

ADVANCED LANE DIVIDER
WITH BOLLARD PROTECTION
(OPTIONAL)

DISPENSER CURB ISLAND
WITH BOLLARD PROTECTION

DISPENSER (TYP)

12.4KV UTILITY PRIMARY
METERING EQUIPMENT

PAD MOUNTED
EQUIPMENT (PME-12)
12.47KV FUSIBLE
DISTRIBUTION BAY

3.75MVA
12.47KV-480V
TRANSFORMER

2,500A 480V
65KAIC
SWBD (TYP)

MCS SUPPLY
EQUIPMENT

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EQUIPMENT

FIGURE X ABOVE ILLUSTRATES A HYPOTHETICAL LAYOUT OF FUELING LANES INSTALLED WITH THE MEGAWATT CHARGING SYSTEM (MCS), A SPECIFICATION IN DEVELOPMENT BY THE CHARGING INTERFACE INITIATIVE (CHARIN) FOR COMMERCIAL ELECTRIC VEHICLES. NOTE: MCS SPECIFICATION REQUIRES THAT THE CHARGING DISPENSER BE PLACED ON THE LEFT SIDE OF THE VEHICLE SO THAT THE CONNECTOR CAN BE INSERTED INTO AN INLET LOCATED BEHIND THE DRIVER'S DOOR PLACED AT APPROXIMATELY AT HIP HEIGHT. THE PLACEMENT OF THE CONDUITS AND ELECTRICAL SUPPLY EQUIPMENT, AND TRUCK EGRESS FOR ENTRY TO AND EXIT FROM THE LANE WILL VARY ACROSS DIFFERENT TYPES AND SIZES OF CHARGING STATIONS, WITH AN ILLUSTRATIVE CASE IN APPENDIX Y (FOOTNOTE)

FOOTNOTE: POLLUM, RUSSELL E. BLACK & VEATCH LAYOUTS FOR MCS WORKING GROUP. MAY 5, 2021. CHARGING INTERFACE INITIATIVE (CHARIN) MEGAWATT CHARGING SYSTEM TASK FORCE. PDF DRAWING, 8.5 IN X 11 IN. THESE FIGURES ARE SUBJECT TO COPYRIGHT BY BLACK & VEATCH AND WERE USED WITH EXPRESSED PERMISSION. FOR APPROPRIATE USE PLEASE CONTACT: RUSSELL POLLUM (POLLUMRE@BV.COM) OR PAUL STITH (STITHP@BV.COM)

2' 0 5' 10'

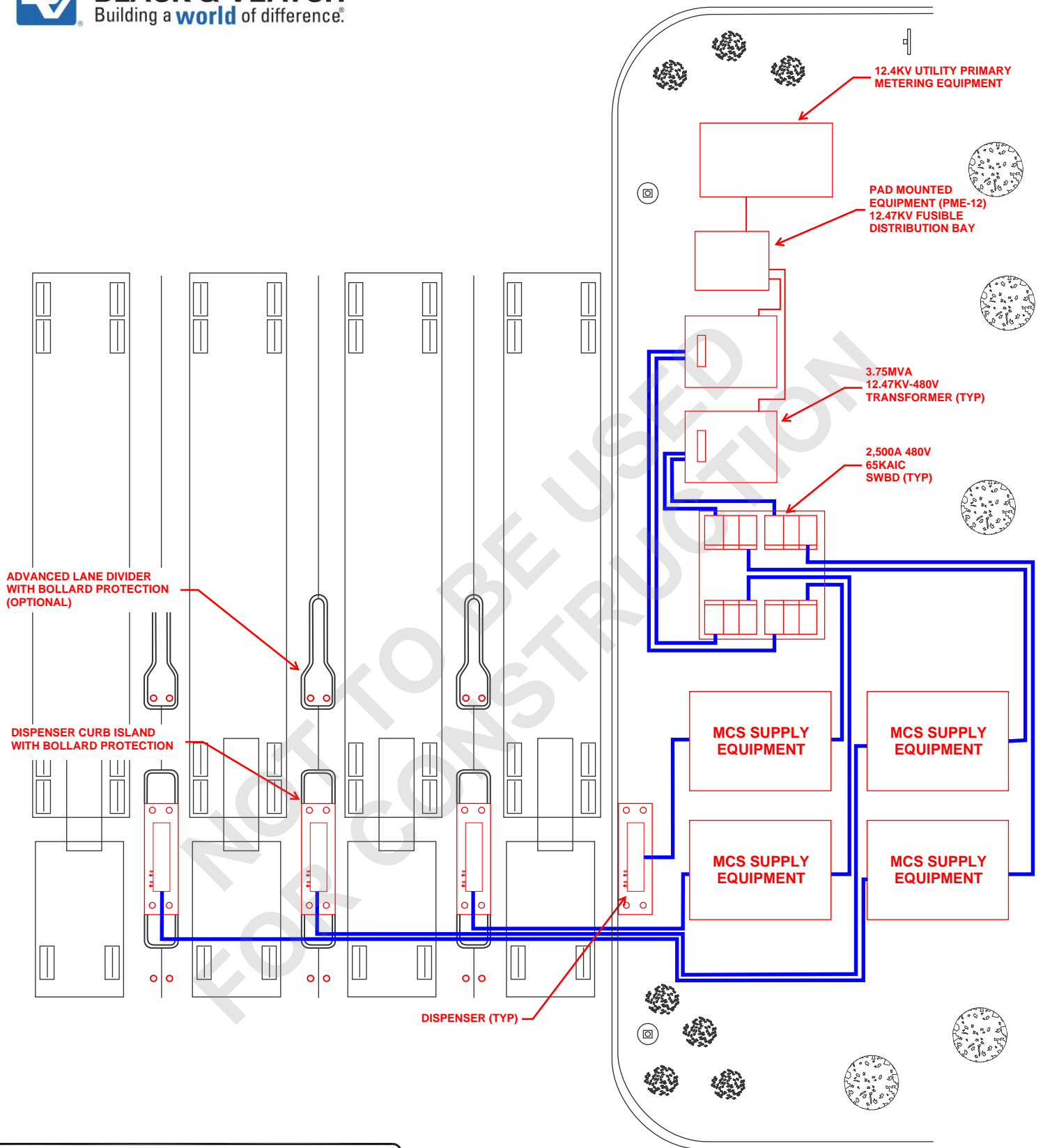
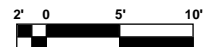


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CONDUIT LAYOUT

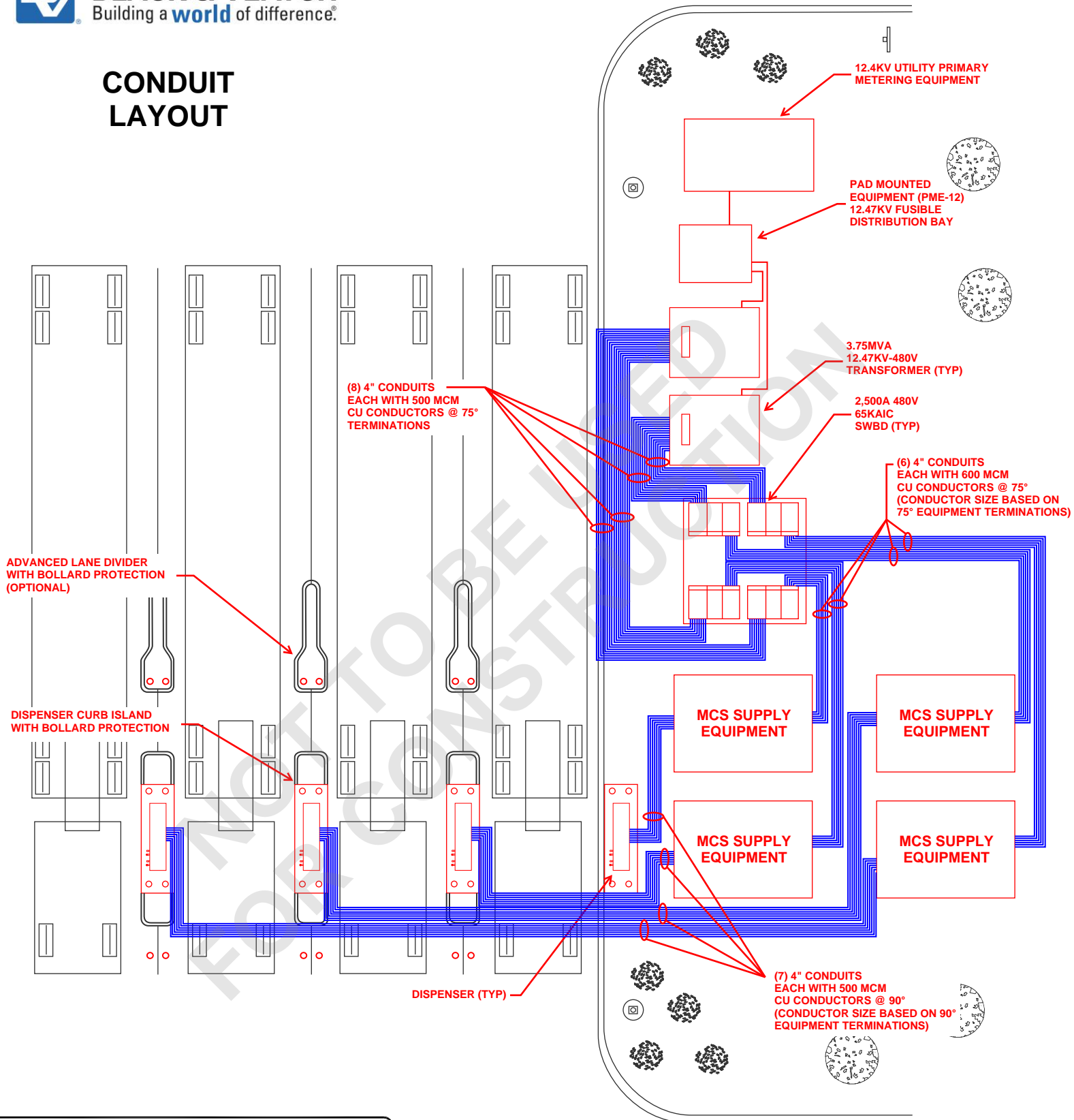
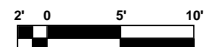
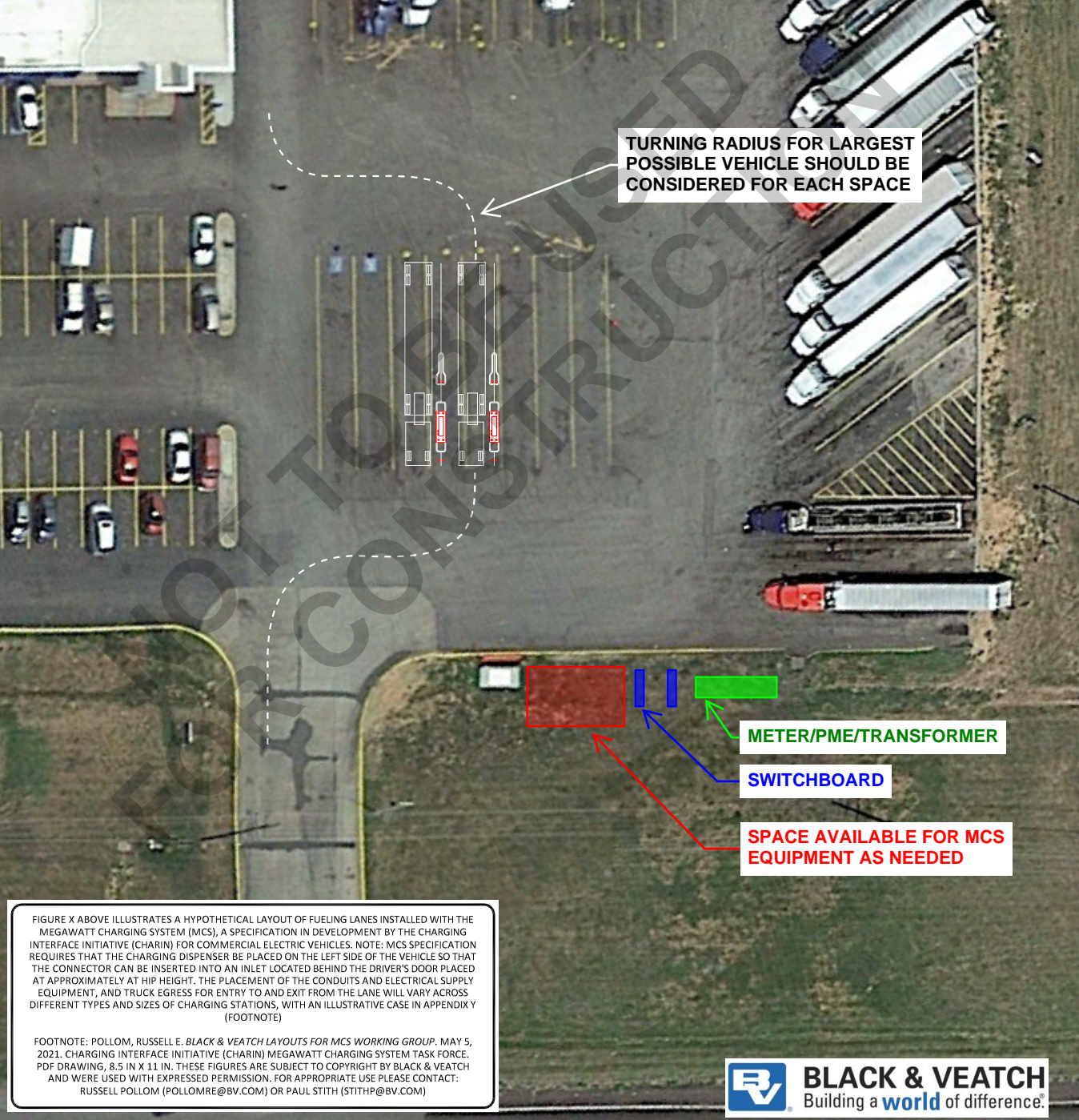


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TURNING RADIUS FOR LARGEST POSSIBLE VEHICLE SHOULD BE CONSIDERED FOR EACH SPACE

METER/PME/TRANSFORMER

SWITCHBOARD

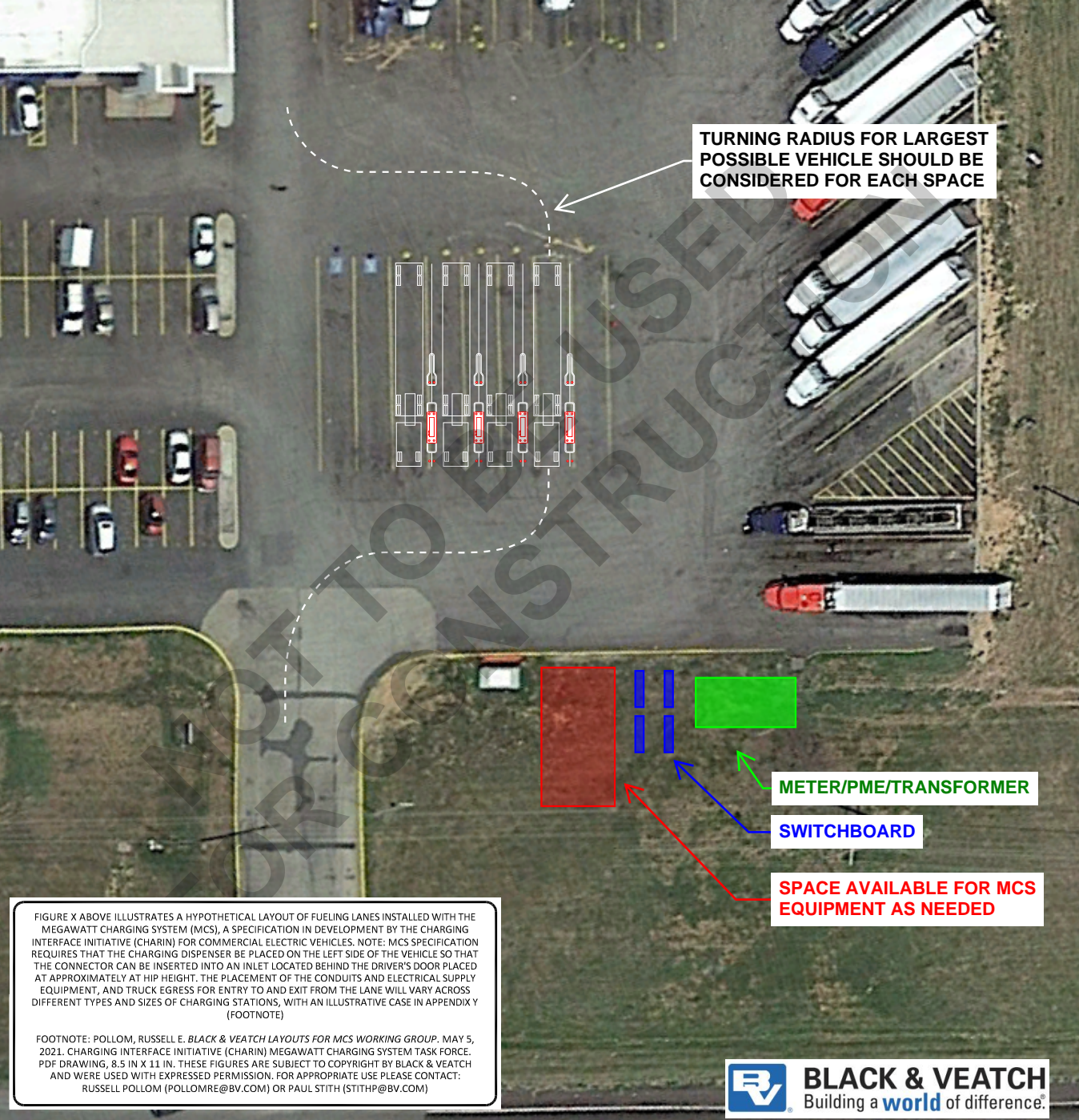
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