

GENERAL NOTES:
 TRANSFORMER ENCLOSURE & N.W.P. COMPARTMENTS TO BE CLEAR OF ALL FOREIGN PIPING.
 ITEMS MARKED "SEE LAYOUT", "BY CUSTOMER" OR "BY COMPANY" SHALL BE EXCLUDED BY CONTRACTOR.
 CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD.

CUSTOMER TO MAINTAIN ADEQUATE LANE TO TRANSFORMER ENCLOSURE FOR INSTALLATION AND REMOVAL OF EQUIPMENT.
 ALL UNUSED OPENINGS AND CONDUITS TO BE SEALED.

CUSTOMER TO REMOVE, RELOCATE, OR REROUTE AT HIS EXPENSE, ALL PIPES, CONDUITS, MATERIALS AND EQUIPMENT FROM SPACE TO BE OCCUPIED BY N.W.P. COMPT'S AND TRANSFORMER ENCLOSURES OR INTERFERING WITH THEIR CONSTRUCTION.
 NO METAL DECKING WITHIN NETWORK COMPARTMENT AREA.

THE COMPANY SHALL NOT INSTALL EQUIPMENT IN THE N.W.P. COMPT'S, BEFORE WATERPROOFING AND 2" THICK CEMENT MORTAR PROTECTIVE COAT FINISH HAS BEEN INSTALLED ON ROOF SLAB OF THE COMPARTMENTS.
 A WATERPROOF TEST MUST BE PERFORMED AND WITNESSED BY A COMPANY-AUTHORIZED REPRESENTATIVE.

ALL FORMS AND BRACING USED IN CONSTRUCTION OF VAULTS TO BE REMOVED BY VAULT CONTRACTOR UNLESS OTHERWISE NOTED.

ALL EXTERIOR DOORS OF TRANSF. & N.W.P. COMPT'S, TO BE ACCESSIBLE AT ALL TIMES.

SERVICE CONNECTION NOTES:
 CUSTOMER SHALL WIRE TO THESE SERVICE CONNECTIONS.

CAPACITY OF ANY ONE SERVICE CONNECTION IS LIMITED TO AMPERES PER PHASE PER HOUR DEMAND.
 CAPACITY OF INSTALLATION IS LIMITED TO AMPERES PER PHASE PER HOUR DEMAND.

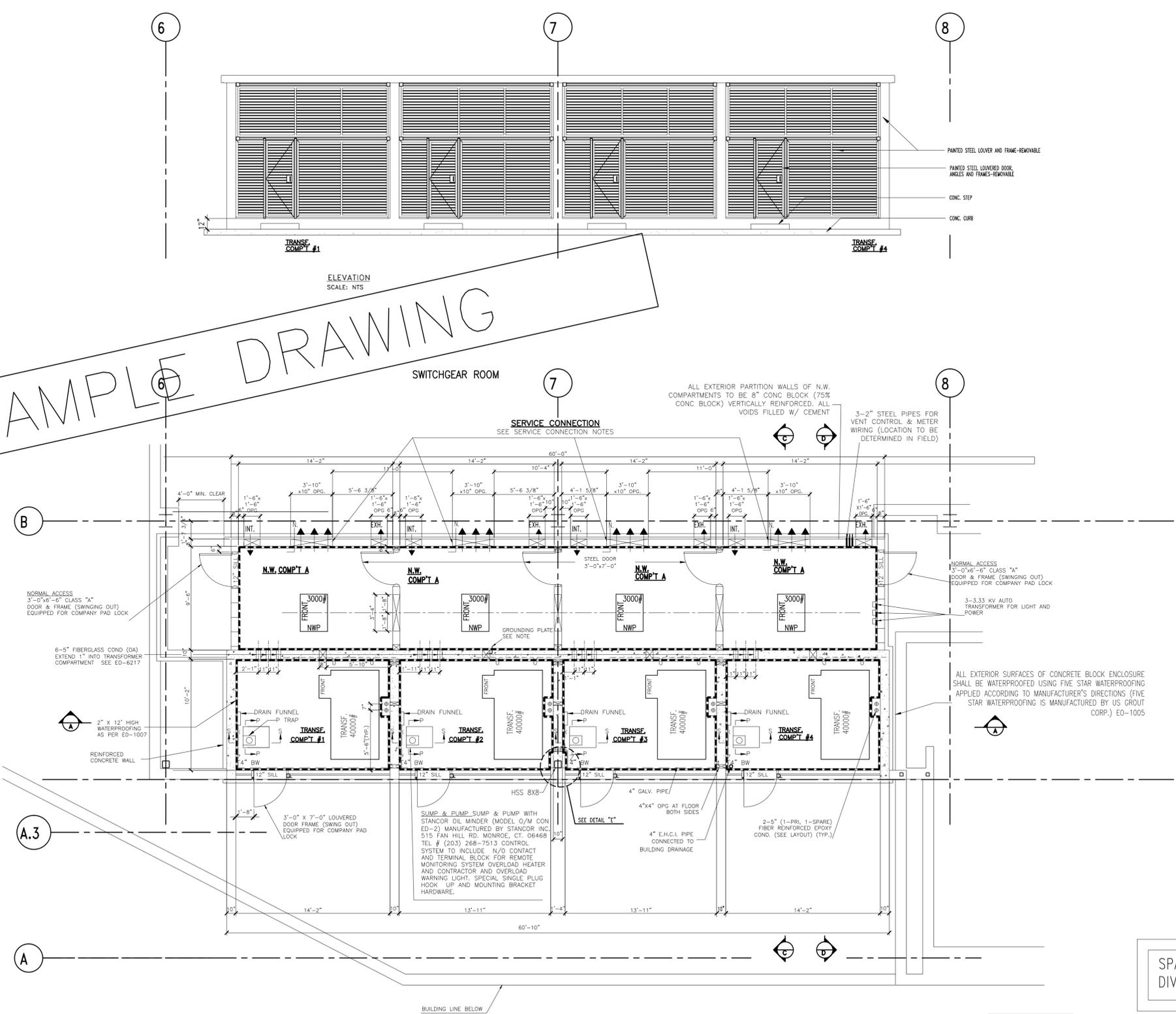
THE COMPANY'S RATE SCHEDULE PROVIDES THAT THE CUSTOMER SHALL GIVE THE COMPANY REASONABLE ADVANCE NOTICE OF INTENTION MATERIALLY TO INCREASE HIS LOAD IN THE FUTURE SO THAT ADEQUATE FACILITIES MAY BE PROVIDED.

EQUIPMENT: (SEE DIVISION OF RESPONSIBILITY)
 -2500KVA 27 KV 3Ø 265/460V SILICONE TRANSFORMERS PROVIDED.
 -2500KVA 277/480V NWP & FRAMES

PLUMBING MATERIAL
 DRAIN FUNNEL
 4" E.H.C.I. PIPE
 2" GALVANIZED PIPE
 4" CHECK VALVE
 4" PIPE TRAP I.S. SIMMONS SP216 OR EQUAL
 SEE EO-13027-B FOR ADDITIONAL MATERIAL

- REFERENCE DRAWINGS**
- SECTIONS** _____
DETAILS _____
DIVISION OF RESPONSIBILITY _____
REINFORCEMENT DETAILS _____
- LOUVERED DOOR AND FRAMES EO-4552-A REV 13
 - FIBERGLASS CONDUITS PURCH. SPEC. EO-100,628
 - 3'-0" X 7'-0" STEEL DOOR EO-16448-A
 - 3'-0" X 7'-0" LOUVERED STL DOOR EO-16448-A
 - 3'-0" X 7'-0" FRAME EO-16447-A (METHOD #1 & 2)
 - LATCHING INSTALLATION & DETAILS EO-16450-A
 - HINGE STRAP & PINTEL EO-5494-C
 - PANELS & SCREENS EO-1191
 - PAINTING OF N.W.P. COMPT'S SPEC. EO-100,184
 - PURCH SPEC. EO-1005
 - WATERPROOF OF ROOF SLAB SPEC. EO-1007
 - METHOD OF SEALING EO-6217-C
 - CONDUIT & CABLES EO-13712-B
 - LIGHT & POWER OUTLET WIRING CEMENT MORTAR SPEC. EO-100,167
 - WATERPROOFING OF CONCRETE BLOCK SPEC. EO-1005
 - SUMP FRAME & COVER EO-3393-D
 - INSTALLATION OF SUMP PUMP WIRING DIAGRAM EO-12160-C
- PHYSICAL TRANSFORMER CONNECTIONS & N.W.P. INSTALL.
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SAMPLE DRAWING

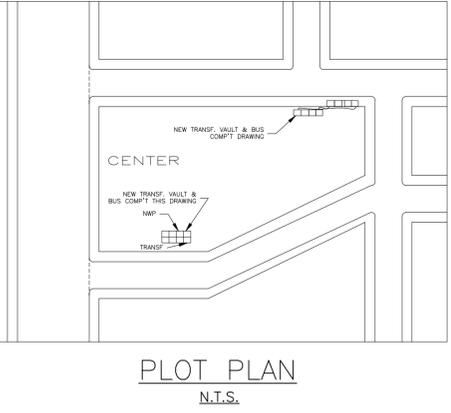


TRANSFORMER ENCLOSURE AT GRADE
 SCALE: NTS

THE CONTRACTOR SHALL SUBMIT CONCRETE MIX AND REINFORCEMENT SHOP DRAWINGS FOR CON EDISON REVIEW AND APPROVAL

REFERENCE DWGS:
 SECTIONS _____
 DETAILS _____

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED
 DO NOT SCALE THIS DWG. USE DIMENSIONS AS SHOWN



REVISIONS

- NOTE:**
- CUSTOMER TO SUBMIT TO THE COMPANY THE FOLLOWING VENTILATION INFORMATION:
 - LOCATION OF THE VENTILATION CONTROLS INDICATE WHICH TAKE-OFF IS SOURCE OF SUPPLY.
 - SUPERVISORY PERSONNEL TO CONTACT DURING NORMAL WORKING HOURS AND NON-WORKING FOR EMERGENCIES.
 - THE CUSTOMER SHALL BE RESPONSIBLE FOR THE CORRECTION OF ANY FUTURE WATER OR MOISTURE PROBLEMS THROUGH WALLS, CONDUITS, CEILING OR FLOOR IN N.W. COMPARTMENT SHOULD THEY OCCUR. ANY CORRECTIVE METHODS ARE TO BE COMPLETED IN ACCORDANCE WITH ESTABLISHED COMPANY METHODS AND UNDER THE DIRECTION OF THE COMPANY REPRESENTATIVE.
 - THE WATERSTOP SHALL BE INSTALLED IN ALL CONSTRUCTION JOINTS IN N.W. & TRANSF. COMPARTMENTS AREA.
 - CUSTOMER TO PROVIDE AND MAINTAIN A 4'-0" MINIMUM CLEAR PASSAGEWAY AROUND BLDG. FOR THE INSTALLATION AND REPLACEMENT OF EQUIPMENT.
 - NO METAL DECKING WITHIN THE NETWORK COMPARTMENT AREA.
 - ALL FORMS AND BRACING USED IN CONSTRUCTION OF VAULT TO BE REMOVED BY VAULT CONTRACTOR UNLESS OTHERWISE NOTED.
 - CUSTOMER TO FURNISH A METHOD OF CONNECTING NEUTRAL BUS TO BUILDING STEEL WITHIN N.W. PROTECTOR COMPARTMENT. THE NUMBER OF PLATES REQUIRED DEPEND ON THE RESISTANCE TO GROUND MEASUREMENT WHICH MUST BE 10 OHMS OR LESS.

- NETWORK PROTECTOR COMPT.**
- ONE OUTSIDE DOOR OF THE NETWORK PROTECTOR COMPARTMENT SHALL BE OPEN TO A PUBLIC AREA. OTHER OUTSIDE DOOR MUST BE ACCESSIBLE AT ALL TIMES. AS PART OF VAULT CONSTRUCTION THE FLOORS, WALLS AND CEILINGS ARE TO BE PAINTED IN ACCORDANCE WITH SPEC. EO-1191. AFTER EQUIPMENT HAS BEEN INSTALLED, THE COMPANY IS TO REPAIR DAMAGED FLOORS, WALLS AND CEILING PAINT, IN ACCORDANCE WITH SPEC. EO-1191.
 - CUSTOMER & CONTRACTOR TO PROVIDE CONDUIT OPENING IN WALLS OR FLOOR AS SHOWN. REINFORCING BARS SHALL CLEAR ALL CONDUIT OPENINGS BY 4" MINIMUM ON ALL SIDES. OMIT BARS WITHIN OPENINGS.
 - FLANGES OF ALL STEEL BEAMS SHALL CLEAR SERVICE CONNECTION OPENINGS BY 8" MINIMUM.
 - REINFORCING BARS SHALL CLEAR PARALLEL BUS OPENINGS AND SERVICE CONNECTION OPENINGS BY 4" MINIMUM ON ALL SIDES.
 - ALL BUILDING STEEL IN NETWORK PROTECTOR COMPARTMENT SHALL BE ENCASED IN A MINIMUM 2" CONCRETE PROTECTION BY CUSTOMER.
 - CUSTOMER SHALL REMOVE ALL CONCRETE FORMS IN NETWORK PROTECTOR COMPARTMENT AREA PRIOR TO CONSTRUCTION BY OTHERS.
- NOTE:**
 THE SEWER CONNECTION TO BE LOCATED ACCORDINGLY.
- GROUNDING PLATE NOTE:**
 AS PART OF VAULT CONSTRUCTION CONTRACTOR TO INSTALL 6"x1/2" STEEL PLATE WITH 2-7/16" DIA. HOLES 1 1/8" O.C. EXTENDED 4" INTO COMPT. WELDED TO REINFORCED BARS. THE NUMBER OF PLATES REQUIRED DEPENDS ON THE RESISTANCE TO GROUND MEASUREMENT WHICH MUST BE 10 OHMS OR LESS.

SPACE ALLOCATION AND DIVISION OF RESPONSIBILITY

NO FLY-ASH

NO FORM TIES ALLOWED

4-460-WB-ROOF-TNT-P

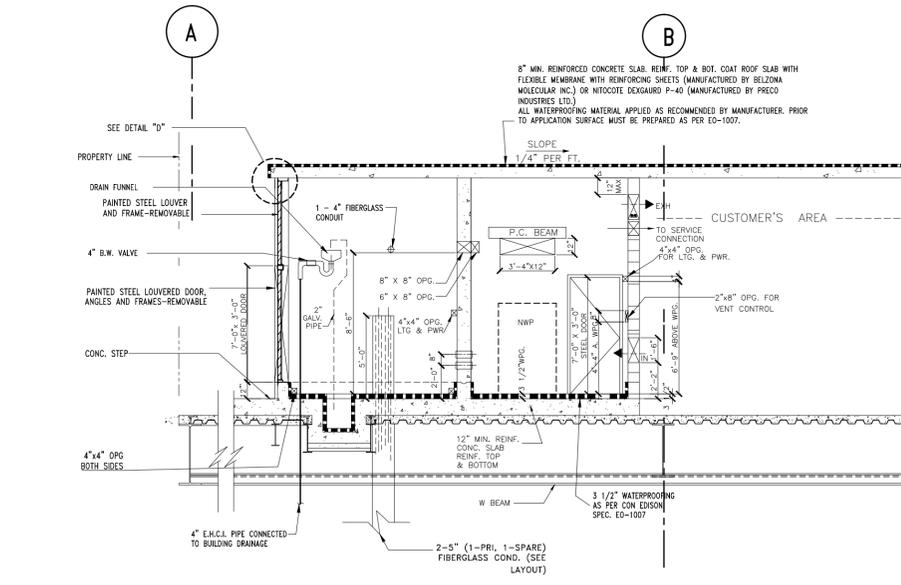
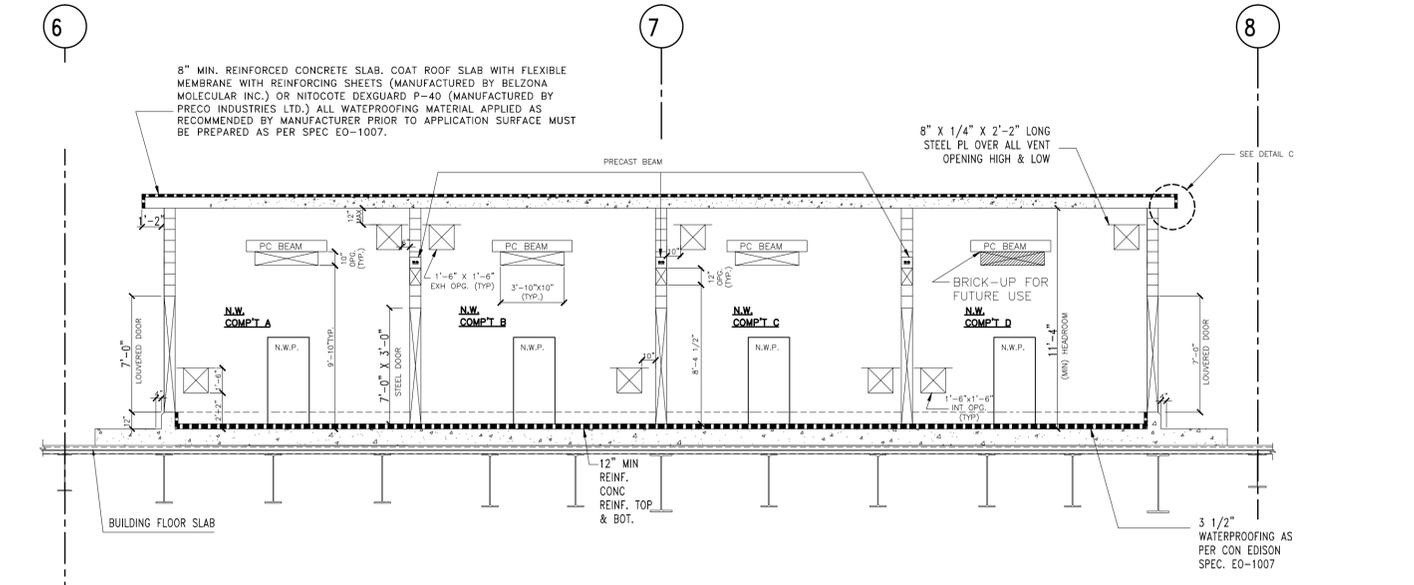
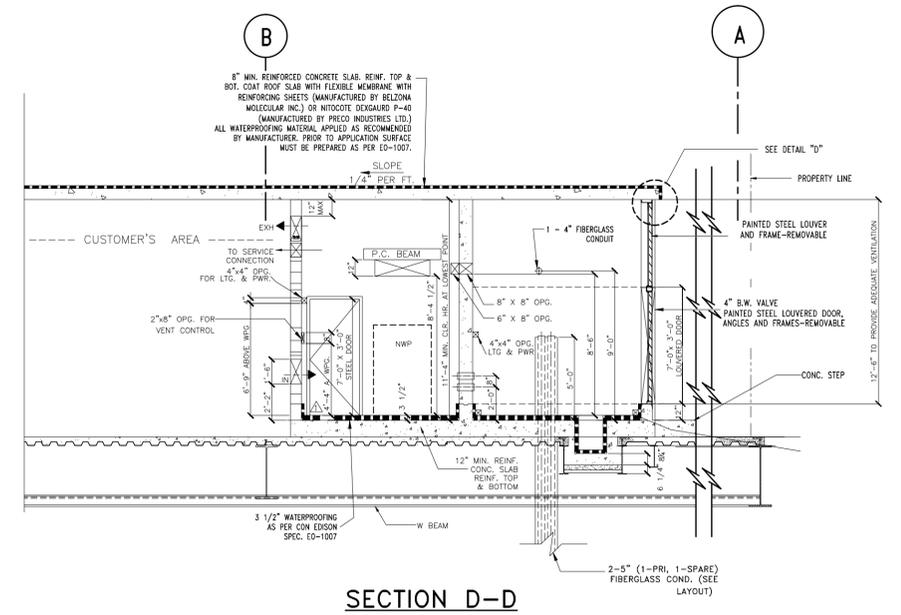
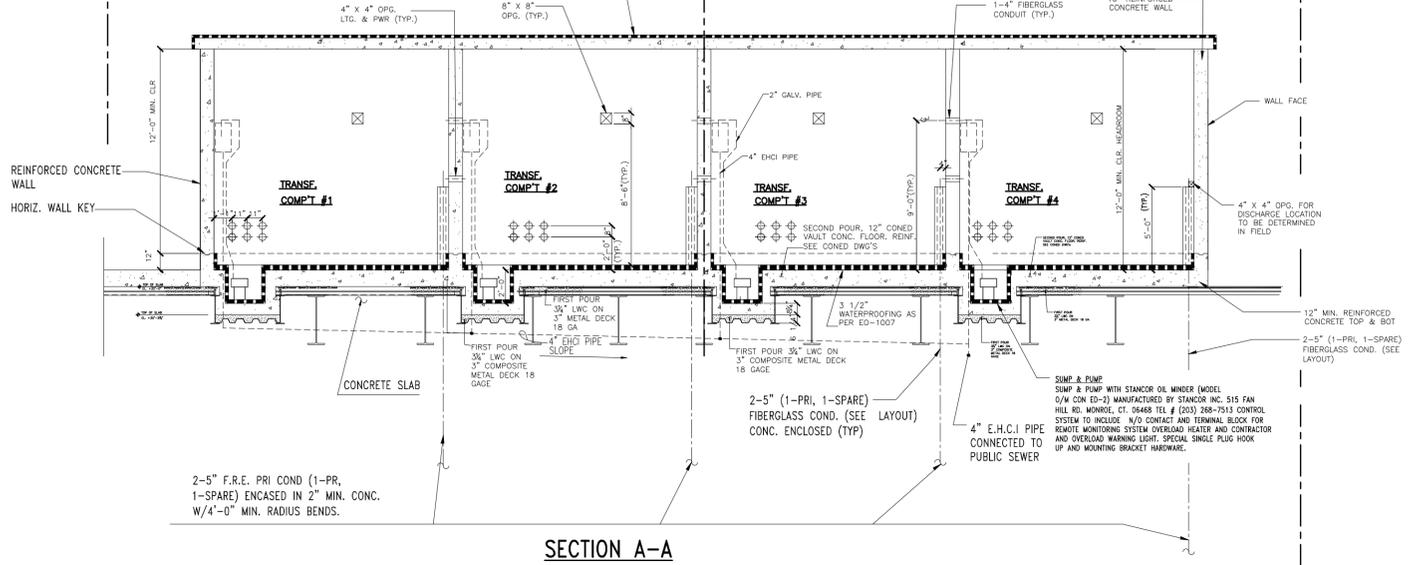
CONSOLIDATED EDISON CO.
 OF NEW YORK, INC.

TRANSFORMER VAULT LAYOUT AT
 ROOF INSIDE PROPERTY LINE 265/460V

SCALE	NTS	DATE	REVISION
DATE	DESIGNED BY	CHECKED BY	DRAWN
APPROVALS	MANAGER VAULT & BUS DESIGN		
	SECTION MANAGER CUSTOMER ENGINEERING		
	MANAGER ENERGY SERVICES		
	CUSTOMER PROJECT MANAGER		
DIST. ENG.	FOR DEPARTMENT MANAGER DIST. EQUIP. & SUBSTA.		

FOLDER

SAMPLE DRAWING



NETWORK PROTECTOR

CONTRACTOR TO PROVIDE CONDUIT OPENINGS IN WALLS OR FLOOR AS SHOWN. REINFORCING BARS SHALL CLEAR ALL CONDUIT OPENINGS BY A MINIMUM ON ALL SIDES. OMIT BARS WITHIN OPENINGS.

AS PART OF VAULT CONSTRUCTION CONTRACTOR TO INSTALL 6"x1/2" STEEL PLATE WITH 2-7/16 DIA. HOLES 1 1/8" O.C. EXTENDED 4" INTO COMPARTMENT. WELD TO REINFORCING BARS AND CONNECT TO GROUNDING GRID.

THE RESISTANCE TO GROUND MEASUREMENT MUST BE 10 OHMS OR LESS

NOTE: CONDUIT AND PIPES NOT TO BE INSTALLED THROUGH GRADE BEAMS.

PAINTING OF NETWORK COMPARTMENTS

PRIOR TO INSTALLATION OF EQUIPMENT IN NETWORK COMPARTMENTS CONTRACTOR TO PAINT WALLS AND CEILING IN ACCORDANCE WITH SPEC. EO-1191 AS PART OF VAULT CONSTRUCTION. AFTER EQUIPMENT HAS BEEN INSTALLED THE COMPANY IS TO REPAIR DAMAGED WALLS AND CEILING PAINT, AND PAINT FLOORS IN ACCORDANCE WITH EO-1191

4-460-WB-ROOF-TNT-S

CONSOLIDATED EDISON CO. OF NEW YORK, INC.

TRANSFORMER VAULT SECTIONS AT ROOF INSIDE PROPERTY LINE 265/460V

SCALE	DATE	BY	RECORDED
1/8" = 1'-0"			

MANAGER VAULT & BUS DESIGN	
SECTION MANAGER CUSTOMER ENGINEERING	
MANAGER ENERGY SERVICES	
CUSTOMER PROJECT MANAGER	
FOR DEPARTMENT MANAGER DIST. EQUIP. & SUBSTA.	

REFERENCE DWGS:

PLAN	
DETAILS	

DO NOT SCALE THIS DWG., USE DIMENSIONS AS SHOWN

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

FOLDER