BID ALTERNATES NOTES:

SEE SPECIFICATIONS AND GENERAL SHEETS FOR BID ALTERNATE DESCRIPTIONS. SEE ADDITIONAL NOTES ON ARCHITECTURAL, MECHANICAL, PLUMBING, CIVIL, AND STRUCTURAL SHEETS.

FOR BID ALTERNATES #3 THRU #5:

1. RELOCATE TYPE 'H' FIXTURES AT STRUCTURAL GRID LINE 'B' TO NEAREST ELEVATOR AND STAIR EXTERIOR WALLS.

FOR BID ALTERNATES #3 THRU #6:

1. RELOCATE ALL ITEMS SHOWN IN THE UNCOVERED AREAS DOWN TO THE UPPERMOST UNCOVERED LEVEL AS APPLICABLE FOR THE BID ALTERNATE SELECTED, U.N.O.
2. PROVIDE ALL ITEMS INSIDE ELEVATOR NO. 2 (2A & 2B) REGARDLESS OF BID ALTERNATE TAKEN. IN ADDITION, PROVIDE (2) GFI RECEPTACLES INSIDE ELEVATOR SHAFT AT APPROX. 6' ABOVE UPPERMOST LEVEL INSTALLED.
3. PROVIDE ALL ITEMS ON TOP OF ELEVATOR AND STAIR TOWERS REGARDLESS OF BID ALTERNATE TAKEN.
4. PROVIDE ALL ITEMS INSIDE STAIR TOWERS REGARDLESS OF BID ALTERNATE TAKEN.

FOR BID ALTERNATE #4 THRU #6:

1. PROVIDE SMOKE DETECTION IN GROUND LEVEL MECHANICAL ROOM AS REQUIRED BY NFPA.

FOR BID ALTERNATES #5 AND #6:

1. ADD (3) TYPE 'DL' FIXTURES AT GROUND LEVEL VEHICLE ENTRANCE.
2. ADD (3) TYPE 'DL' FIXTURES AT SOUTHEAST CORNER OF UPPERMOST COVERED AREA.
3. RELOCATE TELECOM ROOM AND ALL ASSOCIATED COMPONENTS (INCLUDING BUT NOT LIMITED TO LIGHTING, SWITCHES, DISCONNECTS, BACKBOARDS, RECEPTACLES, TERMINATION EQUIPMENT, FIRE ALARM DEVICES, ETC.) TO GROUND LEVEL. PROVIDE ADDITIONAL PULLBOXES AS REQUIRED FOR CONDUIT ROUTING TO UPPER LEVELS.
4. INCREASE MIN. SECURITY RACEWAY AND EMERGENCY TELEPHONE CABLE RACEWAY SIZES TO 1-1/2" DIAMETER.
5. RELOCATE ELEVATOR CONTROL ROOM, ELEVATOR LOBBY, AND ALL ASSOCIATED ITEMS TO LOWER LEVEL.

FOR BID ALTERNATE #6:

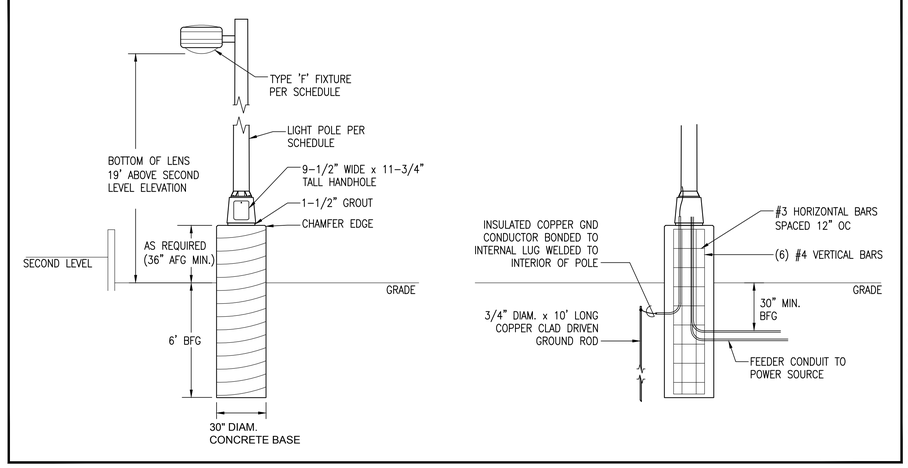
1. DELETE PHOTOCELL 'PC-D0'; HOWEVER ASSOCIATED ITEMS (SUCH AS CONTACTORS AND CONTROLS) SHALL BE PROVIDED AND MARKED AS SPARE.
2. PROVIDE TYPE 'F' FIXTURE AND POLE ON CONCRETE BASE AT SECOND LEVEL VEHICLE ENTRANCE (INSTEAD OF TYPE 'H' WALL-MTD. FIXTURE) TO ILLUMINATE ENTRANCE AND SIDEWALKS. INSTALL ADJACENT TO GARAGE. COORDINATE LOCATION WITH UNDERGROUND CIVIL AND STRUCTURAL COMPONENTS. SEE DETAIL BELOW.
3. PROVIDE TYPE 'H' FIXTURE ABOVE GROUND LEVEL VEHICLE ENTRANCE.
4. HORN/STROBE AND EXTERIOR LIGHT AT THE STAIR NO. 1 NORTH PEDESTRIAN EXIT SHALL REMAIN.

GENERAL ELECTRICAL NOTES

APPLICABLE TO ALL ELECTRICAL SHEETS

1. REFER TO SHEET G002 FOR BID ALTERNATE DESCRIPTIONS.
2. ALL WORK SHALL COMPLY WITH NEC, NFPA, AND ALL APPLICABLE FEDERAL CODES.
3. ALL RECEPTACLES SHALL HAVE THE NEMA 5-20R CONFIGURATION, UNO. EACH RECEPTACLE SHALL BE CAPABLE OF ACCEPTING 15A AND 20A PLUGS. ALL RECEPTACLES SHALL BE GFI TYPE, U.N.O. ALL RECEPTACLES NOT LOCATED IN ENCLOSED ROOMS SHALL HAVE WEATHERPROOF IN-USE COVERS.
4. CONDUCTORS FOR ALL LIGHTING CIRCUITS SHALL BE CU #10 AWG MIN.
5. ALL ABOVEGROUND RACEWAY EXPOSED TO NON-CONDITIONED AIR (i.e. PARKING AREAS, STAIR TOWERS, AND NON-CONDITIONED SPACES) SHALL BE IMC OR RMC, NOT EMT. USE OF EMT SHALL BE PERMITTED ONLY IN CONDITIONED ROOMS, SUCH AS THE MECHANICAL ROOM, ELECTRICAL ROOM, ELEVATOR CONTROL ROOM, AND CONDITIONED LOBBIES.
6. ALL BRANCH CIRCUITS SHALL BE RUN WITH DEDICATED NEUTRALS: NO SHARED NEUTRALS.
7. COORDINATE BLOCKOUTS AND PROVISION FOR CONDUITS W/ PRECASTER. SEE SHEET E401. HORIZONTAL CONDUITS SHALL BE ROUTED THROUGH BLOCKOUTS IN TEES AND BEAMS. CONDUIT SHALL NOT BE ROUTED UNDER TEES OR BEAMS.
8. EACH FACEPLATE FOR RECEPTACLES AND LIGHT SWITCHES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBER.
9. SEE SPECIFICATIONS AND DETAILS ON SHEET E502 FOR ALL CONDUITS CROSSING EXPANSION JOINTS. CONDUITS SHALL NOT BE ROUTED THROUGH EXPANSION JOINTS; THIS INCLUDES BUT IS NOT LIMITED TO VERTICAL RISERS NEAR STAIRS, ELEVATORS, AND SHEER WALLS.
10. ALL UNDERGROUND ELBOWS AND SWEEPS (BOTH VERTICAL AND HORIZONTAL) SHALL BE PVC-COATED RGS. PVC ONLY ELBOWS AND SWEEPS ARE NOT ALLOWED.
11. WP BOXES SHALL NOT BE ENTERED THROUGH THE TOP – NO EXCEPTIONS WILL BE ACCEPTED.
12. PROVIDE PHENOLIC NAMEPLATES FOR ALL ELECTRICAL EQUIPMENT AND CABINETS. SEE DETAIL AND REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS REGARDING EQUIPMENT AND DEVICE LABELING.
13. PERMANENTLY LABEL ALL JUNCTION BOXES WITH CIRCUIT NUMBERS OF THE ENCLOSED CONDUCTORS. JUNCTION BOXES FOR FUTURE USE SHALL BE LABELED WITH THE NAME OF THE EQUIPMENT THE ATTACHED RACEWAY EXTENDS TO (i.e. "LCP" OR "PNL ELA"). JUNCTION BOXES FOR CONTROL CONDUCTORS ONLY SHALL INDICATE SOURCE (i.e. ATS-ELVDP) AND DESTINATION (i.e. ELEVATOR CONTROL ROOM).
14. PROVIDE APPROVED STEEL GUARDS AROUND JUNCTION BOXES, CONDUITS, AND OTHER EQUIPMENT EXPOSED TO POSSIBLE BUMPER DAMAGE. SEE DETAIL 6 SHEET E401 FOR CONDUIT RISER GUARDS.
15. REFER TO SPECS FOR BID ALTERNATE DESCRIPTIONS. REGARDLESS OF BID ALTERNATE SELECTED, CONTRACTOR SHALL INCLUDE ALL RACEWAY INFRASTRUCTURE NECESSARY FOR DEDUCTED LEVELS TO BE COMPLETED WITHOUT THE NEED FOR FUTURE ADDITIONAL RACEWAY AT LOWER LEVELS. FOR DEDUCTED LEVELS, CONDUIT FOR FUTURE USE SHALL BE INSTALLED TO AND CAPPED AT 6" MIN. ABOVE THE FLOOR AT THE HIGHEST COVERED LEVEL. IF THE LOWEST LEVEL IS UNCOVERED (SUCH AS ALTERNATE #6), RACEWAY FOR DEDUCTED LEVELS SHALL BE STUBBED UP AND CAPPED 6" MIN. ABOVE THE FLOOR.
16. EQUIPMENT SHALL BE ANCHORED AND BRACED FOR SEISMIC ACTIVITY PER SPECS AND STRUCTURAL DRAWINGS. THIS INCLUDES, BUT IS NOT LIMITED TO, LIGHTING, PANELBOARDS, TRANSFORMERS, AUTOMATIC TRANSFER SWITCHES, AND CONDUITS.
17. PROVIDE ALL SPARE OR EMPTY CONDUITS WITH PULLSTRINGS FOR FUTURE USE. ALSO PROVIDE TEMPORARY CAPS TO PREVENT ACCUMULATION OF DEBRIS.
18. EXCESS CABLING OR SERVICE LOOPS SHALL BE PROVIDED IN EACH PULLBOX AND MANHOLE.

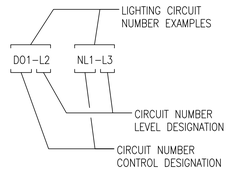
POLE AND BASE DETAIL



SYMBOLS

LIGHTING

- EXTERIOR POLE MOUNTED LIGHT FIXTURE ASSEMBLY, NUMBER OF HEADS AS INDICATED ON DRAWINGS
- GARAGE LIGHT FIXTURE
- GARAGE LIGHT FIXTURE, ALWAYS ON, CONNECTED TO EMERGENCY CIRCUIT
- 4' FLUORESCENT LIGHT FIXTURE, SURFACE MTD
- 4' FLUORESCENT LIGHT FIXTURE, CONNECTED TO EMERGENCY CIRCUIT
- 4' FLUORESCENT STRIP FIXTURE,
- LINEAR FLUORESCENT LIGHT FIXTURE, WALL MTD.
- WALL MOUNTED LIGHT FIXTURE
- LED EXIT SIGN, SINGLE-FACE, DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS
- LED EXIT SIGN, DOUBLE-FACE, DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS
- PC — PHOTOCELL
- OS — OCCUPANCY SENSOR AND RELAY, INFRARED/ULTRASONIC DUAL TECHNOLOGY, UNO CEILING OR WALL MTD.
- $ — TOGGLE SWITCH
- $3 — TOGGLE SWITCH, 3-WAY
- $4 — TOGGLE SWITCH, 4-WAY



GL GROUND LEVEL
L2 SECOND LEVEL
L3 THIRD LEVEL
L4 FOURTH LEVEL (COVERED)
TL FOURTH LEVEL (UNCOVERED)
TL TOP LEVEL (UNCOVERED)

POWER

- PANELBOARD, DOOR-IN-DOOR COVER, SURFACE MTD.
- ENCLOSURE OR EQUIPMENT CABINET
- TRANSFORMER
- DISCONNECT SWITCH
- MOTOR STARTER
- M — MOTOR
- $M — TOGGLE SWITCH, MOTOR RATED
- DUPLEX RECEPTACLE, GFI TYPE, MTD. +18", UNO
- WP — DUPLEX RECEPTACLE, GFI TYPE, WEATHERPROOF, MTD. +18", UNO
- DUPLEX RECEPTACLE, GFI TYPE, CEILING MTD.
- QUADPLEX RECEPTACLE, MTD. +18" UNO
- J — CEILING MOUNTED JUNCTION BOX
- J — WALL MOUNTED JUNCTION BOX
- J D — JUNCTION BOX FOR CONNECTION TO AUTOMATIC DOOR OPERATOR
- J P — JUNCTION BOX FOR CONNECTION TO AUTOMATIC DOOR OPERATOR PUSH BUTTON, MTD. +48" UNO
- HT — WP JUNCTION BOX TO CONNECT CIRCUIT CONDUCTORS TO HEAT TRACE CABLE. HEAT TRACE CABLE AND THERMOSTAT SHALL BE SUBMITTED UNDER DIVISION 22. BASIS OF DESIGN FOR CIRCUIT SIZING: 5-WATTS/FOOT MAXIMUM, SELF-REGULATING CABLE WITH THERMOSTAT SET TO TURN ON AT AN OUTSIDE TEMPERATURE NOT LESS THAN 40°F, MAXIMUM HEAT TRACE CABLE LENGTH PER 20A CIRCUIT SHALL BE 200'. PROVIDE LABEL ON BOX COVER INDICATING CIRCUIT NUMBER AND "HEAT TRACE CABLE". ACCESSORIES FOR CONNECTION SHALL BE PROVIDED SUCH THAT ALL HEAT TRACE CABLE IS CONCEALED UNDER THE INSULATION OR WITHIN THE JUNCTION BOX (EXPOSED HEAT TRACE CABLE IS NOT PERMITTED). HEAT TRACE CABLE CIRCUITS SHALL BE FED FROM GFI-TYPE CIRCUIT BREAKERS WITH (2)#10, (1)#10G IN 3/4"C MIN. CONDUCTORS.
- T HT — THERMOSTAT SWITCH FOR HEAT TRACE CIRCUIT CONTROL. SEE SPECS. PROVIDE LOCKED ENCLOSURE TO PROHIBIT ADJUSTABLE SETTING CHANGES EXCEPT BY VA FACILITIES PERSONNEL.
- LIGHTNING PROTECTION AIR TERMINAL
- LP — LIGHTNING PROTECTION CONDUCTOR
- DRIVEN GROUND ROD
- MECHANICAL OR EXOTHERMIC BOND AS NOTED
- CONDUIT CONCEALED IN WALL OR CLG.
- CONDUIT UNDER FLOOR
- FLEXIBLE METAL CONDUIT CONNECTION
- HOMERUN TO PNL WITH (2) #12, #12G IN 3/4"C, UNO.

SINGLE LINE DIAGRAMS

- TRANSFORMER
- CIRCUIT BREAKER
- FUSE
- SWITCH
- TERMINALS
- CONTACT (NORMALLY OPEN)
- CONTACT (NORMALLY CLOSED)
- OL — OVERLOAD RELAY
- W — PILOT LIGHT
- GROUND
- DENOTES SCOPE OF DEMOLITION ON RISER

SYSTEMS

- TELEPHONE OUTLET, MTD. +48", UNO
- DATA/TELEPHONE OUTLET, MTD. +48", UNO
- EMERGENCY TELEPHONE OUTLET, MTD. +48", UNO
- S C — JUNCTION BOX FOR FUTURE SECURITY CAMERA, MTD. AT +9'-0" AFF, UNO
- P — FIRE ALARM PULL STATION, MTD. +48", UNO
- H — FIRE ALARM HEAT DETECTOR, CEILING MTD., UNO
- S — FIRE ALARM SMOKE DETECTOR, CEILING MTD., UNO
- X — FIRE ALARM HORN/STROBE
- X — FIRE ALARM STROBE
- EOL — FIRE ALARM END-OF-LINE RESISTOR
- BREAK LINE OR CONTINUATION

SHEET SYMBOLS

- 1 — SHEET KEYNOTE SYMBOL, SEE RIGHT BORDER FOR TEXT
- D2 / E201 — DETAIL NUMBER / SHEET NUMBER WHERE DETAIL CAN BE FOUND

ABBREVIATIONS

A	AMPERE
AFC	AVAILABLE FAULT CURRENT
AFF	ABOVE FINISHED FLOOR
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
BR	BRANCH
C	CONDUIT
CFL	COMPACT FLUORESCENT
CKT	CIRCUIT
CLG	CEILING
COORD	COORDINATE
CPT	CONTROL POWER TRANSFORMER
CR	CONTROL RELAY
CRI	COLOR RENDITION INDEX
Cu	COPPER
DISC	DISCONNECT
DGR	DRIVEN GROUND ROD
EBJ	EQUIPMENT BONDING JUMPER
EF	EXHAUST FAN
EGC	EQUIPMENT GROUNDING CONDUCTOR
EM	EMERGENCY
ENCL	ENCLOSURE, ENCLOSED
ETR	EXISTING TO REMAIN
EXIST	EXISTING
EXP JT	EXPANSION JOINT
FACP	FIRE ALARM CONTROL PANEL
FLUOR	FLUORESCENT
FO	FIBER OPTIC
FR	FIRE RESISTANT
FTR	FUTURE
G, GND	GROUND
GBB	GROUND BUS BAR
GEC	GROUNDING ELECTRODE CONDUCTOR
GFI	GROUND FAULT INTERRUPT
GWB	GYPSUM WALL BOARD
HD	HEAVY DUTY
HOA	HAND-OFF-AUTO
HOR	HAND-OFF-REMOTE
JB	JUNCTION BOX
K	KELVIN
KVA	KILO-VOLT AMPERE
KW	KILO-WATT
LED	LIGHT EMITTING DIODE
LS	LIFE SAFETY
LTFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
MBJ	MAIN BONDING JUMPER
MCB	MAIN CIRCUIT BREAKER
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MV	MEDIUM VOLTAGE
N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSED
NTS	NOT TO SCALE
OEM	ORIGINAL EQUIPMENT MANUFACTURER
OL	OVERLOAD
P	POLE
PB	PULL BOX
P/C	PRECAST
PH, ø	PHASE
PNL	PANEL
PRI	PRIMARY
RC	REMOTE CONTROL
REF	REFRIGERATOR
RGS	RIGID GALVANIZED STEEL
SBJ	SYSTEM BONDING JUMPER
SEC	SECONDARY
SHT	SHEET
SW	SWITCH
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
THD	TOTAL HARMONIC DISTORTION
TLA	TO LANDING ABOVE
TLB	TO LANDING BELOW
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
VA	VOLT-AMPERE
VAC	VOLTS ALTERNATING CURRENT
W	WIRE OR WATT
W/	WITH
WP	WEATHERPROOF
XFMR	TRANSFORMER

FINAL CONSTRUCTION DRAWINGS
APPROVED FOR CONSTRUCTION

Dwg. File

Revisions	Date
2 BID ALTERNATES – ADDENDUM #1	08/20/15
1 CITP REVIEW – REPLACEMENT PAGE	04/14/15

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Drawing Title: ELECTRICAL ABBREVIATIONS, SYMBOLS AND GENERAL NOTES

Project Title: CONSTRUCT 525 SPACE PARKING GARAGE
CONTRACT No. VA249-14-C-0150 P.O. No. 621C40254

Building Number: 160
Checked: CJF
Drawn: KLL
Location: VAMC MOUNTAIN HOME, TENNESSEE

Date: MARCH 26, 2015
Project No. 621-330
DRAWING NO. E001

Department of Veterans Affairs

VA FORM 08-6231, DEC 1989