

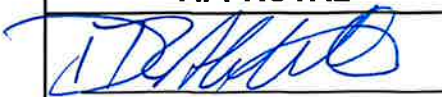

CONDUIT & DUCT BANK NOTES

1. EASTON UTILITIES SHALL SPECIFY THE NUMBER, SIZE AND CONDUIT PATHS. THE ENGINEERING FIRM OR DESIGNER IS RESPONSIBLE TO LAYOUT DUCT BANK CONDUITS IN A MANNER THAT IS ORGANIZED; PREVENTING CONFLICTS WITH OTHER CONDUITS IN THE DUCT BANK AS WELL AS UTILITIES THAT ARE EXISTING AND/OR PROPOSED FOR THE PROJECT.
2. CONDUITS SHALL BE FURNISHED AND INSTALLED BY A CONTRACTOR AT THE DEVELOPER'S/PROPERTY OWNER'S EXPENSE.
3. THE INSTALLATION OF CONDUITS SHALL BE INSPECTED PRIOR TO BACKFILLING BY A REPRESENTATIVE OF EASTON UTILITIES.
4. ALL DIRECT-BURIED CONDUITS SHALL BE RIGID NON-METALLIC UL SCHEDULE 40, SUNLIGHT RESISTANT AND LISTED FOR 90 C CONDUCTORS OR CABLE IN ACCORDANCE WITH THE NEC. MINIMUM 10' LENGTHS.
5. THE NUMBER OF JOINTS SHALL BE KEPT AT A MINIMUM. THE USE OF SCRAP PIECES IS PROHIBITED WHEN FULL LENGTH SECTIONS CAN BE USED.
6. REQUIRED DEPTH OF CONDUIT FROM FINAL GRADE TO TOP OF CONDUIT/CONDUIT BANK: MINIMUM 42"; MAXIMUM 54" EXCEPTIONS MAY BE GIVEN IF APPROVED BY EASTON UTILITIES.
7. ALL BENDS SHALL BE NO LESS THAN 36" IN RADIUS FOR CONDUITS 3 1/2" IN DIAMETER AND SMALLER.
8. ALL BENDS SHALL BE NO LESS THAN 48" IN RADIUS FOR CONDUITS 4" IN DIAMETER AND GREATER.
9. CONDUIT JOINT AND FITTINGS SHALL BE GLUED PER THE PIPE MANUFACTURERS RECOMMENDATIONS.
10. CONDUITS SHALL BE SLOPED AWAY FROM THE CUSTOMER'S BUILDING TO REDUCE THE POTENTIAL FOR WATER INTRUSION INTO THE BUILDING.
11. DURING CONDUIT INSTALLATION, DUCT ASSEMBLY ENDS SHALL BE CLOSED WITH PULL TAB EQUIPPED PUSH-IN POLYVINYL CHLORIDE (PVC) PLASTIC DUCT PLUGS TO PREVENT SOIL OR WATER ENTRY.
12. DUCT BANK CONSTRUCTION SHALL NOT INCLUDE MORE THAN THE EQUIVALENT OF TWO QUARTER (90 DEGREE) BENDS (180 DEGREES TOTAL) BETWEEN PULL POINTS. IF MORE THAN TWO QUARTER BENDS IS NECESSARY ADDITIONAL MANHOLES, VAULTS OR PULL BOXES MAY BE PROPOSED. CONTACT EASTON UTILITIES.
13. NON DUCT BANK CONSTRUCTION SHALL NOT INCLUDE MORE THAN THE EQUIVALENT OF FOUR QUARTER (90 DEGREE) BENDS (360 DEGREES TOTAL) BETWEEN PULL POINTS. IF MORE THAN FOUR QUARTER BENDS IS NECESSARY ADDITIONAL MANHOLES, VAULTS OR PULL BOXES MAY BE PROPOSED. CONTACT EASTON UTILITIES.
14. BACKFILL EVENLY AROUND CONDUITS WITH CLEAN DRY FILL BASED ON PROJECT REQUIREMENTS. PROTECT THE CONDUITS; DO NOT PERMIT LARGE LOADS OF FILL TO FALL DIRECTLY ONTO THE DUCTS AND MECHANICALLY TAMP IN 12" LIFTS. ADD ELECTRIC TRENCH TAPE 12" FROM TOP OF TRENCH.
15. DUCT BANKS SHALL ONLY BE BACKFILLED BASED ON THE RECOMMENDATIONS OF THE DESIGN ENGINEER USING DRY SAND OR CONCRETE THAT IS FLUID ENOUGH TO FILL VOIDS, TO A DEPTH OF 2" ABOVE THE DUCT BANK OR AS REQUIRED BY THE DESIGN ENGINEER. PROTECT THE DUCT BANK; DO NOT PERMIT LARGE LOADS OF FILL TO FALL DIRECTLY ONTO THE DUCT BANK AND MECHANICALLY TAMP IN 12" LIFTS.
16. DUCT BANKS SHALL USE NONMETALLIC INTERLOCKING DUCT SPACERS TO KEEP CONDUITS ORGANIZED AND PROPERLY SEPARATED. INSTALLATION OF THE SPACERS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
17. INSTALL RAYCHEM RAYFLAT DUCT SEALING SYSTEM OR AN APPROVED EQUAL WITHIN DUCTS ENTERING AND LEAVING THE NEW ELECTRICAL MANHOLES OR VAULTS. THE CONTRACTOR IS RESPONSIBLE FOR SEALING ALL CONDUITS, BOTH PERMANENTLY AND TEMPORARILY AFTER EACH ELECTRICAL MANHOLE OR VAULT IS CLEANED.
18. AFTER CONDUIT INSTALLATION IS COMPLETE, A VERIFICATION MANDREL 6-INCHES LONG AND NOT MORE THAN 1/4-INCH DIAMETER SMALLER THAN THE TRADE SIZE DIAMETER OF THE DUCT SHALL BE DRAWN THROUGH EACH DUCT TO ENSURE THAT DUCT HAS NOT BEEN DEFORMED. WHEREVER A DUCT IS FOUND NOT TO BE ABLE TO PASS THE MANDREL TEST, THE CONTRACTOR, AT NO ADDITIONAL COST TO EASTON UTILITIES SHALL MAKE REPAIRS FOR EACH FAILED CONDUIT.
19. AFTER THE MANDREL HAS BEEN DRAWN THROUGH THE CONDUITS, A DUCT BRUSH AND OR SWAB SHALL BE PULLED THROUGH EACH DUCT TO ENSURE THAT THE DUCT INTERIOR IS CLEAN PLACE DUCT PLUGS IN THE ENDS OF EACH CONDUIT.
20. A DETECTABLE PULL TAPE (1800-POUND MIN TENSILE STRENGTH) SHALL BE INSTALLED IN EACH CONDUIT BETWEEN STRUCTURES; PROVIDE 10' SLACK AT EACH END.

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