

DEVELOPMENT INFORMATION:

OWNER/DEVELOPER: SHIPYARD VILLAGE WILMINGTON, LLC PO BOX 29169 GREENSBORO, NC 27429-9169 2100-D W. CORNWALLIS DR. GREENSBORO, NC 27408

OWNER'S DESIGNATED REPRESENTATIVE: VERNON POWELL, PRESIDENT SHIPYARD VILLAGE WILMINGTON, LLC. vernonbpowell@gmail.com (336) 282-7200

PROJECT ENGINEER / REPRESENTATIVE: TARA S. MURPHY, RLA, ASLA, LEED AP, PMP McKIM & CREED, INC. 243 NORTH FRONT STREET WILMINGTON, NORTH CAROLINA 28401 tschwenzfeier@mckimcreed.com (910) 343-1048

PROJECT ADDRESS: 2821 CAROLINA BEACH ROAD WILMINGTON, NC 28412

TAX PARCEL IDENTIFICATION NUMBER: R06506-008-020-000

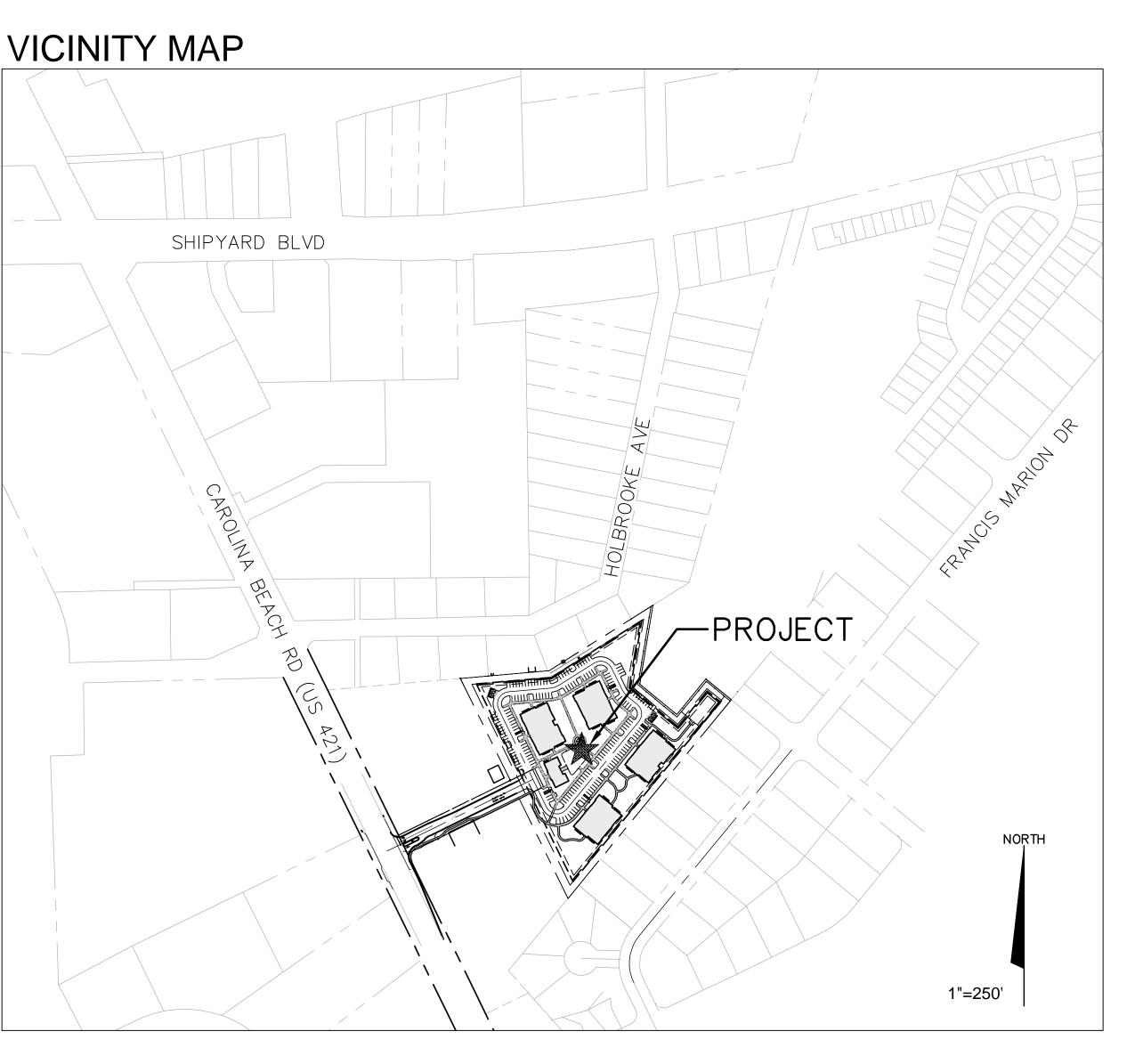
PROPERTY ZONING: MF-M MULTI-FAMILY RESIDENTIAL DISTRICT, MEDIUM DENSITY

CITY OF WILMINGTON NEW HANOVER COUNTY, NORTH CAROLINA

SHIPYARD VILLAGE APARTMENTS

SRB SUBMITTAL

MARCH 4, 2016 NOT FOR CONSTRUCTION





Wilmington, North Carolina 28401 Phone: (910)343-1048 , Fax: (910)251-8282 NC LICENSE NO. F-1222 www.mckimcreed.com

SHEET INDEX:

Sheet List Table			
Sheet Number	Sheet Title	Sheet Description	
1	G001	COVER	
3	CX101	SITE INVENTORY PLAN	
6	CS101	OVERALL SITE PLAN	
7	CS102	SITE PLAN ENLARGEMENT	
9	CU101	UTILITY PLAN	

STORMWATER MANAGEMENT PL	AN
APPROVED	
CITY OF WILMINGTON	
ENGINEERING DEPARTMENT	
DATE PERMIT #	_
SIGNED	_

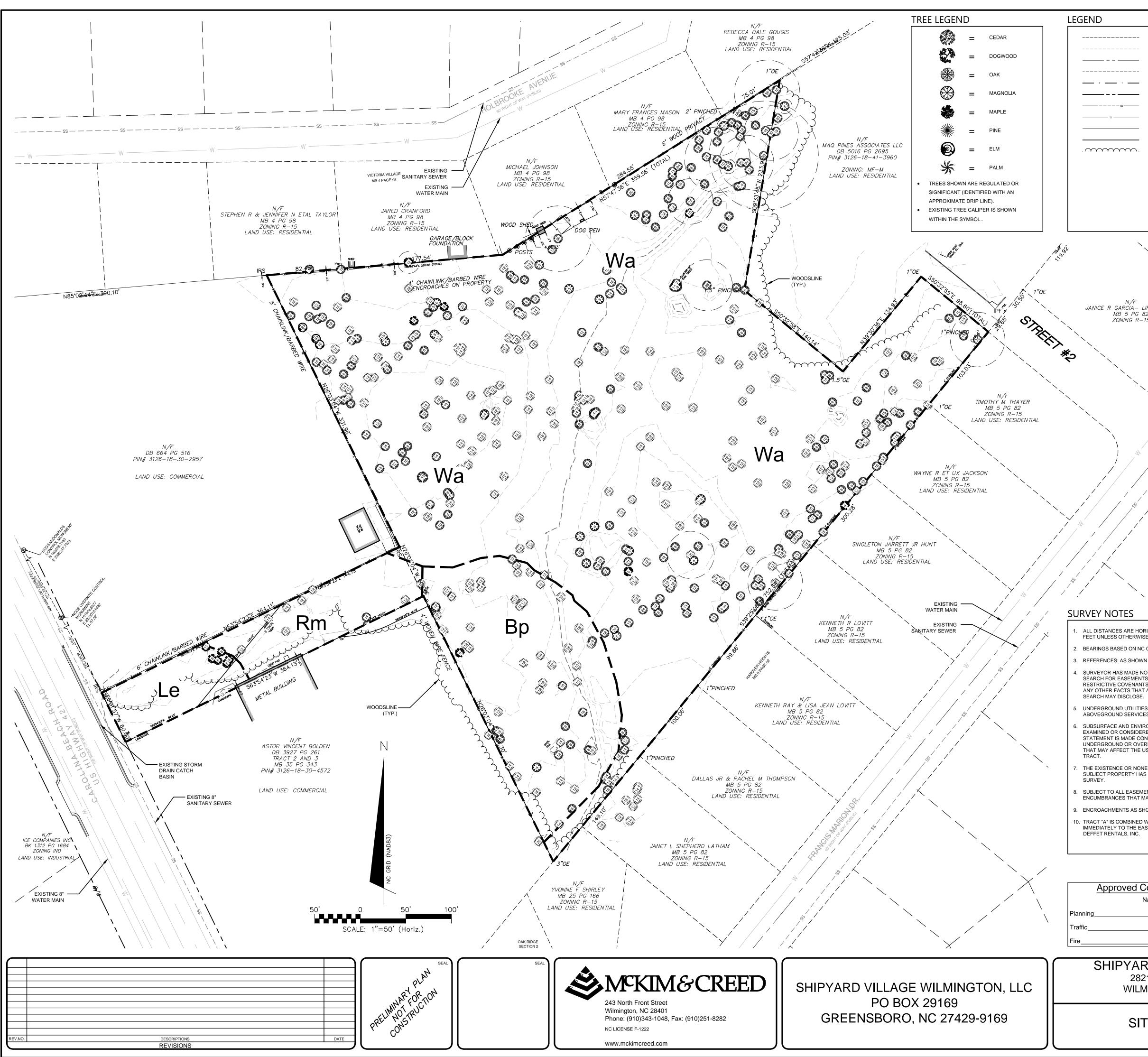
PRELIMINARY PLANS

NOT FOR CONSTRUCTION

Approved Construction Plan

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

APARTMENTS SHIPYARD



LEGEND

_____ -----____ · ____ ____ _____ _ _ _ _ _ _ ss _____ MAJOR CONTOUR

MINOR CONTOUR

RES. PROPERTY LINE

PROJECT PROPERTY LINE

EXISTING SANITARY SEWER

DRIVEWAY EASEMENT

EXISTING WATER LINE

EXISTING STRUCTURE

EXISTING TREE LINE

EXISTING BACK OF CURB

EXISTING R/W

N/F JANICE R GARCIA- LIFE ESTATE MB 5 PG 82 ZONING R-15

SURVEY NOTES

ALL DISTANCES ARE HORIZONTAL GROUND IN U.S. SURVEY FEET UNLESS OTHERWISE SHOWN.

BEARINGS BASED ON NC GRID NAD 83(2001).

REFERENCES: AS SHOWN ON PLAT

SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCLMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP, TITLE EVIDENCE, OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.

UNDERGROUND UTILITIES ARE SHOWN ONLY WHERE ABOVEGROUND SERVICES WERE VISIBLE.

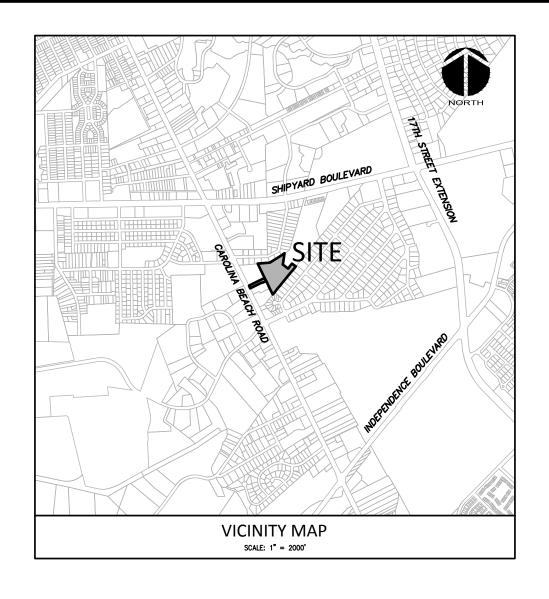
SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS A PART OF THIS SURVEY. NO STATEMENT IS MADE CONCERNING THE EXISTENCE OF UNDERGROUND OR OVERHEAD CONTAINERS OR FACILITIES THAT MAY AFFECT THE USE OR DEVELOPMENT OF THIS TRACT.

THE EXISTENCE OR NONEXISTENCE OF WETLANDS ON SUBJECT PROPERTY HAS NOT BEEN DETERMINED BY THIS SURVEY.

SUBJECT TO ALL EASEMENTS, RIGHT OF WAYS, AND OR ENCUMBRANCES THAT MAY EFFECT THIS PROPERTY. 9. ENCROACHMENTS AS SHOWN ON PLAT.

0. TRACT "A" IS COMBINED WITH LARGE PROPERTY IMMEDIATELY TO THE EAST AND SHOWN AS OWNED BY DEFFET RENTALS, INC.

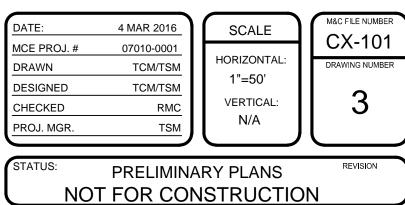
		FACILITIES
		STORMW
Approved Construction Plan Name Date	For each open utility cut of City streets, a \$325 perm shall be required from the City prior to occupancy and/or project acceptance	e CIT ENGIN
SHIPYARD VILLAGE APA		DATE: 4 MAR 20
2821 CAROLINA BEACH F		MCE PROJ. # 07010-00 DRAWN TCM/T
WILMINGTON, NORTH CAR		DESIGNED TCM/T
TOWNSHIP OF WILMINGTON		CHECKED R
		PROJ. MGR. T



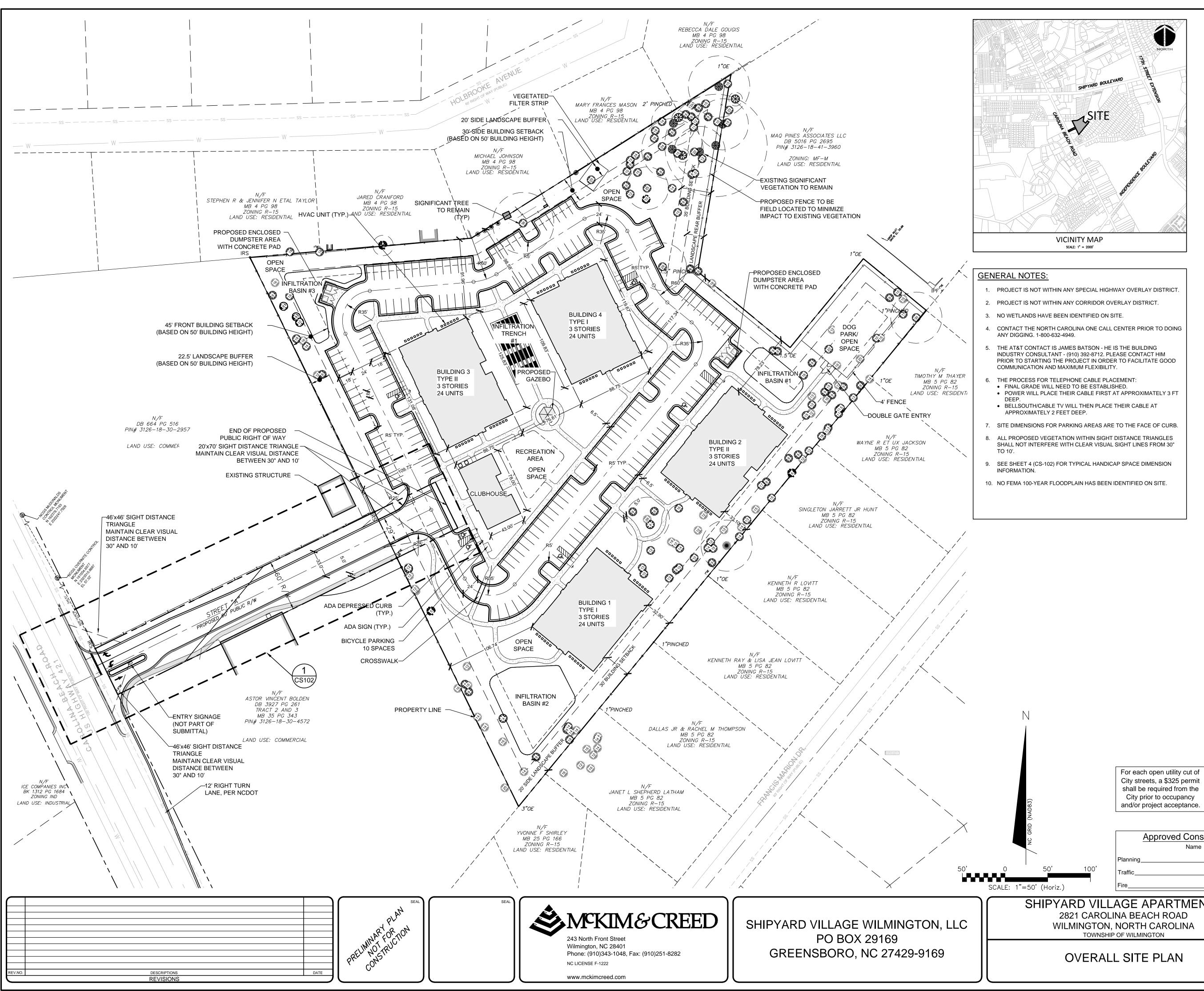
SITE DATA TABLE	SHIPYARD VILLAGE APARTMENTS			
GENERAL INFORMA	TION			
APPLICANT NAME	SHIPYARD VILLAGE W	/ILMINGTON, LLC		
SITE ADDRESS	2821 CAROLINA BEACH ROAD			
PROPERTY OWNER/DEVELOPER	SHIPYARD VILLAGE WILMINGTON, LLC			
MAP SCALE	1"=50'			
PROPERTY BOUND/	ARY			
TAX PARCEL IDENTIFICATION NUMBER	R06506-008-	020-000		
	R06506-008-	032-000		
	R06506-008-	029-000		
ZONING DISTRICT	MF-M			
TOTAL ACREAGE	SEE CS-101			
TOPOGRAPHY AND DR/	AINAGE			
DATE OF TOPOGRAPHY DATA	4/22/2014			
100-YR FLOODPLAIN LINE	NONE INDE	NTIFIED		
LOCATION OF NATURAL WATER FEATURES	LOCATION	CLASSIFICATION		
DITCHES, STREAMS, CREEKS	N/A	N/A		
FLOOD PRONE AREAS	NONE INDE	NTIFIED		
AREAS OF NATURALLY CONCENTRATED SURFACE DRAINAGE	N/A			
SOIL (USDA SOIL SUR	SOIL (USDA SOIL SURVEY)			
SOIL TYPE(S) AND BOUNDARIES	SEE CX-	-101		
NORTH CAROLINA COASTAL AREA MANAGI	EMENT ACT INFORMATION			
CAMA AREA OF ENVIRONMENTAL CONCERN	NONE INDENTIFIED			
SETBACKS	N/A			
CAMA LAND USE CLASSIFICATION(S)	URBAN			
CONSERVATION RESOURCE F	EGULATIONS			
PRESENCE OF CONSERVATION RESOURCE	NONE			
SETBACKS	N/A			
VEGETATED BUFFER	R N/A			
HISTORIC AND ARCHEOLOG	ICAL SITES			
LOCAL, STATE,OR FEDERALLY RECOGNIZED HISTORIC STRUCTURE(S) OR ARCHEOLOGICAL RESOURCES				
LOCATION	N/A			
CEMETERIES	}			
CEMETERIES, BURIAL SITES, OR BURIAL GROUNDS	NONE IDEN	TIFIED		
FORESTED AREA	S			
BOUNDARIES OF FORESTED AREAS	SEE CX-	-101		
FOREST AREA	SEE CX-101			
HABITAT	NONE IDENTIFIED			
DOMINANT SPECIES	OAK, PI	NE		
WETLANDS				
404/SECTION 10 WETLAND LOCATION	NONE IDENTIFIED			
METHOD OF DETERMINATION	N/A			
IMPACTED WETLANDS	N/A			
ENDANGERED SPECIES OF	RHABITAT			
ENDANGERED SPECIES OR HABITAT IN PROJECT AREA	NONE IDEN	TIFIED		
AUTOMOBILE, BICYCLE, PEDESTRIAN, C	OR TRANSIT FACILITIES			
EXISTING OR PROPOSED THOROUGHFARES, BIKE ROUTES, PEDESTRIAN SIDEWALKS OR TRAILS, AND TRANSIT FACILITIES	PROPERTY IS ALONG	WAVE ROUTE 106		

VATER MANAGEMENT PLAN APPROVED ITY OF WILMINGTON

NEERING DEPARTMENT PERMIT #

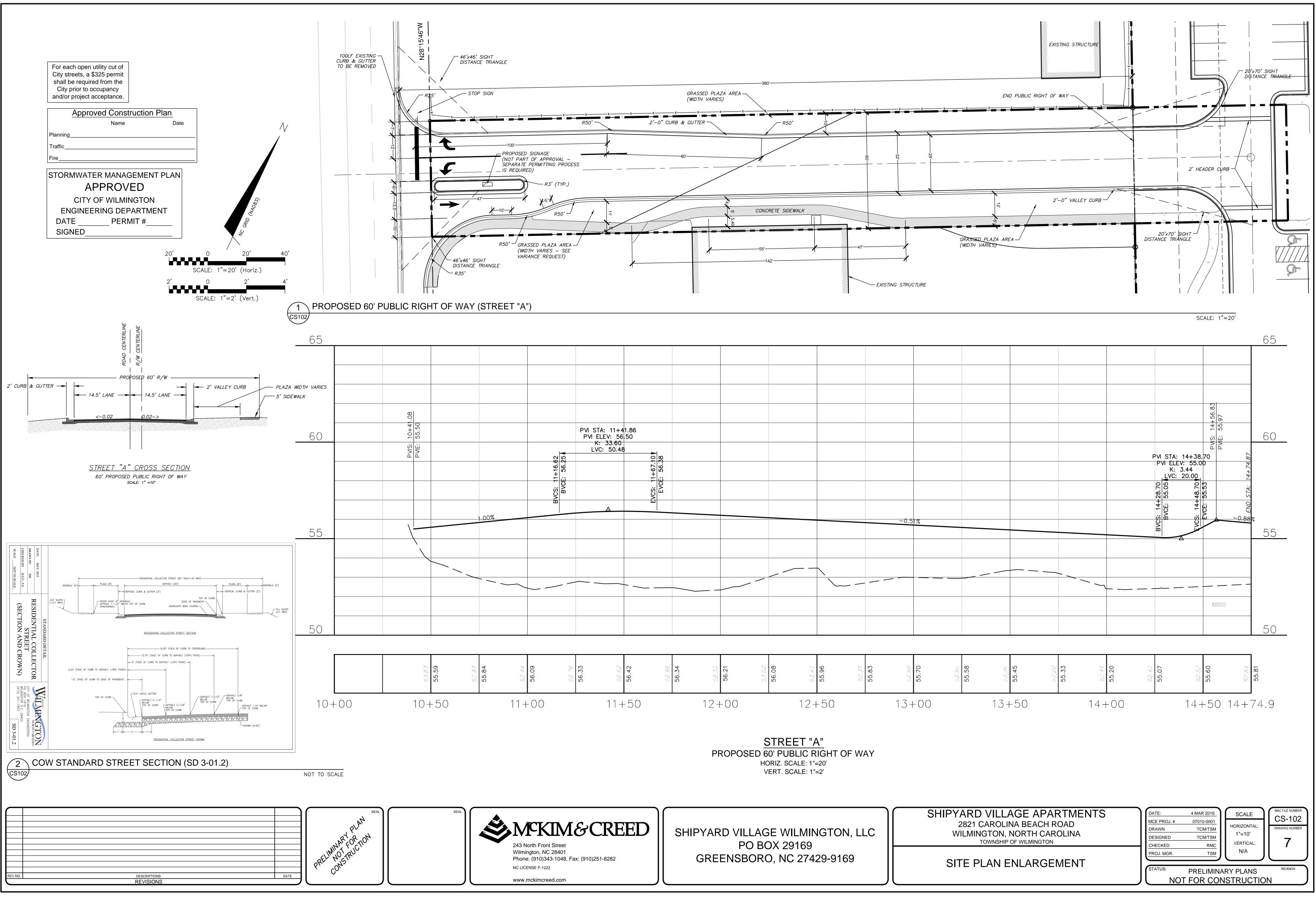


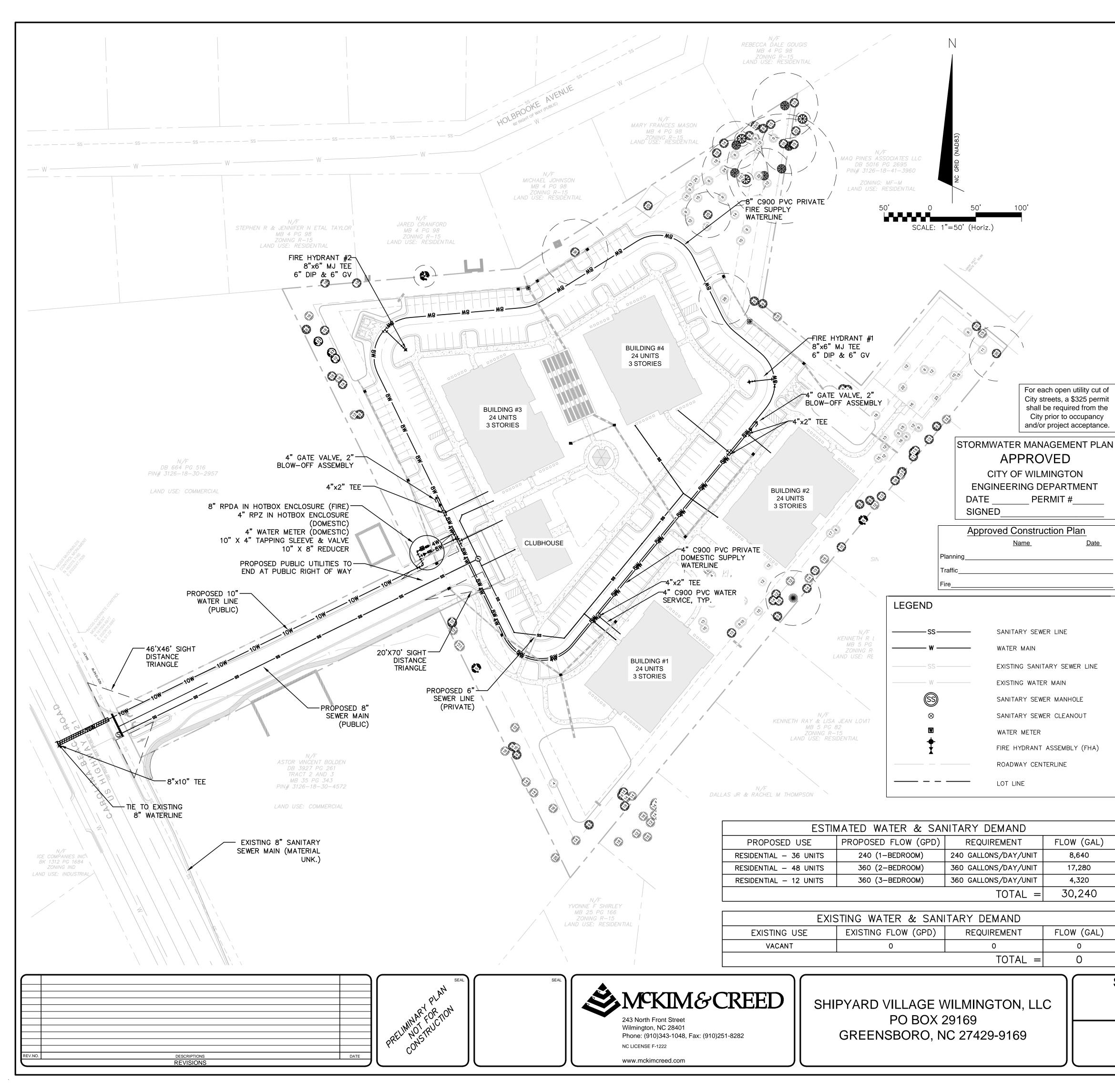
SITE INVENTORY PLAN



SITE DATA TABLE	SHIPYARI	D VILLAGE	
PARCEL ADDRESS	2821 CAROLINA BEACH ROAD		
BUILDING SETBACKS	REQUIRED	PROPOSED	
FRONT	35'	35'	
REAR	25'	25'	
SIDE (INTERIOR)	20'	20'	
SIDE (CORNER)	30'	30'	
	R06506-00	.	
TAX PARCEL IDENTIFICATION NUMBER(S):	R06506-008-029-000		
	R06506-00	08-032-000	
PARCEL DEED BOOK AND PAGE NUMBER(S)	DB 5387	' PG 329	
PARCEL DEED BOOK AND PAGE NOWBER(3)	DB 5813	PG 1822	
CURRENT ZONING:	MF-M (17	7 DU/AC)	
TOTAL ACREAGE	7.19 ACRES	(313,133 SF)	
AREA OF PROPOSED PUBLIC RIGHT OF WAY	0.61 ACRES	(26,604 SF)	
REMAINING SITE	6.58 ACRES	(286,529 SF)	
MAX DENSITY ALLOWED	119 L	INITS	
DENSITY PROPOSED	96 U	NITS	
BUILDING SIZE WITH SQUARE FOOTAGE	45,506 G		
(2) BUILDING TYPE 1 (2) BUILDING TYPE 2	10,082 SI 11,061 SI		
(2) BUILDING TYPE 2 CLUBHOUSE	3,22		
NC BUILDING CODE CONSTRUCTION TYPE	VA		
BUILDING LOT COVERAGE	14.49%		
PROPOSED BUILDING HEIGHT	50' (BLDG. TYPE 1 & 2) 15		
NUMBER OF STORIES & SQUARE FEET PER FLOOR	CLUBHOUSE 3 STORIES, SF VARIES		
TOTAL AMOUNT OF DISTURBED AREA	6.60 ACRES (287,613 SF)		
CAMA LAND USE CLASSIFICATION	URBAN		
EXISTING IMPERVIOUS AREA	A 0		
IMPERVIOUS AREA (PROPOSE	ED)		
BUILDINGS	45,506	SF	
ROADWAYS AND PARKING	77,942	SF	
SIDEWALKS	17,231	SF	
OFF-SITE IMPERVIOUS (WITHIN PROPOSED PUBLIC R/W)	18,029	SF	
TOTAL S.F. (ONSITE IMPERVIOUS AREA)	140,679	SF	
PERCENTAGE (ONSITE IMPERVIOUS AREA/ONSITE AREA)	49.0	%	
PARKING CALCULATIONS			
PROPOSED USE:	MULTI-	FAMILY	
SPACES PROVIDED	18	37	
MAXIMUM SPACES ALLOWED (2.5 PER UNIT)	240		
MINIMUM SPACES REQUIRED	177		
36 1 BEDROOM UNITS @ 1.5 SPACES PER UNIT		ACES	
48 2 BEDROOM UNITS @ 2.0 SPACES PER UNIT		ACES	
12 3 BEDROOM UNITS @ 2.25 SPACES PER UNIT		ACES	
	6 (1)	,	
ACCESSIBLE SPACES PROVIDED BICYCLE PARKING SPACES REQUIRED	6 (1 VAN)		
BICYCLE PARKING SPACES REQUIRED	10		
TOTAL OPEN SPACE REQUIRED (35% OF SITE, EXCLUDING PUBLIC RIGHT OF WAY)		(100,285 SF)	
	2.30 ACRES (100,285 SF)		
OPEN SPACE PROVIDED REQUIRED ACTIVE OPEN SPACE (17.5% OF SITE,	2.58 ACRES (112,385 SF) 1.15 ACRES (50,142.5 SF)		
EXCLUDING PUBLIC RIGHT OF WAY) PROPOSED ACTIVE OPEN SPACE	1.15 ACRES (50,142.5 SF) 1.20 ACRES (52,272 SF)		
REQUIRED PASSIVE OPEN SPACE (17.5% OF SITE, EXCLUDING PUBLIC RIGHT OF WAY)	1.15 ACRES (50,142.5 SF)		
PROPOSED PASSIVE OPEN SPACE	1.38 ACRES (60,113 SF)		

50' 100' 1"=50' (Horiz.)	Approved Construction Name Planning Fire	n Plan Date	CITY OF	PROVED WILMINGTOM	N
SHIPYARD VILL 2821 CAROL WILMINGTON, TOWNSHIF	AGE APARTMENTS NA BEACH ROAD NORTH CAROLINA OF WILMINGTON	DRAV DESIC CHEC	PROJ. # 07010-0001 VN TCM/TSM GNED TCM/TSM CKED RMC . MGR. TSM	VERTICAL: N/A	M&C FILE NUMBER CS-101 DRAWING NUMBER 6 REVISION





UTILITY NOTES

- 1. SCHEDULE A PRECONSTRUCTION MEETING WITH CAPE FEAR PUBLIC UTILITY AUTHORITY 48 HOURS PRIOR TO CONSTRUCTION OF WATER AND SEWER LINES.
- 2. WATER AND SANITARY SEWER UTILITY MAINS ARE PRIVATE BEYOND THE PUBLIC STREET RIGHT-OF-WAY.
- 3. THIS PROJECT SHALL COMPLY WITH THE CFPUA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND NCDENR HAS ISSUED THE "FINAL APPROVAL".
- 4. ALL COMMERCIAL WATER SERVICES AND ANY IRRIGATION SYSTEMS SUPPLIED BY CFPUA WATER SHALL HAVE A BACKFLOW
- 5. BACKFLOW PREVENTION AND METERS WILL BE PROVIDED FOR BOTH FIRE LINES (RPDA) AND DOMESTIC SERVICE (RPZ). FIRE LINE BACKFLOW PREVENTER AND DOMESTIC SERVICE BACKFLOW PREVENTER WILL BE LOCATED AS SHOWN ON THE UTILITY PLANS. INSTALLER OF BACKFLOW PREVENTERS MUST CONTACT CFPUA PRIOR TO INSTALLING UNITS TO GIVE CFPUA THE OPTION TO VERIFY INSTALLATION PROCEDURES.
- 5.1. REDUCED PRESSURE PRINCIPLE ASSEMBLY FOR DOMESTIC WATER SERVICE

PREVENTION DEVICE ACCEPTABLE TO CFPUA AND APPROVED BY USCFCCCHR OR ASSE.

- 5.2. REDUCE PRESSURE DETECTOR ASSEMBLY WILL BE UTILIZED FOR THE BACKFLOW PREVENTER ON THE FIRE SERVICE.
- 6. IF THE CONTRACTOR DESIRES CFPUA WATER FOR CONSTRUCTION HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX.
- WATER: 1.5" & 2" PVC MAINS SHALL BE CONSTRUCTED USING ASTM D2241, IPS, GASKETED PIPE, SDR 21. 4"-12" PVC MAINS AND SERVICES SHALL BE CONSTRUCTED USING AWWA C-900 PVC, CL235 (DR-18).
- 8. SANITARY SEWER: FOR PIPE SIZES 4" AND 6" PIPE SHALL BE SCH 40 CONFORMING TO THE REQUIREMENTS OF ASTM D1785 WITH SOLVENT WELD JOINTS CONFORMING TO ASTM D2672. FOR PIPE SIZES 8" THROUGH 12", PIPE SHALL BE CLASS 150, DR18 CONFORMING TO THE REQUIREMENTS OF AWWA C900 WITH ELASTOMERIC PUSH-ON JOINTS CONFORMING TO ASTM D3212 OR ASTM D3139.
- 9. WATER AND SEWER SERVICES CANNOT BE ACTIVATED ON NEW MAINS UNTIL ENGINEER'S CERTIFICATION AND AS-BUILTS ARE RECEIVED AND "FINAL APPROVAL" ISSUED BY PUBLIC WATER SUPPLY SECTION OF NCDENR AND "FINAL ENGINEERING CERTIFICATION" ISSUED BY DIVISION OF WATER QUALITY OF NCDENR.
- 10. PVC WATER MAINS AND POLYETHYLENE SERVICES ARE TO BE MARKED WITH NO. 10 SINGLE STRAND INSULATED COPPER WIRE INSTALLED THE ENTIRE LENGTH AND STRAPPED TO THE PIPES WITH DUCT TAPE. THE INSULATED WIRE IS TO BE STRIPPED TO BARE WIRE AND SECURED TO ALL VALVES. THIS WIRE IS TO BE ACCESSIBLE AT ALL FIRE HYDRANTS AND WATER METER BOXES TO AID IN FUTURE LOCATION OF FACILITIES.
- 11. SITE UTILITY CONTRACTOR TO PROVIDE WATER AND SANITARY SEWER SERVICE TO WITHIN 5 FEET OF THE BUILDING. CONTRACTOR SHALL COORDINATE SITE PLAN CONNECTIONS WITH THE ARCHITECTURAL BUILDING PLANS.
- 12. MAXIMUM BENDING RADIUS FOR 8" C-900 PVC WATER MAIN BENDS IS 380' (ONE-HALF MANUFACTURER'S RECOMMENDED ALLOWABLE LONGITUDINAL BENDING).
- 13. <u>UNDERGROUND UTILITIES:</u> ALL NEW UTILITIES SHALL BE INSTALLED UNDERGROUND, EXCEPT WHERE SUCH PLACEMENT IS PROHIBITED OR DEEMED IMPRACTICAL BY THE UTILITY PROVIDER. UNDERGROUND TERMINAL FACILITIES FOR STREET LIGHTING ALONG THE PUBLIC STREETS ABUTTING THE SUBJECT SITE SHALL BE INSTALLED BY THE DEVELOPER.
- 14. MINIMUM OF 36" COVERAGE ABOVE ALL WATERMAINS.
- 15. MINIMUM OF 36" VERTICAL SEPARATION BETWEEN WATERLINES AND STORMDRAIN CURB INLETS
- 16. A VARIANCE IS NOT ANTICIPATED FROM ANY NORTH CAROLINA DIVISION OF WATER QUALITY (DWQ) REQUIREMENT.
- 17. PLANS ARE IN COMPLIANCE WITH CAPE FEAR PUBLIC UTILITY AUTHORITY TECHNICAL STANDARDS AND SPECIFICATIONS.
- RELATION OF WATER MAINS TO SANITARY SEWERS:
- 1. LATERAL SEPARATION OF SANITARY SEWERS AND WATER MAINS: WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWERS UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10 FOOT LATERAL SEPARATION, IN WHICH CASE:
- 1.1. THE WATER MAIN IS LAID IN A SEPARATE TRENCH, WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER, OR
 1.2. THE WATER MAIN IS LAID IN THE SAME TRENCH AS THE SEWER WITH THE WATER MAIN LOCATED AT ONE SIDE ON A BENCH OF UNDISTURBED EARTH, AND ABOVE THE TOP OF THE SEWER.
- 2. CROSSING A WATER MAIN OVER A SEWER MAIN: WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 24 INCHES ABOVE THE TOP OF THE SEWER MAIN. UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT AN 18 INCH VERTICAL SEPARATION - IN WHICH CASE BOTH THE WATER MAIN AND THE SEWER MAIN SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.
- 3. CROSSING A WATER MAIN UNDER A SEWER MAIN: WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER MAIN BOTH THE WATER MAIN AND THE SEWER MAIN SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.
- 4. CROSSING A SEWER MAIN/WATER MAIN OVER OR UNDER A STORM DRAIN: WHENEVER IT IS NECESSARY FOR A SEWER MAIN/WATER MAIN TO CROSS A STORM DRAIN PIPE, THE SEWER MAIN/WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE OUTSIDE OF THE SEWER MAIN/WATER MAIN NEAREST TO THE OUTSIDE OF THE STORM DRAIN PIPE SHALL MAINTAIN A 24 INCH CLEAR SEPARATION DISTANCE HORIZONTAL, OR THE SEWER MAIN/WATER MAIN SHALL EITHER BE CONSTRUCTED OF DUCTILE IRON PIPE OR ENCASED IN EITHER CONCRETE OR DUCTILE IRON PIPE FOR AT LEAST 5 FEET ON EITHER SIDE OF THE CROSSING.

UTILITY COMPANY CONTACTS

DUKE/PROGRESS ENERGY: SID LIVINGSTON/MARK HATFIELD (910) 452-2777

DUKE ENERGY (TRANSMISSION): BILL WILDER (910) 772-4903

- AT&T (BELLSOUTH): JAMES BATSON (910) 452-5300
- TIME WARNER CABLE: ROBERT JOHN (910) 216-4494

PIEDMONT NATURAL GAS: PAUL GONKA (910) 512–2841 DJ MEDEIROS (910) 431–3233

CAPE FEAR PUBLIC UTILITY AUTHORITY (910) 332-6550

FIRE PROTECTION NOTES:

- 1. HYDRANT MUST BE WITHIN 150' OF THE FDC.
- 2. THE FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.
- 3. 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.
- 4. HYDRANTS MUST BE LOCATED WITHIN 8' OF THE CURB.
- 5. COMBUSTIBLE MATERIALS MAY NOT BE STORED OR ERECTED ONSITE WITHOUT CITY FIRE INSPECTOR APPROVAL.
- 6. NEW HYDRANTS MUST BE AVAILABLE FOR USE PRIOR TO CONSTRUCTION OF THE BUILDING(S).
- 7. UNDERGROUND FIRE LINE AND PRIVATE WATER MAINS MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC RIGHT-OF-WAY TO THE BUILDING. CONTACT THE WILMINGTON FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910-343-0696 FOR ADDITIONAL INFORMATION.
- 8. A MINIMUM OF 5' SHALL SEPARATE UNDERGROUND FIRE LINES OR PRIVATE WATER MAINS FROM UNDERGROUND UTILITIES
- 9. CONTRACTOR SHALL MAINTAIN AN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
- BEFORE YOU DIG STOP 1-800-632-4949 AVOID UTILITY DAMAGE
- 10. TEMPORARY STREET SIGNS SHALL BE INSTALLED AT EACH STREET INTERSECTION WHEN PHONE# 1-800-632-4949 CONSTRUCTION OF NEW ROADWAYS ALLOWS PASSAGE BY VEHICLES. M&C FILE NUMB SHIPYARD VILLAGE APARTMENTS 4 MAR 2016 DATE SCALE CU-101 MCE PROJ. # 07010-000 2821 CAROLINA BEACH ROAD HORIZONTAL TCM/TSM DRAWN WILMINGTON, NORTH CAROLINA 1"=50' TCM/TSM DESIGNED TOWNSHIP OF WILMINGTON 9 VERTICAI CHECKED RMC N/A TSM PROJ. MGR. UTILITY PLAN STATUS: PRELIMINARY PLANS

ARK HATFIELD (910) 452–2777 3 (910) 772–4903

CAPE FEAR PUBLIC UTILITY AUTHORITY STANDARD SEWER NOTES

- SEWER GUARDS REQUIRED AT ALL MANHOLES. STAINLESS STEEL SEWER GUARDS REQUIRED AT MANHOLES LOCATED IN TRAFFIC AREAS.
 SERVICES SHALL BE PERPENDICULAR TO MAIN AND TERMINATE
- AT RIGHT-OF-WAY LINE. SERVICES IN CUL-DE-SACS ARE REQUIRED TO BE PERPENDICULAR, OR MUST ORIGINATE IN MANHOLE AND TERMINATE AT RIGHT-OF-WAY LINE. 3. ALL SERVICES TYING INTO DUCTILE IRON MAINS SHALL BE
- CONSTRUCTED OF CLASS 50, DIP, WITH PROTECTO 401 CERAMIC EPOXY LINING. 4. MINIMUM 10' UTILITIES EASEMENT PROVIDED ALONG THE FRONTAGE
- OF ALL LOTS AND AS SHOWN FOR NEW DEVELOPMENTS. 5. NO FLEXIBLE COUPLINGS SHALL BE USED.
- 6. ALL STAINLESS STEEL FASTENERS SHALL BE 316.
 - ANTS. A THE HYDRANT

NOT FOR CONSTRUCTION