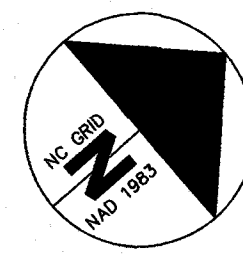
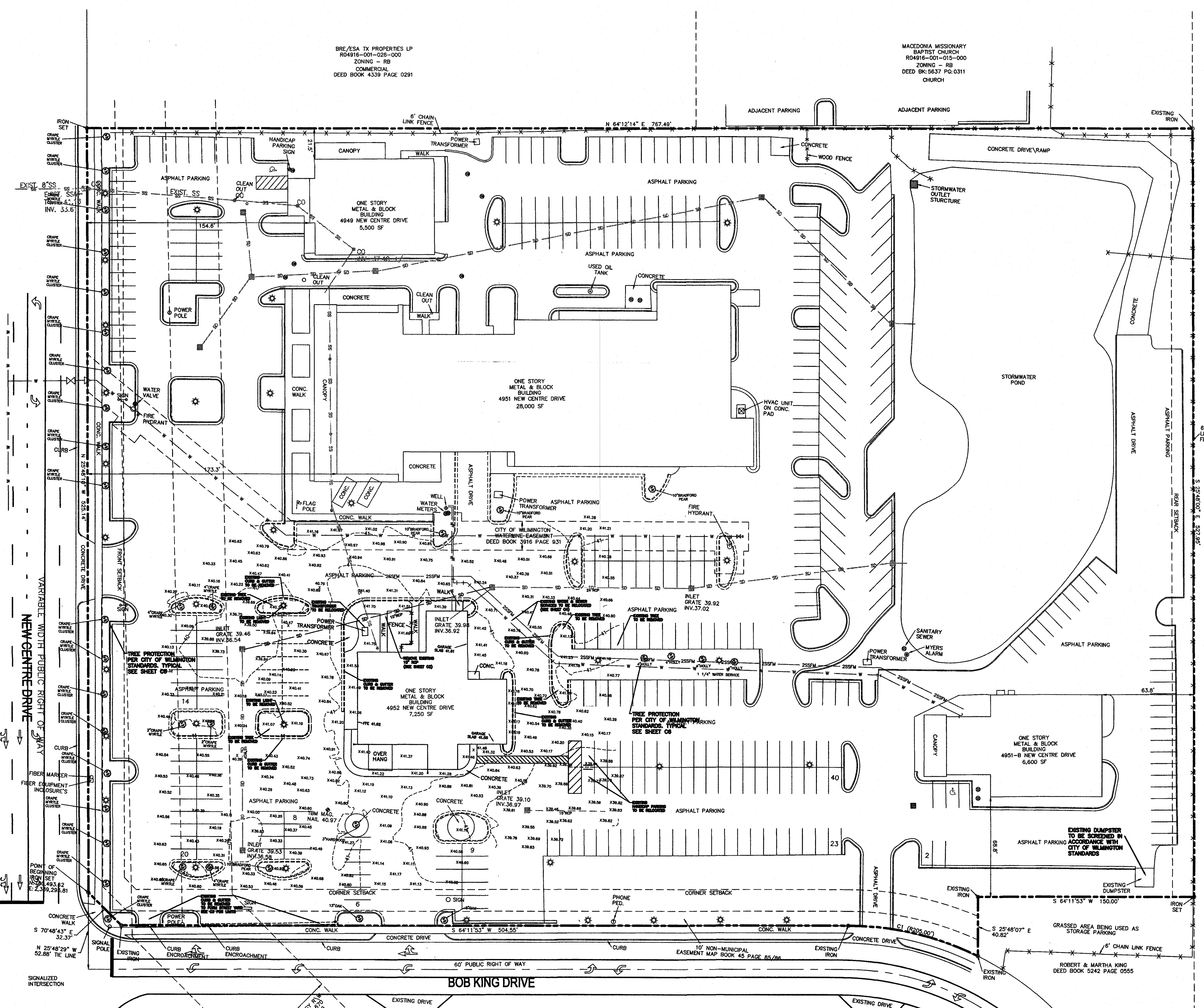


VICINITY MAP
N.T.S.



SITE INVENTORY DATA	
PLAN PREPARER:	NORRIS & TUNSTALL CONSULTING ENGINEERS.
APPLICANT NAME:	J. PHILLIP NORRIS, P.E.
SITE ADDRESS:	4952 NEW CENTRE DRIVE
PROPERTY OWNER:	FLOW 4951 NEW CENTRE LLC
DEVELOPER:	FLOW 4951 NEW CENTRE LLC
PARCEL #:	R04916-001-014-000
ZONING:	RB
ADJACENT PROPERTY OWNER:	SEE SITE PLAN
VICINITY MAP:	SEE PLAN
TOPOGRAPHIC DATA:	SEE PLAN
100 YR FLOOD ELEVATION:	N/A
LOCATION OF WATER FEATURES:	SEE PLAN
SOILS TYPE:	La - LEON FINE SAND, Bc - BAYMEADE FINE SAND Se - SEAGATE FINE SAND, Ly - LYNN HAVEN Mu - MURVILLE
CAMA DATA:	N/A
CAMA CLASSIFICATION:	URBAN
CONSERVATION RESOURCES:	N/A
RECOGNIZED SITE:	NO RECOGNITION
CEMETERIES:	N/A
FORESTED AREAS:	N/A
WETLANDS:	NONE PRESENT
PROTECTED SPECIES:	N/A
TRANSPORTATION DATA:	SEE PLAN

- NOTES:**
1. WATER CAPACITY: 250 GPD.
 2. SEWER CAPACITY: 250 GPD.
 3. EXISTING WATER AND SEWER CONNECTIONS TO BE USED.
 4. SOLID WASTE DISPOSAL: USE EXISTING DUMPSTER OFF-SITE.



Approved Construction Plan	
Name	Date
Planning: Nicole Smith	6/19/19
Traffic: W. [Signature]	6/18/19
Fire: [Signature]	6/18/19

CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: 06/19/19 Permit # 2002043R1

Signed: [Signature] for RAC

LEGEND	
---	PROPERTY LINE
---	RIGHT OF WAY
---	EXISTING CONTOUR
SD	EXISTING STORM DRAIN
SD	EXISTING STORM DRAIN TO BE REMOVED
W	EXISTING WATER SERVICE TO BE REMOVED
2SSFM	EXISTING 2" SS FORCEMAIN TO BE REMOVED
○	EROSION CONTROL AROUND DROP INLET

BY	DATE	DESCRIPTION
		REVISIONS

SITE INVENTORY PLAN
WILMINGTON ACURA
4952 NEW CENTRE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

OWNER:
FLOW 4951 NEW CENTRE, LLC
500 WEST FIFTH ST, SUITE 1800
WINSTON-SALEM, NC 27101
(336) 422-0061
dflow@flowauto.com

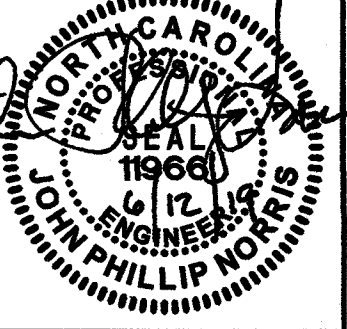
NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.

1900 EASTWOOD RD, SUITE #11 1429 ASHLITTLE RIVER RD, NW
WILMINGTON, NC 28403 ASH, NC 28420
PHONE (910) 345-9653 PHONE (910) 287-5900

License #C-3641
18131

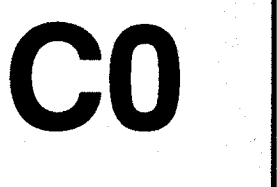
DES. JPN
CHK. JPN
DRWN. EDB

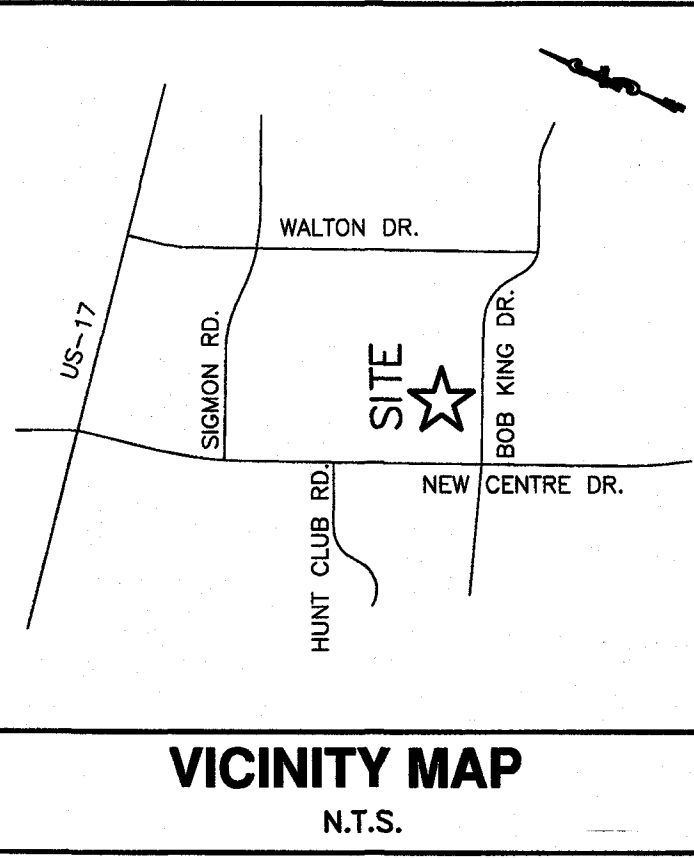
DATE 06/12/19



RECEIVED
JUN 17 2019
PLANNING DIVISION

SCALE: 1" = 40'





Approved Construction Plan

Name	Date
Planning: <i>Nicole Smith</i>	6/18/19
Traffic: <i>W. Smith</i>	6/18/19
Fire: <i>W. Smith</i>	6/18/19

CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: 6/19/19 Permit # 2002043R1
Signed: *Todd Butler for RAC*

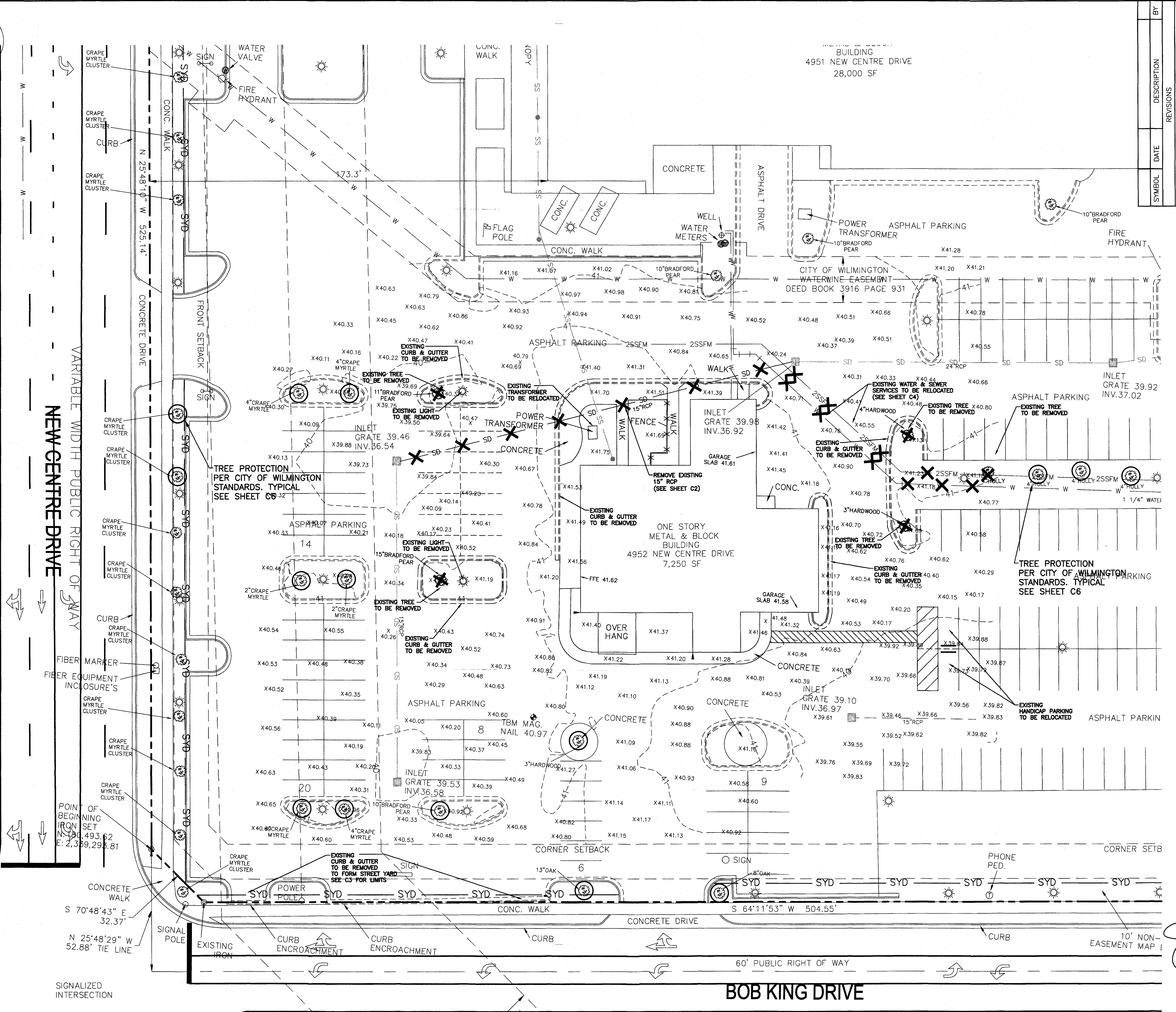
DEMOLITION NOTES:
1. SEE ARCHITECTURAL PLANS FOR BUILDING DEMOLITION.
2. COORDINATE UTILITY DISCONNECTIONS AND RELOCATIONS WITH LOCAL UTILITY PROVIDERS AND CAPE FEAR PUBLIC UTILITY AUTHORITY FOR WATER AND SEWER.

LEGEND

	PROPERTY LINE
	RIGHT OF WAY
	EXISTING CONTOUR
	EXISTING SPOT ELEVATION
	EXISTING STORM DRAIN
	EXISTING STORM DRAIN TO BE REMOVED
	EXISTING WATER SERVICE TO BE REMOVED
	EXISTING 2" SS FORCEMAIN TO BE REMOVED
	EROSION CONTROL AROUND DROP INLET

FLOW ACURA TREE REMOVAL

SPECIES	SIZE	REGULATED/SIGNIFICANT	REQUIRED MITIGATION/EXEMPTION
BRADFORD PEAR	11"	REGULATED	EXEMPT PER SEC. 18-461 (b)
BRADFORD PEAR	15"	REGULATED	EXEMPT PER SEC. 18-461 (b)
HOLLY	4"	REGULATED	EXEMPT PER SEC. 18-461 (b)
HARDWOOD	3"	NOT REGULATED	EXEMPT DUE TO SIZE PER SEC. 18-456 (a)(b)
HARDWOOD	4"	NOT REGULATED	EXEMPT DUE TO SIZE PER SEC. 18-456 (a)(b)



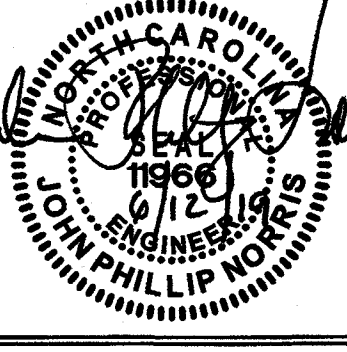
BY	DATE	DESCRIPTION
		REVISIONS

EXISTING CONDITIONS / DEMOLITION PLAN
WILMINGTON ACURA
4952 NEW CENTRE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

OWNER:
FLOW 4951 NEW CENTRE, LLC
500 WEST FIFTH ST, SUITE 1800
WINSTON-SALEM, NC 27101
(336) 422-0061
df@flowwato.com

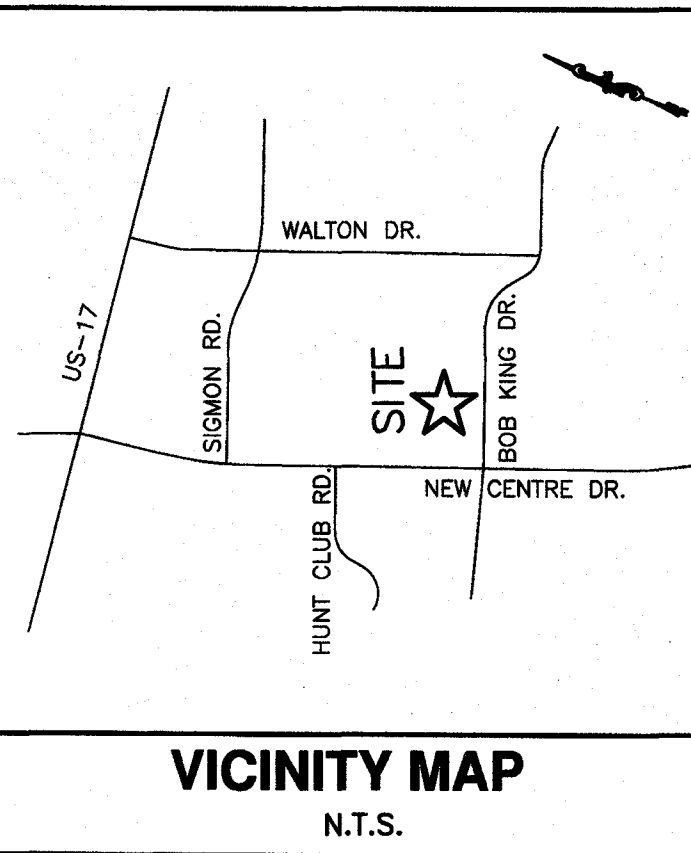
NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
1900 EASTWOOD RD., SUITE #11
WILMINGTON, NC 28403
1429 ASH-LITTLE RIVER RD. NW
ASH, NC 28420
PHONE (910) 345-9653

License #C-3641
18131
DES: JPN
CHK: JFN
DRW: EDB
DATE: 06/12/19



C1

SCALE: 1" = 20'
0 20 40 60



Approved Construction Plan

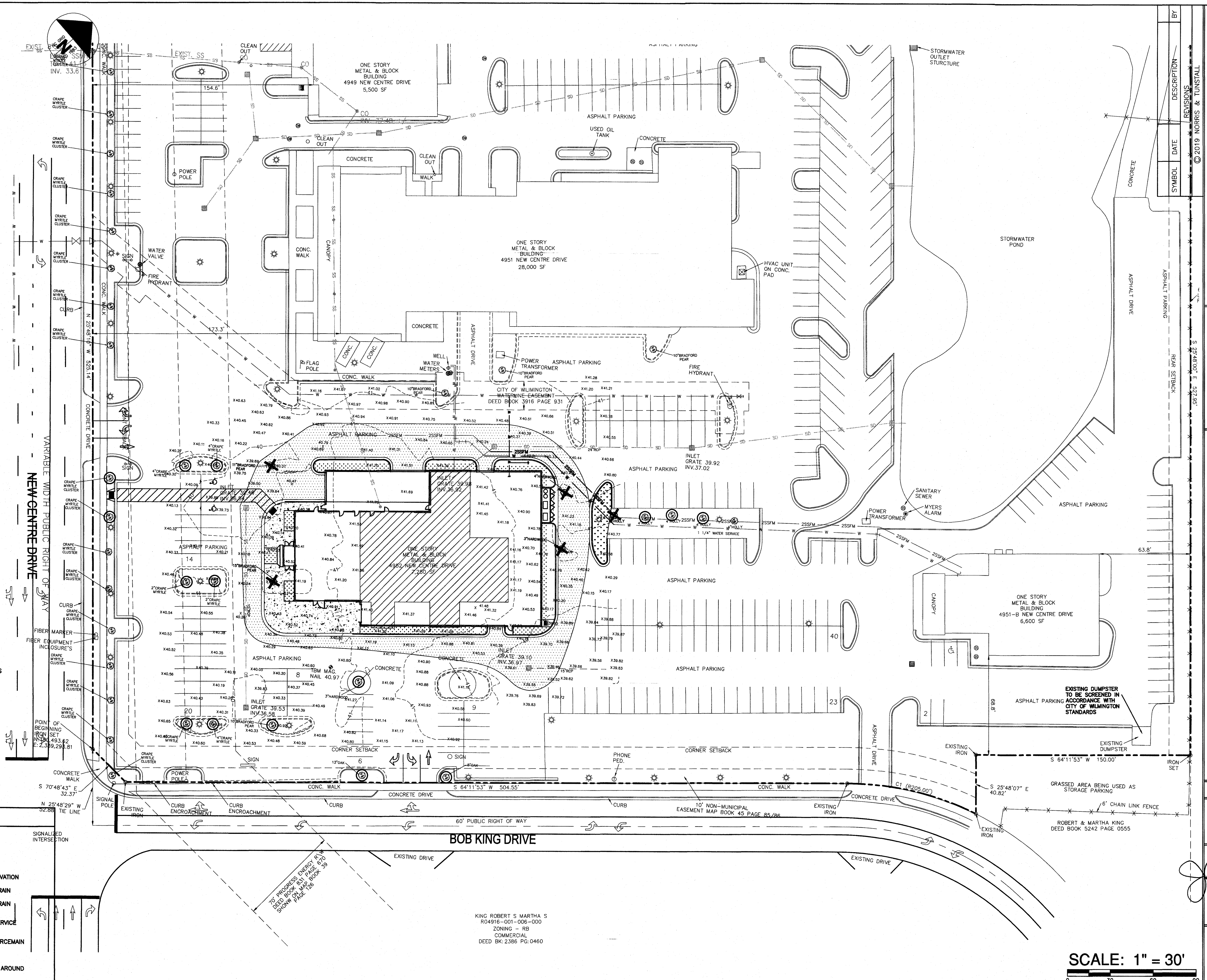
Name	Date
Planning <i>Middle Dmitch</i>	6.18.19
Traffic <i>W. Edwards</i>	6-18-19
Fire <i>Paul Chandler</i>	6/18/19

CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: 6/19/19 Permit # 2002043R1
Signed: *Larry Butler* for RAC

DEMOLITION NOTES:
1. SEE ARCHITECTURAL PLANS FOR BUILDING DEMOLITION.
2. COORDINATE UTILITY DISCONNECTIONS AND RELOCATIONS WITH LOCAL UTILITY PROVIDERS AND CAPE FEAR PUBLIC UTILITY AUTHORITY FOR WATER AND SEWER.

LEGEND

- PROPERTY LINE
- - - RIGHT OF WAY
- - - EXISTING CONTOUR
- - - EXISTING SPOT ELEVATION
- - - EXISTING STORM DRAIN
- X SD X SD X EXISTING STORM DRAIN TO BE REMOVED
- X W X W X EXISTING WATER SERVICE TO BE REMOVED
- X 2SSFM X 2SSFM X EXISTING 2" SS FORCEMAIN TO BE REMOVED
- EROSION CONTROL AROUND DROP INLET



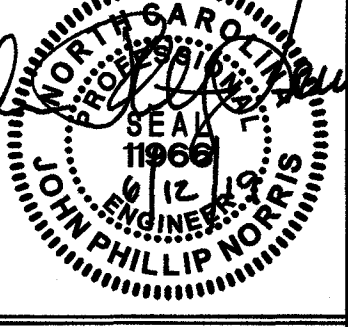
BY	REVISIONS	DESCRIPTION

SITE OVERLAY
WILMINGTON ACURA
4952 NEW CENTRE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

OWNER:
FLOW 0951 NEW CENTRE, LLC
500 WEST FIFTH ST, SUITE 1800
WINSTON-SALEM, NC 27101
(336) 422-0061
dflow@flowauto.com

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
100 EASTWOOD RD., SUITE #11
1429 ASH-LITTLE RIVER RD., NW
WINSTON-SALEM, NC 27157
PHONE: (910) 343-9633

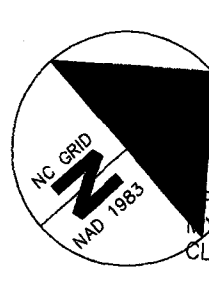
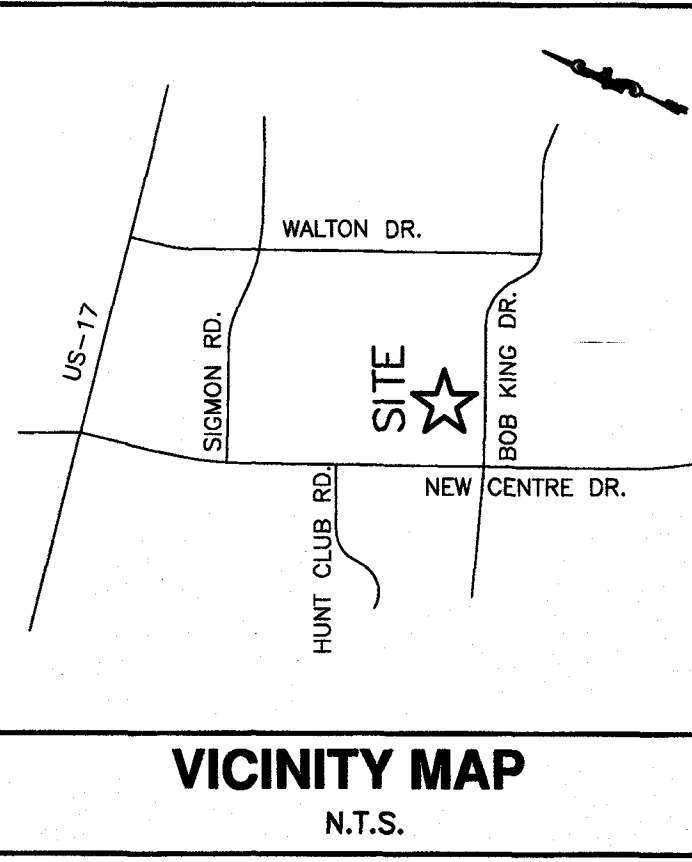
License #C-3641
18131
DES. JPN
CHK. JPN
DRWN. EDB
DATE 06/12/19



KING ROBERT S MARTHA S
R04916-001-006-000
ZONING - RB
COMMERCIAL
DEED BK: 2366 PG: 0460

SCALE: 1" = 30'

C1.1

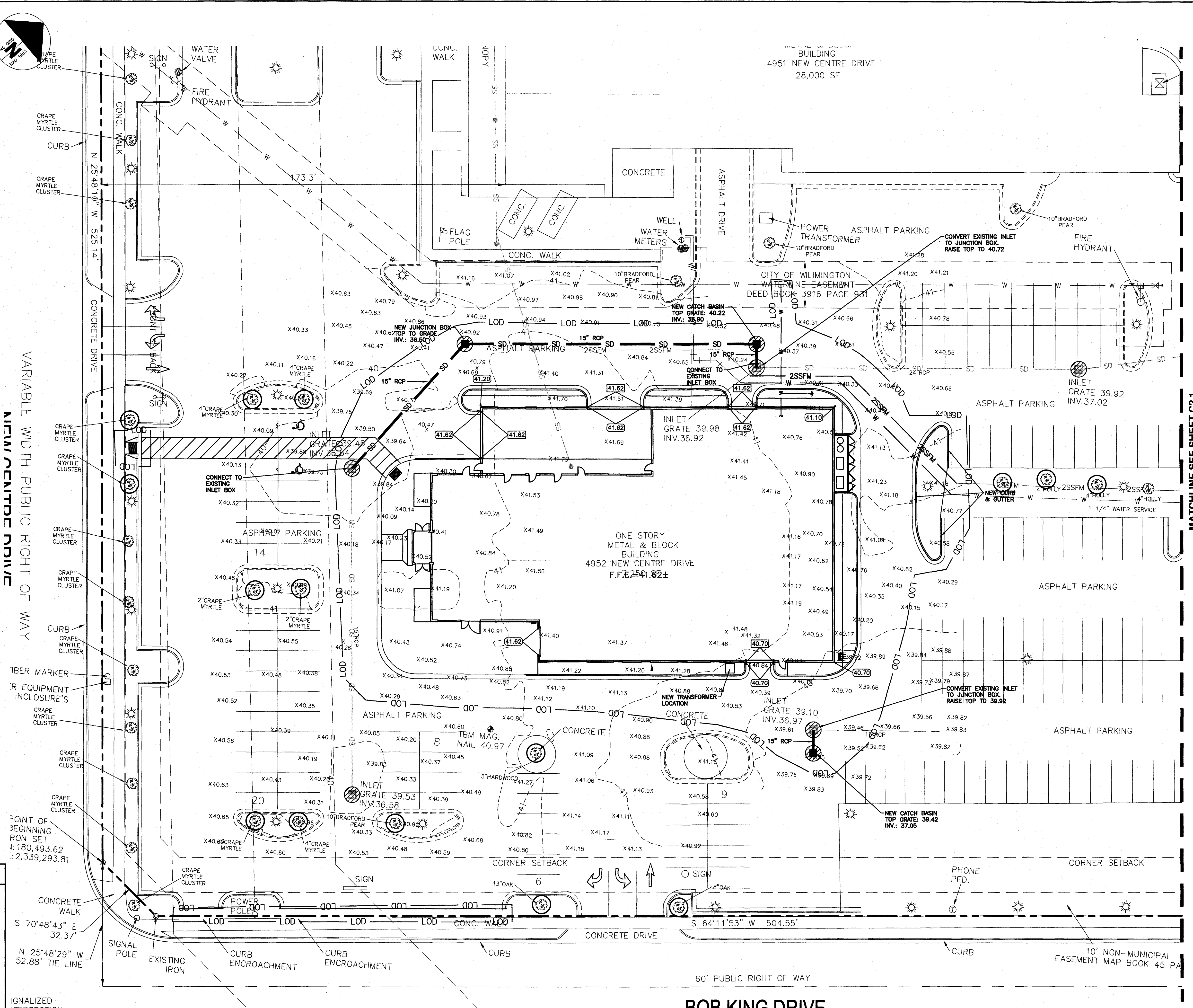


VARIABLE WIDTH PUBLIC RIGHT OF WAY
NEW CENTRE DRIVE

Approved Construction Plan		
Name	Date	
Planning: <i>Nick Smith</i>	6.18.19	
Traffic: <i>W. Smith</i>	6.18.19	
Fire: <i>Chad Chandler</i>	6.18.19	

CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: 6/19/19 Permit # 2002043 R1
Signed: *Trent Butler* for RAC

LEGEND	
	PROPERTY LINE
	RIGHT OF WAY
	EXISTING CONTOUR
	EXISTING SPOT ELEVATION
	EXISTING CONTOUR
	EROSION CONTROL AROUND DROP INLET
	PROPOSED CONTOUR
	PROPOSED TOP OF CURB/SIDEWALK
	PROPOSED FINISHED GRADE
	LIMITS OF DISTURBANCE
	TEMPORARY SILT FENCE



MATCHLINE SEE SHEET C2.1

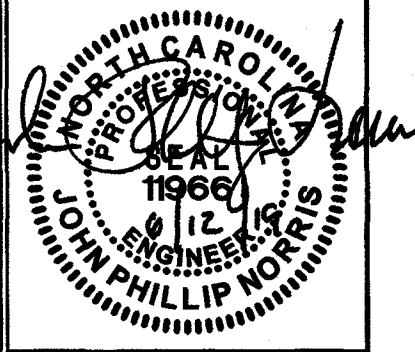
SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

GRADING PLAN
WILMINGTON ACURA
4952 NEW CENTRE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

OWNER:
FILOW 4951 NEW CENTRE, LLC
500 WEST FIFTH ST, SUITE 1800
WINSTON-SALEM, NC 27101
(336) 422-0061
dfilow@firowauto.com

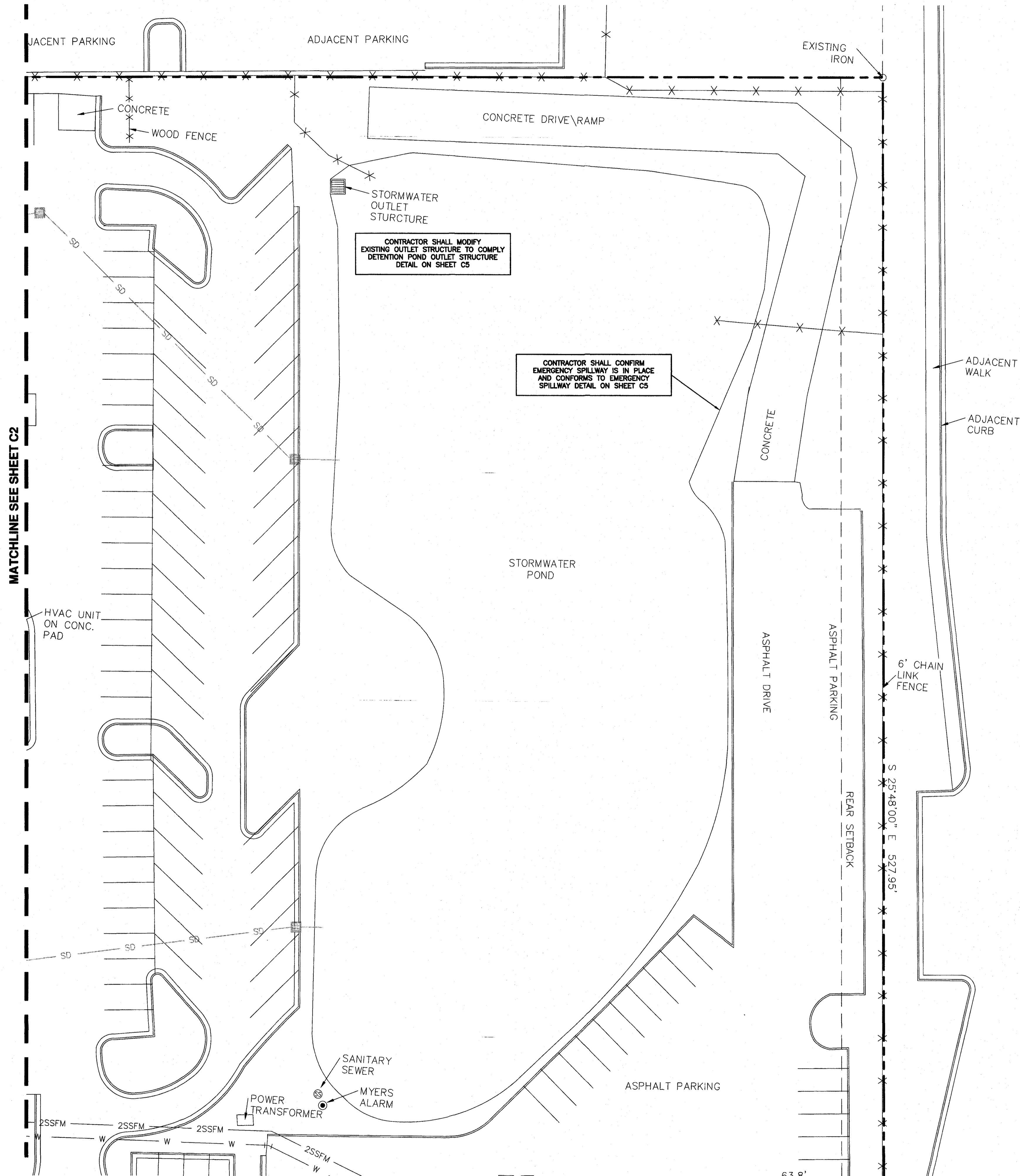
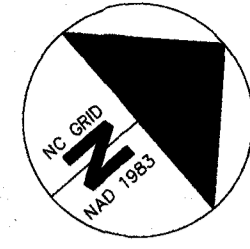
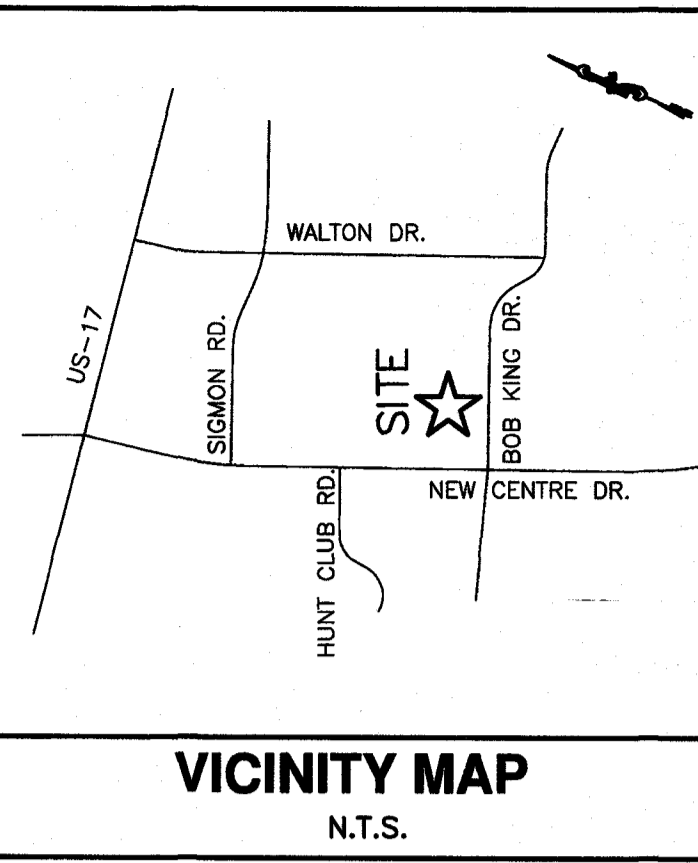
NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
1000 EASTWOOD RD, SUITE #1
WILMINGTON, NC 28403
PHONE (910) 343-9653

Licence #C-3641	
18131	
DES.	JPN
CHK.	JPN
DRWN.	EDB
DATE	06/12/19



SCALE: 1" = 20'
0 20 40 60

C2



MATCHLINE SEE SHEET C2

Approved Construction Plan	
Name	Date
Planning: <i>Nicole D. Smith</i>	6.18.19
Traffic: <i>W. Smith</i>	6.18.19
Fire: <i>Chad Charles</i>	6.18.19

CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN
Date: 6/19/19 Permit # 2002043 R1
Signed: *Trent Palmer for RAC*

LEGEND

	PROPERTY LINE
	RIGHT OF WAY
	EXISTING CONTOUR
	EXISTING SPOT ELEVATION
	EXISTING CONTOUR
	EROSION CONTROL AROUND DROP INLET
	PROPOSED CONTOUR
	PROPOSED TOP OF CURB/SIDEWALK
	PROPOSED FINISHED GRADE
	LIMITS OF DISTURBANCE
	TEMPORARY SILT FENCE

SYMBOL	DATE	DESCRIPTION	BY
REVISIONS			
© 2019 NORRIS & TUNSTALL			

GRADING PLAN
WILMINGTON ACURA
4952 NEW CENTRE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

OWNER:
FLOW 951 NEW CENTRE, LLC
300 WEST FIFTH ST, SUITE 1800
WINSTON-SALEM, NC 27101
(336) 722-0661
flow@flowauto.com

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.

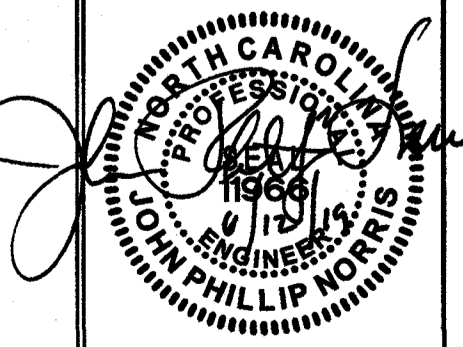
1900 EASTWOOD RD., SUITE #11 1429 ASH-LITTLE RIVER RD., NW
WILMINGTON, NC 28403 ASH, NC 28420
PHONE (910) 343-9653 PHONE (910) 287-5900

Licence #C-3641

18131

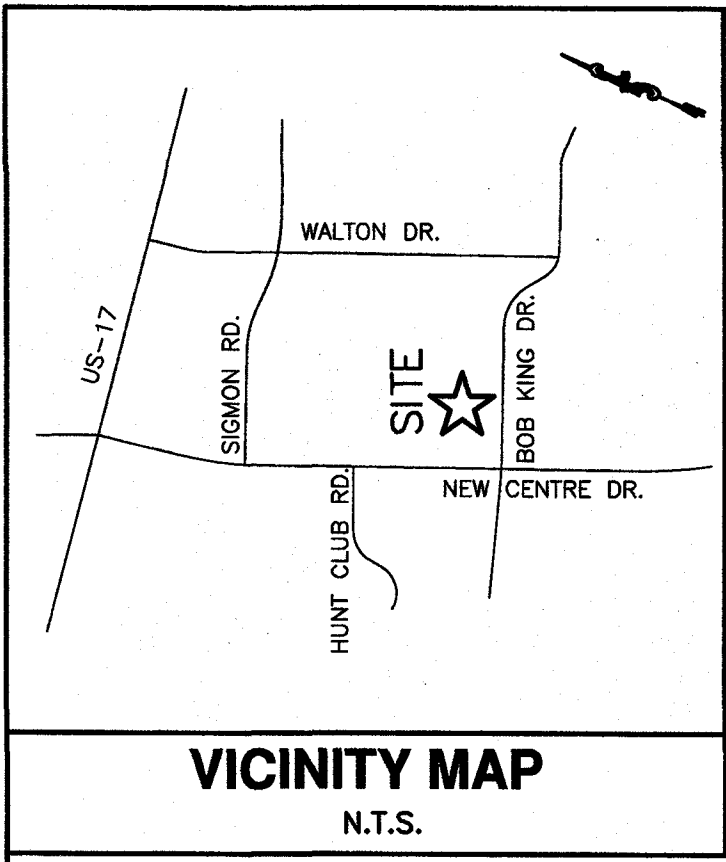
DES. JPN
CRO. JPN
DRWN. EDB

DATE 06/12/19



SCALE: 1" = 20'

C2.1



VICINITY MAP
N.T.S.

Approved Construction Plan

Name	Date
Planning: Nicole Smith	6-18-19
Traffic: W. Smith	6-18-19
Fire: Chad Orndorff	6-18-19

WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: 6/19/19 Permit # 2002043R1
Signed: *Just Bratten for RAC*

- NOTES:**
1. ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
 2. ALL SIGNS AND PAVEMENT MARKINGS IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS. (SD 11-13 AND SD 15-13). SEE SHEET C6.
 3. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
 4. ANY BROKEN OR MISSING SIDEWALK PANELS AND CURBING WILL BE REPLACED.
 5. 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.
 6. IF PAVEMENT MARKINGS ON SITE HAVE WEATHERED TO THE POINT THEY ARE NOT IN ACCORDANCE WITH THE MUTCD STANDARD OF MAINTENANCE, IT IS DEVELOPER'S RESPONSIBILITY TO MAINTAIN IT IN ACCORDANCE.
 7. ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30'-10'.
 8. 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 PLAN.
 9. EXISTING DUMPSTER TO BE SCREENED IN ACCORDANCE WITH CITY OF WILMINGTON STANDARDS.

SITE DATA

PARCEL #: R04916-001-014-000
ZONING: RB
TOTAL AREA: 10.01 AC / 436,036 SF
EXISTING BUILDING SF: (SITE) 47,350 SF
EXISTING BUILDING SF: 7,230 SF (FLOW ACURA ONLY)
% EXISTING BUILDING TO REMAIN: 56% (FLOW ACURA ONLY)
PROPOSED BUILDING SF: 17,422 SF (FLOW ACURA ONLY)
BUILDING LOT COVERAGE: 13.84% ((17,422+7,230+2,828+30,506)/417,740)
NUMBER OF BUILDINGS: 4 EXISTING (1 EXISTING TO BE RENOVATED)
BUILDING HEIGHT: 29 FEET
BUILDING CONSTRUCTION TYPE: IB
NUMBER OF STORIES: 1 (FLOW ACURA ONLY)
SF PER FLOOR: 17,422 SF (FLOW ACURA ONLY)

SETBACKS:

FRONT:	25'
REAR:	15'
CORNER SIDE:	25'

EX. PARKING:

EX SPACES:	536 SPACES (INCLUDES 2 HANDICAP)
EX SPACES TO BE REMOVED:	20 SPACES
EX SPACES TO REMAIN:	516 SPACES (INCLUDES 2 HANDICAP)

PARKING REQUIRED:

REQUIRED: (RESTAURANT) 1 SPACE PER 4 SEATS (66 / 4) = 16.5 SPACES
REQUIRED: (AUTOMOTIVE DEALERSHIP) 1 SPACE PER 500 SF (52,022 / 500) = 104.04 SP
PARKING REQUIRED TOTAL: 120.54 (121)

PARKING:

CUSTOMER PARKING:	121 SPACES
DISPLAY PARKING:	397 SPACES
TOTAL SPACES:	518 SPACES (INCLUDES 2 HANDICAP)

BICYCLE PARKING REQUIRED:

REQUIRED: 5 BICYCLE SPACES PER 100 CAR SPACES
121 CAR SPACES REQUIRED = 10 BICYCLE SPACES

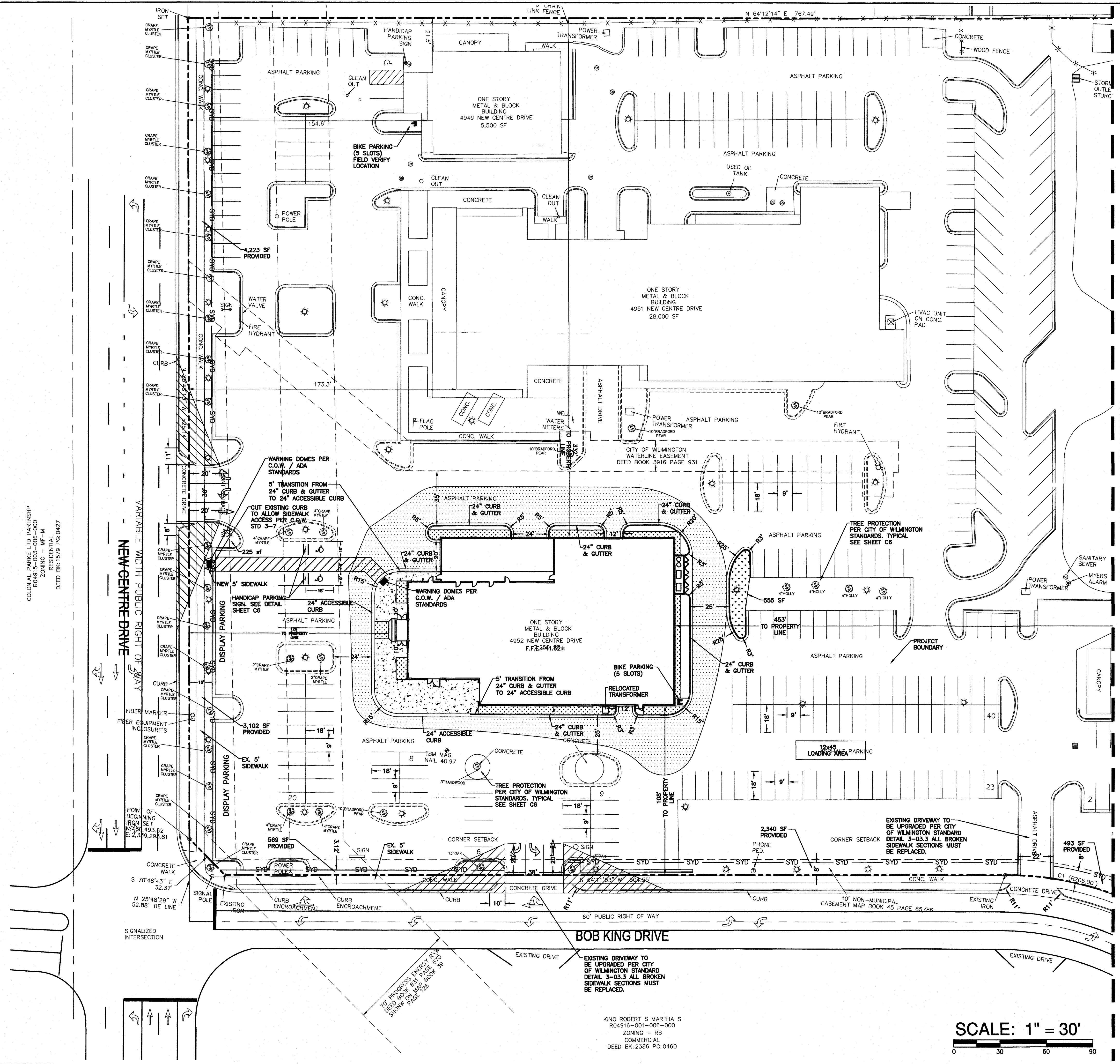
TOTAL PERMITTED IMPERVIOUS: 353,425 SF
TOTAL EXISTING IMPERVIOUS: 280,557 SF
EXISTING IMPERVIOUS TO BE REMOVED: 33,862 SF
IMPERVIOUS TO BE INSTALLED: 35,283 SF
NET INCREASE: 1,401 SF
TOTAL IMPERVIOUS AFTER THIS PROJECT: 281,958 SF
% IMPERVIOUS: 64.66%

LANDSCAPING REQUIRED: INTERIOR

REQUIRED: 4%
DRIVE ISLE: 220,154 SF
220,154 x .04 = 8,806 SF
LANDSCAPING PROVIDED: INTERIOR 15,788 SF

STREET YARD:

PRIMARY: REQUIRED (536-36) 12.5 = 6,250.75 SF
SECONDARY: REQUIRED (605-(38+24)) 6.25 = 3,394 SF
PRIMARY: PROVIDED 7,325 SF
SECONDARY: PROVIDED 3,402 SF



BY	REVISIONS	
SYMBOL	DATE	DESCRIPTION

LAYOUT PLAN
WILMINGTON ACURA
4952 NEW CENTRE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

OWNER:
FLOW 4951 NEW CENTRE, LLC
500 WEST FIFTH ST, SUITE 1800
WINSTON-SALEM, NC 27101
df@flowauto.com

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.

1900 EASTWOOD RD., SUITE #11 1429 ASH-LITTLE RIVER RD. NW
WILMINGTON, NC 28403 ASH, NC 28420
PHONE (910) 345-9653 PHONE (910) 287-5900

License #C-3641
18131

DES: JPN
CHK: JPN
DRWN: EDB

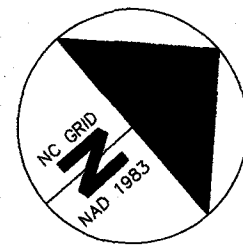
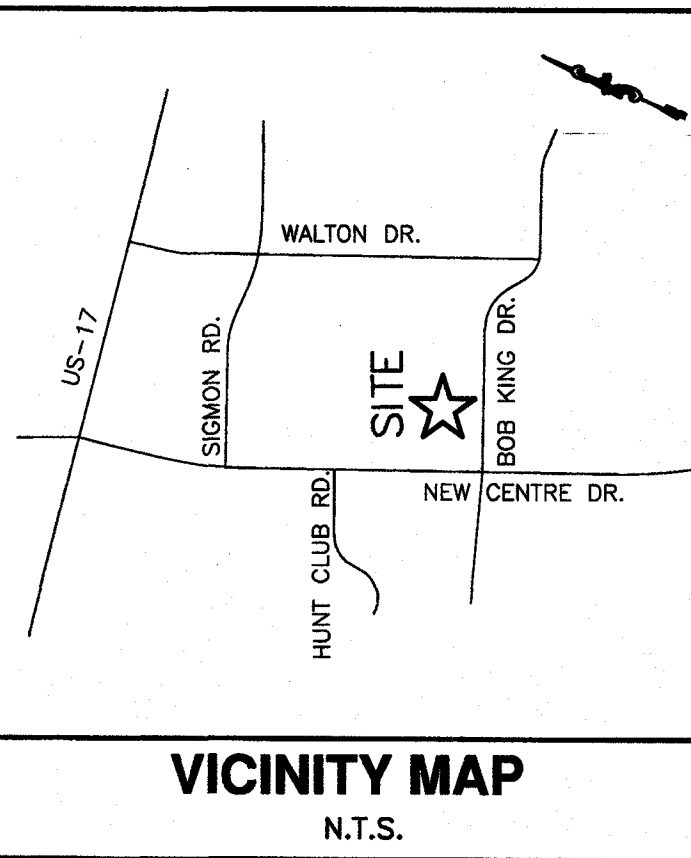
DATE: 06/12/19

C3

MATCHLINE SEE SHEET C3.1

SCALE: 1" = 30'

KING ROBERT S MARTHA S
R04916-001-006-000
ZONING - RB
COMMERCIAL
DEED BK: 2366 PG: 0460

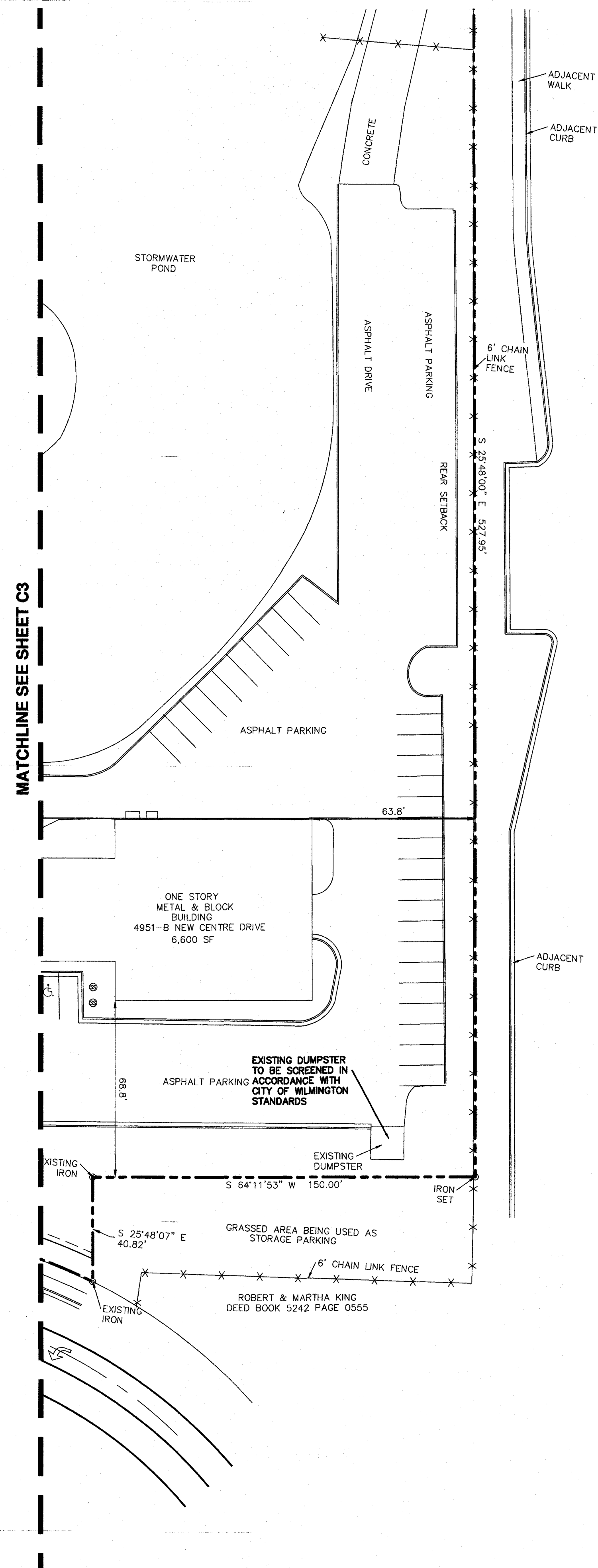


Approved Construction Plan	
Name	Date
Planning: <i>Nicole Smith</i>	6-18-19
Traffic: <i>W. Salcedo</i>	6-18-19
Fire: <i>Carl Chisler</i>	6-18-19

CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN
Date: 6/19/19 Permit # 2002043R1
Signed: *Timothy B. Williams* for RAC

- NOTES:
- ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS. (SD 11-03 AND SD 15-13). SEE SHEET C6.
 - ALL SIGNS AND PAVEMENT MARKINGS IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS. (SD 15-13) SEE SHEET C6.
 - ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
 - ANY BROKEN OR MISSING SIDEWALK PANELS AND CURBING WILL BE REPLACED.
 - 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.
 - IF PAVEMENT MARKINGS ON SITE HAVE WEATHERED TO THE POINT THEY ARE NOT IN ACCORDANCE WITH THE MUTCD STANDARD OF MAINTENANCE, IT IS DEVELOPER'S RESPONSIBILITY TO MAINTAIN IT IN ACCORDANCE.
 - ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 35'-10'.
 - 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 PLAN.
 - EXISTING DUMPSTER TO BE SCREENED IN ACCORDANCE WITH CITY OF WILMINGTON STANDARDS.



WAL-MART STORES EASE INC.
R04916-001-036-000
ZONING - RB
COMMERCIAL
DEED BK:3335 PG:0461
RETAIL - WALMART

SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

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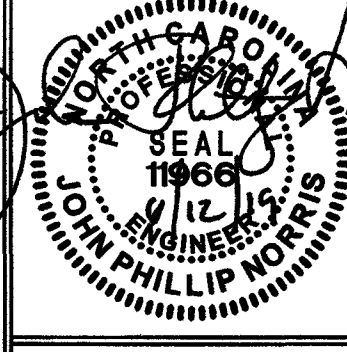
LAYOUT PLAN
WILMINGTON ACURA
4952 NEW CENTRE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

OWNER:
FLOW 4951 NEW CENTRE, LLC
500 WEST FIFTH ST, SUITE 1800
WINSTON-SALEM, NC 27101
(316) 422-0061
dflow@flowauto.com

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
1900 EASTWOOD RD., SUITE #11 WILMINGTON, NC 28405
PHONE (910) 346-9665

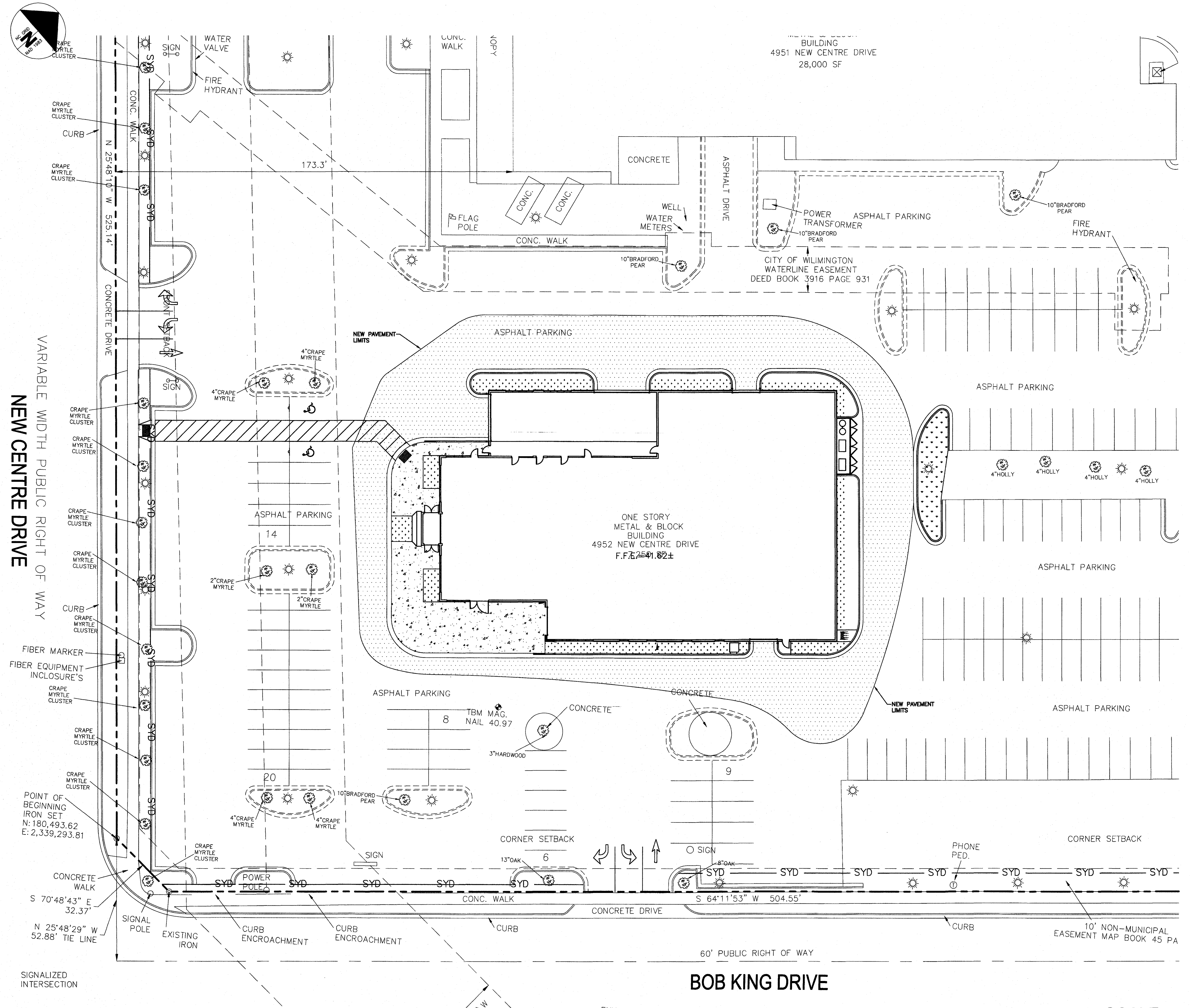
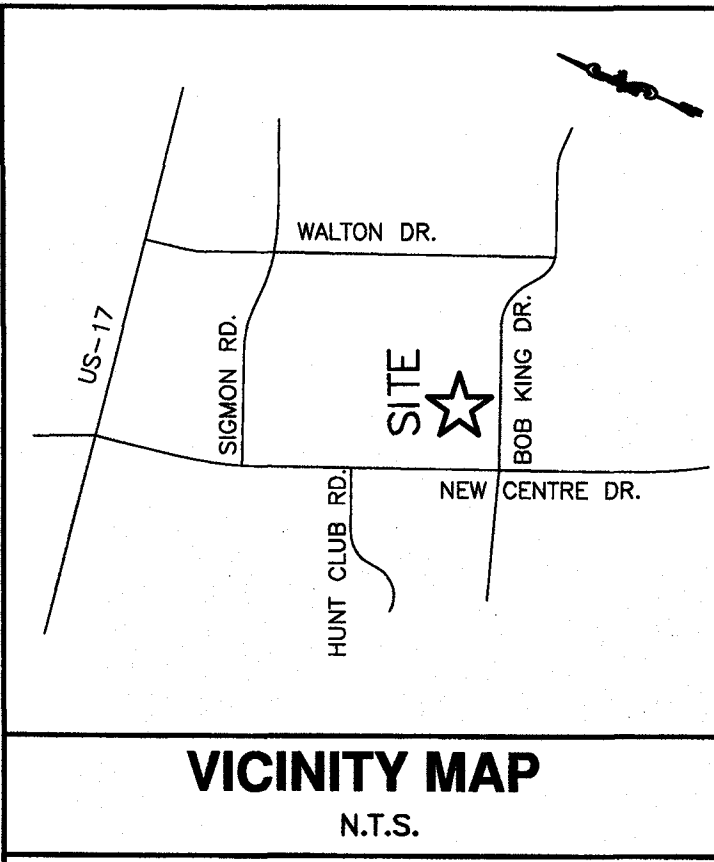
Licence #C-3641

18131
DES: JPN
C.D.: JPN
DRWN: EDB
DATE: 06/12/19



SCALE: 1" = 20'

C3.1



VARIABLE WIDTH PUBLIC RIGHT OF WAY
 NEW CENTRE DRIVE

Approved Construction Plan	
Name	Date
Planning: <i>Nicole Smith</i>	6.19.19
Traffic: <i>W. Smith</i>	6.18.19
Fire: <i>Paul Chade</i>	6.18.19

CITY OF WILMINGTON
 NORTH CAROLINA
 Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
 Date: 6/19/19 Permit # 2002043R1
 Signed: *Paul Bottom* for RAC

SYMBOL	DATE	DESCRIPTION	BY
REVISIONS			
© 2019 NORRIS & TUNSTALL			

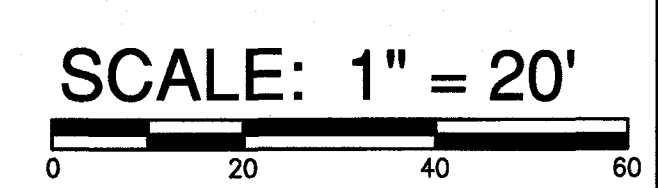
PAVING PLAN
WILMINGTON ACURA
4952 NEW CENTRE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

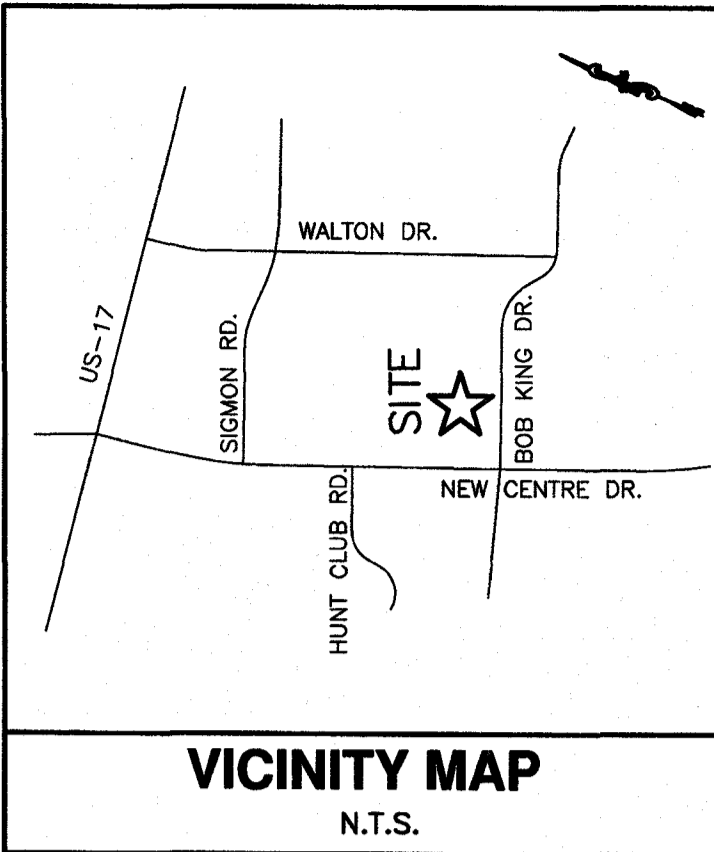
OWNER:
 FLOW 4951 NEW CENTRE, LLC
 500 WEST FIFTH ST, SUITE 1800
 WINSTON-SALEM, NC 27101
 (336) 422-0061
 dflo@flowauto.com

NORRIS & TUNSTALL
 CONSULTING ENGINEERS P.C.
 1900 EASTWOOD RD, SUITE #11
 WILMINGTON, NC 28403
 PHONE (910) 343-9653
 1429 ASHLITTLE RIVER RD, NW
 ASH, NC 28420
 PHONE (910) 287-5900

Licence #C-3641
18131
 DES: JPN
 CDR: JPN
 DRWN: EDB
 DATE: 06/12/19

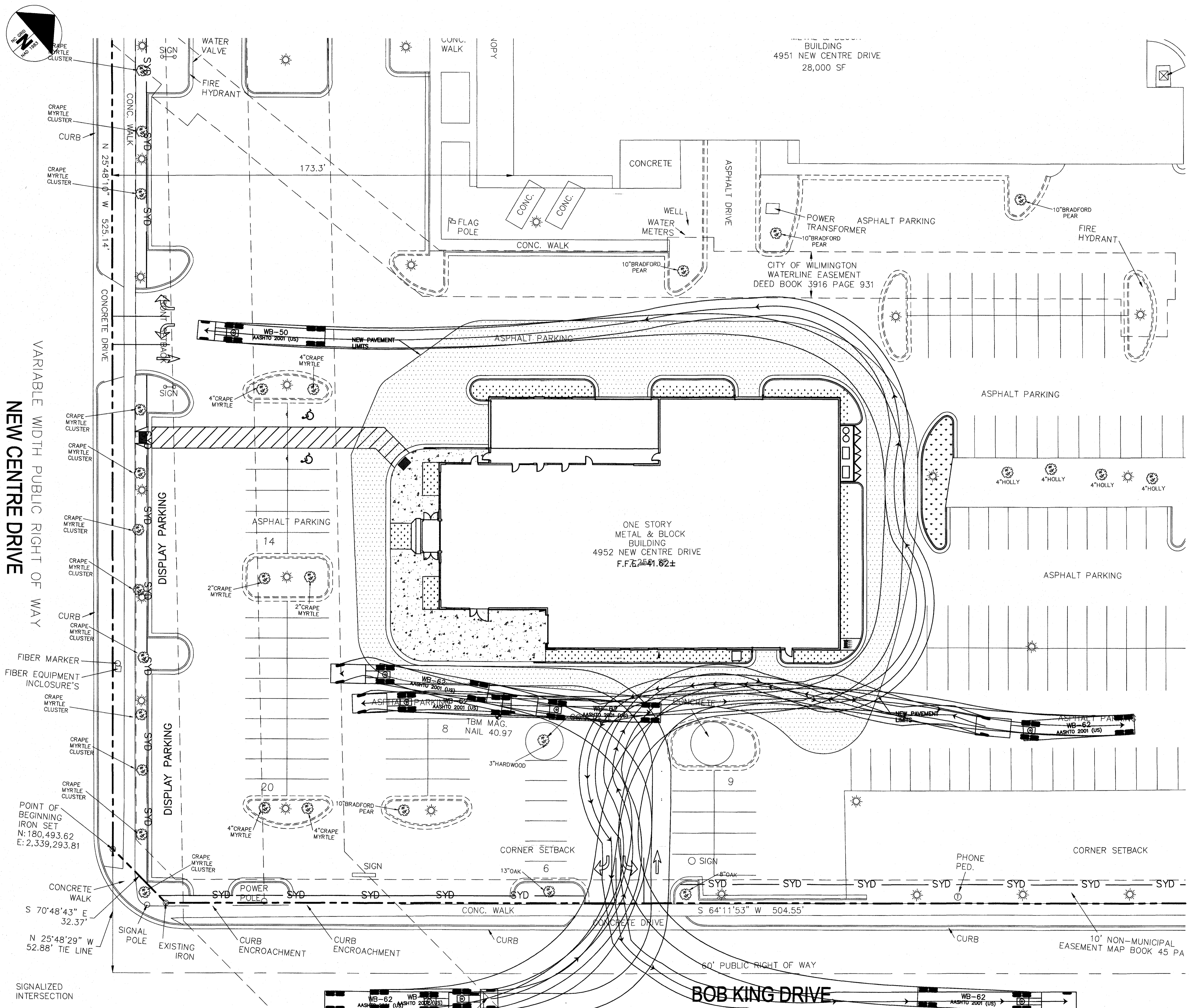
C3.2





Approved Construction Plan		
Name	Date	
Planning <i>Nicole Smith</i>	6-18-19	
Traffic <i>W. Smith</i>	6-18-19	
Fire <i>Paul Anderson</i>	6-18-19	

CITY OF WILMINGTON
 NORTH CAROLINA
 Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
 Date: 6/19/19 Permit # 2002043R1
 Signed: *Trent Butler* for RAC



VARIABLE WIDTH PUBLIC RIGHT OF WAY
 NEW CENTRE DRIVE

POINT OF BEGINNING IRON SET
 N: 180,493.62
 E: 2,339,293.81

SIGNALIZED INTERSECTION
 S 70°48'43" E 32.37'
 N 25°48'29" W 52.88' TIE LINE

SCALE: 1" = 20'
 0 20 40 60

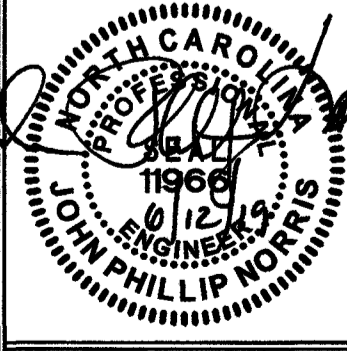
SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

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TRUCK ROUTE
WILMINGTON ACURA
4952 NEW CENTRE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

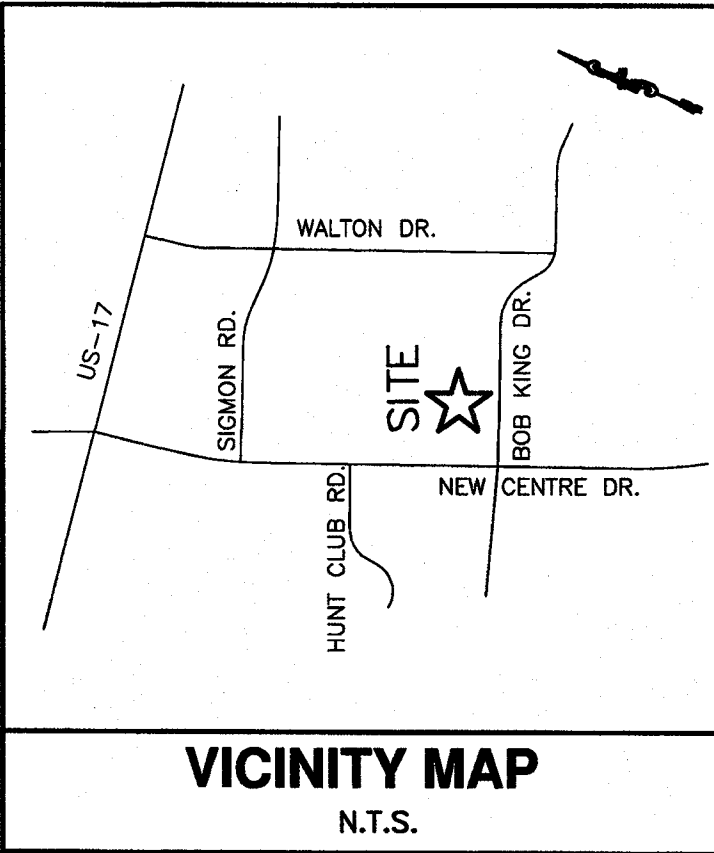
OWNER:
 FLOW 4951 NEW CENTRE, LLC
 500 WEST FIFTH ST, SUITE 1800
 WINSTON-SALEM, NC 27101
 (336) 422-0061
 dtbow@flowauto.com

NORRIS & TUNSTALL
 CONSULTING ENGINEERS P.C.
 1000 EASTWOOD RD, SUITE #11
 WILMINGTON, NC 28403
 PHONE (910) 344-9653

Licence #C-3641
18131
 DES. JPN
 CVD. JPN
 DRWN. EDB
 DATE 06/12/19



C3.3



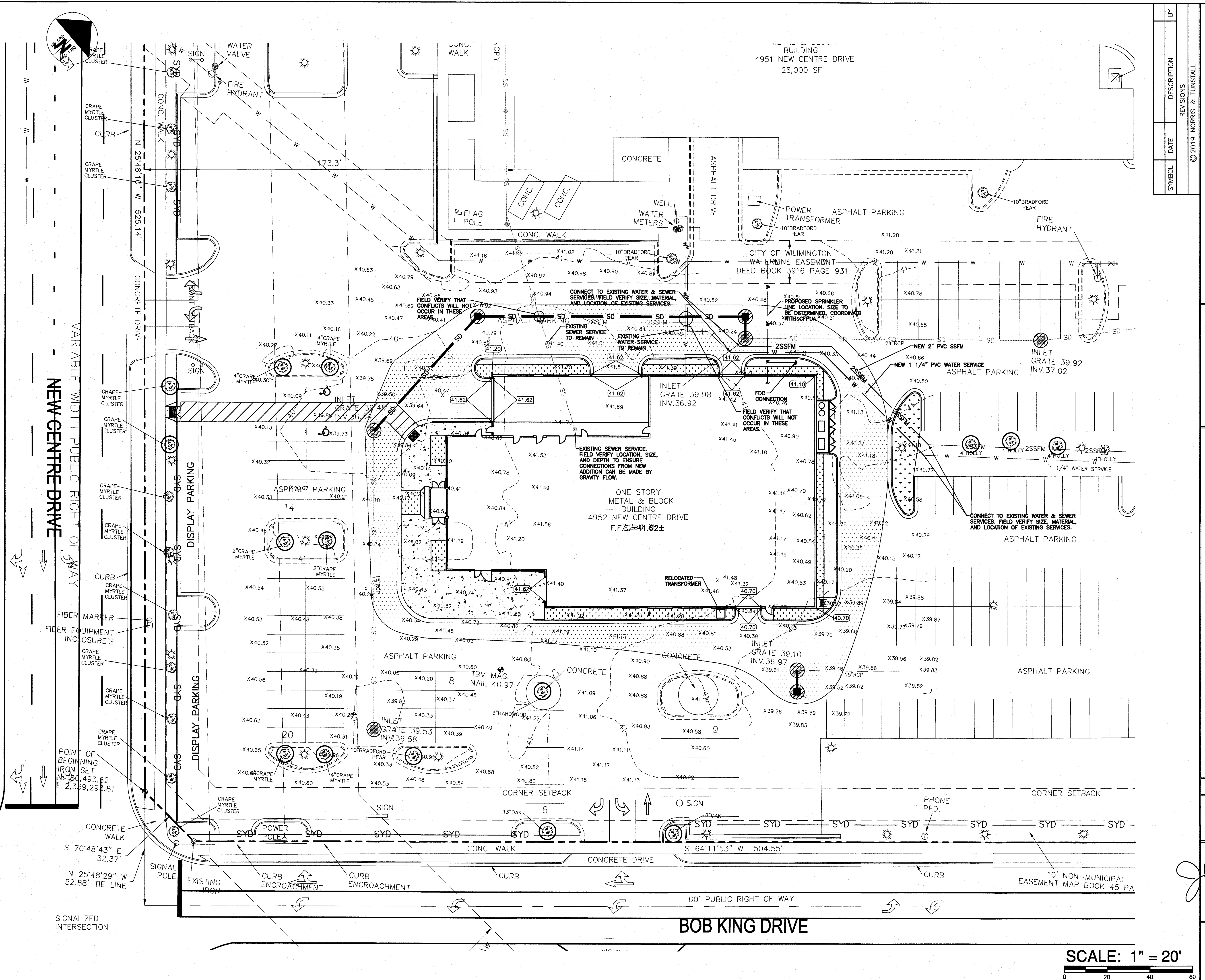
VICINITY MAP
N.T.S.

- NOTES:
1. A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. CONTACT 341-5888 FOR MORE DETAILS.
 2. A HYDRANT MUST BE WITHIN 150' OF THE FDC (MEASURED AS TRUCK DRIVES FOR PRACTICAL USE)
 3. FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.
 4. 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.
 5. ADDITIONAL FIRE PROTECTION AND/OR ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
 6. PRIVATE UNDERGROUND FIRE LINES REQUIRE A SEPARATE UNDERGROUND FIRE LINE PERMIT FROM THE WILMINGTON FIRE AND LIFE SAFETY DIVISION 910-345-0086.
 7. CONTRACTOR SHALL SUBMIT A RADIO SIGNAL STRENGTH STUDY THAT DEMONSTRATES THAT EXISTING EMERGENCY RESPONDER RADIO SIGNAL LEVELS MEET THE REQUIREMENTS OF SECTION 510 OF THE 2016 NC FIRE CODE.
 8. ALL ISOLATION VALVES WITHIN THE "HOT BOX" MUST BE ELECTRICALLY SUPERVISED.

Approved Construction Plan	
Name	Date
Planning <i>Michael Smith</i>	6/18/19
Traffic <i>W. Smith</i>	6/18/19
Fire <i>Chad Anderson</i>	6/18/19

CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN
Date: 6/19/19 Permit # 2002043 R1
Signed: *Todd Butler* for RAC



SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

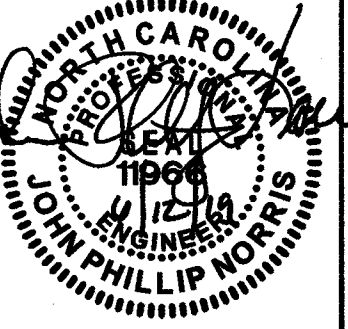
UTILITY PLAN
WILMINGTON ACURA
4952 NEW CENTRE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

OWNER:
FLOW 4951 NEW CENTRE, LLC
500 WEST FIFTH ST, SUITE 1800
WINSTON-SALEM, NC 27101
(336) 422-0061
dfow@flowauto.com

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PHONE (910) 345-9653
1429 ASH-LITTLE RIVER RD, NW
ASH, NC 28620
PHONE (910) 287-5900

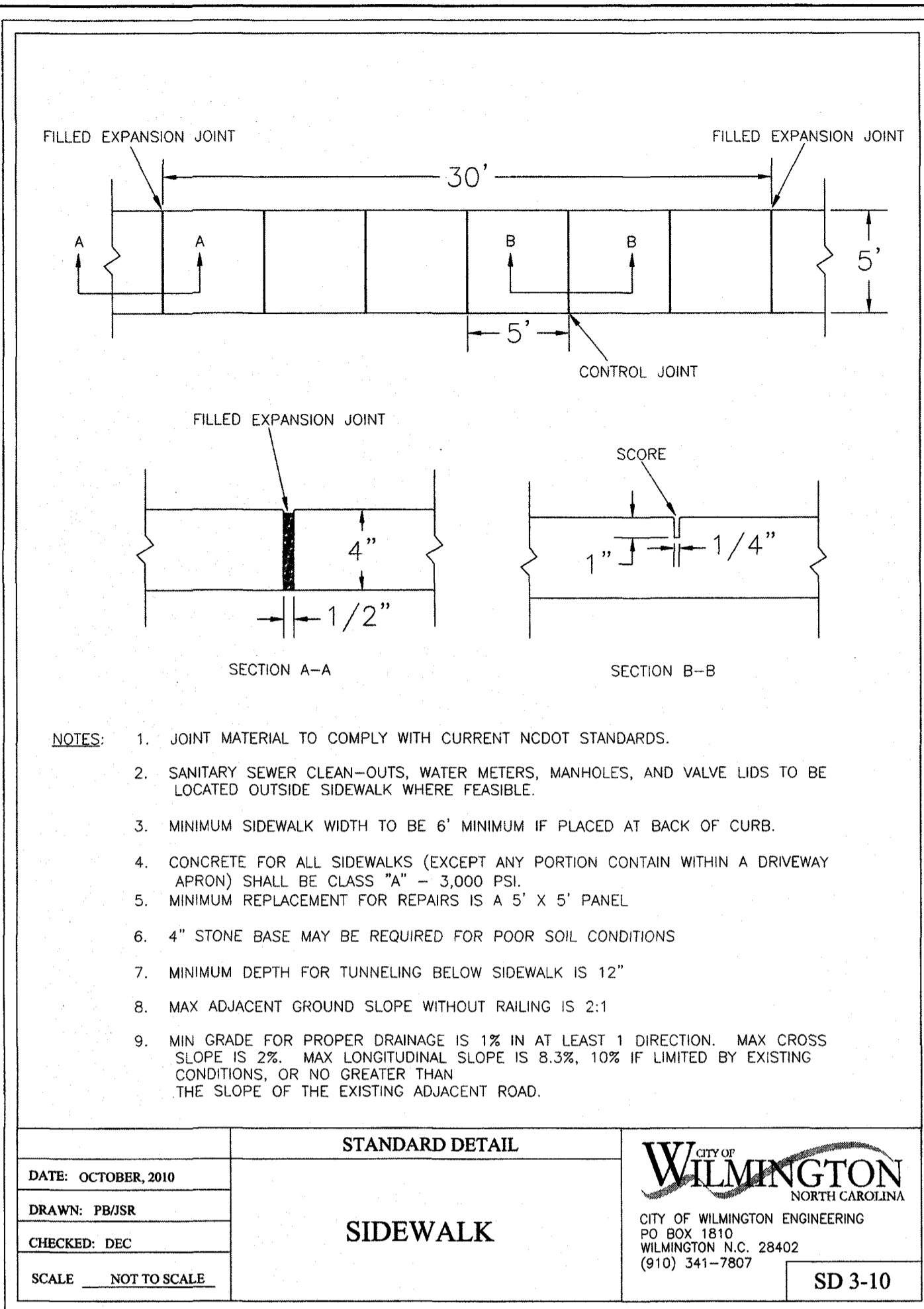
Licence #C-3641

DES.	JPN
CHK.	JPN
DRWN.	EDB
DATE	06/12/19

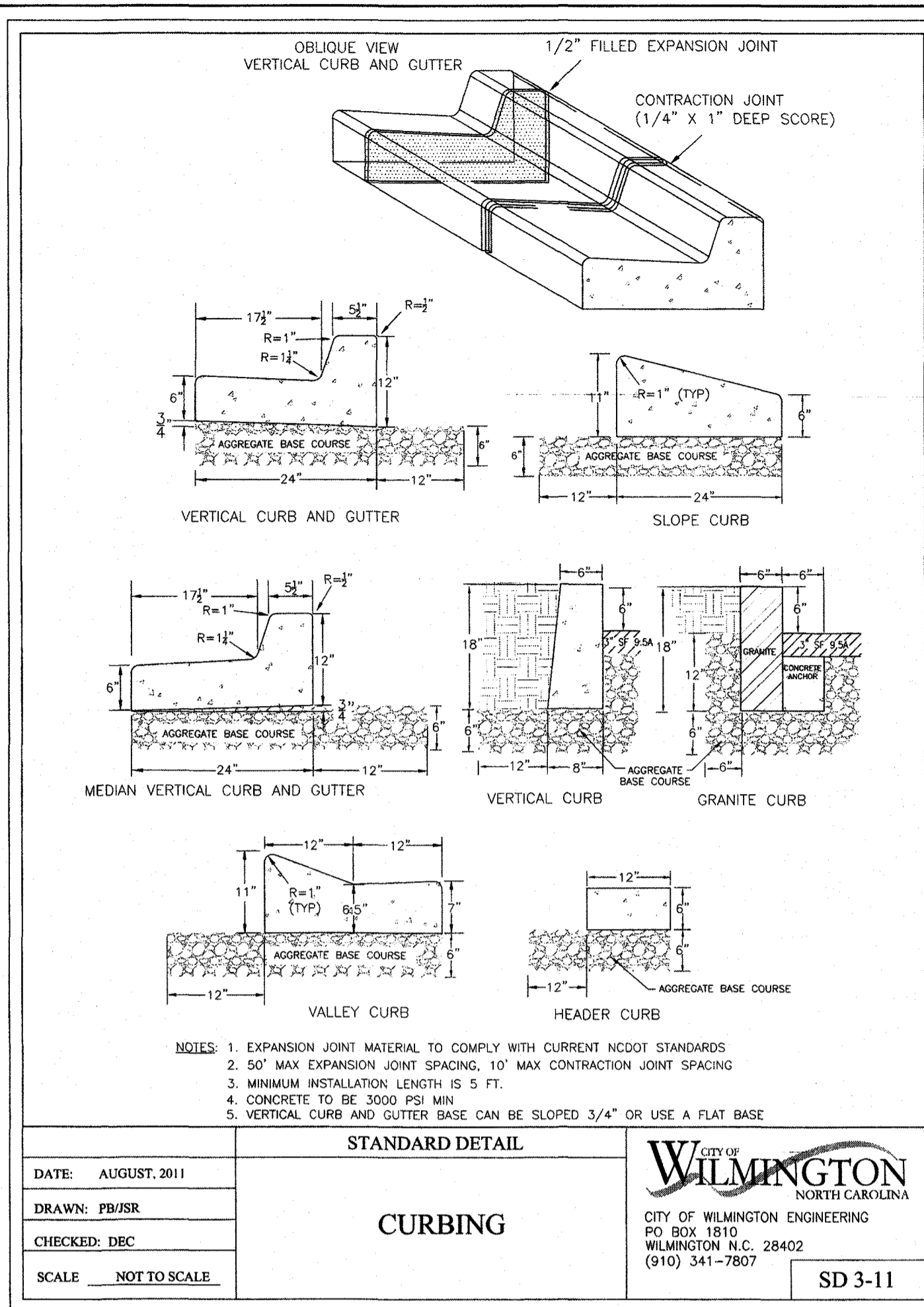


C4

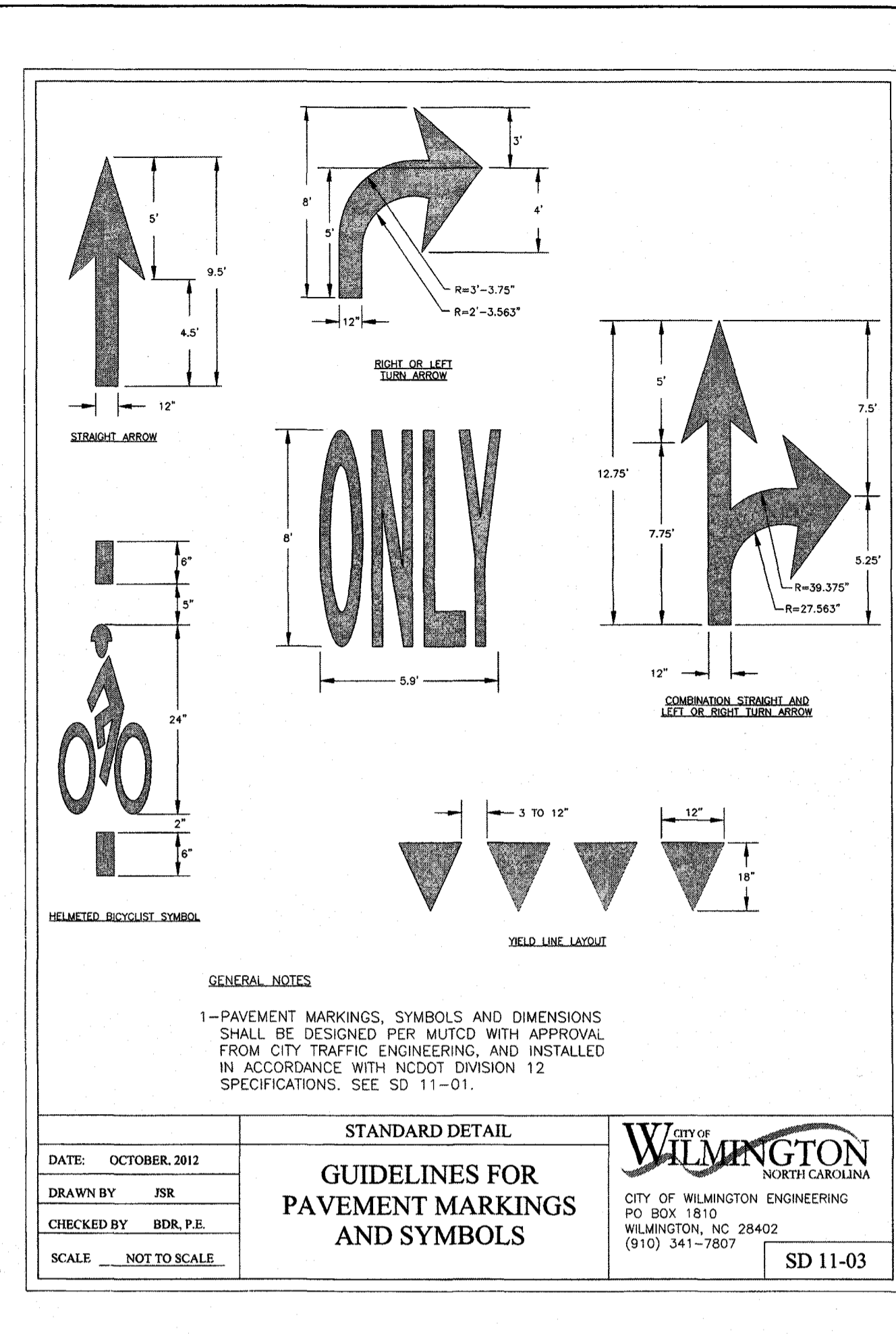
SCALE: 1" = 20'



DATE: OCTOBER, 2010	STANDARD DETAIL	<p>CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807</p>
DRAWN BY: JBR/JSR	SIDEWALK	
CHECKED BY: DEC		
SCALE: NOT TO SCALE		



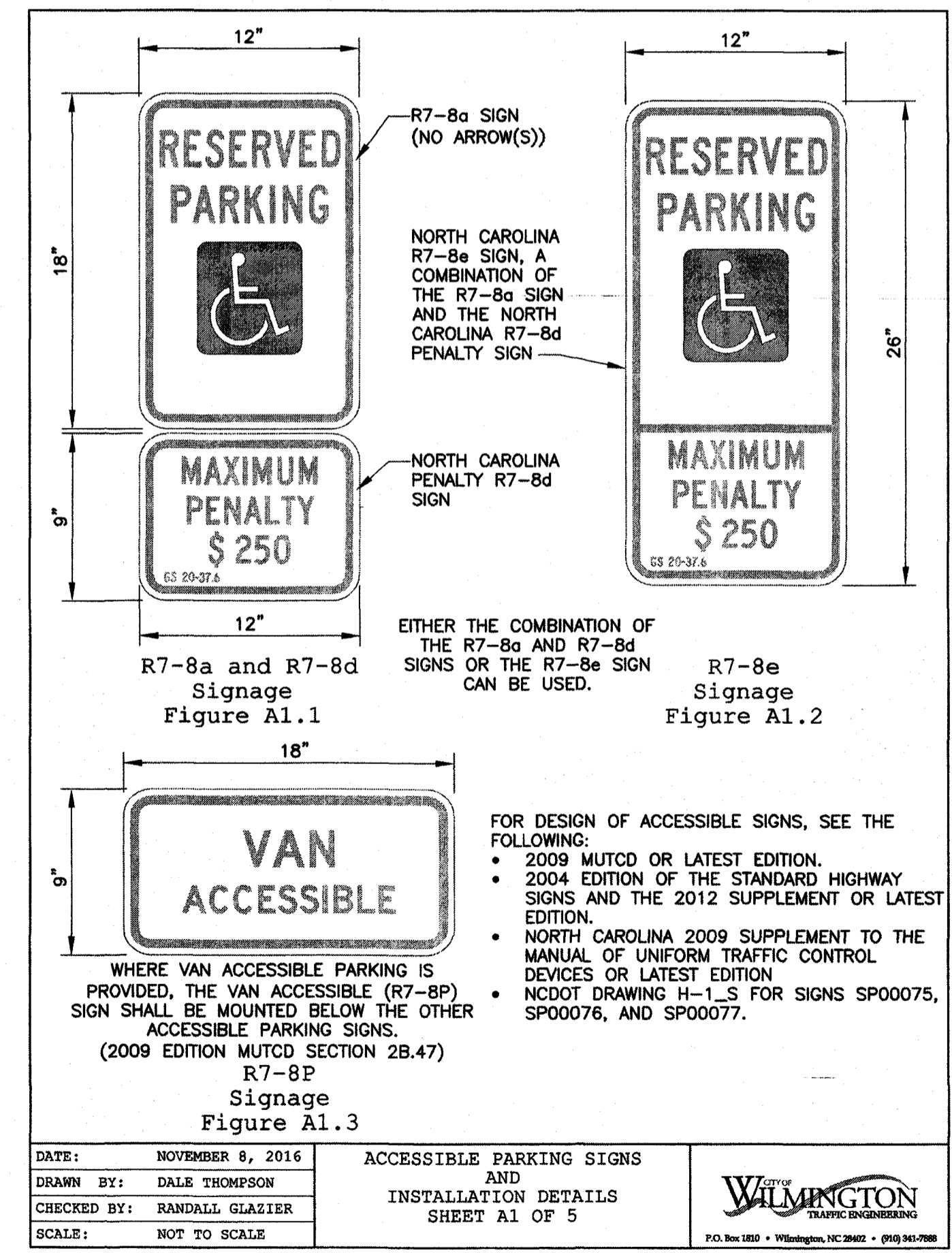
DATE: AUGUST, 2011	STANDARD DETAIL	<p>CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807</p>
DRAWN BY: JBR/JSR	CURBING	
CHECKED BY: DEC		
SCALE: NOT TO SCALE		



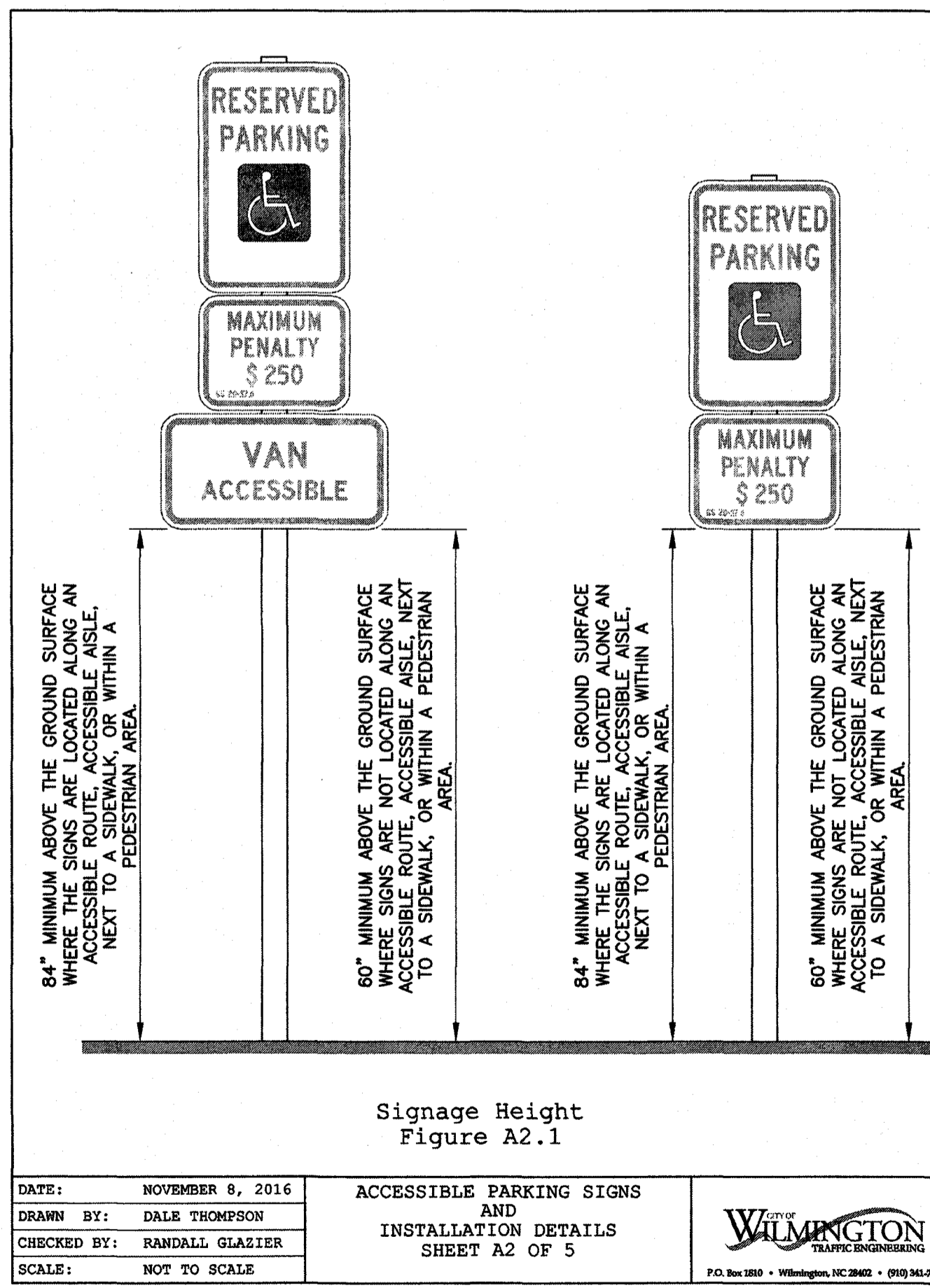
DATE: OCTOBER, 2012	STANDARD DETAIL	<p>CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807</p>
DRAWN BY: JSR	GUIDELINES FOR PAVEMENT MARKINGS AND SYMBOLS	
CHECKED BY: BDR, P.E.		
SCALE: NOT TO SCALE		

1. Variances on stall widths, angle and other dimensions will be allowed only upon approval of the Traffic Engineer.
2. Wheel stops shall be required three (3) feet from the end of parking stall when using eighteen (18) feet deep stalls.
3. Curbing, crossties, utility poles, etc., can be used as wheel stops. (Must be anchored down)
4. All medians shall be a minimum of six (6) feet wide.
5. Parking bays which terminate at a circulation way shall provide for a minimum turning radius of twenty-five (25) feet, as measured from the edge of the travel portion.
6. All parking stall markings and lane arrows shall be white.
7. All other pavement markings, signs or other traffic control devices shall conform to the latest edition and/or interpretation of the Manual on Uniform Traffic Control Devices (MUTCD).
8. No obstructions will be allowed adjacent to a parking stall which would prevent safe ingress and egress from a parked vehicle.
9. Parking in fire lanes and in non-residential driveways shall be prevented by standard signs and as needed by portable barricades.

DATE: 2001	STANDARD DETAIL	<p>CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807</p>
DRAWN BY: JSR/CMR	PARKING FACILITY DESIGN NOTES	
CHECKED BY: B.P., P.E.		
SCALE: NOT TO SCALE		



DATE: NOVEMBER 8, 2016	ACCESSIBLE PARKING SIGNS AND INSTALLATION DETAILS	<p>CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807</p>
DRAWN BY: DALE THOMPSON	SHEET A1 OF 5	
CHECKED BY: RANDALL GLAZIER		
SCALE: NOT TO SCALE		



DATE: NOVEMBER 8, 2016	ACCESSIBLE PARKING SIGNS AND INSTALLATION DETAILS	<p>CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807</p>
DRAWN BY: DALE THOMPSON	SHEET A2 OF 5	
CHECKED BY: RANDALL GLAZIER		
SCALE: NOT TO SCALE		

Approved Construction Plan	
Name	Date
Planning: Nicole D Smith	6-18-19
Traffic: [Signature]	6-18-19
Fire: [Signature]	6-18-19

CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN
Date: 6/19/19 Permit # 2002043R1
Signed: [Signature] for RAC

DETAILS
WILMINGTON ACURA
4952 NEW CENTRE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

OWNER:
FLOW 4951 NEW CENTRE, LLC
500 WEST FIFTH ST, SUITE 1800
WINSTON-SALEM, NC 27101
(336) 422-0061
dflow@flowauto.com

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.

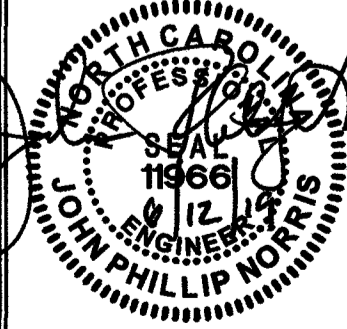
1000 EASTWOOD RD, SUITE #11
WILMINGTON, NC 28403
PHONE (910) 343-9653

Licence #C-3641

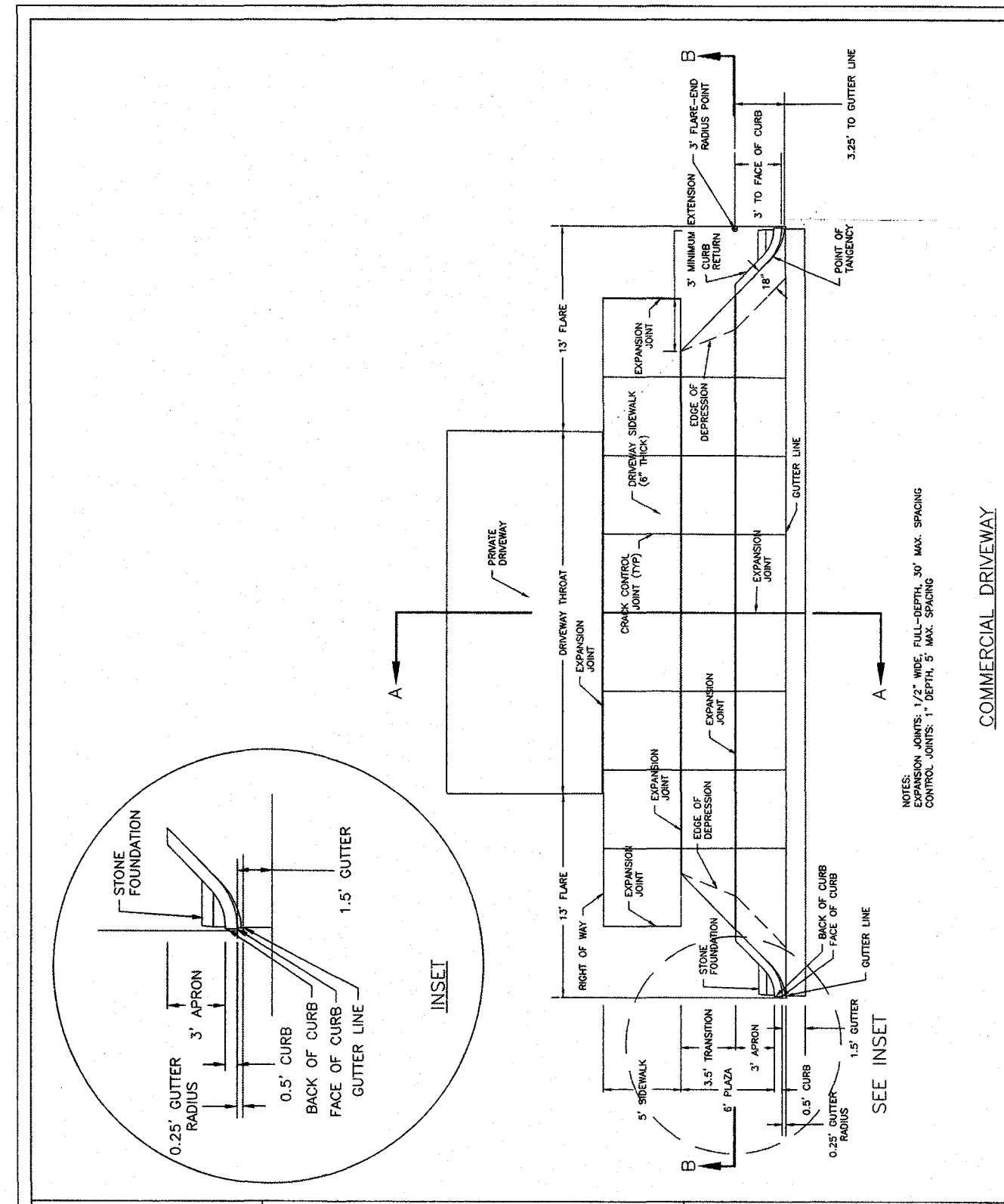
18131

DES: JPN
CHK: JPN
DRWN: EDB

DATE: 06/12/19



C6



DATE: FEB 14, 2017
 DRAWN BY: JSR
 CHECKED BY: D.E.C., P.E.
 SCALE: NOT TO SCALE

STANDARD DETAIL
COMMERCIAL DRIVEWAY PLAN (VERTICAL CURB)
 1 of 2

CITY OF WILMINGTON
 NORTH CAROLINA
 CITY OF WILMINGTON ENGINEERING
 PO BOX 1810
 WILMINGTON, N.C. 28402
 (910) 341-7807

SD 3-03.3

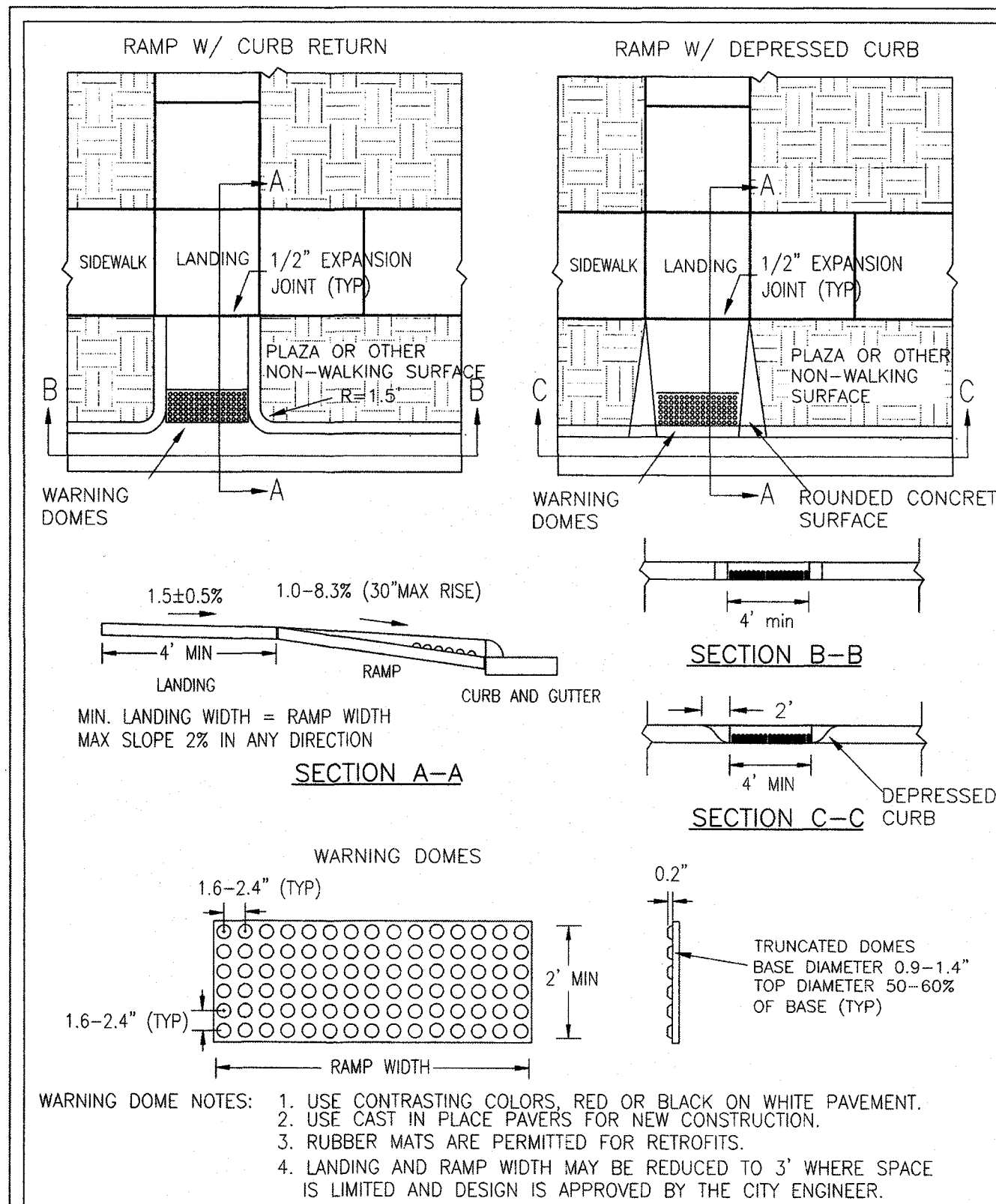
- No plantings over thirty (30) inches in height allowed in vision clearance.
- Protection from vehicular traffic provided around all landscaping with a minimum height of six (6) inches.
- Owner is responsible for maintenance to ensure plant material lives and prospers.
- Planting plans shall be approved by Landscape Designer prior to installation.
- Landscaping shall be required at the ends of all parking rows.
- A low buffer shall be required where parking is within fifty (50) feet of the Right-of-Way.
- Landscaped islands shall be a minimum width of twelve (12) feet (back of curb to back of curb) and a minimum of two hundred and sixteen (216) square feet.
- A minimum of fifteen (15) trees 2 inches or greater in diameter as measured 6 inches above ground per disturbed acre.
- For recommended Plant List see "Landscape" T-10.4.

DATE: APRIL 2008
 DRAWN BY: JSR
 CHECKED BY: B.P., P.E.
 SCALE: NOT TO SCALE

STANDARD DETAIL
LANDSCAPE NOTES

CITY OF WILMINGTON
 NORTH CAROLINA
 CITY OF WILMINGTON ENGINEERING
 PO BOX 1810
 WILMINGTON, NC 28402
 (910) 341-7807

SD 15-14

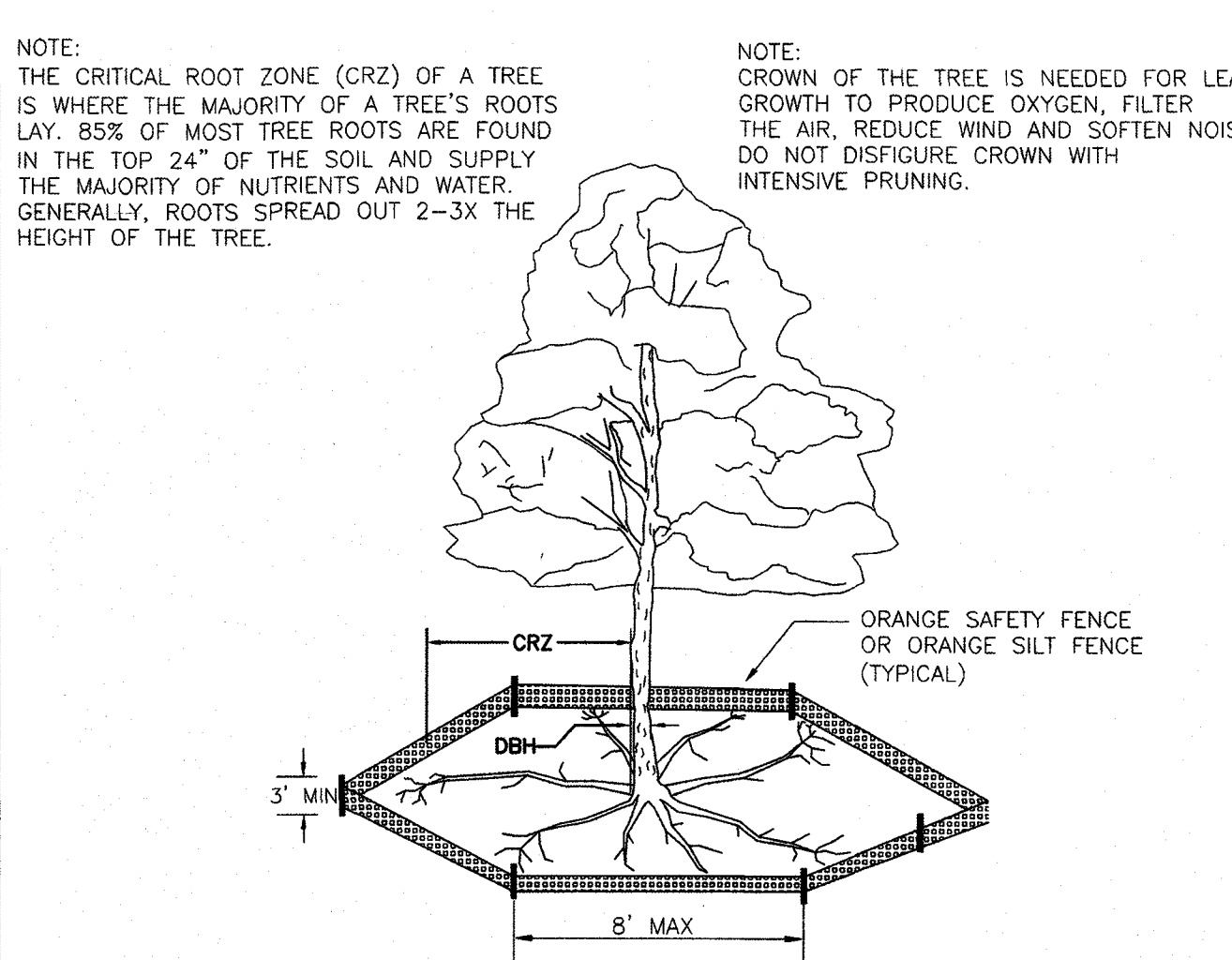


DATE: DECEMBER, 2010
 DRAWN: PB/JSR
 CHECKED: DEC
 SCALE: NOT TO SCALE

STANDARD DETAIL
PERPENDICULAR CURB RAMP ADJACENT TO PLAZA

CITY OF WILMINGTON
 NORTH CAROLINA
 CITY OF WILMINGTON ENGINEERING
 PO BOX 1810
 WILMINGTON, N.C. 28402
 (910) 341-7807

SD3-08



- NOTE: THE CRITICAL ROOT ZONE (CRZ) OF A TREE IS WHERE THE MAJORITY OF A TREE'S ROOTS LAY. 85% OF MOST TREE ROOTS ARE FOUND IN THE TOP 24" OF THE SOIL AND SUPPLY THE MAJORITY OF NUTRIENTS AND WATER. GENERALLY, ROOTS SPREAD OUT 2-3X THE HEIGHT OF THE TREE.
- NOTE: CROWN OF THE TREE IS NEEDED FOR LEAF GROWTH TO PRODUCE OXYGEN, FILTER THE AIR, REDUCE WIND AND SOFTEN NOISE. DO NOT DISFIGURE CROWN WITH INTENSIVE PRUNING.
- NOTES:
- PROTECT CRITICAL ROOT ZONE (CRZ) OF TREES PRIOR TO CONSTRUCTION. CLEARLY MARK THE TREES AND ERECT A PROTECTIVE BARRIER AT THE CRZ. BARRIER SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE.
 - CRZ RADIUS IS 1 FT PER INCH OF TREE DIAMETER AT BREAST HEIGHT (DBH).
 - IF CONSTRUCTION OCCURS WITHIN THE CRZ, AT LEAST 12" OF MULCH AND/OR LOGGING MATS SHALL BE PLACED WHERE MACHINERY MANEUVERS TO REDUCE SOIL COMPACTION IN THIS ZONE.
 - WHERE SIDEWALKS AND PATHWAYS PASS WITHIN CRZ, EXTRA CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ROOTS. ALTERNATE CONSTRUCTION METHODS, SUCH AS A REINFORCED SIDEWALK, SHALL BE IMPLEMENTED AS NECESSARY.
 - FOR ALL TREES, CUTTING OF LARGE STRUCTURAL ROOTS LOCATED NEAR THE BASE OF THE TRUNK IS PROHIBITED. DO NOT COMPACT SOIL BENEATH TREES. NO VEHICLE SHALL BE ALLOWED TO PARK UNDER TREES. NO MATERIALS OR EQUIPMENT SHALL BE STORED BENEATH TREES. DAMAGING THE BARK WITH LAWNMOWERS, CONSTRUCTION EQUIPMENT, OR ANYTHING ELSE IS PROHIBITED. CONTRACTOR SHALL REPAIR DAMAGE TO TREES.
 - FAILING TO INSTALL OR MAINTAIN PROTECTION MEASURES SHALL RESULT IN A STOP WORK ORDER AND FINE OF \$500/DAY. DISTURBANCE OTHER THAN THAT ALLOWED ON THE APPROVED PLAN WILL REQUIRE OWNER TO POST A LETTER OF CREDIT FOR 3 YRS FOR TREE MITIGATION.

DATE: JAN, 2015
 DRAWN BY: JSR
 CHECKED BY: RDG, P.E.
 SCALE: NOT TO SCALE

STANDARD DETAIL
TREE PROTECTION DURING CONSTRUCTION
 SHEET 1 of 2

CITY OF WILMINGTON
 NORTH CAROLINA
 CITY OF WILMINGTON ENGINEERING
 PO BOX 1810
 WILMINGTON, NC 28402
 (910) 341-7807

SD 15-09

Approved Construction Plan	
Name	Date
Planning <i>Shirley Smith</i>	6/18/19
Traffic <i>W. Smith</i>	6-18-19
Fire <i>Paul Chandler</i>	6/18/19

CITY OF WILMINGTON
 NORTH CAROLINA
 Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
 Date: 6/19/19 Permit # 2002043 R1
 Signed: *Scott D. Miller for RAC*

SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

OWNER:
 FLOW 4951 NEW CENTRE, LLC
 500 WEST FIFTH ST, SUITE 1800
 WINSTON-SALEM, NC 27101
 (336) 422-0061
 dflow@flowauto.com

DETAILS
WILMINGTON ACURA
4952 NEW CENTRE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

NORRIS & TUNSTALL
 CONSULTING ENGINEERS P.C.

1900 EASTWOOD RD, SUITE #11 1429 ASH-LITTLE RIVER RD, NW
 WILMINGTON, NC 28403 ASH, NC 28420
 PHONE (910) 345-9653 PHONE (910) 287-5900

License #C-3641

18131

DES: JPN
 CIB: JPN
 DRWL: EDB

DATE: 06/12/19

C7

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

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

SECTION E: GROUND STABILIZATION

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

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

GROUND STABILIZATION SPECIFICATION

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

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

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

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

EQUIPMENT AND VEHICLE MAINTENANCE

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

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

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

PAINT AND OTHER LIQUID WASTE

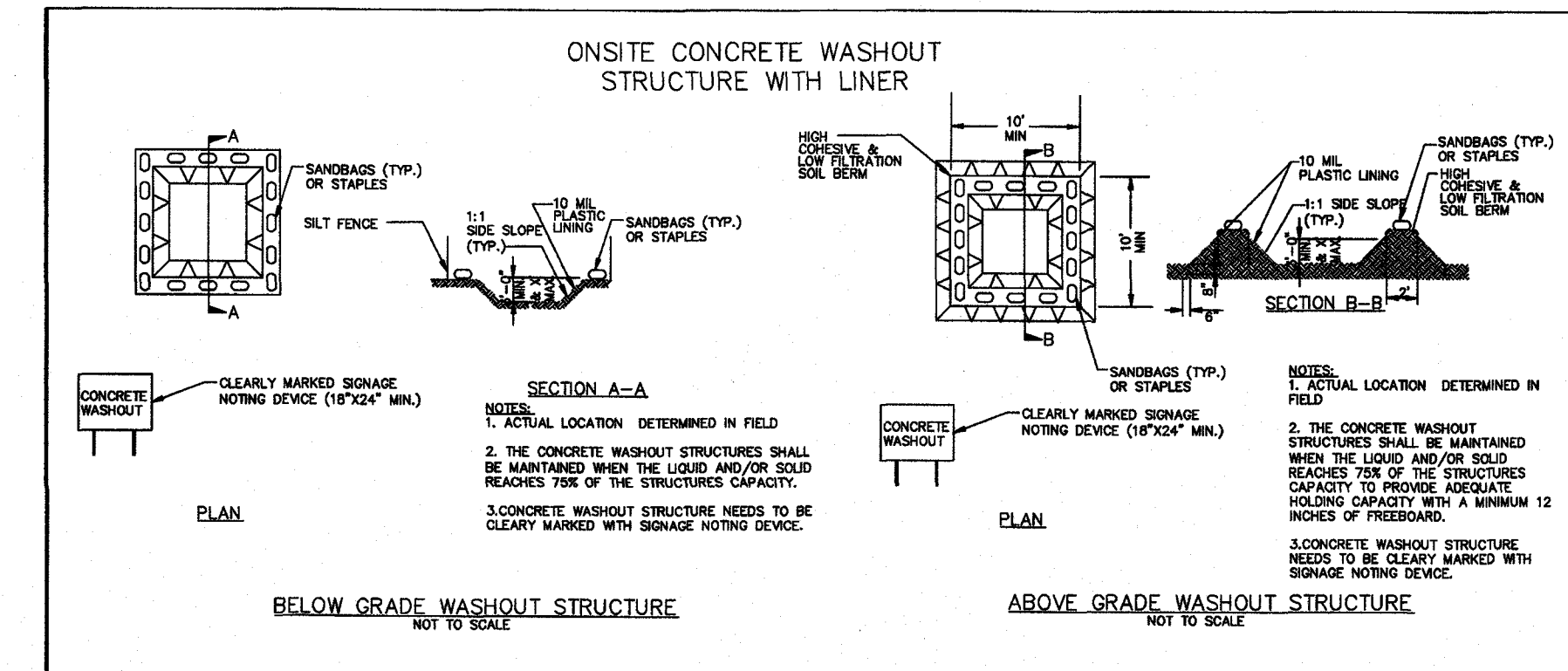
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled,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

PORTABLE TOILETS

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

EARTHEN STOCKPILE MANAGEMENT

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



CONCRETE WASHOUTS

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

HERBICIDES, PESTICIDES AND RODENTICIDES

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

HAZARDOUS AND TOXIC WASTE

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

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

Approved Construction Plan	
Name	Date
Planning: Nicole Smith	6/18/19
Traffic: W. Bridges	6/18/19
Fire: Chad Chou	6/18/19

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

 Date: 6/19/19 Permit # 200204381

 Signed: *[Signature]* for RAC

SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

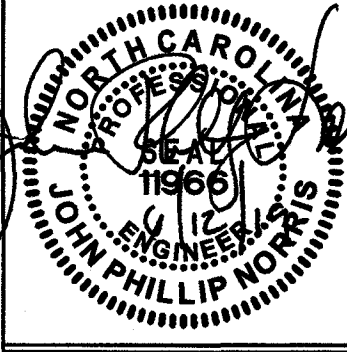
DETAILS
WILMINGTON ACURA
4952 NEW CENTRE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

OWNER:
 FLOW 4951 NEW CENTRE, LLC
 500 WEST FIFTH ST, SUITE 1800
 WINSTON-SALEM, NC 27101
 (336) 422-0061
 dflow@flowauto.com

NORRIS & TUNSTALL
 CONSULTING ENGINEERS P.C.
 1000 EASTWOOD RD, SUITE #11
 WILMINGTON, NC 28405
 PHONE (910) 343-9653

Licence #C-3641

18131
DES. JPN
CHK. JPN
DRWN. EDB
DATE 06/12/19



C8

**PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

SECTION A: SELF-INSPECTION

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

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

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

**PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be documented in the manner described:

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

2. Additional Documentation

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

- (a) This general permit as well as the certificate of coverage, after it is received.
- (b) Records of inspections made during the previous 30 days. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.
- (c) All data used to complete the Notice of Intent and older inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

**PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

SECTION C: REPORTING

1. Occurrences that must be reported

Permittees shall report the following occurrences:

- (a) Visible sediment deposition in a stream or wetland.
- (b) Oil spills if:
 - They are 25 gallons or more,
 - They are less than 25 gallons but cannot be cleaned up within 24 hours,
 - They cause sheen on surface waters (regardless of volume), or
 - They are within 100 feet of surface waters (regardless of volume).

- (a) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

- (b) Anticipated bypasses and unanticipated bypasses.

- (c) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

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

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

Approved Construction Plan	
Name	Date
Planning: Nicole D Smith	6-18-19
Traffic: W. S. ...	6-18-19
Fire: Chad ...	6-18-19

CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: 6/19/19 Permit #: 200204581
Signed: *David Butler* for RAC

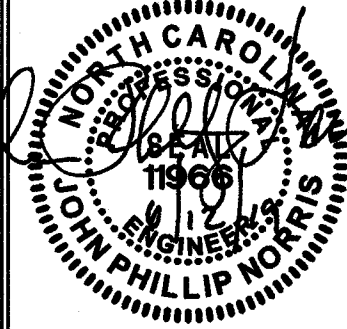
SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

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DETAILS
WILMINGTON ACURA
4952 NEW CENTRE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

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dflow@flowauto.com

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KATY, TX 75450
PHONE (910) 267-9000

License #C-3641
18131
DES. JPN
CHK. JPN
DRWN. EDB
DATE 06/12/19



C9

LANDSCAPE NOTES:
 1. PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
 2. THE AREAS WITHIN THE TRIANGULAR SIGHT DISTANCE SHALL BE MAINTAINED FREE OF ALL OBSTRUCTIONS BETWEEN 30' AND 10'.
 3. A RAINFREEZE SENSOR SHALL BE USED IF THERE IS AN IRRIGATION SENSOR.
 4. USING THE CREATIVE STANDARD OF THE CODE, 50% OF THE STREETYARD SHALL BE PLANTED AS CALLED OUT.
 5. ALL PLANT BEDS ARE TO RECEIVE 3" OF PINESTRAW OR MULCH.
 6. LANDSCAPING SHALL BE COMPLETE BEFORE ISSUANCE OF A CO.

FOUNDATION PLANTINGS:
NORTH SIDE BUILDING:
 29' HT. X 113 LF X .12 = 393 SF REQ'D.
 409 SF PROV'D.

SOUTH SIDE BUILDING:
 29' HT. X 69 LF X .12 = 240 SF REQ'D.
 318 SF PROV'D.

EAST SIDE BUILDING:
 29' HT. X 156 LF X .12 = 543 SF REQ'D.
 633 SF PROV'D.

WEST SIDE BUILDING:
 29' HT. X 119 LF X .12 = 414 SF REQ'D.
 608 SF PROV'D.

SITE DATA

PARCEL #	80496-00-04-000
ZONING	RS
TOTAL AREA	59,544.12 SQ. FT.
EXISTING PAVEMENT	42,202 SF
EXISTING BUILDING	1,210 SF (PLA. ACROB.)
EXISTING BUILDINGS TO REMAIN	87,130 SF (PLA. ACROB.)
PROPOSED BUILDING	7,421 SF (PLA. ACROB.)
BUILDING FOOTPRINT	1,042 SF (PLA. ACROB.)
NUMBER OF BUILDG.	4
NUMBER OF BUILDG.	4
BUILDING HEIGHT	29 FEET
BUILDING CONSTRUCTION TYPE	RS
NUMBER OF STORIES	1
IF 2-3 STORIES	7,421 SF (PLA. ACROB.)
IF 4-6 STORIES	1,042 SF (PLA. ACROB.)
NETWORK	
INDEX	
SCALE	
CORNER SIDE	
EX. PARKING	59 SPACES INCLUDED 1 HARDTOP
EX. SPACES	25 SPACES
EX. SPACES TO BE REMOVED	25 SPACES
EX. SPACES TO REMAIN	59 SPACES INCLUDED 1 HARDTOP
PARKING REQUIRED	
REQUIRED (RETAIL/RENTAL) (SPACE PER 1,000 SF)	
REQUIRED (AUTOMOTIVE DEALERSHIP) (SPACE PER 1,000 SF)	
PARKING REQUIRED TOTAL (100% MIN.)	
PROVIDED	
DISPLAY PARKING	(1) SPACES
TOTAL SPACES	59 SPACES INCLUDED 1 HARDTOP
BICYCLE PARKING REQUIRED	
REQUIRED (5 BICYCLE SPACES PER 100 CAR SPACES)	
(0 CAR SPACES REQUIRED) = 0 BICYCLE SPACES	
TOTAL PERMITTED PERSERVIOUS	355,429 SF
TOTAL EXISTING PERSERVIOUS	35,210 SF
EXISTING PERSERVIOUS TO BE REMOVED	35,210 SF
PERSERVIOUS TO BE INSTALLED	35,210 SF
NET INCREASE	147 SF
TOTAL PERSERVIOUS AFTER THE PROJECT	26,280 SF
1 PERSERVVIOUS	6446'
LANDSCAPING REQUIRED INTERIOR	
REQUIRED (1.5	
SPACE PER 1,000 SF)	
20.54 X 24 = 4,929.6 SF	
LANDSCAPING PROVIDED INTERIOR	6,538 SF
STREET YARD	
PRIMARY REQUIRED	8,029.00 SQ. FT. (2.04 X 3.94 SF)
SECONDARY PROVIDED	1,402 SF
1,402 SF	
1,402 SF (1,402 SF X 1.0)	
REG. 10' PERSERVVIOUS, 14.75' PERSERVVIOUS, 14' PERSERVVIOUS, 14' PERSERVVIOUS	
1,402 SF	

LEGEND

COMMON NAME	QTY	SIZE
SHRUB, EVERGREEN BROADLEAF		
MAHONIA, SOFT CARESS	61	3 GAL.
NANDINA, FLIRT	36	3 GAL.
YEWE, PRINGLES	8	3 GAL.
YEWE, UPRIGHT JAPANESE	2	7 GAL.
LIGUSTRUM JAPONICUM	8	7 GAL.
UNDERSTORY TREE, DECIDUOUS		
CRAPE MYRTLE TUSCARORA	2	8' HT.
GROUND COVER		
LIRIOPE EMERALD GODDESS	67	1 GAL.

TREE REMOVAL SPECIES	SIZE	REGULATED/SIGNIFICANT	REQ'D MITIGATION/EXEMPTION
- BRADFORD PEAR	11'	REG.	EXEMPT PER SECTION 18-46(B)
- BRADFORD PEAR	15'	REG.	EXEMPT PER SECTION 18-46(B)
- HARDWOOD	4"	NOT REG.	EXEMPT DUE TO SIZE PER SECTION 18-45(A)(B)
- HOLLY	4"	REG.	EXEMPT PER SECTION 18-46(B)
- HARDWOOD	3"	NOT REG.	EXEMPT DUE TO SIZE PER SECTION 18-45(A)(B)



Revision #: 4
 Date: 6/14/2019

Scale:
 1" = 40'

Landscape Plan:
 Flow Acura

CITY OF WILMINGTON
 NORTH CAROLINA
 Public Services • Engineering Division
 APPROVED STORAGE MANAGEMENT PLAN
 Date: 6/19/19 Permit # 2002043R1
 Signed: Trent Bolton for RAC

Approved Construction Plan
 Name: Nicole D Smith Date: 6.18.19
 Traffic: W Edwards 6-18-19
 Fire: Chad Chandler 6/18/19

FREEMAN
LANDSCAPE, INC.
 Landscape Installation Professionals
 JIM@FREEMANLANDSCAPE.COM

Landscape Design by: Jim Freeman - NCLC# 71
 Freeman Landscape, Inc.