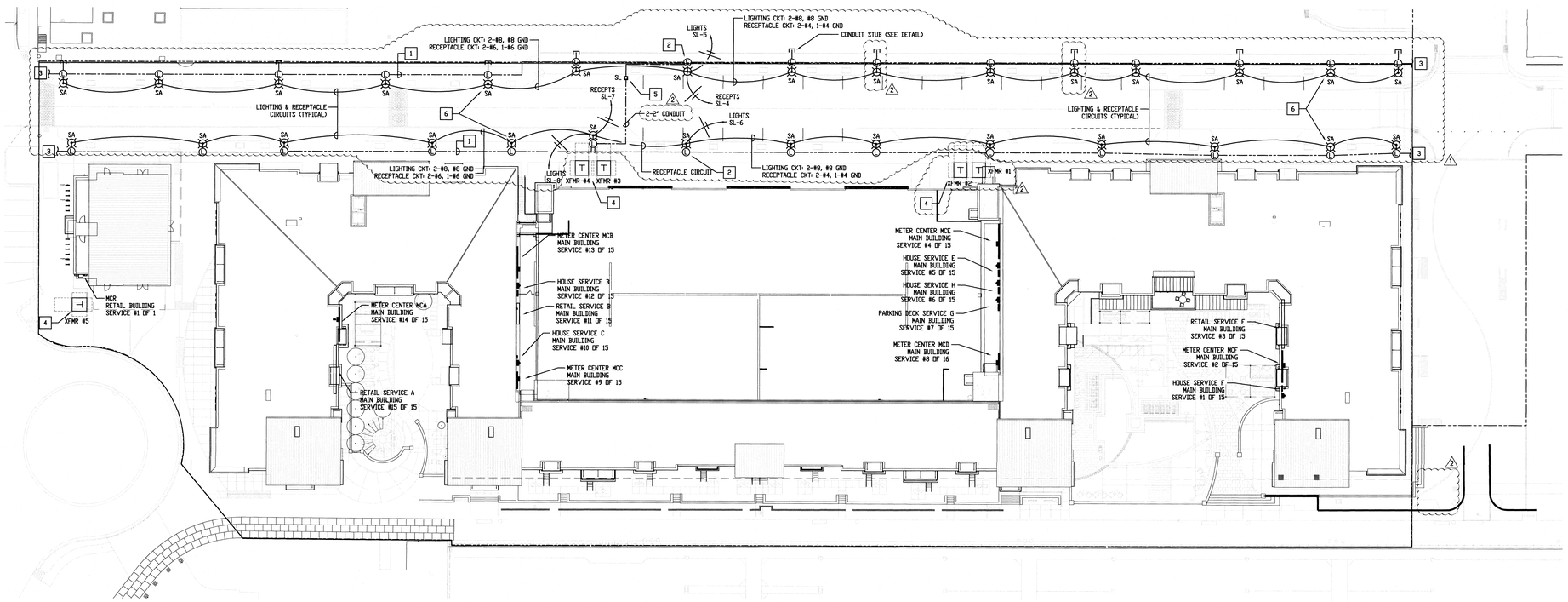
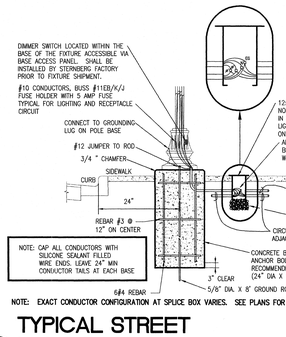


1 SITE PLAN - ELECTRICAL
SCALE: 1" = 30'-0"



NOTE: EXACT CONDUCTOR CONFIGURATION AT SPLICE BOX VARIES. SEE PLANS FOR CONDUCTOR INFORMATION

2 TYPICAL STREET LAMP BASE AND ELECTRICAL DETAIL
SCALE: NONE

Panel: SL — 60/2 MAIN BREAKER — Poles: 12 — Phase: 1 — Voltage: 120/240 — Wires: 3

LOAD SERVED	KVA	BRKR.		ø	BRKR.	KVA	LOAD SERVED
MAIN	-	60/2	1	A			
	-		2	B			
PHOTOCELL	0.0	15/1	3	A			
RECEPTACLES	2.7	30/2	4	B			
LIGHTING	0.9		5	A			
LIGHTING	0.5		6	B			
RECEPTACLES	2.5	30/3	7	A			
LIGHTING	0.4		8	B			
SPACE	-	SPACE	9	A			
SPACE	-	SPACE	10	B			
SPACE	-	SPACE	11	A			
SPACE	-	SPACE	12	B			
				A			
				B			
				A			

Demand Load Summary:

Lighting:	1.7 KVA	@ 125%	2.2 KVA	Phase A:	3.6 KVA	30.4 Amps
Largest Motor:	KVA	@ 125%	KVA	Phase B:	3.7 KVA	31.1 Amps
Gen Receptacles:	5.2 KVA	@ 100%	5.2 KVA			
All Other:	KVA	@ 100%	KVA	Total Panel Load:	7.4 KVA	30.7 Amps

[X] GROUND BAR
[X] SEPARATE NEUTRAL BAR
[X] U.L. S.E. RATED
[X] PAD MOUNTED
[X] NEMA 3R
[ ] FEED THRU LUGS
[ ] EXISTING PANEL

1. ALL BREAKERS SHALL BE RATED AT 22,00 AIC.
2. PROVIDE BASE SUPPORT MOUNTED TO CONCRETE PAD.
3. ENCLOSURE SHALL HAVE INTEGRAL PHOTOCELL AND HAND/OFF/AUTO SWITCH. SEE DETAIL.

PANEL SCHEDULE NOTES:

1. VALUES FOR DEMAND LOADS INCLUDE ALL CODE FACTORS SUCH AS 125% FOR CONTINUOUS LOADS, 125% LARGEST MOTOR, ETC.
2. BREAKER SIZES SHOWN FOR NEW EQUIPMENT IN PANEL SCHEDULES ARE FOR REFERENCE ONLY. SEE EQUIPMENT CONNECTION SCHEDULE(S) FOR ADDITIONAL INFORMATION. WHERE BREAKER / FUSE SIZE BETWEEN SCHEDULES CONFLICT, THE EQUIPMENT CONNECTION SCHEDULE SHALL TAKE PRECEDENCE.
3. ALL PANEL DIRECTORIES SHALL BE COMPLETED IN ACCORDANCE WITH NEC 408.4.
4. CONTRACTOR SHALL PROVIDE MULTIPOLE BREAKERS IN LIEU OF ALL SINGLE POLE BREAKERS SHOWN WHEN MULTIWIRE BRANCH CIRCUITS ARE INSTALLED PER NEC 210.4(B).
5. PROVIDE ARC FLASH HAZARD WARNING LABELS AS REQUIRED ON ALL PANELS AFFECTED BY THIS WORK. COMPLY WITH NEC 110.16.
6. CONTRACTOR SHALL PROVIDE IDENTIFICATION FOR NEW FEEDERS AND ANY NEW BRANCH CIRCUITS PER NEC 200.6, 210.5, AND 215.12.
7. BREAKERS INDICATED AS (L) SHALL HAVE A BREAKER LOCK PROVIDED, I.E. 20/1(L) SHALL BE A 20 AMP SINGLE POLE BREAKER WITH LOCK. BREAKER LOCK SHALL BE ACCESSIBLE FROM OUTSIDE OF PANEL AND SHALL NOT REQUIRE THE REMOVAL OF PANEL COVER IN ORDER TO RESET THE BREAKER.
8. WHERE CIRCUIT BREAKERS OR FUSES ARE NOTED TO BE SERIES RATED, THE EQUIPMENT SHALL BE MARKED PER NEC 110.22 AS APPLICABLE. FOR TESTED SERIES COMBINATION SYSTEMS, THE MARKING SHALL STATE THE FOLLOWING "CAUTION – SERIES COMBINATION SYSTEM RATED _____ AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED." FOR ENGINEERED SERIES COMBINATION SYSTEMS, SEE NEC 110.22(B) FOR MARKING LANGUAGE.
9. ANY CIRCUIT BREAKERS USED FOR SWITCHING LIGHTS SHALL BE LISTED FOR SWITCHING AND MARKED PER NEC 240.83(D).
10. PER NEC 240.83(D), CIRCUIT BREAKERS USED AS SWITCHES FOR HIGH INTENSITY DISCHARGE LIGHTING SHALL BE LISTED AND MARKED "HID" AND CIRCUIT BREAKERS USED AS SWITCHES FOR FLUORESCENT LIGHTING SHALL BE LISTED AND MARKED "SWD" OR "HID".
11. BREAKERS INDICATED AS (G) SHALL HAVE GFCI PROTECTION PROVIDED. I.E. 20/1(G) SHALL BE A 20 AMP SINGLE POLE BREAKER WITH GFCI PROTECTION.

ELECTRICAL UNDERGROUND NOTES

1. COORDINATE ALL CONDUIT ROUTING AND OTHER UNDERGROUND INSTALLATIONS WITH UNDERGROUND UTILITIES, STRUCTURAL ELEMENTS, AND OTHER UNDERGROUND COMPONENTS PRIOR TO BEGINNING WORK.
2. EXACT TERMINATION LOCATIONS SHOULD BE COORDINATED WITH SPECIFIC REQUIREMENTS OF EQUIPMENT INDICATED AND SHOULD BE VERIFIED PRIOR TO ROUGH-IN.
3. CONTRACTOR SHALL FIELD COORDINATE EXACT ROUTE OF CONDUITS AND SHALL COMPLY WITH ALL REQUIREMENTS OF NEC, INCLUDING DEPTH AND NUMBER OF BENDS, ETC.
4. BANKS OF CONDUITS SHALL BE SPACED 2" EDGE TO EDGE. CONDUITS INSTALLED IN CONDUIT BANKS SHALL BE ARRANGED 7 1/2" O.C. AND SHALL BE INSTALLED IN STACKING HORIZONTAL ROWS OF NO MORE THAN 4 CONDUITS EACH.
5. CONTRACTOR SHALL LABEL EACH CONDUIT STUB TO FACILITATE FUTURE INSTALLATIONS. EACH CONDUIT SHALL HAVE A LABEL DESCRIBING THE SERVICE ORIGIN, VOLTAGE, INTENDED FUTURE USE ETC. AT EACH STUB UP LOCATION.
6. CONDUIT BANKS SHALL BE COVERED BY A MINIMUM 24" OF BACKFILL AND SHALL BE PROVIDED WITH MAGNETIC MARKING TAPES.
7. ALL SPARE CONDUITS SHALL BE PROVIDED WITH PULL WIRE AND SHALL BE PROVIDED WITH A THREADED CAP ON BOTH ENDS. BOTH ENDS OF SPARE CONDUIT SHALL BE SEALED TO PROTECT FROM WATER INTRUSION.

PLAN NOTES:

1. PROVIDE 1-2" CONDUIT W/ PULL WIRE BETWEEN LIGHT POLE PULL BOXES. COORDINATE REQUIREMENTS WITH CITY OF WILMINGTON. TYPICAL.
2. PROVIDE TRAFFIC RATED PULL BOX AT EACH LIGHT POLE AND 1-1" CONDUIT FROM BOX TO POLE. COORDINATE REQUIREMENTS WITH CITY OF WILMINGTON. CIRCUIT AND GROUND CONDUCTORS FROM PULL BOX TO POLE SHALL BE #10 AWG. TYPICAL.
3. EXTEND TO NEAREST EXISTING CITY OF WILMINGTON LIGHTING PULL BOX. COORDINATE REQUIREMENTS W/ CITY OF WILMINGTON.
4. PROPOSED POWER COMPANY TRANSFORMER LOCATION. COORDINATE EXACT LOCATION W/ POWER COMPANY, CIVIL, AND ARCHITECTURAL. SEE ELECTRICAL UNDERGROUND NOTES FOR REQUIREMENTS FOR SECONDARY CONDUCTOR BANKS.
5. PROVIDE STREET LIGHTING LOAD CENTER WITH INTEGRAL METER AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH CITY OF WILMINGTON AND POWER COMPANY.
6. LIGHT FIXTURE AND INTEGRAL RECEPTACLE SHALL BE FUSED AT POLE. SEE LAMP BASE DETAIL. TYPICAL.

NOTES

1. VERIFY AND COORDINATE ALL LIGHT FIXTURE LOCATIONS WITH SITE, ARCHITECTURAL, HARDSCAPE / LANDSCAPING, ETC. PRIOR TO BEGINNING WORK.
2. COORDINATE ALL CONDUIT ROUTINGS AND OTHER UNDERGROUND INSTALLATIONS WITH UNDERGROUND UTILITIES AND OTHER UNDERGROUND COMPONENTS PRIOR TO BEGINNING WORK.
3. ALL FIRE ALARM CIRCUITS RUN EXTERIOR TO BUILDING SHALL BE PROVIDED WITH SURGE SUPPRESSION.

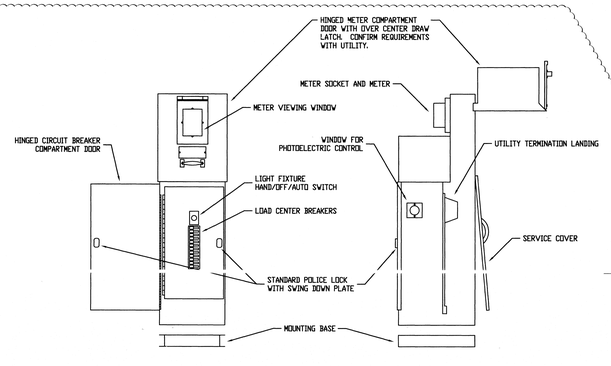
ELECTRICAL SITE LEGEND

- POLE FIXTURE - SEE FIXTURE SCHEDULE
- POLE FIXTURE - SEE FIXTURE SCHEDULE
- BLDG. FIXTURE - SEE FIXTURE SCHEDULE
- 2-#10, 1" PVC & 1-#10 GND ADJUST PER VOLTAGE DROP SCHEDULE AS REQ'D.
- 3-#10, 1" PVC & 1-#10 GND ADJUST PER VOLTAGE DROP SCHEDULE AS REQ'D.
- T — PAD MNT. TRANSFORMER BY POWER CO. COORDINATE EXACT LOCATION.

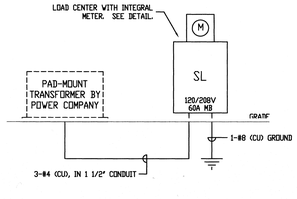
RISER NOTES

1. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY ACCOUNT HOLDER AND POWER COMPANY TO CONFIRM THE VERIFIED AVAILABLE FAULT CURRENT AND SERVICE ENTRANCE CONDUCTOR LENGTH. THIS INFORMATION SHALL BE SUBMITTED TO ENGINEER AS PART OF THE GEAR SUBMITTAL, PRIOR TO BEGINNING WORK.
2. CONTRACTOR SHALL MEET ALL REQUIREMENTS OF NEC 250.50 FOR SERVICE GROUND. CONNECT TO STRUCTURAL STEEL AND METAL WATER PIPING WITHIN 5' OF ENTERING BUILDING. SEE SERVICE GROUND DETAIL FOR MORE INFORMATION.
3. SERVICE DISCONNECTS SHALL BE LABELED ON SITE AS SERVICE DISCONNECT PER NEC 230.70(B).
4. PER NEC 110.22, WHERE CIRCUIT BREAKERS OR FUSES ARE APPLIED IN COMPLIANCE WITH THE SERIES COMBINATION RATINGS MARKED ON THE EQUIPMENT BY THE MANUFACTURER, THE FOLLOWING SHALL BE INSTALLED AT THE SERVICE EQUIPMENT. THE EQUIPMENT HAS BEEN APPLIED WITH A SERIES COMBINATION RATING. THE MARKING SHALL BE READILY VISIBLE AND STATE THE FOLLOWING "CAUTION – SERIES COMBINATION SYSTEM RATED ____ AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED."
5. PER NEC 110.24, THE SERVICE EQUIPMENT ENCLOSURE(S) SHALL BE LEGIBLY MARKED IN THE FIELD TO INDICATE THE AVAILABLE FAULT CURRENT PRIOR TO FINAL INSPECTION. THE ELECTRICAL CONTRACTOR SHALL OBTAIN, FROM THE POWER COMPANY, THE ACTUAL AVAILABLE FAULT CURRENT AT THE POINT OF DELIVERY. THE CONTRACTOR SHALL CONTACT THE ENGINEER WITH THIS VALUE AND THE VERIFIED LENGTH OF CONDUCTORS RUN FROM THE POINT OF DELIVERY TO THE SERVICE ENCLOSURE FOR CALCULATION OF THE AVAILABLE FAULT CURRENT. THE RESULTING CALCULATED VALUE SHALL BE MARKED ON THE EXTERIOR OF THE SERVICE ENCLOSURE ON AN ENGRAVED PLACARD THAT SHALL READ AS FOLLOWS:

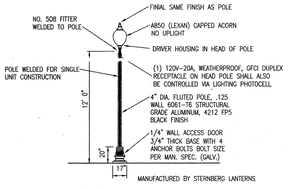
"AVAIL. FAULT CURRENT: _____,
DATE CALCULATED: _____."



4 STREET LIGHTING SERVICE CABINET DETAIL
SCALE: NONE



5 STREET LIGHTING ELECTRICAL RISER DIAGRAM
SCALE: NONE



NOTE:
CONTRACTOR SHALL COORDINATE FIXTURE POLE, FITTERS, CAPS, SIZES, AND OTHER ACCESSORIES MATCH THE CITY STANDARD FIXTURE.

3 TYPICAL STREET LAMP
SCALE: NONE

JDAVIS
519 South Wilmington Street | Raleigh, NC 27601 | tel 919.835.1500
1519 Walnut St., Suite 1300 | Philadelphia, PA 19102 | tel 215.545.0721

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Dewitt Carolinas
Pier 33
901 Nutt Street
Wilmington, NC 28401

NORTH CAROLINA PROFESSIONAL SEAL 36378 ENGINEER JAMES R. WEAVER, III
12/14/17

		DATE
PROJECT:	14007	
ISSUE:	50% CD	08-07-2017
	PERMIT SET	09-20-2017

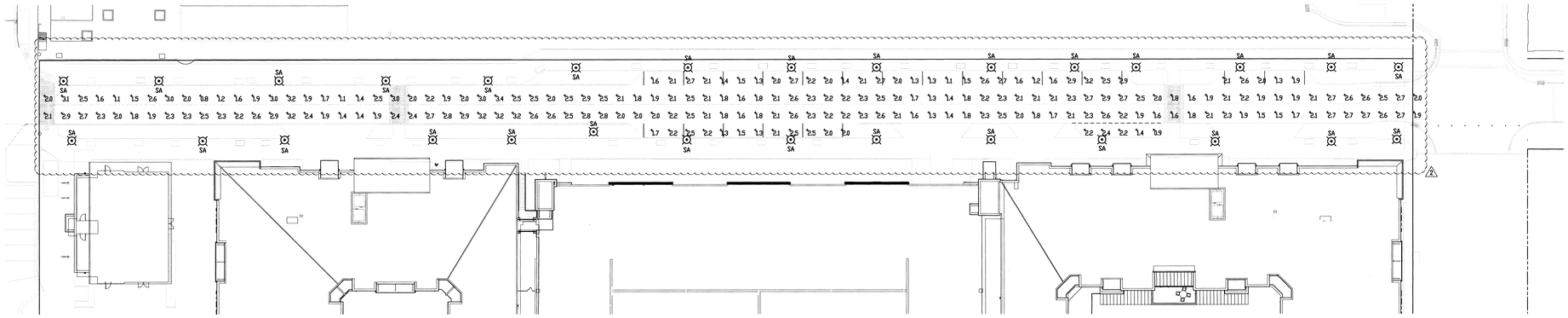
REVISIONS:

1	BLDG DEPT COMMENTS	11/03/2017
2	CITY OWNTS/UTIL COORD.	12/14/2017

CONTENT: SITE PLAN - ELECTRICAL

E1.00

THESE DRAWINGS WILL BE AT THE SCALE INDICATED WHEN PLOTTED AT 30" X 42"



1 NUTT STREET PHOTOMETRICS
SCALE: 1" = 30'-0"

GENERAL NOTES AND REQUIREMENTS.

1. WORKMANSHIP SHALL CONFORM TO NECA PUBLICATION "STANDARDS OF INSTALLATION."
2. INSTALLATION SHALL COMPLY WITH NATIONAL ELECTRICAL CODE, STATE BUILDING CODE, AND ALL REQUIREMENTS OF THE LOCAL INSPECTOR (FURNISH INSPECTION CERTIFICATE). ALL WORK SHALL BE BY LICENSED ELECTRICAL CONTRACTOR.
3. ALL EQUIPMENT CONNECTED TO OR ASSOCIATED WITH THE ELECTRICAL SYSTEMS OR OTHERWISE INCLUDED IN THE SCOPE OF WORK SHALL BE LISTED AND LABELED BY A THIRD PARTY ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
4. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THE PROJECT, PRIOR TO INSTALLATION OF ELEC. EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND TO ALLOW FOR OPTIMUM MAINTENANCE AND WORKING SPACE.
5. SEE ELECTRICAL DRAWINGS FOR ALL RACEWAY REQUIREMENTS AND SPECIFICATIONS.
6. SEE ELECTRICAL DRAWINGS FOR ALL CONDUCTOR REQUIREMENTS AND SPECIFICATIONS.
7. ALL MOUNTING HEIGHTS ARE GIVEN TO THE BOTTOM OF THE DEVICE UNLESS NOTED OTHERWISE.
8. PROVIDE GROUNDING CONDUCTOR FOR ALL CIRCUITS PER N.E.C. AND BUILDING GROUND SHALL MEET ALL REQUIREMENTS OF NEC 250.
9. ALL WALL OUTLET BOXES, RECEPTACLES, SWITCHES, COVERPLATES, ETC. SHALL BY COMMERCIAL GRADE, STANDARD OR HEAVY DUTY EXCEPT AS SPECIFIED. VERIFY COLOR / MATERIALS FOR ALL DEVICES AND COVERPLATES PRIOR TO PURCHASE. PROVIDE LABEL FOR EACH DEVICE IDENTIFYING THE CIRCUIT SERVING THE DEVICE. VERIFY IF LABEL SHOULD BE ON INSIDE OUR OUTSIDE FACE OF COVERPLATE WITH OWNER/TENANT.
10. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY DISPOSING OF ALL WASTE MATERIALS, DEMO MATERIALS AND OTHER TRASH. THIS INCLUDES BUT IS NOT LIMITED TO PROPER DISPOSAL OF MERCURY CONTAINING LAMPS, RECYCLABLE MATERIALS ETC.
11. CONTRACTOR SHALL PROVIDE ENGINEER A MINIMUM OF 3 COPIES OF SHOP DRAWINGS FOR LIGHTS, SWITCHGEAR, PANELS, ETC.
12. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE W/ ALL OTHER TRADES REGARDING VOLTAGES, LOADS, CIRCUIT BREAKERS, ETC. PRIOR TO BEGINNING ANY WORK.
13. AS USED ON THESE DOCUMENTS, THE WORD "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL THE ITEM OR EQUIPMENT AND MAKE THE FINAL CONNECTION AS REQUIRED.
14. ALL UNDERGROUND RACEWAY ENTERING THE BUILDING, (I.E. THROUGH A FOUNDATION WALL OR THROUGH THE FLOOR) SHALL BE SEALED IN ACCORDANCE WITH NEC 225.27 AND 300.5(G). RACEWAY SEALS AND SEALANTS SHALL BE APPROVED AND LISTED FOR THE SPECIFIC APPLICATION AND MATERIALS.
15. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SEISMIC REQUIREMENTS.

LIGHT FIXTURE SCHEDULE

SYMBOL	LABEL	IMAGE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMP	NUMBER LAMPS/ HEAD	FILENAME	LUMENS PER HEAD	MAINT. FACTOR	WATTAGE	POLE HEIGHT
	SA		STERNBERG LIGHTING	#A650 OLD TOWN ACORN FIXTURE HEAD W/ XRLED-A650 LED KIT #12L-2STS-HGL14-G62 ON #42-42-FP4-GFI POLE.	LED POST TOP LIGHT ON 12' POLE W/ INTEGRAL GFI RECEPTACLE POLE SHALL BE INTERNALLY FUSED. SEE DETAILS	LED	1	XRLED-A650-12L4STS-HG-14LED	4,829	0.83	60	12 FT

NOTES:
1. ALL FIXTURES, BALLASTS, AND DRIVERS SHALL COMPLY WITH N.C. BUILDING CODE, 2012 NORTH CAROLINA ENERGY CONSERVATION CODE AND SHALL BE UL LISTED.
2. VERIFY FIXTURE AND POLE FINISH/COLOR PRIOR TO ORDERING.
3. ALL NEW, RELOCATED, OR RESATIONED FIXTURES THAT UTILIZE BALLASTS OR DRIVERS SHALL BE PROVIDED WITH A LUMINAIRE DISCONNECT WHERE REQUIRED PER NEC SECTION 410.130(G). USE IDEAL POWERPLUG OR EQUAL INTERNAL TO FIXTURE.
4. PROVIDE THE PROPER LAMP(S) FOR EACH FIXTURE, AS RECOMMENDED BY THE FIXTURE MANUFACTURER AND FIXTURE SCHEDULE.
5. POLES SHALL HAVE APPROPRIATE EPA RATING PER GEOGRAPHIC LOCATION AND NUMBER OF HEADS TO BE INSTALLED.
6. ALL LIGHT POLES ARE INTENDED TO BE INSTALLED ON POLE BASES AS INDICATED. POLE HEIGHT INDICATED IN SCHEDULE IS HEIGHT OF FIXTURE HEAD ABOVE TOP OF BASE.

STATISTICS

DESCRIPTION	SYMBOL	AVG	MAX	MIN	MAX/MIN	AVG/MIN
NUTT STREET	+	2.1 fc	3.4 fc	0.8 fc	4.3:1	2.6:1

2

NOTES

1. VERIFY AND COORDINATE ALL LIGHT FIXTURE LOCATIONS WITH SITE, ARCHITECTURAL, HARDSCAPE / LANDSCAPING, ETC. PRIOR TO BEGINNING WORK.
2. COORDINATE ALL CONDUIT ROUTINGS AND OTHER UNDERGROUND INSTALLATIONS WITH UNDERGROUND UTILITIES AND OTHER UNDERGROUND COMPONENTS PRIOR TO BEGINNING WORK.
3. CONTRACTOR SHALL ENSURE THAT THE POLES MEET ALL NORTH CAROLINA & LOCAL AHJ CODES WITH REGARDS TO EPA RATINGS, BURIAL DEPTHS, POLE REQUIREMENTS, ETC. PRIOR TO BEGINNING WORK.

PHOTMETRIC LEGEND

- POLE FIXTURE - SEE FIXTURE SCHEDULE
- POLE FIXTURE - SEE FIXTURE SCHEDULE
- BLDG. FIXTURE - SEE FIXTURE SCHEDULE

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NC LICENSE #C-1958

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901 Nutt Street
Wilmington, NC 28401

NORTH CAROLINA PROFESSIONAL SEAL 36378 ENGINEER WILLIAM B. BLACK, JR.
12/14/17

		DATE
PROJECT:	14007	
ISSUE:	TRC RESUBMITTAL	08-17-2017

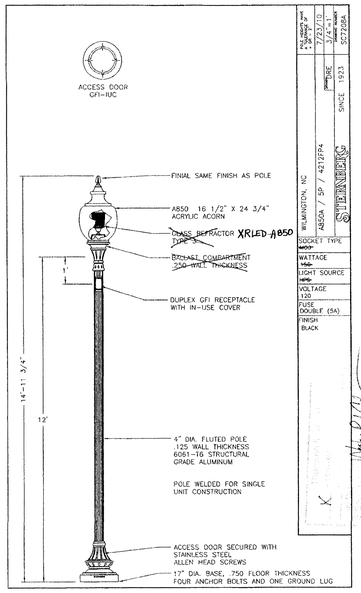
REVISIONS:

2	QTY QMNTS/UTIL COORD.	12/14/2017

CONTENT: SITE PLAN - PHOTOMETRICS

EP1.01

THESE DRAWINGS WILL BE AT THE SCALE INDICATED WHEN PLOTTED AT 30" X 42"



XRLED-A850

POST-TOP LED CONVERSION KIT FOR A850 OLD TOWN ACORN

"EASY TO INSTALL"

The versatile XRLED-A850 conversion kit transforms existing Sternberg A850 acorns into energy-efficient luminaires at significantly reduced maintenance costs. The wide variety of lumen and distribution options makes this the industry's obvious choice when converting from conventional lamp sources to energy-efficient lighting; made by Sternberg Lighting for Sternberg Lighting.

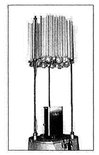
SternbergLighting
ESTABLISHED 1923 / EMPLOYEE OWNED

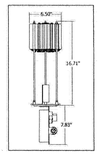
PROJECT:

TYPE:

HOW TO ORDER: XRLED-A850-12L50T4-MDL21

XRLED-A850					
SERIES	NO. OF LEDS	COLOR TEMP K	DISTRIBUTION	DRIVER	OPTIONS DRIVER HOUSINGS
LED UPGRADE KIT FOR A850 ACORN	9L	30(00) K	T2	MDL07	6A2*
	12L	40(00) K	T3	MDL14	6B2M*
		50(00) K	T4	MDL21	
			T5	MDH07	
				MDH14	
				MDH21	





Features & Specifications

Optical
- Utilizes high output, high brightness LEDs.
- Operates at -40°C (-40°F) to +50°C (122°F) ambient air temperature range.
- Typical CRI of 75, CCT 3000, 4500, and 5000K.
- LM-79 and LM-80 tests in accordance with IESNA standards.
- Lumen depreciation rated 50,000 hrs.
- RoHS Compliant.

Electrical
- 120-277 volt standard 347-480 volt option.
- Minimum drivers power factor: >0.9
- Electrical surge protection in accordance with IEEE/ANSI C62.41.2 guidelines (10KA).
- UL or ETL listed in U.S. and Canada.

Mechanical
- Anodized aluminum heatsink.
- Rugged cast aluminum fitter cap.
- Designed for Sternberg SP, ST, 508 and 980 fitters. Consult factory for limitations and other fitters.

Controls
- Supplied with dimmable driver (0-10 volts).

Warranty & Standards

XRLED Systems and Drivers - 5 years. All fixtures shall be free from all defects in materials and workmanship for a period of 5 years from the date of manufacture. The luminaire manufacturer shall warrant the XRLED retrofit system, during the stated warranty period, against failure defined as more than 10 percent of non-operating LEDs.

Drivers (0-10V dimming):

MDL07: 700mA, 120-277V

MDL14: 1400mA, 120-277V

MDL21: 2100mA, 120-277V

MDH07: 700mA, 347-480V

MDH14: 1400mA, 347-480V

MDH21: 2100mA, 347-480V

Options:

***6B2M:** Driver housing required for fitters manufactured between 1985 and 2004.

***6A2M:** Driver housing required for fitters manufactured 1985 and before.

Performance

LIGHT SOURCE	T2 DELIVERED LUMENS	EFFICACY (LPW)	T3 DELIVERED LUMENS	EFFICACY (LPW)	T4 DELIVERED LUMENS	EFFICACY (LPW)	T5 DELIVERED LUMENS	EFFICACY (LPW)	WATTAGE
09L50T_-MDL07	2005	95.5	1940	92.4	1920	91.4	2070	98.6	21
09L45T_-MDL07	2175	103.6	2105	100.2	2080	99.0	2240	106.7	21
09L30T_-MDL07	2340	111.4	2265	107.9	2240	106.7	2415	115.0	21
09L50T_-MDL14	3505	79.7	3400	76.4	3450	78.4	3520	80.0	44
09L45T_-MDL14	3800	86.4	3740	85.0	3740	85.0	3820	86.8	44
09L30T_-MDL14	4090	93.0	4025	91.5	4025	91.5	4115	93.5	44
12L50T_-MDL14	4570	77.5	4455	75.5	4390	74.4	4775	80.9	59
12L45T_-MDL14	4950	83.9	4825	81.8	4755	80.6	5175	87.7	59
12L30T_-MDL14	5330	90.3	5195	88.1	5125	86.9	5570	94.4	59
12L50T_-MDL21	6140	64.0	5985	62.3	5835	60.8	6320	65.8	96
12L45T_-MDL21	6650	69.3	6485	67.6	6320	65.8	6840	71.3	96
12L30T_-MDL21	7160	74.6	6985	72.8	6805	70.9	7370	76.8	96

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SCARLETO-A850 6/13 STERNBERG LIGHTING
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SternbergLighting
ESTABLISHED 1923 / EMPLOYEE OWNED

Ornamental Poles

4200 AUGUSTA SERIES — SPECIFICATIONS

GENERAL
The 12 ft tall* decorative post shall be aluminum, one-piece construction. The 17" diameter cast aluminum fluted base shall be constructed with a 4" inch diameter aluminum shaft. The model shall be Sternberg Lighting **#4200** or **#4200R** for candy cane poles. The pole shall be U.L. or E.T.L. listed in U.S. and Canada.

CONSTRUCTION
The base shall be designed with twelve curved flutes and teardrop decorations and be made of heavy wall, 356 alloy cast aluminum. It shall have a 3/4" thick floor cast as an integral part of the base. The shall shall be double circumferentially welded internally and externally to the base for added strength.

____The **smooth tapered shaft** shall be made of ASTM 6063 extruded aluminum and tempered to a T6 condition.

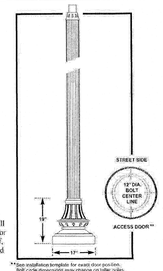
____The **smooth straight shaft** shall be made of ASTM 6063 extruded aluminum and tempered to a T6 condition.

____The **straight fluted shaft** shall be made of ASTM 6061 extruded aluminum and tempered to a T6 condition. It shall have a decorative fluted 3" O.D. tenon.

____The **tapered fluted shaft** shall be made of heavy wall, 356 alloy cast aluminum.

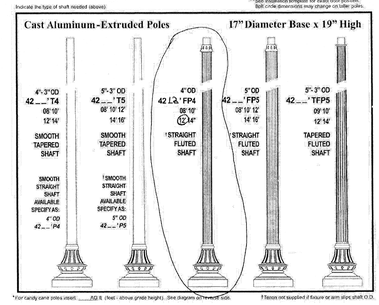
INSTALLATION
Four 1/2" diameter, hot-dipped galvanized "L" type anchor bolts shall be provided with the post for anchorage. A door shall be provided for wiring and anchor bolt access. It shall be secured with tamper proof, stainless steel hardware. Post will be provided with a grounding stud mounted on the base floor opposite the access door.

Indicate the type of shaft needed (above)



**See installation template for exact door position. Bolt circle dimensions may change on taller poles.

Cast Aluminum-Extruded Poles — **17" Diameter Base x 19" High**



* For candy cane poles insert ____/42 ft. (feet - above grade height). See diagram on reverse side.

† Tenons not supplied if fixture or arm slips shaft O.D.

11-13

SternbergLighting
ESTABLISHED 1923 / EMPLOYEE OWNED

4200 AUGUSTA SERIES — POSTS / OPTIONS / POST CAPS

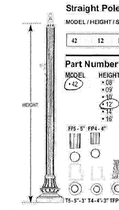
BUILDING A PART NUMBER

Straight Poles

MODEL	HEIGHT	SHAFT	POST CAP CENTER	OPTIONS	FINISH
42	12	FP4	BCC	FH	BK

Candy Cane Poles

MODEL	HEIGHT ABOVE GRADE	SHAFT	OPTIONS	FINISH
42	00	RT4 -- 12 AG		BK



Part Number Selections

MODEL: •42

HEIGHT: •09' •10' •12' •14' •16'

FP4 - 5' FP4 - 6'

SHAFT:
- •T4: 4'-3" Tapered Smooth*
- •T5: 5'-3" Tapered Smooth
- •P4: 4" Straight Smooth
- •P5: 5" Straight Smooth
- •FP4: 4" Straight Fluted*
- •FP5: 5" Straight Fluted
- •TFP5: 5'-3" Tapered Fluted**

* Maximum recommended height 14'
** Available in 9', 10', 12', 14

OPTIONS AVAILABLE
- •GFI •SBAR •PCD
- •GFB •DSPA •SH
- •FH •DHPA •SB
- •SBA •PAA78 •WHK
- •DBA
- •DB Direct Burial •HB Helix Burial

POST CENTER CAP (If Required)
- •BCC
- •FCC
- •SCC
- •TFCC
- •SSCC

STANDARD FINISHES*
- •BKT Black Textured
- •WHT White Textured
- •PGT Park Green Textured
- •ABZT Architectural Medium Bronze Textured
- •DBT Dark Bronze Textured

*Sheetfl Finishes are available upon request

CUSTOM FINISHES
- •DI Old Iron
- •RST Rust
- •WBR Weathered Bronze
- •CD Cedar
- •WBK Weathered Black
- •TT Two Tone

STERNBERG SELECT FINISHES
- •VG Verde Green
- •SI Swedish Iron
- •DWGT Old World Gray Textured

Part Number Selections

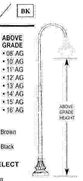
MODEL: •42

HEIGHT: •00

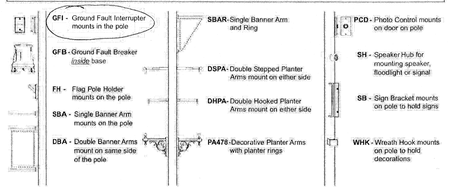
SHAFT:
- •RT4: 4'-3" Tapered Smooth
- •RT5: 5'-3" Tapered Smooth
- •RP4: 4" Straight Smooth
- •RP5: 5" Straight Smooth
- •RFP4: 4" Straight Fluted
- •RFP5: 5" Straight Fluted
- •RTFP5: 5'-3" Tapered Fluted**

** Available in 11, 12', 14, HL, AG

ABOVE GRADE:
- •08' AG
- •10' AG
- •11' AG
- •12' AG
- •13' AG
- •14' AG
- •15' AG
- •16' AG



OPTIONS AVAILABLE — See Accessories Section for more options and information



- **GFI** - Ground Fault Interrupter mounts in the pole
- **GFB** - Ground Fault Breaker inside base
- **FH** - Flag Pole Holder mounts on the pole
- **SBA** - Single Banner Arm mounts on the pole
- **DBA** - Double Banner Arms mount on same side of the pole
- **SBAR** - Single Banner Arm and Ring
- **DSPA** - Double Stepped Planter Arms mount on either side
- **DHPA** - Double Hooked Planter Arms mount on either side
- **PAA78** - Decorative Planter Arms with planter rings
- **PCD** - Photo Control mounts on door on pole
- **SH** - Speaker Hub for mounting speaker, floodlight or signal
- **SB** - Sign Bracket mounts on pole to hold signs
- **WHK** - Wreath Hook mounts on pole to hold decorations

POST CENTER CAPS (If Required)

- **BCC**- Ball Center Cap
- **FCC**- Finial Center Cap
- **SCC**- Spiked Center Cap
- **TFCC**- Tall Finial Center Cap
- **SSCC**- Side Spiked Center Cap

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11-13

SEE SHEET E1.00 FOR ADDITIONAL LIGHTING DETAILS

THESE DRAWINGS WILL BE AT THE SCALE INDICATED WHEN PLOTTED AT 30" X 42"

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919-870-9070 Fax: 870-4820

Dewitt Carolinas
Pier 33
901 Nutt Street
Wilmington, NC 28401

NORTH CAROLINA PROFESSIONAL SEAL 36378 ENGINEER JONATHAN P. BUCKNER
12/14/17

		DATE
PROJECT:	14007	
ISSUE:	TRC RESUBMITTAL	08-17-2017

REVISIONS:

1	BLDG DEPT COMMENTS	11/03/2017

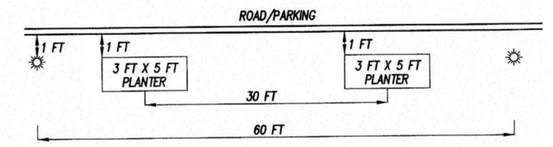
CONTENT: PHOTOMETRIC DETAILS

EP1.02

SEE A3.02 FOR ELEVATIONS SHOWING GREEN SCREEN AT PARKING DECK

PLANT LIST - ALL SHEETS								
QTY	SYM	BOTANICAL NAME	COMMON NAME	CALIPER	HEIGHT	SPREAD	ROOT	REMARKS
TREES								
9	ABA	Acer buergerianum 'Aeryn'	Aeryn Trident Maple	2.5" MIN	8'-10' MIN		15 Gallon	Code Req
44	SP	Sabal palmetto	Palmetto Palm		20'		B&B	Slick Trunk, Regen Top
SHRUBS								
65	PMM	Podocarpus macrophyllus var. maki	Southern yew		24"-30"	24"	7 Gallon	
30	TJ	Trachelospermum jasminoides	Confederate Jasmine		36"		3 Gallon	Min. 3 Vines
GROUND COVERS								
2067	LMB	Liriope muscari 'Big Blue'	Big Blue Liriope				1 Gallon	

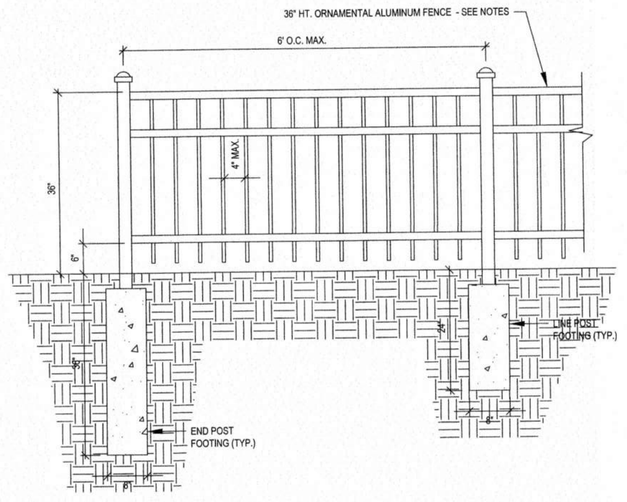
PARKING DECK SCREENING PLANTINGS 6
SCALE: NTS



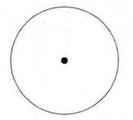
TYPICAL TREE AND LIGHT SPACING 6
SCALE: NTS

NOTES:

1. SHOP DRAWINGS ARE REQUIRED FOR ALL MATERIALS, CONNECTIONS, HARDWARE, LAYOUT, ETC.
2. MINIMUM REQUIREMENTS FOR FENCE COMPONENTS INCLUDE 2-1/2" SQ. POSTS, 1-1/8" SQ. RAILS, & 5/8" SQ. PICKETS.
3. ALL FASTENERS SHALL BE STAINLESS STEEL.
4. FINISH SHALL BE A ELECTROSTATICALLY APPLIED BAKED ON FLEXIBLE ACRYLIC FINISH OR A 2-COAT POWDER FINISH.

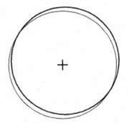


TYPICAL FENCING ALONG RIVERWALK - FROM PREVIOUSLY APPROVED TRC PLANS BY COASTAL SITE DESIGN, PC 5
SCALE: NTS



NYSSA SYLVATICA - BLACK GUM
BLACK GUM - SINGLE STEM, (15) QTY 3" CAL MIN, 10' HEIGHT

QV - QUERCUS VIRGINIANA CATHEDRAL
CATHEDRAL LIVE OAK, (5) QTY, 3" CAL. 10' MIN HEIGHT (5 FUTURE TO BE PLANTED AT CONDO)

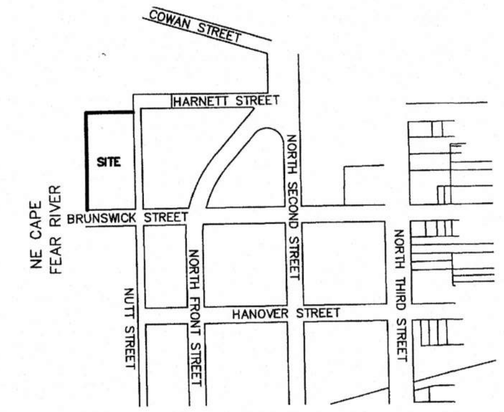


UP - ULMUS PARVIFOLIA 'BOSQUE',
BOSQUE LACEBARK ELM (25) QTY, 3" CAL MIN, 10' HGHT MIN.

EJ - ERIOBOTRYA JAPONICA,
LOQUAT, (10) QTY, 8' - 10' MIN HEIGHT

ABA - ACER BUERGERIANUM 'AERYN',
AERYN TRIDENT MAPLE, (9) QTY, 2.5" CAL MIN

CODE REQUIRED PLANT TABLE 4



VICIINITY MAP 3
SCALE: NTS

LANDSCAPE CALCULATIONS:

1. STREET TREE CALCULATIONS [SEC. 18-196(C)(12)] AS FOLLOWS:
   -ONE (1) STREET TREE FOR EVERY THIRTY (30) FEET OF PROPERTY FRONTAGE
   PROPOSED PROPERTY FRONTAGE (WEST SIDE) = 793 FT (MINUS 98 LF OF DRIVEWAYS); 793 – 98 = 695 FT
   ADJUSTED PROPERTY FRONTAGE = 695 FT; 695/ 30 = 23.16 OR 23 REQ'D STREET TREES.

   STREET TREES REQ'D: 23
   STREET TREES PROVIDED: 13 (SIGHT DISTANCE TRIANGLES PROHIBIT THE PLACEMENT OF STREET TREES ALONG PROPOSED PROPERTY FRONTAGE. STREET TREE REQUIREMENTS SHALL BE MET BY MEANS OF A PAYMENT IN LIEU TO THE CITY OF WILMINGTON TREE FUND.)

   PROPOSED PROPERTY FRONTAGE (EAST SIDE) = 793 FT
   793/ 30 = 26.4 OR 26 REQ'D STREET TREES.

   STREET TREES REQ'D: 23
   STREET TREES PROVIDED: 23

   PROPOSED BRUNSWICK STREET FRONTAGE (NORTH SIDE) = 153 FT
   153/ 30 = 5.1 OR 5 REQ'D STREET TREES.

   STREET TREES REQ'D: 5
   STREET TREES PROVIDED: 5

   PROPOSED BRUNSWICK STREET FRONTAGE (SOUTH SIDE) = 153 FT
   153/ 30 = 5.1 OR 5 REQ'D STREET TREES.

   STREET TREES REQ'D: 5
   STREET TREES PROVIDED: 5

   7 STREET TREES WILL NEED TO BE PAYMENT IN LIEU

2. ALL PROPOSED VEGETATION WITHIN THE SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30" – 10'.

3. PUBLIC ROW SETBACK CALCULATIONS [SEC. 18-196(e)(2)]

   ALONG NUTT STREET
   BUILDING LENGTH = 775 FT
   279 FT OF BUILDING @ 16 FT SETBACK INCREASE = 279 X 16 = 4,464
   496 FT OF BUILDING @ 5 FT SETBACK INCREASE = 496 X 5 = 2,480
   4,464 + 2,480 = 6,944, 6,944 / 1,200 = 5.8 UNDER STORY TREES REQUIRED
   9 UNDER STORY TREES PROVIDED

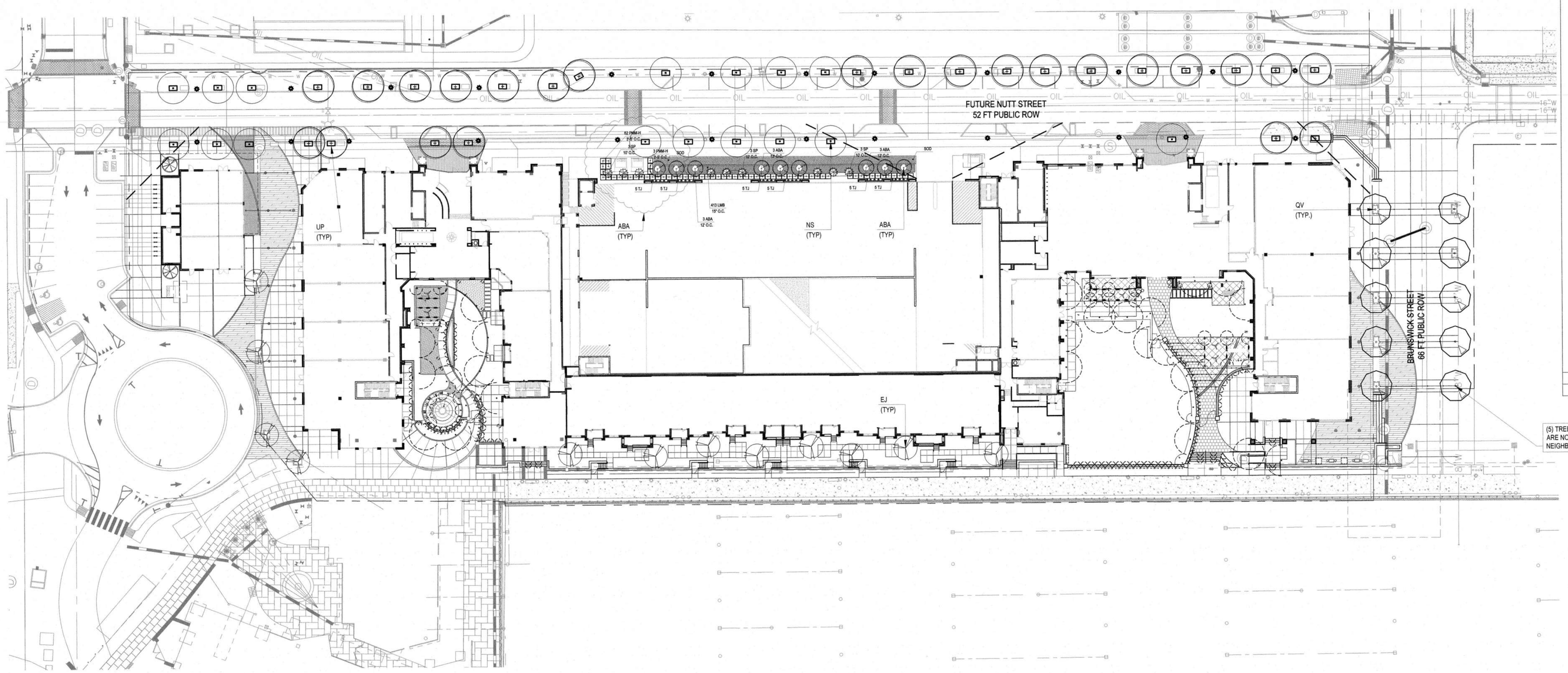
   ALONG RIVER WALK
   BUILDING LENGTH = 676 FT
   73 FT OF BUILDING @ 15.8 FT SETBACK INCREASE = 73 X 15.8 = 1,153
   59 FT OF BUILDING @ 21.7 FT SETBACK INCREASE = 59 X 21.7 = 1,280
   360 FT OF BUILDING @ 15.7 FT SETBACK INCREASE = 306 X 15.7 = 5,652
   112 FT OF BUILDING @ 19.5 FT SETBACK INCREASE = 112 X 19.5 = 2,184
   73 FT OF BUILDING @ 10 FT SETBACK INCREASE = 73 X 10 = 730
   1,153 + 1,280 + 5,652+ 2,184 + 730 = 10,999, 10,999 / 1,200 = 9.2 UNDER STORY TREES REQUIRED
   10 UNDER STORY TREES PROVIDED

CITY OF WILMINGTON REQUIRED LANDSCAPE CALCULATIONS 2

1. No plantings over thirty (30) inches in height allowed in vision clearance.
2. Protection from vehicular traffic provided around all landscaping with a minimum height of six (6) inches.
3. Owner is responsible for maintenance to ensure plant material lives and prospers.
4. Planting plans shall be approved by Landscape Designer prior to installation.
5. Landscaping shall be required at the ends of all parking rows.
6. A low buffer shall be required where parking is within fifty (50) feet of the Right-of-Way.
7. 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.
8. A minimum of fifteen (15) trees 2 inches or greater in diameter as measured 6 inches above ground per disturbed acre.
9. For recommended Plant List see "Landscape" T-10.4.

DATE APRIL, 2008	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN BY JSK	LANDSCAPE NOTES	CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807
CHECKED BY S.P., P.E.		
SCALE NOT TO SCALE		SD 15-14

CITY OF WILMINGTON STANDARD LANDSCAPE NOTES 1
SCALE: NTS



(5) TREES ON SOUTH SIDE OF BRUNSWICK STREET ARE NOT PROPOSED TO BE PLANTED UNTIL NEIGHBORING CONDOS ARE CONSTRUCTED.

CODE REQUIRED LANDSCAPE PLAN

40' 20' 0 40' 80'
SCALE: 1" = 40'

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Dewitt Carolinas
Pier 33
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Wilmington, NC 28401

NORTH CAROLINA LICENSED LANDSCAPE ARCHITECT 1330 Jonathan E. Pollard 12.7.17

J. DAVIS ARCHITECTS, PLLC LICENSED ARCHITECTURAL COMPANY CERT. NO. 51208 NORTH CAROLINA RALEIGH, N.C.

		DATE
PROJECT:	14007	PROJECT DATE
ISSUE:	TRC SUBMITTAL	08.18.2017
	TRC RE-SUBMITTAL	10.26.2017
	TRC Re-Submittal	12.7.17
REVISIONS:		
DRAWN BY:	CHK	
CHECKED BY:	JP	
CONTENT:	CODE COMPLIANT	
	LANDSCAPE PLAN	

LP1.1