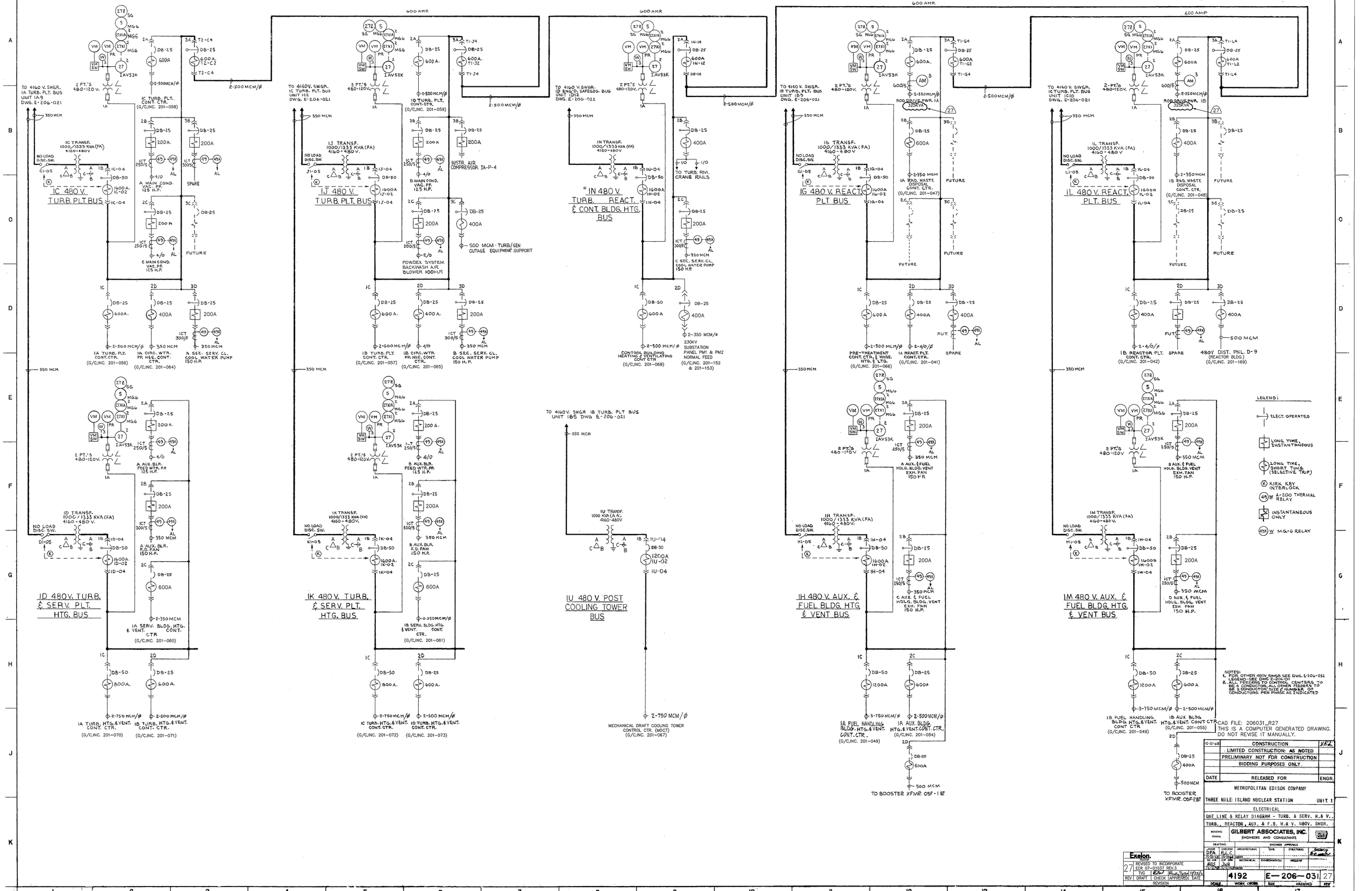
600 AMP.
TO 4160 V. SWGR. 1A TURB. PLT. BUS UNIT 1A.9 DWG. E-206-021
2 PT.'S 480-120 V.
1C TURB. PLT. CONT. CTR. (G/C,INC. 201-058)
2-500 MCM/Ø
1G TRANSF. 1000/1333 KVA (FA) 4160-480 V
NO LOAD DISC. SW.
1G-05
IG 480 V. TURB. PLT BUS
1G-04
1G-02
1600A.
A MAIN COND. VAC. PP. 125 H.P.
SPARE
C MAIN COND. VAC. PP. 125 H.P.
FUTURE
1A TURB. PLT. CONT. CTR. (G/C,INC. 201-056)
1A CIRC. WTR. PP. HSE. CONT. CTR. (G/C,INC. 201-064)
B SEC. SERV. CL. COOL WATER PUMP 150 H.P.
350 MCM
ID TRANSF. 1000/1333 KVA (FA) 4160-480 V.
D1-05
ID 480 V. TURB. & SERV. PLT. HTG. BUS
1D-04
1D-02
A AUX. BLR. FEED WTR. PP 125 H.P.
A AUX. BLR. F.D. FAN 150 H.P.
1A SERV. BLDG. HTG. & VENT. CONT CTR (G/C,INC. 201-060)
1A TURB. HTG. & VENT. CONT. CTR. (G/C,INC. 201-070)
1B TURB. HTG. & VENT. CONT. CTR. (G/C,INC. 201-071)
TO 4160V. SWGR. IC TURB. PLT. BUS UNIT 1E2 DWG. E-206-021
1D TURB. PLT. CONT. CTR. (G/C,INC. 201-059)
IJ TRANSF. 1000/1333 KVA (FA) 4160-480 V.
J1-05
IJ 480 V. TURB. PLT. BUS
1J-04
1J-02
B MAIN COND. VAC. PP. 125 H.P.
500 MCM - TURB/GEN OUTAGE EQUIPMENT SUPPORT
POWDEX SYSTEM BACKWASH AIR BLOWER 100 H.P.
1B TURB. PLT. CONT. CTR. (G/C,INC. 201-057)
1B CIRC. WTR. PP. HSE. CONT. CTR. (G/C,INC. 201-065)
B SEC. SERV. CL. COOL WATER PUMP 150 H. P.
IK TRANSF. 1000/1333 KVA (FA) 4160-480 V.
K1-05
IK 480 V. TURB. & SERV. PLT. HTG. BUS
1K-04
1K-02
A AUX. BLR. F.D. FAN 150 H.P.
B AUX. BLR. F.D. FAN 150 H.P.
1A SERV. BLDG. HTG. & VENT. CONT. CTR. (G/C,INC. 201-060)
1B SERV. BLDG. HTG. & VENT. CONT. CTR. (G/C,INC. 201-061)
IC TURB. HTG. & VENT. CONT. CTR. (G/C,INC. 201-072)
ID TURB. HTG. & VENT. CONT. CTR. (G/C,INC. 201-073)
TO 4160 V. SWGR. ID ENG'D. SAFEGDS. BUS UNIT 1D1S DWG. E-206-022
IN TRANSF. 1000/1333 KVA (FA) 4160-480 V
IN 480 V. TURB. REACT. & CONT. BLDG. HTG. BUS
1N-04
1N-02
1600A
TO TURB. RTV. CRANE RAILS
C SEC. SERV. CL. COOL WATER PUMP 150 H.P.
CONTROL BUILDING HEATING & VENTILATING CONT CTR (G/C,INC. 201-068)
230KV SUBSTATION PANEL PM1 & PM2 NORMAL FEED (G/C,INC. 201-152 & 201-153)
TO 4160V. SWGR 1B TURB. PLT BUS UNIT 1B5 DWG E-206-021
IU TRANSF. 1000 KVA (A.A.) 4160-480V
IU 480 V. POST COOLING TOWER BUS
1U-04
1U-02
1200A
MECHANICAL DRAFT COOLING TOWER CONTROL CTR. (MCT) (G/C,INC. 201-067)
TO 4160 V. SWGR. IB TURB. PLT. BUS UNIT 1B5 DWG. E-206-021
IH TRANSF. 1000/1333 KVA (FA) 4160-480 V.
H1-05
IH 480 V. AUX. & FUEL BLDG. HTG. & VENT BUS
1H-04
1H-02
C AUX. & FUEL HOLDG. BLDG. VENT EXH. FAN 150 H.P.
PRE-TREATMENT CONT. CTR. & WHSE. HTG. & VTG. (G/C,INC. 201-066)
1A REACT. PLT. CONT. CTR. (G/C,INC. 201-041)
1A FUEL HANDLING BLDG. HTG. & VENT. CONT. CTR. (G/C,INC. 201-049)
1A AUX. BLDG. HTG. & VENT. CONT. CTR. (G/C,INC. 201-054)
TO BOOSTER XFMR. 05F-1ST
TO 4160 V. SWGR. IC TURB. PLT. BUS UNIT 1C10 DWG. E-206-021
IL TRANSF. 1000/1333 KVA (FA) 4160-480 V.
L1-05
IL 480 V. REACT. PLT. BUS
1L-04
1L-02
2-350 MCM
1A RAD. WASTE DISPOSAL CONT. CTR. (G/C,INC. 201-047)
1B RAD. WASTE DISPOSAL CONT. CTR. (G/C,INC. 201-048)
1B REACTOR PLT. CONT. CTR. (G/C,INC. 201-042)
480V DIST. PNL. D-9 (REACTOR BLDG.) (G/C,INC. 201-169)
IM TRANSF. 1000/1333 KVA (FA) 4160-480 V.
M1-05
IM 480 V. AUX. & FUEL BLDG. HTG. & VENT BUS
1M-04
1M-02
D AUX. & FUEL HOLG. BLDG. VENT EXH. FAN 150 H.P.
1B FUEL HANDLING BLDG. HTG. & VENT. CONT CTR (G/C,INC. 201-049)
1B AUX. BLDG. HTG. & VENT. CONT CTR. (G/C,INC. 201-055)
TO BOOSTER XFMR. 05F-2ST
LEGEND:
ELECT. OPERATED
LONG TIME, INSTANTANEOUS
LONG TIME, SHORT TIME (SELECTIVE TRIP)
(K) KIRK KEY INTERLOCK
(49) W A-200 THERMAL RELAY
(49X) W M.G.-6 RELAY
NOTES:
1. FOR OTHER 480V SWGR SEE DWG. E-206-031 LEGEND-SEE DWG E-206-011
2. ALL FEEDERS TO CONTROL CENTERS TO BE 4 CONDUCTOR, ALL OTHER FEEDERS TO BE 3 CONDUCTOR. SIZE & NUMBER OF CONDUCTORS PER PHASE AS INDICATED
CAD FILE: 206031_R27
THIS IS A COMPUTER GENERATED DRAWING. DO NOT REVISE IT MANUALLY.
12-12-08 CONSTRUCTION
LIMITED CONSTRUCTION: AS NOTED
PRELIMINARY NOT FOR CONSTRUCTION
BIDDING PURPOSES ONLY.
DATE RELEASED FOR ENGR.
METROPOLITAN EDISON COMPANY
THREE MILE ISLAND NUCLEAR STATION UNIT 1
ELECTRICAL
ONE LINE & RELAY DIAGRAM - TURB. & SERV. H.& V., TURB., REACTOR, AUX. & F.B. H.& V. 480V. SWGR.
GILBERT ASSOCIATES, INC. ENGINEERS AND CONSULTANTS
Exelon.
27 REVISED TO INCORPORATE ECR 07-01037 REV.3 TVG RKV 16 Sept 11 24
REV DRAFT CHECK APPROVED DATE
REVISION
4192 E-206-031 27
SCALE WORK ORDER SIZE DRAWING REV