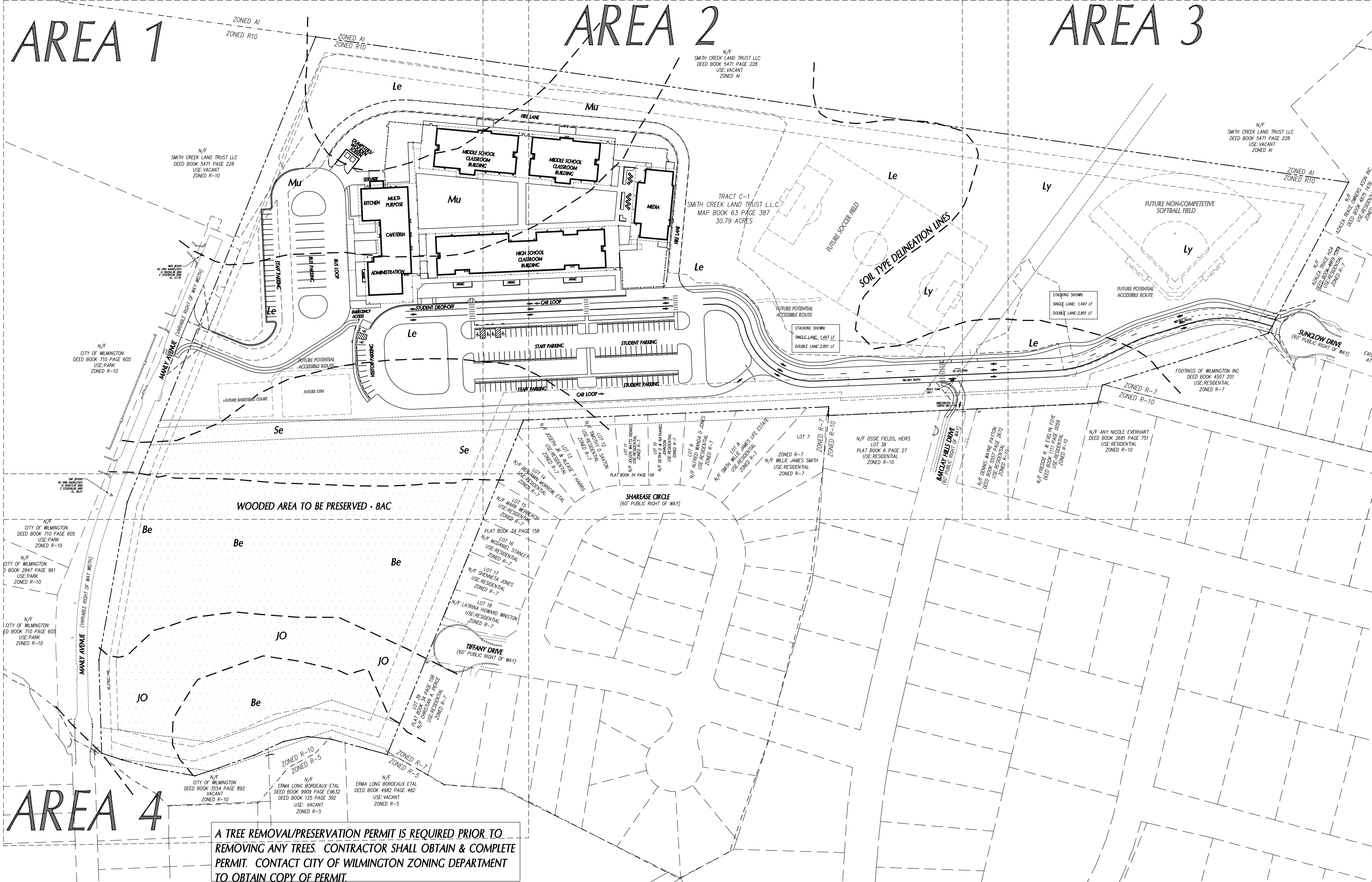


OVERALL PLAN FOR REFERENCE ONLY. PLEASE SEE ENLARGED 40 SCALE SHEETS.



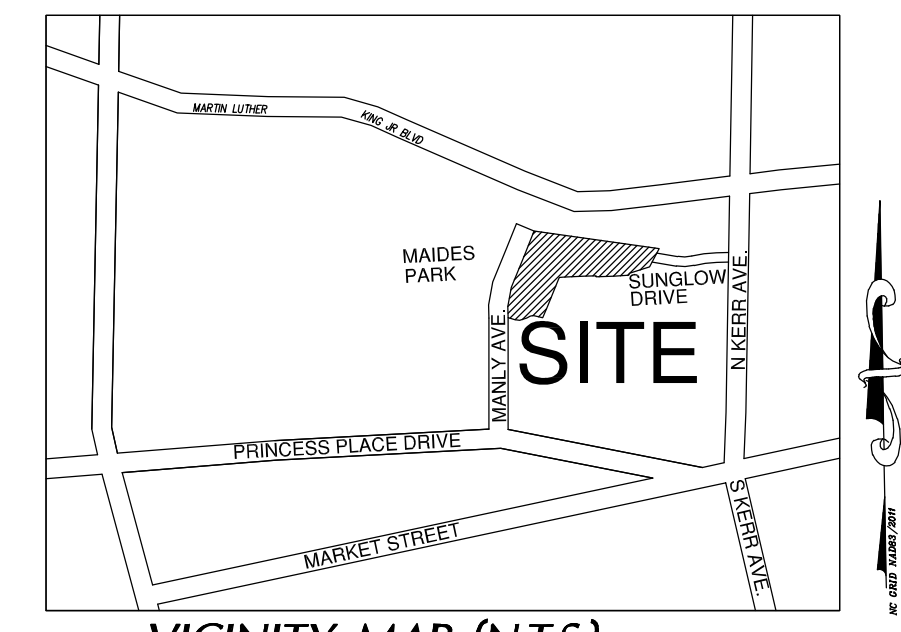
A TREE REMOVAL/PRESERVATION PERMIT IS REQUIRED PRIOR TO REMOVING ANY TREES. CONTRACTOR SHALL OBTAIN & COMPLETE PERMIT. CONTACT CITY OF WILMINGTON ZONING DEPARTMENT TO OBTAIN COPY OF PERMIT.

CITY OF WILMINGTON NOTES

- PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING SHALL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN TREE PROTECTION FENCING.
 - ANY TREES AND/OR AREAS DESIGNATED TO BE PROTECTED MUST BE PROPERLY BARRICADED WITH FENCING AND PROTECTED THROUGHOUT CONSTRUCTION TO INSURE THAT NO CLEARING, GRADING OR STAGING OF MATERIALS WILL OCCUR IN THOSE AREAS.
 - NO EQUIPMENT IS ALLOWED ON SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING IS INSTALLED AND APPROVED. PROTECTIVE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT, AND CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTION ON TREE PROTECTION METHODS.
 - ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
 - ONCE STREETS ARE OPEN TO TRAFFIC, CONTACT TRAFFIC ENGINEERING REGARDING THE INSTALLATION OF TRAFFIC AND STREET NAME SIGNS. PROPOSED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS.
 - TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND PAVEMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
 - CONTACT TRAFFIC ENGINEERING AT 910.341.7888 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN.
 - CALL TRAFFIC ENGINEERING AT 910.341.7888 FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY.
 - TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING PRIOR TO ACTUAL STRIPING.
 - ALL PARKING STALL MARKINGS AND LANE ARROWS WITH THE PARKING AREAS SHALL BE:
- ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER.
 - STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION.
 - TACTILE WARNING MATS WILL BE INSTALLED ON ALL WHEELCHAIR RAMPS.
 - A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET.
 - ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS & CURBING WILL BE REPLACED.
 - CONTACT TRAFFIC ENGINEERING AT 910.341.7888 TO DISCUSS STREET LIGHT OPTIONS.
 - WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) DETAILS AND SPECIFICATIONS.
 - PROJECT SHALL COMPLY WITH CFPUA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METERS CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL. CALL 910.343.3910 FOR INFORMATION.
 - IF THE CONTRACTOR DESIRES CFPUA WATER FOR CONSTRUCTION, HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX.
 - ANY BACKFLOW PREVENTION DEVICES REQUIRED BY CFPUA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USFCO/HR OR ASSE.
 - CONTRACTOR TO FIELD VERIFY EXISTING WATER AND SEWER SERVICE LOCATIONS, SIZES AND MATERIALS PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED OF ANY CONFLICTS.
- CONTRACTOR SHALL MAINTAIN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
 - UNDERGROUND FIRE LINE(S) MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC RIGHT-OF-WAY TO THE BUILDING. CONTACT WILMINGTON FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910.341.0696.
 - NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITHIN THE TRIANGULAR SIGHT DISTANCE.
 - CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1.800.632.4949 PRIOR TO DOING ANY DIGGING, CLEARING OR GRADING.
 - ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
 - A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION AND PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAT.
 - PERMITTING OF BUSINESS IDENTIFICATION SIGNAGE IS A SEPARATE PROCESS. NCDOT/CITY OF WILMINGTON WILL NOT ALLOW OBSTRUCTIONS WITHIN THE RIGHT OF WAY.

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SITE DATA

PROJECT: GLOW ACADEMY
 OWNER: GLOW NC, INC.
 DEVELOPER/APPLICANT: GLOW NC, INC.
 CONTACT: P.O. BOX 7621 WILMINGTON, NC 28406 910-338-5258

DESIGNER: CLH DESIGN, PA
 DESIGNER CONTACT: ZAK PIERCE
 REGENCY PARK
 400 REGENCY FOREST DR., STE. 120
 CARY, NC 27518
 PHONE: 919-319-6716
 FAX: 919-319-7516

PROJECT ADDRESS: 4100 SUNGLOW DRIVE WILMINGTON, NC 28405

TAX PIN: 3138-24-9548.000
 ZONING: R-10
 OVERLAY DISTRICT: NONE
 EXISTING USE: VACANT
 PROPOSED USE: PRIMARY/SECONDARY SCHOOL

TRACT AREA: 30.79 ACRES (1,341,212 SF)
 FLOODPLAIN: SITE IS NOT WITHIN A FLOODPLAIN (REF: FIRM 3720313800J - DATED APRIL 3, 2006)

THERE ARE NO WETLANDS ON THIS SITE.
 THERE ARE NO ENDANGERED SPECIES OR HABITATS ON THIS SITE.

BUILDING SETBACKS: REQUIRED PROVIDED
 FRONT 30' 166.95'
 REAR 50' 106.37'
 INTERIOR SIDE 50' 1,064.27'
 CORNER SIDE 50' 253.17'

TYPE OF CONSTRUCTION: TYPE IIB

PARKING REQUIREMENTS:
 PARKING CODE: 1 PER 5 STUDENTS, OR 1 PER 3 SEATS IN AUDITORIUMS AND OTHER PLACES OF ASSEMBLY OR FACILITIES AVAILABLE TO THE PUBLIC, WHICHEVER IS GREATER*
 NO. OF STUDENTS: 700 CAFETERIA 250 SEATS
 TOTAL SPACES REQ'D: 140* 84
 TOTAL SPACES PROVIDED: 140
 TOTAL H/C SPACES REQ'D: 5
 TOTAL H/C SPACES PROVIDED: 6 (W/ 2 VAN ACCESSIBLE)

*IF A PARKING GROUP DOES NOT CONTAIN A SPECIFIC MAXIMUM LIMIT ON THE NUMBER OF PARKING SPACES, THE MAXIMUM ALLOWABLE PARKING SPACES SHALL BE 150 PERCENT OF THE MINIMUM PARKING STANDARD FOR SUCH PARKING GROUPS.

TOTAL BICYCLE SPACES REQ'D: 10
 TOTAL BICYCLE SPACES PROVIDED: 10 (5 HOOPS @ 2 BIKES PER HOOP)

NUMBER OF PROPOSED BUILDINGS: 4
 NUMBER OF FLOORS ON PROPOSED BUILDING: 1
 GROSS FLOOR AREA: EXISTING: 0 SQ. FT.
 ADMIN/CAFETERIA: 12,670 SQ. FT.
 MIDDLE SCHOOL: 18,602 SQ. FT.
 MEDIA: 7,100 SQ. FT.
 HIGH SCHOOL: 18,159 SQ. FT.
 PROPOSED TOTAL: 57,531 SQ. FT.

BUILDING LOT COVERAGE-EXISTING: 0%
 BUILDING LOT COVERAGE-PROPOSED: 6.32%
 MAX. BUILDING HEIGHT ALLOWED: 35'-0"
 MAX. BUILDING HEIGHT PROPOSED: 27'-0"

EXISTING IMPERVIOUS (WITHIN PROJECT LIMITS): 0-AC (0-SF)
 PROPOSED IMPERVIOUS (WITHIN PROJECT LIMITS): 6.93-AC (338,897-SF)

CAMA LAND USE CLASSIFICATION:
 URBAN

CAMA AREAS OF CONCERN (AEC):
 THIS SITE IS NOT WITHIN A CAMA AEC.

THE SITE HAS NO LOCAL, STATE OR FEDERALLY RECOGNIZED HISTORIC STRUCTURES OR ARCHAEOLOGICAL RESOURCES.
 THE SITE HAS NO CEMETERIES, BURIAL SITES OR BURIAL GROUNDS.
 THE SITE HAS AN EXISTING ELECTRICAL EASEMENT AND SEWER EASEMENT ON SITE.

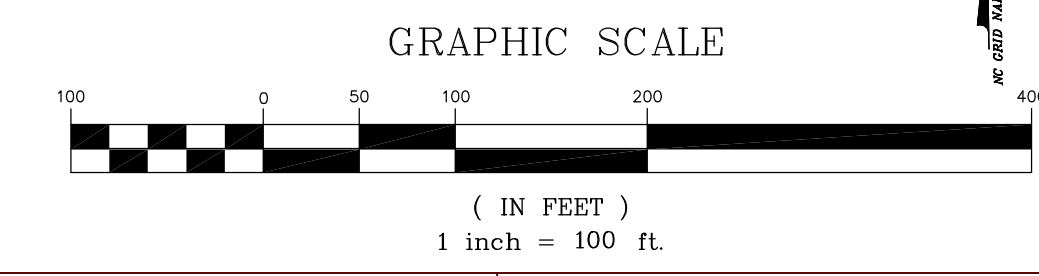
PROPOSED WATER AND SEWER CAPACITY:
 WATER: 8,400 GPD (700 STUDENTS X 12 GPD)
 SEWER: 8,400 GPD (700 STUDENTS X 12 GPD)

APPROVED CONSTRUCTION PLAN

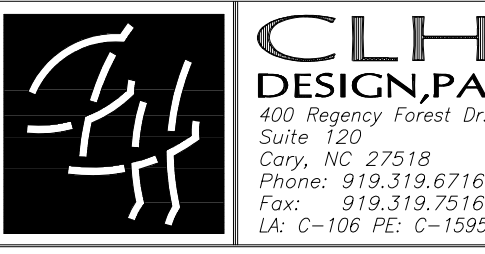
NAME	DATE
PLANNING	
TRAFFIC	
FIRE	

NOTE: A VARIANCE HAS BEEN REQUESTED FROM CITY OF WILMINGTON ENGINEERING REGARDING THE 500/800' RULE BY CHAPTER VI, C(4), PG. 7-15 TO 7-16 CoTWSSM.

APPROVED STORMWATER MANAGEMENT PLAN
 Date: _____ Permit # _____
 Signed: _____



NEW SCHOOL BUILDING



227 WEST TRADE STREET SUITE 700
 CHARLOTTE, NORTH CAROLINA 28202
 TEL. 704.333.6686 FAX 704.333.2926
 WWW.LS3P.COM



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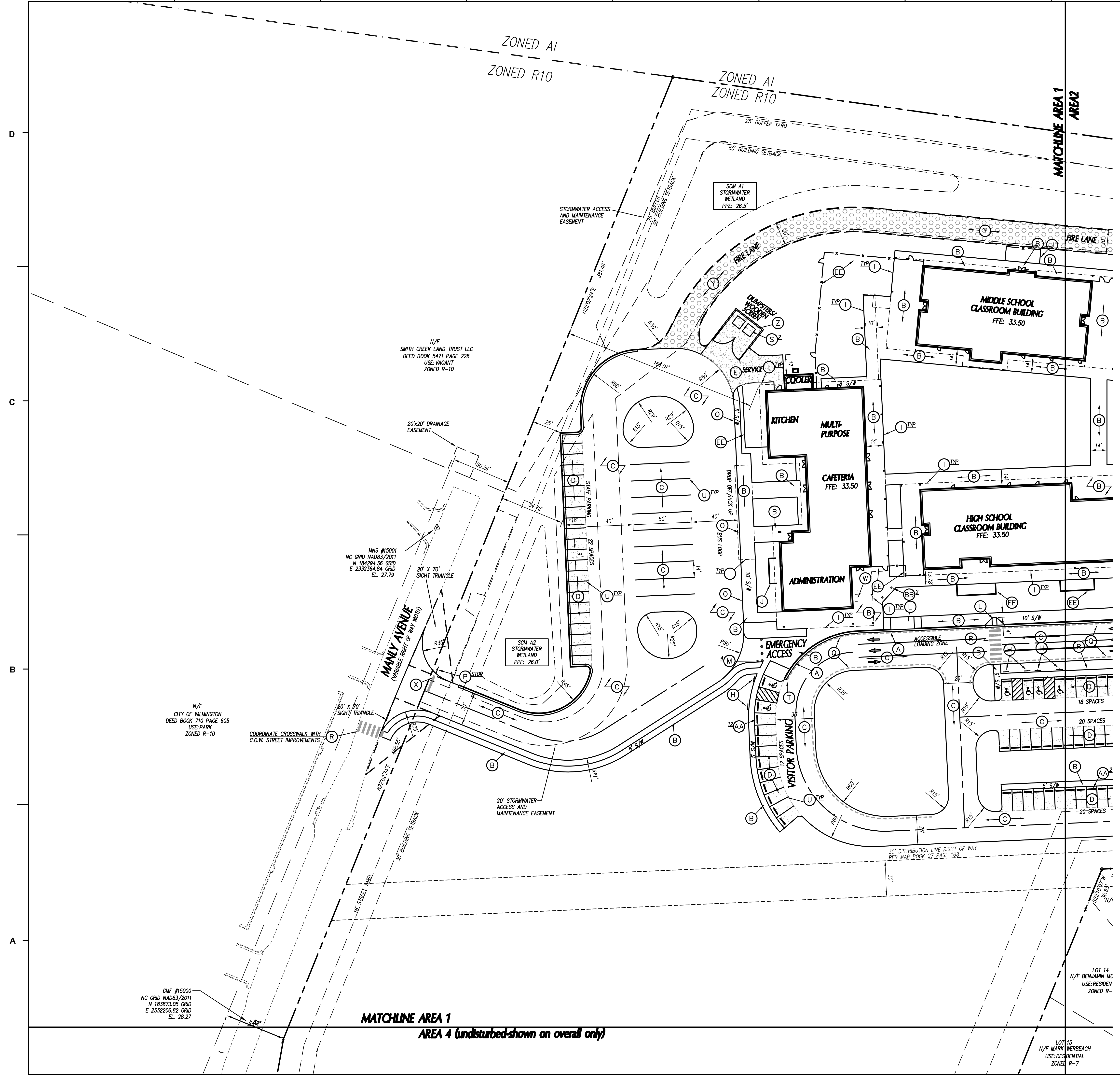
No.	Description	Date
A	80% CD/GMP SET	04/09/2018
B	PERMIT SET	04/24/2018
C	BIDDING CLARIFICATIONS	05/04/2018
D	EARLY GRADING	06/01/2018

PROJECT: 7201-169350 / (CLH:17-140)
 DATE: JUNE 26, 2018
 DRAWN BY: ST, GSH, YLA, DL
 CHECKED BY: CLH, GSH, ZRP

OVERALL SITE PLAN

C-100

PERMIT SET



- ### KEY NOTES
- (A) 24" CONCRETE CURB & GUTTER, SEE DETAIL SHEET C702.
 - (B) CONCRETE SIDEWALK, SEE DETAIL SHEET C702.
 - (C) HEAVY DUTY ASPHALT PAVEMENT, SEE DETAIL SHEET C702.
 - (D) LIGHT DUTY ASPHALT PAVEMENT, SEE DETAIL SHEET C702.
 - (E) CONCRETE PAVEMENT, SEE DETAIL SHEET C702.
 - (F) NOT USED
 - (G) SEAT WALL, SEE DETAIL SHEET C703.
 - (H) ACCESSIBLE PARKING SIGNAGE, SEE DETAIL SHEET C715.
 - (I) SEE ARCHITECTURAL PLANS FOR SCREEN WALLS, CANOPY, SHED, ETC.
 - (J) 4-FT TALL BLACK VINYL COATED CHAIN-LINK FENCE/GATE, SEE DETAIL SHEET C704.
 - (K) PIPE GATE, SEE DETAIL SHEET.
 - (L) ACCESSIBLE CURB RAMP, SEE DETAIL SHEET C703.
 - (M) COLLAPSIBLE STEEL BOLLARD, SEE DETAIL SHEET C704.
 - (N) DIRECTIONAL ARROW, SEE TRAFFIC CONTROL NOTES THIS SHEET.
 - (O) CONCRETE SIDEWALK/PAVEMENT FLUSH W/ ASPHALT PAVEMENT.
 - (P) TRAFFIC CONTROL SIGNAGE, SEE TRAFFIC CONTROL NOTES THIS SHEET.
 - (Q) FIRE LANE STRIPING, SEE TRAFFIC CONTROL NOTES THIS SHEET.
 - (R) HI-VIS CROSSWALK, SEE DETAIL SHEET C702.
 - (S) DUMPSTERS, PROVIDED BY OWNER
 - (T) STANDARD METHOD OF ENDING CURB, SEE DETAIL SHEET C702.
 - (U) PARKING SPACE MARKINGS, SEE TRAFFIC CONTROL NOTES THIS SHEET.
 - (V) NO PARKING - FIRE LANE SIGNAGE, SEE DETAIL SHEET C703.
 - (W) BIKE RACKS, SEE DETAIL SHEET C702.
 - (X) STOP BAR, SEE TRAFFIC CONTROL NOTES THIS SHEET.
 - (Y) GEO-GRID REINFORCED GRASS SURFACE PAVING, SEE DETAIL SHEET C703.
 - (Z) DUMPSTER ENCLOSURE, SEE DETAILS SHEET C704.
 - (AA) CONCRETE WHEELSTOP, SEE DETAIL SHEET C702.
 - (BB) FLAG POLE, SEE DETAIL SHEET C703.
 - (CC) DRIVEWAY TO BE CONSTRUCTED PER CITY OF WILMINGTON DETAIL ON DETAIL SHEET C704.
 - (DD) 6' WIDE ASPHALT SIDEWALK
 - (EE) 5' TALL WOOD SCREEN FENCE (GATE LOCATIONS AS SHOWN -(-))
 - (FF) WARNING DOMES

- ### GENERAL NOTES
1. ALL DIMENSIONS SHOWN ARE FACE OF CURB AND FACE OF BUILDING WALL, UNLESS OTHERWISE SHOWN.
 2. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS SHOWN AND CONTACT THE ARCHITECT IF ANY DISCREPANCIES OCCUR.
 3. CONSTRUCTION STAKE OUT IS THE RESPONSIBILITY OF THE CONTRACTOR.
 4. ALL SIGNS AND PAVEMENT MARKINGS ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
 5. PAVEMENT MARKINGS IN PUBLIC RIGHT-OF-WAYS AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY OF WILMINGTON AND/OR NCDOT STANDARDS.
 6. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF WILMINGTON STANDARDS AND SPECIFICATIONS.
 7. REPLACEMENT OF ANY BROKEN OR DAMAGED CONCRETE SIDEWALK PANELS OR CURBING THAT OCCURS DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
 8. ALL PARKING STALL RADII SHALL BE 4' UNLESS OTHERWISE NOTED.
 9. PIPE GATE AT THE CARPOOL/FIRE LANE SHALL MEET THE CITY OF WILMINGTON FIRE SERVICES GATE REQUIREMENTS FOR LOCKING ARRANGEMENTS.
 10. NO PORTION OF THIS PROPERTY IS LOCATED IN THE 100 YEAR FLOOD ZONE PER FIRM PANEL 3720315800 J DATED APR. 3, 2006.

- ### TRAFFIC CONTROL NOTES
1. ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.

SIGN	MUTCD STD.	SIZE
STOP	R1-1	30"x30"
ONE WAY	R6-1	36"x12"
DO NOT ENTER (DNE)	R5-1	30"x30"
SCHOOL CROSSING	S1-1	36"x36"
NO LEFT TURN	R3-2	24"x24"
NO OUTLET	W4-2a	30"x30"
STATE LAW STOP FOR PEDESTRIAN	R1-6a	12"x36"
 2. ALL SIGNS SHALL BE MOUNTED WITH 7-FT MIN. VERTICAL CLEARANCE TO THE BOTTOM OF THE SIGN ON 2-LB. GALV. STEEL U-CHANNEL POST SET IN 3-FT DEEP x 12-IN DIA. CONCRETE FOOTING.
 3. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MUTCD AND NCDOT STANDARDS AND THE PROJECT SPECIFICATIONS.

MARKING	NCDOT STD.	SIZE	COLOR
PARKING SPACE	1205.08	4-IN	WHT.
DIRECTIONAL ARROWS	-	STD.	WHT.
NO PARKING - FIRE LANE *	-	4-IN	WHT.
SOLID	-	4-IN	WHT.
CROSSWALK	1205.07(HI-VIS)	24-IN	WHT.
STOP BAR	-	24-IN	WHT.

* NO PARKING - FIRE LANE MARKING SHALL CONSIST OF A 4" SOLID WHITE STRIPE AND 8" HIGH WHITE TEXT "NO PARKING - FIRE LANE" AT 50' INTERVALS. PROVIDE IN ALL PAVED AREAS AS DESIGNATED BY FIRE MARSHALL. (BID SHALL INCLUDE STRIPING AND SIGNAGE AS SHOWN OF PLANS PLUS AN EXTRA 500 LF OF NO PARKING FIRE LANE STRIPING AND 5 NO PARKING FIRE LANE SIGNS.) ALL PAVEMENT MARKINGS SHALL BE ALKID-RESIN TYPE PAINT PER CITY OF WILMINGTON STANDARDS.
 4. ALL SIGNAGE SHALL BE FIELD STAKED AND THE LOCATIONS APPROVED BY CLH DESIGN PRIOR TO SIGN INSTALLATION.
 5. CENTER ALL DIRECTIONAL ARROWS WITHIN TRAVEL LANE.
 6. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.

NOTE: A VARIANCE HAS BEEN REQUESTED FROM CITY OF WILMINGTON ENGINEERING REGARDING THE 500'/800' RULE IN CHAPTER VI, (4), PG. 7-15 TO 7-16 CONWISSM.

APPROVED CONSTRUCTION PLAN

NAME	DATE
PLANNING	
TRAFFIC	
FIRE	

CITY OF WILMINGTON
NORTH CAROLINA

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

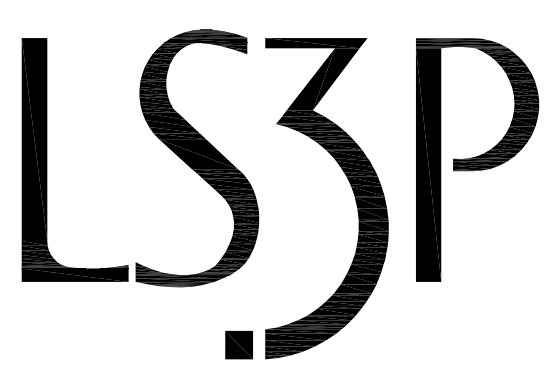
Date: _____ Permit # _____

Signed: _____

GRAPHIC SCALE



NEW SCHOOL BUILDING



227 WEST TRADE STREET SUITE 700
CHARLOTTE, NORTH CAROLINA 28202
TEL. 704.333.6686 FAX 704.333.2926
WWW.LS3P.COM



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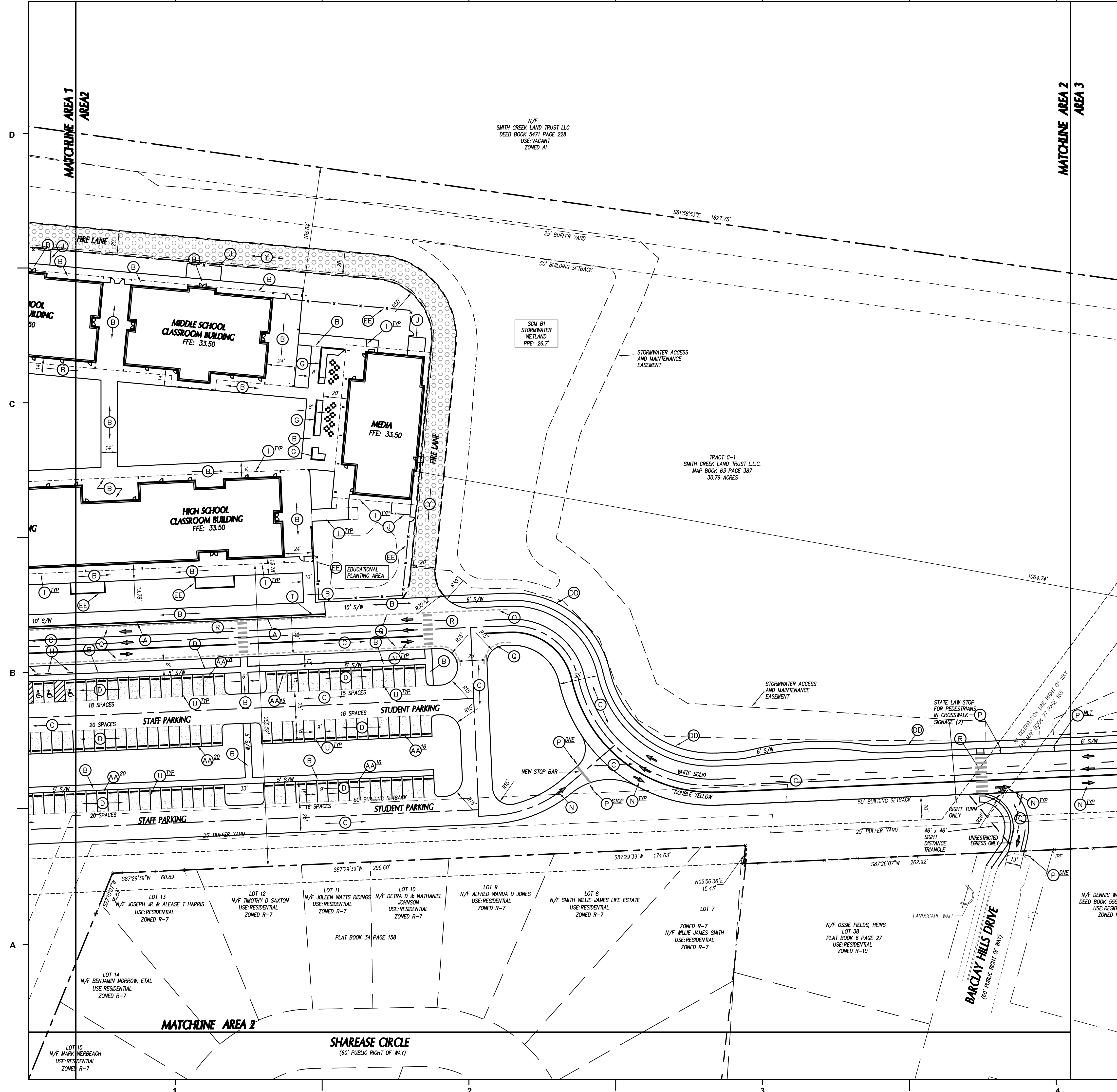
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C	BIDDING CLARIFICATIONS	05/04/2018
D	EARLY GRADING	06/01/2018

PROJECT: 7201-169350/ (CLH:17-140)
DATE: JUNE 26, 2018
DRAWN BY: ST, GSH, YLA, DL
CHECKED BY: CLH, GSH, ZRP

STAKING PLAN - AREA 1

C-101

PERMIT SET



- ### KEY NOTES
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 - (H) ACCESSIBLE PARKING SIGNAGE, SEE DETAIL SHEET C715.
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 - (J) 4-FT TALL BLACK VINYL COATED CHAIN-LINK FENCE/GATE, SEE DETAIL SHEET C704.
 - (K) PIPE GATE, SEE DETAIL SHEET.
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 - REPLACEMENT OF ANY BROKEN OR DAMAGED CONCRETE SIDEWALK PANELS OR CURBING THAT OCCURS DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
 - ALL PARKING STALL RADII SHALL BE 4' UNLESS OTHERWISE NOTED.
 - PIPE GATE AT THE CARPOOL/FIRE LANE SHALL MEET THE CITY OF WILMINGTON FIRE SERVICES GATE REQUIREMENTS FOR LOCKING ARRANGEMENTS.
 - NO PORTION OF THIS PROPERTY IS LOCATED IN THE 100 YEAR FLOOD ZONE PER FIRM PANEL 3720315800 J DATED APR. 3, 2006.

- ### TRAFFIC CONTROL NOTES
- ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.

SIGN	MUTCD STD.	SIZE
STOP	R1-1	30"x30"
ONE WAY	R6-1	36"x12"
DO NOT ENTER (DNE)	R5-1	30"x30"
SCHOOL CROSSING	S1-1	36"x36"
NO LEFT TURN	R3-2	24"x24"
NO OUTLET	W4-2a	30"x30"
STATE LAW STOP FOR PEDESTRIAN	R1-6a	12"x36"
 - ALL SIGNS SHALL BE MOUNTED WITH 7-FIT MIN. VERTICAL CLEARANCE TO THE BOTTOM OF THE SIGN ON 2-LB. GALV. STEEL U-CHANNEL POST SET IN 3-FIT DEEP x 12-IN DIA. CONCRETE FOOTING.
 - ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MUTCD AND NCDOT STANDARDS AND THE PROJECT SPECIFICATIONS.

MARKING	NCDOT STD.	SIZE	COLOR
PARKING SPACE	1205.08	4-IN	WHT.
DIRECTIONAL ARROWS	STD.	4-IN	WHT.
NO PARKING - FIRE LANE *	-	4-IN	WHT.
SOLID	-	4-IN	WHT.
CROSSWALK	1205.07(HI-VIS)	24-IN	WHT.
STOP BAR	-	24-IN	WHT.

* NO PARKING - FIRE LANE MARKING SHALL CONSIST OF A 4" SOLID WHITE STRIPE AND 8" HIGH WHITE TEXT "NO PARKING - FIRE LANE" AT 50' INTERVALS. PROVIDE IN ALL PAVED AREAS AS DESIGNATED BY FIRE MARSHALL. (BID SHALL INCLUDE STRIPING AND SIGNAGE AS SHOWN OF PLANS PLUS AN EXTRA 500 LF OF NO PARKING FIRE LANE STRIPING AND 5 NO PARKING FIRE LANE SIGNS.) ALL PAVEMENT MARKINGS SHALL BE ALK/ID-RESIN TYPE PAINT PER CITY OF WILMINGTON STANDARDS.
 - ALL SIGNAGE SHALL BE FIELD STAKED AND THE LOCATIONS APPROVED BY CLH DESIGN PRIOR TO SIGN INSTALLATION.
 - CENTER ALL DIRECTIONAL ARROWS WITHIN TRAVEL LANE.
 - ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.

NOTE: A VARIANCE HAS BEEN REQUESTED FROM CITY OF WILMINGTON ENGINEERING REGARDING THE 500'/800' RULE IN CHAPTER 10, §(4), PG. 7-15 TO 7-16 CONTINUED.

NAME	DATE
PLANNING	
TRAFFIC	
FIRE	

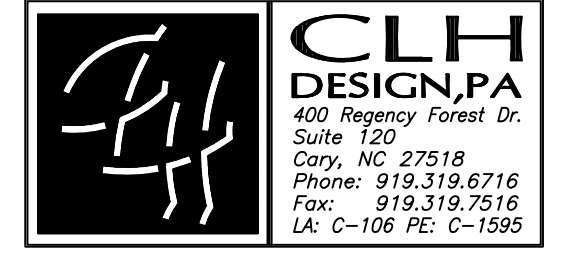
APPROVED CONSTRUCTION PLAN

WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____

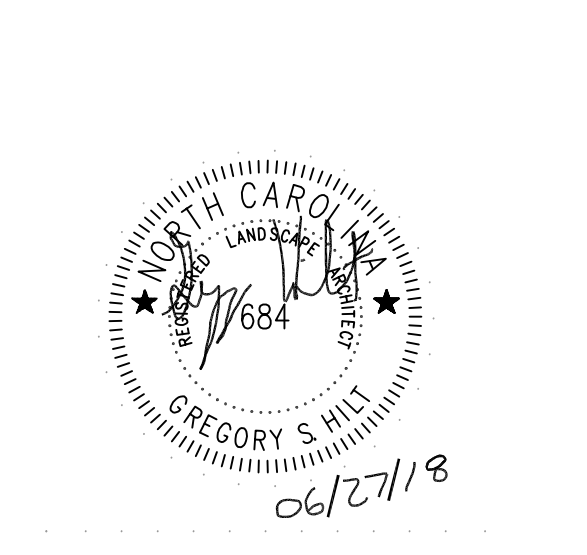
GRAPHIC SCALE
0 20 40 60 80 100
(IN FEET)
1 inch = 40 ft.



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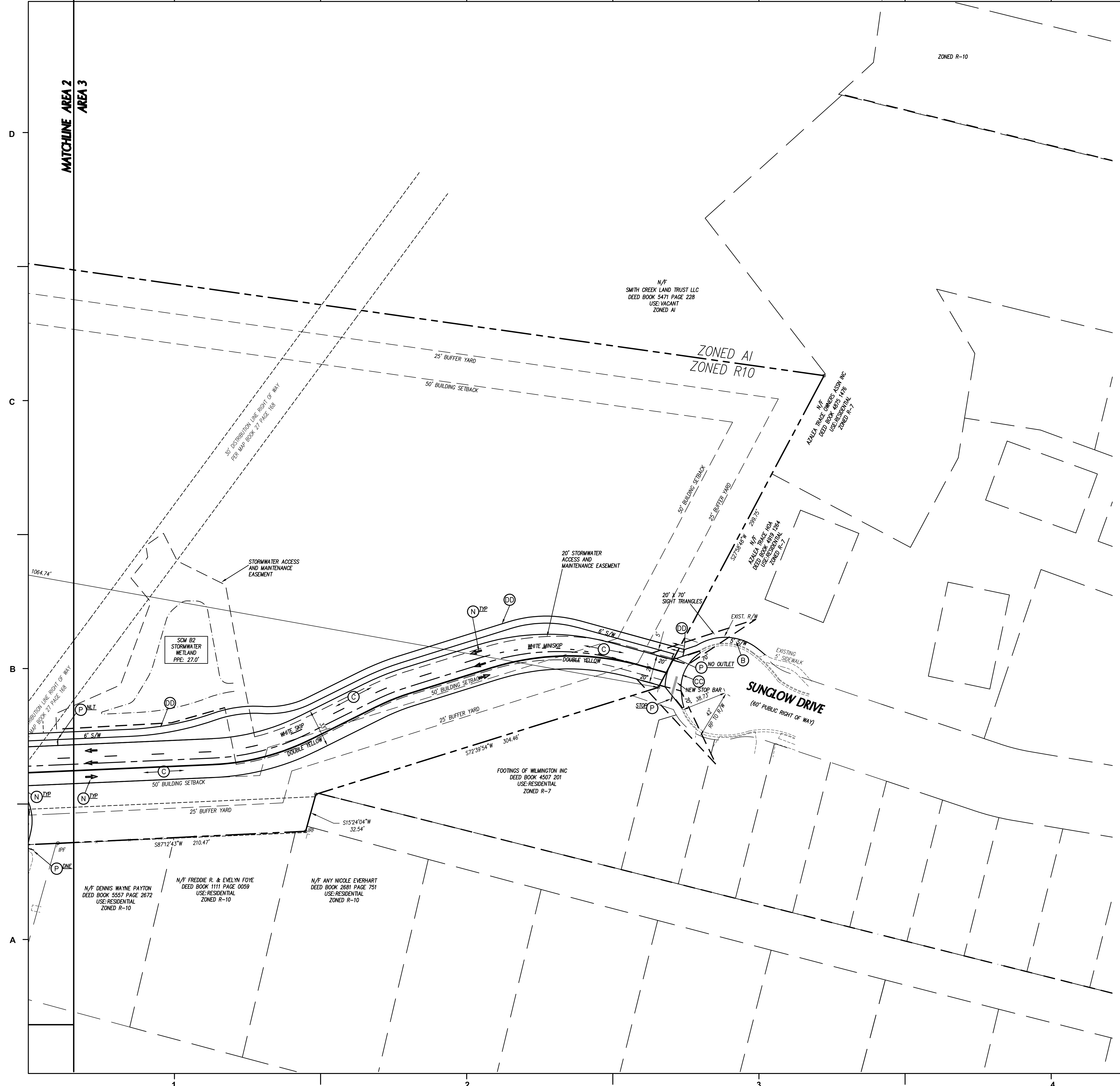
No.	Description	Date
A	80% CD/GMP SET	04/09/2018
B	80% REVISIONS	04/20/2018
C	BIDDING CLARIFICATIONS	05/04/2018
D	EARLY GRADING	06/01/2018

PROJECT: 7201-169350 / (CLH-17-140)
DATE: JUNE 26, 2018
DRAWN BY: ST, GSH, YLA, DL
CHECKED BY: CLH, GSH, ZRP

STAKING PLAN - AREA 2

C-102

PERMIT SET



- ### KEY NOTES
- (A) 24" CONCRETE CURB & GUTTER, SEE DETAIL SHEET C702.
 - (B) CONCRETE SIDEWALK, SEE DETAIL SHEET C702.
 - (C) HEAVY DUTY ASPHALT PAVEMENT, SEE DETAIL SHEET C702.
 - (D) LIGHT DUTY ASPHALT PAVEMENT, SEE DETAIL SHEET C702.
 - (E) CONCRETE PAVEMENT, SEE DETAIL SHEET C702.
 - (F) NOT USED
 - (G) SEAT WALL, SEE DETAIL SHEET C703.
 - (H) ACCESSIBLE PARKING SIGNAGE, SEE DETAIL SHEET C715.
 - (I) SEE ARCHITECTURAL PLANS FOR SCREEN WALLS, CANOPY, SHED, ETC.
 - (J) 4-FT TALL BLACK VINYL COATED CHAIN-LINK FENCE/GATE, SEE DETAIL SHEET C704.
 - (K) PIPE GATE, SEE DETAIL SHEET.
 - (L) ACCESSIBLE CURB RAMP, SEE DETAIL SHEET C703.
 - (M) COLLAPSIBLE STEEL BOLLARD, SEE DETAIL SHEET C704.
 - (N) DIRECTIONAL ARROW, SEE TRAFFIC CONTROL NOTES THIS SHEET.
 - (O) CONCRETE SIDEWALK/PAVEMENT FLUSH W/ ASPHALT PAVEMENT.
 - (P) TRAFFIC CONTROL SIGNAGE, SEE TRAFFIC CONTROL NOTES THIS SHEET.
 - (Q) FIRE LANE STRIPING, SEE TRAFFIC CONTROL NOTES THIS SHEET.
 - (R) HI-VIS CROSSWALK, SEE DETAIL SHEET C702.
 - (S) DUMPSTERS, PROVIDED BY OWNER
 - (T) STANDARD METHOD OF ENDING CURB, SEE DETAIL SHEET C702.
 - (U) PARKING SPACE MARKINGS, SEE TRAFFIC CONTROL NOTES THIS SHEET.
 - (V) NO PARKING - FIRE LANE SIGNAGE, SEE DETAIL SHEET C703.
 - (W) BIKE RACKS, SEE DETAIL SHEET C702.
 - (X) STOP BAR, SEE TRAFFIC CONTROL NOTES THIS SHEET.
 - (Y) GEO-GRID REINFORCED GRASS SURFACE PAVING, SEE DETAIL SHEET C703.
 - (Z) DUMPSTER ENCLOSURE, SEE DETAILS SHEET C704.
 - (AA) CONCRETE WHEELSTOP, SEE DETAIL SHEET C702.
 - (BB) FLAG POLE, SEE DETAIL SHEET C703.
 - (CC) DRIVEWAY TO BE CONSTRUCTED PER CITY OF WILMINGTON DETAIL ON DETAIL SHEET C704.
 - (DD) 6' WIDE ASPHALT SIDEWALK
 - (EE) 5' TALL WOOD SCREEN FENCE (GATE LOCATIONS AS SHOWN -(-))
 - (FF) WARNING DOMES

- ### GENERAL NOTES
- ALL DIMENSIONS SHOWN ARE FACE OF CURB AND FACE OF BUILDING WALL, UNLESS OTHERWISE SHOWN.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS SHOWN AND CONTACT THE ARCHITECT IF ANY DISCREPANCIES OCCUR.
 - CONSTRUCTION STAKE OUT IS THE RESPONSIBILITY OF THE CONTRACTOR.
 - ALL SIGNS AND PAVEMENT MARKINGS ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
 - PAVEMENT MARKINGS IN PUBLIC RIGHT-OF-WAYS AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY OF WILMINGTON AND/OR NCDOT STANDARDS.
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 - NO PORTION OF THIS PROPERTY IS LOCATED IN THE 100 YEAR FLOOD ZONE PER FIRM PANEL 3720315800 J DATED APR. 3, 2006.

TRAFFIC CONTROL NOTES

- ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.

SIGN	MUTCD STD.	SIZE
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MARKING	NCDOT STD.	SIZE	COLOR
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DIRECTIONAL ARROWS	STD.	4-IN	WHT.
NO PARKING - FIRE LANE *	-	4-IN	WHT.
SOLID	-	4-IN	WHT.
CROSSWALK	1205.07(HI-VIS)	24-IN	WHT.
STOP BAR	-	24-IN	WHT.

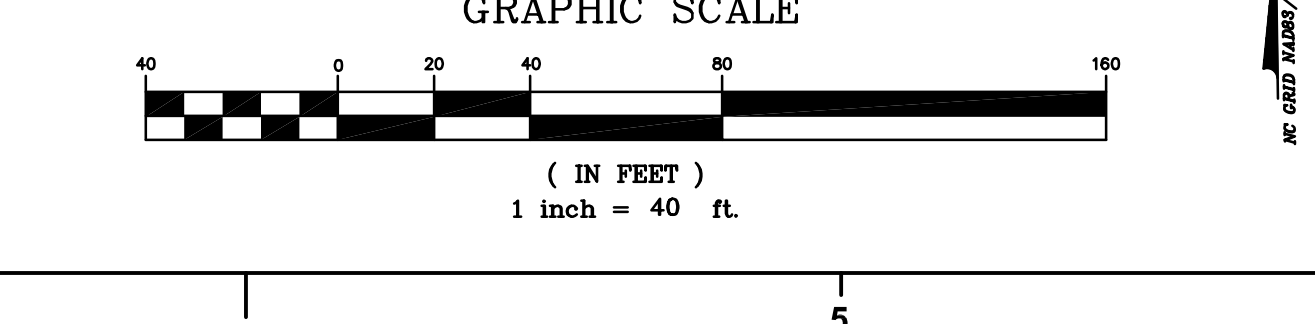
* NO PARKING - FIRE LANE MARKING SHALL CONSIST OF A 4" SOLID WHITE STRIPE AND 8" HIGH WHITE TEXT "NO PARKING - FIRE LANE" AT 50' INTERVALS. PROVIDE IN ALL PAVED AREAS AS DESIGNATED BY FIRE MARSHALL. (BID SHALL INCLUDE STRIPING AND SIGNAGE AS SHOWN OF PLANS PLUS AN EXTRA 500 LF OF NO PARKING FIRE LANE STRIPING AND 5 NO PARKING FIRE LANE SIGNS.) ALL PAVEMENT MARKINGS SHALL BE ALKID-RESIN TYPE PAINT PER CITY OF WILMINGTON STANDARDS.
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- CENTER ALL DIRECTIONAL ARROWS WITHIN TRAVEL LANE.
- ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.

NOTE: A VARIANCE HAS BEEN REQUESTED FROM CITY OF WILMINGTON ENGINEERING REGARDING THE 500'/800' RULE IN CHAPTER VI, C(4), PG. 7-15 TO 7-16 COWTSSM.

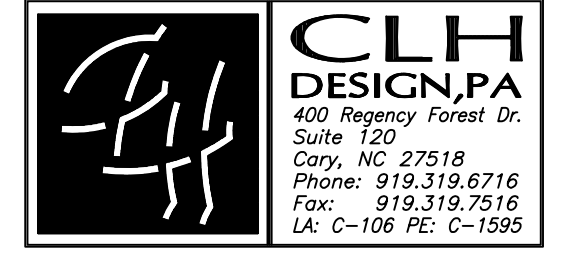
APPROVED CONSTRUCTION PLAN

NAME	DATE
PLANNING _____	_____
TRAFFIC _____	_____
FIRE _____	_____

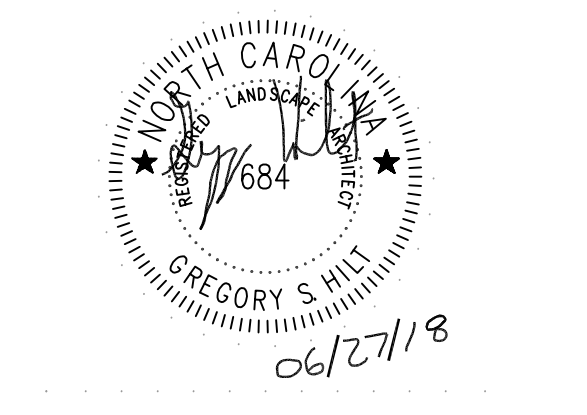
City of Wilmington
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____



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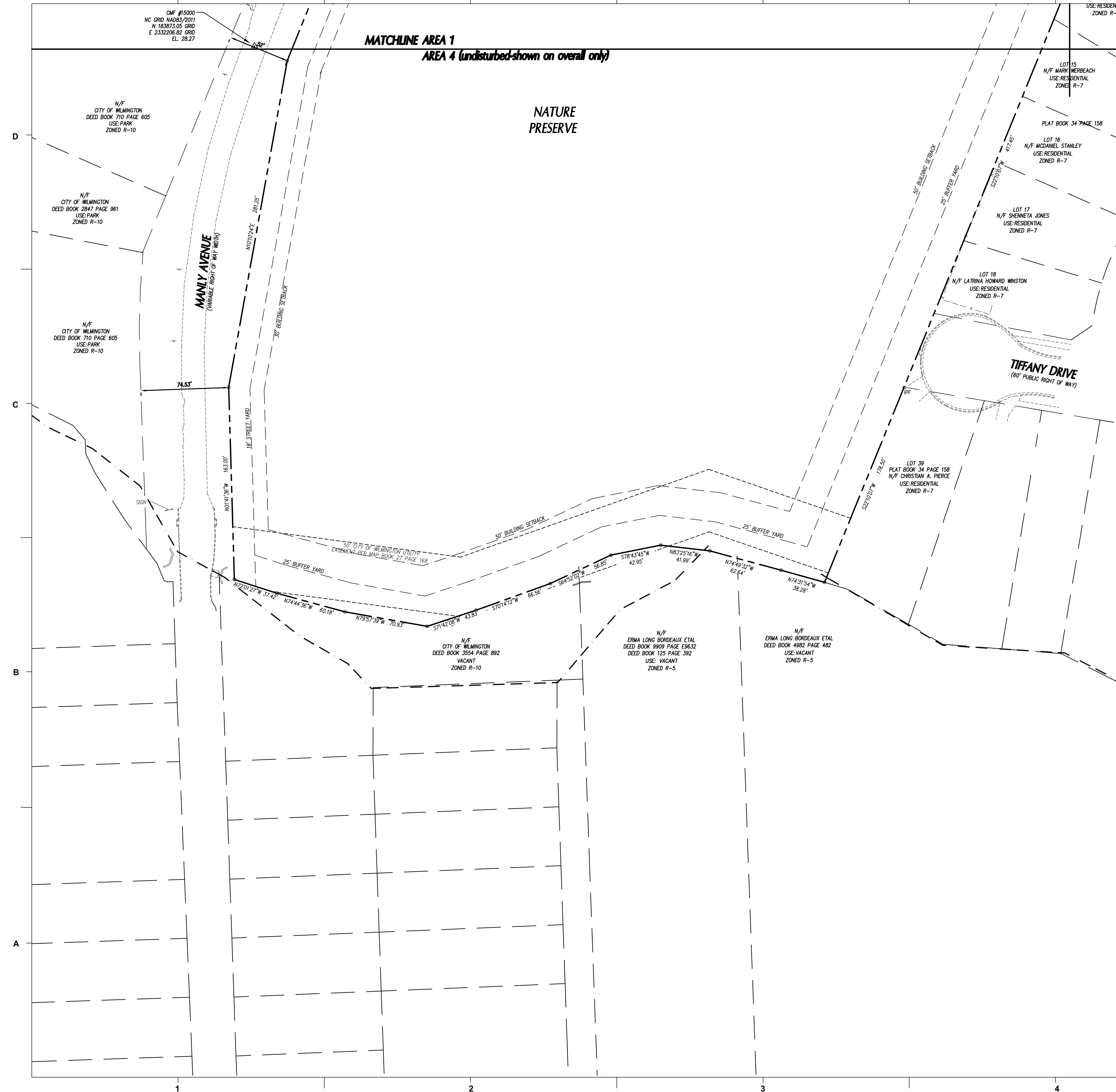
No.	Description	Date
A	80% CD/GMP SET	04/09/2018
B	PERMIT SET	04/24/2018
C	BIDDING CLARIFICATIONS	05/04/2018
D	EARLY GRADING	06/01/2018

PROJECT: 7201-169350/ (CLH:17-140)
DATE: JUNE 26, 2018
DRAWN BY: ST, GSH, YLA, DL
CHECKED BY: CLH, GSH, ZRP

STAKING PLAN - AREA 3

C-103

PERMIT SET



KEY NOTES

- (A) 24" CONCRETE CURB & GUTTER, SEE DETAIL SHEET C702.
- (B) CONCRETE SIDEWALK, SEE DETAIL SHEET C702.
- (C) HEAVY DUTY ASPHALT PAVEMENT, SEE DETAIL SHEET C702.
- (D) LIGHT DUTY ASPHALT PAVEMENT, SEE DETAIL SHEET C702.
- (E) CONCRETE PAVEMENT, SEE DETAIL SHEET C702.
- (F) NOT USED
- (G) SEAT WALL, SEE DETAIL SHEET C703.
- (H) ACCESSIBLE PARKING SIGNAGE, SEE DETAIL SHEET C715.
- (I) SEE ARCHITECTURAL PLANS FOR SCREEN WALLS, CANOPY, SHED, ETC.
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- (K) PIPE GATE, SEE DETAIL SHEET.
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- (N) DIRECTIONAL ARROW, SEE TRAFFIC CONTROL NOTES THIS SHEET.
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- (AA) CONCRETE WHEELSTOP, SEE DETAIL SHEET C702.
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- (CC) DRIVEWAY TO BE CONSTRUCTED PER CITY OF WILMINGTON DETAIL ON DETAIL SHEET C704.
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- (EE) 5' TALL WOOD SCREEN FENCE (GATE LOCATIONS AS SHOWN -(-))
- (FF) WARNING DOMES

GENERAL NOTES

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2. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS SHOWN AND CONTACT THE ARCHITECT IF ANY DISCREPANCIES OCCUR.
3. CONSTRUCTION STAKE OUT IS THE RESPONSIBILITY OF THE CONTRACTOR.
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8. ALL PARKING STALL RADII SHALL BE 4' UNLESS OTHERWISE NOTED.
9. PIPE GATE AT THE CARPOOL/FIRE LANE SHALL MEET THE CITY OF WILMINGTON FIRE SERVICES GATE REQUIREMENTS FOR LOCKING ARRANGEMENTS.
10. NO PORTION OF THIS PROPERTY IS LOCATED IN THE 100 YEAR FLOOD ZONE PER FIRM PANEL 3720315800 J DATED APR. 3, 2006.

TRAFFIC CONTROL NOTES

1. ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.

SIGN	MUTCD STD.	SIZE
STOP	R1-1	30"x30"
ONE WAY	R6-1	36"x12"
DO NOT ENTER (DNE)	R5-1	30"x30"
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3. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MUTCD AND NCDOT STANDARDS AND THE PROJECT SPECIFICATIONS.

MARKING	NCDOT STD.	SIZE	COLOR
PARKING SPACE	-	4-IN	WHT.
DIRECTIONAL ARROWS	1205.08	STD.	WHT.
NO PARKING - FIRE LANE *	-	4-IN	WHT.
SOLID	-	4-IN	WHT.
CROSSWALK	1205.07(HI-VIS)	24-IN	WHT.
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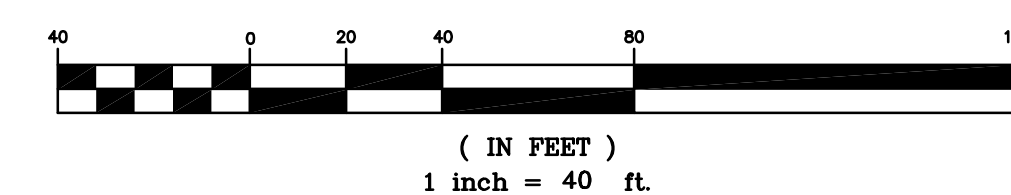
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6. CENTER ALL DIRECTIONAL ARROWS WITHIN TRAVEL LANE.
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NOTE: A VARIANCE HAS BEEN REQUESTED FROM CITY OF WILMINGTON ENGINEERING REGARDING THE 500'/800' RULE IN CHAPTER VII, C(4), PG. 7-15 TO 7-16 COMWSSM.

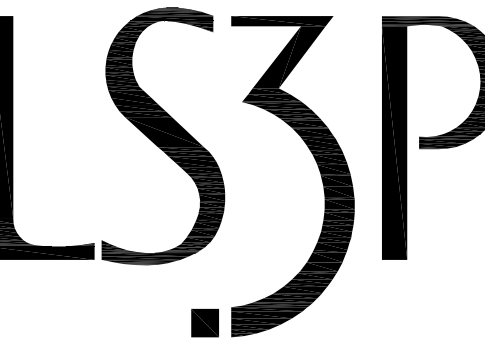
APPROVED CONSTRUCTION PLAN	
NAME	DATE
PLANNING _____	_____
TRAFFIC _____	_____
FIRE _____	_____

WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____

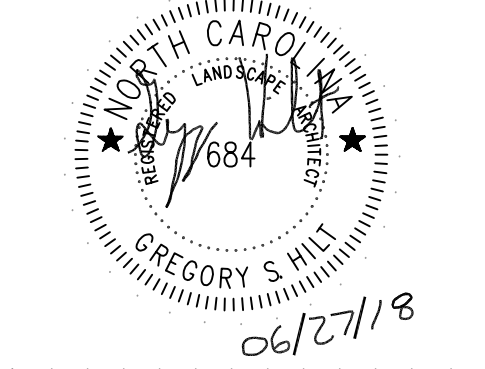
GRAPHIC SCALE



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REVISIONS:

No.	Description	Date
A	80% CD/GMP SET	04/09/2018
B	PERMIT SET	04/24/2018
C	BIDDING CLARIFICATIONS	05/04/2018
D	EARLY GRADING	06/01/2018

PROJECT: 7201-169350/ (CLH:17-140)
DATE: JUNE 26, 2018
DRAWN BY: ST, GSH, YLA, DL
CHECKED BY: CLH, GSH, ZRP

STAKING PLAN - AREA 4

C-104

LEGEND

△	= GPS CONTROL POINT	□	= MAILBOX
□	= CONCRETE MONUMENT FOUND	○	= FIRE HYDRANT
IPFO	= IRON PIPE FOUND	○	= WATER VALVE
IRFO	= IRON ROD FOUND	○	= WATER METER
○	= CALCULATED POINT	○	= LIGHT POLE
DB	= DEED BOOK	○	= POWER POLE
PG	= PAGE	○	= GUY WIRE
N/F	= NOW/FORMERLY	○	= SANITARY SEWER MANHOLE
INV.	= INVERT	○	= STORM DRAIN MANHOLE
EL.	= ELEVATION	○	= CURB INLET
○	= GROUND SHOT ELEVATION	○	= SIGN
○	= CONCRETE	○	= ASPHALT PAVEMENT
○	= NEW HANOVER COUNTY GIS	○	= UNDERGROUND STORM LINE
○	= WOODLINE	○	= UNDERGROUND SANITARY LINE

TREE LEGEND

○	= GRAPE
○	= GUM
○	= HICKORY
○	= OAK
○	= MAGNOLIA
○	= MAPLE
○	= MIMOSA
○	= PECAN
○	= PINE
○	= POPLAR
○	= SYCAMORE

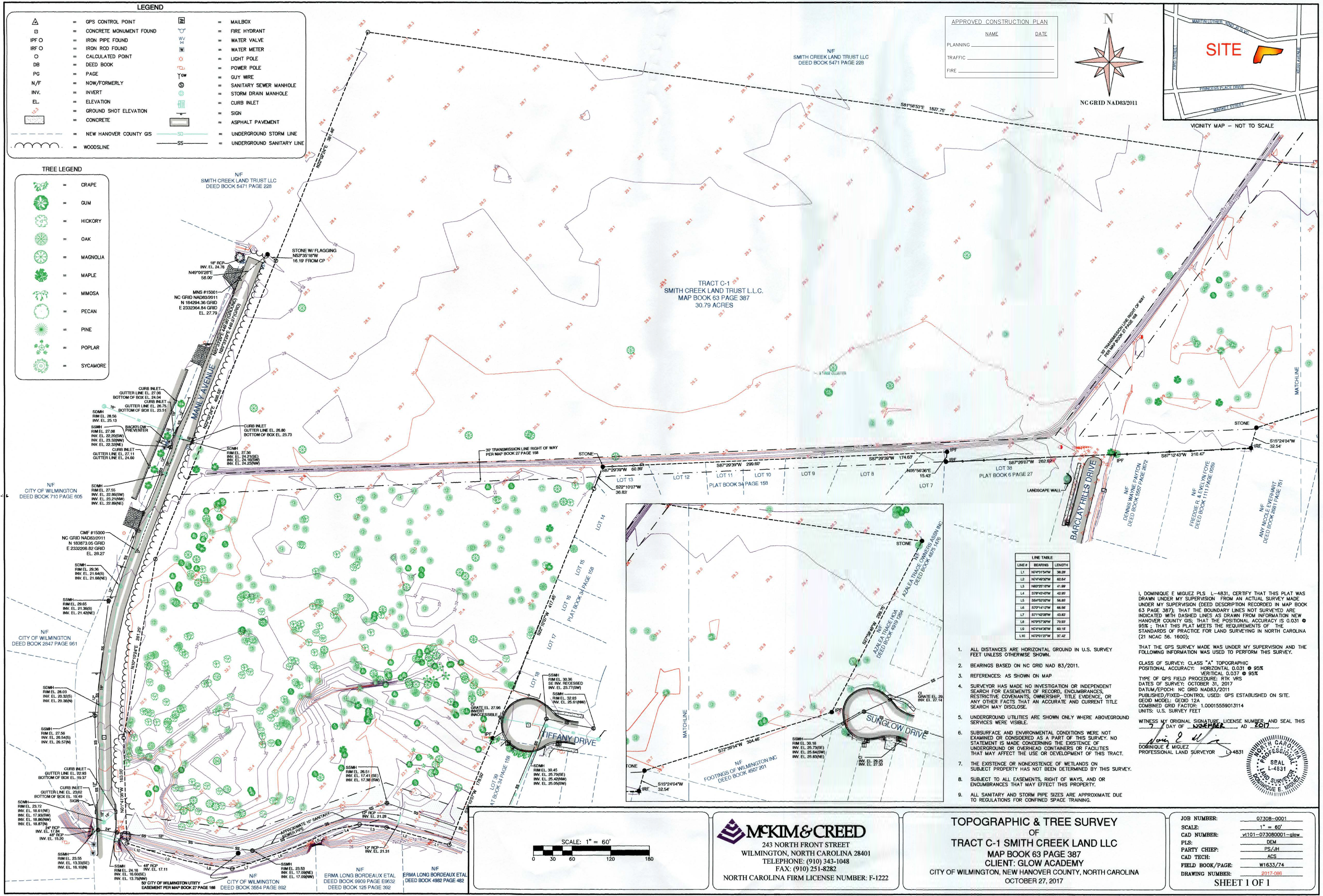
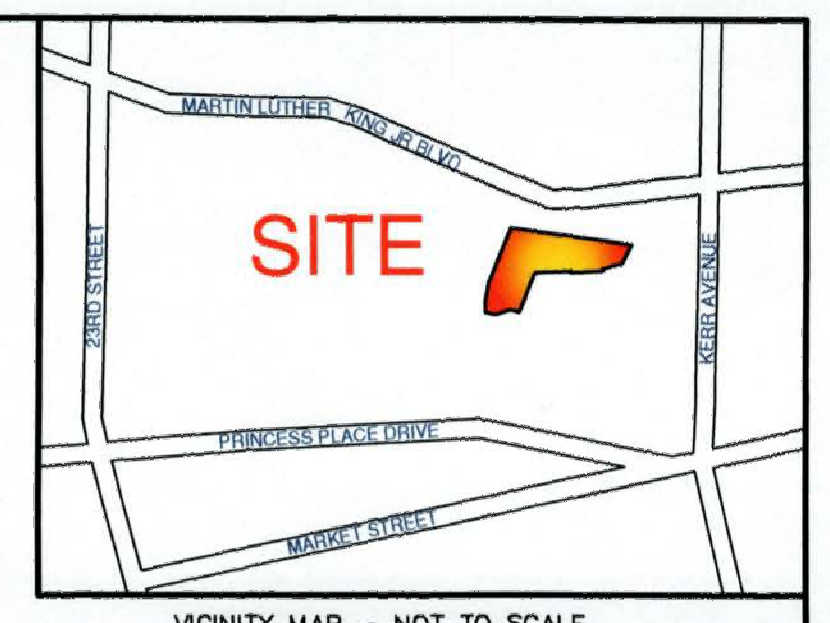
APPROVED CONSTRUCTION PLAN

NAME _____ DATE _____

PLANNING _____

TRAFFIC _____

FIRE _____



LINE TABLE

LINE #	BEARING	LENGTH
L1	N4°15'14"W	38.28
L2	N7°42'32"W	62.64
L3	N83°22'18"W	41.89
L4	S7°43'49"W	42.95
L5	S6°42'02"W	56.85
L6	S7°14'12"W	66.56
L7	S7°42'08"W	43.82
L8	N7°57'30"W	70.97
L9	N2°44'30"W	60.18
L10	N72°12'07"W	37.42

I, DOMINIQUE E MIGUEZ PLS L-4831, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION (DEED DESCRIPTION RECORDED IN MAP BOOK 63 PAGE 387); THAT THE BOUNDARY LINES NOT SURVEYED ARE INDICATED WITH DASHED LINES AS DRAWN FROM INFORMATION NEW HANOVER COUNTY GIS; THAT THE POSITIONAL ACCURACY IS 0.031 @ 95% ; THAT THIS PLAT MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56. 1600);

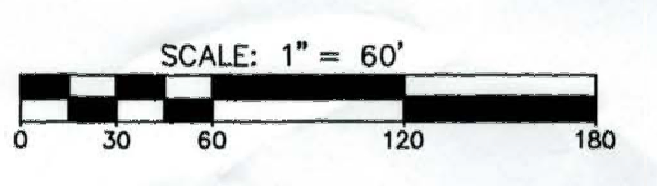
- ALL DISTANCES ARE HORIZONTAL GROUND IN U.S. SURVEY FEET UNLESS OTHERWISE SHOWN.
- BEARINGS BASED ON NC GRID NAD 83/2011.
- REFERENCES: AS SHOWN ON MAP
- SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP, TITLE EVIDENCE, OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.
- UNDERGROUND UTILITIES ARE SHOWN ONLY WHERE ABOVEGROUND SERVICES WERE VISIBLE.
- SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS A PART OF THIS SURVEY. NO STATEMENT IS MADE CONCERNING THE EXISTENCE OF UNDERGROUND OR OVERHEAD CONTAINERS OR FACILITIES THAT MAY AFFECT THE USE OR DEVELOPMENT OF THIS TRACT.
- THE EXISTENCE OR NONEXISTENCE OF WETLANDS ON SUBJECT PROPERTY HAS NOT BEEN DETERMINED BY THIS SURVEY.
- SUBJECT TO ALL EASEMENTS, RIGHT OF WAYS, AND OR ENCUMBRANCES THAT MAY AFFECT THIS PROPERTY.
- ALL SANITARY AND STORM PIPE SIZES ARE APPROXIMATE DUE TO REGULATIONS FOR CONFINED SPACE TRAINING.

THAT THE GPS SURVEY MADE WAS UNDER MY SUPERVISION AND THE FOLLOWING INFORMATION WAS USED TO PERFORM THIS SURVEY.

CLASS OF SURVEY: CLASS "A" TOPOGRAPHIC
 POSITIONAL ACCURACY: HORIZONTAL 0.031 @ 95%
 VERTICAL 0.037 @ 95%
 TYPE OF GPS FIELD PROCEDURE: RTK WRS
 DATES OF SURVEY: OCTOBER 31, 2017
 DATUM/EPOCH: NC GRID NAD83/2011
 PUBLISHED/FIXED-CONTROL USED: GPS ESTABLISHED ON SITE
 GEOID MODEL: GEOID 12A
 COMBINED GRID FACTORS: 1.00015559013114
 UNITS: U.S. SURVEY FEET

WITNESS MY ORIGINAL SIGNATURE, LICENSE NUMBER, AND SEAL THIS DAY OF NOVEMBER AD 2017

Dominique E Miguez
 DOMINIQUE E MIGUEZ
 PROFESSIONAL LAND SURVEYOR L-4831



MCKIM & CREED
 243 NORTH FRONT STREET
 WILMINGTON, NORTH CAROLINA 28401
 TELEPHONE: (910) 343-1048
 FAX: (910) 251-8282
 NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

TOPOGRAPHIC & TREE SURVEY
 OF
TRACT C-1 SMITH CREEK LAND LLC
 MAP BOOK 63 PAGE 387
 CLIENT: GLOW ACADEMY
 CITY OF WILMINGTON, NEW HANOVER COUNTY, NORTH CAROLINA
 OCTOBER 27, 2017

JOB NUMBER: 07308-0001
 SCALE: 1" = 60'
 CAD NUMBER: v101-073080001-glow
 PLS: JEM
 PARTY CHIEF: PS/JH
 CAD TECH: ACS
 FIELD BOOK/PAGE: W1633/74
 DRAWING NUMBER: 2017-088
 SHEET 1 OF 1

50 CITY OF WILMINGTON UTILITY EASEMENT PER MAP BOOK 27 PAGE 158
 CITY OF WILMINGTON DEED BOOK 3554 PAGE 932
 N/F ERMA LONG BORDEAUX ETAL DEED BOOK 6929 PAGE 13632
 N/F ERMA LONG BORDEAUX ETAL DEED BOOK 125 PAGE 382

OVERALL PLAN FOR REFERENCE ONLY. PLEASE SEE ENLARGED 40 SCALE SHEETS.



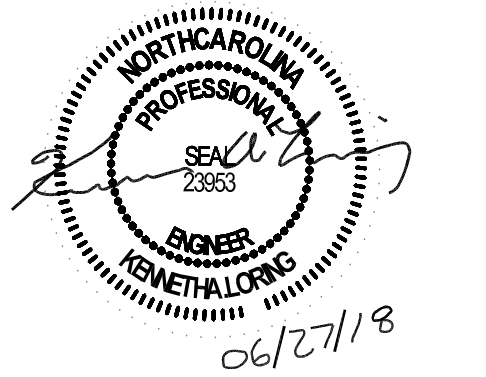
SEE SHEET C205 FOR TREE REMOVAL AND MITIGATION INFORMATION



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REVISIONS:

No.	Description	Date
A	80% CD/GMP SET	04/09/2018
B	PERMIT SET	04/24/2018
C	BIDDING CLARIFICATIONS	05/04/2018
D	EARLY GRADING	06/01/2018

PROJECT: 7201-169350/ (CLH:17-140)
DATE: JUNE 26, 2018
DRAWN BY: ST, GSH, YLA, DL
CHECKED BY: CLH, GSH, ZRP

OVERALL EXISTING CONDITIONS AND DEMOLITION PLAN

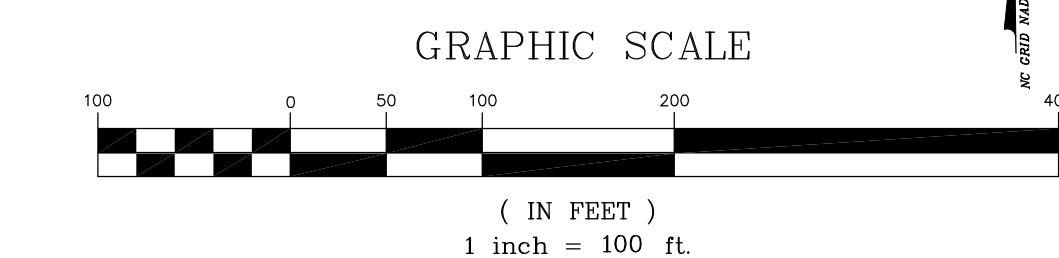
C-200

APPROVED CONSTRUCTION PLAN

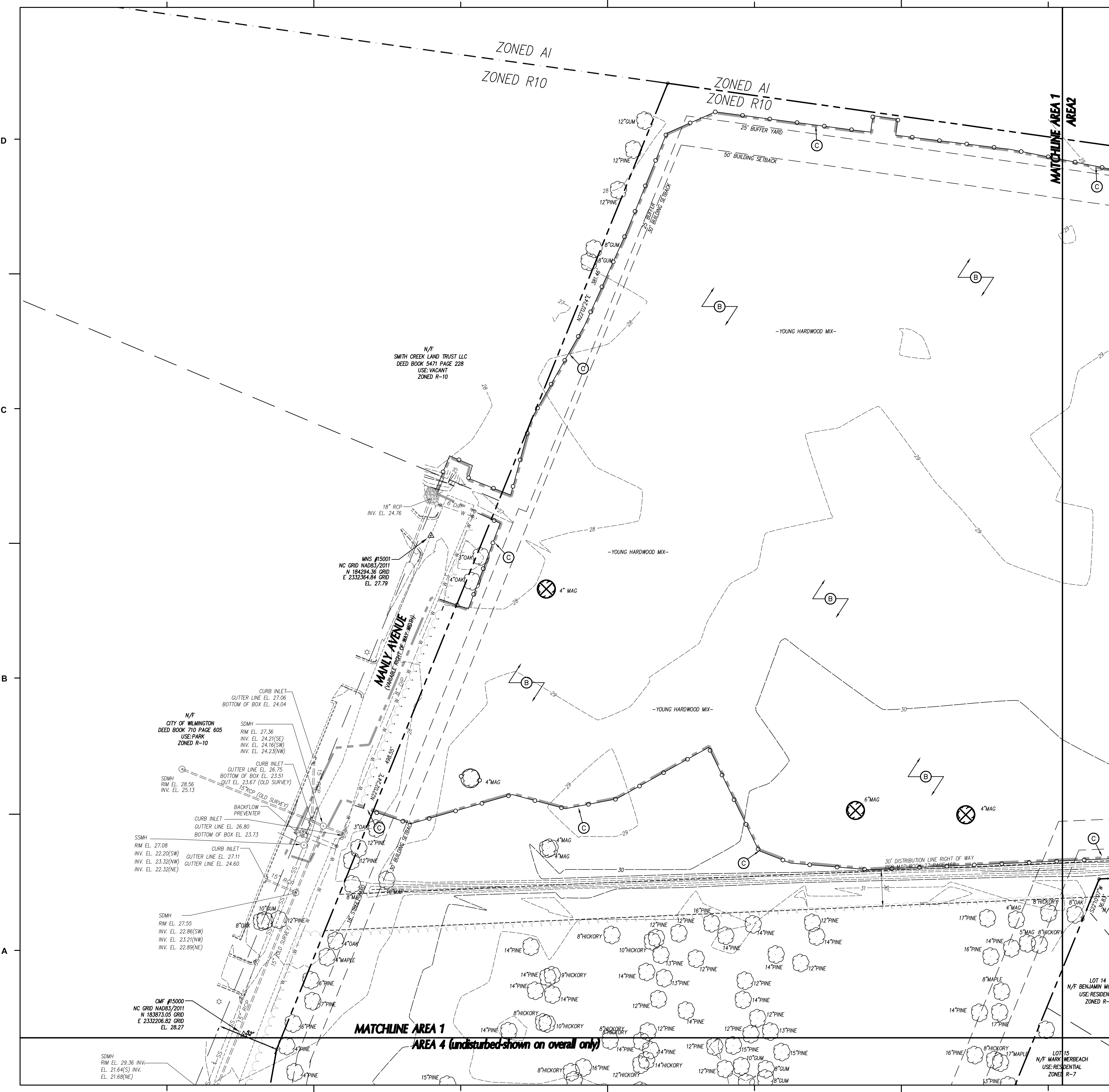
NAME	DATE
PLANNING _____	_____
TRAFFIC _____	_____
FIRE _____	_____

NOTE: A VARIANCE HAS BEEN REQUESTED FROM CITY OF WILMINGTON ENGINEERING REGARDING THE 500'/800' RULE IN CHAPTER VI, C(4), PG. 7-15 TO 7-16 CoWTSSM.

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____



PERMIT SET



LEGEND-STRUCTURES/UTILITIES TO REMAIN

OVERHEAD ELECTRICAL	---	E	LIGHT POLE	☆	LP
UNDERGROUND ELECTRICAL	---	UE	UTILITY POLE	⊙	PP
FIRE PROTECTION	---	FP	MANHOLE	⊙	MH
GAS	---	G	CLEAN OUT	⊙	CO
SANITARY SEWER	---	SS	DROP INLET,CATCH BASIN	□	DI, CB
TELEPHONE	---	T	FIRE HYDRANT	⊙	FH
UNDERGROUND TELEPHONE	---	UT	WATER VALVE	⊙	WV
FIBER OPTIC	---	FO			
WATER	---	W			
FORCE MAIN	---	FM			
STORM DRAIN	---				
INDIVIDUAL TREE TO BE REMAIN.					

LEGEND-STRUCTURES/UTILITIES TO BE REMOVED

OVERHEAD ELECTRICAL	---	E	LIGHT POLE	☆	LP
UNDERGROUND ELECTRICAL	---	UE	UTILITY POLE	⊙	PP
FIRE PROTECTION	---	FP	MANHOLE	⊙	MH
GAS	---	G	CLEAN OUT	⊙	CO
SANITARY SEWER	---	SS	DROP INLET,CATCH BASIN	□	DI, CB
TELEPHONE	---	T	FIRE HYDRANT	⊙	FH
UNDERGROUND TELEPHONE	---	UT	WATER VALVE	⊙	WV
FIBER OPTIC	---	FO			
WATER	---	W			
FORCE MAIN	---	FM			
STORM DRAIN	---				
INDIVIDUAL TREE TO BE REMOVED.					

- KEY NOTES**
- (A) SAWCUT AND REMOVE PAVEMENT, CURB & GUTTER, AND SIDEWALK.
 - (B) CLEAR & GRUB WITHIN CONSTRUCTION LIMITS, SEE SPECIFICATIONS.
 - (C) TREE PROTECTION FENCING, SEE DETAIL SHEET C7.1.

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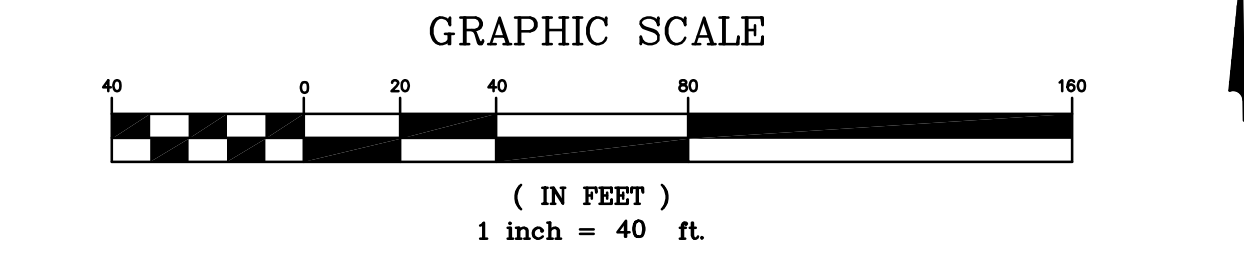
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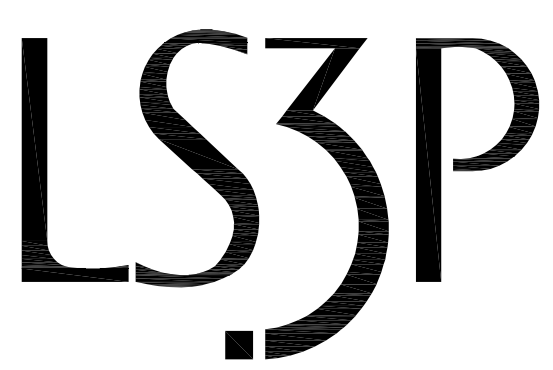
APPROVED CONSTRUCTION PLAN

NAME	DATE
PLANNING	
TRAFFIC	
FIRE	

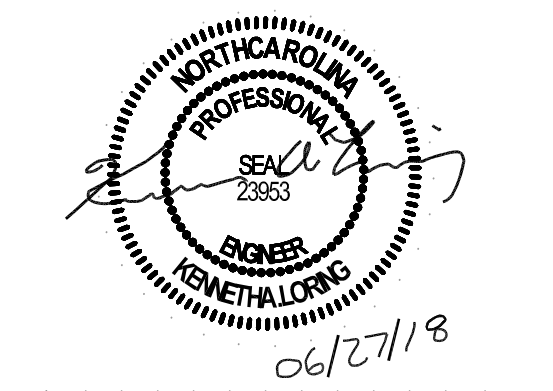
City of Wilmington
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____



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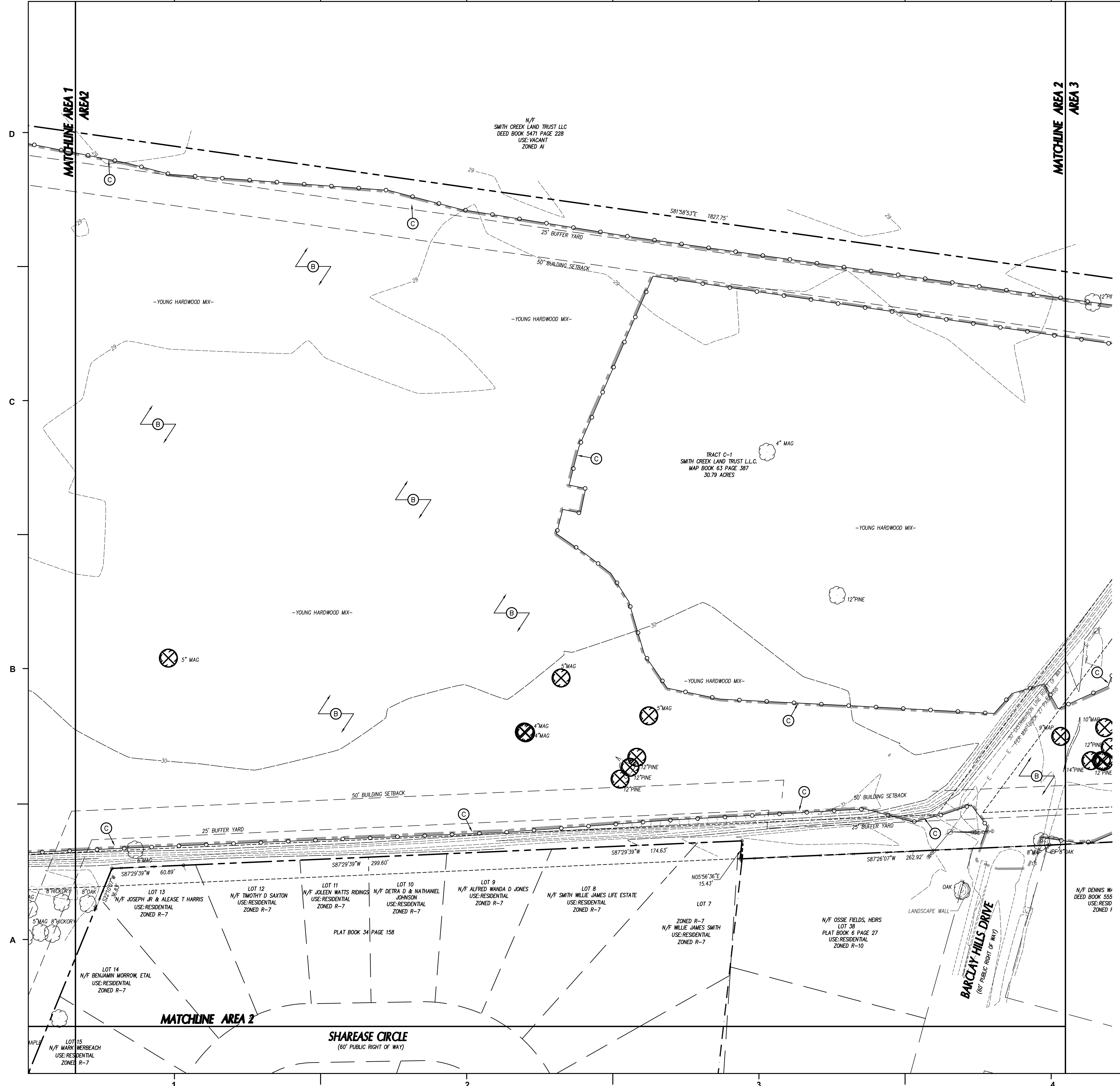
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D	EARLY GRADING	06/01/2018

PROJECT: 7201-169350/ (CLH:17-140)
DATE: JUNE 26, 2018
DRAWN BY: ST, GSH, YLA, DL
CHECKED BY: CLH, GSH, ZRP

EXISTING CONDITIONS AND DEMOLITION PLAN - AREA 1

C-201

PERMIT SET



LEGEND-STRUCTURES/UTILITIES TO REMAIN

OVERHEAD ELECTRICAL	---	E	LIGHT POLE	☆	LP
UNDERGROUND ELECTRICAL	---	UE	UTILITY POLE	⊗	PP
FIRE PROTECTION	---	FP	MANHOLE	⊙	MH
GAS	---	G	CLEAN OUT	⊙	CO
SANITARY SEWER	---	SS	DROP INLET,CATCH BASIN	□	DI, CB
TELEPHONE	---	T	FIRE HYDRANT	⊕	FH
UNDERGROUND TELEPHONE	---	UT	WATER VALVE	⊙	WV
FIBER OPTIC	---	FO			
WATER	---	W			
FORCE MAIN	---	FM			
STORM DRAIN	---				
INDIVIDUAL TREE TO REMAIN					

LEGEND-STRUCTURES/UTILITIES TO BE REMOVED

OVERHEAD ELECTRICAL	---	E	LIGHT POLE	☆	LP
UNDERGROUND ELECTRICAL	---	UE	UTILITY POLE	⊗	PP
FIRE PROTECTION	---	FP	MANHOLE	⊙	MH
GAS	---	G	CLEAN OUT	⊙	CO
SANITARY SEWER	---	SS	DROP INLET,CATCH BASIN	□	DI, CB
TELEPHONE	---	T	FIRE HYDRANT	⊕	FH
UNDERGROUND TELEPHONE	---	UT	WATER VALVE	⊙	WV
FIBER OPTIC	---	FO	CONSTR./CLEARING LIMITS	---	
WATER	---	W	PAVEMENT, S/W, CONCRETE TO BE DEMOLISHED	▨	
FORCE MAIN	---	FM	BUILDINGS TO BE DEMOLISHED REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.	▨	
STORM DRAIN	---				
INDIVIDUAL TREE TO BE REMOVED					

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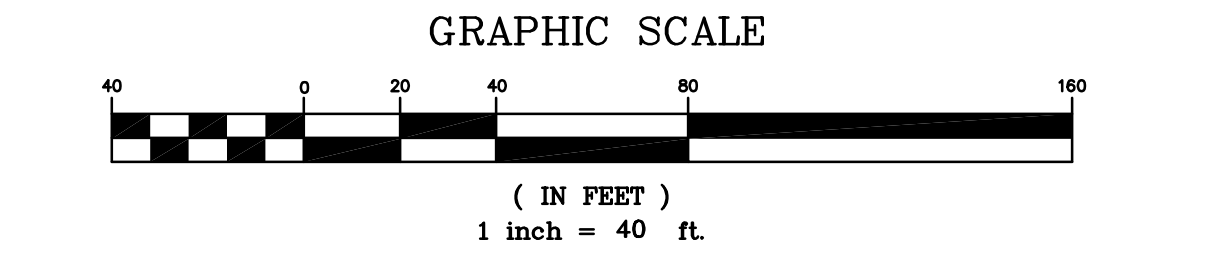
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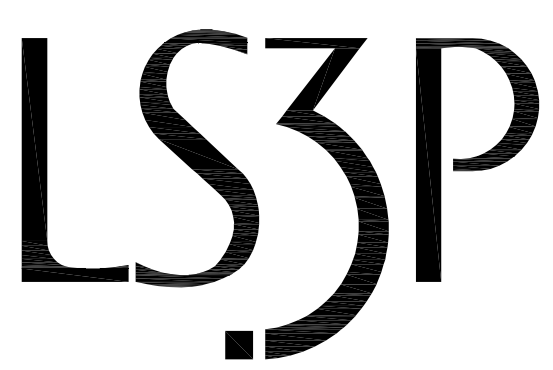
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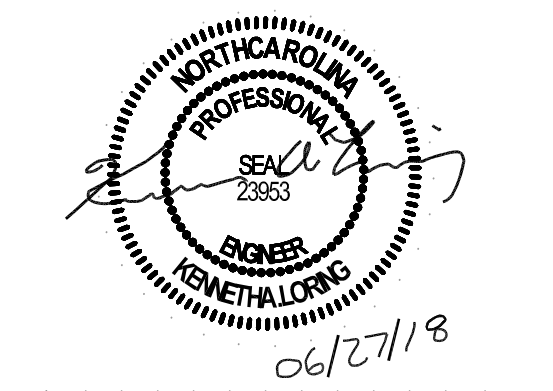
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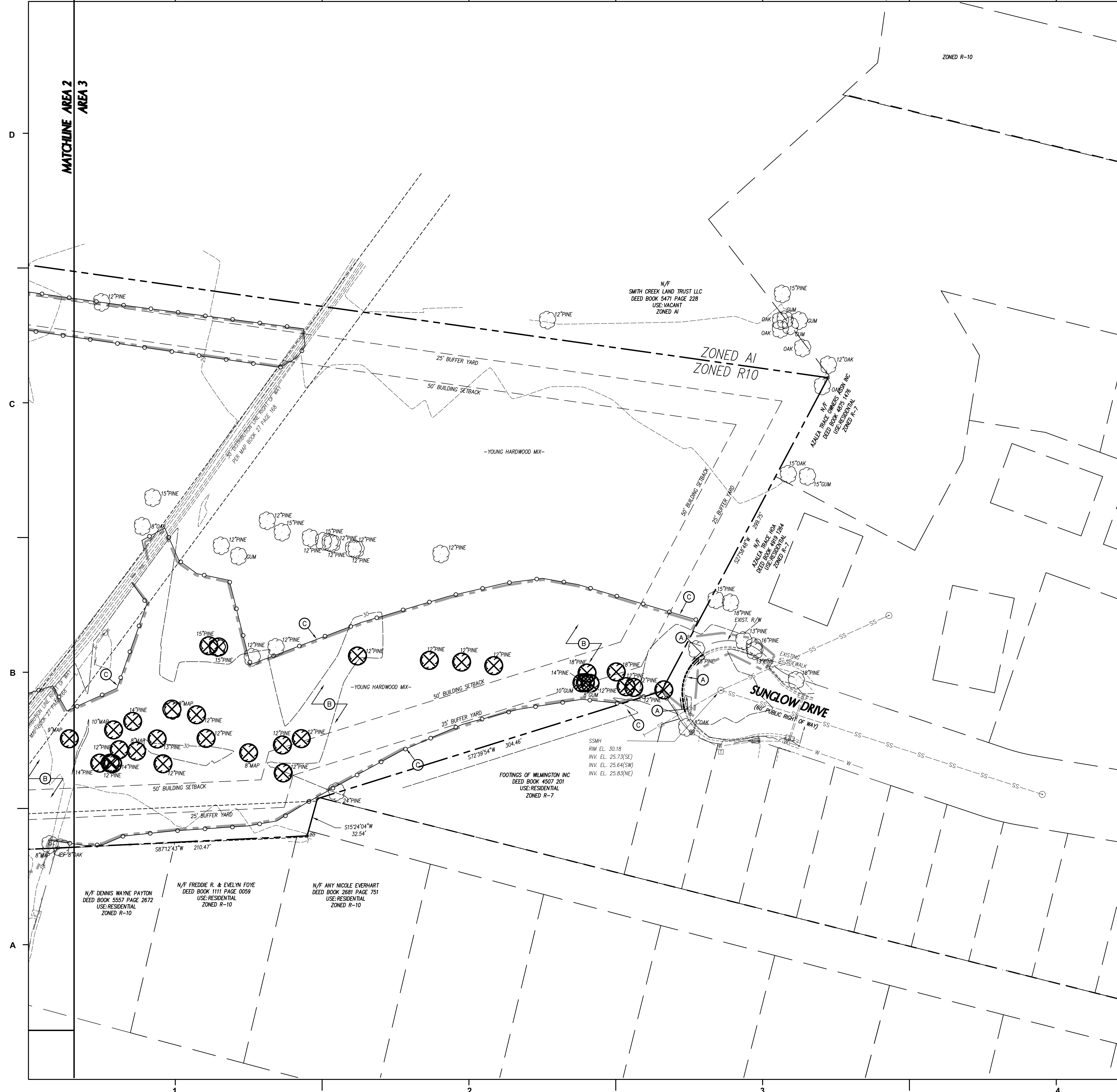
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PROJECT: 7201-169350/ (CLH:17-140)
DATE: JUNE 26, 2018
DRAWN BY: ST, GSH, YLA, DL
CHECKED BY: CLH, GSH, ZRP

EXISTING CONDITIONS AND DEMOLITION PLAN - AREA 2

C-202

PERMIT SET



LEGEND-STRUCTURES/UTILITIES TO REMAIN

OVERHEAD ELECTRICAL	---	E	LIGHT POLE	☆	LP
UNDERGROUND ELECTRICAL	---	UE	UTILITY POLE	⊗	PP
FIRE PROTECTION	---	FP	MANHOLE	⊙	MH
GAS	---	G	CLEAN OUT	⊙	CO
SANITARY SEWER	---	SS	DROP INLET,CATCH BASIN	□	DI, CB
TELEPHONE	---	T	FIRE HYDRANT	⊙	FH
UNDERGROUND TELEPHONE	---	UT	WATER VALVE	⊙	WV
FIBER OPTIC	---	FO			
WATER	---	W			
FORCE MAIN	---	FM			
STORM DRAIN	---				
INDIVIDUAL TREE TO REMAIN					

LEGEND-STRUCTURES/UTILITIES TO BE REMOVED

OVERHEAD ELECTRICAL	---	E	LIGHT POLE	☆	LP
UNDERGROUND ELECTRICAL	---	UE	UTILITY POLE	⊗	PP
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 12. EXISTING MANHOLES, VALVE BOXES, VAULTS, CLEANOUTS, UTILITY POLES ETC. TO REMAIN WITHIN THE DRAWING LIMITS SHALL BE ADJUSTED AS NEEDED TO FUNCTION PROPERLY WITH THE PROPOSED FINISHED GRADES (WHETHER OR NOT INDICATED TO BE MODIFIED).
 13. GENERAL CONTRACTOR TO COORDINATE ALL PEDESTRIAN ACCESS PATHS, LOCATIONS, LIGHTING, HANDICAP PARKING, ETC. DURING CONSTRUCTION WITH OWNER.
 14. EXISTING SURVEY INFORMATION WAS TAKEN FROM A TOPOGRAPHIC AND TREE SURVEY PERFORMED BY MOXIM & CREED DATED 10-27-17.
 15. ANY AND ALL LANDSCAPING AND EXISTING TREES & SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR UTILIZING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 16. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE WITHIN THE CONSTRUCTION AREA AFTER DEMOLITION IS COMPLETE. EXCAVATIONS FROM FOOTING AND UTILITY REMOVAL SHALL BE FILLED WITH STRUCTURAL MATERIAL AS DIRECTED BY THE OWNER'S TESTING AGENCY AND COMPACTED PER SPECIFICATIONS.
 17. AN ALL WEATHER ACCESS ROAD MUST BE MAINTAINED AROUND CONSTRUCTION AT ALL TIMES.

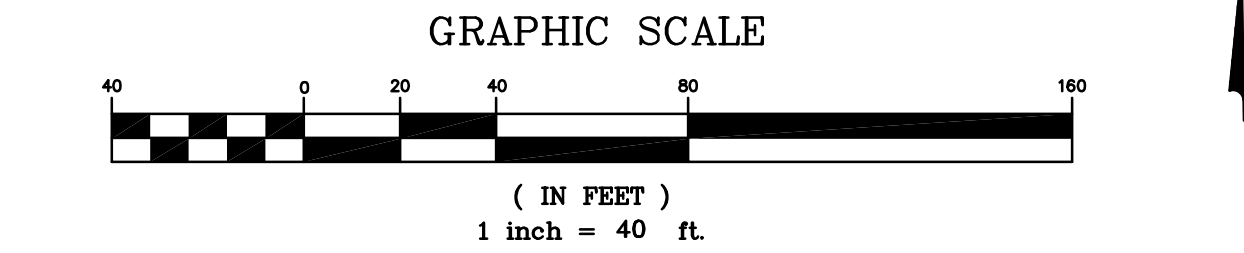
A TREE REMOVAL/PRESERVATION PERMIT IS REQUIRED PRIOR TO REMOVING ANY TREES. CONTRACTOR SHALL OBTAIN & COMPLETE PERMIT. CONTACT CITY OF WILMINGTON ZONING DEPARTMENT TO OBTAIN COPY OF PERMIT.

NOTE: A VARIANCE HAS BEEN REQUESTED FROM CITY OF WILMINGTON ENGINEERING REGARDING THE 500'/800' RULE IN CHAPTER VI, C(4), PG. 7-15 TO 7-16 COMWSSM.

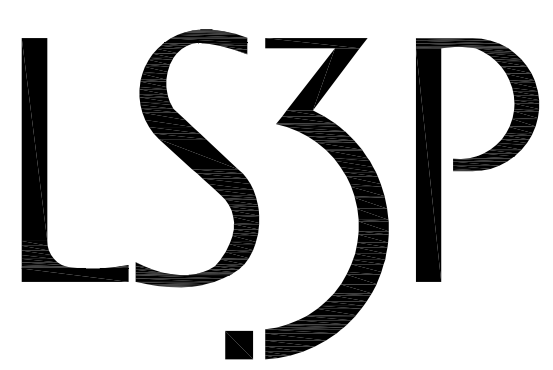
APPROVED CONSTRUCTION PLAN

NAME	DATE
PLANNING	
TRAFFIC	
FIRE	

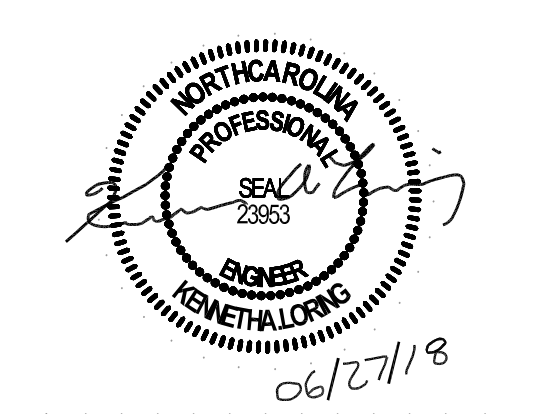
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____



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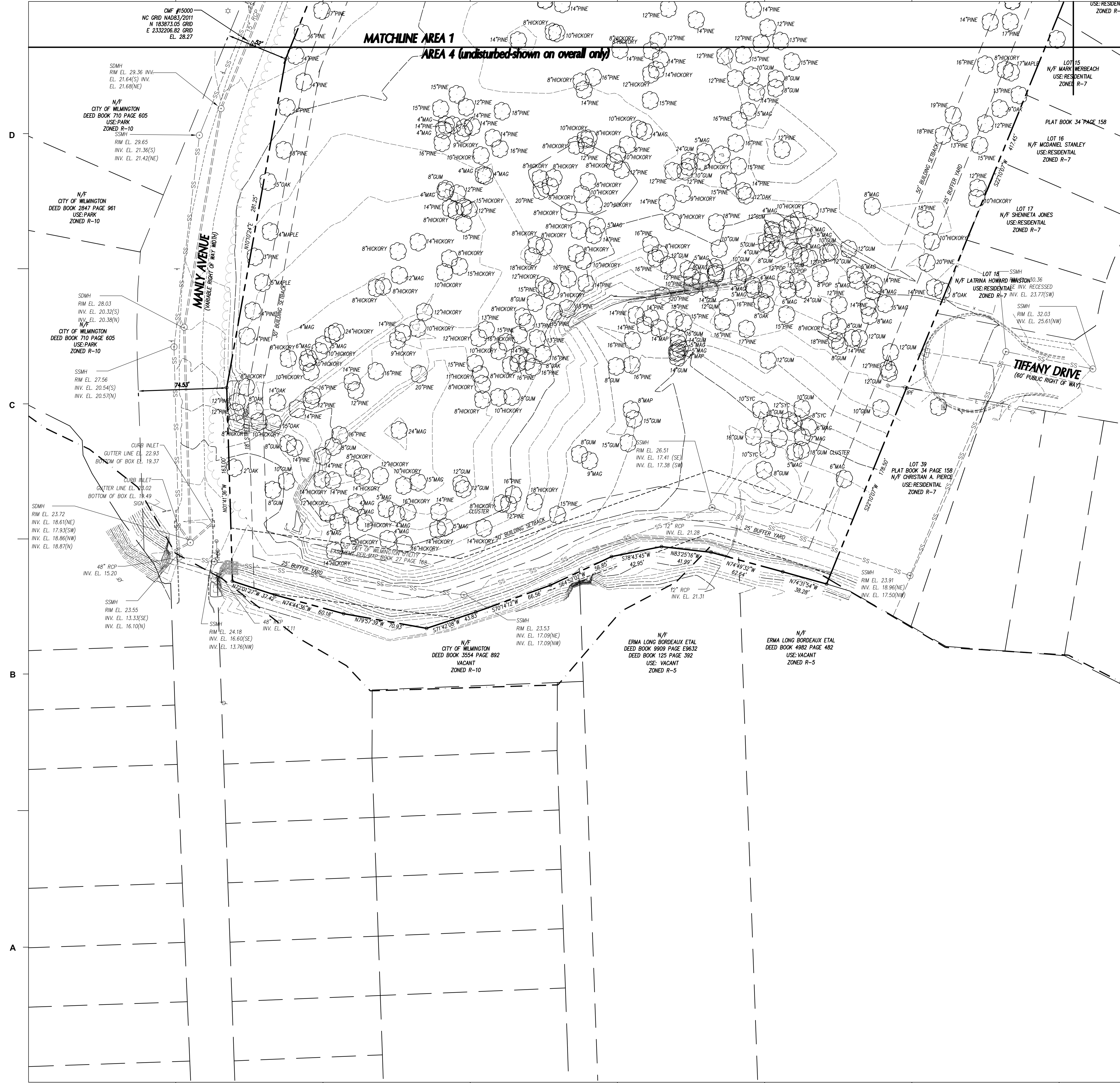
REVISIONS:

No.	Description	Date
A	80% CD/GMP SET	04/09/2018
B	PERMIT SET	04/24/2018
C	BIDDING CLARIFICATIONS	05/04/2018
D	EARLY GRADING	06/01/2018

PROJECT: 7201-169350/ (CLH:17-140)
DATE: JUNE 26, 2018
DRAWN BY: ST, GSH, YLA, DL
CHECKED BY: CLH, GSH, ZRP

EXISTING CONDITIONS AND DEMOLITION PLAN - AREA 3
C-203

PERMIT SET



LEGEND-STRUCTURES/UTILITIES TO REMAIN

OVERHEAD ELECTRICAL	---	E	LIGHT POLE	☆	LP
UNDERGROUND ELECTRICAL	---	UE	UTILITY POLE	⊗	PP
FIRE PROTECTION	---	FP	MANHOLE	⊙	MH
GAS	---	G	CLEAN OUT	⊕	CO
SANITARY SEWER	---	SS	DROP INLET/CATCH BASIN	⊞	DI, CB
TELEPHONE	---	T	FIRE HYDRANT	⊖	FH
UNDERGROUND TELEPHONE	---	UT	WATER VALVE	⊙	WV
FIBER OPTIC	---	FO			
WATER	---	W			
FORCE MAIN	---	FM			
STORM DRAIN	---				
INDIVIDUAL TREE TO BE REMAIN.					

LEGEND-STRUCTURES/UTILITIES TO BE REMOVED

OVERHEAD ELECTRICAL	---	E	LIGHT POLE	☆	LP
UNDERGROUND ELECTRICAL	---	UE	UTILITY POLE	⊗	PP
FIRE PROTECTION	---	FP	MANHOLE	⊙	MH
GAS	---	G	CLEAN OUT	⊕	CO
SANITARY SEWER	---	SS	DROP INLET/CATCH BASIN	⊞	DI, CB
TELEPHONE	---	T	FIRE HYDRANT	⊖	FH
UNDERGROUND TELEPHONE	---	UT	WATER VALVE	⊙	WV
FIBER OPTIC	---	FO	CONSTR./CLEARING LIMITS	---	
WATER	---	W	PAVEMENT, S/W, CONCRETE TO BE DEMOLISHED	▨	
FORCE MAIN	---	FM	BUILDINGS TO BE DEMOLISHED REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.	▩	
STORM DRAIN	---				
INDIVIDUAL TREE TO BE REMOVED.					

- KEY NOTES**
- (A) SAWCUT AND REMOVE PAVEMENT, CURB & GUTTER, AND SIDEWALK.
 - (B) CLEAR & GRUB WITHIN CONSTRUCTION LIMITS, SEE SPECIFICATIONS.
 - (C) TREE PROTECTION FENCING, SEE DETAIL SHEET C7.1.

- GENERAL NOTES**
1. ALL UTILITIES OR STRUCTURES NOT INDICATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN AND BE PROTECTED FROM DAMAGE.
 2. ALL WASTE MATERIAL GENERATED FROM CLEARING AND DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
 3. INSTALL TREE PROTECTION FENCING PRIOR TO BEGINNING CLEARING OPERATIONS. CLEAR AND GRUB AS NEEDED WITHIN CONSTRUCTION LIMITS PER SPECIFICATIONS AND DRAWINGS. EXISTING TREES, SHRUBS OR OTHER LANDSCAPE MATERIAL WHICH WILL CONFLICT WITH NEW CONSTRUCTION SHALL BE REMOVED (WHETHER OR NOT SHOWN ON THE DRAWINGS) FOLLOWING APPROVAL OF ARCHITECT. BY SUBMITTING A BID, CONTRACTOR ACKNOWLEDGES THAT THE SITE HAS BEEN INVESTIGATED TO DETERMINE TYPE, SIZE AND QUANTITY OF CLEARING REQUIRED FOR CONSTRUCTION.
 4. LAND CLEARING AND CONSTRUCTION CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTION ON TREE PROTECTION REQUIREMENTS AND METHODS (PER CODE SECT. 18-457(D)).
 5. NO EQUIPMENT IS ALLOWED ON SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING HAS BEEN INSTALLED AND APPROVED (PER CODE SECT. 18-458).
 6. NO LAND DISTURBANCE, INCLUDING TREE REMOVAL, IS TO OCCUR OUTSIDE THE LIMITS OF DISTURBANCE SHOWN (PER CODE SECT. 18-457 (B)).
 7. ALL PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAW CUT TO PROVIDE A STRAIGHT AND UNIFORM JOINT WITH NEW CONSTRUCTION. ANY EXISTING PAVEMENT, SIDEWALK, CURB & GUTTER, ETC. THAT MUST BE REMOVED TO ALLOW NEW CONSTRUCTION SHALL BE REMOVED AND REPAIRED PER THE SPECIFICATIONS AND DETAILS OR TO MATCH EXISTING CONDITIONS (WHETHER OR NOT SHOWN ON THE DRAWINGS TO BE REMOVED). UTILITY INSTALLATIONS MAY UTILIZE OPEN CUT OF PAVEMENTS UNLESS INDICATED OTHERWISE. TRENCH IN EXISTING ASPHALT SHALL BE PATCHED PER PAVEMENT REPAIR ON DETAIL SHEET.
 8. PROTECT ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC AND ALL OF THE OWNER'S FACILITIES. SHOULD DAMAGES OCCUR, NOTIFY ARCHITECT IMMEDIATELY.
 9. THE CONTRACTOR SHALL EMPLOY A QUALIFIED UTILITY LOCATOR SERVICE TO LOCATE ALL UNDERGROUND UTILITIES (INCLUDING BUT NOT LIMITED TO ELECTRICAL, TELEPHONE, GAS, CABLE, FIBER OPTIC) WITHIN THE LIMITS OF CONSTRUCTION.
 10. VERIFY ALL ILLUSTRATED KNOWN UNDERGROUND ELEMENTS. EXERCISE REASONABLE EFFORTS TO PROTECT ANY UNKNOWN UNDERGROUND ELEMENTS. NOTIFY ARCHITECT IMMEDIATELY IF UNKNOWN ELEMENTS ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE PROPOSED DESIGN.
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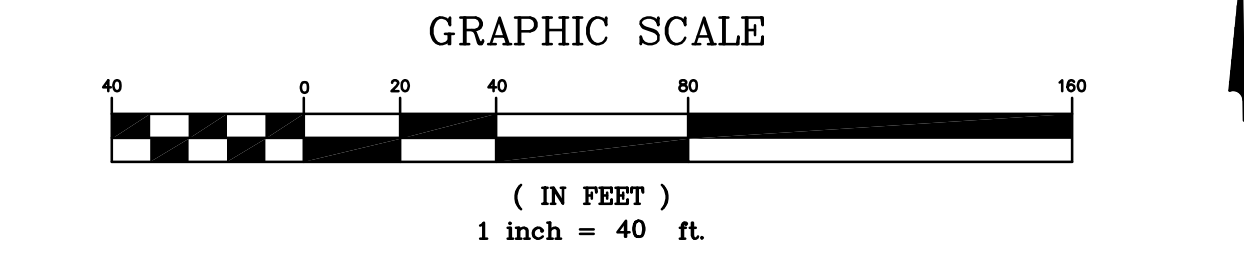
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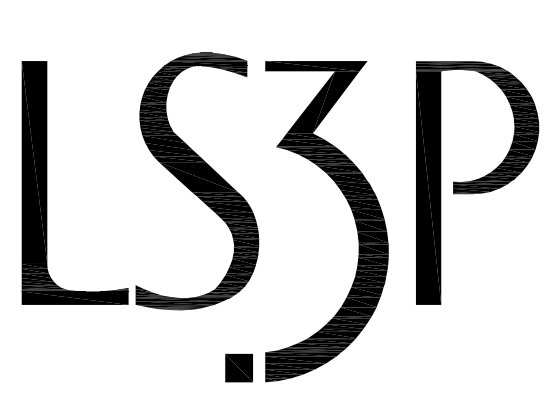
APPROVED CONSTRUCTION PLAN

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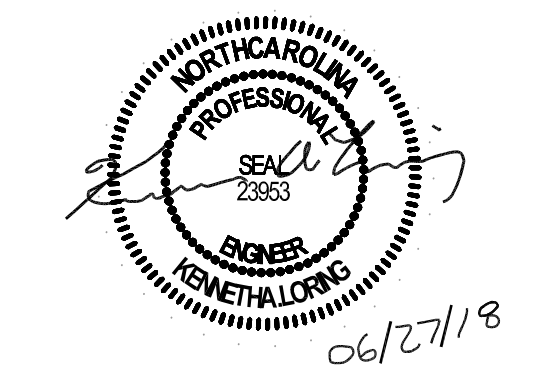
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APPROVED STORMWATER MANAGEMENT PLAN
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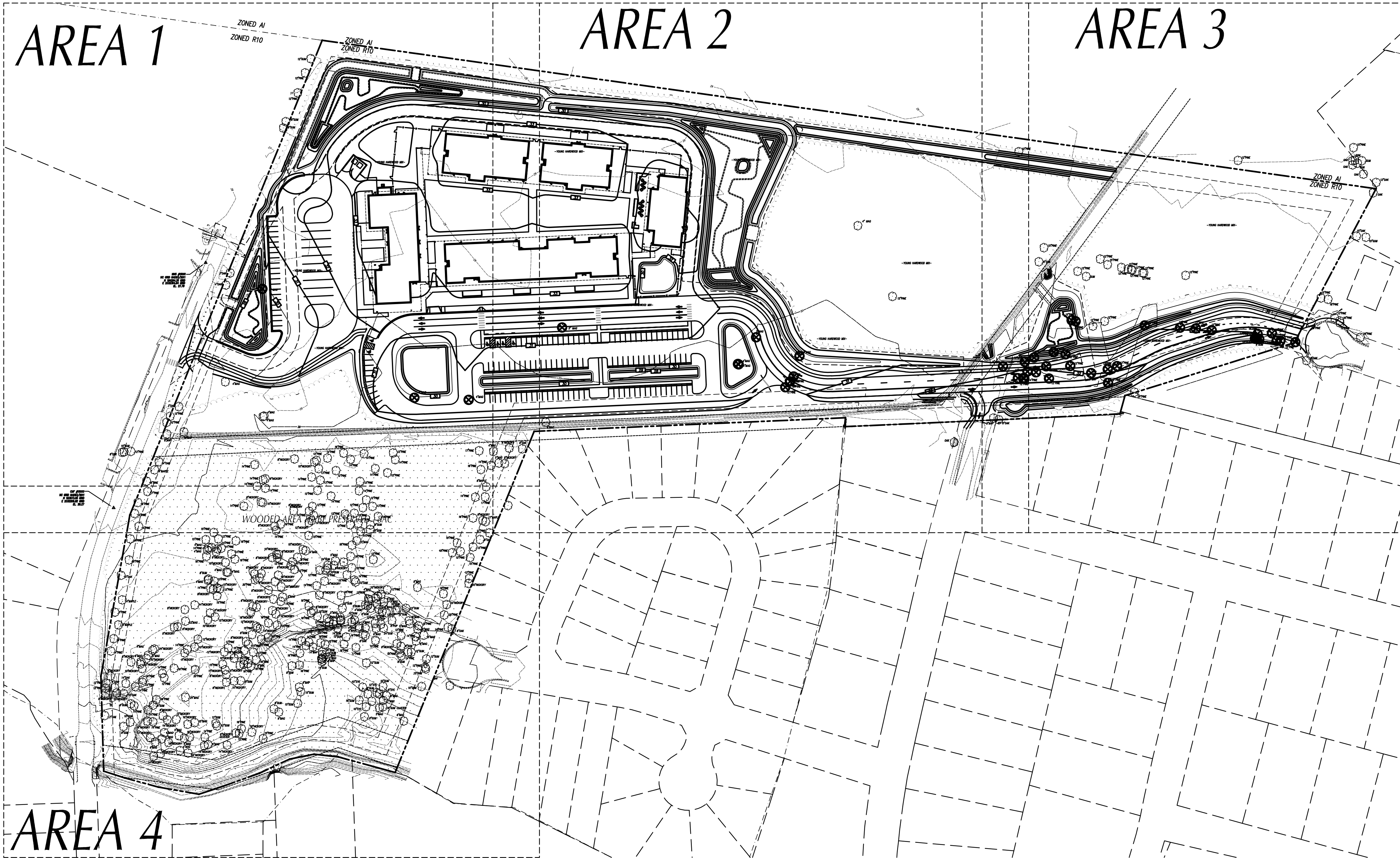
No.	Description	Date
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B	PERMIT SET	04/24/2018
C	BIDDING CLARIFICATIONS	05/04/2018
D	EARLY GRADING	06/01/2018

PROJECT: 7201-169350/ (CLH:17-140)
DATE: JUNE 26, 2018
DRAWN BY: ST, GSH, YLA, DL
CHECKED BY: CLH, GSH, ZRP

EXISTING CONDITIONS AND DEMOLITION PLAN - AREA 4

C-204

PERMIT SET



NO SIGNIFICANT TREES TO BE REMOVED ON SITE

NOTE: PLANS ARE IN COMPLIANCE WITH THE FOLLOWING REQUIREMENT (Section 18-457):
 15 TREES AT LEAST 2" DBH ARE TO BE RETAINED ON SITE PER DISTURBED ACRE. SEE CHART BELOW.

EXISTING TREES RETAINED:		
SIZE	QTY.	TOTAL
2-5" CALIPER	346	346*
6-11"	2	2
12-17"	1	1
18-23"	N/A	N/A
>24"	N/A	N/A
TOTAL:		349

*Minimum--many trees may actually be of a larger size. Not labeled on tree survey.

** PER INITIAL TRC MEETING, 8 ACRES OF EXISTING WOODED AREA AREA IS BEING PRESERVED. NO FIELDS OR STRUCTURES WILL BE PLACED IN THIS AREA AND THE TREES SHALL BE PRESERVED.

15 TREES 2" CALIPER OR GREATER PER ACRE OF DISTURBED LAND
 ACRES DISTURBED: 14.6 CREDITS REQUIRED: 219 CREDITS

EXISTING TREES SAVED 349 TREES

REGULATED TREES REMOVED:

- Loblolly Pines (19) - 12" DBH
- Loblolly Pines (2) - 18" DBH
- Loblolly Pines (4) - 14" DBH
- Loblolly Pine (1) - 13" DBH
- Southern Magnolia (4) - 4" DBH
- Southern Magnolia (3) - 5" DBH
- Southern Magnolia (1) - 6" DBH
- Sweetgum (1) - 8" DBH
- Sweetgum (1) - 10" DBH
- Maple (3) - 8" DBH
- Maple (1) - 9" DBH
- Maple (1) - 10" DBH
- Loblolly pines (4) - 15" DBH

MITIGATION EXEMPTIONS

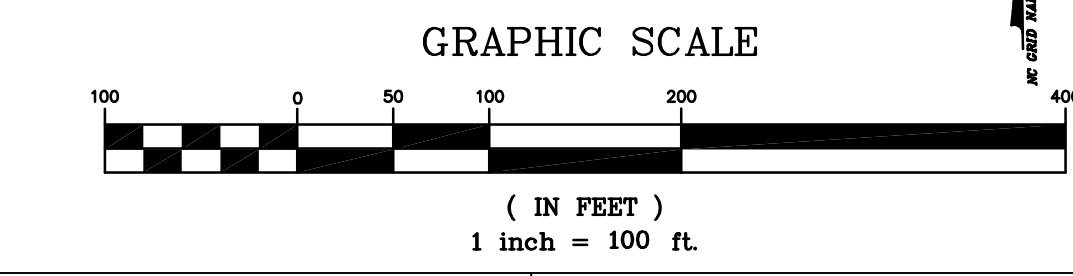
- UDO SEC. 12-46(A,B,C):
- PROTECTED TREES REMOVED WITHIN THE FOOTPRINT OF THE LOT COVERAGE ARE EXEMPT FROM MITIGATION, PROVIDED THE TOTAL BUILDING FOOTPRINT DOES NOT EXCEED TWENTY-FIVE(25) PERCENT OF THE TOTAL LOT AREA, AND PROVIDED THAT THE APPLICANT HAS DESIGNED AROUND TREES IN ORDER TO RETAIN AS MANY TREES AS PRACTICABLE.
 - REGULATED TREES REMOVED WITHIN THE AREA OF DISTURBANCE NECESSARY FOR ESSENTIAL SITE IMPROVEMENTS ARE EXEMPT FROM MITIGATION, PROVIDED THE APPLICANT HAS DESIGNED AROUND TREES IN ORDER TO RETAIN AS MANY TREES AS PRACTICABLE.
 - PROTECTED TREES THAT ARE REMOVED BY SPADING THE TREES AND PLANTED ELSEWHERE ON THE SITE ARE EXEMPT FROM MITIGATION. ADDITIONALLY, PROTECTED TREES THAT ARE REMOVED BY SPADING AND ACCEPTED BY THE CITY FOR PLANTING ON PUBLIC PROPERTY AT THE LOCATION DESIGNATED BY THE CITY MANAGER ARE EXEMPT FROM MITIGATION. ANY TREE THAT HAS BEEN TRANSPLANTED FOR THE PURPOSE OF THIS SECTION AND THAT BECOMES DISEASED OR DIES WITHIN THREE (3) YEARS OF TRANSPLANTING SHALL BE REPLANTED BY THE PARTY REQUESTING THE EXEMPTION WITH A TREE OF THE SAME SPECIES AND SIZE OR MITIGATED PURSUANT TO THIS ARTICLE.

APPROVED CONSTRUCTION PLAN

NAME	DATE
PLANNING _____	
TRAFFIC _____	
FIRE _____	

NOTE: A VARIANCE HAS BEEN REQUESTED FROM CITY OF WILMINGTON ENGINEERING REGARDING THE 500'/800' RULE IN CHAPTER VI, C(4), PG. 7-15 TO 7-16 CoWTSSM.

CITY OF WILMINGTON
 NORTH CAROLINA
 Public Services • Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN
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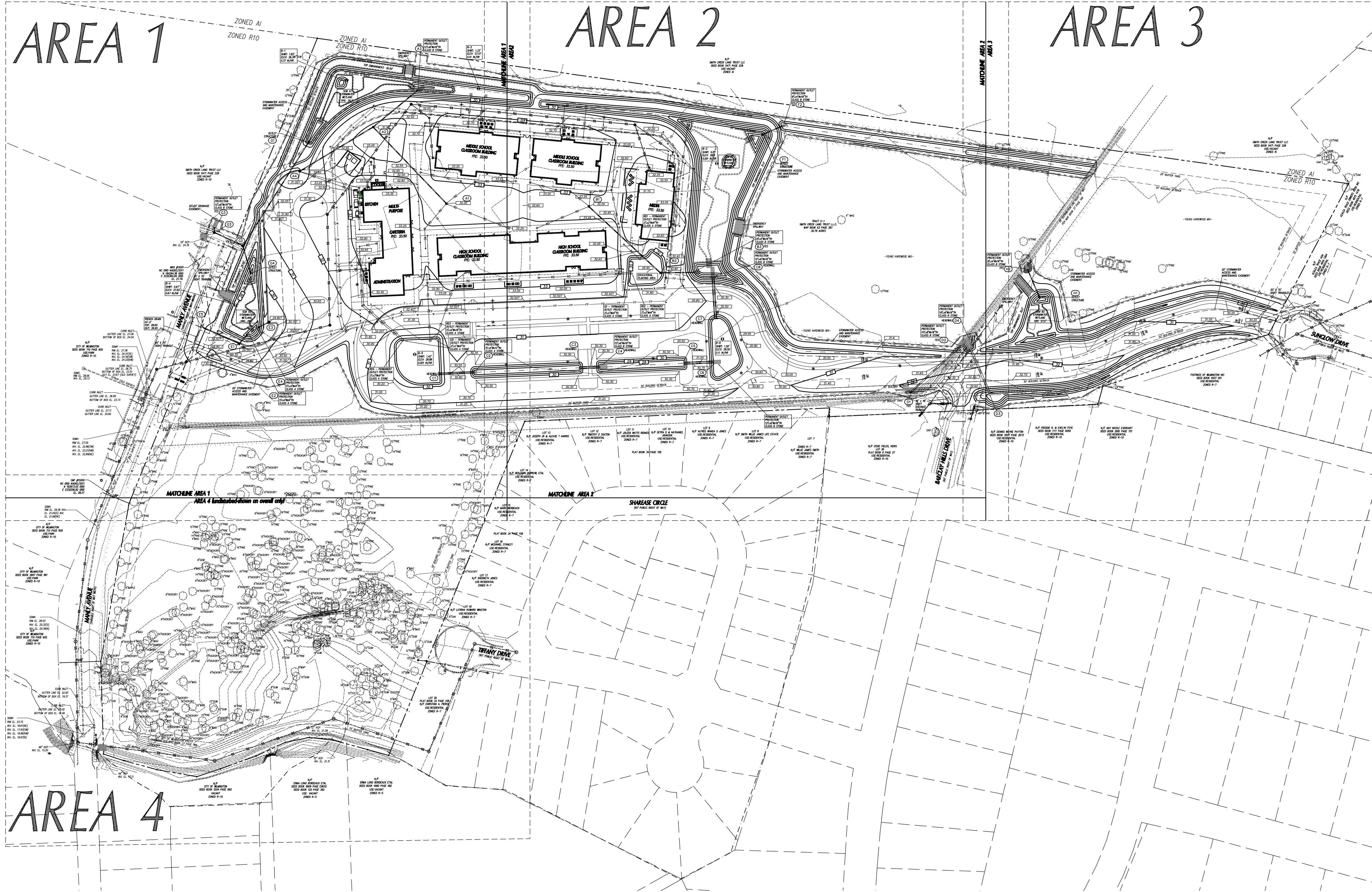
PROJECT: 7201-169350/ (CLH:17-140)
 DATE: JUNE 26, 2018
 DRAWN BY: ST, GSH, YLA, DL
 CHECKED BY: CLH, GSH, ZRP

TREE DEMOLITION AND SITE PLAN

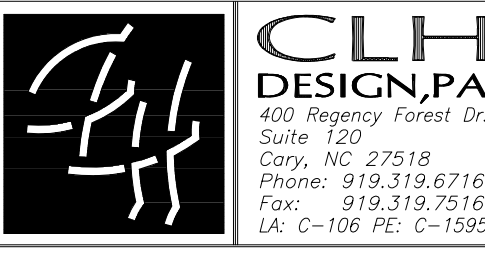
C-205

PERMIT SET

OVERALL PLAN FOR REFERENCE ONLY. PLEASE SEE ENLARGED 40 SCALE SHEETS.



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OVERALL GRADING PLAN

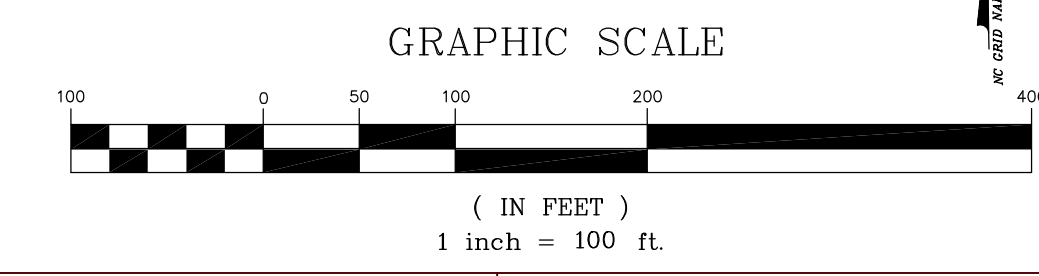
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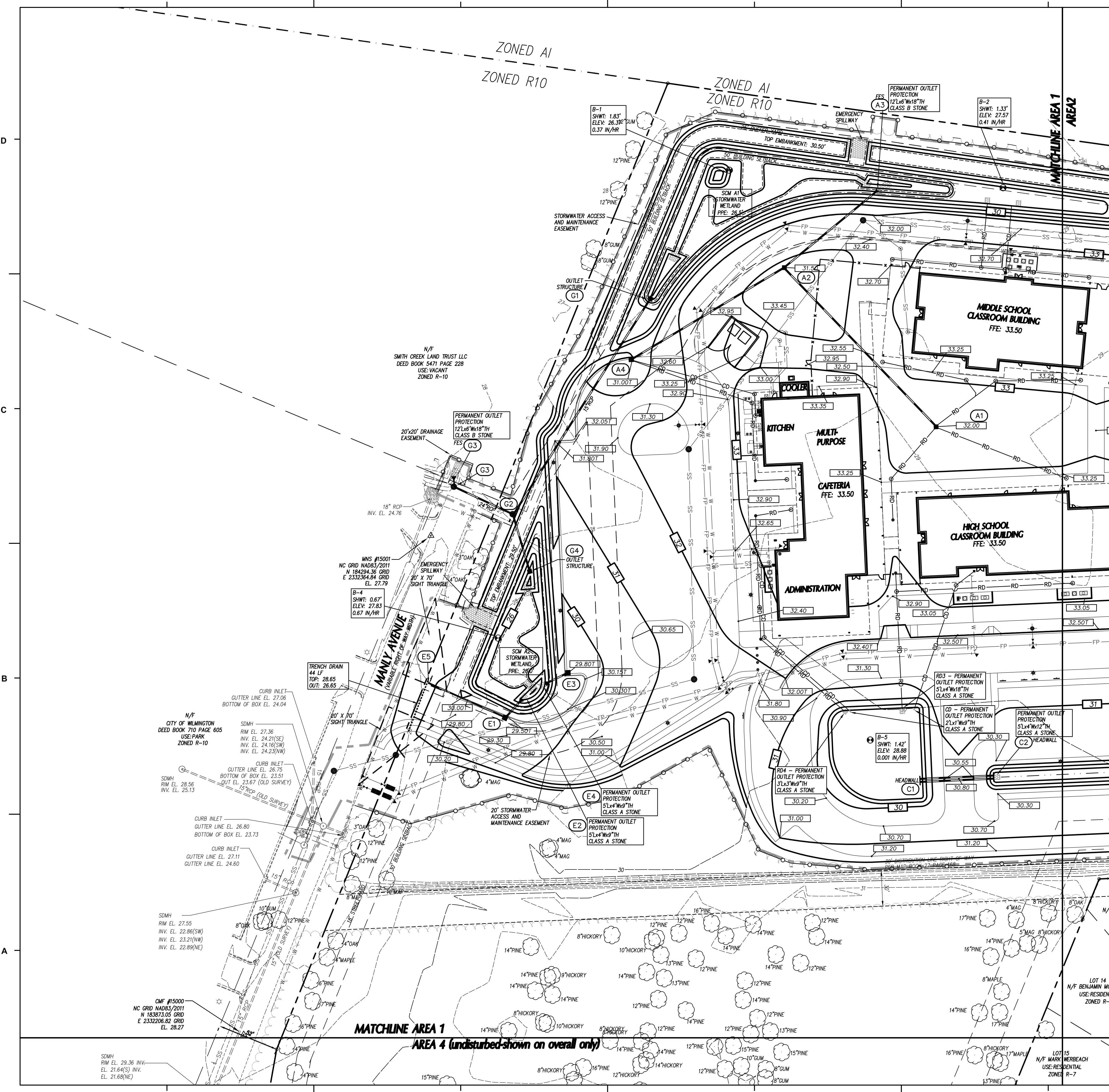
APPROVED CONSTRUCTION PLAN

NAME	DATE
PLANNING _____	_____
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FIRE _____	_____

NOTE: A VARIANCE HAS BEEN REQUESTED FROM CITY OF WILMINGTON ENGINEERING REGARDING THE 500'/800' RULE BY CHAPTER VI, C(4), PG. 7-15 TO 7-16 CoWTSSM.

CITY OF WILMINGTON NORTH CAROLINA
 Public Services • Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN
 Date: _____ Permit # _____
 Signed: _____





GRADING LEGEND

- EXISTING CONTOURS
- FINAL CONTOURS
- EXISTING SURVEY SPOT ELEVATION
- PROPOSED TOP OF CURB SPOT ELEVATION
- PROPOSED GROUND/PAVEMENT ELEVATION
- STORM STRUCTURE NUMBER
- EXISTING STORM DRAIN PIPE
- PROPOSED STORM DRAIN PIPE
- TREE PROTECTION FENCE SEE DETAIL SHEET C7.1.
- CONSTRUCTION LIMITS

- ### GRADING NOTES
- ALL SPOT ELEVATIONS INDICATED AT CURB AND GUTTER ARE TO TOP OF CURB, UNLESS OTHERWISE SHOWN.
 - TOTAL DENUDED AREA = 14.6 AC.
 - CONTRACTOR SHALL ADJUST ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. AS NEEDED TO MATCH FINISH GRADE.
 - ALL BACKFILL, COMPACTION, SOILS TESTING, ETC. SHALL BE PERFORMED BY THE OWNERS INDEPENDENT TESTING LABORATORY. (SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION)
 - ALL STORM DRAIN PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER STOPPAGE OF WORK EACH DAY.
 - EXISTING VEGETATION WITHIN TREE PROTECTION AREAS SHALL REMAIN UNDISTURBED, UNLESS NOTED OTHERWISE.
 - THE GRADING CONTRACTOR SHALL COMPLY WITH ALL STATE CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE.
 - THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY STATE AUTHORITIES OR THE ARCHITECT.
 - THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL CLEARING AND GRADING WASTE MATERIALS GENERATED DURING CONSTRUCTION AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
 - ALL ROOF DRAINS SHALL BE 6" PVC (SCH 40) @ 1.04% MIN. SLOPE UNLESS NOTED OTHERWISE. ROOF DRAINS SHALL BE DIP WHEN COVER IS LESS THAN 12 INCHES. PROVIDE ALL NECESSARY FITTINGS REQUIRED FOR INSTALLATION.
 - CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF ALL STORM SYSTEM PIPES AND STRUCTURES AT END OF PROJECT. SURVEY SHALL BE PERFORMED BY A NORTH CAROLINA LICENSED LAND SURVEYOR. ALL SURVEY INFORMATION MEET CURRENT CITY OF WILMINGTON AS-BUILT CHECK LIST REQUIREMENTS.

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO.	PIPE DN STRM	PIPE SLOPE	PIPE DIA. (IN)	PIPE LENGTH (LF)	PIPE MATL.	UPPER INV. (FT)	LOWER INV. (FT)	UPSTREAM STRUCTURE DATA	TYPE	NOTES
A1	A2	0.54%	18	186	RCP	29.00	28.00	32.00	3.00	DI
A2	A3	0.59%	24	102	RCP	26.60	26.00	31.50	4.90	DI
A4	A2	0.53%	15	150	RCP	27.50	26.70	31.00	3.50	CB
B1	B2	0.94%	18	171	RCP	29.00	27.40	32.00	3.00	DI
B2	B3	1.02%	18	59	RCP	27.30	26.70	30.40	3.10	DI
C1	C2	0.42%	15	60	[2] RCP	27.95	27.70	30.55	2.60	HOWL
C3	C4	0.56%	24	36	[2] RCP	27.60	27.40	30.30	2.70	HOWL
C5	C6	0.40%	24	54	[2] RCP	27.30	27.05	30.75	3.45	HOWL
C7	C8	0.56%	24	72	[2] RCP	26.90	26.50	30.50	3.60	HOWL
D1	D2	0.33%	30	120	RCP	27.20	26.80	32.00	4.80	FES
D3	D4	0.51%	36	78	RCP	27.20	26.80	32.00	4.80	HOWL
E1	E2	1.00%	15	20	RCP	26.00	25.80	29.50	3.50	CB
E3	E4	0.95%	15	21	RCP	26.30	26.10	29.80	3.50	CB
E5	E1	0.79%	6	70	PVC	26.65	26.10	28.65	2.00	TRENCH DRAIN
F1	F2	0.50%	15	36	RCP	26.70	26.52	29.92	3.22	SCM OUTLET
G1	G2	0.50%	15	214	RCP	26.50	25.44	29.92	3.42	SCM OUTLET
G2	G3	0.54%	24	54	RCP	25.34	25.05	28.50	3.16	MH
G3	G5	0.53%	24	8	RCP	24.95	24.90	28.50	3.55	MH
G4	G2	0.50%	15	90	RCP	25.80	25.55	29.42	3.62	SCM OUTLET
H1	H2	0.50%	15	54	RCP	27.00	26.73	29.92	2.92	SCM OUTLET

APPROVED CONSTRUCTION PLAN

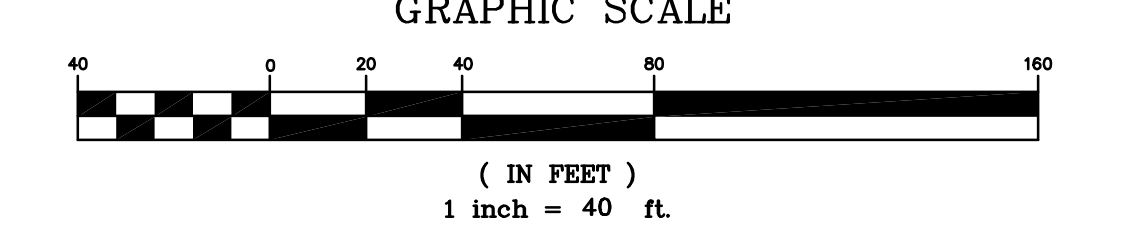
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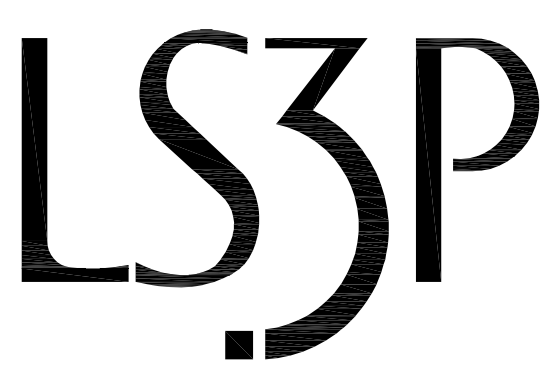
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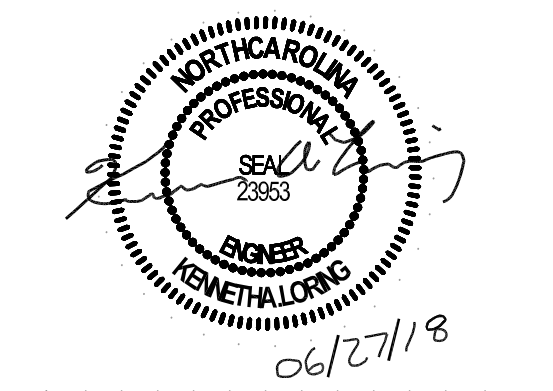
City of Wilmington North Carolina Public Services - Engineering Division APPROVED STORMWATER MANAGEMENT PLAN Date: _____ Permit # _____ Signed: _____



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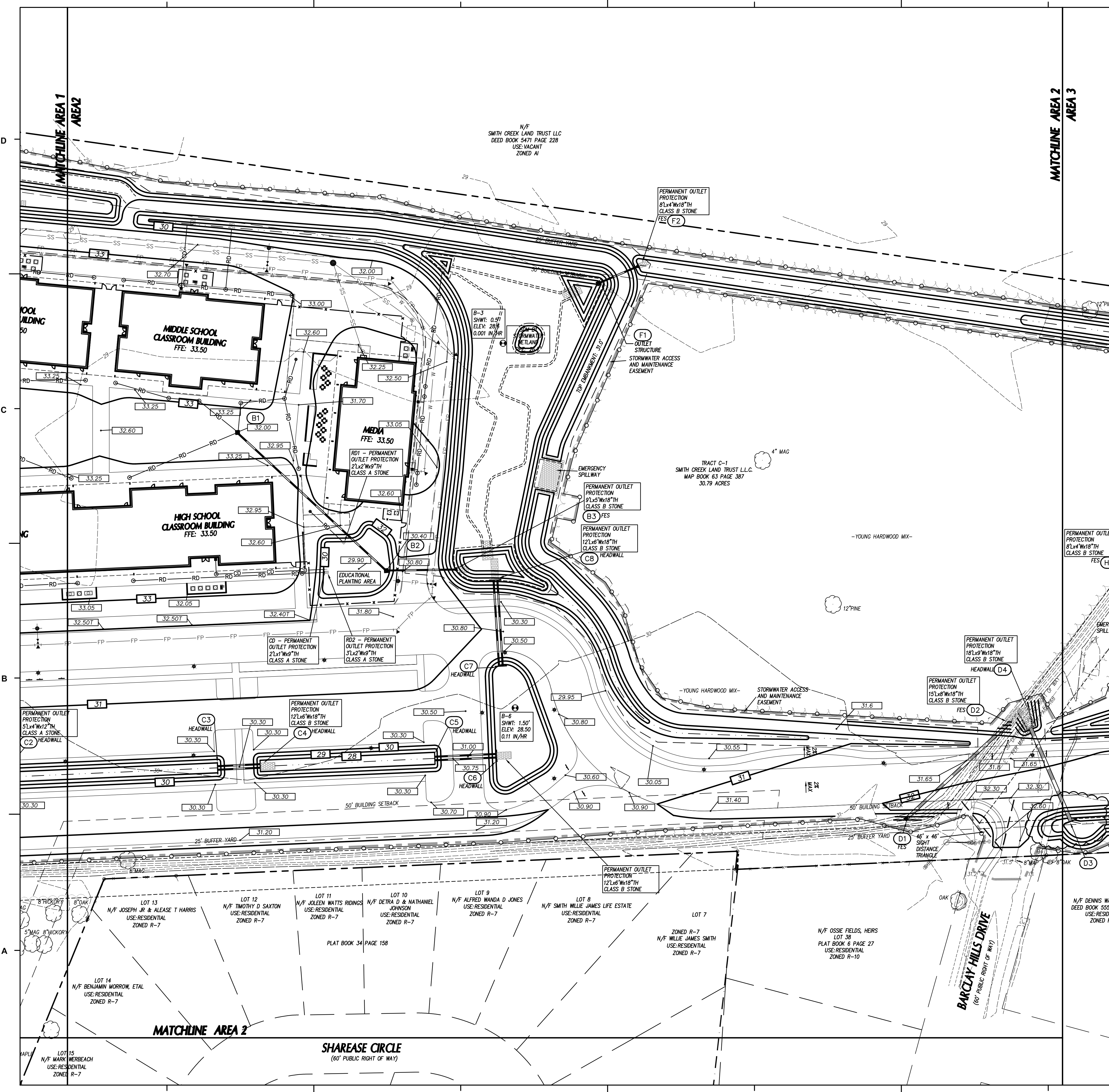
No.	Description	Date
A	80% CD/GMP SET	04/09/2018
B	PERMIT SET	04/24/2018
C	BIDDING CLARIFICATIONS	05/04/2018
D	EARLY GRADING	06/01/2018

PROJECT: 7201-169350/ (CLH:17-140)
DATE: JUNE 26, 2018
DRAWN BY: ST, GSH, YLA, DL
CHECKED BY: CLH, GSH, ZRP

GRADING PLAN- AREA 1

C-301

PERMIT SET



GRADING LEGEND

- EXISTING CONTOURS
- FINAL CONTOURS
- EXISTING SURVEY SPOT ELEVATION
- PROPOSED TOP OF CURB SPOT ELEVATION
- PROPOSED GROUND/PAVEMENT ELEVATION
- STORM STRUCTURE NUMBER
- EXISTING STORM DRAIN PIPE
- PROPOSED STORM DRAIN PIPE
- TREE PROTECTION FENCE SEE DETAIL SHEET C7.1.
- CONSTRUCTION LIMITS

- ### GRADING NOTES
- ALL SPOT ELEVATIONS INDICATED AT CURB AND GUTTER ARE TO TOP OF CURB, UNLESS OTHERWISE SHOWN.
 - TOTAL DENUDED AREA = 14.6 AC.
 - CONTRACTOR SHALL ADJUST ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. AS NEEDED TO MATCH FINISH GRADE.
 - ALL BACKFILL, COMPACTION, SOILS TESTING, ETC. SHALL BE PERFORMED BY THE OWNERS INDEPENDENT TESTING LABORATORY. (SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION)
 - ALL STORM DRAIN PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER STOPPAGE OF WORK EACH DAY.
 - EXISTING VEGETATION WITHIN TREE PROTECTION AREAS SHALL REMAIN UNDISTURBED, UNLESS NOTED OTHERWISE.
 - THE GRADING CONTRACTOR SHALL COMPLY WITH ALL STATE CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE.
 - THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY STATE AUTHORITIES OR THE ARCHITECT.
 - THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL CLEARING AND GRADING WASTE MATERIALS GENERATED DURING CONSTRUCTION AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
 - ALL ROOF DRAINS SHALL BE 6" PVC (SCH 40) @ 1.04% MIN. SLOPE UNLESS NOTED OTHERWISE. ROOF DRAINS SHALL BE DIP WHEN COVER IS LESS THAN 12 INCHES. PROVIDE ALL NECESSARY FITTINGS REQUIRED FOR INSTALLATION.
 - CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF ALL STORM SYSTEM PIPES AND STRUCTURES AT END OF PROJECT. SURVEY SHALL BE PERFORMED BY A NORTH CAROLINA LICENSED LAND SURVEYOR. ALL SURVEY INFORMATION MEET CURRENT CITY OF WILMINGTON AS-BUILT CHECK LIST REQUIREMENTS.

DRAINAGE STRUCTURE SCHEDULE

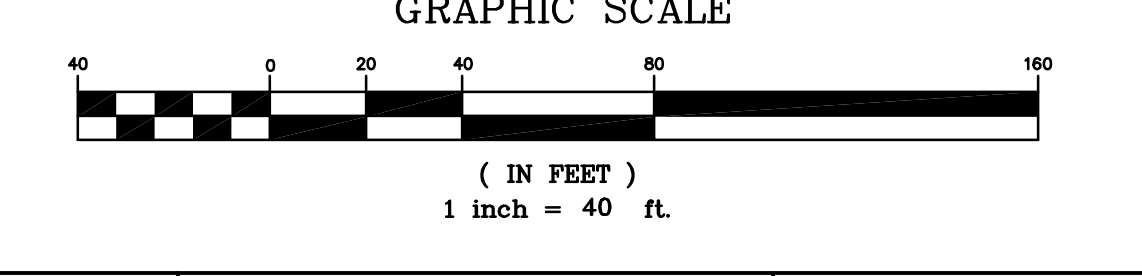
STRUCTURE NO.	PIPE DIA. (IN)	PIPE LENGTH (L.F.)	PIPE MATL.	UPPER INV. (FT)	LOWER INV. (FT)	TOP ELEV. (FT)	DEPTH (FT)	TYPE	NOTES
A1	A2	0.54%	18	RCP	29.00	28.00	32.00	3.00	DI
A2	A3	0.59%	24	RCP	26.60	26.00	31.50	4.90	DI
A4	A2	0.53%	15	RCP	27.50	26.70	31.00	3.50	CB
B1	B2	0.94%	18	RCP	29.00	27.40	32.00	3.00	DI
B2	B3	1.02%	18	RCP	27.30	26.70	30.40	3.10	DI
C1	C2	0.42%	15	[2] RCP	27.95	27.70	30.55	2.60	HOWL
C3	C4	0.96%	24	[2] RCP	27.60	27.40	30.30	2.70	HOWL
C5	C6	0.40%	24	[2] RCP	27.30	27.05	30.75	3.45	HOWL
C7	C8	0.96%	24	[2] RCP	26.90	26.50	30.50	3.60	HOWL
C9	D2	0.33%	30	RCP	27.20	26.80	32.00	4.80	FES
D1	D4	0.51%	36	RCP	27.20	26.80	32.00	4.80	HOWL
E1	E2	1.00%	15	RCP	26.00	25.80	29.50	3.50	CB
E3	E4	0.95%	15	RCP	26.30	26.10	29.80	3.50	CB
E5	E1	0.79%	6	PVC	26.65	26.10	28.65	2.00	TRENCH DRAIN
F1	F2	0.50%	15	RCP	26.70	26.52	29.92	3.22	SCM OUTLET
G1	G2	0.50%	15	RCP	26.50	25.44	29.92	3.42	SCM OUTLET
G2	G3	0.54%	24	RCP	25.34	25.05	28.50	3.16	MH
G3	G5	0.53%	24	RCP	24.95	24.90	28.50	3.55	MH
G4	G2	0.50%	15	RCP	25.80	25.55	29.42	3.62	SCM OUTLET
H1	H2	0.50%	15	RCP	27.00	26.73	29.92	2.92	SCM OUTLET

NOTE: A VARIANCE HAS BEEN REQUESTED FROM CITY OF WILMINGTON ENGINEERING REGARDING THE 500'/800' RULE IN CHAPTER VI, (4), PG. 7-15 TO 7-16 CONTINUED.

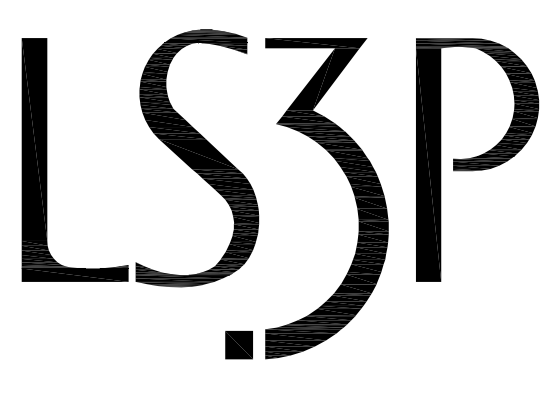
NAME	DATE
PLANNING	
TRAFFIC	
FIRE	

APPROVED CONSTRUCTION PLAN

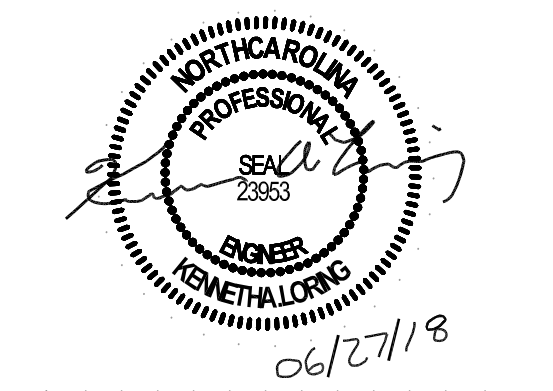
WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____



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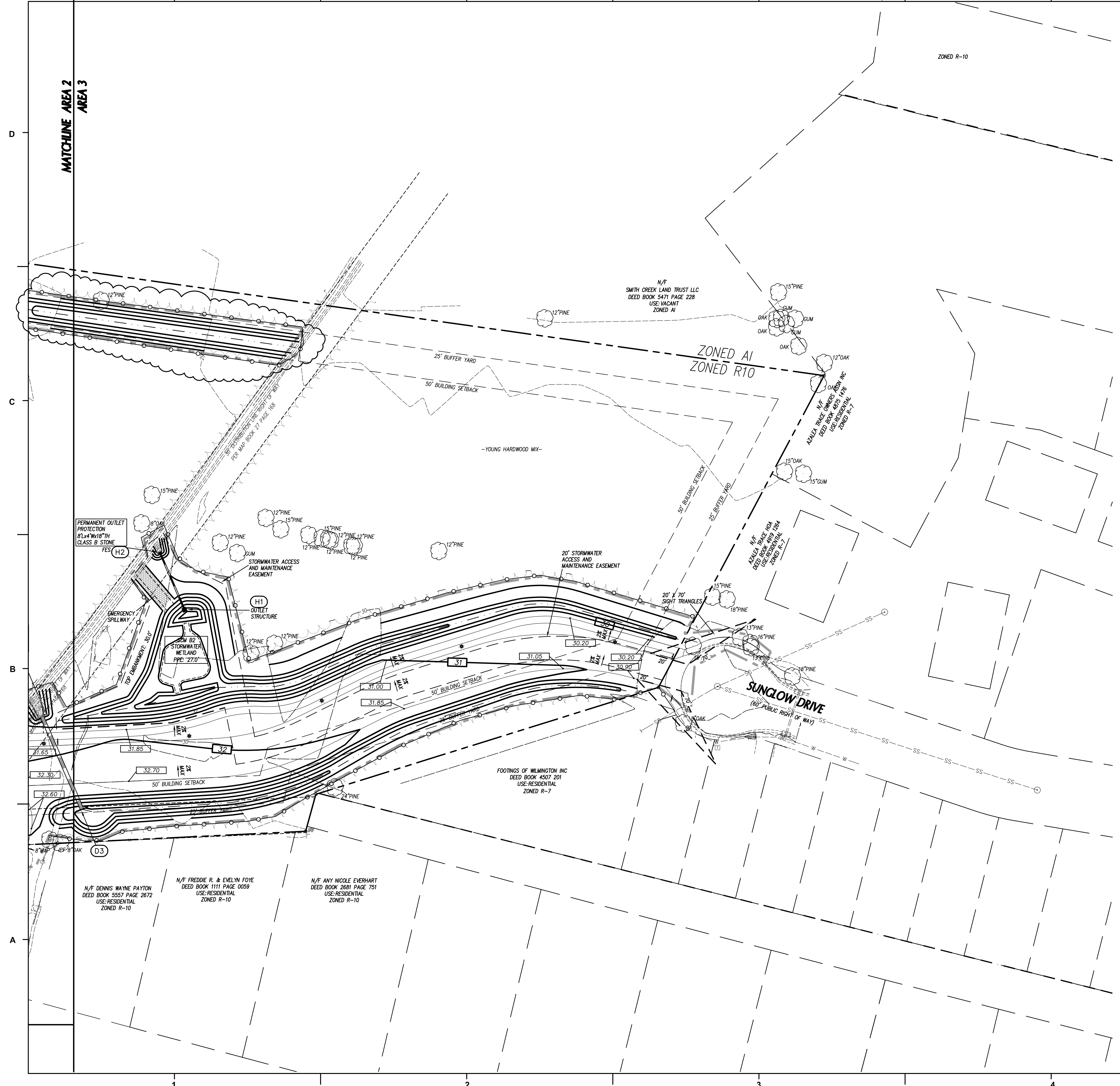
No.	Description	Date
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B	PERMIT SET	04/24/2018
C	BIDDING CLARIFICATIONS	05/04/2018
D	EARLY GRADING	06/01/2018

PROJECT: 7201-169350/ (CLH:17-140)
DATE: JUNE 26, 2018
DRAWN BY: ST, GSH, YLA, DL
CHECKED BY: CLH, GSH, ZRP

GRADING PLAN - AREA 2

C-302

PERMIT SET



GRADING LEGEND

- EXISTING CONTOURS
- FINAL CONTOURS
- 270.4' EXISTING SURVEY SPOT ELEVATION
- 270.50' PROPOSED TOP OF CURB SPOT ELEVATION
- 270.56' PROPOSED GROUND/PAVEMENT ELEVATION
- 29 STORM STRUCTURE NUMBER
- EXISTING STORM DRAIN PIPE
- PROPOSED STORM DRAIN PIPE
- TREE PROTECTION FENCE SEE DETAIL SHEET C7.1.
- CONSTRUCTION LIMITS

- ### GRADING NOTES
- ALL SPOT ELEVATIONS INDICATED AT CURB AND GUTTER ARE TO TOP OF CURB, UNLESS OTHERWISE SHOWN.
 - TOTAL DENUDE AREA = 14.6 AC.
 - CONTRACTOR SHALL ADJUST ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. AS NEEDED TO MATCH FINISH GRADE.
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 - CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF ALL STORM SYSTEM PIPES AND STRUCTURES AT END OF PROJECT. SURVEY SHALL BE PERFORMED BY A NORTH CAROLINA LICENSED LAND SURVEYOR. ALL SURVEY INFORMATION MEET CURRENT CITY OF WILMINGTON AS-BUILT CHECK LIST REQUIREMENTS.

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO.	PIPE DN STRM	PIPE SLOPE	PIPE DIA. (IN)	PIPE LENGTH (LF)	PIPE MATL	UPPER INV. (FT)	LOWER INV. (FT)	UPSTREAM STRUCTURE DATA	TYPE	NOTES
UP STRM	DN STRM							TOP ELEV (FT)(L)	DEPTH (FT)	
A1	A2	0.54%	18	186	RCP	29.00	28.00	32.00	3.00	DI
A2	A3	0.59%	24	102	RCP	26.60	26.00	31.50	4.90	DI
A4	A2	0.53%	15	150	RCP	27.50	26.70	31.00	3.50	CB
B1	B2	0.94%	18	171	RCP	29.00	27.40	32.00	3.00	DI
B2	B3	1.02%	18	59	RCP	27.30	26.70	30.40	3.10	DI
C1	C2	0.42%	15	60	[2] RCP	27.95	27.70	30.55	2.60	HOWL
C3	C4	0.56%	24	36	[2] RCP	27.60	27.40	30.30	2.70	HOWL
C5	C6	0.40%	24	54	[2] RCP	27.30	27.05	30.75	3.45	HOWL
C7	C8	0.56%	24	72	[2] RCP	26.90	26.50	30.50	3.60	HOWL
D1	D2	0.33%	30	120	RCP	27.20	26.80	32.00	4.80	FES
D3	D4	0.51%	36	78	RCP	27.20	26.80	32.00	4.80	HOWL
E1	E2	1.00%	15	20	RCP	26.00	25.80	29.50	3.50	CB
E3	E4	0.95%	15	21	RCP	26.30	26.10	29.80	3.50	CB
E5	E1	0.79%	6	70	PVC	26.65	26.10	28.65	2.00	TRENCH DRAIN
F1	F2	0.50%	15	36	RCP	26.70	26.52	29.92	3.22	SCM OUTLET
G1	G2	0.50%	15	214	RCP	26.50	25.44	29.92	3.42	SCM OUTLET
G2	G3	0.54%	24	54	RCP	25.34	25.05	28.50	3.16	MH
G3	G5	0.53%	24	8	RCP	24.95	24.90	28.50	3.55	MH
G4	G2	0.50%	15	90	RCP	25.80	25.55	29.42	3.62	SCM OUTLET
H1	H2	0.50%	15	54	RCP	27.00	26.73	29.92	2.92	SCM OUTLET

LEGEND
 CB CATCH BASIN. SEE DETAIL SHEET C07.10.
 DI DROP INLET. SEE DETAIL SHEET C07.10.
 FES RCP FLARED END SECTION. SEE DETAIL SHEET C07.10.
 HOWL HEADWALL, MCCOT STD. 338.11.
 MH MANHOLE.
 SCM SCM OUTLET.
 TRENCH DRAIN TRENCH DRAIN. SEE DETAIL SHEET C07.04.

NOTES
 1. TOP ELEVATION IS TOP OF CURB FOR CATCH BASINS, TOP OF RIM FOR MANHOLES, TOP OF GRATE FOR DROP INLETS, AND FINISH GRADE FOR CLEANOUTS.
 2. ALL FES INLETS & OUTLETS SHALL BE RCP.
 3. SEE TRENCH DRAIN DETAIL SHEET C7.04.

NOTE: A VARIANCE HAS BEEN REQUESTED FROM CITY OF WILMINGTON ENGINEERING REGARDING THE 500'/800' RULE IN CHAPTER VI, C(4), PG. 7-15 TO 7-16 COMWSSM.

APPROVED CONSTRUCTION PLAN

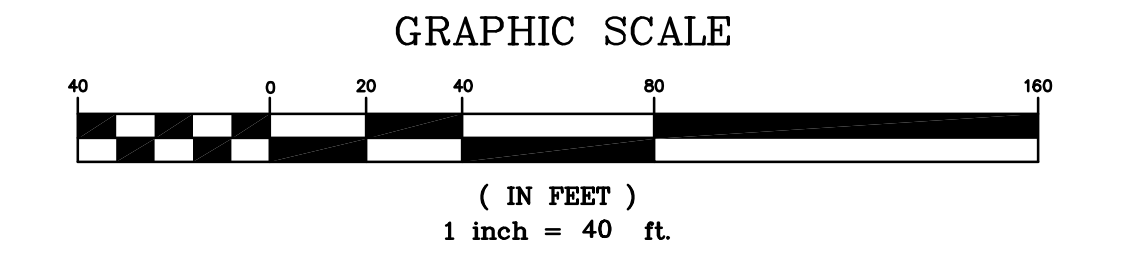
NAME: _____ DATE: _____

PLANNING: _____

TRAFFIC: _____

FIRE: _____

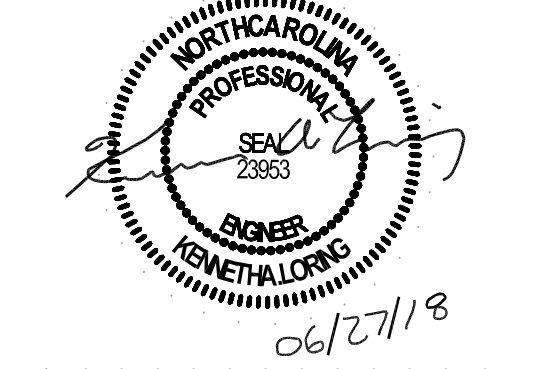
CITY OF WILMINGTON
 NORTH CAROLINA
 Public Services • Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN
 Date: _____ Permit #: _____
 Signed: _____



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PROJECT: 7201-169350/ (CLH:17-140)
 DATE: JUNE 26, 2018
 DRAWN BY: ST, GSH, YLA, DL
 CHECKED BY: CLH, GSH, ZRP

GRADING PLAN - AREA 3

C-303

PERMIT SET