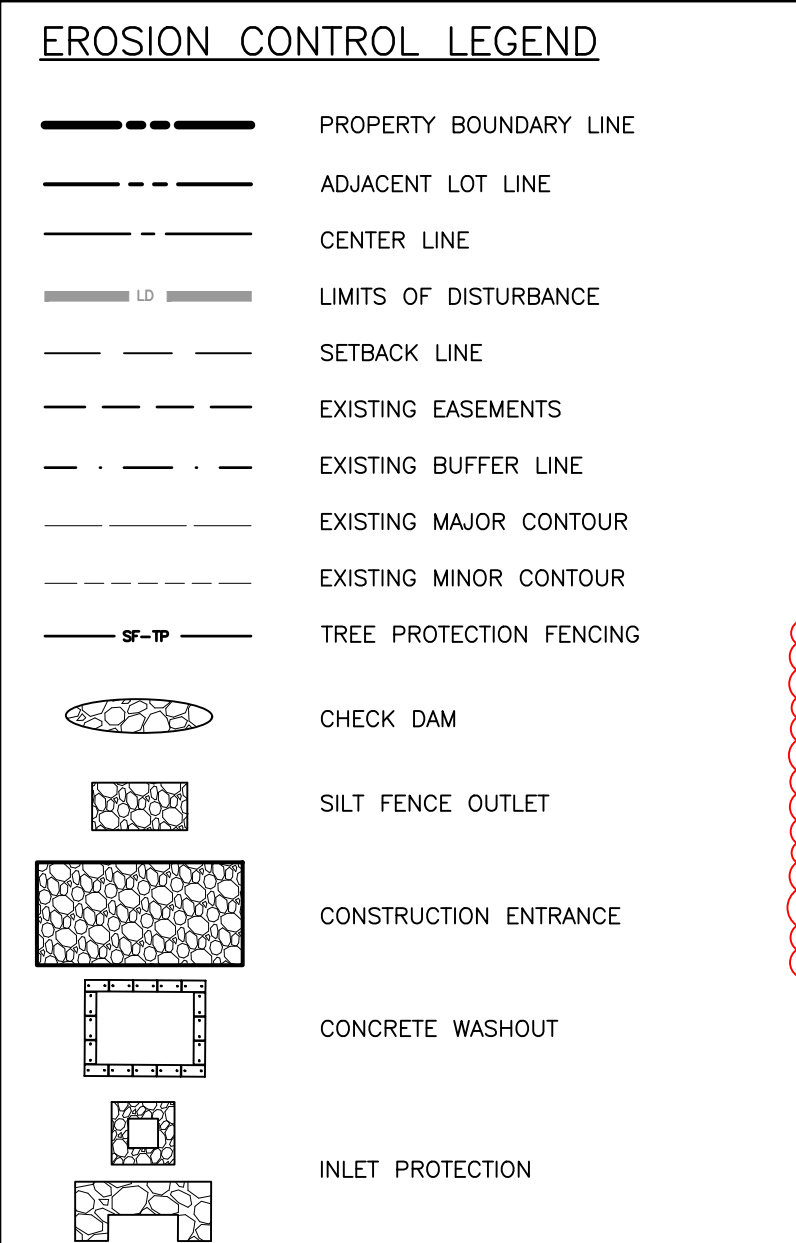
- REQUIRED WAKE COUNTY BASIN REMOVAL AND/OR CONVERSION SEQUENCE**
- SCHEDULE A SITE MEETING WITH THE ENVIRONMENTAL CONSULTANT TO DETERMINE IF A BASIN CAN BE REMOVED. INSTALL SILT FENCING AND OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF BASIN.
 - CONTACT NCEM - RALEIGH REGIONAL OFFICE (919) 791-4300 TO DETERMINE THE DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES CONTACT PERSON TO RECEIVE REMOVAL NOTIFICATIONS. AT LEAST 10 DAYS PRIOR TO BEGINNING DEMOLITION ACTIVITY, SEND EMAIL TO NCEM-EMEA CONTACT PERSON AND COPY ENVIRONMENTAL CONSULTANT THAT YOU WANT TO REMOVE BASIN. THE EMAIL SHOULD INCLUDE: BASIC JURISDICTION; WAKE COUNTY, WAKE COUNTY PROJECT NAME, NUMBER, AND LOCATION (CITY/TOWN); ENVIRONMENTAL CONSULTANT NAME, AND ADDRESS THE FOLLOWING: A) REASON FOR CONVERSION; B) BASIN #; C) DEMOLITION METHOD; AND D) ALL OTHER NECESSARY INFO FROM PART II, SECTION C, ITEM 4 OF THE NCEM. (KEEP EMAIL FOR YOUR INFRA MONITORING DOCUMENTATION)
 - AFTER RECEIVING POSITIVE CONFIRMATION FROM NCEM-EMEA THAT YOU MAY REMOVE THE BASIN OR ON > DAY 11, WHOEVER IS SOONER, REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DRAINAGE DITCHES, IF APPLICABLE TO BE EXTENDED, PERFORM THIS OPERATION AT THIS TIME. FINE GRADE AREA IN PREPARATION FOR SEEDING.
 - PERFORM SEEDBED PREPARATION, SEED, MULCH AND INCHOR ANY RESULTING BARE AREAS IMMEDIATELY.
 - INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
 - WHEN SITE IS FULLY STABILIZED, CALL ENVIRONMENTAL CONSULTANT FOR APPROVAL OF REMOVAL OF REMAINING TEMPORARY EROSION CONTROL MEASURES AND ADVISE ON WHEN SITE CAN BE ISSUED A CERTIFICATE OF COMPLETION. NOTE: A MEETING SHOULD ALSO BE SCHEDULED WITH THE ENVIRONMENTAL CONSULTANT TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE. SOME MUNICIPALITIES MAY ALSO REQUIRE THIS.
- REQUIRED WAKE COUNTY CONSTRUCTION SEQUENCE**
- SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE WAKE COUNTY ENVIRONMENTAL CONSULTANT. OBTAIN A LAND DISTURBING PERMIT.
 - INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
 - CALL ENVIRONMENTAL CONSULTANT FOR AN ONSITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT TO OBTAIN A CERTIFICATE OF COMPLIANCE.
 - BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
 - INSTALL STORM SEWER, IF SHOWN, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS. SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.
 - STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH GRADED AREAS FOR GROUND STABILIZATION TIME FRAMES.
 - WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL ENVIRONMENTAL CONSULTANT FOR AN INSPECTION.
 - IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED.
 - WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT. OBTAIN A CERTIFICATE OF COMPLETION.

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DRAINAGE SWALE CHART

Swale Number	Swale Bottom Width (ft)		Side Slope	Depth of Swale (ft)	Channel Slope (ft/ft)	Depth of Flow Q10 (in)	Velocity Q10 (fps)	Temporary Liner	Permanent Liner
	A	B							
1	1	2	1	1	0.0110	6.7	2.5	S75	Grass Mixture

NOTE: LINER MATERIAL TO BE NORTH AMERICAN GREENTENSAR OR APPROVED EQUAL



DISTURBED AREA = 75,240 SF. (1.73 AC.)

GENERAL NOTES

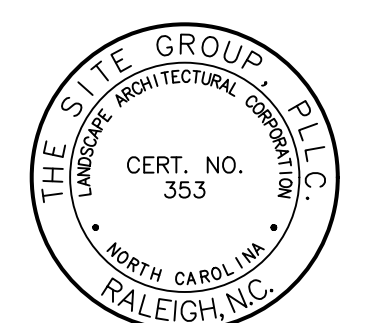
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- THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION IS SCHEDULED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY (CO). THE FENCING SHALL BE REMOVED IMMEDIATELY PRIOR TO THE FINAL SITE INSPECTION FOR THE SITE.
- TREE PROTECTION FENCING SHALL NOT BE MOVED AND THERE SHALL BE NO ENCROACHMENT INTO SUCH PROTECTED AREA(S) WITHOUT WRITTEN AUTHORIZATION OF THE TOWN'S ZONING COMPLIANCE STAFF. ANY ACTIVITY (LANDSCAPING, FENCING, OR UTILITY INSTALLATION) SHOWN ON THE APPROVED PLANS IN A TREE PROTECTION AREA, SHALL ALSO NOT OCCUR WITHOUT WRITTEN AUTHORIZATION FROM THE TOWN'S ZONING COMPLIANCE STAFF. ANY UNAUTHORIZED ENCROACHMENT OR DISTURBANCE WITHIN THE BOUNDARIES OF A TREE PROTECTION AREA SHALL AUTOMATICALLY RESULT IN FINES AND THE REPLACEMENT OF ANY DAMAGED VEGETATION IN ACCORDANCE WITH THE LAND DEVELOPMENT ORDINANCE.

CONSTRUCTION SEQUENCE (INITIAL PHASE):

- OBTAIN A LAND DISTURBING PERMIT.
- PRIOR TO BEGINNING CONSTRUCTION, CALL THE STORMWATER INSPECTOR TO SCHEDULE AN ON-SITE PRECONSTRUCTION MEETING.
- CLEAR ONLY AS NECESSARY TO INSTALL ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE INITIAL EROSION CONTROL PLAN:
 - INSTALL CONSTRUCTION ENTRANCE.
 - INSTALL SILT FENCING AND SILT FENCE OUTLETS.
 - INSTALL DIVERSION DITCH.
 - INSTALL INLET PROTECTION ON EXISTING SD STRUCTURES.
- VERIFY EXISTING BASIN MINIMUM DIMENSIONS SHOWN ON PLANS, BAFFLES ARE WELL MAINTAINED, AND SKIMMER IS CLEAR AND PLACED ON EXISTING STONE BED.
- SCHEDULE A SITE INSPECTION THROUGH WAKE COUNTY.
- UPON APPROVAL OF THE STORMWATER SITE INSPECTION, BEGIN GRADING AND UTILITY SCOPE.
- INSTALL U/G UTILITIES, STORMWATER PIPES, INLETS, ROAD BEDS, CURB AND GUTTER AND BEGIN BUILDING CONSTRUCTION. AS STORMDRAIN INLETS AND PIPING ARE INSTALLED, PROVIDE INLET PROTECTION [NOTE THAT OFFSITE SEDIMENT THROUGH THE SD NETWORK WILL GO DIRECTLY TO EXISTING WET DETENTION BASIN THAT IS INSTALLED AND CONVERTED. TAKE EXTRA CARE TO AVOID SEDIMENT GETTING INTO THE EXISTING STORM DRAINAGE SYSTEM.]
- MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN GOOD WORKING ORDER. SILT FENCE, INLET PROTECTION AND OTHER SIMILAR MEASURES MUST BE CLEANED OUT BEFORE THEY ARE HALF FULL. CLOGGED STONE FILTERS MUST BE REFRESHED/REPLACED. SILT FENCE CAN NOT HAVE HOLES OR TEARS.
- STABILIZATION IS REQUIRED WITHIN 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING AND INACTIVITY ON PROJECT SITE.
- SUBMIT DOCUMENTATION REQUIRED UNDER THE SITE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY (NCG10000) TO STORMWATER INSPECTIONS THROUGHOUT THE PROJECT.
- WHEN PROJECT CONSTRUCTION HAS BEEN COMPLETED TO THE POINT WHERE THE EXISTING SKIMMER BASIN MUST BE REMOVED TO CONTINUE, SCHEDULE A SITE INSPECTION THROUGH WAKE COUNTY.
- UPON APPROVAL OF THE STORMWATER SITE INSPECTION, REMOVE THE EXISTING SEDIMENT SKIMMER BASIN AND STABILIZE BASIN AREA.
- PROCEED TO FINAL EROSION CONTROL PLAN SCOPE OF WORK. SEE SITE 303.



NO ENGINEERING LICENSE NO. P-0803



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SITE DEVELOPMENT PLAN (SDP-26-0001) FOR:
**KIDDIE ACADEMY
 LOT 4 AT WALLBROOK**
 851 S. MAIN ST.
 ROLLETSVILLE, NORTH CAROLINA

Drawn By: **CJB**
 Checked By: **BDM**

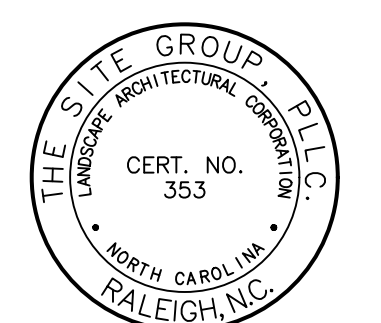
DATE: 30 JAN 2026
 REVISED: 27 MAR 2026

SITE DEVELOP. PLAN

INITIAL EROSION CONTROL PLAN

Job Code: **SSRCC**

Dwg No. **SITE 301**



NO ENGINEERING LICENSE NO. P-0803



GENERAL NOTES

- ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF APEX, WAKE COUNTY, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
- CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (811) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
- BOUNDARY, TOPOGRAPHY AND UTILITY INFORMATION IS TAKEN FROM A SURVEY BY PENNONI ASSOCIATES, DATED JUNE 20, 2023. ADDITIONAL PROPERTY INFORMATION IS TAKEN FROM APPROVED PLANS FOR ARDEN AT SUMMIT PINES FUD. ADDITIONAL OFFSITE INFORMATION TAKEN FROM WAKE COUNTY GIS AND HAS NOT BEEN FIELD VERIFIED.
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EROSION CONTROL NOTES

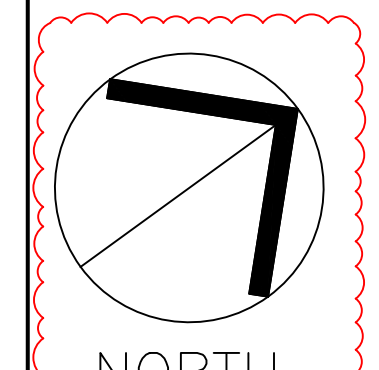
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CONSTRUCTION SEQUENCE (FINAL PHASE):

- CONTINUED FROM SHEET SITE 301
- MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN GOOD WORKING ORDER. SILT FENCE, INLET PROTECTION AND OTHER SIMILAR MEASURES MUST BE CLEANED OUT BEFORE THEY ARE HALF FULL. CLOGGED STONE FILTERS MUST BE REFRESHED/REPLACED. SILT FENCE CAN NOT HAVE HOLES OR TEARS.
 - CALL SAM NYE AT 919-835-4787 FOR SITE INSPECTION A MINIMUM TWO WEEKS PRIOR TO REQUESTING TOWN FINAL INSPECTION.
 - ONCE APPROVED, SURVEY EXISTING SCM TOPO AND STRUCTURE ELEVATIONS.
 - AS-BUILTS MUST BE COMPLETED AND SUBMITTED ONE WEEK PRIOR TO FINAL INSPECTION.
 - STABILIZATION IS REQUIRED WITHIN 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING OR INACTIVITY ON PROJECT SITE.
 - SCHEDULE THE FINAL SITE INSPECTION THROUGH WAKE COUNTY.
 - SUBMIT DOCUMENTATION REQUIRED UNDER THE SITE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY (NCG10000) TO STORMWATER INSPECTIONS THROUGHOUT THE PROJECT.

EROSION CONTROL LEGEND

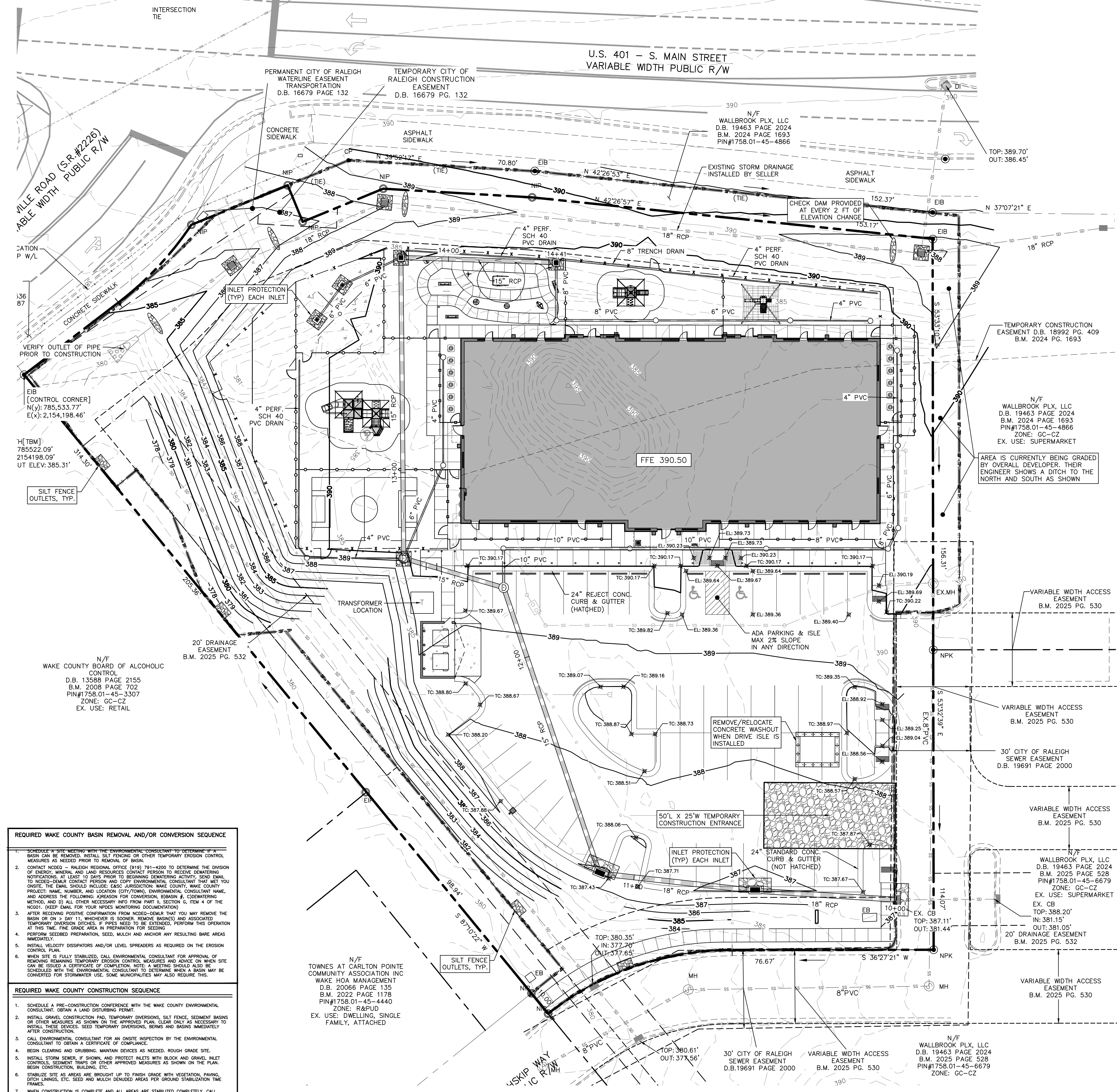
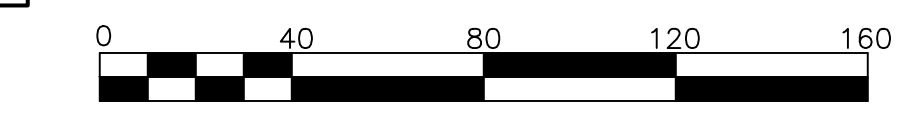
	PROPERTY BOUNDARY LINE
	ADJACENT LOT LINE
	CENTER LINE
	LIMITS OF DISTURBANCE
	SETBACK LINE
	EXISTING EASEMENTS
	EXISTING BUFFER LINE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	TREE PROTECTION FENCING
	CHECK DAM
	SILT FENCE OUTLET
	CONSTRUCTION ENTRANCE
	CONCRETE WASHOUT
	INLET PROTECTION



FINAL EROSION CONTROL PLAN

SCALE: 1" = 40' (DRAWING SCALED FOR 24x36 INCH PLOTS)

DISTURBED AREA = 75,240 SF. (1.73 AC.)



REQUIRED WAKE COUNTY BASIN REMOVAL AND/OR CONVERSION SEQUENCE

- SCHEDULE A SITE MEETING WITH THE ENVIRONMENTAL CONSULTANT TO DETERMINE IF A BASIN CAN BE REMOVED. INSTALL SILT FENCING OR OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF BASIN.
- CONTACT NEEDED - RALEIGH REGIONAL OFFICE (919) 791-4000 TO DETERMINE THE DIVISION OF ENERGY, MINERAL AND LAND RESOURCES CONTACT PERSON TO RECEIVE DEMOLITION NOTIFICATIONS AT LEAST 10 DAYS PRIOR TO BEGINNING DEMOLITION ACTIVITY. SEND EMAIL TO REGIONAL CONTACT PERSON AND CITY ENVIRONMENTAL CONSULTANT THAT MEET YOU ONLINE. THE EMAIL SHOULD INCLUDE BASIC INFORMATION: PROJECT NAME, WAKE COUNTY PROJECT NAME, NUMBER, AND LOCATION (CITY/TOWN), ENVIRONMENTAL CONSULTANT NAME, AND ADDRESS THE FOLLOWING: A) REASON FOR CONVERSION, B) BASIN #, C) DEMOLITION METHOD, AND D) ALL OTHER NECESSARY INFO FROM PART II, SECTION 5, ITEM 4 OF THE NSD01. KEEP EMAIL FOR YOUR NPDES MONITORING DOCUMENTATION.
- AFTER RECEIVING POSITIVE CONFIRMATION FROM NEEDED-CLEAR THAT YOU MAY REMOVE THE BASIN OR ON > DAY 11, WHICHEVER IS SOONER, REMOVE BASINS AND ASSOCIATED TEMPORARY DEMOLITION. IF NPDES NEED TO BE EXTENDED, PERFORM THIS OPERATION AT THIS TIME. FINE GRADE AREA IN PREPARATION FOR SEEDING.
- PERFORM SEEDING PREPARATION, SEED, MULCH AND ANCHOR ANY RESULTING BARE AREAS IMMEDIATELY.
- INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
- WHEN SITE IS FULLY STABILIZED, CALL ENVIRONMENTAL CONSULTANT FOR APPROVAL OF REMOVAL. REMAINING TEMPORARY EROSION CONTROL MEASURES AND ADVISE ON WHEN SITE CAN BE ISSUED A CERTIFICATE OF COMPLETION. NOTE: A MEETING SHOULD ALSO BE SCHEDULED WITH THE ENVIRONMENTAL CONSULTANT TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE. SOME MUNICIPALITIES MAY ALSO REQUIRE THIS.

REQUIRED WAKE COUNTY CONSTRUCTION SEQUENCE

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

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SITE DEVELOPMENT PLAN (SDP-26-0001) FOR:
KIDDIE ACADEMY
LOT 4 AT WALLBROOK
 851 S. MAIN ST.
 ROLESVILLE, NORTH CAROLINA

Drawn By: **CJB**
 Checked By: **BDM**

DATE: 30 JAN 2026
 REVISED: 27 MAR 2026

SITE DEVELOP. PLAN
FINAL EROSION CONTROL PLAN

Job Code: **SSRCC**

Dwg No. **SITE 302**

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GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT
 Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes		
Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none"> Temporary grass seed covered with straw or other mulches and tackifiers Hydroseeding Roller erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting 	<ul style="list-style-type: none"> Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Roller erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
- Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
- Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
- Provide ponding area for containment of treated Stormwater before discharging offsite.
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

- EQUIPMENT AND VEHICLE MAINTENANCE**
- Maintain vehicles and equipment to prevent discharge of fluids.
 - Provide drip pans under any stored equipment.
 - Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
 - Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
 - Remove leaking vehicles and construction equipment from service until the problem has been corrected.
 - Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- Never bury or burn waste. Place litter and debris in approved waste containers.
- Provide a sufficient number and size of waste containers (e.g. dumpster, trash receptacle) on site to contain construction and domestic wastes.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
- Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- Dispose waste off-site at an approved disposal facility.
- On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

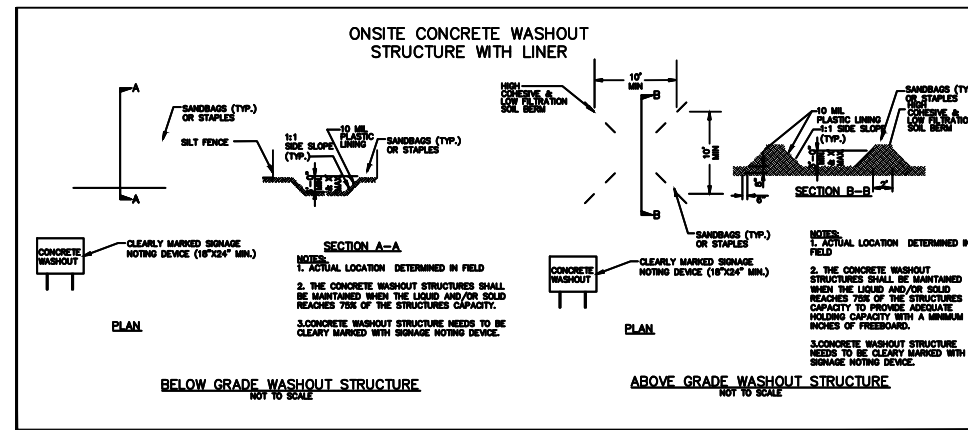
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site.
- Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
- Provide staking or anchoring of portable toilets during periods of high winds or in high traffic areas.
- Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.



CONCRETE WASHOUTS

- Do not discharge concrete or cement slurry from the site.
- Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
- Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
- Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
- Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
- Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
- Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

- Create designated hazardous waste collection areas on-site.
- Place hazardous waste containers under cover or in secondary containment.
- Do not store hazardous chemicals, drums or bagged materials directly on the ground.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (and this will determine if a site inspection is needed). Days in which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Indication of whether the measures were operating properly. 5. Description of maintenance needs for the measure. 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge (outfall, EDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration. 5. Indication of visible sediment leaving the site. 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits. 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item 2(j) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover) 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation
 The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site
 In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- This General Permit as well as the Certificate of Coverage, after it is received.
- Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years
 All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

- Visible sediment deposition in a stream or wetland.
- Oil spills if:
 - They are 25 gallons or more,
 - They are less than 25 gallons but cannot be cleaned up within 24 hours,
 - They cause sheen on surface waters (regardless of volume), or
 - They are within 100 feet of surface waters (regardless of volume).
- Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- Anticipated bypasses and unanticipated bypasses.
- Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 856-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. If the stream is named on the <i>NC 303(d) List</i> as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(j)(7)]	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. [40 CFR 122.41(j)(6). Division staff may waive the requirement for a written report on a case-by-case basis.

PART II, SECTION G, ITEM (4) DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items.
- The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item 2(c) and (d) of this permit.
- Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems.
- Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in item (c) above.
- Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
- Sediment removed from the dewatering treatment devices described in item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19



NO ENGINEERING LICENSE NO. P-0803



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SITE DEVELOPMENT PLAN (SDP-26-0001) FOR:
KIDDIE ACADEMY
LOT 4 AT WALLBROOK
 851 S MAIN ST.
 ROLESVILLE, NORTH CAROLINA

Drawn By: **CJB**
 Checked By: **BDM**

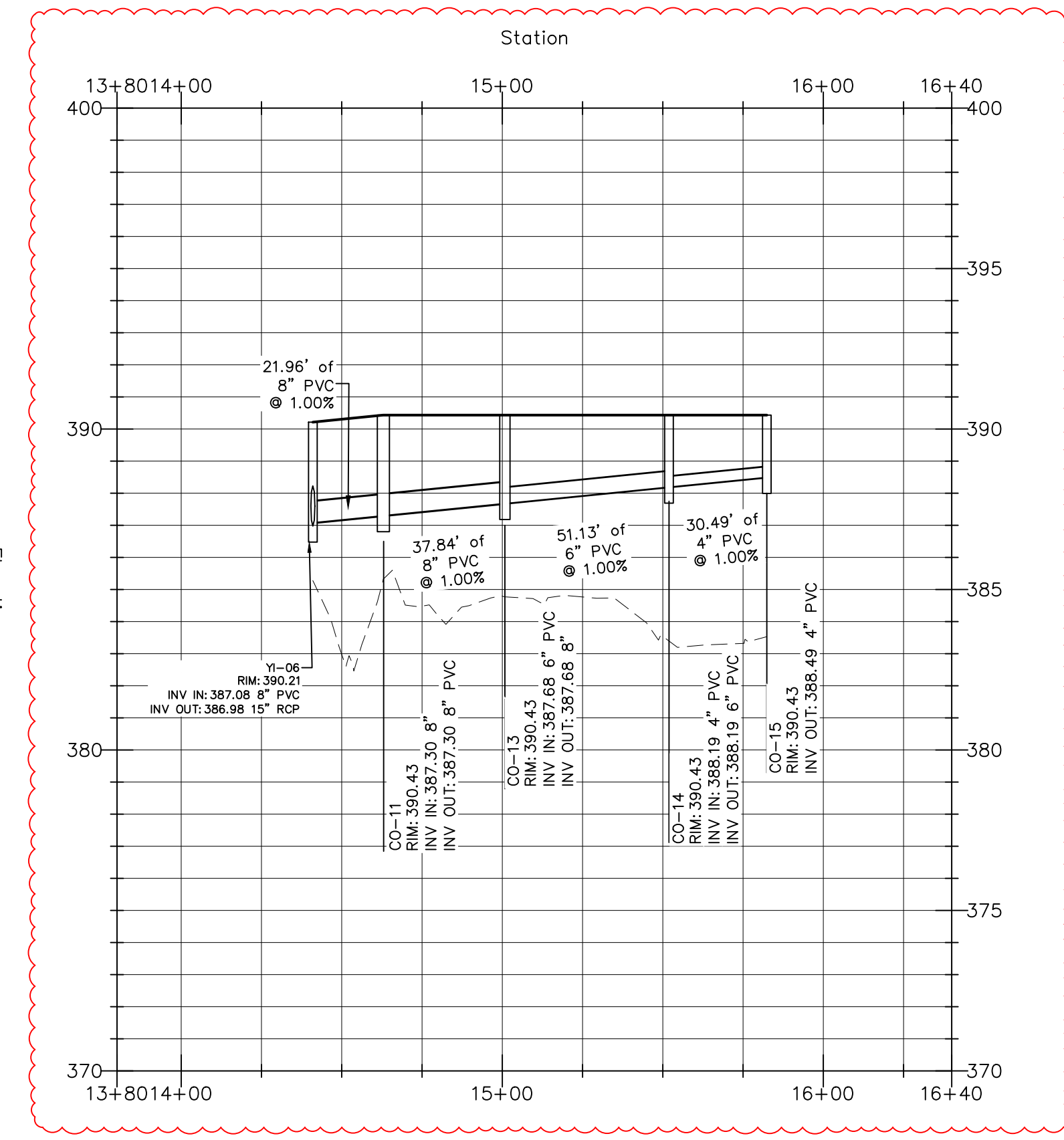
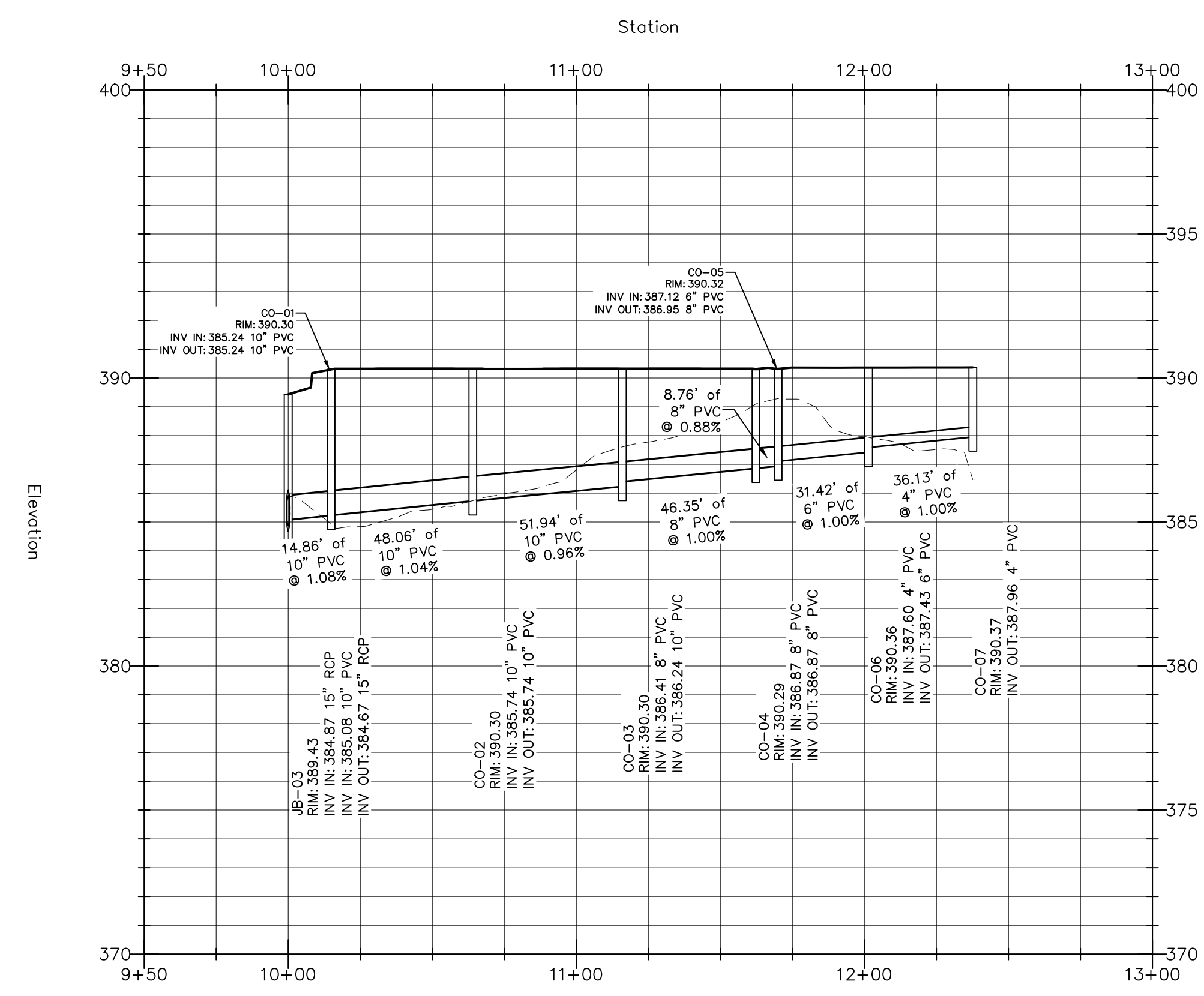
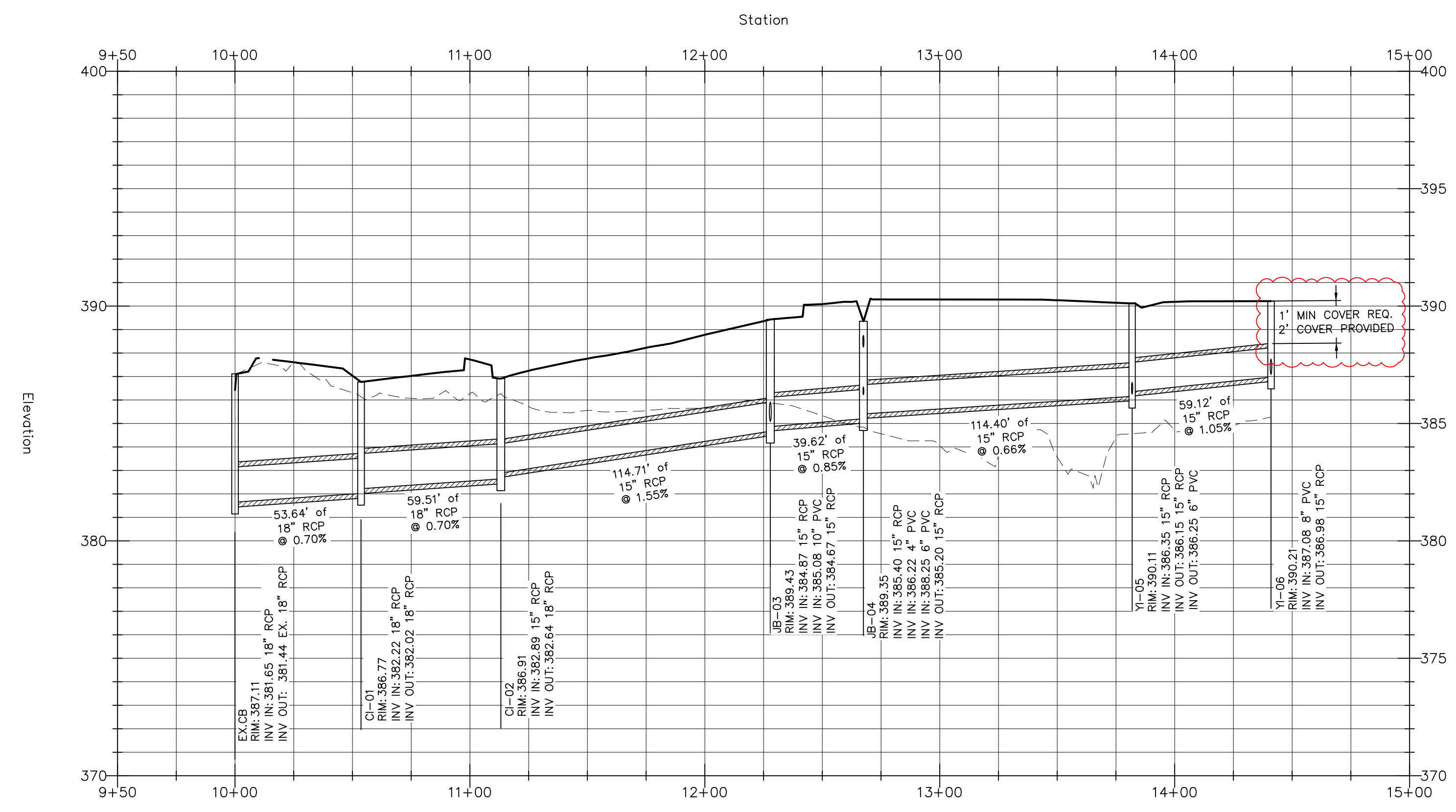
DATE: 30 JAN 2026
 REVISED: 27 MAR 2026

SITE DEVELOPMENT PLAN

NPDES PLAN

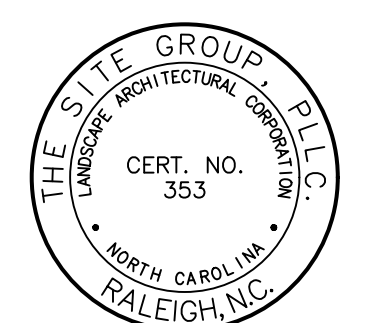
Job Code: **SSRC**

Dwg No. **SITE 303**



GENERAL NOTES

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN OF ROLESVILLE, CITY OF RALEIGH, WAKE COUNTY, AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (1-800-632-4949) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
3. BOUNDARY, TOPOGRAPHY AND UTILITY INFORMATION IS TAKEN FROM A SURVEY BY CMP PROFESSIONAL LAND SURVEYORS, DATED DECEMBER 8, 2024. ADDITIONAL PROPERTY INFORMATION IS TAKEN FROM WAKE COUNTY GIS AND HAS NOT BEEN FIELD VERIFIED.
4. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.



NO ENGINEERING LICENSE NO. P-0803



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SITE DEVELOPMENT PLAN (SDP-26-0001) FOR:
KIDDIE ACADEMY
LOT 4 AT WALLBROOK
 851 S. MAIN ST.
 ROLESVILLE, NORTH CAROLINA

Drawn By: **CJB**
 Checked By: **BDM**

DATE: 30 JAN 2026
 REVISED: 27 MAR 2026

SITE DEVELOPMENT PLAN

STORM DRAINAGE PROFILES

Job Code: **SSRCC**

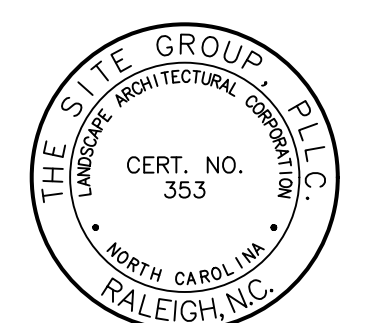
Dwg No. **SITE 304**

ATTENTION CONTRACTORS
 The Construction Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Utilities Department at (919) 996-4540 at least twenty four hours prior to beginning any of their construction.

Failure to notify both City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require installation 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.

- GENERAL NOTES**
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 - CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (1-800-632-4949) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
 - BOUNDARY, TOPOGRAPHY AND UTILITY INFORMATION IS TAKEN FROM A SURVEY BY CMP PROFESSIONAL LAND SURVEYORS, DATED DECEMBER 8, 2024. ADDITIONAL PROPERTY INFORMATION IS TAKEN FROM WAKE COUNTY GIS AND HAS NOT BEEN FIELD VERIFIED.
 - ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.



NC ENGINEERING LICENSE NO. P-0803



STANDARD UTILITY NOTES (AS APPLICABLE):

- ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION).
- 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 WATERMAIN, DIP MATERIALS OR STEEL ENCASMENT 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 WATERMAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS, WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 8" MIN. CLEARANCE (PER CORPUD DETAILS W-41 & S-49).
 - 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.
- DEVELOPER SHALL PROVIDE 30 DAYS ADVANCE WRITTEN NOTICE TO OWNER FOR ANY WORK REQUIRED WITHIN AN EXISTING CITY OF RALEIGH UTILITY EASEMENT TRAVERSING PRIVATE PROPERTY.
- 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.
- SEWER BYPASS PUMPING - A BYPASS PLAN SEALED BY AN NC PROFESSIONAL ENGINEER SHALL BE PROVIDED TO RALEIGH WATER PRIOR TO PUMPING OPERATIONS FOR APPROVAL. THE OPERATIONS AND EQUIPMENT SHALL COMPLY WITH THE PUBLIC UTILITIES HANDBOOK.
- 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 PER CORPUD HANDBOOK PROCEDURE.
- INSTALL 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.
- INSPECTIONS OF 4" AND LARGER WATER MAINS OF THE PRIVATE DISTRIBUTION SYSTEM WILL BE INSPECTED AS PART OF THE INFRASTRUCTURE PERMIT.
- PRIVATE SEWER MAINS AS PART OF A COLLECTION SYSTEM ARE PERMITTED AND INSPECTED UNDER THE PRIVATE INFRASTRUCTURE PERMIT FOR SEWER.
- ANY WATER OR SEWER SERVICES ON PRIVATE PROPERTY THAT WILL BE INSTALLED UNDER CONSTRUCTION DRAWINGS MAY REQUIRE A PLUMBING UTILITY PERMIT IN THE CITY OF RALEIGH. CONSULT WITH THE ENGINEERING INSPECTION COORDINATOR DURING THE PRE-CONSTRUCTION MEETING ON THE NECESSARY PERMITS.
- INSTALL SEWER SERVICES WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED PER THE CURRENT NC PLUMBING CODE.
- 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 NCDWQ, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION.
- NDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION.
- GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE RW FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A UC AND/OR BUILDING PERMIT. CONTACT (919) 996-4516 OR FOG@RALEIGHNC.GOV FOR MORE INFORMATION.
- CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON THE DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA.
- THE DEVICES SHALL MEET THE AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS AND BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST.
- THE DEVICE AND INSTALLATION SHALL MEET THE GUIDELINES OF APPENDIX A - GUIDELINES AND REQUIREMENTS FOR THE CROSS CONNECTION PROGRAM IN RALEIGH'S SERVICE AREA.
- THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH, INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT CROSS.CONNECTION@RALEIGHNC.GOV FOR MORE INFORMATION.
- NOTICE FOR PROJECTS THAT INVOLVE AN OVERSIZED MAIN OR URBAN MAIN REPLACEMENT. ANY CITY REIMBURSEMENT GREATER THAN \$250,000.00 MUST UNDERGO THE PUBLIC BIDDING PROCESS.
- PRIVATE SUB-METERING - NO RESALE OF WATER SHALL OCCUR WITHOUT APPROVAL OF THE NORTH CAROLINA UTILITY COMMISSION. SUB-METERING SHALL BE IN ACCORDANCE WITH SECTION 1400 OF THE "SAFE DRINKING WATER ACT".

THE SITE GROUP
 CIVIL ENGINEERS • LANDSCAPE ARCHITECTS
 THE SITE GROUP, P.L.L.C.
 1111 GARDEN CITY RD.
 RALEIGH, NC 27605-1136 USA
 Office: 919.835.4787
 Fax: 919.839.2255
 E-Mail: SRN@thesitegroup.net

SITE DEVELOPMENT PLAN (SDP-26-0001) FOR:
**KIDDIE ACADEMY
 LOT 4 AT WALLBROOK**
 851 S. MAIN ST.
 ROLESVILLE, NORTH CAROLINA

Drawn By: **BRK**
 Checked By: **SRN**

DATE: 30 JAN 2026
 REVISED: Δ 27 MAR 2026

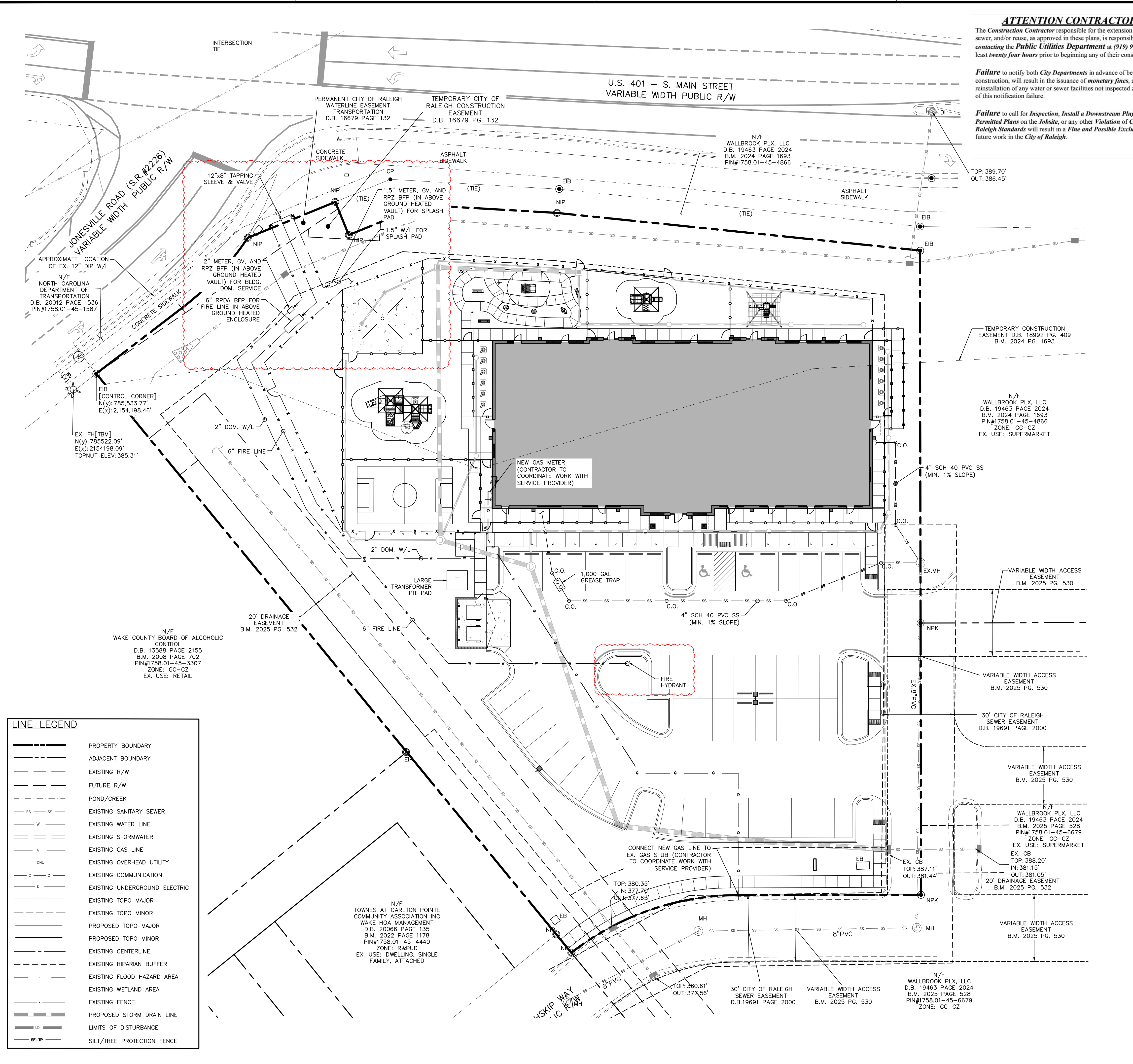
SITE DEVELOP. PLAN

UTILITY PLAN

Job Code: **SSRC**

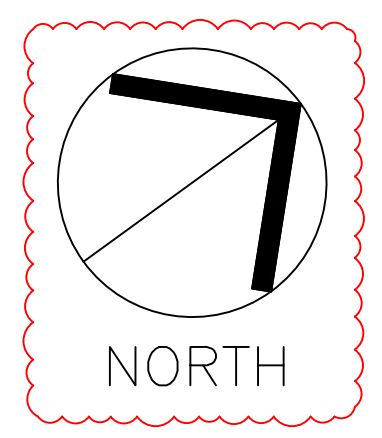
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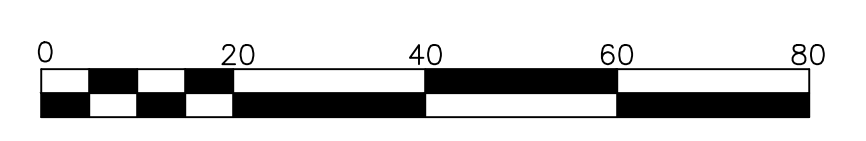
LINE LEGEND

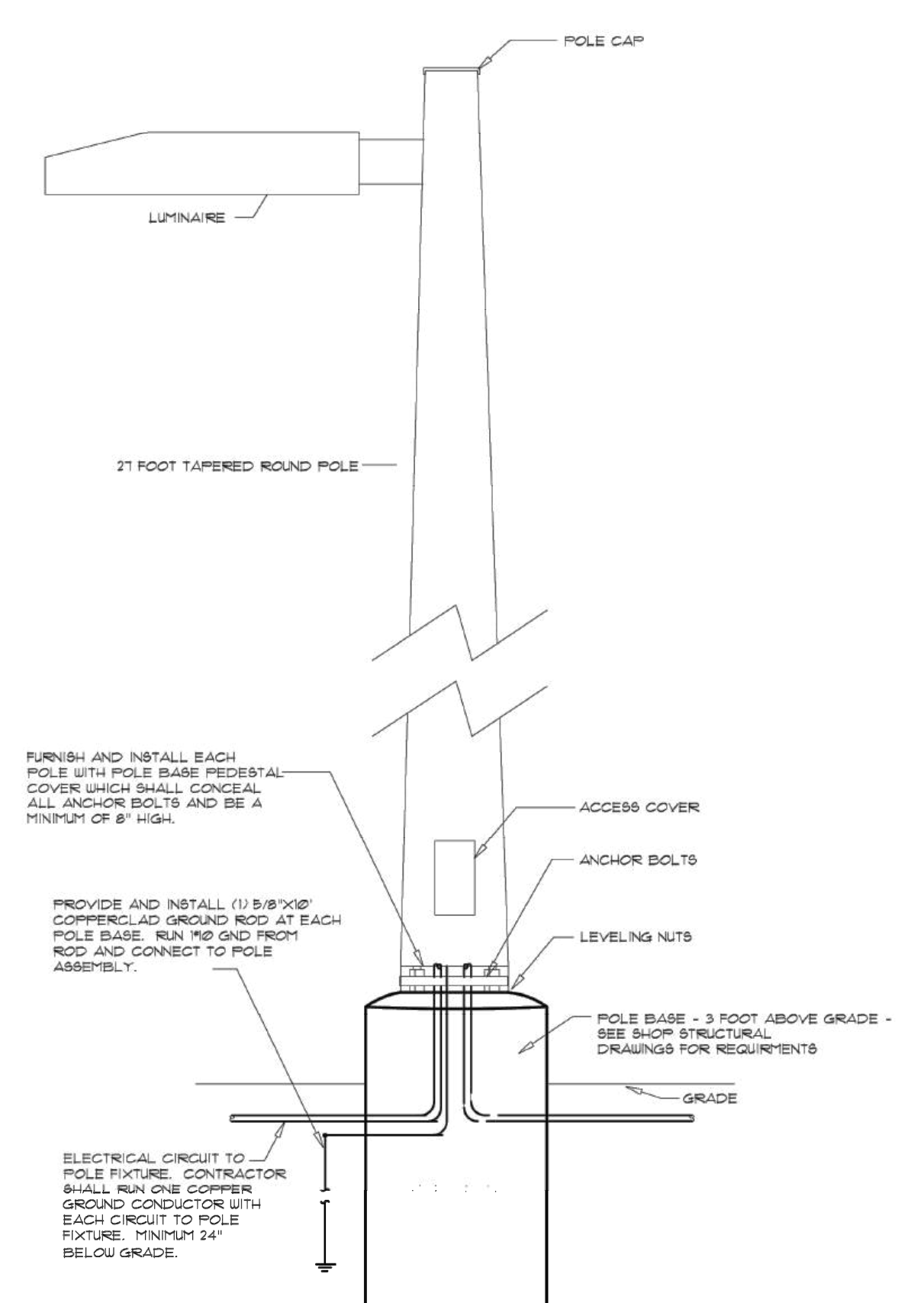
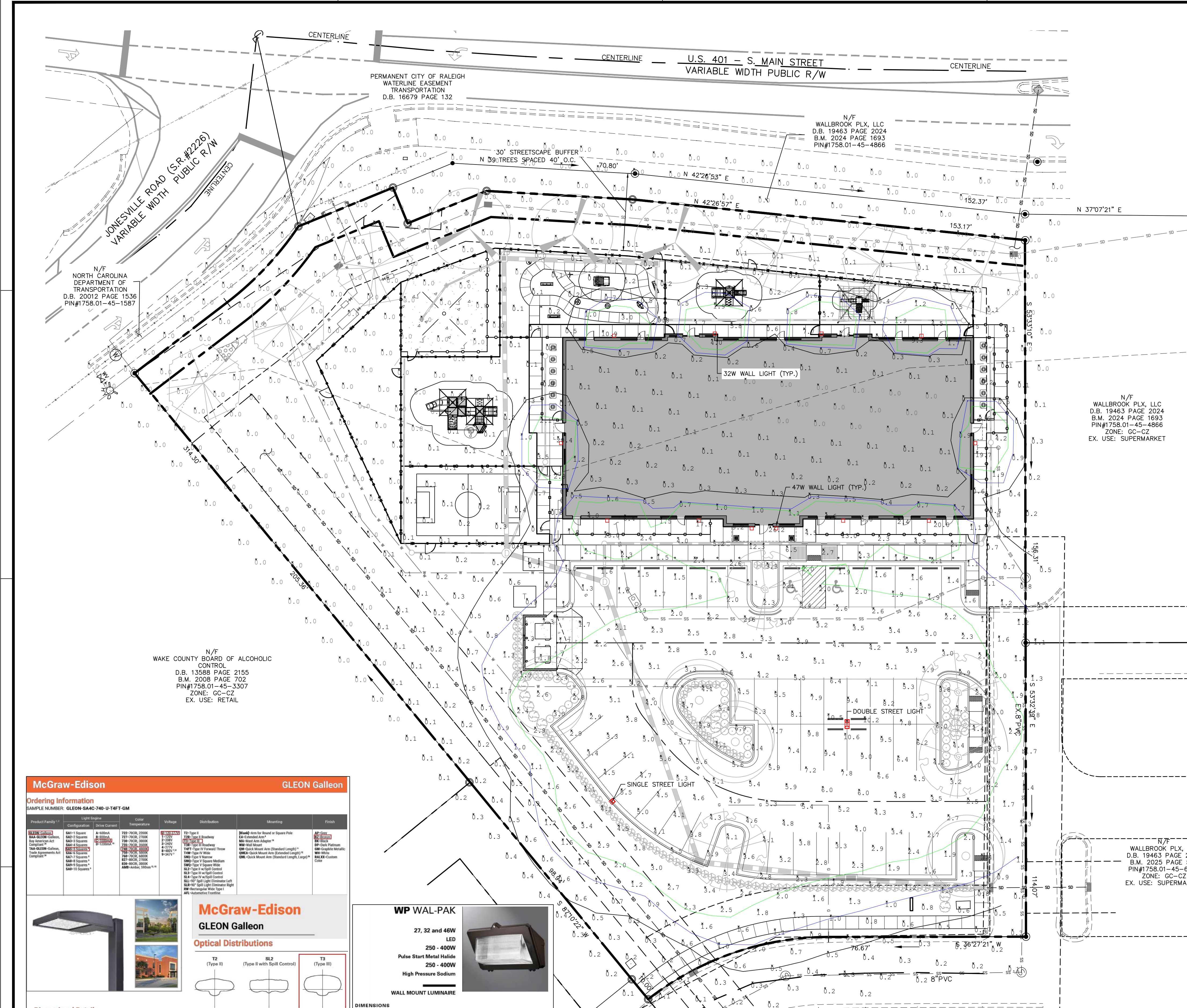
---	PROPERTY BOUNDARY
---	ADJACENT BOUNDARY
---	EXISTING R/W
---	FUTURE R/W
---	POND/CREEK
SS	EXISTING SANITARY SEWER
W	EXISTING WATER LINE
---	EXISTING STORMWATER
G	EXISTING GAS LINE
OHU	EXISTING OVERHEAD UTILITY
C	EXISTING COMMUNICATION
E	EXISTING UNDERGROUND ELECTRIC
---	EXISTING TOPO MAJOR
---	EXISTING TOPO MINOR
---	PROPOSED TOPO MAJOR
---	PROPOSED TOPO MINOR
---	EXISTING CENTERLINE
---	EXISTING RIPARIAN BUFFER
---	EXISTING FLOOD HAZARD AREA
---	EXISTING WETLAND AREA
---	EXISTING FENCE
---	PROPOSED STORM DRAIN LINE
---	LIMITS OF DISTURBANCE
SF-TP	SILT/TREE PROTECTION FENCE



UTILITY PLAN

SCALE: 1" = 20' (DRAWING SCALED FOR 24x36 INCH PLOTS)



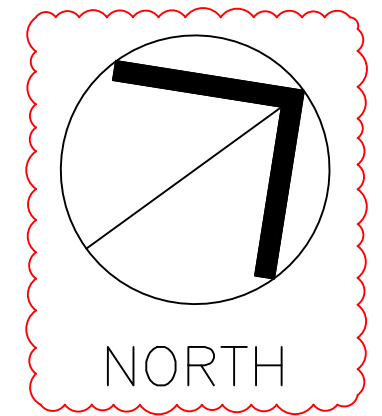


Sym	Qty	Label	Arrangement	Mounting HT	Description	Tag	LLF
4	4	LDWP-FC-4B-ED-704	1	Single	8'	LDWP-FC-4B-ED-7040	32W WALL LIGHT 1,000
8	8	LDWP-FC-6B-ED-7040	1	Single	8'	LDWP-FC-6B-ED-7040	47W WALL LIGHT 1,000
1	1	GLEON-SASC-740-U-SWQ	1	Single	30'	GLEON-SASC-740-U-SWQ	SINGLE STREET LIGHT 1,000
1	1	GLEON-SASC-740-U-SWQ	1	Back-Back	30'	GLEON-SASC-740-U-SWQ	DOUBLE STREET LIGHT 1,000

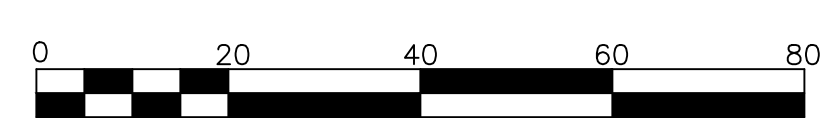
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Max/Avg
Calcpts 1	Illuminance	Fc	1.40	26.2	0.0	N.A.	N.A.	N.A.

- ### LIGHTING NOTES
- LIGHT POLES ARE TO BE LOCATED 20' (MIN) AWAY FROM CANOPY TREES.
 - LIGHT LEVELS AT RESIDENTIAL PROPERTY LINES SHALL NOT EXCEED 0.5 FC
 - LIGHT LEVELS AT PUBLIC RIGHT OF WAYS SHALL NOT EXCEED 2.0 FC
 - ANY WALL PACKS INSTALLED ON THE BUILDING MUST BE FULL CUT OFF FIXTURES.
 - FIXTURE SYMBOLS ARE ILLUSTRATIVE AND HAVE BEEN INCREASED IN SIZE.
 - DUKE ENERGY PROGRESS SERVICE IS AVAILABLE FOR THIS SITE. FINAL PHOTOMETRICS TO BE PER DUKE ENERGY LAYOUT.

- ### GENERAL NOTES
- ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RALEIGH AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
 - CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (1-800-632-4949) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
 - BOUNDARY AND SURVEY INFORMATION IS TAKEN FROM A DIGITAL SURVEY BY STEWART-PROCTOR ENGINEERING & SURVEYING DATED JUNE 5, 2025. ADDITIONAL SITE INFORMATION TAKEN FROM WAKE COUNTY GIS.
 - ALL CONSTRUCTION SHALL CONFORM TO A.D.A STANDARDS.



LIGHTING PLAN
SCALE: 1" = 20' (DRAWING SCALED FOR 24x36 INCH PLOTS)



Product Family	Configuration	Order	Temperature	Voltage	Distribution	Mounting	Finish
LED-FC-4B	SA-1 Square	A-4000K	277-300V, 2000K	120V	FC-1 Square	SA-1 Pole Mount	SA-1000
LED-FC-6B	SA-2 Square	A-4000K	277-300V, 2000K	120V	FC-2 Square	SA-2 Pole Mount	SA-1000
LED-FC-6B	SA-3 Square	A-4000K	277-300V, 2000K	120V	FC-3 Square	SA-3 Pole Mount	SA-1000
LED-FC-6B	SA-4 Square	A-4000K	277-300V, 2000K	120V	FC-4 Square	SA-4 Pole Mount	SA-1000
LED-FC-6B	SA-5 Square	A-4000K	277-300V, 2000K	120V	FC-5 Square	SA-5 Pole Mount	SA-1000
LED-FC-6B	SA-6 Square	A-4000K	277-300V, 2000K	120V	FC-6 Square	SA-6 Pole Mount	SA-1000
LED-FC-6B	SA-7 Square	A-4000K	277-300V, 2000K	120V	FC-7 Square	SA-7 Pole Mount	SA-1000
LED-FC-6B	SA-8 Square	A-4000K	277-300V, 2000K	120V	FC-8 Square	SA-8 Pole Mount	SA-1000
LED-FC-6B	SA-9 Square	A-4000K	277-300V, 2000K	120V	FC-9 Square	SA-9 Pole Mount	SA-1000
LED-FC-6B	SA-10 Square	A-4000K	277-300V, 2000K	120V	FC-10 Square	SA-10 Pole Mount	SA-1000

McGraw-Edison

Ordering Information
SAMPLE NUMBER: GLEON-SA4C-740-U-14FT-0M

Product Family: LED-FC-6B
Configuration: SA-3 Square
Order: A-4000K
Temperature: 277-300V, 2000K
Voltage: 120V
Distribution: FC-3 Square
Mounting: SA-3 Pole Mount
Finish: SA-1000

GLEON Galleon

Optical Distributions

McGraw-Edison

WP WAL-PAK

27, 32 and 46W
LED
250 - 400W
Pulse Start Metal Halide
250 - 400W
High Pressure Sodium

WALL MOUNT LUMINAIRE

DIMENSIONS

BOROSILICATE GLASS DOOR (GL) FULL CUTOFF DOOR (FC)

POWER AND LUMENS

Catalog Number	Lumens	Power Consumption (Watts)	BLU.G. Rating	Correlated Color Temperature (K)	Color Rendering Index (CRI)
LDWPFC-38-ED-7040	1,884	27W	81-U0-G1	4000K	72
LDWPFC-48-ED7040	2,239	32W	81-U0-G1	4000K	73
LDWPFC-68-ED-7040	3,137	47W	81-U0-G1	4000K	73

Product Family: WP-Wal-Pak
Configuration: SA-1 Square
Order: A-4000K
Temperature: 277-300V, 2000K
Voltage: 120V
Distribution: FC-1 Square
Mounting: SA-1 Pole Mount
Finish: SA-1000

WP WAL-PAK

27, 32 and 46W
LED
250 - 400W
Pulse Start Metal Halide
250 - 400W
High Pressure Sodium

WALL MOUNT LUMINAIRE

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Product Family: WP-Wal-Pak
Configuration: SA-1 Square
Order: A-4000K
Temperature: 277-300V, 2000K
Voltage: 120V
Distribution: FC-1 Square
Mounting: SA-1 Pole Mount
Finish: SA-1000

WP WAL-PAK

27, 32 and 46W
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250 - 400W
Pulse Start Metal Halide
250 - 400W
High Pressure Sodium

WALL MOUNT LUMINAIRE

DIMENSIONS

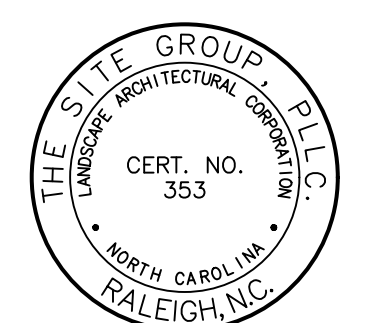
BOROSILICATE GLASS DOOR (GL) FULL CUTOFF DOOR (FC)

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Mounting: SA-1 Pole Mount
Finish: SA-1000

N/F WALLBROOK PLX, LLC
D.B. 19463 PAGE 2024
B.M. 2025 PAGE 528
758.01-45-6679
EX. USE: SUPERMARKET



NO ENGINEERING LICENSE NO. P-0803



THE SITE GROUP
CIVIL ENGINEERS • LANDSCAPE ARCHITECTS
THE SITE GROUP, P.L.L.C.
1111 S. MAIN ST., SUITE 200
RALEIGH, NC 27605-1136 USA
Office: 919.835.4787
Fax: 919.839.2255
E-Mail: SRN@thesitegroup.net

SITE DEVELOPMENT PLAN (SDP-26-0001) FOR:
KIDDIE ACADEMY
LOT 4 AT WALLBROOK
851 S. MAIN ST.
ROLESVILLE, NORTH CAROLINA

Drawn By: LLF
Checked By: SRN

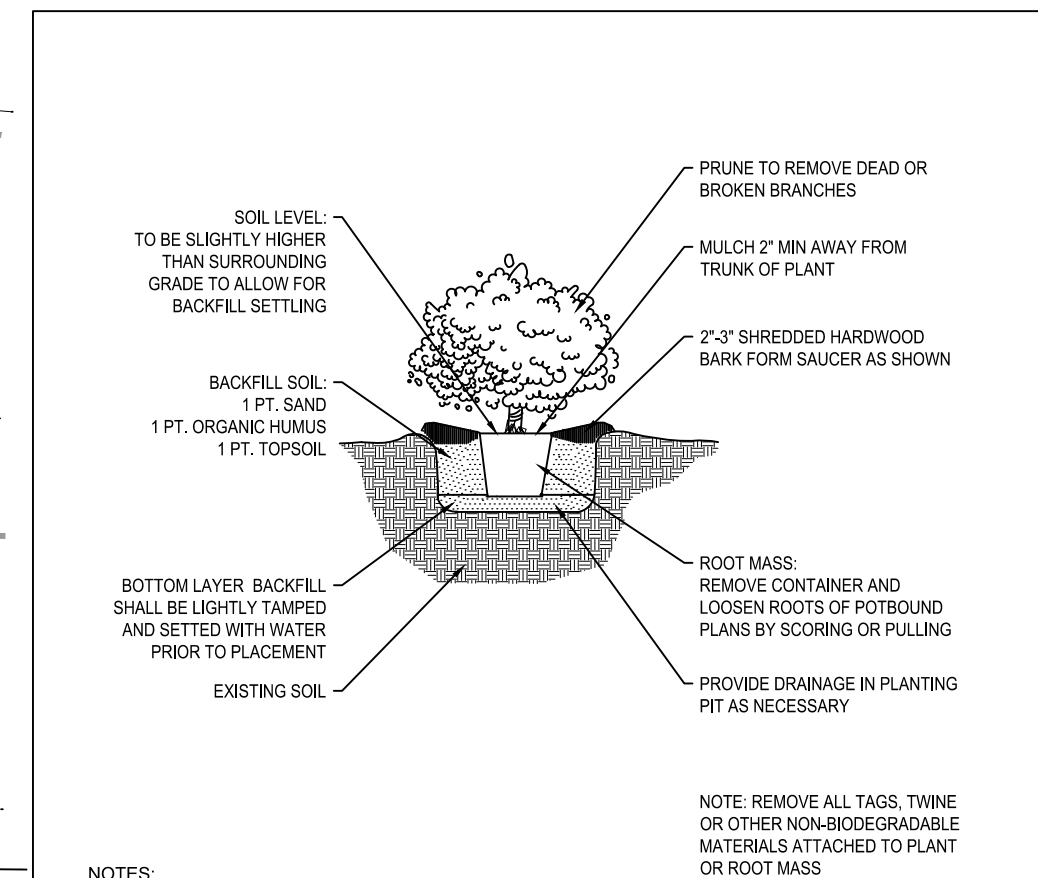
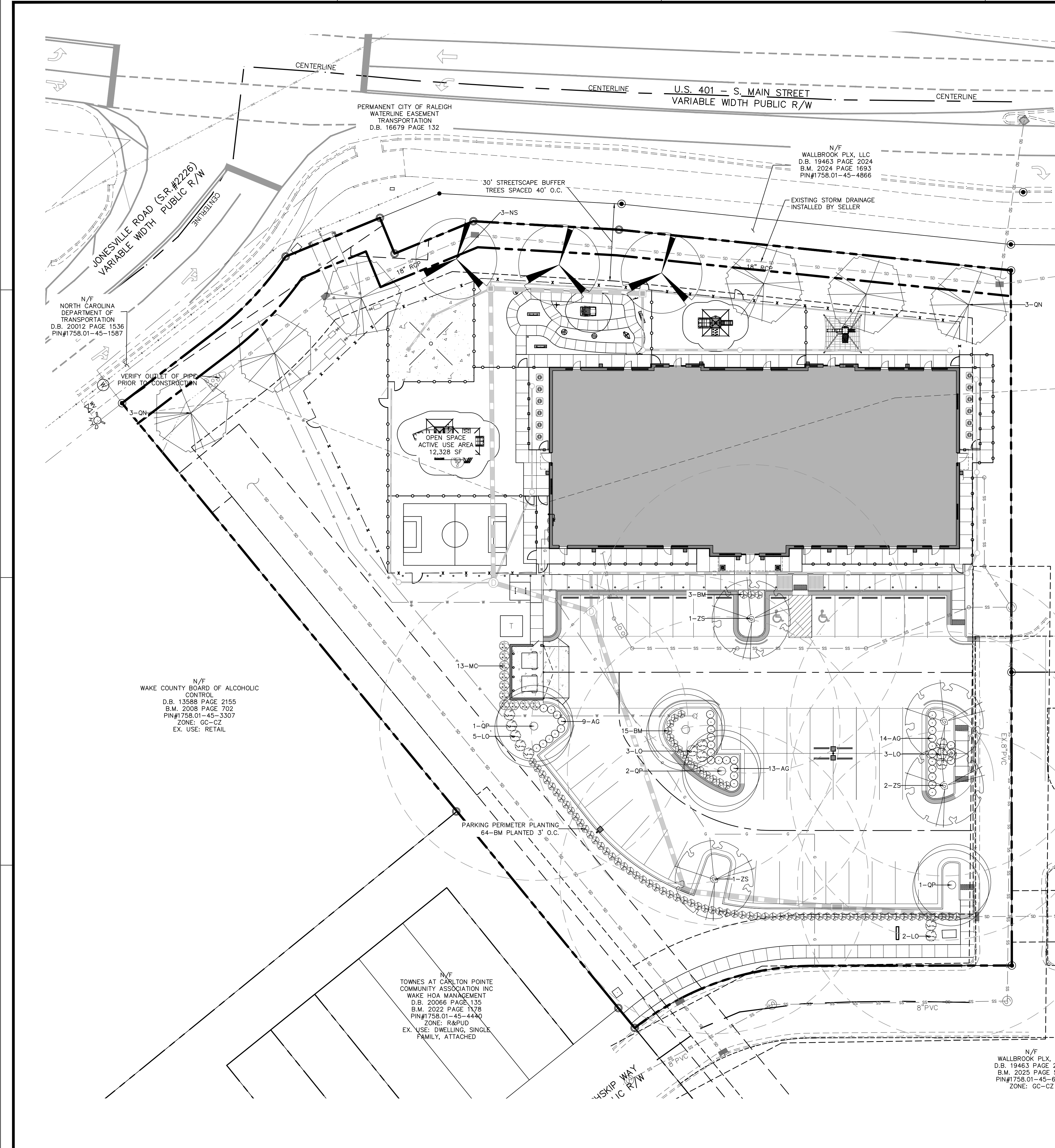
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REVISED: 27 MAR 2026

SITE DEVELOPMENT PLAN

LIGHTING PLAN

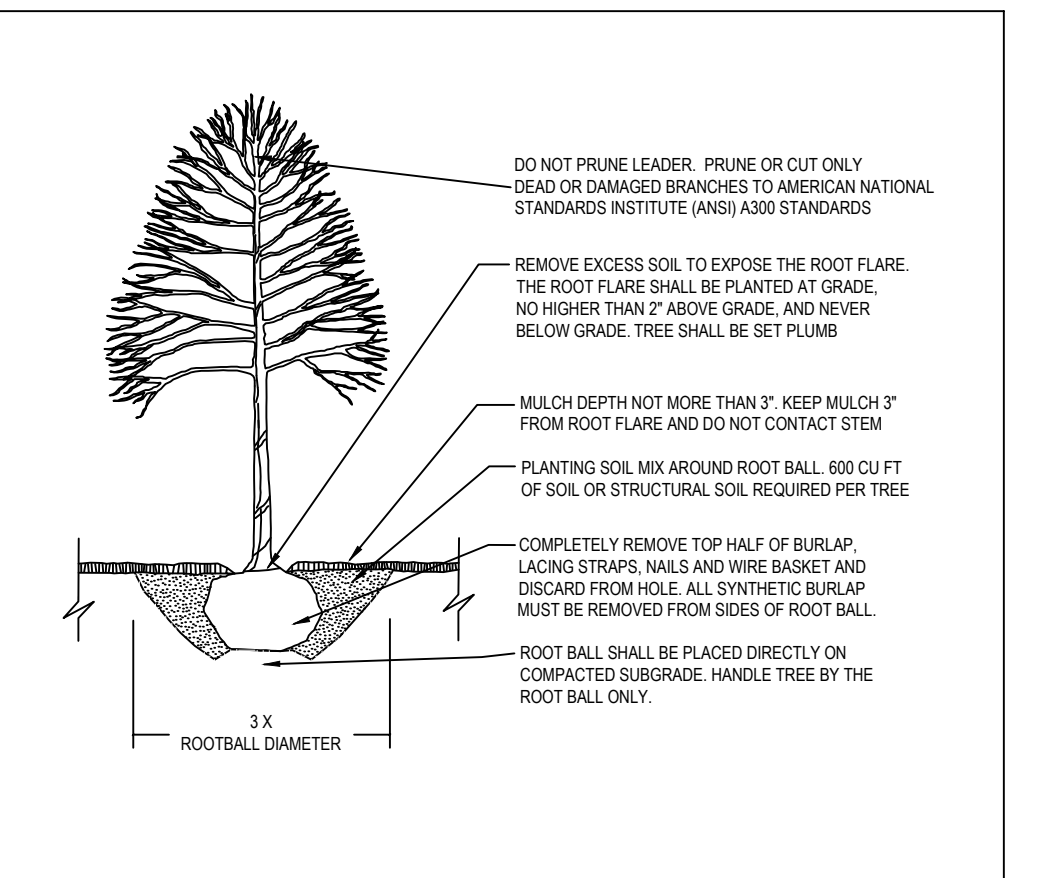
Job Code: SSRCC

Dwg No. SITE 401



NOTES:

1. TO PROMOTE AERATION AND PERCOLATION IN HEAVY SOIL, PLANT ROOTBALL ABOVE EXISTING GRADE AS SHOWN.
2. PROVIDE AN EARTH SAUCER FOR WATER RETENTION.
3. BACKFILL WITH 90% PARENT MATERIAL AND 20% DECOMPOSED ORGANIC MATERIAL BY VOLUME WELL MIXED AS APPROVED BY THE ARCHITECT.
4. PROVIDE 6" MINIMUM OF BACKFILL ON EACH SIDE OF ROOTBALL TO PROMOTE RAPID REESTABLISHMENT.
5. PROVIDE MINIMUM 4" THICK PINE STRAW IN 6" WIDE PLANTING BED OR AS DIRECTED ON PLANS.
6. SHRUBS WILL HAVE A MINIMUM 1 YEAR WARRANTY FROM DATE OF INSTALLATION.



NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ADEQUATE DRAINAGE OF ALL PLANTING PITS. (POSITIVE DRAINAGE AWAY FROM PIT)
2. TREES SHALL BE PLANTED BETWEEN OCTOBER 1ST AND APRIL 30TH.
3. ELECTRICAL OUTLETS AND OTHER UTILITIES ARE PROHIBITED IN THE PLANTING AREA IMMEDIATELY SURROUNDING THE TREE.
4. TREES WILL HAVE A MINIMUM 1 YEAR WARRANTY AFTER THE INITIAL PLANTING IS APPROVED.

PLANT SCHEDULE

KEY	QTY	BOTANICAL NAME	COMMON NAME	HEIGHT	SIZE	ROOT	SPACING	NATIVE STATUS	MATURE HT./SPRD
CANOPY TREES									
QL	3	NYSSA SYLVATICA 'WILDFIRE'	BLACK GUM	12' HT. MIN.	3" CAL.	B&B	40' MAX	NATIVE	50'/40'
QN	6	QUERCUS NUTTALLII	NUTTALL OAK	12' HT. MIN.	3" CAL.	B&B	40' MAX	NATIVE	60'/40'
QP	4	QUERCUS PHELLOS	WILLOW OAK	12' HT. MIN.	3" CAL.	B&B	AS SHOWN	NATIVE	60'/40'
ZS	4	ZELKOVA SERRATA 'VILLAGE GREEN'	JAPANESE ZELKOVA	12' HT. MIN.	3" CAL.	B&B	AS SHOWN	NON-NATIVE	50'/40'
SHRUBS									
AG	36	ABELIA GRANDIFLORA 'ROSE CREEK'	ROSE CREEK ABELIA	24" HT. MIN.		CONT.	AS SHOWN	NON-NATIVE	3'/4'
BM	82	BUXUS MICROPHYLLA VAR. JAPONICA 'WINTER GEM'	WINTERGEM BOXWOOD	24" HT. MIN.		CONT.	3" O.C.	NON-NATIVE	5'/5'
IYS	17	ILEX VOMITORIA 'SCHILLINGS'	DWARF YAUPON HOLLY	24" HT. MIN.		CONT.	4" O.C.	NATIVE	3'/4'
LO	13	LOROPETALUM CHINENSIS 'RUBY'	CHINESE FRINGE FLOWER	24" HT. MIN.		CONT.	AS SHOWN	NON-NATIVE	5'/5'
MC	10	MYRICA CERIFERA	SOUTHERN WAX MYRTLE	36" HT. MIN.		CONT.	AS SHOWN	NATIVE	15'/10'

PLANTING NOTES:
 LOCATE PLANTS AND PLANTING BEDS BY USING SCALED DIMENSIONS FROM STREET, PROPERTY LINES, BACK OF CURB, BUILDINGS, WALLS, ETC. ALL PLANTS SHALL MEET OR EXCEED THE MINIMUM STANDARDS SET BY THE U.S.D.A. FOR NURSERY STOCK SPONSORED BY THE AMERICAN ASSOCIATION OF NURSERMEN, INC., WASHINGTON, D.C. NO SUBSTITUTIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL FROM THE OWNER AND/OR THE LANDSCAPE ARCHITECT.

SYMBOLS: B&B = BALLED & BURLAPPED; B.R. = BARE ROOT; CONT. = CONTAINER; O.C. = ON-CENTER; (R) = TO REMAIN

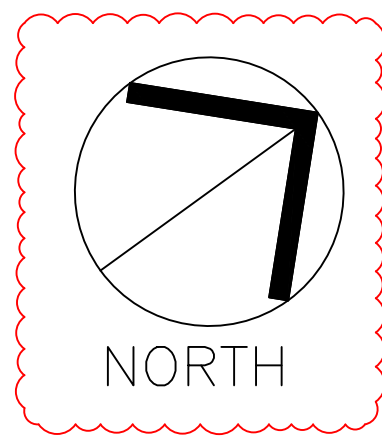
MULCH: MULCH ALL BED AREAS WITH SHREDDED PINE MULCH TO A DEPTH OF 3".

NOTE:

1. NO PORTION OF ANY PARKING SPACE SHALL BE LOCATED MORE THAN SIXTY (60) FEET FROM AN ON-SITE LARGE (CANOPY) TREE. FOR PURPOSES OF THIS SECTION, THE MEASUREMENT SHALL BE FROM THE CLOSEST EDGE OF THE SUBJECT AREA TO THE CENTER OF THE BASE OF THE CLOSEST QUALIFYING TREE IN ACCORDANCE WITH SEC 6.2.4.4 OF THE LDO.
2. ALL SHRUB SPECIES SHALL REACH A MINIMUM OF 36" WITHIN THREE YEARS OF INSTALLATION.
3. MINIMUM PLANT SIZES SHALL BE IN ACCORDANCE WITH THE SECTION 6.2.4.3 OF THE LDO AS FOLLOWS:
 PLANTING MATERIAL TYPE MINIMUM PLANTING SIZE
 DECIDUOUS CANOPY TREE (≥ 35' HT, ≥ 30' SPREAD) 3" CAL/PER, 12' HT
 EVERGREEN SHRUB 24" HT
4. DUMPSTER SHALL BE ENCLOSED ON 3 SIDES IN ACCORDANCE WITH SECTION 6.2.4.6.
5. NO TREES OR SHRUBS SHALL BE PLANTED WITHIN SANITARY SEWER, WATERLINE, OR ELECTRIC EASEMENTS WITHOUT THE TOWN AND EASEMENT HOLDER APPROVAL.
6. LANDSCAPING SHALL BE COMPLIANT WITH SECTION 6.2.4.
7. MINIMUM 3 FEET CLEARANCE MUST BE MAINTAINED AROUND ALL FIRE HYDRANTS IN ACCORDANCE WITH STATE BUILDING CODE.

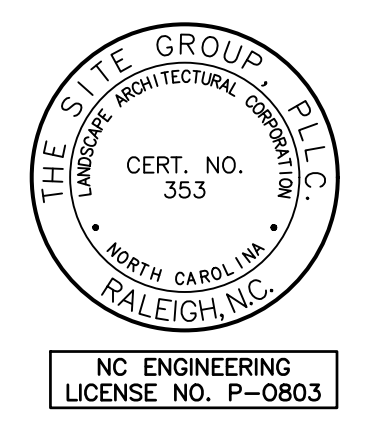
LANDSCAPE REQUIREMENTS:

1. THE SITE SHALL BE STABILIZED AND SEEDING PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
2. ALL MECHANICAL EQUIPMENT, WASTE DISPOSAL FACILITIES, AND VEHICULAR USE AREAS (DRIVES AND PARKING) SHALL BE SCREENED FROM PUBLIC VIEW.
3. ALL ABOVE GROUND UTILITY EQUIPMENT AND FACILITIES ASSOCIATED WITH ON-SITE ELECTRIC, CABLE, TELEPHONE, GAS OR OTHER SIMILAR UTILITY SHALL BE LOCATED IN THE SIDE OF REAR YARD AREA OF THE SITE AND SCREENED, TO THE EXTENT POSSIBLE, WITH EVERGREEN PLANTINGS. PLANTINGS SHALL ALLOW FOR A MINIMUM OF 5' CLEARANCE AROUND THE STRUCTURE TO ALLOW FOR ACCESS. ADDITIONALLY, ANY SIDE OF THE STRUCTURE HAVING A DOOR OR LOOK, THE PLANTINGS SHALL ALLOW FOR A 10' CLEARANCE. THE AMOUNT OF CLEARANCE SHALL ACCOUNT FOR THE SIZE OF THE PLANT MATERIAL AT MATURITY.
4. THE SIZE OF THE PLANTING AREA AND SIZE OF PLANT MATERIAL AT MATURITY SHALL ALLOW FOR A 2.5' BUMPER OVERHANG FROM THE BACK OF CURB.
5. NO TREE SHALL BE LOCATED WITHIN A ROADWAY RIGHT OF WAY OR WITHIN 5' OF A SIDEWALK AND WITHIN 20' OF A LIGHTING LOCATION.
6. ALL SHRUBS INSTALLED AS VEHICULAR USE SCREENING WILL BE MAINTAINED AS A CONTINUOUS HEDGE AT A MINIMUM HEIGHT OF 36 INCHES.
7. WHERE EXISTING OR PROPOSED VEGETATION FAILS TO FUNCTION ADEQUATELY AS REQUIRED, THE CITY OF RALEIGH SITE INSPECTOR RESERVES THE RIGHT TO REQUIRE SUPPLEMENTAL PLANTINGS IN ADDITION TO THOSE SHOWN ON THE LANDSCAPE PLAN BASED ON ACTUAL FIELD CONDITIONS.
8. UPON ESTABLISHMENT OF FINISHED GRADES AND PRIOR TO BEGINNING INSTALLATION OF ANY TREES, A SOIL AMENDMENT SCHEDULE FOR ALL TREE PLANTINGS SHALL BE PREPARED BY A CERTIFIED LANDSCAPE ARCHITECT.
9. THE PROPERTY OWNER OR DEVELOPER SHALL PROVIDE FOR CONTINUOUS MAINTENANCE OF THE LANDSCAPE AREAS AFTER OCCUPANCY OF THE BUILDING. THE PROPERTY OWNER SHALL ENSURE THAT PERFORMANCE CRITERIA WITHIN THIS ORDINANCE AND/OR INCLUDED ON THE APPROVED SITE AND/OR SUBDIVISION PLAN ARE MET. FAILURE TO CORRECT DEFICIENCIES IN



LANDSCAPE PLAN

SCALE: 1" = 20' (DRAWING SCALED FOR 24x36 INCH PLOTS)



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SITE DEVELOPMENT PLAN (SDP-26-0001) FOR:
KIDDIE ACADEMY
LOT 4 AT WALLBROOK
 851 S. MAIN ST.
 ROLESVILLE, NORTH CAROLINA

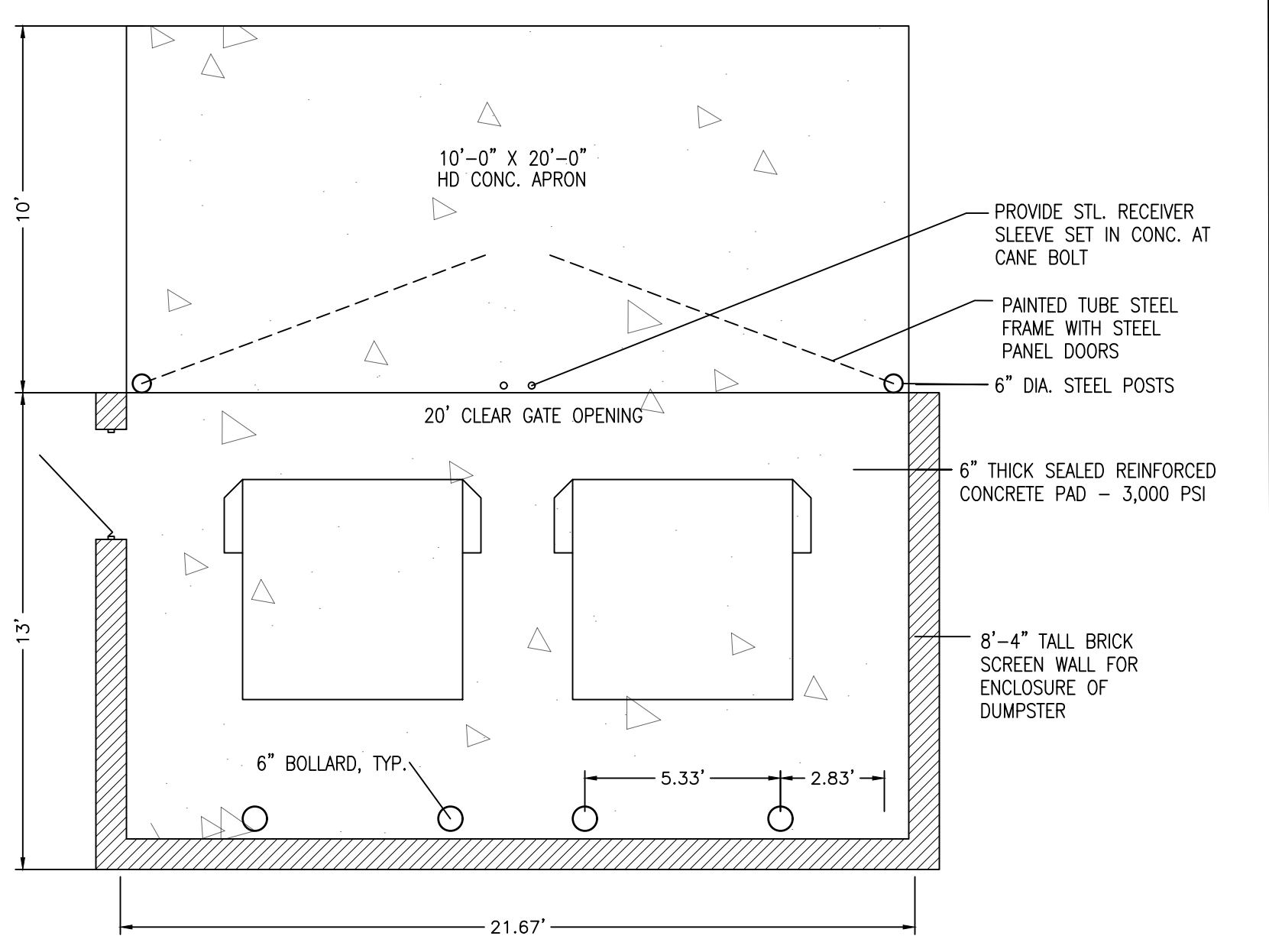
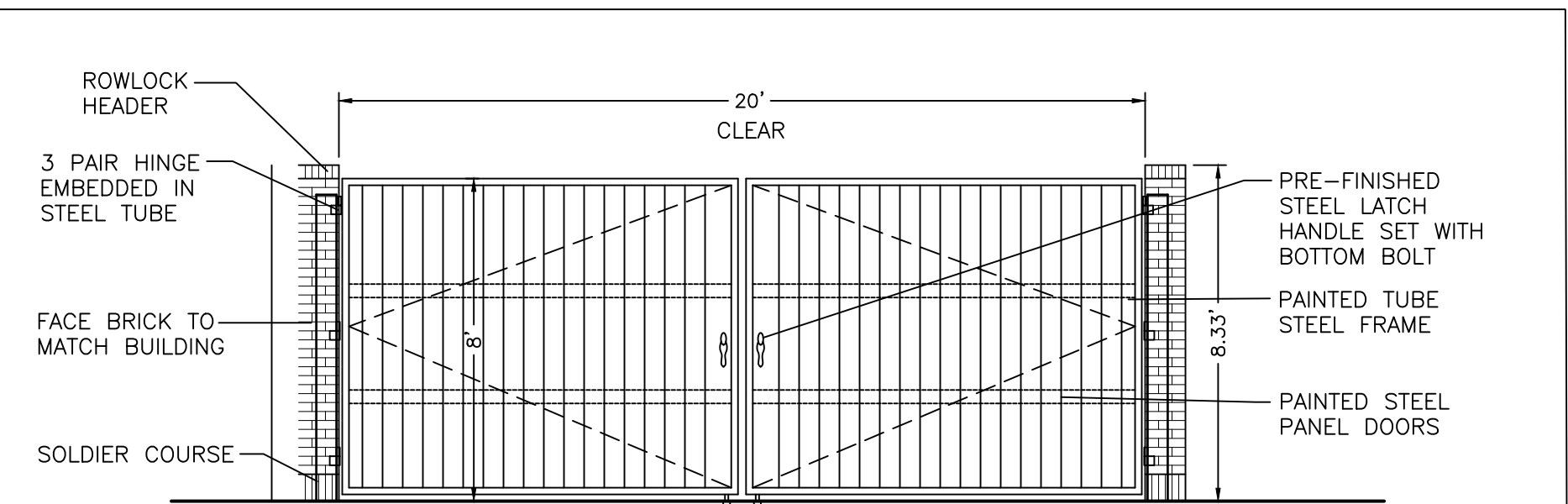
Drawn By: LLF
 Checked By: BDM

DATE: 30 JAN 2026
 REVISED: 27 MAR 2026

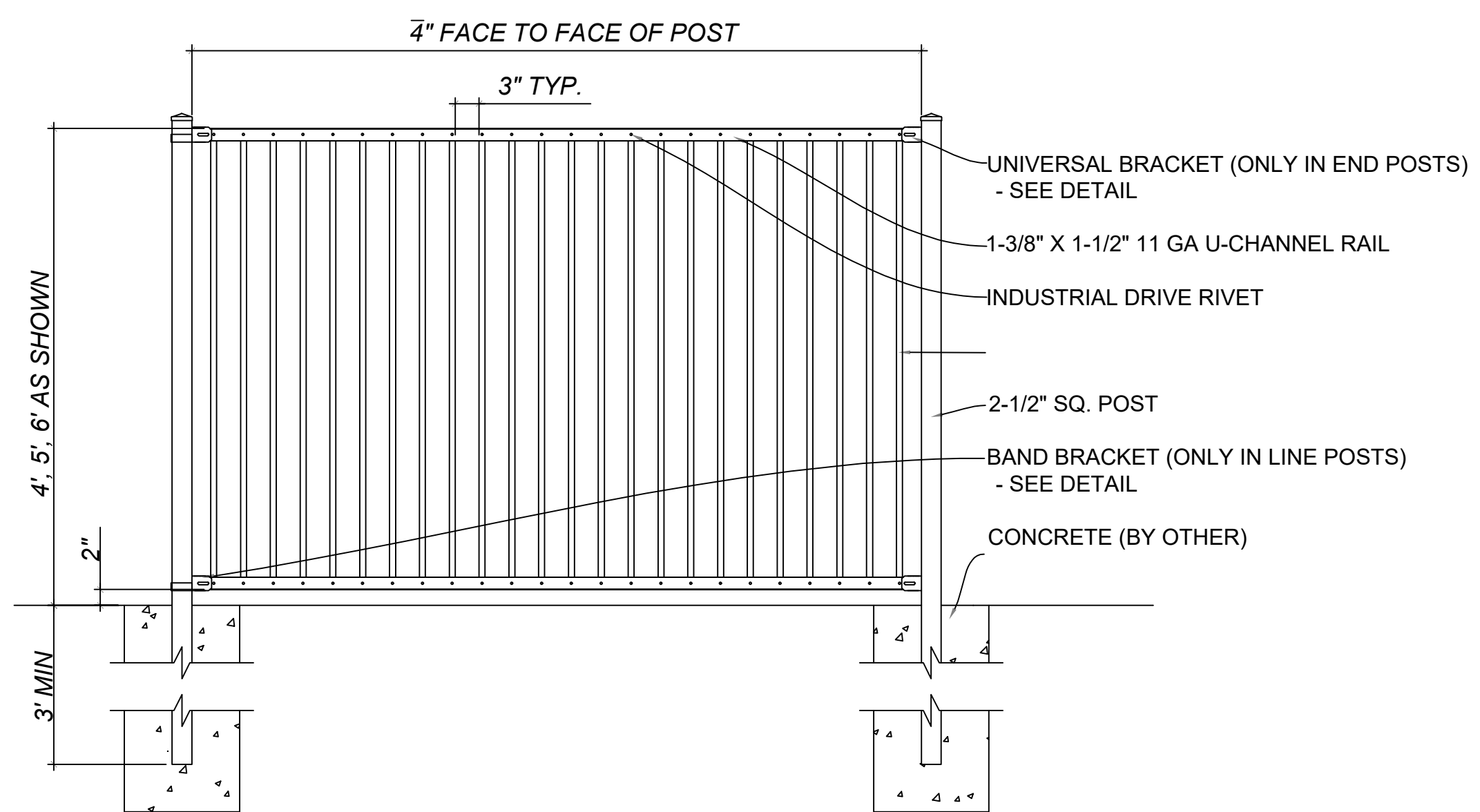
SITE DEVELOPMENT PLAN
 LANDSCAPE PLAN

Job Code: SSRCC
 Dwg No. **SITE 500**

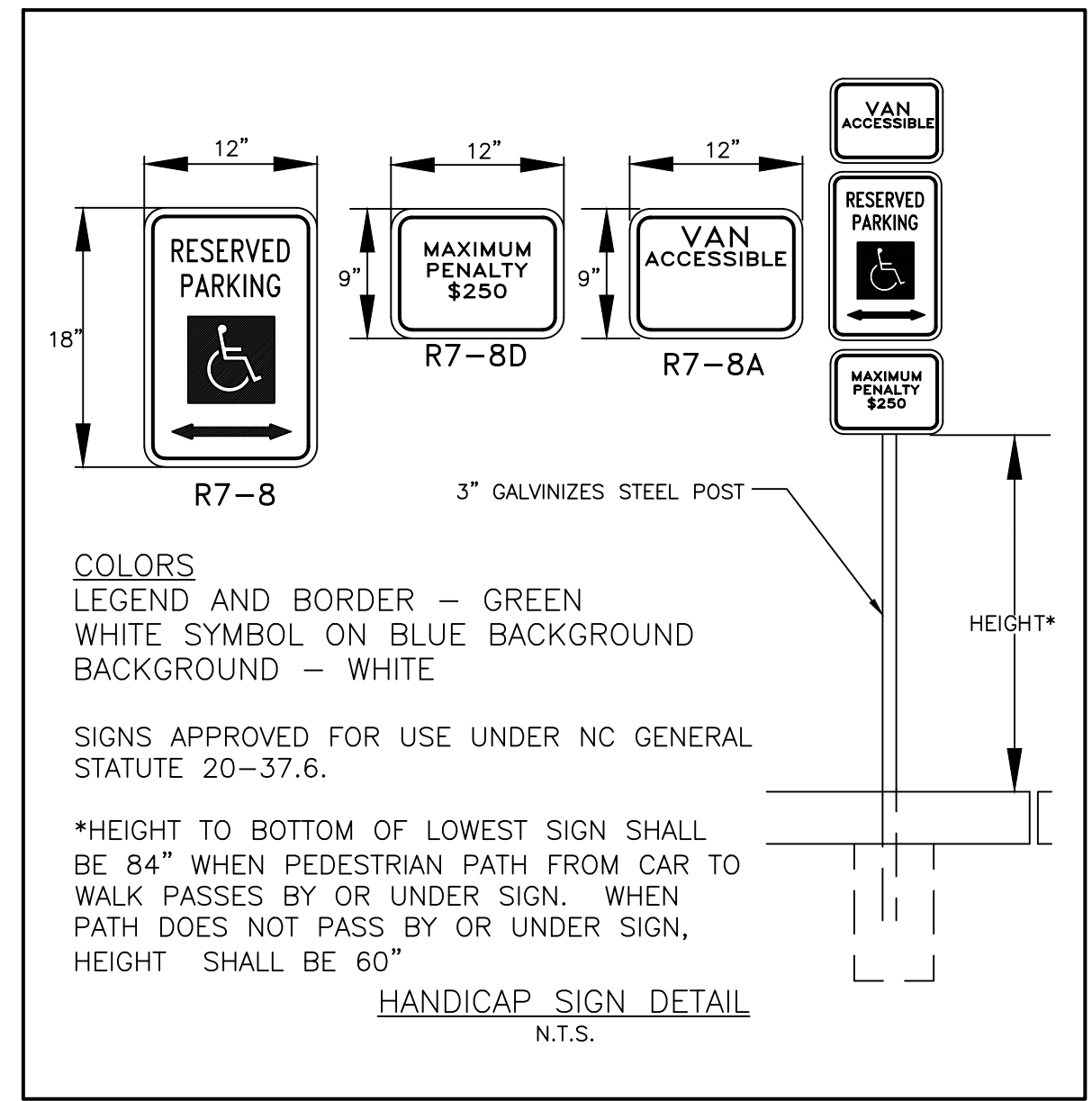
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TRASH ENCLOSURE DETAIL
SCALE: 1/4"=1'-0"



NOTES:
 1. SPECIFICATIONS SHOWN CAN BE CHANGED BY THE MANUFACTURER ONLY.
 2. ALL COMPONENTS OF THE PANEL TO BE COATED BLACK.
 3. VERIFY POST DEPTH AND FOOTING DIMENSIONS WITH LOCAL CODES AND SITE CONDITIONS.

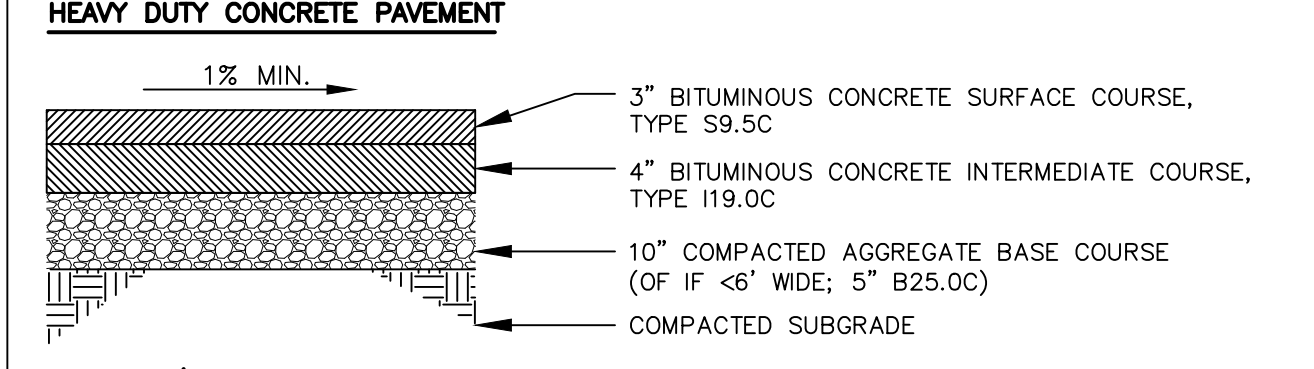
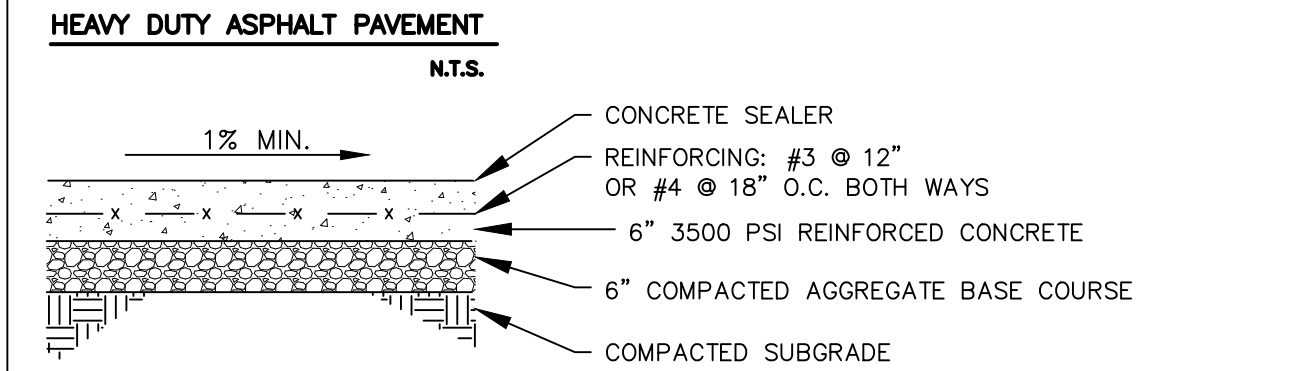
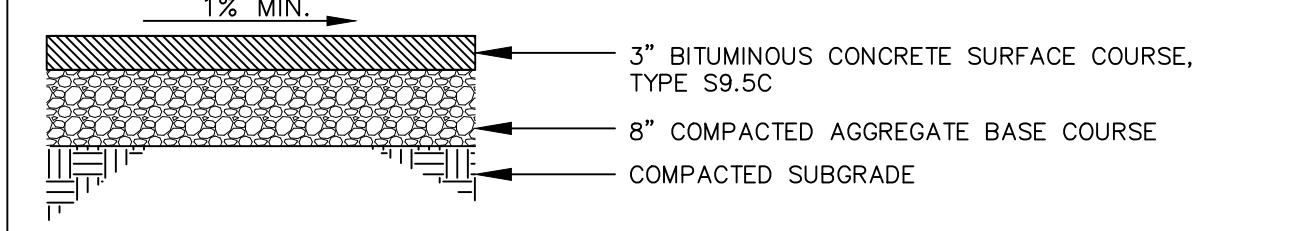
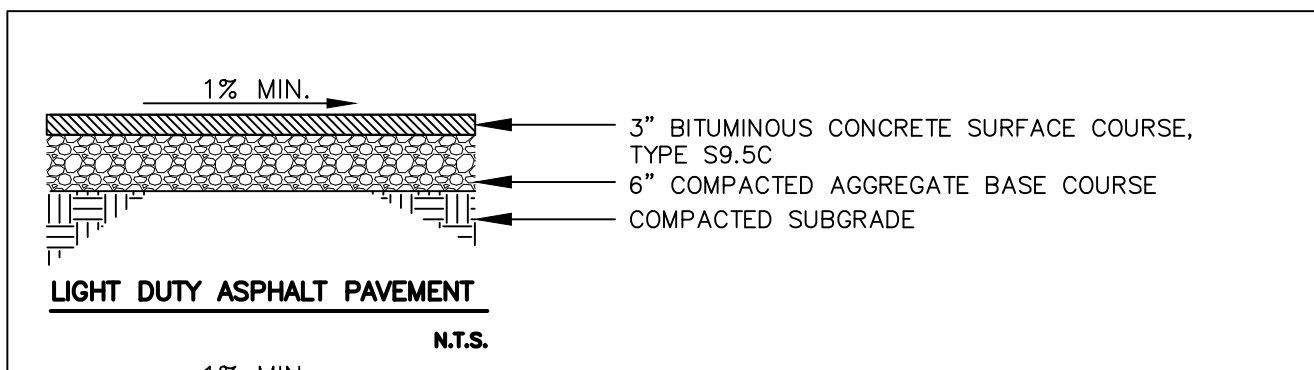


COLORS
 LEGEND AND BORDER - GREEN
 WHITE SYMBOL ON BLUE BACKGROUND
 BACKGROUND - WHITE

SIGNS APPROVED FOR USE UNDER NC GENERAL STATUTE 20-37.6.

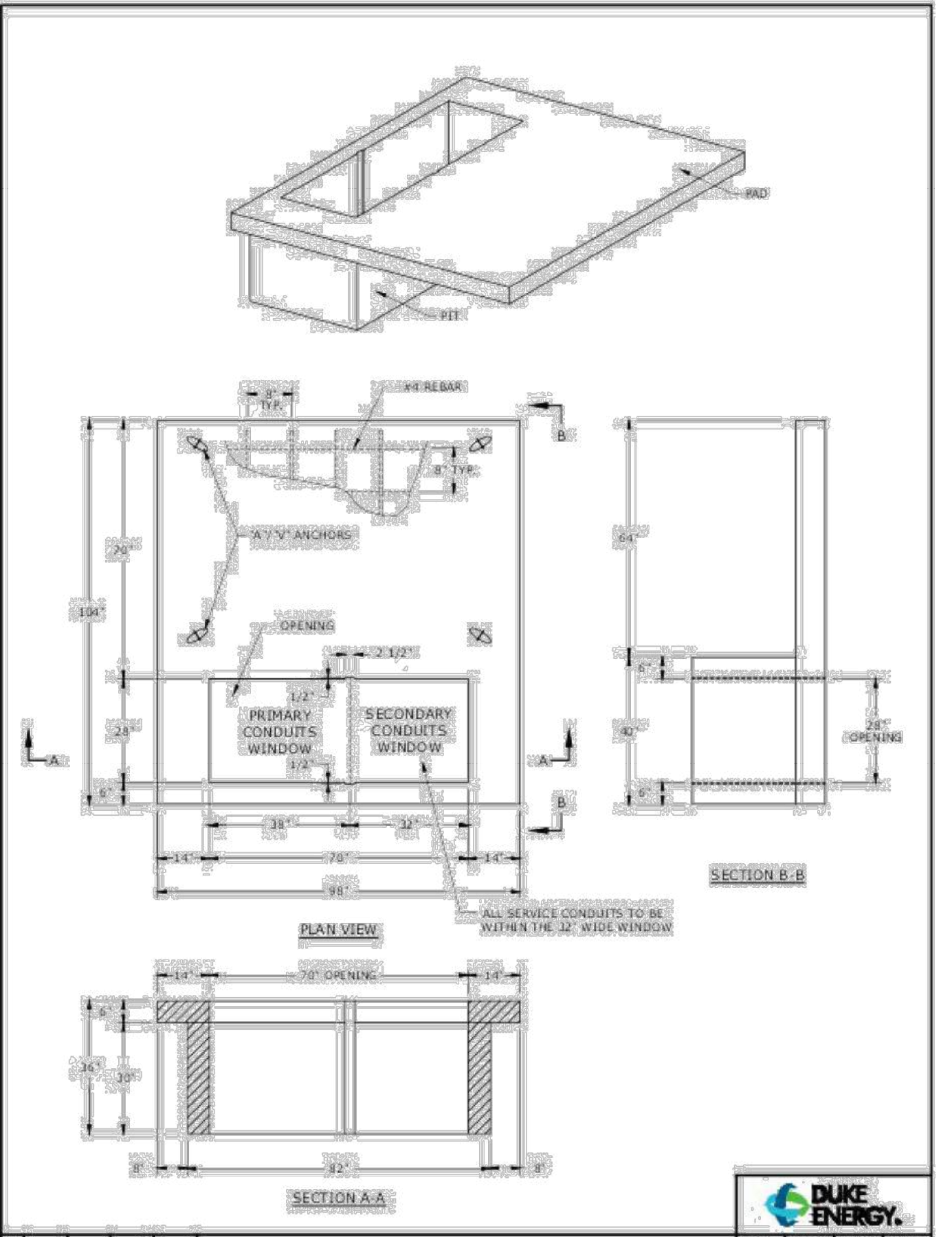
*HEIGHT TO BOTTOM OF LOWEST SIGN SHALL BE 84" WHEN PEDESTRIAN PATH FROM CAR TO WALK PASSES BY OR UNDER SIGN. WHEN PATH DOES NOT PASS BY OR UNDER SIGN, HEIGHT SHALL BE 60"

HANDICAP SIGN DETAIL
N.T.S.



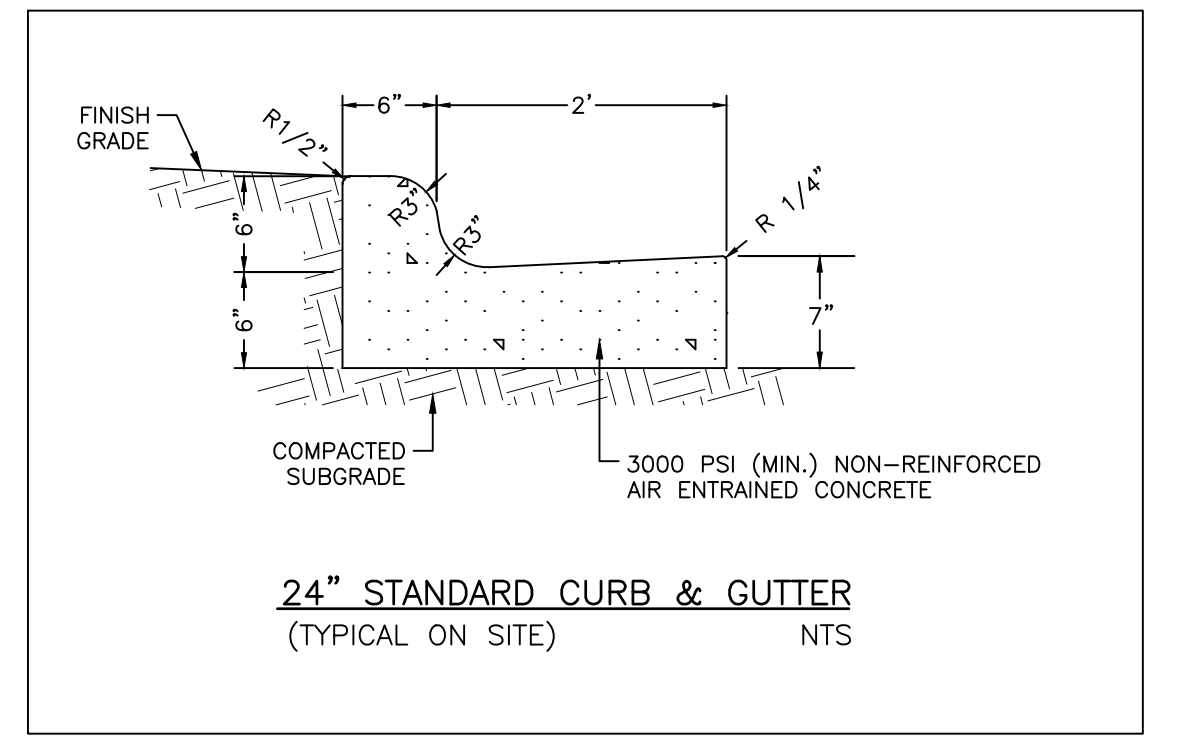
TYPICAL PAVING SECTIONS
N.T.S.

NOTE: FINAL PAVING SECTIONS TO BE REVIEWED AND APPROVED BY GEOTECHNICAL ENGINEER OF RECORD PRIOR TO CONSTRUCTION.

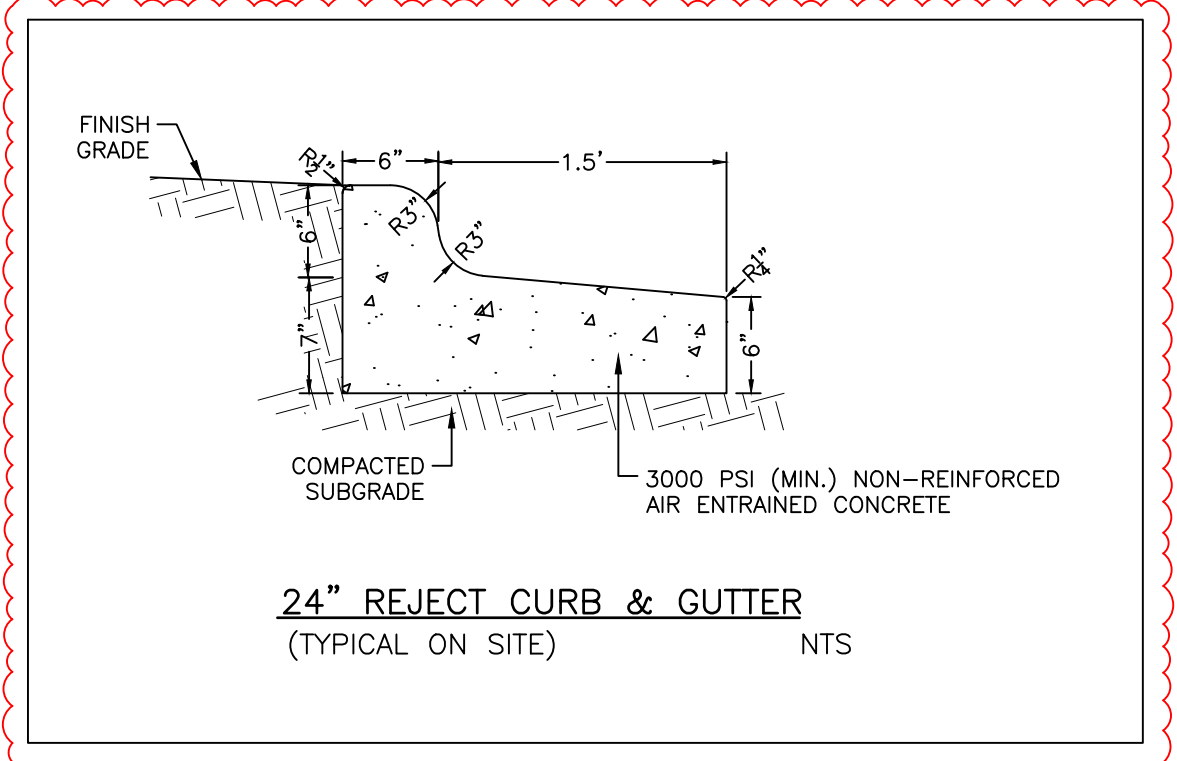


LARGE PIT PAD SPECIFICATIONS

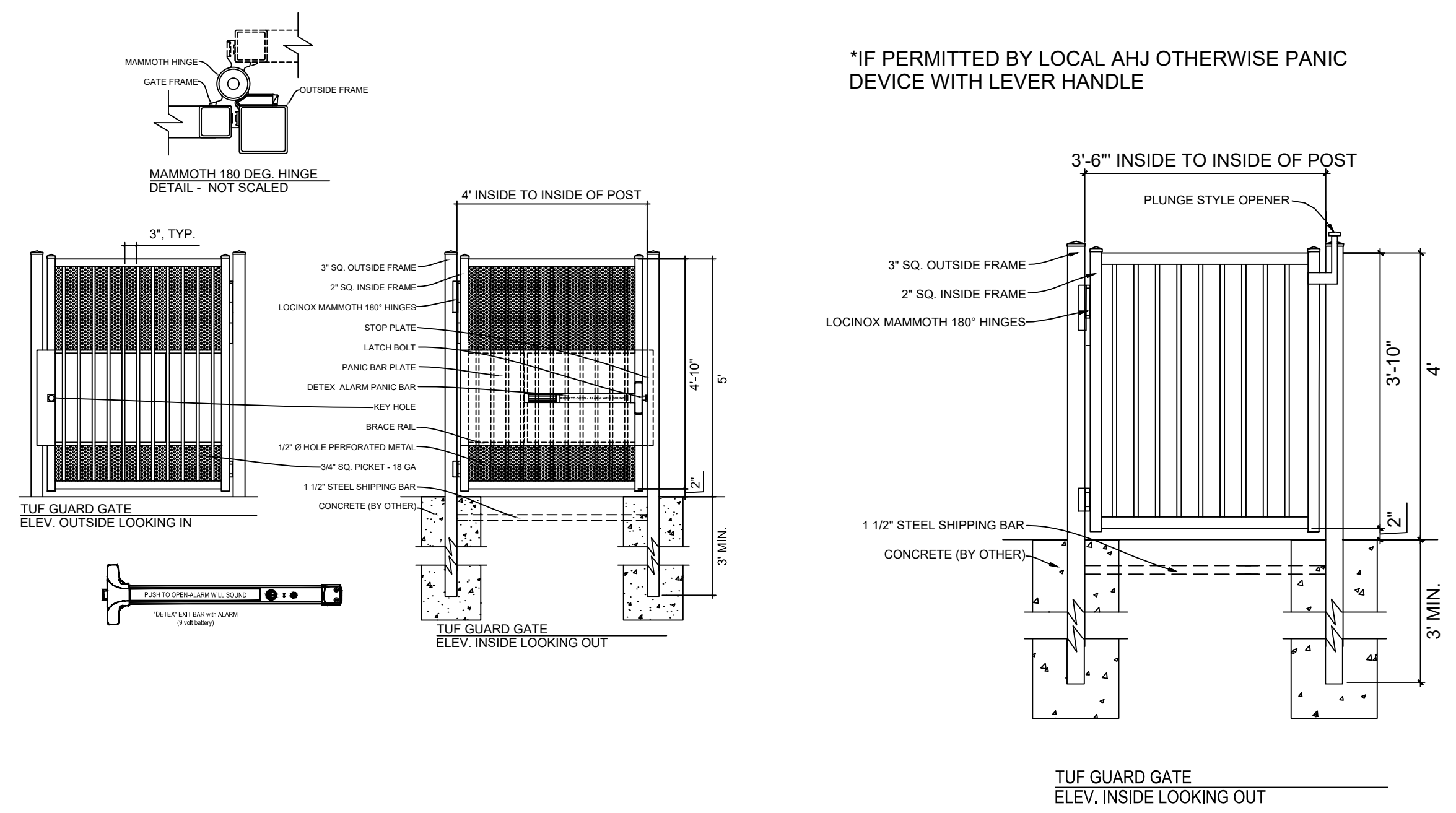
1	DESIGN	DEM	DEP	DEF
2				
3				
4				
REVISED BY	CHKD	APPR		



24" STANDARD CURB & GUTTER
(TYPICAL ON SITE) NTS

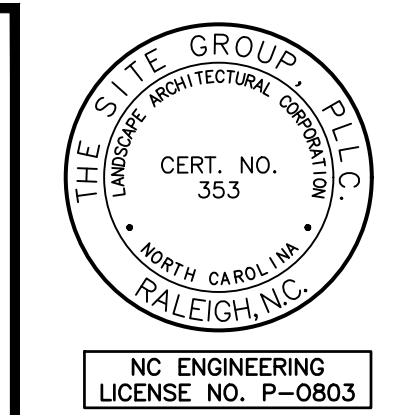


24" REJECT CURB & GUTTER
(TYPICAL ON SITE) NTS



*IF PERMITTED BY LOCAL AHJ OTHERWISE PANIC DEVICE WITH LEVER HANDLE

TUF GUARD GATE
ELEV. INSIDE LOOKING OUT



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SITE DEVELOPMENT PLAN (SDP-26-0001) FOR:
KIDDIE ACADEMY
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 851 S. MAIN ST.
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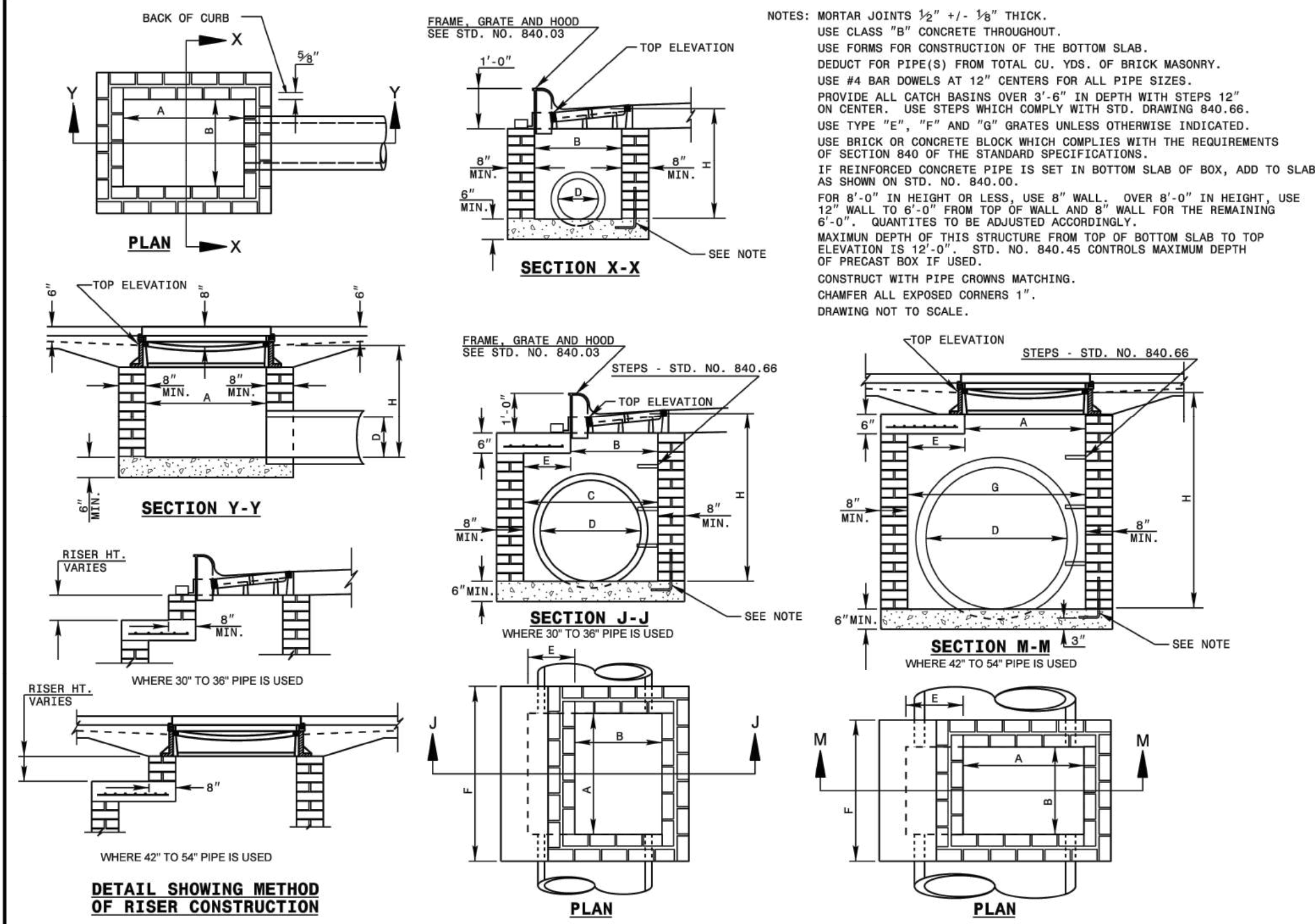
Drawn By: **LLF**
 Checked By: **SRN**

DATE: 30 JAN 2026
 REVISED: 27 MAR 2026

SITE DEVELOPMENT PLAN
SITE DETAILS

Job Code: **SSRC**
 Dwg No.: **SITE 600**

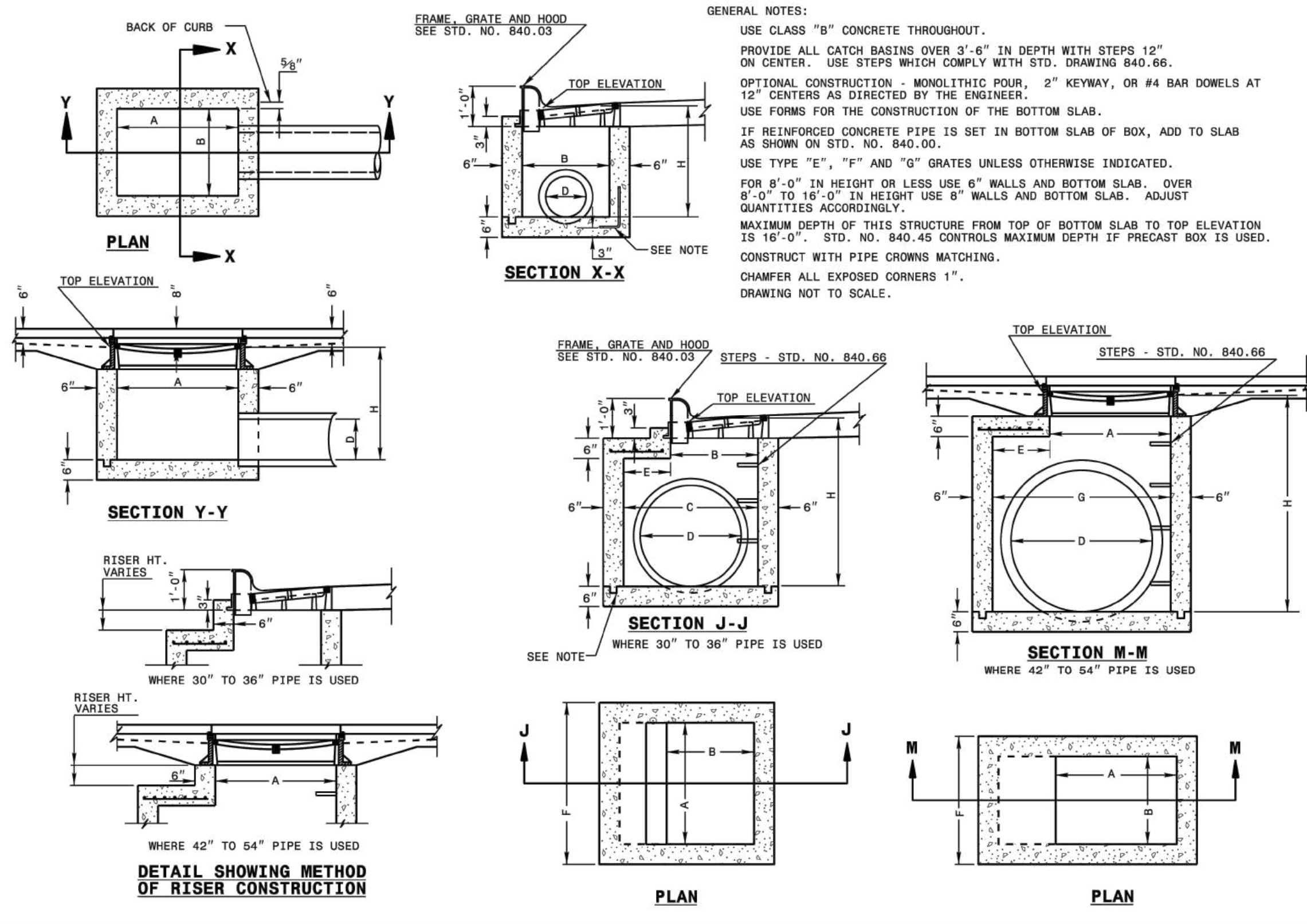
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1-231 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

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

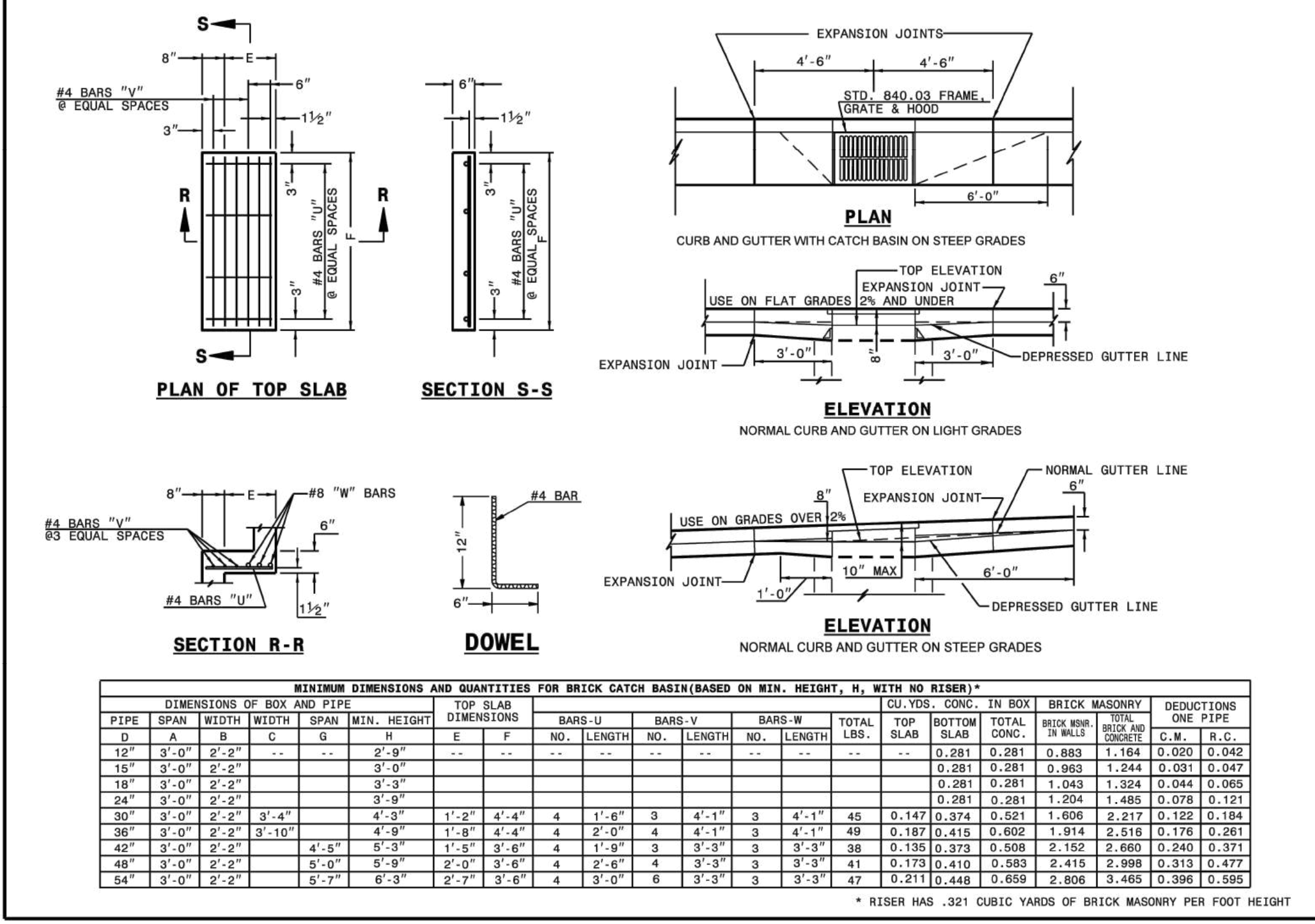
SHEET 1 OF 2 840.01



1-231 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

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

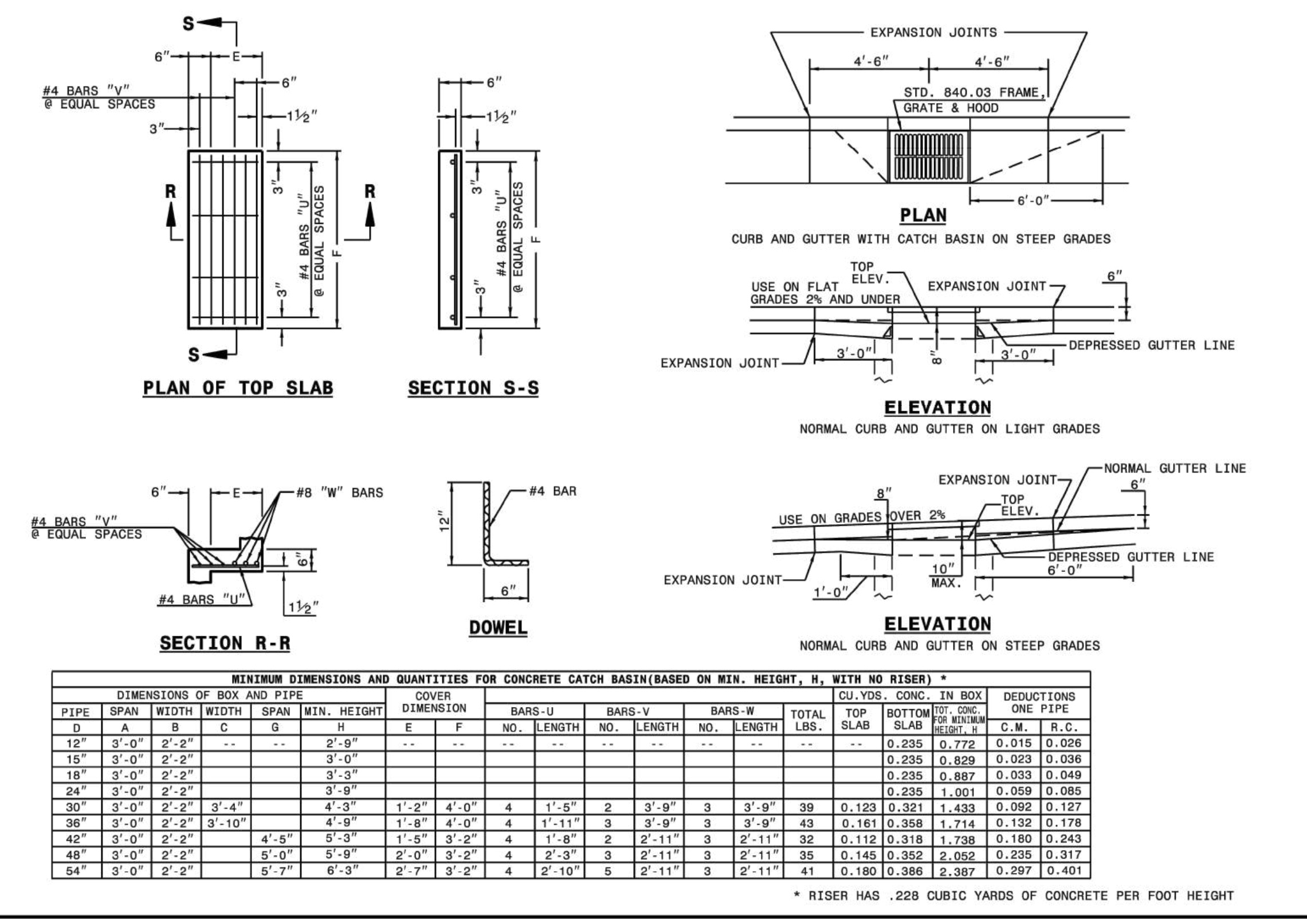
SHEET 1 OF 2 840.02



1-231 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

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

SHEET 2 OF 2 840.01



1-231 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

MINIMUM DIMENSIONS AND QUANTITIES FOR BRICK CATCH BASIN (BASED ON MIN. HEIGHT, H, WITH NO RISER)*

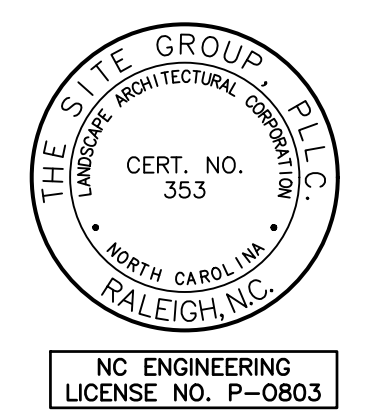
PIPE	DIMENSIONS OF BOX AND PIPE				TOP SLAB DIMENSIONS			BARS-U			BARS-V			BARS-W			TOTAL			DEDUCTIONS				
	SPAN	WIDTH	WIDTH	SPAN	MIN. HEIGHT	E	F	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	C.M.	R.C.	
12"	3'-0"	2'-2"	2'-2"	3'-0"	2'-9"	3'-0"	3'-0"	0	0	0	0	0	0	0	0	0	0	0	0	0	0.281	0.281	0.020	0.042
15"	3'-0"	2'-2"	2'-2"	3'-0"	3'-0"	3'-0"	3'-0"	0	0	0	0	0	0	0	0	0	0	0	0	0	0.281	0.281	0.031	0.047
18"	3'-0"	2'-2"	2'-2"	3'-0"	3'-0"	3'-0"	3'-0"	0	0	0	0	0	0	0	0	0	0	0	0	0	0.281	0.281	0.044	0.065
24"	3'-0"	2'-2"	2'-2"	3'-0"	3'-0"	3'-0"	3'-0"	0	0	0	0	0	0	0	0	0	0	0	0	0	0.281	0.281	0.078	0.121
30"	3'-0"	2'-2"	2'-2"	3'-0"	4'-9"	1'-2"	4'-4"	4	1'-6"	3	4'-1"	3	4'-1"	3	4'-1"	45	0.147	0.374	0.521	1.606	2.217	0.122	0.184	
36"	3'-0"	2'-2"	2'-2"	3'-0"	4'-9"	1'-8"	4'-4"	4	2'-0"	4	4'-1"	3	4'-1"	49	0.187	0.415	0.602	1.914	2.516	0.176	0.261			
42"	3'-0"	2'-2"	2'-2"	3'-0"	4'-9"	1'-5"	3'-6"	4	1'-9"	3	3'-3"	3	3'-3"	38	0.135	0.373	0.508	1.522	2.060	0.240	0.371			
48"	3'-0"	2'-2"	2'-2"	3'-0"	5'-0"	5'-9"	2'-0"	3'-6"	4	2'-6"	4	3'-3"	3	3'-3"	41	0.173	0.410	0.553	2.415	2.998	0.313	0.477		
54"	3'-0"	2'-2"	2'-2"	3'-0"	5'-7"	6'-3"	2'-7"	3'-6"	4	3'-0"	6	3'-3"	3	3'-3"	47	0.211	0.448	0.659	2.806	3.465	0.396	0.595		

* RISER HAS .321 CUBIC YARDS OF BRICK MASONRY PER FOOT HEIGHT

MINIMUM DIMENSIONS AND QUANTITIES FOR CONCRETE CATCH BASIN (BASED ON MIN. HEIGHT, H, WITH NO RISER)*

PIPE	DIMENSIONS OF BOX AND PIPE				COVER DIMENSION			BARS-U			BARS-V			BARS-W			TOTAL			DEDUCTIONS				
	SPAN	WIDTH	WIDTH	SPAN	MIN. HEIGHT	E	F	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	C.M.	R.C.	
12"	3'-0"	2'-2"	2'-2"	3'-0"	2'-9"	3'-0"	3'-0"	0	0	0	0	0	0	0	0	0	0	0	0	0	0.235	0.235	0.015	0.026
15"	3'-0"	2'-2"	2'-2"	3'-0"	3'-0"	3'-0"	3'-0"	0	0	0	0	0	0	0	0	0	0	0	0	0	0.235	0.235	0.023	0.036
18"	3'-0"	2'-2"	2'-2"	3'-0"	3'-0"	3'-0"	3'-0"	0	0	0	0	0	0	0	0	0	0	0	0	0	0.235	0.235	0.033	0.049
24"	3'-0"	2'-2"	2'-2"	3'-0"	3'-0"	3'-0"	3'-0"	0	0	0	0	0	0	0	0	0	0	0	0	0	0.235	0.235	0.059	0.085
30"	3'-0"	2'-2"	2'-2"	3'-0"	4'-9"	1'-2"	4'-0"	4	1'-5"	2	3'-9"	3	3'-9"	39	0.123	0.321	0.433	1.433	1.932	0.092	0.127			
36"	3'-0"	2'-2"	2'-2"	3'-0"	4'-9"	1'-8"	4'-0"	4	1'-11"	3	3'-9"	3	3'-9"	43	0.161	0.358	0.474	1.714	2.322	0.122	0.178			
42"	3'-0"	2'-2"	2'-2"	3'-0"	4'-9"	1'-5"	3'-2"	4	1'-8"	2	2'-11"	3	2'-11"	32	0.112	0.318	0.428	1.428	1.960	0.180	0.243			
48"	3'-0"	2'-2"	2'-2"	3'-0"	5'-0"	5'-9"	2'-0"	3'-2"	4	2'-3"	3	2'-11"	3	2'-11"	35	0.145	0.352	0.462	1.612	2.174	0.235	0.317		
54"	3'-0"	2'-2"	2'-2"	3'-0"	5'-7"	6'-3"	2'-7"	3'-2"	4	2'-10"	5	2'-11"	3	2'-11"	41	0.180	0.386	0.507	1.817	2.424	0.297	0.401		

* RISER HAS .228 CUBIC YARDS OF CONCRETE PER FOOT HEIGHT



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SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:
KIDDIE ACADEMY
 LOT 4 AT WALLBROOK
 851 S MAIN ST.
 ROLESVILLE, NORTH CAROLINA

Drawn By: LLF
 Checked By: SRN

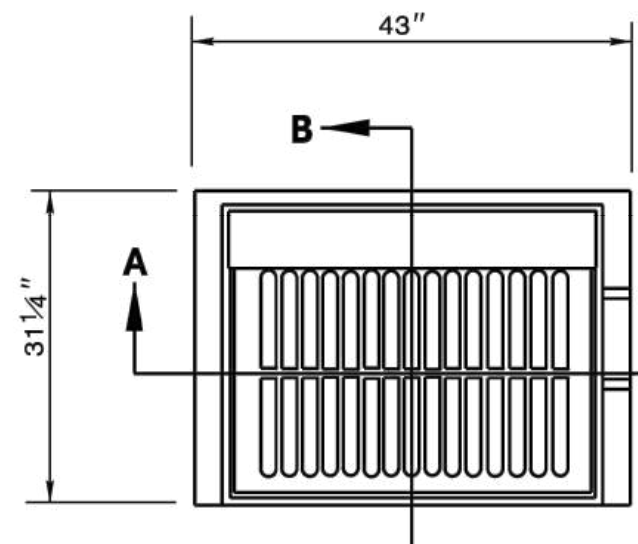
DATE: 30 JAN 2026

SITE DEVELOPMENT PLAN

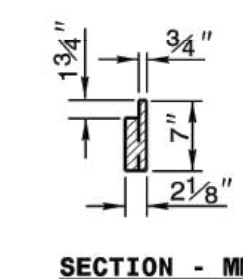
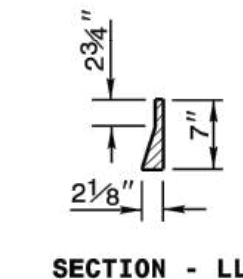
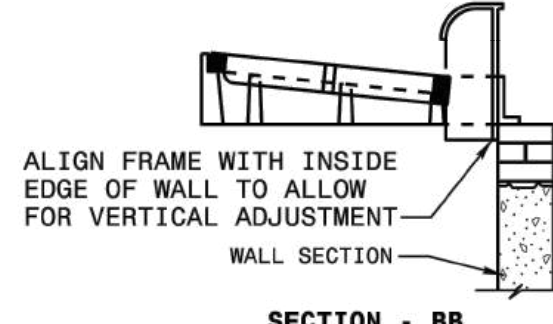
SITE DETAILS

Job Code: SSRCC

Dwg No. SITE 602

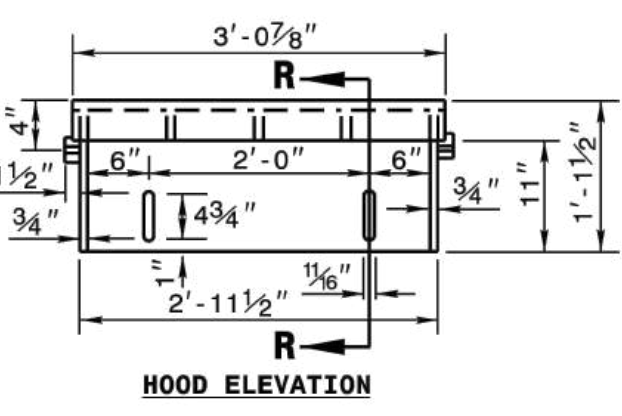
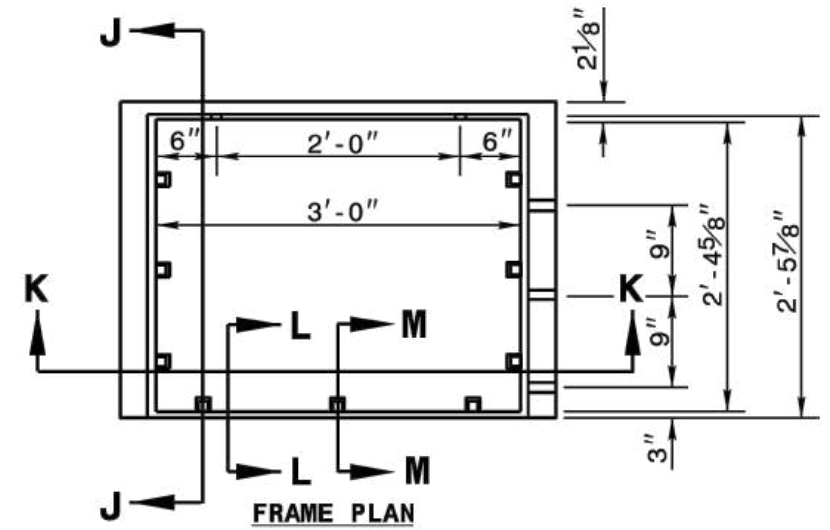


NOTE: USE TYPE "E", "F" AND "G" GRATE UNLESS OTHERWISE NOTED.

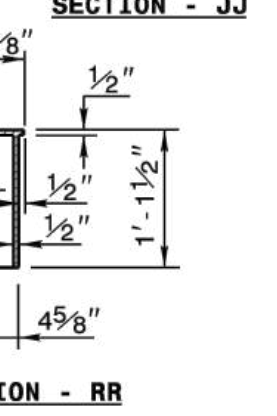
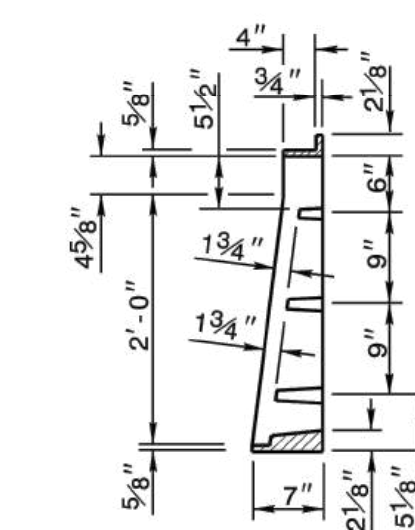


PLAN
FRAME, GRATE, & HOOD ASS'Y

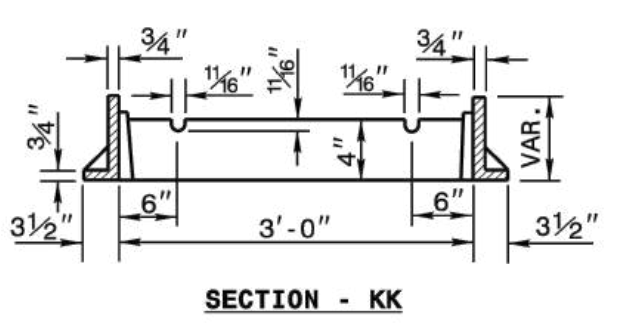
SECTION - AA



HOOD ELEVATION

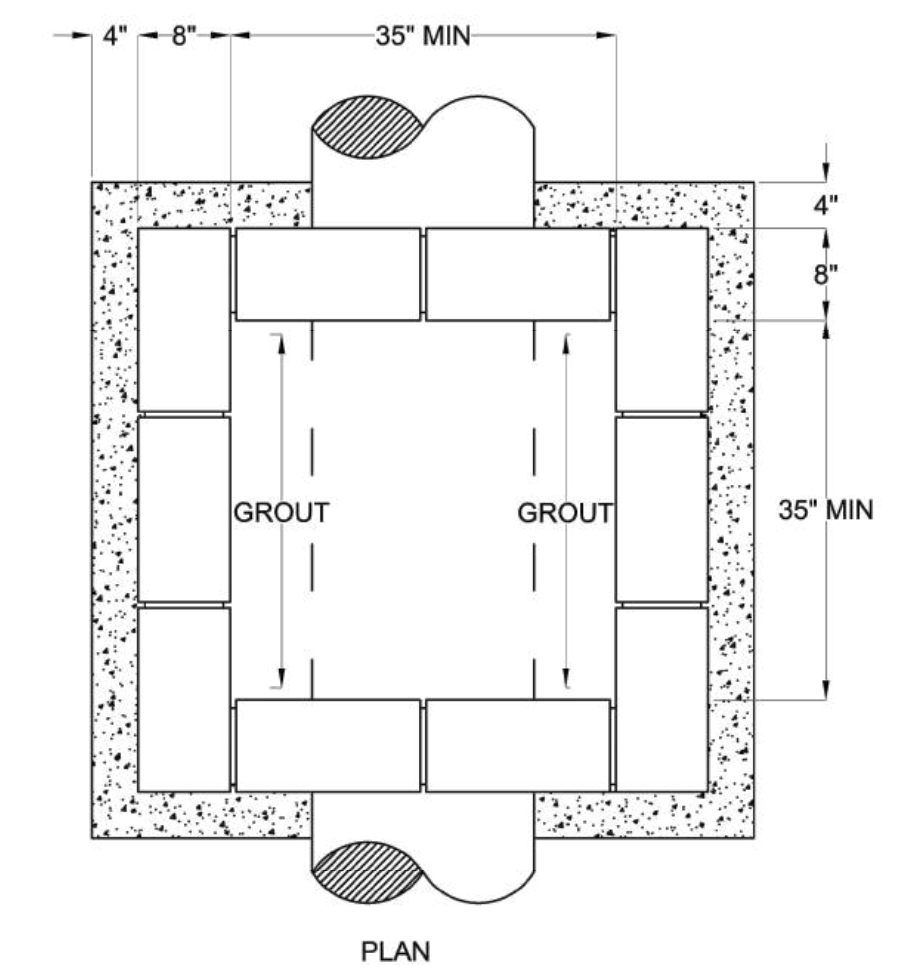


SECTION - RR

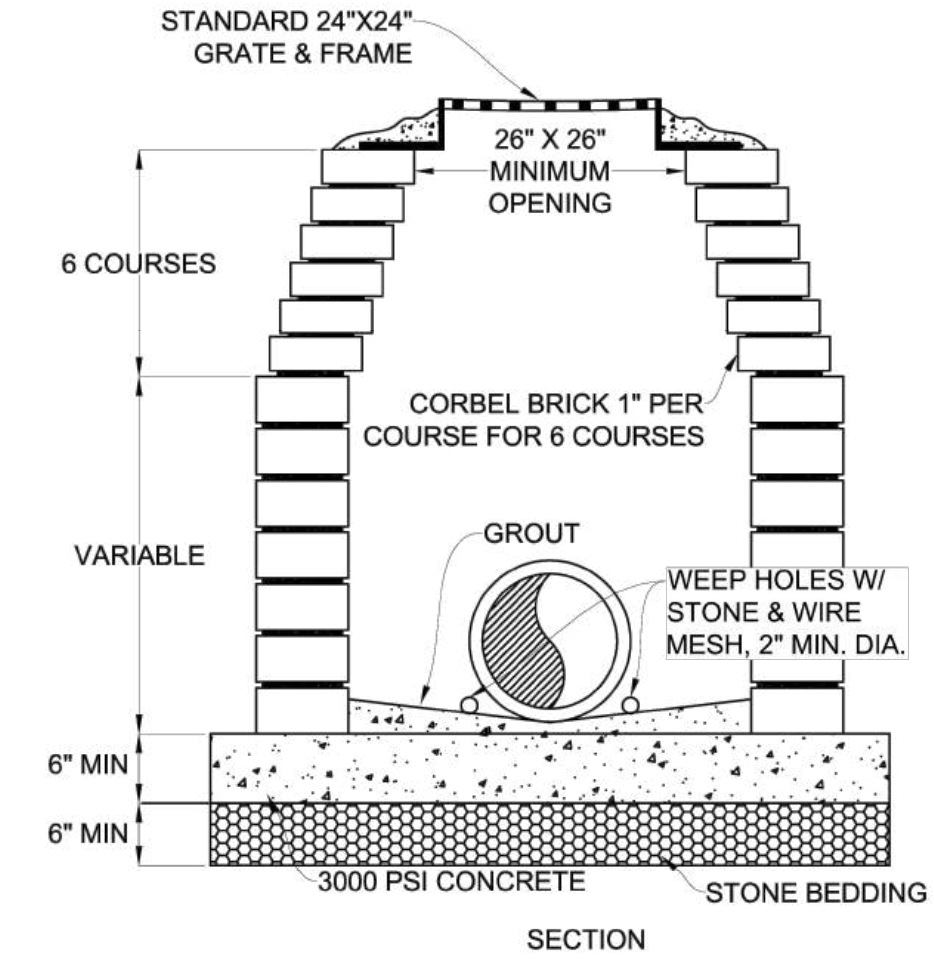


SECTION - KK

1-241 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
ROADWAY STANDARD DRAWING FOR FRAME, GRATES, AND HOOD FOR USE ON STANDARD CATCH BASIN
SHEET 1 OF 2
840.03



PLAN

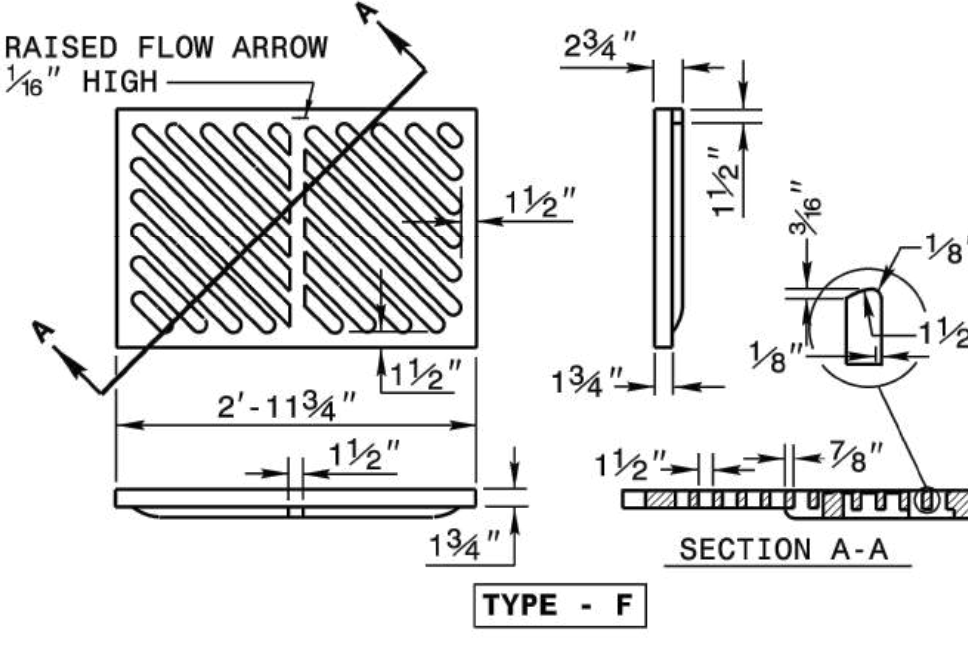
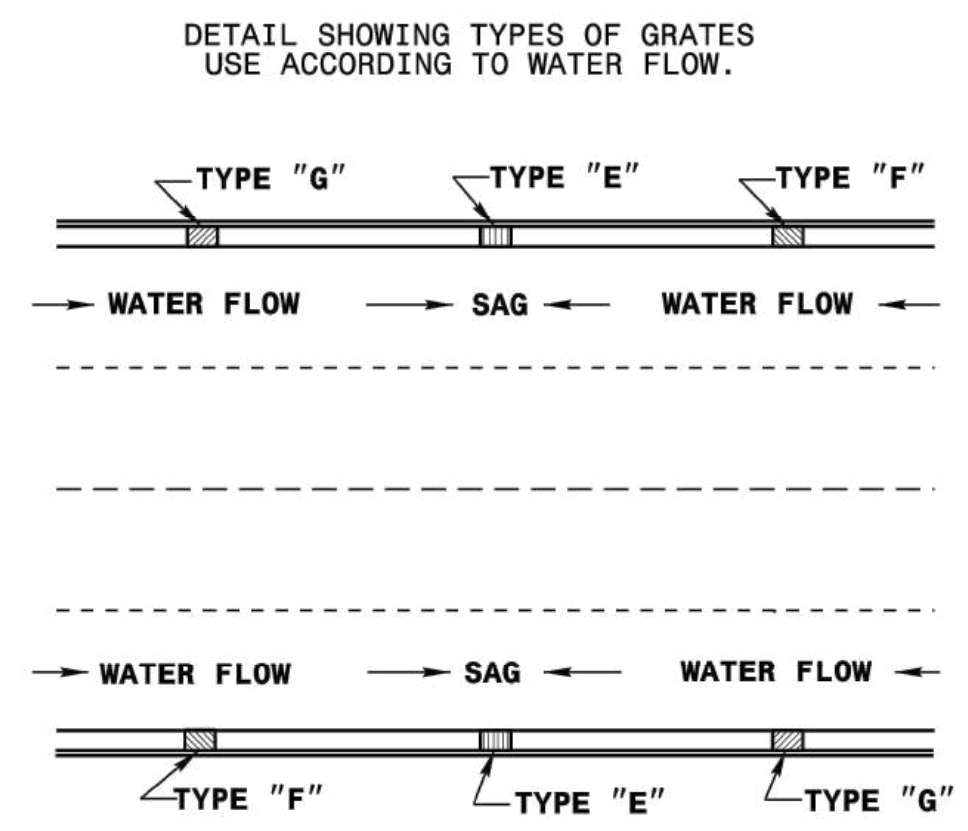


SECTION

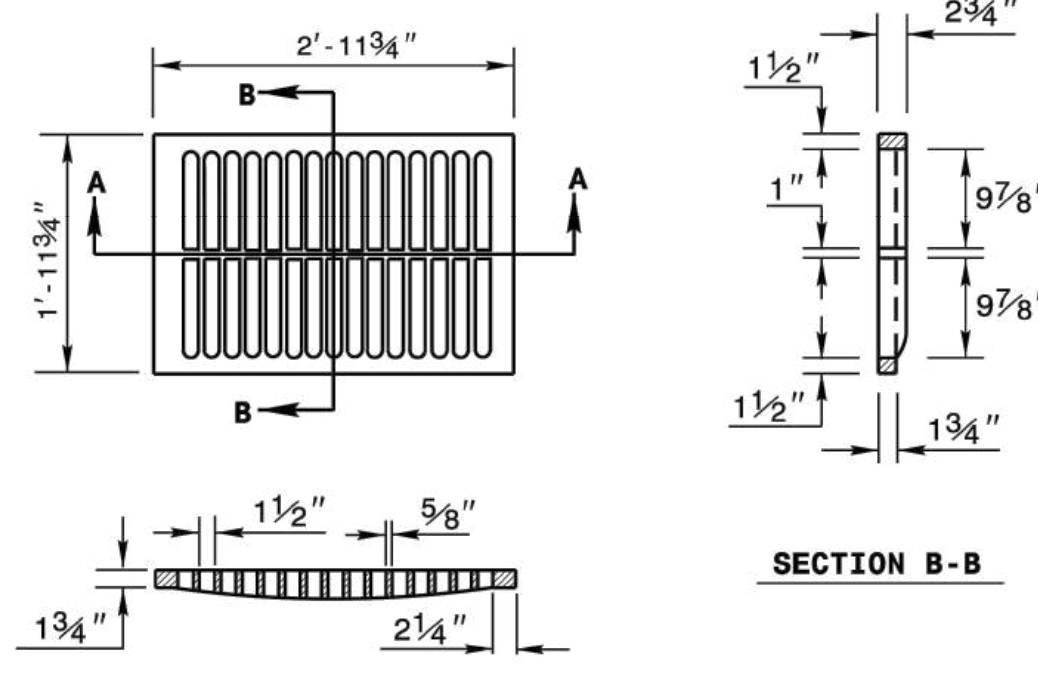
NOTE:
1. EITHER SOLID BLOCK, CONCRETE, OR PRECAST CONCRETE MAY BE USED.
2. FOR 24" R.C.P. AND LARGER--USE PIPE DIA PLUS 12" FOR MINIMUM INSIDE DIMENSION.
3. CAST IN PLACE DESIGNS TO BE SUBMITTED.

YARD INLET W/ GRATE & FRAME

STD. NO.
500.02
SHEET 1 OF 1

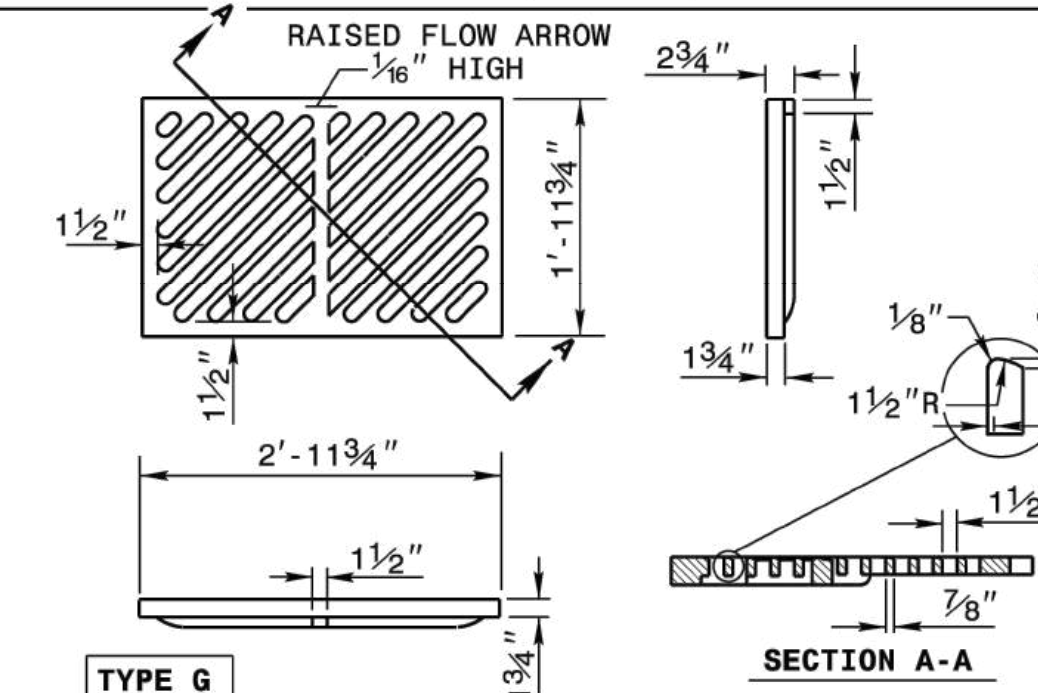


TYPE - F



SECTION A-A

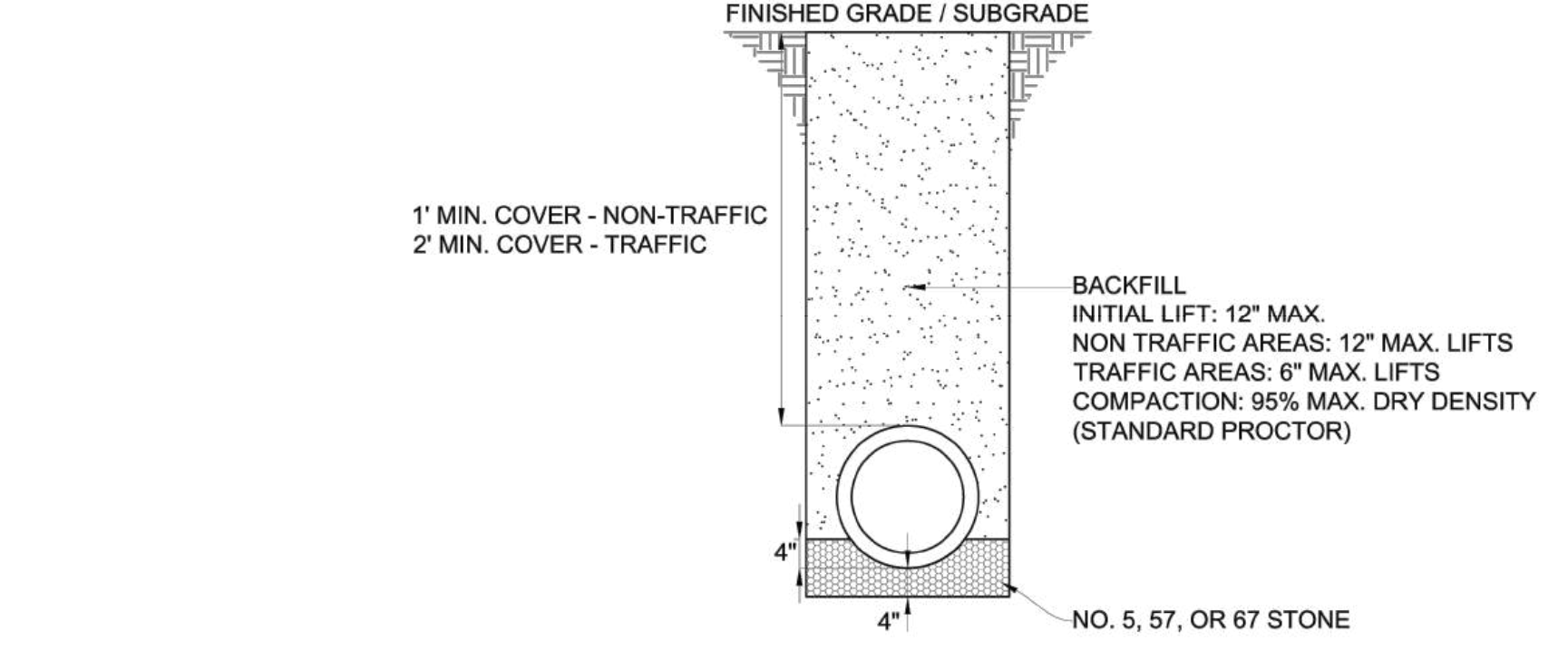
TYPE - E



TYPE G

SECTION A-A

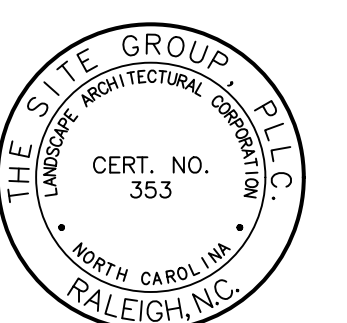
1-241 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
ROADWAY STANDARD DRAWING FOR FRAME, GRATES, AND HOOD FOR USE ON STANDARD CATCH BASIN
SHEET 2 OF 2
840.03



NOTES:
1. EXCAVATE TO 4 INCHES BELOW THE PROPOSED PIPE ELEVATION.
2. PROVIDE 4 INCHES STONE BEDDING AND 4 INCHES STONE BACKFILL.
3. WHERE BELL AND SPIGOT PIPE IS USED, PROVIDE RECESSES TO RECEIVE PIPE BELL.
4. UNDERCUT UNSUITABLE MATERIAL AS DIRECTED BY THE ENGINEER AND BACKFILL WITH STONE OR OTHER APPROVED MATERIAL.
5. WHERE NECESSARY, TEMPORARILY DIVERT SURFACE WATER TO MAINTAIN A DRY CONDITION IN THE PIPE FOUNDATION. DIRECT THIS TEMPORARY FLOW INTO SUITABLE EROSION CONTROL DEVICES.

STORM DRAIN PIPE BEDDING & BACKFILLING

STD. NO.
500.09
SHEET 1 OF 1



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SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:
KIDDIE ACADEMY
LOT 4 AT WALLBROOK
851 S. MAIN ST.
ROLESVILLE, NORTH CAROLINA

Drawn By: LFF
Checked By: SRN

DATE:
30 JAN 2026

SITE DEVELOPMENT PLAN

SITE DETAILS

Job Code: SSRCC

Dwg No.
SITE
603

WELDED RING OR FRICTION RESTRAINING GLAND
THRUST COLLAR
UNDISTURBED SOIL
SECTION
PLAN VIEW

REINFORCING REQUIREMENTS

I.D. PIPE	REBAR SIZE	"X" BAR LENGTH	"X" BAR WEIGHT	"Y" BAR LENGTH	"Y" BAR WEIGHT	NO. REQUIRED
6"-36"	#5	2'-2"+ O.D. PIPE	1.043 LBS/FT	1'-1"	1.1 LBS. EACH	X-24 Y-12
≥48"	#6	3'-0"+ O.D. PIPE	1.502 LBS/FT	1'-3"	1.9 LBS. EACH	X-24 Y-12

THRUST COLLAR AND THRUST SCHEDULE

I.D. PIPE	"a"	"b"	"c"	"d"
6"-16"	1'-4"	1'-7"	2"	3/8"
20"-24"	1'-4"	1'-7"	3"	1/2"
30"-36"	1'-4"	1'-7"	4"	5/8"
≥48"	1'-8"	1'-9"	6"	3/4"

NOTES:
1. SEE DETAIL W-9 FOR THRUST BLOCK LOCATIONS.
2. CONCRETE SHALL BE 3,000 PSI AND TRANSIT MIXED.
3. REINFORCING BARS SHALL BE DEFORMED AND TIED TOGETHER.
4. TRENCH BOTTOM WIDTH IN VICINITY OF THRUST BLOCK INSTALLATION SHALL BE THE MINIMUM WIDTH AS SHOWN ON DETAIL W-3.
5. BACKFILL TAMPED IN 6" LIFTS. SEE DETAIL W-3.
6. THRUST COLLAR MUST BE FACTORY WELDED ON BOTH SIDES ALONG BOTH EDGES OF COLLAR AROUND CIRCUMFERENCE.

CITY OF RALEIGH STANDARD DETAIL
REVISIONS DATE: 01/18/2005 NOT TO SCALE
THRUST BLOCKING DESIGN DATA FOR WATER MAINS
W-7

16" MAIN - 1 THRUST BLOCK REQUIRED, ON MAINS GREATER THAN 16" 2 THRUST BLOCKS REQUIRED
STANDARD THRUST BLOCK SEE DETAIL W-7
VALVE
THRUST BLOCKING AT VALVES 16" AND LARGER

CITY OF RALEIGH STANDARD DETAIL
REVISIONS DATE: 01/18/2005 NOT TO SCALE
STANDARD THRUST BLOCKING INSTALLATION FOR 16" AND LARGER VALVES AND DEAD END MAINS
W-8

THRUST BLOCKING

TEE INTERSECTION
45° BEND
THRUST BLOCK AREA
90° BEND

NOTES:
1. CONCRETE SHALL BE 3,000 PSI.
2. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT FITTINGS.
3. TRENCHES SHALL CONFORM TO DETAIL W-3.
4. SEE DETAIL W-10 & W-11 (THRUST BLOCK TABLES) FOR AREA OF CONCRETE REQUIRED.
5. ALL BENDS AND INTERSECTIONS SHALL HAVE CONCRETE THRUST BLOCKING.

CITY OF RALEIGH STANDARD DETAIL
REVISIONS DATE: 01/18/2005 NOT TO SCALE
THRUST BLOCKING VIEWS
W-9

REACTION BEARING AREAS FOR HORIZONTAL WATER PIPE BENDS BASED ON TEST PRESSURE OF 200 PSI
ALL AREAS GIVEN IN SQUARE FEET

SIZE OF BEND	DEGREE OF BEND	STATIC THRUST IN POUNDS	MODERATELY DRY CLAY 4,000 LBS/FT²	SOFT CLAY 2,000 LBS/FT²	1,600 LBS/FT² GRAVEL/COARSE SAND	8,000 LBS/FT² DRY CLAY (ALWAYS DRY)	SAND-COMPACT FIRM 8,000 LBS/FT²	SAND-CLEAN DRY 4,000 LBS/FT²	SOIL 1,000 LBS/FT² QUICKSAND (VERY POOR)	ROCK-POOR 10,000 LBS/FT²
6"	11 1/4°	1,108	1	1	1	1	1	1	2	1
	22 1/2°	2,207	1	2	2	1	1	1	3	1
	45°	4,328	2	3	3	1	1	2	5	1
	90°	7,996	2	4	5	1	1	2	8	1
	PLUG	5,655	2	3	4	1	1	2	6	1
8"	11 1/4°	1,970	1	1	2	1	1	1	2	1
	22 1/2°	3,922	1	2	3	1	1	1	4	1
	45°	7,694	2	4	5	1	1	2	8	1
	90°	14,215	4	8	9	2	2	4	15	2
	PLUG	10,053	3	5	6	2	2	3	10	1
12"	11 1/4°	4,433	2	3	3	1	1	2	5	1
	22 1/2°	8,826	3	5	6	2	2	3	9	1
	45°	17,312	5	9	11	3	3	5	18	2
	90°	31,983	8	16	19	4	4	8	32	4
	PLUG	22,619	6	12	14	3	3	6	23	3
16"	11 1/4°	7,881	2	4	5	1	1	2	8	1
	22 1/2°	15,691	4	8	10	2	2	4	16	2
	45°	30,779	8	16	19	4	4	8	31	4
	90°	56,861	15	29	35	8	8	15	57	6
	PLUG	40,213	10	21	25	5	5	10	41	5

NOTES:
1. REACTION BEARING AREAS ARE IN SQUARE FEET MEASURED IN A VERTICAL PLANE IN THE TRENCH SIDE AT AN ANGLE OF 90° TO THE THRUST VECTOR.
2. USE 6" 90° BEND VALUE FOR HYDRANTS FOR ADDITIONAL SAFETY FACTOR.

CITY OF RALEIGH STANDARD DETAIL
REVISIONS DATE: 01/18/2005 NOT TO SCALE
THRUST BLOCKING DESIGN QUANTITY TABLE
W-10

REACTION BEARING AREAS FOR HORIZONTAL WATER PIPE BENDS BASED ON TEST PRESSURE OF 200 PSI
ALL AREAS GIVEN IN SQUARE FEET

SIZE OF BEND	DEGREE OF BEND	STATIC THRUST IN POUNDS	MODERATELY DRY CLAY 4,000 LBS/FT²	SOFT CLAY 2,000 LBS/FT²	1,600 LBS/FT² GRAVEL/COARSE SAND	8,000 LBS/FT² DRY CLAY (ALWAYS DRY)	SAND-COMPACT FIRM 8,000 LBS/FT²	SAND-CLEAN DRY 4,000 LBS/FT²	SOIL 1,000 LBS/FT² QUICKSAND (VERY POOR)	ROCK-POOR 10,000 LBS/FT²
24"	11 1/4°	17,734	5	9	11	3	3	5	18	2
	22 1/2°	35,305	9	18	22	5	5	9	36	4
	45°	69,252	18	35	42	9	9	18	70	7
	90°	127,936	32	64	77	16	16	32	128	113
	PLUG	90,478	23	46	55	12	12	23	91	10
30"	11 1/4°	27,709	7	14	17	4	4	7	2	3
	22 1/2°	55,163	14	28	34	7	7	14	56	6
	45°	108,206	28	55	65	14	14	28	109	11
	90°	199,900	50	100	120	25	25	50	200	20
	PLUG	141,372	36	71	85	18	18	36	142	15
36"	11 1/4°	39,901	10	20	24	5	5	10	40	4
	22 1/2°	79,439	20	40	48	10	10	20	80	8
	45°	155,816	39	78	94	20	20	39	156	16
	90°	287,855	72	144	172	36	36	72	288	29
	PLUG	203,575	51	102	122	26	26	51	204	21
48"	11 1/4°	70,935	18	36	43	9	9	18	71	8
	22 1/2°	141,218	36	71	85	18	18	36	142	15
	45°	277,007	70	139	166	35	35	70	277	28
	90°	511,742	128	256	320	64	64	128	512	52
	PLUG	361,911	91	181	217	46	46	91	362	37

NOTES:
1. REACTION BEARING AREAS ARE IN SQUARE FEET MEASURED IN A VERTICAL PLANE IN THE TRENCH SIDE AT AN ANGLE OF 90° TO THE THRUST VECTOR.
2. USE 6" 90° BEND VALUE FOR HYDRANTS FOR ADDITIONAL SAFETY FACTOR.

CITY OF RALEIGH STANDARD DETAIL
REVISIONS DATE: 01/18/2005 NOT TO SCALE
THRUST BLOCKING DESIGN QUANTITY TABLE
W-11

STRAP DOWN (2 STRAPS) 316 STAINLESS STEEL, EMBED IN CONCRETE
3/4" THREADED 316 STAINLESS STEEL RODS
CONCRETE THRUST BLOCK AT ALL 45° BENDS, SEE DETAIL W-9
SIZE OF BLOCKING WILL VARY WITH PIPE SIZE
THRUST COLLAR, SEE DETAIL W-7
MECHANICAL JOINT RETAINER GLAND
5" MIN.

RESTRAINT REQUIREMENTS

PIPE DIA	RJ RODDING	THRUST COLLAR BLOCKING
<12"	X	X
≥12"	X	X

STRAP REQUIREMENTS

STRAP WIDTH	THICKNESS
1"	3/8"
1.5"	3/4"
2"	1"
4"	1 1/2"

ROD REQUIREMENTS

NO. OF RODS REQUIRED	SIZE OF BEND	STATIC THRUST IN POUNDS
2	6"	4,328
4	8"	7,694
4	12"	17,312
8	16"	30,779
8	24"	69,252

NOTES:
1. STEEL RODS AND BOLTS SHALL BE 3/4" 316 STAINLESS STEEL.
2. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT BENDS.
3. RESTRAINED MECHANICAL GLANDS TO BE USED AT ALL FITTINGS.
4. SYSTEM SHALL BE WELDED TO THE MAIN WHERE NECESSARY.
5. WELDED JOINTS MUST BE WELDED.
6. EXTERNAL RESTRAINT REQUIRED. INTEGRAL BELL RESTRAINT REQUIRES DIRECTOR'S APPROVAL.

CITY OF RALEIGH STANDARD DETAIL
REVISIONS DATE: 01/18/2005 NOT TO SCALE
STANDARD VERTICAL BEND
W-12

CENTERLINE OF MAIN & MARKER
PLASTIC MARKER
TOP OF GRADE
12" DIA. HOLE FILLED WITH CONCRETE

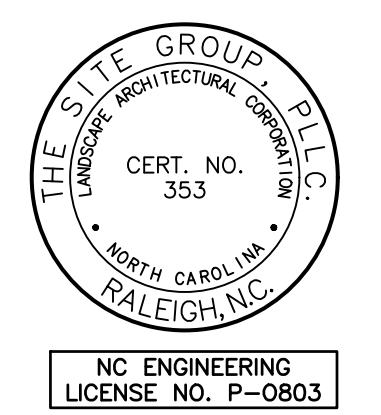
NOTES:
1. POTABLE WATER MARKER TO BE BLUE IN COLOR.
2. POTABLE WATER MARKER TO BE LABELED "RALEIGH WATER"
3. TO BE SPACED ALONG CENTERLINE OF MAIN EVERY 300 FEET.
4. MARKERS TO BE ROUND AND 4" IN DIAMETER.

CITY OF RALEIGH STANDARD DETAIL
REVISIONS DATE: 01/18/2005 NOT TO SCALE
MAIN & VALVE MARKER FOR POTABLE WATER IN EASEMENTS
W-13

GATE/TAPPING VALVE
TOP VIEW
FLANGE
VALVE
M.J. FITTING
EXISTING MAIN
TAPPING SLEEVE
SIDE VIEW

NOTES:
1. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT FITTINGS.
2. SEE DETAIL W-10 & W-11 (REACTION BLOCK TABLES) FOR AREA OF CONCRETE REQUIRED.
3. 3,000 PSI SOLID CONCRETE SHALL BE USED AS FOOTING FOR DUCTILE IRON PIPE.
4. FULL CIRCUMFERENCE SLEEVE, STAINLESS STEEL MATERIAL REQUIRED.

CITY OF RALEIGH STANDARD DETAIL
REVISIONS DATE: 01/18/2005 NOT TO SCALE
4"-24" STANDARD TAPPING SLEEVE AND VALVE ASSEMBLY
W-14



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SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:
KIDDIE ACADEMY
LOT 4 AT WALLBROOK
851 S MAIN ST.
ROLESVILLE, NORTH CAROLINA

Drawn By: **LLF**
Checked By: **SRN**

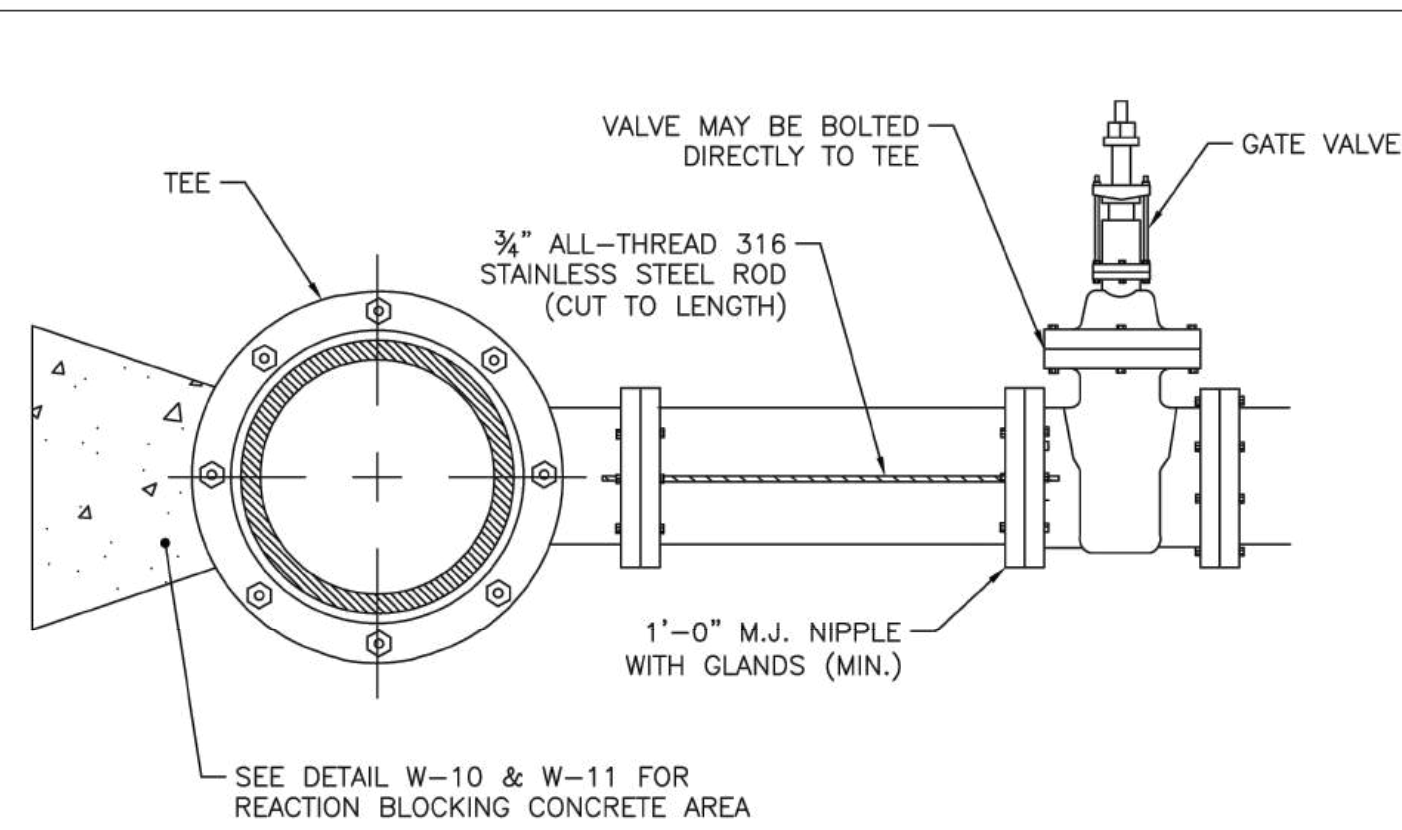
DATE: 30 JAN 2026

SITE DEVELOPMENT PLAN

SITE DETAILS

Job Code: **SSRCC**

Dwg No. **SITE 605**



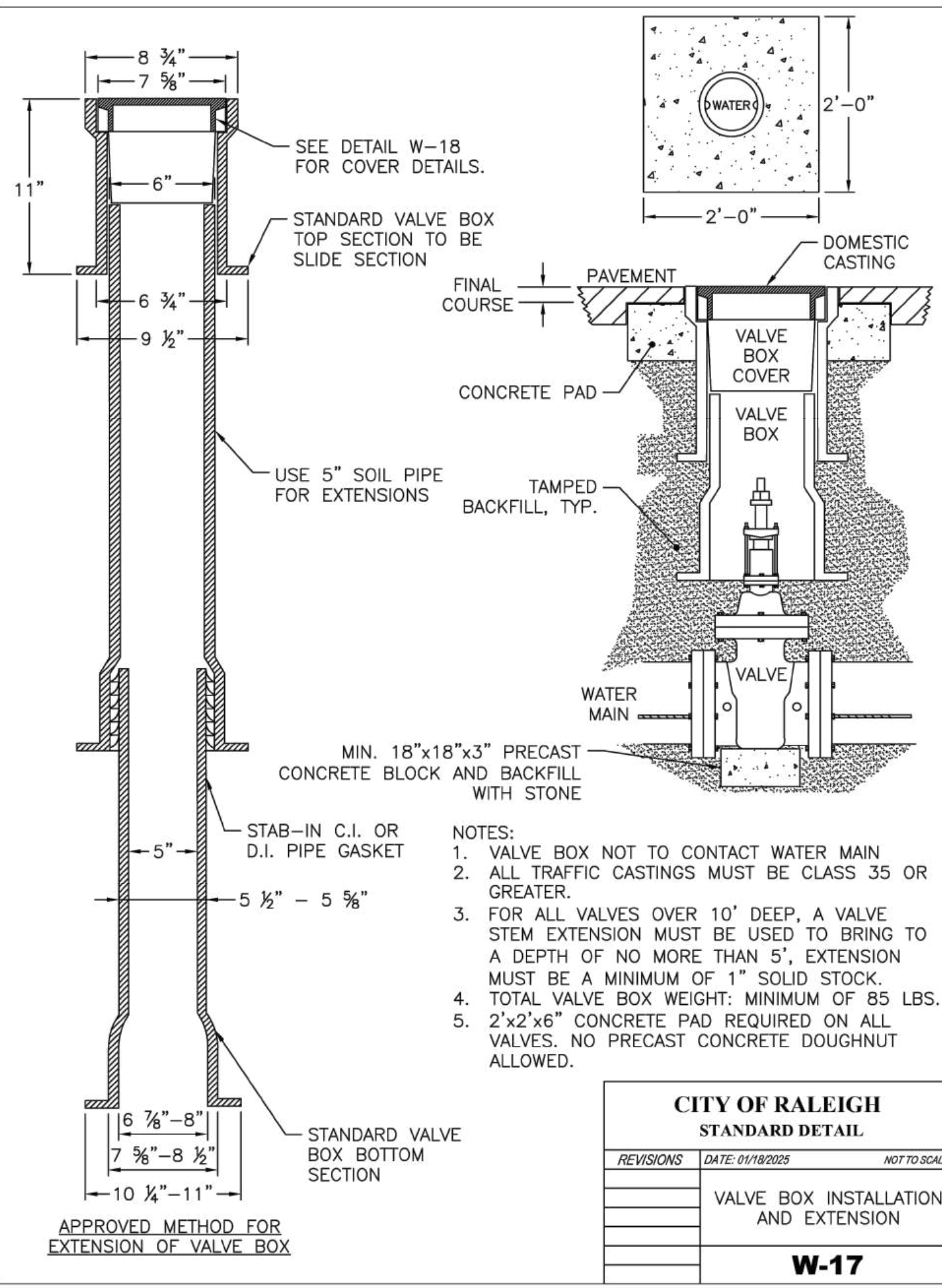
ROD REQUIREMENTS

BRANCH SIZE	NO. OF RODS
4"	2
6"	2
8"	4
12"	4
16"	6
24"	6
30"	8
36"	8

- NOTES:
1. STEEL RODS AND BOLTS SHALL BE 3/4" 316 STAINLESS STEEL.
 2. SEE DETAIL W-10 AND W-11 (THRUST BLOCK TABLES) FOR CONCRETE.
 3. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL FITTINGS.
 4. THIS RODDING REQUIREMENT DOES NOT APPLY TO FIRE HYDRANTS.

CITY OF RALEIGH
STANDARD DETAIL

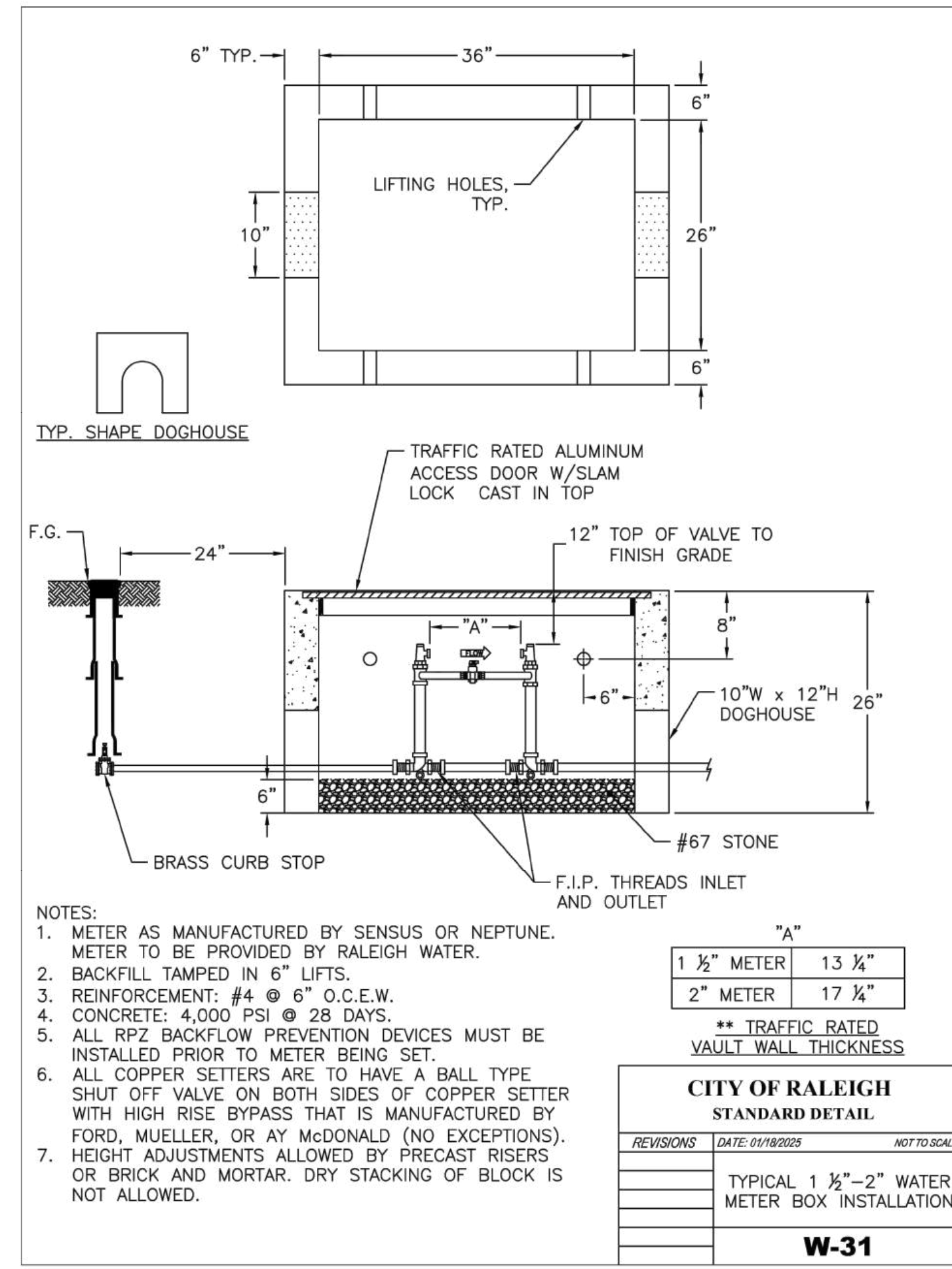
REVISIONS	DATE: 01/18/2009	NOT TO SCALE
		VALVE RESTRAINT AT TEES AND CROSSES FOR LINES (4"-24")
		W-15



- NOTES:
1. VALVE BOX NOT TO CONTACT WATER MAIN
 2. ALL TRAFFIC CASTINGS MUST BE CLASS 35 OR GREATER.
 3. FOR ALL VALVES OVER 10' DEEP, A VALVE STEM EXTENSION MUST BE USED TO BRING TO A DEPTH OF NO MORE THAN 5'. EXTENSION MUST BE A MINIMUM OF 1" SOLID STOCK.
 4. TOTAL VALVE BOX WEIGHT: MINIMUM OF 85 LBS.
 5. 2'x2'x6" CONCRETE PAD REQUIRED ON ALL VALVES. NO PRECAST CONCRETE DOUGHNUT ALLOWED.

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/18/2009	NOT TO SCALE
		VALVE BOX INSTALLATION AND EXTENSION
		W-17



- NOTES:
1. METER AS MANUFACTURED BY SENSUS OR NEPTUNE. METER TO BE PROVIDED BY RALEIGH WATER.
 2. BACKFILL TAMPED IN 6" LIFTS.
 3. REINFORCEMENT: #4 @ 6" O.C.E.W.
 4. CONCRETE: 4,000 PSI @ 28 DAYS.
 5. ALL RPZ BACKFLOW PREVENTION DEVICES MUST BE INSTALLED PRIOR TO METER BEING SET.
 6. ALL COPPER SETTERS ARE TO HAVE A BALL TYPE SHUT OFF VALVE ON BOTH SIDES OF COPPER SETTER WITH HIGH RISE BYPASS THAT IS MANUFACTURED BY FORD, MUELLER, OR AY McDONALD (NO EXCEPTIONS).
 7. HEIGHT ADJUSTMENTS ALLOWED BY PRECAST RISERS OR BRICK AND MORTAR. DRY STACKING OF BLOCK IS NOT ALLOWED.

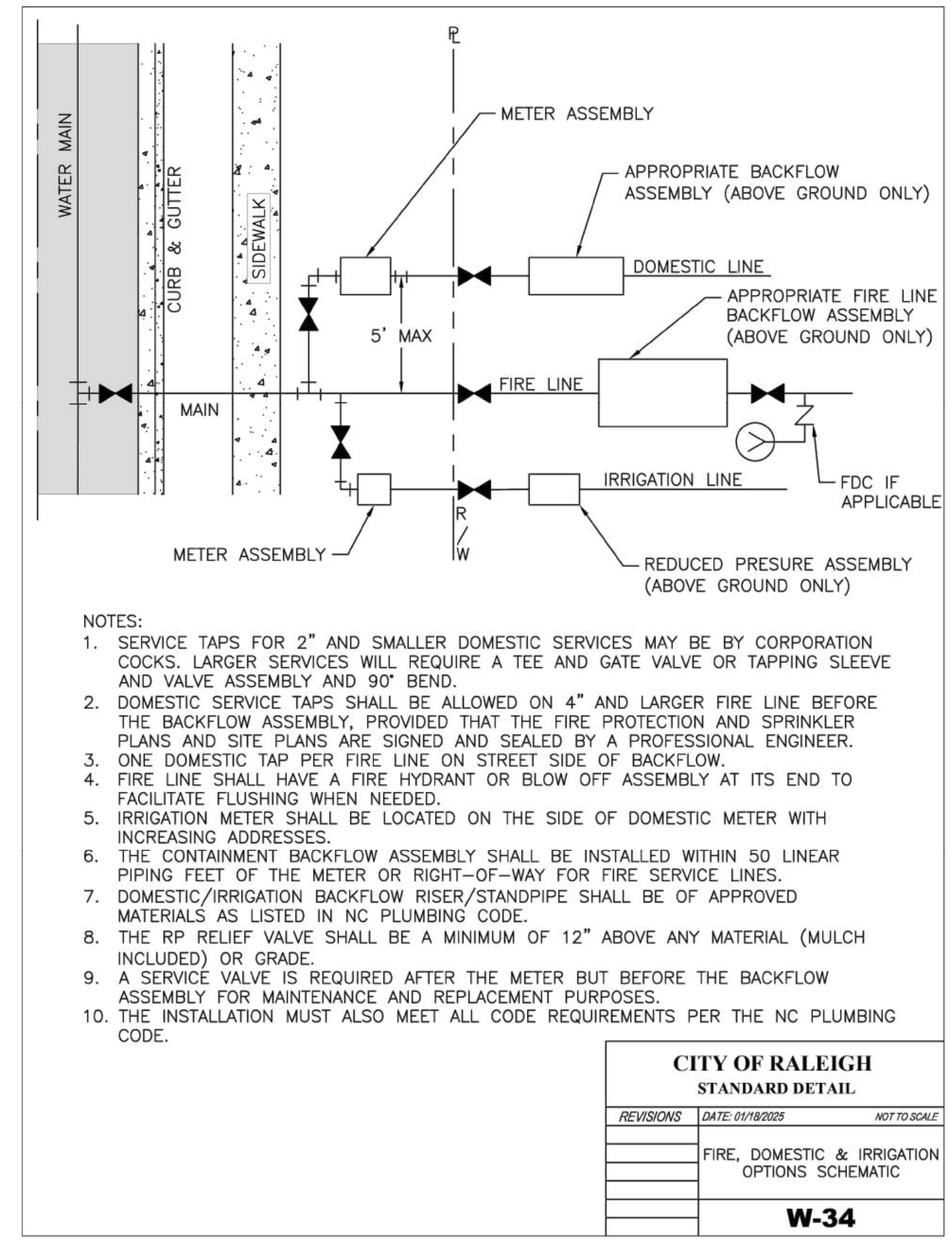
"A"

1 1/2" METER	13 1/2"
2" METER	17 1/2"

** TRAFFIC RATED VAULT WALL THICKNESS

CITY OF RALEIGH
STANDARD DETAIL

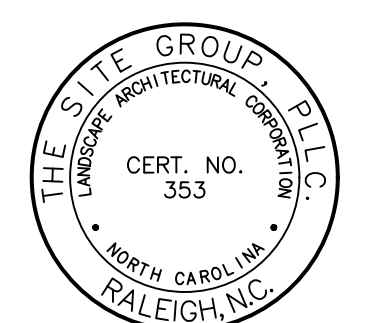
REVISIONS	DATE: 01/18/2009	NOT TO SCALE
		TYPICAL 1 1/2"-2" WATER METER BOX INSTALLATION
		W-31



- NOTES:
1. SERVICE TAPS FOR 2" AND SMALLER DOMESTIC SERVICES MAY BE BY CORPORATION COCKS. LARGER SERVICES WILL REQUIRE A TEE AND GATE VALVE OR TAPPING SLEEVE AND VALVE ASSEMBLY AND 90° BEND.
 2. DOMESTIC SERVICE TAPS SHALL BE ALLOWED ON 4" AND LARGER FIRE LINE BEFORE THE BACKFLOW ASSEMBLY. PROVIDED THAT THE FIRE PROTECTION AND SPRINKLER PLANS AND SITE PLANS ARE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER.
 3. ONE DOMESTIC TAP PER FIRE LINE ON STREET SIDE OF BACKFLOW.
 4. FIRE LINE SHALL HAVE A FIRE HYDRANT OR BLOW OFF ASSEMBLY AT ITS END TO FACILITATE FLUSHING WHEN NEEDED.
 5. IRRIGATION METER SHALL BE LOCATED ON THE SIDE OF DOMESTIC METER WITH INCREASING ADDRESSES.
 6. THE CONTAINMENT BACKFLOW ASSEMBLY SHALL BE INSTALLED WITHIN 50 LINEAR PIPING FEET OF THE METER OR RIGHT-OF-WAY FOR FIRE SERVICE LINES.
 7. DOMESTIC/IRRIGATION BACKFLOW RISER/STANDPIPE SHALL BE OF APPROVED MATERIALS AS LISTED IN NC PLUMBING CODE.
 8. THE RP RELIEF VALVE SHALL BE A MINIMUM OF 12" ABOVE ANY MATERIAL (MULCH INCLUDED) OR GRADE.
 9. A SERVICE VALVE IS REQUIRED AFTER THE METER BUT BEFORE THE BACKFLOW ASSEMBLY FOR MAINTENANCE AND REPLACEMENT PURPOSES.
 10. THE INSTALLATION MUST ALSO MEET ALL CODE REQUIREMENTS PER THE NC PLUMBING CODE.

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/18/2009	NOT TO SCALE
		FIRE, DOMESTIC & IRRIGATION OPTIONS SCHEMATIC
		W-34



NC ENGINEERING LICENSE NO. P-0803



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SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:
KIDDIE ACADEMY
LOT 4 AT WALLBROOK
851 S. MAIN ST.
ROLESVILLE, NORTH CAROLINA

Drawn By: **LLF**
Checked By: **SRN**

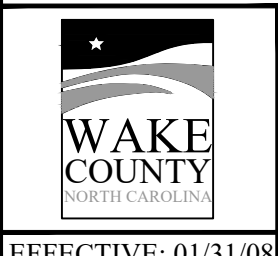
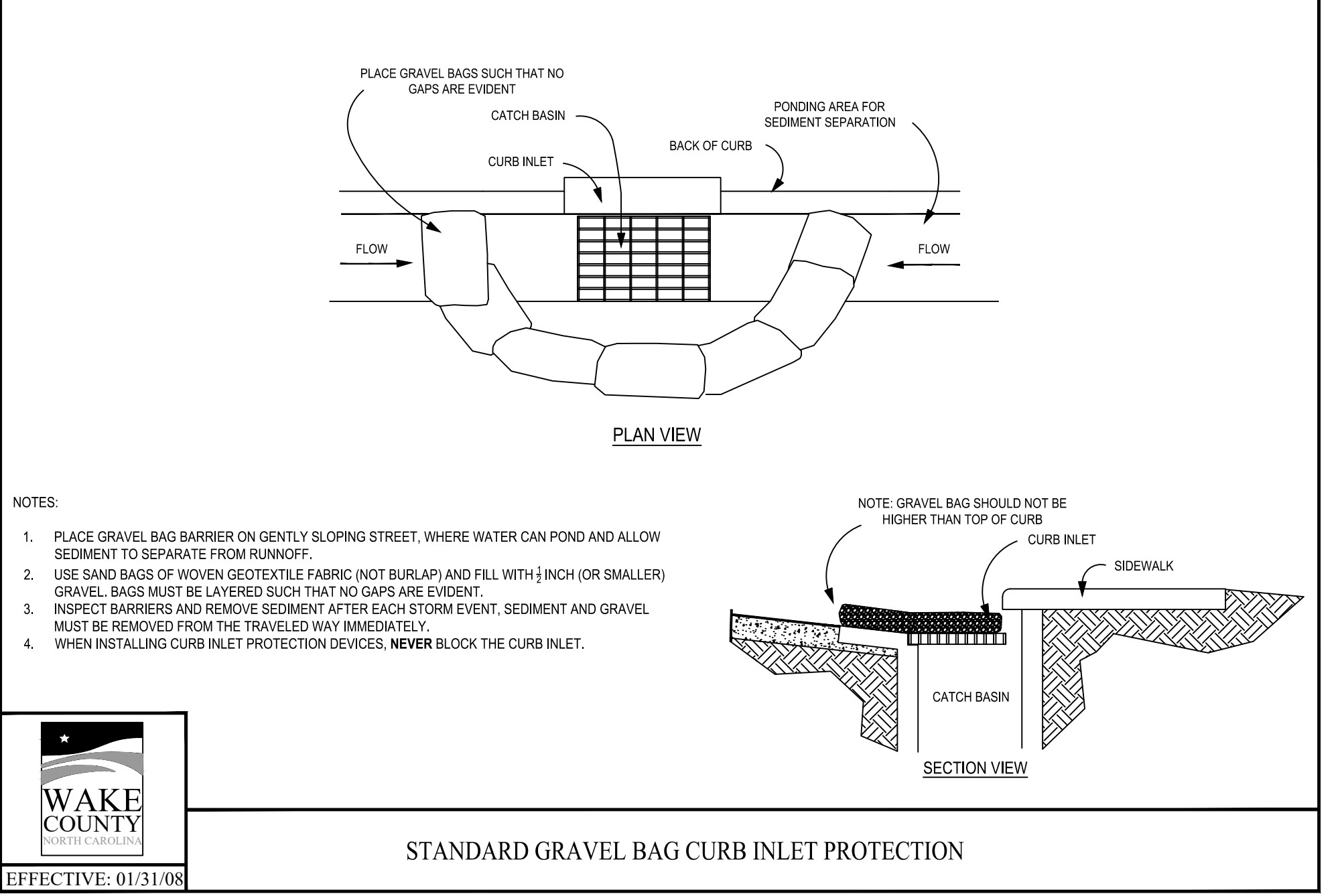
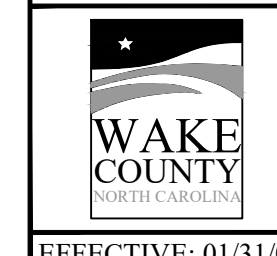
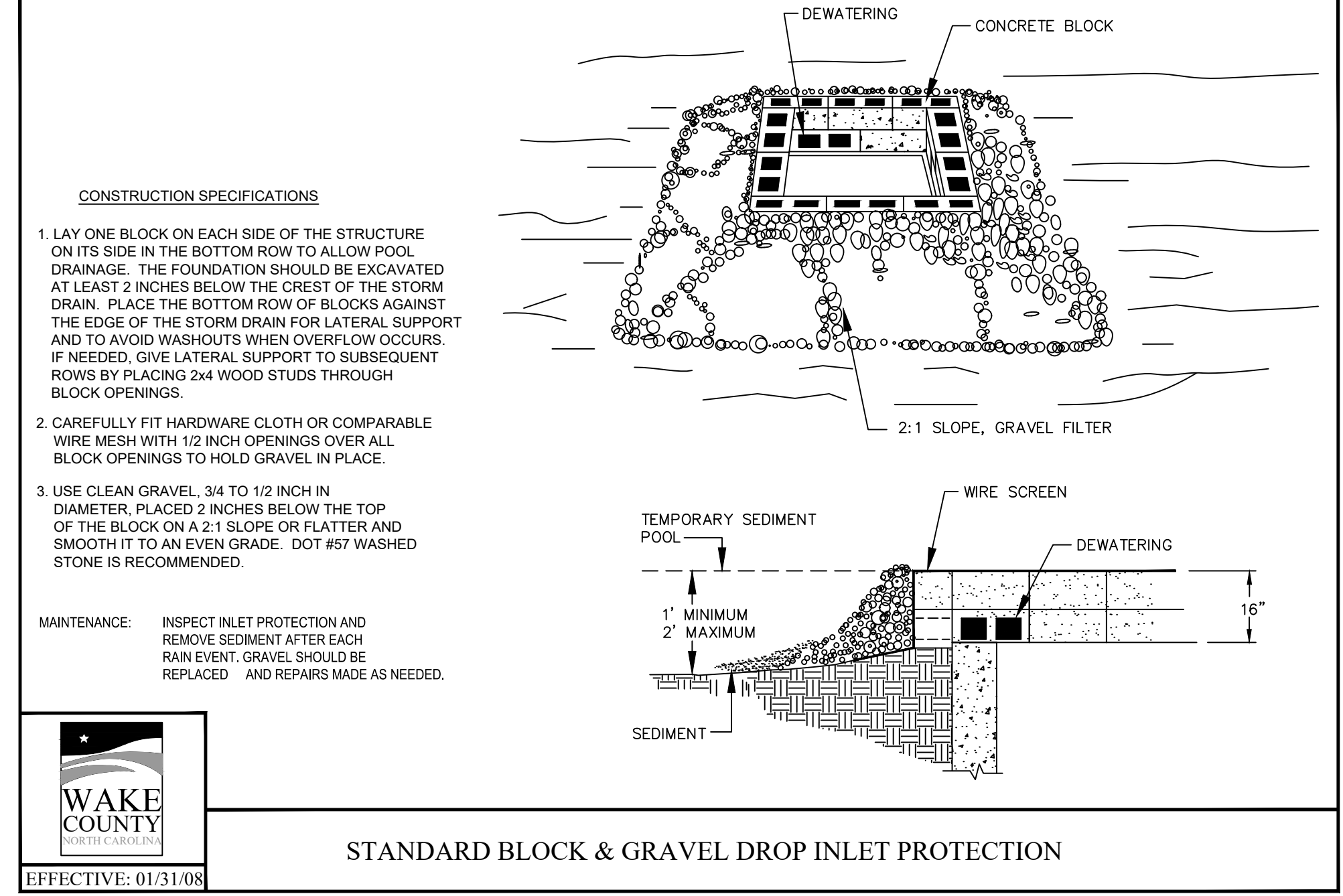
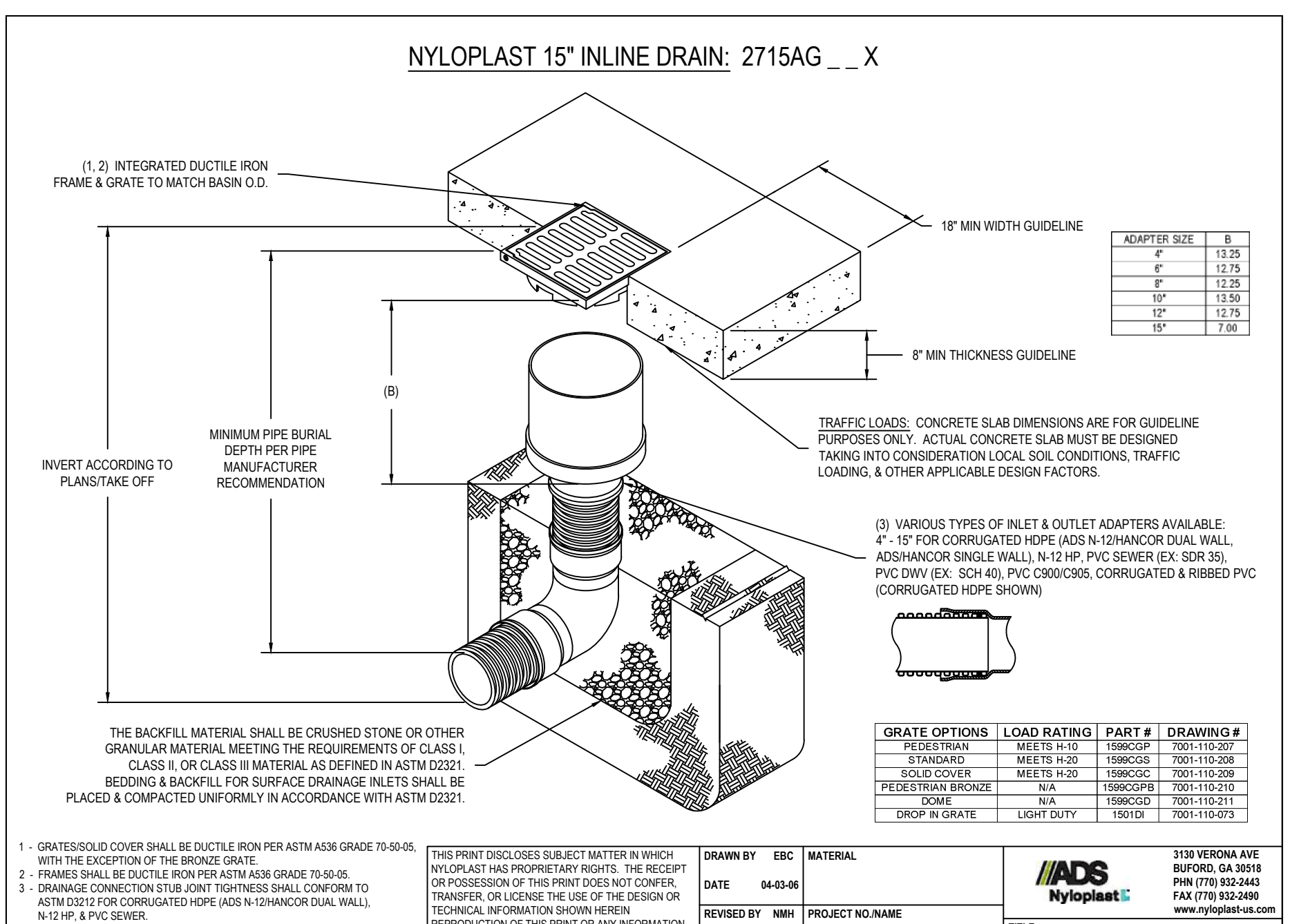
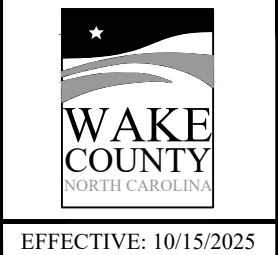
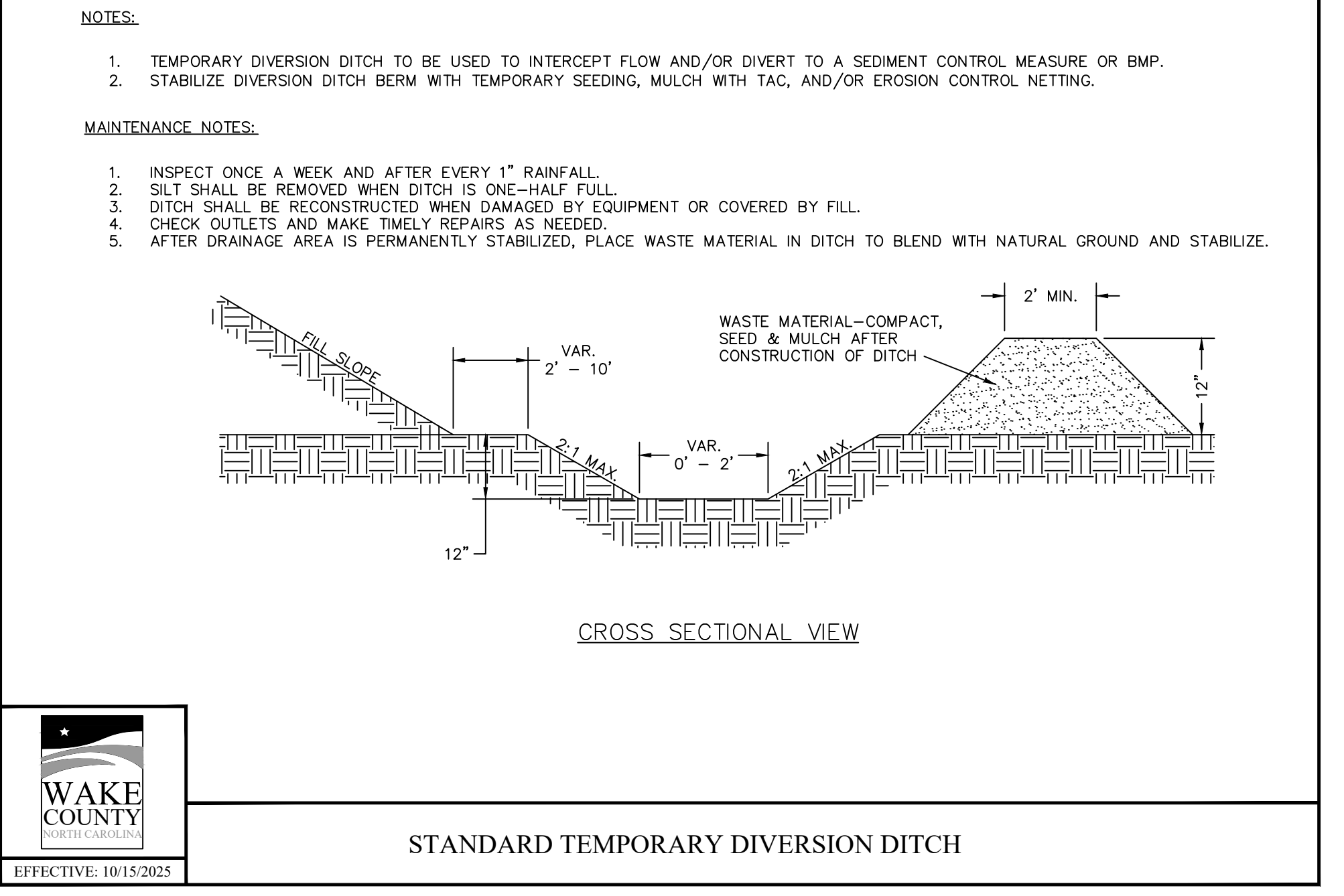
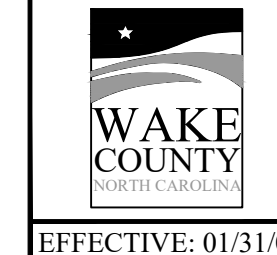
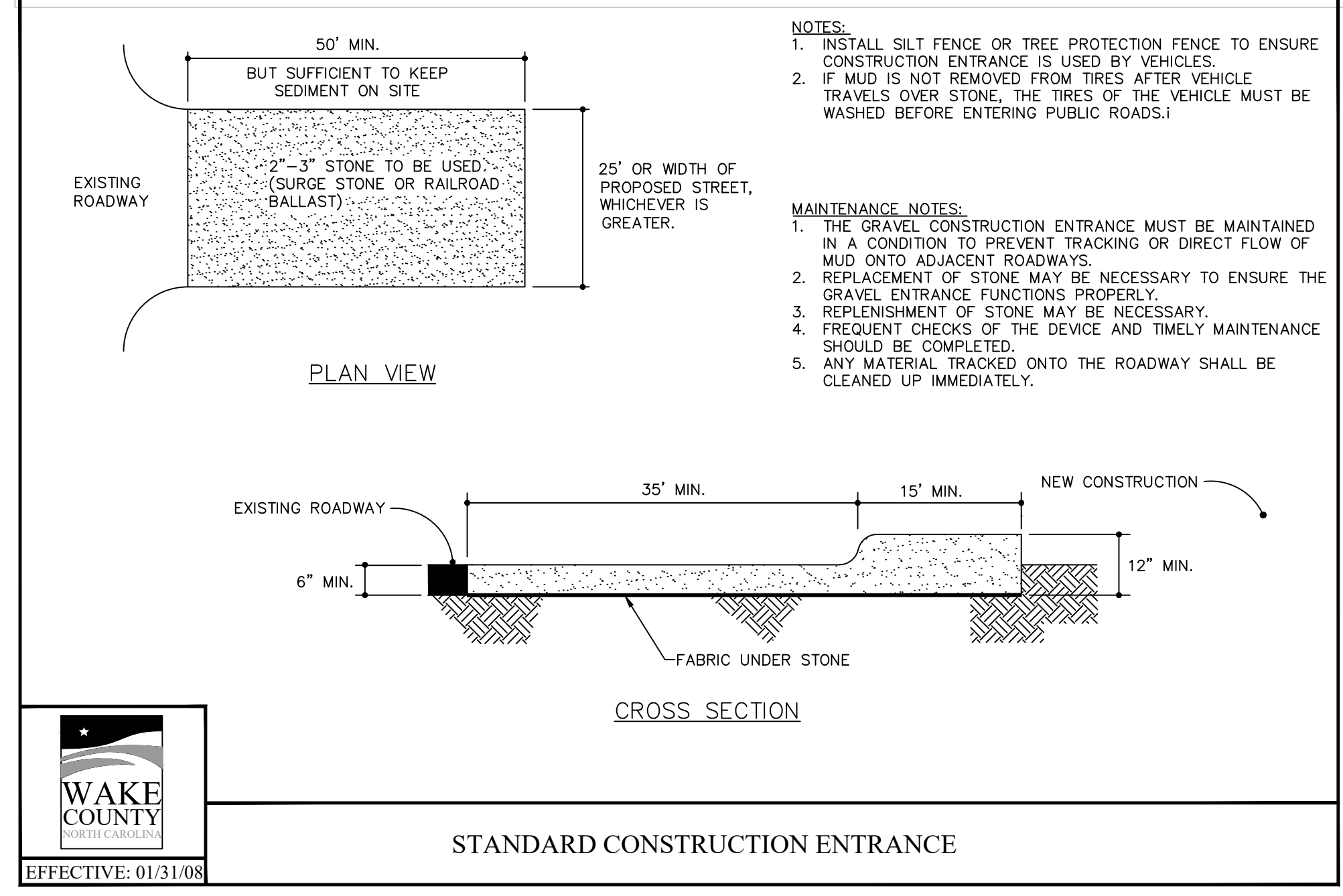
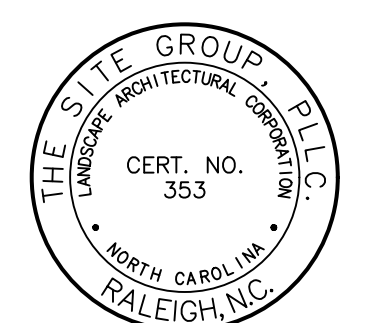
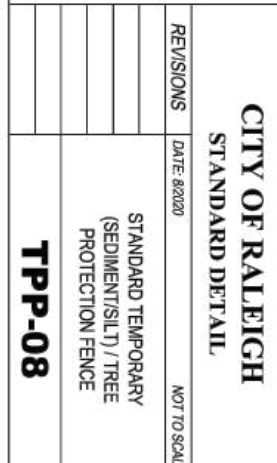
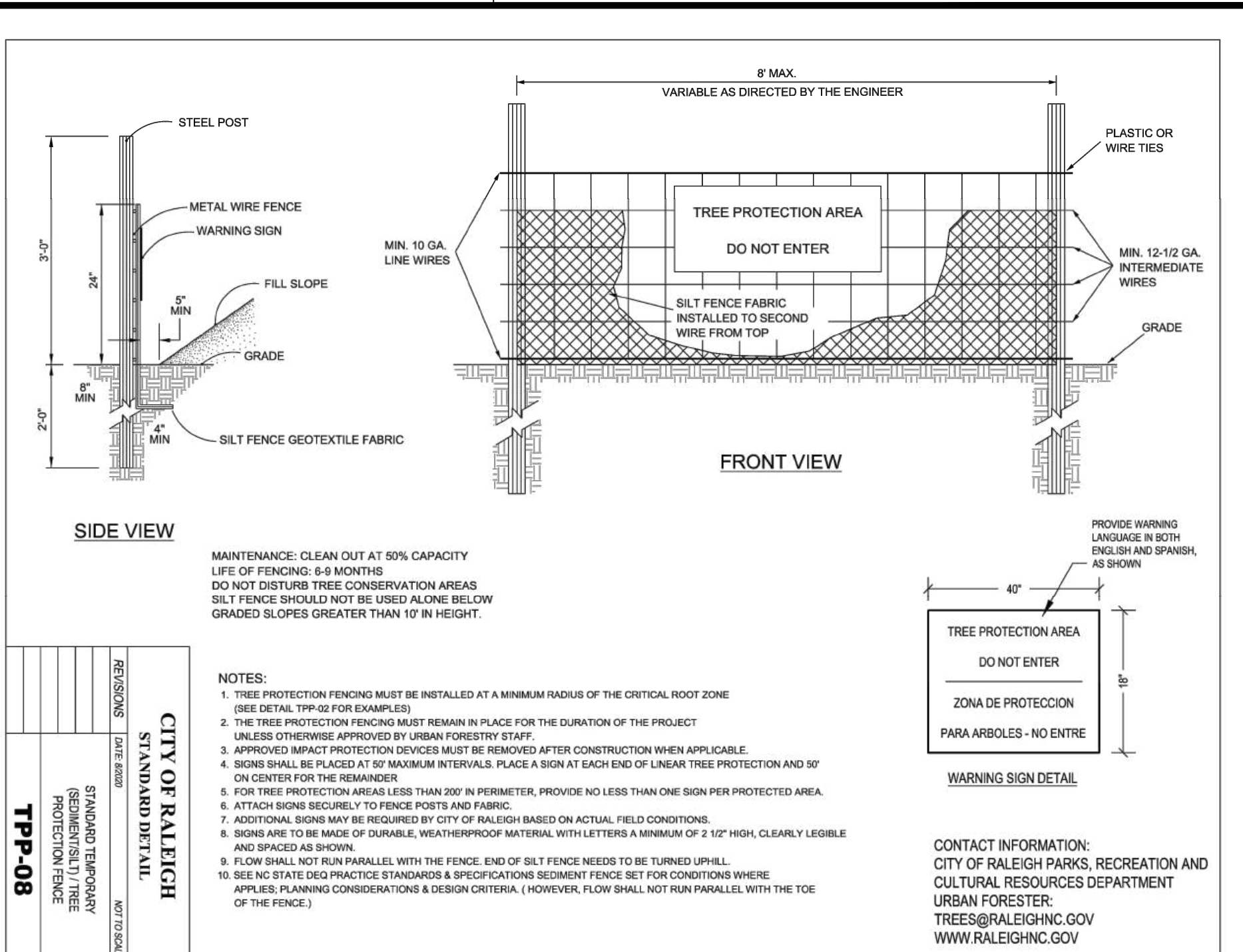
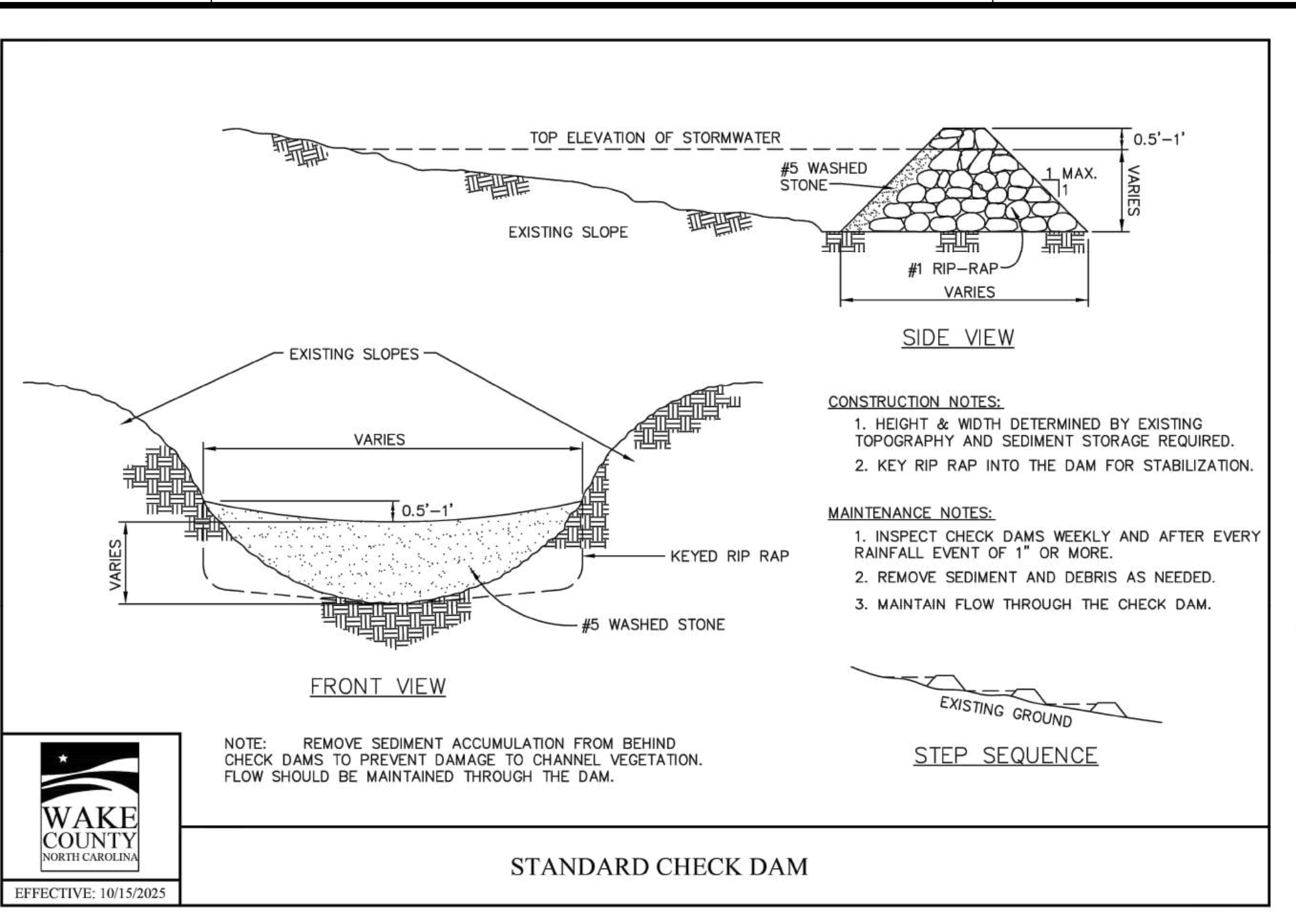
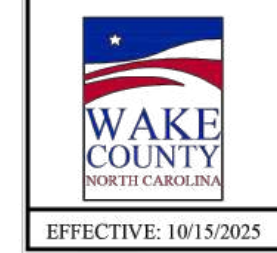
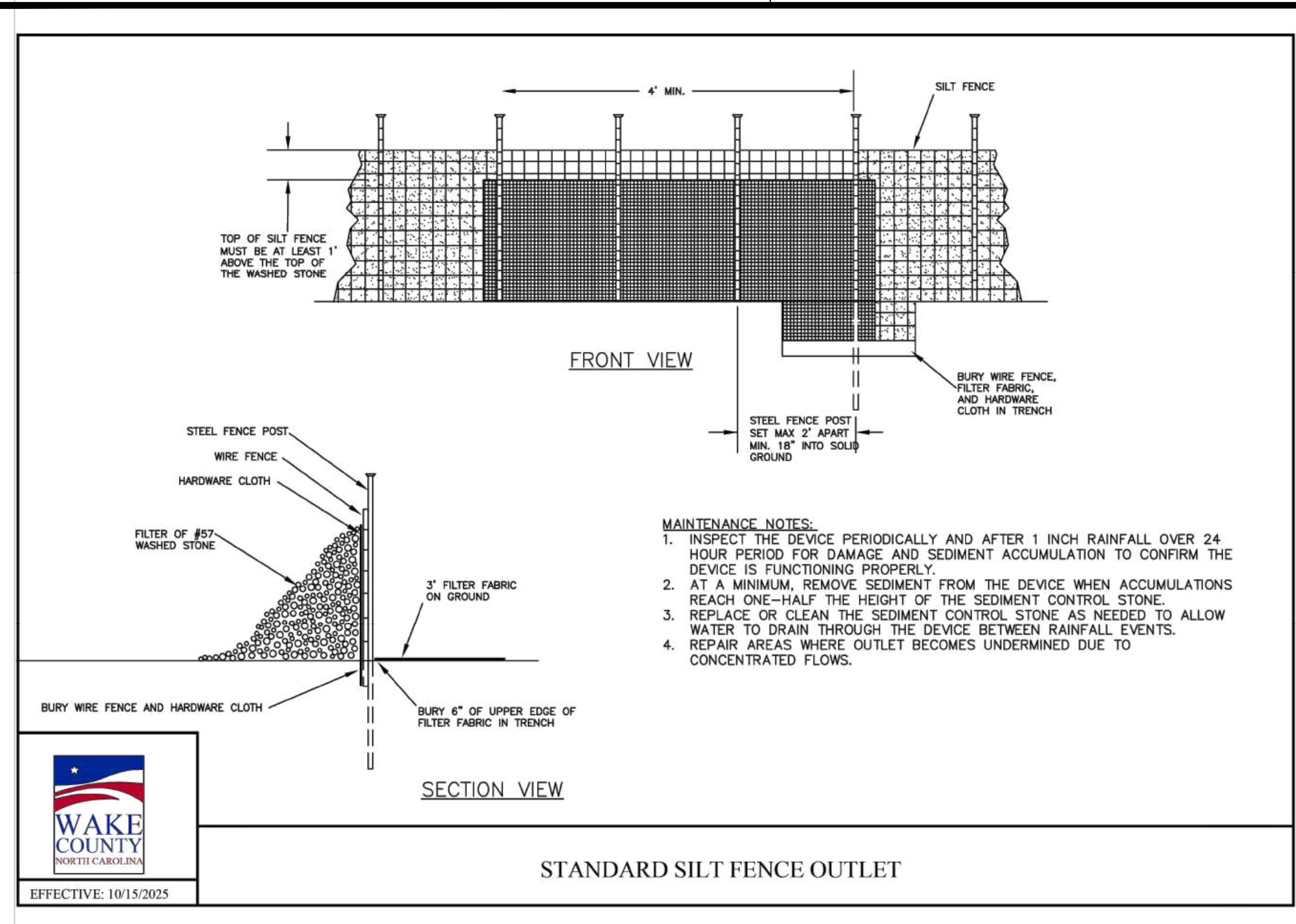
DATE:
30 JAN 2026

SITE DEVELOPMENT PLAN

SITE DETAILS

Job Code: **SSRCC**

Dwg No.
SITE 606



SITE DEVELOPMENT PLAN (SDP-26-XX) FOR:
**KIDDIE ACADEMY
LOT 4 AT WALLBROOK**
851 S MAIN ST.
ROLESVILLE, NORTH CAROLINA

Drawn By: LLF
Checked By: SRN

DATE:
30 JAN 2026

SITE DEVELOPMENT PLAN

SITE DETAILS

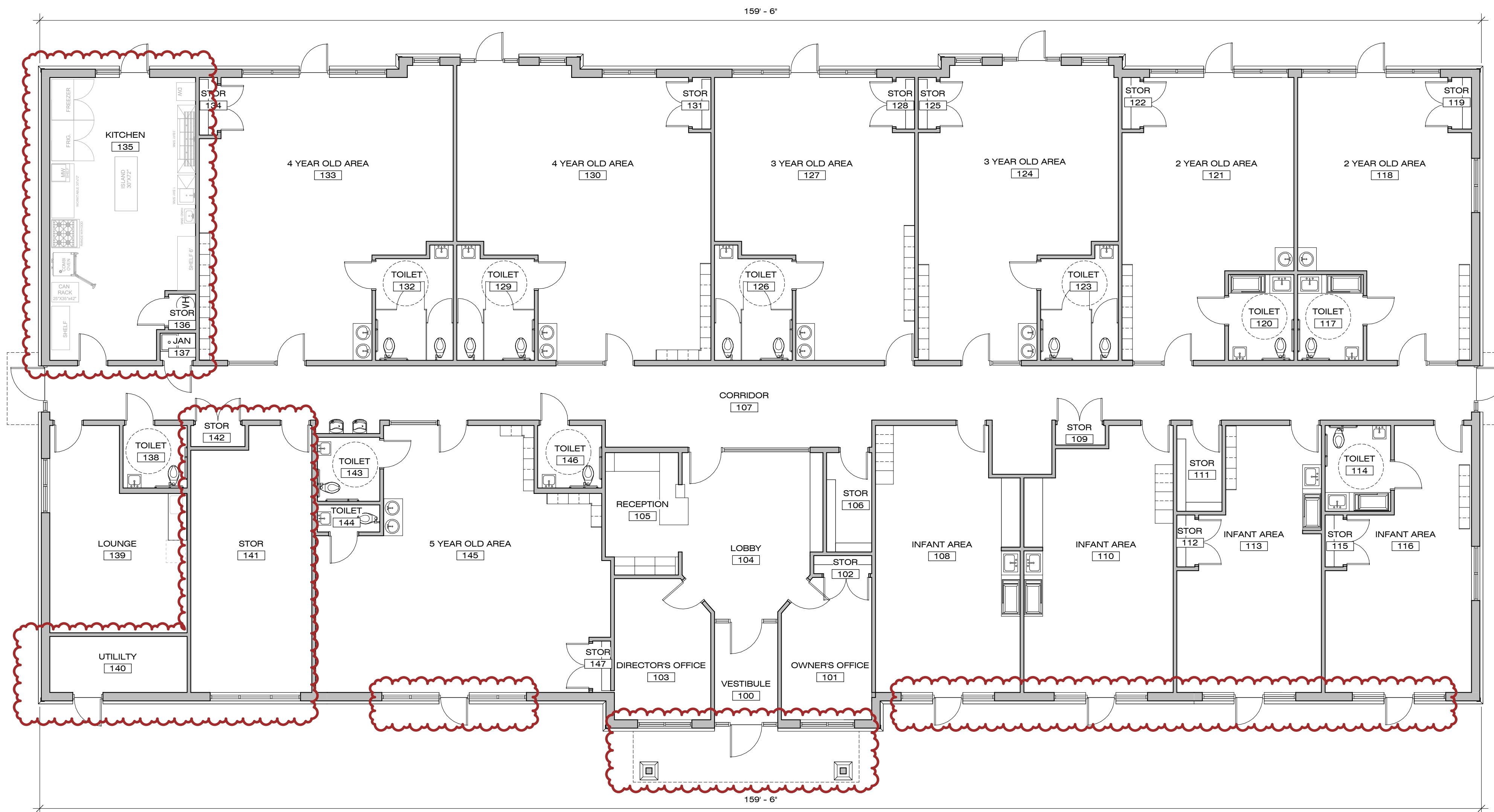
Job Code: SSRCC

Dwg No.
**SITE
607**



REDLINE

925 Tuckaseegee Rd.
Suite 110
Charlotte, NC 28208
704.377.2990
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1 CONSTRUCTION PLAN
SCALE: 1/8" = 1'-0"

KIDDIE ACADEMY @ WALLBROOK

851 S MAIN ST.
ROLLESVILLE, NC 27571

#	DESCRIPTION	DATE
1	0 SITE SUBMISSION	03.27.26
2		
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15		

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CONSTRUCTION PLAN

SCALE: 1/8" = 1'-0"

SHEET #

SK1.1

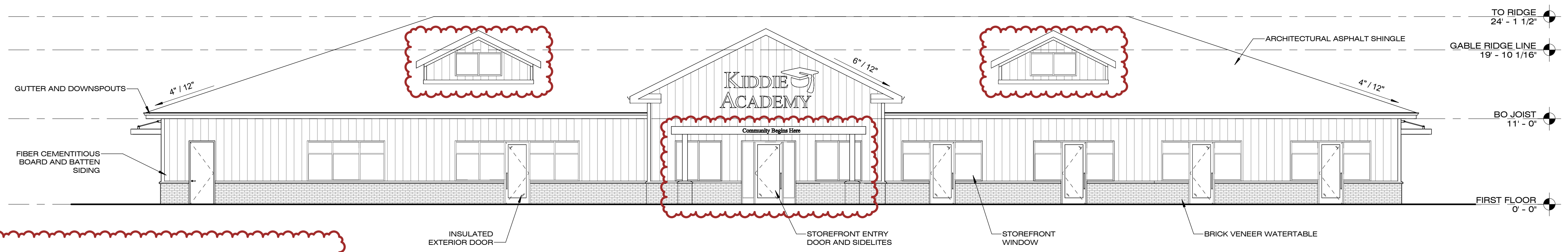


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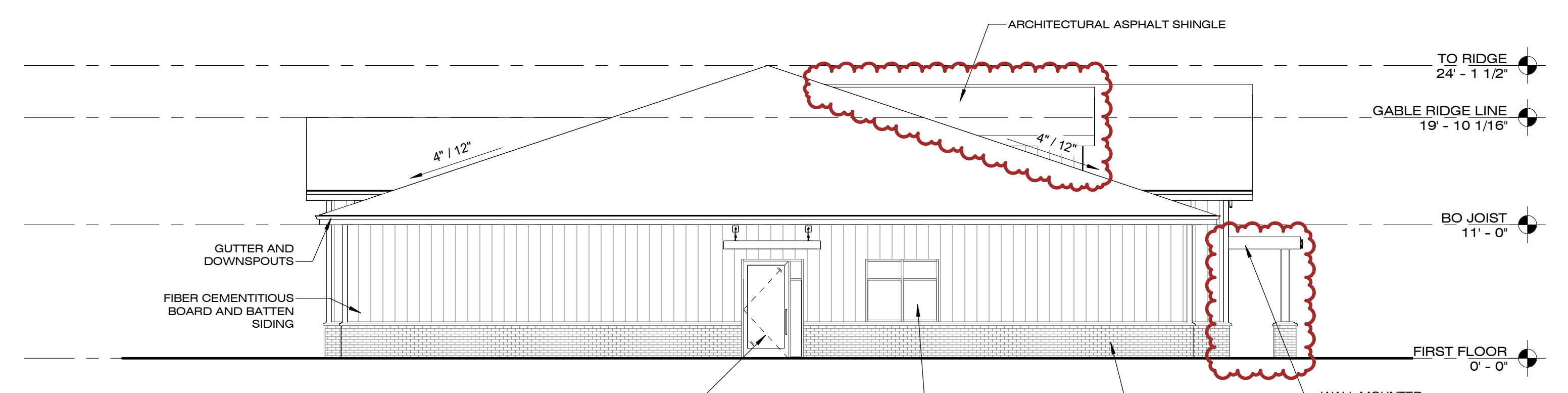
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Charlotte, NC 28208

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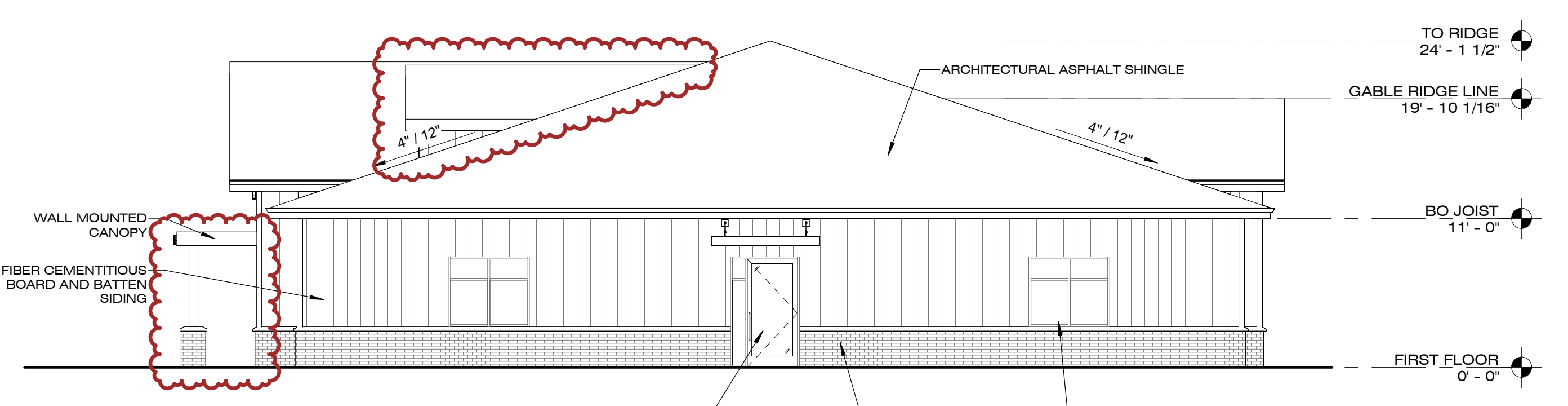
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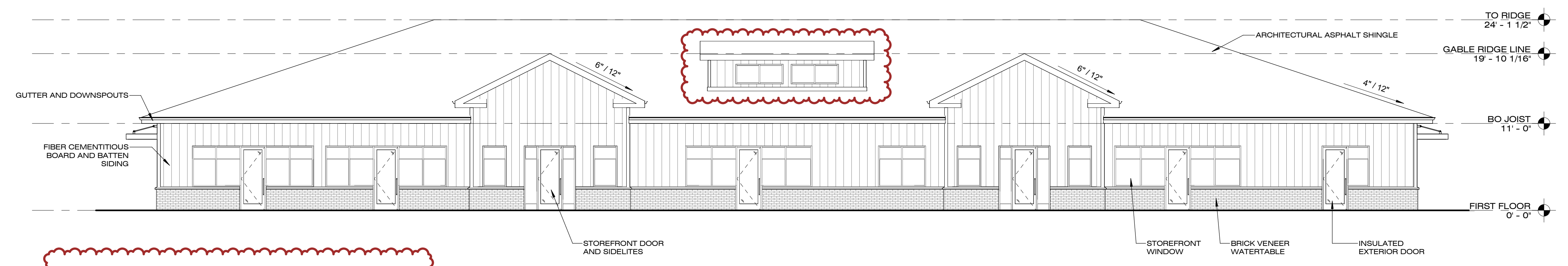
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SCALE: 1/8" = 1'-0"



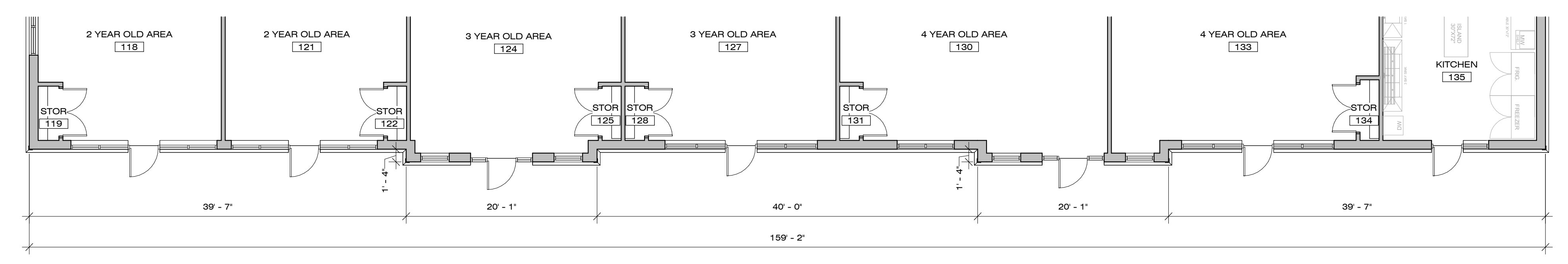
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SCALE: 1/8" = 1'-0"



3 EXTERIOR ELEVATION - EAST
SCALE: 1/8" = 1'-0"



4 EXTERIOR ELEVATION - NORTH
SCALE: 1/8" = 1'-0"



4A CONSTRUCTION PLAN
SCALE: 1/8" = 1'-0"

KIDDIE ACADEMY @ WALLBROOK

851 S MAIN ST.
ROLLESVILLE, NC 27571

#	DESCRIPTION	DATE
1	0 SITE SUBMISSION	03.27.26
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ARCH. PROJECT # RDU 25-167

EXTERIOR ELEVATIONS

SCALE: 1/8" = 1'-0"

SHEET # **SK1.2**