

RIVERLIGHTS MARINA VILLAGE- PHASE 1B CITY OF WILMINGTON, NC MARCH 17, 2016 (REVISED AUG. 23, 2016)

CITY AND AGENCY CONTACTS

- A. City of Wilmington **Planning Department 102 North Third Street** PO BOX 1810 Wilmington, NC 28402-1810 (910)341-7800 **Contact: Ron Satterfield** Email: Ron.Satterfield@wilmingtonnc.gov
- B. City of Wilmington Engineering **212 Operations Center Drive** PO BOX 1810 Wilmington, NC 28402-1810 (910) 341-7807 **Contact: Rob Gordon** Email: Rob.Gordon@wilmingtonnc.gov
- C. New Hanover County **Sediment and Erosion Control** 230 Government Center Drive, Suite 160 Wilmington, NC 28403 (910) 798-7432 **Contact: Beth Wetherill** Email: BWetherill@nhcgov.com
- **D.** Cape Fear Public Utility Authority **235 Government Center Drive** Wilmington, NC 28403 (910) 332-6626 **Contact: David Dailey** Email: David.Dailey@cfpua.org
- E. NCDENR **Division of Environmental Health Public Water Supply Section 1634 Mail Service Center** Raleigh, NC 27699-1634 (919) 707-9075 **Contact: Christyn Fertenbaugh** Email: christyn.fertenbaugh@ncdenr.gov

PROJECT DATA

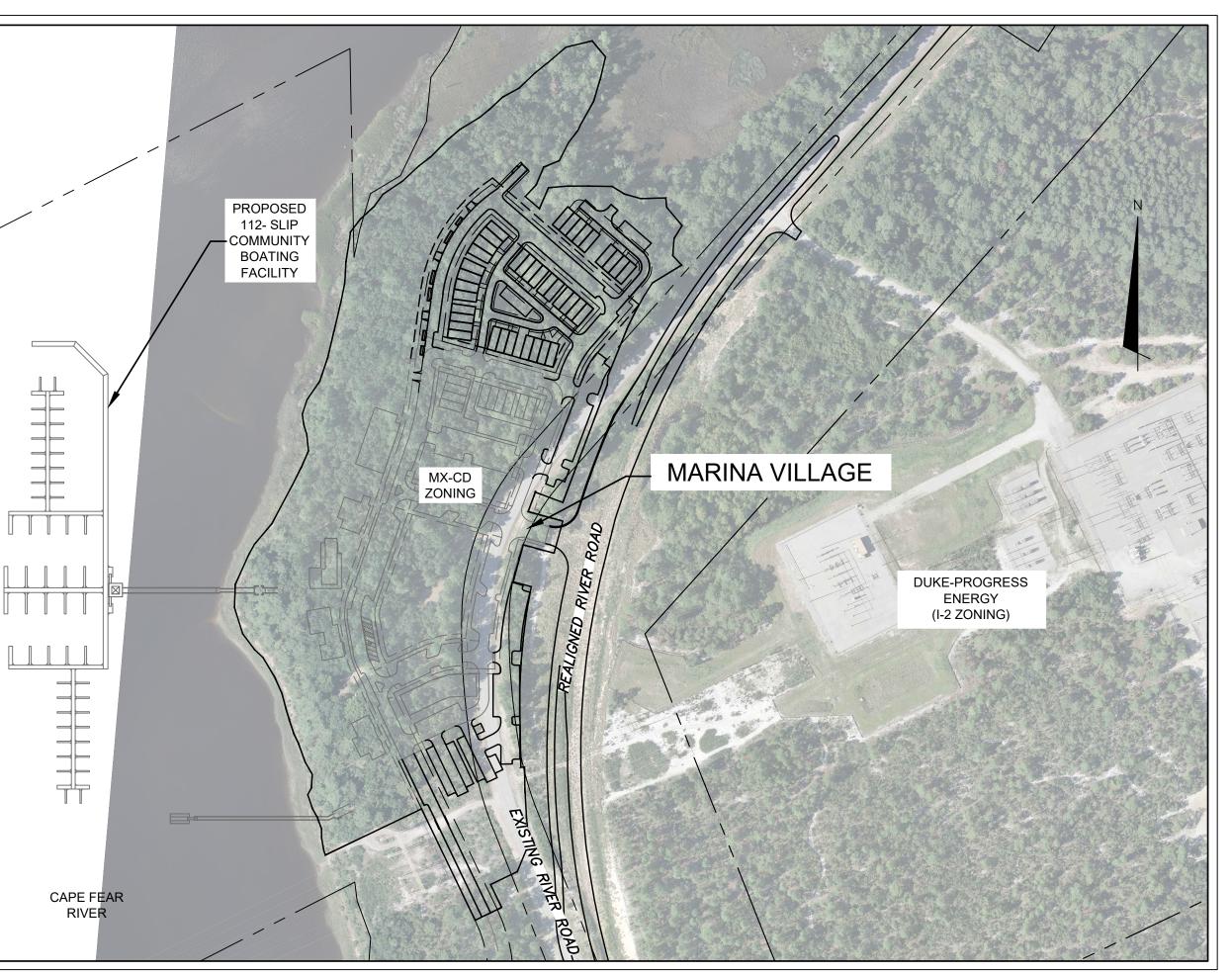
NAME OF PROJECT: **RIVERLIGHTS - MARINA VILLAGE PHASE 1B** WILMINGTON, NORTH CAROLINA

OWNER/DEVELOPER:

NNP IV-CAPE FEAR RIVER, LLC 3410 RIVER ROAD, SUITE 103 WILMINGTON, NC 28412 PHONE: (704)813-8697 **CONTACT: DOUG BROWN**

PREPARED BY: MCKIM & CREED, INC 243 NORTH FRONT ST WILMINGTON, NC 28401 PHONE: (910)343-1048 FAX: (910)251-8282 CONTACT: NICK LAURETTA, PE, LEED AP EMAIL: NLAURETTA@MCKIMCREED.COM

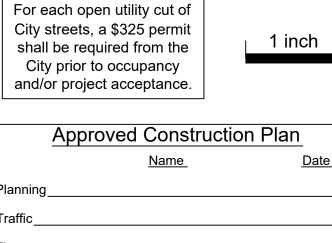
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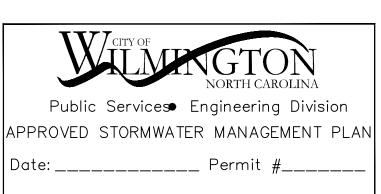


VICINITY MAP

1'=200'









243 North Front Street Wilmington, North Carolina 28401 Phone: (910)343-1048 , Fax: (910)251-8282 License: F-1222

Signed:

www.mckimcreed.com

		SHEET INDEX
SHEET	SHEET	
NUMBER	TITLE	SHEET DESCRIPTION
1	G-001	COVER
2	- C - 002	ABBREVATIONS & LEGEND
3	6-003	GENERAL NOTES
	<u> </u>	EXISTING CONDITIONS SITE INVENTORY MAP
5	CX-102	TREE REMOVAL PLAN
6	CE 101	PHASE 1 SEDIMENT & EROSION CONTROL PLAN
7	CE 102	PHASE 2 SEDIMENT & EROSION CONTROL PLAN
8	CG-101	GRADING PLAN NORTH
9	<u>CC 102</u>	CRADING PLAN SOUTH
10	CG-103	STORM DRAINAGE PLAN
11	CS-100	OVERALL SITE PLAN
12	CS-101	SITE PLAN
13	CS-102	SITE PLAN NORTH
14	<u> CS-103</u>	SITE PLAN SOUTH
	CU-101	UTILITY PLAN
- 15A	CU-102	UTILITY PROFILE INDEX SHEET
- 16	CU-701	PLAN AND PROFILE
	CU 702	PLAN AND PROFILE
	CU-703	PLAN AND PROFILE
19	L-160	OVERALL PLANTING PLAN SHEET REFERENCE
20	L-161	PLANTING PLAN NORTH
21	L-162	PLANTING PLAN SOUTH
		PLANTING PLAN SOUTH LANDSCAPE DETAILS
21	L-162	
21 22	L-162 L-501	LANDSCAPE DETAILS
21 22 23	L-162 L-501 CN 501	LANDSCAPE DETAILS STORMWATER MANAGEMENT DETAILS
21 22 23 24	L-162 L-501 CN 501 CT-301	LANDSCAPE DETAILS STORMWATER MANAGEMENT DETAILS ROADWAY SECTIONS
21 22 23 24 25	L-162 L-501 CN 501 CT-301 CE 501	LANDSCAPE DETAILS STORMWATER MANAGEMENT DETAILS ROADWAY SECTIONS SEDIMENT & EROSION CONTROL DETAILS
21 22 23 24 25 26	L-162 L-501 CT-301 CE 501 CE 502	LANDSCAPE DETAILS STORMWATER MANAGEMENT DETAILS ROADWAY SECTIONS SEDIMENT & EROSION CONTROL DETAILS SEDIMENT & EROSION CONTROL DETAILS
21 22 23 24 25 26 27	L-162 L-501 CT-301 CE 501 CE 502 CS-501	LANDSCAPE DETAILS STORMWATER MANAGEMENT DETAILS ROADWAY SECTIONS SEDIMENT & EROSION CONTROL DETAILS SEDIMENT & EROSION CONTROL DETAILS SITE DETAILS
21 22 	L-162 L-501 CT-301 CE 501 CE 502 CS-501 CS-502	LANDSCAPE DETAILS STORMWATER MANAGEMENT DETAILS ROADWAY SECTIONS SEDIMENT & EROSION CONTROL DETAILS SEDIMENT & EROSION CONTROL DETAILS SITE DETAILS SITE DETAILS
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$ \begin{array}{r} 21 \\ 22 \\ -23 \\ 24 \\ -25 \\ -26 \\ 27 \\ 28 \\ -29 \\ -30 \\ -31 \\ \end{array} $	L-162 L-501 CT-301 CE 501 CE 502 CS-501 CS-502 CS-502 CS-502 CG 501 CG 502 CG-503	LANDSCAPE DETAILS STORMWATER MANAGEMENT DETAILS ROADWAY SECTIONS SEDIMENT & EROSION CONTROL DETAILS SEDIMENT & EROSION CONTROL DETAILS SITE DETAILS SITE DETAILS SITE DETAILS STORMWATER DRAINAGE DETAILS STORMWATER DRAINAGE DETAILS STORMWATER DRAINAGE DETAILS
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$ \begin{array}{r} 21 \\ 22 \\ -23 \\ 24 \\ -25 \\ -26 \\ 27 \\ 28 \\ -29 \\ -30 \\ -31 \\ -32 \\ -33 \\ -34 \\ \end{array} $	L-162 L-501 CT-301 CT-301 CE 501 CE 502 CS-501 CS-502 CS-502 CG 501 CG 502 CG 503 WSD 1 WSD 2 SSD 1	LANDSCAPE DETAILS STORMWATER MANAGEMENT DETAILS ROADWAY SECTIONS SEDIMENT & EROSION CONTROL DETAILS SEDIMENT & EROSION CONTROL DETAILS SEDIMENT & EROSION CONTROL DETAILS SITE DETAILS SITE DETAILS STORMWATER DRAINAGE DETAILS STORMWATER DRAINAGE DETAILS STORMWATER DRAINAGE DETAILS UTILITY DETAILS UTILITY DETAILS UTILITY DETAILS
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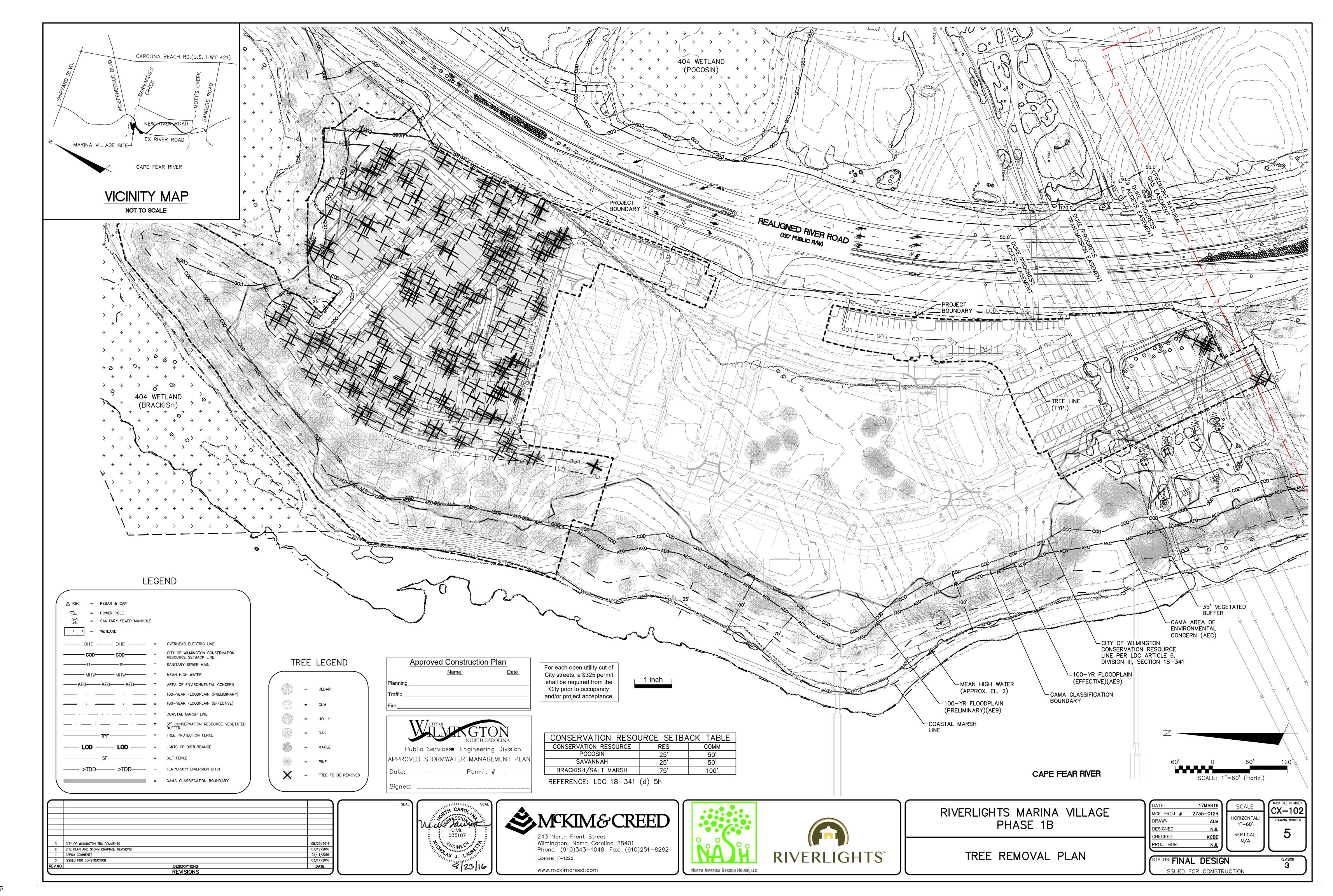


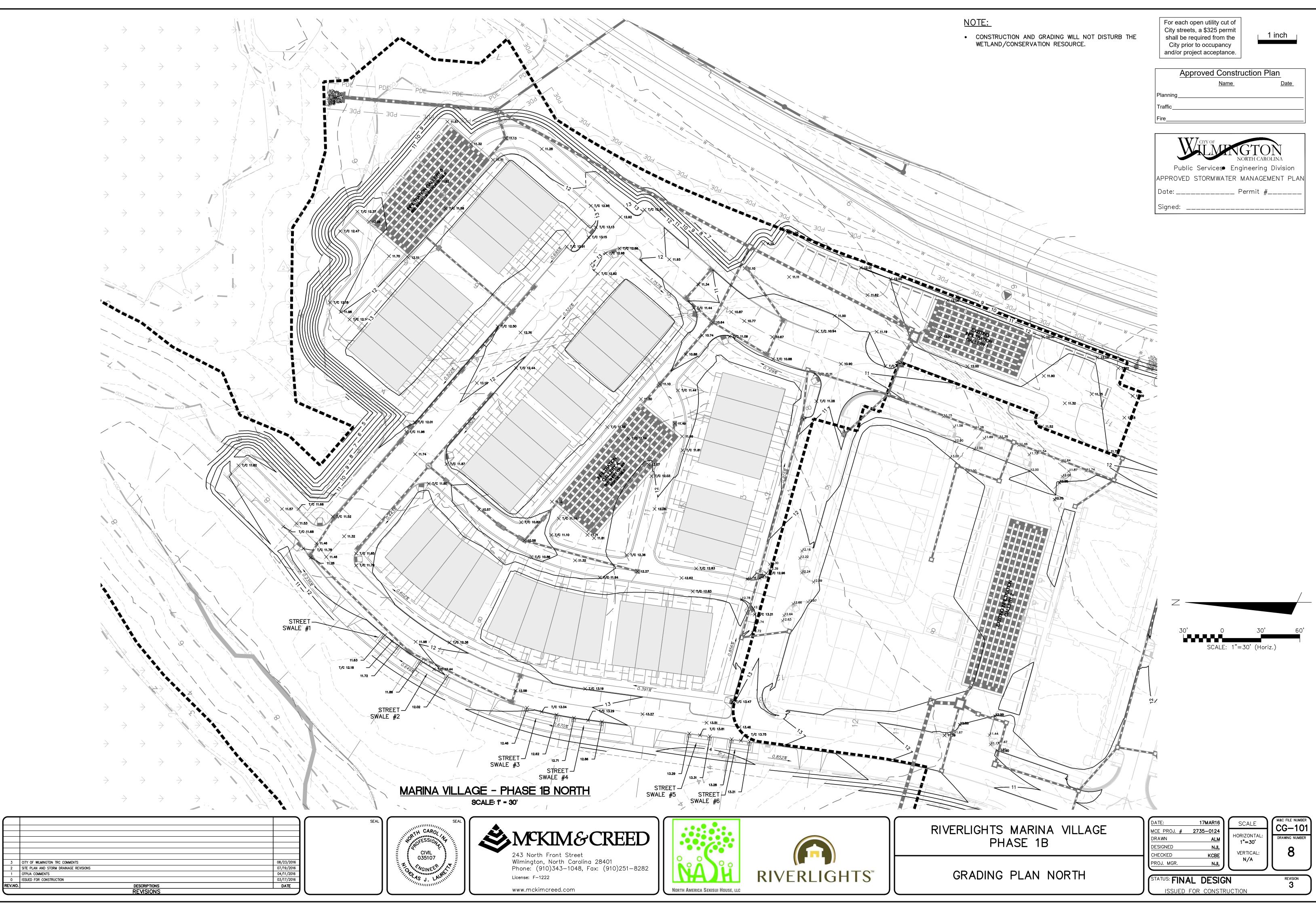




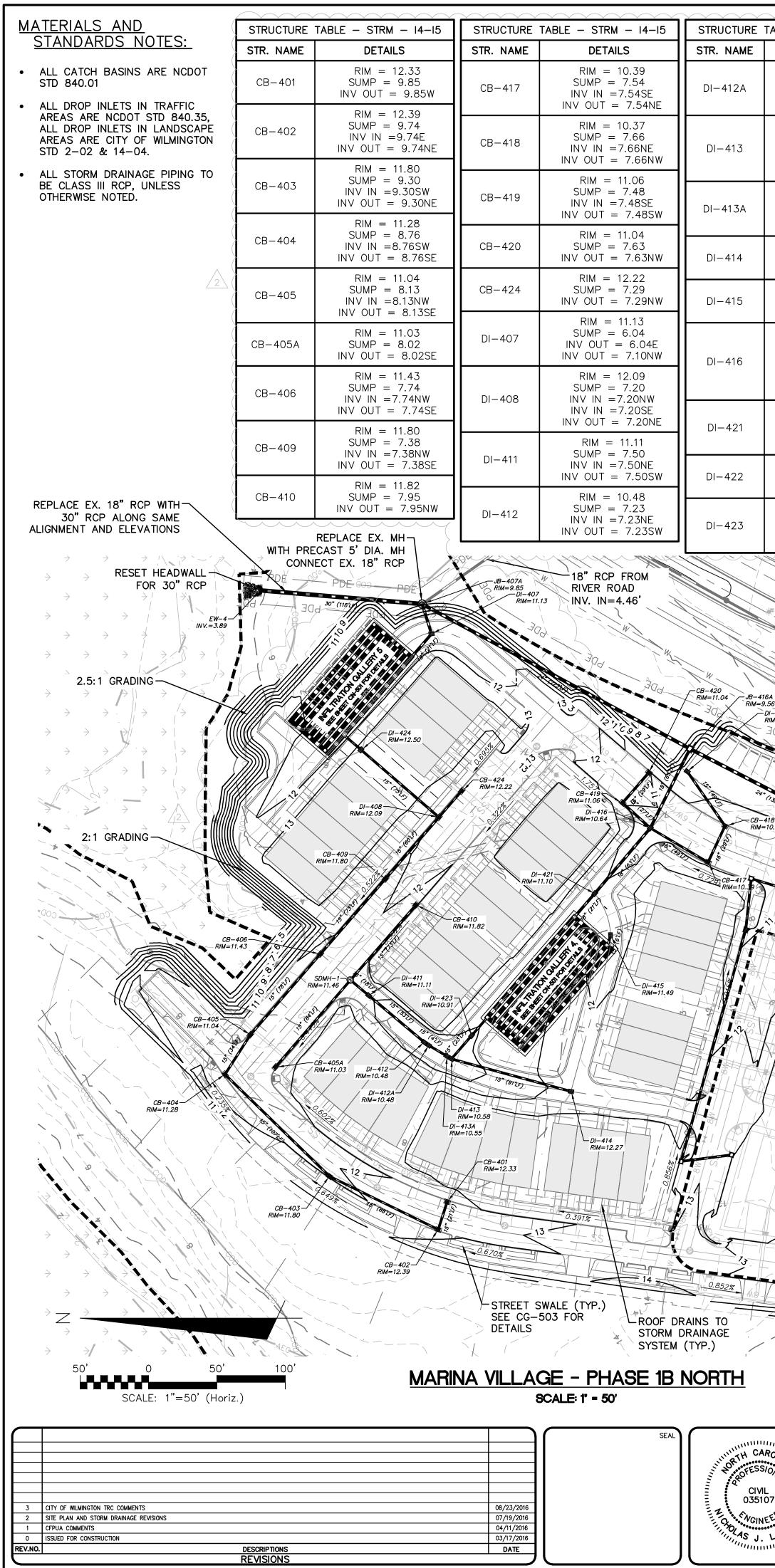
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IRE 1	TABLE – STRM – 14–15	STRUCTURE	TABLE – STRM – 14–15	STRUCTURE 1	FABLE – STRM – I3B		STO	RM DRAIN	AGE PI	IP
ИE	DETAILS	STR. NAME	DETAILS	STR. NAME	DETAILS	FROM	то	LENGTH	SIZE	
	RIM = 10.48 SUMP = 7.23	DI-424	RIM = 12.50 SUMP = 6.03	DI-501	RIM = 12.11 SUMP = 7.57	SDMH-1	DI-411	17.50'	15"	╞
•	INV IN = 7.23NE INV OUT = 7.23SW	DI-424	INV IN =7.03SW INV OUT = 7.03NE		INV OUT = 8.57N	JB-416A	JB-407A	222.59'	24"	
	RIM = 10.58		RIM = 7.00	DI-502	RIM = 10.75 SUMP = 7.14	JB-4074	EW-4	118.34'	30"	
	$\begin{array}{l} \text{SUMP} = 7.16 \\ \text{INV} \text{ IN} = 7.16 \text{NE} \end{array}$	EW-4	INV IN =3.89S	51 002	INV IN =8.14N INV OUT = 8.14S	DI-424	I-5A	15.00'	15"	
	INV IN = 7.16S INV OUT = 7.16SE	I-4A	RIM = 11.07 SUMP = 7.00		RIM = 10.75 SUMP = 7.14	DI-423	I-4A	16.00'	15"	
	RIM = 10.55 SUMP = 7.16	1—4A	INV IN =7.00NW	DI-502A	INV IN = 8.14N INV OUT = 8.14S	DI-422	CB-418	48.51'	15"	
4	INV IN =7.16NE INV OUT = 7.16SW	I-4B	RIM = 11.58 SUMP = 7.00		RIM = 10.86	DI-421	I-4C	21.30'	18"	
	RIM = 12.27		INV IN =7.00E	DI-503	SUMP = 7.54 INV OUT = 8.54S	DI-416	JB-416A	64.81'	18"	
	$\begin{array}{rcl} \text{SUMP} &=& 7.61 \\ \text{INV} & \text{OUT} &=& 7.61 \\ \end{array}$	I-4C	RIM = 11.25 SUMP = 7.00		RIM = 10.48	DI-416	DI-421	62.85'	18"	L
	RIM = 11.49		INV IN =7.00SE	EX. CB-318	$\begin{array}{l} \text{SUMP} = 7.76 \\ \text{INV} \text{ IN} = 7.76E \end{array}$	DI-415	I-4B	6.39'	15"	┡
	SUMP = 6.08 INV OUT = 7.08W	I-5A	RIM = 11.81 SUMP = 7.00		RIM = 10.92	DI-414	DI-413	90.58'	15"	╞
	RIM = 10.64		INV IN = 7.00SW RIM = 11.33	SDMH-2	$\begin{array}{l} \text{SUMP} = 6.95 \\ \text{INV} \text{ IN} = 7.95 \\ \text{NV} \text{ IN} = 7.95 \\ \text{IN} = 7.9$	DI-413A		4.01'	15"	╞
	$\begin{array}{l} \text{SUMP} = 6.34 \\ \text{INV} \text{ IN} = 7.34 \text{NE} \\ \text{INV} \text{ IN} = 7.34 \text{NE} \end{array}$	I-5B	SUMP = 7.00 INV IN =7.00SE		INV IN =7.95S INV OUT = 7.95W	DI-413	DI-423	22.64'	15"	╞
	INV IN = 7.34SW INV OUT = 7.34NW		RIM = 9.85	STRUCTURE 1	TABLE – STRM – 14–15	DI-412A	-	15.31'	15" 15"	┝
	INV OUT = 7.34SE RIM = 11.10	JB-407A	SUMP = 4.46 $INV IN = 4.46SW$	STR. NAME	DETAILS	DI-412	DI-412A	3.97' 53.12'		┝
	SUMP = 6.09 INV IN =7.09SE		INV OUT = 4.46N		RIM = 11.46 SUMP = 7.59	DI-408	DI-424	75.34'	15"	
	INV OUT = 7.09NW		RIM = 9.56 SUMP = 7.00	SDMH-1	INV IN = 7.59SE INV IN = 7.59NW	DI-407	JB-407A	22.85'	18"	\vdash
	RIM = 11.10 SUMP = 6.85	JB-416A	INV IN = 7.00NW INV IN = 7.00SW		INV OUT = 7.59SW	DI-407	I-5B	20.91'	18"	
	INV OUT = 7.85SW		INV OUT = 7.00NE			CB-424	DI-408	25.50'	15"	
	RIM = 10.91 SUMP = 6.07 INV IN =7.07NW					CB-420	CB-419	29.30'	15"	
🖌 F	56 DI-422 RIM=11.10'	REMOVE HEADWA	FM FM FM							
		AND 24" RCP		21100	LOE LOE				W N=502 RIM=10.75	
CB-4 RIM=	118 10.37 EXE					DI-503 RIM=10.86	15* (1101-5-)	15"	17 (38'LF)	
										A 13 (402.6)
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• CONSTRUCTION AND GRADING WILL NOT DISTURB THE WETLAND/CONSERVATION RESOURCE.

77 SDMH-2 RIM=10.92



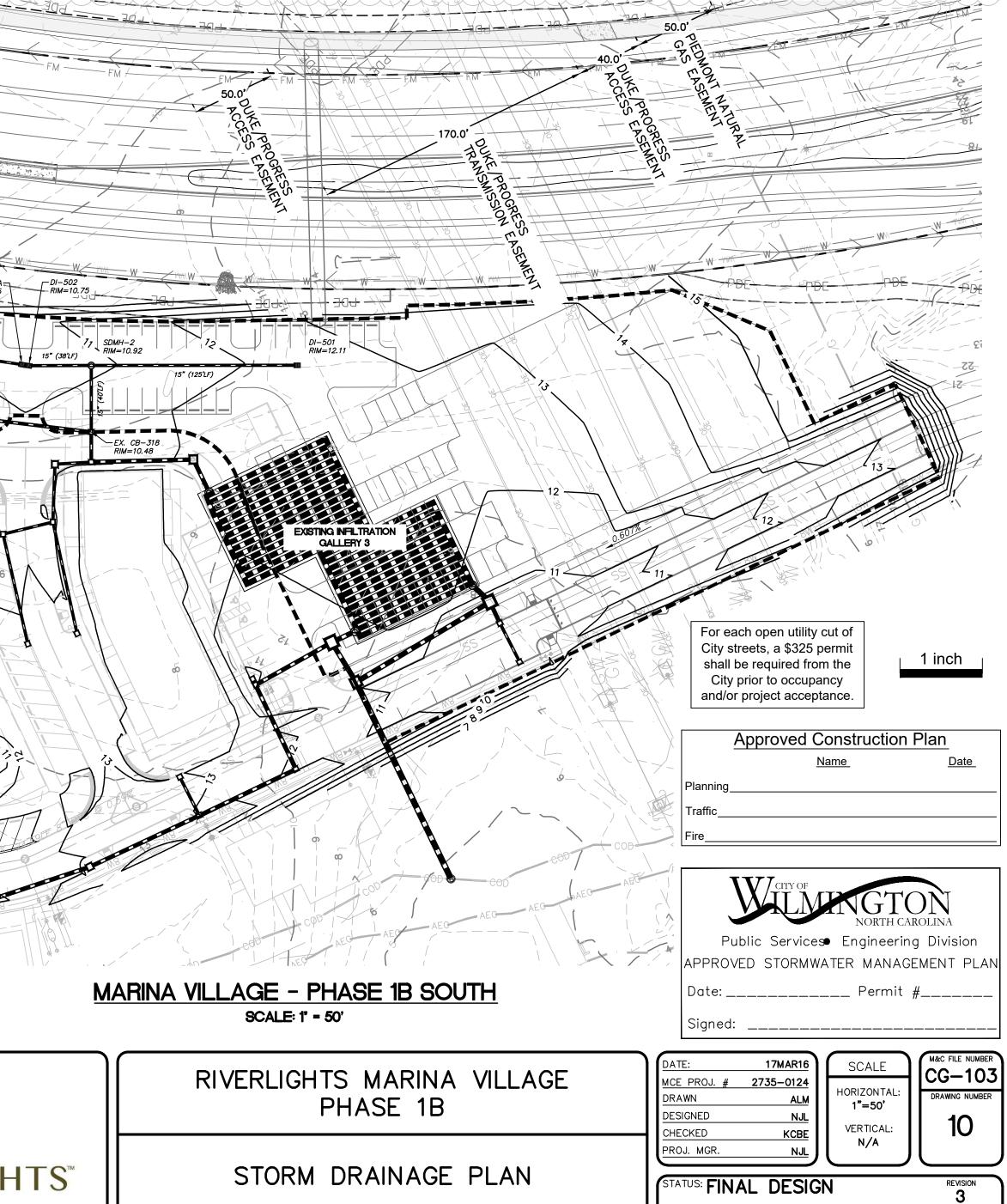
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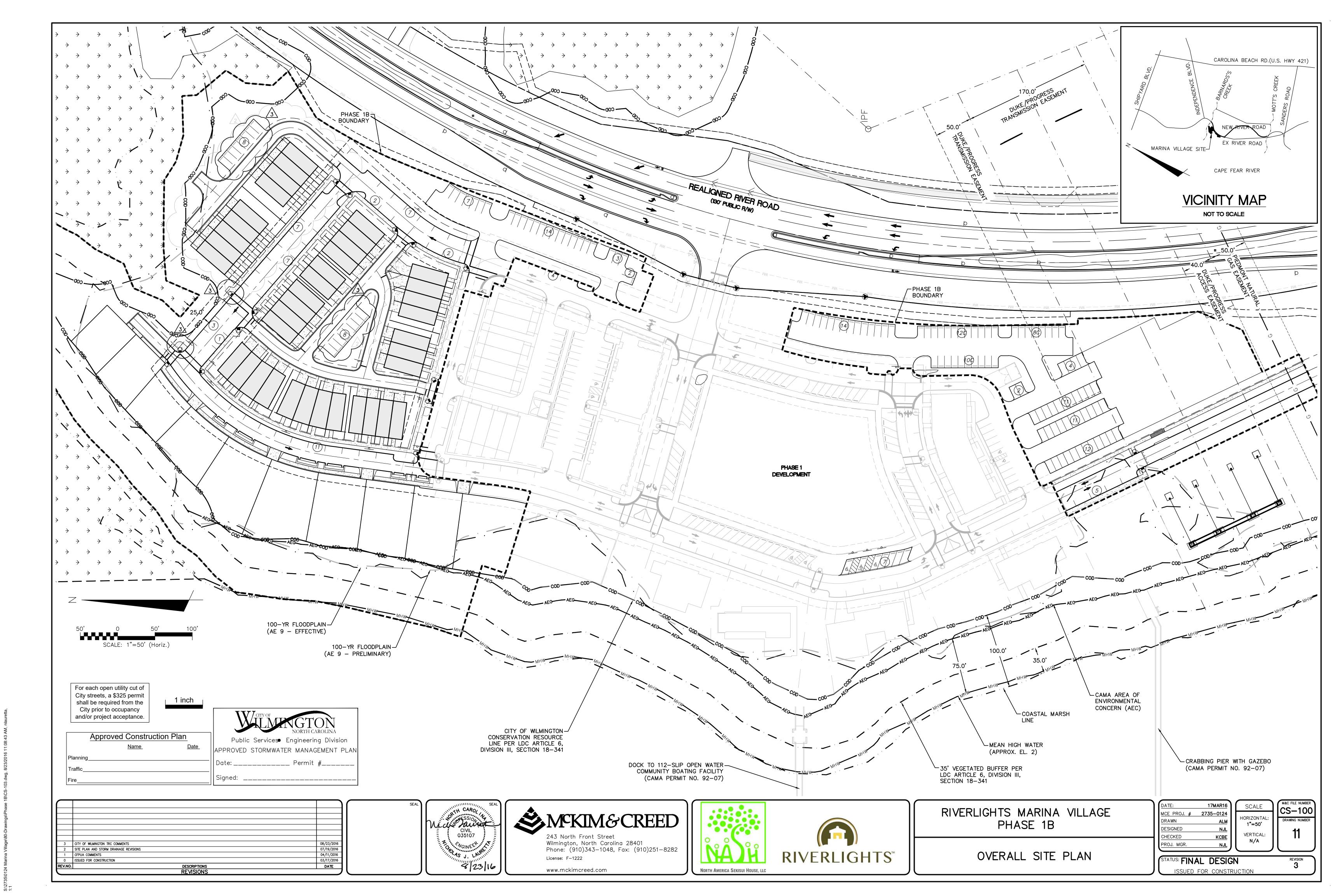


M DRAIN	AGE PI	IPE DATA TABLE	– STRM	1 - 14-15			STORM	DRAINAG	E PIPI	E DATA TABI	E – STR	RM - 14-15	
LENGTH	SIZE	PIPE TYPE	SLOPE	UPSTREAM INVERT	DOWNSTREAM INVERT	FROM	то	LENGTH	SIZE	PIPE TYPE	SLOPE	UPSTREAM INVERT	DOWNSTREAM INVERT
17.50 '	15"	RCP	0.51%	7.59 '	7.50'	CB-419	DI-416	27.40'	15"	RCP	0.50%	7.48'	7.34'
222.59'	24"	RCP	1.14%	7.00'	4.46'	CB-418	CB-417	29.30'	15"	CL IV RCP	0.40%	7.66'	7.54'
118.34'	30"	RCP	0.48%	4.46'	3.89'	CB-417	DI-416	48.99'	15"	CL IV RCP	0.40%	7.54'	7.34'
15.00'	15"	CAP	0.22%	7.03'	7.00'	CB-410	SDMH-1	72.71'	15"	RCP	0.50%	7.95'	7.59'
16.00'	15"	САР	0.42%	7.07 '	7.00'	CB-409	DI-408	59.62'	15"	RCP	0.30%	7.38'	7.20'
48.51 '	15"	CL IV RCP	0.40%	7.85'	7.66'	CB-406	CB-409	72.73'	15"	RCP	0.50%	7.74'	7.38'
21.30'	18"	САР	0.40%	7.09'	7.00'	CB-405A	SDMH-1	84.00'	15"	RCP	0.51%	8.02'	7.59'
64.81'	18"	DUAL 18" RCP	0.52%	7.34'	7.00'	CB-405	CB-406	78.03'	15"	RCP	0.50%	8.13'	7.74'
62.85'	18"	RCP	0.40%	7.34'	7.09'	CB-404	CB-405	34.46'	15"	CL IV RCP	1.83%	8.76'	8.13 '
6.39'	15"	САР	1.25%	7.08'	7.00'	CB-403	CB-404	106.80'	15"	CL IV RCP	0.50%	9.30'	8.76'
90.58'	15"	RCP	0.50%	7.61'	7.16'	CB-402	CB-403	88.45'	15"	CL IV RCP	0.50%	9.74'	9.30'
4.01'	15"	RCP	0.00%	7.16'	7.16'	CB-401	CB-402	21.30'	15"	CL IV RCP	0.50%	9.85'	9.74'
22.64'	15"	RCP	0.42%	7.16'	7.07'		JB-416A	138.32'	24"	RCP	0.06%	7.08'	7.00'
15.31'	15"	RCP	0.46%	7.23'	7.16'	STORM DRAINAGE PIPE DATA TABLE – STRM – I3B							
3.97'	15"	RCP	0.00%	7.23'	7.23'	FROM	то	LENGT	+ siz	E PIPE TYP	E SLOPE		DOWNSTREA
53.12 '	15"	RCP	0.51%	7.50 '	7.23'	SDMH-2	EX. CB-318	40.27	' 15	" RCP	0.48%	-	7.76'
75.34'	15"	RCP	0.22%	7.20'	7.03'	DI-503	DI-502A	109.99		" CL IV RC			8.14'
22.85'	18"	RCP	2.54%	6.04'	5.46'	DI-502A	DI-502	4.01'	15			-	8.14'
20.91'	18"	CAP	0.50%	7.10'	7.00'	DI-502	SDMH-2	37.99	_			-	7.95'
25.50'	15"	RCP	0.34%	7.29'	7.20'	DI-501	SDMH-2	124.80	_		0.50%	-	7.95
29.30'	15"	RCP	0.50%	7.63'	7.48'	01-001		124.00			0.007	° 0.07	7.30

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\rightarrow	16.0'
SITE DATA TABLE MARINA VILLAGE – PHASE 1B / PARCEL ADDRESS 4410 RIVER ROAD /	DRIVEN SF
TAX PARCEL IDENTIFICATION NUMBER R07000-006-009-000 ZONING DISTRICT CD-MX	10.0 [°] EA
CAMA LAND USE CLASSIFICATION TRANSITION AND CONSERVATION	- <u>AF2D</u>
ACREAGE WITHIN THE RIVERLIGHTS BOUNDARY 1,329.41 ACRES (57,909,100 SF) REAGE WITHIN THE MARINA VILLAGE BOUNDARY 38.67 ACRES (1,684,343 SF)	
TOTAL ACREAGE OF COASTAL WETLANDS14.57 ACRES (634,715 SF)PROJECT AREA (STORMWATER PROJECT AREA)24.10 ACRES (1,049,628 SF)	
C OF NON-COASTAL WETLANDS (ISOLATED/404)76,797 SF (1.76 ACRES)PARKINEAGE WITHIN THE MARINA VILLAGE - PHASE 1B9.84 ACRES (428,668 SF)MINIMUM NUMBE	
ING SETBACKS AND SEPARATIONS (MX ZONING) REQUIRED PROPOSED MAXIMUM NUMB FRONT N/A N/A (48) TOWNHO	
REAR N/A N/A (24) APARTME	•
SIDE (INTERIOR) N/A N/A RESTAURANTS	(1 SPACE
TOTAL BUILDING(S) SIZE (SQUARE FOOTAGE)68,000 SFART GALLERY (RIVER HOUSENC BUILDING CODE CONSTRUCTION TYPEVBRIVER HOUSE	
BUILDING LOT COVERAGE 16% RETAIL (*	(1 SPACE 1 SPACE
TOTAL AMOUNT OF DISTURBED AREA 5.24 AC (228,450 SF) PARKING SPACE	es provie
WITHIN 100-YR FLOODPLAIN/BELOW MHW MARK0.01 ACRES (513 SF)PARKING SPACES WITHIN WETLANDS (DWQ PROJECT #07-1335)N/APARKING SPACE	
	CT CAR P
ROOF TOPS 52,249 SF BICYCLE PA	ARKING SP
PARKING 0 SF HAN	IDICAP SP
SIDEWALKS 35,408 SF OTHER 0 SF SURFACE M/	
TOTAL PRE DEVELOPMENT/% 180,449/17.2 SF/%	ASPHAL
ROOF TOPS 71,516 SF	
ROADWAYS 51,562 SF PARKING 43,575 SF	ASPHAL
PERVIOUS PARKING OSF	GRAVEL
	PERVIOU
PERVIOUS SIDEWALK 0 SF	ROOFTOF
FUTURE ALLOTMENT O SF OTHER O SF	SIDEWAL
TOTAL S.F. (ONSITE IMPERVIOUS AREA) 188,731 SF	
TAGE (ONSITE IMPERVIOUS AREA/ONSITE AREA) 18.0 % EXIST. ONSITE IMPERVIOUS AREA/ONSITE AREA) 17.2 %	COMMON
FOOTAGE OF IMPERVIOUS SURFACES SHOWN IN	

07/19/2016 04/11/2016 03/17/2016

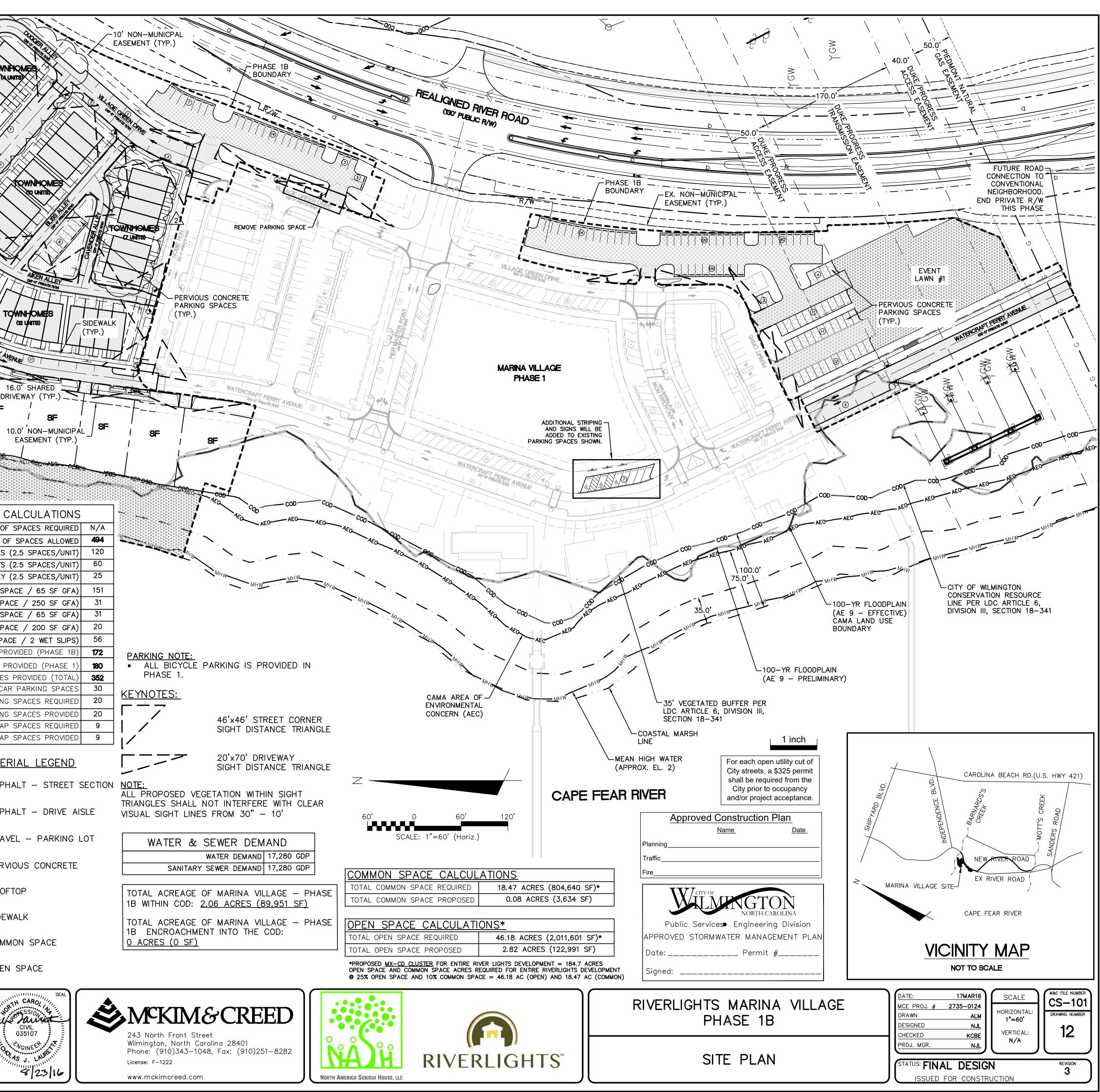
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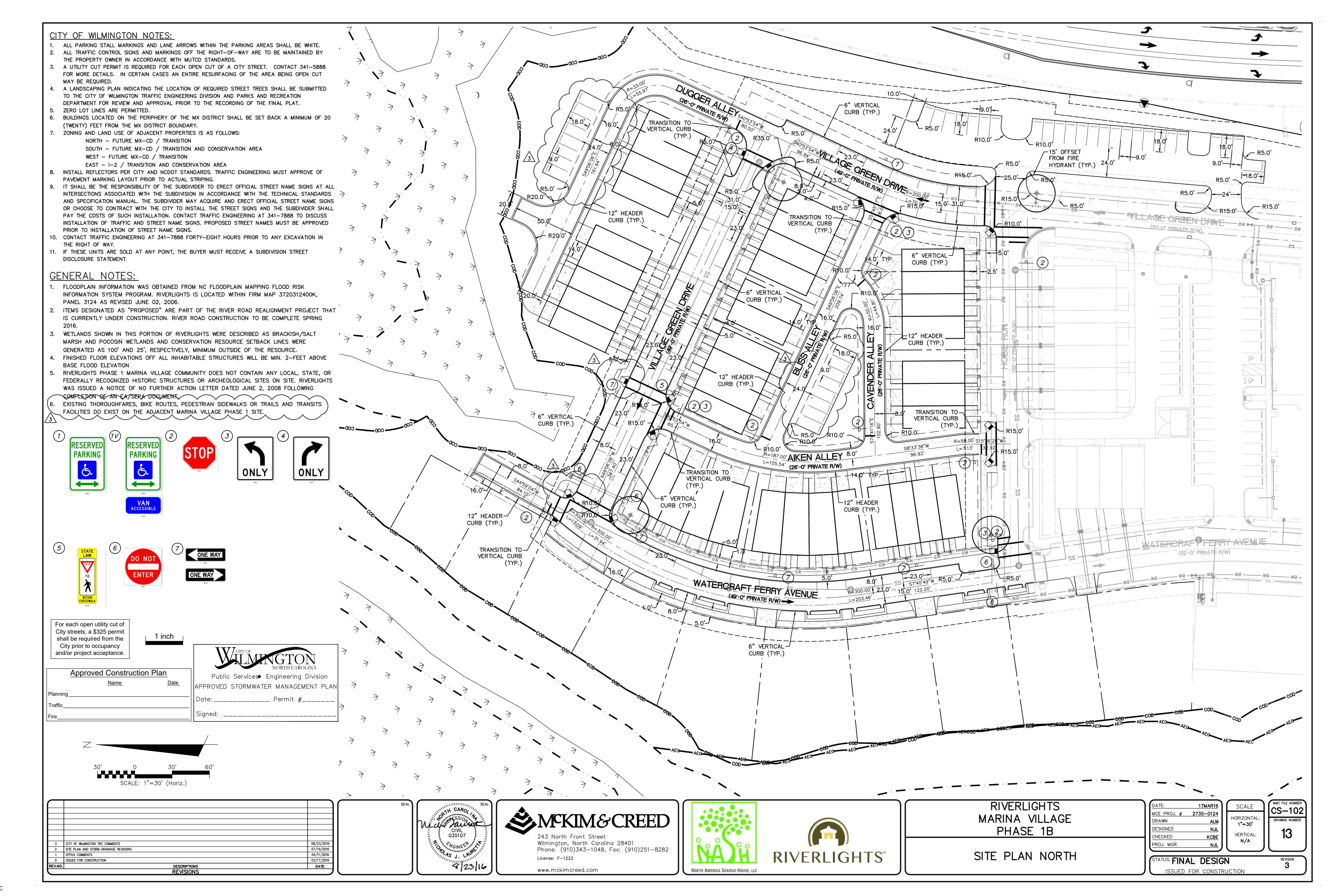
DESCRIPTIONS

CFPUA COMMENTS

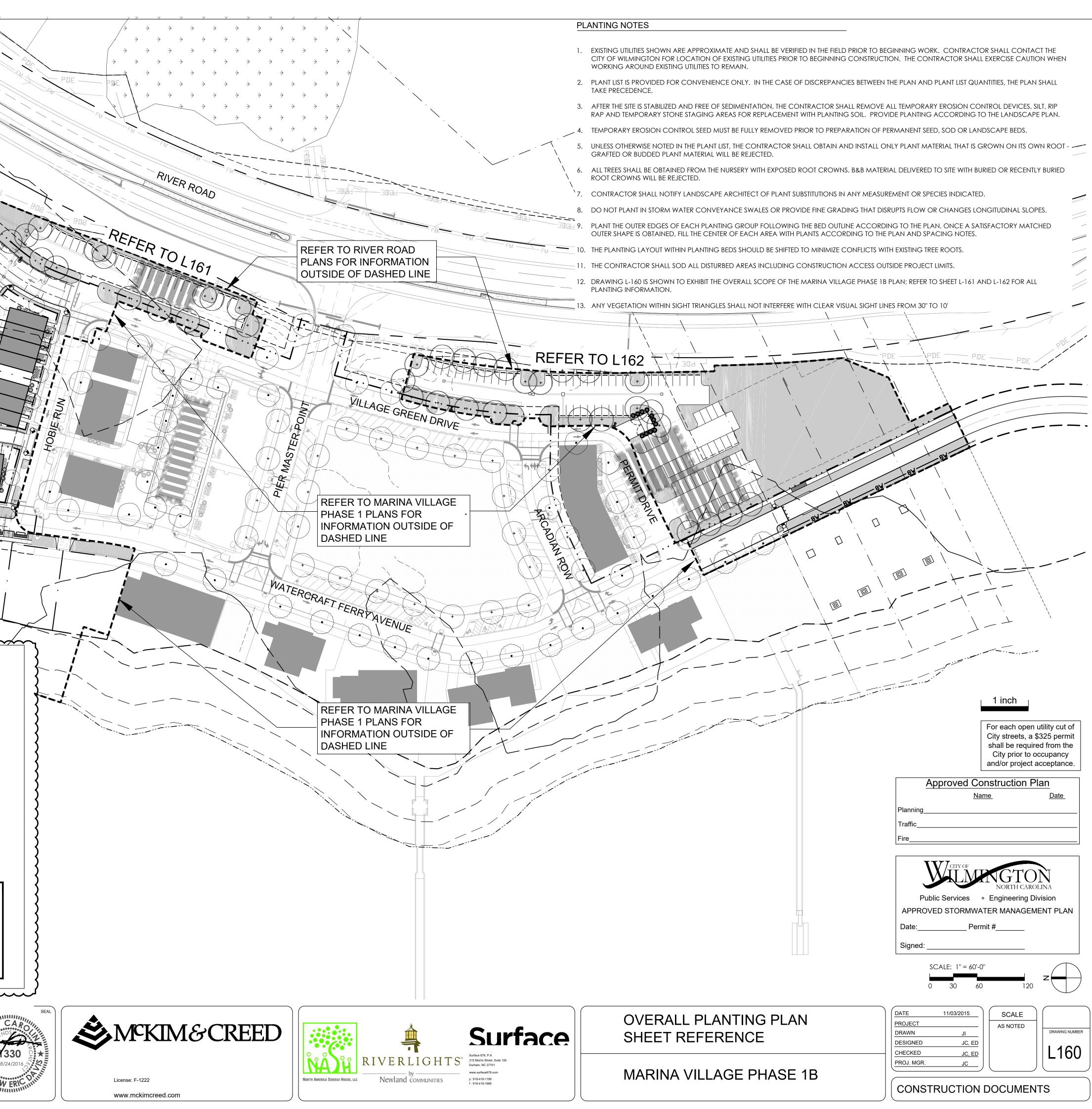
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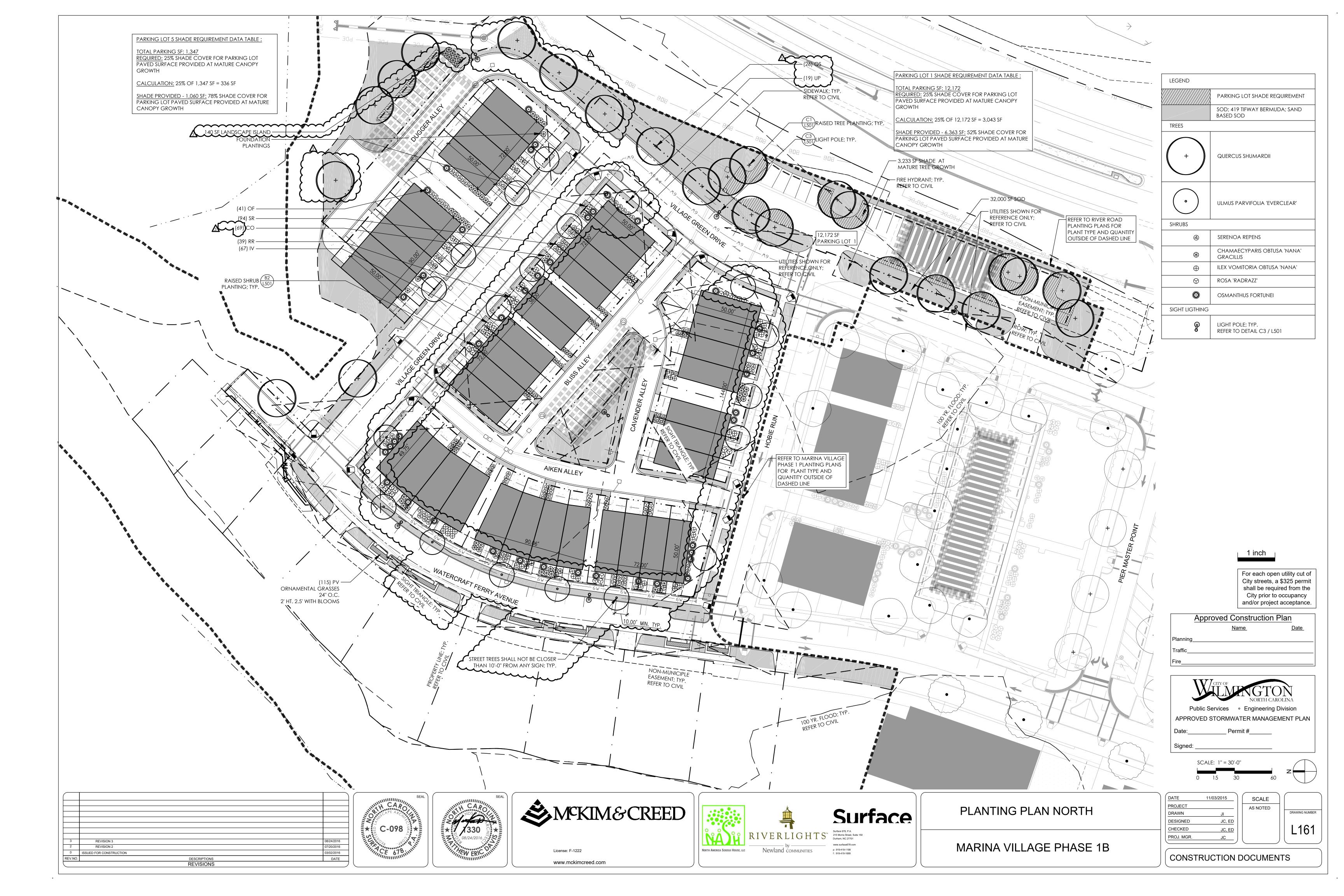
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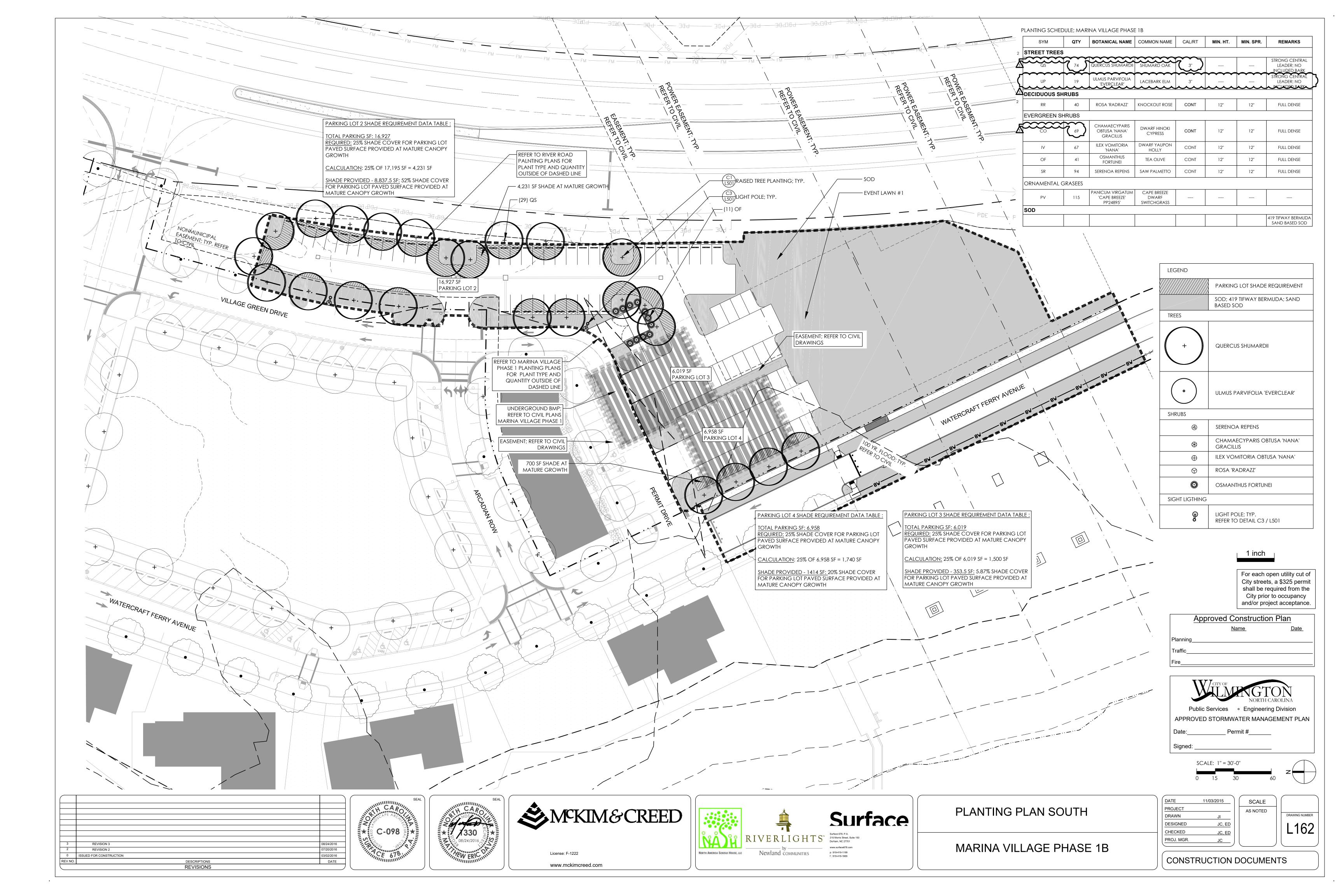


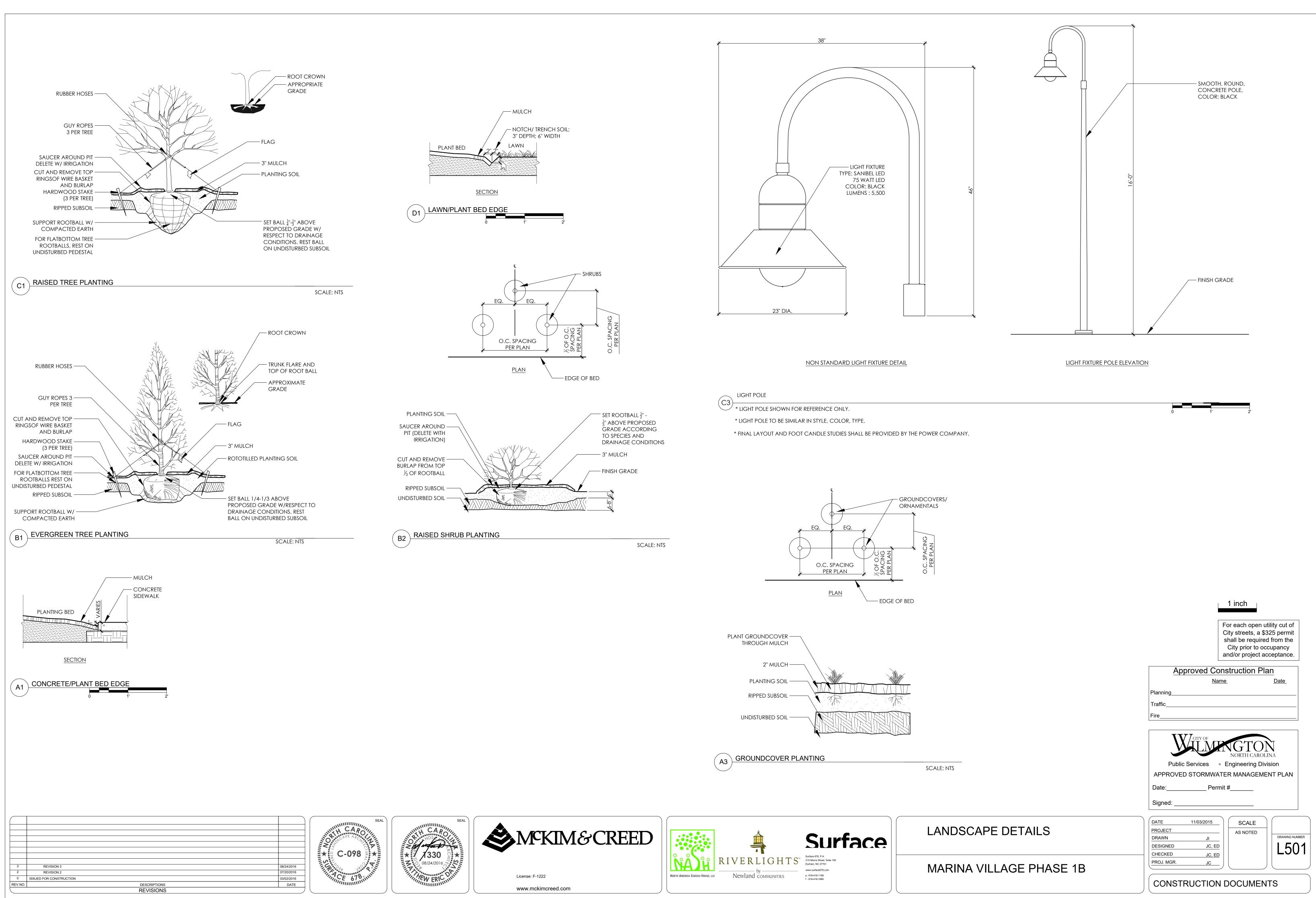


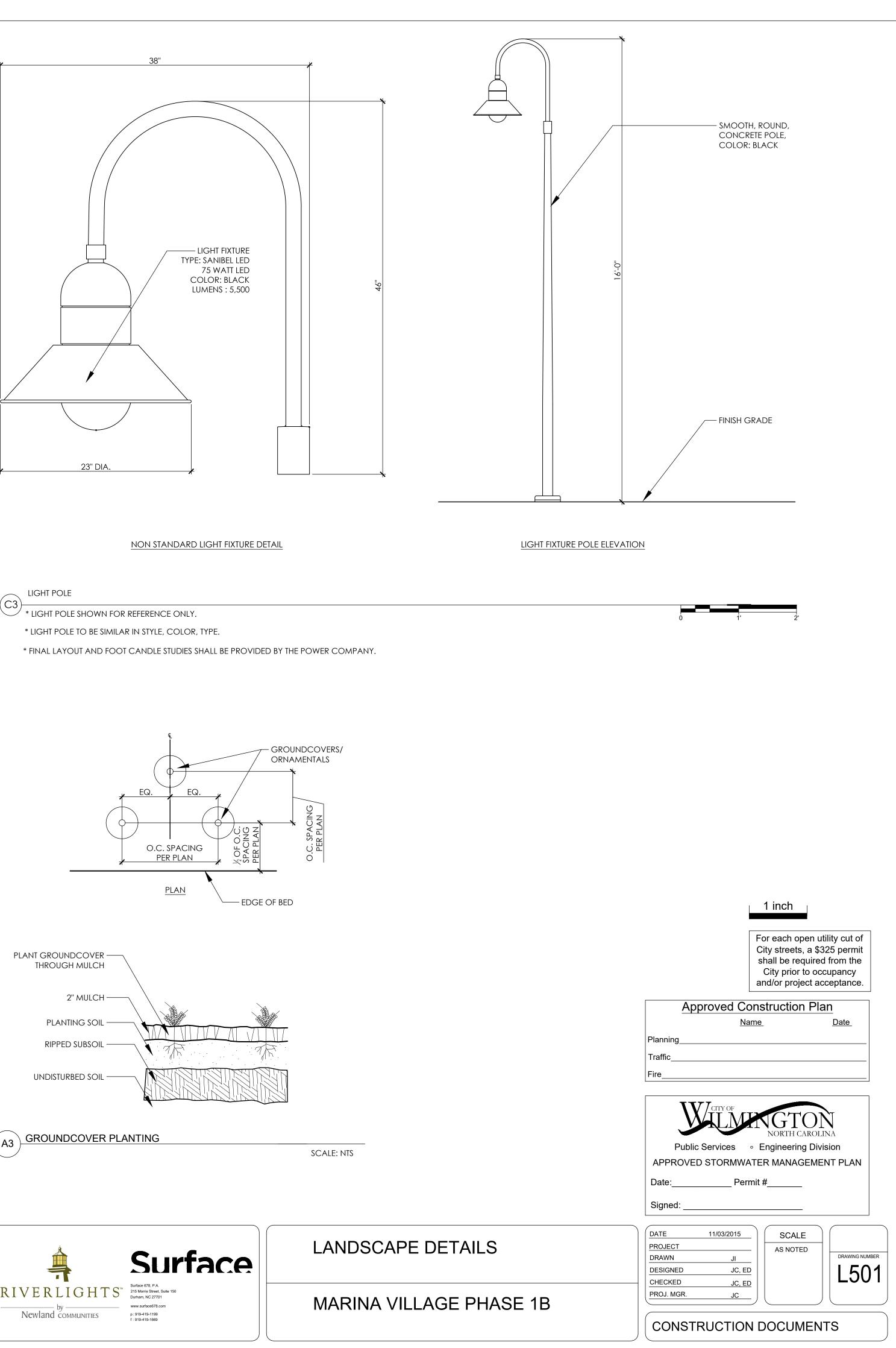
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		AIKEN ALLEY,
	PARKING LOT SHADE DATA TABLE (REFER TO PLAN FOR LOCATIONS):	
}	PARKING LOT 1 (REFER TO L161): TOTAL PARKING SF: 12,172	PARKING LOT 4 (REFER TO L162): TOTAL PARKING SF: 6,958 REQUIRED: 25% SHADE COVER FOR PARKING LOT PAVED SURFACE
{	REQUIRED: 25% SHADE COVER FOR PARKING LOT PAVED SURFACE PROVIDED AT MATURE CANOPY GROWTH CALCULATION: 25% OF 12,172 SF = 3,043 SF	PROVIDED AT MATURE CANOPY GROWTH CALCULATION: 25% OF 6,958 SF = 1,740 SF
{	SHADE PROVIDED: 6,363 SF: 52% SHADE COVER FOR PARKING LOT PAVED SURFACE PROVIDED AT MATURE CANOPY GROWTH	SHADE PROVIDED: 1414 SF: 20% SHADE COVER FOR PARKING LOT PAVED SURFACE PROVIDED AT MATURE CANOPY GROWTH
}	PARKING LOT 2 (REFER TO L162):	PARKING LOT 5 (REFER TO L161): TOTAL PARKING SF: 1,347
{	TOTAL PARKING SF: 16,927 REQUIRED: 25% SHADE COVER FOR PARKING LOT PAVED SURFACE PROVIDED AT MATURE CANOPY GROWTH	REQUIRED: 25% SHADE COVER FOR PARKING LOT PAVED SURFACE PROVIDED AT MATURE CANOPY GROWTH CALCULATION: 25% OF 1,347 SF = 336 SF
	CALCULATION: 25% OF 17,195 SF = 4,231 SF SHADE PROVIDED: 8,837.5 SF: 52% SHADE COVER FOR PARKING LOT PAVED SURFACE PROVIDED AT MATURE CANOPY GROWTH	SHADE PROVIDED: 1,060 SF: 78% SHADE COVER FOR PARKING LOT PAVED SURFACE PROVIDED AT MATURE CANOPY GROWTH
}	PARKING LOT 3 (REFER TO L162):	ENTIRE SITE PARKING CALCULATIONS:
{	TOTAL PARKING SF: 6,019 REQUIRED: 25% SHADE COVER FOR PARKING LOT PAVED SURFACE PROVIDED AT MATURE CANOPY GROWTH	TOTAL PARKING LOT SF (LOTS 1-5): 43,423 SF REQUIRED: 25% SHADE COVER FOR PARKING LOT PAVED
{	CALCULATION: 25% OF 6,019 SF = 1,500 SF SHADE PROVIDED: 353.5 SF: 5.87% SHADE COVER FOR PARKING LOT	SURFACE PROVIDED AT MATURE CANOPY GROWTH SHADE PROVIDED: 18,028 SF: 41.5% SHADE COVER FOR PARKING LOT PAVED SURFACE PROVIDED AT MATURE CANOPY GROWTH
{	PAVED SURFACE PROVIDED AT MATURE CANOPY GROWTH	LOI PAVED SURFACE PROVIDED AT MATURE CANOPY GROWTH
3 2 0	REVISION 3 REVISION 2 ISSUED FOR CONSTRUCTION	08/24/2016 07/20/2016 03/02/2016
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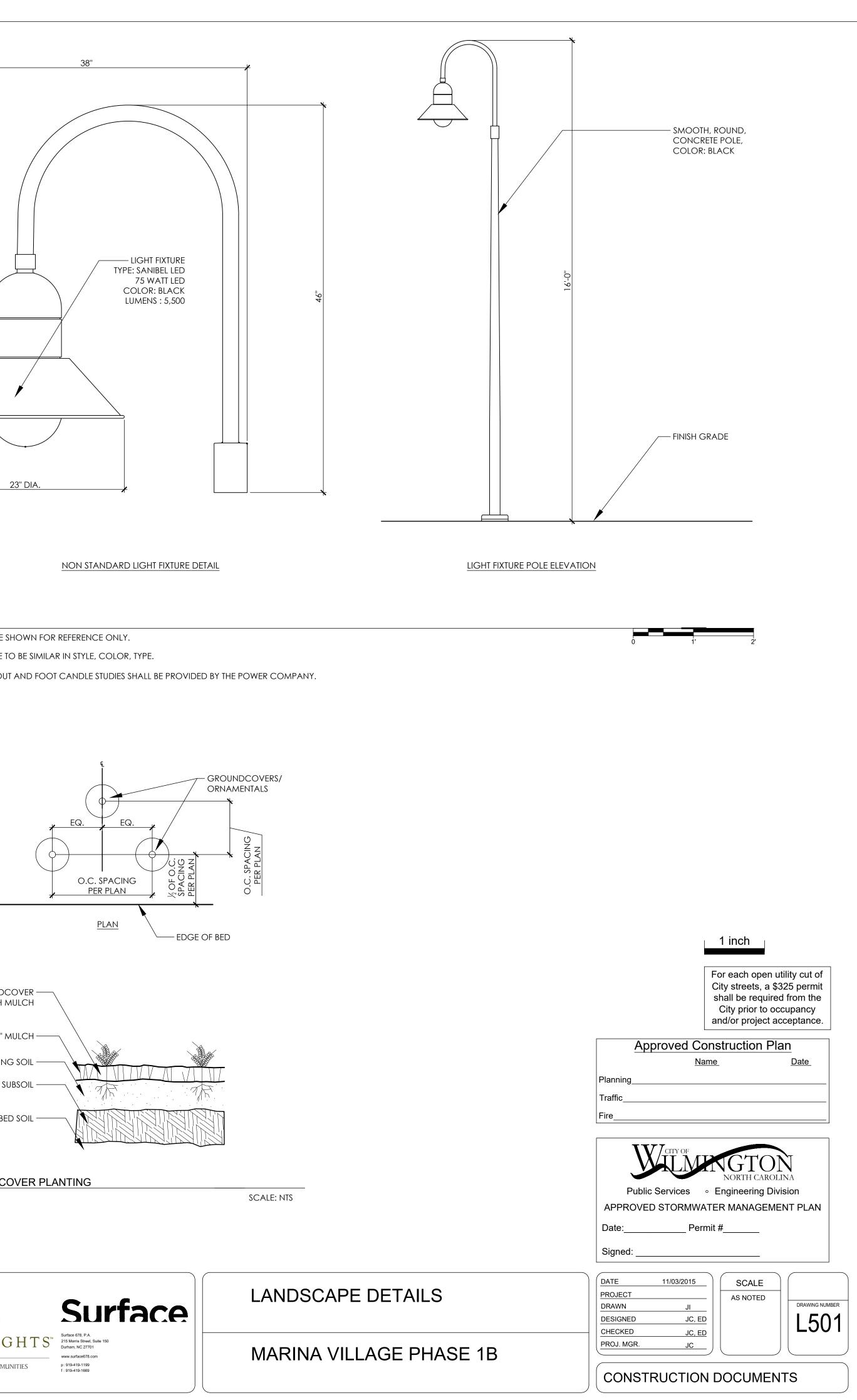


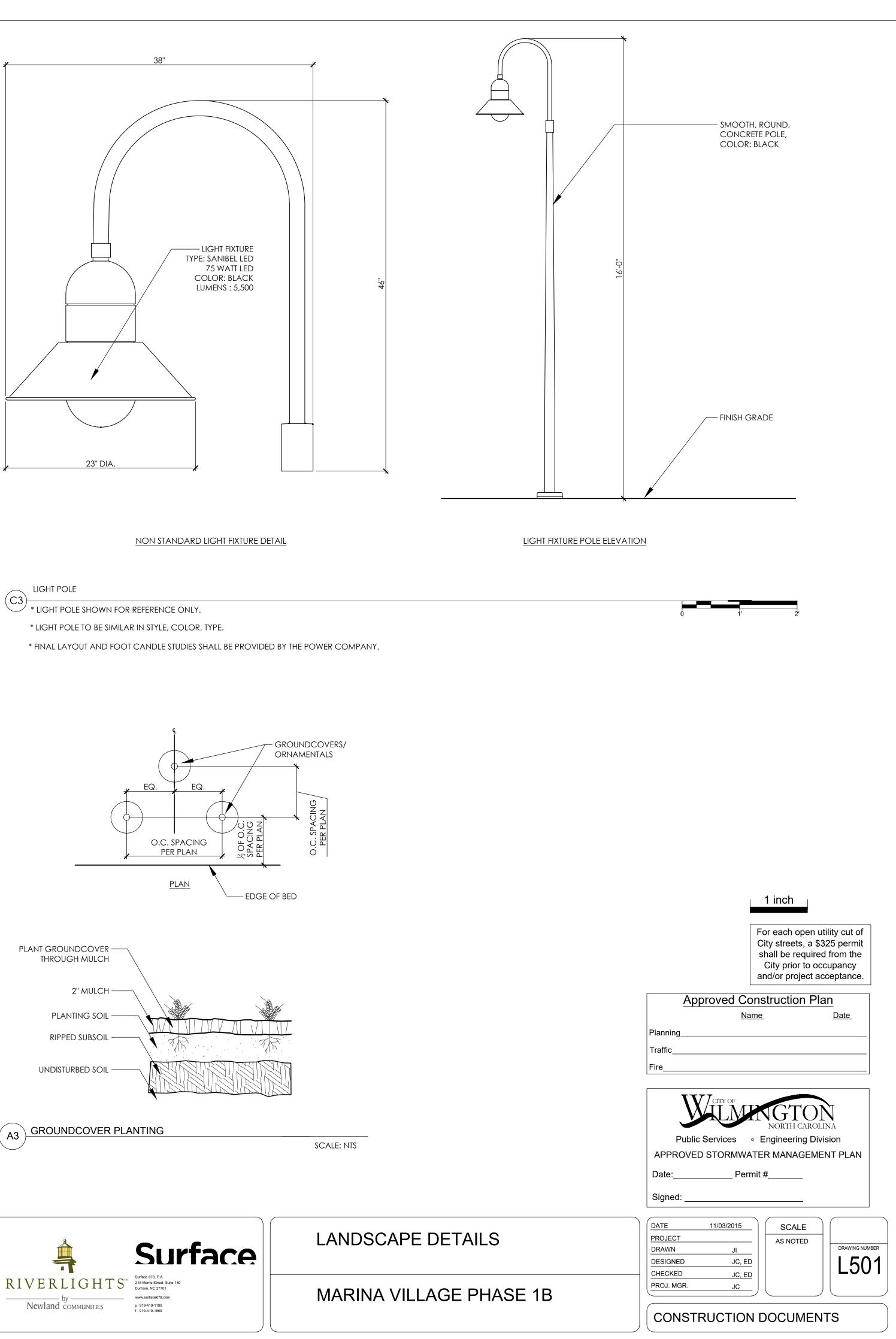


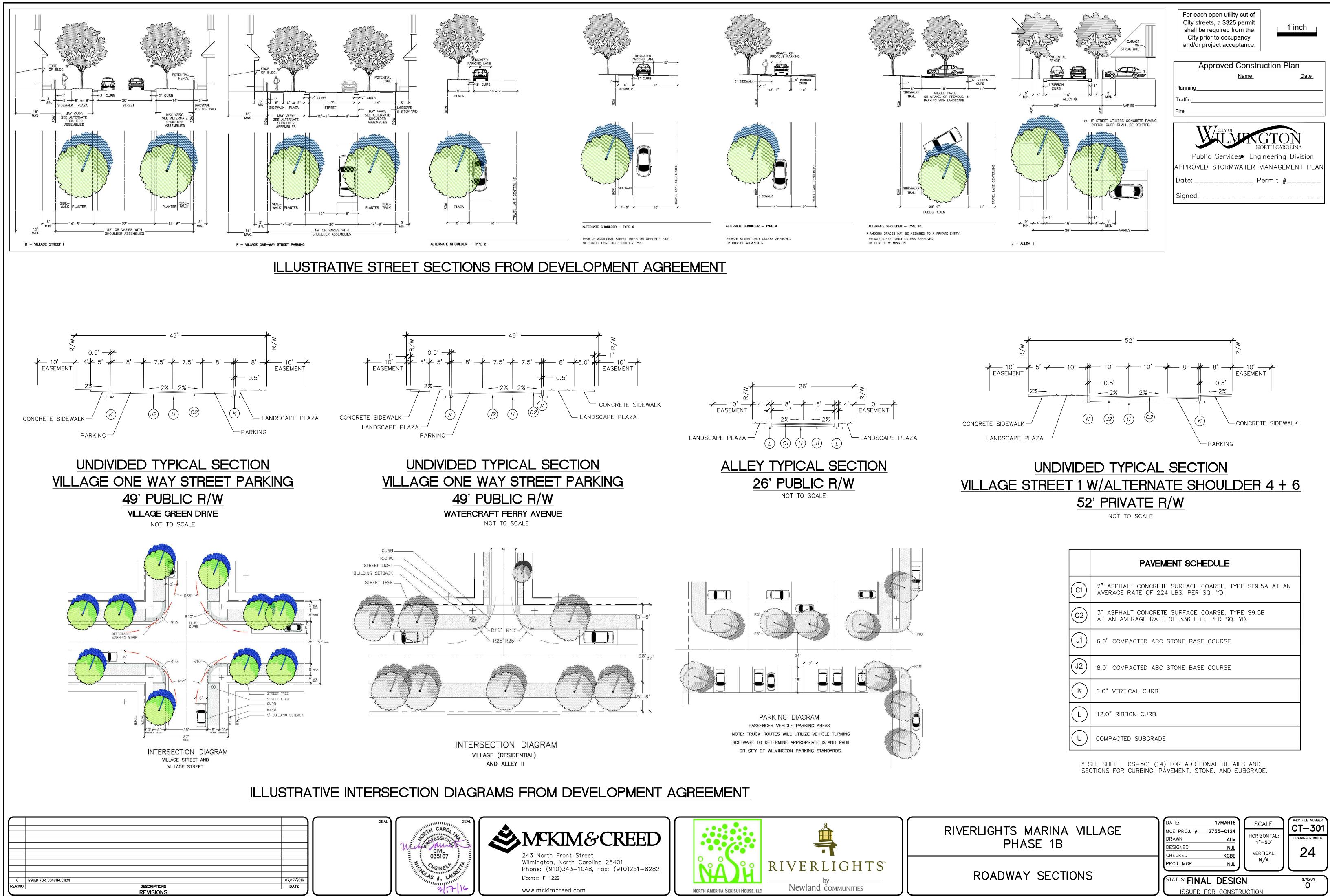


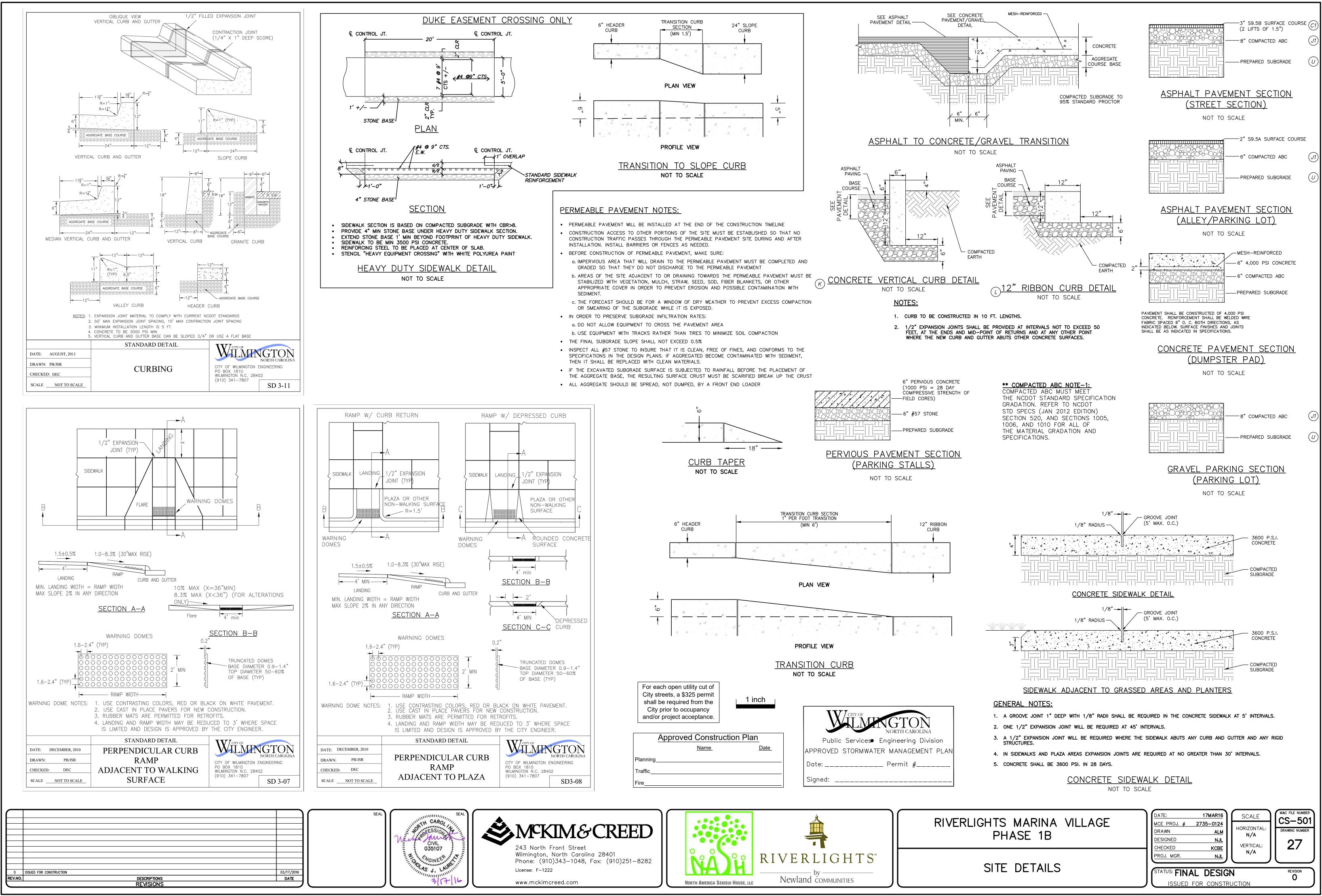


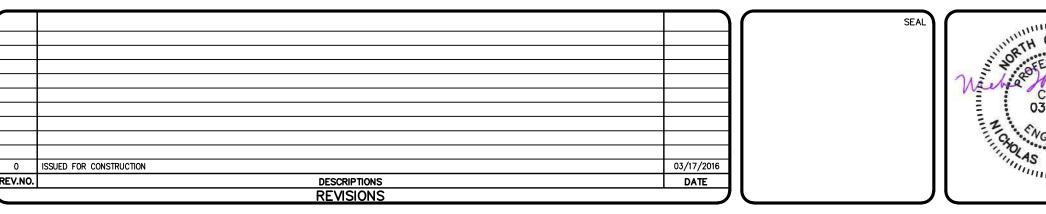




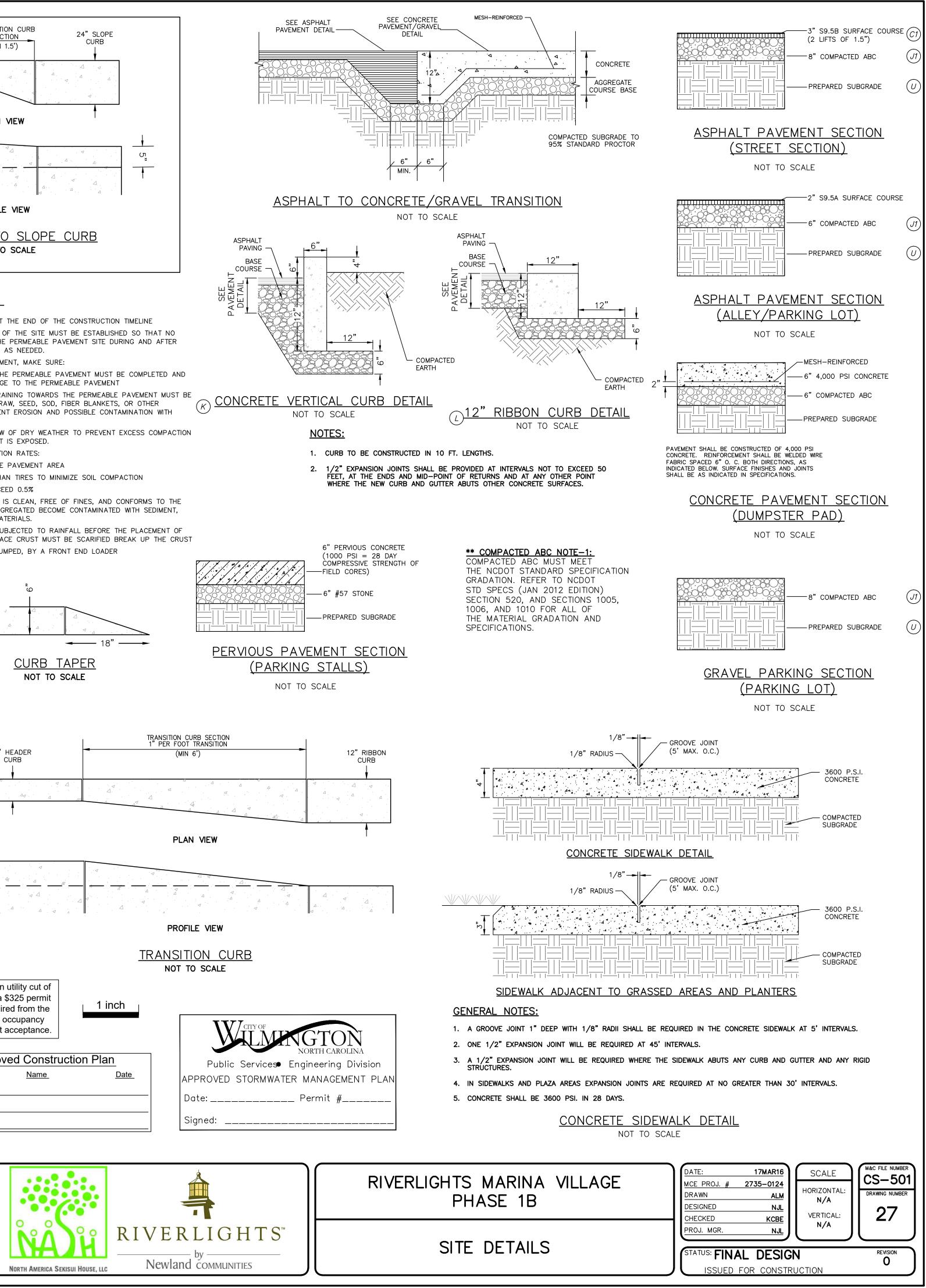


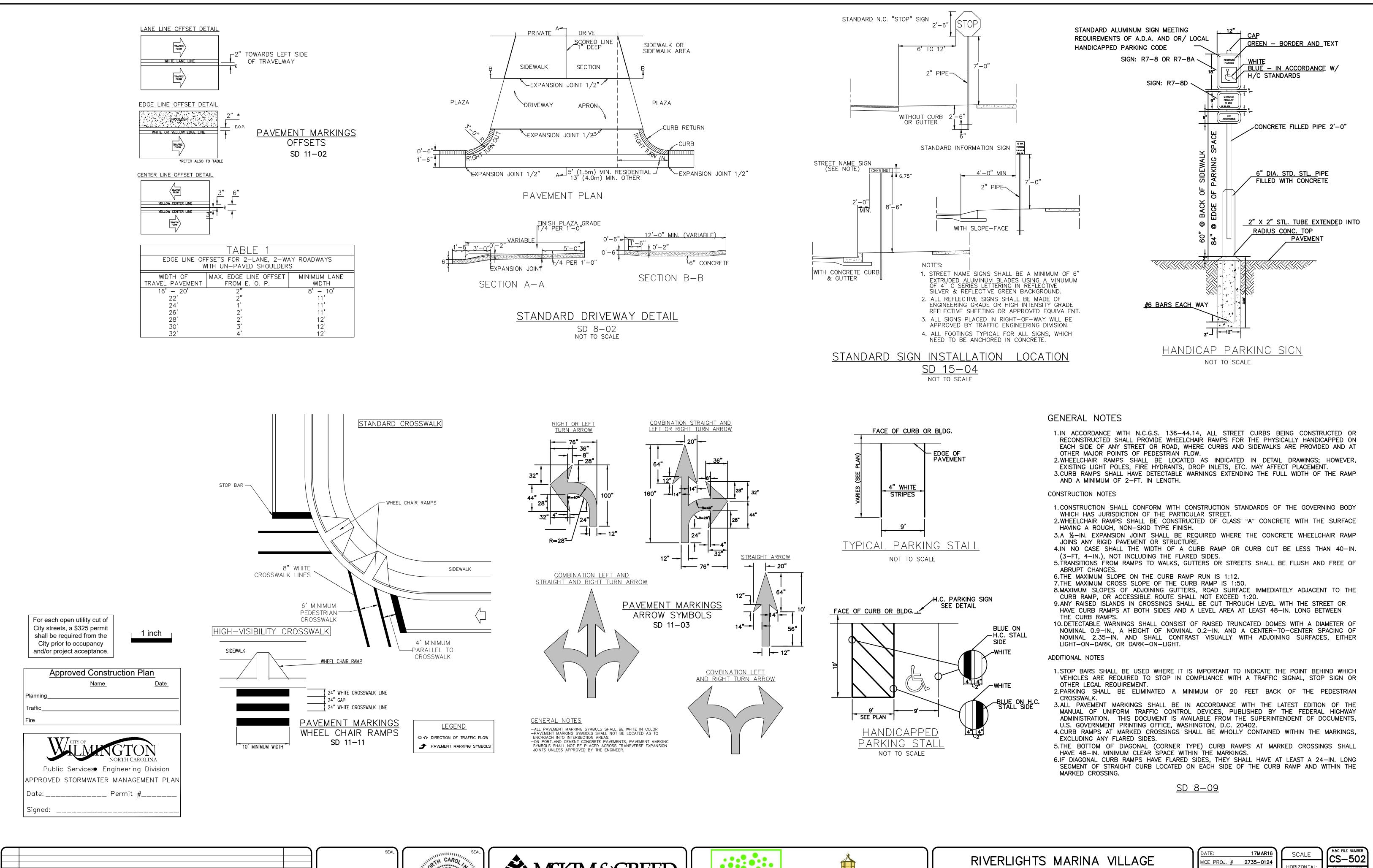












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DESCRIPTIONS



03/17/2016

DATE



HORIZONTAI DRAWN RAWING NUMB PHASE 1B N/A DESIGNED 28 VERTICAL: CHECKED KCBE N/A PROJ. MGR. N.II SITE DETAILS STATUS: FINAL DESIGN REVISION 0 ISSUED FOR CONSTRUCTION