BLDG. #4
4-1B, 4-1C, 4-2C

RENOVATE WARDS
BSMT. FLOR ELECTRICAL
PLAN & DETAILS

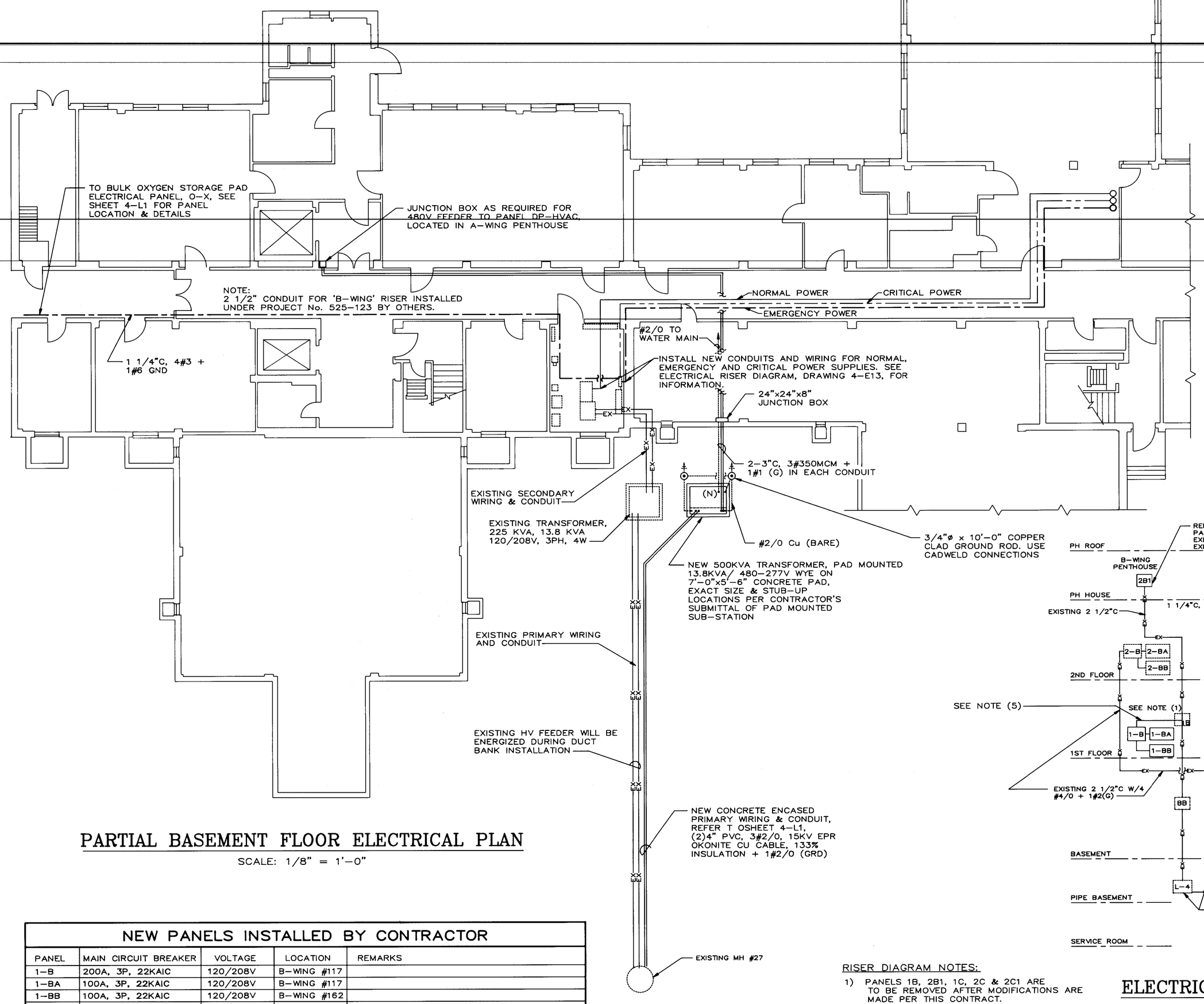
ELEC.
BOB-102

DRAWING #
4-E1

JUNE 1993
SHEET # 38 of 51

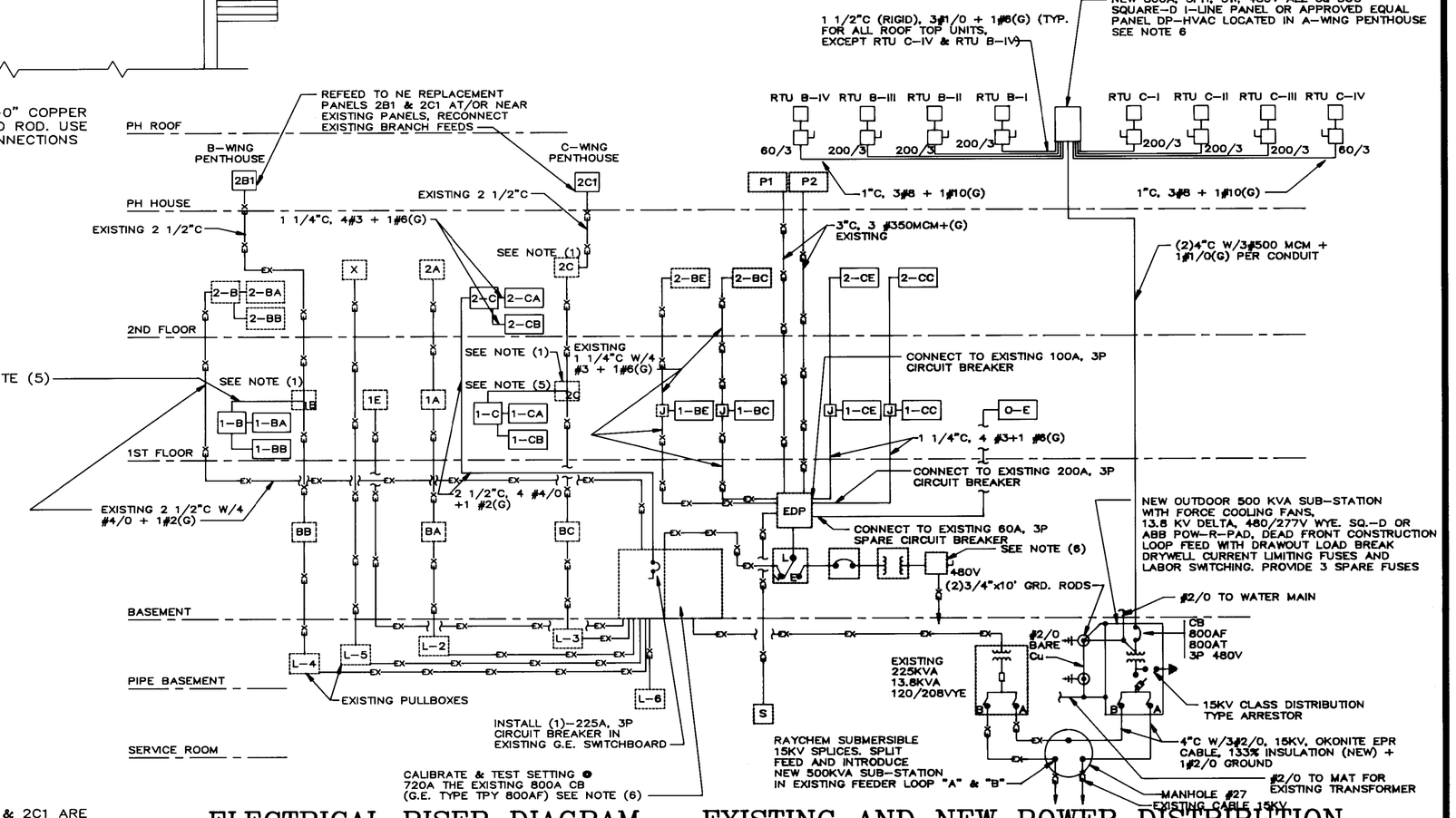
ELECTRICAL LEGEND

- EXISTING SWITCH TO REMAIN
- —E— EXISTING CONDUIT IN PLACE – REMOVE EXISTING WIRES AND INSTALL NEW WIRES AS INDICATED
- —EX— EXISTING CONDUIT AND WIRING TO REMAIN
- —X— EXISTING CONDUIT AND WIRING TO BE ABANDONED OR REMOVED
- NEW RIGID GALV. STEEL CONDUIT WITH 600V THHN/XHHW COPPER WIRE, EXCEPT AS NOTED
- NIGHT LIGHT MTD. 18" AFF UNLESS OTHERWISE NOTED
- O FLUORESCENT FIXTURE, WALL MTD. 7'-6" AFF UNLESS OTHERWISE NOTED
- GFI DUPLEX RECEPTACLE (HOSPITAL GRADE) – 20A, FLUSH MTD. 18" AFF. SUBSCRIPT "GFI" INDICATES GROUND FAULT TYPE; "N" INDICATES NOT HOSPITAL GRADE; "ST" INDICATES (15A) SAFETY TYPE; "I" INDICATES ISOLATED GROUND; "WP" INDICATES WEATHERPROOF NEMA 3R ENCLOSURE. CUT WALL & EMBED RACEWAY (CONDUIT) IN WALL (TYP. OF ALL DEVICES)
- 2-BE EXISTING PANEL TO REMAIN IN RISER DIAGRAM
- 2-CC NEW PANEL IN RISER DIAGRAM, SEE SCHEDULES FOR DETAILS
- DUPLEX RECEPTACLE SWITCHED FLUSH MTD. 18" AFF UNLESS OTHERWISE NOTED
- QUAD– RECEPTACLE FLUSH MOUNTED 18" A.F.F.
- SINGLE POLE SWITCH FLUSH MOUNTED
- 3-WAY SWITCH FLUSH MOUNTED
- J JUNCTION BOX, FLUSH MTD. 18" AFF UNLESS OTHERWISE NOTED
- 3 MOTOR, NUMBER INDICATES HORSEPOWER
- PB PULL BOX, PROVIDE AS REQUIRED PER NEC
- LIGHTING OR LIGHTING/POWER PANELBOARD
- 60/3 DISCONNECT SWITCH–NO FUSES. USE NEMA 3R OUTSIDE BUILDING DENOTES 60A, 3P SWITCH
- HOME RUN TO PANEL – ARROW HEADS INDICATE CIRCUITS. WIRES INDICATED ARE GREEN GROUND, WHITE NEUTRAL AND PHASE 'A' BLACK; PHASE 'B' RED; PHASE 'C' BLUE. ALL THHN/THHW/XHHW 90°C WIRES, USE EMT W/COMPRESSION FITTINGS
  - # OF CKTS. IN EMT CONDUIT
  - PHASE CONDUCTORS (#10 BLACK)
  - NEUTRAL (#10 WHITE)
  - GROUND (#10 GREEN)
- RISER UP
- RISER DOWN
- CRITICAL POWER
- EMERGENCY POWER
- NORMAL POWER



PARTIAL BASEMENT FLOOR ELECTRICAL PLAN

SCALE: 1/8" = 1'-0"



ELECTRICAL RISER DIAGRAM – EXISTING AND NEW POWER DISTRIBUTION

NOT TO SCALE

NEW PANELS INSTALLED BY CONTRACTOR

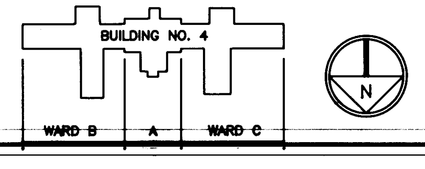
PANEL	MAIN CIRCUIT BREAKER	VOLTAGE	LOCATION	REMARKS
1-B	200A, 3P, 22KAIC	120/208V	B-WING #117	
1-BA	100A, 3P, 22KAIC	120/208V	B-WING #117	
1-BB	100A, 3P, 22KAIC	120/208V	B-WING #162	
1-BC	100A, 3P, 22KAIC	120/208V	B-WING #117	
1-BE	100A, 3P, 22KAIC	120/208V	B-WING #117	
1-C	200A, 3P, 22KAIC	120/208V	C-WING #117	
1-CA	100A, 3P, 22KAIC	120/208V	C-WING #117	
1-CB	100A, 3P, 22KAIC	120/208V	C-WING #105	
1-CC	100A, 3P, 22KAIC	120/208V	C-WING #117	
1-CE	100A, 3P, 22KAIC	120/208V	C-WING #117	
2-C	200A, 3P, 22KAIC	120/208V	C-WING #217	
2-CA	100A, 3P, 22KAIC	120/208V	C-WING #217	
2-CB	100A, 3P, 22KAIC	120/208V	C-WING #260	
2-CC	100A, 3P, 22KAIC	120/208V	C-WING #217	
2-CE	100A, 3P, 22KAIC	120/208V	C-WING #217	
DP-HVAC	600A, 3P, 14KAIC	480/277V	A-WING PENT.	FEEDER BREAKERS MIN. 22KAIC
2B1	200A, 3P, 22KAIC	120/208V	B-WING PENT.	
2C1	200A, 3P, 22KAIC	120/208V	C-WING PENT.	
O-E	60A, 3P, 22KAIC	120/208V	OXYGEN PAD	WEATHER PROOF ENCLOSURE

NOTE:
1) MAIN FEEDER CONDUIT ENTRY TO BE TOP/BOTTOM/SIDE TO BE PER FIELD CONDITION.

RISER DIAGRAM NOTES:

1) PANELS 1B, 2B1, 1C, 2C & 2C1 ARE TO BE REMOVED AFTER MODIFICATIONS ARE MADE PER THIS CONTRACT.
2) ALL CONDUIT RUNS SHOWN ON RISER DIAGRAM ARE TO BE RIGID GALVANIZED STEEL. EXISTING FEEDERS AND PANELS ARE TO BE REPLACED AS INDICATED. PROVIDE GROUNDING BUSHING ON ALL NEW AND EXISTING CONDUIT RUNS AND BOND TO PANELS.
3) SPLICE AND CONNECT NEW PANELS 1-B, 1-BA, 2B1, 2C1, 1-BB, 1-BE, 1-BC, 1-C, 1-CA & 1-CB TO EXISTING CONDUIT AND FEEDER.
4) PROVIDE NAMEPLATES AND "AS-BUILT" SCHEDULES ON ALL NEW & EXISTING PANELS, INCLUDING PANELS NMOT IN THE CONSTRUCTION AREA.
5) RUN 2 1/2"C, 4#4/0 + 1#2(G) BETWEEN EXISTING PANELS "1B" & "1C" TO NEW PANELS 1-B & 1-C RESPECTIVELY. SPLICE INTO EXISTING 200A RISER.
6) INSTALL NAMEPLATE ON PANEL STATING THE FOLLOWING: THERE ARE 3 SOURCES OF POWER INTO THE BUILDING;
   SOURCE A – 208/120V, 3 PHASE, 4 WIRE FROM OUTSIDE TRANSFORMER TO BASEMENT.
   SOURCE B – 480/277V, 3 PHASE, 4 WIRE FROM OUTSIDE TRANSFORMER TO PENTHOUSE A.C. SYSTEM.
   SOURCE C – 480V, 3 PHASE, 3 WIRE EMERGENCY POWER FROM HOSPITAL COMPLEX EMERGENCY GENERATOR TO BASEMENT.

THIS SOURCE IS: ____



MICHAEL C. RICE
No. 5683
REGISTERED PROFESSIONAL ENGINEER

The Winthrop Group
ARCHITECTS – ENGINEERS – INTERIOR DESIGNERS
ONE DAVOL SQUARE
PROVIDENCE, R.I. 02903

DATE	REVISIONS
REVIEWED AND APPROVED BY	DRAWING TITLE: BASEMENT FLOOR ELEC. PLAN & DETAILS
DIRECTOR	BLDG. NO. 4 BROCKTON — PROJECT TITLE: RENOVATION WARDS 4-1B,4-1C & 4-2C
SERVICE CHIEF	DESIGNED J.J.S. — DRAWN J.J.S. — CHECKED M.C.R.
CHIEF ENGINEERING SERV.	DATE 6-30-93 — DRAWING NO. 4-E1 — SCALE 1/8"=1'-0" — PROJECT NO. 525-123
PROJECT ENGINEER	BROCKTON 940 BELMONT ST. BROCKTON, MA. 02401 — WEST ROXBURY V.A.M.C. 1400 VFW PARKWAY WEST ROXBURY, MA. 02132
SAFETY MANAGER	Department of Veterans Affairs