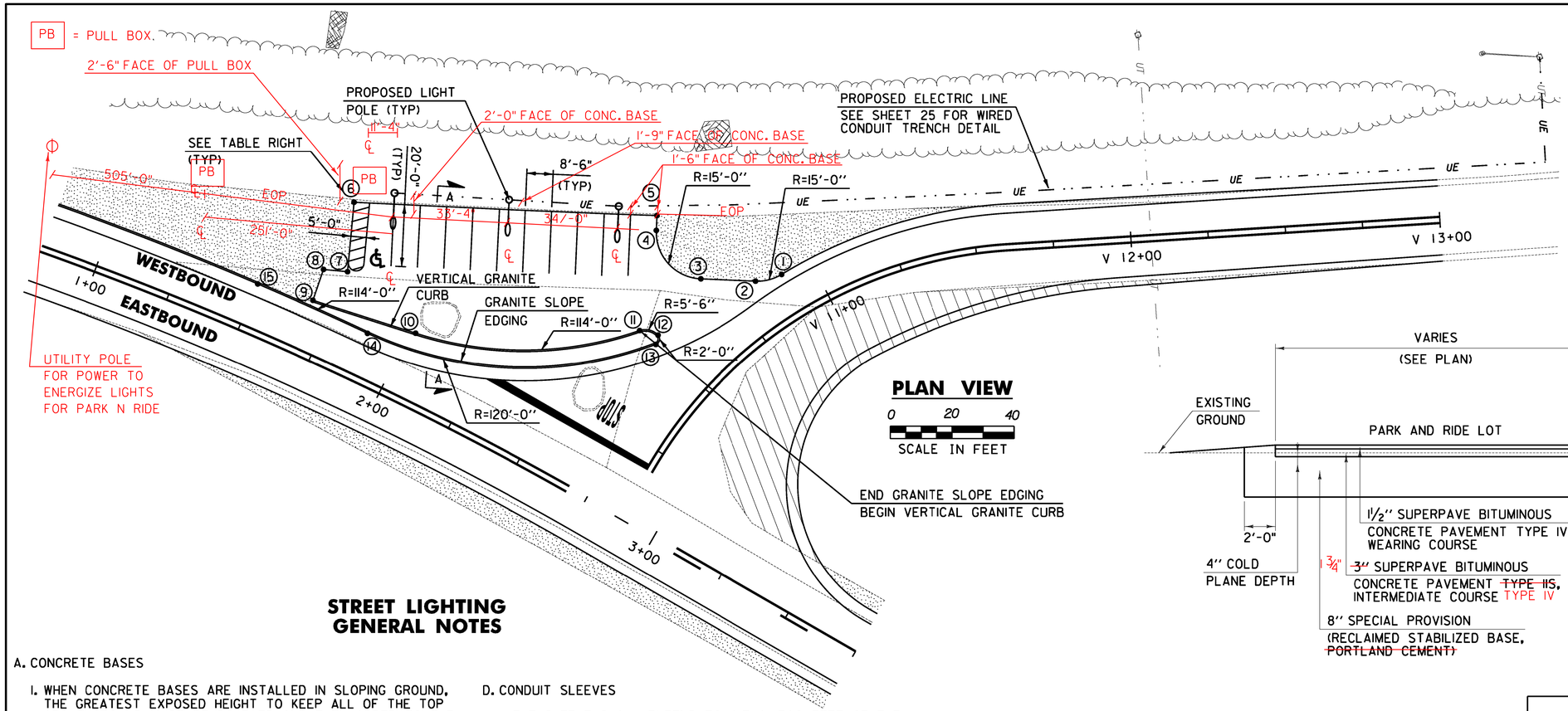
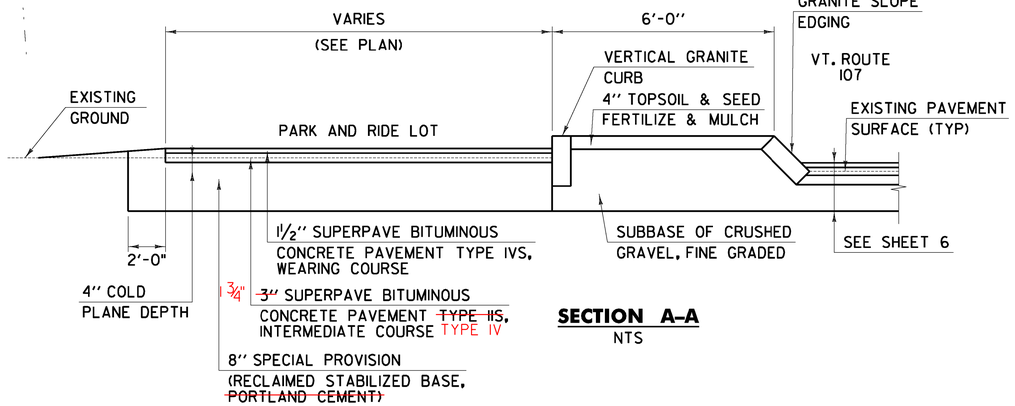


PLAN VIEW

0 20 40

SCALE IN FEET



SECTION A–A

NTS

STREET LIGHTING GENERAL NOTES

A. CONCRETE BASES

1. WHEN CONCRETE BASES ARE INSTALLED IN SLOPING GROUND, THE GREATEST EXPOSED HEIGHT TO KEEP ALL OF THE TOP ABOVE GROUND MUST BE DOUBLED AND THEN ADDED TO THE MINIMUM DEPTH FOR THE TOTAL BASE DEPTH.
2. CARE SHOULD BE TAKEN WHERE CONCRETE BASES, DRAINAGE STRUCTURES OR UTILITIES ARE CLOSE TOGETHER.
3. THE OFFSET FOR CONCRETE BASES (FACE OF CURB OR EDGE OF PAVEMENT TO CENTER OF CONCRETE BASE) SHALL BE A MINIMUM OF 2'-6" OR AS OTHERWISE NOTED ON THE PLANS.

B. POLES, ANCHOR BASES, AND ARMS

1. ALL NEW STREET LIGHT POLES, POLE BASES, AND LUMINAIRE ARMS SHALL BE ALUMINUM, PAINTED FLAT BLACK.
2. ALL STREET LIGHT POLES SHALL HAVE A FRANGIBLE OR BREAKAWAY DEVICE (TRANSFORMER BASE, UNLESS NOTED ON THE PLANS).
3. UTILIZE APPROVED DUAL-RATED PARALLEL TAP CONNECTOR WITH INSULATING COVER TO TAPS AT POLE BASES.

C. LUMINAIRES

1. LUMINAIRES SHALL BE L.E.D. TYPE ONLY.
2. POLE-MOUNTED LUMINAIRES SHALL BE ONE OF THE FOLLOWING ONLY:
   - BETA LEDWAY IP SERIES
   - HOLOPHANE LEDgends SERIES
   - LRL LED SAT-96M SERIES
3. ALL LUMINAIRES SHALL BE THE SAME; A MIX OF FIXTURES WILL NOT BE ALLOWED. NO LUMINAIRE SUBSTITUTIONS OTHER THAN THOSE ON THE PREVIOUS LIST SHALL BE ALLOWED.
4. ALL LUMINAIRES SHALL BE EQUIPPED WITH BIRD SPIKES ON TOP.
5. ALL LUMINAIRE HOUSINGS SHALL BE PAINTED FLAT BLACK.

D. CONDUIT SLEEVES

1. THE SLEEVE SHALL EXTEND TO WITHIN TWO FEET OF THE SIDE OF A CONCRETE BASE OR PULLBOX. WHERE NO CONCRETE BASE OR PULLBOX IS PRESENT, THE SLEEVE SHALL EXTEND FOUR FEET BEYOND THE OUTSIDE EDGE OF SHOULDER OR FACE OF CURB. BACKFILLING AROUND A SLEEVE SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. THE SLEEVE SHALL BE SCHEDULE 80.

E. WIRE

1. ALL WIRING BETWEEN THE METER AND/OR THE POWER SOURCE AND THE FIRST POLE AND/OR PULLBOX AND BETWEEN POLES AND/OR PULLBOXES SHALL BE COPPER AND SIZED AS SPECIFIED ON THE PLANS. ALL WIRE SHALL HAVE TYPE XHHW INSULATION OR EQUIVALENT.
2. CIRCUIT CONDUCTORS SHALL BE CLEARLY IDENTIFIED BY CORROSION RESISTANT TAGS INDICATING CIRCUIT NUMBER AND PANEL SOURCES AT EVERY POLE BASE AND HANDHOLE.

F. GROUNDING

1. ALL CONDUIT MUST INCLUDE A GROUNDING CONDUCTOR. RIGID PVC CONDUIT SHALL BE PROPERLY CONNECTED AT THE JOINTS SO AS TO BE WATERTIGHT AND MAINTAIN ELECTRICAL CONTINUITY AND HAVE GROUNDING BUSHINGS SO AS TO ACT AS A GROUNDING CONDUCTOR.
2. THE GROUNDING CONDUCTOR SHALL BE CONTINUOUS.
3. ALUMINUM WIRE SHALL NOT BE USED FOR GROUND WIRE.

G. PULLBOXES, HANDHOLES, AND JUNCTION BOXES

1. POLYMER CONCRETE AND REINFORCED FIBERGLASS U.L. LISTED PULLBOXES AND HANDHOLES SHALL BE INSTALLED WITH HEAVY DUTY COVERS.
2. ALL CONNECTIONS IN HANDHOLES SHALL BE MADE WITH INSULATED WATERPROOF MECHANICAL SCREW-TYPE CONNECTORS SUITABLE FOR DIRECT BURIAL. NO BARE OR COMPRESSION TYPE CONNECTORS MAY BE USED.

H. GENERAL

1. THE LOAD ON EACH BRANCH OF A THREE WIRE CIRCUIT SHALL BE AS BALANCED AS POSSIBLE. LOAD TO NEUTRAL.
2. THE LAST CONCRETE POLE BASE AT THE END OF EACH CIRCUIT AND SOME PULLBOXES SHALL HAVE A CONDUIT SWEEP WITH CAP INSTALLED FOR FUTURE USE.
3. THE CONTRACTOR SHALL ACQUIRE ALL NECESSARY PERMITS AND MAKE ALL NECESSARY ARRANGEMENTS WITH THE UTILITY COMPANY TO PROVIDE A PERMANENT POWER SUPPLY TO THE STREET LIGHTING SYSTEM. IF APPLICABLE, THE ROUTING OF POWER TO THE SYSTEM SHALL BE SUCH THAT THE AGENCY OF TRANSPORTATION HAS FULL RESPONSIBILITY FROM THE TRANSFORMER THROUGH THE LIGHTING SYSTEM. NO INTERVENING OWNERSHIP OR RESPONSIBILITY SHALL BE ALLOWED.
4. ALL CONNECTING HARDWARE (NUTS, BOLTS, ETC.) SHALL BE STAINLESS STEEL.
5. MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITERS' LABORATORIES AND SHALL BE INSTALLED IN ACCORDANCE WITH SUCH LISTINGS.
6. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, AND ALL CODES, REGULATIONS AND REQUIREMENTS OF ALL MUNICIPAL, STATE, FEDERAL, AND OTHER PUBLIC OR PRIVATE AUTHORITIES WHICH HAVE JURISDICTION. IN EACH CASE, CODES ARE MINIMUM REQUIREMENTS.

J. ILLUMINATION REQUIREMENTS

1. LIGHTING LEVELS AS MEASURED AT THE TRAVELED SURFACE SHALL HAVE AN AVERAGE MAINTAINED ILLUMINANCE OF 1.0 FOOT-CANDLES WITH A 3:1 TO 4:1 UNIFORMITY RATIO.

PARK & RIDE/CURBED ISLAND LAYOUT TABLE

POINT	NORTHING	EASTING
1	464568.258	1571172.334
2	464569.422	1571163.705
3	464576.819	1571147.515
4	464596.696	1571140.105
5	464601.062	1571142.100
6	464641.848	1571053.241
7	464621.897	1571042.855
8	464625.491	1571035.950
9	464617.559	1571029.035
10	464595.256	1571055.668
11	464568.810	1571122.931
12	464565.211	1571127.885
13	464562.687	1571126.108
14	464601.044	1571041.301
15	464629.189	1571014.460

PARK AND RIDE LAYOUT AND DETAIL SHEET

PROJECT NAME: STOCKBRIDGE-BETHEL

PROJECT NUMBER: STP 2910(11)

FILE NAME: z10b214_par_lay.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: L.M.B.
IPARM FILE: z10b214parlay.i

PLOT DATE: 3/17/2014
DRAWN BY: W.G.P.
CHECKED BY: J.P.S.
SHEET 31 OF 397

FILE NAME = V:\Projects\VAVTVK21\22426\CADD_MSTN\z10b214_par_lay.dgn
DATE/TIME = 3/17/2014
USER = 4916