

SCHEDULE OF TRANSFORMERS (TOWSON ARENA)								
TRANSFORMER DESIG.	KVA	LOCATION	PRIMARY FEEDER	SECONDARY TAP TO OVERCURRENT PROTECTIVE DEVICE (NOTE B)	GROUNDING ELECTRODE CONDUCTOR	EQUIPMENT SERVED	XFMR TYPE	NOTES
TRP1	225	ELEC. RM 116	SWB-12	TWO SETS (4 #000 + #200G IN 3" C)	#20	PANEL DP1	STD	NOTE 1
TDCSP	225	ELEC. RM 116	SWB-13	TWO SETS (4 #000 + #200G IN 3" C)	#20	PANEL DCSF	STD	NOTE 1
TRMP1	30	MECH. CHILLER 151	MP1-60	4 #2 + #8G IN 1-1/4" C	#8	PANEL MRP1	STD	NOTE 1
TRSP1	15	ELEC. RM 116	EP1-37	4 #6 + #8G IN 1" C	#8	PANEL ERP1	STD	NOTE 1
TRSP1	30	ELEC. RM 116	SP1-26	4 #2 + #8G IN 1-1/4" C	#8	PANEL SRP1	STD	NOTE 1
TRP2	75	ELEC. RM 246	LP2-37	4 #40 + #2G IN 3" C	#2	PANEL RP2	STD	NOTE 1
TRP2B	75	ELEC. RM 227	LP2A-38	4 #20 + #2G IN 3" C	#2	PANEL RP2B	STD	NOTE 1
TRP3A	30	MECH. RM 325	MP3-38	4 #2 + #8G IN 1-1/4" C	#8	PANEL RPSA	STD	NOTE 1
TRP4	112.5	ABOVE SKYBOX	LP4-37	4 #200 + #10G - 4" C	#10	PANEL RPA	STD	NOTE 1
TRP4A	75	CATWALK	LP4-31	4 #200 + #2G IN 3" C	#2	PANEL RPA4	STD	NOTE 1
TRCT	15	SERVICE YARD	MCT-26	4 #8 + #8G IN 1" C	#8	PANEL RCT	STD	NOTES 1 & 2

TRANSFORMER GENERAL NOTES:  
A. TRANSFORMER TYPES: STANDARD NEMA TP-1 ENERGY EFFICIENT TRANSFORMER (STD); HARMONIC MITIGATING TRANSFORMER (HMT).  
B. TRANSFORMER SECONDARY TAP CONDUCTORS INDICATED REFLECT PHASE, NEUTRAL, AND SYSTEM BONDING JUMPER IN ACCORDANCE WITH ARTICLE 450 AND 250.30.  
TRANSFORMER NOTES:  
1. TRANSFORMER SHALL HAVE 480-VOLT, 3-PHASE, DELTA PRIMARY AND 120/208-VOLT, 3-PHASE, WYE-GROUNDED SECONDARY.  
2. PROVIDE TRANSFORMER IN NEMA TYPE 3R ENCLOSURE.

SCHEDULE OF TRANSFORMERS (TOWSON CENTER)								
TRANSFORMER DESIG.	KVA	LOCATION	PRIMARY FEEDER	SECONDARY TAP TO OVERCURRENT PROTECTIVE DEVICE (NOTE B)	GROUNDING ELECTRODE CONDUCTOR	EQUIPMENT SERVED	XFMR TYPE	NOTES
TDR	225	EX. MECH. X1097	SB1-1	TWO SETS (4 #50 + #20G IN 3" C)	#20	PANEL DR	STD	NOTE 1
TER1	15	MECH. RM X1101	E1-26	4 #8 + #8G IN 1" C	#8	PANEL ER1	STD	NOTE 1
TSR1	30	MECH. RM X1101	SP1-26	4 #2 + #8G IN 1-1/4" C	#8	PANEL SR1	STD	NOTE 1
TRIC	112.5	EX. ELEC. X1050	L1C-38	4 #200 + #10G - 4" C	#10	PANEL RC	STD	NOTE 1
TR2	30	2ND FLR. MECH.	L2-26	4 #2 + #8G IN 1-1/4" C	#8	PANEL R2	STD	NOTE 1

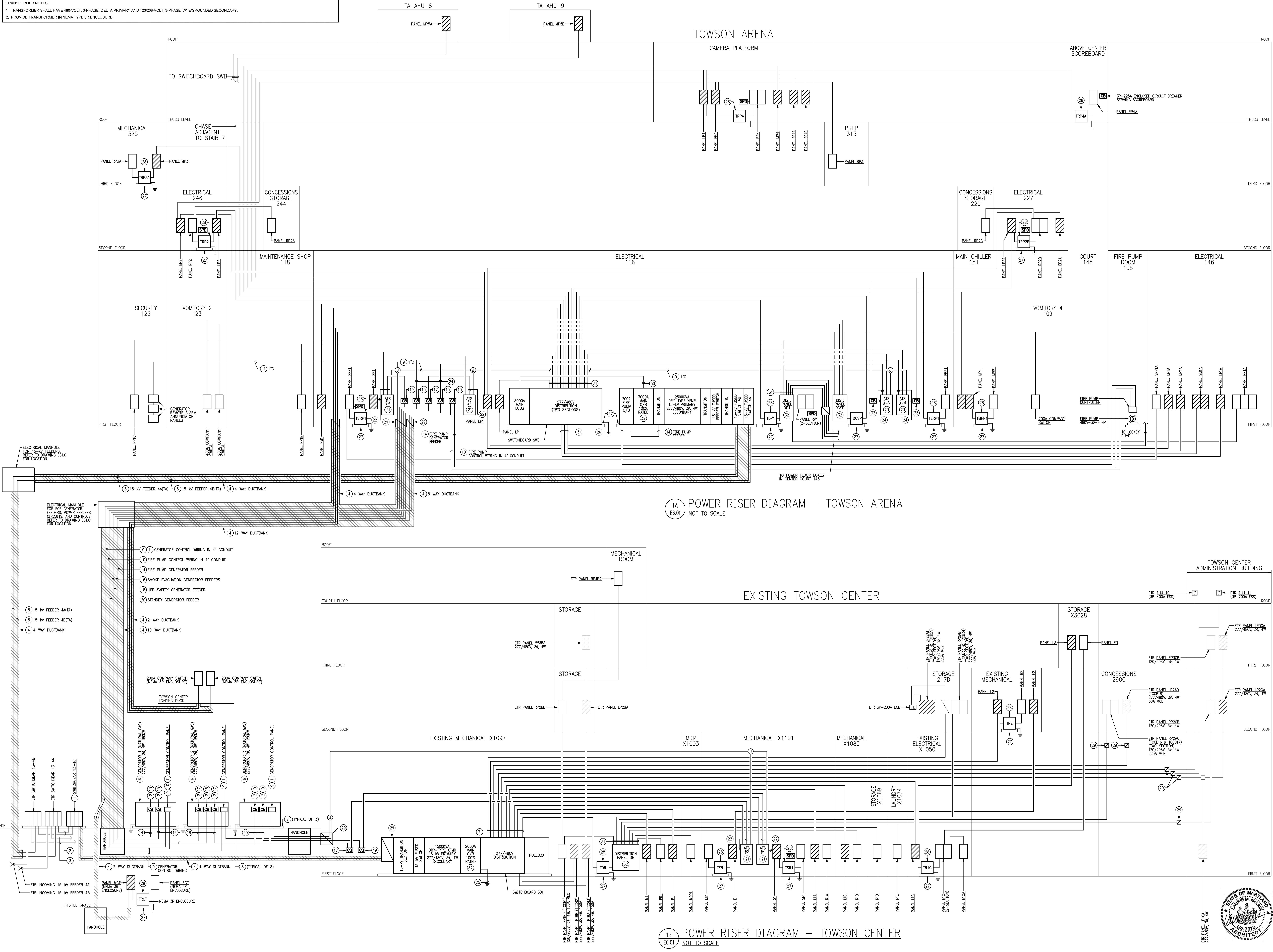
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GENERAL NOTES:

- INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM ANALYSIS OF BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. OBTAINING EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK, SHOULD BE CONSIDERED NECESSARY TO VERIFY THE ACCURACY OF THE WORK AS INDICATED IMMEDIATELY UPON THE ARCHITECT'S VISITING AND AVOID DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
- REFER TO DETAIL 13/ES.01 FOR GENERATOR GROUNDING.
- PROVIDE GENERATOR CONTROL WIRING IN CONDUIT BETWEEN GENERATOR CONTROL PANEL AND ASSOCIATED AUTOMATIC TRANSFER SWITCHES. MAKE ALL CONNECTIONS NECESSARY FOR COMPLETE INSTALLATION. GENERATOR CONTROL WIRING SHALL BE AS PER GENERATOR MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE CONTROL WIRING IN CONDUIT BETWEEN GENERATOR CONTROL PANEL AND FIRE PUMP CONTROLLER. MAKE ALL CONNECTIONS NECESSARY FOR COMPLETE INSTALLATION. CONTROL WIRING SHALL BE AS PER GENERATOR MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE WIRING IN CONDUIT FROM GENERATOR CONTROL PANEL TO EACH FEEDER FROM SWITCHGEAR 13-4A AND 13-4B, RESPECTIVELY, TWO SWITCHGEAR 13-4C. REFER TO DRAWING E6.00 FOR CONNECTIONS AND ADDITIONAL INFORMATION.
- EXISTING TO REMAIN UNDERGROUND 15-KV ELECTRICAL FEEDERS SERVING LANDSCAPE SERVICES/TONES CONTROL.
- PROVIDE CONCRETE-ENCASED OUTCANK. REFER TO DETAILS 1/ES.01 THROUGH 1/ES.01 FOR ADDITIONAL INFORMATION. REFER TO DRAWING E5.01 FOR ROUTING OF OUTCANKS.
- REFER TO 15-KV ONE-LINE DIAGRAM ON DRAWING E6.00 FOR ADDITIONAL INFORMATION ON 15-KV ELECTRICAL FEEDERS.
- PROVIDE TYPE 10 GENERATOR PER VITA 110. THE GENERATOR SHALL BE ABLE TO PROVIDE GENERATOR POWER WITHIN 10-SECONDS AFTER A UTILITY POWER OUTAGE (TYPE 10).
- PROVIDE GENERATOR CONCRETE PAD. REFER TO DETAIL 12/ES.01 FOR ADDITIONAL INFORMATION.
- REFER TO DETAIL 13/ES.01 FOR GENERATOR GROUNDING.
- PROVIDE 3P-100A SERVICE ENTRANCE RATED ENCLOSED CIRCUIT BREAKER TO SERVE STANDBY PANELBOARDS FOR STANDBY LOADS.
- PROVIDE 4 #1/0 + #6 GROUND IN 4" CONDUIT.
- PROVIDE 4P-125A AUTOMATIC TRANSFER SWITCH.
- PROVIDE 4P-125A AUTOMATIC TRANSFER SWITCH.
- PROVIDE 4 #1/0 + #6 GROUND IN 2" CONDUIT.
- PROVIDE #3/0 GROUND AND CONNECT TO EXISTING GROUND GRID.
- REFER TO DETAIL 1/ES.02 FOR GROUNDING CONNECTIONS AT SWITCHBOARD.
- PROVIDE 4" HIGH CONCRETE HOUSEKEEPING PAD.
- REFER TO TRANSFORMER SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
- PROVIDE 3 #8 + #10 GROUND IN 4" CONDUIT.
- PROVIDE 3P-150A SERVICE ENTRANCE RATED ENCLOSED CIRCUIT BREAKER TO SERVE PANELBOARD FOR SMOKE EVACUATION FANS.
- PROVIDE 4 #1/0 + #6 GROUND IN 4" CONDUIT.
- PROVIDE 3P-125A SERVICE ENTRANCE RATED ENCLOSED CIRCUIT BREAKER TO SERVE EMERGENCY PANELBOARD FOR LIFE-SAFETY LOADS.
- PROVIDE POWER MONITORS FOR EQUIPMENT AS NOTED. PROVIDE CIRCUIT TRANSFORMER, POTENTIAL TRANSFORMERS, AND WIRING NECESSARY FOR COMPLETE INSTALLATION. PROVIDE WIRING IN CONDUIT FROM POWER MONITOR TO NEAREST AUTOMATIC TEMPERATURE CONTROL (ATC) TEMPERATURE MANAGEMENT SYSTEM (TMS) CONTROL PANEL. ASSUME 100 LINEAR FEET. WIRING SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE 3P-100A ENCLOSED CIRCUIT BREAKER.

SPECIFIC NOTES:

- PROVIDE PAD MOUNTED SWITCHGEAR 13-4C BY SAG, MODEL PWH-3.
- PROVIDE TWO ELECTRICAL FEEDERS (3 #70 #50) 15-KV CABLE FOR EACH FEEDER FROM SWITCHGEAR 13-4A AND 13-4B, RESPECTIVELY, TWO SWITCHGEAR 13-4C. REFER TO DRAWING E6.00 FOR CONNECTIONS AND ADDITIONAL INFORMATION.
- REFER TO 15-KV ONE-LINE DIAGRAM ON DRAWING E6.00 FOR ADDITIONAL INFORMATION ON 15-KV ELECTRICAL FEEDERS.
- PROVIDE TYPE 10 GENERATOR PER VITA 110. THE GENERATOR SHALL BE ABLE TO PROVIDE GENERATOR POWER WITHIN 10-SECONDS AFTER A UTILITY POWER OUTAGE (TYPE 10).
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1A POWER RISER DIAGRAM - TOWSON ARENA  
E6.01 NOT TO SCALE

1B POWER RISER DIAGRAM - TOWSON CENTER  
E6.01 NOT TO SCALE

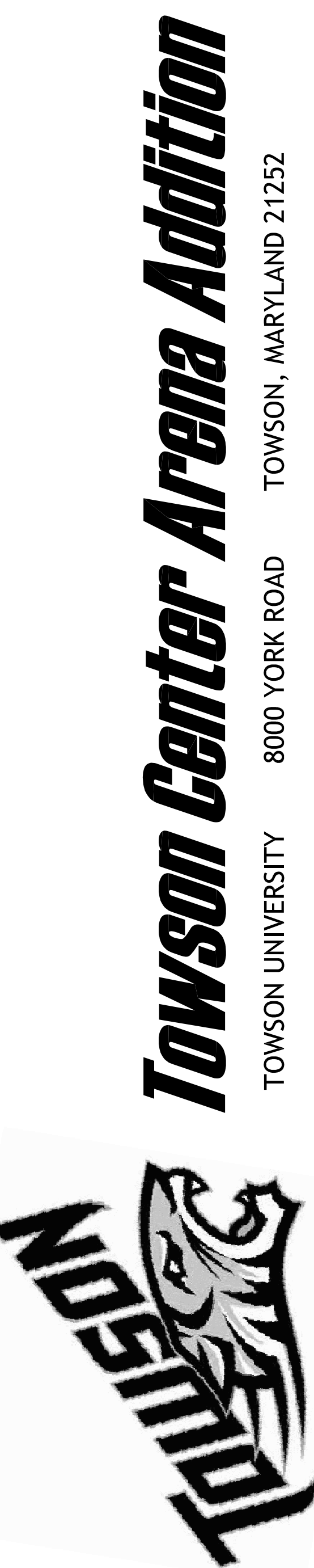
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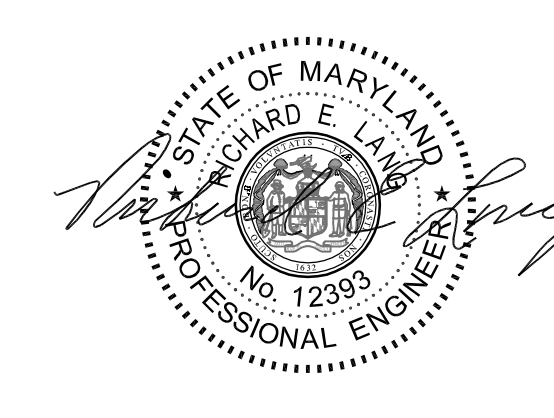
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**Towson Center Arena Addition**  
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hord | coplan | macht

ARCHITECTURE  
LANDSCAPE ARCHITECTURE  
PLANNING  
INTERIOR DESIGN



Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland, License No. 12393, Expiration date: 04-20-2013.

no. date revision  
Project Name  
TOWSON CENTER ARENA ADDITION  
Project Number  
94711.00  
Date  
07.08.2011  
Scale  
NONE  
Drawing

ELECTRICAL DIAGRAMS

E6.01  
CONSTRUCTION DOCUMENTS