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|-------------|------|-----------|-------------------|
| PROJECT No. | YEAR | SHEET No. | |
| 15A-R-0584 | 2017 | E1 | |
| REVISIONS | | | |
| No. | DATE | BY | BRIEF DESCRIPTION |
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| ELECTRICAL LEGEND | | |
|-------------------|---|-----------------|
| SYMBOL | DESCRIPTION | MOUNTING HEIGHT |
| ----- | UNDERGROUND SECONDARY SERVICE | |
| ● | PEDESTRIAN LIGHT - SEE FIXTURE SCHEDULE | ---- |
| ○ | STREET LIGHT - SEE FIXTURE SCHEDULE | ---- |
| PB | PULL BOX - SEE DETAIL 6 SHEET E8 | ---- |
| ○ | IN-GRADE LIGHT - SEE FIXTURE SCHEDULE | ---- |
| ☐ | LIGHTING CONTROL CABINET | ---- |

| ELECTRICAL ABBREVIATIONS | |
|--------------------------|---------------------------------------|
| SYMBOL | DESCRIPTION |
| ABC | ABOVE COUNTER |
| AFG | ABOVE FINISHED GRADE |
| AFF | ABOVE FINISHED FLOOR |
| AHU | AIR HANDLING UNIT |
| BKR | BREAKER |
| CKT | CIRCUIT |
| EF | EXHAUST FAN |
| EWC | ELECTRIC WATER COOLER |
| FBO | FURNISHED BY OTHERS |
| FBC | FURNISHED BY CONTRACTOR |
| FU | FUSED |
| GFI | GROUND FAULT INTERRUPTER |
| GRD/GND | GROUND |
| IG | ISOLATED GROUND |
| KUB | KNOXVILLE UTILITIES BOARD |
| MTD | MOUNTED |
| NFU | NON-FUSED |
| NIC | NOT IN CONTRACT |
| NTS | NOT TO SCALE |
| O.C. | ON CENTER |
| PNLBD | PANELBOARD |
| RT | RAIN TIGHT |
| SS | SURGE SUPPRESSION DEVICE |
| SW | SWITCH |
| TGB | TELECOMMUNICATIONS GROUND BAR |
| TGMB | TELECOMMUNICATIONS MAIN GROUND BAR |
| TYP | TYPICAL |
| UON | UNLESS OTHERWISE NOTED |
| UPS | UNINTERRUPTIBLE POWER SUPPLY |
| W | WALL MOUNTED 48" ABOVE FINISHED FLOOR |
| WH | WATER HEATER |
| WP | WEATHERPROOF |
| VIF | VERIFY IN FIELD |

| FIXTURE SCHEDULE | | | | | | | | | | | |
|------------------|--------------|-------------|-----|--------------|----------------------|--------------|--|--|---------------|---|---|
| DESIGNATION | LAMPS | | | | | MOUNTING | DESCRIPTION: SHIELDING, TYPE MATERIALS, FINISH, MOUNTING | MANUFACTURER'S PRODUCT ITEM | REMARKS | | |
| | INCANDESCENT | FLUORESCENT | LED | METAL HALIDE | HIGH PRESSURE SODIUM | | | | | WATTS (LUMENS) | HEIGHT ABOVE FINISHED GRADE |
| A | | X | | | | 59W (8111) | 16'-0" | PEDESTRIAN LUMINAIRE, SINGLE HEAD, TYPE 3, 1 @90 DEG., 4000K | COOPER NAVION | NVN-AF-01-D-U-T3-10K-4N7-BK-U0060 | HAPCO POLE. SEE DETAIL 2, SHEET E8. SEE POLE BASE DETAIL SHEET E10 (KUB STANDARD) |
| B | | X | | | | 166W (18119) | 30'-3" | ROADWAY LUMINAIRE, SINGLE HEAD, TYPE 3, 1 @90 DEG., 4000K | COOPER NAVION | NVN-AF-03-D-U-T3-10K-4N7-BK-U0062 | HAPCO POLE. SEE DETAIL 1, SHEET E8. SEE POLE BASE DETAIL SHEET E10 (KUB STANDARD) |
| B1 | | X | | | | 166W (18119) | 30'-3" | ROADWAY LUMINAIRE, SINGLE HEAD, TYPE 3, 1 @90 DEG., 4000K | COOPER NAVION | NVN-AF-03-D-U-T3-10K-4N7-BK-U0062 | PROVIDE BRACKET ARM FOR MOUNTING FIXTURE TO SIGNAL POLE. REFER TO TRAFFICE SIGNAL PLANS FOR DETAILS |
| C | | X | | | | 333W (36032) | 30'-3" | ROADWAY LUMINAIRE, SINGLE HEAD, TYPE 3, 1 @90 DEG., 4000K | COOPER NAVION | NVN-AF-06-D-U-T3-10K-4N7-BK-U0064 | HAPCO POLE. SEE DETAIL 1, SHEET E8. SEE POLE BASE DETAIL SHEET E10 (KUB STANDARD) |
| D | | X | | | | 20W (1700) | IN-GRADE | LED ARCHITECTURAL IN-GRADE, 4100K | HYDREL | M9720-SS-18LED-WHT41K-MVOLT-MFL-FLC10SR-34S | IN-GRADE SIGN LIGHT FOR MISSISSIPPI STATE COMMUNITY COLLEGE |

GENERAL NOTES:

- THE DRAWING FILES CONTAINED WITHIN THIS SET ARE DIAGRAMMATIC IN NATURE. ALL PROPOSED CONDUITS ARE TO BE INSTALLED WITHIN RIGHT-OF-WAY. ALL CONDUIT ROUTING SHALL BE OUT-SIDE OF TREE CANOPY DRIP LINE. FINAL CONDUIT ROUTING WILL BE DETERMINED AND COORDINATED AT TIME OF INSTALLATION. A 13" x 24" PULL BOX SHALL BE INSTALLED WHERE ANY CONDUIT RUN CHANGE IN DIRECTION AND/OR ELEVATION EXCEEDS 270 DEGREES. COORDINATE ELECTRICAL INSTALLATION WITH ALL TRADES PRIOR TO BEGINNING EXCAVATION.
- LEGEND ITEMS SHOWN ARE FOR REFERENCE ONLY AND MAY OR MAY NOT BE INCLUDED IN PROJECT.
- EXISTING UTILITIES - NUMEROUS UNDERGROUND UTILITIES EXIST INCLUDING MAJOR CONCRETE CULVERTS. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES. VERIFY EXISTING UTILITIES AND CULVERT PRIOR TO COMMENCEY OF WORK. THE DRAWINGS IDENTIFY AND/OR PROVIDE DIRECTIONS FOR RELOCATING OR COORDINATING WITH THESE UTILITIES. COORDINATE WITH KUB AND OTHER PROVIDERS. KUB WILL REMOVE/RELOCATE OVERHEAD ELECTRIC POWER. CONTRACTOR SHALL BEAR COSTS FOR DAMAGE TO ANY EXISTING UTILITIES.
- CONTRACTOR SHALL VISIT THE SITE, VERIFY EXISTING CONDITIONS AND BECOME FAMILIAR WITH INTENDED WORK INVOLVED.
- CONTACT SERVICING UTILITY COMPANIES AND CONFIRM REQUIREMENTS, SECURE AND PAY FOR ALL FEES AND PERMITS.
- CONFORM TO ALL LOCAL, STATE AND NATIONAL CODES, THE UTILITY CO., AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
- CONTRACTOR SHALL PROVIDE 210lb TEST PULL STRING IN ALL CONDUITS FOR FUTURE AND/OR USE BY OTHERS.
- ALL CONDUITS AND POWER CONDUCTORS ILLUSTRATED AND/OR REQUIRED AND SHOWN WITHIN "LIMITS OF CONSTRUCTION" AREA, SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- DO NOT SCALE DRAWINGS.
- ALL WIRING SHALL BE XHHW, #6 MIN. COPPER (FEEDER CIRCUIT) IN CONDUIT AND #10 IN POLE UNLESS OTHERWISE NOTED.
- SEE SHEETS 22, 23 & 24 FOR TREE PROTECTION, DEMOLITION AND NOTES.
- ALL CONDUIT(S) AND POWER FEEDER(S) FOR SIGNALIZATION EQUIPMENT IS PROVIDED BY OTHERS, SEE SIGNALIZATION PLANS FOR COORDINATION.
- EXISTING LIGHTING POLES, POLE LIGHTING FIXTURES, AND OVERHEAD SECONDARY SHALL BE DEMOLISHED BY OTHERS.
- CONTRACTOR SHALL DEMOLISH EXISTING IN-GRADE LIGHTING FIXTURES LOCATED IN FRONT OF MISSISSIPPI STATE COMMUNITY COLLEGE, TYPICAL OF (9) FIXTURES. CONTRACTOR SHALL MAINTAIN EXISTING CIRCUITS FEEDING IN-GRADE FIXTURES FOR RECONNECTION TO NEW IN-GRADE FIXTURES, TYPE "D". SEE SHEET E5 FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL CAP ALL SPARES / UNUSED CONDUITS.

| DESCRIPTION | MAIN CIRCUIT BREAKER | CONTACTOR | AMPS | POLES | CKT. BREAKER | VOLTS | PHASE | LOAD (AMPS) | LOAD | CIRCUIT | REMARKS |
|--------------------------------------|----------------------|-----------|------|-------|--------------|-------|-------|-------------|-------------|---------|---------|
| PANEL "CP620" KUB DETAIL #B-15586 | 100 AMP, 2-POLE, SE | LC1 | 60 | 2 | 20A/1P | 120 | 1 | 5.1 | LIGHTING | 1 | |
| | | | | | 20A/1P | 120 | 1 | 4.2 | LIGHTING | 2 | |
| | | LC2 | 60 | 2 | 20A/1P | 120 | 1 | 5.2 | LIGHTING | 3 | |
| | | | | | 20A/1P | 120 | 1 | 3.9 | LIGHTING | 4 | |
| | | LC3 | 60 | 2 | 20A/1P | 120 | 1 | 3.3 | LIGHTING | 5 | |
| | | | | | 20A/1P | 120 | 1 | 3.3 | LIGHTING | 6 | |
| | | LC4 | 60 | 2 | 20A/1P | 120 | 1 | 2.6 | LIGHTING | 7 | |
| | | | | | 20A/1P | 120 | 1 | 3.9 | LIGHTING | 8 | |
| TOTAL | | | | | | | | 31.6 | AMPS | | |

NOTE: 120V CIRCUITS CONSIST OF 1 HOT, 1 NEUTRAL AND 1 GROUND. THE GROUND WIRE MAY BE SHARED, NEUTRAL CANNOT.

| DESCRIPTION | MAIN CIRCUIT BREAKER | CONTACTOR | AMPS | POLES | CKT. BREAKER | VOLTS | PHASE | LOAD (AMPS) | LOAD | CIRCUIT | REMARKS |
|--------------------------------------|----------------------|-----------|------|-------|--------------|-------|-------|-------------|-------------|---------|---------|
| PANEL "CP621" KUB DETAIL #B-15586 | 100 AMP, 2-POLE, SE | LC1 | 60 | 2 | 20A/1P | 120 | 1 | 3.8 | LIGHTING | 1 | |
| | | | | | 20A/1P | 120 | 1 | 3.8 | LIGHTING | 2 | |
| | | LC2 | 60 | 2 | 20A/1P | 120 | 1 | 5.3 | LIGHTING | 3 | |
| | | | | | 20A/1P | 120 | 1 | 5.2 | LIGHTING | 4 | |
| | | LC3 | 60 | 2 | 20A/1P | 120 | 1 | 2.8 | LIGHTING | 5 | |
| | | | | | 20A/1P | 120 | 1 | 2.8 | LIGHTING | 6 | |
| | | LC4 | 60 | 2 | 20A/1P | 120 | 1 | 3.9 | LIGHTING | 7 | |
| | | | | | 20A/1P | 120 | 1 | 3.9 | LIGHTING | 8 | |
| TOTAL | | | | | | | | 31.5 | AMPS | | |

NOTE: 120V CIRCUITS CONSIST OF 1 HOT, 1 NEUTRAL AND 1 GROUND. THE GROUND WIRE MAY BE SHARED, NEUTRAL CANNOT.



Location of all underground utilities shown hereon are approximate and are based on field location of visible structures such as catch basins, manholes, water gages, etc. and compiling information from utility company plans. The utilities shown hereon may not comprise all of the existing utilities in this area, either in service or abandoned. In accordance with The Underground Utility Damage Prevention Act, prior to any excavation work call Tennessee One Call System, Inc. at 1-800-351-1111.



CITY OF KNOXVILLE
OFFICE OF REDEVELOPMENT
GENERAL NOTES, LEGEND
AND SCHEDULES
MAGNOLIA AVENUE
STREETSCAPE PROJECT
PHASE I

SCALE: N.T.S.

DRAWN: KCB
DESIGNED: RMW
DATE: 11-06-17
CHECKED: ORR
APPROVED: RMW