

VICINITY MAP (N.T.S.)

The WMPO, NCDOT, and City of Wilmington staffs have reviewed the Glow Academy Development TIA dated February 8, 2018. This development consist of:

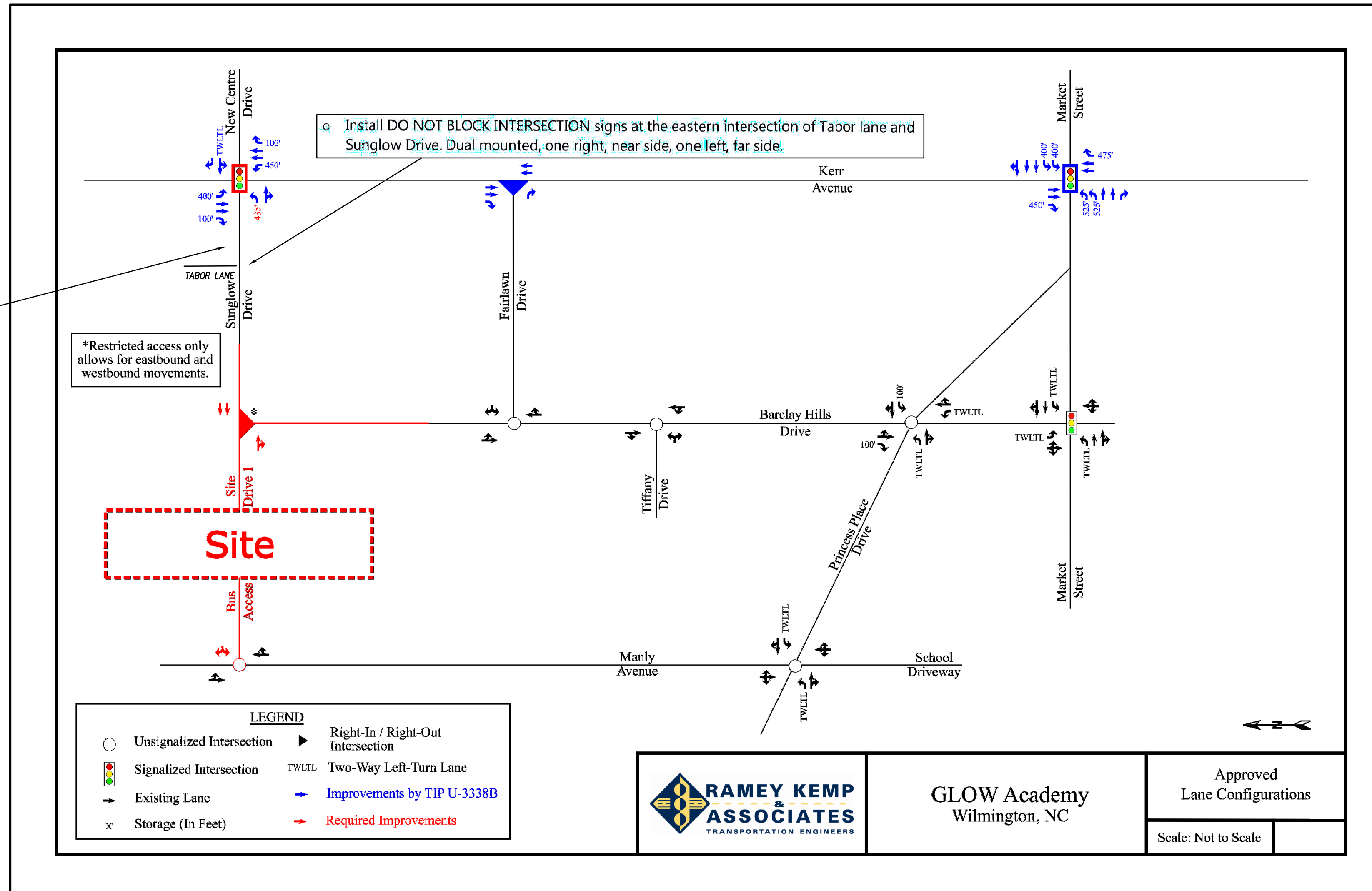
- 700 Student Charter School


The Build out year is 2019.

Based on review of the analysis provided in the TIA report, the following improvements are required by the developer:

N Kerr Avenue and Sunglow Drive

- Coordinate with NCDOT to Revise signal plans on U-3338
  - Install  $\phi$  7 protected left turn, 4 section flashing yellow arrow on Sunglow
  - Remove crosswalk and pedestrian heads on the north approach ( $\phi$ 8 Ped)
- Coordinate with the City of Wilmington
  - Restripe Sunglow Drive from the proposed stopbar constructed as part of U-3338 westward 435' to an exclusive eastbound turn bay. Install appropriate taper and island to tie to the existing centerline
  - Revise New Center to a shared through and left turn lane with exclusive right turn lane if NCDOT has not already done so as part of U-3338
  - Install DO NOT BLOCK INTERSECTION signs at the eastern intersection of Tabor lane and Sunglow Drive. Dual mounted, one right, near side, one left, far side.





**RAMEY KEMP ASSOCIATES**  
TRANSPORTATION ENGINEERS

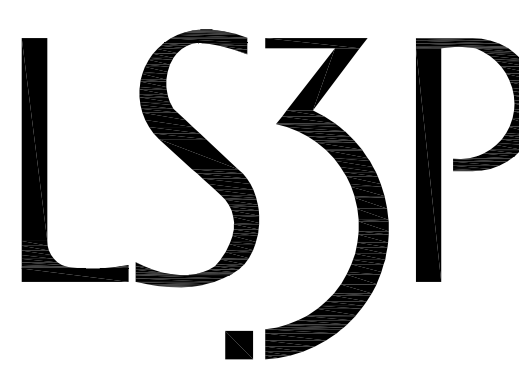
GLOW Academy  
Wilmington, NC

Approved  
Lane Configurations

Scale: Not to 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

**NOT FOR CONSTRUCTION**

MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS  
COPYRIGHT 2017 ALL RIGHTS RESERVED  
PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM LS3P ASSOCIATES LTD.

REVISIONS:

No.	Description	Date
1	Design Development	02/02/2018
2	SUP Resubmittal	02/09/2018
3	TRC Resubmittal	03/09/2018

PROJECT: 7201-169350/ (CLH:17-140)  
DATE: DEC 20 2017  
DRAWN BY: ST, GSH, YLA  
CHECKED BY: CLH, GSH, ZRP

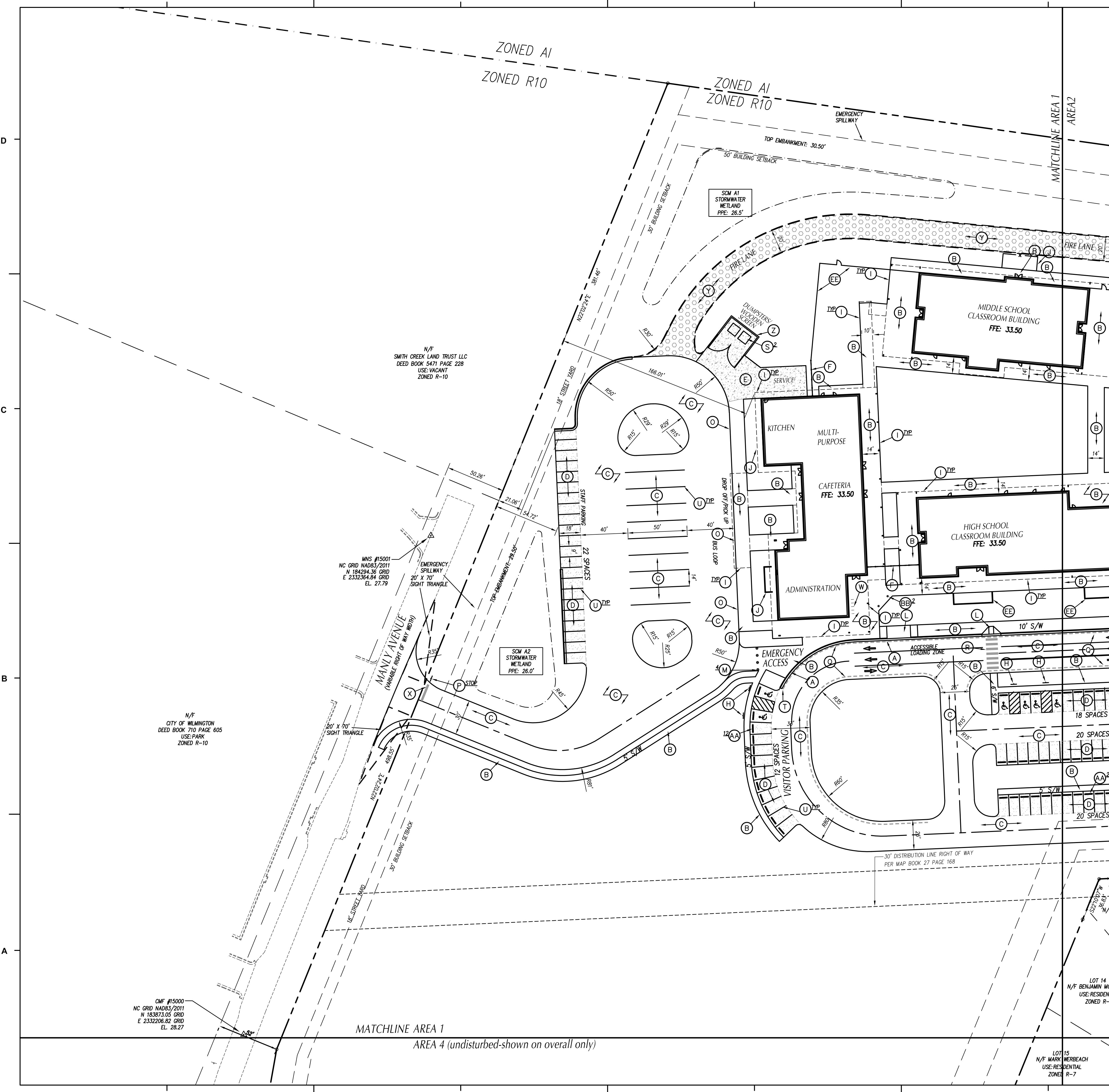
**TIA REQUIREMENTS**

**TIA-101**

**APPROVED CONSTRUCTION PLAN**

NAME _____	DATE _____
PLANNING _____	
TRAFFIC _____	
FIRE _____	

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



- 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) ORNAMENTAL FENCE AND GATE, SEE ARCHITECTURAL PLANS.
  - (G) SEAT WALL, SEE DETAIL SHEET C703.
  - (H) ACCESSIBLE PARKING SIGNAGE, SEE DETAIL SHEET C702.
  - (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) 4' TALL WOOD SCREEN FENCE
  - (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"
  2. ALL SIGNS SHALL BE MOUNTED WITH 7-FT MIN. VERTICAL CLEARANCE TO THE BOTTOM OF THE SIGN ON 2-LB. GALV. STEEL U-CHEMEL 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.	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.)
  4. ALL PAVEMENT MARKINGS SHALL BE ALKYD-RESIN TYPE PAINT PER CITY OF WILMINGTON STANDARDS.
  5. ALL SIGNAGE SHALL BE FIELD STAKED AND THE LOCATIONS APPROVED BY CLH DESIGN PRIOR TO SIGN INSTALLATION.
  6. CENTER ALL DIRECTIONAL ARROWS WITHIN TRAVEL LANE.
  7. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.

**APPROVED CONSTRUCTION PLAN**

NAME	DATE
PLANNING _____	_____
TRAFFIC _____	_____
FIRE _____	_____

Public Services • Engineering Division

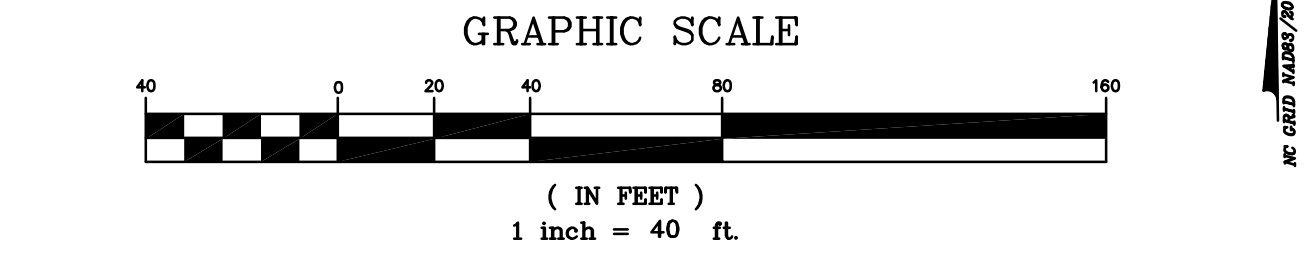
APPROVED STORMWATER MANAGEMENT PLAN

Date: \_\_\_\_\_ Permit # \_\_\_\_\_

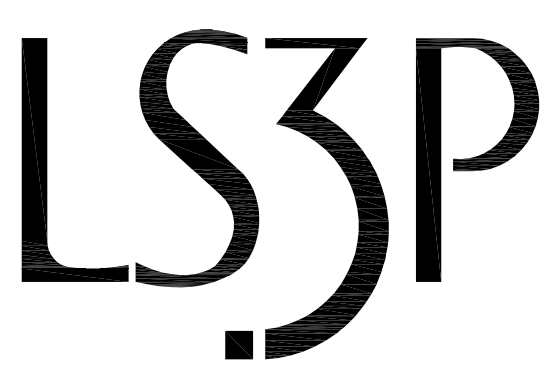
Signed: \_\_\_\_\_

LOT 14  
N/F BENJAMIN MC  
USE: RESIDEN  
ZONED R-

LOT 15  
N/F MARK WERBEACH  
USE: RESIDENTIAL  
ZONED R-7



**NEW SCHOOL BUILDING**



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



**NOT FOR CONSTRUCTION**

MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS

COPYRIGHT 2017 ALL RIGHTS RESERVED  
PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM LS3P ASSOCIATES LTD.

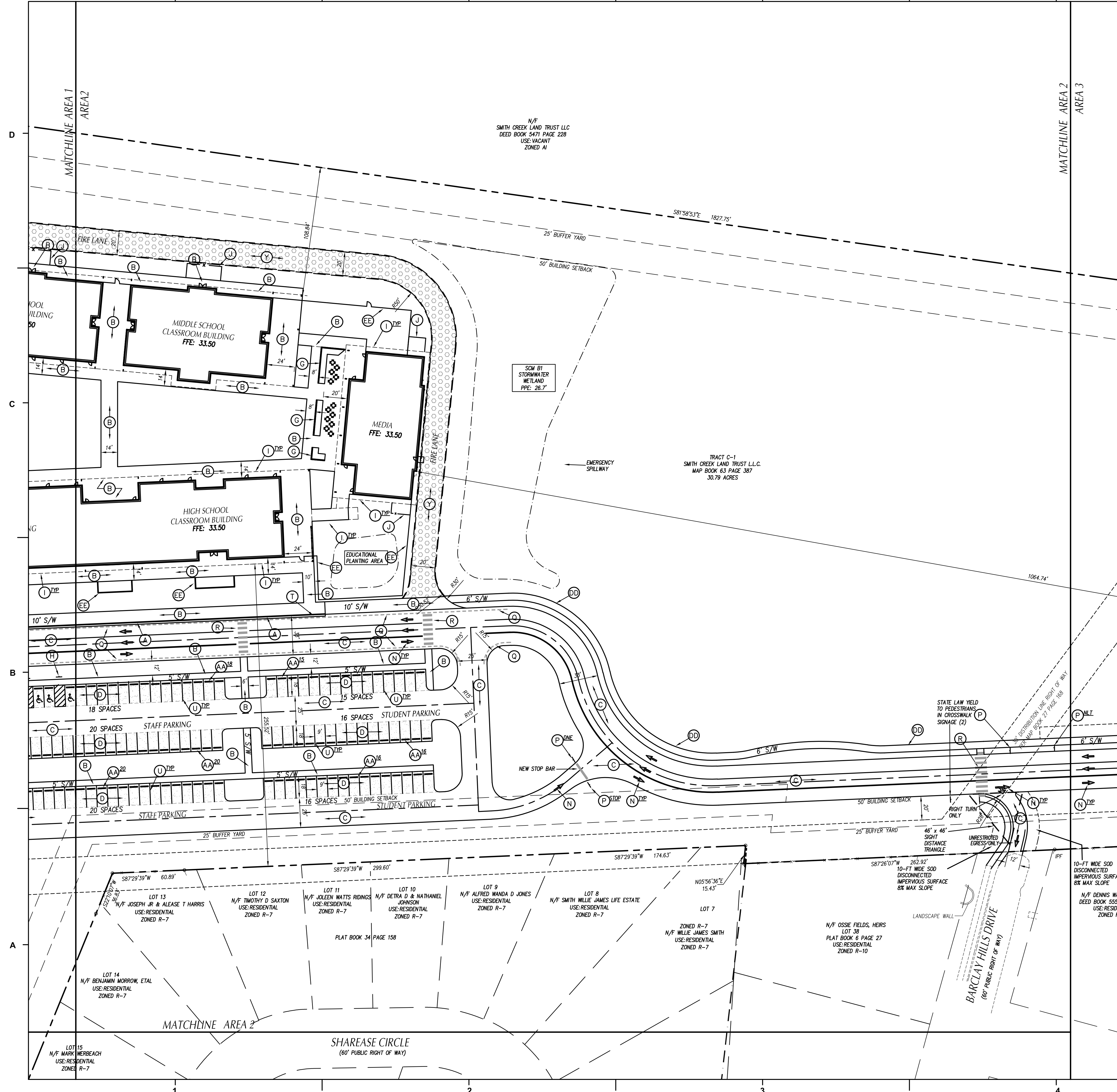
**REVISIONS:**

No.	Description	Date
1	Design Development	02/02/2018
2	SUP Resubmittal	02/09/2018
3	TRC Resubmittal	03/09/2018

PROJECT: 7201-169350/ (CLH:17-140)  
DATE: DEC 20 2017  
DRAWN BY: ST, GSH, YLA  
CHECKED BY: CLH, GSH, ZRP

**STAKING PLAN - AREA 1**

C-101



- ### 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) ORNAMENTAL FENCE AND GATE, SEE ARCHITECTURAL PLANS.
  - (G) SEAT WALL, SEE DETAIL SHEET C703.
  - (H) ACCESSIBLE PARKING SIGNAGE, SEE DETAIL SHEET C702.
  - (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) 4' TALL WOOD SCREEN FENCE
  - (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.
 

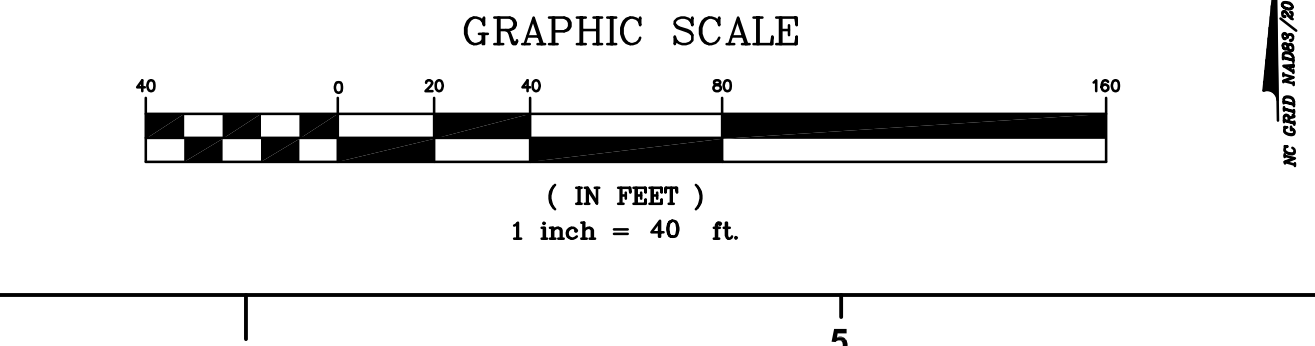
SIGN	MUTCD STD.	SIZE
STOP	R1-1	30"x30"
ONE WAY	R6-1	36"x12"
DO NOT ENTER (DNE)	R5-1	30"x30"
SCHOOL CROSSING	S1-1	36"x36"
  2. ALL SIGNS SHALL BE MOUNTED WITH 7-FT MIN. VERTICAL CLEARANCE TO THE BOTTOM OF THE SIGN ON 2-LB. GALV. STEEL U-CHANNEL POST SET IN 3-FT DEEP x 12-IN DIA. CONCRETE FOOTING.
  3. 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.	4-IN	WHT.
NO PARKING - FIRE LANE *	-	4-IN	WHT.
SOLID	1205.07(HI-VIS)	4-IN	WHT.
CROSSWALK	24-IN	24-IN	WHT.
STOP BAR	-	24-IN	WHT.
  4. ALL PAVEMENT MARKINGS SHALL BE ALKYD-RESIN TYPE PAINT PER CITY OF WILMINGTON STANDARDS.
  5. ALL SIGNAGE SHALL BE FIELD STAKED AND THE LOCATIONS APPROVED BY CLH DESIGN PRIOR TO SIGN INSTALLATION.
  6. CENTER ALL DIRECTIONAL ARROWS WITHIN TRAVEL LANE.
  7. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.

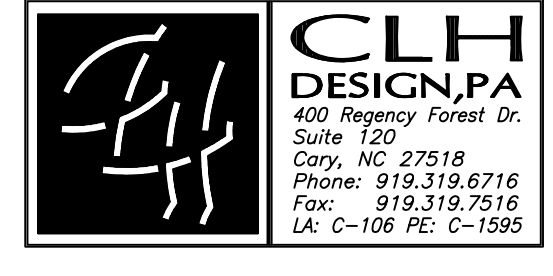
APPROVED CONSTRUCTION PLAN

NAME	DATE
PLANNING _____	_____
TRAFFIC _____	_____
FIRE _____	_____

City of WILMINGTON NORTH CAROLINA  
Public Services • Engineering Division  
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



**NOT FOR CONSTRUCTION**

MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS

COPYRIGHT 2017 ALL RIGHTS RESERVED  
PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM LS3P ASSOCIATES LTD.

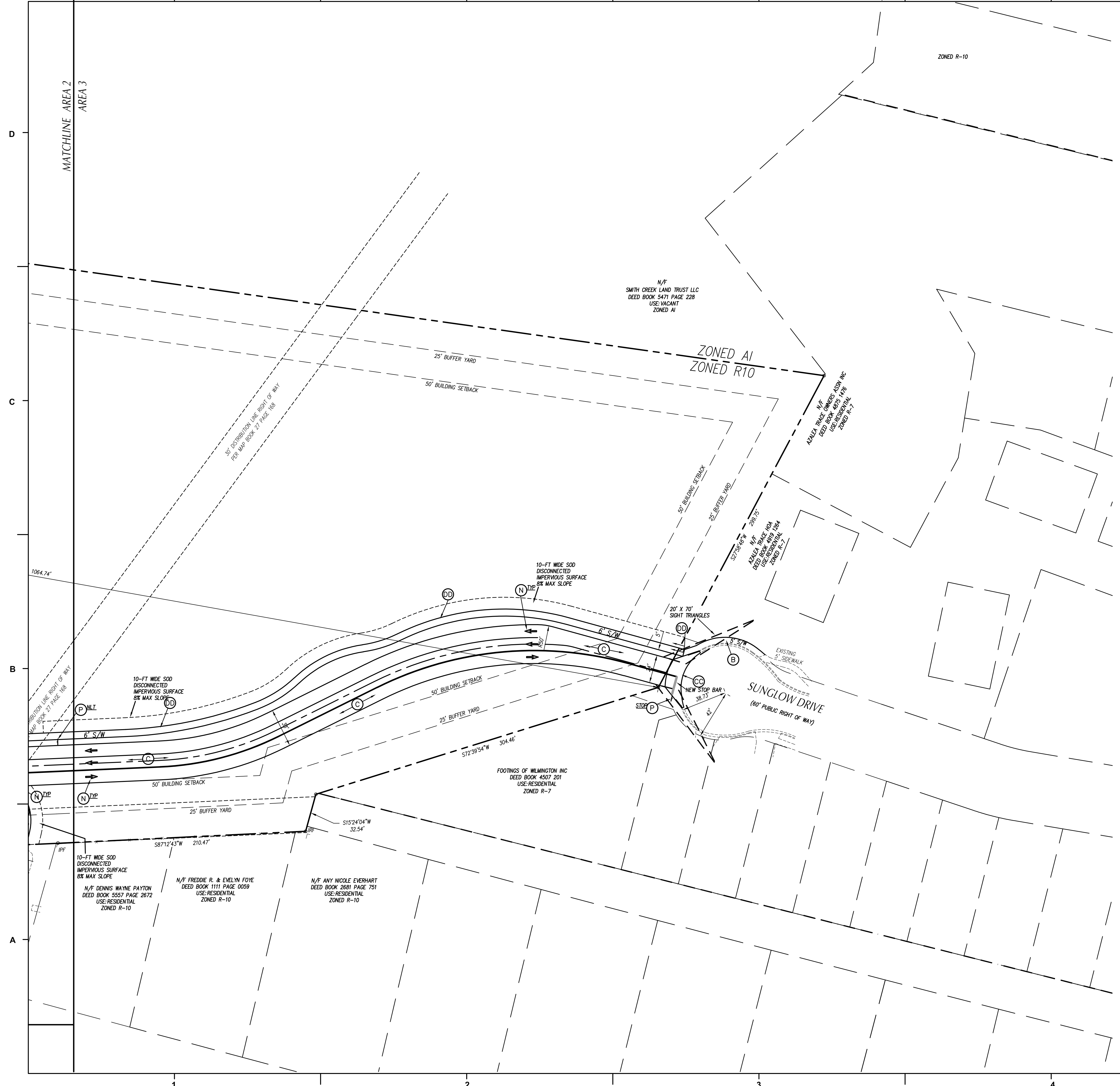
REVISIONS:

No.	Description	Date
1	Design Development	02/02/2018
2	SUP Resubmittal	02/09/2018
3	TRC Resubmittal	03/09/2018

PROJECT: 7201-169350/ (CLH:17-140)  
DATE: DEC 20 2017  
DRAWN BY: ST, GSH, YLA  
CHECKED BY: CLH, GSH, ZRP

**STAKING PLAN - AREA 2**

**C-102**



- ### 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) ORNAMENTAL FENCE AND GATE, SEE ARCHITECTURAL PLANS.
  - (G) SEAT WALL, SEE DETAIL SHEET C703.
  - (H) ACCESSIBLE PARKING SIGNAGE, SEE DETAIL SHEET C702.
  - (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) 4' TALL WOOD SCREEN FENCE
  - (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.
  - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF WILMINGTON STANDARDS AND SPECIFICATIONS.
  - 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"
  - ALL SIGNS SHALL BE MOUNTED WITH 7-FT MIN. VERTICAL CLEARANCE TO THE BOTTOM OF THE SIGN ON 2-LB. GALV. STEEL U-CHANNEL SET IN 3-FT DEEP x 12-IN DIA. CONCRETE FOOTING.
  - ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MUTCD AND NCDOT STANDARDS AND THE PROJECT SPECIFICATIONS.
 

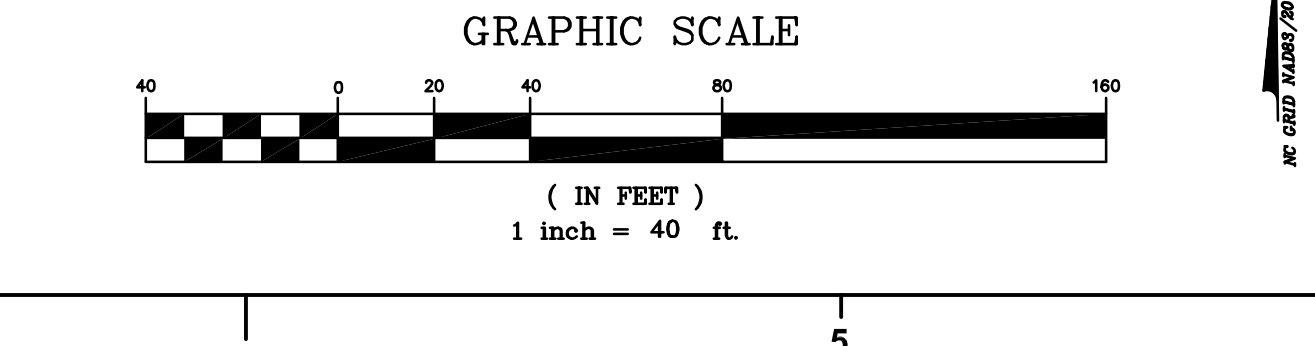
MARKING	NCDOT STD.	SIZE	COLOR
PARKING SPACE	1205.08	4-IN	WHT.
DIRECTIONAL ARROWS	-	STD.	WHT.
NO PARKING - FIRE LANE *	-	4-IN	WHT.
SOLID	-	4-IN	WHT.
CROSSWALK	1205.07(HI-VIS)	24-IN	WHT.
STOP BAR	-	24-IN	WHT.

\* 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 ALKYD-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.

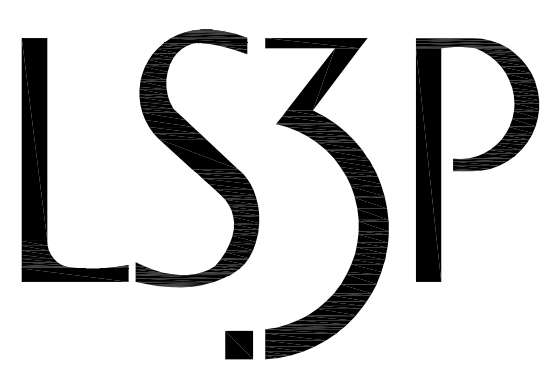
APPROVED CONSTRUCTION PLAN

NAME	DATE
PLANNING _____	_____
TRAFFIC _____	_____
FIRE _____	_____

City of WILMINGTON NORTH CAROLINA  
Public Services • Engineering Division  
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



**NOT FOR CONSTRUCTION**

MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS  
COPYRIGHT 2017 ALL RIGHTS RESERVED  
PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM LS3P ASSOCIATES LTD.

REVISIONS:

No.	Description	Date
1	Design Development	02/02/2018
2	SUP Resubmittal	02/09/2018
3	TRC Resubmittal	03/09/2018

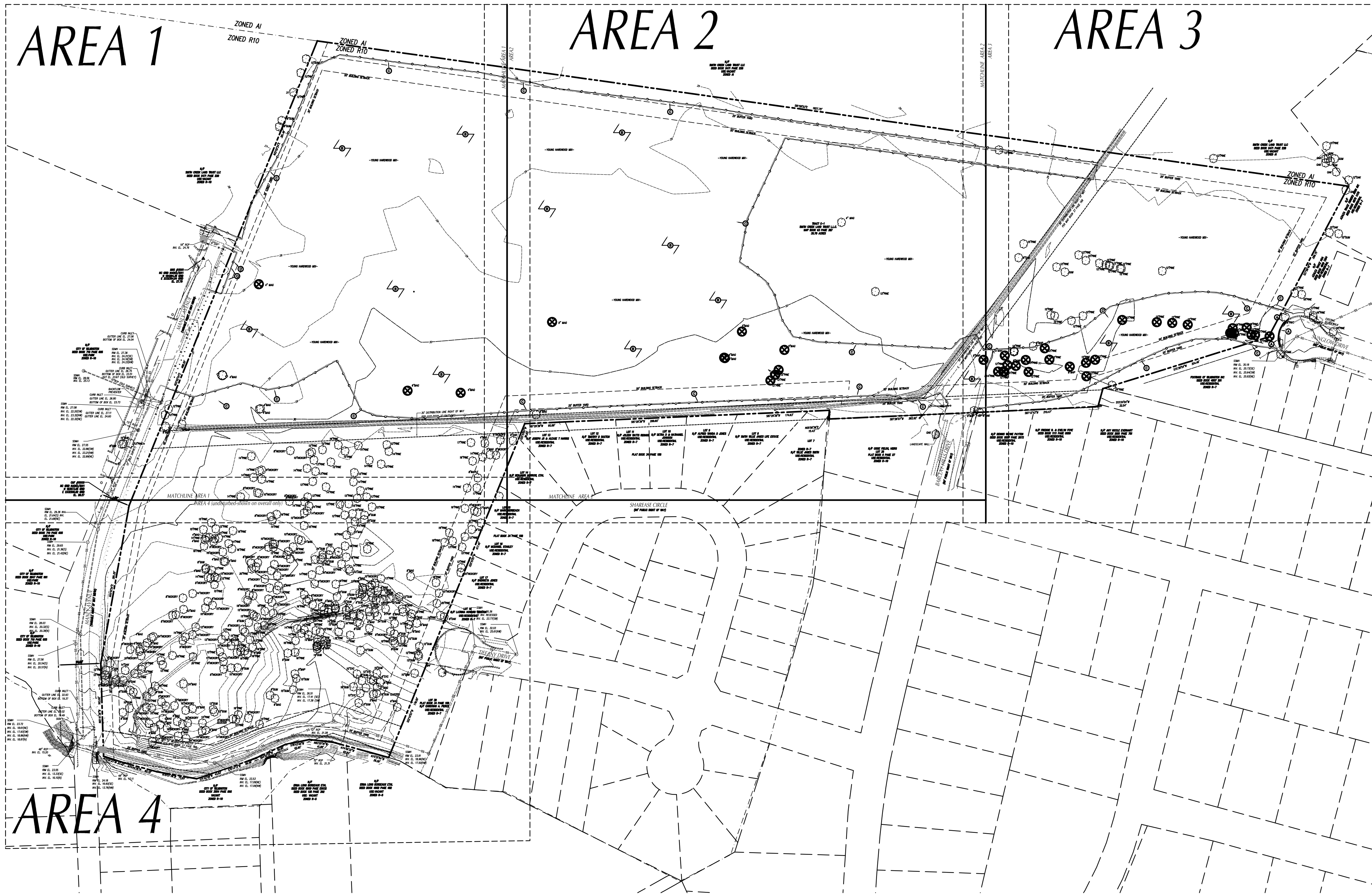
PROJECT: 7201-169350/ (CLH:17-140)  
DATE: DEC 20 2017  
DRAWN BY: ST, GSH, YLA  
CHECKED BY: CLH, GSH, ZRP

**STAKING PLAN - AREA 3**

**C-103**



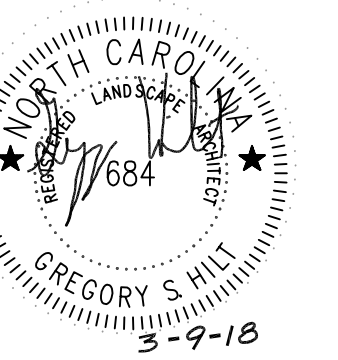
OVERALL PLAN FOR REFERENCE ONLY. PLEASE SEE ENLARGED 40 SCALE SHEETS.



**NEW SCHOOL BUILDING**



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



**NOT FOR CONSTRUCTION**

MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS

COPYRIGHT 2017 ALL RIGHTS RESERVED  
 PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM LS3P ASSOCIATES LTD.

REVISIONS:

No.	Description	Date
1	Design Development	02/02/2018
2	SUP Resubmittal	02/09/2018
3	TRC Resubmittal	03/09/2018

PROJECT: 7201-169350/ (CLH:17-140)  
 DATE: DEC 20 2017  
 DRAWN BY: ST, GSH, YLA  
 CHECKED BY: CLH, GSH, ZRP

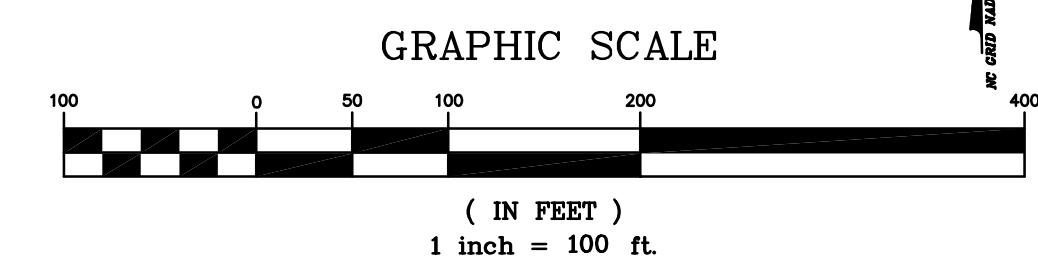
**OVERALL EXISTING CONDITIONS AND DEMOLITION PLAN**

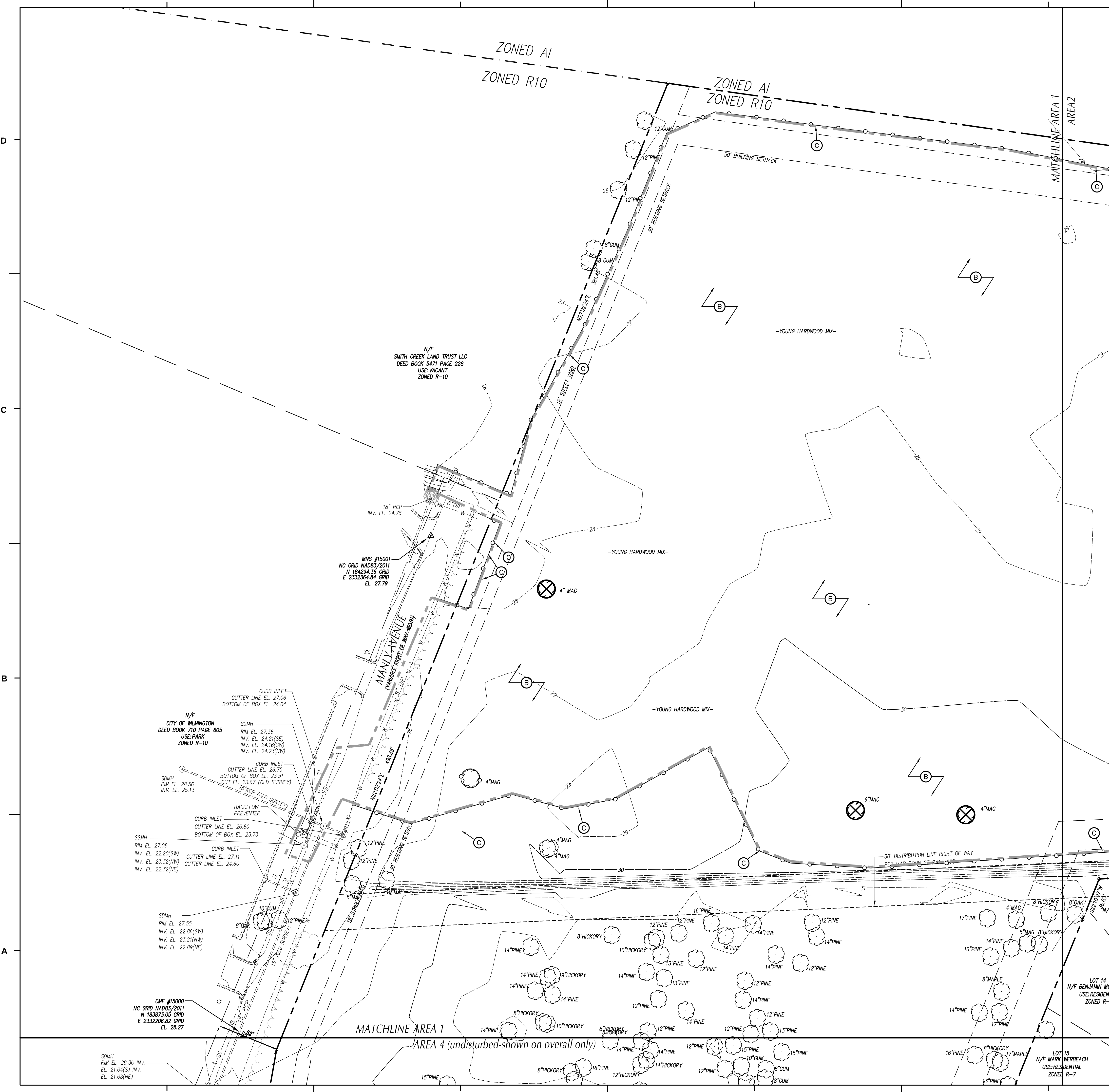
**C-200**

APPROVED CONSTRUCTION PLAN

NAME	DATE
PLANNING _____	_____
TRAFFIC _____	_____
FIRE _____	_____

City of WILMINGTON NORTH CAROLINA  
 Public Services • Engineering Division  
 APPROVED STORMWATER MANAGEMENT PLAN  
 Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_





**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					

- 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.

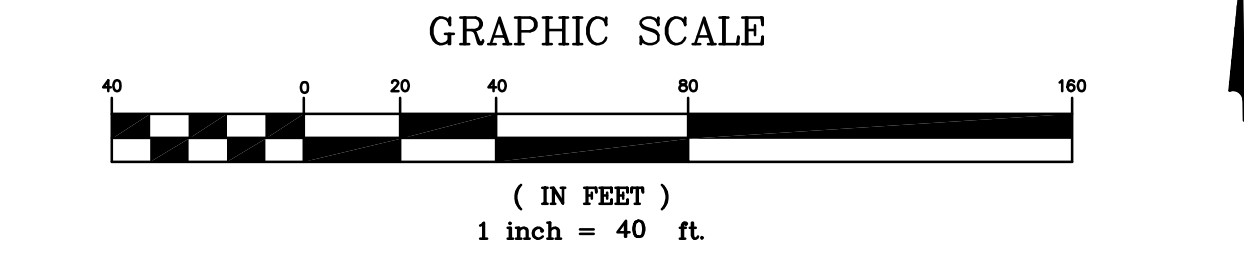
- GENERAL NOTES**
1. ALL UTILITIES OR STRUCTURES NOT INDICATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN AND BE PROTECTED FROM DAMAGE.
  2. ALL WASTE MATERIAL GENERATED FROM CLEARING AND DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
  3. 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 MATERIALS 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 THE ARCHITECT IMMEDIATELY IF UNKNOWN ELEMENTS ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE PROPOSED DESIGN.
  11. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND OSHA REGULATIONS.
  12. EXISTING MANHOLES, VALVE BOXES, VAULTS, CLEANOUTS, UTILITY POLES ETC. TO REMAIN WITHIN THE GRADING 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 MCKIM & 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.

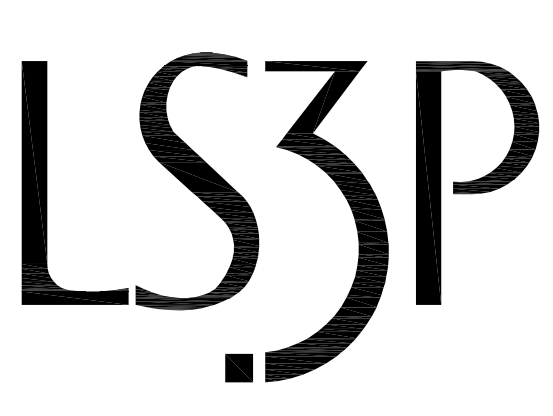
**APPROVED CONSTRUCTION PLAN**

NAME	DATE
PLANNING _____	_____
TRAFFIC _____	_____
FIRE _____	_____

City of Wilmington  
Public Services • Engineering Division  
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



**NOT FOR CONSTRUCTION**

MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS  
COPYRIGHT 2017 ALL RIGHTS RESERVED  
PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM LS3P ASSOCIATES LTD.

**REVISIONS:**

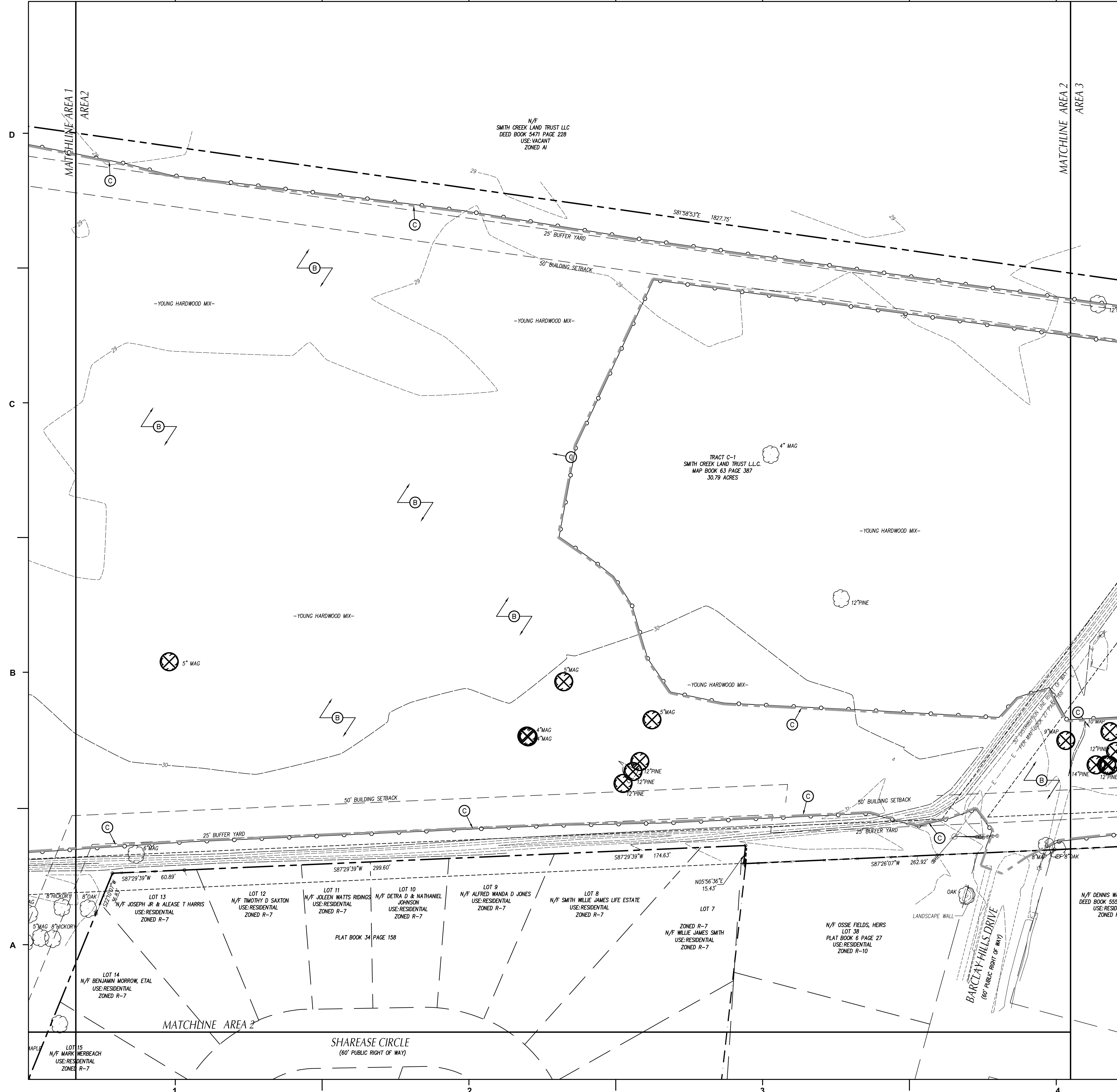
No.	Description	Date
1	Design Development	02/02/2018
2	SUP Resubmittal	02/09/2018
3	TRC Resubmittal	03/09/2018

PROJECT: 7201-169350/ (CLH:17-140)  
DATE: DEC 20 2017  
DRAWN BY: ST, GSH, YLA  
CHECKED BY: CLH, GSH, ZRP

**EXISTING CONDITIONS AND DEMOLITION PLAN - AREA 1**

**C-201**





**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	⊗				

- 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.

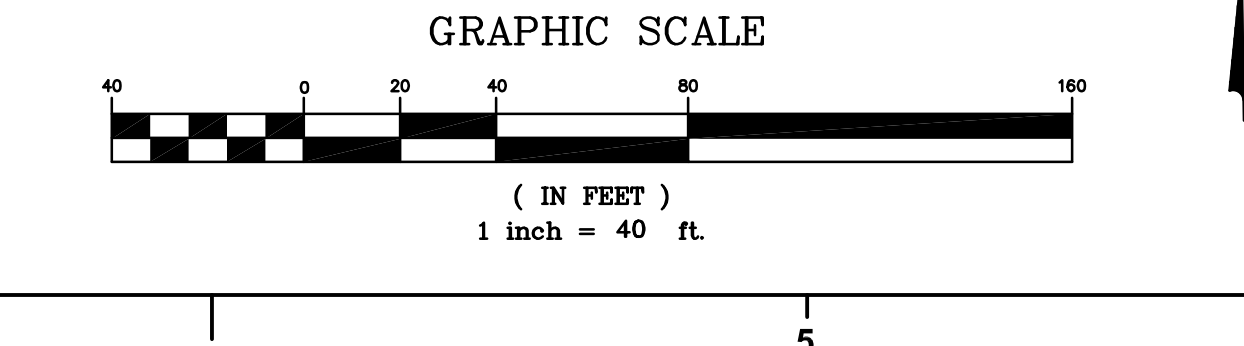
- GENERAL NOTES**
1. ALL UTILITIES OR STRUCTURES NOT INDICATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN AND BE PROTECTED FROM DAMAGE.
  2. ALL WASTE MATERIAL GENERATED FROM CLEARING AND DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
  3. 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 THE ARCHITECT IMMEDIATELY IF UNKNOWN ELEMENTS ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE PROPOSED DESIGN.
  11. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND OSHA REGULATIONS.
  12. EXISTING MANHOLES, VALVE BOXES, VAULTS, CLEANOUTS, UTILITY POLES ETC. TO REMAIN WITHIN THE GRADING 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 MCKIM & 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.

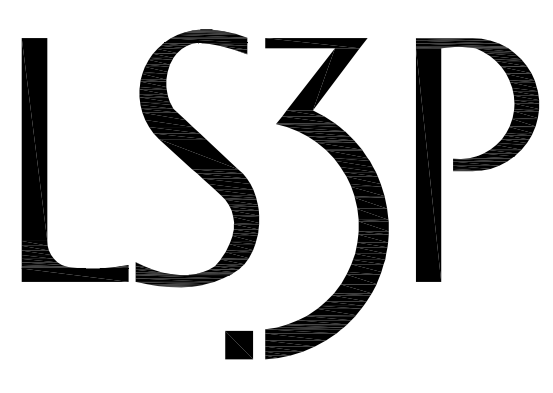
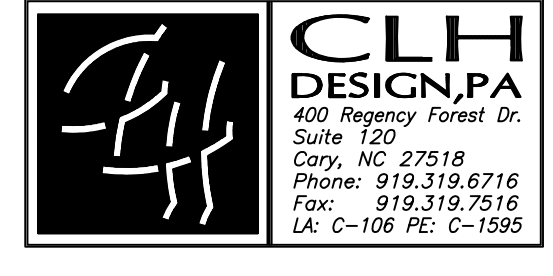
**APPROVED CONSTRUCTION PLAN**

NAME	DATE
PLANNING	
TRAFFIC	
FIRE	

City of Wilmington  
Public Services • Engineering Division  
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



**NOT FOR CONSTRUCTION**

MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS  
COPYRIGHT 2017 ALL RIGHTS RESERVED  
PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM LS3P ASSOCIATES LTD.

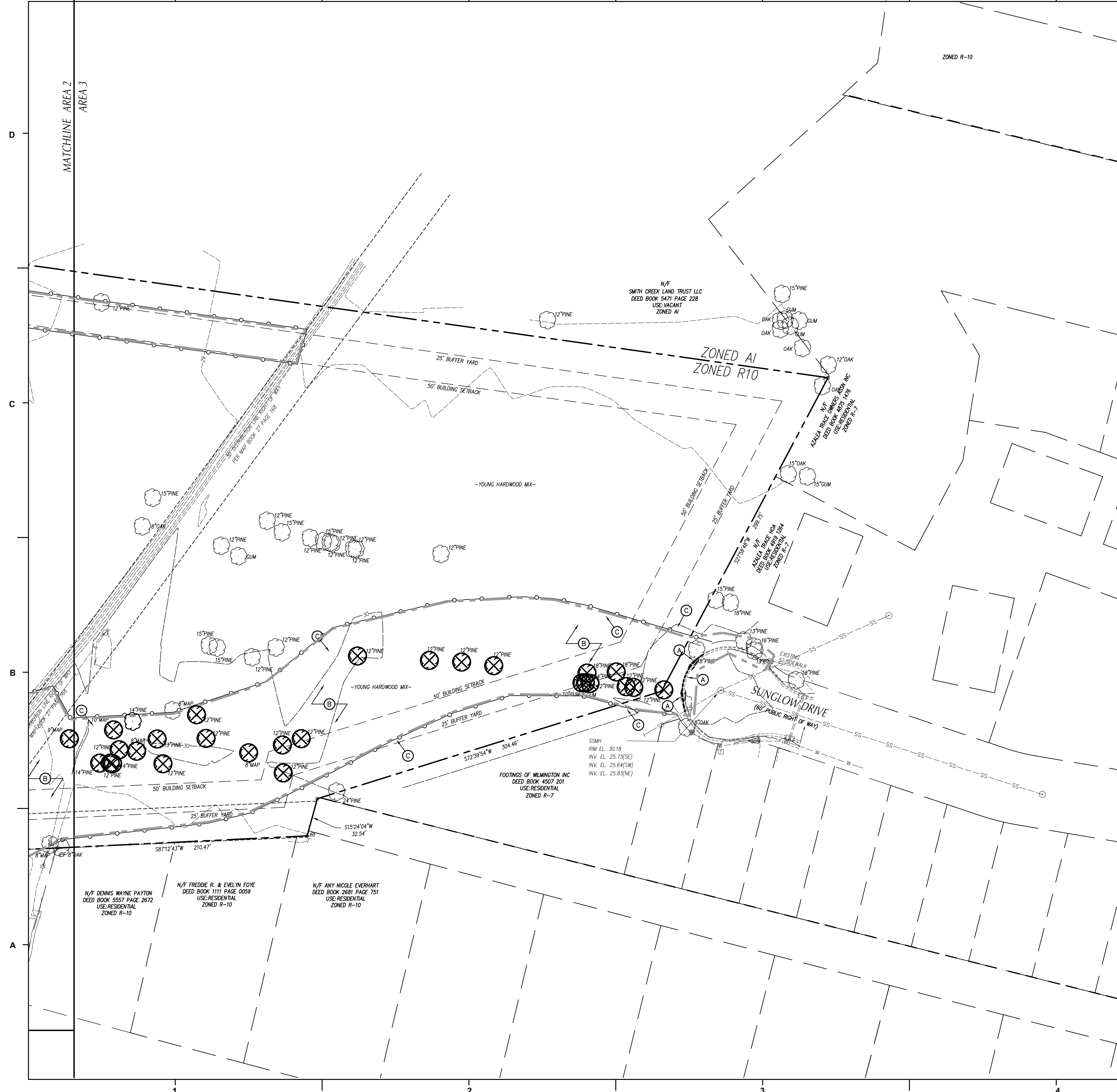
**REVISIONS:**

No.	Description	Date
1	Design Development	02/02/2018
2	SUP Resubmittal	02/09/2018
3	TRC Resubmittal	03/09/2018

PROJECT: 7201-169350/ (CLH:17-140)  
DATE: DEC 20 2017  
DRAWN BY: ST, GSH, YLA  
CHECKED BY: CLH, GSH, ZRP

**EXISTING CONDITIONS AND DEMOLITION PLAN**

**C-202**



**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	----- SD -----		
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	----- SD -----		
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.

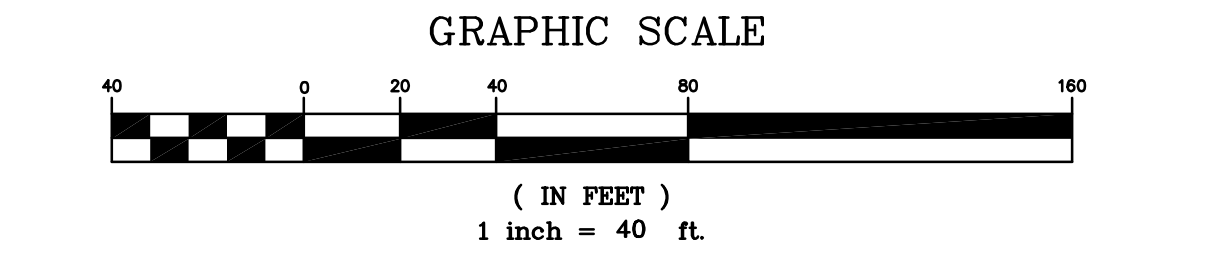
- GENERAL NOTES**
1. ALL UTILITIES OR STRUCTURES NOT INDICATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN AND BE PROTECTED FROM DAMAGE.
  2. ALL WASTE MATERIAL GENERATED FROM CLEARING AND DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
  3. 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 THE ARCHITECT IMMEDIATELY IF UNKNOWN ELEMENTS ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE PROPOSED DESIGN.
  11. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND OSHA REGULATIONS.
  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.

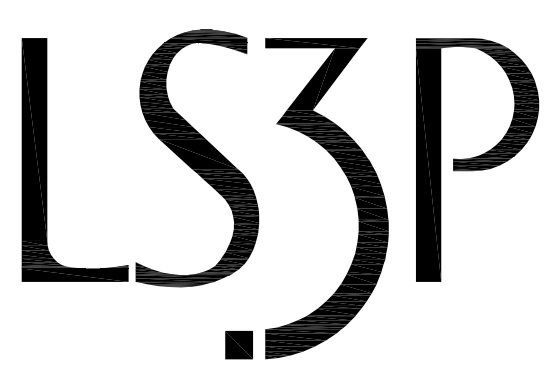
**APPROVED CONSTRUCTION PLAN**

NAME	DATE
PLANNING	
TRAFFIC	
FIRE	

City of Wilmington  
Public Services • Engineering Division  
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



**NOT FOR CONSTRUCTION**

MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS  
COPYRIGHT 2017 ALL RIGHTS RESERVED  
PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM LS3P ASSOCIATES LTD.

**REVISIONS:**

No.	Description	Date
1	Design Development	02/02/2018
2	SUP Resubmittal	02/09/2018
3	TRC Resubmittal	03/09/2018

PROJECT: 7201-169350/ (CLH:17-140)  
DATE: DEC 20 2017  
DRAWN BY: ST, GSH, YLA  
CHECKED BY: CLH, GSH, ZRP

**EXISTING CONDITIONS AND DEMOLITION PLAN - AREA 3**

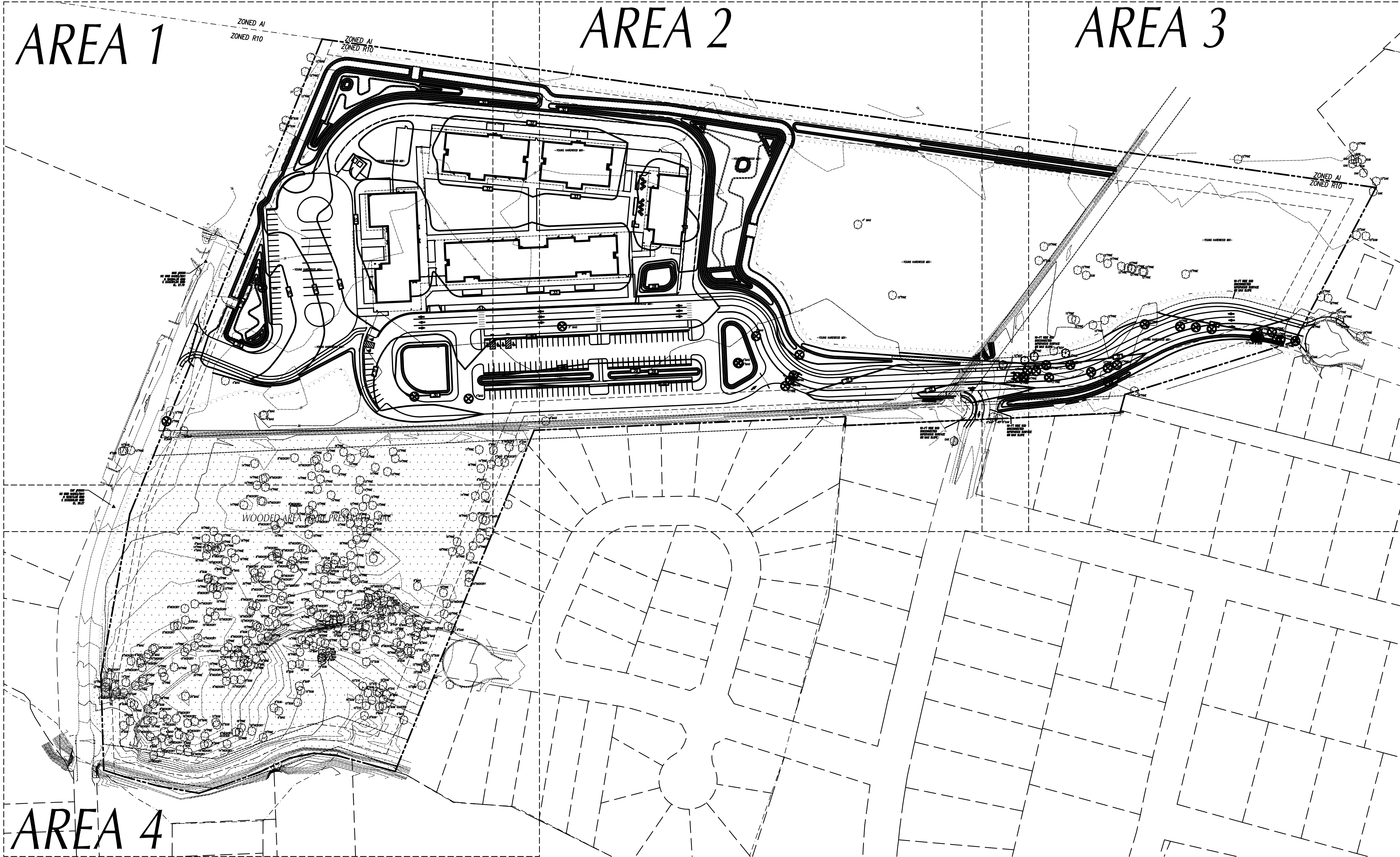
**C-203**

AREA 1

AREA 2

AREA 3

AREA 4



MITIGATION CALCULATIONS

SIGNIFICANT TREE MITIGATION CALCULATIONS:  
(PER COW LDC SEC 18-460(b))

TOTAL DBH OF REMOVED SIGNIFICANT TREE x TWO TIMES PERCENTAGE OF MITIGATION /3

TYPE	DBH	PERCENTAGE x 2	# OF REPLACEMENT TREES
LOB. PINE (19)	12"	100% x 2	/3 152 TREES
S. MAGNOLIA(9)	4"	100% x 2	/3 21 TREES
LOB. PINE (2)	18"	100% x 2	/3 36 TREES
LOB. PINE	10"	100% x 2	/3 7 TREES
LOB. PINE	13"	100% x 2	/3 9 TREES
LOB. PINE (3)	8"	100% x 2	/3 16 TREES
LOB. PINE	14"	100% x 2	/3 9 TREES
S. MAGNOLIA (2)	5"	100% x 2	/3 7 TREES
S. MAGNOLIA	6"	100% x 2	/3 4 TREES

TOTAL TREES REQUIRED FOR MITIGATION: 261 TREES PROVIDED: SEE BELOW\*\*

CREDITS FOR EXISTING TREES:

SIZE	QTY.	CREDIT VALUE	TOTAL
2-5" CALIPER	346	1	346*
6-11"	2	2	4
12-17"	1	3	3
18-23"	N/A	4	N/A
>24"	N/A	DBH/6 (178")	N/A
TOTAL:			353

15 TREES 2" CALIPER OR GREATER PER ACRE OF DISTURBED LAND. ACRES DISTURBED: 12.8 CREDITS REQUIRED: 192 CREDITS

NEW TREES PROVIDED: 75 TREES/197 CREDITS  
+ EXISTING TREES: 353 TREES/29 CREDITS  
TOTAL CREDITS PROVIDED: 428 CREDITS\*\*

MITIGATION EXEMPTIONS

LDO SEC. 12-46(A,B,C):

A. 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.

B. 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.

C. 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.



NEW SCHOOL BUILDING



LS3P

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



NOT FOR CONSTRUCTION

MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS

COPYRIGHT 2017 ALL RIGHTS RESERVED  
PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM LS3P ASSOCIATES LTD.

REVISIONS:

No.	Description	Date
1	Design Development	02/02/2018
2	SUP Resubmittal	02/09/2018
3	TRC Resubmittal	03/09/2018

PROJECT: 7201-169350/ (CLH:17-140)  
DATE: DEC 20 2017  
DRAWN BY: ST, GSH, YLA  
CHECKED BY: CLH, GSH, ZRP

TREE DEMOLITION AND SITE PLAN

C-204

APPROVED CONSTRUCTION PLAN

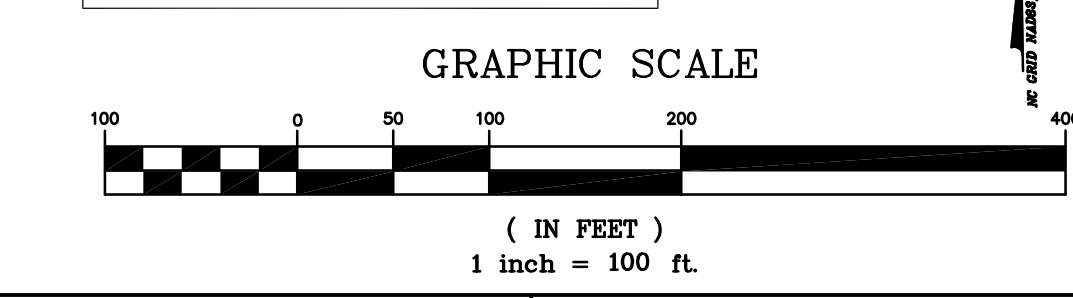
NAME \_\_\_\_\_ DATE \_\_\_\_\_

PLANNING \_\_\_\_\_

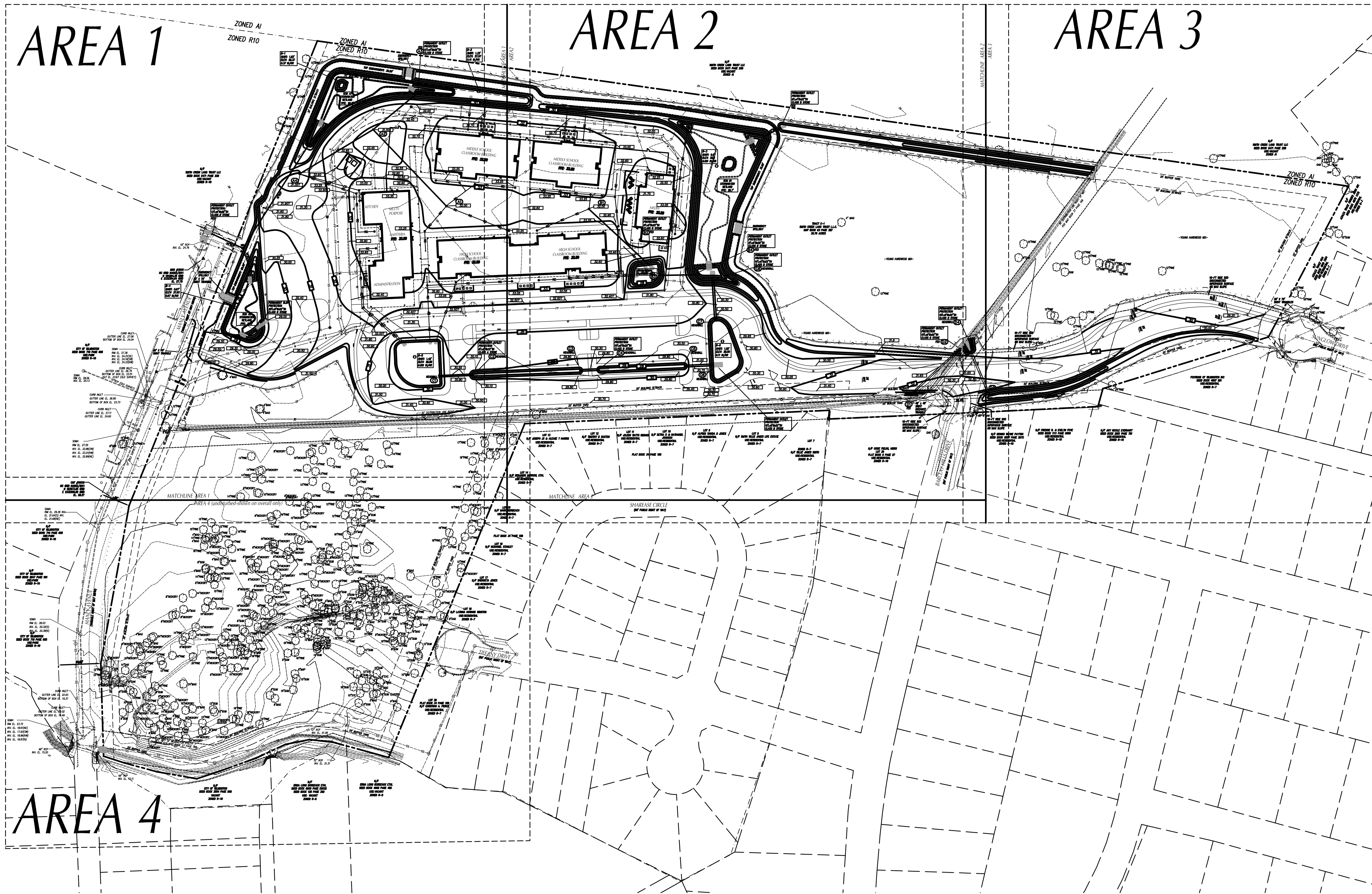
TRAFFIC \_\_\_\_\_

FIRE \_\_\_\_\_

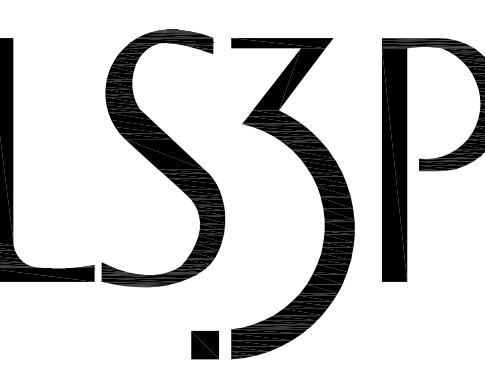
WILMINGTON NORTH CAROLINA  
Public Services • Engineering Division  
APPROVED STORMWATER MANAGEMENT PLAN  
Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_



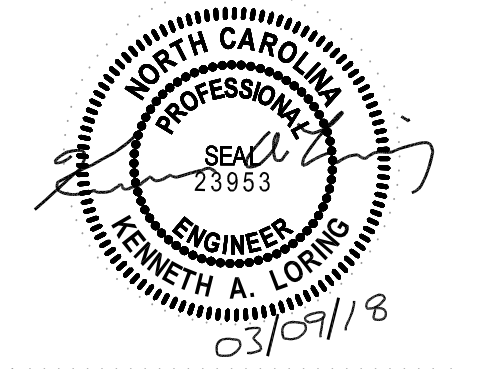
OVERALL PLAN FOR REFERENCE ONLY. PLEASE SEE ENLARGED 40 SCALE SHEETS.



**NEW SCHOOL BUILDING**



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



**NOT FOR CONSTRUCTION**

MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS  
 COPYRIGHT 2017 ALL RIGHTS RESERVED  
 PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM LS3P ASSOCIATES LTD.

REVISIONS:

No.	Description	Date
1	Design Development	02/02/2018
2	SUP Resubmittal	02/09/2018
3	TRC Resubmittal	03/09/2018

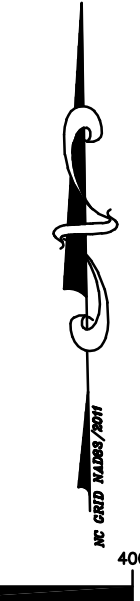
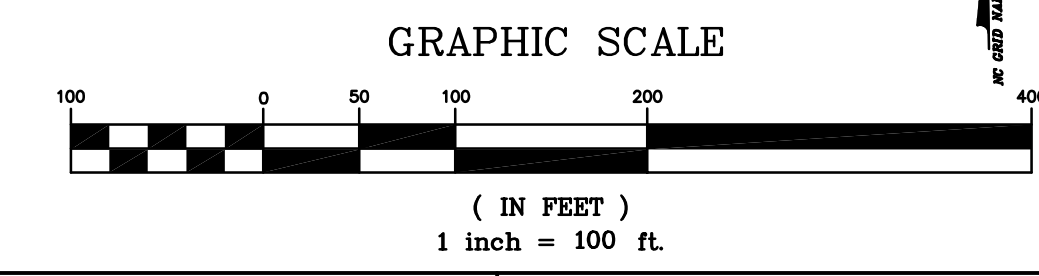
PROJECT: 7201-169350/ (CLH:17-140)  
 DATE: DEC 20 2017  
 DRAWN BY: ST, GSH, YLA  
 CHECKED BY: CLH, GSH, ZRP

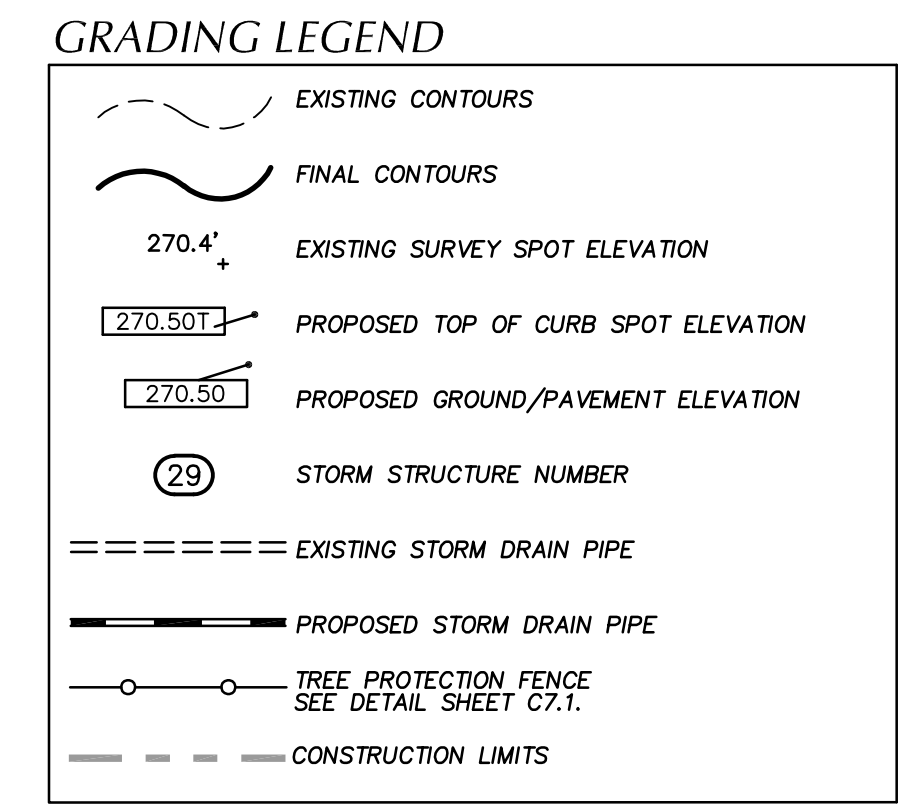
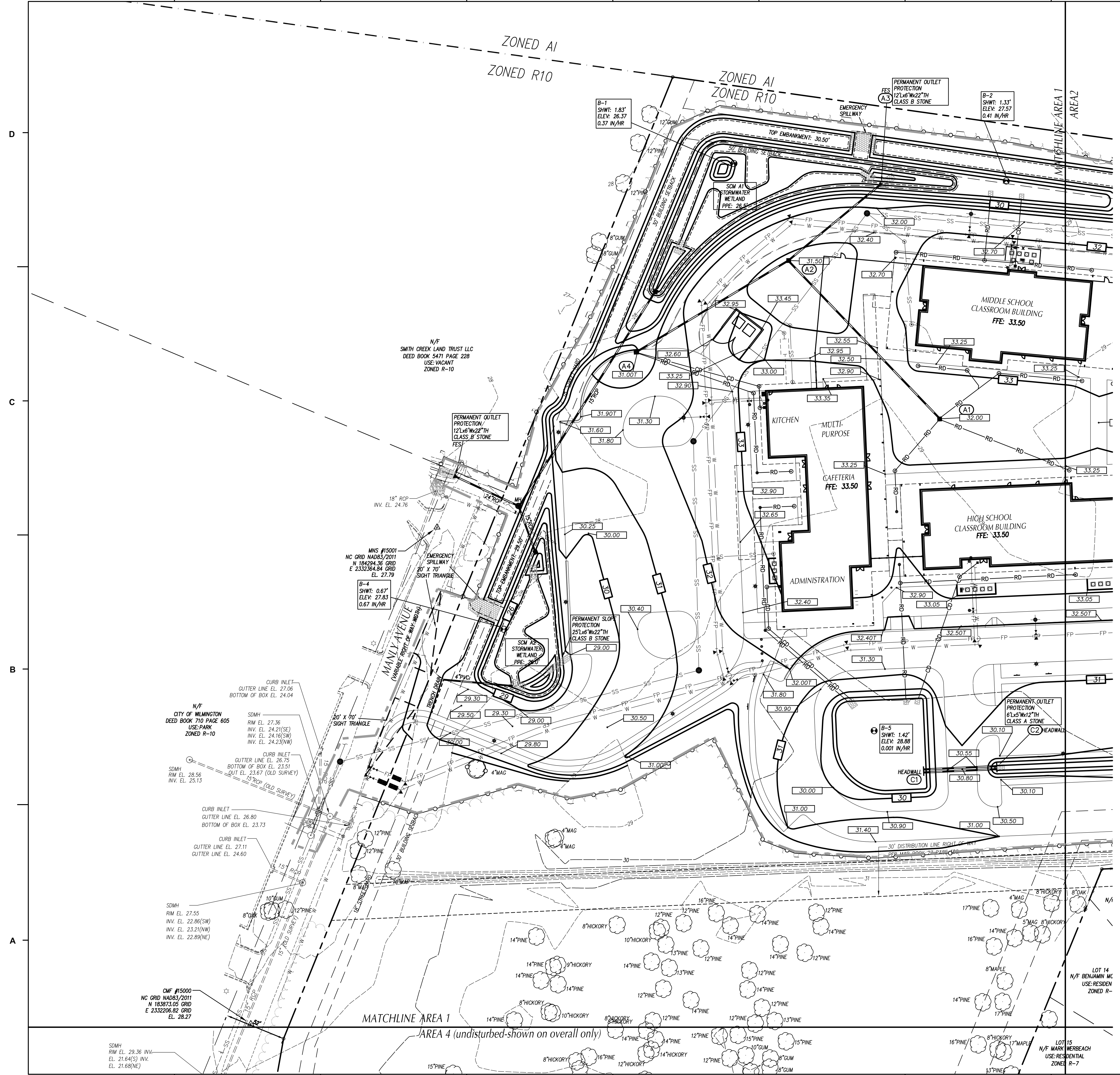
**OVERALL GRADING PLAN**  
**C-300**

APPROVED CONSTRUCTION PLAN

NAME	DATE
PLANNING _____	_____
TRAFFIC _____	_____
FIRE _____	_____

City of WILMINGTON NORTH CAROLINA  
 Public Services • Engineering Division  
 APPROVED STORMWATER MANAGEMENT PLAN  
 Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_





- ### GRADING NOTES
- ALL SPOT ELEVATIONS INDICATED AT CURB AND GUTTER ARE TO TOP OF CURB, UNLESS OTHERWISE SHOWN.
  - TOTAL DENUDED AREA = 12.8 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.

### DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO.	PIPE	PIPE	PIPE	PIPE	UPPER	LOWER	TOP ELEV.	UPSTREAM STRUCTURE DATA	NOTES	
UP STRM	DN STRM	SLOPE	DIAM.	LENGTH	MATL.	INV.	(FT.)	DEPTH (FT.)	TYPE	
A1	A2	0.54%	18	188	RCP	29.00	28.00	32.00	3.00	3I
A2	A3	0.59%	24	102	RCP	26.00	26.00	31.50	4.90	3I
A4	A2	0.53%	15	150	RCP	27.50	26.70	31.00	3.50	CB
B1	B2	1.03%	18	146	RCP	29.00	27.50	32.00	3.00	3I
B3	B4	2.03%	18	64	RCP	28.00	26.70	31.00	3.00	FES
C1	C2	0.42%	15	60	[2] RCP	27.95	27.70	30.80	2.85	HDWL
C3	C4	0.56%	24	36	[2] RCP	27.60	27.40	30.20	2.60	HDWL
C5	C6	0.46%	24	54	[2] RCP	27.30	27.05	30.70	3.40	HDWL
C7	C8	0.56%	24	72	[2] RCP	26.90	26.50	30.50	3.00	HDWL
D1	D2	0.51%	30	78	[2] RCP	27.20	26.80	32.00	4.80	HDWL
D3	D4	0.71%	36	84	[2] RCP	27.40	26.80	32.00	4.60	HDWL

**LEGEND**  
 CB CATCH BASIN, SEE DETAIL SHEET C07.10.  
 DI DROP INLET, SEE DETAIL SHEET C07.10.  
 FES FLOOD FILLED END SECTION, SEE DETAIL SHEET C07.10.  
 HDWL HEADWALL, NODD STD. 608.11.  
 (A2) STRUCTURE I.D. NUMBER

**NOTES**  
 1. TOP ELEVATION IS TOP OF CURB FOR CATCH BASINS, TOP OF RIM FOR MANHOLES, TOP OF GRADE FOR DROP INLETS, AND FINISH GRADE FOR CLEANOUTS.  
 2. ALL FES INLETS & OUTLETS SHALL BE RCP.

**APPROVED CONSTRUCTION PLAN**

NAME \_\_\_\_\_ DATE \_\_\_\_\_

PLANNING \_\_\_\_\_

TRAFFIC \_\_\_\_\_

FIRE \_\_\_\_\_

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

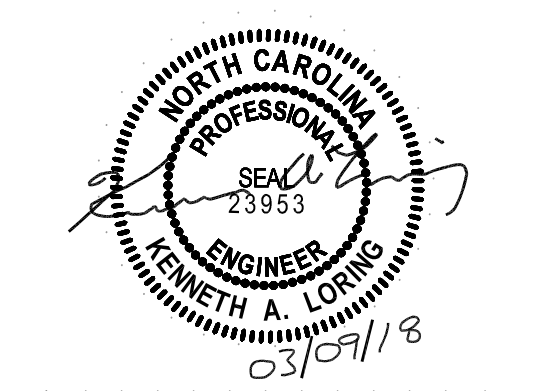
**GRAPHIC SCALE**  
 0 20 40 60 80 100  
 ( IN FEET )  
 1 inch = 40 ft.



**NEW SCHOOL BUILDING**



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



**NOT FOR CONSTRUCTION**

MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS

COPYRIGHT 2017 ALL RIGHTS RESERVED  
 PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM LS3P ASSOCIATES LTD.

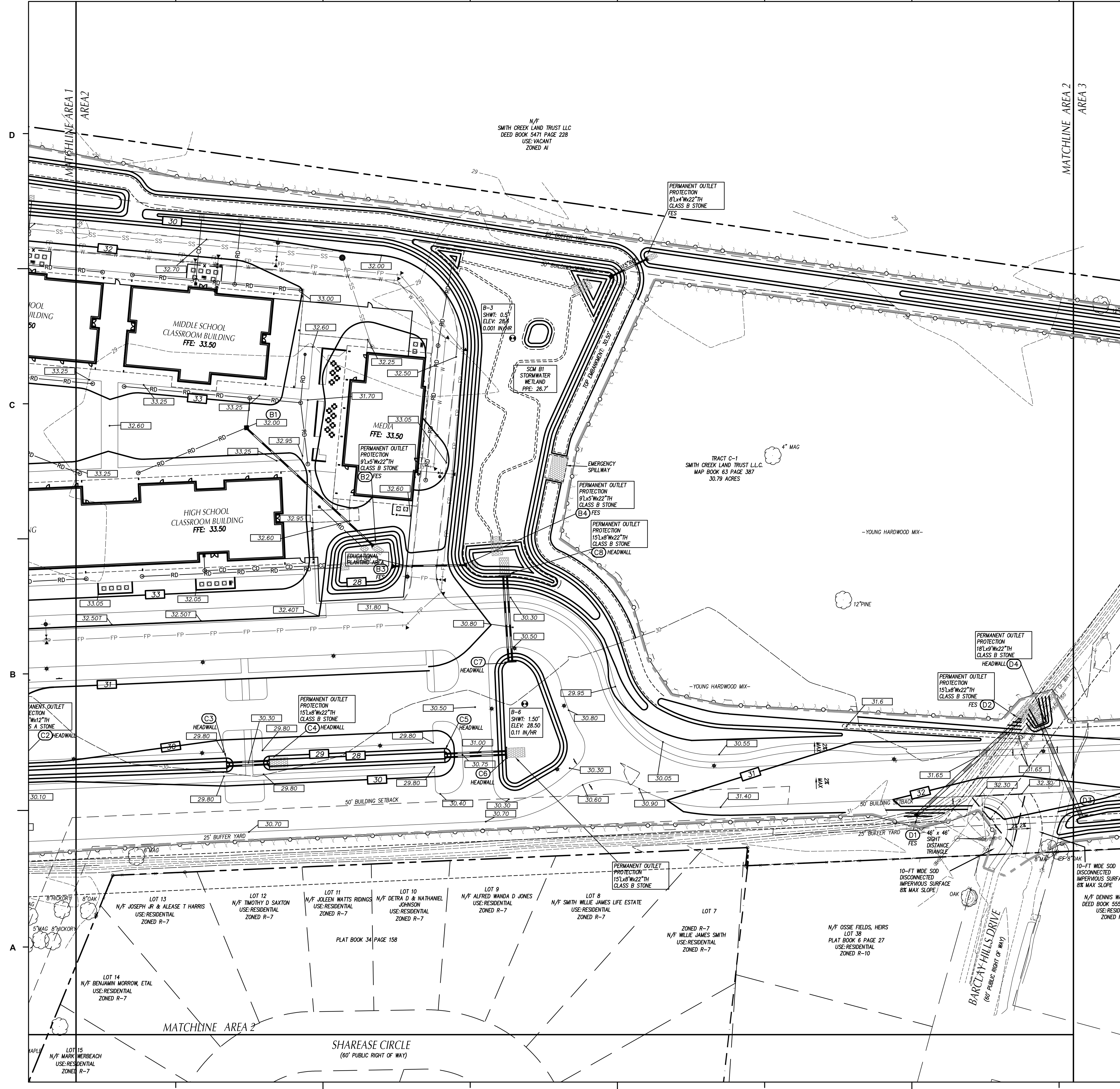
**REVISIONS:**

No.	Description	Date
1	Design Development	02/02/2018
2	SUP Resubmittal	02/09/2018
3	TRC Resubmittal	03/09/2018

PROJECT: 7201-169350/ (CLH:17-140)  
 DATE: DEC 20 2017  
 DRAWN BY: ST, GSH, YLA  
 CHECKED BY: CLH, GSH, ZRP

**GRADING PLAN- AREA 1**

**C-301**



### GRADING LEGEND

- EXISTING CONTOURS
- FINAL CONTOURS
- 270.4' EXISTING SURVEY SPOT ELEVATION
- 270.501' 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
1. ALL SPOT ELEVATIONS INDICATED AT CURB AND GUTTER ARE TO TOP OF CURB, UNLESS OTHERWISE SHOWN.
  2. TOTAL DENUDED AREA = 12.8 AC.
  3. CONTRACTOR SHALL ADJUST ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. AS NEEDED TO MATCH FINISH GRADE.
  4. ALL BACKFILL, COMPACTION, SOILS TESTING, ETC. SHALL BE PERFORMED BY THE OWNERS INDEPENDENT TESTING LABORATORY. (SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION)
  5. ALL STORM DRAIN PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER STOPPAGE OF WORK EACH DAY.
  6. EXISTING VEGETATION WITHIN TREE PROTECTION AREAS SHALL REMAIN UNDISTURBED, UNLESS NOTED OTHERWISE.
  7. THE GRADING CONTRACTOR SHALL COMPLY WITH ALL STATE CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE.
  8. THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY STATE AUTHORITIES OR THE ARCHITECT.
  9. 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.
  10. 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.

### DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO.	UP STRM / DN STRM	PIPE SLOPE	PIPE DIA. (IN)	PIPE LENGTH (LF)	PIPE MATL.	UPPER INV. (FT)	LOWER INV. (FT)	UPSTREAM STRUCTURE DATA		NOTES
								TOP ELEV. (FT)	DEPTH (FT)	
A1	A2	0.54%	18	186	RCP	29.00	28.00	32.00	3.00	3I
A2	A3	0.59%	24	102	RCP	26.00	26.00	31.50	4.90	3I
A4	A2	0.53%	15	150	RCP	27.50	26.70	31.00	3.50	CB
B1	B2	1.03%	18	146	RCP	29.00	27.50	32.00	3.00	3I
B3	B4	2.03%	18	64	RCP	28.00	26.70	31.00	3.00	FES
C1	C2	0.42%	15	60	[2] RCP	27.95	27.70	30.80	2.85	HDWL
C3	C4	0.56%	24	36	[2] RCP	27.60	27.40	30.20	2.60	HDWL
C5	C6	0.46%	24	54	[2] RCP	27.30	27.05	30.70	3.40	HDWL
C7	C8	0.56%	24	72	[2] RCP	26.90	26.50	30.50	3.00	HDWL
D1	D2	0.91%	30	78	[2] RCP	27.20	26.80	32.00	4.80	HDWL
D3	D4	0.71%	36	84	[2] RCP	27.40	26.80	32.00	4.60	HDWL

**LEGEND**  
 CB CATCH BASIN, SEE DETAIL SHEET C07.10.  
 DI DROP INLET, SEE DETAIL SHEET C07.10.  
 FES ROOF FLUMED END SECTION, SEE DETAIL SHEET C07.10.  
 HDWL HEADWALL, NODY STD. 68.11.  
 (A2) STRUCTURE I.D. NUMBER

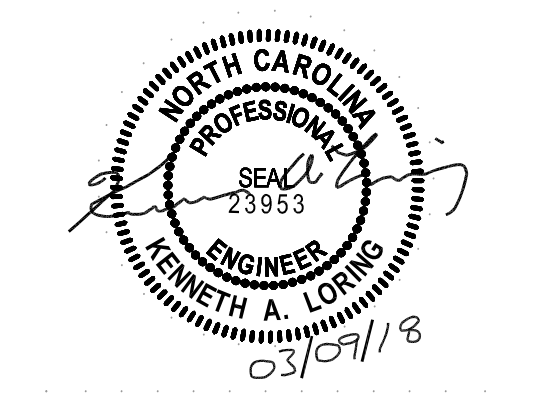
**NOTES**  
 1. TOP ELEVATION IS TOP OF CURB FOR CATCH BASINS, TOP OF RIM FOR MANHOLES, TOP OF GRATE FOR DROP INLETS, AND FINISH GRADE FOR CLEANOUTS.  
 2. ALL FES INLETS & OUTLETS SHALL BE RCP.



**NEW SCHOOL BUILDING**



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



**NOT FOR CONSTRUCTION**

MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS

COPYRIGHT 2017 ALL RIGHTS RESERVED  
 PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM LS3P ASSOCIATES LTD.

REVISIONS:

No.	Description	Date
1	Design Development	02/02/2018
2	SUP Resubmittal	02/09/2018
3	TRC Resubmittal	03/09/2018

PROJECT: 7201-169350/ (CLH:17-140)  
 DATE: DEC 20 2017  
 DRAWN BY: ST, GSH, YLA  
 CHECKED BY: CLH, GSH, ZRP

**GRADING PLAN - AREA 2**

**C-302**

**APPROVED CONSTRUCTION PLAN**

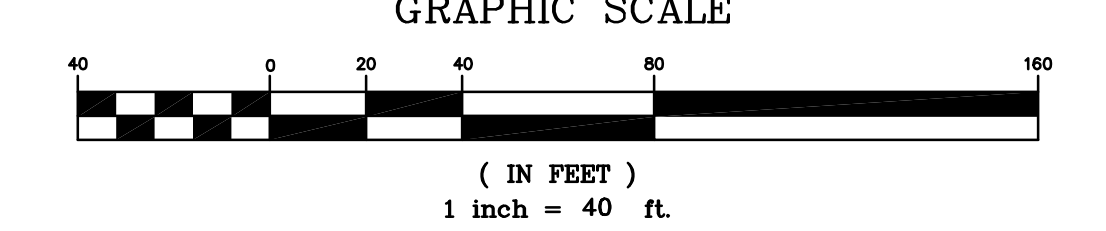
NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

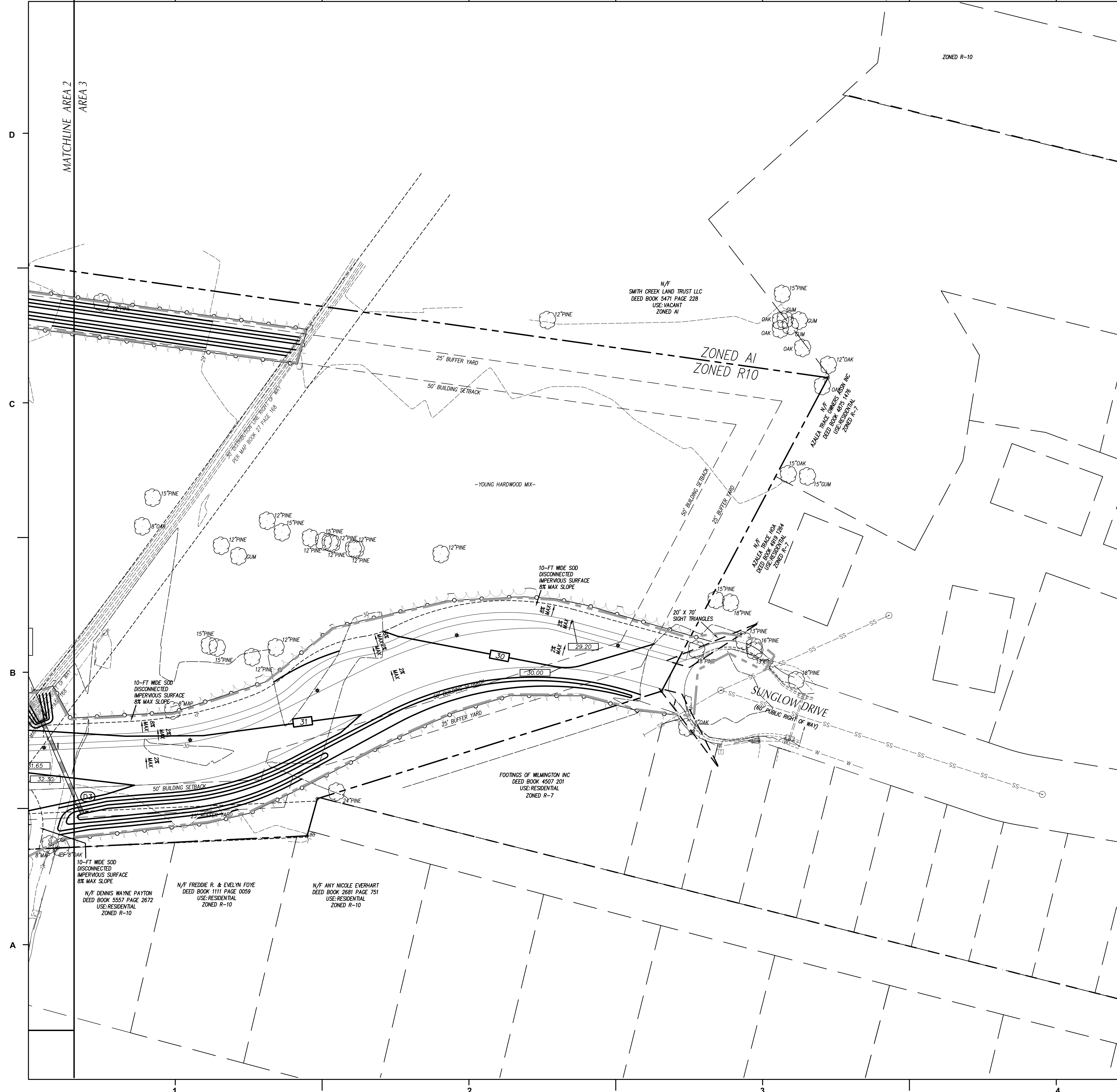
PLANNING: \_\_\_\_\_

TRAFFIC: \_\_\_\_\_

FIRE: \_\_\_\_\_

City of WILMINGTON, NORTH CAROLINA  
 Public Services • Engineering Division  
 APPROVED STORMWATER MANAGEMENT PLAN  
 Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_





### GRADING LEGEND

- EXISTING CONTOURS
- FINAL CONTOURS
- 270.4' EXISTING SURVEY SPOT ELEVATION
- 270.501' 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 DENUDED AREA = 12.8 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.

### DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO.	PIPE DIA. (IN)	PIPE SLOPE	PIPE LENGTH (LF)	PIPE MATL.	UPPER INV. (FT)	LOWER INV. (FT)	UPSTREAM STRUCTURE DATA		NOTES
							TOP ELEV. (FT)	DEPTH (FT)	
A1	A2	0.54%	18	RCP	29.00	28.00	32.00	3.00	3I
A2	A3	0.59%	24	RCP	26.00	25.00	31.50	4.50	3I
A4	A2	0.53%	15	RCP	27.50	26.70	31.00	3.50	CB
B1	B2	1.03%	18	RCP	29.00	27.50	32.00	3.00	3I
B3	B4	2.03%	18	RCP	28.00	26.70	31.00	3.00	FES
C1	C2	0.42%	15	[2] RCP	27.95	27.70	30.80	2.85	HDWL
C3	C4	0.56%	24	[2] RCP	27.60	27.40	30.20	2.60	HDWL
C5	C6	0.46%	24	[2] RCP	27.30	27.05	30.70	3.40	HDWL
C7	C8	0.56%	24	[2] RCP	26.90	26.50	30.50	3.60	HDWL
D1	D2	0.91%	30	[2] RCP	27.20	26.80	32.00	4.80	HDWL
D3	D4	0.71%	36	[2] RCP	27.40	26.80	32.00	4.60	HDWL

<b>LEGEND</b>	<b>NOTES</b>
CB CATCH BASIN, SEE DETAIL SHEET C07.10.	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.
DI DROP INLET, SEE DETAIL SHEET C07.10.	2. ALL FES INLETS & OUTLETS SHALL BE RCP.
FES RCP FLARED END SECTION, SEE DETAIL SHEET C07.10.	
HDWL HEADWALL, NOTED STD. 608.11.	
(A2) STRUCTURE I.D. NUMBER	

APPROVED CONSTRUCTION PLAN

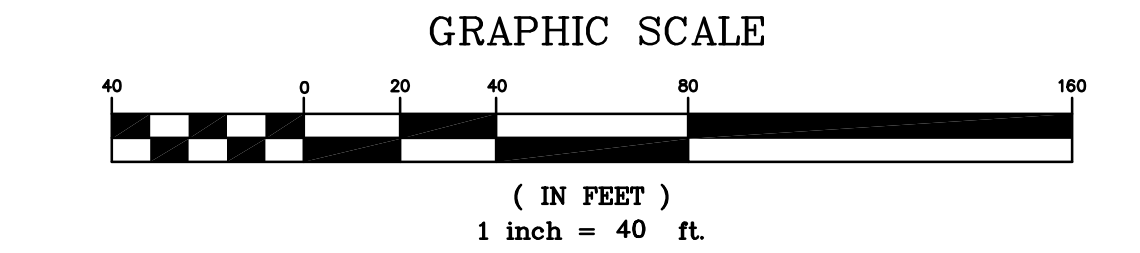
NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

PLANNING: \_\_\_\_\_

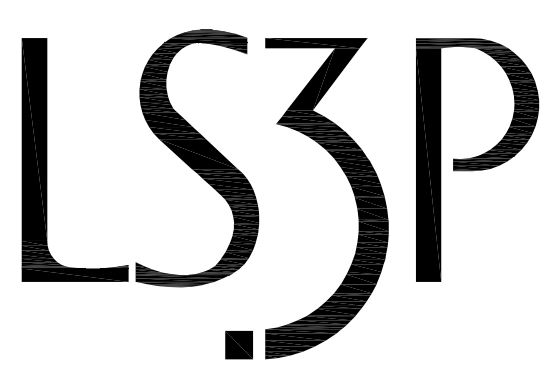
TRAFFIC: \_\_\_\_\_

FIRE: \_\_\_\_\_

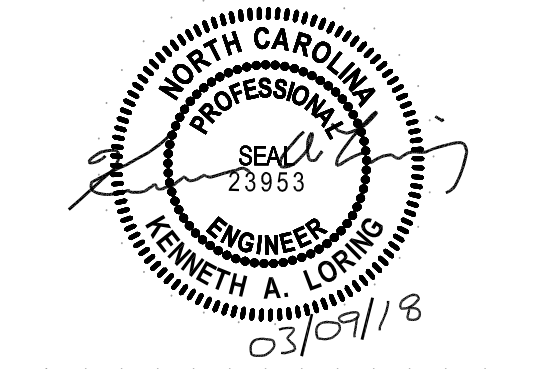
City of WILMINGTON, NORTH CAROLINA  
Public Services • Engineering Division  
APPROVED STORMWATER MANAGEMENT PLAN  
Date: \_\_\_\_\_ Permit #: \_\_\_\_\_  
Signed: \_\_\_\_\_



**NEW SCHOOL BUILDING**



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



**NOT FOR CONSTRUCTION**

MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS

COPYRIGHT 2017 ALL RIGHTS RESERVED  
PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM LS3P ASSOCIATES LTD.

REVISIONS:

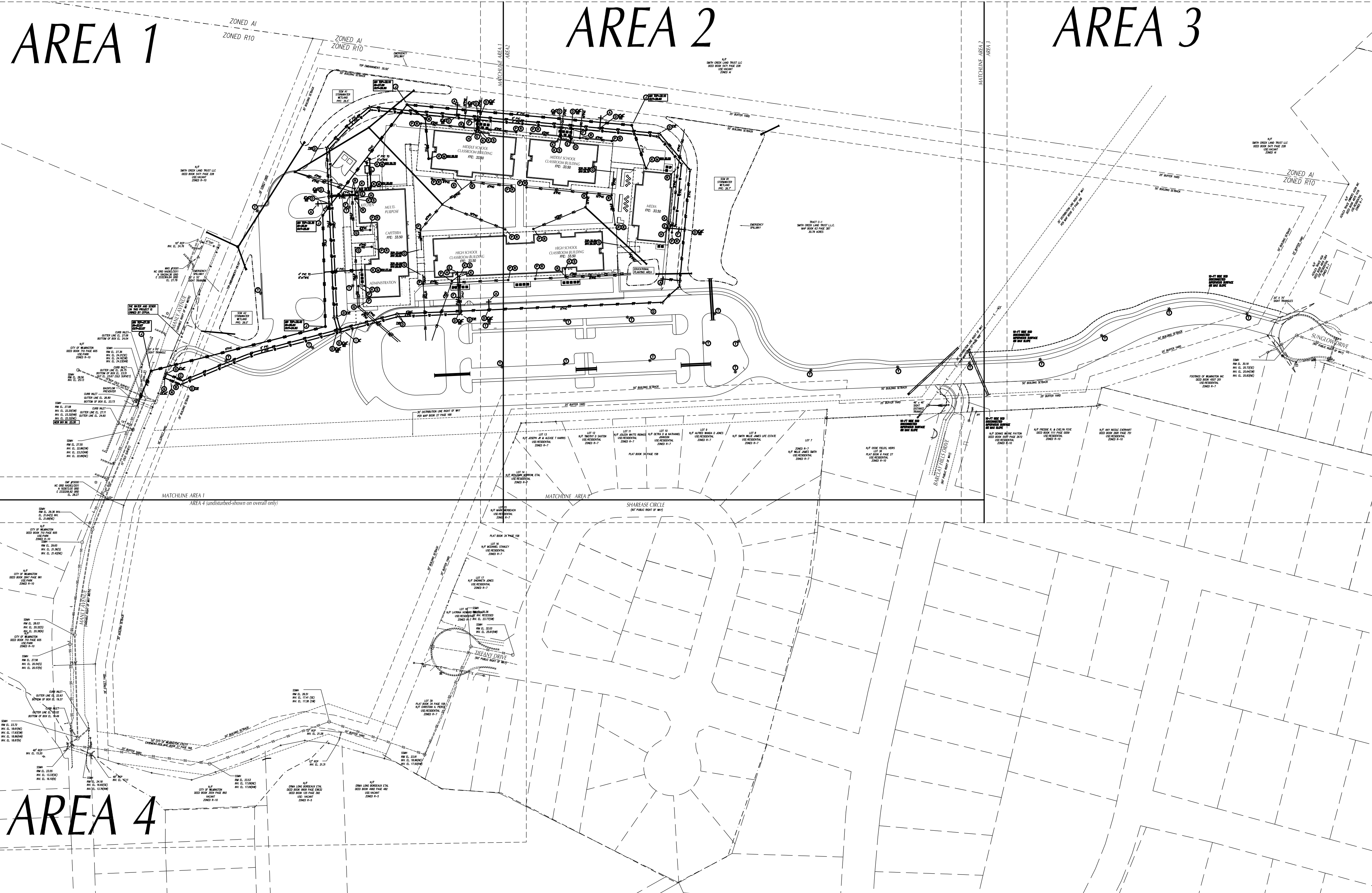
No.	Description	Date
1	Design Development	02/02/2018
2	SUP Resubmittal	02/09/2018
3	TRC Resubmittal	03/09/2018

PROJECT: 7201-169350/ (CLH:17-140)  
DATE: DEC 20 2017  
DRAWN BY: ST, GSH, YLA  
CHECKED BY: CLH, GSH, ZRP

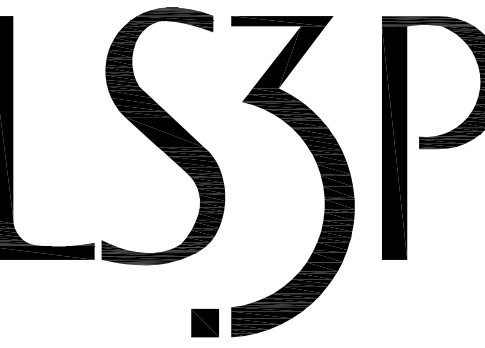
**GRADING PLAN - AREA 3**

**C-303**

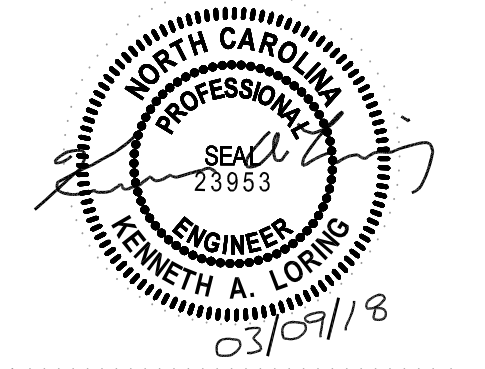
OVERALL PLAN FOR REFERENCE ONLY. PLEASE SEE ENLARGED 40 SCALE SHEETS.



**NEW SCHOOL BUILDING**



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



**NOT FOR CONSTRUCTION**

MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS  
 COPYRIGHT 2017 ALL RIGHTS RESERVED  
 PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM LS3P ASSOCIATES LTD.

REVISIONS:

No.	Description	Date
1	Design Development	02/02/2018
2	SUP Resubmittal	02/09/2018
3	TRC Resubmittal	03/09/2018

PROJECT: 7201-169350/ (CLH:17-140)  
 DATE: DEC 20 2017  
 DRAWN BY: ST, GSH, YLA  
 CHECKED BY: CLH, GSH, ZRP

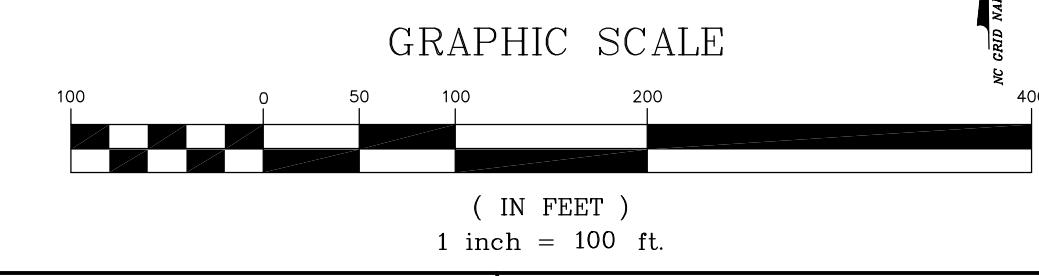
**OVERALL UTILITY PLAN**

**C-500**

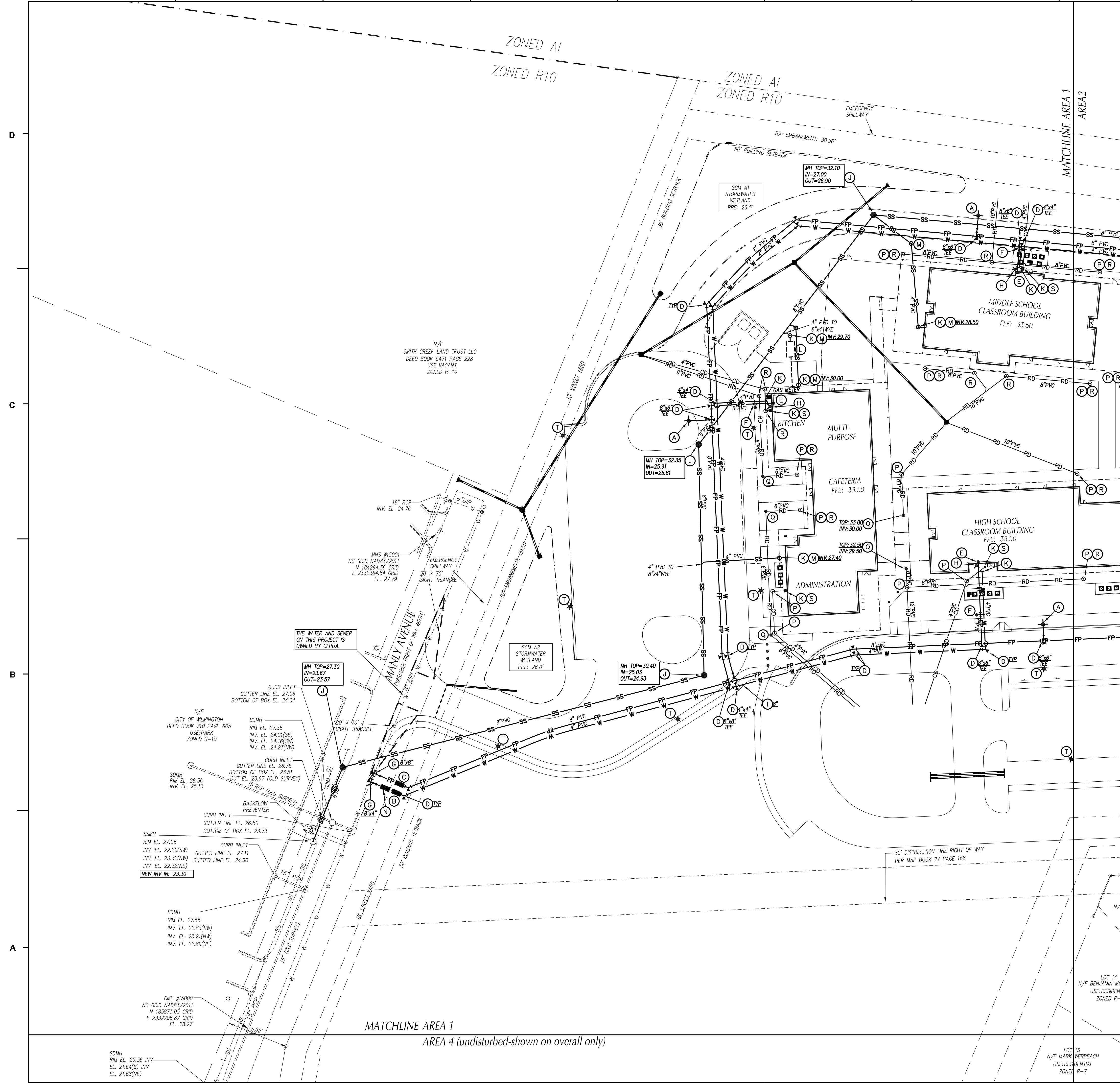
APPROVED CONSTRUCTION PLAN

NAME	DATE
PLANNING _____	_____
TRAFFIC _____	_____
FIRE _____	_____

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







### UTILITY LEGEND

	EXISTING	PROPOSED
OVERHEAD ELECTRICAL	---E---	---E---
UNDERGROUND ELECTRICAL	---UE---	---UE---
GAS	---G---	---G---
SANITARY SEWER	---SS---	---SS---
TELEPHONE	---T---	---T---
UNDERGROUND TELEPHONE	---UT---	---UT---
WATER	---W---	---W---
FIRE PROTECTION	---FP---	---FP---
FORCE MAIN	---FM---	---FM---
CHILLED WATER	---CW---	---CW---
FOUNDATION DRAIN	---FD---	---FD---
FIBER OPTIC	---FO---	---FO---
ROOF DRAIN	---RD---	---RD---
STORM DRAIN	---SD---	---SD---
LIGHT POLE	LP	LP
UTILITY POLE	PP	PP
MANHOLE	MH	MH
CLEAN OUT	CO	CO
DROP INLET/CATCH BASIN	DI, CB	DI, CB
FIRE HYDRANT	FH	FH
WATER VALVE	WV	WV
TELEPHONE PEDESTAL	TP	TP
COMMUNICATION BOX	CB	CB
SANITARY SEWER STRUCTURE I.D.		3
STORM SEWER STRUCTURE I.D.		8

- ### UTILITY NOTES
- INSTALL WATERMANS WITH A COVER OF NO LESS THAN 4'-FT. INSTALL WATER SERVICES WITH NO LESS THAN 18"-IN OF COVER TO SUBGRADE.
  - INSTALL SEWER MAINS WITH A COVER OF NO LESS THAN 3'-FT TO FINISHED GRADE UNLESS DUCTILE IRON PIPE IS USED. INSTALL SEWER SERVICES WITH NO LESS THAN 18"-IN COVER TO SUBGRADE.
  - INSTALL ALL UTILITIES TO PROVIDE CLEARANCES AS INDICATED IN THE SPECIFICATIONS.
  - WATERLINES AND SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM HORIZONTAL CLEARANCE OF 10'-FT.
  - WATER AND SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM VERTICAL CLEARANCE OF 12"-IN TO STORM DRAINAGE PIPES.
  - COORDINATE AND SCHEDULE INSTALLATION OF ALL UTILITIES WITH OTHER PRIME CONTRACTORS, UTILITY COMPANIES AND OTHER TRADES INCLUDING BUT NOT LIMITED TO: NATURAL GAS, ELECTRICITY, TELEPHONE AND CABLE.
  - VERIFY EXISTING CONDITIONS AND CONNECTIONS TO EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF ANY DISCREPANCIES ARE DISCOVERED.
  - CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
  - ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE NCSIC AND OSHA REQUIREMENTS.
  - THE CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF ALL UTILITY AND STORM DRAINAGE IMPROVEMENTS FOLLOWING CONSTRUCTION.
  - CONTRACTOR SHALL PHASE DEMOLITION AND NEW CONSTRUCTION TO ENSURE UNINTERRUPTED ACCESS AND UTILITY SERVICE TO ADJACENT FACILITIES. COORDINATE SHORT-TERM, OFF-HOUR, TEMPORARY SHUT-DOWNS WITH THE OWNER.
  - SEE GENERAL NOTES ON EXISTING CONDITIONS AND DEMOLITION PLAN FOR REQUIREMENTS FOR REMOVAL AND PATCHING OF PAVEMENT FOR UTILITY INSTALLATION.
  - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF WILMINGTON STANDARDS AND SPECIFICATIONS.
  - ALL ROOF DRAINS SHALL BE 6" PVC @ 1/4% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 24"-IN.
  - ALL SANITARY SEWER SERVICES SHALL BE 4" PVC (SCH 40) @ 1/4% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 24"-IN.
  - THE FOLLOWING "PERMITS" ARE REQUIRED TO BE OBTAINED FROM THE CITY OF WILMINGTON FIRE SERVICES ADMINISTRATION BY EACH RESPONSIBLE CONTRACTOR PRIOR TO THE START OF WORK: THE "GENERAL CONTRACTOR" SHALL BE RESPONSIBLE TO MAKE SURE ALL OF HIS/HER SUBS FOLLOW THIS PROCEDURE. THE PERMITS REQUIRED ARE AS FOLLOWS: A. UNDERGROUND PIPING PERMIT (FIRE LINE (S)). B. SPRINKLER PERMIT C. FIRE ALARM PERMIT D. KITCHEN HOOD FIRE PROTECTION PERMIT THE "GENERAL CONTRACTOR" SHALL ALSO MAKE SURE THAT ALL HIS SUBS PROPERLY COORDINATE THE INSPECTION PROCESS WITH THE WILMINGTON FIRE DEPARTMENT ADMINISTRATION OFFICE.
  - PROJECT SHALL COMPLY WITH CITY OF WILMINGTON 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.
  - ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CITY WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USPOCCOR OR ASSE.
  - ALL WATER AND SEWER SERVICE LINES TO BE ABANDONED SHALL BE ABANDONED IN ACCORDANCE WITH OPLUA SPECIFICATIONS.

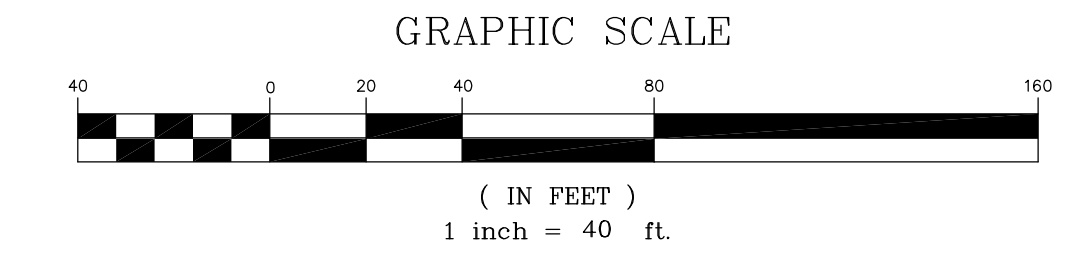
- ### KEY NOTES
- (A) FIRE HYDRANT ASSEMBLY, SEE DETAIL SHEET C707.
  - (B) 4" FIBROD MASTER SERIES LF88V REDUCED PRESSURE ZONE PREVENTION ASSEMBLY (RPZA) OR APPROVED EQUAL WITHIN HEATED ENCLOSURE. SEE DETAIL SHEET C707. SEE ELECTRICAL PLANS FOR ADDITIONAL INFO.
  - (C) 6" FIBROD MASTER SERIES LF88V REDUCED PRESSURE ZONE DETECTOR ASSEMBLY (RPZDA) OR APPROVED EQUAL WITHIN HEATED ENCLOSURE. SEE DETAIL SHEET C707. SEE ELECTRICAL PLANS FOR ADDITIONAL INFO.
  - (D) THRUST BLOCKING, TYP. SEE DETAIL SHEET C706.
  - (E) EXTEND WATER MAIN TO 12"-IN ABOVE FINISH FLOOR FOR FIRE PROTECTION CONNECTION, SEE DETAIL SHEET C706.
  - (F) POST-INDICATOR VALVE W/ TAMPER SWITCH, SEE DETAIL SHEET C706. SEE ELECTRICAL PLANS FOR ADDITIONAL INFO.
  - (G) TAPPING SLEEVE AND VALVE ASSEMBLY AND BLOCKING, SEE DETAIL SHEET C706.
  - (H) FIRE DEPARTMENT CONNECTION ON BUILDING WALL, SEE FIRE PROTECTION PLANS.
  - (I) GATE VALVE AND VALVE BOX, SEE DETAIL SHEET C706.
  - (J) SANITARY SEWER MANHOLE, SEE DETAIL SHEET C705.
  - (K) EXTEND UTILITY TO WITHIN 5'-0" OF BUILDING WALL OR AS INDICATED ON PLUMBING PLANS. REFER TO PLUMBING PLANS FOR LOCATION & INVERT. PROVIDE AND INSTALL FITTINGS FOR ALL CONNECTIONS.
  - (L) NEW GREASE TRAP, REFER TO PLUMBING PLANS FOR LOCATION & INVERT.
  - (M) SANITARY SEWER CLEAN OUT, SEE DETAIL SHEET C706.
  - (N) 4" DOMESTIC WATER METER, SEE DETAIL SHEET C707.
  - (O) POST INDICATOR VALVE, SEE SPECIFICATIONS.
  - (P) ROOF DRAIN CLEAN OUT, SEE DETAIL SHEET.
  - (Q) IN-LINE DRAIN, SEE DETAIL SHEET.
  - (R) ROOF DRAIN DOWNSPOUT CONNECTION, SEE ARCHITECTURAL PLANS FOR LOCATION AND INVERT.
  - (S) CONNECT TO CONDENSATE RELIEF BASIN BY PLUMBING CONTRACTOR, COORDINATE LOCATION AND INVERT WITH PLUMBING PLANS.
  - (T) LIGHT POLE (APPROXIMATE LOCATION), SEE LIGHTING PLAN FOR ADDITIONAL INFORMATION.

- ### LIFE AND SAFETY NOTES:
- NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIAL DELIVERED TO THE JOB SITE.
  - HYDRANT MUST BE WITHIN 150' OF THE FDC (MEASURES AS THE TRUCK DRIVES FOR PRACTICAL USE).
  - FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.
  - LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE THE FDC OR FIRE HYDRANTS. A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT AND FDC.
  - ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED THE DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
  - ISOLATION VALVES WITHIN THE "HOT BOX" SHALL BE ELECTRICALLY SUPERVISED. PLEASE WORK CLOSELY WITH YOUR SPRINKLER AND ALARM INSTALLER IN REGARDS TO RUNNING WIRE FOR TAMPER SWITCH.

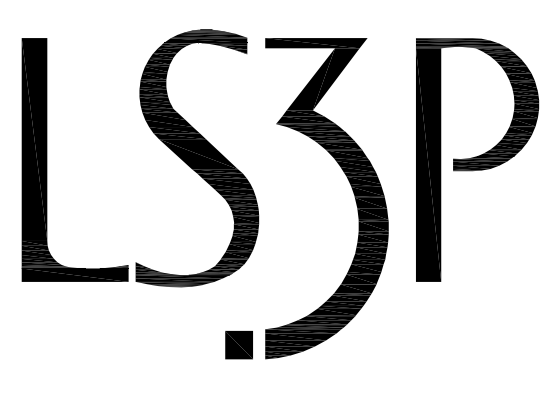
**APPROVED CONSTRUCTION PLAN**

NAME	DATE
PLANNING _____	_____
TRAFFIC _____	_____
FIRE _____	_____

CITY OF WILMINGTON  
 NORTH CAROLINA  
 Public Services • Engineering Division  
 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

**NOT FOR CONSTRUCTION**

MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS  
 COPYRIGHT 2017 ALL RIGHTS RESERVED  
 PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM LS3P ASSOCIATES LTD.

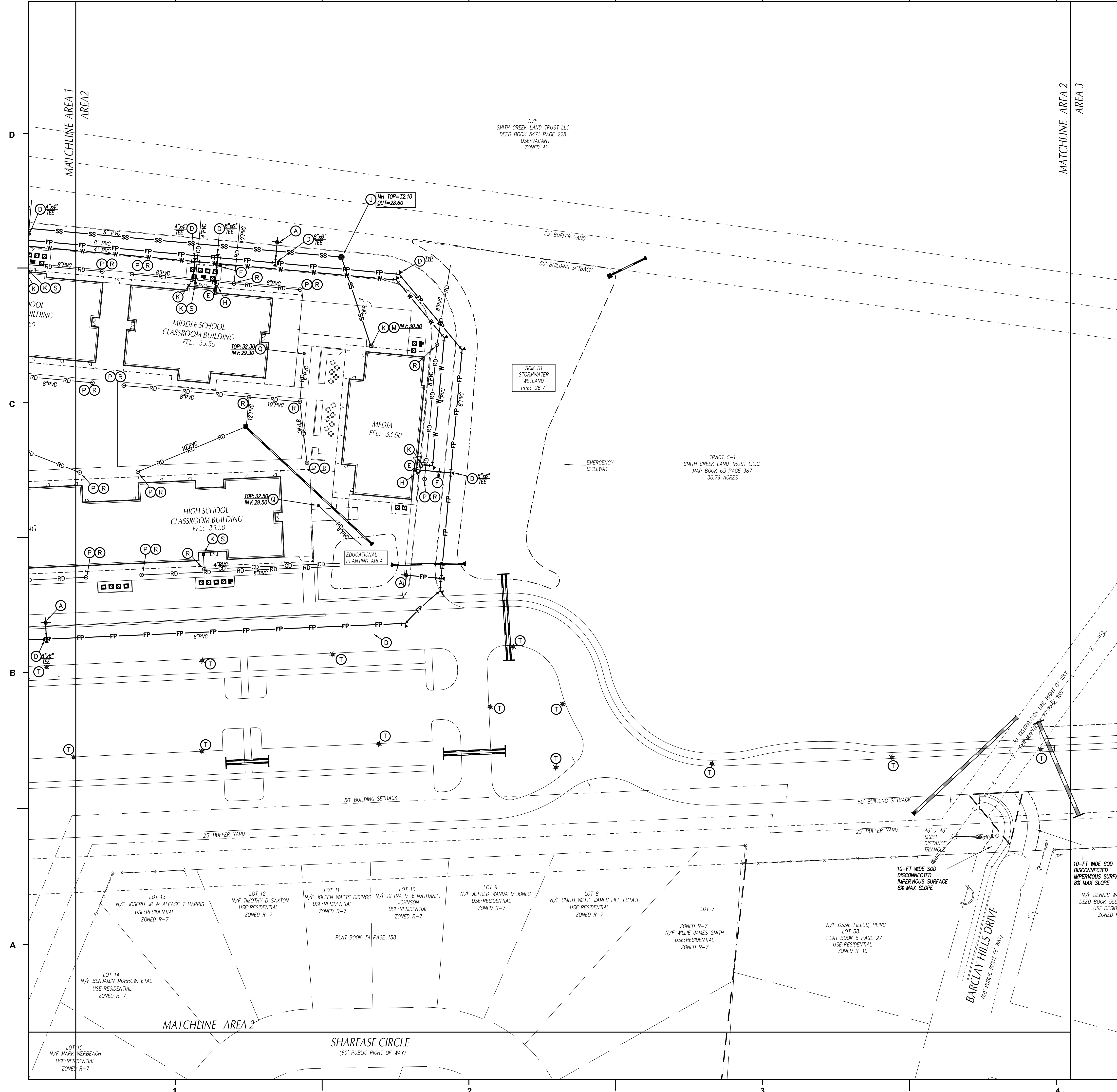
REVISIONS:

No.	Description	Date
1	Design Development	02/02/2018
2	SUP Resubmittal	02/09/2018
3	TRC Resubmittal	03/09/2018

PROJECT: 7201-169350/ (CLH:17-140)  
 DATE: DEC 20 2017  
 DRAWN BY: ST, GSH, YLA  
 CHECKED BY: CLH, GSH, ZRP

**UTILITY PLAN - AREA 1**

**C-501**



### UTILITY LEGEND

	EXISTING	PROPOSED
OVERHEAD ELECTRICAL	---E---	—E—
UNDERGROUND ELECTRICAL	---UE---	—UE—
GAS	---G---	—G—
SANITARY SEWER	---SS---	—SS—
TELEPHONE	---T---	—T—
UNDERGROUND TELEPHONE	---UT---	—UT—
WATER	---W---	—W—
FIRE PROTECTION	---FP---	—FP—
FORCE MAIN	---FM---	—FM—
CHILLED WATER	---CW---	—CW—
FOUNDATION DRAIN	---FD---	—FD—
FIBER OPTIC	---FO---	—FO—
ROOF DRAIN	---RD---	—RD—
STORM DRAIN	---SD---	—SD—
LIGHT POLE	☆ LP	☆
UTILITY POLE	⊙ PP	⊙
MANHOLE	⊙ MH	⊙
CLEAN OUT	⊙ CO	⊙
DROP INLET/CATCH BASIN	⊙ DI, CB	⊙
FIRE HYDRANT	⊙ FH	⊙
WATER VALVE	⊙ WV	⊙
TELEPHONE PEDESTAL	⊙ TP	⊙
COMMUNICATION BOX	⊙ CB	⊙
SANITARY SEWER STRUCTURE I.D.	⊙	⊙
STORM SEWER STRUCTURE I.D.	⊙	⊙

- ### UTILITY NOTES
- INSTALL WATERMANS WITH A COVER OF NO LESS THAN 4'-FT. INSTALL WATER SERVICES WITH NO LESS THAN 18-IN OF COVER TO SUBGRADE.
  - INSTALL SEWER MAINS WITH A COVER OF NO LESS THAN 3'-FT TO FINISHED GRADE UNLESS DUCTILE IRON PIPE IS USED. INSTALL SEWER SERVICES WITH NO LESS THAN 6-IN OF COVER TO SUBGRADE.
  - INSTALL ALL UTILITIES TO PROVIDE CLEARANCES AS INDICATED IN THE SPECIFICATIONS.
  - WATERLINES AND SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM HORIZONTAL CLEARANCE OF 10'-FT.
  - WATER AND SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM VERTICAL CLEARANCE OF 12-IN TO STORM DRAINAGE PIPES.
  - COORDINATE AND SCHEDULE INSTALLATION OF ALL UTILITIES WITH OTHER PRIME CONTRACTORS, UTILITY COMPANIES AND OTHER TRADES INCLUDING BUT NOT LIMITED TO: NATURAL GAS, ELECTRICITY, TELEPHONE AND CABLE.
  - VERIFY EXISTING CONDITIONS AND CONNECTIONS TO EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF ANY DISCREPANCIES ARE DISCOVERED.
  - CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
  - ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE NCSIC AND OSHA REQUIREMENTS.
  - THE CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF ALL UTILITY AND STORM DRAINAGE IMPROVEMENTS FOLLOWING CONSTRUCTION.
  - CONTRACTOR SHALL PHASE DEMOLITION AND NEW CONSTRUCTION TO ENSURE UNINTERRUPTED ACCESS AND UTILITY SERVICE TO ADJACENT FACILITIES. COORDINATE SHORT-TERM, OFF-HOUR, TEMPORARY SHUT-DOWNS WITH THE OWNER.
  - SEE GENERAL NOTES ON EXISTING CONDITIONS AND DEMOLITION PLAN FOR REQUIREMENTS FOR REMOVAL AND PATCHING OF PAVEMENT FOR UTILITY INSTALLATION.
  - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF WILMINGTON STANDARDS AND SPECIFICATIONS.
  - ALL ROOF DRAINS SHALL BE 6" PVC @ 1/4% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 24-IN.
  - ALL SANITARY SEWER SERVICES SHALL BE 4" PVC (SCH 40) @ 1/4% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 24-IN.
  - THE FOLLOWING "PERMITS" ARE REQUIRED TO BE OBTAINED FROM THE CITY OF WILMINGTON FIRE SERVICES ADMINISTRATION BY EACH RESPONSIBLE CONTRACTOR PRIOR TO THE START OF WORK: THE "GENERAL CONTRACTOR" SHALL BE RESPONSIBLE TO MAKE SURE ALL OF HIS/HER SUBS FOLLOW THIS PROCEDURE. THE PERMITS REQUIRED ARE AS FOLLOWS: A. UNDERGROUND PIPING PERMIT (FIRE LINE (S)). B. SPRINKLER PERMIT C. FIRE ALARM PERMIT D. KITCHEN HOOD FIRE PROTECTION PERMIT THE "GENERAL CONTRACTOR" SHALL ALSO MAKE SURE THAT ALL HIS SUBS PROPERLY COORDINATE THE INSPECTION PROCESS WITH THE WILMINGTON FIRE DEPARTMENT ADMINISTRATION OFFICE.
  - CONTACT THE NC ONE CALL CENTER PRIOR TO ANY DIGGING: 1-800-632-4849
  - PROJECT SHALL COMPLY WITH CITY OF WILMINGTON 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.
  - ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CITY WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USDOCCOR OR ASSE.
  - ALL WATER AND SEWER SERVICE LINES TO BE ABANDONED SHALL BE ABANDONED IN ACCORDANCE WITH OPLWA SPECIFICATIONS.

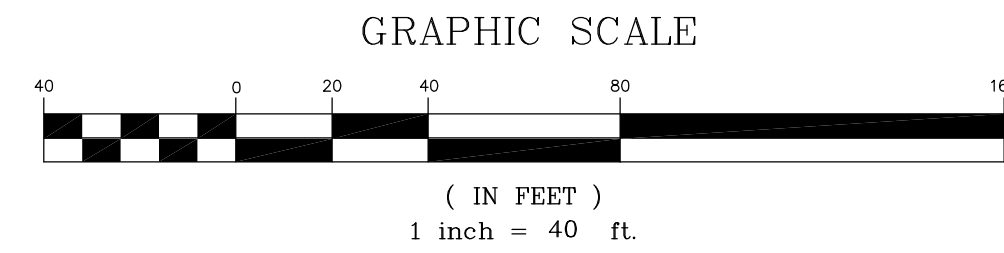
- ### KEY NOTES
- (A) FIRE HYDRANT ASSEMBLY, SEE DETAIL SHEET C707.
  - (B) 4" FIBROD MASTER SERIES LFBROV REDUCED PRESSURE ZONE PREVENTION ASSEMBLY (RPZA) OR APPROVED EQUAL WITHIN HEATED ENCLOSURE. SEE DETAIL SHEET C707. SEE ELECTRICAL PLANS FOR ADDITIONAL INFO.
  - (C) 8" FIBROD MASTER SERIES LFBROV REDUCED PRESSURE ZONE DETECTOR ASSEMBLY (RPZDA) OR APPROVED EQUAL WITHIN HEATED ENCLOSURE. SEE DETAIL SHEET C707. SEE ELECTRICAL PLANS FOR ADDITIONAL INFO.
  - (D) THRUST BLOCKING, TYP. SEE DETAIL SHEET C706.
  - (E) EXTEND WATER MAIN TO 12-IN ABOVE FINISH FLOOR FOR FIRE PROTECTION CONNECTION. SEE DETAIL SHEET C706.
  - (F) POST-INDICATOR VALVE W/ TAMPER SWITCH, SEE DETAIL SHEET C706. SEE ELECTRICAL PLANS FOR ADDITIONAL INFO.
  - (G) TAPPING SLEEVE AND VALVE ASSEMBLY AND BLOCKING. SEE DETAIL SHEET C706.
  - (H) FIRE DEPARTMENT CONNECTION ON BUILDING WALL. SEE FIRE PROTECTION PLANS.
  - (I) GATE VALVE AND VALVE BOX. SEE DETAIL SHEET C706.
  - (J) SANITARY SEWER MANHOLE. SEE DETAIL SHEET C705.
  - (K) EXTEND UTILITY TO WITHIN 5'-0" OF BUILDING WALL OR AS INDICATED ON PLUMBING PLANS. REFER TO PLUMBING PLANS FOR LOCATION & INVERT. PROVIDE AND INSTALL FITTINGS FOR ALL CONNECTIONS.
  - (L) NEW GREASE TRAP. REFER TO PLUMBING PLANS FOR LOCATION & INVERT.
  - (M) SANITARY SEWER CLEAN OUT. SEE DETAIL SHEET C706.
  - (N) 4" DOMESTIC WATER METER. SEE DETAIL SHEET C707.
  - (O) POST INDICATOR VALVE. SEE SPECIFICATIONS.
  - (P) ROOF DRAIN CLEAN OUT. SEE DETAIL SHEET.
  - (Q) IN-LINE DRAIN. SEE DETAIL SHEET.
  - (R) ROOF DRAIN DOWNSPOUT CONNECTION. SEE ARCHITECTURAL PLANS FOR LOCATION AND INVERT.
  - (S) CONNECT TO CONDENSATE RELIEF BASIN BY PLUMBING CONTRACTOR. COORDINATE LOCATION AND INVERT WITH PLUMBING PLANS.
  - (T) LIGHT POLE (APPROXIMATE LOCATION). SEE LIGHTING PLANS FOR ADDITIONAL INFORMATION.

- ### LIFE AND SAFETY NOTES:
- NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIAL DELIVERED TO THE JOB SITE.
  - HYDRANT MUST BE WITHIN 150' OF THE FDC (MEASURES AS THE TRUCK DRIVES FOR PRACTICAL USE).
  - FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.
  - LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE THE FDC OR FIRE HYDRANTS. A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CONGROMERANCE OF THE HYDRANT AND FDC.
  - ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED THE DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
  - ISOLATION VALVES WITHIN THE "HOT BOX" SHALL BE ELECTRICALLY SUPERVISED. PLEASE WORK CLOSELY WITH YOUR SPRINKLER AND ALARM INSTALLER IN REGARDS TO RUNNING WIRE FOR TAMPER SWITCH.

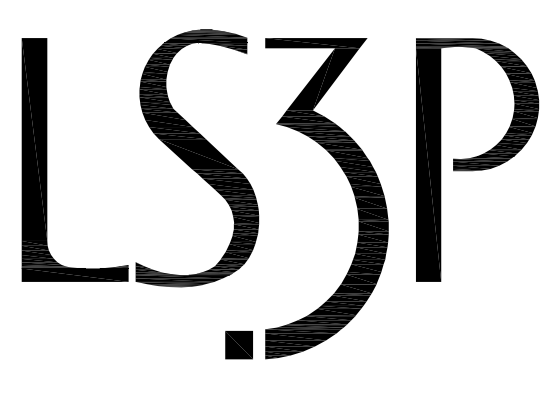
APPROVED CONSTRUCTION PLAN

NAME	DATE
PLANNING	
TRAFFIC	
FIRE	

City of WILMINGTON  
Public Services • Engineering Division  
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

**NOT FOR CONSTRUCTION**

MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS  
COPYRIGHT 2017 ALL RIGHTS RESERVED  
PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM LS3P ASSOCIATES LTD.

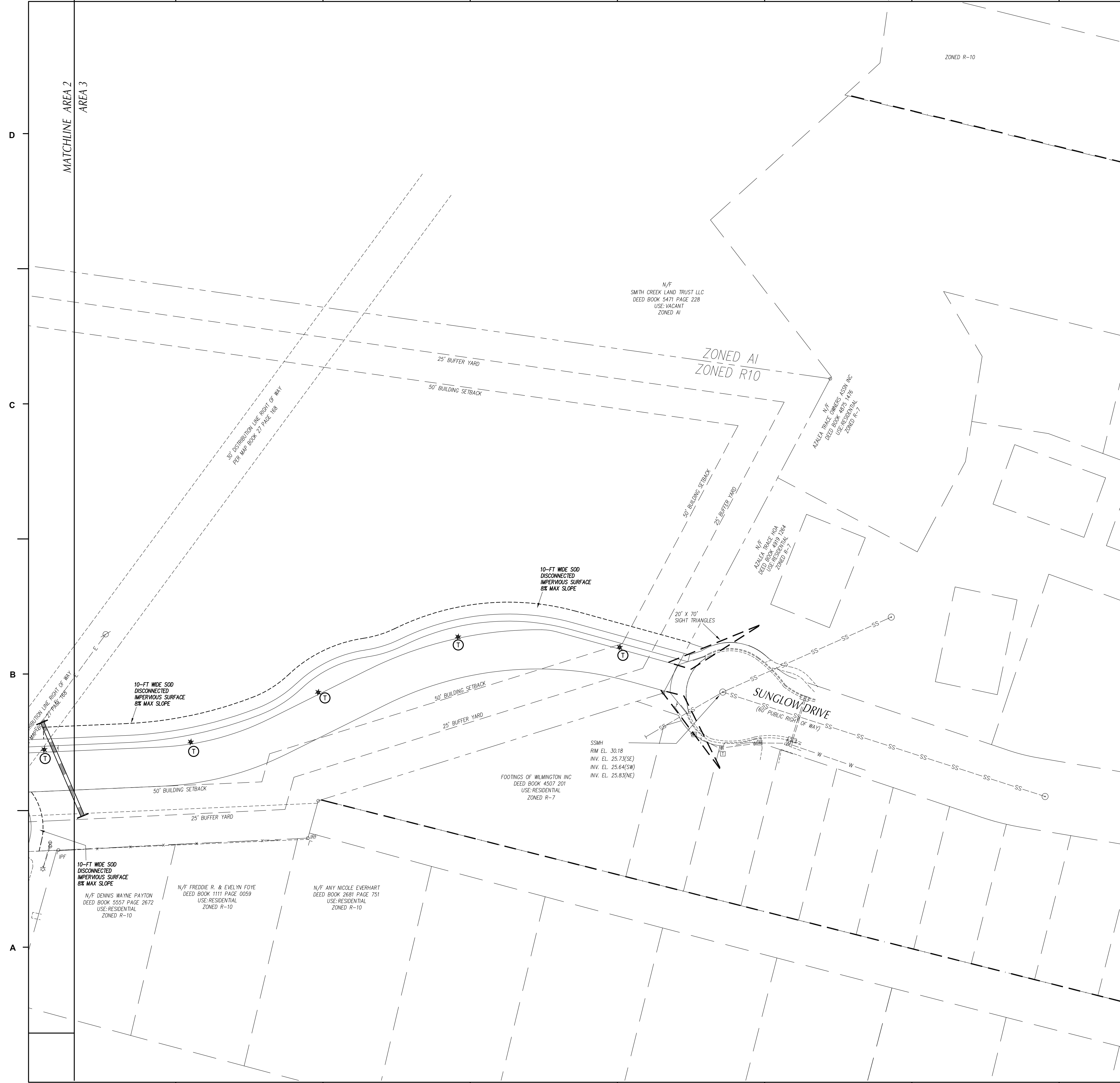
REVISIONS:

No.	Description	Date
1	Design Development	02/02/2018
2	SUP Resubmittal	02/09/2018
3	TRC Resubmittal	03/09/2018

PROJECT: 7201-169350/ (CLH:17-140)  
DATE: DEC 20 2017  
DRAWN BY: ST, GSH, YLA  
CHECKED BY: CLH, GSH, ZRP

**UTILITY PLAN - AREA 2**

**C-502**



### UTILITY LEGEND

	EXISTING	PROPOSED
OVERHEAD ELECTRICAL	--- E ---	— E —
UNDERGROUND ELECTRICAL	--- UE ---	— UE —
GAS	--- G ---	— G —
SANITARY SEWER	--- SS ---	— SS —
TELEPHONE	--- T ---	— T —
UNDERGROUND TELEPHONE	--- UT ---	— UT —
WATER	--- W ---	— W —
FIRE PROTECTION	--- FP ---	— FP —
FORCE MAIN	--- FM ---	— FM —
CHILLED WATER	--- CW ---	— CW —
FOUNDATION DRAIN	--- FD ---	— FD —
FIBER OPTIC	--- FO ---	— FO —
ROOF DRAIN	--- RD ---	— RD —
STORM DRAIN	=== SD ===	— SD —
LIGHT POLE	☆ LP	★
UTILITY POLE	⊙ PP	⊙
MANHOLE	⊙ MH	⊙
CLEAN OUT	⊙ CO	⊙
DROP INLET, CATCH BASIN	⊙ DI, CB	⊙
FIRE HYDRANT	⊙ FH	⊙
WATER VALVE	⊙ WV	⊙
TELEPHONE PEDESTAL	⊙ TP	⊙
COMMUNICATION BOX	⊙ CB	⊙
SANITARY SEWER STRUCTURE I.D.		③
STORM SEWER STRUCTURE I.D.		④

- ### UTILITY NOTES
- INSTALL WATERMANS WITH A COVER OF NO LESS THAN 4'-FT. INSTALL WATER SERVICES WITH NO LESS THAN 18-IN OF COVER TO SUBGRADE.
  - INSTALL SEWER MAINS WITH A COVER OF NO LESS THAN 3'-FT TO FINISHED GRADE UNLESS DUCTILE IRON PIPE IS USED. INSTALL SEWER SERVICES WITH NO LESS THAN 6-IN OF COVER TO SUBGRADE.
  - INSTALL ALL UTILITIES TO PROVIDE REQUIRED CLEARANCES AS INDICATED IN THE SPECIFICATIONS.
  - WATERLINES AND SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM HORIZONTAL CLEARANCE OF 10'-FT.
  - WATER AND SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM VERTICAL CLEARANCE OF 12-IN TO STORM DRAINAGE PIPES.
  - COORDINATE AND SCHEDULE INSTALLATION OF ALL UTILITIES WITH OTHER PRIME CONTRACTORS, UTILITY COMPANIES AND OTHER TRADES INCLUDING BUT NOT LIMITED TO: NATURAL GAS, ELECTRICITY, TELEPHONE AND CABLE.
  - VERIFY EXISTING CONDITIONS AND CONNECTIONS TO EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF ANY DISCREPANCIES ARE DISCOVERED.
  - CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
  - ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE NCSIC AND OSHA REQUIREMENTS.
  - THE CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF ALL UTILITY AND STORM DRAINAGE IMPROVEMENTS FOLLOWING CONSTRUCTION.
  - CONTRACTOR SHALL PHASE DEMOLITION AND NEW CONSTRUCTION TO ENSURE UNINTERRUPTED ACCESS AND UTILITY SERVICE TO ADJACENT FACILITIES. COORDINATE SHORT-TERM, OFF-HOUR, TEMPORARY SHUT-DOWNS WITH THE OWNER.
  - SEE GENERAL NOTES ON EXISTING CONDITIONS AND DEMOLITION PLAN FOR REQUIREMENTS FOR REMOVAL AND PATCHING OF PAVEMENT FOR UTILITY INSTALLATION.
  - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF WILMINGTON STANDARDS AND SPECIFICATIONS.
  - ALL ROOF DRAINS SHALL BE 6" PVC @ 1/4% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 24-IN.
  - ALL SANITARY SEWER SERVICES SHALL BE 4" PVC (SCH 40) @ 1/4% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 24-IN.
  - THE FOLLOWING "PERMITS" ARE REQUIRED TO BE OBTAINED FROM THE CITY OF WILMINGTON FIRE SERVICES ADMINISTRATION BY EACH RESPONSIBLE CONTRACTOR PRIOR TO THE START OF WORK: THE "GENERAL CONTRACTOR" SHALL BE RESPONSIBLE TO MAKE SURE ALL OF HIS/HER SUBS FOLLOW THIS PROCEDURE. THE PERMITS REQUIRED ARE AS FOLLOWS: A. UNDERGROUND PIPING PERMIT (FIRE LINE (S)). B. SPRINKLER PERMIT C. FIRE ALARM PERMIT D. KITCHEN HOOD FIRE PROTECTION PERMIT THE "GENERAL CONTRACTOR" SHALL ALSO MAKE SURE THAT ALL HIS SUBS PROPERLY COORDINATE THE INSPECTION PROCESS WITH THE WILMINGTON FIRE DEPARTMENT ADMINISTRATION OFFICE.
  - CONTACT THE NC ONE CALL CENTER PRIOR TO ANY DIGGING. 1-800-632-4849
  - PROJECT SHALL COMPLY WITH CITY OF WILMINGTON 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.
  - ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CITY WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USPOCCOR OR ASSE.
  - ALL WATER AND SEWER SERVICE LINES TO BE ABANDONED SHALL BE ABANDONED IN ACCORDANCE WITH UPWA SPECIFICATIONS.

- ### KEY NOTES
- (A) FIRE HYDRANT ASSEMBLY, SEE DETAIL SHEET C707.
  - (B) 4" FBOD MASTER SERIES LFBODV REDUCED PRESSURE ZONE PREVENTION ASSEMBLY (RPZA) OR APPROVED EQUAL WITHIN HEATED ENCLOSURE. SEE DETAIL SHEET C707. SEE ELECTRICAL PLANS FOR ADDITIONAL INFO.
  - (C) 4" FBOD MASTER SERIES LFBODV REDUCED PRESSURE ZONE DETECTOR ASSEMBLY (RPZDA) OR APPROVED EQUAL WITHIN HEATED ENCLOSURE. SEE DETAIL SHEET C707. SEE ELECTRICAL PLANS FOR ADDITIONAL INFO.
  - (D) THRUST BLOCKING, TYP. SEE DETAIL SHEET C706.
  - (E) EXTEND WATER MAIN TO 12-IN ABOVE FINISH FLOOR FOR FIRE PROTECTION CONNECTION. SEE DETAIL SHEET C706.
  - (F) POST-INDICATOR VALVE W/ TAMPER SWITCH, SEE DETAIL SHEET C706. SEE ELECTRICAL PLANS FOR ADDITIONAL INFO.
  - (G) TAPPING SLEEVE AND VALVE ASSEMBLY AND BLOCKING, SEE DETAIL SHEET C706.
  - (H) FIRE DEPARTMENT CONNECTION ON BUILDING WALL, SEE FIRE PROTECTION PLANS.
  - (I) GATE VALVE AND VALVE BOX, SEE DETAIL SHEET C706.
  - (J) SANITARY SEWER MANHOLE, SEE DETAIL SHEET C705.
  - (K) EXTEND UTILITY TO WITHIN 5'-0" OF BUILDING WALL OR AS INDICATED ON PLUMBING PLANS. REFER TO PLUMBING PLANS FOR LOCATION & INVERT. PROVIDE AND INSTALL FITTINGS FOR ALL CONNECTIONS.
  - (L) NEW GREASE TRAP, REFER TO PLUMBING PLANS FOR LOCATION & INVERT.
  - (M) SANITARY SEWER CLEAN OUT, SEE DETAIL SHEET C704.
  - (N) 4" DOMESTIC WATER METER, SEE DETAIL SHEET C707.
  - (O) POST INDICATOR VALVE, SEE SPECIFICATIONS.
  - (P) ROOF DRAIN CLEAN OUT, SEE DETAIL SHEET.
  - (Q) IN-LINE DRAIN, SEE DETAIL SHEET.
  - (R) ROOF DRAIN DOWNSPOUT CONNECTION, SEE ARCHITECTURAL PLANS FOR LOCATION AND INVERT.
  - (S) CONNECT TO CONDENSATE RELIEF BASIN BY PLUMBING CONTRACTOR, COORDINATE LOCATION AND INVERT WITH PLUMBING PLANS.
  - (T) LIGHT POLE (APPROXIMATE LOCATION), SEE LIGHTING PLANS FOR ADDITIONAL INFORMATION.

### LIFE AND SAFETY NOTES:

- NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIAL DELIVERED TO THE JOB SITE.
- HYDRANT MUST BE WITHIN 150' OF THE FDC (MEASURES AS THE TRUCK DRIVES FOR PRACTICAL USE).
- FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.
- LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE THE FDC OR FIRE HYDRANTS. A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT AND FDC.
- ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
- ISOLATION VALVES WITHIN THE "HOT BOX" SHALL BE ELECTRICALLY SUPERVISED. PLEASE WORK CLOSELY WITH YOUR SPRINKLER AND ALARM INSTALLER IN REGARDS TO RUNNING WIRE FOR TAMPER SWITCH.

APPROVED CONSTRUCTION PLAN

NAME	DATE
PLANNING _____	_____
TRAFFIC _____	_____
FIRE _____	_____

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: \_\_\_\_\_ Permit # \_\_\_\_\_

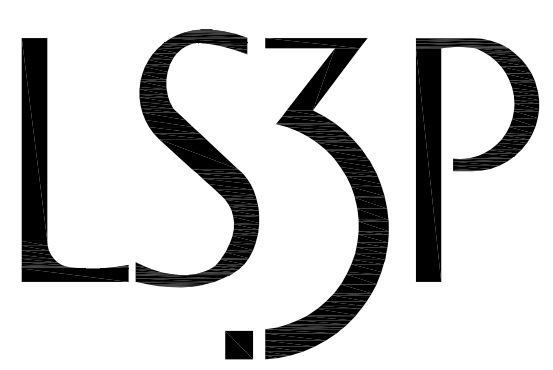
Signed: \_\_\_\_\_

GRAPHIC SCALE

( IN FEET )  
1 inch = 40 ft.



**NEW SCHOOL BUILDING**



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

**NOT FOR CONSTRUCTION**

MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS

COPYRIGHT 2017 ALL RIGHTS RESERVED  
PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM LS3P ASSOCIATES LTD.

REVISIONS:

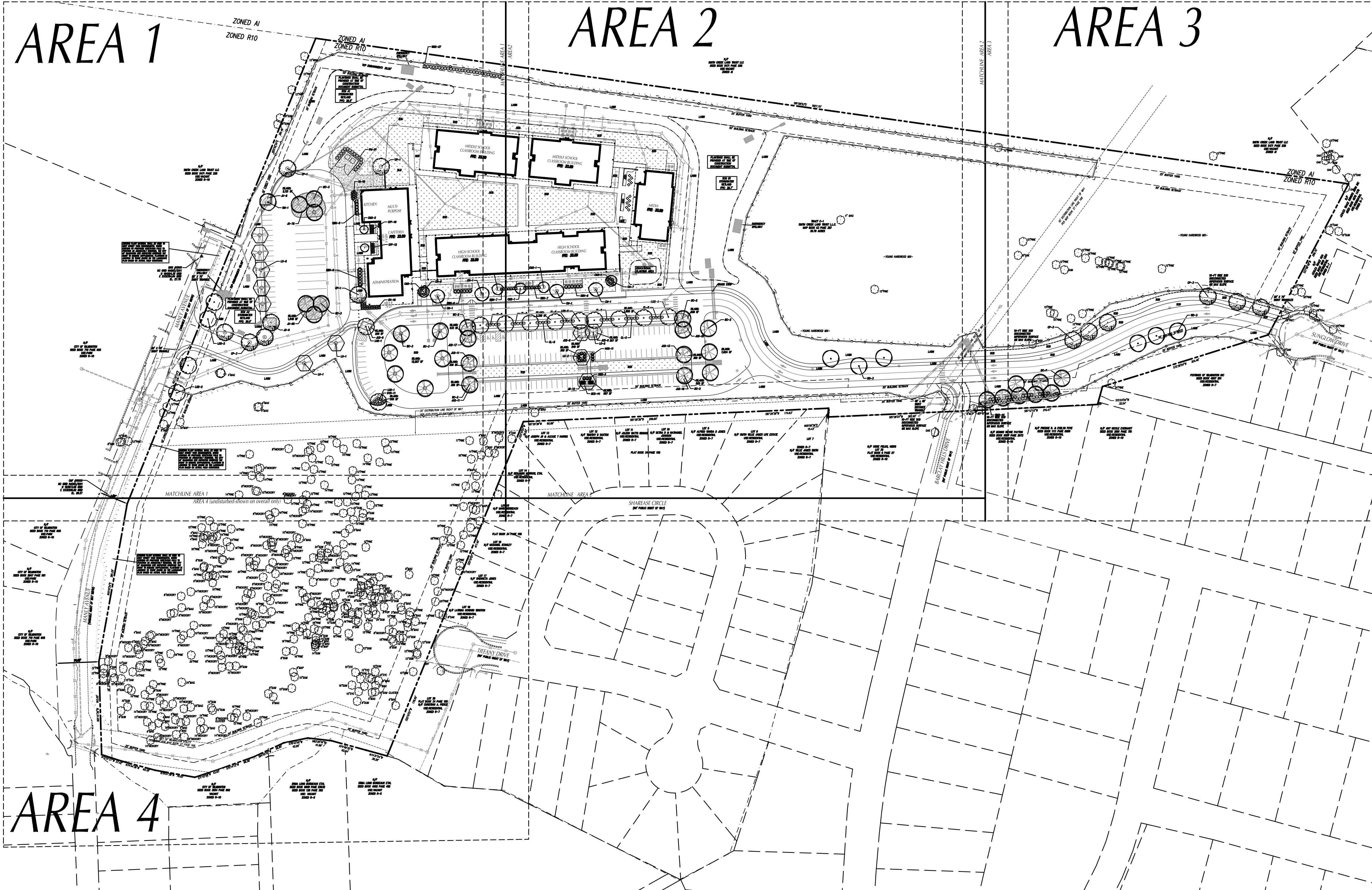
No.	Description	Date
1	Design Development	02/02/2018
2	SUP Resubmittal	02/09/2018
3	TRC Resubmittal	03/09/2018

PROJECT: 7201-169350/ (CLH:17-140)  
DATE: DEC 20 2017  
DRAWN BY: ST, GSH, YLA  
CHECKED BY: CLH, GSH, ZRP

**UTILITY PLAN - AREA 3**

**C-503**

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



**LANDSCAPE CALCULATIONS**

<b>STREET YARD REQUIREMENTS</b>	
STREET YARD FACTOR = 12	
MINIMUM STANDARD: 1 CANOPY TREE (3" CAL. MIN.) - 3 UNDERST. IF PMR. LINE 6 SHRUBS (12" HT. MIN.) OR 6 SHRUBS (36" HT. MIN. IF ADJ. TO A PARKING AREA)	
PER 600 SQ. FT. OF STREETYARD	
PRIMARY STREET YARD: MAINLY AVE. - 8'-18" WIDTH (TO LIMITS OF WORK) SQUARE FEET REQUIRED = 12(943 LF-35 LF) = 10,896 SF MINIMUM STANDARD REQUIRED: 19 CANOPY TREES, 109 SHRUBS	
PROVIDED: 0 NEW CANOPY TREES      0 NEW SHRUBS HUNDREDS OF EXISTING CANOPY TREES >2" EXISTING WOODED AREA TO REMAIN SHALL MEET REQUIREMENTS	
<b>FOUNDATION PLANTING REQUIREMENTS (adjacent to parking or internal drive aisle)</b>	
REQUIREMENT= AREA OF BUILDING FACE X 12%	
<b>FOUNDATION PLANTING: AREA A</b>	
BUILDING FACE = 188 FT. BUILDING HEIGHT = 29.5 FT. PLANTING AREA REQUIRED = 666 SQ. FT. PLANTING AREA PROVIDED = 833 SQ. FT.	
<b>FOUNDATION PLANTING: AREA B</b>	
BUILDING FACE = 78 FT. BUILDING HEIGHT = 29.5 FT. PLANTING AREA REQUIRED = 276 SQ. FT. PLANTING AREA PROVIDED = 320 SQ. FT.	
<b>FOUNDATION PLANTING: AREA C</b>	
BUILDING FACE = 298 FT. BUILDING HEIGHT = 29.5 FT. PLANTING AREA REQUIRED = 879 SQ. FT. PLANTING AREA PROVIDED = 1,299 SQ. FT.	
<b>PARKING AREA PLANTING REQUIREMENTS</b>	
PARKING AREA PERIMETER PLANTINGS: N/A	
<b>PARKING AREA INTERIOR PLANTINGS:</b>	
REQUIREMENT: PLANTING ISLANDS MEASURING 12x18 FEET (216SF) SHALL HAVE AT LEAST 1 TREE. DOUBLE PLANTING ISLANDS MEASURING 12x36 FEET (432SF) SHALL HAVE AT LEAST TWO (2) SMALL MATURE SHADE TREES OR ONE CANOPY TREE. ALL LARGER PLANTING ISLANDS WILL HAVE ADDITIONAL TREES IN INCREMENTS OF ONE (1) TREE FOR EACH ADDITIONAL TWO HUNDRED (200) SQUARE FEET IF INSTALLING SMALL SHADE TREES OR ONE (1) TREE FOR EVERY FOUR HUNDRED (400) SQUARE FEET IF INSTALLING CANOPY TREES. ISLAND MUST HAVE GROUNDCOVER NO PARKING SPACE MORE THAN 120 FEET AWAY FROM AN ISLAND, 75% SHADE TREES.	
<b>PARKING AREA SHADE CALCULATION:</b>	
REQUIREMENT: TOTAL PARKING AREA X 20% = SHADING AREA. TREES IN LANDSCAPE ISLANDS CLAIM 70%-SF TREES ON PERIMETER OF PARKING AREA CLAIM 353-SF	
PROVIDED: 47,766-SF X 20% = 9,553-SF (8) LANDSCAPE ISLAND TREES = 5,656-SF (12) PERIMETER TREES = 3,535-SF TOTAL = 9,897-SF	
PROVIDED: 105,146-SF X 20% = 21,029-SF STAFF/STUDENT (32) LANDSCAPE ISLAND TREES = 22,624-SF LOT TOTAL = 22,624-SF	
PROVIDED: 23,332-SF X 20% = 4,666-SF ENTRANCE (0) LANDSCAPE ISLAND TREES = 0-SF (15) PERIMETER TREES = 5,295-SF TOTAL = 5,295-SF	



**NEW SCHOOL BUILDING**



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



**NOT FOR CONSTRUCTION**

MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS  
COPYRIGHT 2017. ALL RIGHTS RESERVED  
PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM LS3P ASSOCIATES LTD.

REVISIONS:

No.	Description	Date
1	Design Development	02/02/2018
2	SUP Resubmittal	02/09/2018
3	TRC Resubmittal	03/09/2018

PROJECT: 7201-169350/ (CLH:17-140)  
DATE: DEC 20 2017  
DRAWN BY: ST, GSH, YLA  
CHECKED BY: CLH, GSH, ZRP

**OVERALL LANDSCAPE PLAN**

**C-600**

APPROVED CONSTRUCTION PLAN

NAME	DATE
PLANNING _____	_____
TRAFFIC _____	_____
FIRE _____	_____

