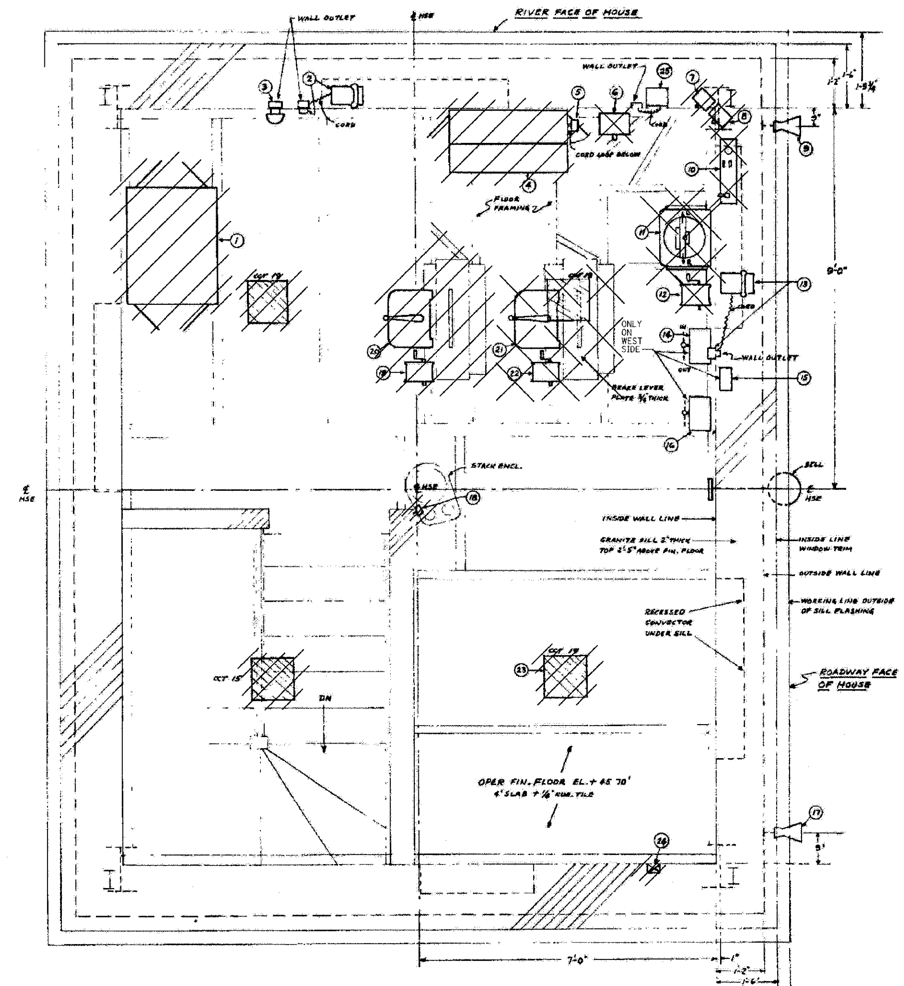
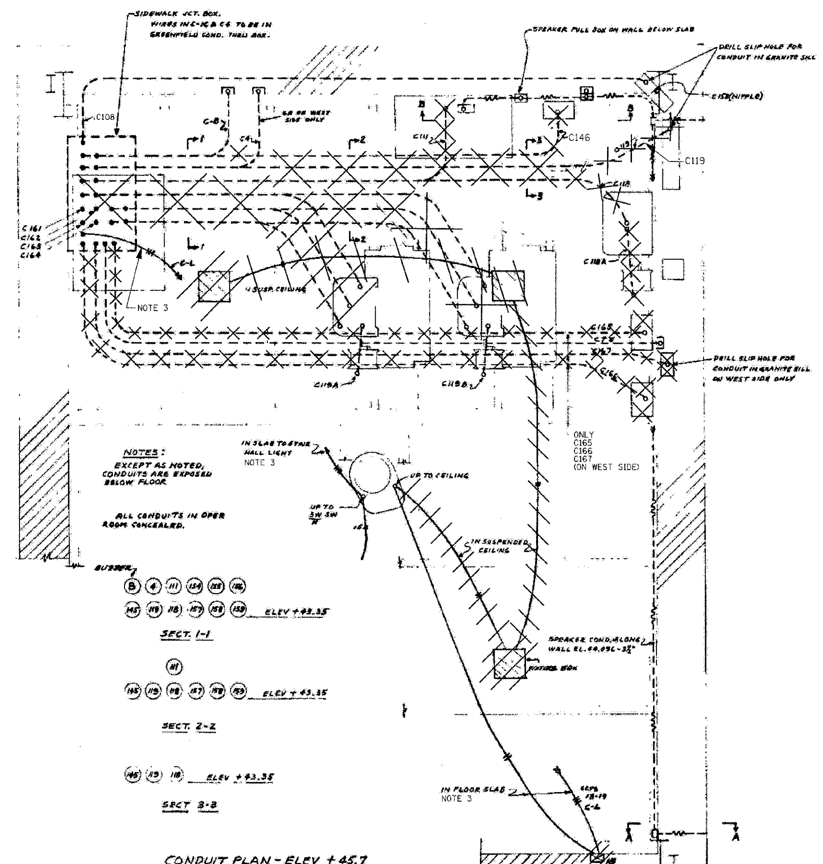
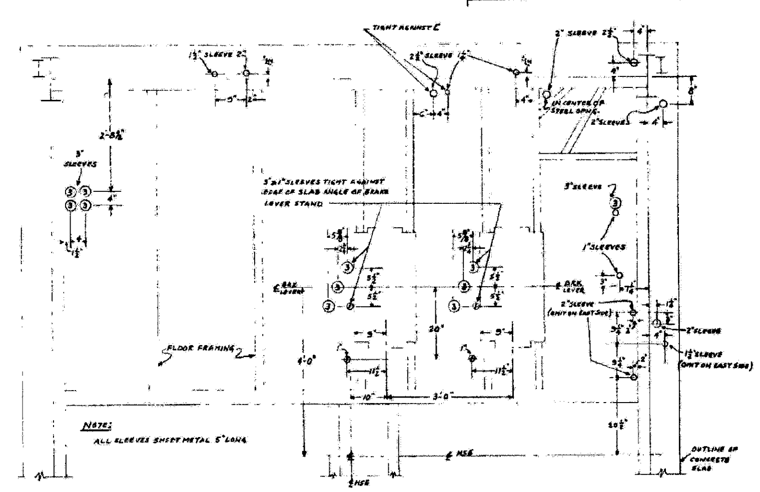


EQUIPMENT PLAN - ELEV.+45.70' - OPERATORS HOUSE (EAST SIDE)
NTS



CONDUIT PLAN - ELEV +45.7
NTS



PLAN OF FLOOR SLEEVES - ELEV.+45.7

NOTES:

1. EAST SIDE SHOWN. WEST SIDE SAME WITH DIRECTION ARROW REVERSED AND AS NOTED.
2. PROVIDE TEMPORARY LIGHT AND POWER 24 HOURS PER DAY, 7 DAYS A WEEK.
3. DE-ENERGIZE AND DISCONNECT LIGHTING CIRCUITS 15, 18, 19 AND FOR BUZZER AT THE LIGHTING CABINET. REFER TO DWGS E-21 AND E-23. ALL LIGHTING CONDUIT RUNS CONCEALED IN FLOOR SLABS AND WALLS SHALL BE ABANDONED. WIRING SHALL BE REMOVED. ALL OPENINGS AS A RESULT OF DEMOLITION WORK SHALL BE CLOSED IN A MANNER APPROVED BY THE ENGINEER.
4. COORDINATE THIS DRAWING WITH DWG E-29.
5. ALL LOW TENSION SYSTEMS THAT HAVE TO BE MAINTAINED BUT AFFECTED BY THE DEMOLITION WORK SHALL BE REROUTED, RECONNECTED AND RESTORED TO THEIR PRESENT FUNCTIONS AND COORDINATE THE WORK WITH THE ENGINEER.

EQUIPMENT SCHEDULE

ITEM	DESCRIPTION	ITEM	DESCRIPTION
1	BENCHBOARD - FLOOR MOUNTED	15	CENTERLOCK IND LIGHT BOX ON SILL - WEST SIDE ONLY
2	ILL BELL TEL ON SILL - BELL BOX ON WALL WEST SIDE ONLY	16	CENTERLOCK CONTROL - FLOOR PEDESTAL - S.W. ONLY
3	BUZZER ON WALL	17	OUTSIDE SPEAKER - BRACKET MOUNTED ON WALL
4	INSTRUMENT BOARD - FLOOR MOUNTED	18	3 WAY SWITCH IN STACK ENCLOSURE - STAIR HALL LIGHTS
5	MICROPHONE ON HOOK SW - MOUNTED ON ITEM #4	19	AUX. FOOT SWITCH - N.W. & S.E FLOOR MOUNTED
6	BARRIER CONTROL BOX - FLOOR PEDESTAL	20	AUX. CONTROLLER - N.W & S.E FLOOR MOUNTED
7	GATE CONTROL BOX - BRACKET TO COL ABOVE SILL S.E & N.W	21	AUX CONTROLLER - S.W. & N.E FLOOR MOUNTED
8	GATE CONTROL BOX - BRACKET TO COL. ABOVE SILL N.E. & S.W.	22	AUX FOOT SWITCH - S.W. & N.E FLOOR MOUNTED
9	OUTSIDE SPEAKER - BRACKET MOUNTED ON WALL	23	INCANDESCENT CEILING LIGHT ART METAL #3440
10	BOX WITH SEATING SW, TORQUE SW, 2 BUZZER SW.S	24	WALL RECEPTACLE
11	MASTER CONTROLLER - FLOOR MOUNTED	25	PAGING SPEAKER ON SILL
12	FOOT SWITCH - MASTER CONTROLLER - FLOOR MOUNTED	26	
13	INTERCOM. TEL. ON SILL - BELL BOX ON WALL	27	
14	CENTER LOCK CONTROLLER - FLOOR PEDESTAL - N.W. ONLY		

EAST / WEST SIDE OPERATOR'S ROOM LEVEL
PLAN
NTS

USER NAME = sharma	DESIGNED - A. CENTENO	REVISED -	
FILE NAME = D160e61-sht-elc-30.dgn	DRAWN - S. SHARMA	REVISED -	
PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -	
PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

PB Americas, Inc.
230 WEST MONROE STREET,
SUITE 900
CHICAGO, IL. 60606

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ELECTRICAL DEMOLITION
EAST /WEST SIDE OPERATOR'S ROOM LEVEL

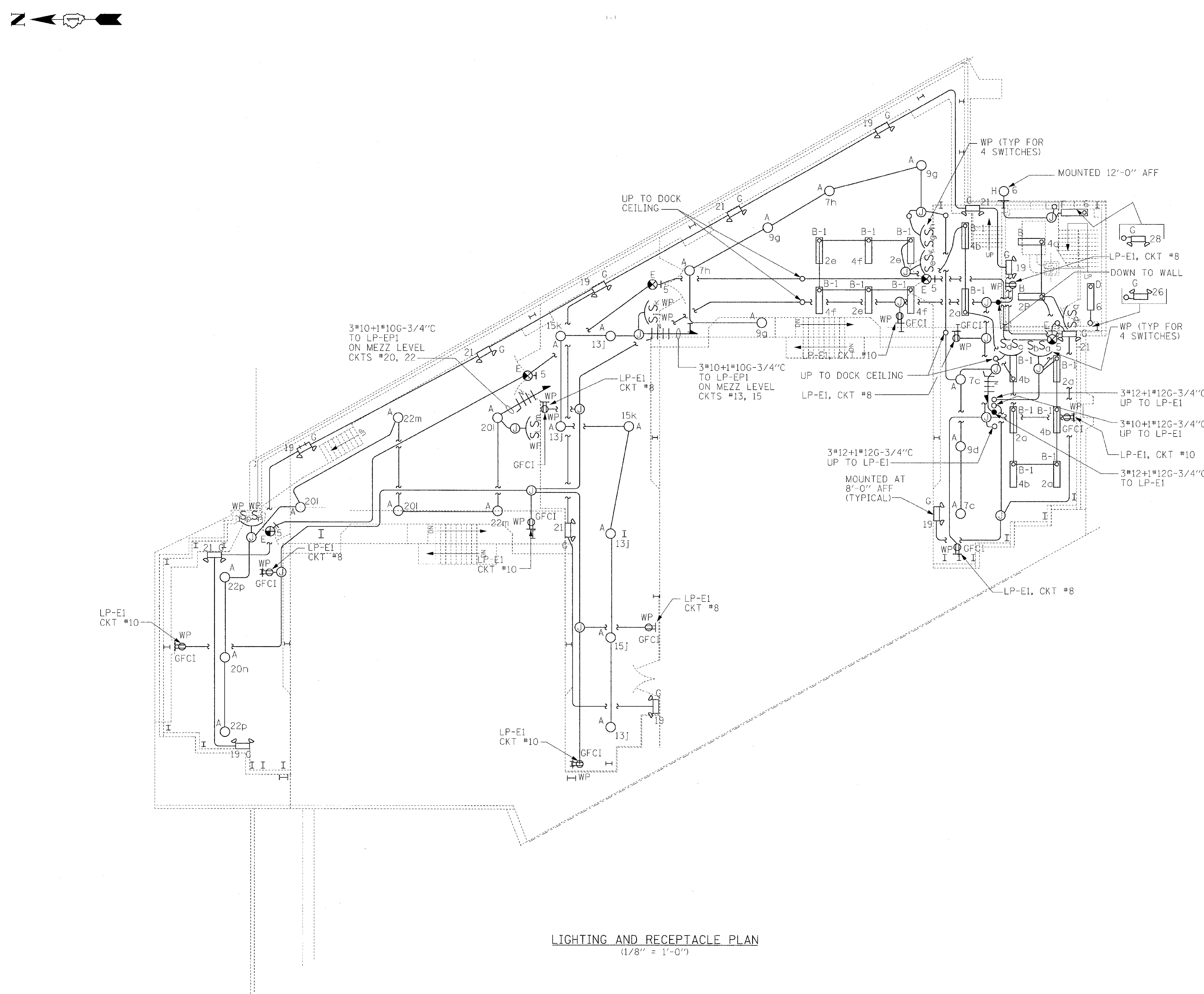
SCALE: AS SHOWN | SHEET NO. E-30 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	301
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

NOTES:

1. FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS SEE DWGS E-04, E-05 AND E-06.
2. FOR GENERAL NOTES SEE DWG E-02 AND E-04.
3. FOR PANEL SCHEDULES SEE DWG E-64.
4. FOR LIGHT FIXTURES DESCRIPTIONS SEE ELECTRICAL SPECIFICATIONS.



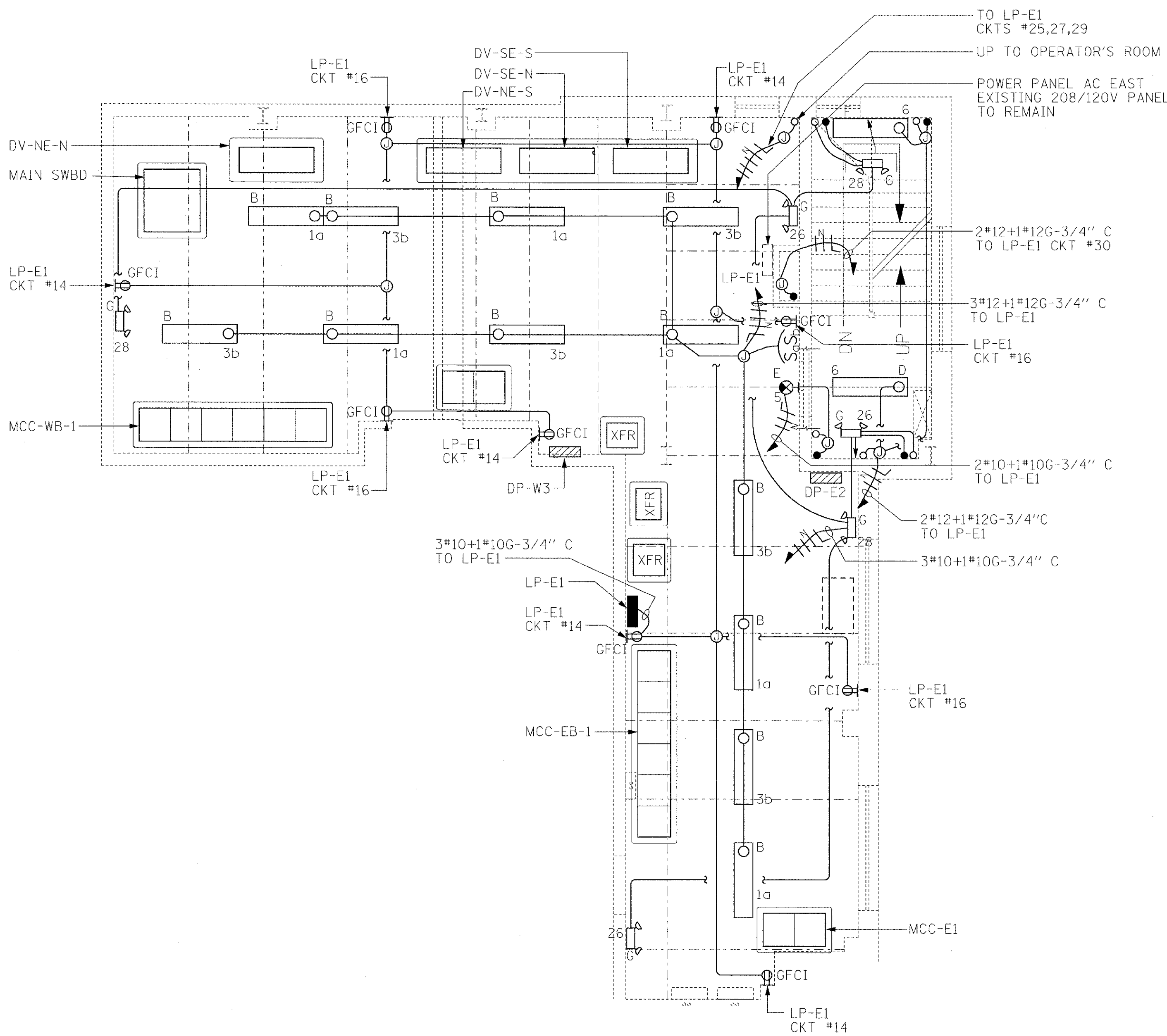
LIGHTING AND RECEPTACLE PLAN
(1/8" = 1'-0")

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - R. GODULIAS	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**LIGHTING AND RECEPTACLE PLAN EAST SIDE DOCK LEVEL**	F.A.P RTE. 389 · SECTION 2424-2B-R · COUNTY COOK · TOTAL SHEETS 398 · SHEET NO. 302
	FILE NAME = D160d61-sht-elc-31.dgn	DRAWN - S. SHARMA	REVISED -			CONTRACT NO. 60D61
	PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -		SCALE: AS SHOWN · SHEET NO. E-31 OF E-125 SHEETS · STA. 379+06.09 TO STA. 382+45.28	FED. ROAD DIST. NO. 1 · ILLINOIS · FED. AID PROJECT
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -			

Z

NOTES:

1. FOR ELECTRICAL SYMBOLS SEE DWGS. E-04 & E-05
2. FOR ABBREVIATIONS SEE DWG. E-06.
3. FOR GENERAL NOTES SEE DWG E-02 & E-03.
4. FOR PANEL SCHEDULES SEE DWG E-64.
5. FOR LIGHT FIXTURES DESCRIPTIONS SEE ELECTRICAL SPECIFICATIONS.

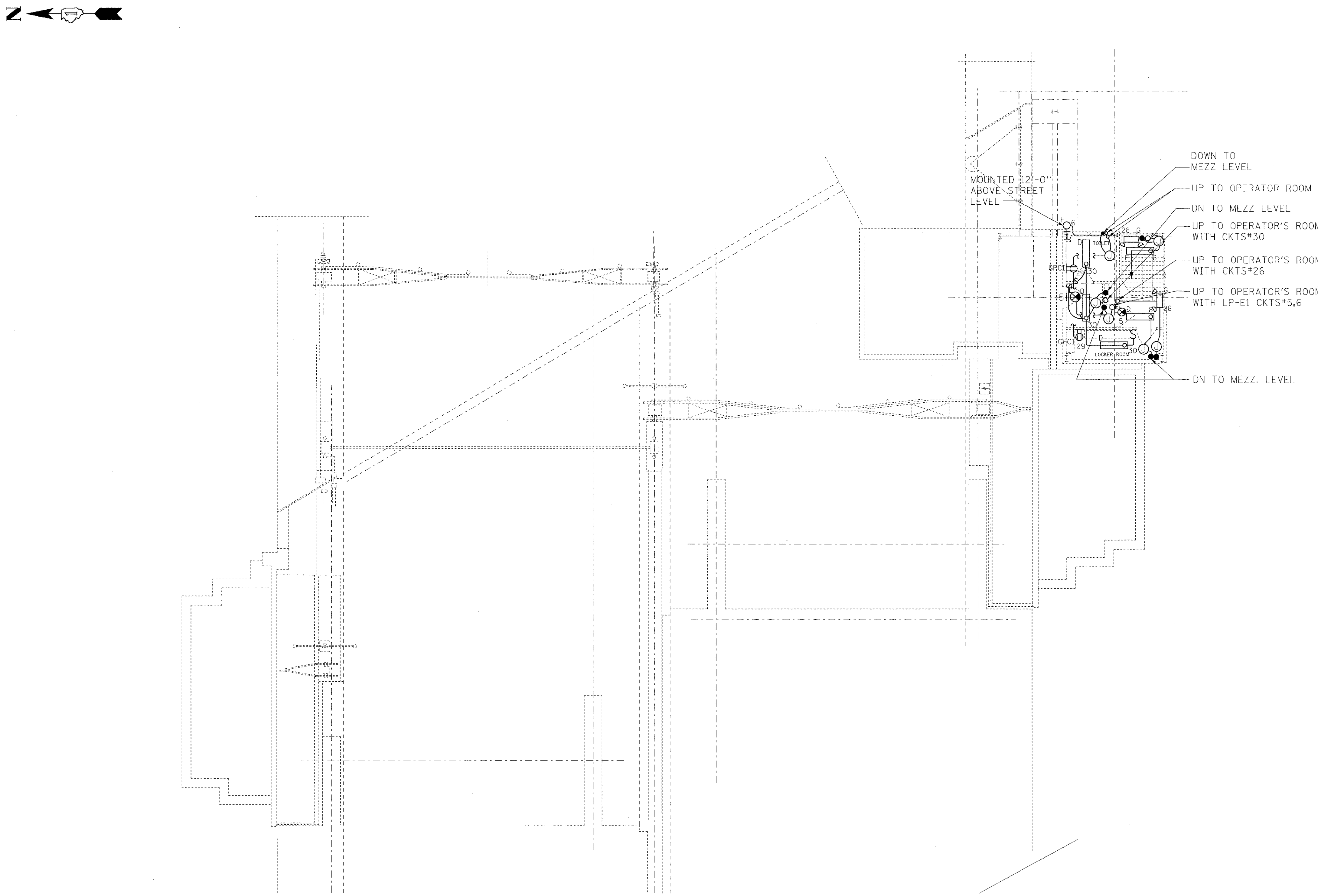


LIGHTING AND RECEPTACLE PLAN

(1/4" = 1'-0")

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - R. GODULIAS	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**	**LIGHTING AND RECEPTACLE PLAN** **EAST SIDE MEZZANINE LEVEL**	
	FILE NAME = D162d61-sht-elc-32.dgn	DRAWN - S. SHARMA	REVISED -			
	PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -			
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -		SCALE: AS SHOWN | SHEET NO. E-32 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28	

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	303
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



LIGHTING AND RECEPTACLE PLAN
(1/8" = 1'-0")

NOTES:

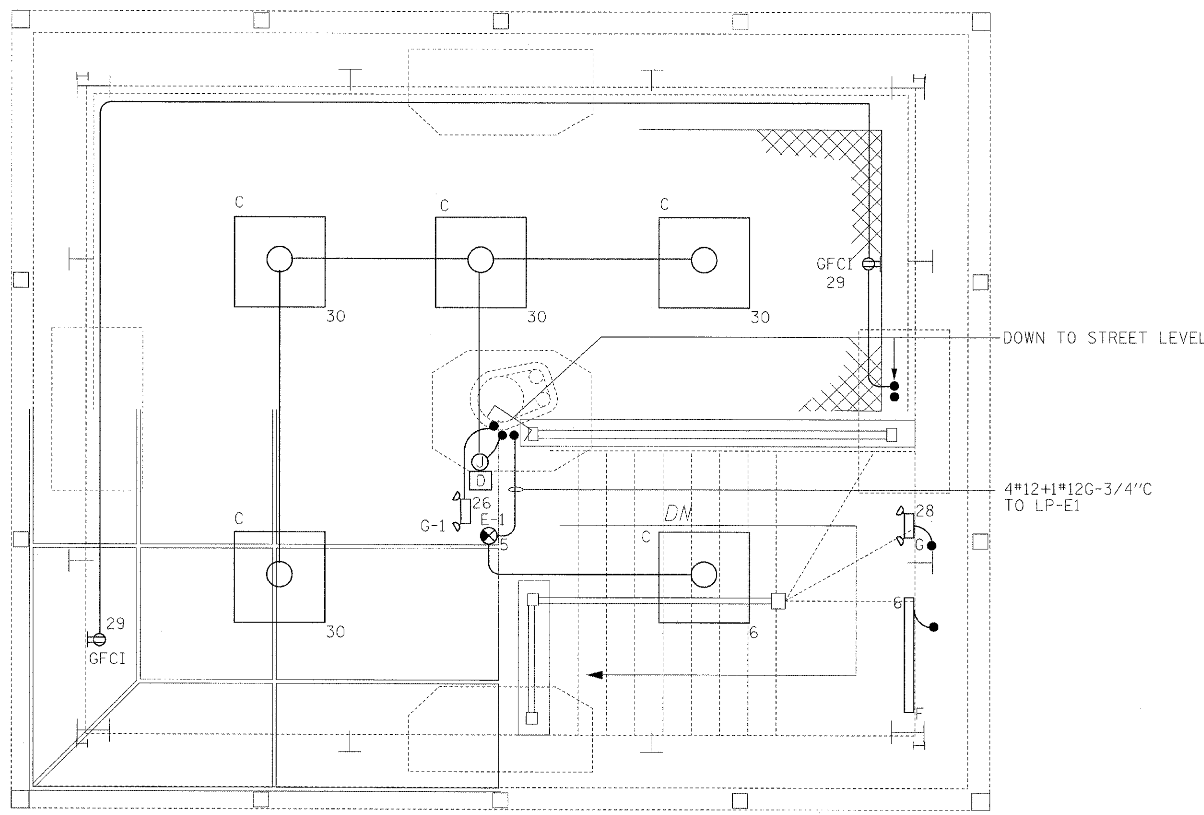
1. FOR ELECTRICAL SYMBOLS SEE DWGS. E-04 & E-05.
2. FOR ABBREVIATIONS SEE DWG E-06.
3. FOR GENERAL NOTES SEE DWGS E-02 & E-03.
4. FOR PANEL SCHEDULES SEE DWG E-64.
5. FOR LIGHT FIXTURES DESCRIPTIONS SEE ELECTRICAL SPECIFICATIONS.

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - R. GODULIAS	REVISED	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**LIGHTING AND RECEPTACLE PLAN EAST SIDE SIDEWALK LEVEL**
	FILE NAME = D160d61-sht-elc-33.dgn	DRAWN - S. SHARMA	REVISED -		
	PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -		
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -		SCALE: AS SHOWN · SHEET NO. E-33 OF E-125 SHEETS · STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	304
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

NOTES:

1. FOR ELECTRICAL SYMBOLS SEE DWGS. E-04 & E-05.
2. FOR ABBREVIATIONS SEE DWG E-06.
3. FOR GENERAL NOTES SEE DWGS. E-02 & E-03.
4. FOR PANEL SCHEDULES SEE DWG E-64.
5. FOR LIGHT FIXTURES DESCRIPTIONS SEE ELECTRICAL SPECIFICATIONS.



EAST SIDE OPERATOR'S ROOM
PLAN
1/2"=1'-0"

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - R. GODULIAS	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	FILE NAME = D160d61-sht-elc-34.dgn	DRAWN - S. SHARMA	REVISED -	
	PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -	
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

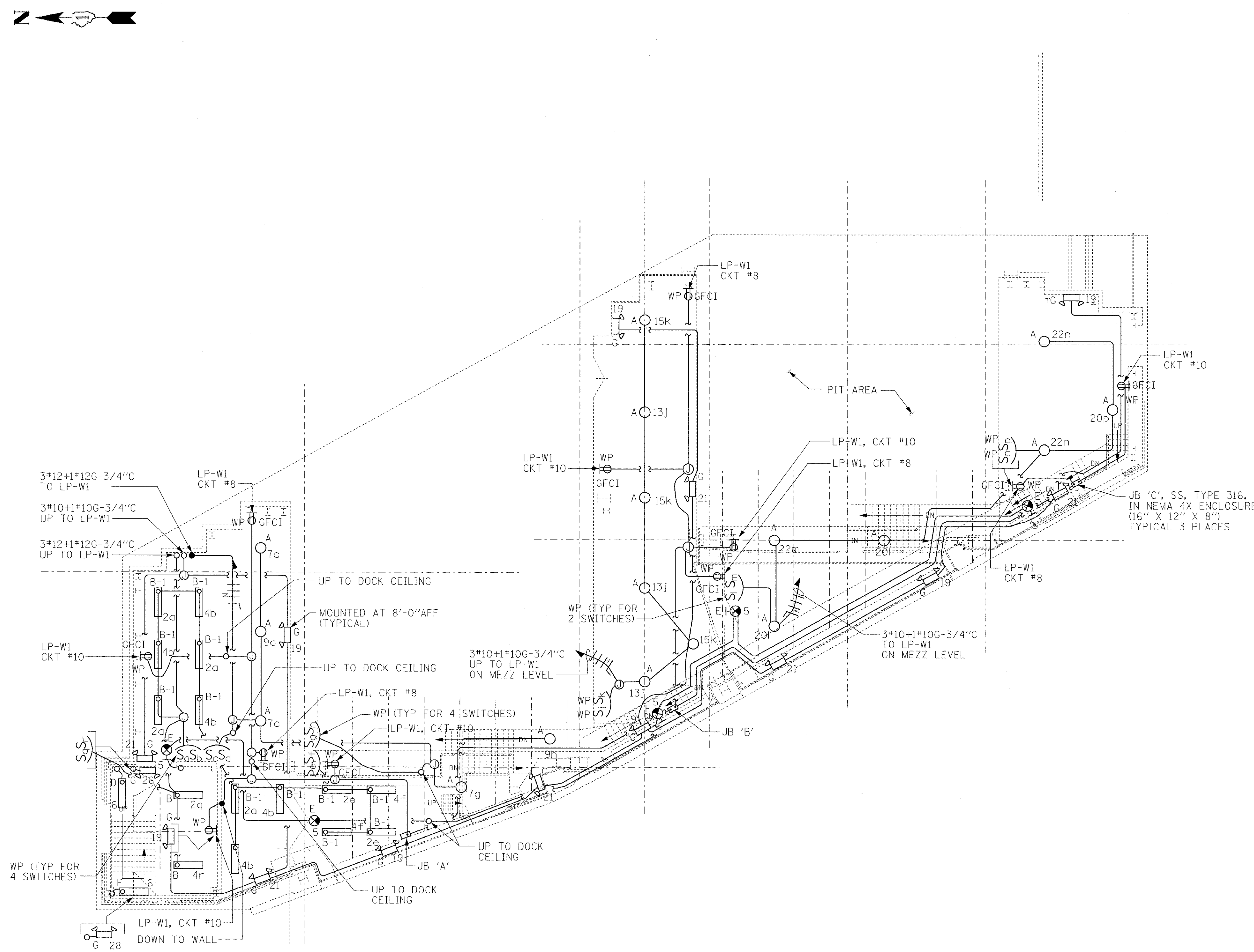
LIGHTING AND RECEPTACLE PLAN
EAST SIDE OPERATOR'S ROOM

SCALE: AS SHOWN	SHEET NO. E-34 OF E-125 SHEETS	STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	305
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

NOTES:

1. FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS SEE DWGS E-04, E-05 AND E-06.
2. FOR GENERAL NOTES SEE DWG E-02 AND E-04.
3. FOR PANEL SCHEDULES SEE DWG E-64.
4. FOR LIGHT FIXTURES DESCRIPTIONS SEE ELECTRICAL SPECIFICATIONS.



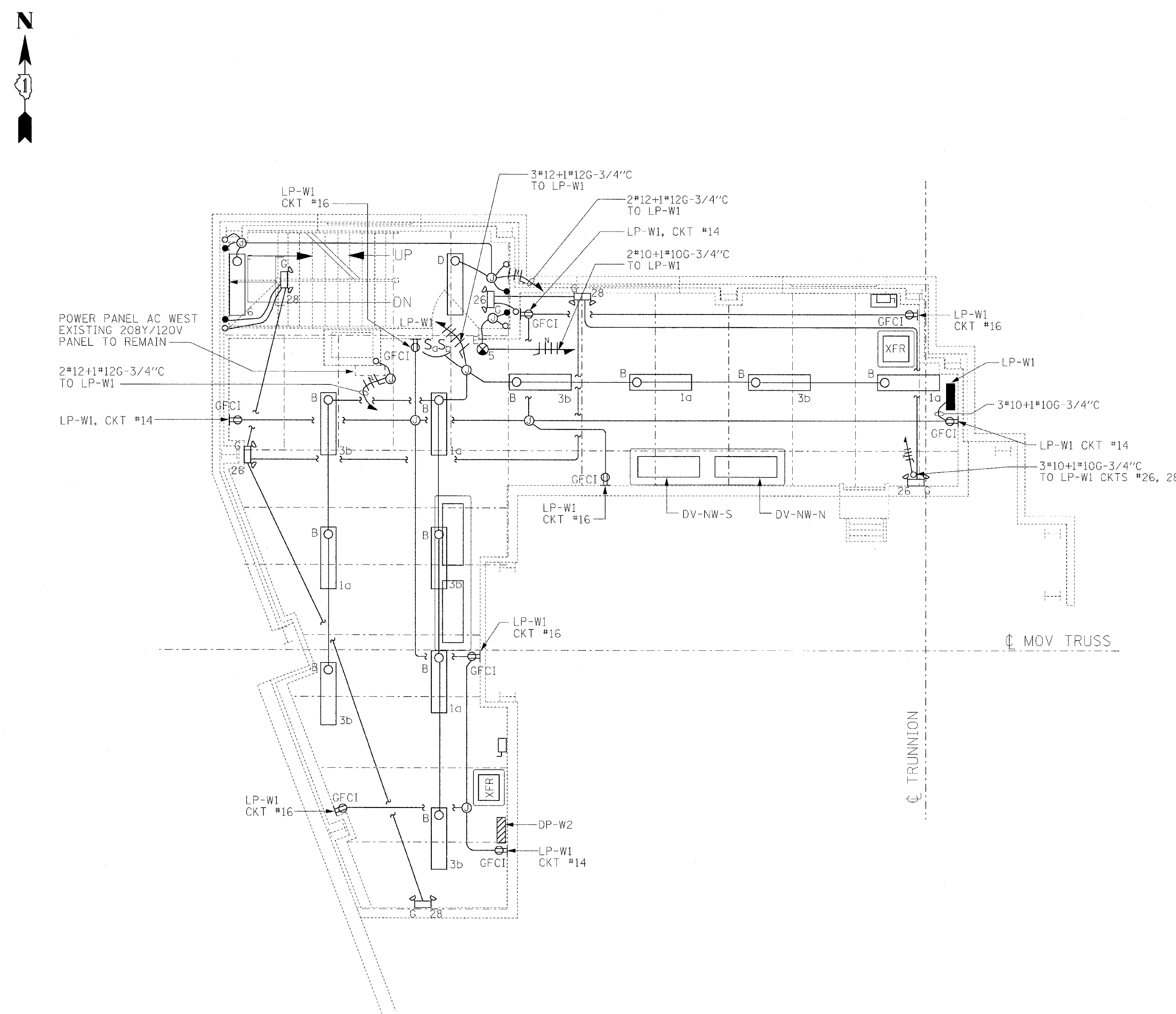
LIGHTING AND RECEPTACLE PLAN
1/8" = 1'-0"

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL 60606	USER NAME = sharma / FILE NAME = D160d61-sht-elc-35.dgn / PLOT SCALE = NONE / PLOT DATE = 5/7/2009	DESIGNED - R. GODULIAS / DRAWN - S. SHARMA / CHECKED - M. INTATANO / DATE - MAY 8, 2009	REVISED - / REVISED - / REVISED - / REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**LIGHTING AND RECEPTACLE PLAN WEST SIDE DOCK LEVEL** SCALE: AS SHOWN / SHEET NO. E-35 OF E-125 SHEETS / STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-28-R	COOK	398	306
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

NOTES:

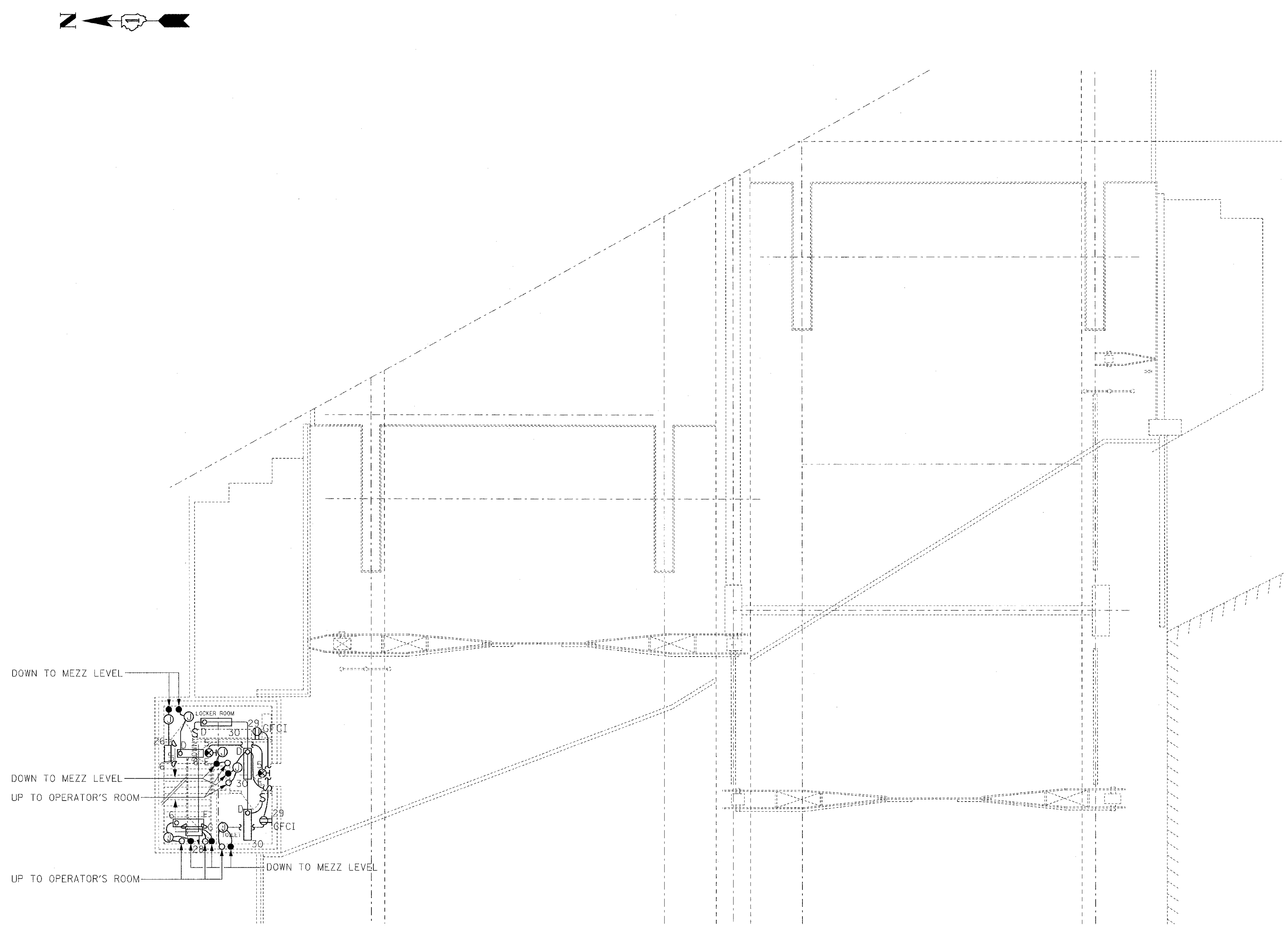
1. FOR ELECTRICAL SYMBOLS SEE DWGS. E-04 & E-05.
2. FOR ABBREVIATIONS SEE DWG. E-06.
3. FOR GENERAL NOTES SEE DWGS. E-02 & E-03.
4. FOR PANEL SCHEDULES SEE DWG E-64.
5. FOR LIGHT FIXTURES DESCRIPTIONS SEE ELECTRICAL SPECIFICATIONS.



LIGHTING AND RECEPTACLE PLAN - WEST SIDE MEZZANINE LEVEL
1/4" = 1'-0"

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - R. GODULIAS	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**LIGHTING AND RECEPTACLE PLAN WEST SIDE MEZZANINE LEVEL**
	FILE NAME = D162d61-sht-elc-36.dgn	DRAWN - S. SHARMA	REVISED -		
	PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -		
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -		SCALE: AS SHOWN / SHEET NO. E-36 OF E-125 SHEETS / STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	307
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTES:

1. FOR ELECTRICAL SYMBOLS SEE DWGS. E-04 & E-05.
2. FOR ABBREVIATIONS SEE DWG. E-06.
3. FOR GENERAL NOTES SEE DWGS. E-02 & E-03.
4. FOR PANEL SCHEDULES SEE DWG E-64.
5. FOR LIGHT FIXTURES DESCRIPTIONS SEE ELECTRICAL SPECIFICATIONS.

LIGHTING AND RECEPTACLE PLAN
1/8"=1'-0"

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - R. GODULIAS	REVISED -
	FILE NAME = D160d61-sht-elc-37.dgn	DRAWN - S. SHARMA	REVISED -
	PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -

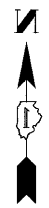
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

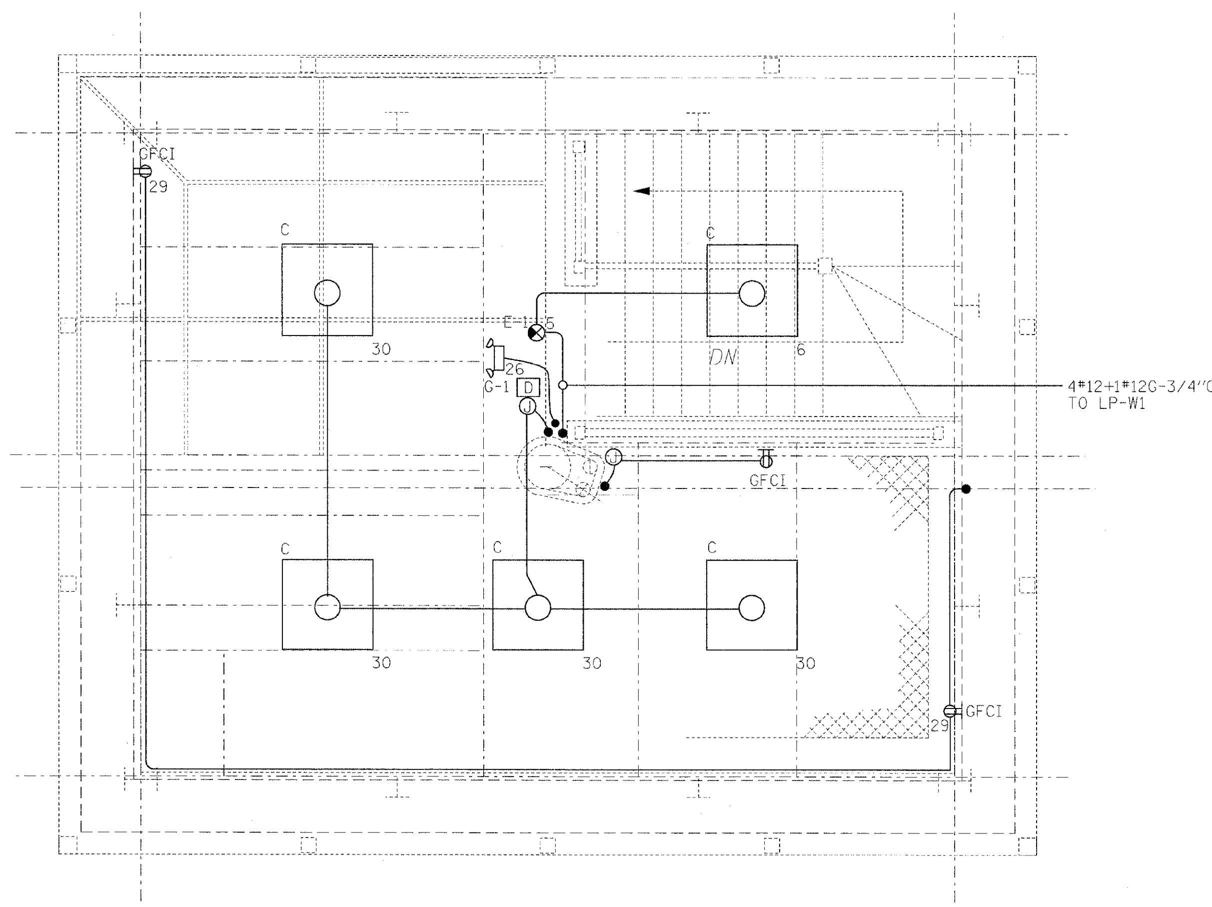
LIGHTING AND RECEPTACLE PLAN
WEST SIDE SIDEWALK LEVEL

SCALE: AS SHOWN | SHEET NO. E-37 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	308
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT





LIGHTING AND RECEPTACLE PLAN
1/2"=1'-0"

NOTES:

1. FOR ELECTRICAL SYMBOLS SEE DWGS. E-04 AND E-05.
2. FOR ABBREVIATIONS SEE DWG. E-06.
3. FOR GENERAL NOTES SEE DWGS E-02 & E-03.
4. FOR PANEL SCHEDULES SEE DWG E-64.
5. FOR LIGHT FIXTURES DESCRIPTIONS SEE ELECTRICAL SPECIFICATIONS.

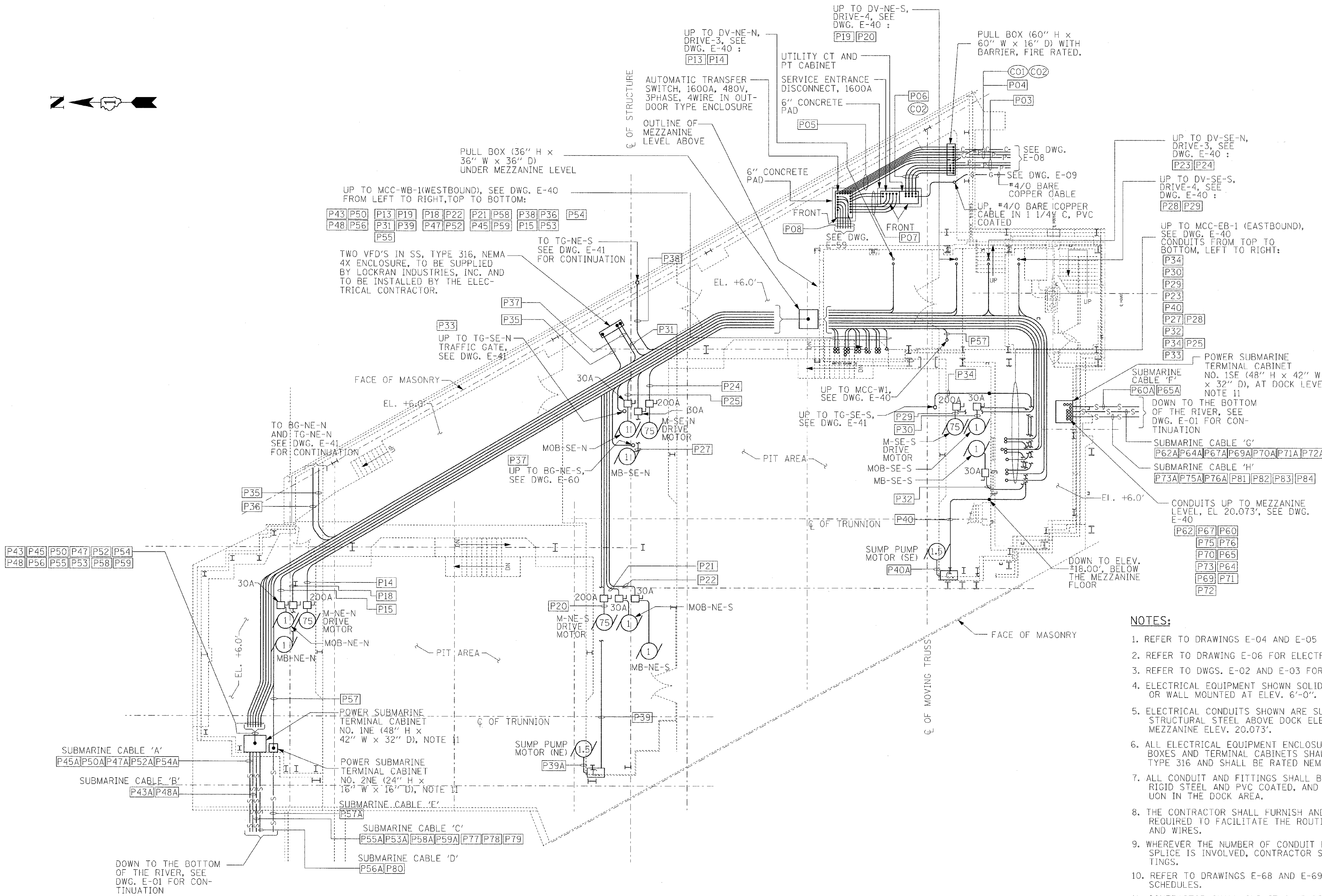
PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - R. GODULIAS	REVISED -
	FILE NAME = D160c61-sht-elc-38.dgn	DRAWN - S. SHARMA	REVISED -
	PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING AND RECEPTACLE PLAN
WEST SIDE OPERATOR'S ROOM

SCALE: AS SHOWN	SHEET NO. E-38 OF E-125 SHEETS	STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	309
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



POWER PLAN
1/8"=1'-0"

NOTES:

1. REFER TO DRAWINGS E-04 AND E-05 FOR ELECTRICAL SYMBOLS.
2. REFER TO DRAWING E-06 FOR ELECTRICAL ABBREVIATIONS.
3. REFER TO DWGS. E-02 AND E-03 FOR GENERAL ELECTRICAL NOTES.
4. ELECTRICAL EQUIPMENT SHOWN SOLID IS PLATFORM MOUNTED OR WALL MOUNTED AT ELEV. 6'-0".
5. ELECTRICAL CONDUITS SHOWN ARE SUSPENDED FROM EXISTING STRUCTURAL STEEL ABOVE DOCK ELEV. 6'-0" AND BELOW THE MEZZANINE ELEV. 20.073'.
6. ALL ELECTRICAL EQUIPMENT ENCLOSURES, PULL BOXES, JUNCTION BOXES AND TERMINAL CABINETS SHALL BE STAINLESS STEEL, TYPE 316 AND SHALL BE RATED NEMA 4X IN THE DOCK AREA.
7. ALL CONDUIT AND FITTINGS SHALL BE HOT- DIP GALVANIZED RIGID STEEL AND PVC COATED, AND POLYURETHANE COATED, UON IN THE DOCK AREA.
8. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL PULL BOXES REQUIRED TO FACILITATE THE ROUTING AND PULLING OF CONDUITS AND WIRES.
9. WHEREVER THE NUMBER OF CONDUIT BENDS EXCEED 180° AND NO SPLICE IS INVOLVED, CONTRACTOR SHALL USE MOGUL TYPE FITTINGS.
10. REFER TO DRAWINGS E-68 AND E-69 FOR CONDUIT AND WIRE SCHEDULES.
11. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF SUBMARINE CABLE TERMINAL BOX DETAILS, FOR REVIEW AND APPROVAL.

PB Americas, Inc.
230 WEST MONROE STREET,
SUITE 900
CHICAGO, IL. 60606

USER NAME = sharma	DESIGNED - A. CENTANO	REVISED -	
FILE NAME = D16Ød61-sht-elc-39.dgn	DRAWN - S. SHARMA	REVISED -	
PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -	
PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

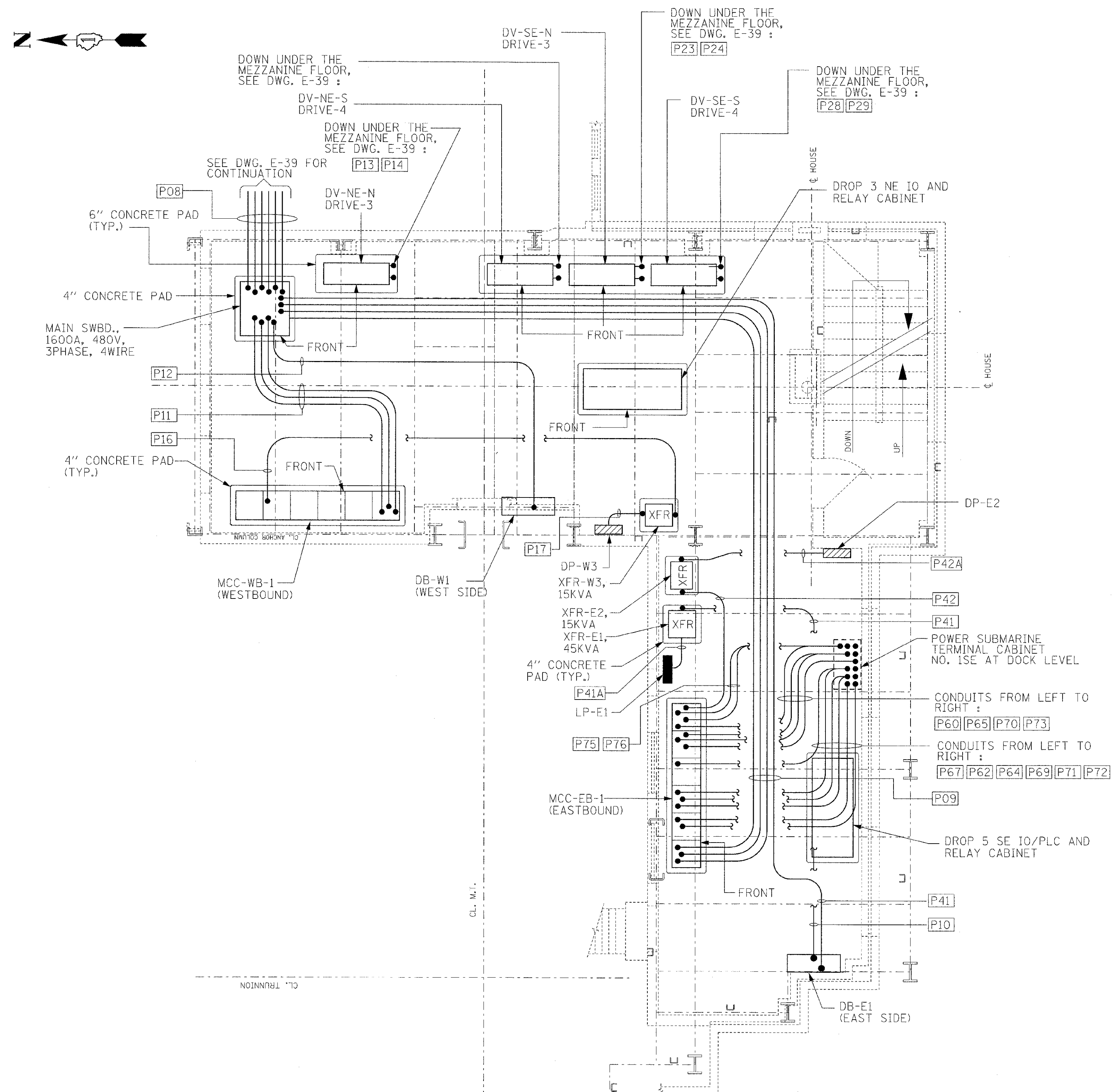
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

POWER PLAN
EAST SIDE DOCK LEVEL

SCALE: AS SHOWN | SHEET NO. E-39 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-28-R	COOK	398	310
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



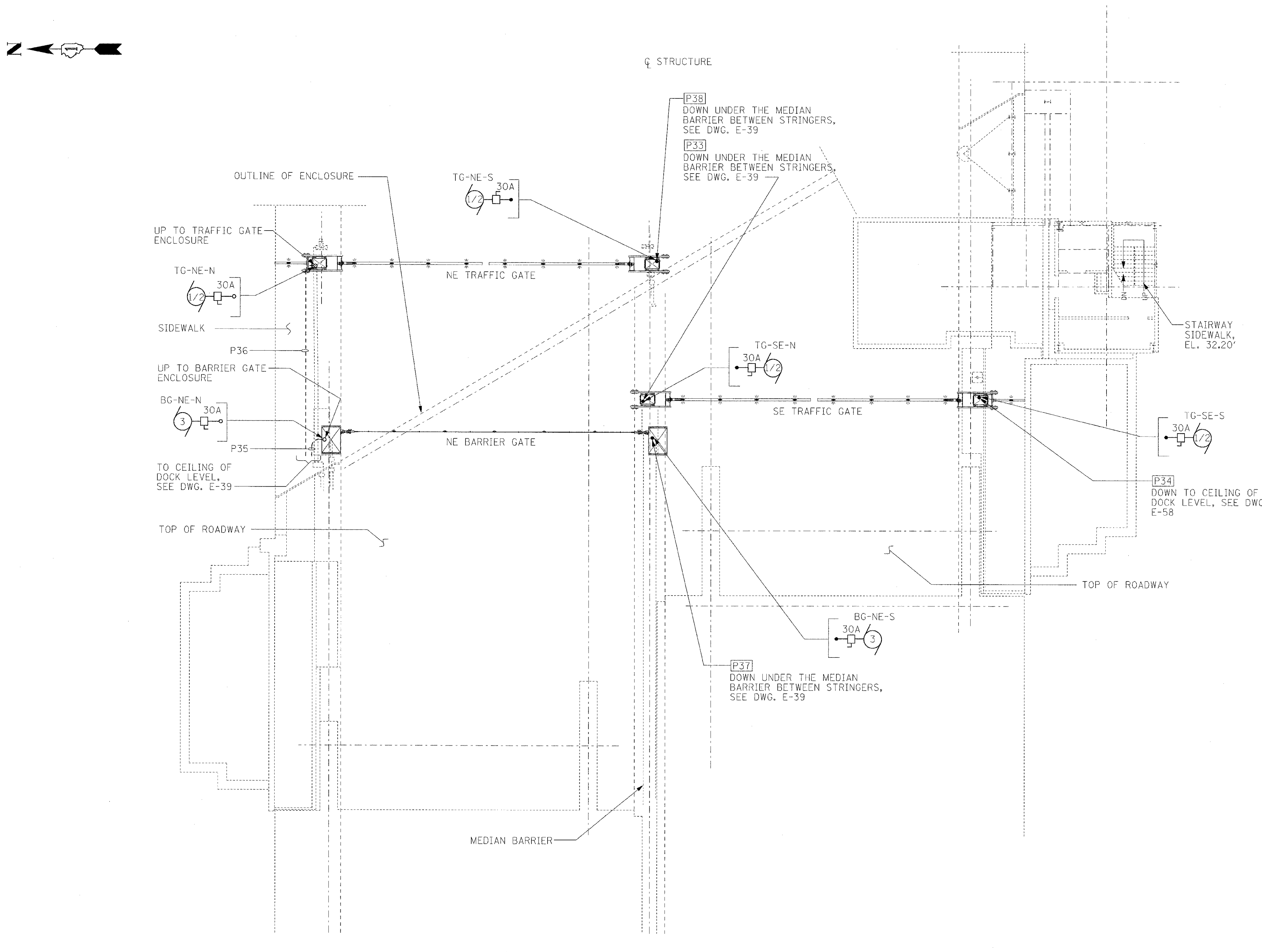
POWER PLAN
1/4"=1'-0"

NOTES:

1. REFER TO DRAWINGS E-04 AND E-05 FOR ELECTRICAL SYMBOLS.
2. REFER TO DRAWING E-06 FOR ELECTRICAL ABBREVIATIONS.
3. REFER TO DWGS. E-02 AND E-03 FOR GENERAL ELECTRICAL NOTES.
4. ELECTRICAL TERMINAL CABINET SHOWN DASHED IS WALL MOUNTED AT ELEV. 6'-0".
5. ELECTRICAL CONDUITS SHOWN ARE SUSPENDED FROM EXISTING STRUCTURAL STEEL ABOVE THE MEZZANINE ELEV. 20.073'.
6. ALL ELECTRICAL EQUIPMENT ENCLOSURES, PULL BOXES, JUNCTION BOXES AND TERMINAL CABINETS SHALL BE HOT-DIP GALVANIZED STEEL AND SHALL BE RATED NEMA 1 OR 12 IN THE MEZZANINE AREA.
7. ALL CONDUIT AND FITTINGS SHALL BE HOT-DIP GALVANIZED RIGID STEEL IN THE MEZZANINE AREA.
8. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL PULL BOXES REQUIRED TO FACILITATE THE ROUTING AND PULLING OF CONDUITS AND WIRES.
9. WHEREVER THE NUMBER OF CONDUIT BENDS EXCEED 180° AND NO SPLICE IS INVOLVED, CONTRACTOR SHALL USE MOGUL TYPE FITTINGS.
10. REFER TO DRAWINGS E-68 AND E-69 FOR CONDUIT AND WIRE SCHEDULES.
11. REFER TO DRAWINGS E-59 THROUGH E-61 FOR ELECTRICAL EQUIPMENT ELEVATIONS.

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - A. CENTENO	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**POWER PLAN EAST SIDE MEZZANINE LEVEL**
	FILE NAME = D160d61-sht-elc-40.dgn	DRAWN - S. SHARMA	REVISED -		
	PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -		
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -		SCALE: AS SHOWN / SHEET NO. E-40 OF E-125 SHEETS / STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	311
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



POWER PLAN
1/8"=1'-0"

NOTES:

1. REFER TO DRAWINGS E-04 AND E-05 FOR ELECTRICAL SYMBOLS.
2. REFER TO DRAWING E-06 FOR ELECTRICAL ABBREVIATIONS.
3. REFER TO DWGS. E-02 AND E-03 FOR GENERAL ELECTRICAL NOTES.
4. ELECTRICAL CONDUITS SHOWN DASHED ARE THE UNDER SIDEWALK SLAB BETWEEN STRINGERS.
5. ALL ELECTRICAL EQUIPMENT ENCLOSURES, PULL BOXES AND JUNCTION BOXES SHALL BE STAINLESS STEEL, TYPE 316 AND SHALL BE RATED NEMA 4X ABOVE OR UNDER THE VIADUCT.
6. ALL CONDUIT AND FITTINGS SHALL BE HOT- DIP GALVANIZED RIGID STEEL AND PVC COATED, AND POLYURETHANE COATED, ABOVE OR UNDER THE VIADUCT, UON.
7. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL PULL BOXES REQUIRED TO FACILITATE THE ROUTING AND PULLING OF CONDUITS AND WIRES.
8. WHEREVER THE NUMBER OF CONDUIT BENDS EXCEED 180° AND NO SPLICE IS INVOLVED, CONTRACTOR SHALL USE MOGUL TYPE FITTINGS
9. REFER TO DRAWINGS E-68 AND E-69 FOR CONDUIT AND WIRE SCHEDULES.
10. REFER TO MECHANICAL DRAWING M-26 FOR EXACT LOCATIONS OF TRAFFIC AND BARRIER GATES.

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma FILE NAME = D160d61-sht-elc-41.dgn PLOT SCALE = NONE PLOT DATE = 5/7/2009	DESIGNED - A. CENTENO DRAWN - S. SHARMA CHECKED - M. INTATANO DATE - MAY 8, 2009	REVISED - REVISED - REVISED - REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

POWER PLAN
EAST SIDE SIDEWALK LEVEL

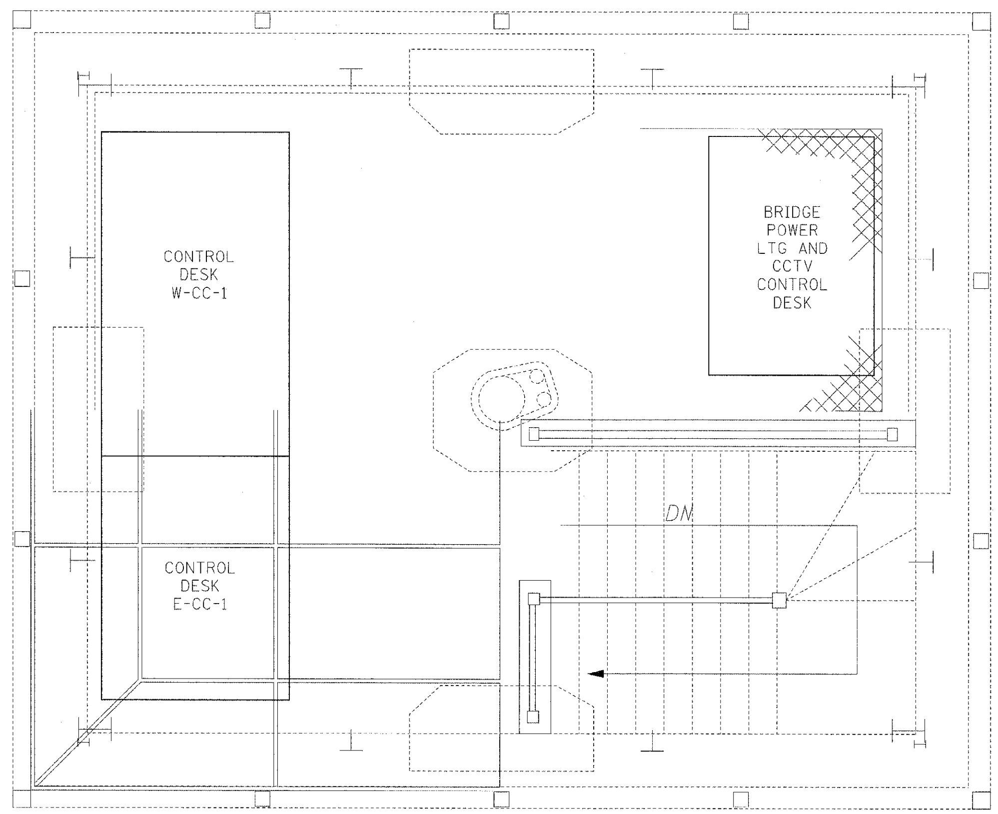
SCALE: AS SHOWN | SHEET NO. E-41 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	312
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

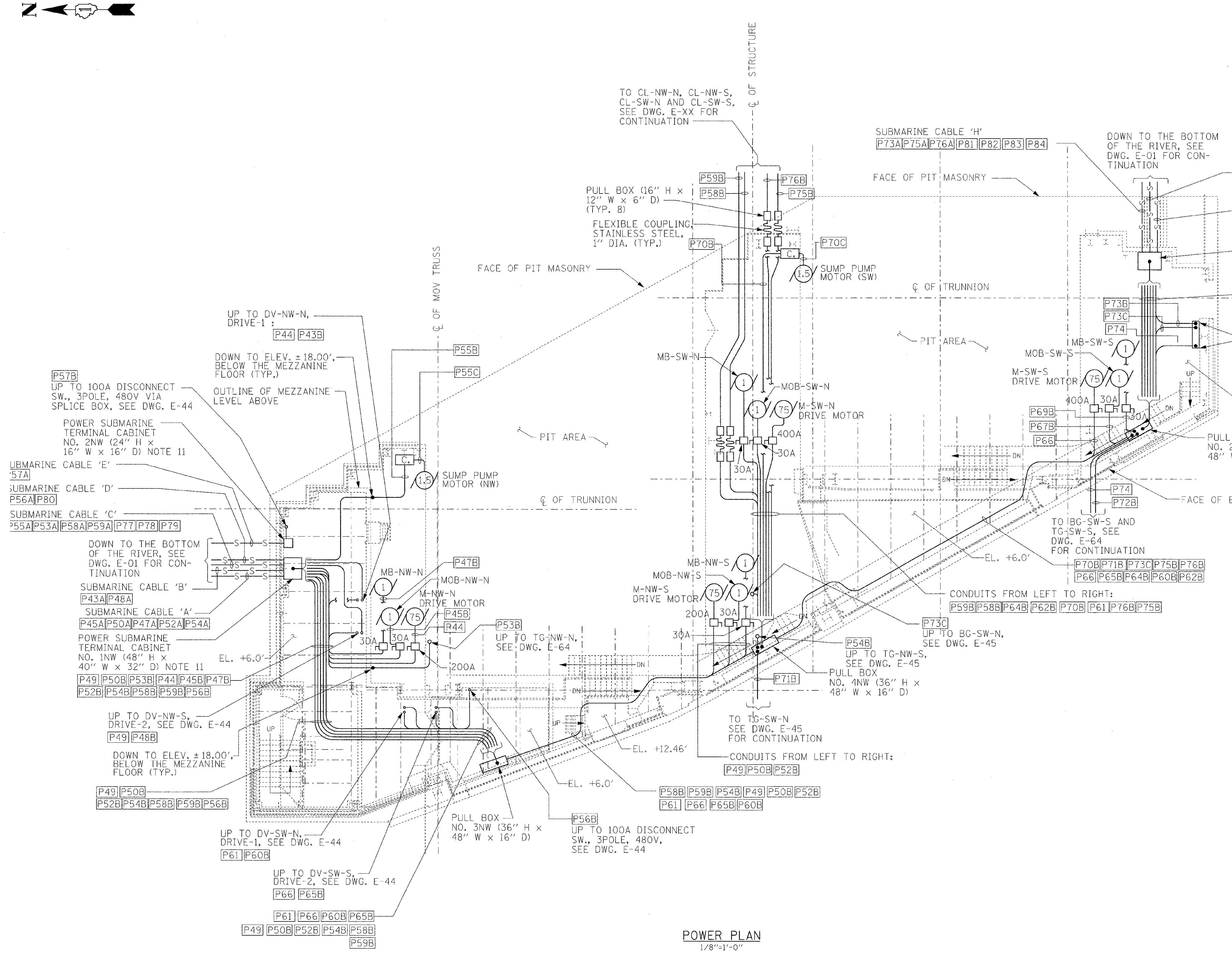
NOTE:

1. FOR CONTROL DESK LAYOUT SEE DWGS E-76 AND E-77.



EAST SIDE OPERATOR'S ROOM
PLAN
1/2"=1'-0"

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma FILE NAME = D160d61-sht-elc-42.dgn PLOT SCALE = NONE PLOT DATE = 5/7/2009	DESIGNED - A. CENTENO DRAWN - S. SHARMA CHECKED - M. INTATANO DATE - MAY 8, 2009	REVISED - REVISED - REVISED - REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**POWER PLAN EAST SIDE OPERATOR'S ROOM** SCALE: AS SHOWN | SHEET NO. E-42 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28	F.A.P RTE. 389	SECTION 2424-2B-R	COUNTY COOK	TOTAL SHEETS 398	SHEET NO. 313
						FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 60D61	



POWER PLAN
1/8"=1'-0"

NOTES:

1. REFER TO DRAWINGS E-04 AND E-05 FOR ELECTRICAL SYMBOLS.
2. REFER TO DRAWING E-06 FOR ELECTRICAL ABBREVIATIONS.
3. REFER TO DWGS. E-02 AND E-03 FOR GENERAL ELECTRICAL NOTES.
4. ELECTRICAL EQUIPMENT SHOWN SOLID IS PLATFORM MOUNTED OR WALL MOUNTED AT ELEV. 6'-0".
5. ELECTRICAL CONDUITS SHOWN ARE SUSPENDED FROM EXISTING STRUCTURAL STEEL ABOVE DOCK ELEV. 6'-0" AND BELOW THE MEZZANINE ELEV. 20.073'.
6. ALL ELECTRICAL EQUIPMENT ENCLOSURES, PULL BOXES, JUNCTION BOXES AND TERMINAL CABINETS SHALL BE STAINLESS STEEL, TYPE 316 AND SHALL BE RATED NEMA 4X IN THE DOCK AREA.
7. ALL CONDUIT AND FITTINGS SHALL BE HOT- DIP GALVANIZED RIGID STEEL AND PVC COATED, AND POLYURETHANE COATED, UON IN THE DOCK AREA.
8. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL PULL BOXES REQUIRED TO FACILITATE THE ROUTING AND PULLING OF CONDUITS AND WIRES.
9. WHEREVER THE NUMBER OF CONDUIT BENDS EXCEED 180° AND NO SPLICE IS INVOLVED, CONTRACTOR SHALL USE MOGUL TYPE FITTINGS.
10. REFER TO DRAWINGS E-68 AND E-69 FOR CONDUIT AND WIRE SCHEDULES.
11. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF SUBMARINE CABLE TERMINAL BOX DETAILS.

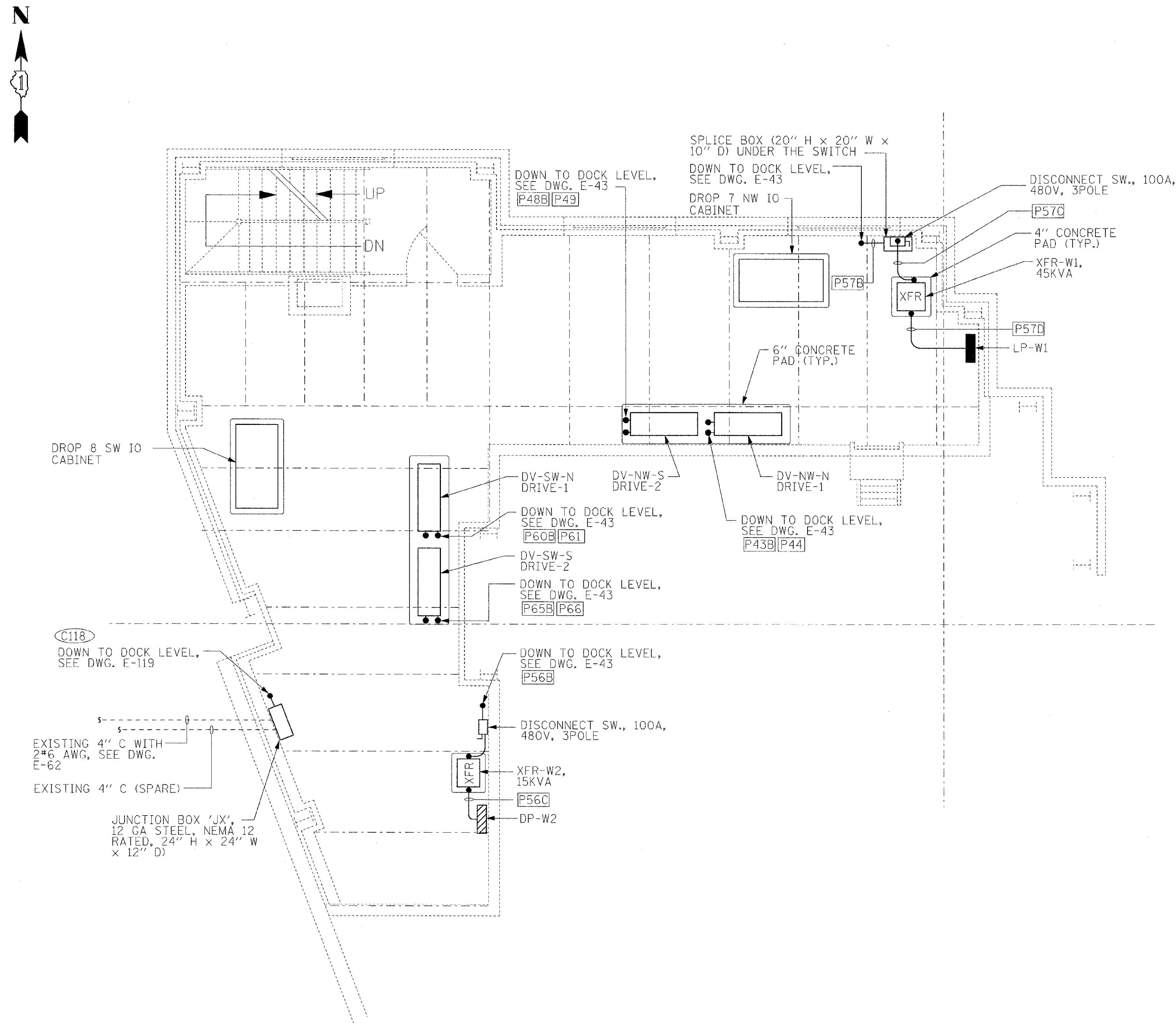
PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - A. CENTENO	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	FILE NAME = D16Ød61-sht-elc-43.dgn	DRAWN - S. SHARMA	REVISED -	
	PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -	
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

POWER PLAN
WEST SIDE DOCK LEVEL

SCALE: AS SHOWN | SHEET NO. E-43 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	314
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



POWER PLAN
1/4"=1'-0"

NOTES:

1. REFER TO DRAWINGS E-04 AND E-05 FOR ELECTRICAL SYMBOLS.
2. REFER TO DRAWING E-06 FOR ELECTRICAL ABBREVIATIONS.
3. REFER TO DWGS. E-02 AND E-03 FOR GENERAL ELECTRICAL NOTES.
4. ALL ELECTRICAL EQUIPMENT ENCLOSURES, PULL BOXES, JUNCTION BOXES AND TERMINAL CABINETS SHALL BE HOT-DIP GALVANIZED STEEL AND SHALL BE RATED NEMA 1 OR 12 IN THE MEZZANINE AREA.
5. ALL CONDUIT AND FITTINGS SHALL BE HOT-DIP GALVANIZED RIGID STEEL IN THE MEZZANINE AREA.
6. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL PULL BOXES REQUIRED TO FACILITATE THE ROUTING AND PULLING OF CONDUITS AND WIRES.
7. WHEREVER THE NUMBER OF CONDUIT BENDS EXCEED 180° AND NO SPLICE IS INVOLVED, CONTRACTOR SHALL USE MOGUL TYPE FITTINGS.
8. REFER TO DRAWINGS E-68 AND E-69 FOR CONDUIT AND WIRE SCHEDULES.
9. REFER TO DRAWING E-60 FOR ELECTRICAL EQUIPMENT ELEVATION.

PB Americas, Inc.
230 WEST MONROE STREET,
SUITE 900
CHICAGO, IL. 60606

USER NAME = sharma	DESIGNED - A. CENTENO	REVISED -	
FILE NAME = C160d61-sht-elc-44.dgn	DRAWN - S. SHARMA	REVISED -	
PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -	
PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

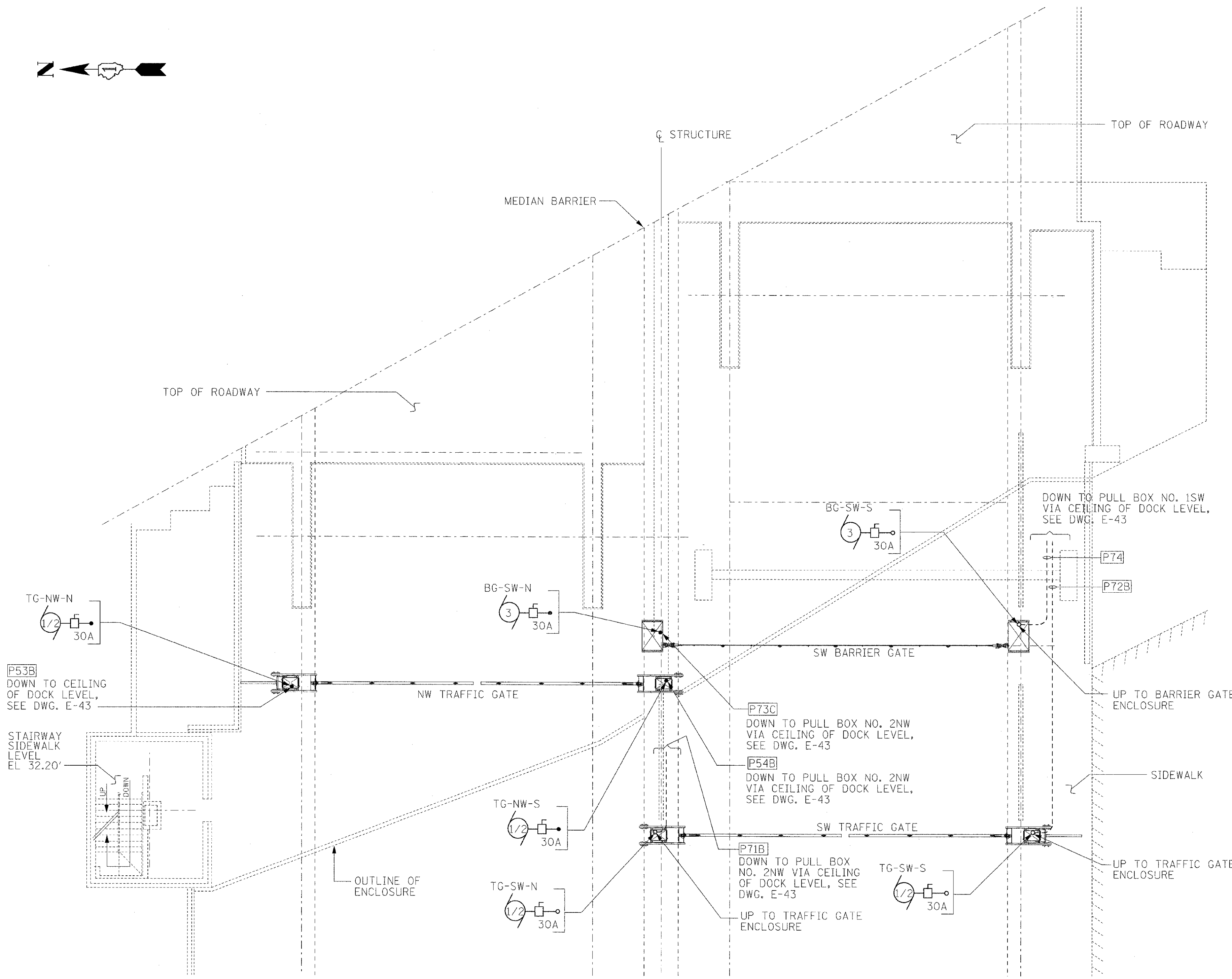
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

POWER PLAN
WEST SIDE MEZZANINE LEVEL

SCALE: AS SHOWN | SHEET NO. E-44 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	315
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



POWER PLAN
1/8"=1'-0"

NOTES:

1. REFER TO DRAWINGS E-04 AND E-05 FOR ELECTRICAL SYMBOLS.
2. REFER TO DRAWING E-06 FOR ELECTRICAL ABBREVIATIONS.
3. REFER TO DRAWING E-02 AND E-03 FOR GENERAL ELECTRICAL NOTES.
4. ELECTRICAL CONDUITS SHOWN DASHED ARE THE UNDER SIDEWALK SLAB BETWEEN STRINGERS AND UNDER THE MEDIAN BARRIER BETWEEN STRINGERS.
5. ALL ELECTRICAL EQUIPMENT ENCLOSURES, PULL BOXES AND JUNCTION BOXES SHALL BE STAINLESS STEEL, TYPE 316 AND SHALL BE RATED NEMA 4X ABOVE OR UNDER THE VIADUCT.
6. ALL CONDUIT AND FITTINGS SHALL BE HOT- DIP GALVANIZED RIGID STEEL AND PVC COATED, AND POLYURETHANE COATED, ABOVE OR UNDER THE VIADUCT, UON.
7. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL PULL BOXES REQUIRED TO FACILITATE THE ROUTING AND PULLING OF CONDUITS AND WIRES.
8. WHEREVER THE NUMBER OF CONDUIT BENDS EXCEED 180° AND NO SPLICE IS INVOLVED, CONTRACTOR SHALL USE MOGUL TYPE FITTINGS.
9. REFER TO DRAWINGS E-68 AND E-69 FOR CONDUIT AND WIRE SCHEDULES.
10. REFER TO MECHANICAL DRAWING M-26 FOR EXACT LOCATIONS OF TRAFFIC AND BARRIER GATES.

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - A. CENTENO	REVISED -
	FILE NAME = D160d61-sht-elc-45.dgn	DRAWN - S. SHARMA	REVISED -
	PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

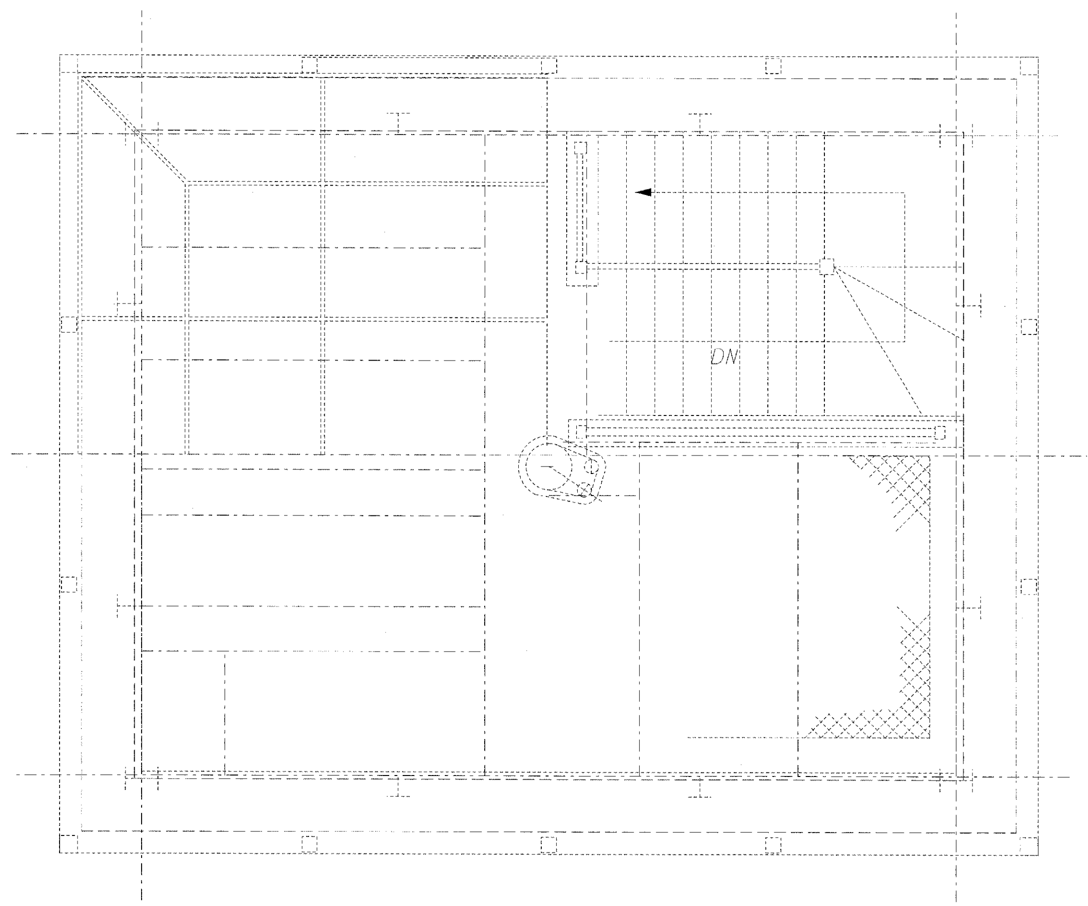
POWER PLAN
WEST SIDE SIDEWALK LEVEL

SCALE: AS SHOWN | SHEET NO. E-45 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	316

CONTRACT NO. 60D61

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



WEST SIDE OPERATOR'S ROOM
PLAN
1/2"=1'-0"

PB Americas, Inc.
230 WEST MONROE STREET,
SUITE 900
CHICAGO, IL. 60606

USER NAME = sharma	DESIGNED - A. CENTENO	REVISED -
FILE NAME = D160c61-sht-elc-46.dgn	DRAWN - S. SHARMA	REVISED -
PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -
PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -

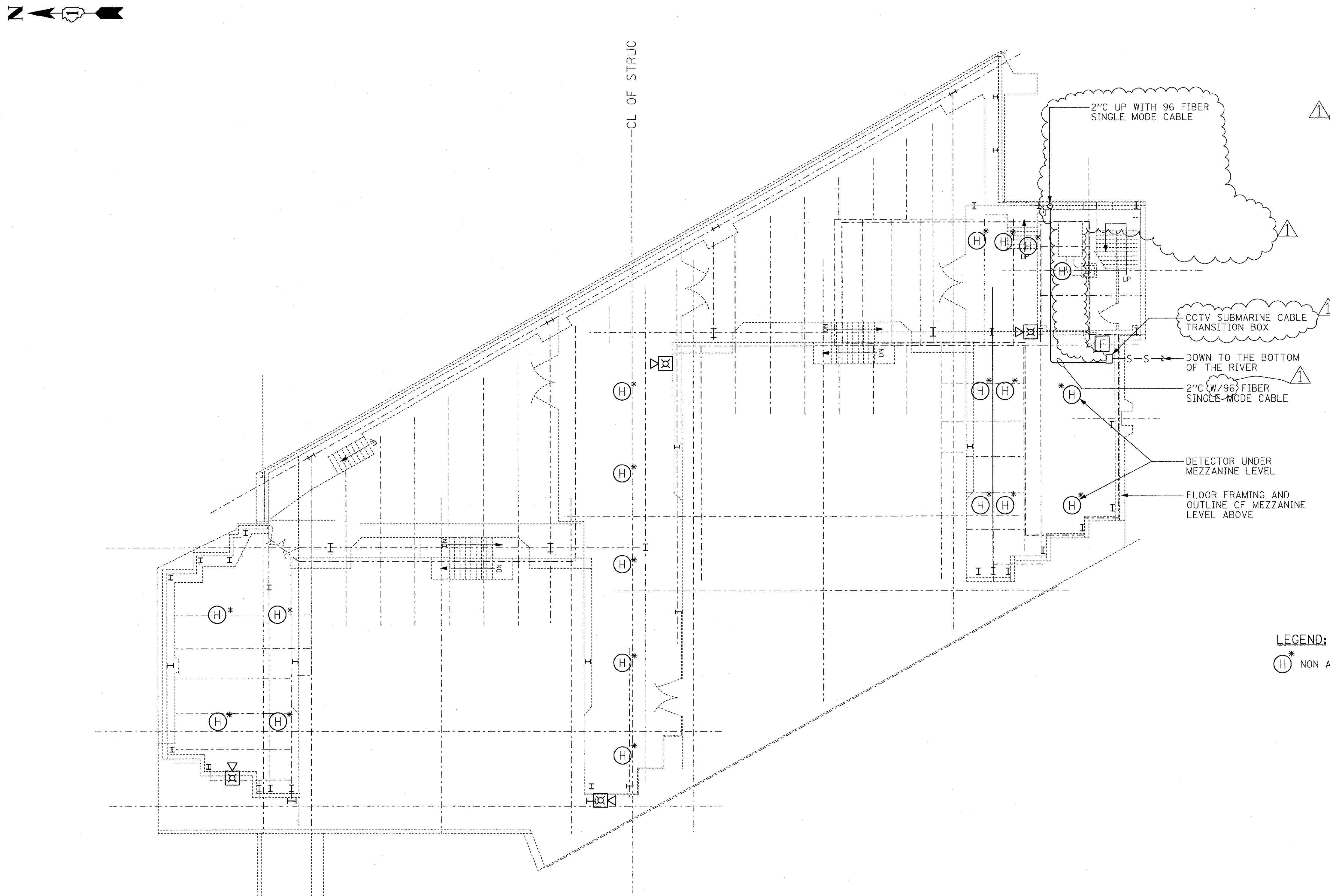
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

POWER PLAN
WEST SIDE OPERATOR'S ROOM

SCALE: AS SHOWN	SHEET NO. E-46 OF E-125 SHEETS	STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	317
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



NOTES:

1. FOR ELECTRICAL SYMBOLS SEE DWGS. E-04 & E-05.
2. FOR ABBREVIATIONS SEE DWG E-06.
3. FOR GENERAL NOTES SEE DWGS. E-02 & E03.
4. FOR FIRE ALARM RISER DIAGRAM, SEE DWG E-16.
5. FOR CCTV RISER DIAGRAM, SEE DWG E-17.
6. NOT USED.
7. FOR CCTV SUBMARINE CABINET ELEVATION SEE DWG E-50.

LEGEND:

H* NON ADDRESSABLE HEAT DETECTOR

AUXILIARY SYSTEMS PLAN
(1/8" = 1'-0")

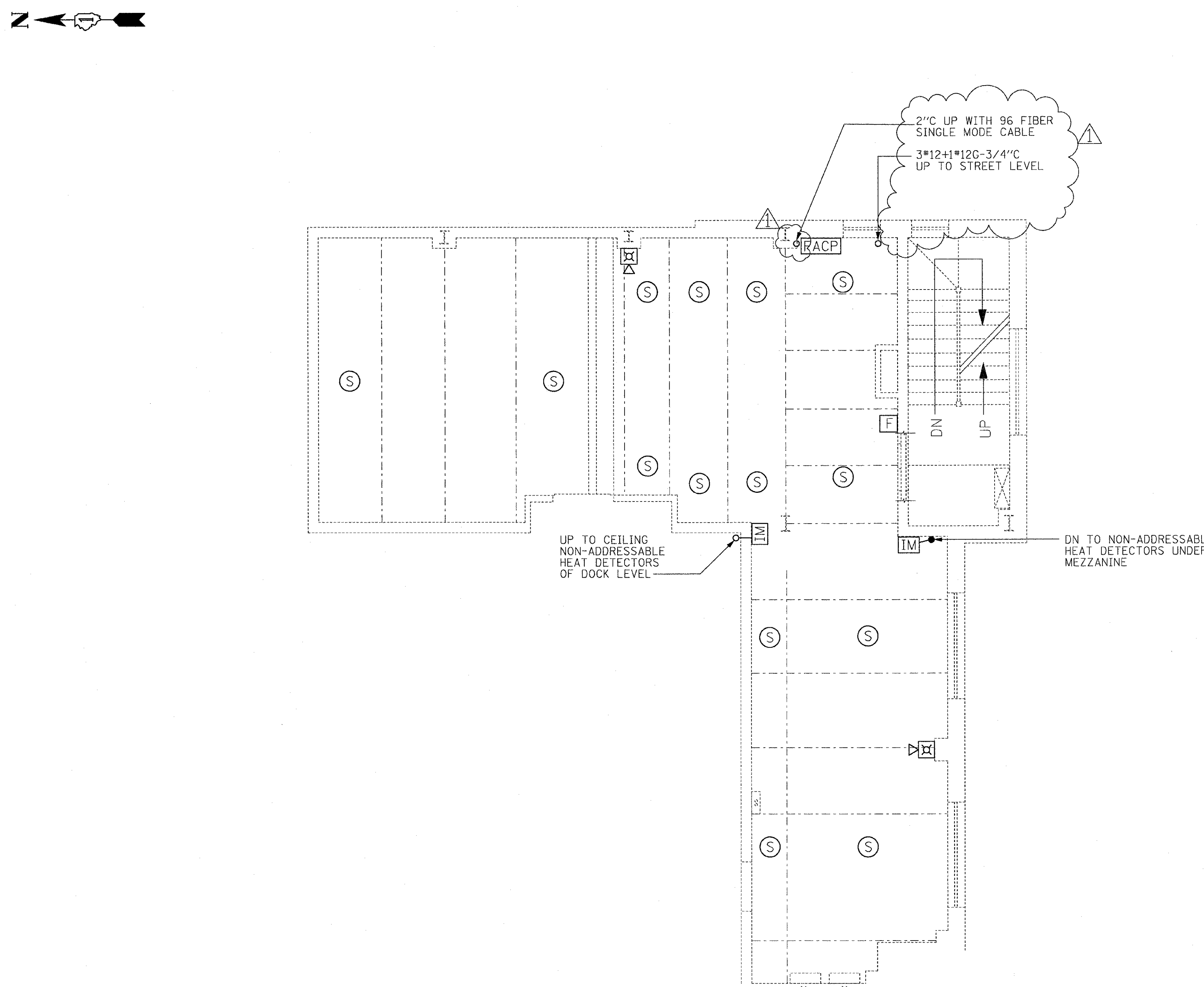
1 ADDENDUM - JULY 14, 2009

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - R. GODULIAS	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	FILE NAME = 0160d61-sht-elc-47.dgn	DRAWN - S. SHARMA	REVISED -	
	PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -	
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

AUXILIARY SYSTEMS PLAN
EAST SIDE DOCK LEVEL

SCALE: AS SHOWN	SHEET NO. E-47 OF E-125 SHEETS	STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	318
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT			



NOTES:

1. FOR ELECTRICAL SYMBOLS SEE DWGS. E-04 & E-05.
2. FOR ABBREVIATIONS SEE DWG E-06.
3. FOR GENERAL NOTES SEE DWGS. E-02 & E-03.
4. FOR FIRE ALARM RISER DIAGRAM, SEE DWG E-16.
5. FOR CCTV RISER DIAGRAM, SEE DWG E-17.

AUXILIARY SYSTEMS PLAN
1/4" = 1'-0"

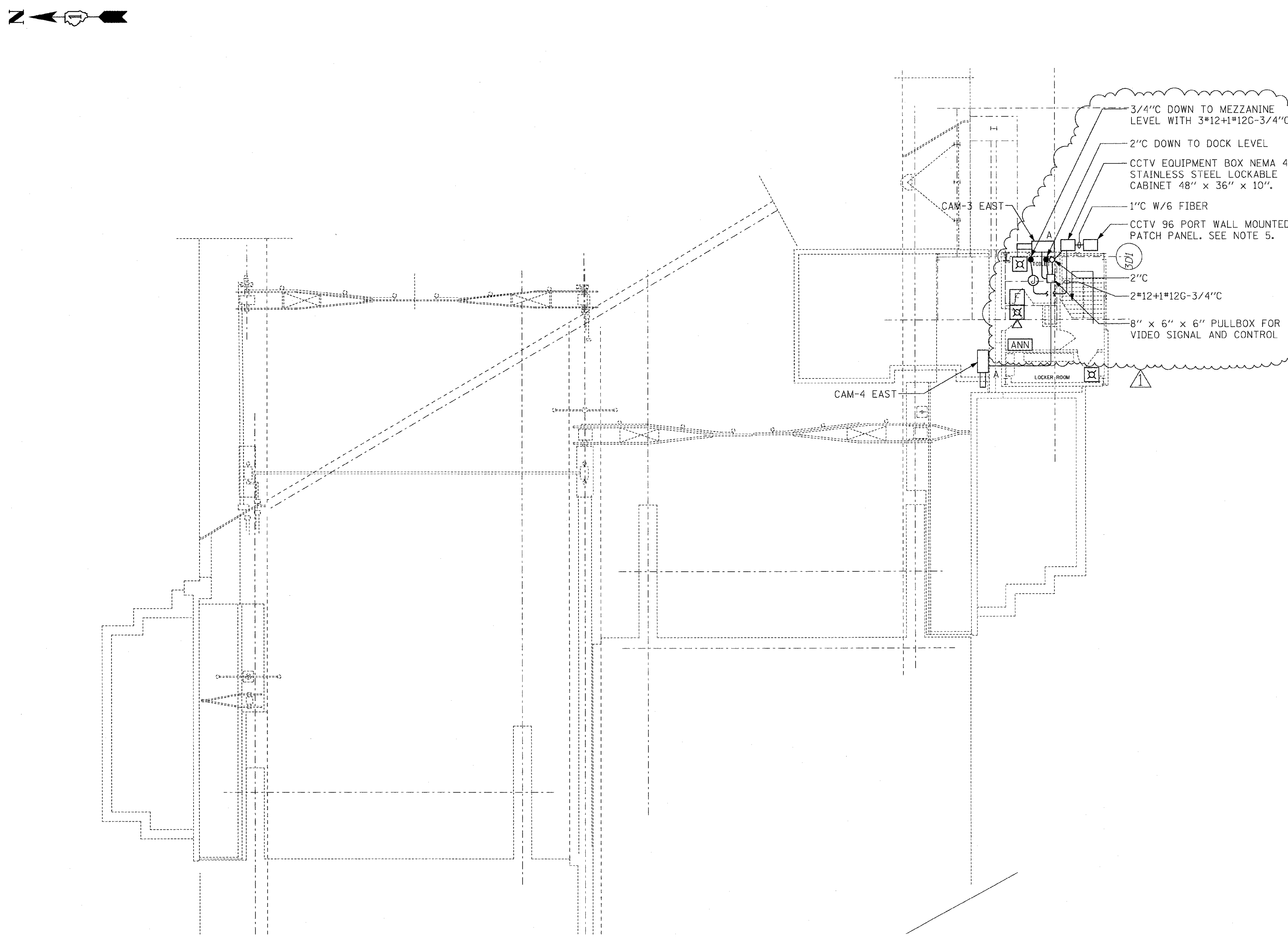
ADDENDUM - JULY 14, 2009

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - R. GODULIAS	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	FILE NAME = D160d61-sht-elo-48.dgn	DRAWN - S. SHARMA	REVISED -	
	PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -	
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

AUXILIARY SYSTEMS PLAN
EAST SIDE MEZZANINE LEVEL

SCALE: AS SHOWN	SHEET NO. E-48 OF E-125 SHEETS	STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	319
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTES:

1. FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS SEE DWGS E-04, E-05 AND E-06.
2. FOR GENERAL NOTES SEE DWG E-02 AND E-03.
3. FOR FIRE ALARM RISER DIAGRAM, SEE DWG E-16.
4. FOR CCTV RISER DIAGRAM, SEE DWG E-17.
5. NEMA 4X STAINLESS STEEL LOCKABLE CABINET 48" x 36" x 10". SIZE TO BE DETERMINED BY DEPARTMENT TIE-IN REQUIREMENTS.
6. FOR CCTV 96 PORT WALL MOUNTED PATCH PANEL ELEVATIONS SEE DWG E-54.

1

AUXILIARY SYSTEMS PLAN
1/8" = 1'-0"

1 ADDENDUM - JULY 14, 2009

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - R. GODULIAS	REVISED -
	FILE NAME = D160d61-sht-elc-49.dgn	DRAWN - S. SHARMA	REVISED -
	PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

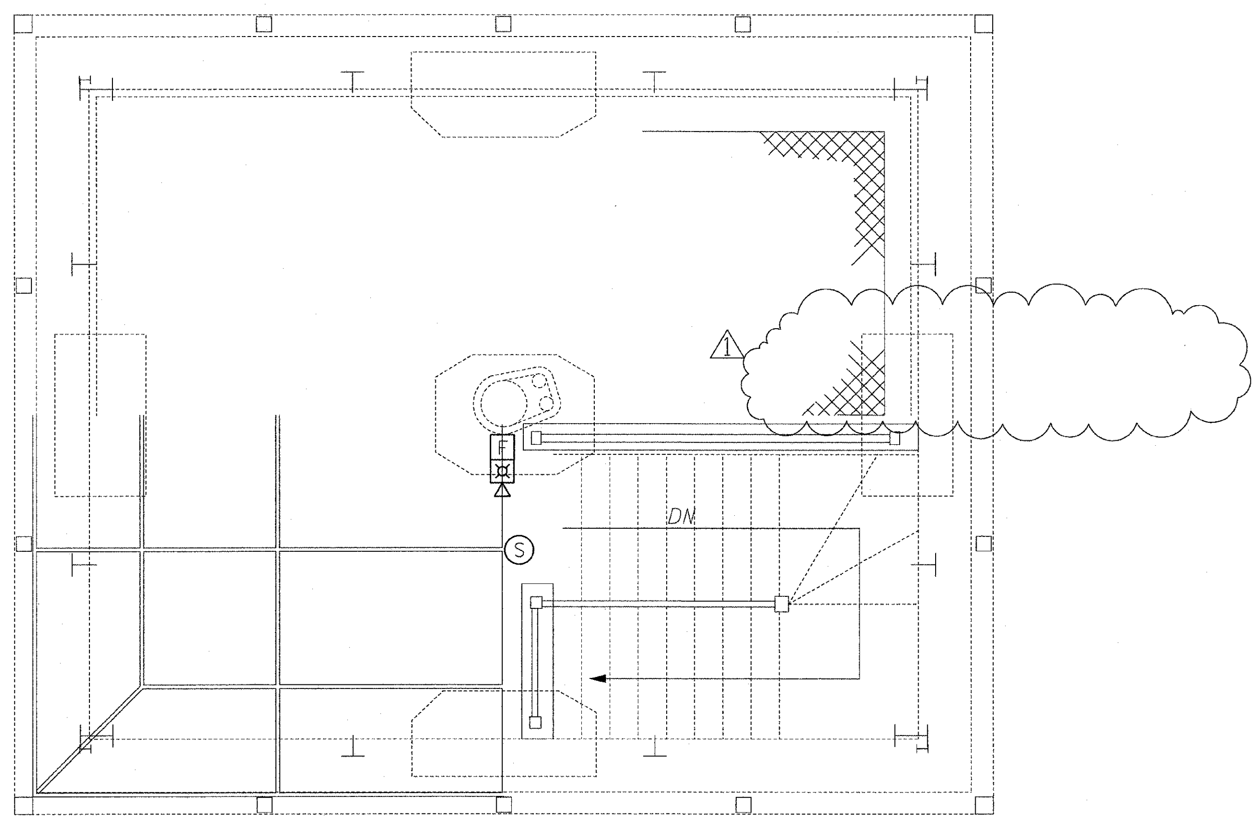
AUXILIARY SYSTEMS PLAN
EAST SIDE SIDEWALK LEVEL

SCALE: AS SHOWN | SHEET NO. E-49 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

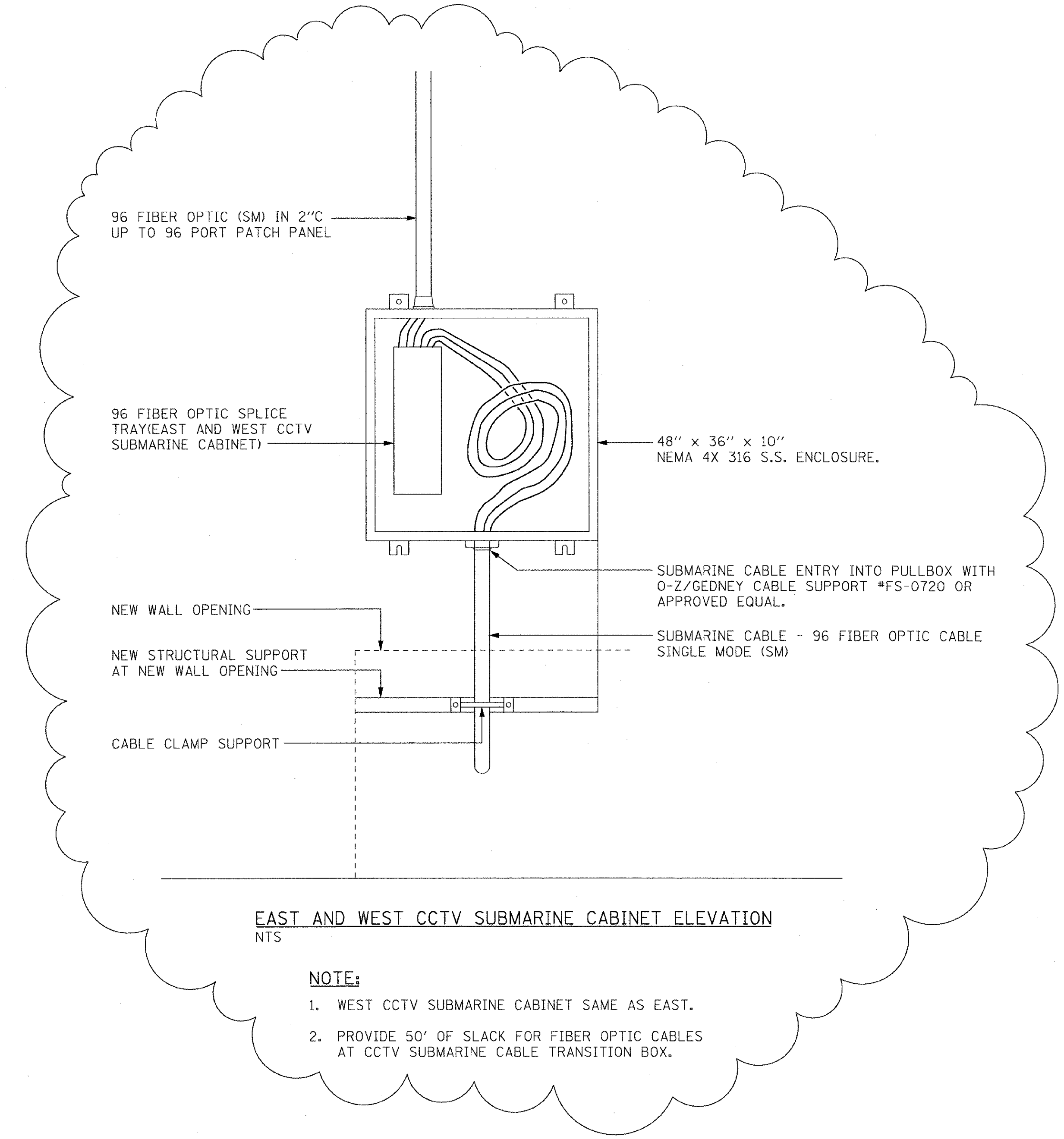
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	320
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

NOTES:

1. FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS SEE DWGS E-04, E-05 AND E-06.
2. FOR GENERAL NOTES SEE DWGS E-02 AND E-03.
3. FOR FIRE ALARM RISER DIAGRAM SEE DWG E-16.
4. FOR CCTV RISER DIAGRAM SEE DWG E-17.



AUXILIARY SYSTEMS PLAN
1/2" = 1'-0"



EAST AND WEST CCTV SUBMARINE CABINET ELEVATION
NTS

NOTE:

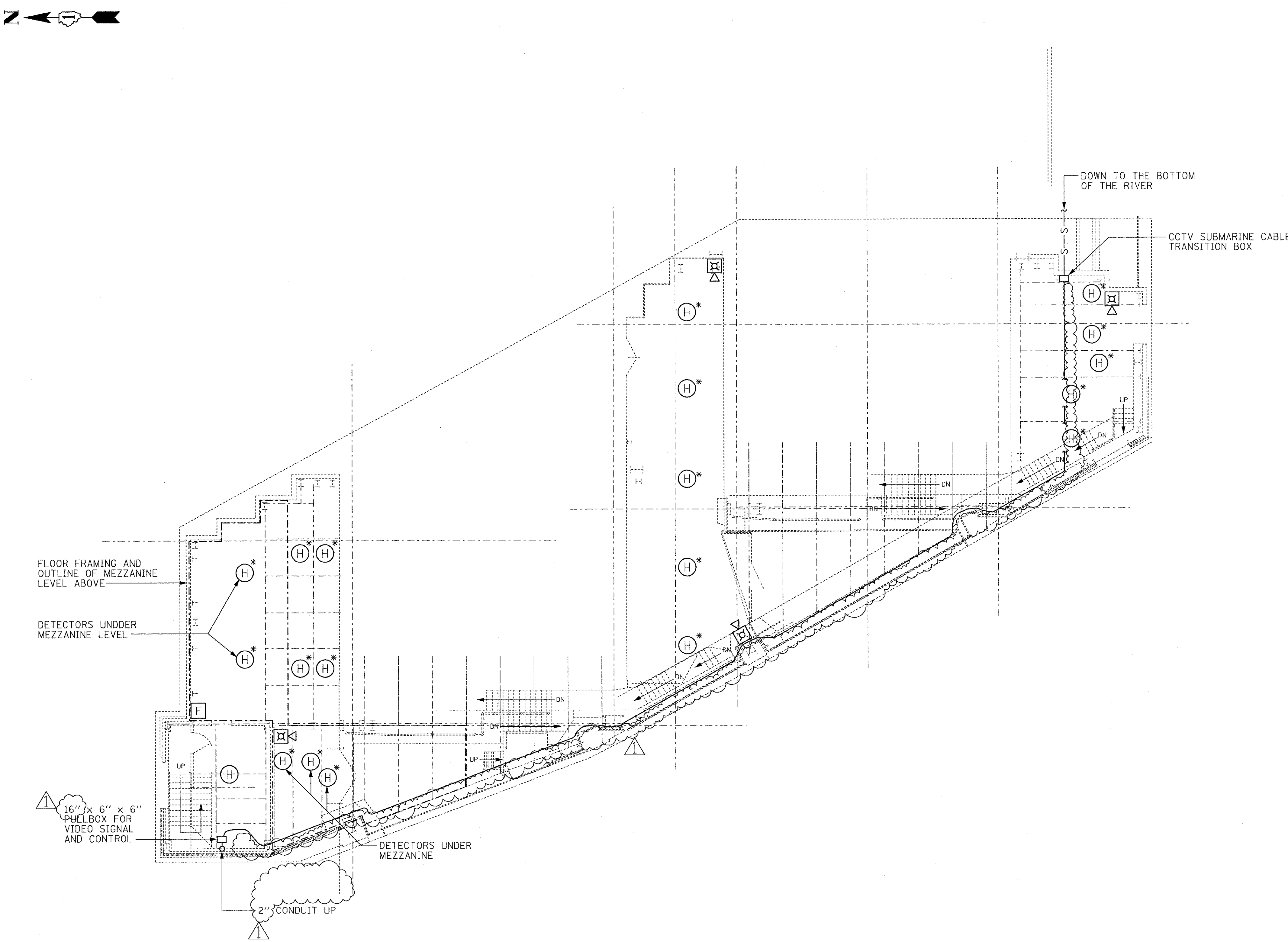
1. WEST CCTV SUBMARINE CABINET SAME AS EAST.
2. PROVIDE 50' OF SLACK FOR FIBER OPTIC CABLES AT CCTV SUBMARINE CABLE TRANSITION BOX.

1 ADDENDUM - JULY 14, 2009

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - R. GODULIAS	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**AUXILIARY SYSTEMS PLAN EAST SIDE OPERATOR'S ROOM**	F.A.P RTE. 389	SECTION 2424-2B-R
	FILE NAME = D160d61-sht-elc-50.dgn	DRAWN - S. SHARMA	REVISED -			COUNTY COOK	TOTAL SHEETS 398 / SHEET NO. 321
	PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -		SCALE: AS SHOWN	CONTRACT NO. 60D61	
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -		SHEET NO. E-50 OF E-125 SHEETS / STA. 379+06.09 TO STA. 382+45.28	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

NOTES:

1. FOR ELECTRICAL SYMBOLS SEE DWG. E-04 & E-05.
2. FOR ABBREVIATIONS SEE DWG. E-06.
3. FOR GENERAL NOTES SEE DWGS. E-02.& E-03.
4. FOR FIRE ALARM RISER DIAGRAM, SEE DWG E-16.
5. FOR CCTV RISER DIAGRAM, SEE DWG E-17.
6. FOR CCTV SUBMARINE CABINET ELEVATION SEE DWG E-50.
7. CONDUIT AND FIBER OPTIC CABLE ROUTING IS SCHEMATIC. CONTRACTOR TO PROVIDE AND INSTALL 16" x 6" x 6" BOXES LIMITING CONDUIT BENDS TO 270°.



AUXILIARY SYSTEMS PLAN
1/8" = 1'-0"

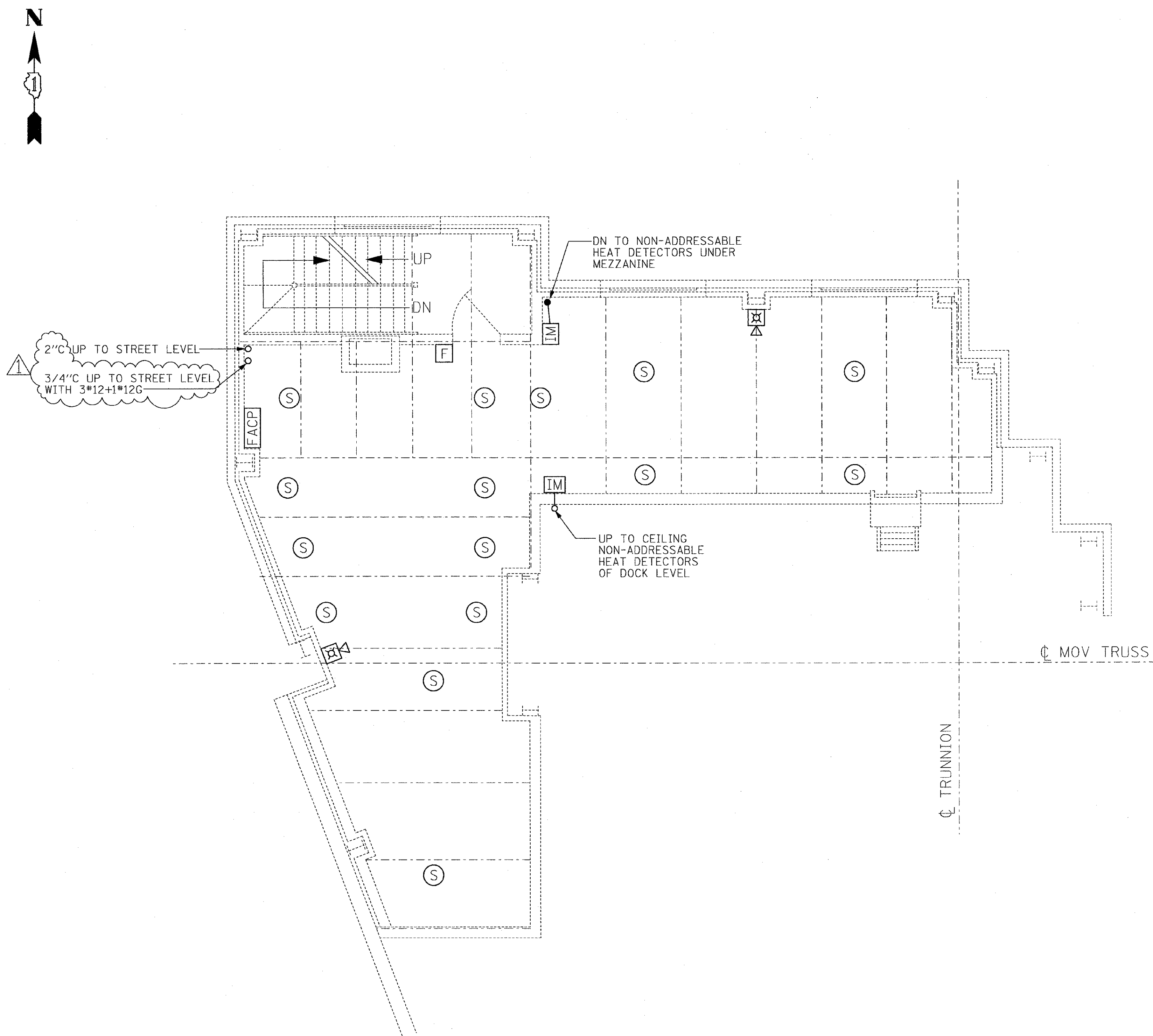
1 ADDENDUM - JULY 14, 2009

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - R. GODULIAS	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**AUXILIARY SYSTEMS PLAN WEST SIDE DOCK LEVEL**	
	FILE NAME = D160d61-sht-elc-51.dgn	DRAWN - S. SHARMA	REVISED -			
	PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -			
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -		SCALE: AS SHOWN	SHEET NO. E-51 OF E-125 SHEETS / STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	322
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

NOTES:

1. FOR ELECTRICAL SYMBOLS SEE DWGS. E-04 & E-05.
2. FOR ABBREVIATIONS SEE DWG. E-06.
3. FOR GENERAL NOTES SEE DWGS. E-02 & E-03.
4. FOR FIRE ALARM RISER DIAGRAM, SEE DWG E-16.
5. FOR CCTV RISER DIAGRAM, SEE DWG E-17.



AUXILIARY SYSTEMS PLAN - WEST SIDE MEZZANINE LEVEL

1/4" = 1'-0"

1 ADDENDUM - JULY 14, 2009

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - R. GODULIAS	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	FILE NAME = D162d61-sht-ele-52.dgn	DRAWN - S. SHARMA	REVISED -	
	PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -	
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

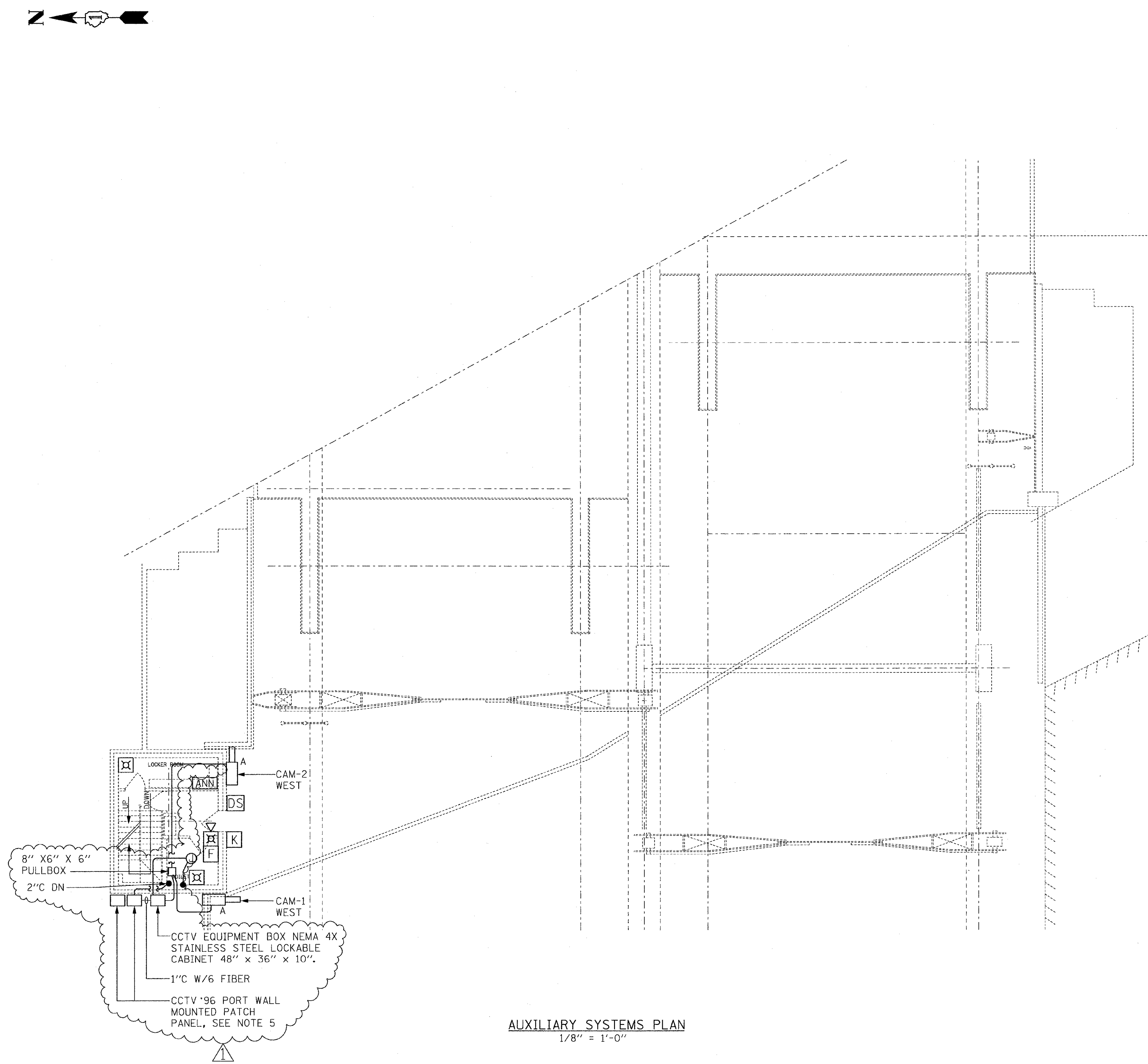
AUXILIARY SYSTEMS PLAN WEST SIDE MEZZANINE LEVEL		
SCALE: AS SHOWN	SHEET NO. E-52 OF E-125 SHEETS	STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	323
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

NOTES:

1. FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS SEE DWGS E-04, E-05 AND E-06.
2. FOR GENERAL NOTES SEE DWGS E-02 AND E-03.
3. FOR FIRE ALARM RISER DIAGRAM, SEE DWG E-16.
4. FOR CCTV RISER DIAGRAM, SEE DWG E-17.
5. NEMA 4X STAINLESS STEEL LOCKABLE CABINET 48"x36"x10". SIZE TO BE DETERMINED BY THE DEPARTMENT TIE-IN REQUIREMENTS.
6. FOR CCTV 96 PORT WALL MOUNTED PATCH PANEL ELEVATIONS SEE DWG E-54.

1



AUXILIARY SYSTEMS PLAN
1/8" = 1'-0"

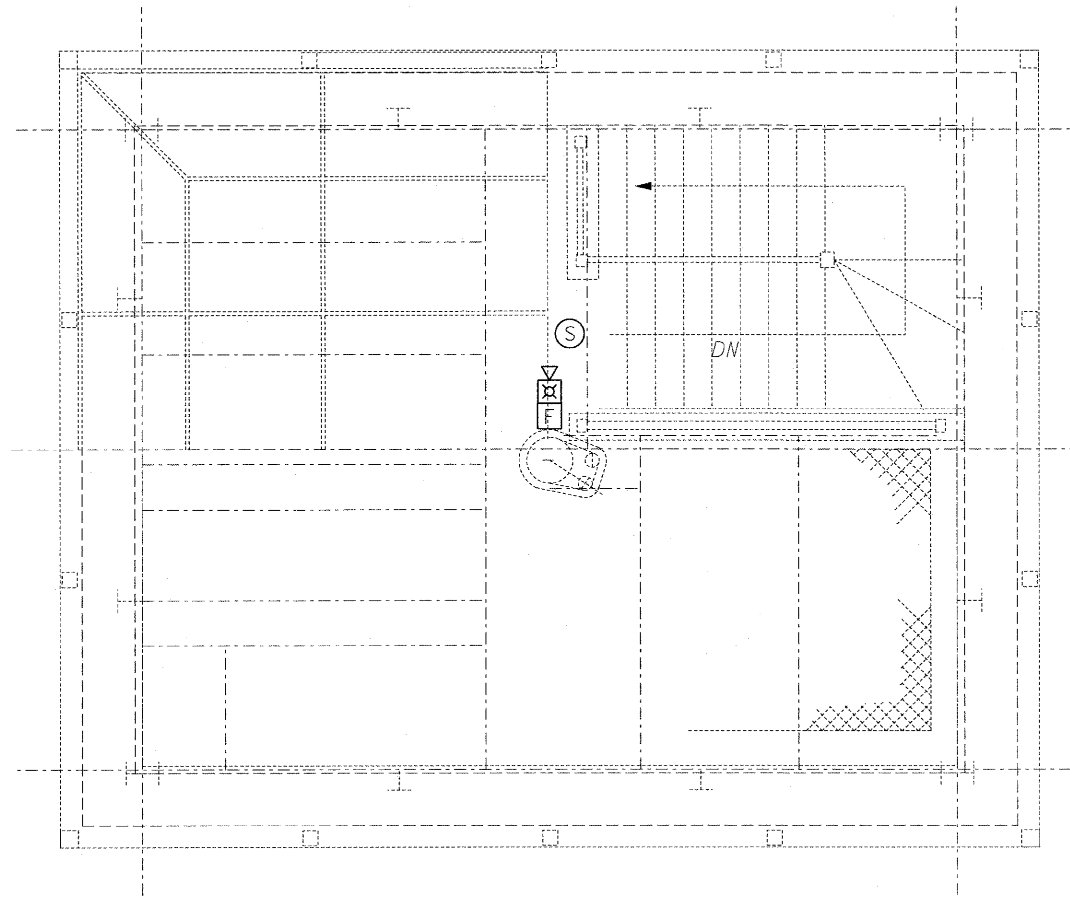
1 ADDENDUM - JULY 14, 2009

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - R. GODULIAS	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**AUXILIARY SYSTEMS PLAN WEST SIDE SIDEWALK LEVEL**
	FILE NAME = D160d61-sht-elc-53.dgn	DRAWN - S. SHARMA	REVISED -		
	PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -		
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -		SCALE: AS SHOWN / SHEET NO. E-53 OF E-125 SHEETS / STA. 379+06.09 TO STA. 382+45.28

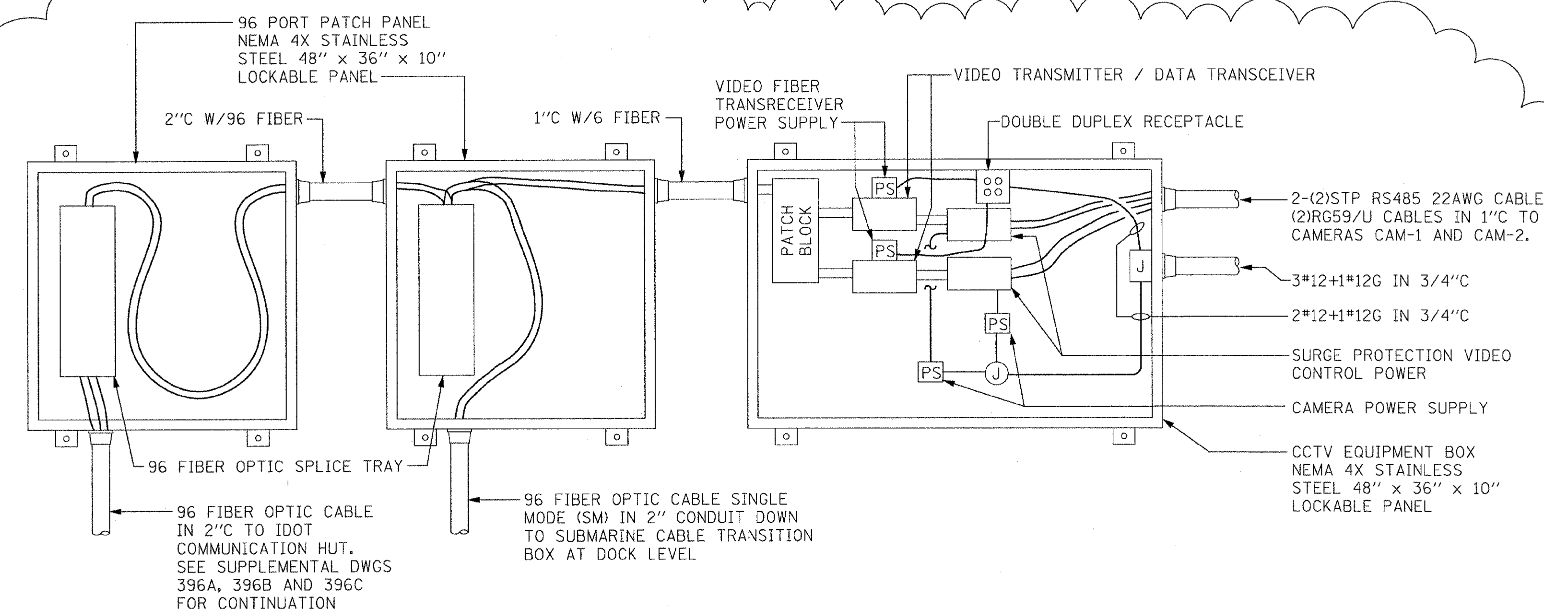
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	324
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

NOTES:

1. FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS SEE DWGS E-04, E-05 AND E-06.
2. FOR GENERAL NOTES SEE DWGS E-02 AND E-03.
3. FOR FIRE ALARM RISER DIAGRAM, SEE DWG E-16.
4. FOR CCTV RISER DIAGRAM, SEE DWG E-17.



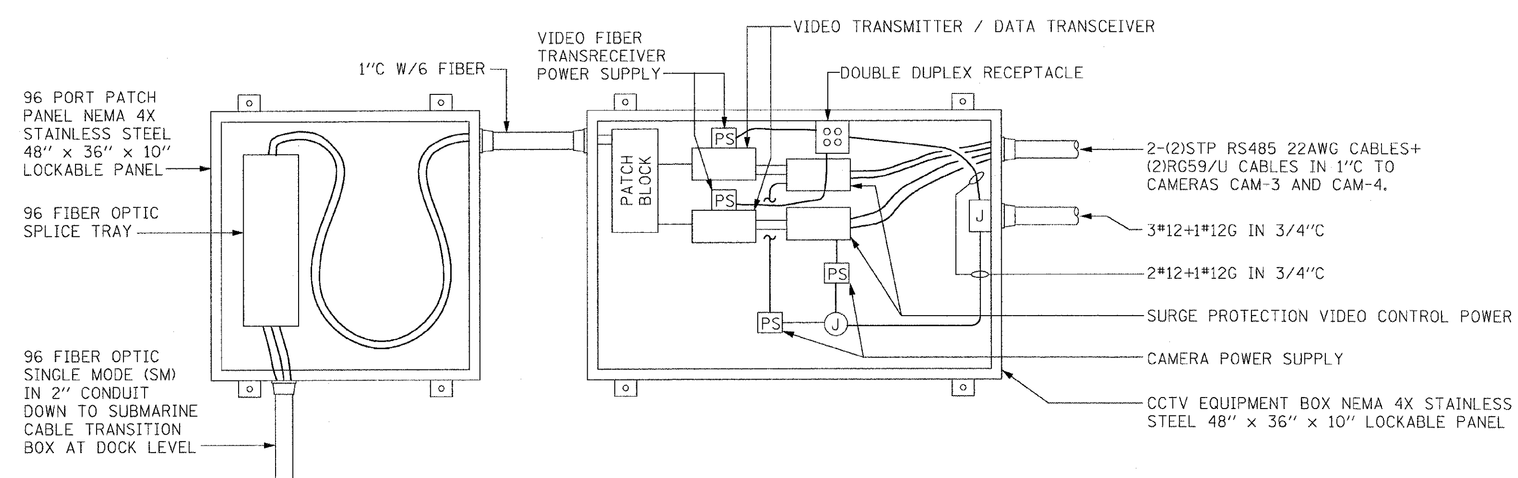
AUXILIARY SYSTEMS PLAN
1/2" = 1'-0"



WEST CCTV 96 PORT PATCH PANEL AND CCTV EQUIPMENT BOX ELEVATION
NTS

NOTES:

1. PROVIDE 50' OF SLACK FOR FIBER OPTIC CABLES AT 96 PORT PATCH PANEL.



EAST CCTV 96 PORT PATCH PANEL AND CCTV EQUIPMENT BOX ELEVATION
NTS

NOTES:

1. PROVIDE 50' OF SLACK FOR FIBER OPTIC CABLES AT 96 PORT PATCH PANEL.

1 ADDENDUM - JULY 14, 2009

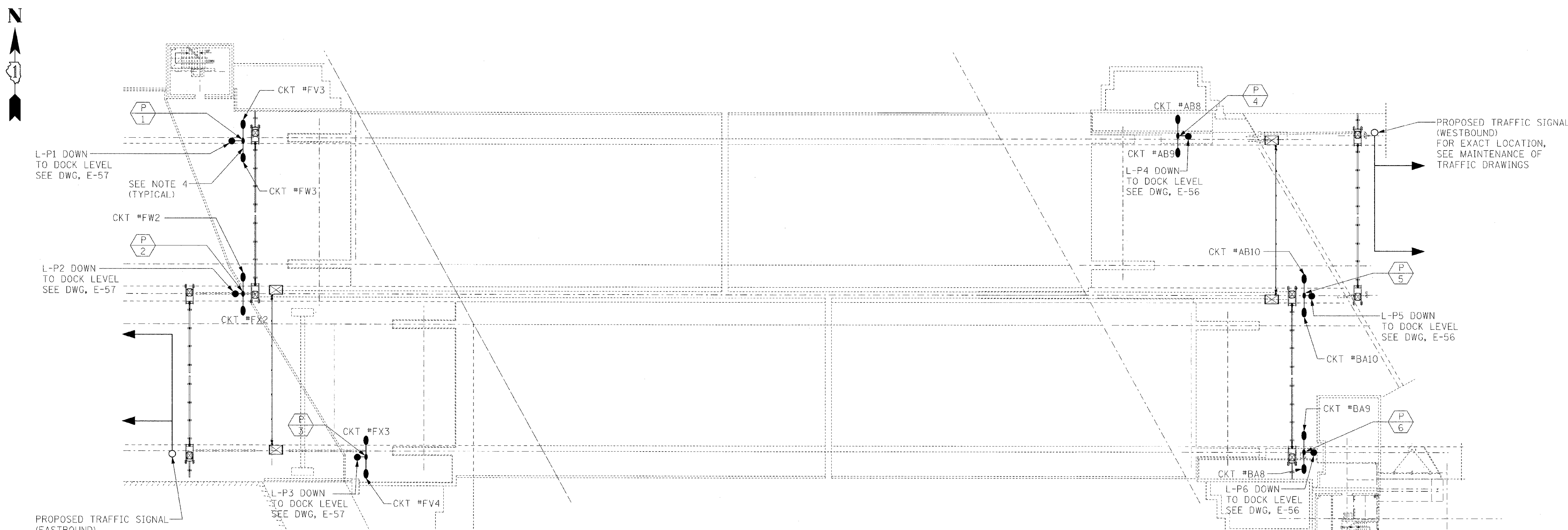
PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - R. GODULIAS	REVISED -
	FILE NAME = D162d61-sht-elc-54.dgn	DRAWN - S. SHARMA	REVISED -
	PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AUXILIARY SYSTEMS PLAN
WEST SIDE OPERATOR'S ROOM

SCALE: AS SHOWN | SHEET NO. E-54 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	325
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



PLAN
1/16"=1'-0"

POLE TAG	LOCATION	STATION	POLE MH	POLE MAST ARM LENGTH	LUMINAIRE WATTAGE
P 1	N.W. SIDEWALK	379+06.6	47.5'	3'	200W
P 2	MEDIAN WEST OF SPAN	379+05.3	47.5'	3'	200W
P 3	S.W. SIDEWALK	379+46.8	47.5'	3'	200W
P 4	N.E. SIDEWALK	381+90.5	47.5'	3'	200W
P 5	MEDIAN EAST OF SPAN	382+29.5	47.5'	3'	200W
P 6	S.W. SIDEWALK	382+31.1	47.5'	3'	200W

NOTES:

1. REFER TO DRAWING E-04 AND E-05 FOR SYMBOLS.
2. REFER TO DRAWING E-06 FOR ELECTRICAL ABBREVIATION.
3. REFER TO DRAWING E-02 AND E-03 FOR GENERAL ELECTRICAL NOTES.
4. REFER TO DRAWING E-58 FOR LIGHT POLE STANDARD DETAILS. ALL LIGHT POLE MAST ARM LENGTH SHALL BE 3'.
5. ALL LUMINAIRES SHALL BE RECONNECTED TO THE EXISTING CIRCUITS AS SHOWN ON THIS DRAWING.
6. REFER TO MECHANICAL DRAWING M-26 FOR EXACT LOCATIONS OF TRAFFIC AND BARRIER GATES.

CIRCUIT DESIGNATION:

CKT #FV3
- 3RD LUMINAIRE
- CIRCUIT "V"
- CABINET "F"

PB Americas, Inc.
230 WEST MONROE STREET,
SUITE 900
CHICAGO, IL. 60606

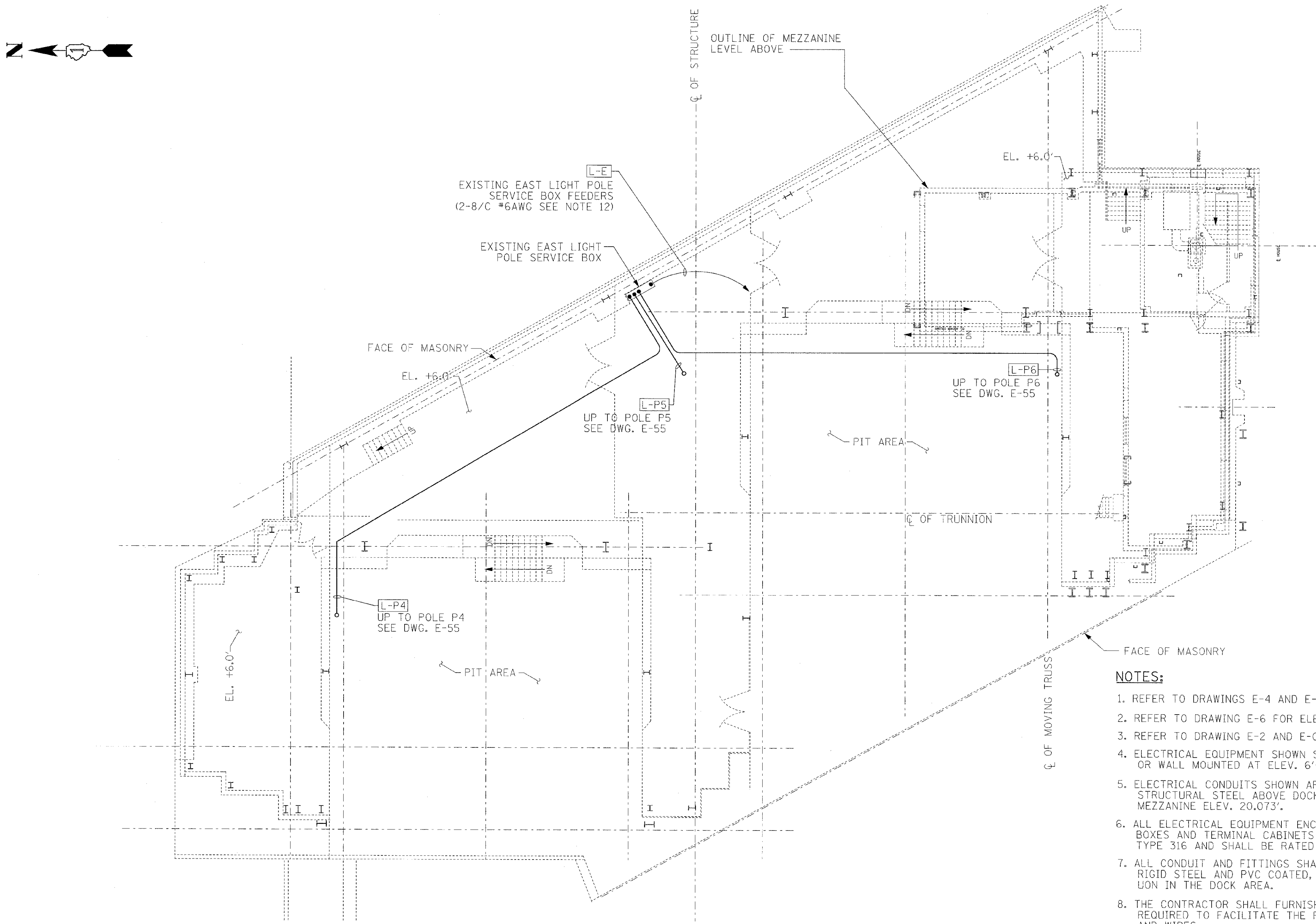
USER NAME = sharma	DESIGNED - D. RAFFINGTON	REVISED -	
FILE NAME = D160061-sht-elc-55.dgn	DRAWN - S. SHARMA	REVISED -	
PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -	
PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE ROADWAY LIGHTING
SIDEWALK LEVEL

SCALE: AS SHOWN | SHEET NO. E-55 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	326
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



PLAN
1/8"=1'-0"

NOTES:

1. REFER TO DRAWINGS E-4 AND E-5 FOR ELECTRICAL SYMBOLS.
2. REFER TO DRAWING E-6 FOR ELECTRICAL ABBREVIATIONS.
3. REFER TO DRAWING E-2 AND E-03 FOR GENERAL ELECTRICAL NOTES.
4. ELECTRICAL EQUIPMENT SHOWN SOLID IS PLATFORM MOUNTED OR WALL MOUNTED AT ELEV. 6'-0".
5. ELECTRICAL CONDUITS SHOWN ARE SUSPENDED FROM EXISTING STRUCTURAL STEEL ABOVE DOCK ELEV. 6'-0" AND BELOW THE MEZZANINE ELEV. 20.073'.
6. ALL ELECTRICAL EQUIPMENT ENCLOSURES, PULL BOXES, JUNCTION BOXES AND TERMINAL CABINETS SHALL BE STAINLESS STEEL, TYPE 316 AND SHALL BE RATED NEMA 4X IN THE DOCK AREA.
7. ALL CONDUIT AND FITTINGS SHALL BE HOT- DIP GALVANIZED RIGID STEEL AND PVC COATED, AND POLYURETHANE COATED, UON IN THE DOCK AREA.
8. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL PULL BOXES REQUIRED TO FACILITATE THE ROUTING AND PULLING OF CONDUITS AND WIRES.
9. WHEREVER THE NUMBER OF CONDUIT BENDS EXCEED 180° AND NO SPLICE IS INVOLVED, CONTRACTOR SHALL USE MOGUL TYPE FITTINGS.
10. REFER TO DRAWING E-70 FOR CONDUIT AND WIRE SCHEDULES.
11. REFER TO DRAWING E-55 FOR GENERAL LIGHTING SIDEWALK LEVEL PLAN.
12. EXISTING GALVANIZED STEEL CONDUIT TO EXISTING STREET LIGHTING CABINET LOCATED ON EAST WALL ON THE BRIDGE DOCK LEVEL SHALL REMAIN. CONDUIT CONTAIN 2-8/C #6AWG CABLES, ONE CABLE ON EACH SIDE OF ROADWAY, TO THE STREET LIGHTING CABINET.
13. REFER TO DRAWING E-55 FOR EXISTING LUMINAIRE CIRCUITS.
14. ALL CONDUITS AND WIRES FROM EXISTING LIGHT POLE SERVICE BOX TO LIGHT STANDARD STUB-UP LOCATIONS SHALL BE NEW.

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - D. RAFFINGTON	REVISED -
	FILE NAME = D160d61-sht-elo-56.dgn	DRAWN - D. RAFFINGTON	REVISED -
	PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -

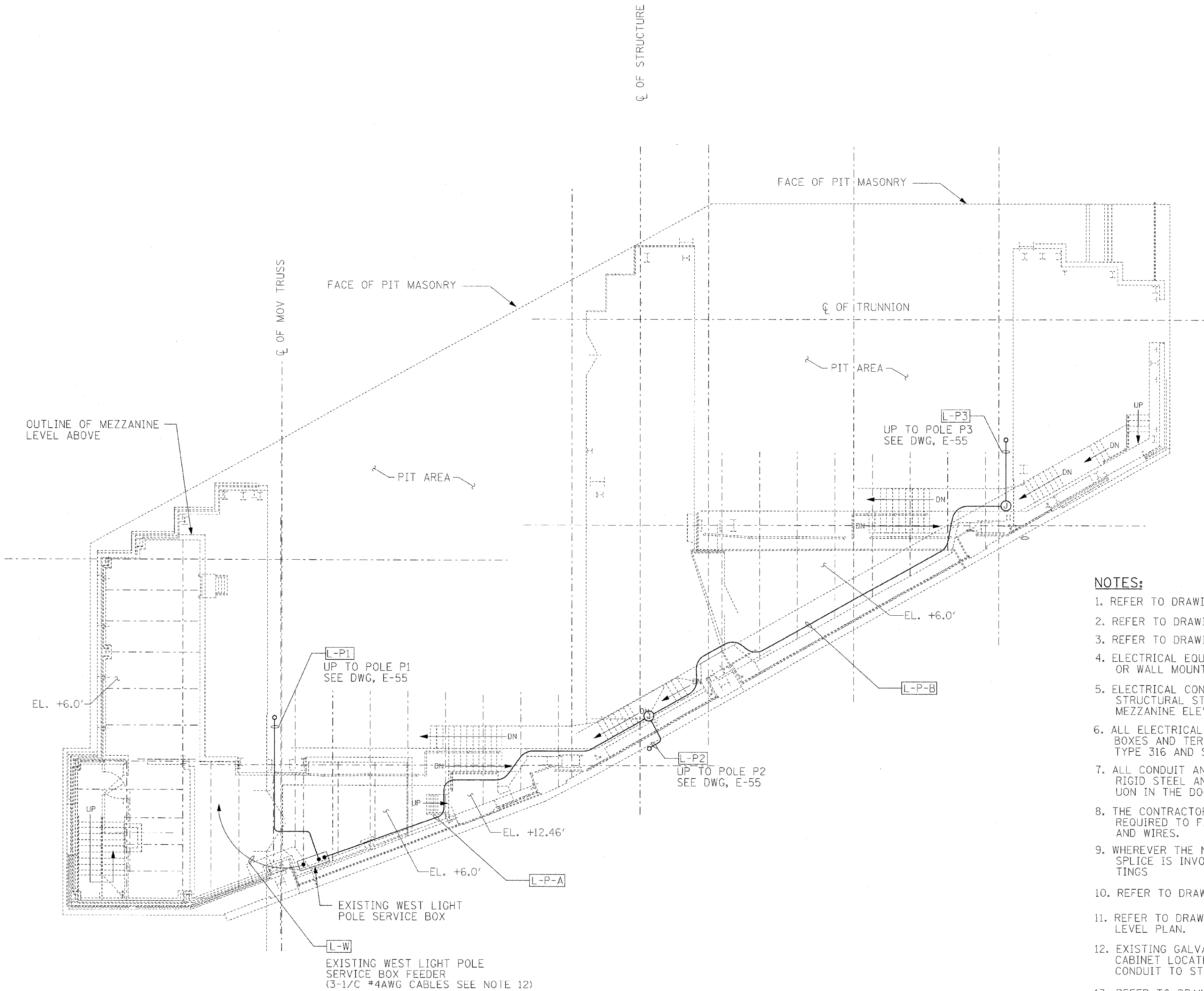
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE ROADWAY LIGHTING
CONDUIT PLAN – EAST SIDE DOCK LEVEL

SCALE: AS SHOWN | SHEET NO. E-56 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	327
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



PLAN
1/8"=1'-0"

NOTES:

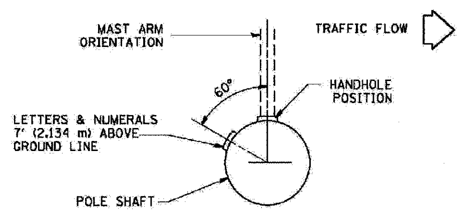
1. REFER TO DRAWINGS E-4 AND E-5 FOR ELECTRICAL SYMBOLS.
2. REFER TO DRAWING E-6 FOR ELECTRICAL ABBREVIATIONS.
3. REFER TO DRAWING E-2 AND E-03 FOR GENERAL ELECTRICAL NOTES.
4. ELECTRICAL EQUIPMENT SHOWN SOLID IS PLATFORM MOUNTED OR WALL MOUNTED AT ELEV. 6'-0".
5. ELECTRICAL CONDUITS SHOWN ARE SUSPENDED FROM EXISTING STRUCTURAL STEEL ABOVE DOCK ELEV. 6'-0" AND BELOW THE MEZZANINE ELEV. 20.073'.
6. ALL ELECTRICAL EQUIPMENT ENCLOSURES, PULL BOXES, JUNCTION BOXES AND TERMINAL CABINETS SHALL BE STAINLESS STEEL, TYPE 316 AND SHALL BE RATED NEMA 4X IN THE DOCK AREA.
7. ALL CONDUIT AND FITTINGS SHALL BE HOT- DIP GALVANIZED RIGID STEEL AND PVC COATED, AND POLYURETHANE COATED, UON IN THE DOCK AREA.
8. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL PULL BOXES REQUIRED TO FACILITATE THE ROUTING AND PULLING OF CONDUITS AND WIRES.
9. WHEREVER THE NUMBER OF CONDUIT BENDS EXCEED 180° AND NO SPLICE IS INVOLVED, CONTRACTOR SHALL USE MOGUL TYPE FITTINGS
10. REFER TO DRAWINGS E-70 FOR CONDUIT AND WIRE SCHEDULES.
11. REFER TO DRAWING E-55 FOR GENERAL LIGHTING SIDEWALK LEVEL PLAN.
12. EXISTING GALVANIZED STEEL CONDUIT TO EXISTING STREET LIGHTING CABINET LOCATED ON WEST WALL ON THE BRIDGE DOCK LEVEL SHALL REMAIN. CONDUIT TO STREET LIGHTING CABINET CONTAIN 3-1/C #4AWG CABLES.
13. REFER TO DRAWING E-55 FOR EXISTING LUMINAIRE CIRCUITS.
14. ALL CONDUITS AND WIRES FROM EXISTING LIGHT POLE SERVICE BOX TO LIGHT STANDARD STUB-UP LOCATION SHALL BE NEW.

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma FILE NAME = D168d61-sht-elo-57.dgn PLOT SCALE = NONE PLOT DATE = 5/7/2009	DESIGNED - D. RAFFINGTON DRAWN - D. RAFFINGTON CHECKED - M. INTATANO DATE - MAY 8, 2009	REVISED - REVISED - REVISED - REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**

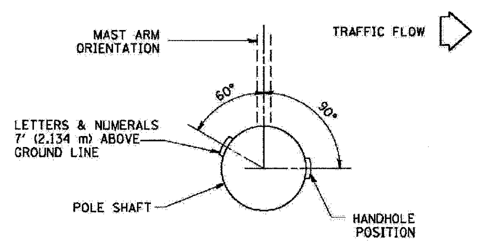
BRIDGE ROADWAY LIGHTING
CONDUIT PLAN - WEST SIDE DOCK LEVEL

SCALE: AS SHOWN	SHEET NO. E-57 OF E-125 SHEETS	STA. 379+06.09 TO STA. 382+45.28

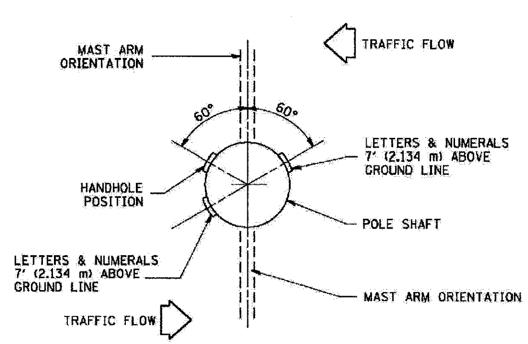
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	328
		CONTRACT NO. 60061		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



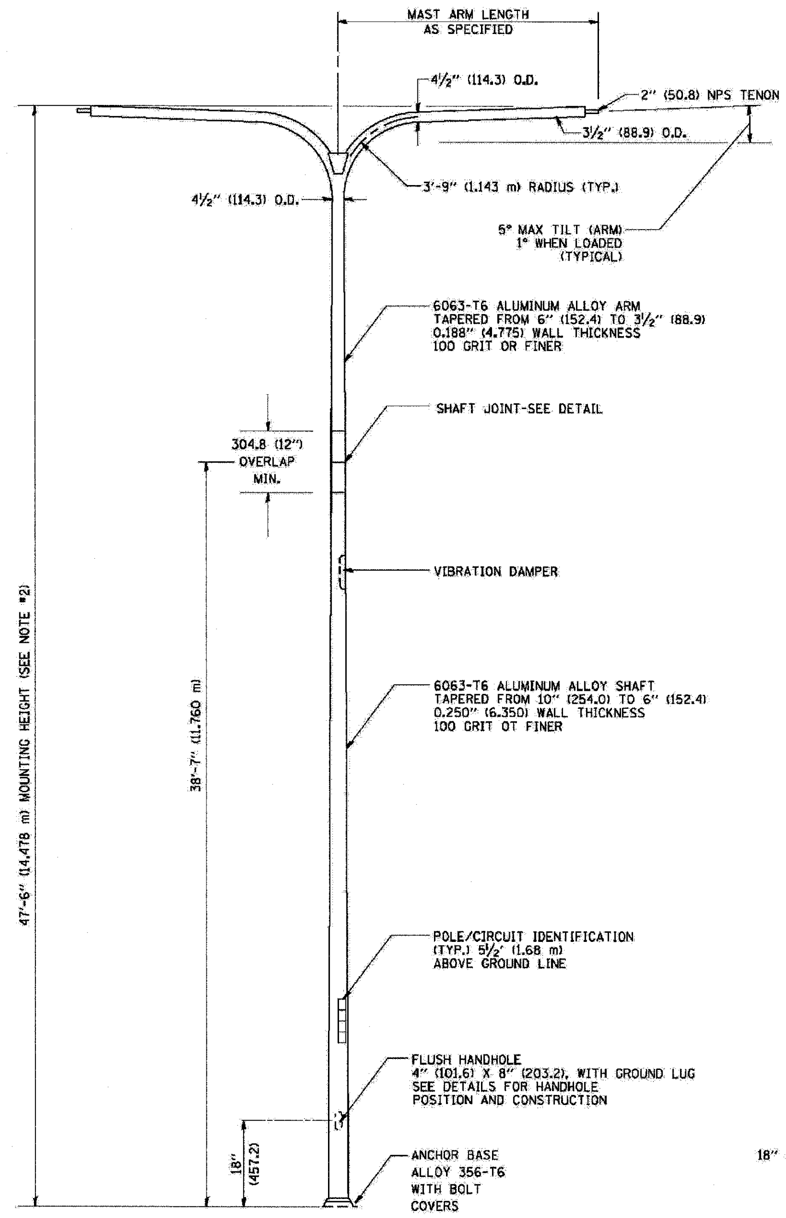
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL



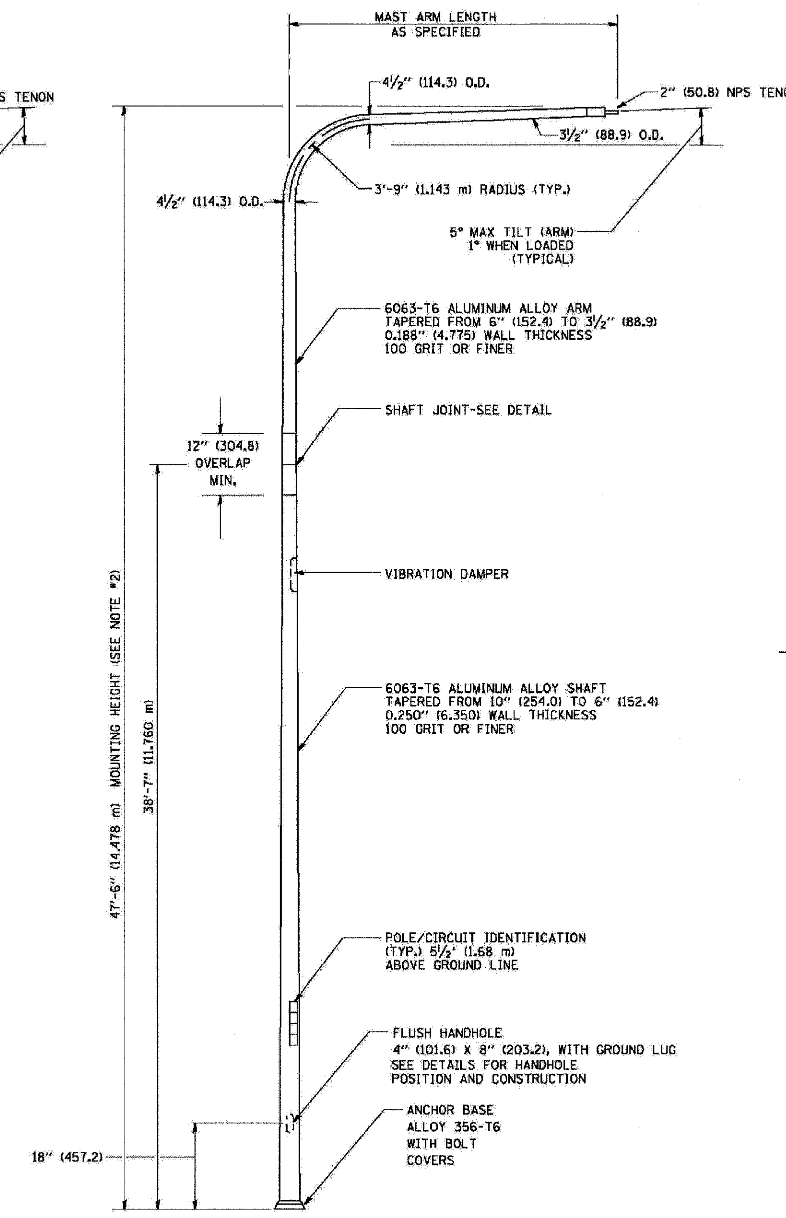
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES



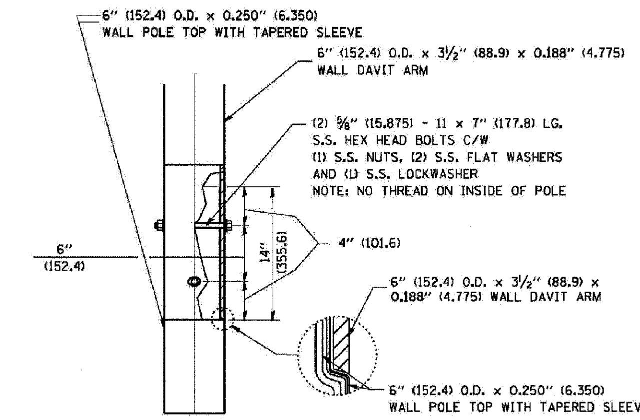
TWIN ARM POLE



SINGLE ARM POLE

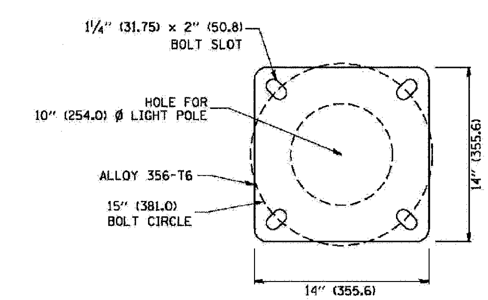
NOTES:

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
3. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
5. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR. BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
6. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
7. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
8. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



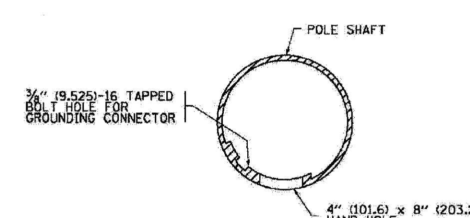
DAVIT ARM CONNECTION

[14" (355.6) OVERLAP SHOWN]



LIGHT POLE BASE PLATE DETAIL

(FOR POLE MOUNTED ON 15 INCH (381.0) BOLT CIRCLE FOUNDATION)



HANDHOLE DETAIL

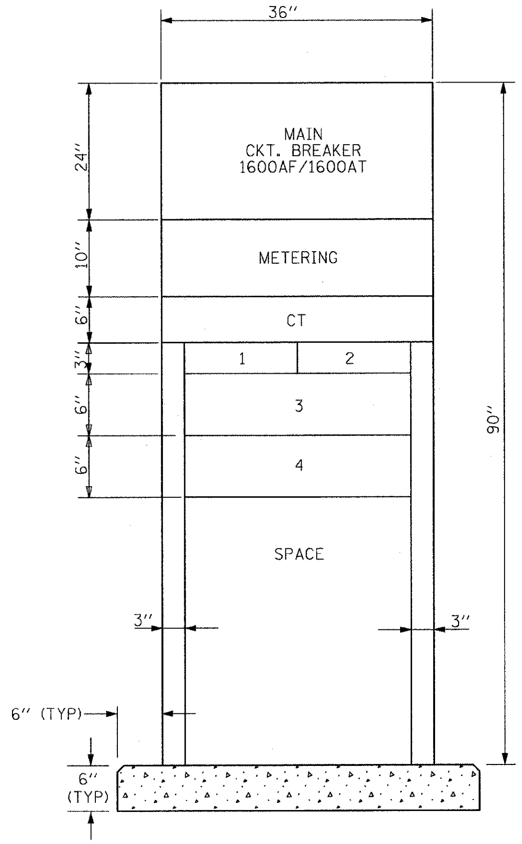
(N.T.S.)

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - D. RAFFINGTON	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	FILE NAME = D16D061-sht-elc-58.dgn	DRAWN - S. SHARMA	REVISED -	
	PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -	
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

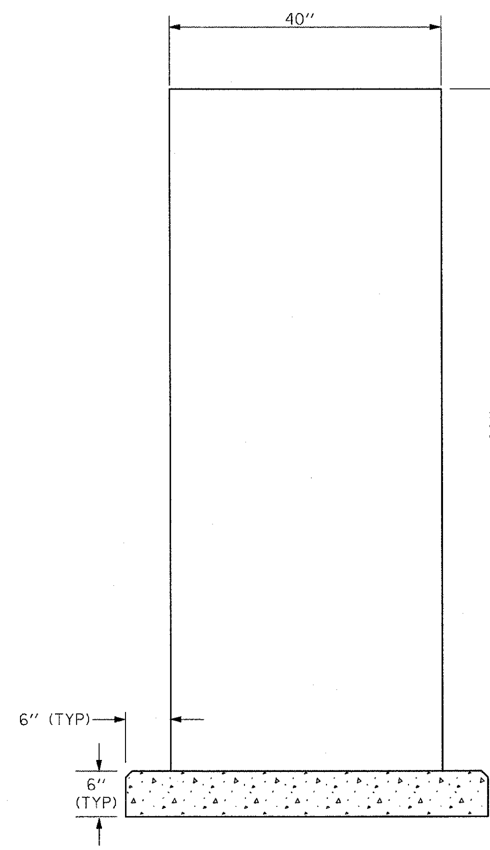
BRIDGE ROADWAY LIGHTING
LIGHTING POLE AND MOUNTING DETAILS

SCALE: AS SHOWN	SHEET NO. E-58 OF E-125 SHEETS	STA. 379+06.09 TO STA. 382+45.28

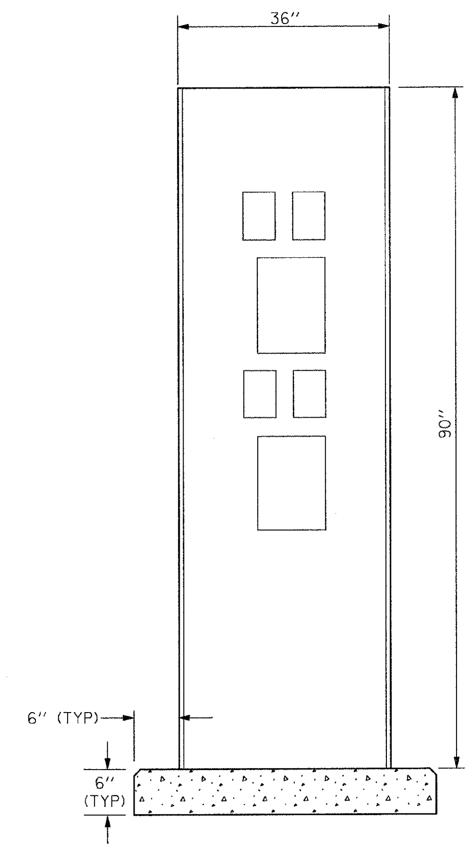
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	329
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



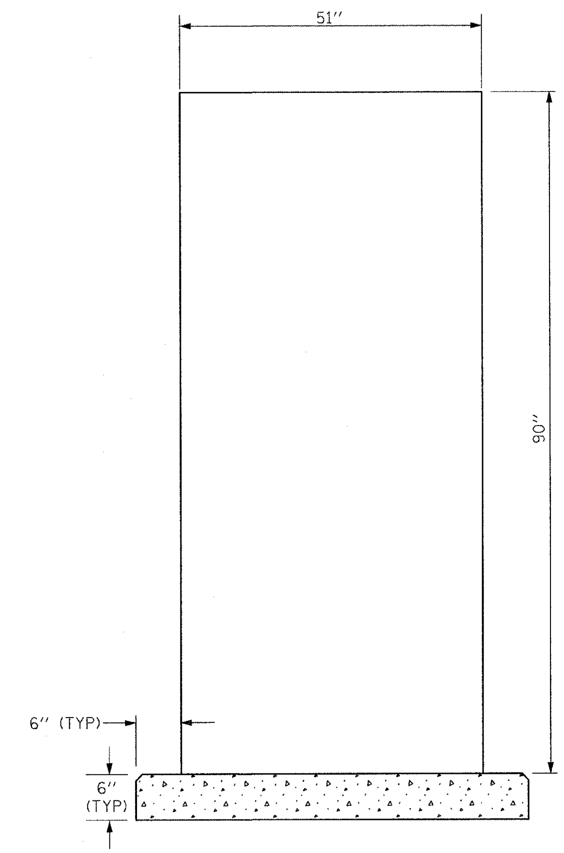
MAIN SWITCHBOARD FRONT ELEVATION



SIDE ELEVATION



AUTOMATIC TRANSFER SWITCH
FRONT ELEVATION



SIDE ELEVATION

NOTES:

1. THE MAIN SWITCHBOARD SHALL BE RATED 1600A MAINS, 480V, 3PHASE, 4WIRE, 60 HERTZ WITH AN INTERRUPTING RATING OF 65,000 RMS SYMMETRICAL AMPERES AND SHALL BE MANUFACTURED BY EATON'S CUTLER - HAMMER, TYPE 1, POW-R-LINE C, FRONT ACCESSIBLE GROUP MOUNTED FEEDERS OR APPROVED EQUAL. REFER TO DWG. E-64 FOR SWITCHBOARD SCHEDULE.
2. THE AUTOMATIC TRANSFER SWITCH SHALL BE RATED 1600A, 480V, 3POLE, OPEN TRANSITION TYPE, NEMA 4 ENCLOSURE.

PB Americas, Inc.
230 WEST MONROE STREET,
SUITE 900
CHICAGO, IL. 60606

USER NAME = sharma	DESIGNED - A. CENTENO	REVISED -	
FILE NAME = D160d61-sht-elc-59.dgn	DRAWN - S. SHARMA	REVISED -	
PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -	
PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

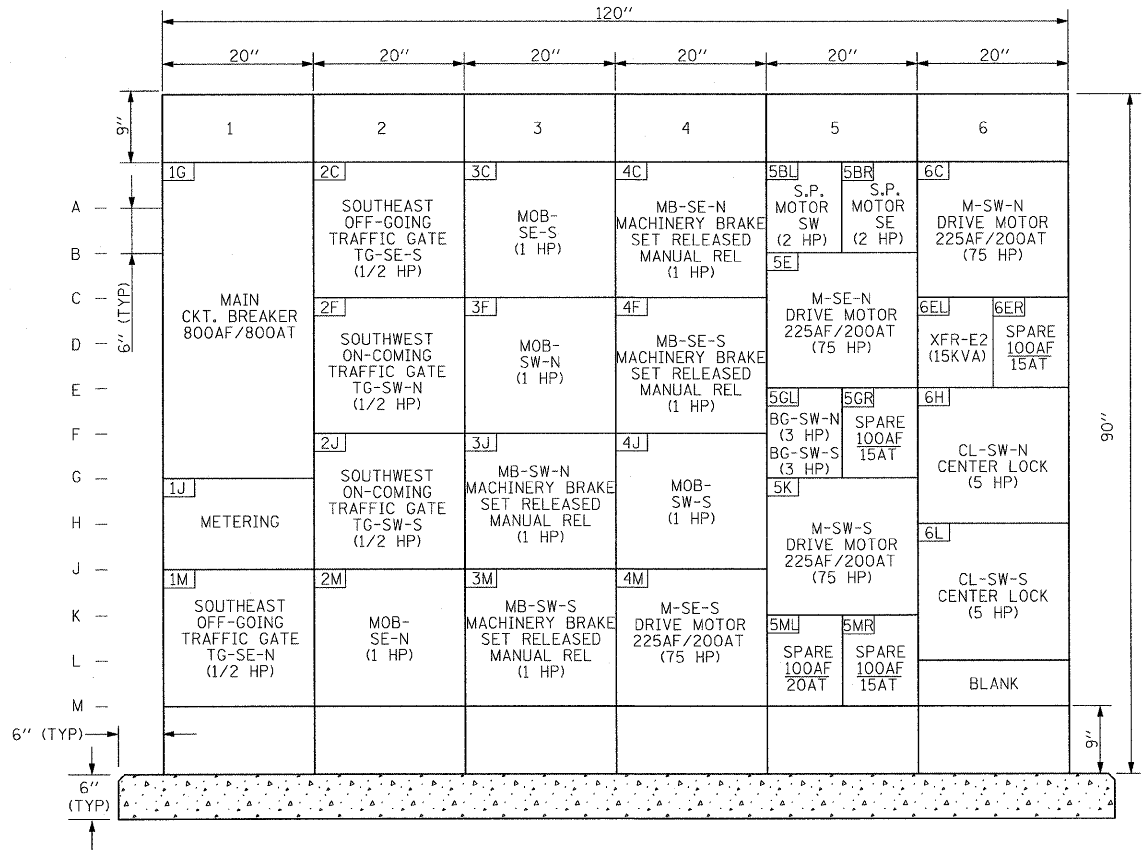
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ELECTRICAL EQUIPMENT ELEVATION
SHEET 1

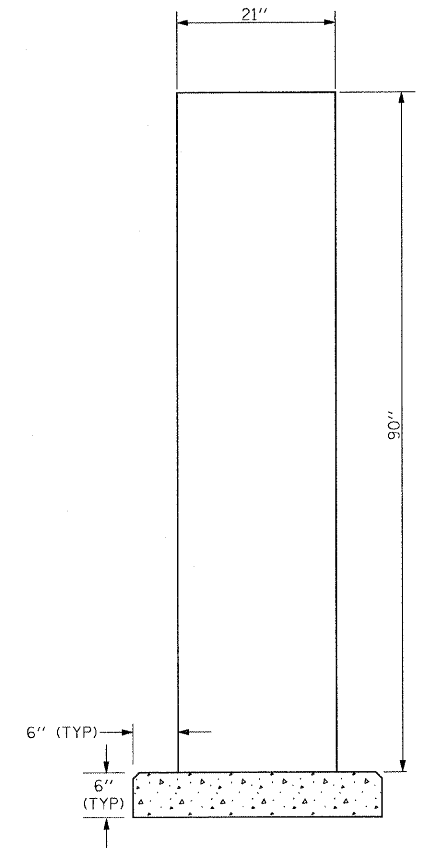
SCALE: AS SHOWN	SHEET NO. E-59 OF E-125 SHEETS	STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	330
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

6-05-09



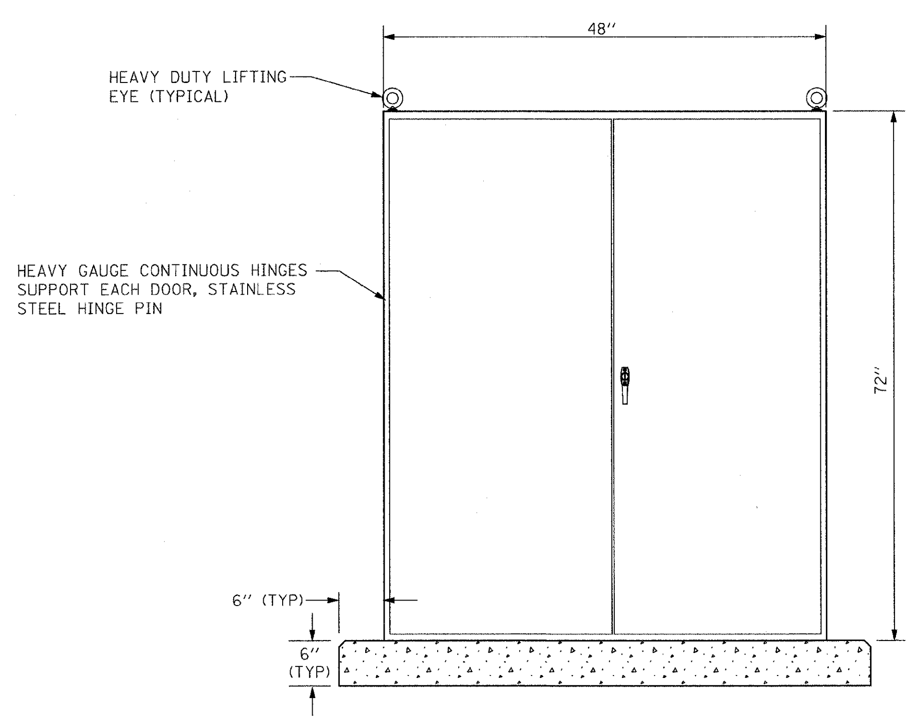
EASTBOUND MCC-EB-1 FRONT ELEVATION



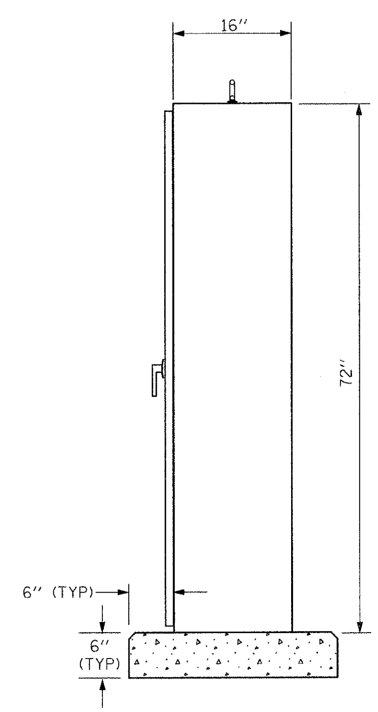
SIDE ELEVATION

NOTES:

1. THE MOTOR CONTROL CENTER (EASTBOUND MCC-EB-1) SHALL BE RATED 800A MAINS, 480V, 3PHASE, 4WIRE, 60 HERTZ WITH AN INTERRUPTING RATING OF 65,000 RMS SYMMETRICAL AMPERES AND SHALL BE MANUFACTURED BY EATON'S CUTLER - HAMMER, FREEDOM 2100 SERIES AND IN NEMA 1 ENCLOSURE OR APPROVED EQUAL. REFER TO DWG. E-13 FOR MCC ONE LINE DIAGRAM.
2. THE FLUX VECTOR DRIVE SHALL BE RATED 100HP, 480V, 3PHASE, OVERLOAD CAPACITY 150% OF RATED LOAD FOR 1 MINUTE AND SHALL BE MANUFACTURED BY MAGNETEK, PART. NO. 506-12-24128-H-SDC AND THE DRIVE ENCLOSURE SHALL BE #12 GAUGE STEEL, RATED NEMA 12 OR APPROVED EQUAL.



FLUX VECTOR DRIVE ENCLOSURE ELEVATION

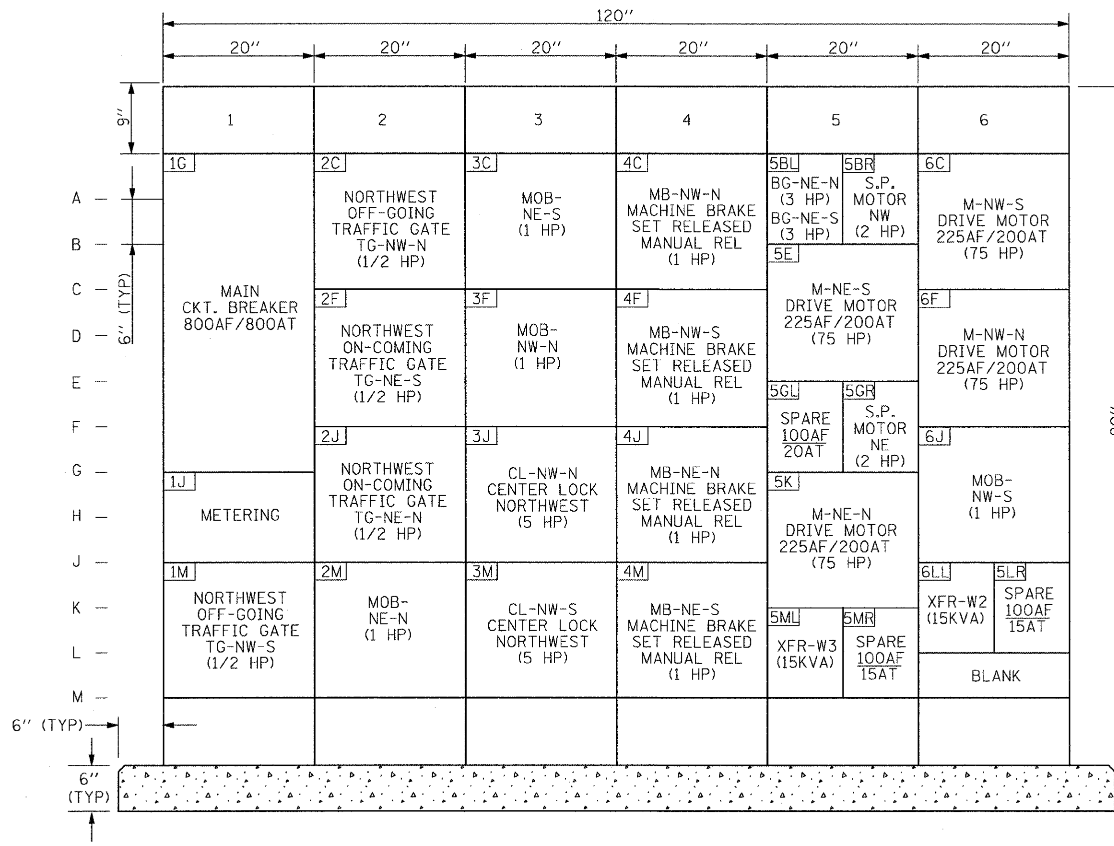


SIDE ELEVATION

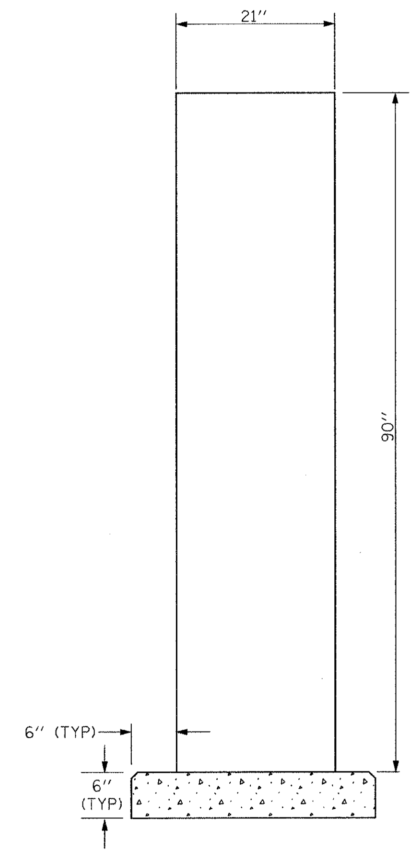
PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - A. CENTENO	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**ELECTRICAL EQUIPMENT ELEVATION SHEET 2**
	FILE NAME = D162d61-sht-elo-60.dgn	DRAWN - S. SHARMA	REVISED -		SCALE: AS SHOWN
	PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -		SHEET NO. E-60 OF E-125 SHEETS
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -		STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	331
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

6-05-09



WESTBOUND MCC-WB-1 FRONT ELEVATION



SIDE ELEVATION

NOTE:

1. THE MOTOR CONTROL CENTER (WESTBOUND MCC-WB-1) SHALL BE RATED 800A MAINS, 480V, 3PHASE, 4WIRE, 60 HERTZ WITH AN INTERRUPTING RATING OF 65,000 RMS SYMMETRICAL AMPERES AND SHALL BE MANUFACTURED BY EATON'S CUTLER - HAMMER, FREEDOM 2100 SERIES AND IN NEMA 1 ENCLOSURE OR APPROVED EQUAL. REFER TO DWG. E-15 FOR MCC ONE LINE DIAGRAM.

PB Americas, Inc.
230 WEST MONROE STREET,
SUITE 900
CHICAGO, IL. 60606

USER NAME = sharma	DESIGNED - A. CENTENO	REVISED -	
FILE NAME = D160d61-sht-elc-61.dgn	DRAWN - S. SHARMA	REVISED -	
PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -	
PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

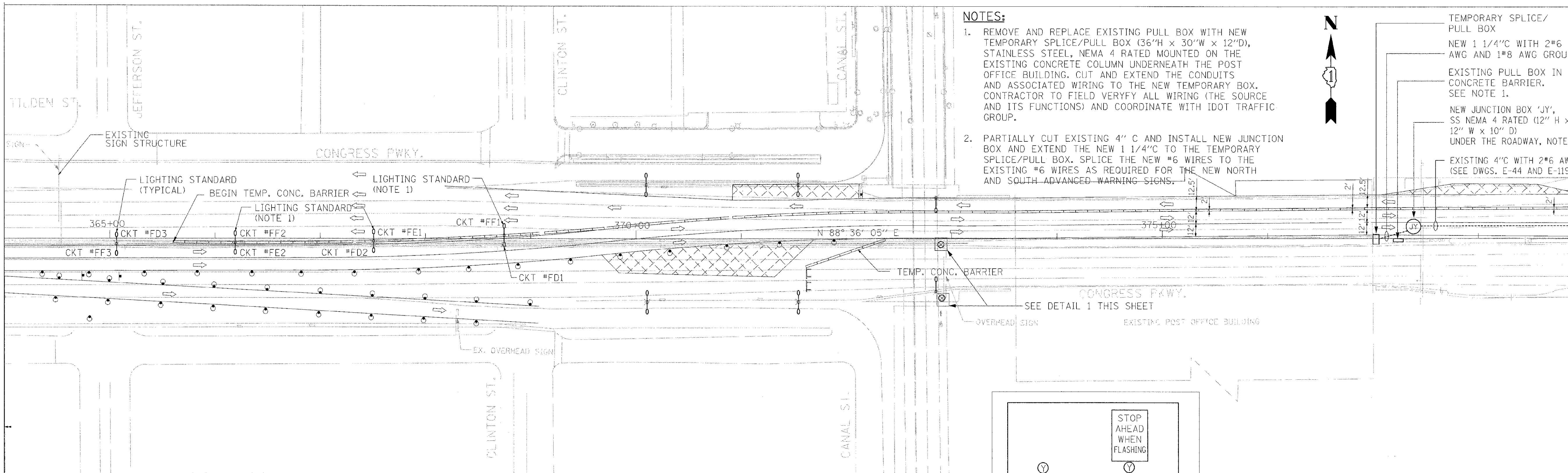
ELECTRICAL EQUIPMENT ELEVATION
SHEET 3

SCALE: AS SHOWN | SHEET NO. E-61 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	332
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

6-05-09

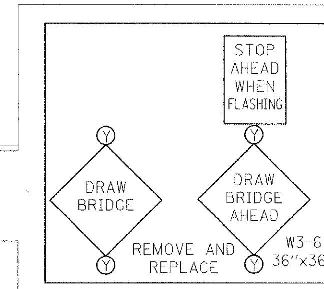


NOTES:

1. REMOVE AND REPLACE EXISTING PULL BOX WITH NEW TEMPORARY SPLICE/PULL BOX (36"H x 30"W x 12"D), STAINLESS STEEL, NEMA 4 RATED MOUNTED ON THE EXISTING CONCRETE COLUMN UNDERNEATH THE POST OFFICE BUILDING. CUT AND EXTEND THE CONDUITS AND ASSOCIATED WIRING TO THE NEW TEMPORARY BOX. CONTRACTOR TO FIELD VERYFY ALL WIRING (THE SOURCE AND ITS FUNCTIONS) AND COORDINATE WITH IDOT TRAFFIC GROUP.
2. PARTIALLY CUT EXISTING 4" C AND INSTALL NEW JUNCTION BOX AND EXTEND THE NEW 1 1/4"C TO THE TEMPORARY SPLICE/PULL BOX. SPLICE THE NEW #6 WIRES TO THE EXISTING #6 WIRES AS REQUIRED FOR THE NEW NORTH AND SOUTH ADVANCED WARNING SIGNS.

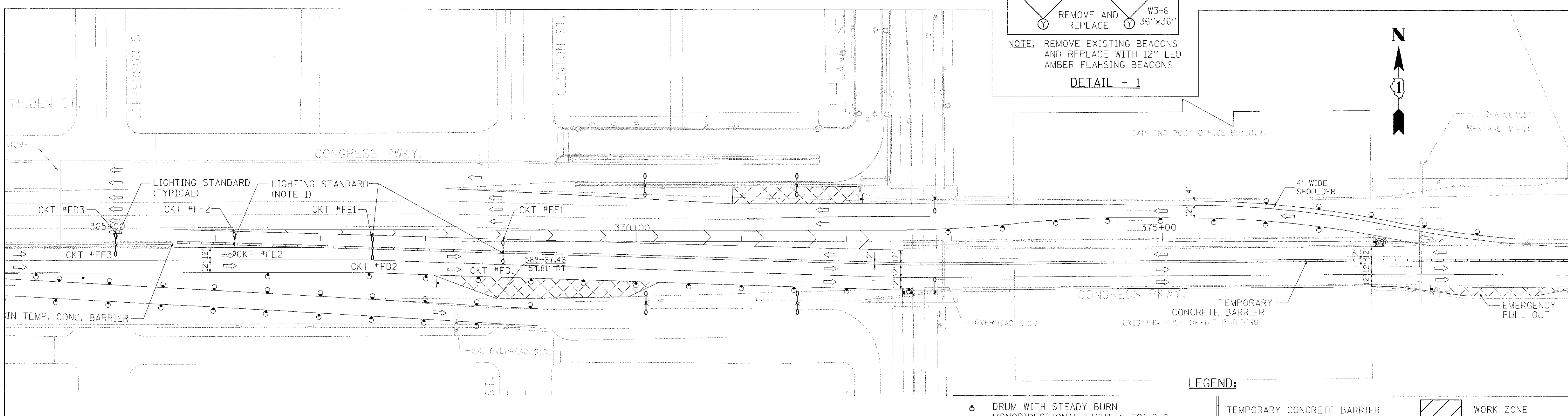
TEMPORARY LIGHTING - STAGE 1

SCALE: 1" = 50'-0"



NOTE: REMOVE EXISTING BEACONS AND REPLACE WITH 12" LED AMBER FLAHSING BEACONS

DETAIL - 1



TEMPORARY LIGHTING - STAGE 2

SCALE: 1" = 50'-0"

LEGEND:

- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT @ 50' C-C ON TAPER AND 100' C-C ON TANGENT OR AS SHOWN ON THE PLAN
- EXISTING TWIN ARM LIGHT POLE
- EXISTING SINGLE ARM LIGHT POLE
- TEMPORARY CONCRETE BARRIER W/ PRISMATIC BARRIER REFLECTOR
- WORK ZONE
- ACCIDENT INVESTIGATION SITE

CIRCUIT DESIGNATION:

CKT #FD1
- 1ST LUMINAIRE
- CIRCUIT "D"
- CABINET "F"

NOTES:

1. EXISTING LIGHTING STANDARD TO BE USED IN TEMPORARY LOCATION. ALL RELOCATED LIGHTING STANDARD SHALL BE POWERED FROM EXISTING CIRCUIT AS SHOWN ON THIS DRAWINGS WITH TEMPORARY WIRING. REFER TO STRUCTURAL DRAWING FOR LIGHTING STANDARD TEMPORARY LOCATION MOUNTING DETAILS.

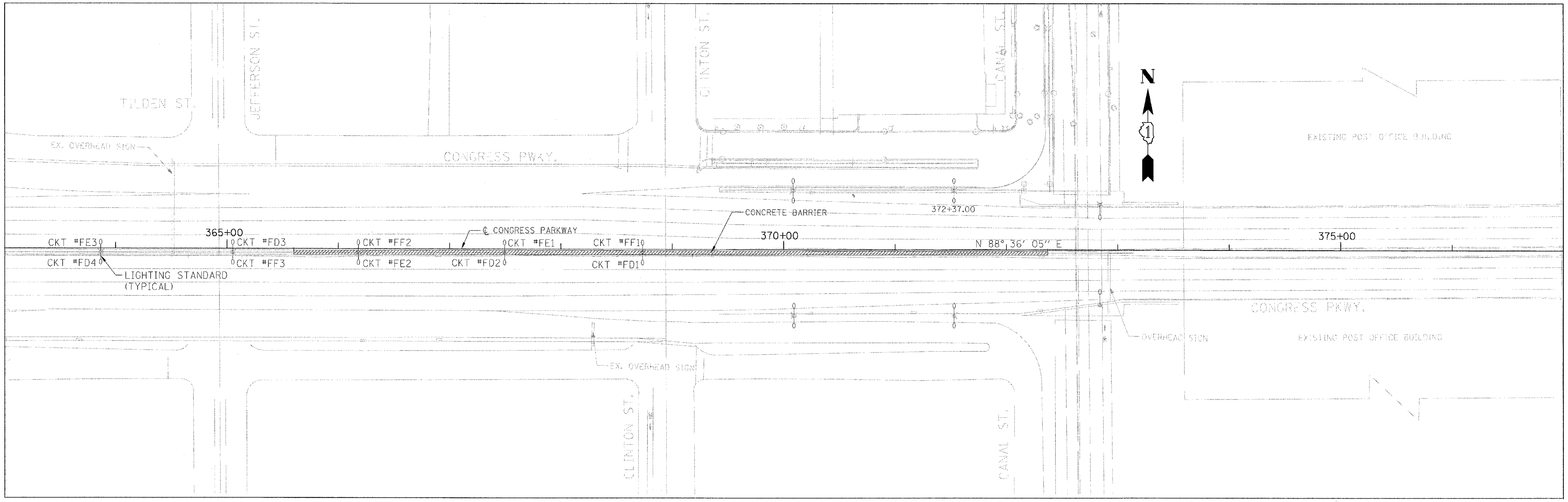
PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - D. RAFFINGTON	REVISED -
	FILE NAME = D160061-sht-elc-62.dgn	DRAWN - S. SHARMA	REVISED -
	PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CONSTRUCTION STAGING TEMPORARY ROADWAY LIGHTING

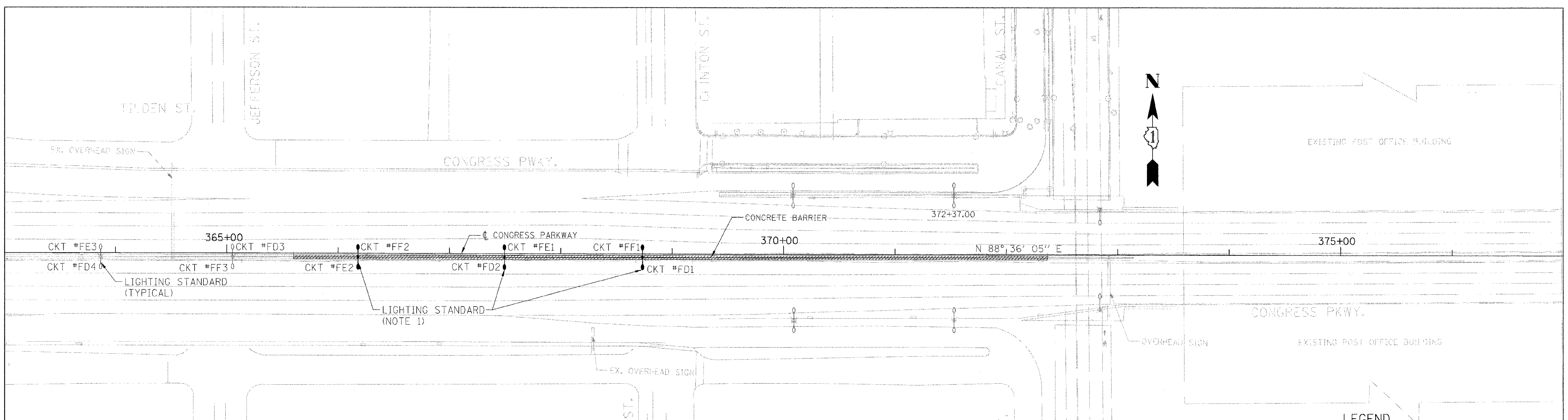
SCALE: AS SHOWN | SHEET NO. E-62 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	333
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



EXISTING LIGHTING

SCALE: 1" = 50'-0"



NEW LIGHTING

SCALE: 1" = 50'-0"

LEGEND

- NEW TWIN ARM LIGHTING STANDARD
- EXISTING TWIN ARM LIGHTING STANDARD
- EXISTING SINGLE ARM LIGHTING STANDARD

CIRCUIT DESIGNATION:

CKT #FD1
- 1ST LUMINAIRE
- CIRCUIT "D"
- CABINET "F"

NOTES:

1. REPLACE EXISTING LIGHTING STANDARD WITH NEW LIGHTING STANDARD FOR PERMANENT INSTALLATION. EXISTING LIGHTING STANDARD SHALL BE TURNED OVER TO IDOT. NEW LIGHTING STANDARD SHALL BE POWERED FROM EXISTING CIRCUIT AS SHOWN ON THIS DRAWING WITH NEW PERMANENT WIRING. REFER TO STRUCTURAL DRAWINGS FOR PERMANENT LIGHTING STANDARD MOUNTING DETAILS.

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma FILE NAME = 0160061-sht-elc-63.dgn PLOT SCALE = NONE PLOT DATE = 5/7/2009	DESIGNED - D. RAFFINGTON DRAWN - S. SHARMA CHECKED - M. INTATANO DATE - MAY 8, 2009	REVISED - REVISED - REVISED - REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**	**CONSTRUCTION STAGING** **EXISTING AND NEW ROADWAY LIGHTING** SCALE: AS SHOWN | SHEET NO. E-63 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	334
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PANEL DESIGNATION: LP-E1
LOCATION: EAST SIDE MEZZANINE
TYPE: ☐ FLUSH ☒ SURFACE

VOLTAGE: 208/120V, 3PH, 4W, 60HZ
MAIN CKT BRK: 225AF, 150AT, 3POLE
MAINS: 225AMP, ☒ TOP, ☐ BOTTOM, ☐ MLO

LOAD DESCRIPTION	BREAKER POLE	BREAKER TRIP	VA A	VA B	VA C	CKT	CKT	VA A	VA B	VA C	BREAKER TRIP	BREAKER POLE	LOAD DESCRIPTION
MEZZ LEVEL LIGHTING	1	20	520			1	2	696			20	1	DOCK LEVEL LIGHTING
MEZZ LEVEL LIGHTING	1	20		520		3	4		696		20	1	DOCK LEVEL LIGHTING
EXIT LIGHT	1	20				5	6			1071	20	1	STAIR LIGHTING
DOCK LEVEL LIGHTING	1	20	924			7	8	1271			20	1	DOCK LEVEL RECEPTACLES
DOCK LEVEL LIGHTING	1	20		924		9	10		1059		20	1	DOCK LEVEL RECEPTACLES
FIRE ALARM CONTROL PANEL	1	20			600	11	12				20	1	SPARE
DOCK LEVEL LIGHTING	1	20	924			13	14	1059			20	1	MEZZ RECEPTACLES
DOCK LEVEL LIGHTING	1	20		693		15	16		847		20	1	MEZZ RECEPTACLES
SPARE	1	20				17	18				20	1	SPARE
EMER BATT UNIT DOCK LEVEL	1	20	276			19	20	924			20	1	DOCK LEVEL LIGHTING
EMER BATT UNIT DOCK LEVEL	1	20		276		21	22		924		20	1	DOCK LEVEL LIGHTING
SPARE	1	20				23	24				20	1	SPARE
CCTV CAMERA POWER SUPPLY	1	20	200			25	26	237			20	1	EMERG BAT UNIT
CCTV CABINET POWER SUPPLY	1	20		1500		27	28		237		20	1	EMERG BAT UNIT
~~RECEPTACLES~~	1	20			720	29	30			609	20	1	LTG VERTICAL CORE
SPACE	1					31	32					1	SPACE
SPACE	1					33	34					1	SPACE
SPACE	1					35	36					1	SPACE
SPACE	1					37	38					1	SPACE
SPACE	1					39	40					1	SPACE
SPACE	1					41	42					1	SPACE

N G

VOLT AMPS: 1 PH A = 7,531 PH B = 7,676 1 PH C = 3,000

TOTAL VOLT AMPS = 18,207 1 AMPS = 65.70 1 AIC-RMS = 22,000 @ 208VAC, 3PHASE

PANEL DESIGNATION: LP-W1
LOCATION: WEST SIDE MEZZANINE
TYPE: ☐ FLUSH ☒ SURFACE

VOLTAGE: 208/120V, 3PH, 4W, 60HZ
MAIN CKT BRK: 225AF, 150AT, 3POLE
MAINS: 225AMP, ☒ TOP, ☐ BOTTOM, ☐ MLO

LOAD DESCRIPTION	BREAKER POLE	BREAKER TRIP	VA A	VA B	VA C	CKT	CKT	VA A	VA B	VA C	BREAKER TRIP	BREAKER POLE	LOAD DESCRIPTION
MEZZ LEVEL LIGHTING	1	20	433			1	2	609			20	1	DOCK LEVEL LIGHTING
MEZZ LEVEL LIGHTING	1	20		520		3	4		522		20	1	DOCK LEVEL LIGHTING
EXIT LIGHT	1	20				5	6			609	20	1	STAIR LIGHTING
DOCK LEVEL LIGHTING	1	20	693			7	8	1059			20	1	DOCK LEVEL RECEPTACLES
DOCK LEVEL LIGHTING	1	20		462		9	10		1270		20	1	DOCK LEVEL RECEPTACLES
FIRE ALARM CONTROL PANEL	1	20			600	11	12				20	1	SPARE
DOCK LEVEL LIGHTING	1	20	693			13	14	847			20	1	MEZZ LEVEL RECEPTACLES
DOCK LEVEL LIGHTING	1	20		693		15	16		1059		20	1	MEZZ LEVEL RECEPTACLES
SPARE	1	20				17	18				20	1	SPARE
EMER BATT UNIT DOCK LEVEL	1	20	276			19	20	693			20	1	DOCK LEVEL LIGHTING
EMER BATT UNIT DOCK LEVEL	1	20		276		21	22		693		20	1	DOCK LEVEL LIGHTING
SPARE	1	20				23	24				20	1	SPARE
CCTV CAMERA POWER SUPPLY	1	20	200			25	26	237			20	1	EMERG BAT UNIT
CCTV CABINET POWER SUPPLY	1	20		1500		27	28		237		20	1	EMERG BAT UNIT
~~RECEPTACLE~~	1	20			720	29	30			609	20	1	LTG VERTICAL CORE
SPACE						31	32					1	SPACE
SPACE						33	34					1	SPACE
SPACE						35	36					1	SPACE
SPACE						37	38					1	SPACE
SPACE						39	40					1	SPACE
SPACE						41	42					1	SPACE

N G

VOLT AMPS: 1 PH A = 5,740 PH B = 7,232 1 PH C = 2,538

TOTAL VOLT AMPS = 15,510 1 AMPS = 55.98 1 AIC-RMS = 22,000 1 @ 208VAC, 3PHASE

PANEL DESIGNATION: DP-E2
LOCATION: EAST SIDE MEZZANINE
TYPE: ☐ FLUSH ☒ SURFACE

VOLTAGE: 208/120V, 3PH, 4W, 60HZ
MAIN CKT BRK: 100AF, 60AT, 3POLE
MAINS: 100AMP, ☒ TOP, ☐ BOTTOM, ☐ MLO

LOAD DESCRIPTION	BREAKER POLE	BREAKER TRIP	VA A	VA B	VA C	CKT	CKT	VA A	VA B	VA C	BREAKER TRIP	BREAKER POLE	LOAD DESCRIPTION
E.B. CONTROL DESK UTIL POWER	1	20	1200			1	2	1200			20	1	BPLCCTV UTIL POWER
E.B. DESK CONTROL POWER	1	20		1200		3	4		1200		20	1	BPLCTTV CONTROL POWER
I/O DROP 5 SE UTIL POWER	1	20			1200	5	6				20	1	
I/O DROP 5 SE IO/PLC POWER	1	30	1800			7	8				20	1	
I/O DROP 5 SE CONTROL POWER	1	30		1000		9	10						
SE-N/SE-S DRIVE MOTOR HEATERS	1	20			1000	11	12						
DROP 5 SE, NAV/PIER LIGHTS	1	20	200			13	14						
DROP 5 SE, SIGNAL/GATE LIGHTS	1	20		500		15	16						
						17	18						
						19	20						
						21	22						
						23	24						
						25	26						
						27	28						
						29	30						

N G

VOLT AMPS: PH A = 4,400 PH B = 3900 PH C = 2200

TOTAL VOLT AMPS = 10,500 AMPS = 37.89 AIC-RMS = 22,000 @ 208VAC, 3PHASE

PANEL DESIGNATION: DP-W2
LOCATION: WEST SIDE MEZZANINE
TYPE: ☐ FLUSH ☒ SURFACE

VOLTAGE: 208/120V, 3PH, 4W, 60HZ
MAIN CKT BRK: 100AF, 60AT, 3POLE
MAINS: 100AMP, ☒ TOP, ☐ BOTTOM, ☐ MLO

LOAD DESCRIPTION	BREAKER POLE	BREAKER TRIP	VA A	VA B	VA C	CKT	CKT	VA A	VA B	VA C	BREAKER TRIP	BREAKER POLE	LOAD DESCRIPTION
I/O DROP 8 SW IO/PLC POWER	1	30	1800			1	2	1800			30	1	DROP 7 NW IO/PLC POWER
I/O DROP 8 SW CONTROL POWER	1	30		1200		3	4		1200		30	1	I/O DROP 7 NW CONTROL POWER
I/O DROP 8 SW UTILITY POWER	1	20			1200	5	6			1200	20	1	I/O DROP 7 NW UTILITY POWER
SW-N/S DRIVE MOTOR HEATERS	1	20	1000			7	8	200			20	1	DROP 7 NW, NAV/PIER LIGHTS
BG-SWSOC GCFI RECEPTACLE	1	20		1200		9	10		1000		20	1	NW-N/S DRIVE MOTOR HEATERS
BG-SWSOC ENCLOSURE HEATER	1	20			400	11	12						
BG-SWSOC MOTOR/BRAKE HEATERS	1	20	60			13	14						
BG-SWNOC MOTOR/BRAKE HEATERS	1	20		60		15	16						
BG-SWNOC GCFI RECEPTACLE	1	20			1200	17	18						
BG-SWNOC ENCLOSURE HEATER	1	20	400			19	20						
						21	22						
						23	24						
						25	26						
						27	28						
						29	30						

N G

VOLT AMPS: PH A = 5260 PH B = 4380 PH C = 4000

TOTAL VOLT AMPS = 13640 AMPS = 49.22 AIC-RMS = 22,000 @ 208VAC, 3PHASE

MAIN SWITCHBOARD				VOLTAGE: 480V, 3PH, 4W, 60HZ	
CIRCUIT NO.	DEVICE	AMPS	POLES	LABEL	NOTES
MAIN	HND	1600	3		
1	HFD	200	3	DB-E1 (EASTBOUND)	
2	HFD	200	3	DB-W1 (WESTBOUND)	
3	LGH	800	3	MCC-EB-1 (EASTBOUND)	
4	LGH	800	3	MCC-WB-1 (WESTBOUND)	
		SPACE			

PANEL DESIGNATION: DP-W3
LOCATION: EAST SIDE MEZZANINE
TYPE: ☐ FLUSH ☒ SURFACE

VOLTAGE: 208/120V, 3PH, 4W, 60HZ
MAIN CKT BRK: 100AF, 60AT, 3POLE
MAINS: 100AMP, ☒ TOP, ☐ BOTTOM, ☐ MLO

LOAD DESCRIPTION	BREAKER POLE	BREAKER TRIP	VA A	VA B	VA C	CKT	CKT	VA A	VA B	VA C	BREAKER TRIP	BREAKER POLE	LOAD DESCRIPTION
I/O DROP 3 SW IO/PLC POWER	1	30	1800			1	2	1200					W.B. CONTROL DESK UTIL POWER
DROP 3 SW SIGNALS/GATE LIGHTS	1	20		1200		3	4		1200				WE.B. DESK CONTROL POWER
I/O DROP 3 SW UTILITY POWER	1	20			1200	5	6						
NE-N/S DRIVE MOTOR HEATERS	1	20	1000			7	8						
BG-NESOC GCFI RECEPTACLE	1	20		1200		9	10						
BG-NESOC ENCLOSURE HEATERS	1	20			400	11	12						
BG-NESOC MOTOR/BRAKE HEATERS	1	20	60			13	14						
BG-NENOC MOTOR/BRAKE HEATERS	1	20		60		15	16						
BG-NENOC GCFI RECEPTACLE	1	20			1200	17	18						
BG-NENOC ENCLOSURE HEATERS	1	20	400			19	20						
						21	22						
						23	24						
						25	26						
						27	28						
						29	30						

N G

VOLT AMPS: PH A = 4,460 PH B = 3,660 PH C = 2,800

TOTAL VOLT AMPS = 10,920 AMPS = 39.41 AIC-RMS = 22,000 @ 208VAC, 3PHASE

1 ADDENDUM - JULY 14, 2009

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - A. CENTENO	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	FILE NAME = D162d61-sht-elc-64.dgn	DRAWN - S. SHARMA	REVISED -	
	PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -	
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

PANEL SCHEDULES

SCALE: AS SHOWN | SHEET NO. E-64 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	335
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

EXISTING CONDUIT AND WIRE

CONDUIT NO.	SIZE	FROM	TO	NO. OF WIRE	SIZE	WIRE MARKS
C1	3/4	FC SW. SE	GATE PAN. SE	2	#10	308, 309
C2E	1 1/4	SUB. CAB. POW.	J- BOX	5	#10	788, 178, 179, 313A, 316A
C3E	1 1/4	SUB. CAB. POW.	CONT. BRD. NE	11	#10	DE, DW, EE, EW, FE, FW, GE, GW, 308A, 311A, 70
C5	1 1/4	GATE PAN. NE	WALK GATE NE	2 4	#10 #14	311A, 315A Y,F3A,F7A,F8A,121A,122A
C6	3/4	FLASHER PAN.	FTTG. Q	4	#14	229X2, 3002, 299X1, 3001
C6A	3/4	FTTG. Q	PB "R-1"	4	#14	229X2, 3002, 299X1, 3001
C6B	3/4	FTTG. Q	PB "S-1"	4	#14	229X2, 3002, 299X1, 3001
C7	1 1/4	GATE PAN. SE	SE RDWAY. GATE NORTH	2 8	#10 #14	309, 310 299X3,3003,119,120,E3,E7,E8,Y
C8	1 1/4	GATE PAN. SE	SE RDWAY. GATE SOUTH	2 8	#10 #14	310, 311 299X4,3004,117,128,D3,D7,D8,Y
C9	1 1/4	PB "R-1"	DOCK PULL BOX	9	#14	281,117A,118A,D3A,D7A,D8A, Y, 280, 99A
C9A	1 1/4	GATE PAN. NE	DOCK PULL BOX	8	#14	281,117A,118A,D3A,D7A,D8A, Y, 280
C10	1 1/4	GATE PAN. NE	PB "S-1"	10	#14	279,280,119A,120A,E3A,E7A E8A, Y, 99A, Y
C15	2	PB "S-1"	PB "S-2"	4 10	#14 #14	SAME AS C6B SAME AS C10
C16	1 1/4	PB "S-2"	NE RDWAY GATE NORTH	10	#14	279,280,119A,120A,E3A,E7A E8A, 99A, Y, 299X2, 3002
C17	3/4	PB "S-2"	STOP SIGN AND BELL NORTH	4	#14	299X1, 3001, 99A, Y
C18	2	PB "R-1"	PB "R-2"	13	#14	299X2,3002,99A,299X1,3001,Y, 281,280,117A,118A,D3A,D7A,D8A
C19	3/4	PB "R-2"	STOP SIGN SOUTH	4	#14	299X2, 3002, 99A, Y
C20	1 1/4	PB "R-2"	NE GATE SOUTH	11	#14	281,117A,118A,D3A,D7A,D8A, Y, 280, 299X1, 3001, Y
C29	2	DC SVC. SW.	FDR. PAN. NE	1	500 MCM	L2
C30	2	DC SVC. SW.	FDR PAN. NE	1	500 MCM	L1
C31	2	DC SVC. PULL BOX	NE CONT. BRD.	1	#500 MCM	N
C32	2	AC SVC.	NE CONT. BRD.	4	#1/0	D, E, F, NA
C33	1	FDR. PAN. NE	FDR. PAN. SE	1	#3/0	AISE
C34	1	FDR. PAN. NE	FDR. PAN. SE	1	#2/0	5SAE
C35	1	NE CONT. BRD.	SE CONT. BRD.	1	#3/0	A8
C36	1	NE CONT. BRD.	SE CONT. BRD.	1	#1	Y
C37	1 1/4	NE CONT. BRD.	SE CONT. BRD.	11	#14	320,135,148,153,155,157,158, 159, 161, 162, 171
C38	1 1/4	NE CONT. BRD.	SE CONT. BRD.	12	#14	123,163,164,165,166,167,168, 169, 175, 176, 177, 180
C39	1 1/4	NE CONT. BRD.	SE FDR. PNL.	1 1	#10 #12	XSE2 XSE
				10	#14	136,137,138,5SE,139,145,147, 152,154, 174
C40	1	AUX. GRID NE	C.O. SW. NE	1	#2/0	AR6
C41	1	AUX. GRID SE	C.O. SW. SE	1	#2/0	AR6
C42	2	AUX. GRID NE	J-BOX	3	#1	AR1, AR2, AR3
C43	2	AUX. GRID SE	J-BOX	3	#1	AR1, AR2, AR3
C44	2	AUX. GRID NE	J-BOX	1 2	#2/0 #1	AR6 AR4, AR5
C45	2	AUX. GRID SE	J-BOX	1 2	#2/0 #1	AR6 AR4, AR5
C46	1 1/2	SE CONT. BRD.	M MOT. RES. SE	3	#1	B1, R6, R7
C47	1 1/2	NE CONT. BRD.	M MOT. RES. NE	3	#1	B1, R6, R7
C48	1 1/2	SE CONT. BRD.	M MOT. RES. SE	1 1	#1/0 #1	R4 R5
C49	1 1/2	NE CONT. BRD.	M MOT. RES. NE	1 1	#1/0 #1	R4 R5
C50	1 1/2	SE CONT. BRD.	M MOT. RES. SE	3	#1	B4, R8, B10
C51	1 1/2	NE CONT. BRD.	M MOT. RES. NE	3	#1	B4, R8, B10
C52	1 1/2	SE CONT. BRD.	M MOT. RES. SE	3	#1	B2, B3, R7
C53	1 1/2	NE CONT. BRD.	M MOT. RES. NE	3	#1	B2, B3, R7
C54	2	SE CONT. BRD.	M MOT. RES. SE	1 2	#3/0 #1/0	R1 R2, R3
C55	2	NE CONT. BRD.	M MOT. RES. NE	1 2	#3/0 #1/0	R1 R2, R3
C56	1 1/2	SE CONT. BRD.	M MOT. RES. SE	3	#1	B20, B30,B40
C57	1 1/2	NE CONT. BRD.	M MOT. RES. NE	3	#1	B20, B30, B40
C58	2	SE CONT. BRD.	C.O. SW. SE	4	#1	N20, N21, R5, R7
C59	2	NE CONT. BRD.	C.O. SW. NE	4	#1	N20, N21, R5, R7
C60	2	SE CONT. BRD.	C.O. SW. SE	4	#1	F20, F21, R6, R8
C61	2	NE CONT. BRD.	C.O. SW. NE	4	#1	F20, F21, R6, R8
C64	2	SE C.O. SW.	J-BOX	3	#1/0	A5, A6, A7
C65	2	NE C.O. SW.	J-BOX	3	#1/0	A5, A6, A7
C66	2 1/2	SE C.O. SW.	M MOT. #1 SE	4	#1/0	AA5, AA6, AA7, AA8
C67	2 1/2	NE C.O. SW.	M MOT. #1 NE	4	#1/0	AA5, AA6, AA7, AA8
C68	2 1/2	SE C.O. SW.	M MOT. #2 SE	4	#1/0	AA1, AA2, AA3, AA4
C69	2 1/2	NE C.O. SW.	M MOT. #2 NE	4	#1/0	AA1, AA2, AA3, AA4
C70	3/4	SE CONT. BRD.	BRAKE #1 SE	4	#14	BR1, 1SBR, 1BR2, SPARE
C71	3/4	NE CONT. BRD.	BRAKE #1 NE	4	#14	BR1, 1NBR, 1BR2, SPARE

EXISTING CONDUIT AND WIRE

CONDUIT NO.	SIZE	FROM	TO	NO. OF WIRE	SIZE	WIRE MARKS
C72	3/4	SE CONT. BRD.	BRAKE #2 SE	4	#14	BR1, 2SBR, 2BR2, SPARE
C73	3/4	NE CONT. BRD.	BRAKE #2 NE	4	#14	BR1, 2NBR, 2BR2, SPARE
C74	1 1/4	NE C.O. SW.	SE C.O. SW.	11	#14	48N,65,66,67,87A,88A,312, 349, 470N, 470S, 210
C75	1	NE C.O. SW.	NE FDR. PAN.	4	#14	89AN, 115N, Y, 480N
C76	1	SE C.O. SW.	SE FDR. PAN.	6	#14	89AS, 115S, 170, 312, Y, 349
C77	1	NE CONT. BRD.	J-BOX	1	#2/0	A8
C78	1	SE CONT. BRD.	J-BOX	1	#2/0	A8
C79	3/4	NE C.O. SW.	J-BOX	5	#14	65, 66, 67, 87N, 88N
C80	3/4	SE C.O. SW.	J-BOX	5	#14	48N, 48S, 210, 470S, 470N
C83	1	NE FDR. PAN.	J-BOX	1	#2/0	A4
C84	1	SE FDR. PAN.	J-BOX	1	#2/0	A4
C85	3/4	NE CONT. BRD.	PIT P CONT. NORTH	3	#14	287, 288, 289
C86	3/4	NE CONT. BRD.	PIT P CONT. SOUTH	3	#14	290, 291, 292
C90	3/4	FLASHER PAN.	NE CONT. BRD.	2	#14	298, K
C91	3/4	FLASHER PAN.	FLASHER	6	#14	299, 300, 299X1, 299X2, 299X3, 299X4
C93	3/4	GATE PAN. NE	FL. CL. SW. NE	2	#10	308A, 314A
C97	1 1/2	NE CONT. BRD.	LTG. CAB.	4	#4	295, 296, 297, K
C98	3/4	NE CONT. BRD.	OIL BURNER	2	#14	K, 302
C99	1	MAIN LIM. SW. SE	GOV. J-BOX	7	#14	140,141,143,144,145,146,220
C100	1 1/4	NE CONT. BRD.	GOV. J-BOX	10	#14	220,141,144,145,157,136,137, 138, 139, 152
C100A	1 1/4	GOV. J-BOX	SPEED GOV.	12	#14	131,132,133,134,136,137,138, 139, 144, 145, 152, 157
C101	1 1/4	GOV. J-BOX	NE CONT. BRD.	7	#14	143,146,131,132,133,134,140
C102	1 1/4	NE CONT. BRD.	J-BOX	8	#14	INBR,2NBR,162,163,164,165, 166, 174
C103	1	SE CONT. BRD.	J-BOX	6	#14	110, 111, 112, 113, 156, 160
C104	1 1/4	SE CONT. BRD.	J-BOX	6	#14	201S,201AS,94,93,64S,480S
C105	1	FTTG. "K"	J-BOX	6	#14	78, 260, 261, 262, 263, 264
C106A	3/4	NE PIER LIGHTS	FTTG. "L"	2	#14	242, 311
C106B	3/4	MD. PIER LIGHTS	FTTG. "L"	2	#14	242, 311
C106C	3/4	FTTG. "L"	DOCK PULL BOX	2	#14	242, 311
C106D	1	FTTG. "K"	FTTG. "G"	7	#14	311, 264, 242, 265, 3 LTG. WIRES
C106E	3/4	FTTG. "G"	SE PIER LIGHTS	2	#14	242, 311
C106X	1	FTTG. "K"	DOCK PULL BOX	6	#14	78, 260, 261, 262, 263, 265
C107	1 1/4	NE CONT. BRD.	J-BOX	15	#14	FA1,FA2,FA3,FA4,L11,L12,FA5, FA6,FS1,FS2,FS3,FS4,FS5,FS6,P
C108	1 1/2	J-BOX	GATE BOX NE	20	#14	93 THRU 96, 93A THRU 96A, 109THRU113,109ATHRU114A,116A
C109	1	SE CONT. BRD.	J-BOX	3	#14	100, 1SBR, 2SBR
C110	1 1/4	NE CONT. BRD.	J-BOX	2 10	#12 #14	XSE, XNE 480N, 5SE, 5NE, 64N, 201AN,
						20IN, 94A, 93A, 143, 146
C111	1 1/2	J-BOX	INST. PANEL	6 14	#10 #14	318, 319, 320, 321, 322, 323 R1,R2,R3,S1,S2,R11,R12,R13,
						S1, S2, S1, S2, Y, VS
C112	1 1/2	NE CONT. BRD.	J-BOX	13	#14	100A, 220, 11A TO 114A, 116A, 220, 123, 147, 152, 154
C116	1	NE CONT. BRD.	J-BOX	6	#14	95A, Y, 220, 130, 140, 144
C117	1	NE CONT. BRD.	J-BOX	8	#14	279,282,316A,235,311,S1,S2,281
C118	1 1/4	MASTER CONT.	J-BOX	15	#14	123,147,152,154,220,143,146,156, 160,174, 162 THRU 166
C118A	1/2	MASTER CONT.	MASTER FOOT SW.	2	#14	142, 220
C119	1 1/4	J-BOX	SEAT SW. BOX	11	#14	130,140,144,220,269A,266, 267, 268, 269, 266, 269
C119A	1/2	AUX. CONT. NE	NE FOOT SW.	2	#14	64N, 65
C119B	1/2	AUX. CONT. SE	SE FOOT SW.	2	#14	64S, 65
C120	1	J-BOX	FTTG. "K"	8	#14	236, 239, 242, 311, 311, 3 LTG. WIRES
C121	3/4	FTTG. "K"	FTTG. "I"	2	#14	236, 311
C122E	3/4	FTTG. "I"	MAIN LEAF LIM. SW.	3	#14	236, 237, 238
C123	3/4	FTTG. "I"	JB "A-1"	3	#14	237, 238, 311
C123A	3/4	JB "A-1"	JB "A-2"	3	#14	237, 238, 311
C125	3/4	FTTG. "G"	LTG. CAB.	5	#14	264, 265, 3 LTG. WIRES
C126	3/4	FTTG. "P"	DOCK PULL BOX	2	#14	239, 311
C126A	3/4	DOCK PBOX	FTTG. "K"	4	#14	242, 311, 239, 311
C130A	3/4	JB "P"	JB "B-1"	3	#14	240, 241, 311
C130B	3/4	JB "P"	AUX. SPAN LIM. SW.	3	#14	239, 240, 241
C130C	3/4	JB "B-1"	JB "B-2"	3	#14	240, 241, 311
C131	3/4	JB "B-2"	SE CHNL. LIGHTS	3	#14	240, 241, 311
C132	3/4	JB "A-2"	NE CHNL. LIGHTS	3	#14	237, 238, 311

EXISTING CONDUIT AND WIRE

CONDUIT NO.	SIZE	FROM	TO	NO. OF WIRE	SIZE	WIRE MARKS
C133	3/4	HENS. TRANSM. NE	J-BOX	5	#14	R1, R2, R3, S1, S2
C134	3/4	HENS. TRANSM. SE	J-BOX	5	#14	R11, R12, R13, S1, S2
C135	1	CLUTCH PULL BOX	J-BOX	4	#14	220, 346, 347, Y
C135A	1 1/4	CLUTCH PULL BOX	CL. LIM. SW.	13	#14	220,346,347,210,350,250,251,Y, 351,470N,470S,480N,480S
C136	1	CLUTCH PULL BOX	CL. & FL PAN.	8	#14	256,255,254,251,250,Y,SF,480S
C136A	1	CLUTCH PULL BOX	CL. MOTOR	5	#14	256, 255, 254, Y, SF,
C137	1	CLUTCH PULL BOX	NE C.O. SW.	6	#14	210, 350, 351, 470N, 470S, 480N
C139	3/4	J-BOX	CL. & FL PAN.	3	#14	98, 252, 348
C140	3/4	CLUTCH PULL BOX	CL. MOTOR BRAKE	2	#14	SF, 254
C141	1 1/4	NE CONT. BRD.	NEAR BARRIER	8	#10	T11, T12, T13, T21, T22, T23, 314A, 315A
C142	1	NEAR BARRIER	PB "T-1"	5	#10	T11, T12, T13, 312A, 315A
C142A	3	PB "T-1"	PB "T-2"	5	#10	T11, T12, T13, 312A, 315A
C143	1 1/4	DOCK PULL BOX	NEAR BARRIER	12	#14	270, 271, 272, 273, 274, 70, 78, 260, 261, 262, 263, 265
C143A	1	DOCK PULL BOX	NE CONT. BRD.	6	#14	270, 271, 272, 273, 274, 70,
C144	1 1/4	NEAR BARRIER	PB "T-1"	8	#14	260, 273, 262, 274, 265, 78, 78A, 270
C144A	1	PB "T-2"	FAR BARRIER	5	#10	T11, T12, T13, 312A, 315A
C144B	1	PB "T-2"	FAR BARRIER	4	#4	260, 273, 262, 274, 265, 78, 78A, 270
C145	1	NE CONT. BRD.	J-BOX	6	#10	318, 319, 320, 321, 322, 323
C146	1 1/4	J-BOX	BARRIER CONT. BOX	11	#14	279,281,282,316A,313A,316A 260, 261, 262, 263, 264
C151	3/4	SE CONT. BRD.	SUB. CAB. BOX POWER	4	#10	170, 308, 311, 312
C153	1	SE GATE BOX	NE GATE BOX	9	#14	93,94,95,96,109,110,111,112, 113
C154	2	J-BOX	AUX. CONT. NE	4 5	#1 #14	AR1, AR2, AR3, AR4 480N, 201N, 64N, 201AN, 65
C155	2	J-BOX	AUX. CONT. NE	1 3	#1 #10	AR5 A5, A6, A7
C156	2	J-BOX	AUX. CONT. NE	1 2	#2/0 #2/0	AR6 A4, A8
C157	2	J-BOX	AUX. CONT. SE	4 5	#1 #14	AR1, AR2, AR3, AR4 480S, 201S, 201AS, 64S, 65
C158	2	J-BOX	AUX. CONT. SE	1 3	#1 #1/0	AR5 A5, A6, A7
C159	2	J-BOX	AUX. CONT. SE	1 2	#2/0 #2/0	AR6 A4, A8
C161	2	J-BOX	BENCHBOARD	2	#14	242, 311
C162	2	J-BOX	BENCHBOARD	2	#14	242, 311
C163	2	J-BOX	BENCHBOARD	7	#14	311, 264, 242, 265, 3 LGT. WIRES
C164	2	J-BOX	BENCHBOARD	2	#14	242, 311
C165	1/2	NE CONT. BRD.	TRIP ALARM	2	#14	149, Y
B	3/4	J-BOX	OPER. HOUSE BUZZER	2	#14	266, 269
B1	3/4	J-BOX	C-BOX	5	#14	266, 267, 268, 269, 269A
B2	3/4	C-BOX	CONT. RM. BUZZ. LTG. CAB.	3	#14	266, 267, 269A
B3	3/4	LTG. CAB.	NE MACH. RM. BUZZ.	2	#14	266, 269A
B4	3/4	C-BOX	B-BOX	5	#14	266, 267, 268, 269, 269A
B5	3/4	B-BOX	SE MACH. RM. BUZZ.	2	#14	266, 269A
B6	3/4	B-BOX	LTG. SUB. CAB. BOX	4	#14	266, 267, 268, 269
S1	3/4	LTG. SUB. CAB. BOX	FTTG. "S"	2	#14	405, 406
S2	3/4	FTTG. "S"	NE INT. MACH. RM. SPKR.	5	#14	
S3	3/4	FTTG. "S"	NE AMPL.	7	#14	405, 406 AND 5 WIRES
S4	1/2	NE AMPL.	SPKR. JB OPER. HSE.	1-2/C	CAB.	MICR.
S5	3/4	NE AMPL.	SPKR. JB OPER. HSE.			8 WIRES
T1	3/4	BATTERY	FTTG. "T"	3	#14	404, 402, 401
T2	3/4	LTG. SUB. CAB. BOX	FTTG. "T"	4	#14	404, 403, 402, 401
T3	3/4	FTTG. "T"	EAST SIDE INT. TEL.	4	#14	404, 403, 402, 401
M	1	SE MACH. RM.	J-BOX			EMPTY (SPARE)

NOTE:

1. CONTRACTOR SHALL VERIFY THE ACCURACY OF THE EXISTING CONDUITS AND CABLES.

PB Americas, Inc.
230 WEST MONROE STREET,
SUITE 900
CHICAGO, IL. 60606

USER NAME = sharma	DESIGNED - A. CENTENO	REVISED -	
FILE NAME = D160d61-sht-elc-65.dgn	DRAWN - S. SHARMA	REVISED -	
PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -	
PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING CONDUIT AND WIRE SCHEDULE – EAST SIDE

SCALE: AS SHOWN | SHEET NO. E-65 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	336
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

EXISTING CONDUIT AND WIRE

CONDUIT NO.	SIZE	FROM	TO	NO. OF WIRE	SIZE	WIRE MARKS
C1A	1 1/4	BOX "D"	CONT. BRD. SW	8	#10	DE, DW, EE, EW, FE, FW, GE, GW
C1	1 1/4	BOX "F"	POWER SUB. CAB. BOX	8	#10	DE, DW, EE, EW, FE, FW, GE, GW
C1B	1 1/4	BOX "F"	BOX "G"	4	#12	266, 267, 268, 269
C2	1 1/4	BOX "F"	POWER SUB. CAB. BOX	8	#10	70,78B,313A,316A,308,311, 308A, 311A
C3	1	BOX "H"	POWER SUB. CAB. BOX	4	#10	170, 178, 179, 312
C4A	1	IBT SVC. BOX	BRIDGE TEL. WEST			BY IBT CO.
C4B	1	SW CONT. BRD.	BOX "Z"	2	#6	K, 2020
C5	1 1/4	BOX "F"	SW WALK GATE	2 6	#10 #14	311, 315 F3, F7, F8, YS, 121, 122
C5A	1 1/4	BOX "D"	SW GATE PAN.	8	#14	F3, F7, F8, YS, 121, 122, 190,480S
C6	1	BOX "D"	CL. & FL PAN.	6	#14	299XA, 299XB, 299XC, 300A, 300B, 300C
C7	1 1/4	BOX "E"	SW GATE NORTH NW STOP SIGN	13	#14	E3,E7,E8,YS,119,120,279,99, 299XA,299XB,300A,300B
C7A	1 1/4	BOX "D"	SW GATE PAN.	8	#14	E3, E7, E8, YS, 119, 120,279,281
C8	1 1/4	BOX "F"	SW GATE SOUTH	10	#14	D3, D7, D8, YS, 117,118,280, 281, 299XA, 300A
C8A	1 1/4	BOX "D"	SW GATE PAN.	8	#14	D3, D7, D8, YS,117,118,YS,99
C9	1 1/4	NW GATE PAN.	NW GATE NORTH	2 8	#10 #14	309A, 310A E3A, E7A, E8A,YN,119A,120A, 299XD, 300D
C10	1 1/4	BOX "A-1"	NW CONT. BRD	4 4	#8 #14	C6A, C7A, C8N, YN C9A, L3A, L4A, L5A
C10A	1 1/2	BOX "A-1"	BOX "A-2"	4 4	#8 #10	C6A, C7A, C8N, YN 78B, 70, 313A, 316A
				1	#14	C9A
C11	1 1/4	BOX "A-1"	NW CONT. BRD	3 4	#14 #10	90, 91, 92 78B, 70, 313A, 316A
C11A	1 1/2	BOX "A-1"	BOX "A-2"	13	#14	90, 91, 92, L3A, L4A, L5A 400,237,238,231,225,226,227
C12	1	BOX "D"	NW CONT. BRD	4	#10	78B, 70, 313A, 316A
C13	1 1/2	BOX "H"	BOX "F"	13	#14	229,230,231,400,192,313,L5,L4, L3,316,212,228,239
C13A	1 1/2	BOX "H"	BOX "B-1"	14	#14	229,230,231,400,192,313,L5,L4, L3,316,212,228,240,241
C13B	1 1/2	BOX "B-1"	BOX "B3"	14	#14	SAME AS CONDUIT C13A
C14	1	BOX "H"	BOX "F"	4 1	#8 #14	C6, C7, C8, YS C9
C14A	1 1/2	BOX "H"	BOX "B-1"	4 4	#8 #10	C6, C7, C8, YS 170, 178, 179, 312
				1	#14	C9
C14B	1 1/2	BOX "B-1"	BOX "B-2"	SAME	AS CONDUIT C14A	
C15	3/4	SW GATE NORTH	NW STOP SIGN AND BELL	4	#14	299XA, 300A, 99, Y
C18	3/4	BOX "F"	SW STOP SIGN AND BELL	4	#14	299XB, 300B, 99, YS
C21	1 1/4	BOX "A-2"	BOX "A-4"	SAME	AS CONDUIT C10A	
C21A	1	BOX "A-4"	BOX "A-3"	4	#10	78B, 70, 313A, 316A
C21B	1 1/4	BOX "A-4"	CTLK MOTOR AND BRAKE	4 1	#8 #14	C6A, C7A, C8A, YN C9A
C22	1 1/4	BOX "B-2"	BOX "B-3"	11	#14	229, 230, 231,192,313,L5,L4, L3, 316, 212, 228
C22A	1 1/2	BOX "B-3"	SW CTLK LIM. SW.	SAME	AS CONDUIT C22	
C22B	1/2	SW CTLK LIM. SW.	SW TARGET LGT.	2	#14	229, 231
C23	1 1/4	BOX "A-2"	BOX "A-3"	10	#14	90, 91, 92,L5A,L4A,L3A,231, 225, 226, 227
C23A	1 1/2	BOX "A-3"	NW CTLK LIM. SW.	10 4	#14 #10	SAME AS CONDUIT C23 78B, 70, 313A, 316A
C23B	1/2	NW CTLK LIM. SW.	NW TARGET LGT.	2	#14	226, 231
C24	1 1/4	BOX "B-2"	BOX "B-4"	4 4	#8 #10	C6, C7, C8, YS 170, 178, 179, 312
				1	#14	C9
C24A	1	BOX "B-4"	BOX "B-3"	4	#10	170, 178, 179, 312
C24B	1 1/4	BOX "B-4"	SW CTLK MOTOR AND BRAKE	4 1	#8 #14	C6, C7, C8, YS C9
C26	1 1/4	BOX "E"	NW GATE SOUTH	8	#14	D3A ,D7A, D8A, YN, 117A, 118A, 299XC, 300C
				2	#10	310A, 311A
C26A	1 1/4	BOX "D"	NW GATE PAN.	7 1	#14 #10	D3A,D7A,D8A,YN,117A,118A,480N 310A
C27	3/4	BOX "A-2"	NW CHNL. LTS. SOUTH	3	#14	400, 237, 238
C27A	3/4	NW CHNL. LTS. SOUTH	NW CHNL. LTS. NORTH	3	#14	400, 237, 238
C28	3/4	BOX "B-2"	SW CHNL. LTS. NORTH	3	#14	400, 240, 241
C28A	3/4	SW CHNL. LTS. NORTH	SW CHNL. LTS. SOUTH	3	#14	400, 240, 241
C29	2	DC SVC. CAB.	FDR. PAN. SW	1	500 MCM	L2
C29A	2	DC SVC. CAB.	DC BOX #1	1	500 MCM	L2
C30	2	DC SVC. CAB.	FDR. PAN. SW	1	500 MCM	L1
C30A	2	DC SVC. CAB.	DC BOX #1	1	500 MCM	L1
C31	2	DC BOX #1	SW CONT. BRD.	1	500 MCM	N
C32	2	AC SVC. BOX	SW CONT. BRD.	4	#1/0	D, E, F, K
C32A	2	AC PULL BOX	AC SVC. CAB	4	#1/0	Ø1,/02,/03, K
C33	1	FDR. PAN. NW	FDR. PAN. SW	1	#3/0	A1NW
C34	1	FDR. PAN. NW	FDR. PAN. SW	1	#2/0	5NAW

EXISTING CONDUIT AND WIRE

CONDUIT NO.	SIZE	FROM	TO	NO. OF WIRE	SIZE	WIRE MARKS
C35	1	SW CONT. BRD.	NW CONT. BRD.	1	#3/0	A8
C36	1	SW CONT. BRD.	NW CONT. BRD.	1	#1	Y
C37	1 1/4	SW CONT. BRD.	NW CONT. BRD.	9	#14	157, 158, 159,161,172,162,220, 135, 148
C38	1 1/4	SW CONT. BRD.	NW CONT. BRD.	12	#14	123, 163, 164,166,165,167,168, 169, 175, 176, 177, 180
C39	1 1/4	SW CONT. BRD.	NW FDR. PAN.	1 1	#10 #12	XNW2 XNW
				12	#14	136, 137, 138,139,145,147,152, 153, 154, 174, 5NW, 155
C40	1	NW AUX. RES.	NW GOV. SW.	1	#2/0 ASB	AR6
C41	1	SW AUX. RES.	SW GOV. SW.	1	#2/0 ASB	AR6
C42	2	NW AUX. RES.	J-BOX	1	#2/0 ASB	AR6
				2	#1 ASB	AR4, AR5
C43	2	SW AUX. RES.	J-BOX	3	#1 ASB	AR1, AR2, AR3
C44	2	NW AUX. RES.	J-BOX	3	#1 ASB	AR1, AR2, AR3
C45	2	SW AUX. RES.	J-BOX	SAME	AS CONDUIT C42	
C46	1 1/2	SW CONT. BRD.	SW M MOT. RES.	3	#1 ASB	B1, R7, R6
C47	1 1/2	NW CONT. BRD.	NW M MOT. RES.	3	#1 ASB	B1, R7, R6
C48	1 1/2	SW CONT. BRD.	SW M MOT. RES.	1	#1/0 ASB	R4
				1	#1 ASB	R5
C49	1 1/2	NW CONT. BRD.	NW M MOT. RES.	SAME	AS CONDUIT C48	
C50	1 1/2	SW CONT. BRD.	SW M MOT. RES.	3	#1 ASB	B4, R8, B10
C51	1 1/2	NW CONT. BRD.	NW M MOT. RES.	3	#1 ASB	B4, R8, B10
C52	1 1/2	SW CONT. BRD.	SW M MOT. RES.	3	#1 ASB	B2, B3, R7
C53	1 1/2	NW CONT. BRD.	NW M MOT. RES.	3	#1 ASB	B2, B3, R7
C54	2	SW CONT. BRD.	SW M MOT. RES.	1	#3/0 ASB	R1
				2	#1/0 ASB	R2, R3
C55	2	NW CONT. BRD.	NW M MOT. RES.	2	#3/0 ASB	R1
				1	#1/0 ASB	R2, R3
C56	1 1/2	SW CONT. BRD.	SW M MOT. RES.	3	#1 ASB	B20, B30, B40
C57	1 1/2	NW CONT. BRD.	NW M MOT. RES.	3	#1 ASB	B20, B30, B40
C58	2	SW CONT. BRD.	SW CHOVER SW.	4	#1	N20, N21, R5, R7
C59	2	NW CONT. BRD.	NW CHOVER SW.	4	#1	N20, N21, R5, R7
C60	2	SW CONT. BRD.	NW CHOVER SW.	4	#1	F20, F21, R6, R8
C61	2	NW CONT. BRD.	SW CHOVER SW.	4	#1	F20, F21, R6, R8
C64	2	SW CHOVER SW.	J-BOX	3	#1/0	A5, A6, A7
C65	2	NW CHOVER SW.	J-BOX	3	#1/0	A5, A6, A7
C66	2 1/2	SW CHOVER SW.	SW MOT. #1	4	#1/0	AA5, AA6, AA7, AA8
C67	2 1/2	NW CHOVER SW.	NW MOT. #1	4	#1/0	AA5, AA6, AA7, AA8
C68	2 1/2	SW CHOVER SW.	SW MOT. #2	4	#1/0	AA1, AA2, AA3, AA4
C69	2 1/2	NW CHOVER SW.	NW MOT. #2	4	#1/0	AA1, AA2, AA3, AA4
C70	3/4	BOX "E"	#1 MOT. BRK. SW	4	#14	1BR2, 1SBR, BR1, SPARE
C70A	3/4	BOX "D"	SW CONT. BRD.	4	#14	1BR2, 1SBR, BR1, SPARE
C71	3/4	NW CONT. BRD.	#1 MOT. BRK. NW	4	#14	1BR2, 1NBR, BR1, SPARE
C72	3/4	BOX "F"	#2 MOT. BRK. SW	4	#14	2BR2, 2SBR, BR1, SPARE
C72A	3/4	BOX "D"	SW CONT. BRD.	4	#14	2BR2, 2SBR, BR1, SPARE
C73	3/4	BOX "E"	#2 MOT. BRK. NW	4	#14	2BR2, 2NBR, BR1, SPARE
C73A	3/4	BOX "D"	NW CONT. BRD.	4	#14	2BR2, 2NBR, BR1, SPARE
C74	1 1/4	NW CHOVER SW.	SW CHOVER SW.	11	#14	65, 66, 67, 87A,88A,212,350, 351, 470N AND 2 SPARES
C75	1	NW CHOVER SW.	NW CONT. BRD.	4	#14	89AN, Y, 115N, 349
C76	1	SW CHOVER SW.	SW CONT. BRD.	4	#14	89AS, Y, 115S, 190
C77	1	NW CONT. BRD.	J-BOX	1	#2/0	A8
C78	1	SW CONT. BRD.	J-BOX	1	#2/0	A8
C79	3/4	NW CHOVER SW.	J-BOX	4	#14	88N, 48N, 87N, 470N
C80	3/4	SW CHOVER SW.	J-BOX	6	#14	210, 270S, 48S, 65, 66, 67
C83	1	FDR. PAN. NW	J-BOX	1	#2/0	INSTALLED
C84	1	FDR. PAN. SW	J-BOX	1	#2/0	INSTALLED
C85	3/4	SW CONT. BRD.	NW P PUMP	3	#14	287, 288, 289
C86	3/4	BOX "E"	SW P PUMP	3	#14	290, 291, 292
C86A	3/4	BOX "D"	SW CONT. BRD.	3	#14	290, 291, 292
C89	3/4	NW FL PAN.	FLASHER WEST	5	#14	299XA, 299XB, 299XC,299XD, 300
C90	3/4	SW CONT. BRD.	NW CONT. BRD.	3	#12	K, 298, 1919
C91	3/4	NW FL PAN.	FLASHER WEST	2	#14	299, 300

EXISTING CONDUIT AND WIRE

CONDUIT NO.	SIZE	FROM	TO	NO. OF WIRE	SIZE	WIRE MARKS
C93	3/4	NW CONT. BRD.	NW FC SW.	2	#10	90, 309A
C96	1 1/4	BOX "D"	SW CTLK PAN.	4 4	#8 #14	C6, C7, C8, YS C9, L3, L4, L5
C97	1 1/2	SW CONT. BRD.	AC LTG. CAB.	4	#4	295, 296, 297, K
C98	3/4	SW CONT. BRD.	OIL BURNER	2	#14	K, 302
C99	1	SPEED GOV. JBOX	M LEAF LS	7	#14	220, 143, 146,140,141,145,144
C100	1 1/4	SPEED GOV. JBOX	SW CONT. BRD.	9	#14	131, 132, 133,134,140,141,144, 157, 145
C100A	1 1/4	SPEED GOV. JBOX	SPEED GOV.	12	#14	131, 132, 133,134,136,137,138, 139, 144, 145, 152, 157
C101	1 1/4	SPEED GOV. JBOX	SW CONT. BRD.	8	#14	220, 143, 146,152,136,137,138, 139
C102	1 1/4	SW CONT. BRD.	J-BOX	8	#14	1SBR, 2SBR,162,163,164,165, 166, 174
C103	1 1/4	NW CONT. BRD.	J-BOX	9	#14	L6A, L7A, L8A, L9A, L21A, 314A, 315A
C104	1 1/4	NW CONT. BRD.	J-BOX	6	#14	480N, 60N, 201N,201AN,93A, 94A
C105	1	K-BOX	J-BOX	10	#14	260, 261, 262, 263,264,236, 239, 242, 400, 400A
C106A	3/4	F-BOX	SE P LAMP	2	#14	242, 400A
C106B	3/4	E-BOX	MD. P LAMP	2	#14	242, 400A
C106C		D-BOX	K-BOX	9	#14	242, 265, 400,400A,260,261 262, 263, 265
C106D	3/4	K-BOX	NE P LAMP	2	#14	242, 400A
C107	1	SW CONT. BRD.	J-BOX	15	#14	FS1,FS2,FS3,FS4,FS5,FS6,FA1, FA2,FA3,FA4,FA5,FA6,L11,L12,P
C108	1 1/2	J-BOX	SW GATE BOX	20	#14	95,95A,96,96A,109,109A,93,94 110 THRU 114,116,93A,94A, 110A THRU 113A
C109	1	J-BOX	NW CONT. BRD.	3	#14	100, 1NBR2, 2NBR
C110	1 1/4	J-BOX	SW CONT. BRD.	13	#14	64S, 201S, 201AS,93,94,143, 146, L9, L21, Y, L6, L7, L8
C111	1 1/2	J-BOX	INSTRUMENT BRD.	6 14	#10 #14	318 THRU 323 S1, S2, R11, R12,R13,S1,S2,R1, R2, R3, Y, V3, S1, S2
C112	1 1/4	J-BOX	SW CONT. BRD.	12	#14	100, 123, 147,152,154,220,220 XSW, XNW, 5SW, 5NW, 480S
C114	1 1/4	J-BOX	SW CONT. BRD.	13	#14	102, Y, 95,220,110 THRU 114, 116, 130, 140, 144
C115	3/4	J-BOX	NW CONT. BRD.	6	#14	156, 160, 110A,111A,112A,113A
C117	1	J-BOX	SW CONT. BRD.	8	#14	279, 281, 282,316,S1,S2,235,X
C118	1 1/4	J-BOX	MASTER CONT.	15	#14	123,147,152,154,220,143,146,162, 163,164,165,166,174,156,160
C118A	3/4	MASTER CONT.	MASTER FT. SW.	2	#14	142,220
C119	1 1/4	J-BOX	SEATING SW. BOX	11	#14	130, 140, 144, 220, 266, 267, 268, 268A, 269, 266, 268
C119A	3/4	NW AUX. CONT.	NW FT. SW.	2	#14	64N, 65
C119B	3/4	SW AUX. CONT.	SW FT. SW.	2	#14	64S, 65
C121	3/4	I-BOX	M-BOX	6	#14	225, 226, 227, 231, 236, 400
C121A	1	M-BOX	K-BOX	8	#14	226,227,231,236,400 AND 3 LTG. WIRES
C121B	3/4	LTG. CAB.	K-BOX	4	#14	228, 231, 264, 265
C122	3/4	I-BOX	M LEAF LS	3	#14	236, 237, 238
C123	1	I-BOX	A-1 BOX	7	#14	225, 226, 227, 231, 237, 238, 400
C125	1	LTG. CAB.	M-BOX	6	#14	225, 231, 231, 3 LTG. WIRES
C126	3/4	D-BOX	X-BOX	4	#14	228, 229, 230, 231
C126A	3/4	K-BOX	J-BOX	8	#14	229, 230, 226, 227, 231 AND 3 LTG. WIRES
C128	3/4	E-BOX	SW FC SW.	2	#10	190, 314
C130	3/4	H-BOX	AUX. SPAN LS	3	#14	239, 240, 241
C133	3/4	NW HENS. TRANS.	J-BOX	5	#14	S1, S2, R1, R2, R3
C134	3/4	F-BOX	SW HENS. TRANS.	5	#14	S1, S2, R11, R12, R13
C134A	3/4	D-BOX	J-BOX	5	#14	S1, S2, R11, R12, R13
C135	1	CL. PBOX	CL. LS	7	#14	210, 350, 351, 470N, 470S, 480N, 480S
C135A	1 1/4	D-BOX	J-BOX	7 2	#14 #10	313, 316, Y, 191,192,346,347 308, 308A
C136	1	CLUTCH PBOX	CL. MOT. & BRAKE	5	#14	254, 255, 256, SF, YN
C136A	1	D-BOX	CL. AND FL PANEL	8	#14	254, 255, 256, SF, YN 250, 251, 220
C137	3/4	CLUTCH PBOX	CLUTCH LS	6	#14	220, 346, 347, 250, 251, Y
C137A	3/4	D-BOX	SW CHOVER SW.	6	#14	210, 350, 351,470N,470S,212
C138	2	E-BOX	CLUTCH PBOX	18	#14	220, 346, 347, 250, 251, YN, 210, 350, 351, 470N, 470S, 480N, 480S, Y, 255, 256, SF, 254

NOTE:

1. CONTRACTOR SHALL VERIFY THE ACCURACY OF THE EXISTING CONDUITS AND CABLES.

PB Americas, Inc.
230 WEST MONROE STREET,
SUITE 900
CHICAGO, IL. 60606

USER NAME = sharma	DESIGNED - A. CENTENO	REVISED -	
FILE NAME = D160d61-sht-elc-66.dgn	DRAWN - S. SHARMA	REVISED -	
PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -	
PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING CONDUIT AND WIRE SCHEDULE - WEST SIDE
SHEET 1

SCALE: AS SHOWN | SHEET NO. E-66 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	337
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

EXISTING CONDUIT AND WIRE

CONDUIT NO.	SIZE	FROM	TO	NO. OF WIRE	SIZE	WIRE MARKS
C139	3/4	CL. & FL PAN.	J-BOX	3	#14	98, 252, 348
C140	3/4	CLUTCH PBOX	CLUTCH MOT. BRK.	2	#14	254, SF
C141	1 1/2	D-BOX	SW CONT. BRD.	6 5	#10 #14	T11, T12, T13, T21, T22, T23 270, 271, 272,273,274
C142	2	NEAR BAR. WEST	E-BOX	5 8	#10 #14	T21, T22, T23, 314, 312B 265, 262, 273,191,260,270,
						274, 191A
C144	2	FAR. BAR. WEST	F-BOX	5 8	#10 #14	T12, T11, T13, 312B, 315 261, 263, 265,270,271,272
						190, 191A
C145	1	SW CONT. BRD.	J-BOX	6	#10	318, 319, 320, 321,322, 323
C146	1 1/4	BAR. CONT. BOX	J-BOX	11	#14	279, 281, 282, 316,313, 316, 260, 261, 262, 263, 264
C153	1	NW GATE BOX	SW GATE BOX	9	#14	93A, 94A, 95A,96A,109A,110A, 1111A, 112A, 113A
C154	2	J-BOX	NW AUX. CONT.	13	#14	E3,E7,E8,YS,119,120,279,99, 299XA,299XB,300A,300B
C155	2	J-BOX	NW AUX. CONT.	4 5	#1 ASB #14	AR1, AR2, AR3, AR4 201N, 201AN, 480N, 64N, 65
C156						
C157	2	J-BOX	SW AUX. CONT.	4 5	#1 ASB #14	AR1, AR2, AR3, AR4 201S, 201AS, 480S, 64S, 65
C158	2	J-BOX	SW AUX. CONT.	1 3	#1 ASB #1/0	AR5 A5, A6, A7
C159		J-BOX	SW AUX. CONT.	1 2	#2/0 ASB #2/0	AR6 A4, A8
C136A	1	D-BOX	CL. & FL. PAN.	8	#14	YN, SF, 250, 251, 254, 255, 256, 220
C161	2	J-BOX	BENCHBOARD			
C162	2	J-BOX	BENCHBOARD			
C163	2	J-BOX	BENCHBOARD			
C164	2	J-BOX	BENCHBOARD			
C165	1	J-BOX	NW CTLK CONT.	6	#14	L6A, L7A, L8A,L9A,L21A,YN
C166	1	J-BOX	SW CTLK CONT.	6	#14	L6, L7, L8, L9, L21, YS
C167	3/4	J-BOX	CTLK LTG. BOX	5	#14	229, 230, 226, 227, 231
C200	2 1/2	J-BOX	E-BOX	13	#14	BR1, 2BR2, 2SBR,BR1,1BR2,99 1SBR, BR1, 2BR2, 2NBR,
				8	#12	3 SPARES LTG. CCTS 1 THRU 6
C201	2 1/2	E-BOX	F-BOX	20	#14	BR1, 2BR2, 2SBR,281,280,191, 191A, 299XA,300A,299XB,292,
						300B, 400A, 265, 260, 262, 270, 273, 274, 1 SPARE
				2 3	#10 #12	311A, 312B LTG. CCTS 1, 3
C202	2 1/2	D-BOX	F-BOX			SPARE
C203	2 1/2	D-BOX	F-BOX	16	#14	266, 267, 268, 269, 268A, 228, 229, 230,231,400,239,
				4	#12	S1, S2, R11, R12, R13, 313, 316, STR. LTG. BALL
				13	#14	GE, FE, EW, GW, DE, EE, DW, FW, T11, T12,T13,313A,316A
C204	2 1/2	D-BOX	F-BOX	20	#14	192, L5, L4, L3,212,F3,F7,F8, YS, 121, 122, D3,D7,D8,YS,117,
				4	#10	118, 99,YS 70, 78B 308, 308A
				4	#8	C6, C7, C8, YS
C205	2 1/2	D-BOX	E-BOX	23	#14	290, 291, 292,242,400A,261, 263, 265, 271,272,270,260,
						262, 273, 274, 299XC, 300C, 279, 299XA, 299XB, 300A,
				4	#12	300B, 281 STR. LTG. BALL
				3	#10	T21, T22, T23
C206	2 1/2	D-BOX	E-BOX	31	#14	220, 346, 347,250,251,YN, 263, 265, 271,272,270,260,
						210, 350, 351, 470N, 470S, 480N, 480S,255,254,Y,D3A,
						D7A, D8A, YN,117A,118A,E3, E7, E8, YS, 119,120,191,256,
				2	#10	SF 310A, 190
CP1	3/4	F-BOX	LTG. POLE SW.	4	#12	BALLASTS
CP2	3/4	E-BOX	LTG. POLE CTR	4	#12	BALLASTS
CP3	1	D-BOX	LTG. POLE BALL. BOX	8	#12	BALLASTS
CP4	3/4	NW LTG. POLE	LTG. POLE BALL. BOX	4	#12	BALLASTS
CB	1/2	OPER. BUZZ	J-BOX	2	#14	266, 268
CB1	3/4	B-BOX	J-BOX	5	#14	266, 267, 268, 268A, 269
CB2	3/4	B-BOX	MACH. RM. BUZZ. NW	2	#14	266, 268A
CB3	3/4	B-BOX	LTG. CAB.	5	#14	266, 267, 268, 268A, 269
CB4	1/2	CONT. RM. BUZZ.	LTG. CAB.	2	#14	266, 268A
CB5	3/4	D-BOX	LTG. CAB.	5	#14	266, 267, 268, 268A, 269
CB6	3/4	F-BOX	G-BOX	4	#14	266, 267, 268, 269
CB7	3/4	F-BOX	MACH. RM. BUZZ. SW	2	#14	266, 268A
CB8	3/4	G-BOX	TEL. SUB. CABLE BOX	4	#14	266, 267, 268, 269

EXISTING CONDUIT AND WIRE

CONDUIT NO.	SIZE	FROM	TO	NO. OF WIRE	SIZE	WIRE MARKS
CTS1	1	C-BOX	G-BOX	6	#14	401, 402, 403, 404,405,406
CTS2	3/4	G-BOX	FITTING "T"	6	#14	401, 402, 403, 404,405,406
CTS3	3/4	FITTING "T"	TEL. SUB. CABLE BOX	6	#14	401, 402, 403, 404,405,406
CT1	3/4	NW MACH. RM. TEL.	NW CONTROL RM.	M. T.		
CT2	3/4	FITTING "T"	TEL. SW	4	#14	401, 402, 403, 404
CT3	3/4	C-BOX	NW MACH. RM., CONTROL ROOM AND HSE. TEL.	4	#14	401, 402, 403, 404
CS1	3/4	C-BOX	S-BOX	2	#14	405, 406
CS2	3/4	S-BOX	NW INT. SPKR.	5	#14	
CS3	3/4	S-BOX	NW AMPL.	2 5	#14 #14	405, 406
CS4	1/2	NW AMPL.	SPKR. JBOX HSE.			
CS5	3/4	NW AMPL.	SPKR. JBOX HSE.			
CL1	3/4	F-BOX	SW MACH. RM. LTG.	3	#12	CCTS 1 AND 3
CL2	3/4	E-BOX	CTR MACH. RM LTG.	6	#12	CCTS 2, 4, 5, 6
CL3	1	D-BOX	LTG. CAB.	8	#12	CCTS 1 THRU 6
CL	1/2	J-BOX	OPER. HSE. CCTS	3	#12	2 CCTS (#18, #19)

NOTE:

1. CONTRACTOR SHALL VERIFY THE ACCURACY OF THE EXISTING CONDUITS AND CABLES.

CONDUIT AND WIRE SCHEDULE

	CONDUIT		FROM	TO	CONDUCTORS			
	NO.	SIZE			ACTIVE	GROUND	SPARES	SERVICE
*	P01	4"	OUTDOOR 12KV SWITCHGEAR	TRANSFORMER, 1000KVA (PRIMARY) 12KV-480/277V, 3PHASE	BY COMED	BY COMED	-	TRANSFORMER, 1000KVA
	P02	4"	OUTDOOR 12KV SWITCHGEAR	TRANSFORMER, 1000KVA (PRIMARY) 12KV-480/277V,3PHASE	-	-	SPARE	
	P03	6-3"	TRANSFORMER, 1000KVA (SEC.) 12KV-480/277V, 3PHASE	PULL BOX	6 SETS OF 4-350 Kcmil	6 SETS OF 1 #4/0	-	MAIN SWITCHBOARD, 1600A, 480V, 3P, 4W
	P04	6-3"	EMERGENCY GENERATOR, 800KW/ 1000KVA, 480/277V, 3PHASE	PULL BOX	6 SETS OF 4-350 Kcmil	6 SETS OF 1 #4/0	-	MAIN SWITCHBOARD, 1600A, 480V, 3P, 4W
	P05	6-3"	PULL BOX	AUTO TRANSFER SWITCH, 1600A, EMERGENCY SIDE	6 SETS OF 4-350 Kcmil	6 SETS OF 1 #4/0	-	MAIN SWITCHBOARD, 1600A, 480V, 3P, 4W
	P06	6-3"	PULL BOX	SERVICE ENTRANCE DISCONNECT, 1600A, 480/277V, 3PHASE, 4WIRE	6 SETS OF 4-350 Kcmil	6 SETS OF 1 #4/0	-	MAIN SWITCHBOARD, 1600A, 480V, 3P, 4W
	P07	6-3"	AUTO TRANSFER SWITCH, 1600A, NORMAL SIDE	SERVICE ENTRANCE DISCONNECT, 1600A, 480/277V, 3PHASE, 4WIRE	6 SETS OF 4-350 Kcmil	6 SETS OF 1 #4/0	-	MAIN SWITCHBOARD, 1600A, 480V, 3P, 4W
	P08	6-3"	AUTO TRANSFER SWITCH, 1600A, LOAD SIDE	INCOMING BREAKER, 1600A MAIN SWITCHBOARD, 480V,3P,4W	6 SETS OF 4-350 Kcmil	6 SETS OF 1 #4/0	-	MAIN SWITCHBOARD, 1600A, 480V, 3P, 4W
	P09	3-3"	MAIN SWITCHBOARD, 1600A, 480V, 3P, 4W	INCOMING BREAKER, 800A MCC-EB-1, 480V, 3P, 4W	3 SETS OF 4-350 Kcmil	3 SETS OF 1 #2/0	-	MCC-EB-1 (EASTBOUND)
	P10	2 1/2"	MAIN SWITCHBOARD, 1600A, 480V, 3P, 4W	INCOMING BREAKER, 200A DB-E1, 480V, 3P, 4W	4 #4/0	1 #2	-	MCC-E1 (EAST SIDE)
	P11	3-3"	MAIN SWITCHBOARD, 1600A, 480V, 3P, 4W	INCOMING BREAKER, 800A MCC-WB-1, 480V, 3P, 4W	3 SETS OF 4-350 Kcmil	3 SETS OF 1 #2/0	-	MCC-WB-1 (WESTBOUND)
	P12	2 1/2"	MAIN SWITCHBOARD, 1600A, 480V, 3P, 4W	INCOMING BREAKER, 200A DB-W1, 480V, 3P, 4W	4 #4/0	1 #2	-	MCC-W1 (EAST SIDE)
	P13	2"	MCC-WB-1 (WESTBOUND)	DV-NE-N DRIVE 3	3 #2/0	1 #4	-	M-NE-N DRIVE MOTOR
	P14	2"	DV-NE-N DRIVE 3	M-NE-N DRIVE MOTOR, 75 HP	3 #2/0	1 #4	-	M-NE-N DRIVE MOTOR
	P15	3/4"	MCC-WB-1 (WESTBOUND)	MOB-NE-N, 1 HP	3 #10	1 #12	-	MOB-NE-N
	P16	3/4"	MCC-WB-1 (WESTBOUND)	XFR-W3, 15 KVA, PRIMARY 480V, 3 PHASE	3 #10	1 #10		XFR-W3, 15KVA
	P17	1 1/4"	XFR-W3, 15 KVA, SECONDARY 208/120V, 3PHASE, 4WIRE	DISTRIBUTION PANEL DP-W3	4 #6	1 #8		DP-W3
	P18	3/4"	MCC-WB-1 (WESTBOUND)	MB-NE-N, 1 HP	3 #10	1 #12	-	MB-NE-N
	P19	2"	MCC-WB-1 (WESTBOUND)	DV-NE-S DRIVE 4	3 #2/0	1 #4	-	M-NE-S DRIVE MOTOR
	P20	2"	DV-NE-S DRIVE 4	M-NE-S DRIVE MOTOR, 75 HP	3 #2/0	1 #4	-	M-NE-S DRIVE MOTOR
	P21	3/4"	MCC-WB-1 (WESTBOUND)	MOB-NE-S, 1 HP	3 #10	1 #12	-	MOB-NE-S
	P22	3/4"	MCC-WB-1 (WESTBOUND)	MB-NE-S, 1 HP	3 #10	1 #12	-	MB-NE-S
	P23	2"	MCC-EB-1 (EASTBOUND)	DV-SE-N DRIVE 3	3 #2/0	1 #4	-	M-SE-N DRIVE MOTOR
	P24	2"	DV-SE-N DRIVE 3	M-SE-N DRIVE MOTOR, 75 HP	3 #2/0	1 #4	-	M-SE-N DRIVE MOTOR
	P25	3/4"	MCC-WB-1 (EASTBOUND)	MOB-SE-N, 1 HP	3 #10	1 #12	-	MOB-SE-N
	P26						-	NOT USED
	P27	3/4"	MCC-EB-1 (EASTBOUND)	MB-SE-N, 1 HP	3 #10	1 #12	-	MB-SE-N
	P28	2"	MCC-EB-1 (EASTBOUND)	DV-SE-S DRIVE 4	3 #2/0	1 #4	-	M-SE-S DRIVE MOTOR
	P29	2"	DV-SE-S DRIVE 4	M-SE-S DRIVE MOTOR, 75 HP	3 #2/0	1 #4	-	M-SE-S DRIVE MOTOR
	P30	3/4"	MCC-EB-1 (EASTBOUND)	MOB-SE-S, 1 HP	3 #10	1 #12	-	MOB-SE-S
	P31	1"	MCC-WB-1 (WESTBOUND)	VFDS FOR BG-NE-N AND BG-NE-S AND	3 #8	1 #10	-	BG-NE-N/BG-NE-S
	P32	3/4"	MCC-EB-1 (EASTBOUND)	MB-SE-S, 1 HP	3 #10	1 #12	-	MB-SE-S
	P33	3/4"	MCC-EB-1 (EASTBOUND)	TG-SE-N, 1/2 HP	3 #10	1 #12	-	TG-SE-N
	P34	3/4"	MCC-EB-1 (EASTBOUND)	TG-SE-S, 1/2 HP	3 #10	1 #12	-	TG-SE-S
	P35	3/4"	VFD	BG-NE-N, 3 HP	5 #10	1 #12	-	BG-NE-N MOTOR AND BRAKE
	P36	3/4"	MCC-WB-1 (WESTBOUND)	TG-NE-N, 1/2 HP	3 #10	1 #12	-	TG-NE-N
	P37	3/4"	VFD	BG-NE-S, 3 HP	5 #10	1 #12	-	BG-NE-S MOTOR AND BRAKE
	P38	3/4"	MCC-WB-1 (WESTBOUND)	TG-NE-S, 1/2 HP	3 #10	1 #12	-	TG-NE-S
	P39	3/4"	MCC-WB-1 (WESTBOUND)	SUMP PUMP CONTROL PANEL	3 #10	1 #12	-	SUMP PUMP MOTOR (NE)
	P39A	1 1/2"	SUMP PUMP CONTROL PANEL	SUMP PUMP MOTOR (NE), 1.5 HP	FURNISHED PANEL MAN	BY CONTROL UFACTURER	-	SUMP PUMP MOTOR (NE)
	P40	3/4"	MCC-EB-1 (EASTBOUND)	SUMP PUMP CONTROL PANEL	3 #10	1 #12	-	SUMP PUMP MOTOR (SE)
	P40A	1 1/2"	SUMP PUMP CONTROL PANEL	SUMP PUMP MOTOR (SE), 1.5 HP	FURNISHED PANEL MAN	BY CONTROL UFACTURER	-	SUMP PUMP MOTOR (SE)
	P41	1 1/4"	DB-E1 (EAST SIDE)	XFR-E1, 45 KVA, PRIMARY 480V, 3 PHASE	3 #4	1 #8	-	XFR-E1, 45KVA
	P41A	2"	XFR-E1, 45 KVA, SECONDARY 208/120V, 3PHASE, 4WIRE	LIGHTING PANEL LP-E1	4 #1/0	1 #6	-	LP-E1
	P42	3/4"	MCC-EB-1 (EASTBOUND)	XFR-E2, 15 KVA, PRIMARY 480V, 3 PHASE	3 #10	1 #10	-	XFR-E2, 15KVA
	P42A	1 1/4"	XFR-E2, 15 KVA, SECONDARY 208/120V, 3PHASE, 4WIRE	DISTRIBUTION PANEL DP-E2	4 #6	1 #8	-	DP-E2

CONDUIT AND WIRE SCHEDULE

CONDUIT		FROM	TO	CONDUCTORS			
NO.	SIZE			ACTIVE	GROUND	SPARES	SERVICE
P43	2 1/2"	MCC-WB-1 (WESTBOUND)	POWER SUBMARINE TERMINAL CABINET NO. 1NE	3-250 KCMIL	1 #1	-	M-NW-N DRIVE MOTOR
P43A		POWER SUBMARINE TERMINAL CABINET NO. 1NE	POWER SUBMARINE TERMINAL CABINET NO. 1NW	SUBMARINE 3-250 KCMIL	CABLE 'B' 1 #1	-	M-NW-N DRIVE MOTOR
P43B	2 1/2"	POWER SUBMARINE TERMINAL CABINET NO. 1NW	DV-NW-N DRIVE 1	3-250 KCMIL	1 #1	-	M-NW-N DRIVE MOTOR
P44	2 1/2"	DV-NW-N DRIVE 1	M-NW-N DRIVE MOTOR, 75 HP	3-250 KCMIL	1 #1	-	M-NW-N DRIVE MOTOR
P45	1"	MCC-WB-1 (WESTBOUND)	POWER SUBMARINE TERMINAL CABINET NO. 1NE	3 #8	1 #8	-	MOB-NW-N
P45A		POWER SUBMARINE TERMINAL CABINET NO. 1NE	POWER SUBMARINE TERMINAL CABINET NO. 1NW	SUBMARINE 3 #8	CABLE 'A' 1 #8	-	MOB-NW-N
P45B	1"	POWER SUBMARINE TERMINAL CABINET NO. 1NW	MOB-NW-N, 1 HP	3 #8	1 #8	-	MOB-NW-N
P46						-	NOT USED
P47	1"	MCC-WB-1 (WESTBOUND)	POWER SUBMARINE TERMNAL CABINET NO. 1NE	3 #8	1 #8	-	MB-NW-N
P47A		POWER SUBMARINE TERMINAL CABINET NO. 1NE	POWER SUBMARINE TERMINAL CABINET NO. 1NW	SUBMARINE 3 #8	CABLE 'A'	-	MB-NW-N
P47B	1"	POWER SUBMARINE TERMINAL CABINET NO. 1NW	MB-NW-N, 1 HP	3 #8	1 #8	-	MB-NW-N
P48	2 1/2"	MCC-WB-1 (WESTBOUND)	POWER SUBMARINE TERMINAL CABINET NO. 1NE	3-250 KCMIL	1 #1	-	M-NW-S DRIVE MOTOR
P48A		POWER SUBMARINE TERMINAL CABINET NO. 1NE	POWER SUBMARINE TERMINAL CABINET NO. 1NW	SUBMARINE 3-250 KCMIL	CABLE 'B'	-	M-NW-S DRIVE MOTOR
P48B	2 1/2"	POWER SUBMARINE TERMINAL CABINET NO. 1NW	DV-NW-S DRIVE 2	3-250 KCMIL	1 #1	-	M-NW-S DRIVE MOTOR
P49	2 1/2"	DV-NW-S DRIVE 2	M-NW-S DRIVE MOTOR, 75 HP VIA PBOX NO. 3NW	3-250 KCMIL	1 #1	-	M-NW-S DRIVE MOTOR
P50	1"	MCC-WB-1 (WESTBOUND)	POWER SUBMARINE TERMINAL CABINET NO. 1NE	3 #8	1 #8	-	MOB-NW-S
P50A		POWER SUBMARINE TERMINAL CABINET NO. 1NE	POWER SUBMARINE TERMINAL CABINET NO. 1NW	SUBMARINE 3 #8	CABLE 'A'	-	MOB-NW-S
P50B	1"	POWER SUBMARINE TERMINAL CABINET NO. 1NW	MOB-NW-S, 1 HP VIA PBOX NO. 3NW	3 #8	1 #8	-	MOB-NW-S
P51						-	NOT USED
P52	1"	MCC-WB-1 (WESTBOUND)	POWER SUBMARINE TERMINAL CABINET NO. 1NE	3 #8	1 #8	-	MB-NW-S
P52A		POWER SUBMARINE TERMINAL CABINET NO. 1NE	POWER SUBMARINE TERMINAL CABINET NO. 1NW	SUBMARINE 3 #8	CABLE 'A'	-	MB-NW-S
P52B	1"	POWER SUBMARINE TERMINAL CABINET NO. 1NW	MB-NW-S, 1 HP VIA PBOX NO. 3NW	3 #8	1 #8	-	MB-NW-S
P53	1"	MCC-WB-1 (WESTBOUND)	POWER SUBMARINE TERMNAL CABINET NO. 1NE	3 #8	1 #8	-	TG-NW-N
P53A		POWER SUBMARINE TERMNAL CABINET NO. 1NE	POWER SUBMARINE TERMNAL CABINET NO. 1NW	SUBMARINE 3 #8	CABLE 'C'	-	TG-NW-N
P53B	1"	POWER SUBMARINE TERMNAL CABINET NO. 1NW	TG-NW-N, 1/2 HP	3 #8	1 #8	-	TG-NW-N
P54	1"	MCC-WB-1 (WESTBOUND)	POWER SUBMARINE TERMNAL CABINET NO. 1NE	3 #8	1 #8	-	TG-NW-S
P54A		POWER SUBMARINE TERMINAL CABINET NO. 1NE	POWER SUBMARINE TERMINAL CABINET NO. 1NW	SUBMARINE 3 #8	CABLE 'A'	-	TG-NW-S
P54B	1"	POWER SUBMARINE TERMINAL CABINET NO. 1NW	TG-NW-S, 1/2 HP VIA PULL BOXES 3NW AND 4NW	3 #8	1 #8	-	TG-NW-S
P55	1"	MCC-WB-1 (WESTBOUND)	POWER SUBMARINE TERMINAL CABINET NO. 1NE	3 #8	1 #8	-	SUMP PUMP MOTOR (NW)
P55A		POWER SUBMARINE TERMINAL CABINET NO. 1NE	POWER SUBMARINE TERMINAL CABINET NO. 1NW	SUBMARINE 3 #8	CABLE 'C'	-	SUMP PUMP MOTOR (NW)
P55B	1"	POWER SUBMARINE TERMINAL CABINET NO. 1NW	SUMP PUMP CONTROL PANEL(NW)	3 #8	1 #8		SUMP PUMP MOTOR (NW)
P55C	1 1/2"	SUMP PUMP CONTROL PANEL	SUMP PUMP MOTOR (NW), 1.5 HP	FURNISHED PANEL MAN	BY CONTROL UFACTURER	-	SUMP PUMP MOTOR (NW)
P56	2"	MCC-WB-1 (WESTBOUND)	POWER SUBMARINE TERMINAL CABINET NO. 1NE	3 #1/0	1 #1/0	-	XFR-W2, 15 KVA
P56A		POWER SUBMARINE TERMINAL CABINET NO. 1NE	POWER SUBMARINE TERMINAL CABINET NO. 1NW	SUBMARINE 3 #1/0	CABLE 'D'	-	XFR-W2, 15 KVA
P56B	2"	POWER SUBMARINE TERMINAL CABINET NO. 1NW	XFR-W2, 15 KVA, PRIMARY VIA DISCONNECT SWITCH, 100A,	3 #1/0	1 #1/0	-	XFR-W2, 15 KVA
P56C	1 1/4"	XFR-W2, 15 KVA, SECONDARY 208/120V, 3 PHASE, 4 WIRE	DISTRIBUTION PANEL DP-W2	4 #6	1 #8	-	DP-W2
P56D						-	NOT USED
P57	2 1/2"	DB-W-1 (WEST SIDE)	POWER SUBMARINE TERMINAL CABINET NO. 1NE	3 #4/0	1 #1/0	-	XFR-W1, 45 KVA
P57A		POWER SUBMARINE TERMINAL CABINET NO. 2NE	POWER SUBMARINE TERMINAL CABINET NO. 2NW	SUBMARINE 3 #4/0	CABLE 'E' 1 #1/0	-	XFR-W1, 45 KVA
P57B	2 1/2"	POWER SUBMARINE TERMINAL CABINET NO. 2NW	SPLICE BOX	3 #4/0	1 #1/0	-	XFR-W1, 45 KVA
P57C	2"	SPLICE BOX	XFR-W1, 45 KVA, PRIMARY VIA DISCONNECT SWITCH, 100A,	3 #1/0	1 #1/0	-	XFR-W1, 45 KVA
P57D	2"	XFR-W1, 45 KVA, SECONDARY 480V, 3 PHASE, 4 WIRE	LIGHTING PANEL LP-W1	4 #1/0	1 #4	-	LP-W1
P58	1"	MCC-WB-1 (WESTBOUND)	POWER SUBMARINE TERMINAL CABINET NO. 1NE	3 #6	1 #6	-	CL-NW-N
P58A		POWER SUBMARINE TERMINAL CABINET NO. 1NE	POWER SUBMARINE TERMINAL CABINET NO. 1NW	SUBMARINE 3 #6	CABLE 'C 1 #6	-	CL-NW-N
P58B	1"	POWER SUBMARINE TERMINAL CABINET NO. 1NW	CL-NW-N, 5 HP VIA PBOXES 3NW AND 4NW	3 #6	1 #6	-	CL-NW-N
P59	1"	MCC-WB-1 (WESTBOUND)	POWER SUBMARINE TERMINAL CABINET NO. 1NE	3 #6	1 #6	-	CL-NW-S

* CONDUIT AND WIRES TO BE INSTALLED BY THE CONTRACTOR, WIRES TO BE FURNISHED BY COMED.

PB Americas, Inc.
230 WEST MONROE STREET,
SUITE 900
CHICAGO, IL. 60606

USER NAME = sharma	DESIGNED - A. CENTENO	REVISED -	
FILE NAME = D16d61-sht-elc-68.dgn	DRAWN - S. SHARMA	REVISED -	
PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -	
PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONDUIT AND WIRE SCHEDULE
SHEET 1

SCALE: AS SHOWN | SHEET NO. E-68 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	339
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

CONDUIT AND WIRE SCHEDULE

CONDUIT NO.	CONDUIT SIZE	FROM	TO	CONDUCTORS ACTIVE	CONDUCTORS GROUND	CONDUCTORS SPARES	CONDUCTORS SERVICE
P59A		POWER SUBMARINE TERMINAL CABINET NO. 1NE	POWER SUBMARINE TERMINAL CABINET NO. 1NW	SUBMARINE 3 #6	CABLE 'C'	-	CL-NW-S
P59B	1″	POWER SUBMARINE TERMINAL CABINET NO. 1NW	CL-NW-S, 5 HP VIA PBOXES 3NW AND 4NW	3 #6	1 #6	-	CL-NW-S
P60	3″	MCC-EB-1 (EASTBOUND)	POWER SUBMARINE TERMINAL CABINET NO. 1SE	3-350 KCMIL	1 #1/0	-	M-SW-N DRIVE MOTOR
P60A		POWER SUBMARINE TERMINAL CABINET NO. 1SE	POWER SUBMARINE TERMINAL CABINET NO. 1SW	SUBMARINE 3-350 KCMIL	CABLE 'F' 1 #1/0	-	M-SW-N DRIVE MOTOR
P60B	3″	POWER SUBMARINE TERMINAL CABINET NO. 1SW	DV-SW-N DRIVE 1	3-350 KCMIL	1 #1/0	-	M-SW-N DRIVE MOTOR
P61	3″	DV-SW-N DRIVE 1	M-SW-N DRIVE MOTOR, 75 HP VIA PBOXES 3NW AND 4NW	3-350 KCMIL	1 #1/0	-	M-SW-N DRIVE MOTOR
P61A						-	NOT USED
P62	1″	MCC-EB-1 (EASTBOUND)	POWER SUBMARINE TERMINAL CABINET NO. 1SE	3 #8	1 #8	-	MOB-SW-N
P62A		POWER SUBMARINE TERMINAL CABINET NO. 1SE	POWER SUBMARINE TERMINAL CABINET NO. 1SW	SUBMARINE 3 #8	CABLE 'G' 1 #8	-	MOB-SW-N
P62B	1″	POWER SUBMARINE TERMINAL CABINET NO. 1SW	MOB-SW-N, 1 HP VIA PBOXES 3NW AND 4NW	3 #8	1 #8	-	MOB-SW-N
P63						-	NOT USED
P64	1″	MCC-EB-1 (EASTBOUND)	POWER SUBMARINE TERMINAL CABINET NO. 1SE	3 #8	1 #8	-	MB-SW-N
P64A		POWER SUBMARINE TERMINAL CABINET NO. 1SE	POWER SUBMARINE TERMINAL CABINET NO. 1SW	SUBMARINE 3 #8	CABLE 'G'	-	MB-SW-N
P64B	1″	POWER SUBMARINE TERMINAL CABINET NO. 1SW	MB-SW-N, 1 HP VIA PBOXES 3NW AND 4NW	3 #8	1 #8	-	MB-SW-N
P65	3″	MCC-EB-1 (EASTBOUND)	POWER SUBMARINE TERMINAL CABINET NO. 1SE	3-350 KCMIL	1 #1/0	-	M-SW-S DRIVE MOTOR
P65A		POWER SUBMARINE TERMINAL CABINET NO. 1SE	POWER SUBMARINE TERMINAL CABINET NO. 1SW	SUBMARINE 3-350 KCMIL	CABLE 'F'	-	M-SW-S DRIVE MOTOR
P65B	3″	POWER SUBMARINE TERMINAL CABINET NO. 1SW	DV-SW-S DRIVE 2	3-350 KCMIL	1 #1/0	-	M-SW-S DRIVE MOTOR
P66	3″	DV-SW-S DRIVE 2	M-SW-S DRIVE MOTOR, 75 HP VIA PBOXES 3NW AND 4NW	3-350 KCMIL	1 #1/0	-	M-SW-S DRIVE MOTOR
P66A						-	NOT USED
P67	1″	MCC-EB-1 (EASTBOUND)	POWER SUBMARINE TERMINAL CABINET NO. 1SE	3 #8	1 #8	-	MOB-SW-S
P67A		POWER SUBMARINE TERMINAL CABINET NO. 1SE	POWER SUBMARINE TERMINAL CABINET NO. 1SW	SUBMARINE 3 #8	CABLE 'G'	-	MOB-SW-S
P67B	1″	POWER SUBMARINE TERMINAL CABINET NO. 1SW	MOB-SW-S, 1 HP VIA PBOX NO. 2SW	3 #8	1 #8	-	MOB-SW-S
P68						-	NOT USED
P69	1″	MCC-EB-1 (EASTBOUND)	POWER SUBMARINE TERMINAL CABINET NO. 1SE	3 #8	1 #8	-	MB-SW-S
P69A		POWER SUBMARINE TERMINAL CABINET NO. 1SE	POWER SUBMARINE TERMINAL CABINET NO. 1SW	SUBMARINE 3 #8	CABLE 'G'	-	MB-SW-S
P69B	1″	POWER SUBMARINE TERMINAL CABINET NO. 1SW	MB-SW-S, 1 HP VIA PBOX NO. 2SW	3 #8	1 #8	-	MB-SW-S
P70	1″	MCC-EB-1 (EASTBOUND)	POWER SUBMARINE TERMINAL CABINET NO. 1SE	3 #8	1 #8	-	SUMP PUMP MOTOR (SW)
P70A		POWER SUBMARINE TERMINAL CABINET NO. 1SE	POWER SUBMARINE TERMINAL CABINET NO. 1SW	SUBMARINE 3 #8	CABLE 'G'	-	SUMP PUMP MOTOR (SW)
P70B		POWER SUBMARINE TERMINAL CABINET NO. 1SW	SUMP PUMP CONTROL PANEL(SW) VIA PBOX NOS. 2SW AND 4NW	3 #8	1 #8	-	SUMP PUMP MOTOR (SW)
P70C	1 1/2″	SUMP PUMP CONTROL PANEL	SUMP PUMP MOTOR (SW), 1.5 HP	FURNISHED BY CONTROL PANEL MANUFACTURER		-	SUMP PUMP MOTOR (SW)
P71	1″	MCC-EB-1 (EASTBOUND)	POWER SUBMARINE TERMINAL CABINET NO. 1SE	3 #8	1 #8	-	TG-SW-N
P71A		POWER SUBMARINE TERMINAL CABINET NO. 1SE	POWER SUBMARINE TERMINAL CABINET NO. 1SW	SUBMARINE 3 #8	CABLE 'G'	-	TG-SW-N
P71B	1″	POWER SUBMARINE TERMINAL CABINET NO. 1SW	TG-SW-N, 1/2 HP VIA PBOX NOS. 2SW AND 4NW	3 #8	1 #8	-	TG-SW-N
P72	1″	MCC-EB-1 (EASTBOUND)	POWER SUBMARINE TERMINAL CABINET NO. 1SE	3 #8	1 #8	-	TG-SW-S
P72A		POWER SUBMARINE TERMINAL CABINET NO. 1SE	POWER SUBMARINE TERMINAL CABINET NO. 1SW	SUBMARINE 3 #8	CABLE 'G'	-	TG-SW-S
P72B	1″	POWER SUBMARINE TERMINAL CABINET NO. 1SW	TG-SW-S, 1/2 HP VIA PBOX NO. 2SW	3 #8	1 #8	-	TG-SW-S
P73	1″	MCC-EB-1 (EASTBOUND)	POWER SUBMARINE TERMINAL CABINET NO. 1SE	3 #6	1 #8	-	BG-SW-N/BG-SW-S
P73A		POWER SUBMARINE TERMINAL CABINET NO. 1SE	POWER SUBMARINE TERMINAL CABINET NO. 1SW	SUBMARINE 3 #6	CABLE 'H'	-	BG-SW-N/BG-SW-S
P73B	1″	POWER SUBMARINE TERMINAL CABINET NO. 1SW	VFDS FOR BG-SW-N AND BG-SW-S	3 #6	1 #6	-	BG-SW-N/BG-SW-S
P73C	3/4″	VFD	BG-SW-N, 3 HP VIA PBOX NO. 4NW AND 2SW	5 #10	1 #10	-	BG-SW-N MOTOR AND BRAKE
P74	3/4″	VFD	BG-SW-S, 3 HP VIA PBOX 2SW	5 #10	1 #10	-	BG-SW-S MOTOR AND BRAKE
P74A						-	NOT USED
P75	1″	MCC-EB-1 (EASTBOUND)	POWER SUBMARINE TERMINAL CABINET NO. 1SE	3 #6	1 #6	-	CL-SW-N
P75A		POWER SUBMARINE TERMINAL CABINET NO. 1SE	POWER SUBMARINE TERMINAL CABINET NO. 1SW	SUBMARINE 3 #6	CABLE 'H'	-	CL-SW-N
P75B	1″	POWER SUBMARINE TERMINAL CABINET NO. 1SW	CL-SW-N, 5HP VIA PBOX NOS. 2SW AND 4NW	3 #6	1 #6	-	CL-SW-N
P76	1″	MCC-EB-1 (EASTBOUND)	POWER SUBMARINE TERMINAL CABINET NO. 1SE	3 #6	1 #6	-	CL-SW-S

CONDUIT AND WIRE SCHEDULE

CONDUIT NO.	CONDUIT SIZE	FROM	TO	CONDUCTORS ACTIVE	CONDUCTORS GROUND	CONDUCTORS SPARES	CONDUCTORS SERVICE
P76A		POWER SUBMARINE TERMINAL CABINET NO. 1SE	POWER SUBMARINE TERMINAL CABINET NO. 1SW	SUBMARINE 3 #6	CABLE 'H'	-	CL-SW-S
P76B	1″	POWER SUBMARINE TERMINAL CABINET NO. 1SW	CL-SW-S, 5HP VIA PBOX NOS. 2SW AND 4NW	3 #6	1 #6	-	CL-SW-S
P77		POWER SUBMARINE TERMINAL CABINET NO. 1NE	POWER SUBMARINE TERMINAL CABINET NO. 1NW	SUBMARINE 3 #6	CABLE 'C'	-	SPARE
P78		POWER SUBMARINE TERMINAL CABINET NO. 1SE	POWER SUBMARINE TERMINAL CABINET NO. 1NW	SUBMARINE 3 #6	CABLE 'C'	-	SPARE
P79		POWER SUBMARINE TERMINAL CABINET NO. 1NE	POWER SUBMARINE TERMINAL CABINET NO. 1NW	SUBMARINE 3 #6	CABLE 'C'	-	SPARE
P80		POWER SUBMARINE TERMINAL CABINET NO. 1NE	POWER SUBMARINE TERMINAL CABINET NO. 1NW	SUBMARINE 3 #4/0	CABLE 'D' 1 #2/0	-	SPARE
P81		POWER SUBMARINE TERMINAL CABINET NO. 1SE	POWER SUBMARINE TERMINAL CABINET NO. 1SW	SUBMARINE 3 #6	CABLE 'H'	-	SPARE
P82		POWER SUBMARINE TERMINAL CABINET NO. 1SE	POWER SUBMARINE TERMINAL CABINET NO. 1SW	SUBMARINE 3 #6	CABLE 'H'	-	SPARE
P83		POWER SUBMARINE TERMINAL CABINET NO. 1SE	POWER SUBMARINE TERMINAL CABINET NO. 1NW	SUBMARINE 3 #6	CABLE 'H'	-	SPARE
P84		POWER SUBMARINE TERMINAL CABINET NO. 1SE	POWER SUBMARINE TERMINAL CABINET NO. 1SW	SUBMARINE 3 #4/0	CABLE 'H' 1 #2/0	-	SPARE
P85	1 1/4″	PANEL DP-E2, CKTS 1,2,3,4	P BOX NO. 1SE	6#8	1 #10	-	ECC-1 AND BPLCTTV
P86	1″	P BOX NO. 1SE	BPLCTTV, CKTS 2,4	3#8	1 #10	-	BPLCTTV
P87	1″	P BOX NO. 1SE	ECC-1, CKTS 1,3	4 #6	1 #10	-	ECC-1 UTILITY AND CONTROL POWER
P88	2″	PANEL DP-E2, CKTS 5,7,9,11,13,15	J BOX	2#8 (CKT 11), 2 #4 (CKT 15), 6#6 (CKTS 5,7,9,13)	1 #8	-	DROP 5EB IO/PLC RELAY CABINET, EB GATE LIGHTS DRIVE MOTOR HEATERS, CHANNEL FLOODLIGHT, PIER/NAV. LIGHTS
P89	3/4″	J BOX J	CONDUIT BODY (3/4″) CKT. 13	4 #10	1 #12	-	DRIVE 4 MOTOR HEATER & DRIVE 3 MOTOR HEATER
P90	3/4″	CONDUIT BODY (3/4″)	DV-SE-N DRIVE 3 CKT. 11	2 #10	1 #12	-	DRIVE 3 MOTOR HEATER
P91	3/4″	CONDUIT BODY (3/4″)	DV-SE-S DRIVE 4 CKT. 11	2 #10	1 #12	-	DRIVE 4 MOTOR HEATER
P92	3/4″	DV-SE-S DRIVE 4	M-SE-S DRIVE MOTOR HEATER	2 #10	1 #12	-	DRIVE 4 MOTOR HEATER
P93	1 1/2″	J BOX J (CKTS 5, 79, 13, 15)	SE DROP 5EB IO/PLC & RELAY CABINET	2#4, 6#6	1 #8	-	SE DROP 5EB UTILITY AND CONTROL, EB GATE LIGHTS CHAN. FLOODLIGHT & PIER/NAV. LIGHTS
P94	3/4″	J BOX J10	M-SE-N DRIVE MOTOR HEATER	2 #10	1 #12	-	DRIVE 3 MOTOR HEATER
P95	2″	PANEL DP-W2 CKTS. 1,3,5,7,9,11,13	J BOX JA	2 #8, 4 #6, 4 #6	1 #8	-	DROP 8 SW UTILITY POWER, SW-N/S DRIVE MOTOR HEATERS CONTROL POWER & IO POWER, BG-SWSOC(GFI RECEPTACLE ENCLOSURE HEATER, MOTOR & BRAKE HEATERS)
P96	3/4″	J BOX JA	DV-SW-S, DRIVE 2	2 #8	1 #10	-	CIRCUIT 7 FOR SW-S DRIVE MOTOR HEATER
P97	1 1/2″	J BOX JA	J BOX JB	2 #8, 4 #6, 4 #6	1 #8	-	DROP 8 SW UTILITY POWER, SW-N/S DRIVE MOTOR HEATERS CONTROL POWER & IO POWER, BG-SWSOC(GFI RECEPTACLE ENCLOSURE HEATER, MOTOR & BRAKE HEATERS)
P98	3/4″	J BOX JB	DV-SW-N, DRIVE 1	2 #8	1 #10	-	CIRCUIT 7 FOR SW-N DRIVE MOTOR HEATER
P99	1 1/2″	J BOX JB	J BOX JC	8 #6	1 #8	-	DROP 8SW UTILITY PWR, CONTROL PWR & IO PWR, BG-SWSOC (GFI REC. ENCLOSURE HEATER, MOTOR & BRAKE HEATERS)
P100	1 1/4″	J BOX JC	J BOX JD	4 #6	1 #8	-	BG-SWSOC(GFI REC. ENCLOSURE, HEATER, MOTOR & BRAKE HEATERS)
P101	1 1/4″	J BOX JC	DROP 8 SW IO CABINET	4#6	1 #8	-	DROP 8 SW UTILITY POWER CONTROL & I/O POWER
P102	3/4″	DV-SW-S, DRIVE 2	CONDUIT BODY (3/4″)	2 #10	1 #10	-	SW-S DRIVE MOTOR 2 HEATER
P102A	3/4″	DV-SW-N, DRIVE 1	CONDUIT BODY (3/4″)	2 #10	1 #10	-	SW-N DRIVE MOTOR 1 HEATER
P102B	3/4″	CONDUIT BODY (3/4″)	J BOX JD	2 #10	1 #10	-	SEE P102A, P104
P102C	3/4″	J BOX JD	J BOX JD1	2 #10	1 #10	-	SEE P102A
P102D	1″	PANEL DP-W2, CKTS 15,17,19	J BOX JD1	4 #8	1 #10	-	BG-SWNOC(GFCI REC., ENCLOSURE HTR, MOTOR & BRAKE HTR)
P102E	3/4″	J BOX JD1	SW-N DRIVE MOTOR 1 HEATER	2 #10	1 #12	-	SW-N DRIVE MOTOR 1 HEATER
P102F	1″	J BOX JD1	BG-SWNOC(GFCI REC., ENCLOSURE HTR, MOTOR & BRAKE HTR)	4 #8	1 #10	-	SEE P102D
P103	1 1/4″	J BOX JD	J BOX JE	2 #10, 4 #8	1 #10	-	SAME AS P100 AND P102
P104	3/4″	J BOX JE	SW-S DRIVE 2 MOTOR HEATER	2 #10	1 #12	-	SW-S DRIVE MOTOR 2 HEATER
P105	1″	J BOX JE	BG-SWSOC, SOUTH TOWER	4 #8	1 #10	-	SAME AS P100
P106	1 1/4″	PANEL DP-W3, CKTS 7,9,11,13,15,17,19	J BOX JF1	6#8, 4#6	1 #8	-	BG-NENOC/BG-SESOC (GFCI REC ENCLOSURE, MOTOR AND BRAKES) HEATERS, NE-N DRNE 3 MOTOR AND NE-S DRIVE 4 MOTOR HEATERS
P107	3/4″	J BOX JF1	DV-NE-S DRIVE 4	2 #8	1 #10	-	NE-S DRIVE 4 MOTOR HEATER, CKT 7
P108	3/4″	J BOX JF1	DV-NE-N DRIVE 3	2 #8	1 #10	-	NE-N DRIVE 3 MOTOR HEATER, CKT 7
P109	3/4″	DV-NE-S DRIVE 4	CONDUIT BODY (1″)	2 #8	1 #10	-	NE-S DRIVE 4 MOTOR HEATER, CKT 7
P110	3/4″	DV-NE-N DRIVE 3	CONDUIT BODY (1″)	2 #8	1 #10	-	NE-N DRIVE 3 MOTOR HEATER, CKT 7
P110A	1″	CONDUIT BODY (1″)	J BOX JG1	4 #8	1 #10	-	NE-N DRIVE 3 AND NE-S DRIVE 4 MOTOR HEATERS
P111	1 1/4″	J BOX JF1	J BOX JG1	4#8, 4#6	1 #8	-	BG-NENOC AND BG-NESOC, SEE P106
P112	1 1/2″	J BOX JG1	J BOX JI2	10 #8	1 #8	-	SEE P106
P113	3/4″	J BOX JI2	NE-S DRIVE 4 MOTOR HEATER	2 #10	1 #12	-	SEE P109

PB Americas, Inc.
230 WEST MONROE STREET, SUITE 900
CHICAGO, IL. 60606

USER NAME = sharma	DESIGNED - A. CENTENO	REVISED -	
FILE NAME = D160d61-sht-elc-69.dgn	DRAWN - S. SHARMA	REVISED -	
PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -	
PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONDUIT AND WIRE SCHEDULE
SHEET 2

SCALE: AS SHOWN | SHEET NO. E-69 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	340
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

CONDUIT AND WIRE SCHEDULE

CONDUIT NO.	CONDUIT SIZE	FROM	TO	CONDUCTORS ACTIVE	CONDUCTORS GROUND	CONDUCTORS SPARES	CONDUCTORS SERVICE
P114	1"	JBOX J12, CKTS. 9, 11, 13	BG-NESOC, SOUTH TOWER	4#8	1#10	-	GFCI RECEPTACLE ; ENCLOSURE, MOTOR AND BRAKE HEATERS
P115	1 1/4"	JBOX J12	JBOX J13	2#8, 4#6	1#8	-	NE-N DRIVE 3 MOTOR HEATER, BG-NENOC
P116	3/4"	JBOX J13, CKT. 7	NE-N DRIVE 3 MOTOR HEATER	2#10	1#12	-	NE-N DRIVE 3 MOTOR HEATER
P117	1"	JBOX J13, CKTS. 15, 17, 19	BG-NENOC, NORTH TOWER	4#8	1#10	-	GFCI RECEPTACLE ; ENCLOSURE, MOTOR AND BRAKE HEATERS
P118	3/4"	PANEL DP-W3, CKTS. 2, 4	PBOX 1SE	3#8	1#10	-	WCC-1 UTILITY AND CONTROL POWER
P119	3/4"	PBOX 1SE	WCC-1	3#8	1#10	-	WCC-1 UTILITY AND CONTROL POWER
P119A	1 1/4"	PANEL DP-W3, CKTS. 1, 3, 5	DROP 3 NE IO AND RELAY CABINET	2#6, 3#8	1#8	-	DROP 3 NE UTILITY/IO POWER, NE/NW FLASHER, TRAF. SIGNALS
P120	1 1/4"	PANEL DP-W2, CKTS. 2, 4, 6, 8	DROP 7 NW IO CABINET	2#6, 4#8	1#8	-	DROP 7 NW UTILITY/IO POWER, NW/SW NAV. AND PIER LIGHTS
P121	3/4"	PANEL DP-W2, CKT. 10	JBOX JN1	2#8	1#10	-	NW-N/NW-S DRIVE MOTOR HEATERS
P122	3/4"	JBOX JN1	DV-NW-N DRIVE 1	2#8	1#10	-	NW-N DRIVE 1 MOTOR HEATER
P123	3/4"	JBOX JN1	DV-NW-S DRIVE 2	2#8	1#10	-	NW-S DRIVE 2 MOTOR HEATER
P124	3/4"	DV-NW-N DRIVE 1	JBOX JM1	2#10	1#12	-	NW-N DRIVE 1 MOTOR HEATER
P125	3/4"	DV-NW-S DRIVE 2	JBOX JM1	2#10	1#12	-	NW-S DRIVE 2 MOTOR HEATER
P126	3/4"	JBOX JM1	NW-N DRIVE 1 MOTOR HEATER	2#10	1#12	-	NW-S DRIVE 1 MOTOR HEATER
P127	3/4"	JBOX JM1	NW-S DRIVE 2 MOTOR HEATER	2#10	1#12	-	NW-N DRIVE 2 MOTOR HEATER
C271	1 1/2"	JBOX JH1	JBOX JH2	TSP#14 ; CABLE BY FLUX VECTOR DRIVE MANUFACTURER	1#10	-	ZT-NE, M-NE-N DRIVE 3 MOTOR ENCODER
C272	1 1/4"	JBOX JH1	M-NE-S DRIVE 4 MOTOR ENCODER	CABLE FURNISHED BY FLUX VECTOR DRIVE MANUFACTURER	1#10	-	M-NE-S DRIVE 4 MOTOR ENCODER
C273	1 1/4"	JBOX JH2	M-NE-N DRIVE 3 MOTOR ENCODER	CABLE FURNISHED BY FLUX VECTOR DRIVE MANUFACTURER	1#10	-	M-NE-N DRIVE 3 MOTOR ENCODER
C274	3/4"	JBOX JH2	ZT-NE	TSP#14	1#10	-	ZT-NE
C275	2"	JBOX JB1	JBOX JB2	24#12	1#8	6#12	SEE C276, C285, C285A
C276	1 1/4"	JBOX JB2	CONDUIT BODY (1 1/4")	18#12	1#12	-	SEE C277, C278
C277	3/4"	CONDUIT BODY (1 1/4")	ZS-NEFC	4#12	-	-	ZS-NEFC
C278	1 1/4"	CONDUIT BODY (1 1/4")	CONDUIT BODY (1 1/4")	14#12	-	-	ZS-NENC, ZS-NENO, ZS-NEFO, ZS-NEFO2
C279	3/4"	CONDUIT BODY (1 1/4")	ZS-NEFO2	2#12	-	-	ZS-NEFO2
C280	1 1/4"	CONDUIT BODY (1 1/4")	CONDUIT BODY (1 1/4")	12#12	-	-	ZS-NENC, ZS-NENO, ZS-NEFO,
C281	3/4"	CONDUIT BODY (1 1/4")	ZS-NENO	4#12	-	-	ZS-NENO
C282	1"	CONDUIT BODY (1 1/4")	CONDUIT BODY (1")	8#12	-	-	ZS-NENC, ZS-NEFO
C283	3/4"	CONDUIT BODY (1")	ZS-NENC	4#12	-	-	ZS-NENC
C284	3/4"	CONDUIT BODY (1")	ZS-NEFO	4#12	-	-	ZS-NEFO
C285	3/4"	JBOX JB2	ZS-NEFS	4#12	-	-	ZS-NEFS
C285A	3/4"	JBOX JB2	ZT-NE	2#12	-	-	ZT-NE ENCLOSURE HEATER
C286	1"	SE DROP 5 IO/PLC AND RELAY CABINET	NE DROP 3 IO AND RELAY CABINET	(2) COAX CABLE, RG-6/U, #18AWG	1#8	(1) COAX CABLE, RG-6/U, #18AWG	DROPS SE 5, NE 3 AND NW 7
C287	1"	NE DROP 3 IO AND RELAY CABINET	CONTROL SUBMARINE CABLE TERMINAL CABINET NO. 3NE	(2) COAX CABLE, RG-6/U, #18AWG	1#8	(1) COAX CABLE, RG-6/U, #18AWG	NW DROP 7 IO CABINET
C288	1 1/4"	PBOX 2SE	CONTROL SUBMARINE CABLE TERMINAL CABINET NO. 3NE	TSP#12	1#10	2TSP#12	ZT-NW
C289	1 1/2"	NE DROP 3 IO AND RELAY CABINET	CONTROL SUBMARINE CABLE TERMINAL CABINET NO. 3NE	2#4, 2#10	1#8	2#4, 2#10	TG-NWNOG AND TG-NWSOG FLASHERS, CRENDV1 DRY CONTACT
290	1"	WCC-1 VIA PBOX 2SE	NW DROP 7 IO CABINET	3#8	1#12	-	WB PB-ESTOP, SEE DWG. E-107
C291	3"	MCC-WB-1	CONTROL SUBMARINE CABLE TERMINAL CABINET NO. 3NE	44#10, 4#8	1#8	20#10	SEE DWGS. E-111, E-113, E-114
C292	3/4"	JBOX JU	ZT-SW	2#12	-	-	ZT-SW ENCLOSURE HEATER
C293	1 1/4"	DV-NW-N DRIVE 1	DV-NW-S DRIVE 2	5#12	1#12	10#12	NWFS, NWFC, NWNC, NWNO NWFO
C294		CONTROL SUBMARINE CABLE TERMINAL CABINET NO. 3NE	CONTROL SUBMARINE CABLE TERMINAL CABINET NO. 3NW	SUBMARINE CABLE 'K' (2) COAX CABLE, RG-6/U, #18AWG; TSP#12	1#10	(1) COAX CABLE, RG-6/U, #18AWG; 2#TSP#12	NW DROP 7 IO CABINET ZT-NW
C295		CONTROL SUBMARINE CABLE TERMINAL CABINET NO. 3NE	CONTROL SUBMARINE CABLE TERMINAL CABINET NO. 3NW	SUBMARINE CABLE 'L' 46#10, 7#8, 2#4	1#8	10#10, 6#8, 4#4	SEE C289, C290, C291

CONDUIT AND WIRE SCHEDULE

CONDUIT NO.	CONDUIT SIZE	FROM	TO	CONDUCTORS ACTIVE	CONDUCTORS GROUND	CONDUCTORS SPARES	CONDUCTORS SERVICE
C296	1"	CONTROL SUBMARINE CABLE TERMINAL CABINET NO. 3NW	NW DROP 7 IO CABINET	(2) COAX CABLE, RG-6/U, #18AWG	1#10	(1) COAX CABLE, RG-6/U, #18AWG	NW DROP 7 IO CABINET
C297	1 1/4"	CONTROL SUBMARINE CABLE TERMINAL CABINET NO. 3NW	JBOX JJ1	TSP#12		2TSP#12	ZT-NW
C298	4"	CONTROL SUBMARINE CABLE TERMINAL CABINET NO. 3NW	JBOX JK1	44#10, 7#8, 2#4	1#4	10#10, 6#8, 4#4	SEE C289, C290, C291
C299	1 1/4"	JBOX JJ1	NW DROP 7 IO CABINET	TSP#14, TSP#12	1#10	2TSP#12	
C300	3/4"	JBOX JJ1	ZT-NW	TSP#14	1#12	-	ZT-NW
C301	4"	JBOX JK1	NW DROP 7 IO CABINET	46#10, 7#8	1#8	10#10, 6#8	SEE C289, C290, C291
C302	3/4"	JBOX JK1	JBOX JK2	2#4	1#10	-	TG-NWSOG FLASHER
C303	3 1/2"	NW DROP 7 IO CABINET	JBOX JK2	60#12, 4#8	1#8	24#12	SEE C306, C308, C307A, C314, C321, C373
C304	1 1/2"	DV-NW-N DRIVE 1	CONDUIT BODY (1 1/2")	CABLE FURNISHED BY FLUX VECTOR DRIVE MANUFACTURER	1#10	-	M-NW-N DRIVE 1 MOTOR ENCODER
C304A	1 1/4"	DV-NW-S DRIVE 12	CONDUIT BODY (1 1/2")	CABLE FURNISHED BY FLUX VECTOR DRIVE MANUFACTURER	1#10	-	M-NW-S DRIVE 2 MOTOR ENCODER
C304B	1 1/2"	CONDUIT BODY (1 1/2")	CONDUIT BODY (1 1/2")	CABLE FURNISHED BY FLUX VECTOR DRIVE MANUFACTURER	1#10	-	SEE C304, C304A
C304C	1 1/4"	CONDUIT BODY (1 1/2")	M-NW-S DRIVE 2 MOTOR ENCODER	CABLE FURNISHED BY FLUX VECTOR DRIVE MANUFACTURER	1#10	-	M-NW-S DRIVE 2 MOTOR ENCODER
C304D	1 1/4"	CONDUIT BODY (1 1/2")	M-NW-N DRIVE 1 MOTOR ENCODER	CABLE FURNISHED BY FLUX VECTOR DRIVE MANUFACTURER	1#10	-	M-NW-N DRIVE 1 MOTOR ENCODER
C305	3 1/2"	JBOX JK2	JBOX JK3	60#12, 4#8, 2#4	1#8	24#12	SEE C303, C302
C306	3/4"	JBOX JK3	ZS-NWFS	4 #12	1#12	-	ZS-NWFS
C307	3 1/2"	JBOX JK3	JBOX JK4	56#12, 4#8, 2#4	1#8	24#12	-
C307A	3/4"	JBOX JK4	ZS-NWSOVSP	2#12	1#12	-	ZS-NWSOVSP
C308	1 1/2"	JBOX JK4	JBOX JK4A	18#12	1#12	6#12	-
C309	1 1/4"	JBOX JK4A	CONDUIT BODY (1 1/4")	12#12	1#12	-	ZS-MBNWSS, ZS-MBNWSR, ZS-MBNWSMR
C310	3/4"	CONDUIT BODY (1 1/4")	ZS-MBNWSS	4#12	-	-	ZS-MBNWSS
C311	1"	CONDUIT BODY (1 1/4")	CONDUIT BODY (1")	8 #12	-	-	ZS-MBNWSR, ZS-MBNWSMR
C312	3/4"	CONDUIT BODY (1")	ZS-MBNWSR	4 #12	-	-	ZS-MBNWSR
C313	3/4"	CONDUIT BODY (1")	ZS-MBNWSMR	4 #12	-	-	ZS-MBNWSMR
C314	1"	JBOX JK4	JBOX JK7	4 #8, 2 #12	1 #10	-	PL-W3, PLW4, NL-SW-N, NL-SW-S
C315	1"	JBOX JK4A	CONDUIT BODY (1")	6 #12	1 #12	-	ZS-MOBNWSS, ZS-MOBNWSR, ZS-MOBNWSMR
C316	3/4"	CONDUIT BODY (1")	ZS-MOBNWSMR	2 #12	-	-	ZS-MOBNWSMR
C317	3/4"	CONDUIT BODY (1")	CONDUIT BODY (3/4")	4 #12	-	-	ZS-MOBNWSR, ZS-MOBNWSS
C318	3/4"	CONDUIT BODY (3/4")	ZS-MOBNWSR	2 #12	-	-	ZS-MOBNWSR
C319	3/4"	CONDUIT BODY (3/4")	ZS-MOBNWSS	2 #12	-	-	ZS-MOBNWSS
C320	2"	NW DROP 7 IO CABINET	CONDUIT BODY (2")	6TSP #14	1 #12	4 TSP #14	ANALOG INPUTS FOR MOTOR, VOLTS AMPS AND RPM
C321	1 1/4"	JBOX JK4	JBOX JK8	10 #12, 2 #4	1 #8	-	-
C322	3/4"	JBOX JK8	TG-NWSOG FLASHER	2 #10	-	-	FLASHER
C323	3/4"	JBOX JK8	CONDUIT BODY (3/4")	2 #12	1 #12	-	-
C324	-	CONDUIT BODY (3/4")	DS-BF	2 #12	-	-	DS-BF
C325	-	DS-BF	DS-BR	2 #12	-	-	DS-BR
C326	-	DS-BR	ZS-NWSOGUB	1 #12	-	-	ZS-NWSOGUB
C327	-	DS-BR	ZS-NWSOGDB	1 #12	-	-	ZS-NWSOGDB
C328	-	ZS-NWSOGUB	CONDUIT BODY (3/4")	1 #12	1 #12	-	ZS-NWSOGUB
C329	-	ZS-NWSOGDB	CONDUIT BODY (3/4")	1 #12	-	-	ZS-NWSOGDB
C330	1"	JBOX JK8	CONDUIT BODY (1")	6 #12	1 #12	-	ZS-TGNWSOGUA, ZS-TGNWSOGDA, ZS-TGNWSOGHC
C331	-	CONDUIT BODY (1")	ZS-TGNWSOGUA	2 #12	-	-	ZS-TGNWSOGUA
C332	-	CONDUIT BODY (1")	ZS-TGNWSOGDA	2 #12	-	-	ZS-TGNWSOGDA
C333	-	CONDUIT BODY (1")	ZS-TGNWSOGHC	2 #12	-	-	ZS-TGNWSOGHC
C334	3/4"	JBOX JL1	ZS-NWNOVSP	2 #12	1 #12	-	-
C335	3/4"	JBOX JK1	TG-NWNOG FLASHER	2 #10	-	-	FLASHER
C336	3"	NW DROP 7 IO CABINET	JBOX JL1	50 #12, 2 #8	1 #8	18 #12	-

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL 60606	USER NAME = sharma	DESIGNED - A. CENTENO	REVISED -
	FILE NAME = D162d61-sht-elc-70.dgn	DRAWN - S. SHARMA	REVISED -
	PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONDUIT AND WIRE SCHEDULE
SHEET 3

SCALE: AS SHOWN | SHEET NO. E-70 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	341
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

CONDUIT AND WIRE SCHEDULE

CONDUIT NO.	CONDUIT SIZE	FROM	TO	CONDUCTORS ACTIVE	GROUND	SPARES	SERVICE
C01	1 1/2"	EMERGENCY GENERATOR CONTROL PANEL	AUTO TRANSFER SWITCH, 1600A, 480/277V, 3P, 4W	CONTROL CABLE FURNISHED BY GENERATOR/ATS MANUFACTURER	-	-	-
C02	2"	UTILITY METER	CT AND PT CABINET	CABLE FURNISHED BY COMED	-	-	-
C03	1 1/4"	NE DROP 3 IO & RELAY CABINET	P BOX NO. 1SE	4 #12	1#12	6 #12	WBL RGNL, WBLRGNU & WTRYR RELAYS, LINE EBN
C04	2"	SE DROP 5 IO/PLC & RELAY CABINET	P BOX NO. 1SE	22 #12	1#12	16 #12	EBLRGNL, EBLRGNU & ETRYR RELAYS AIR HORN PUSHBUTTON CHAN. FLOODLIGHT, NL-NE, NL-SE
C05	1 1/4"	P BOX NO. 1SE	ECC-1	3 #8, 2 #12	1#12	8 #12	NEUTRAL WIRE FOR WBLRGNL, WBLRGNU & WTRYR RELAYS
C06	1 1/2"	P BOX NO. 1SE	WCC-1	12 #12	1#12	8 #12	WBLRGNL, WBLRGNU, WTRYR, EBLRGNL, EBLRGNU, ETRYR, CS-TG-SW, CS-BG-SW, CS-TG-SE
C07	1"	SE DROP 5 IO/PLC & RELAY CABINET	P BOX NO. 2SE	TSP #14	1#12	2 TSP #14	SE LEAF POSITION TRANSMITTER ZT-SE
C08	1 1/2"	P BOX NO. 2SE	ECC-1	TSP #14, TSP #12	1#12	2 TSP#14, 2 TSP#12	SE/SW LEAF POSITION TRANSMITTERS
C09	2"	ECC-1	WCC-1	8 #12	1#12	20 #12	CRWBCP, CS-TG-SW, PB-ESTOPS, CS-TG-SE, CS-BG-SW, CB801
C10	1 1/4"	PBOX NO. 1SE	BLCCTV CABINET	8 #12	1#12	4 #12	NL-NE, NL-SE, CHANNEL FLOODLIGHT
C11	2 1/2"	SE DROP 5 IO/PLC & RELAY CABINET	MCC-EB-1 (EASTBOUND)	34 #12	1#12	20 #12	SEE DWGS. E-91, E-94
C12	2"	SE DROP 5 IO/PLC & RELAY CABINET	DV-SE-N, DRIVE 3	16 #12	1#12	12 #12	SEE DWGS E-83, E-84, E-95
C13	1 1/4"	SE DROP 5 IO/PLC & RELAY CABINET	DV-SE-N, DRIVE 3	3 TSP #14	1#12	2 TSP #14	SEN MOTOR VOLT, AMPS AND RPM
C14	1 1/4"	DV-SE-N, DRIVE 3	DV-SE-S, DRIVE 4	5 #12	1#12	10 #12	SEFS. SEFC, SENC, SENO, SEFO
C15	2"	SE DROP 5 IO/PLC & RELAY CABINET	DV-SE-S, DRIVE 4	16 #12	1#12	12 #12	SEE DWGS E-83, E-84, E-96
C16	1 1/4"	SE DROP 5 IO/PLC & RELAY CABINET	DV-SE-S, DRIVE 4	3 TSP #14	1#10	2 TSP #14	SES MOTOR VOLTS, AMPS AND RPM
C17	1 1/4"	DV-SE-N, DRIVE 3	SE-N, DRIVE 3 MOTOR ENCODER	CABLE FURNISHED BY FLUX VECTOR DRIVE MANUFACTURER	1#10	-	SIGNAL SHIELD CONNECTION
C18	1 1/4"	DV-SE-S, DRIVE 4	SE-S, DRIVE 4 MOTOR ENCODER	CABLE FURNISHED BY FLUX VECTOR DRIVE MANUFACTURER	1#10	-	SIGNAL SHIELD CONNECTION
C19	3"	SE DROP 5 IO/PLC & RELAY CABINET	JBOX NO.1	2 #8, 2 #10 52 #12	1#10	16 #12	SEE C20, C21
C20	3/4"	JBOX J1	ZS-SESOVSP	2 #12	1#12	-	ZS-SESOVSP
C21	3"	JBOX J1	JBOX J2	2 #8, 2 #10 50 #12	1#10	16 #12	SEE C22, C28
C22	1 1/2"	JBOX J2	JBOX J8	18 #12	1#12	4 #12	SEE C23, C23A
C23	1"	JBOX J8	CONDUIT BODY (1")	6 #12	1#12	-	SEE C24, C25
C23A	1 1/4"	JBOX J8	CONDUIT BODY (1 1/4")	12 #12	1#12	-	SEE C24A, C25A
C24	3/4"	CONDUIT BODY (1")	ZS-MOBSESS	2 #12		-	ZS-MOBSESS
C24A	3/4"	CONDUIT BODY (1 1/4")	ZS-MBSESS	4 #12		-	ZS-MBSESS
C25	1"	CONDUIT BODY (1")	CONDUIT BODY (1")	4 #12		-	ZS-MOBSESR, ZS-MOBSESMR
C25A	1"	CONDUIT BODY (1 1/4")	CONDUIT BODY (1")	8 #12		-	ZS-MBSESR, ZS-MBSESMR
C26	3/4"	CONDUIT BODY (1")	ZS-MOBSESR	2 #12		-	ZS-MOBSESR
C26A	3/4"	CONDUIT BODY (1")	ZS-MBSESR	4 #12		-	ZS-MBSESR
C27	3/4"	CONDUIT BODY (1")	ZS-MOBSESMR	2 #12		-	ZS-MOBSESMR
C27A	3/4"	CONDUIT BODY (1")	ZS-MBSESMR	4 #12		-	ZS-MBSESMR
C28	3"	JBOX J2	JBOX J3	2 #8, 2 #10 32 #12	1#10	12 #12	SEE C29, C42
C29	1 1/2"	JBOX J3	JBOX J7	12 #12, 2 #10	1#12	4 #12	SEE C30, C41, C34
C30	1"	JBOX J7	CONDUIT BODY (1")	8 #12	1#12	-	SEE C31, C32, C33
C31	-	CONDUIT BODY (1")	ZS-TGSESOGUA	2 #12		-	ZS-TGSESOGUA
C32	-	CONDUIT BODY (1")	ZS-TGSESOGDA	4 #12		-	ZS-TGSESOGDA
C33	-	CONDUIT BODY (1")	ZS-TGSESOGHC	2 #12		-	ZS-TGSESOGHC
C34	1"	JBOX J7	CONDUIT BODY (1")	4 #12	1#12	-	DS-BF, ZS-TGSESOGUB, ZS-TGSESOGDB
C35	-	CONDUIT BODY (1")	DS-BF	2 #12		-	DS-BF
C36	-	DS-BF	DS-BR	2 #12	-	-	DS-BR
C37	-	DS-BR	ZS-TGSESOGUB	1 #12	-	-	ZS-TGSESOGUB
C38	-	DS-BR	ZS-TGSESOGDB	1 #12	-	-	ZS-TGSESOGDB
C39	-	CONDUIT BODY (1")	ZS-TGSESOGUB	1 #12	-	-	ZS-TGSESOGUB
C40	-	CONDUIT BODY (1")	ZS-TGSESOGDB	1 #12	-	-	ZS-TGSESOGDB
C41	3/4"	JBOX J7	TG-SESOG FLASHER	2 #10	1#12	-	TG-SESOG FLASHER

CONDUIT AND WIRE SCHEDULE

CONDUIT NO.	CONDUIT SIZE	FROM	TO	CONDUCTORS ACTIVE	GROUND	SPARES	SERVICE
C42	2"	JBOX J3	JBOX J4	2 #8, 20 #12	1#10	8 #12	SEE C43, C44, C47
C43	3/4"	JBOX J4	ZT-SE ENCLOSURE HEATER	2 #12	1#12	-	ZT-SE ENCLOSURE HEATER
C44	1"	JBOX J4	CONDUIT BODY (1")	6 #12	1#12	4 #12	ZS-SEFC, ZS-SEFO2
C45	3/4"	CONDUIT BODY (1")	ZS-SEFC	4 #12	-	-	ZS-SEFC
C46	3/4"	CONDUIT BODY (1")	ZS-SEFO2	2 #12	-	-	ZS-SEFO2
C47	1 1/2"	JBOX J4	JBOX J5	2 #8, 12 #12	1#10	4 #12	C48, C51, C52
C48	1"	JBOX J5	CONDUIT BODY (1")	8 #12	1#12	-	ZS-SENC, ZS-SENO
C49	3/4"	CONDUIT BODY (1")	ZS-SENC	4 #12	-	-	ZS-SENC
C50	3/4"	CONDUIT BODY (1")	ZS-SENO	4 #12	-	-	ZS-SENO
C51	3/4"	JBOX J5	ZS-SEFO	4 #12	1#12	-	ZS-SEFO
C52	3/4"	JBOX J5	JBOX J6	2 #8	1#10	-	PIER LIGHTS PL-E3 & PL-E4
C53	3/4"	JBOX J6	PIER LIGHT PL-E4	2 #10	1#12	-	PIER LIGHT PL-E4
C54	3/4"	JBOX J6	PIER LIGHT PL-E3	2 #10	1#12	-	PIER LIGHT PL-E3
C55	3/4"	SE DROP 5 IO/PLC & RELAY CABINET	ZT-SE	TSP #14	1#12	-	ZT-SE
C56	3"	SE DROP 5 IO/PLC & RELAY CABINET	JBOX J9	4 #8, 2 #10 38 #12	1#10	12#12	SEE C58, C57
C57	3/4"	JBOX J9	ZS-SEFS	4 #12	1#12	-	ZS-SEFS
C58	3"	JBOX J9	JBOX J10	4 #8, 2 #10 34 #12	1#10	12 #12	SEE C60, P94
C59	3/4"	JBOX J10	ZS-SENOVSP	2 #12	1#12	-	ZS-SENOVSP
C60	2 1/2"	JBOX J10	JBOX J11	4 #8, 2 #10 30 #12	1#10	12 #12	SEE C61, C72, C85
C61	1 1/2"	JBOX J11	JBOX J13	18 #12	1#12	4 #12	SEE C62, C67
C62	1"	JBOX J13	CONDUIT BODY (1")	6 #12	1#12	-	SEE C63, C64
C63	3/4"	CONDUIT BODY (1")	ZS-MOBSENS	2 #12	-	-	ZS-MOBSENS
C64	3/4"	CONDUIT BODY (1")	CONDUIT BODY (1")	4 #12	-	-	ZS-MOBSENR, ZS-MOBSENMR
C65	3/4"	CONDUIT BODY (1")	ZS-MOBSENR	2 #12	-	-	ZS-MOBSENR
C66	3/4"	CONDUIT BODY (1")	ZS-MOBSENMR	2 #12	-	-	ZS-MOBSENMR
C67	1 1/4"	JBOX J13	CONDUIT BODY (1 1/4")	12 #12	1#12	-	SEE C68, C69
C68	3/4"	CONDUIT BODY (1 1/4")	ZS-MBSENS	4 #12	-	-	ZS-MBSENS
C69	1"	CONDUIT BODY (1 1/4")	CONDUIT BODY (1")	8 #12	-	-	ZS-MBSENR, ZS-MBSENMR
C70	3/4"	CONDUIT BODY (1")	ZS-MBSENR	4 #12	-	-	ZS-MBSENR
C71	3/4"	CONDUIT BODY (1")	ZS-MBSENMR	4 #12	-	-	ZS-MBSENMR
C72	1 1/2"	JBOX J11	JBOX J14	2 #10, 12 #12	1#12	4 #12	SEE C73, C78
C73	1"	JBOX J14	CONDUIT BODY (1")	8 #12	1#12	-	SEE C74, C75, C76
C74	3/4"	CONDUIT BODY (1")	ZS-TGSENOGUA	2 #12	-	-	ZS-TGSENOGUA
C75	-	CONDUIT BODY (1")	ZS-TGSENOGDA	4 #12	-	-	ZS-TGSENOGDA
C76	-	CONDUIT BODY (1")	ZS-TGSENOGHC	2 #12	-	-	ZS-TGSENOGHC
C77	3/4"	JBOX J14	TG-SENOG FLASHER	2 #10	1#12	-	TG-SENOG FLASHER
C78	1"	JBOX J14	CONDUIT BODY (1")	4 #12	1#12	-	DS-BF, ZS-TGSENOGUB, ZS-TGSENOGDB
C79	-	CONDUIT BODY (1")	DS-BF	2 #12	-	-	DS-BF
C80	-	DS-BF	DS-BR	2 #12	-	-	DS-BR
C81	-	DS-BR	ZS-TGSENOGUB	1 #12	-	-	ZS-TGSENOGUB
C82	-	DS-BR	ZS-TGSENOGDB	1 #12	-	-	ZS-TGSENOGDB
C83	-	ZS-TGSENOGUB	CONDUIT BODY (1")	1 #12	-	-	ZS-TGSENOGUB
C84	-	ZS-TGSENOGDB	CONDUIT BODY (1")	1 #12	-	-	ZS-TGSENOGDB
C85	1"	JBOX J11	JBOX J12	4 #8	1#10	-	PL-E1, PL-E2, NL-NE-N, NL-NE-S, NL-SE-N, NL-SE-S
C86	3/4"	JBOX J12	PL-E2	2 #10	1#12	-	PL-E2
C87	3/4"	JBOX J12	PL-E1	2 #10	1#12	-	PL-E1

PB Americas, Inc.
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USER NAME = sharma	DESIGNED - A. CENTENO	REVISED -	
FILE NAME = D160d61-sht-elc-71.dgn	DRAWN - S. SHARMA	REVISED -	
PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -	
PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONDUIT AND WIRE SCHEDULE
SHEET 4

SCALE: AS SHOWN | SHEET NO. E-71 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	342
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

CONDUIT AND WIRE SCHEDULE

CONDUIT NO.	CONDUIT SIZE	FROM	TO	CONDUCTORS ACTIVE	CONDUCTORS GROUND	CONDUCTORS SPARES	REMARKS
C88	3/4″	JBOX J12	JBOX J16	3 #8	1#10	-	NL-NE-S, NL-NE-N
C89	3/4″	JBOX J16	NL-NE-S	2 #10	1#12	-	NL-NE-S
C90	3/4″	JBOX J16	NL-NE-N	2 #10	1#12	-	NL-NE-N
C91	3/4″	JBOX J12	JBOX J15	3 #8	1#10	-	NL-SE-N, NL-SE-S
C92	3/4″	JBOX J12	NL-SE-N	2 #10	1#12	-	NL-SE-N
C93	3/4″	JBOX J12	NL-SE-S	2 #10	1#12	-	NL-SE-S
C94	1 1/4″	P BOX NO. 2SE	CONTROL SUBMARINE CABLE TERMINAL CABINET NO. 2SE	TSP #12	1#10	2 TSP #12	ZT-SW
C95	1″	P BOX NO. 2SE	CONTROL SUBMARINE CABLE TERMINAL CABINET NO. 2SE	(2) COAX CABLE, TYPE RG-6/U, #18 AWG	1 #8	(1) COAX CABLE, TYPE RG-6/U, #18 AWG	SW DROP 8 IO CABINET
C96	2″	SE DROP 5 IO/PLC & RELAY CABINET	CONTROL SUBMARINE CABLE TERMINAL CABINET NO. 2SE	8 #4, 4 #10	1 #8	6 #10	SEE C106, ZS-TGSWNOCDA AND ZS-TGSWSOCDA
C97	1 1/4″	P BOX NO. 1SE	CONTROL SUBMARINE CABLE TERMINAL CABINET NO. 2SE	3 #8	1 #10	10 #10	EB CONTROL POWER WEST PIER
C98	3″	MCC-EB-1	CONTROL SUBMARINE CABLE TERMINAL CABINET NO. 2SE	44 #10, 4 #8	1 #10	10 #10	SEE DWGS E-91, E-93, E-94
C99	3″	CONTROL SUBMARINE CABLE TERMINAL CABINET NO. 2SE	CONTROL SUBMARINE CABLE TERMINAL CABINET NO. 3SW	SUBMARINE CABLE 'I' 8 #4, 44 #10, 7 #8	1 #4	10 #10, 6 #8 4 #4	SEE C96, C97, C98
C100	-	CONTROL SUBMARINE CABLE TERMINAL CABINET NO. 2SE	CONTROL SUBMARINE CABLE TERMINAL CABINET NO. 3SW	SUBMARINE CABLE 'J' (2) COAX CABLE RG-6/U #18 AWG ; TSP#12	1 #10	24 TSP #12, (1) COAX CABLE RG-6/U, #18 AWG	SW DROP 8 IO CABINET, ZT-SW
C101	3/4″	JBOX J6	JBOX J6A	2#10	1#12	-	DL-E1
C101A	3/4″	JBOX J6A	DL-E1	SUBMARINE CABLE 2#10 & 1#12G		-	DL-E1
C102	1 1/2″	BPLCCTV	ECC-1	(2) COAX CABLE, TYPE RG-6/U, #18 AWG	1 #8	(2) COAX CABLE, TYPE RG-6/U, #18 AWG	BPLCCTV, ECC-1
C103	1 1/2″	ECC-1	WCC-1	(2) COAX CABLE, TYPE RG-6/U, #18 AWG	1 #8	(2) COAX CABLE, TYPE RG-6/U, #18 AWG	WCC-1
C104	1 1/2″	ECC-1	PULL BOX 2SE	(2) COAX CABLE, TYPE RG-6/U, #18 AWG	1 #8	(2) COAX CABLE, TYPE RG-6/U, #18 AWG	DROPS 3,5,7 & 8 CABINETS
C105	4″	CONTROL SUBMARINE CABLE TERMINAL CABINET NO. 3SW	JBOX JF	44 #10, 7 #8, 8 #4	1 #8	10 #10, 6 #8	SEE C96, C97, C98
C106	2″	JBOX JF	JBOX JG	7 #4	1 #8	3 #10, 3 #8	TG-SWSOC/BG-SWOC GATE LIGHTS EB-GONG, ZS-TGSWSOC, TRAF. SIGNALS
C107	1″	JBOX JG	BG-VFDS	2 #8	1#10	2 #8	BG-SWOC FLASHER
C108	2″	BG-VFD	BG-SWSOC, SOUTH TOWER	23 #12	1 #10	10 #12	SEE DWGS. E-43, E-92 & E-119
C109	2″	JBOX JG	JBOX JH	7 #4	1 #8	3 #10, 3 #8	TG-SWSOC GATE LIGHTS GONG, TRAFFIC SIGNALS
C110	1 1/4″	JBOX JH	CONDUIT BODY (1″)	5 #12	1 #10	4 #12	TG-SWSOC GATE LIGHTS, ZS-TGSWSOC
C111	-	CONDUIT BODY (1″)	ZS-TGSWSOC	3 #12	-	-	ZS-TGSWSOC
C112	-	CONDUIT BODY (1″)	TG-SWSOC GATE LIGHTS	2 #12	-	-	TG-SWSOC GATE LIGHTS
C113	1 1/4″	JBOX JH	TRAFFIC SIGNAL POLE HANDHOLE	2 #12, 4 #8	1 #8	4 #10	GONG TRAFFIC SIGNALS, TL-EBA, TL-EBB
C114	-	TRAFFIC SIGNAL POLE HANDHOLE	EB-GONG	2 #12	-	-	EB GONG
C115	-	TRAFFIC SIGNAL POLE HANDHOLE	TRAFFIC SIGNAL TL-EBA	4 #10	-	-	TL-EBA
C116	-	TRAFFIC SIGNAL POLE HANDHOLE	TRAFFIC SIGNAL TL-EBB	4 #10	-	-	TL-EBB
C117	4″	JBOX JF	JBOX JI	7 #8, 44 #10 4 #4	1 #8	10 #10, 6 #8	SEE C98, TG-SWNOC GATE LIGHTS, NORTH AND SOUTH ADVANCED WARNING SIGNS
C118	1 1/4″	JBOX JI	JBOX JX	2 #4	1 #8	-	NORTH AND SOUTH ADVANCED WARNING SIGNS
C118A	3/4″	JBOX JI	BG-SWNOC GATE LIGHTS	2 #8	1 #10	-	BG-SWNOC GATE LIGHTS (FLASHER)
C119	1 1/4″	JBOX JY	TEMPORARY SPLICE/ PULL BOX	2 #6	1 #10	-	NORTH AND SOUTH ADVANCED WARNING SIGNS
C120							NOT USED
C121	4″	JBOX JI	DROP 8 SW IO CABINET	44 #10, 7 #8	1 #8	10 #10, 6 #8	SEE C98, C97
C122	1″	CONTROL SUBMARINE CABLE TERMINAL CABINET NO. 3SW	DROP 8 SW IO CABINET	(2) COAX CABLE, TYPE RG-6/U, #18 AWG	1 #8	(1) COAX CABLE, TYPE RG-6/U, #18 AWG	SW DROP 8 IO CABINET
C123	1 1/4″	CONTROL SUBMARINE CABLE TERMINAL CABINET NO. 3SW	JBOX JJ	TSP #12	1 #10	2 TSP #12	ZT-SW
C124	1 1/4″	JBOX JJ	SW-S DRIVE MOTOR ENCODER	CABLE FURNISHED BY FLUX VECTOR DRIVE MANUFACTURER	1 #10	-	SW-S DRIVE MOTOR ENCODER
C125	1 1/2″	JBOX JJ	JBOX JQ	TSP #12 AND FLUX VECTOR DRIVE CABLE	1 #10	2 TSP #12	ZT-SW, SW-S DRIVE MOTOR ENCODER
C126	1 1/4″	JBOX JQ	DROP 8 SW I/O CABINET	2 TSP #12	1 #10	2 TSP #12	ZT-SW
C127	1 1/4″	JBOX JN	DV-SW-S DRIVE MOTOR 2	CABLE FURNISHED BY FLUX VECTOR DRIVE MANUFACTURER	1 #10	-	SW-S DRIVE MOTOR ENCODER
C127A	1 1/4″	JBOX JN	JBOX JQ	CABLE FURNISHED BY FLUX VECTOR DRIVE MANUFACTURER	1 #10	-	SW-S DRIVE MOTOR ENCODER
C128	3″	DROP 8 SW IO CABINET	JBOX JK	43 #12	1 #12	12 #12	SEE DWG. E-119
C129	1 1/2″	JBOX JK	JBOX J4	20 #12	1 #12	4 #12	SEE DWG. E-119
C129A	1 1/2″	JBOX JL	JBOX JM	18 #12	1 #12	4 #12	SEE DWG. E-119
C130	1 1/4″	JBOX JM	CONDUIT BODY (1 1/4″)	12 #12	1 #12	-	SEE C131, C132
C131	3/4″	CONDUIT BODY (1 1/4″)	ZS-MBSWSR	4 #12	1 #12	-	ZS-MBSWS

CONDUIT AND WIRE SCHEDULE

CONDUIT NO.	CONDUIT SIZE	FROM	TO	CONDUCTORS ACTIVE	CONDUCTORS GROUND	CONDUCTORS SPARES	REMARKS
C132	1 1/4″	CONDUIT BODY (1 1/4″)	CONDUIT BODY (1 1/4″)	8 #12	1 #12	-	ZS-MBSWR, ZS-MBSWMR
C133	3/4″	CONDUIT BODY (1″)	ZS-MBSWR	4 #12	-	-	ZS-MBSWR
C134	3/4″	CONDUIT BODY (1″)	ZS-MBSWMR	4 #12	-	-	ZS-MBSWMR
C135	1″	JBOX JM	CONDUIT BODY (1″)	6 #12	1 #12	-	SEE C136, C137
C136	3/4″	CONDUIT BODY (1″)	ZS-MOBSWS	2 #12	-	-	ZS-MOBSWS
C137	1″	CONDUIT BODY (1″)	CONDUIT BODY (1″)	4 #12	-	-	ZS-MOBSWR, ZS-MOBSWMR
C138	3/4″	CONDUIT BODY (1″)	ZS-MOBSWR	2 #12	-	-	ZS-MOBSWR
C139	3/4″	CONDUIT BODY (1″)	ZS-MOBSWMR	2 #12	-	-	ZS-MOBSWMR
C140	3/4″	JBOX JL	ZS-SWSOVSP	2 #12	1 #12	-	ZS-SWSOVSP
C141	2″	JBOX JK	JBOX JO	23 #12	1 #12	8 #12	SEE DWG. E-119
C141A	1 1/4″	JBOX JO	BG-VFDS PANEL	11 #12	1 #12	4 #12	SEE DWGS E-92 AND E-119
C142	1 1/4″	JBOX JO	JBOX JP	12 #12	1 #12	4 #12	SEE C143
C143	1″	JBOX JP	CONDUIT BODY (1″)	8 #12	1 #12	-	SEE C144, C145, C146
C144	-	CONDUIT BODY (1″)	ZS-TGSWSOCUA	2 #12	-	-	ZS-TGSWSOCUA
C145	-	CONDUIT BODY (1″)	ZS-TGSWSOCDA	4 #12	-	-	ZS-TGSWSOCDA
C146	-	CONDUIT BODY (1″)	ZS-TGSWSOCHC	2 #12	-	-	ZS-TGSWSOCHC
C147	1″	JBOX JP	CONDUIT BODY (1″)	4 #12	1 #12	-	SEE C148, C149, C150, C151
C148	-	CONDUIT BODY (1″)	DS-BF	2 #12	-	12 #12	DS-BF
C149	-	DS-BF	DS-BR	2 #12	-	-	DS-BR
C150	-	DS-BR	ZS-SWSOCUB	1 #12	-	12 #12	ZS-SWSOCUB
C151	-	DS-BR	ZS-SWSOCDB	1 #12	-	4 #12	ZS-SWSOCDB
C152	-	ZS-SWSOCUB	CONDUIT BODY (1″)	1 #12	-	-	ZS-SWSOCUB
C153	-	ZS-SWSOCDB	CONDUIT BODY (1″)	1 #12	-	-	ZS-SWSOCDB
C154	3″	DROP 8 SW IO CABINET	JBOX JR	58 #12	1 #12	12 #12	SEE DWG. E-119
C155	1″	JBOX JR	CONDUIT BODY (1″)	8 #12	1 #12	-	SEE C156, C157, C158
C156	-	CONDUIT BODY (1″)	ZS-TGSWNOCUA	2 #12	-	-	ZS-TGSWNOCUA
C157	-	CONDUIT BODY (1″)	ZS-TGSWNOCDA	4 #12	-	-	ZS-TGSWNOCDA
C158	-	CONDUIT BODY (1 1/4″)	ZS-TGSWNOCHC	2 #12	-	-	ZS-TGSWNOCHC
C159	1″	JBOX JR	CONDUIT BODY	4 #12	1 #12	-	SEE DWG E-119
C160	-	CONDUIT BODY (1″)	DS-BF	2 #12	-	-	DS-BF
C161	-	DS-BF	DS-BR	2 #12	-	-	DS-BR
C162	-	DS-BR	ZS-SWNOCUB	1 #12	-	-	ZS-SWNOCUB
C163	-	DS-BR	ZS-SWNOCDB	1 #12	-	-	ZS-SWNOCDB
C164	-	ZS-SWNOCUB	CONDUIT BODY (1″)	1 #12	-	-	ZS-SWNOCUB
C165	-	ZS-SWNOCDB	CONDUIT BODY (1″)	1 #12	-	-	ZS-SWNOCDB
C166	2 1/2″	JBOX JR	JBOX JS	46 #12	1 #12	8 #12	SEE DWG. E-119
C167	3/4″	JBOX JS	ZS-SWFS	4 #12	1 #12	-	ZS-SWFS
C168	1 1/2″	JBOX JS	JBOX JT	20 #12	1 #12	4 #12	SEE C169, C170, C175
C169	3/4″	JBOX JT	ZS-SWNOVSP	2 #12	1 #12	-	ZS-SWNOVSP
C170	1″	JBOX JT	CONDUIT BODY (1″)	6 #12	1 #12	-	SEE C171, C172
C171	3/4″	CONDUIT BODY (1″)	ZS-MOBSWNS	2 #12	-	-	ZS-MOBSWNS
C172	1″	CONDUIT BODY (1″)	CONDUIT BODY (1″)	4 #12	-	-	ZS-MOBSWNR, ZS-MOBSWNMR
C173	3/4″	CONDUIT BODY (1″)	ZS-MOBSWNR	2 #12	-	-	ZS-MOBSWNR
C174	3/4″	CONDUIT BODY (1″)	ZS-MOBSWNMR	2 #12	-	-	ZS-MOBSWNMR
C175	1 1/4″	JBOX JT	CONDUIT BODY (1 1/4″)	12 #12	1 #12	-	SEE C176, C177
C176	3/4″	CONDUIT BODY (1 1/4″)	ZS-MBSWNS	4 #12	-	-	ZS-MBSWNS
C177	1 1/4″	CONDUIT BODY (1 1/4″)	CONDUIT BODY (1″)	8 #12	-	-	ZS-MBSWNR, ZS-MBSWNMR

PB Americas, Inc.
230 WEST MONROE STREET,
SUITE 900
CHICAGO, IL. 60606

USER NAME = sharma	DESIGNED - A. CENTENO	REVISED -	
FILE NAME = D162d61-sht-elc-72.dgn	DRAWN - S. SHARMA	REVISED -	
PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -	
PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONDUIT AND WIRE SCHEDULE
SHEET 5

SCALE: AS SHOWN | SHEET NO. E-72 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	343
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

CONDUIT AND WIRE SCHEDULE

CONDUIT NO.	SIZE	FROM	TO	CONDUCTORS ACTIVE	GROUND	SPARES	REMARKS
C178	3/4"	CONDUIT BODY (1")	ZS-MBSWNR	4 #12	-	-	ZS-MBSWNR
C179	3/4"	CONDUIT BODY (1")	ZS-MBSWNMR	4 #12	-	-	ZS-MBSWNMR
C180	1 1/2"	JBOX JS	JBOX JU	20 #12	1 #12	4 #12	SEE C181, C182, C185, C187, C292
C181	3/4"	JBOX JU	ZS-SWFO	4 #12	-	-	ZS-SWFO
C182	1"	JBOX JU	CONDUIT BODY (1")	8 #12	-	-	ZS-SWNC, ZS-SWNO
C183	3/4"	CONDUIT BODY (1")	ZS-SWNC	4 #12	-	-	ZS-SWNC
C184	3/4"	CONDUIT BODY (1")	ZS-SWNO	4 #12	-	-	ZS-SWNO
C185	1"	JBOX JU	CONDUIT BODY (1")	6 #12	1 #12		ZS-SWFC, ZS-SWFO2
C186	3/4"	CONDUIT BODY (1")	ZS-SWFC	4 #12	-	-	ZS-SWFC
C187	3/4"	CONDUIT BODY (1")	ZS-SWFO2	2 #12	-	-	ZS-SWFO2
C188	3/4"	JBOX JQ	ZT-SW	TSP #14	1 #12	-	ZT-SW
C189	1 1/4"	DROP 8 SW IO CABINET	DV-SW-N DRIVE 1	3 TSP #14	1 #12	2 TSP #14	ANALOG INPUTS FOR MOTOR VOLTS, AMPS AND RPM
C190	2"	DROP 8 SW IO CABINET	DV-SW-N DRIVE 1	16 #12	1 #12	2 #12	SEE DWGS. E-87, E-97, E-119
C191	1 1/4"	DROP 8 SW IO CABINET	DV-SW-S DRIVE 2	3 TSP #14	1 #12	2 TSP #14	ANALOG INPUTS FOR MOTOR VOLTS, AMPS AND RPM
C192	2"	DROP 8 SW IO CABINET	DV-SW-S DRIVE 2	16 #12	1 #8	12 #12	SEE DWGS. E-87, E-98, E-119
C193	1 1/4"	DV-SW-N DRIVE 1	DV-SW-S DRIVE 2	5 #12	1 #12	10 #12	SW LEAF FULL SEATED, FULL CLOSED, NEAR CLOSED, NEAR OPEN, FULL OPEN
C194	1 1/4"	DV-SW-N DRIVE 1	JBOX JN	CABLE FURNISHED BY FLUX VECTOR DRIVE MANUFACTURER	1 #10	-	SW-N DRIVE MOTOR ENCODER
C195	1 1/4"	JBOX JN	SW-N DRIVE MOTOR ENCODER	CABLE FURNISHED BY FLUX VECTOR DRIVE MANUFACTURER	1 #10	-	SW-N DRIVE MOTOR ENCODER
C196	2 1/2"	NE DROP 3 IO & RELAY CABINET	MCC-WB-1	34#12	1#12	20#12	SEE DWGS E-111 AND E-114
C197	3"	NE DROP 3 IO & RELAY CABINET	CONDUIT BODY (3")	32#12	1#12	24#12	SEE DWGS E-104, E-105, E-115, E-116
C198	2"	NE DROP 3 IO & RELAY CABINET	CONDUIT BODY (2")	6TSP#14	1#12	4TSP#14	ANALOG INPUTS FOR MOTOR VOLTS, AMPS AND RPM
C199	1 1/4"	CONDUIT BODY (2")	DV-NE-S DRIVE 4	3TSP#14	1#12	2TSP#14	ANALOG INPUTS FOR MOTOR VOLTS, AMPS AND RPM
C200	2"	CONDUIT BODY (3")	DV-NE-S DRIVE 4	16#12	1#12	12#12	SEE DWGS E-104, E-105, E-116
C201	1 1/4"	CONDUIT BODY (2")	DV-NE-N DRIVE 3	3TSP#14	1#12	2TSP#14	ANALOG INPUTS FOR MOTOR VOLTS, AMPS AND RPM
C202	2"	CONDUIT BODY (3")	DV-NE-N DRIVE 3	16#12	1#12	12#12	SEE DWGS E-104, E-105, E-115
C203	1 1/4"	DV-NE-N DRIVE 3	DV-NE-S DRIVE 4	5#12	1#12	10#12	ZS-NEFC, ZS-NENC, ZS-NENO, ZS-NEFS, ZS-NEFO
C204	1 1/2"	WCC-1	PBOX 2SE	TSP#14 TSP#12	1#10	2TSP#14 2TSP#12	LEAF POSITION TRANSMITTERS ZT-NE AND ZT-NW
C204A	1"	PBOX 2SE	NE DROP 3 IO & RELAY CABINET	TSP#14	1#10	2TSP#14	ZT-NE
C204B	1"	PBOX 2SE	SE DROP 5 IO/PLC & RELAY CABINET	(2) COAX CABLE TYPE RG-6/4 #18AWG	1#10	(2) COAX CABLE TYPE RG-6/4 #18AWG	DROP 3,5,7 CABINETS
C205	1 1/4"	DV-NE-S DRIVE 4	CONDUIT BODY (1 1/2")	CABLE FURNISHED BY FLUX VECTOR DRIVE MANUFACTURER	1#10	-	NE-S DRIVE MOTOR ENCODER
C206	1 1/4"	DV-NE-N DRIVE 3	CONDUIT BODY (1 1/2")	CABLE FURNISHED BY FLUX VECTOR DRIVE MANUFACTURER	1#10	-	NE-N DRIVE MOTOR ENCODER
C207	1 1/2"	CONDUIT BODY (1 1/2")	JBOX JHI	CABLE FURNISHED BY FLUX VECTOR DRIVE MANUFACTURER	1#10	-	NE-N AND NES DRIVE MOTOR ENCODERS
C208	4"	NE DROP 3 IO & RELAY CABINET	JBOX JA1	93#12, 6#8	1#10	36#12	SEE DWGS E-119 AND E-120
C209	1 1/2"	JBOX JA1	JBOX JA2	10#12, 2#8	1#10	6#12	
C210	1"	JBOX JA2	CONDUIT BODY (1")	6#12	1#12	-	
C211		CONDUIT BODY (1")	ZS-TGNESOCUA	2#12	-	-	ZS-TGNESOCUA
C212		CONDUIT BODY (1")	ZS-TGNESOCDA	2#12	-	-	ZS-TGNESOCDA
C213		CONDUIT BODY	ZS-TGNESOCHC	2#12	-	-	ZS-TGNESOCHC
C214		JBOX JA2	TG-NESOC FLASHER	2#10	1#12	-	FLASHER
C215	1"	JBOX JA2	CONDUIT BODY (1")	4#12	1#12	-	SEE C216, C220 AND C221
C216		CONDUIT BODY (1")	DS-BF	2#12	-	-	DS-BF
C217		DS-BF	DS-BR	2#12	-	-	DS-BR
C218		DS-BR	ZS-TGNESOCUB	1#12	-	-	ZS-TGNESOCUB
C219		DS-BR	ZS-TGNESOCDB	1#12	-	-	ZS-TGNESOCDB
C220		CONDUIT BODY (1")	ZS-TGNESOCUB	1#12	-	-	ZS-TGNESOCUB
C221		CONDUIT BODY (1")	ZS-TGNESOCDB	1#12	-	-	ZS-TGNESOCDB
C222	2"	JBOX JA1	JBOX JA3	20#12	1#12	6#12	SEE DWG E-120

CONDUIT AND WIRE SCHEDULE

CONDUIT NO.	SIZE	FROM	TO	CONDUCTORS ACTIVE	GROUND	SPARES	REMARKS
C223	3/4"	JBOX JA3	ZS-NESOVSP	2#12	1#12	-	ZS-NESOVSP
C224	1"	JBOX JA3	CONDUIT BODY (1")	6#12	1#12	-	SEE C225, C226
C225	3/4"	CONDUIT BODY (1")	ZS-MOBNESS	2#12	-	-	ZS-MOBNESS
C226	1"	CONDUIT BODY (1")	CONDUIT BODY (1")	4#12	-	-	ZS-MOBNESR, ZS-MOBNESMR
C227	3/4"	CONDUIT BODY (1")	ZS-MOBNESR	2#12	-	-	ZS-MOBNESR
C228	3/4"	CONDUIT BODY (1")	ZS-MOBNESMR	2#12	-	-	ZS-MOBNESMR
C229	1 1/4"	JBOX JA3	CONDUIT BODY (1 1/4")	12#12	1#12	-	SEE C230, C231
C230	3/4"	CONDUIT BODY (1 1/4")	ZS-MBNESMR	4#12	-	-	ZS-MBNESMR
C231	1"	CONDUIT BODY (1 1/4")	CONDUIT BODY (1")	8#12	-	-	ZS-MBNESMR, ZS-MBNESS
C232	3/4"	CONDUIT BODY (1")	ZS-MBNESR	4#12	-	-	ZS-MBNESR
C233	3/4"	CONDUIT BODY (1")	ZS-MBNESS	4#12	-	-	ZS-MBNESS
C234	3 1/2"	JBOX JA1	JBOX JB1	63#12, 6#8	1#8	24#12	SEE DWG E-120
C235	1 1/4"	JBOX JB1	BG-VFDS	9#12	1#10	6#12	SEE DWGS E-112 AND E-120
C236	2"	BG-VFDS	BG-NESOC, SOUTH TOWER	23#12	1#10	3#10, 3#8	SEE DWGS E-39, E-112 AND E-120
C237	2"	BG-VFDS	BG-NENOC, NORTH TOWER	23#12	1#10	3#10, 3#8	BG-NENOC, NORTH TOWER
C238	2 1/2"	JBOX JB1	JBOX JC1	30#12, 6#8	1#8	12#12	SEE DWG E-120
C239	2"	JBOX JC1	JBOX JC2	10#12, 6#8	1#8	6#12	SEE DWG E-120
C240	1 1/4"	JBOX JC2	CONDUIT BODY (1 1/4")	5#12	1#10	-	SEE DWGS E-90 AND E-120
C241		CONDUIT BODY (1 1/4")	ZS-TGNENOC	3#12	-	-	GONG
C242		CONDUIT BODY (1 1/4")	FLASHER	2#12	1#12	-	FLASHER
C243	1 1/4"	JBOX JC2	CONDUIT BODY (1 1/4")	10#12	1#12	-	SEE C244, C245, C246, C248, C251, C252
C244		CONDUIT BODY (1 1/4")	ZS-TGNENOCUA	2#12	-	-	ZS-TGNENOCUA
C245		CONDUIT BODY (1 1/4")	ZS-TGNENOCDA	2#12	-	-	ZS-TGNENOCDA
C246		CONDUIT BODY (1 1/4")	ZS-TGNENOCHC	2#12	-	-	ZS-TGNENOCHC
C247		CONDUIT BODY (1 1/4")	DS-BF	2#12	-	-	DS-BF
C248		DS-BF	DS-BR	2#12	-	-	DS-BR
C249		DS-BR	ZS-TGNENOCUB	1#12	-	-	ZS-TGNENOCUB
C250		DS-BR	ZS-TGNENOCDB	1#12	-	-	ZS-TGNENOCDB
C251		ZS-TGNENOCUB	CONDUIT BODY (1 1/4")	1#12	-	-	ZS-TGNENOCUB
C252		ZS-TGNENOCDB	CONDUIT BODY (1 1/4")	1#12	-	-	ZS-TGNENOCDB
C253	1 1/4"	JBOX JC2	TRAFFIC SIGNAL POLE HANDHOLE	2#12, 4#8	1#8	4#10	GONG, TL-WBA, TL-WBB
C254		TRAFFIC SIGNAL POLE HANDHOLE	WB-GONG	2#12	-	-	GONG
C255		TRAFFIC SIGNAL POLE HANDHOLE	TRAFFIC SIGNAL TL-WBA	2#10	-	-	TL-WBA
C256		TRAFFIC SIGNAL POLE HANDHOLE	TRAFFIC SIGNAL TL-WBB	2#10	-	-	TL-WBB
C257	2"	BG-VFD	BG-SWNOC, NORTH TOWER	23#12	1#10	10#12	SEE DWGS E-43, E-92 AND E-119
C258	2"	JBOX JC1	JBOX JC3	20#12	1#8	6#12	
C259	1 1/4"	JBOX JC3	CONDUIT BODY (1 1/4")	12#12	1#12	-	SEE DWGS C260, C261
C260	3/4"	CONDUIT BODY (1 1/4")	ZS-MBNENS	4#12	-	-	ZS-MBNENS
C261	1"	CONDUIT BODY (1 1/4")	CONDUIT BODY (1")	8#12	-	-	ZS-MBNENR, ZS-MBNENMR
C262	3/4"	CONDUIT BODY (1")	ZS-MBNENR	4#12	-	-	ZS-MBNENR
C263	3/4"	CONDUIT BODY (1")	ZS-MBNENMR	4#12	-	-	ZS-MBNENMR
C264	1"	JBOX JC3	CONDUIT BODY (1")	8#12	1#12	-	SEE C265, C270
C265	1"	CONDUIT BODY (1")	CONDUIT BODY (1")	6#12	1#12	-	
C266	3/4"	CONDUIT BODY (1")	ZS-MOBNENS	2#12	-	-	ZS-MOBNENR
C267	1"	CONDUIT BODY (1")	CONDUIT BODY (1")	4#12	-	-	ZS-MOBNENR, ZS-MOBNENMR
C268	3/4"	CONDUIT BODY (1")	ZS-MOBNENR	2#12	-	-	ZS-MOBNENR
C269	3/4"	CONDUIT BODY (1")	ZS-MOBNENMR	2#12	-	-	ZS-MOBNENMR
C270	3/4"	CONDUIT BODY (1")	ZS-NENOVSP	2#12	1#12	-	ZS-NENOVSP

PB Americas, Inc.
230 WEST MONROE STREET,
SUITE 900
CHICAGO, IL. 60606

USER NAME = sharma	DESIGNED - A. CENTENO	REVISED -	
FILE NAME = D160d61-sht-elc-73.dgn	DRAWN - S. SHARMA	REVISED -	
PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -	
PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONDUIT AND WIRE SCHEDULE
SHEET 6

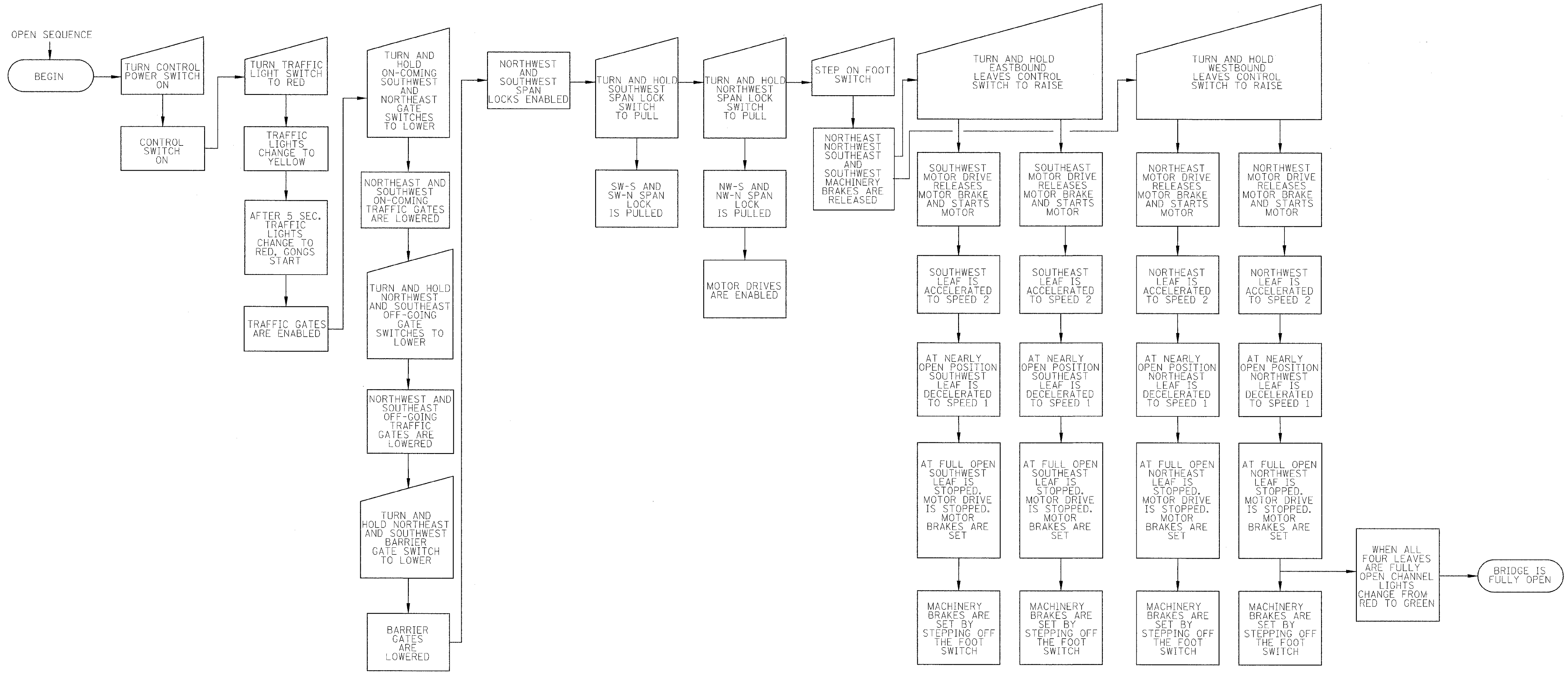
SCALE: AS SHOWN | SHEET NO. E-73 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	344
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.



OPEN SEQUENCE

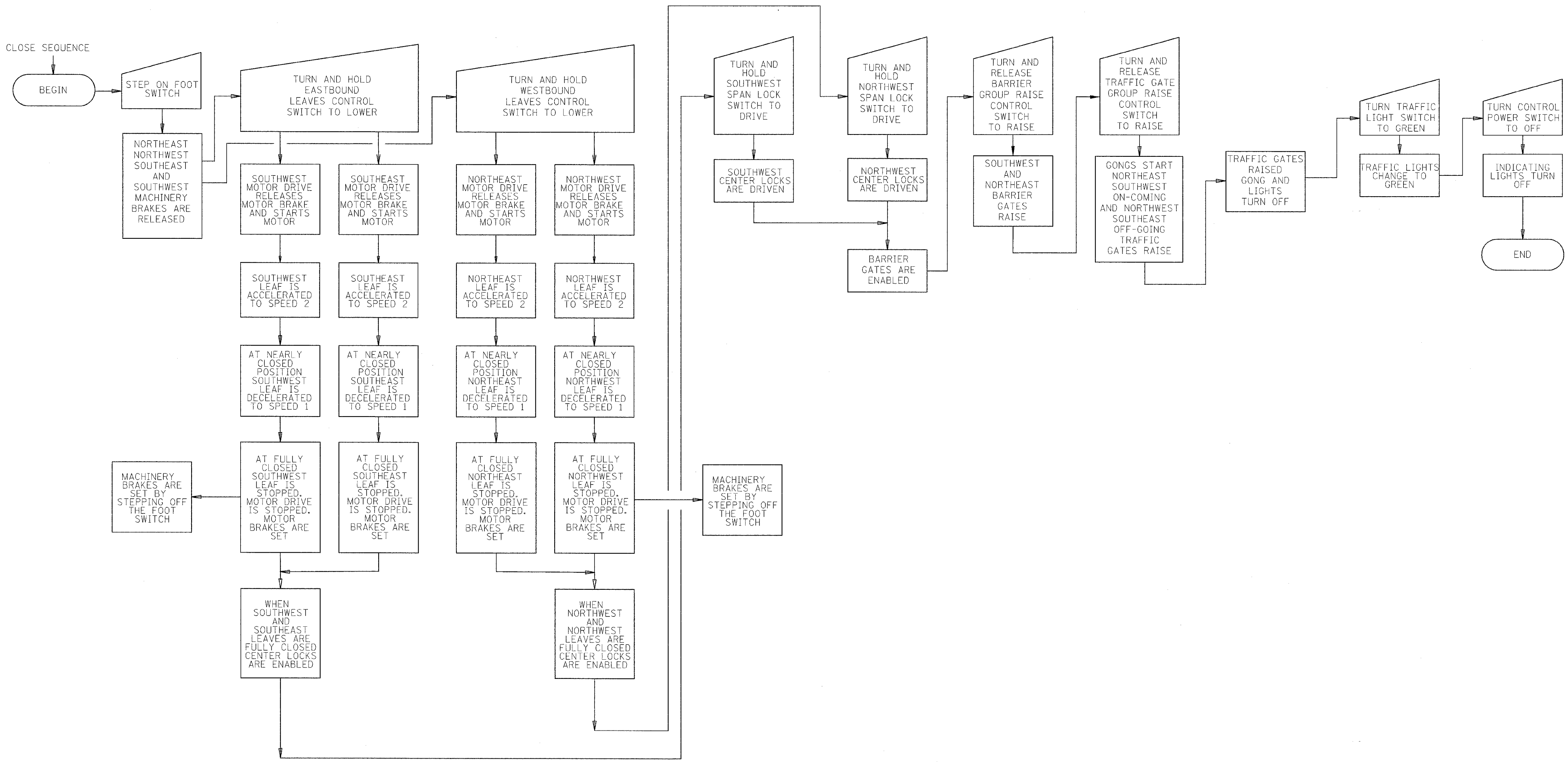
BRIDGE OPERATING SEQUENCE BLOCK DIAGRAM

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - A. CENTENO	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BRIDGE OPERATING SEQUENCE BLOCK DIAGRAM SHEET 1**	
	FILE NAME = D160d61-sht-olc-74.dgn	DRAWN - S. SHARMA	REVISED -			
	PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -		SCALE: AS SHOWN	SHEET NO. E-74 OF E-125 SHEETS
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -		STA. 379+06.09 TO STA. 382+45.28	

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	345
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06



CLOSE SEQUENCE
BRIDGE OPERATING SEQUENCE BLOCK DIAGRAM

PB Americas, Inc.
230 WEST MONROE STREET,
SUITE 900
CHICAGO, IL. 60606

USER NAME = sharma	DESIGNED - A. CENTENO	REVISED -	
FILE NAME = D160d61-sht-elc-75.dgn	DRAWN - S. SHARMA	REVISED -	
PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -	
PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE OPERATING SEQUENCE BLOCK DIAGRAM
SHEET 2

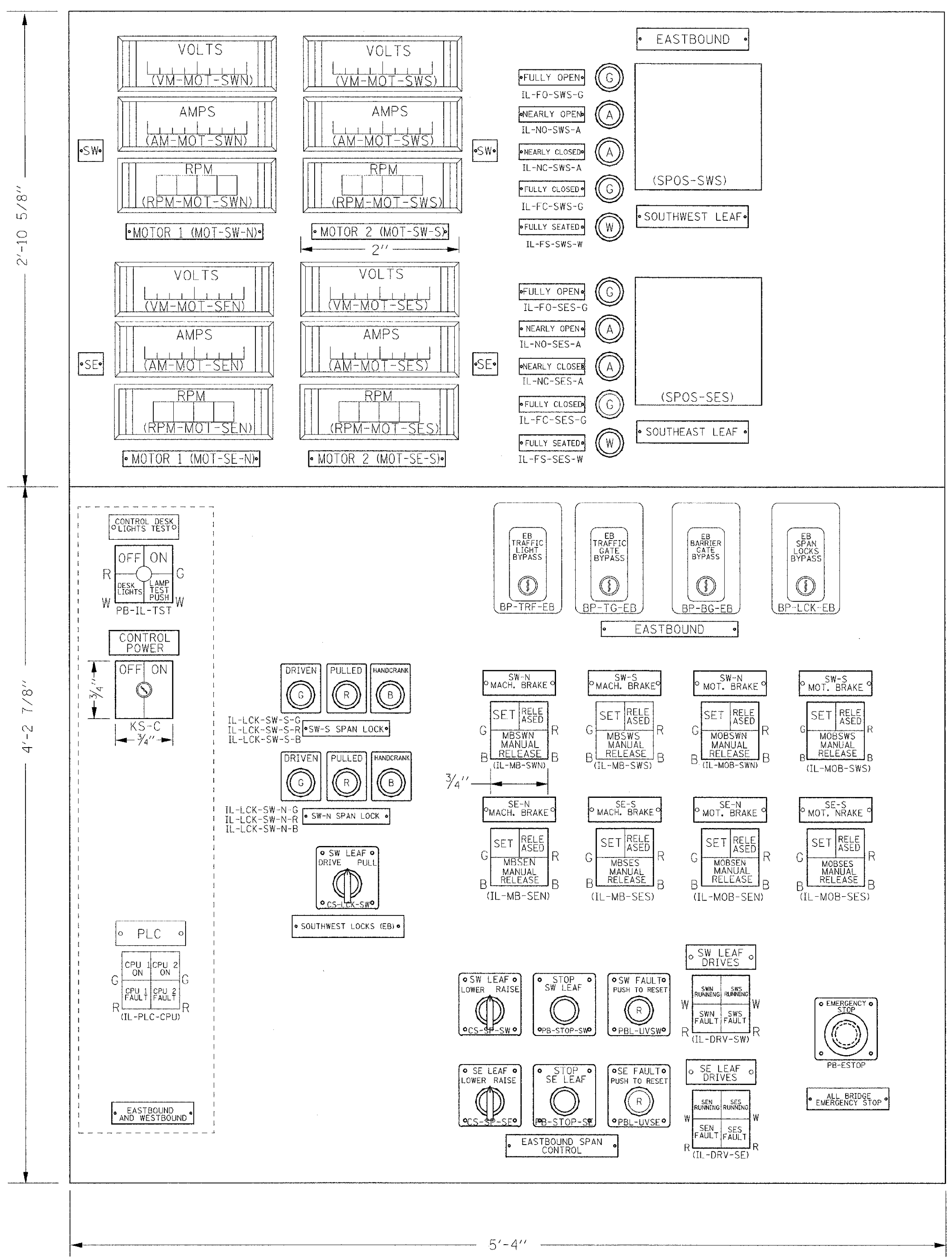
SCALE: AS SHOWN | SHEET NO. E-75 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	346
		CONTRACT NO. 60D61		

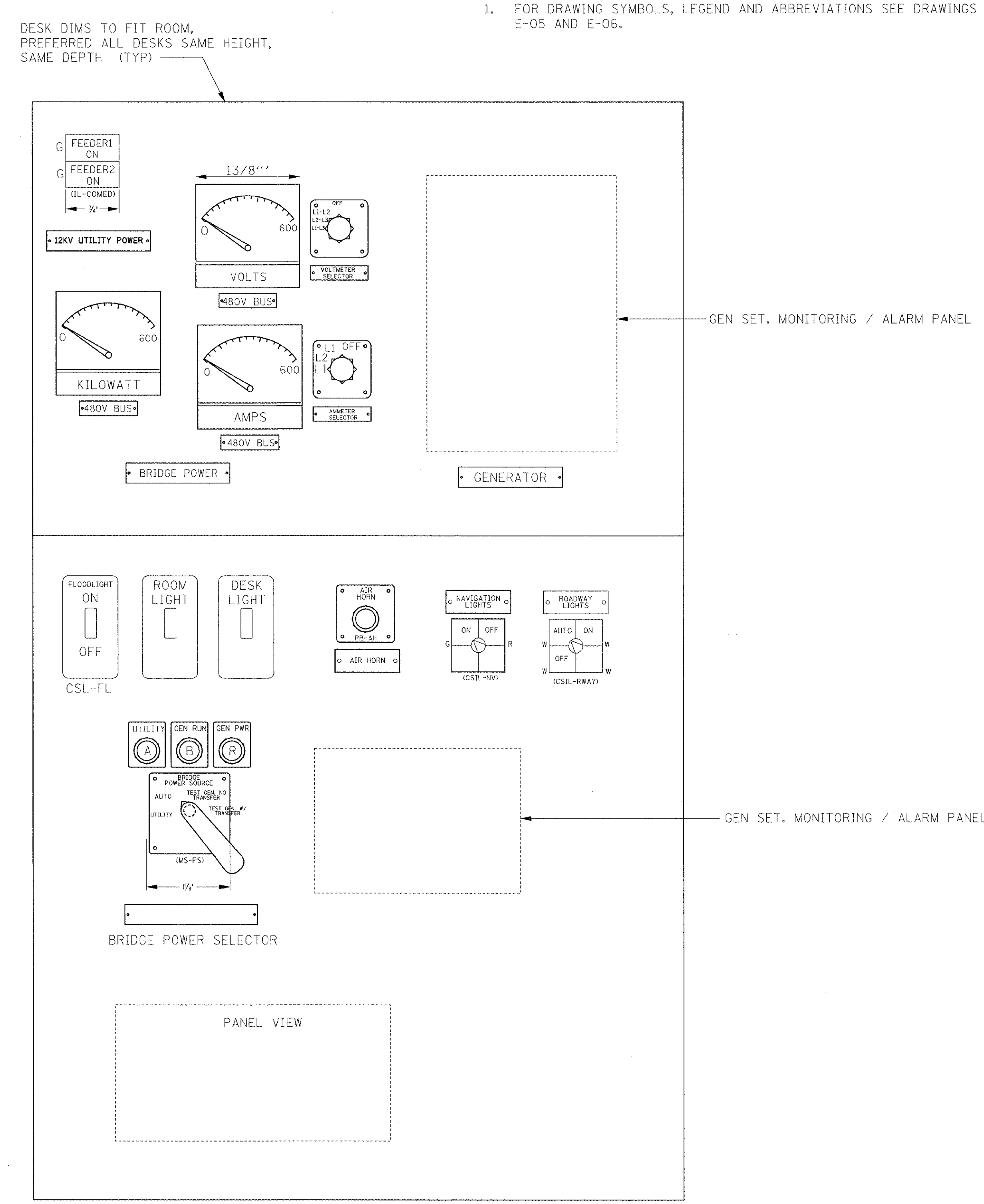
FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.



CONTROL DESK LAYOUT
EASTBOUND CONTROL CONSOLE E-CC-1
LAYOUT



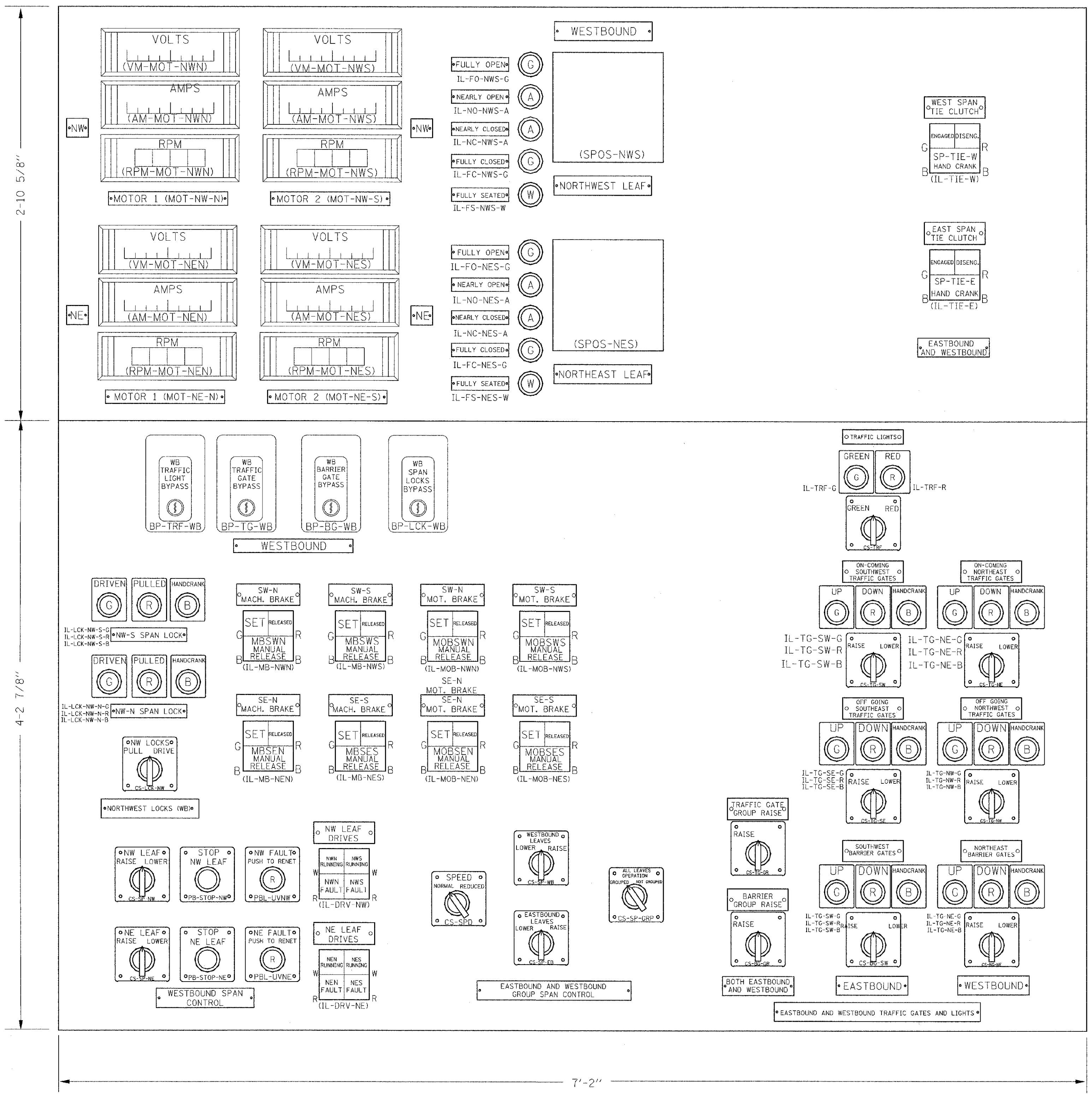
BRIDGE POWER, LIGHTING & CCTV CONTROL DESK LAYOUT
N.T.S.

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED B. CROUTHAMEL	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**CONTROL DESK LAYOUT SHEET 1**
	FILE NAME = D160d61-sht-elc-76.dgn	DRAWN - S. SHARMA	REVISED -		
	PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -		
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -		SCALE: AS SHOWN / SHEET NO. E-76 OF E-125 SHEETS / STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	347
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

NOTES:

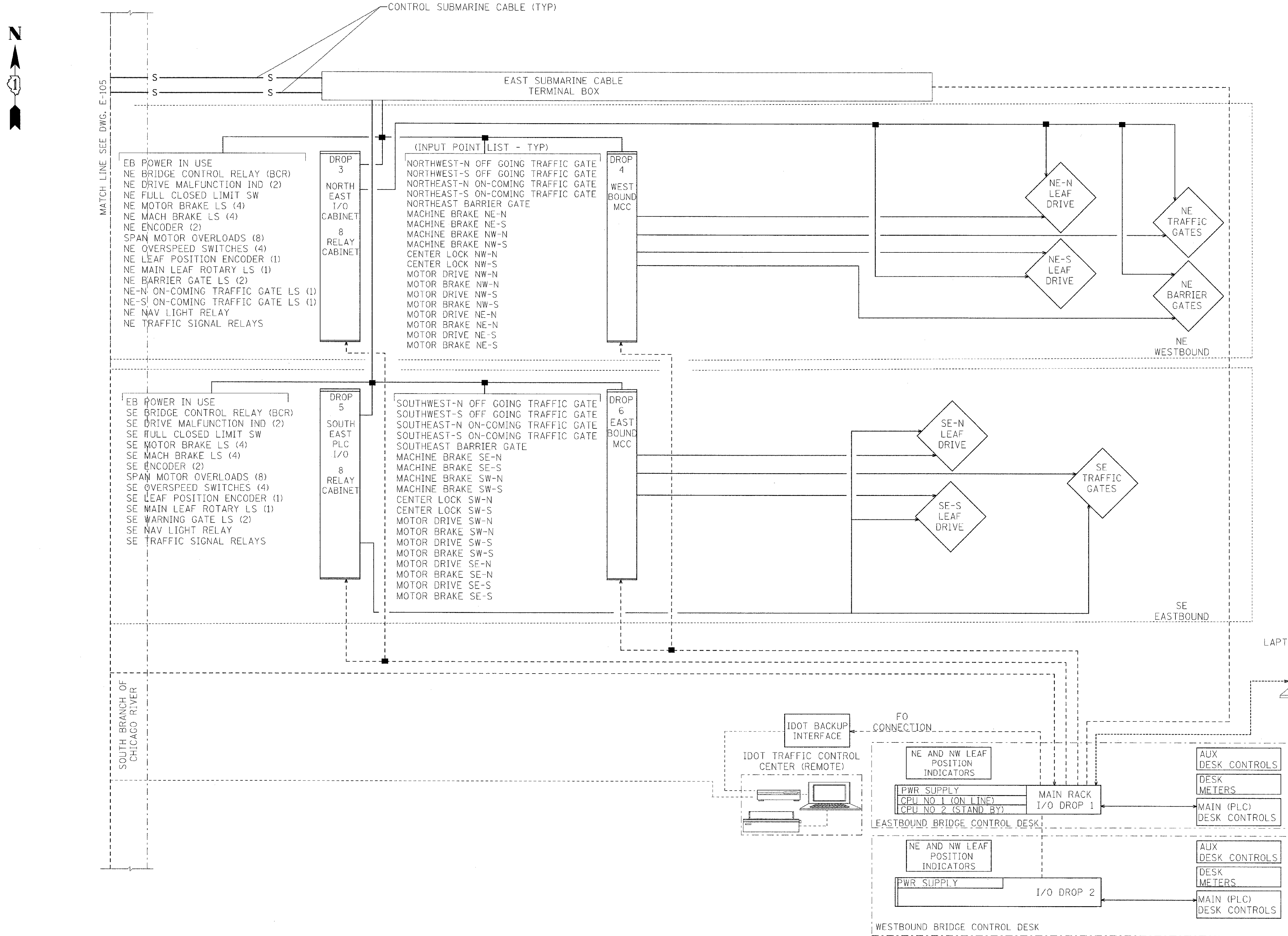
1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.



CONTROL DESK LAYOUT
WESTBOUND CONTROL CONSOLE W-CC-1

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - B. CROUTHAMEL/S. STERN	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**CONTROL DESK LAYOUT SHEET 2**
	FILE NAME = D168d61-sht-elc-77.dgn	DRAWN - S. SHARMA	REVISED -		
	PLOT SCALE = NONE	CHECKED - M. INTATANO	REVISED -		
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -		SCALE: AS SHOWN / SHEET NO. E-77 OF E-125 SHEETS / STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	348
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



BRIDGE CONTROL BLOCK DIAGRAM

LEGEND

- - - - - - DIGITAL DATA LINE CONNECTION(S)

——— HARDWIRED CONNECTION(S)

SE TRAFFIC GATES — SYSTEM / DEVICE TO BE OPERATED

■ CONNECTION / JUNCTION POINT FOR MULTIPLE CONTROL CIRCUITS

NOTES:

1. CONTRACTOR SHALL SUBMIT PLC LADDER AND PLC PROGRAM FOR REVIEW PER SPECIFICATIONS
2. CONTRACTOR SHALL PROVIDE THE AS BUILT PLC LADDER DIAGRAM AND THE AS BUILT PLC PROGRAM IN THE MAINTENANCE MANUAL.
3. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.

PB Americas, Inc.
230 WEST MONROE STREET, SUITE 900
CHICAGO, IL. 60606

USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -	
FILE NAME = D160d61-sht-elc-78.dgn	DRAWN - S. SHARMA	REVISED -	
PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -	
PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

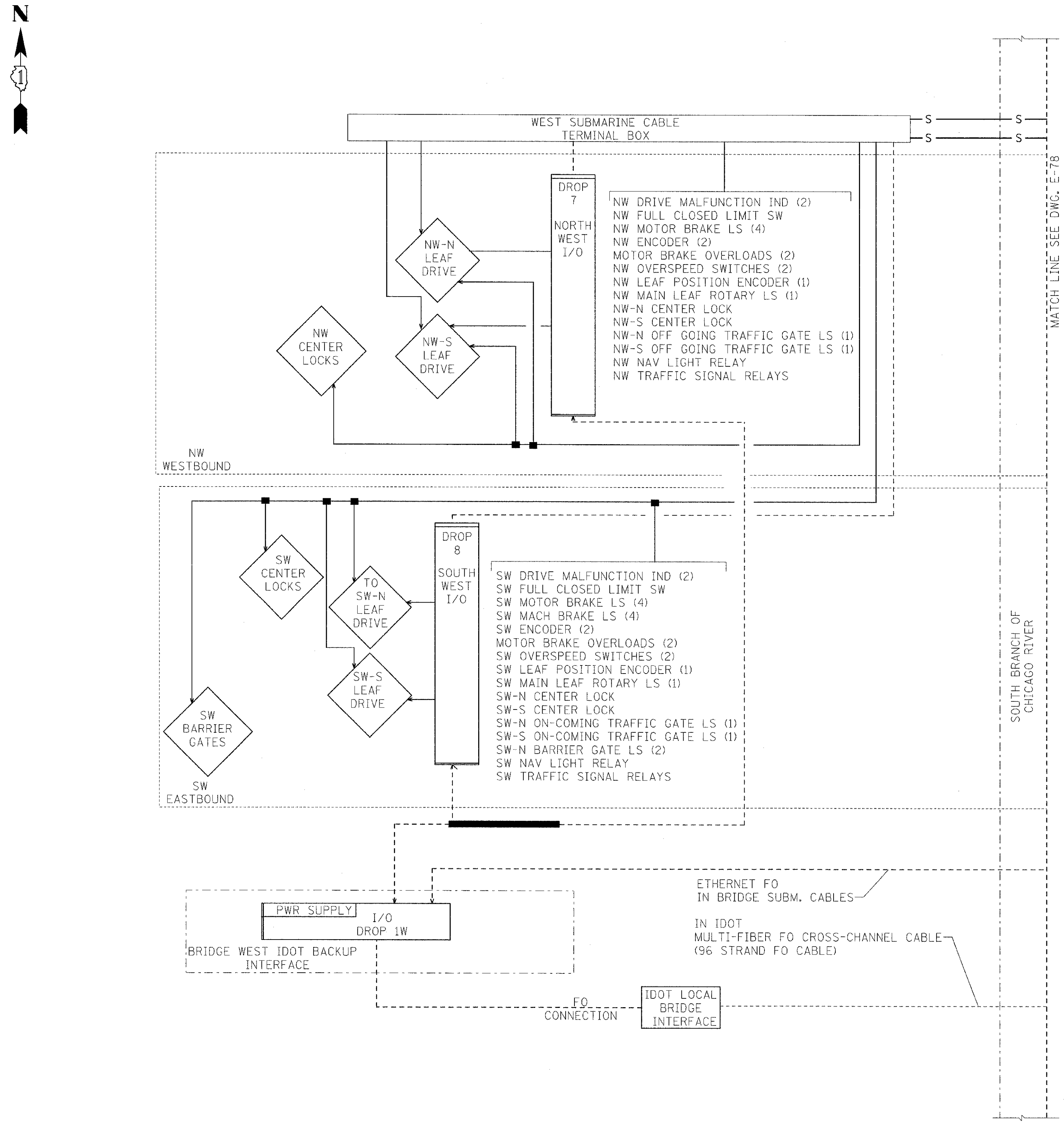
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE CONTROL BLOCK DIAGRAM
SHEET 1

SCALE: AS SHOWN | SHEET NO. E-78 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	349
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



BRIDGE CONTROL BLOCK DIAGRAM

LEGEND

- - - - - - DIGITAL DATA LINE CONNECTION(S)

——— HARDWIRED CONNECTION(S)

SE TRAFFIC GATES — SYSTEM / DEVICE TO BE OPERATED

■ CONNECTION / JUNCTION POINT FOR MULTIPLE CONTROL CIRCUITS

NOTES:

1. CONTRACTOR SHALL SUBMIT PLC LADDER AND PLC PROGRAM FOR REVIEW PER SPECIFICATIONS
2. CONTRACTOR SHALL PROVIDE THE AS BUILT PLC LADDER DIAGRAM AND THE AS BUILT PLC PROGRAM IN THE MINTENANCE MANUAL.
3. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.

PB Americas, Inc.
230 WEST MONROE STREET,
SUITE 900
CHICAGO, IL. 60606

USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -
FILE NAME = D160d61-sht-elc-79.dgn	DRAWN - S. SHARMA	REVISED -
PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -
PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE CONTROL BLOCK DIAGRAM
SHEET 2

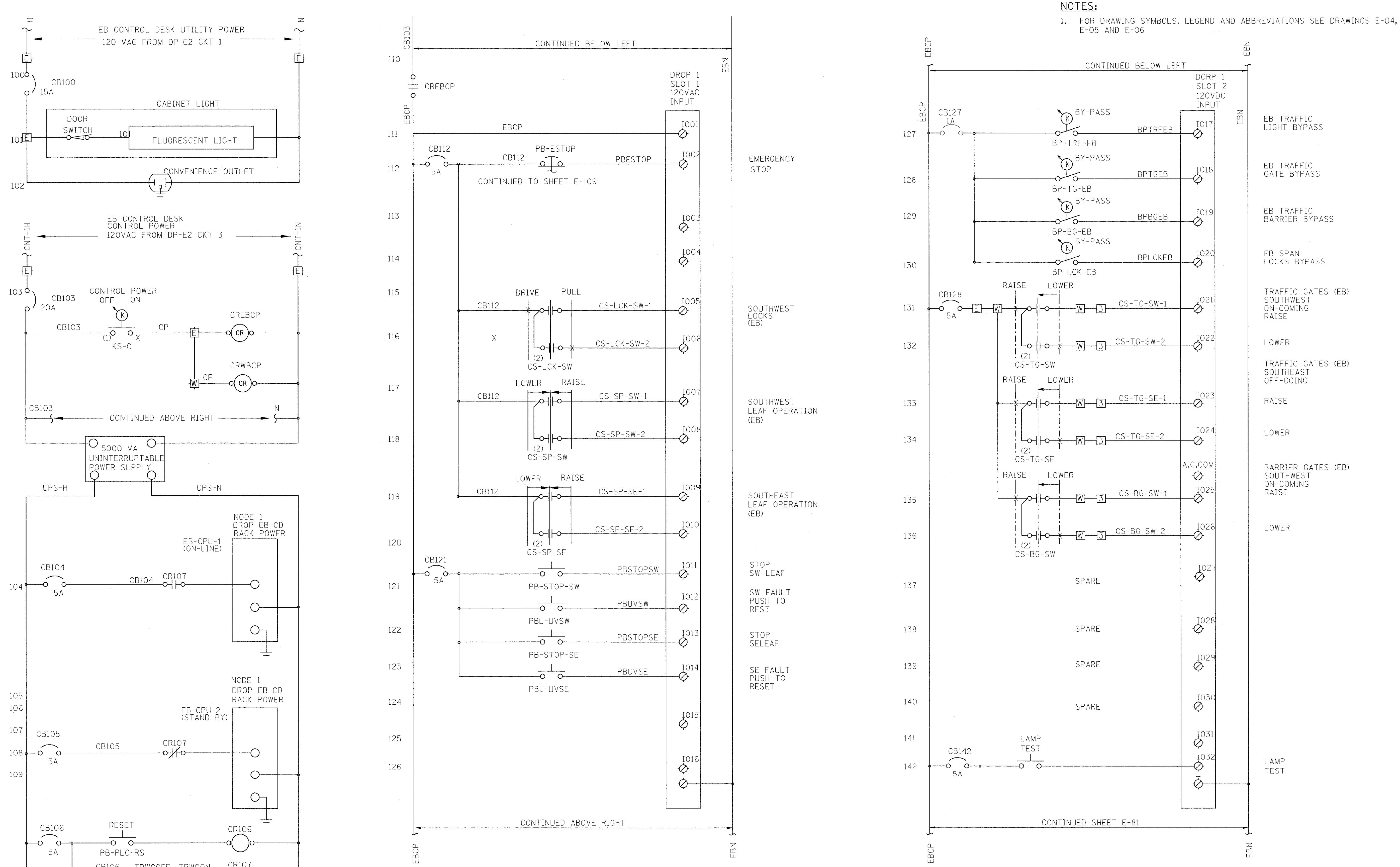
SCALE: AS SHOWN | SHEET NO. E-79 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	350
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06



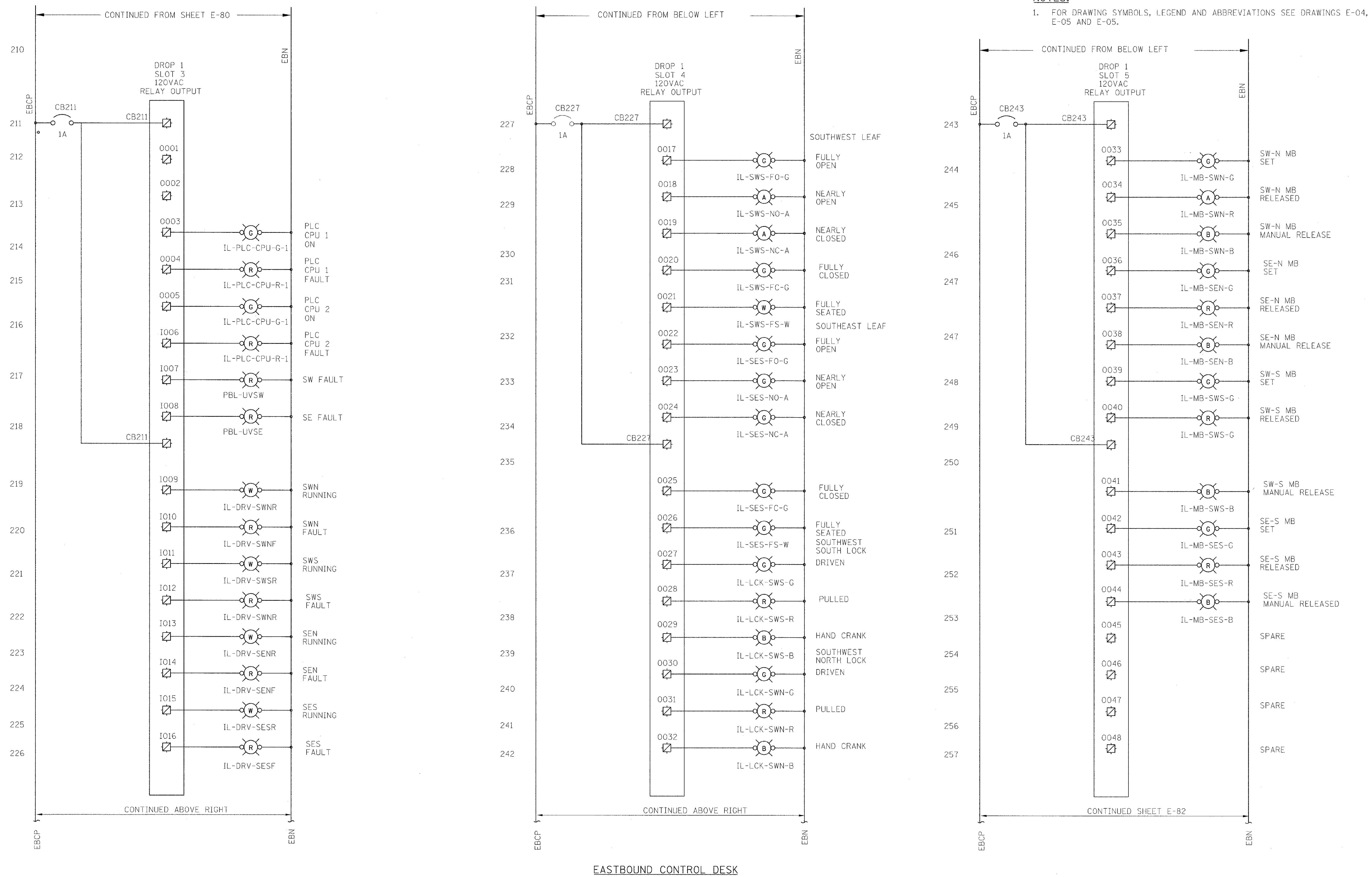
EASTBOUND CONTROL DESK

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma; FILE NAME = 0160d61-sht-elc-80.dgn; PLOT SCALE = NONE; PLOT DATE = 5/7/2009	DESIGNED - B. CROUTHAMEL; DRAWN - S. SHARMA; CHECKED - S. STERN; DATE - MAY 8, 2009	REVISED -; REVISED -; REVISED -; REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BRIDGE CONTROL SCHEMATIC DIAGRAM EASTBOUND - SHEET 1** SCALE: AS SHOWN; SHEET NO. E-80 OF E-125 SHEETS; STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	351
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-05.



EASTBOUND CONTROL DESK

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma FILE NAME = D160d61-sht-elc-81.dgn PLOT SCALE = NONE PLOT DATE = 5/7/2009	DESIGNED - B. CROUTHAMEL DRAWN - S. SHARMA CHECKED - S. STERN DATE - MAY 8, 2009	REVISED - REVISED - REVISED - REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

BRIDGE CONTROL SCHEMATIC DIAGRAM
EASTBOUND - SHEET 2

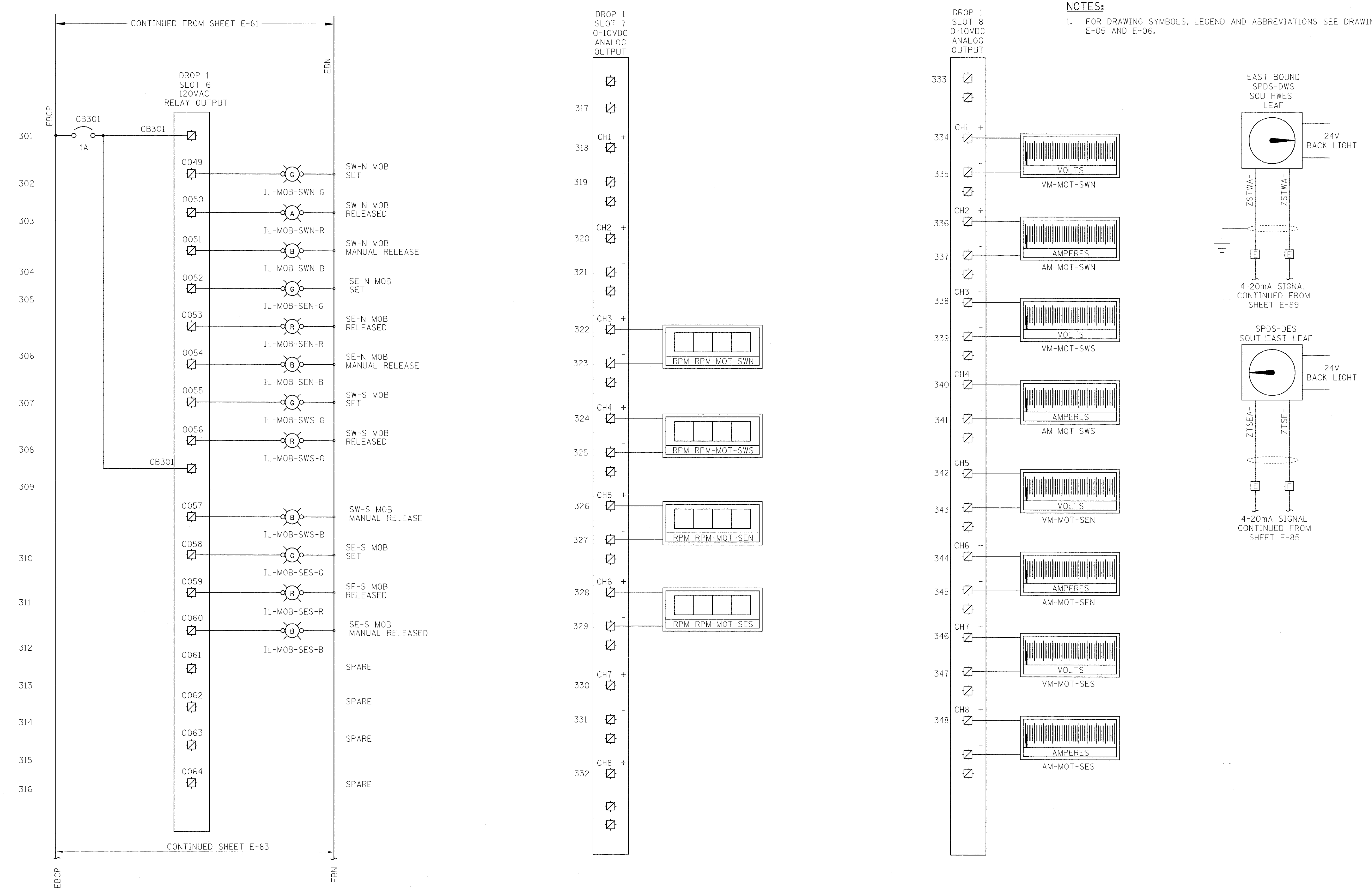
SCALE: AS SHOWN | SHEET NO. E-81 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-28-R	COOK	398	352
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.



EASTBOUND CONTROL DESK

PB Americas, Inc.
230 WEST MONROE STREET,
SUITE 900
CHICAGO, IL. 60606

USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -	
FILE NAME = D160d61-sht-elc-82.dgn	DRAWN - S. SHARMA	REVISED -	
PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -	
PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE CONTROL SCHEMATIC DIAGRAM
EASTBOUND - SHEET 3

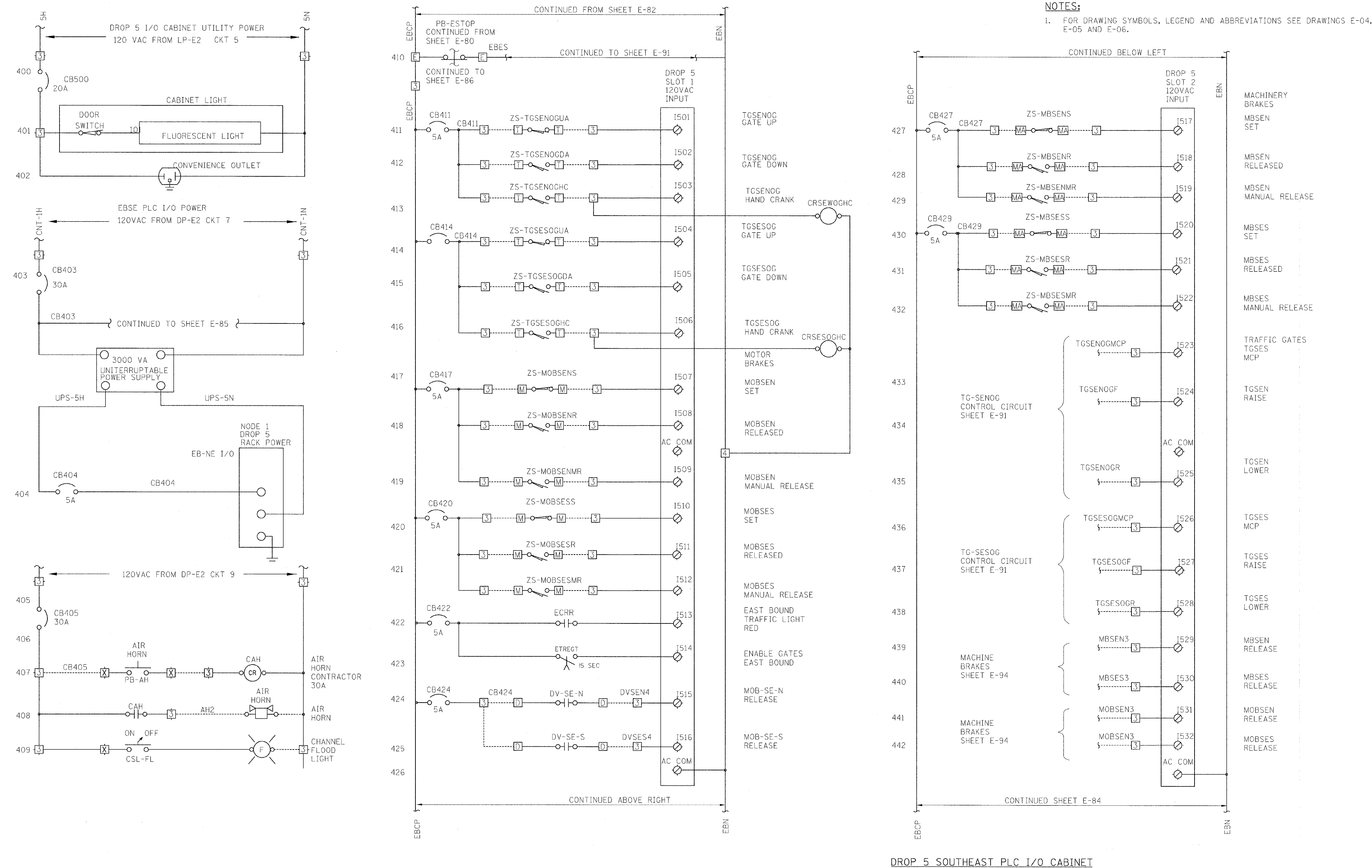
SCALE: AS SHOWN | SHEET NO. E-82 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	353
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT

NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.



DROP 5 SOUTHEAST PLC I/O CABINET

PB Americas, Inc.
230 WEST MONROE STREET, SUITE 900
CHICAGO, IL. 60606

USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -	
FILE NAME = D162d61-sht-elc-83.dgn	DRAWN - S. SHARMA	REVISED -	
PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -	
PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE CONTROL SCHEMATIC DIAGRAM
EASTBOUND - SHEET 4

SCALE: AS SHOWN | SHEET NO. E-83 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

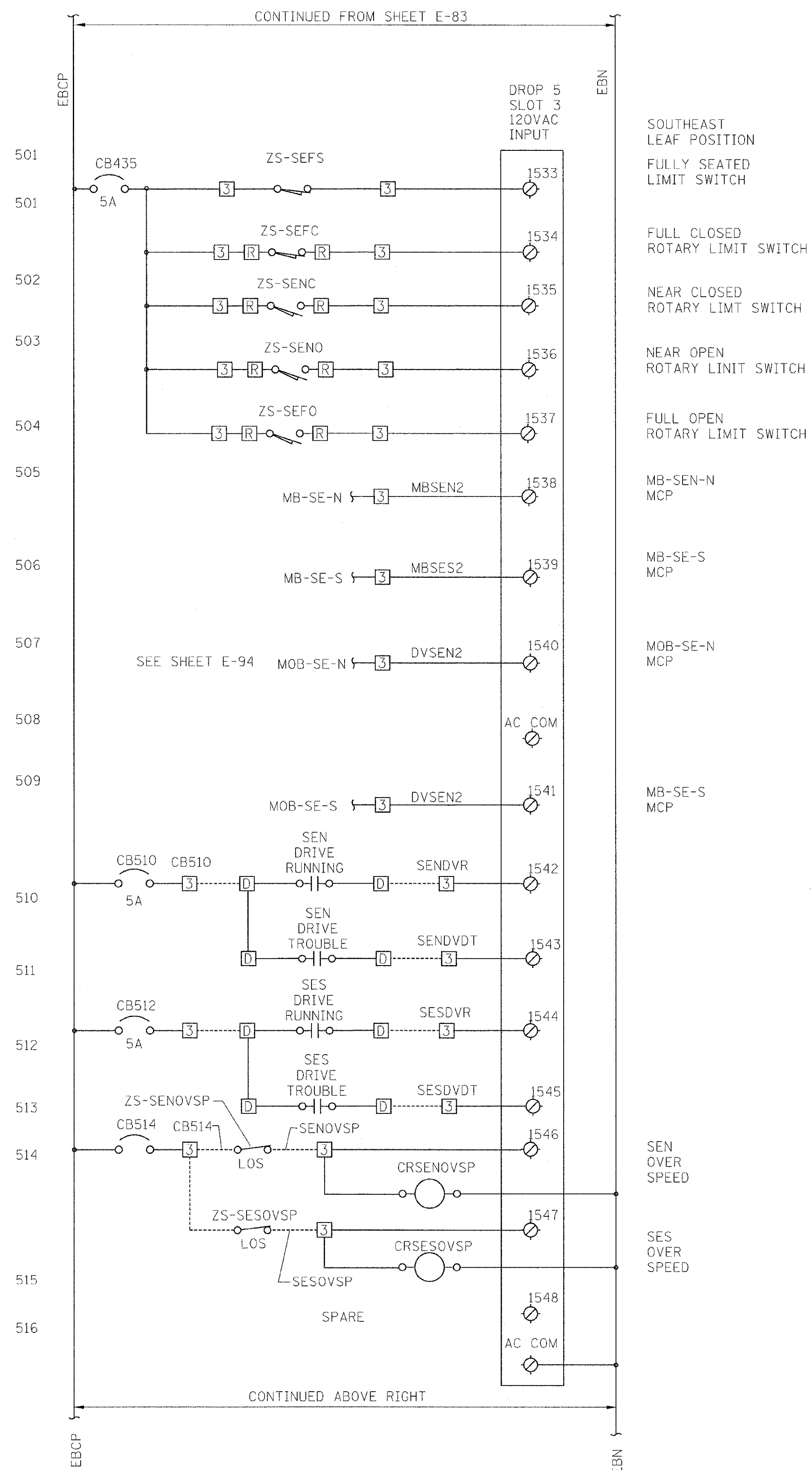
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	354

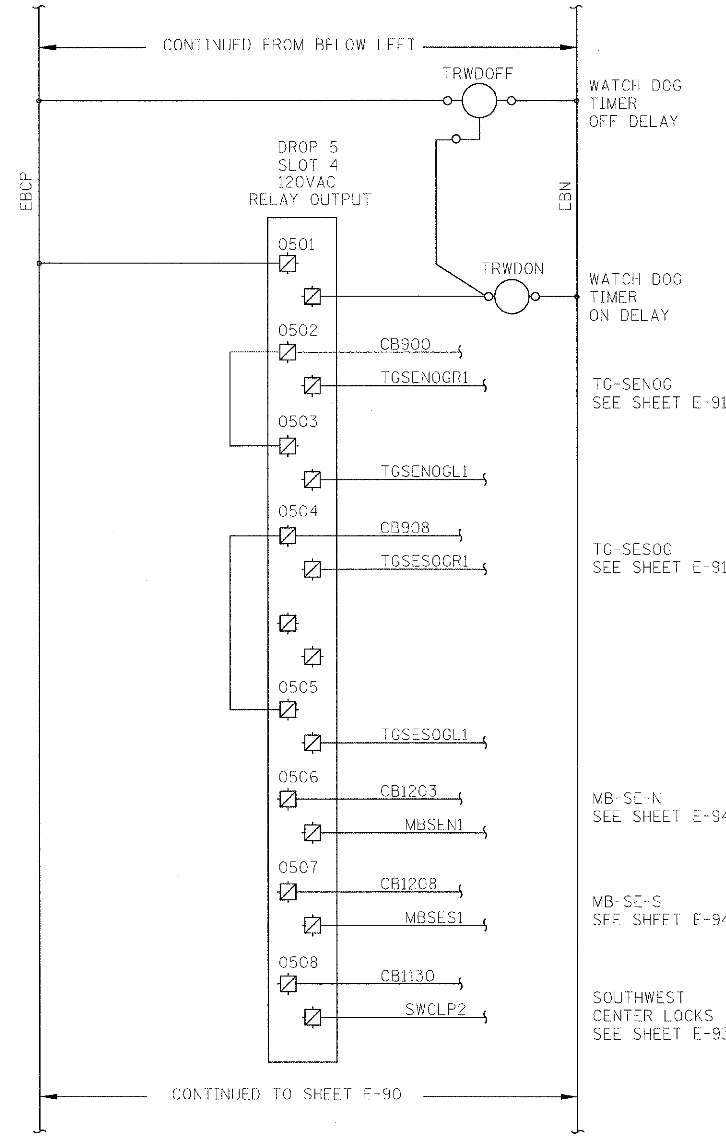
CONTRACT NO. 60D61

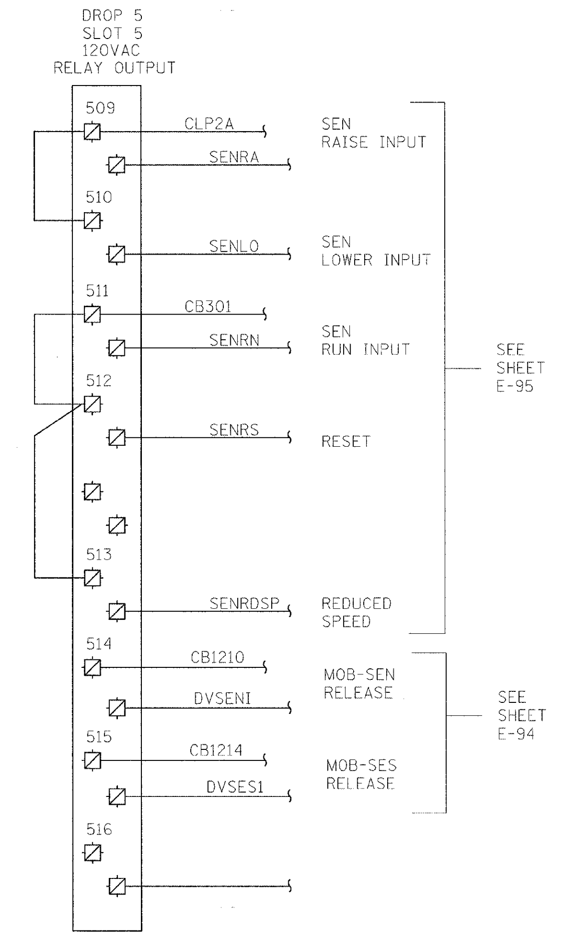
FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06

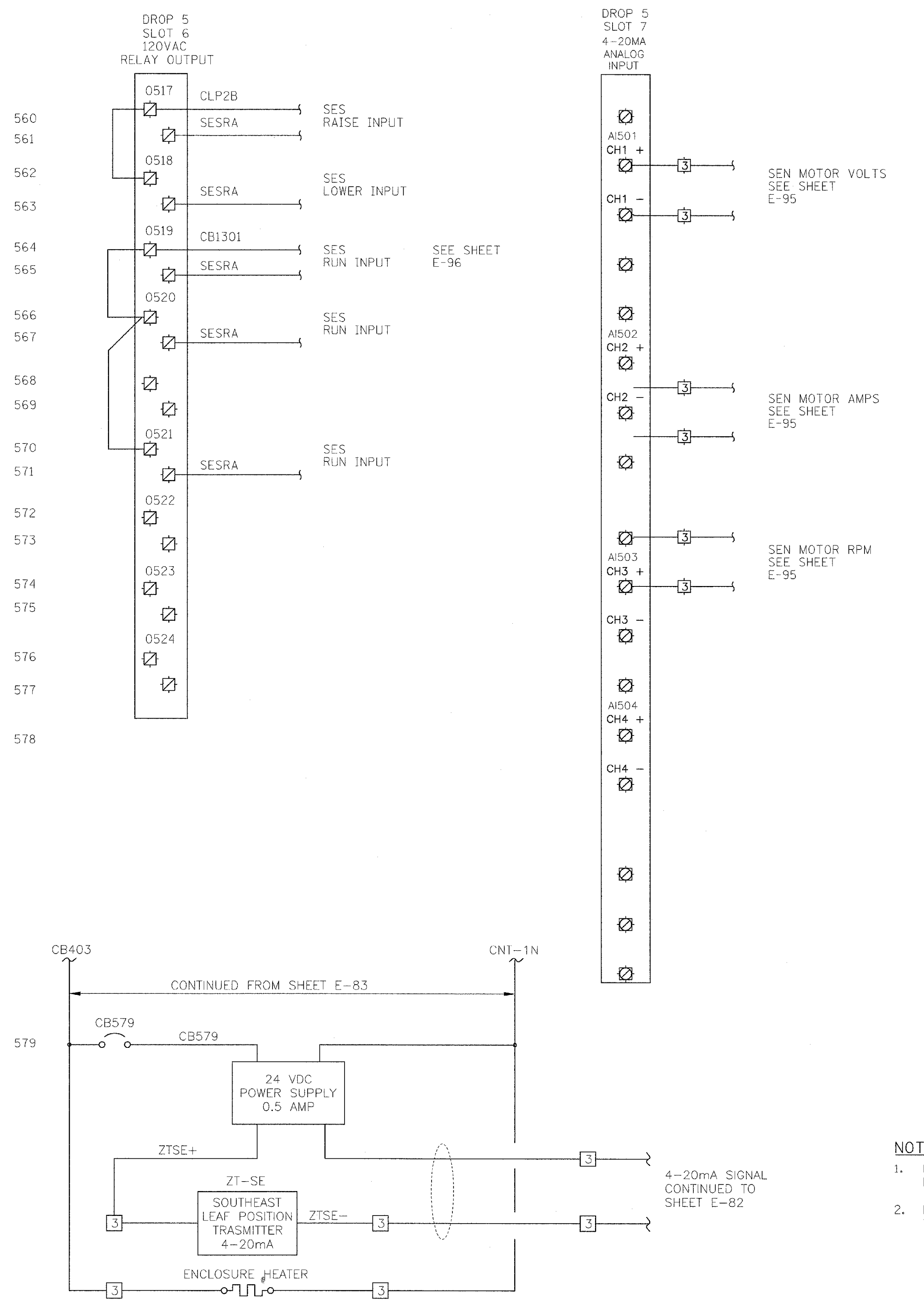




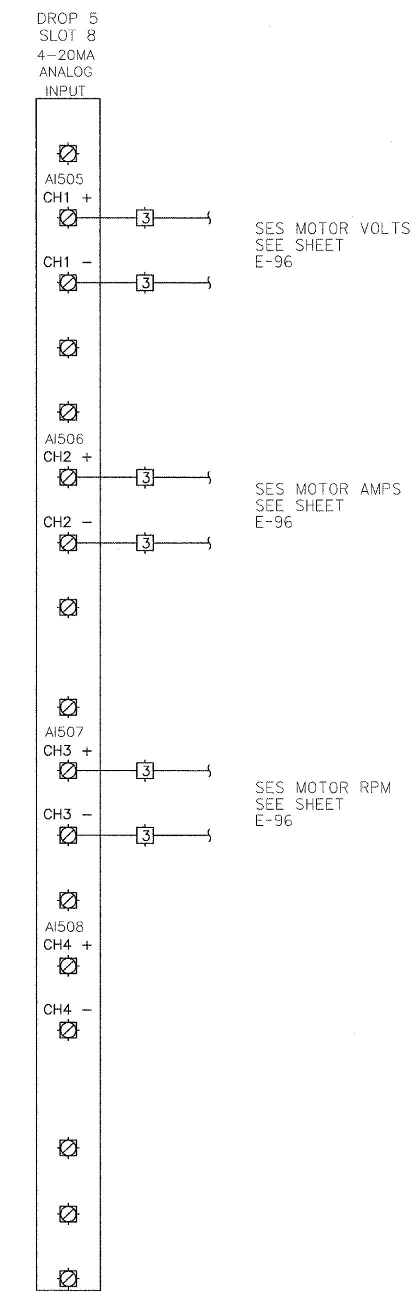


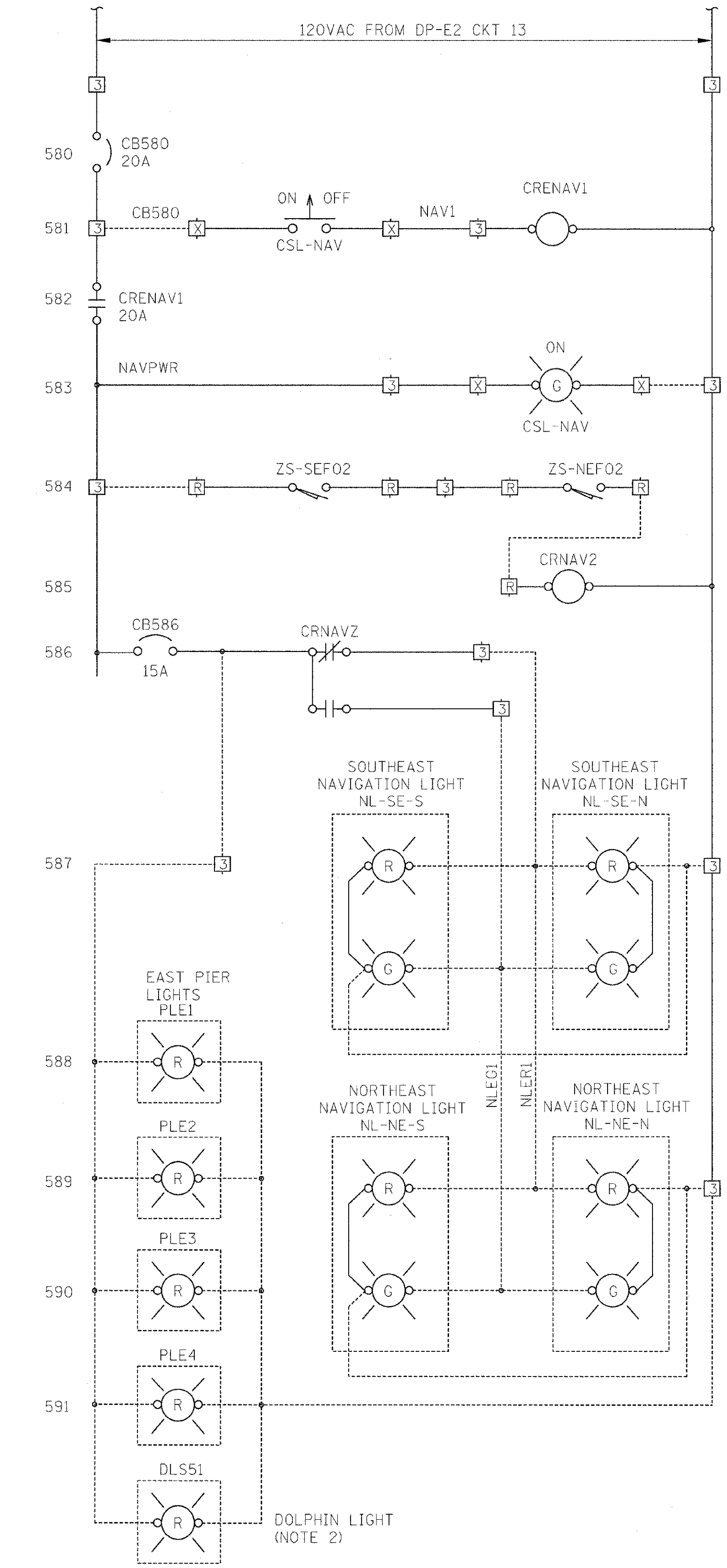
DROP 5 SOUTHEAST PLC I/O CABINET

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BRIDGE CONTROL SCHEMATIC DIAGRAM EASTBOUND - SHEET 5**	F.A.P RTE. 389	SECTION 2424-2B-R	COUNTY COOK	TOTAL SHEETS 398 / SHEET NO. 355
	FILE NAME = D160d61-sht-elc-84.dgn	DRAWN - S. SHARMA	REVISED -					CONTRACT NO. 60D61	
	PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -		SCALE: AS SHOWN / SHEET NO. E-84 OF E-125 SHEETS / STA. 379+06.09 TO STA. 382+45.28	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -						



SOUTHEAST LEAF POSITION TRANSMITTER





NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.
2. DOLPHIN LIGHT INSTALL BY DOLPHIN REPLACEMENT CONTRACT CONNECT TO NEW PIER LIGHT CIRCUIT.

DROP 5 SOUTHEAST PLC I/O CABINET

PB Americas, Inc.
230 WEST MONROE STREET,
SUITE 900
CHICAGO, IL. 60606

USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -	
FILE NAME = D160d61-sht-elc-85.dgn	DRAWN - S. SHARMA	REVISED -	
PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -	
PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE CONTROL SCHEMATIC DIAGRAM
EASTBOUND - SHEET 6

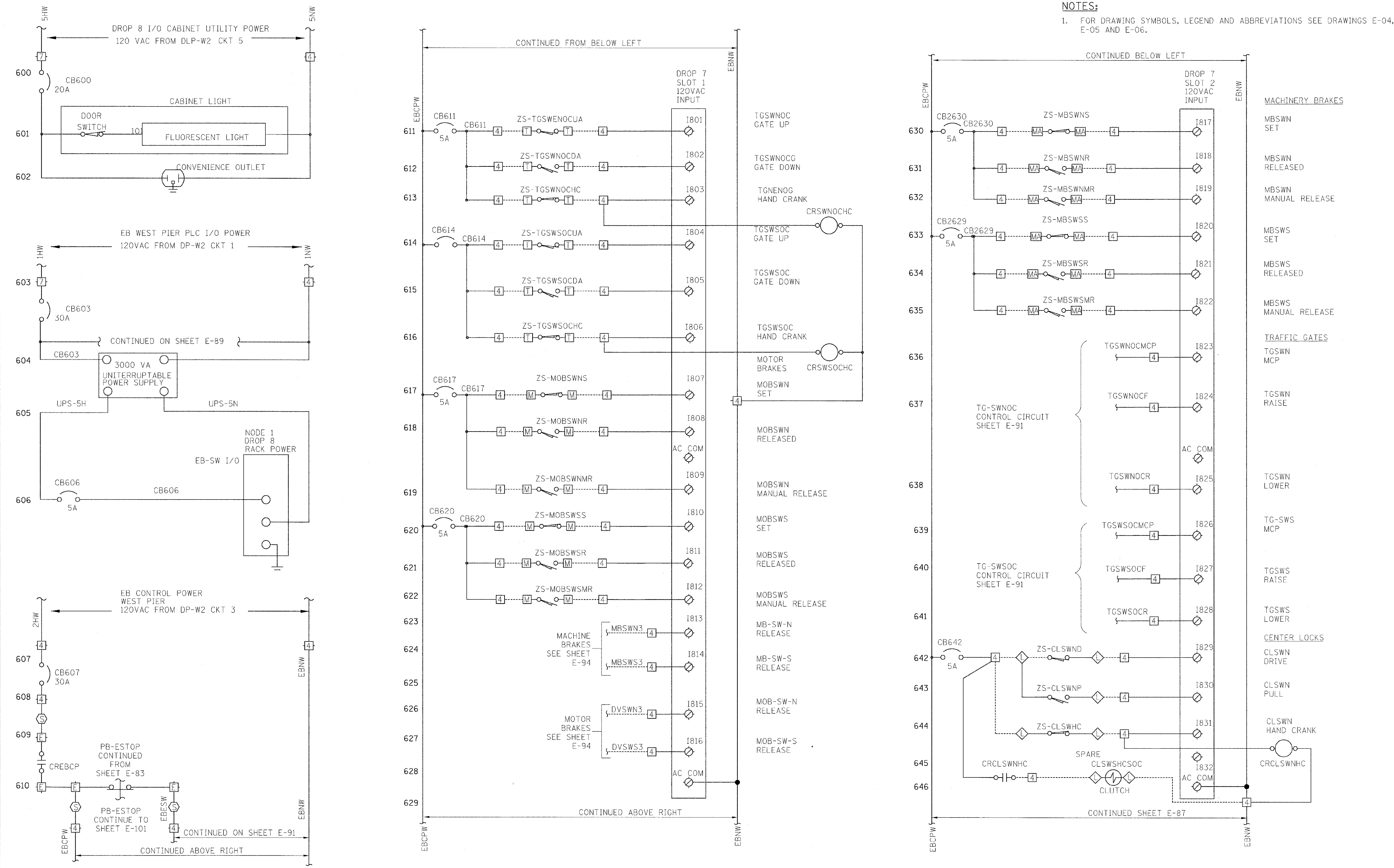
SCALE: AS SHOWN | SHEET NO. E-85 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	356
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.



DROP 8 SOUTHWEST PLC I/O CABINET

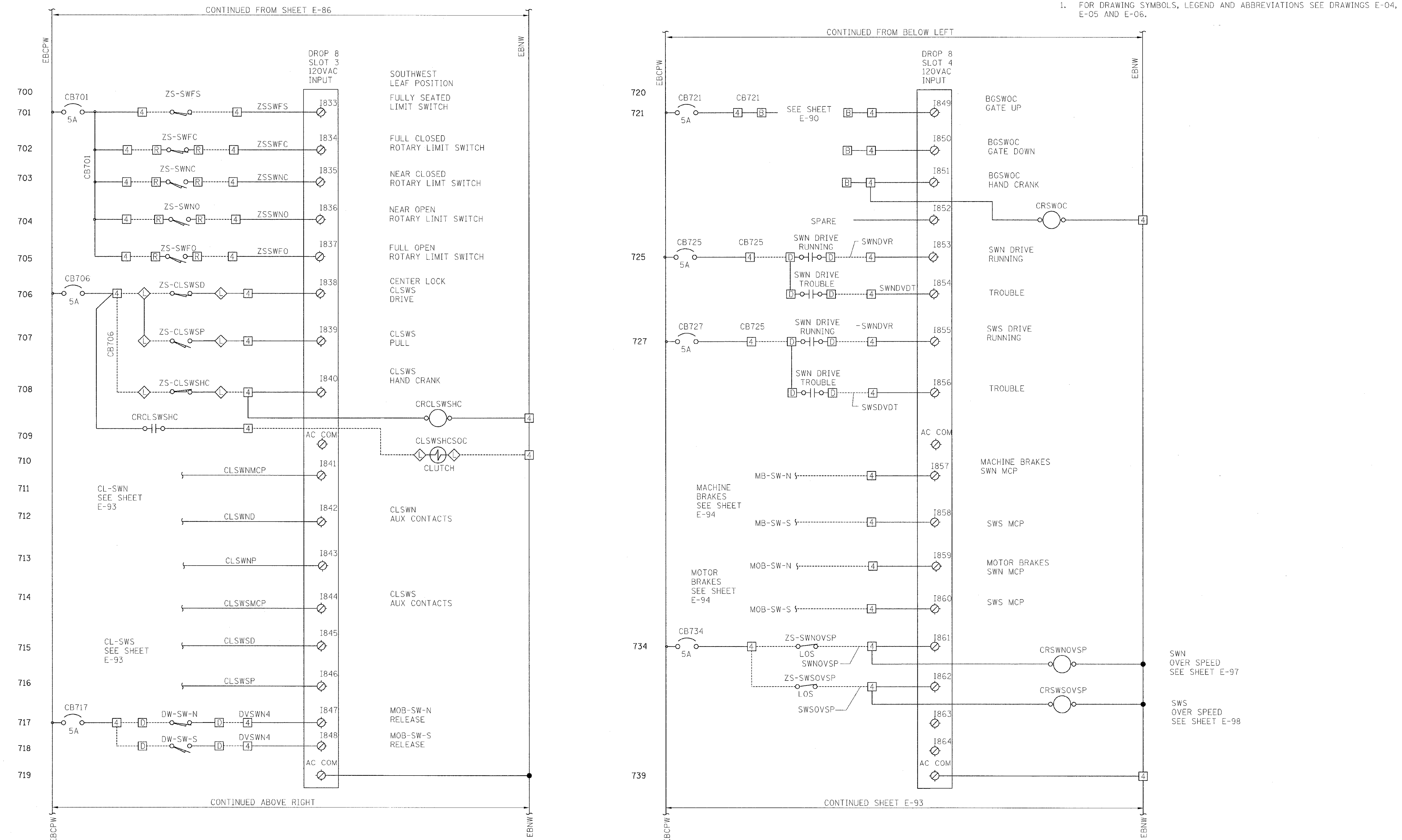
PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma FILE NAME = 0160d61-sht-elc-86.dgn PLOT SCALE = NONE PLOT DATE = 5/7/2009	DESIGNED - B. CROUTHAMEL DRAWN - S. SHARMA CHECKED - S. STERN DATE - MAY 8, 2009	REVISED - REVISED - REVISED - REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**

BRIDGE CONTROL SCHEMATIC DIAGRAM **EASTBOUND - SHEET 7**			
SCALE: AS SHOWN	SHEET NO. E-86 OF E-125 SHEETS	STA. 379+06.09 TO STA. 382+45.28	

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	357
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.



DROP 8 SOUTHWEST PLC I/O CABINET

PB Americas, Inc.
230 WEST MONROE STREET,
SUITE 900
CHICAGO, IL. 60606

USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -	
FILE NAME = D160d61-sht-elc-87.dgn	DRAWN - S. SHARMA	REVISED -	
PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -	
PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE CONTROL SCHEMATIC DIAGRAM
EASTBOUND - SHEET 8

SCALE: AS SHOWN | SHEET NO. E-87 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

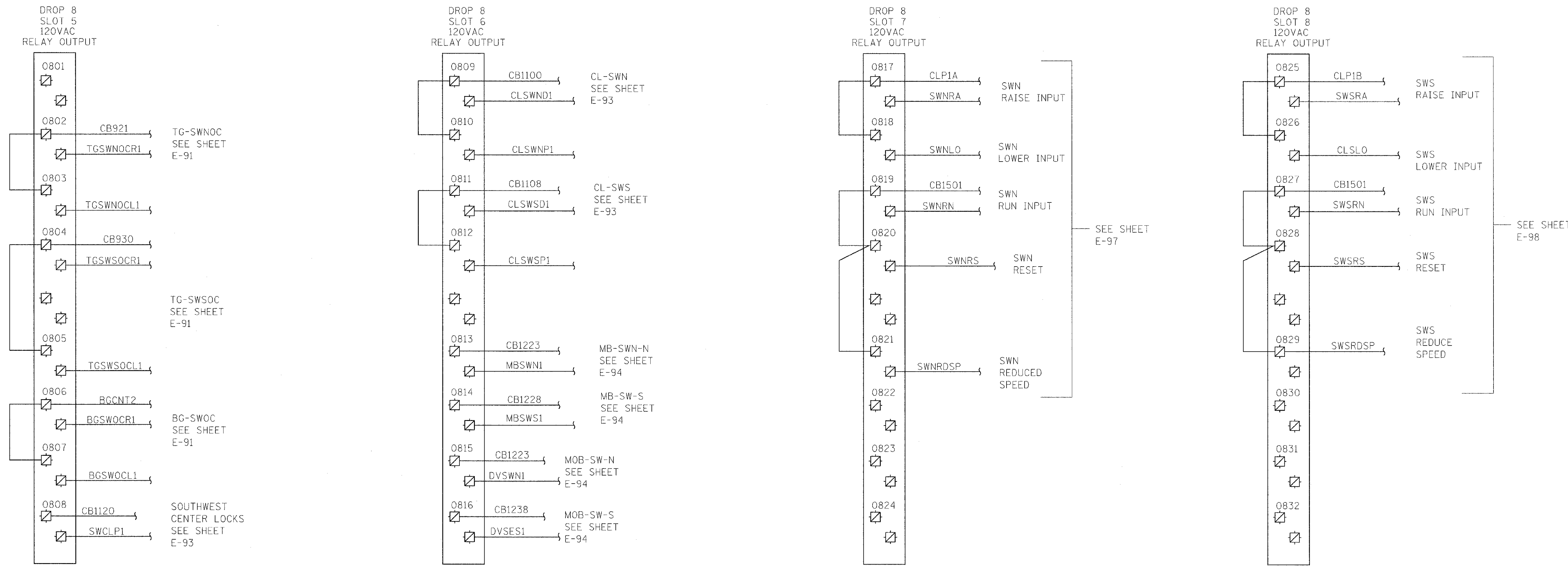
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	358

CONTRACT NO. 60D61

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

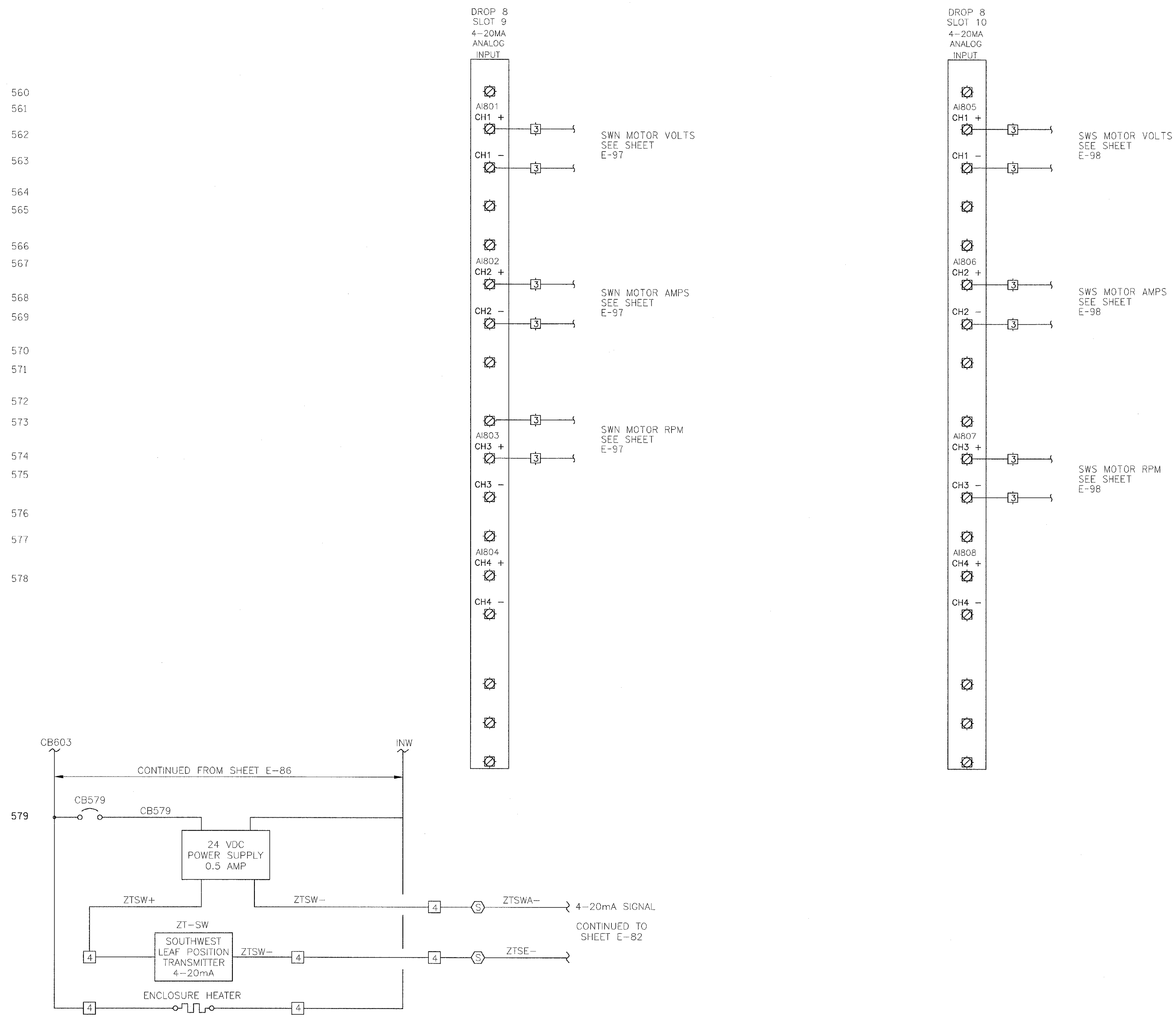
NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.



DROP 8 SOUTHWEST PLC I/O CABINET

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BRIDGE CONTROL SCHEMATIC DIAGRAM EASTBOUND - SHEET 9**	F.A.P RTE. 389	SECTION 2424-2B-R
	FILE NAME = D160d81-sht-elc-88.dgn	DRAWN - S. SHARMA	REVISED -			COUNTY COOK	TOTAL SHEETS 398 / SHEET NO. 359
	PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -		SCALE: AS SHOWN / SHEET NO. E-88 OF E-125 SHEETS / STA. 379+06.09 TO STA. 382+45.28	CONTRACT NO. 60D61	
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -			FED. ROAD DIST. NO. 1 / ILLINOIS / FED. AID PROJECT	



SOUTHWEST LEAF POSITION TRANSMITTER

DROP 8 SOUTHWEST PLC I/O CABINET

NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -
	FILE NAME = D160d61-sht-elc-89.dgn	DRAWN - S. SHARMA	REVISED -
	PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE CONTROL SCHEMATIC DIAGRAM
EASTBOUND - SHEET 10

SCALE: AS SHOWN | SHEET NO. E-89 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

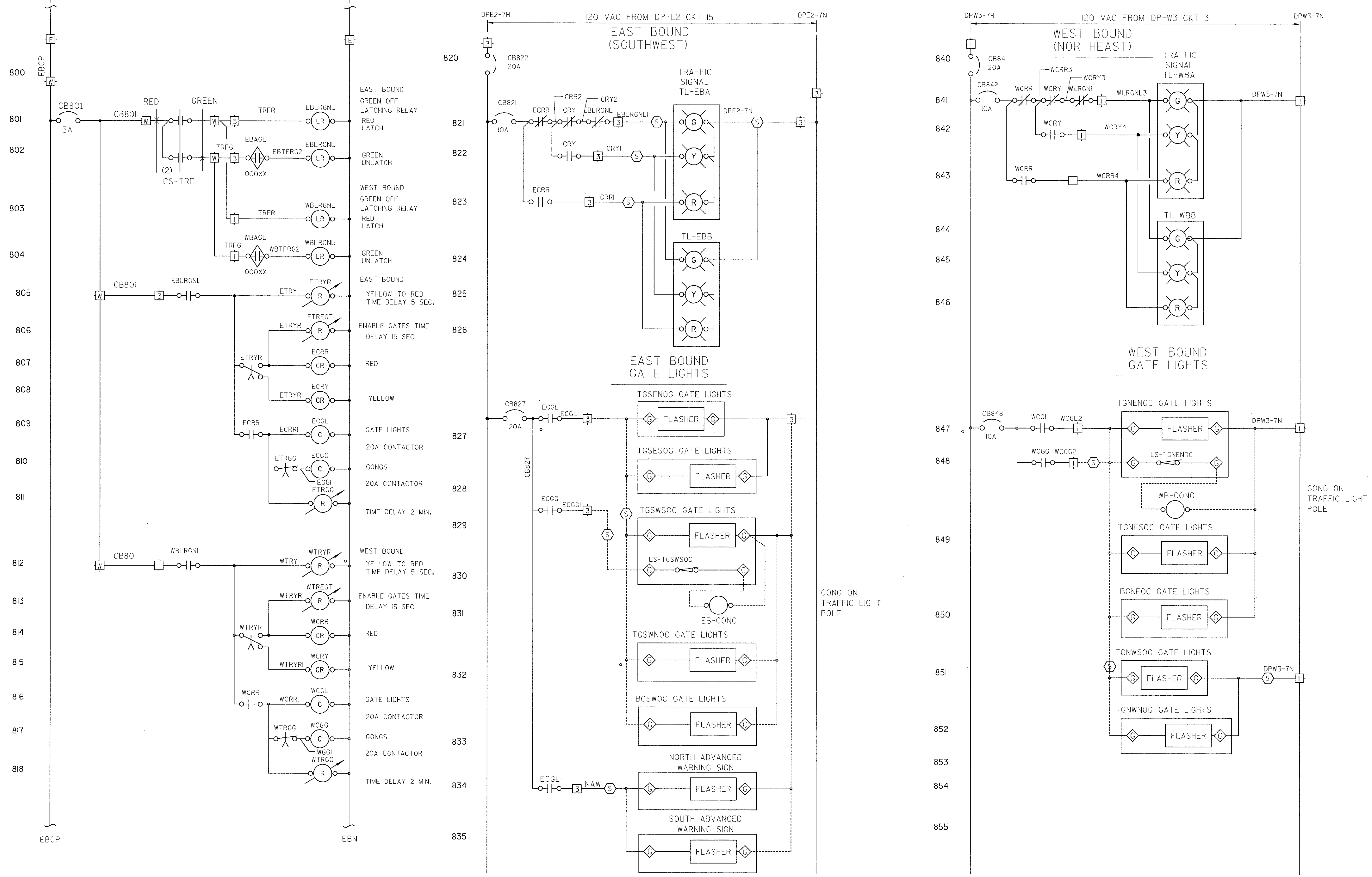
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	360

CONTRACT NO. 60D61

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.



TRAFFIC SIGNAL CONTROL

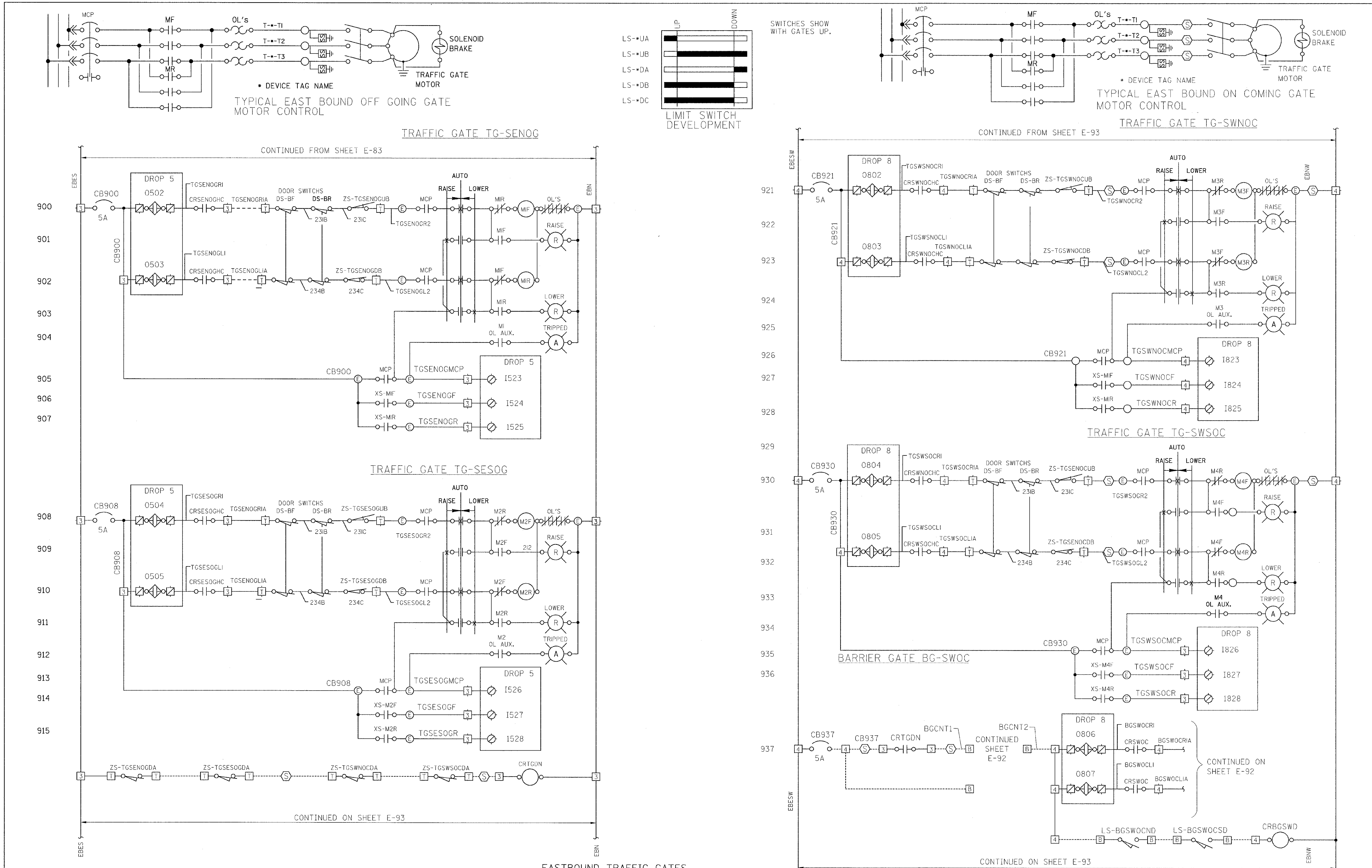
PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	FILE NAME = D162d61-sht-elc-90.dgn	DRAWN - S. SHARMA	REVISED -	
	PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -	
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

BRIDGE CONTROL SCHEMATIC DIAGRAM
EASTBOUND - SHEET 11

SCALE: AS SHOWN | SHEET NO. E-90 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	361
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



PB Americas, Inc.
230 WEST MONROE STREET, SUITE 900
CHICAGO, IL. 60606

USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -	
FILE NAME = D160d61-sht-elc-91.dgn	DRAWN - S. SHARMA	REVISED -	
PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -	
PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

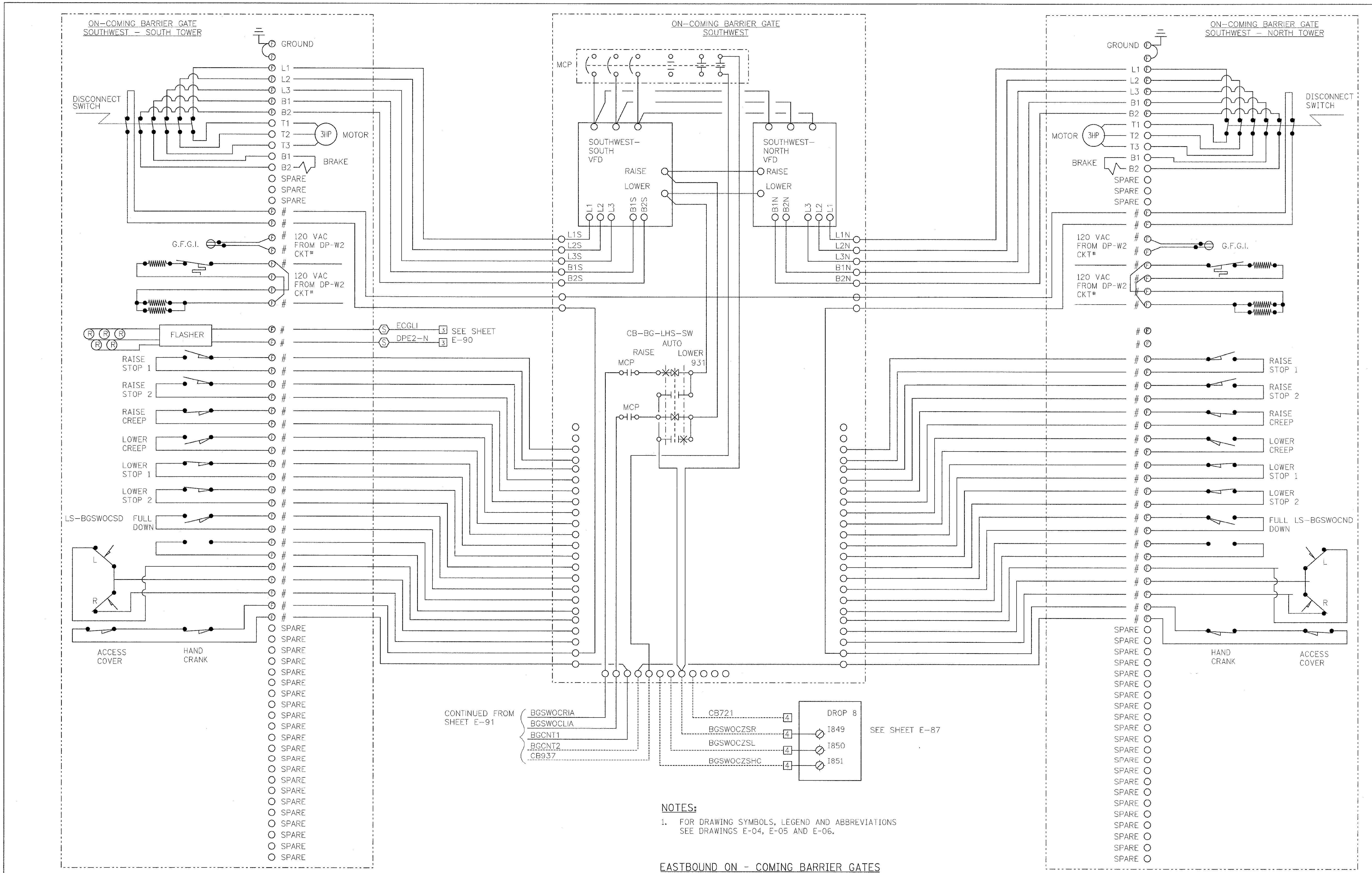
BRIDGE CONTROL SCHEMATIC DIAGRAM
EASTBOUND - SHEET 12

SCALE: AS SHOWN | SHEET NO. E-91 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	362

CONTRACT NO. 60D61

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



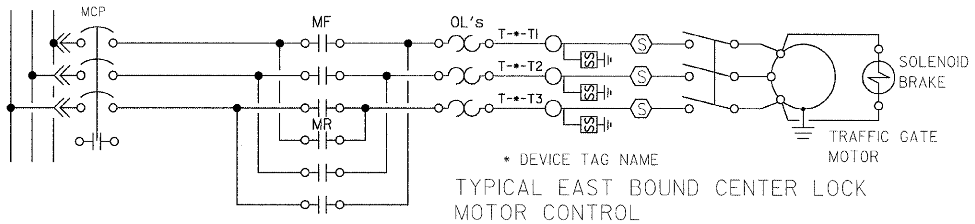
NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.

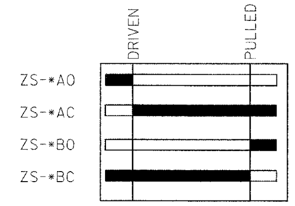
EASTBOUND ON - COMING BARRIER GATES

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BRIDGE CONTROL SCHEMATIC DIAGRAM EASTBOUND - SHEET 13**
	FILE NAME = 0160d61-sht-elc-92.dgn	DRAWN - S. SHARMA	REVISED -		
	PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -		
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -		SCALE: AS SHOWN / SHEET NO. E-92 OF E-125 SHEETS / STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	363
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



TYPICAL EAST BOUND CENTER LOCK MOTOR CONTROL



CENTER LOCK LIMIT SWITCH DEVELOPMENT

SWITCHES SHOWN WITH LOCK BAR DRIVEN.

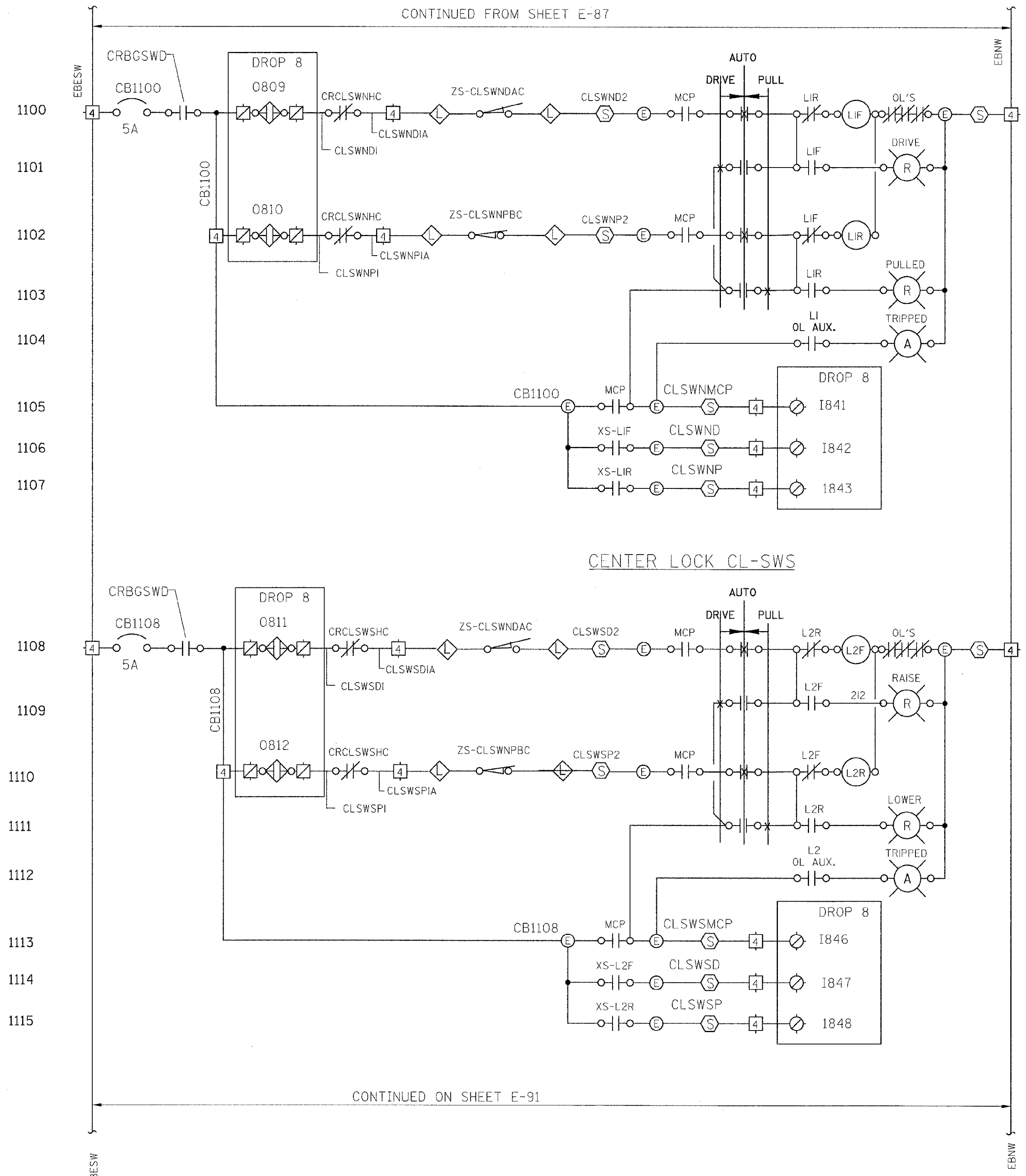
* ZS TAG NAME

CLSWNP = CENTER LOCK SOUTHWEST NORTH PULLED
CLSWND = CENTER LOCK SOUTHWEST NORTH DRIVEN
CLSWSP = CENTER LOCK SOUTHWEST SOUTH PULLED
CLSWSD = CENTER LOCK SOUTHWEST SOUTH DRIVEN

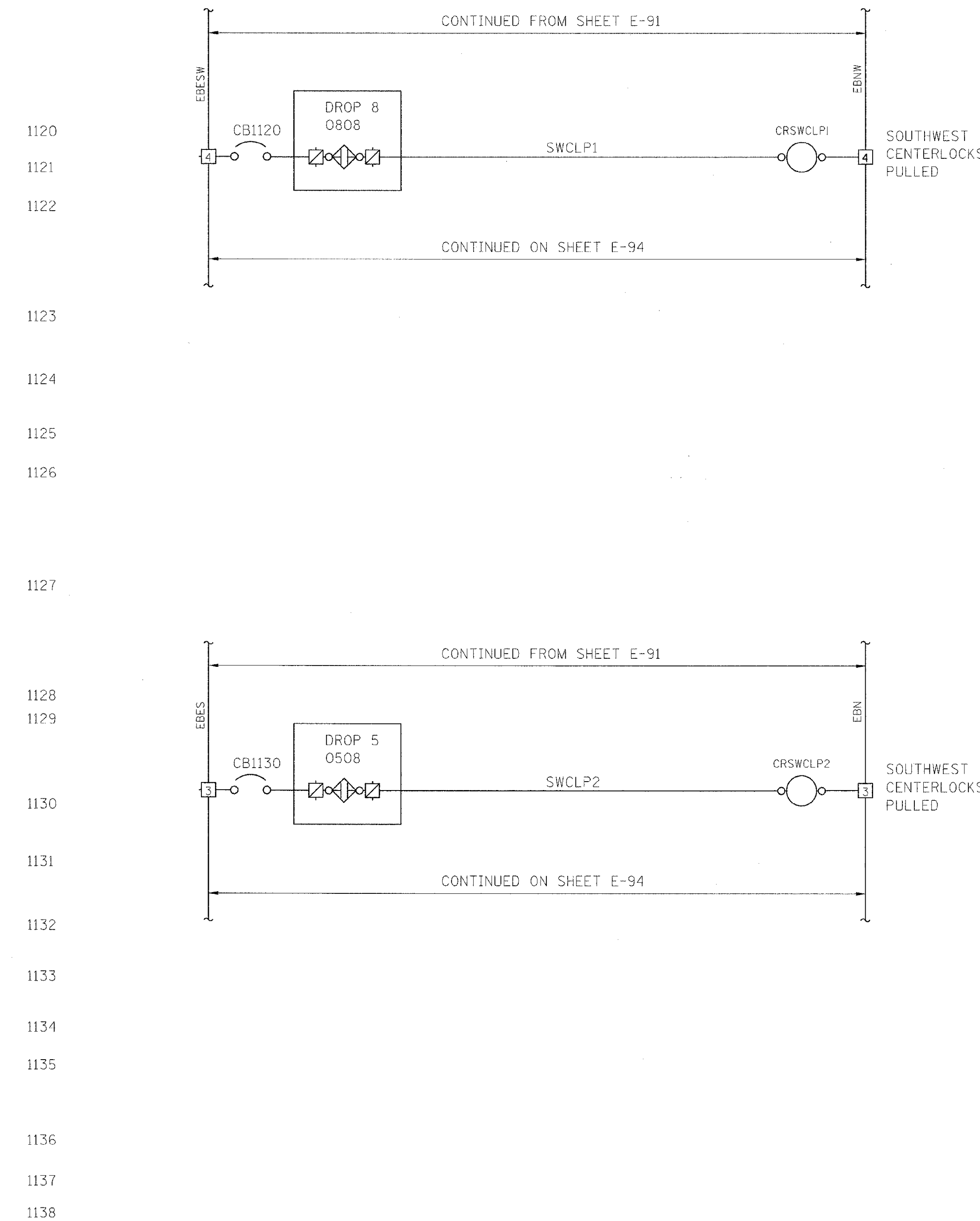
NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.

CENTER LOCK CL-SWN



EASTBOUND SOUTHWEST LEAF CENTER LOCKS



PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	FILE NAME = D162d61-sht-elc-93.dgn	DRAWN - S. SHARMA	REVISED -	
	PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -	
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

BRIDGE CONTROL SCHEMATIC DIAGRAM
EASTBOUND - SHEET 14

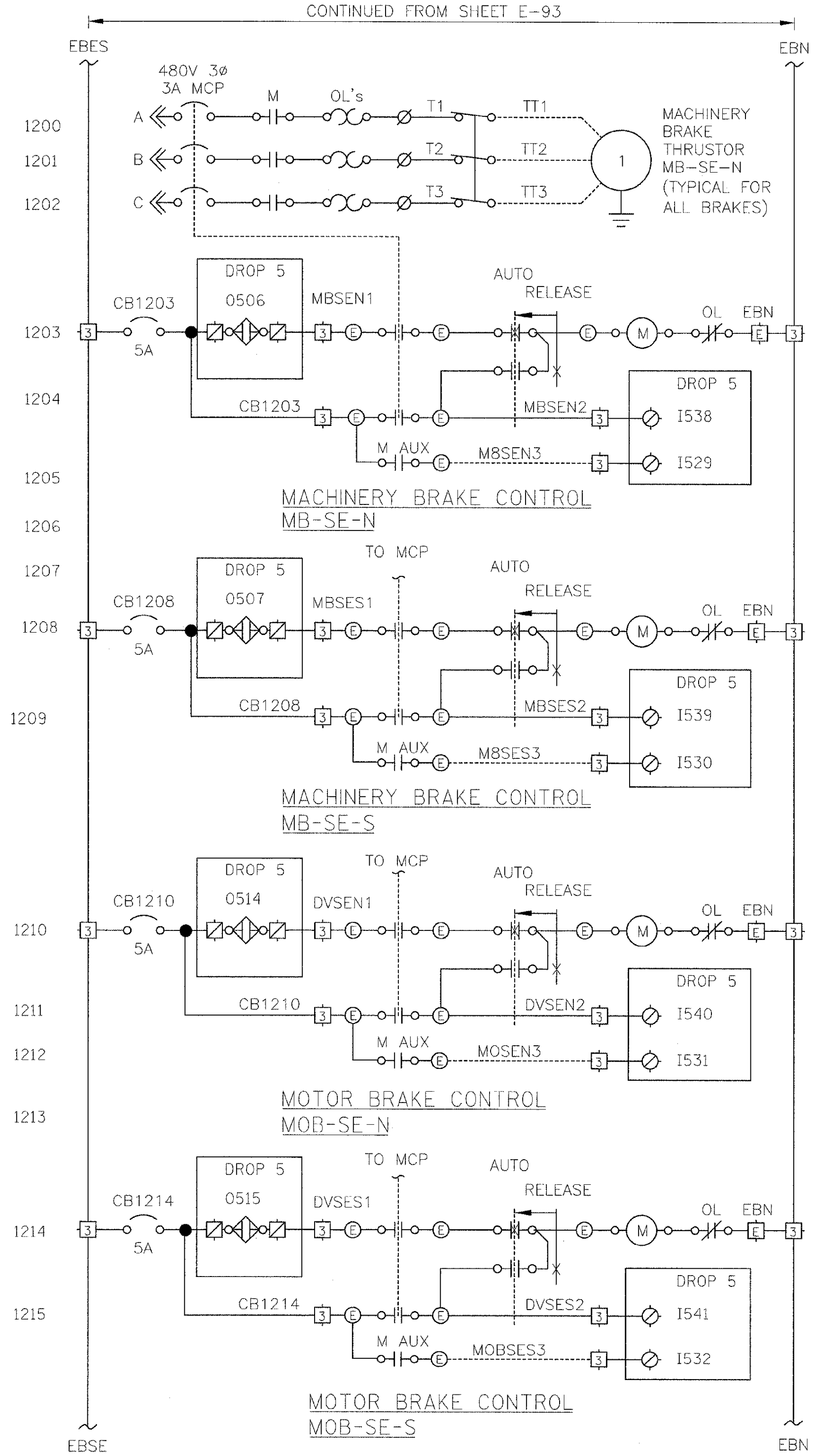
SCALE: AS SHOWN | SHEET NO. E-93 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	364
		CONTRACT NO. 60D61		

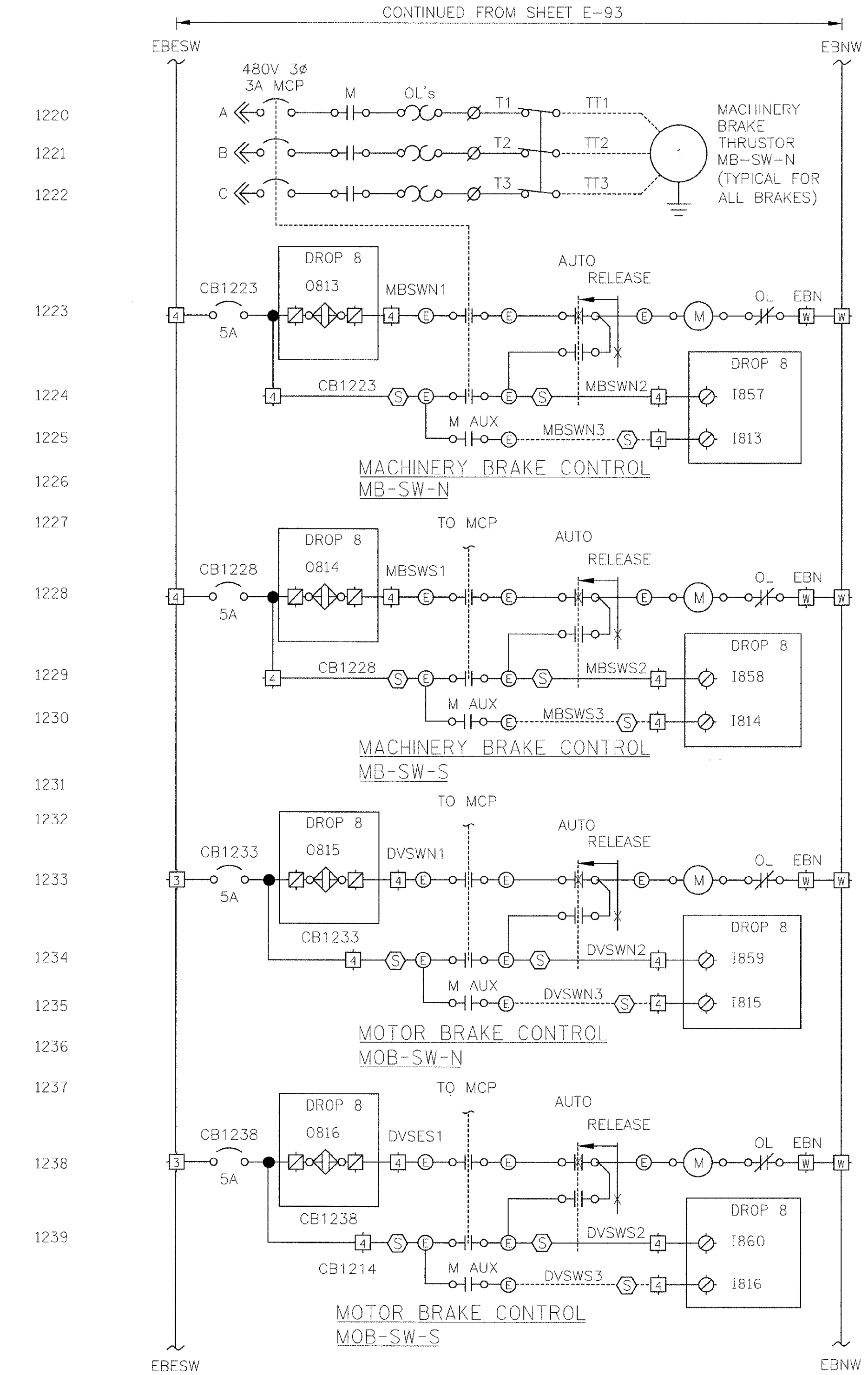
FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.



EASTBOUND SOUTHEAST
MACHINERY AND MOTOR BRAKES



EASTBOUND SOUTHWEST
MACHINERY AND MOTOR BRAKES

PB Americas, Inc.
230 WEST MONROE STREET,
SUITE 900
CHICAGO, IL. 60606

USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -	
FILE NAME = D162d61-sht-elc-94.dgn	DRAWN - S. SHARMA	REVISED -	
PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -	
PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE CONTROL SCHEMATIC DIAGRAM
EASTBOUND - SHEET 15

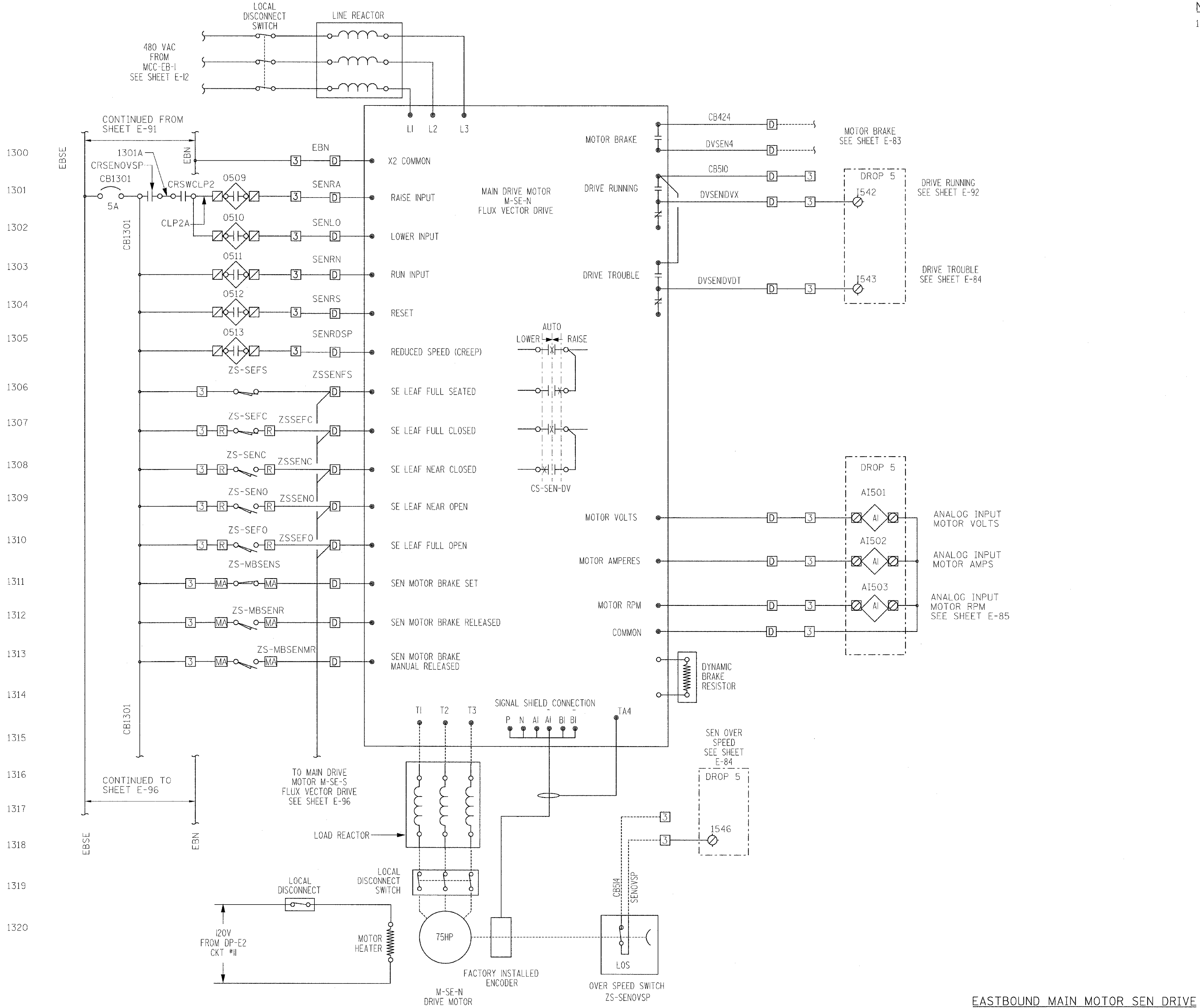
SCALE: AS SHOWN | SHEET NO. E-94 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	365
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.



EASTBOUND MAIN MOTOR SEN DRIVE

PB Americas, Inc.
230 WEST MONROE STREET,
SUITE 900
CHICAGO, IL. 60606

USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -	
FILE NAME = 0160d61-sht-elc-95.dgn	DRAWN - S. SHARMA	REVISED -	
PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -	
PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE CONTROL SCHEMATIC DIAGRAM
EASTBOUND - SHEET 16

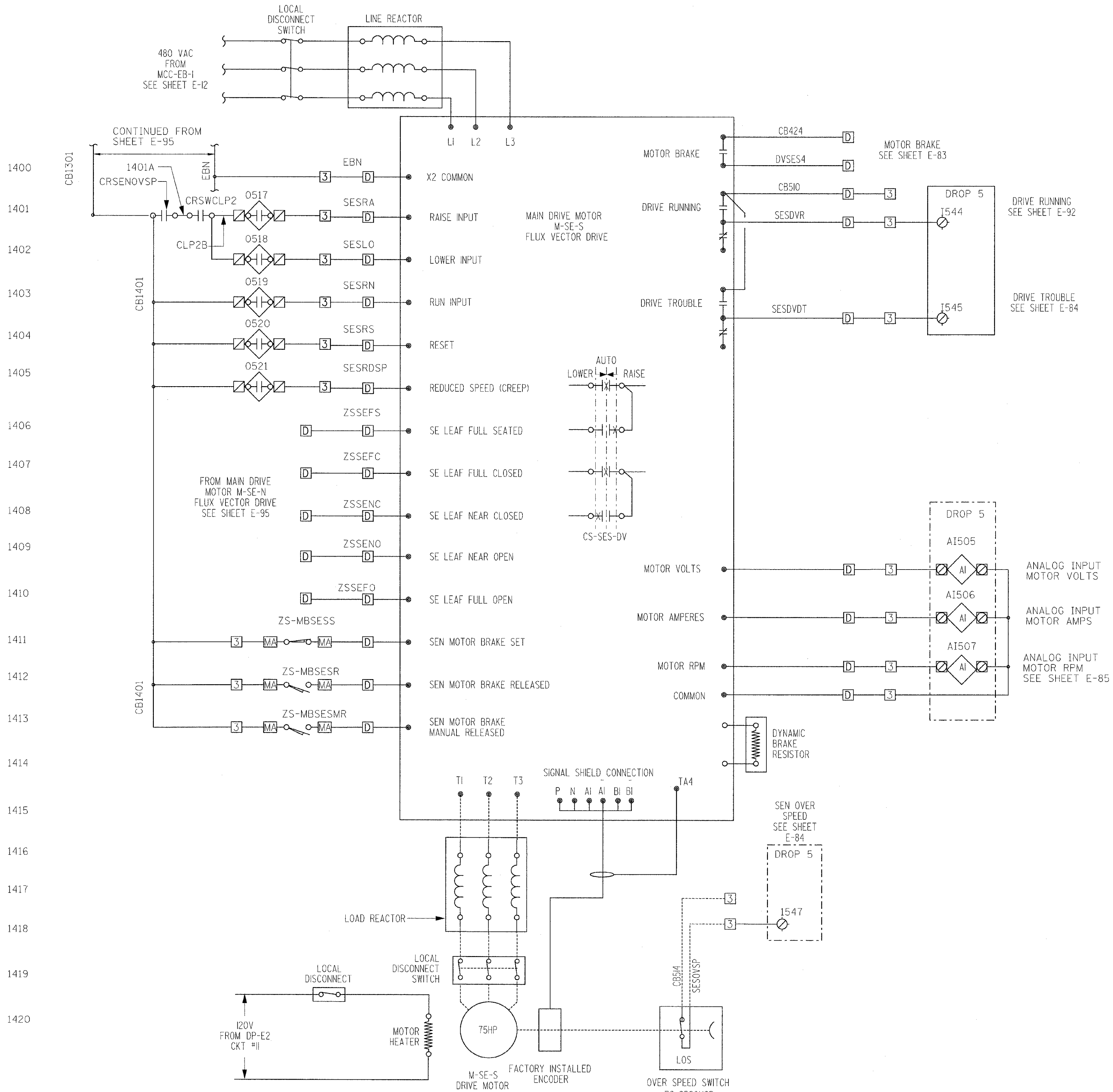
SCALE: AS SHOWN | SHEET NO. E-95 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	366
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.



EASTBOUND MAIN MOTOR SES DRIVE

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -
	FILE NAME = D160d61-sht-ele-96.dgn	DRAWN - S. SHARMA	REVISED -
	PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE CONTROL SCHEMATIC DIAGRAM
EASTBOUND - SHEET 17

SCALE: AS SHOWN | SHEET NO. E-96 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

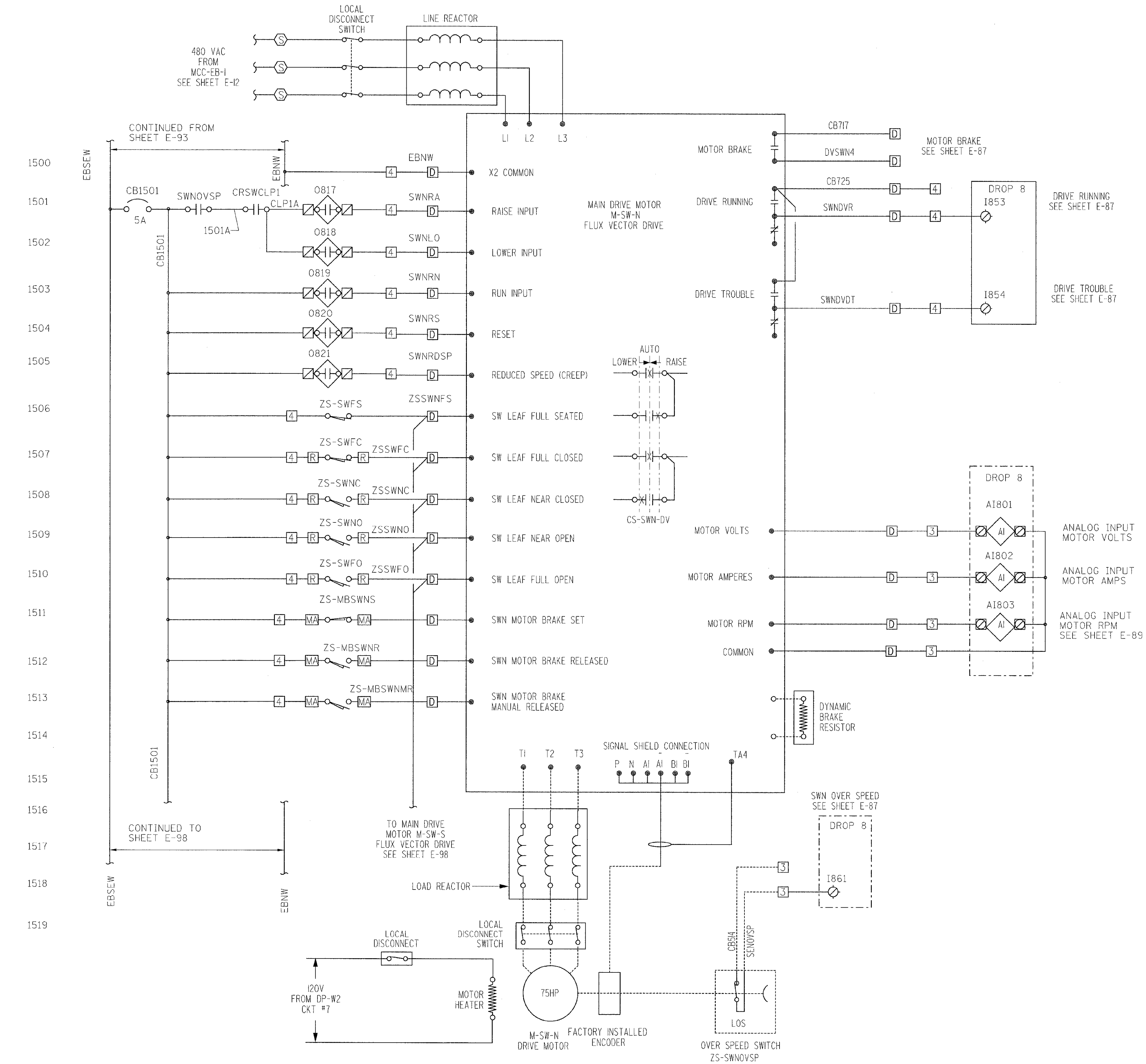
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	367

CONTRACT NO. 60D61

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.



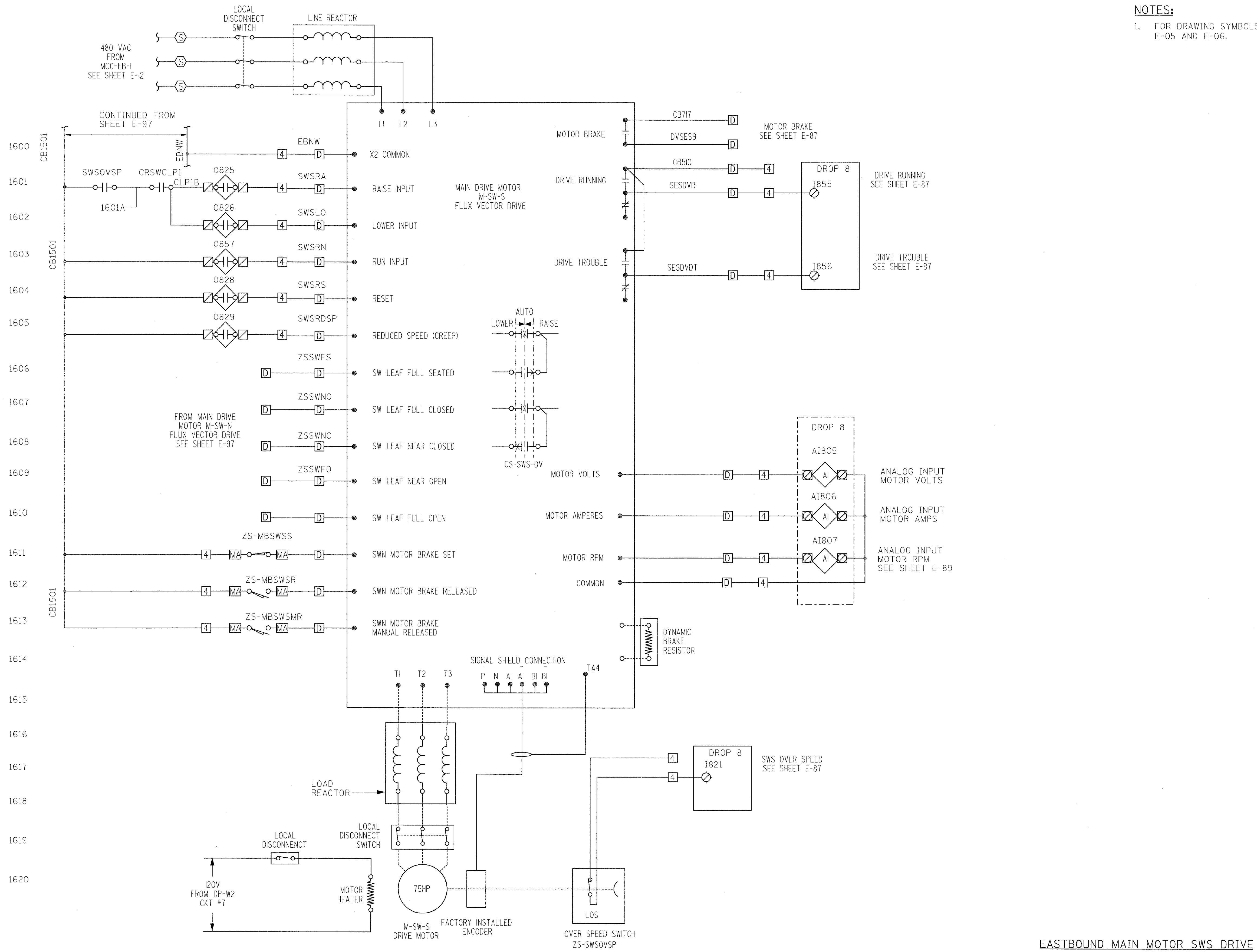
EASTBOUND MAIN MOTOR SWN DRIVE

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma FILE NAME = D162d61-sht-elc-97.dgn PLOT SCALE = NONE PLOT DATE = 5/7/2009	DESIGNED - B. CROUTHAMEL DRAWN - S. SHARMA CHECKED - S. STERN DATE - MAY 8, 2009	REVISED - REVISED - REVISED - REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BRIDGE CONTROL SCHEMATIC DIAGRAM EASTBOUND - SHEET 18** SCALE: AS SHOWN | SHEET NO. E-97 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	368
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.



EASTBOUND MAIN MOTOR SWS DRIVE

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	FILE NAME = 0160d61-sht-elc-98.dgn	DRAWN - S. SHARMA	REVISED -	
	PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -	
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

BRIDGE CONTROL SCHEMATIC DIAGRAM
EASTBOUND - SHEET 19

SCALE: AS SHOWN	SHEET NO. E-98 OF E-125 SHEETS	STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	369
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

EAST BOUND CONTROL DESK

DROP 1 SLOT 1
120VAC 16 PT. INPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
IN 0	I001	EBCP	EBCP
IN 1	I002	PB-ESTOP	PBESTOP
IN 2	I003	CS-CSEL-B	CS-CSEL-1
IN 3	I004	CS-CSEL-B	CS-CSEL-2
IN 4	I005	CS-LCK-SW	CS-LCK-SW-1
IN 5	I006	CS-LCK-SW	CS-LCK-SW-2
IN 6	I007	CS-SP-SW	CS-SP-SW-1
IN 7	I008	CS-SP-SW	CS-SP-SW-2
IN 8	I009	CS-SP-SE	CS-SP-SE-1
IN 9	I010	CS-SP-SE	CS-SP-SE-2
IN10	I011	PB-STOP-SW	PBSTOPSW
IN11	I012	PBL-UVSW	PBUVSW
IN12	I013	PB-STOP-SE	PBSTOPSE
IN13	I014	PBL-UVSE	PBUVSE
IN14	I015	KS-DRFT-SW	KSDRFTSW
IN15	I016	KS-DRFT-SE	KSDRFTSE

DROP 1 SLOT 2
120VAC 16 PT. INPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
IN 0	I017	BP-TRF-EB	BPTRFEB
IN 1	I018	BP-TG-EB	BPTGEB
IN 2	I019	BP-BG-EB	BPBGEB
IN 3	I020	BP-LCK-EB	BPLCKEB
IN 4	I021	CS-TG-SW	CS-TG-SW-1
IN 5	I022	CS-TG-SW	CS-TG-SW-2
IN 6	I023	CS-TG-SE	CS-TG-SE-1
IN 7	I024	CS-TG-SE	CS-TG-SE-2
IN 8	I025	CS-BG-SW	CS-BG-SW-1
IN 9	I026	CS-BG-SW	CS-BG-SW-2
IN10	I027	SPARE	
IN11	I028	SPARE	
IN12	I029	SPARE	
IN13	I030	SPARE	
IN14	I031	SPARE	
IN15	I032	SPARE	

DROP 1 SLOT 3
120VAC 16 PT. RELAY OUTPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
OUT 0	0001		
OUT 1	0002		
OUT 2	0003	IL-PLC-CPU-G-1	
OUT 3	0004	IL-PLC-CPU-R-1	
OUT 4	0005	IL-PLC-CPU-G-2	
OUT 5	0006	IL-PLC-CPU-R-2	
OUT 6	0007	PBL-UVSW	
OUT 7	0008	PBL-UVSE	
OUT 8	0009	IL-DRV-SWNR	
OUT 9	0010	IL-DRV-SWNF	
OUT10	0011	IL-DRV-SWSR	
OUT11	0012	IL-DRV-SWSF	
OUT12	0013	IL-DRV-SENR	
OUT13	0014	IL-DRV-SENF	
OUT14	0015	IL-DRV-SESR	
OUT15	0016	IL-DRV-SESF	

DROP 1 SLOT 4
120VAC 16 PT. RELAY OUTPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
OUT 0	0017	IL-SWS-FO-G	
OUT 1	0018	IL-SWS-NO-A	
OUT 2	0019	IL-SWS-NC-A	
OUT 3	0020	IL-SWS-FC-G	
OUT 4	0021	IL-SWS-FS-W	
OUT 5	0022	IL-SES-FO-G	
OUT 6	0023	IL-SES-NO-A	
OUT 7	0024	IL-SES-NC-A	
OUT 8	0025	IL-SES-FC-G	
OUT 9	0026	IL-SES-FS-W	
OUT10	0027	IL-LCK-SWS-G	
OUT11	0028	IL-LCK-SWS-R	
OUT12	0029	IL-LCK-SWS-B	
OUT13	0030	IL-LCK-SWN-G	
OUT14	0031	IL-LCK-SWN-R	
OUT15	0032	IL-LCK-SWN-B	

DROP 1 SLOT 5
120VAC 16 PT. RELAY OUTPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
OUT 0	0033	IL-MB-SWN-G	
OUT 1	0034	IL-MB-SWN-R	
OUT 2	0035	IL-MB-SWN-B	
OUT 3	0036	IL-MB-SEN-G	
OUT 4	0037	IL-MB-SEN-R	
OUT 5	0038	IL-MB-SEN-B	
OUT 6	0039	IL-MB-SWS-G	
OUT 7	0040	IL-MB-SWS-R	
OUT 8	0041	IL-MB-SWS-B	
OUT 9	0042	IL-MB-SES-G	
OUT10	0043	IL-MB-SES-R	
OUT11	0044	IL-MB-SES-B	
OUT12	0045	SPARE	
OUT13	0046	SPARE	
OUT14	0047	SPARE	
OUT15	0048	SPARE	

DROP 1 SLOT 6
120VAC 16 PT. RELAY OUTPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
OUT 0	0049	IL-MOB-SWN-G	
OUT 1	0050	IL-MOB-SWN-R	
OUT 2	0051	IL-MOB-SWN-B	
OUT 3	0052	IL-MOB-SEN-G	
OUT 4	0053	IL-MOB-SEN-R	
OUT 5	0054	IL-MOB-SEN-B	
OUT 6	0055	IL-MOB-SWS-G	
OUT 7	0056	IL-MOB-SWS-R	
OUT 8	0057	IL-MOB-SWS-B	
OUT 9	0058	IL-MOB-SES-G	
OUT10	0059	IL-MOB-SES-R	
OUT11	0060	IL-MOB-SES-B	
OUT12	0061	SPARE	
OUT13	0062	SPARE	
OUT14	0063	SPARE	
OUT15	0064	SPARE	

NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.
2. ASTERISKS DENOTE THE CONTRACTOR SHALL CONNECT I/O POINTS IN THE SLOT AND POSITIONS INDICATED. CONTRACTOR SHALL REVISE ADDRESSES AS REQUIRED FOR THE EQUIPMENT PROVIDED AND FILL THE ADDRESS AND WIRE BLOCK ON THIS DRAWING "AS-BUILT".

DROP 1 SLOT 7
0-10VDC ANALOG OUTPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
CH1+	OUT1+	SPDS-DWS	
CH1-	OUT1-	SPDS-DWS	
CH2+	OUT2+	SPDS-DES	
CH2-	OUT2-	SPDS-DES	
CH3+	OUT3+	RPM-MOT-SWN	
CH3-	OUT3-	RPM-MOT-SWN	
CH4+	OUT4+	RPM-MOT-SWS	
CH4-	OUT4-	RPM-MOT-SWS	
CH5+	OUT5+	RPM-MOT-SEN	
CH5-	OUT5-	RPM-MOT-SEN	
CH6+	OUT6+	RPM-MOT-SES	
CH6-	OUT6-	RPM-MOT-SES	
CH7+	OUT7+	SPARE	
CH7-	OUT7-	SPARE	
CH8+	OUT8+	SPARE	
CH8-	OUT8-	SPARE	

DROP 1 SLOT 8
0-10VDC ANALOG OUTPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
CH1+	OUT9+	VM-MOT-SWN	
CH1-	OUT9-	VM-MOT-SWN	
CH2+	OUT10+	AM-MOT-SWN	
CH2-	OUT10-	AM-MOT-SWN	
CH3+	OUT11+	VM-MOT-SWS	
CH3-	OUT11-	VM-MOT-SWS	
CH4+	OUT12+	AM-MOT-SWS	
CH4-	OUT12-	AM-MOT-SWS	
CH5+	OUT13+	VM-MOT-SEN	
CH5-	OUT13-	VM-MOT-SEN	
CH6+	OUT14+	AM-MOT-SEN	
CH6-	OUT14-	AM-MOT-SEN	
CH7+	OUT15+	VM-MOT-SES	
CH7-	OUT15-	VM-MOT-SES	
CH8+	OUT16+	AM-MOT-SES	
CH8-	OUT16-	AM-MOT-SES	

EAST BOUND DROP 5 SOUTHEAST PLC I/O CABINET

DROP 5 SLOT 2
120VAC 16 PT. INPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
IN 0	I501	TGSENOGU	
IN 1	I502	TGSENOGD	
IN 2	I503	TGSENOGHC	
IN 3	I504	TGSESOGU	
IN 4	I505	TGSESOGD	
IN 5	I506	TGSESOGHC	
IN 6	I507	ZS-MOBSENS	
IN 7	I508	ZS-MOBSENR	
IN 8	I509	ZS-MOBSENMR	
IN 9	I510	ZS-MOBSESS	
IN10	I511	ZS-MOBSESR	
IN11	I512	ZS-MOBSESMR	
IN12	I513	ECRR	
IN13	I514	ETREGT	
IN14	I515	SPARE	
IN15	I516	SPARE	

DROP 5 SLOT 1
120VAC 16 PT. INPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
IN 0	I517	ZS-MBSENS	
IN 1	I518	ZS-MBSENR	
IN 2	I519	ZS-MBSENMR	
IN 3	I520	ZS-MBSESS	
IN 4	I521	ZS-MBSESR	
IN 5	I522	ZS-MBSESMR	
IN 6	I523	TGSENOGMCP	
IN 7	I524	TGSENOGF	
IN 8	I525	TGSENOGR	
IN 9	I526	TGSESOGMCP	
IN10	I527	TGSESOGF	
IN11	I528	TGSESOGR	
IN12	I529	SPARE	
IN13	I530	SPARE	
IN14	I531	SPARE	
IN15	I532	SPARE	

DROP 5 SLOT 3
120VAC 16 PT. INPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
IN 0	I533	ZS-SEFS	
IN 1	I534	ZS-SEFC	
IN 2	I535	ZS-SENC	
IN 3	I536	ZS-SENO	
IN 4	I537	ZS-SEFO	
IN 5	I538	MB-SE-N-MCP	
IN 6	I539	MB-SE-S-MCP	
IN 7	I540	MOB-SE-N-MCP	
IN 8	I541	MOB-SE-S-MCP	
IN 9	I542	SENDVR	
IN10	I543	SENDVDT	
IN11	I544	SESDVR	
IN12	I545	SESDVDT	
IN13	I546	ZS-SENOVSP	
IN14	I547	ZS-SESOVSP	
IN15	I548	SPARE	

DROP 5 SLOT 4
120VAC 8 PT.
ISOLATED RELAY OUTPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
L1-0	0501	EBCP	
OUT 0		WATCH DOG	
L1-1	0502	CB900	
OUT 1		TGSENOGR	
L1-2	0503	CB900	
OUT 2		TGSENOGL	
L1-3	0504	CB908	
OUT 3		TGSESOGR	
L1-4	0505	CB908	
OUT 4		TGSESOGL	
L1-5	0506	CB1203	
OUT 5		MB-SE-N	
L1-6	0507	CB1208	
OUT 6		MB-SE-S	
L1-7	0508	CB1130	
OUT 7		SWCLP	

DROP 5 SLOT 5
120VAC 8 PT.
ISOLATED RELAY OUTPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
L1-0	0509	CLP2A	
OUT 0		SENRA	
L1-1	0510	CLP2A	
OUT 1		SENLO	
L1-2	0511	CB1301	
OUT 2		SENRN	
L1-3	0512	CB1301	
OUT 3		SENRS	
L1-4	0513	CB1301	
OUT 4		SENRDSP	
L1-5	0514		
OUT 5			
L1-6	0515		
OUT 6			
L1-7	0516		
OUT 7			

DROP 5 SLOT 6
120VAC 8 PT.
ISOLATED RELAY OUTPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
L1-0	0517	CLP2B	
OUT 0		SESRA	
L1-1	0518	CLP2B	
OUT 1		SESLO	
L1-2	0519	CB1301	
OUT 2		SESRN	
L1-3	0520	CB1301	
OUT 3		SESNRS	
L1-4	0521	CB1301	
OUT 4		SESRDSP	
L1-5	0522		
OUT 5			
L1-6	0523		
OUT 6			
L1-7	0524		
OUT 7			

DROP 5 SLOT 7
24VDC 4PT.
1-5VDC/4-20MADC ANALOG INPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
CH1+	AI501	V-MOT-SEN	
CH1-		V-MOT-SEN	
CH2+	AI502	A-MOT-SEN	
CH2-		A-MOT-SEN	
CH3+	AI503	RPM-MOT-SEN	
CH3-		RPM-MOT-SEN	
CH4+	AI504	ZT-SE	
CH4-		ZT-SE	

DROP 5 SLOT 8
24VDC 4PT.
1-5VDC/4-20MADC ANALOG INPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
CH1+	AI505	V-MOT-SES	
CH1-		V-MOT-SES	
CH2+	AI506	A-MOT-SES	
CH2-		A-MOT-SES	
CH3+	AI507	RPM-MOT-SES	
CH3-		RPM-MOT-SES	
CH4+	AI508		
CH4-			

EAST BOUND DROP 8 SOUTHWEST PLC I/O CABINET

DROP 8 SLOT 1
120VAC 16 PT. INPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
IN 0	I801	TGSWNOCU	
IN 1	I802	TGSWNOCD	
IN 2	I803	TGSWNOCHC	
IN 3	I804	TGSWSOCU	
IN 4	I805	TGSWSOCD	
IN 5	I806	TGSWSOCHC	
IN 6	I807	ZS-MOBSWNS	
IN 7	I808	ZS-MOBSWNR	
IN 8	I809	ZS-MOBSWNMR	
IN 9	I810	ZS-MOBSWSS	
IN10	I811	ZS-MOBSWSR	
IN11	I812	ZS-MOBSWSMR	
IN12	I813	SPARE	
IN13	I814	SPARE	
IN14	I815	SPARE	
IN15	I816	SPARE	

DROP 8 SLOT 2
120VAC 16 PT. INPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
IN 0	I817	ZS-MBSWNS	
IN 1	I818	ZS-MBSWNR	
IN 2	I819	ZS-MBSWNMR	
IN 3	I820	ZS-MBSWSS	
IN 4	I821	ZS-MBSWSR	
IN 5	I822	ZS-MBSWSMR	
IN 6	I823	TGSWNOGMCP	
IN 7	I824	TGSWNOGF	
IN 8	I825	TGSWNOGR	
IN 9	I826	TGSWSOGMCP	
IN10	I827	TGSWSOGF	
IN11	I828	TGSWSOGR	
IN12	I829	ZS-CLSWND	
IN13	I830	ZS-CLSWNP	
IN14	I831	ZS-CLSWNHC	
IN15	I832	SPARE	

DROP 8 SLOT 3
120VAC 16 PT. INPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
IN 0	I833	ZS-SWFS	
IN 1	I834	ZS-SWFC	
IN 2	I835	ZS-SWNC	
IN 3	I836	ZS-SWNO	
IN 4	I837	ZS-SWFO	
IN 5	I838	ZS-CLSWSD	
IN 6	I839	ZS-CLSWSP	
IN 7	I840	ZS-CLSWSHC	
IN 8	I841	CLSWNMCP	
IN 9	I842	CLSWND	
IN10	I843	CLSWNP	
IN11	I844	CLSWSMCP	
IN12	I845	CLSWSD	
IN13	I846	CLSWSP	
IN14	I847	SPARE	
IN15	I848	SPARE	

DROP 8 SLOT 4
120VAC 16 PT. INPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
IN 0	I849	BGSWOCU	
IN 1	I850	BGSWOCD	
IN 2	I851	BGSWOCHC	
IN 3	I852	SWNDVR	
IN 4	I853	SWNDVDT	
IN 5	I854	SWSDVR	
IN 6	I855	SWSDVDT	
IN 7	I856	MB-SW-N-MCP	
IN 8	I857	MB-SW-S-MCP	
IN 9	I858	MOB-SW-N-MCP	
IN10	I859	MOB-SW-S-MCP	
IN11	I860	ZS-SWNOVSP	
IN12	I861	ZS-SWSOVSP	
IN13	I862	SPARE	
IN14	I863	SPARE	
IN15	I864	SPARE	

DROP 8 SLOT 5
120VAC 8 PT.
ISOLATED RELAY OUTPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
L1-0	0801	SPARE	
OUT 0		SPARE	
L1-1	0802	CB921	
OUT 1		TGSWNOCR	
L1-2	0803	CB921	
OUT 2		TGSWNOCL	
L1-3	0804	CB930	
OUT 3		TGSWSOCR	
L1-4	0808	CB930	
OUT 4		TGSWSOCL	
L1-5	0806	CB937	
OUT 5		BGSWOCR	
L1-6	0807	CB937	
OUT 6		BGSWOCL	
L1-7	0808	SPARE	
OUT 7		SPARE	

DROP 8 SLOT 6
120VAC 8 PT.
ISOLATED RELAY OUTPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
L1-0	0809	CB1100	
OUT 0		CLSWND	
L1-1	0810	CB1100	
OUT 1		CLSWNP	
L1-2	0811	CB1108	
OUT 2		CLSWSD	
L1-3	0812	CB1108	
OUT 3		CLSWSP	
L1-4	0813	CB1223	
OUT 4		MB-SW-N	
L1-5	0814	CB1228	
OUT 5		MB-SW-S	
L1-6	0815	SPARE	
OUT 6		SPARE	
L1-7	0816	SPARE	
OUT 7		SPARE	

DROP 8 SLOT 7
120VAC 8 PT.
ISOLATED RELAY OUTPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
L1-0	0817	CLP1A	
OUT 0		SWNRA	
L1-1	0818	CLP1A	
OUT 1		SWNLO	
L1-2	0819	CB1501	
OUT 2		SWNRN	
L1-3	0820	CB1501	
OUT 3		SWNRS	
L1-4	0821	CB1501	
OUT 4		SWNRDSP	
L1-5	0822		
OUT 5			
L1-6	0823		
OUT 6			
L1-7	0824		
OUT 7			

DROP 8 SLOT 8
120VAC 8 PT.
ISOLATED RELAY OUTPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
L1-0	0825	CLP1B	
OUT 0		SWSRA	
L1-1	0826	CLP1B	
OUT 1		SWSLO	
L1-2	0827	CB1501	
OUT 2		SWSRN	
L1-3	0828	CB1501	
OUT 3		SWSNRS	
L1-4	0829	CB1501	
OUT 4		SWSRDSP	
L1-5	0830		
OUT 5			
L1-6	0831		
OUT 6			
L1-7	0832		
OUT 7			

DROP 8 SLOT 9
24VDC 4PT.
1-5VDC/4-20MADC ANALOG INPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
CH1+	AI801	V-MOT-SWN	
CH1-		V-MOT-SWN	
CH2+	AI802	A-MOT-SWN	
CH2-		A-MOT-SWN	
CH3+	AI803	RPM-MOT-SWN	
CH3-		RPM-MOT-SWN	
CH4+	AI804	ZT-SW	
CH4-		ZT-SW	

DROP 8 SLOT 10
24VDC 4PT.
1-5VDC/4-20MADC ANALOG INPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
CH1+	AI805	V-MOT-SWS	
CH1-		V-MOT-SWS	
CH2+	AI806	A-MOT-SWS	
CH2-		A-MOT-SWS	
CH3+	AI807	RPM-MOT-SWS	
CH3-		RPM-MOT-SWS	
CH4+	AI808		
CH4-			

NOTES:

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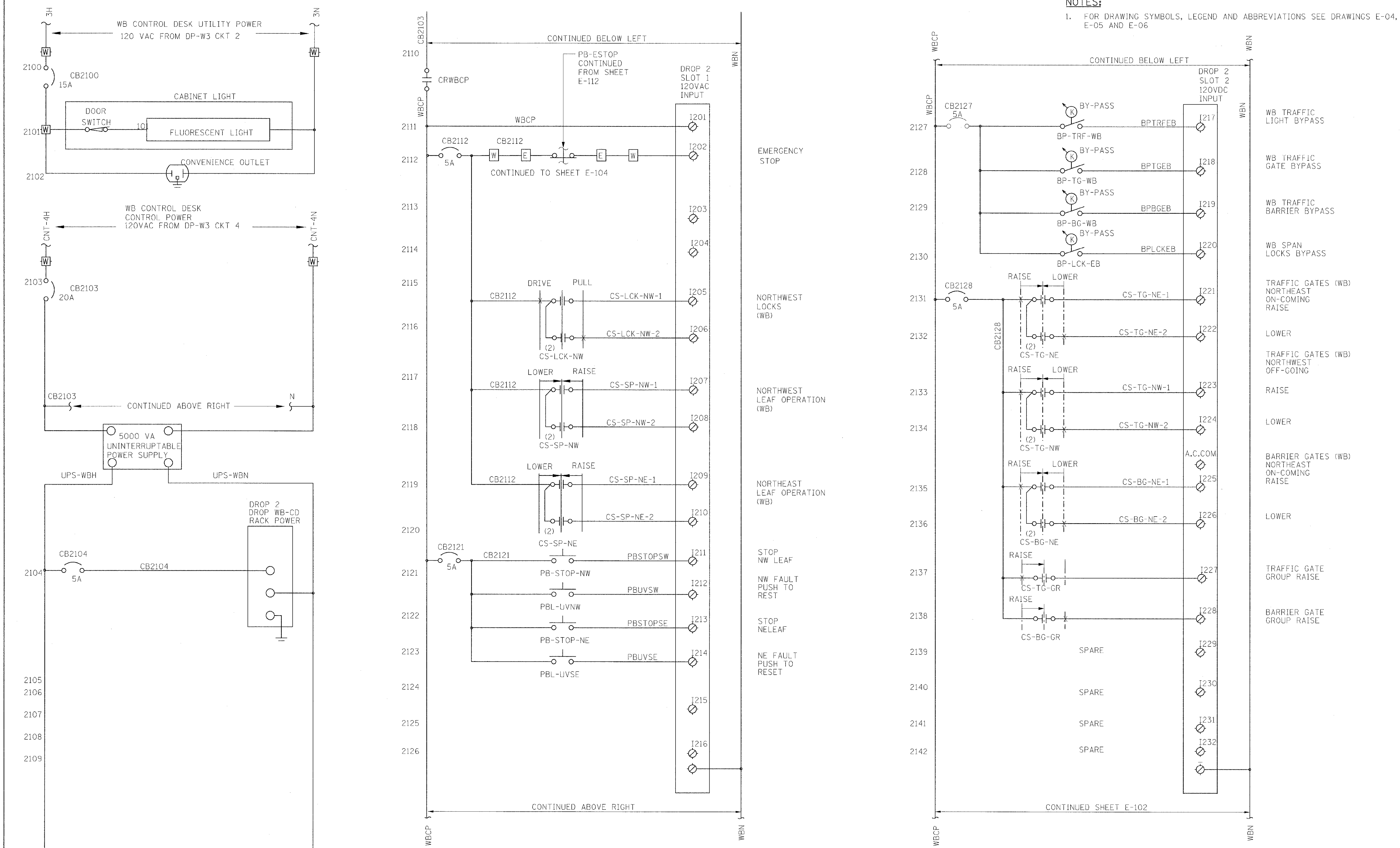
1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06



WESTBOUND CONTROL DESK

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL 60606	USER NAME = sharma FILE NAME = 0162d61-sht-ele-101.dgn PLOT SCALE = NONE PLOT DATE = 5/7/2009	DESIGNED - B. CROUTHAMEL DRAWN - S. SHARMA CHECKED - S. STERN DATE - MAY 8, 2009	REVISED - REVISED - REVISED - REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**	**BRIDGE CONTROL SCHEMATIC DIAGRAM** **WESTBOUND - SHEET 1** SCALE: AS SHOWN · SHEET NO. E-101 OF E-125 SHEETS · STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	372
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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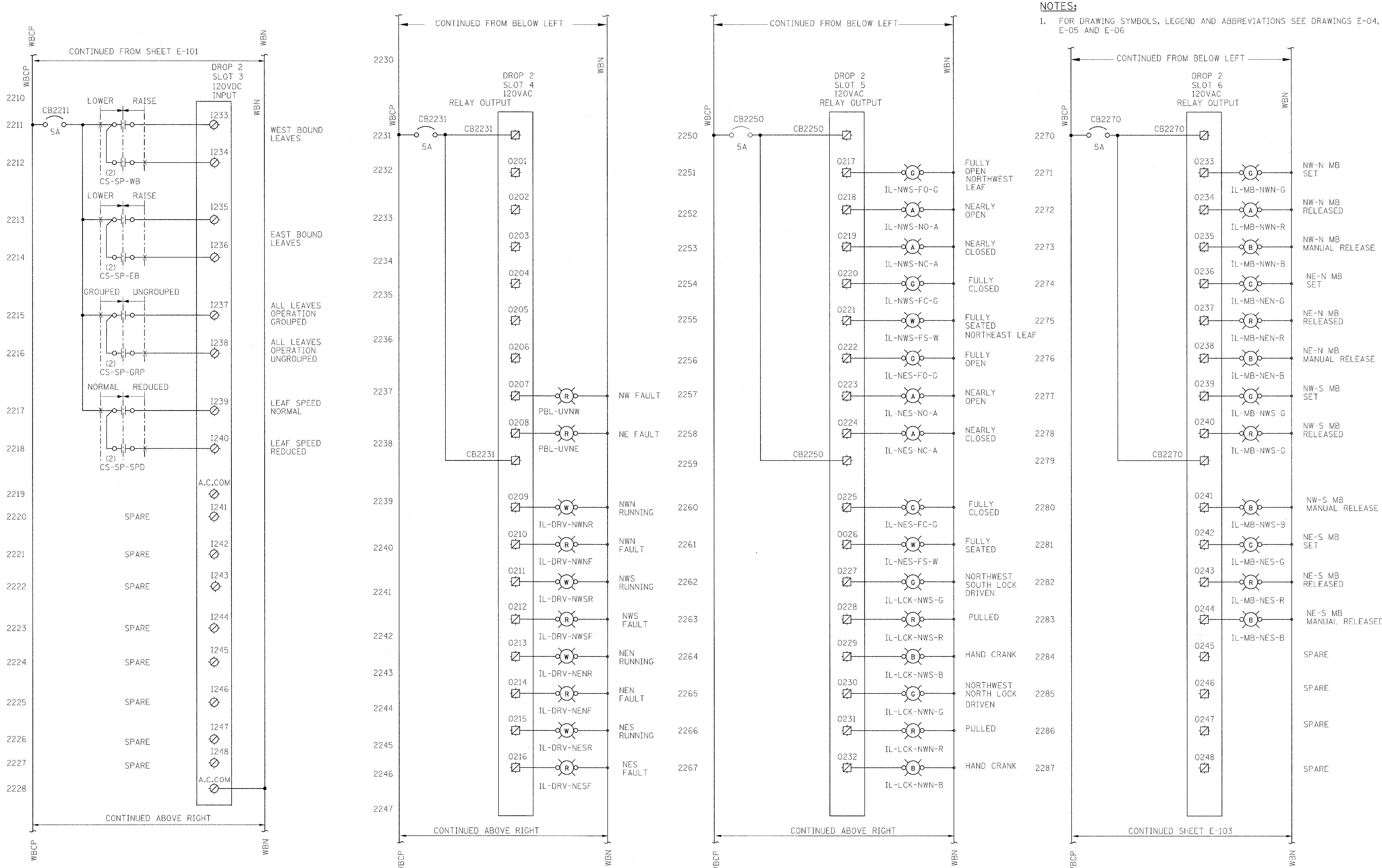


WESTBOUND CONTROL DESK

PB Americas, Inc.
230 WEST MONROE STREET, SUITE 900
CHICAGO, IL. 60606

USER NAME = sharma
FILE NAME = 0160d61-sht-slc-102.dgn
PLOT SCALE = NONE
PLOT DATE = 5/7/2009

DESIGNED - B. CROUTHAMEL
DRAWN - S. SHARMA
CHECKED - S. STERN
DATE - MAY 8, 2009

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE CONTROL SCHEMATIC DIAGRAM
WESTBOUND - SHEET 2

SCALE: AS SHOWN | SHEET NO. E-102 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

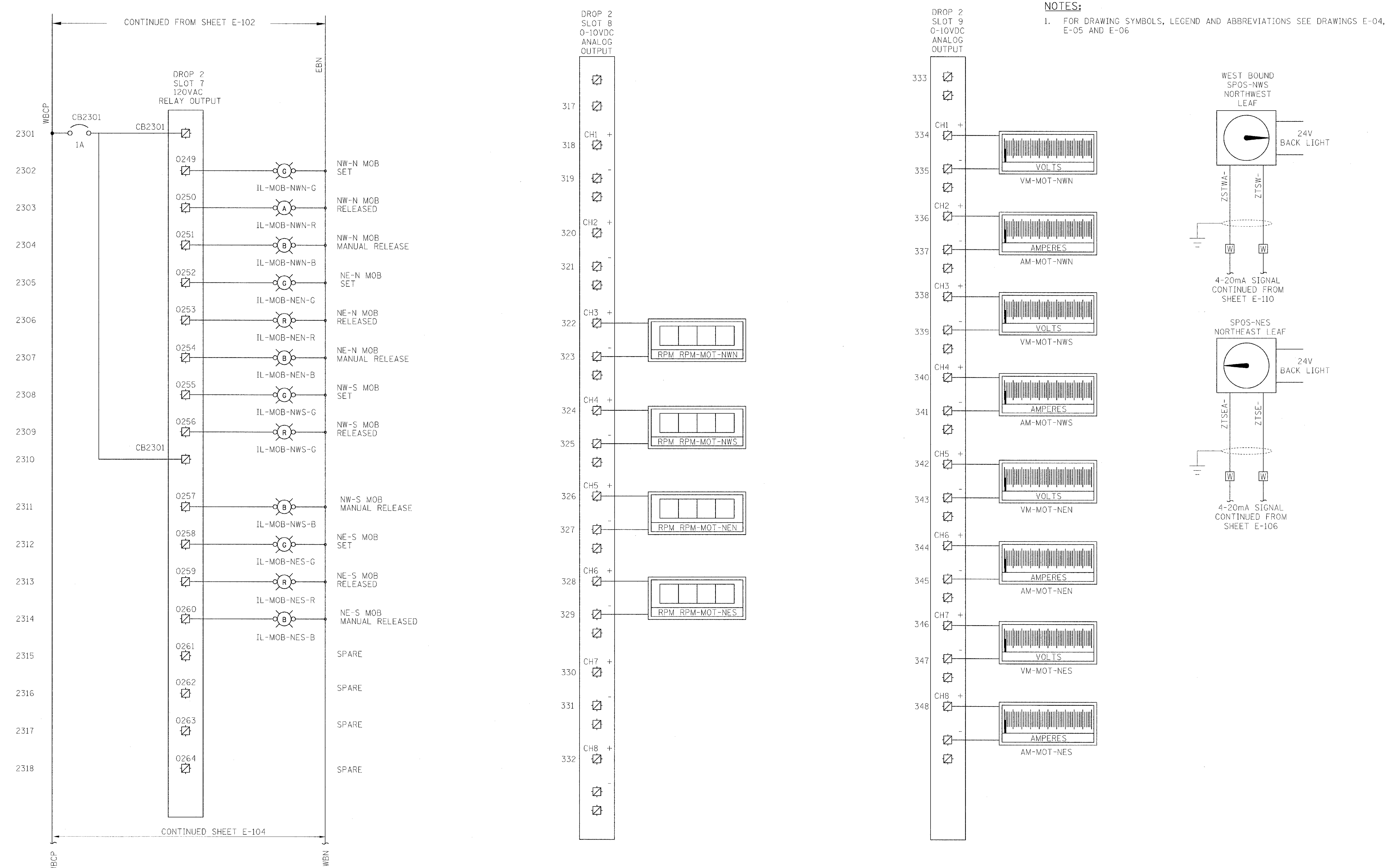
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	373

CONTRACT NO. 60D61

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06



WESTBOUND CONTROL DESK

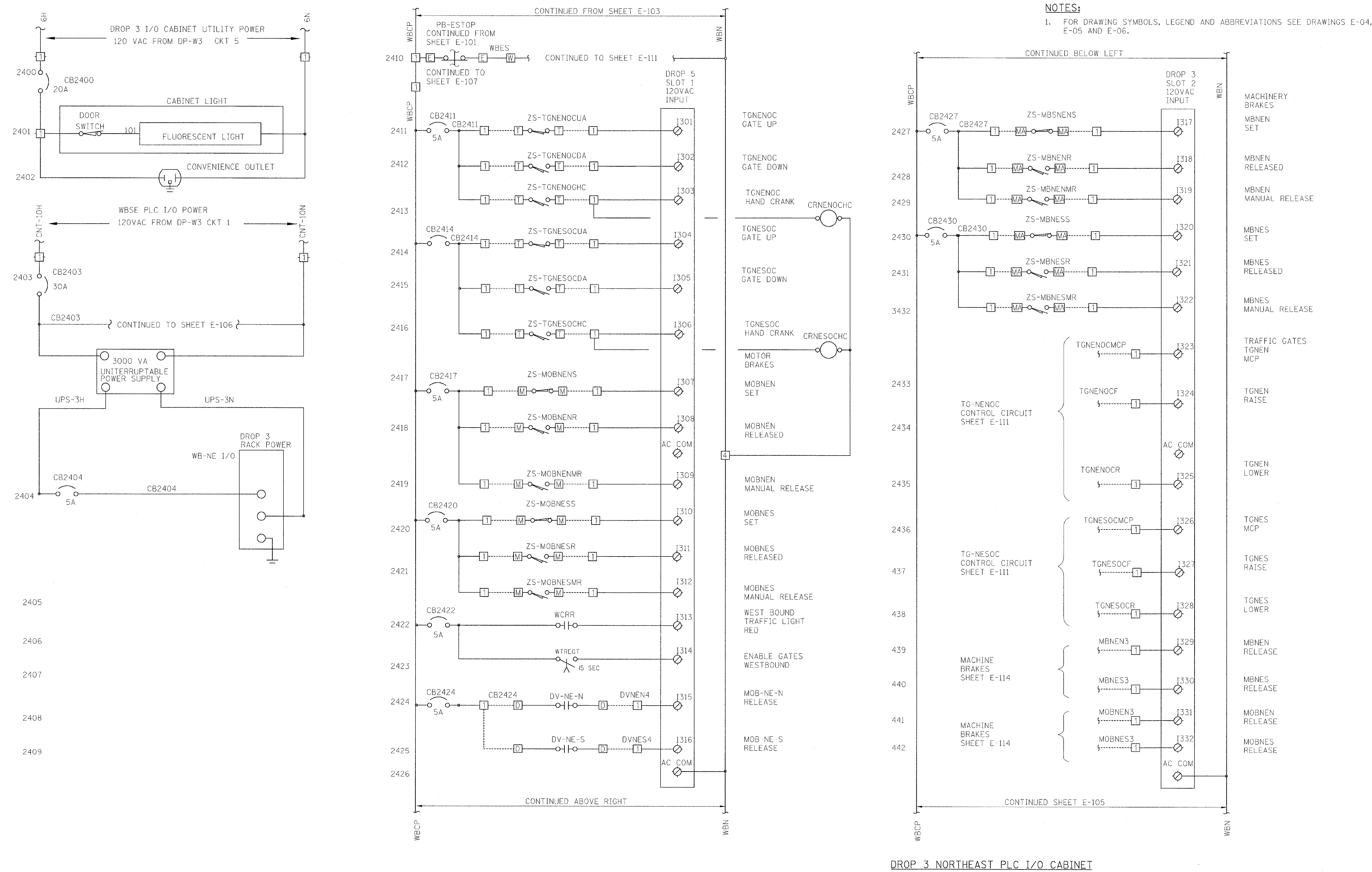
PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	FILE NAME = D160d61-sht-elc-103.dgn	DRAWN - S. SHARMA	REVISED -	
	PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -	
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

BRIDGE CONTROL SCHEMATIC DIAGRAM
WESTBOUND - SHEET 3

SCALE: AS SHOWN | SHEET NO. E-103 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	374
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



DROP 3 NORTHEAST PLC I/O CABINET

PB Americas, Inc.
230 WEST MONROE STREET, SUITE 900
CHICAGO, IL. 60606

USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -	
FILE NAME = D160d61-sht-elc-104.dgn	DRAWN - S. SHARMA	REVISED -	
PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -	
PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE CONTROL SCHEMATIC DIAGRAM
WESTBOUND - SHEET 4

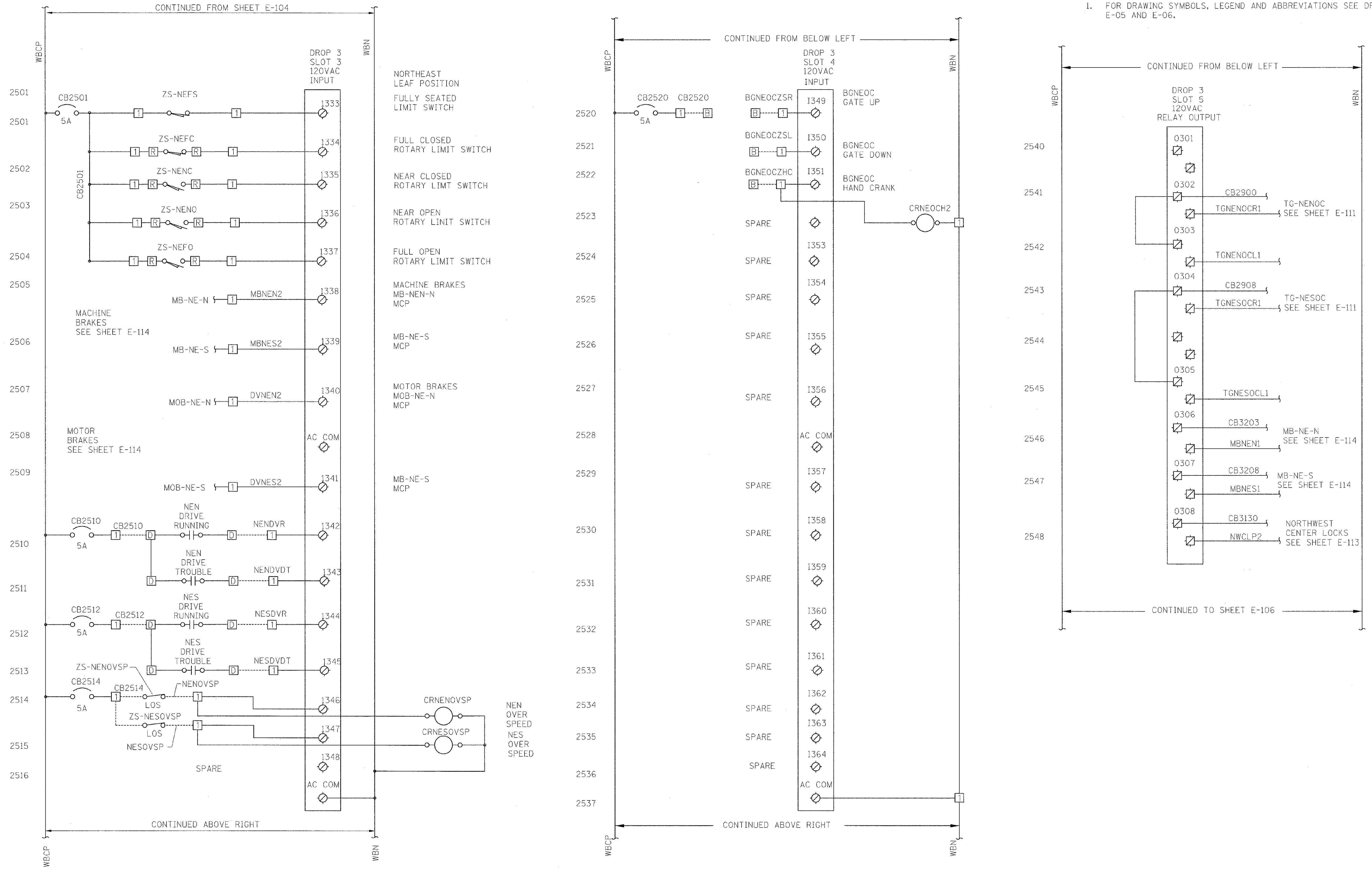
SCALE: AS SHOWN | SHEET NO. E-104 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	375
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.



DROP 3 NORTHEAST PLC I/O CABINET

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -
	FILE NAME = D162d61-sht-elc-105.dgn	DRAWN - S. SHARMA	REVISED -
	PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE CONTROL SCHEMATIC DIAGRAM
WESTBOUND - SHEET 5

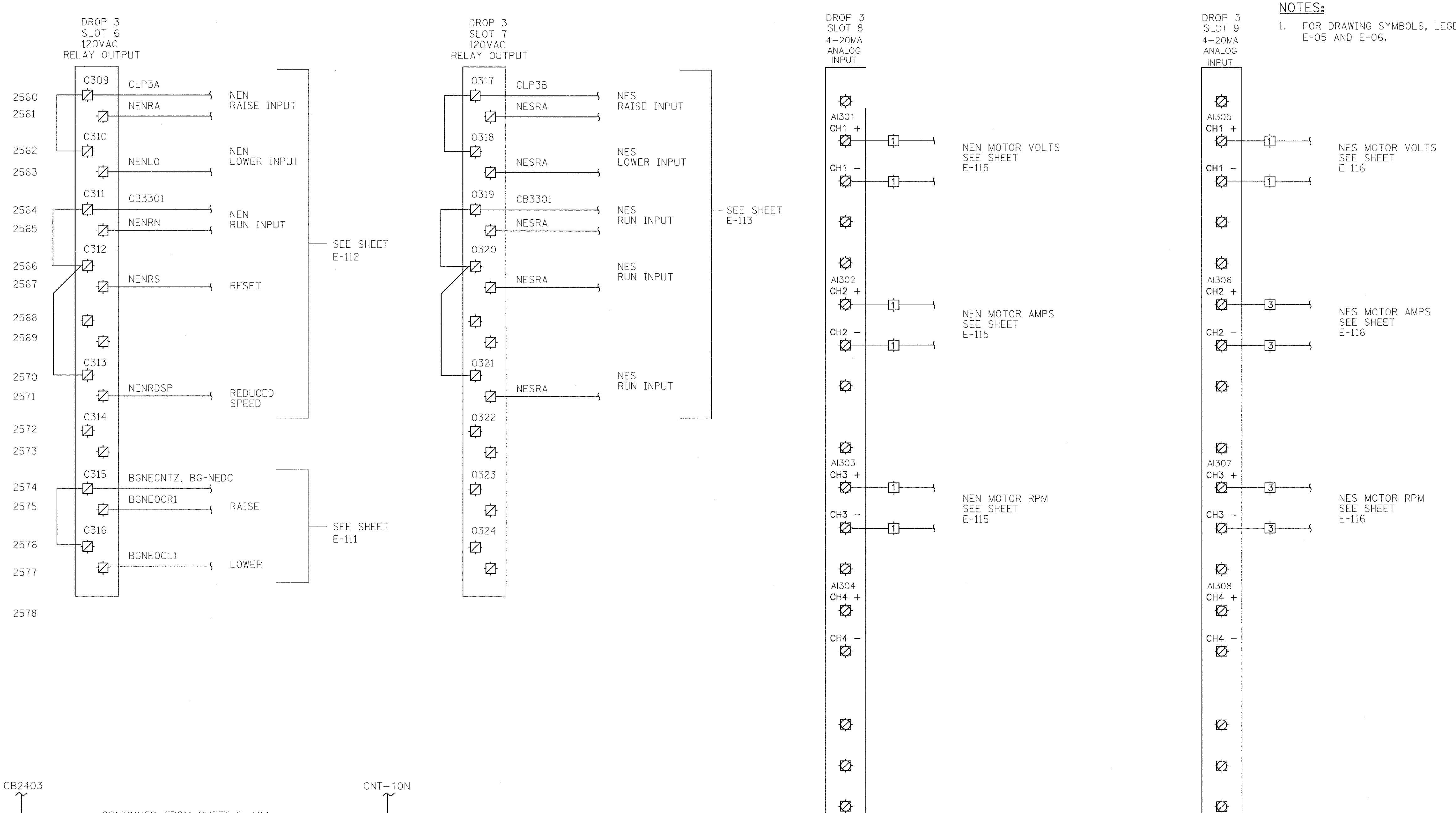
SCALE: AS SHOWN | SHEET NO. E-105 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

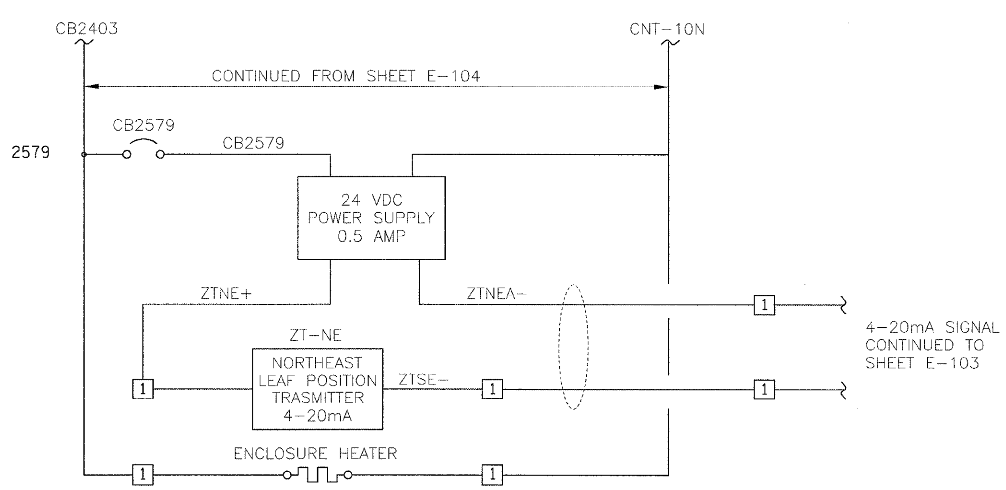
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	376
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.





NORTHEAST LEAF POSITION TRANSMITTER

DROP 3 NORTHEAST PLC I/O CABINET

PB Americas, Inc.
230 WEST MONROE STREET,
SUITE 900
CHICAGO, IL. 60606

USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -	
FILE NAME = D160d61-sht-elc-106.dgn	DRAWN - S. SHARMA	REVISED -	
PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -	
PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE CONTROL SCHEMATIC DIAGRAM
WESTBOUND - SHEET 6

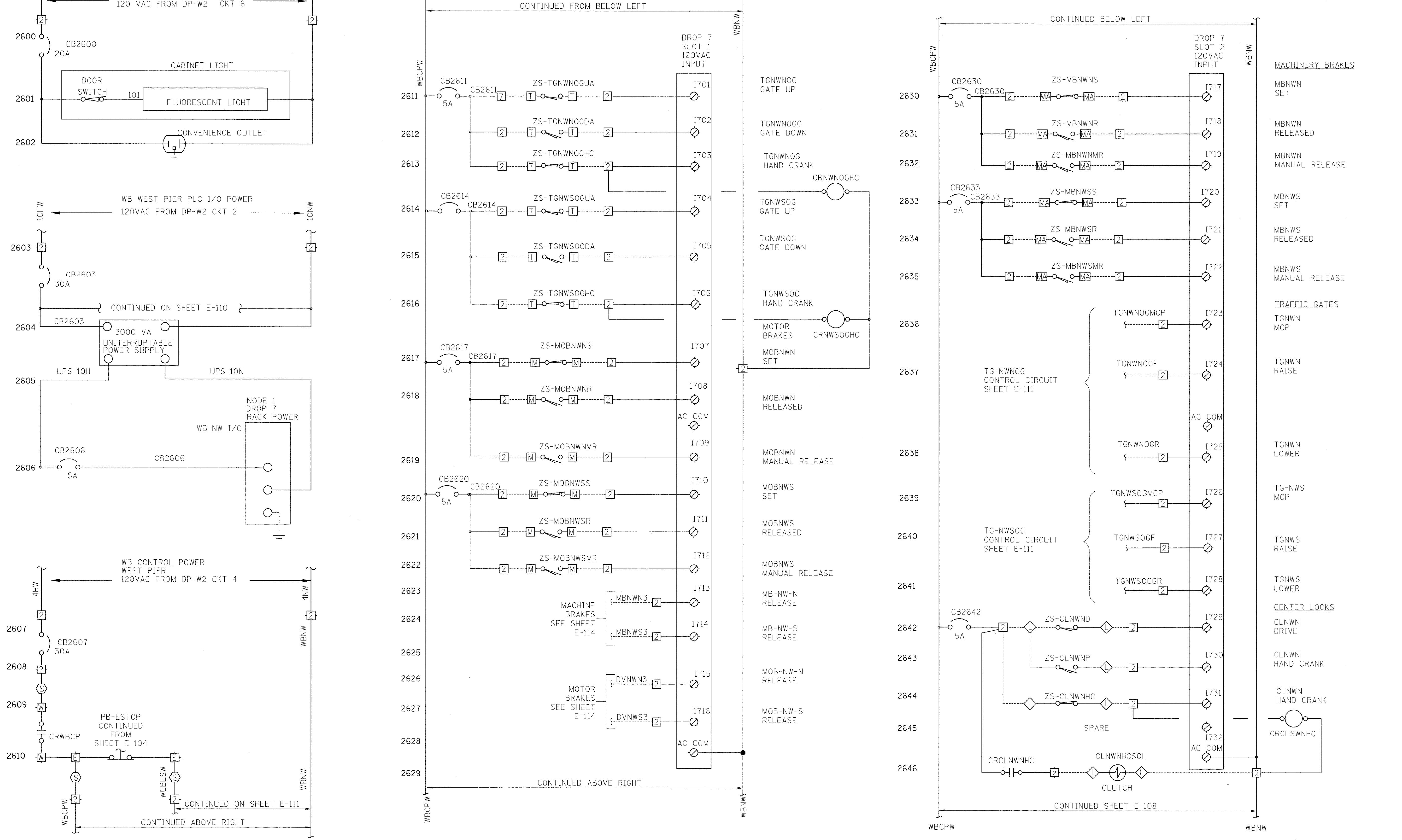
SCALE: AS SHOWN | SHEET NO. E-106 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	377
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.

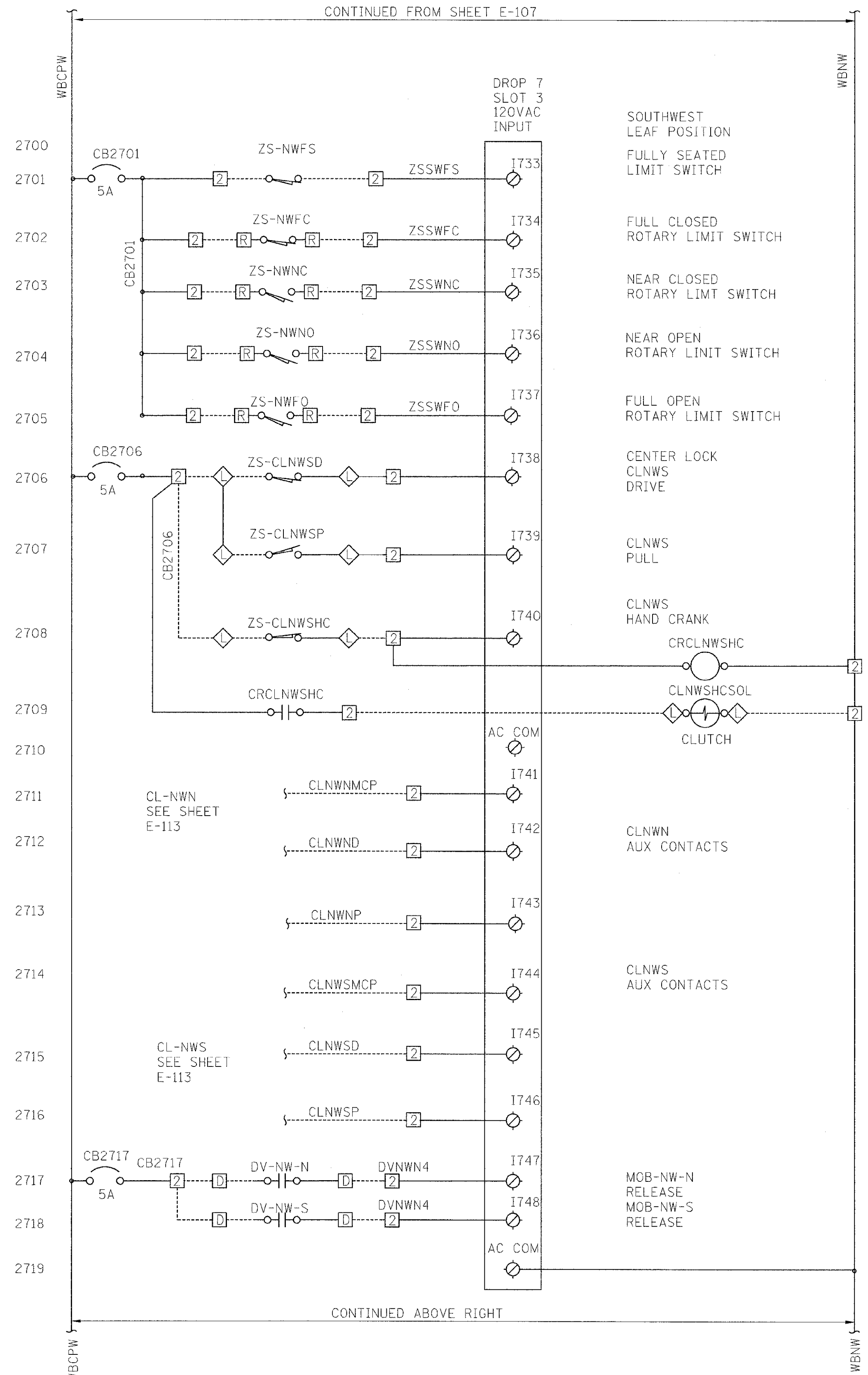


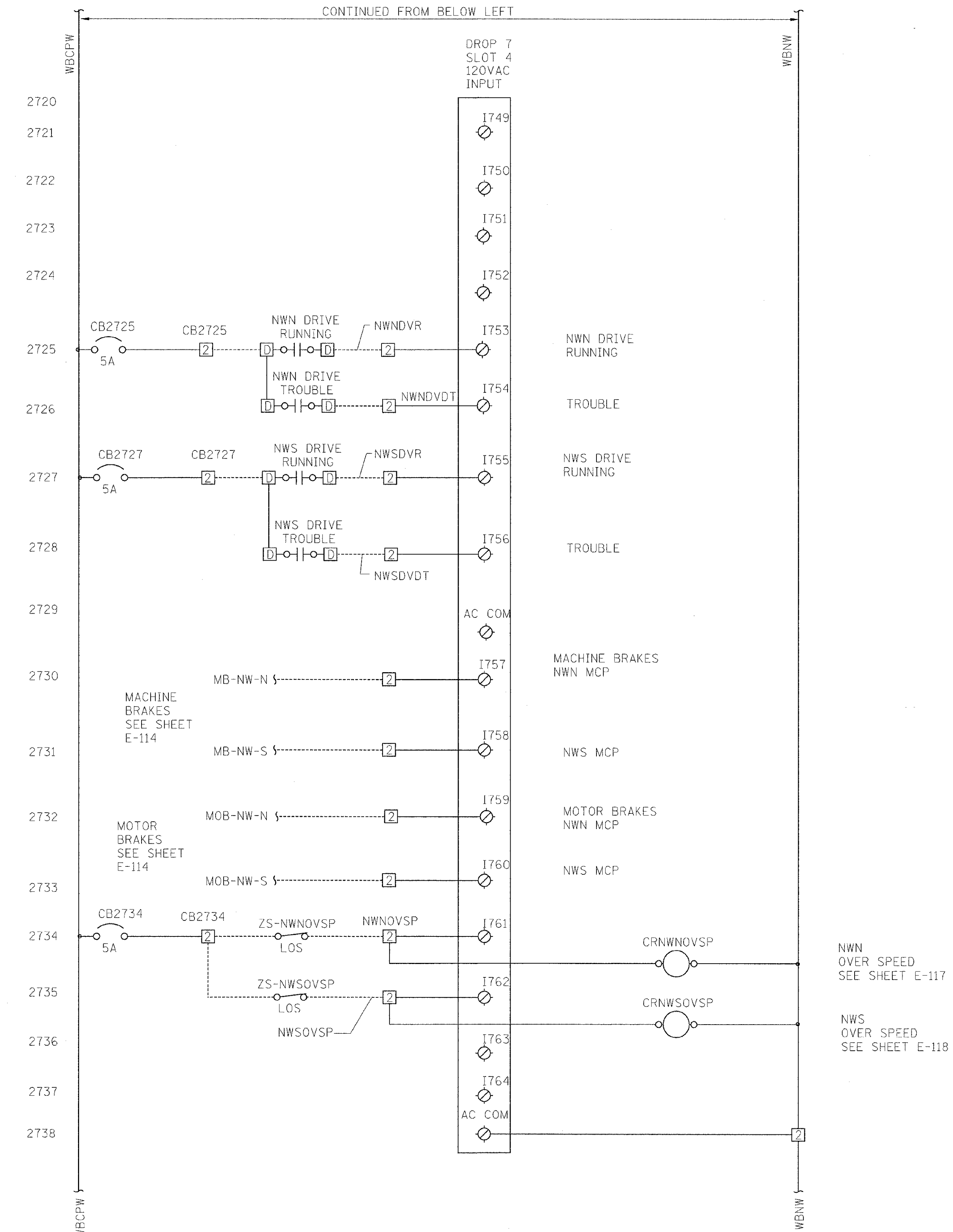
DROP 7 NORTHWEST PLC I/O CABINET

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BRIDGE CONTROL SCHEMATIC DIAGRAM WESTBOUND - SHEET 7**	F.A.P RTE. 389	SECTION 2424-2B-R
	FILE NAME = D160d61-sht-ele-107.dgn	DRAWN - S. SHARMA	REVISED -			COUNTY COOK	TOTAL SHEETS 398 / SHEET NO. 378
	PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -		SCALE: AS SHOWN	SHEET NO. E-107 OF E-125 SHEETS	STA. 379+06.09 TO STA. 382+45.28
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -		CONTRACT NO. 60D61	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06





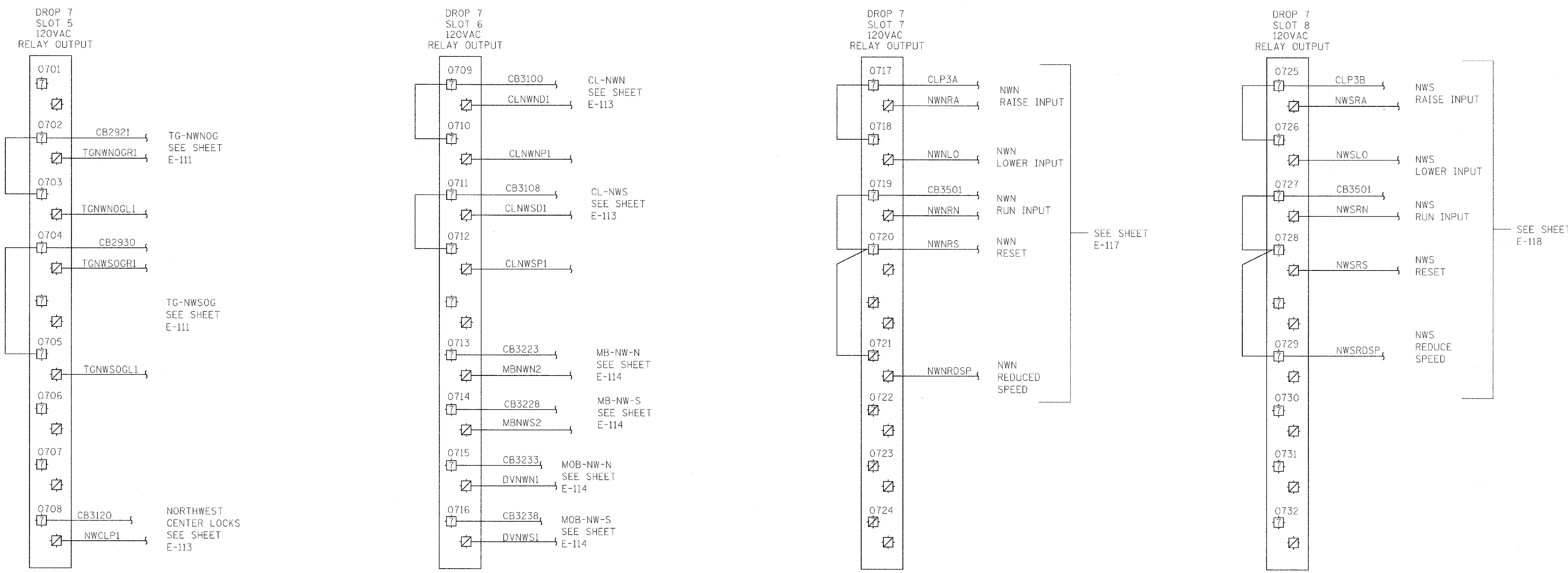
DROP 7 NORTHWEST PLC I/O CABINET

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma; FILE NAME = D162d61-sht-elc-108.dgn; PLOT SCALE = NONE; PLOT DATE = 5/7/2009	DESIGNED - B. CROUTHAMEL; DRAWN - S. SHARMA; CHECKED - S. STERN; DATE - MAY 8, 2009	REVISED -; REVISED -; REVISED -; REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BRIDGE CONTROL SCHEMATIC DIAGRAM WESTBOUND - SHEET 8** SCALE: AS SHOWN; SHEET NO. E-108 OF E-125 SHEETS; STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	379
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06



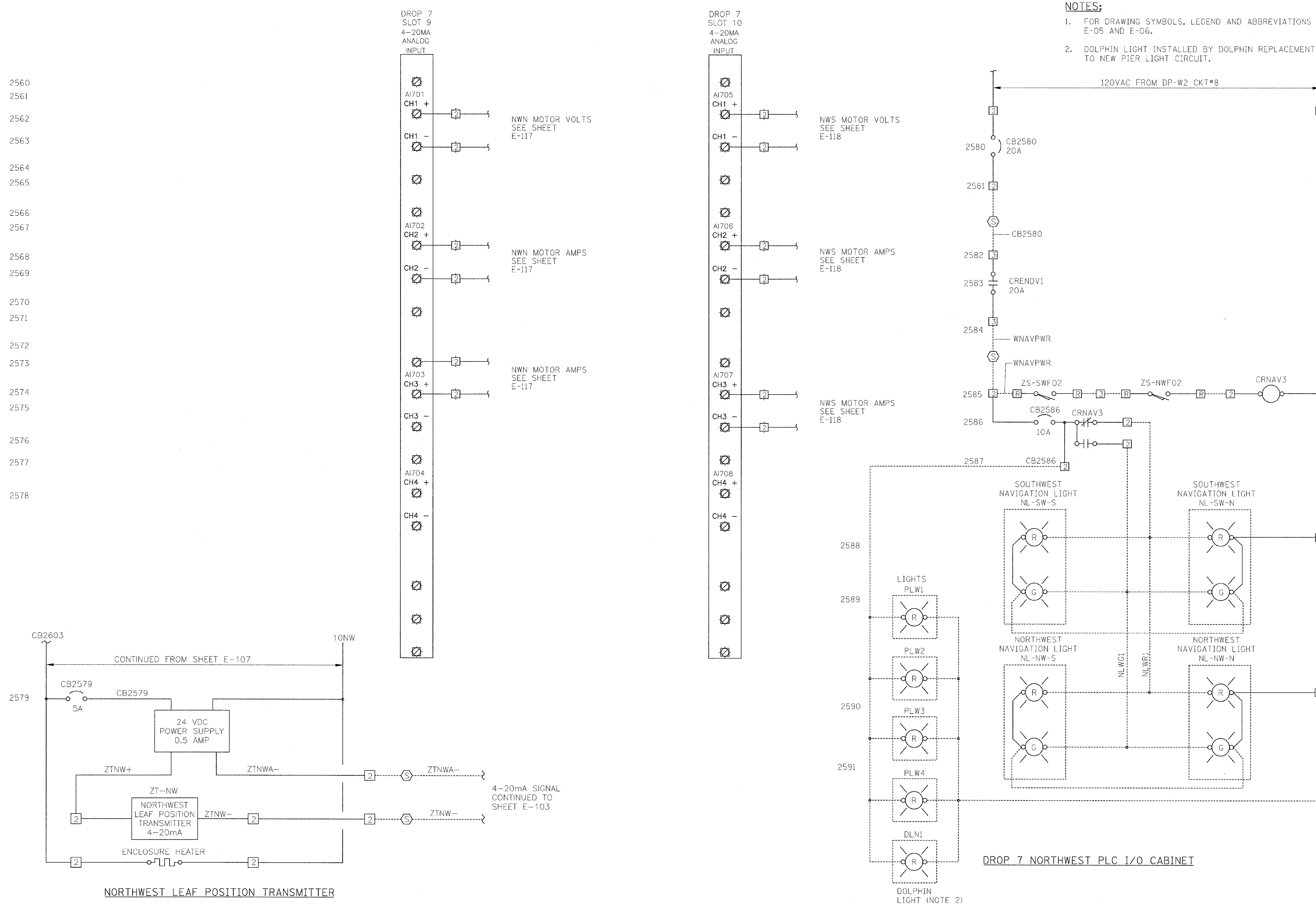
DROP 7 NORTHWEST PLC I/O CABINET

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma FILE NAME = D162d61-sht-elc-109.dgn PLOT SCALE = NONE PLOT DATE = 5/7/2009	DESIGNED - B. CROUTHAMEL DRAWN - S. SHARMA CHECKED - S. STERN DATE - MAY 8, 2009	REVISED - REVISED - REVISED - REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BRIDGE CONTROL SCHEMATIC DIAGRAM WESTBOUND - SHEET 9** SCALE: AS SHOWN | SHEET NO. E-109 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	380
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

NOTES:

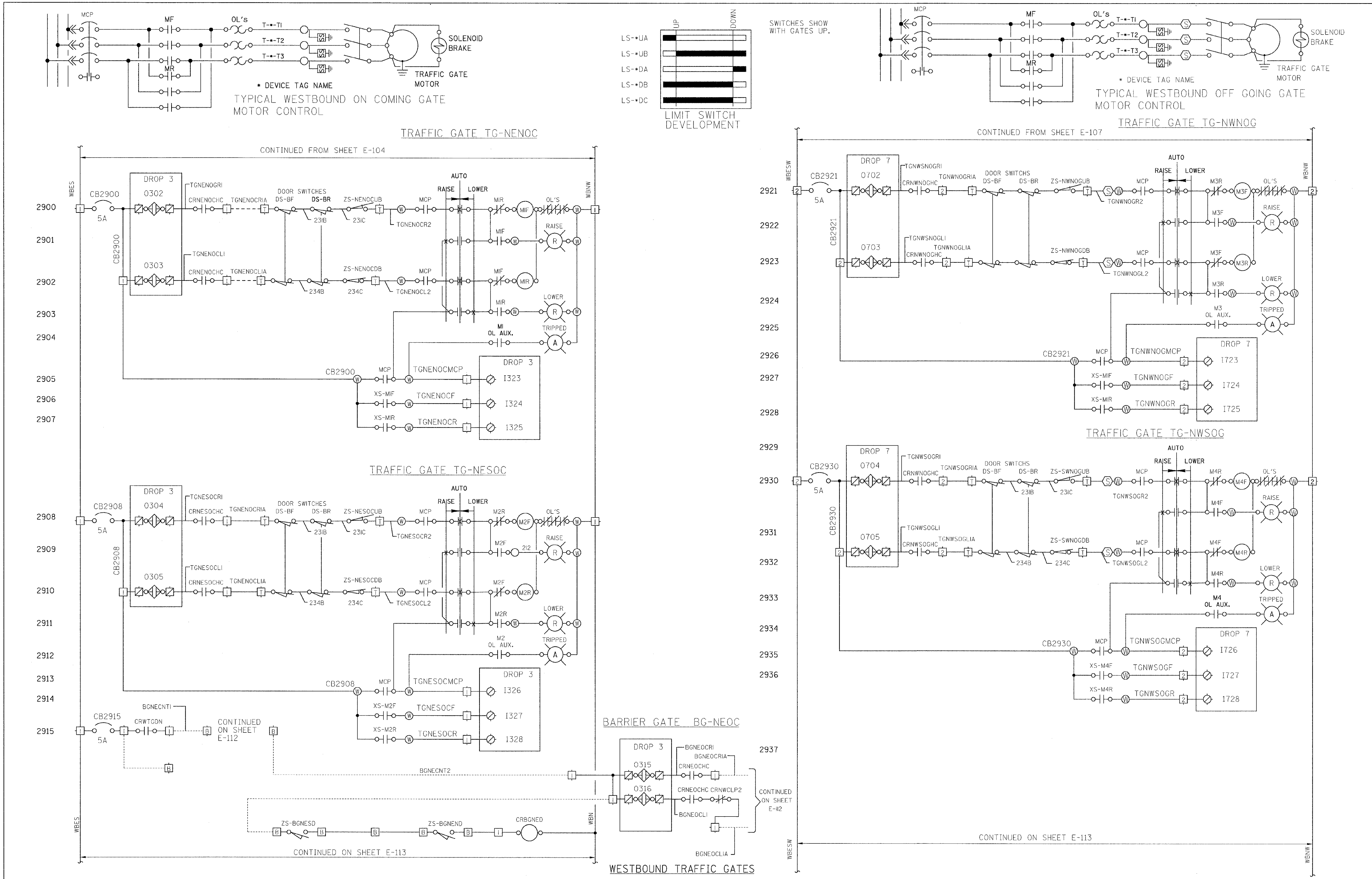
1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.
2. DOLPHIN LIGHT INSTALLED BY DOLPHIN REPLACEMENT CONTRACT. CONNECT TO NEW PIER LIGHT CIRCUIT.



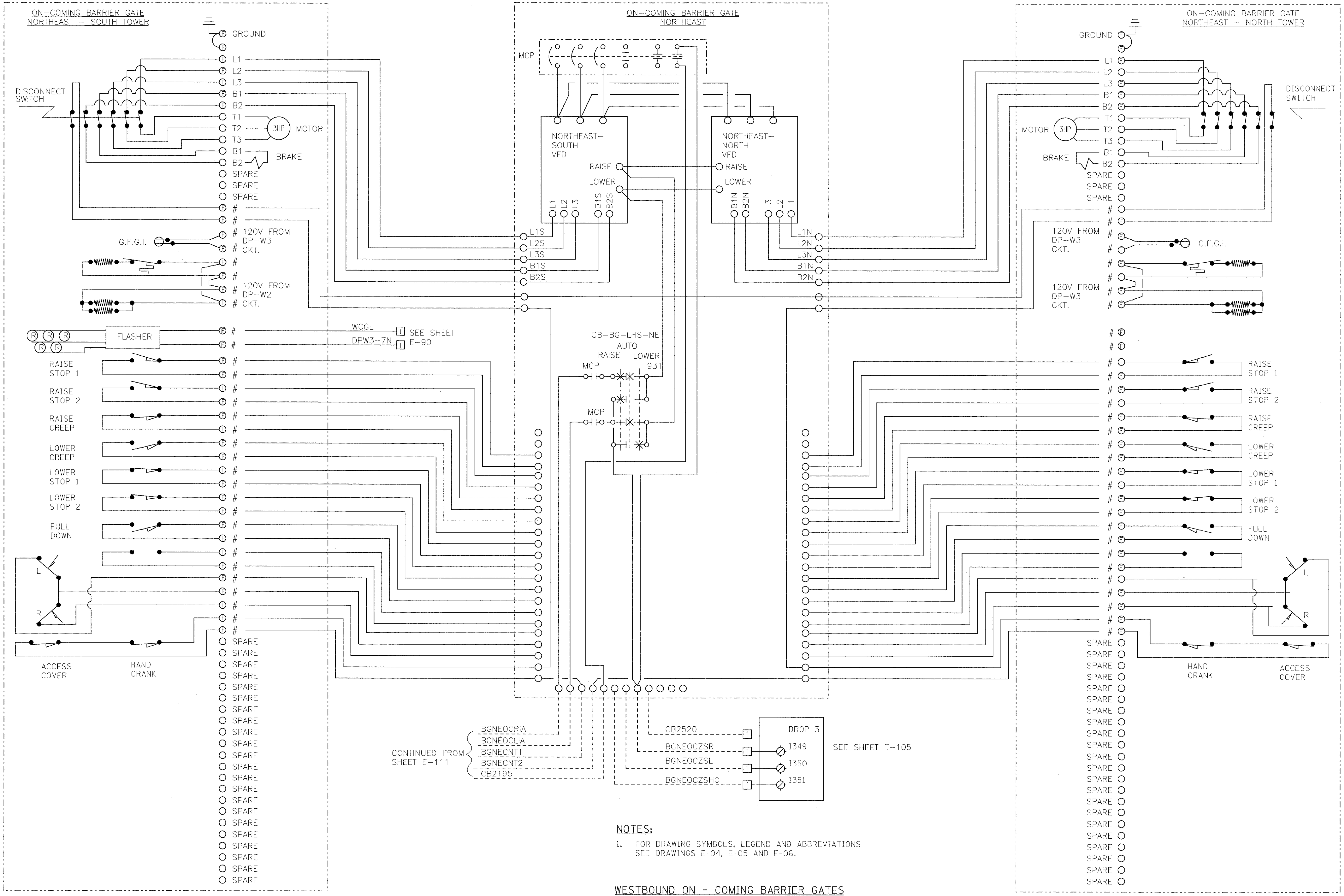
PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	FILE NAME = D160d61-sht-elc-110.dgn	DRAWN - S. SHARMA	REVISED -	
	PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -	
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

BRIDGE CONTROL SCHEMATIC DIAGRAM WESTBOUND - SHEET 10		
SCALE: AS SHOWN	SHEET NO. E-110 OF E-125 SHEETS	STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	381
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma; FILE NAME = D160d61-sht-elc-111.dgn; PLOT SCALE = NONE; PLOT DATE = 5/7/2009	DESIGNED - B. CROUTHAMEL; DRAWN - S. SHARMA; CHECKED - S. STERN; DATE - MAY 8, 2009	REVISED -; REVISED -; REVISED -; REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BRIDGE CONTROL SCHEMATIC DIAGRAM WESTBOUND - SHEET 11**	F.A.P. RTE. 399; SECTION 2424-2B-R; COUNTY COOK; TOTAL SHEETS 398; SHEET NO. 382	CONTRACT NO. 60D61
					SCALE: AS SHOWN; SHEET NO. E-111 OF E-125 SHEETS; STA. 379+06.09 TO STA. 382+45.28	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



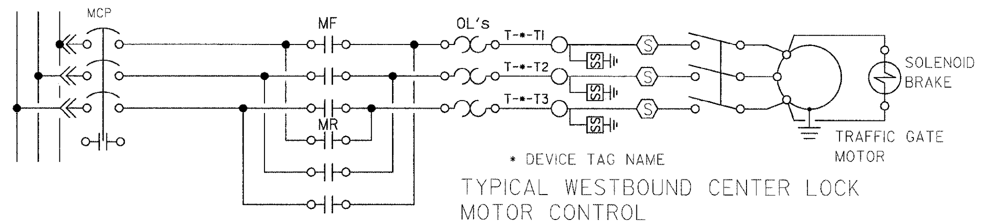
NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.

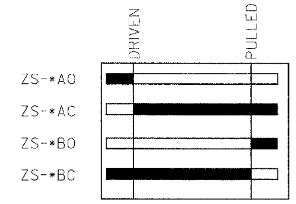
WESTBOUND ON - COMING BARRIER GATES

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BRIDGE CONTROL SCHEMATIC DIAGRAM WESTBOUND - SHEET 12**
	FILE NAME = D160d61-sht-elc-112.dgn	DRAWN - S. SHARMA	REVISED -		SCALE: AS SHOWN
	PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -		SHEET NO. E-112 OF E-125 SHEETS
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -		STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	383
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



TYPICAL WESTBOUND CENTER LOCK MOTOR CONTROL



CENTER LOCK LIMIT SWITCH DEVELOPMENT

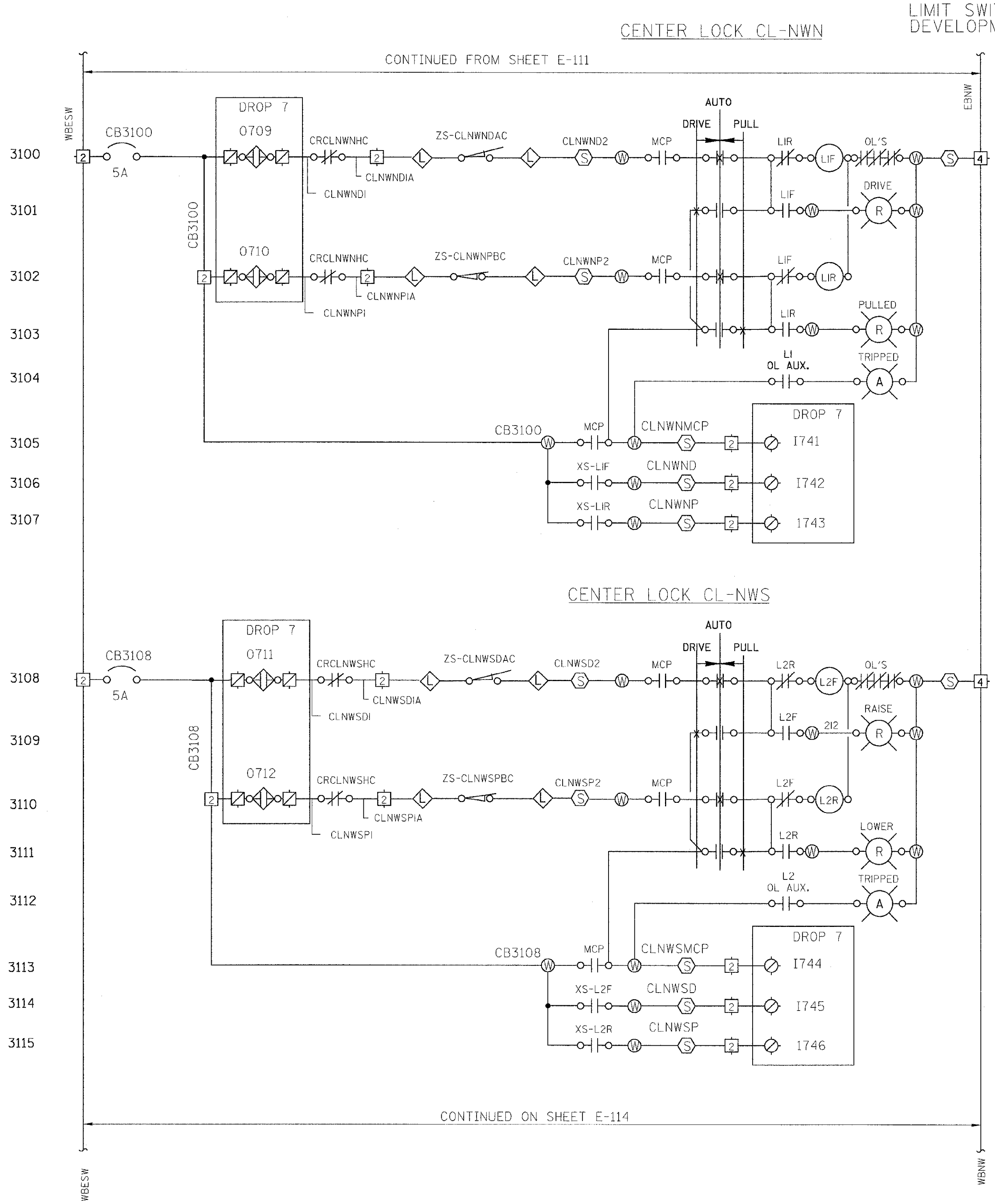
SWITCHES SHOWN WITH LOCK BAR DRIVEN.

• ZS TAG NAME

CLNWNP = CENTER LOCK NORTHWEST NORTH PULLED
CLNWND = CENTER LOCK NORTHWEST NORTH DRIVEN
CLNWSP = CENTER LOCK NORTHWEST SOUTH PULLED
CLNWSD = CENTER LOCK NORTHWEST SOUTH DRIVEN

NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.



WESTBOUND NORTHWEST LEAF CENTER LOCKS

3120
3121
3122
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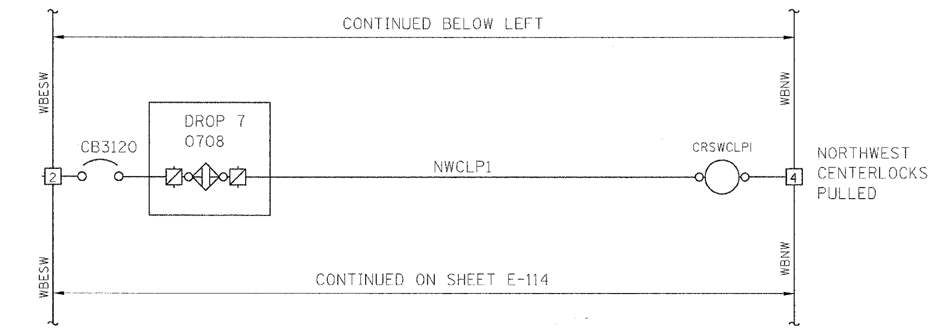
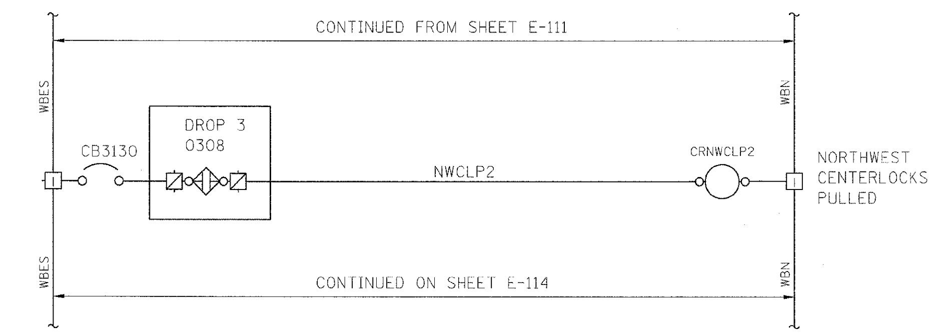
3138



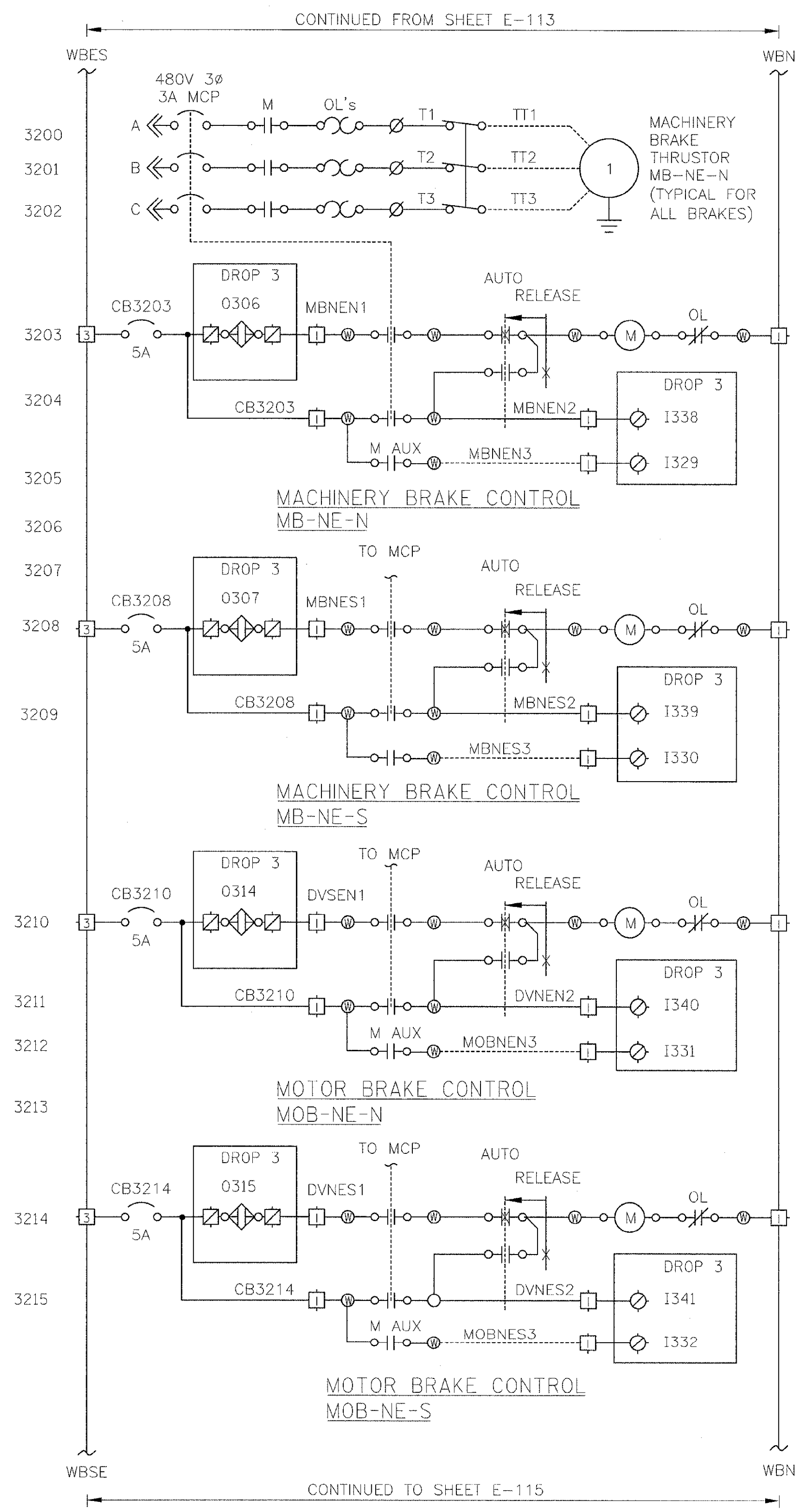


PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma FILE NAME = D160d61-sht-elc-113.dgn PLOT SCALE = NONE PLOT DATE = 5/7/2009	DESIGNED - B. CROUTHAMEL DRAWN - S. SHARMA CHECKED - S. STERN DATE - MAY 8, 2009	REVISED - REVISED - REVISED - REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BRIDGE CONTROL SCHEMATIC DIAGRAM WESTBOUND - SHEET 13** SCALE: AS SHOWN | SHEET NO. E-113 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

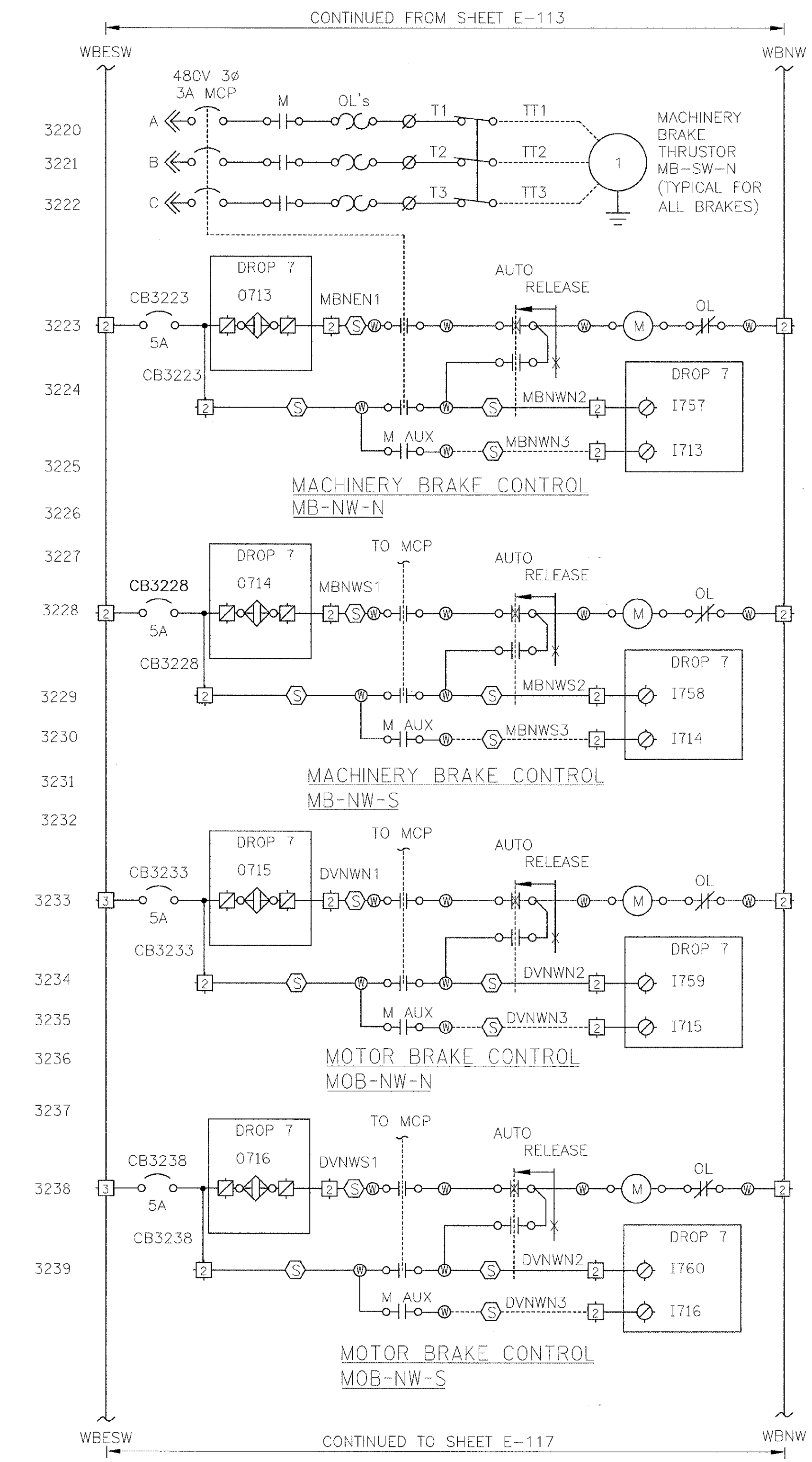
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	384
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-4, E-05 AND E-06.



WESTBOUND NORTHEAST
MACHINERY AND MOTOR BRAKES



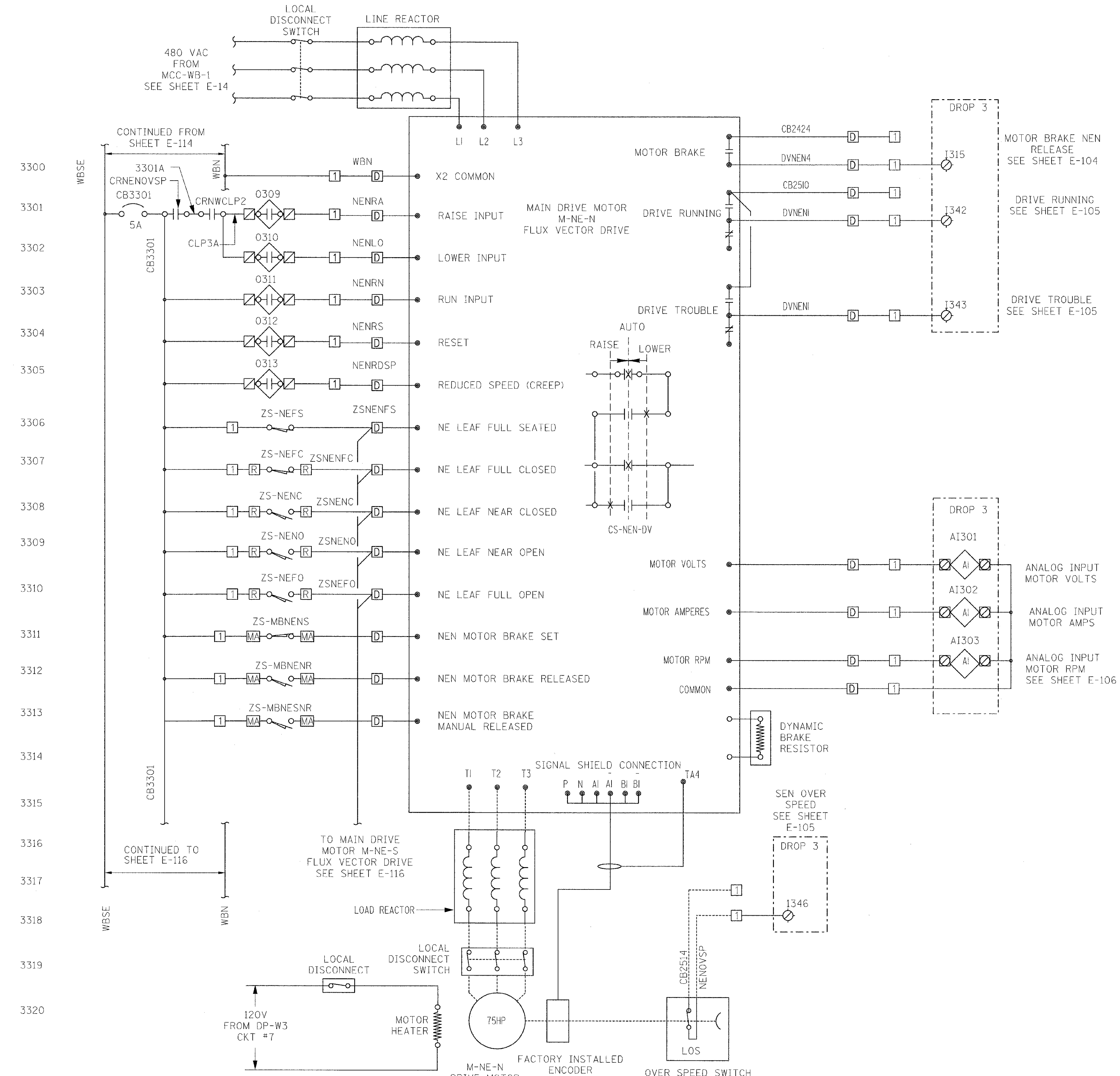
WESTBOUND NORTHWEST
MACHINERY AND MOTOR BRAKES

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma FILE NAME = D160d61-sht-elc-114.dgn PLOT SCALE = NONE PLOT DATE = 5/7/2009	DESIGNED - B. CROUTHAMEL DRAWN - S. SHARMA CHECKED - S. STERN DATE - MAY 8, 2009	REVISED - REVISED - REVISED - REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**	**BRIDGE CONTROL SCHEMATIC DIAGRAM** **WESTBOUND - SHEET 14** SCALE: AS SHOWN | SHEET NO. E-114 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	385
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.

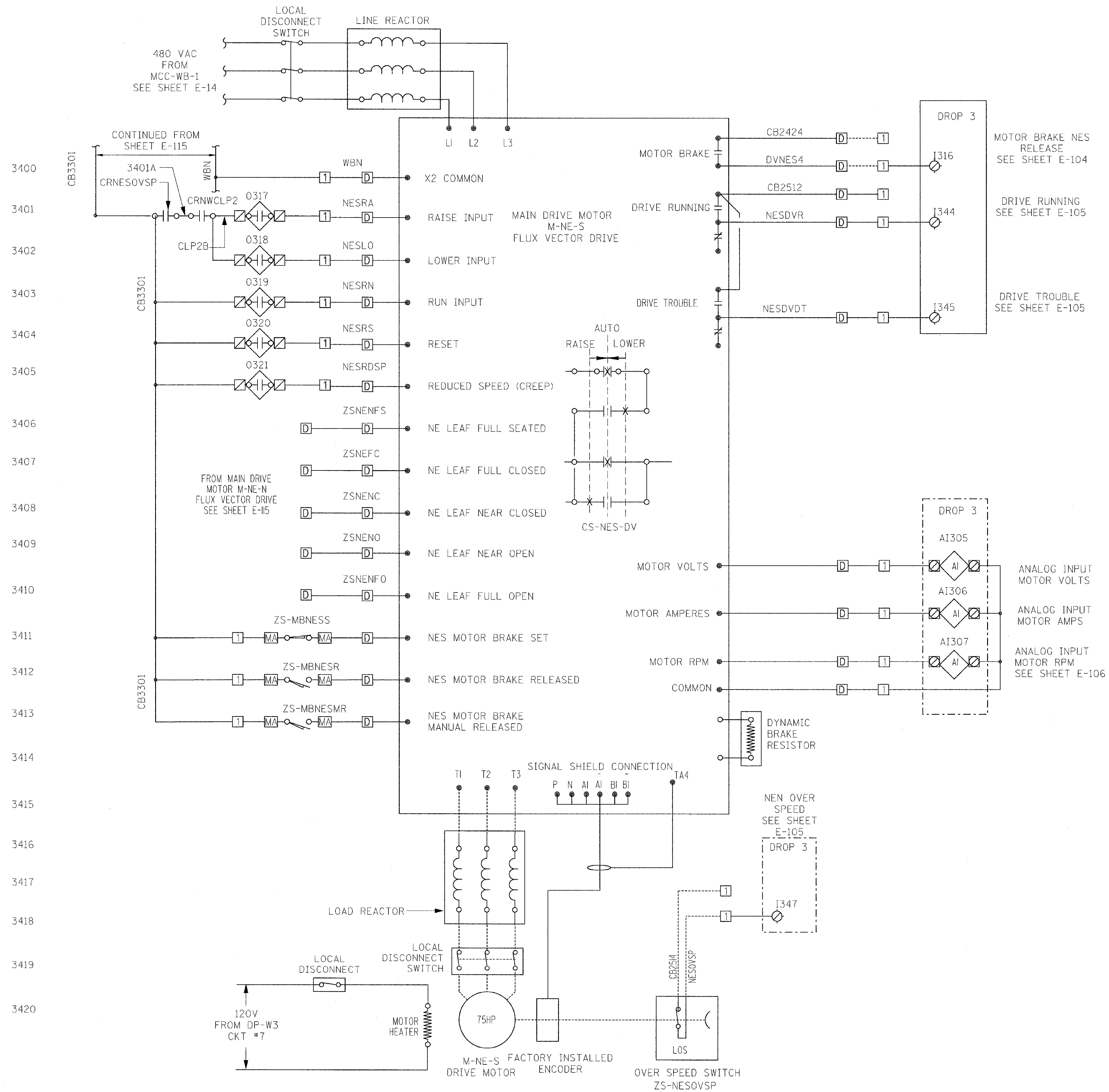


WESTBOUND MAIN MOTOR NEN DRIVE

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BRIDGE CONTROL SCHEMATIC DIAGRAM WESTBOUND - SHEET 15**	F.A.P RTE. 389; SECTION 2424-2B-R; COUNTY COOK; TOTAL SHEETS 398; SHEET NO. 386
	FILE NAME = 0160e61-sht-elc-115.dgn	DRAWN - S. SHARMA	REVISED -			CONTRACT NO. 60D61
	PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -		SCALE: AS SHOWN	SHEET NO. E-115 OF E-125 SHEETS
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -		STA. 379+06.09 TO STA. 382+45.28	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.



WESTBOUND MAIN MOTOR NES DRIVE

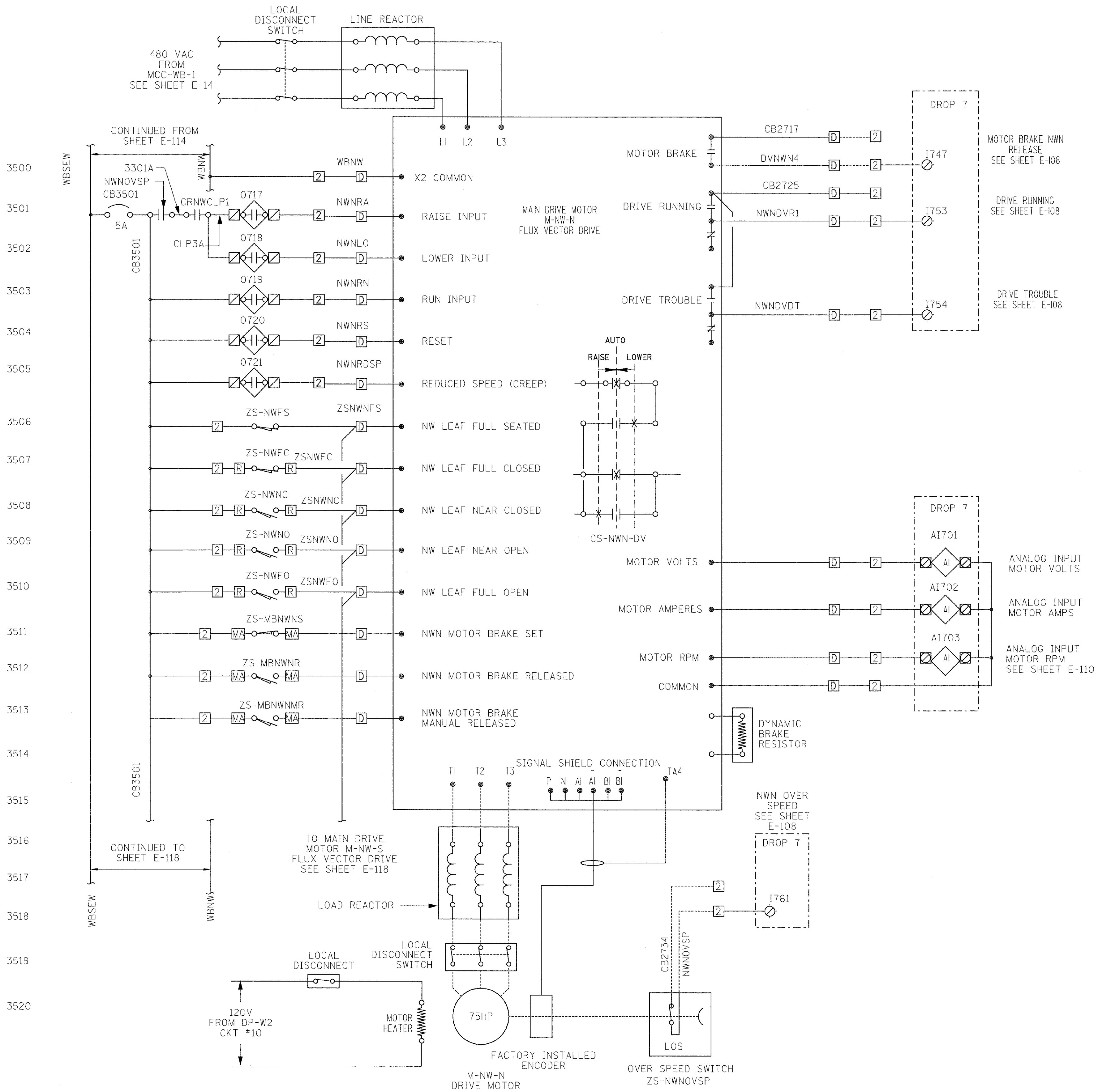
PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma FILE NAME = D160d61-sht-elc-116.dgn PLOT SCALE = NONE PLOT DATE = 5/7/2009	DESIGNED - B. CROUTHAMEL DRAWN - S. SHARMA CHECKED - S. STERN DATE - MAY 8, 2009	REVISED - REVISED - REVISED - REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

BRIDGE CONTROL SCHEMATIC DIAGRAM WESTBOUND - SHEET 16			
SCALE: AS SHOWN	SHEET NO. E-116 OF E-125 SHEETS	STA. 379+06.09 TO STA. 382+45.28	

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	387
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

NOTES:

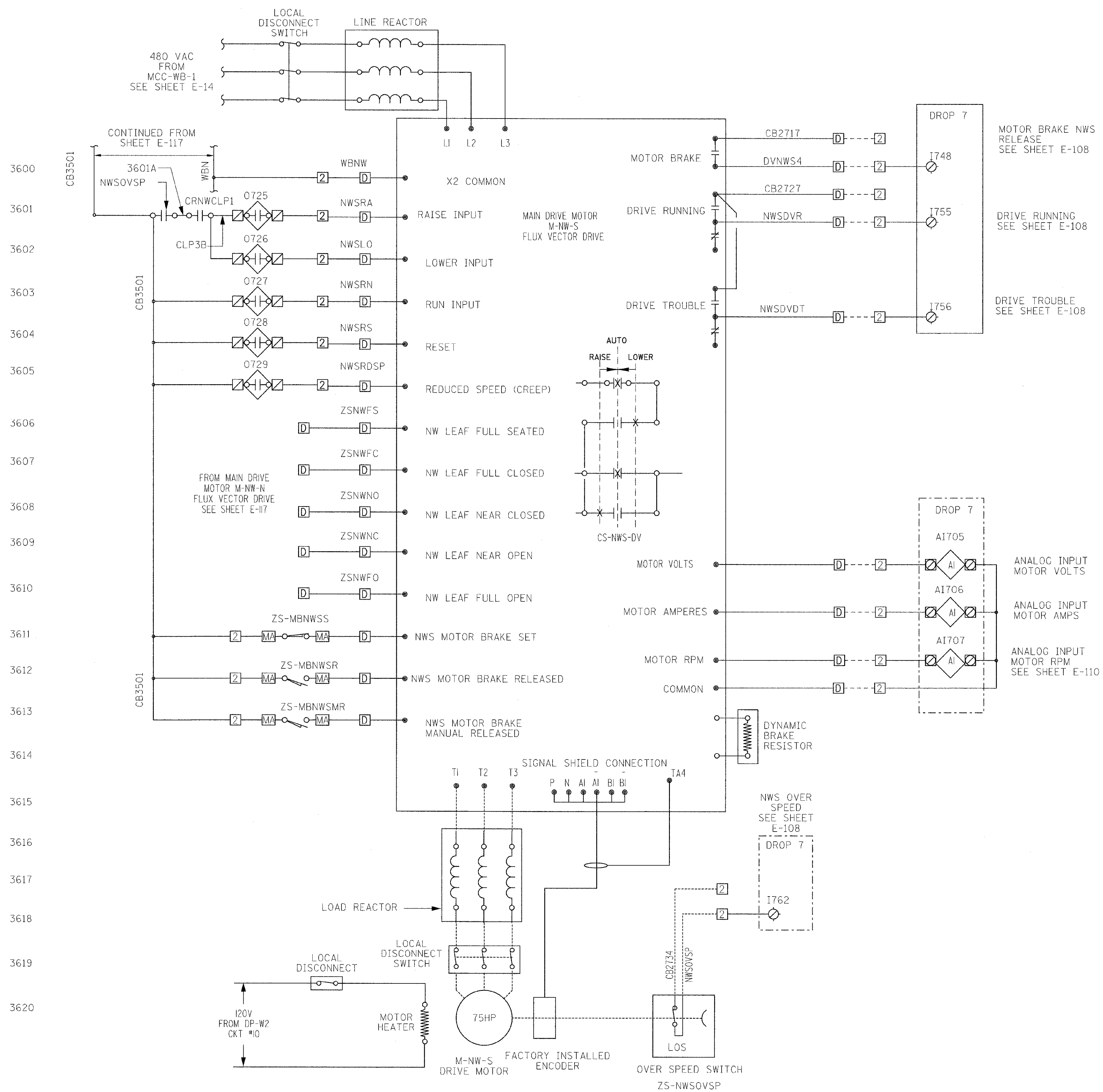
1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.



WESTBOUND MAIN MOTOR NWN DRIVE

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BRIDGE CONTROL SCHEMATIC DIAGRAM WESTBOUND - SHEET 17**
	FILE NAME = D16Ød61-sht-elc-117.dgn	DRAWN - S. SHARMA	REVISED -		
	PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -		
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -		SCALE: AS SHOWN / SHEET NO. E-117 OF E-125 SHEETS / STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	388
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTES:

1. FOR DRAWING SYMBOLS, LEGEND AND ABBREVIATIONS SEE DRAWINGS E-04, E-05 AND E-06.

WESTBOUND MAIN MOTOR NWS DRIVE

PB Americas, Inc.
230 WEST MONROE STREET,
SUITE 900
CHICAGO, IL. 60606

USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -	
FILE NAME = 0160d61-sht-ele-118.dgn	DRAWN - S. SHARMA	REVISED -	
PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -	
PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

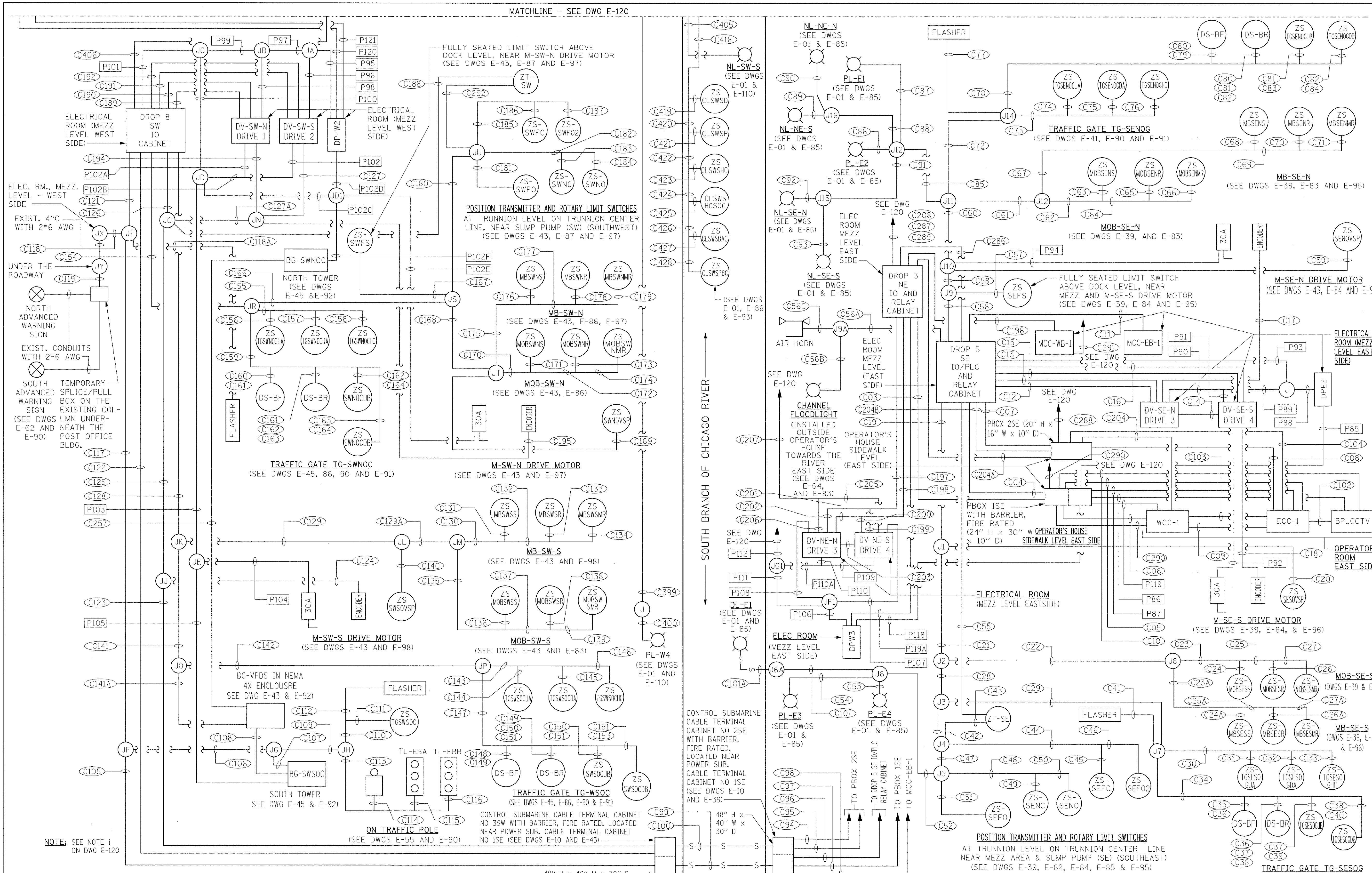
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE CONTROL SCHEMATIC DIAGRAM
WESTBOUND - SHEET 18

SCALE: AS SHOWN | SHEET NO. E-118 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	389
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



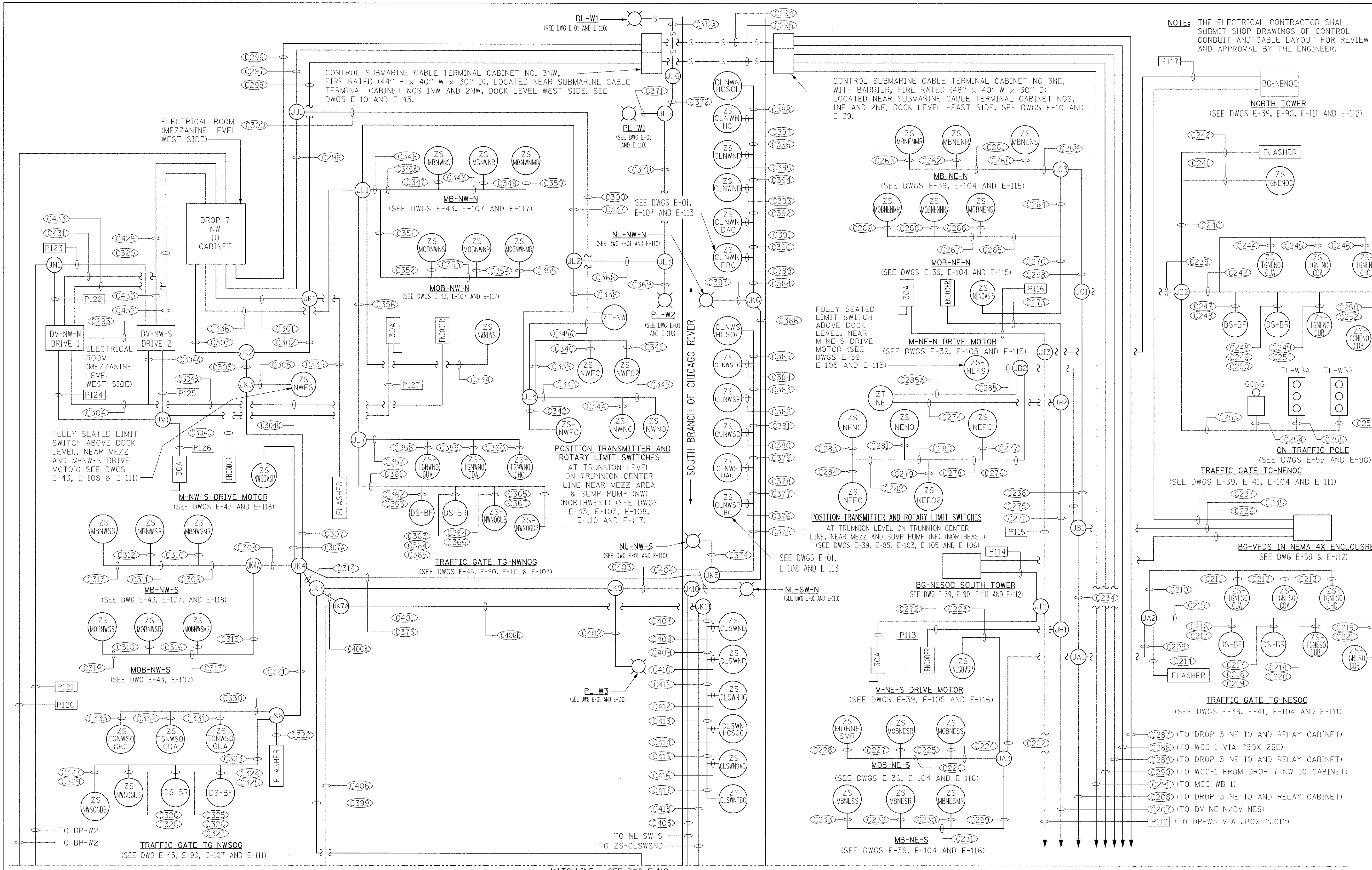
PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma FILE NAME = 0160d61-sht-slc-119.dgn PLOT SCALE = NONE PLOT DATE = 5/7/2009	DESIGNED - B. CROUTHAMEL DRAWN - S. SHARMA CHECKED - S. STERN DATE - MAY 8, 2009	REVISED - REVISED - REVISED - REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

BRIDGE CONTROL WIRING BLOCK DIAGRAM
SHEET 1

SCALE: AS SHOWN | SHEET NO. E-119 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	390
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL. 60606	USER NAME = sharma; FILE NAME = 0160d61-sht-elc-120.dgn; PLOT SCALE = NONE; PLOT DATE = 5/7/2009	DESIGNED - B. CROUTHAMEL; DRAWN - S. SHARMA; CHECKED - S. STERN; DATE - MAY 8, 2009	REVISED -; REVISED -; REVISED -; REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

BRIDGE CONTROL WIRING BLOCK DIAGRAM
SHEET 2

SCALE: AS SHOWN	SHEET NO. E-120 OF E-125 SHEETS	STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	391
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

WEST BOUND CONTROL DESK

DROP 2 SLOT 1
120VAC 16 PT. INPUTMODULE

PT	ADDR *	TAGNAME	WIRE #
IN 0	I201	WBCP	WBCP
IN 1	I202	PB-ESTOP	PBESTOP
IN 2	I203		
IN 3	I204		
IN 4	I205	CS-LCK-NW	CS-LCK-NW-1
IN 5	I206	CS-LCK-NW	CS-LCK-NW-2
IN 6	I207	CS-SP-NW	CS-SP-NW-1
IN 7	I208	CS-SP-NW	CS-SP-NW-2
IN 8	I209	CS-SP-NE	CS-SP-NE-1
IN 9	I210	CS-SP-NE	CS-SP-NE-2
IN10	I211	PB-STOP-NW	PBSTOPNW
IN11	I212	PBL-UVNW	PBUVNW
IN12	I213	PB-STOP-NE	PBSTOPNE
IN13	I214	PBL-UVNE	PBUVNE
IN14	I215	SPARE	SPARE
IN15	I216	SPARE	SPARE

DROP 2 SLOT 2
120VAC 16 PT. INPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
IN 0	I217	BP-TRF-WB	BPTRFWB
IN 1	I218	BP-TG-WB	BPTGWB
IN 2	I219	BP-BG-WB	BPBGWB
IN 3	I220	BP-LCK-WB	BPLCKWB
IN 4	I221	CS-TG-NE	CS-TG-NE-1
IN 5	I222	CS-TG-NE	CS-TG-NE-2
IN 6	I223	CS-TG-NW	CS-TG-NW-1
IN 7	I224	CS-TG-NW	CS-TG-NW-2
IN 8	I225	CS-BG-NE	CS-BG-NE-1
IN 9	I226	CS-BG-NE	CS-BG-NE-2
IN10	I227	CS-TG-GR	CS-TG-GR
IN11	I228	CS-BR-GR	CS-BR-GR
IN12	I229	SPARE	
IN13	I230	SPARE	
IN14	I231	SPARE	
IN15	I232	SPARE	

DROP 2 SLOT 3
120VAC 16 PT. INPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
IN 0	I233	CS-SP-WB	
IN 1	I234	CS-SP-WB	
IN 2	I235	CS-SP-EB	
IN 3	I236	CS-SP-EB	
IN 4	I237	CS-SP-GRP	
IN 5	I238	CS-SP-GRP	
IN 6	I239	CS-SP-SPD	
IN 7	I240	CS-SP-SPD	
IN 8	I241	SPARE	
IN 9	I242	SPARE	
IN10	I243	SPARE	
IN11	I244	SPARE	
IN12	I245	SPARE	
IN13	I246	SPARE	
IN14	I247	SPARE	
IN15	I248	SPARE	

DROP 2 SLOT 4
120VAC 16 PT. RELAY OUTPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
OUT 0	0201		
OUT 1	0202		
OUT 2	0203		
OUT 3	0204		
OUT 4	0205		
OUT 5	0206		
OUT 6	0207	PBL-UVNW	
OUT 7	0208	PBL-UVSE	
OUT 8	0209	IL-DRV-NWNR	
OUT 9	0210	IL-DRV-NWNF	
OUT10	0211	IL-DRV-NWSR	
OUT11	0212	IL-DRV-NWSF	
OUT12	0213	IL-DRV-NENR	
OUT13	0214	IL-DRV-NENF	
OUT14	0215	IL-DRV-NESR	
OUT15	0216	IL-DRV-NESF	

DROP 2 SLOT 5
120VAC 16 PT. RELAY OUTPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
OUT 0	0217	IL-NWS-FO-G	
OUT 1	0218	IL-NWS-NO-A	
OUT 2	0219	IL-NWS-NC-A	
OUT 3	0220	IL-NWS-FC-G	
OUT 4	0221	IL-NWS-FS-W	
OUT 5	0222	IL-NES-FO-G	
OUT 6	0223	IL-NES-NO-A	
OUT 7	0224	IL-NES-NC-A	
OUT 8	0225	IL-NES-FC-G	
OUT 9	0226	IL-NES-FS-W	
OUT10	0227	IL-LCK-NWS-G	
OUT11	0228	IL-LCK-NWS-R	
OUT12	0229	IL-LCK-NWS-B	
OUT13	0230	IL-LCK-NWN-G	
OUT14	0231	IL-LCK-NWN-R	
OUT15	0232	IL-LCK-NWN-B	

DROP 2 SLOT 6
120VAC 16 PT. RELAY OUTPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
OUT 0	0233	IL-MB-NWN-G	
OUT 1	0234	IL-MB-NWN-R	
OUT 2	0235	IL-MB-NWN-B	
OUT 3	0236	IL-MB-NEN-G	
OUT 4	0237	IL-MB-NEN-R	
OUT 5	0238	IL-MB-NEN-B	
OUT 6	0239	IL-MB-NWS-G	
OUT 7	0240	IL-MB-NWS-R	
OUT 8	0241	IL-MB-NWS-B	
OUT 9	0242	IL-MB-NES-G	
OUT10	0243	IL-MB-NES-R	
OUT11	0244	IL-MB-NES-B	
OUT12	0245	SPARE	
OUT13	0246	SPARE	
OUT14	0247	SPARE	
OUT15	0248	SPARE	

DROP 2 SLOT 7
120VAC 16 PT. RELAY OUTPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
OUT 0	0249	IL-MOB-NWN-G	
OUT 1	0250	IL-MOB-NWN-R	
OUT 2	0251	IL-MOB-NWN-B	
OUT 3	0252	IL-MOB-NEN-G	
OUT 4	0253	IL-MOB-NEN-R	
OUT 5	0254	IL-MOB-NEN-B	
OUT 6	0255	IL-MOB-NWS-G	
OUT 7	0256	IL-MOB-NWS-R	
OUT 8	0257	IL-MOB-NWS-B	
OUT 9	0258	IL-MOB-NES-G	
OUT10	0259	IL-MOB-NES-R	
OUT11	0260	IL-MOB-NES-B	
OUT12	0261	SPARE	
OUT13	0262	SPARE	
OUT14	0263	SPARE	
OUT15	0264	SPARE	

DROP 2 SLOT 8
0-10VDC ANALOG OUTPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
CH1+	OUT1+	SPARE	
CH1-	OUT1-	SPARE	
CH2+	OUT2+	SPARE	
CH2-	OUT2-	SPARE	
CH3+	OUT3+	RPM-MOT-NWN	
CH3-	OUT3-	RPM-MOT-NWN	
CH4+	OUT4+	RPM-MOT-NWS	
CH4-	OUT4-	RPM-MOT-NWS	
CH5+	OUT5+	RPM-MOT-NEN	
CH5-	OUT5-	RPM-MOT-NEN	
CH6+	OUT6+	RPM-MOT-NES	
CH6-	OUT6-	RPM-MOT-NES	
CH7+	OUT7+	SPARE	
CH7-	OUT7-	SPARE	
CH8+	OUT8+	SPARE	
CH8-	OUT8-	SPARE	

DROP 2 SLOT 9
0-10VDC ANALOG OUTPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
CH1+	OUT9+	VM-MOT-NWN	
CH1-	OUT9-	VM-MOT-NWN	
CH2+	OUT10+	AM-MOT-NWN	
CH2-	OUT10-	AM-MOT-NWN	
CH3+	OUT11+	VM-MOT-NWS	
CH3-	OUT11-	VM-MOT-NWS	
CH4+	OUT12+	AM-MOT-NWS	
CH4-	OUT12-	AM-MOT-NWS	
CH5+	OUT13+	VM-MOT-NEN	
CH5-	OUT13-	VM-MOT-NEN	
CH6+	OUT14+	AM-MOT-NEN	
CH6-	OUT14-	AM-MOT-NEN	
CH7+	OUT15+	VM-MOT-NES	
CH7-	OUT15-	VM-MOT-NES	
CH8+	OUT16+	AM-MOT-NES	
CH8-	OUT16-	AM-MOT-NES	

WEST BOUND DROP 3 NORTHEAST PLC I/O CABINET

DROP 3 SLOT 1
120VAC 16 PT. INPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
IN 0	I301	TCNENOCU	
IN 1	I302	TCNENOCD	
IN 2	I303	TCNENOCHC	
IN 3	I304	TCNESOCU	
IN 4	I305	TCNESOCD	
IN 5	I306	TCNESOCHC	
IN 6	I307	ZS-MOBNENS	
IN 7	I308	ZS-MOBNENR	
IN 8	I309	ZS-MOBNENMR	
IN 9	I310	ZS-MOBNESS	
IN10	I311	ZS-MOBNESR	
IN11	I312	ZS-MOBNESMR	
IN12	I313	WCRR	
IN13	I314	WETREGT	
IN14	I315	DV-NE-N	DVNEN
IN15	I316	DV-NE-S	DVNES

DROP 3 SLOT 2
120VAC 16 PT. INPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
IN 0	I317	ZS-MBNENS	
IN 1	I318	ZS-MBNENR	
IN 2	I319	ZS-MBNENMR	
IN 3	I320	ZS-MBNESS	
IN 4	I321	ZS-MBNESR	
IN 5	I322	ZS-MBNESMR	
IN 6	I323	TCNENOCMCP	
IN 7	I324	TCNENOCF	
IN 8	I325	TCNENOCR	
IN 9	I326	TCNESOCMCP	
IN10	I327	TCNESOCF	
IN11	I328	TCNESOCR	
IN12	I329	MB-NE-N	MBNEN3
IN13	I330	MB-NE-S	MBNES3
IN14	I331	MOB-NE-N	MOBNEN3
IN15	I332	MOB-NE-S	MOBNES3

DROP 3 SLOT 3
120VAC 16 PT. INPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
IN 0	I333	ZS-NEFS	
IN 1	I334	ZS-NEFC	
IN 2	I335	ZS-NENC	
IN 3	I336	ZS-NENO	
IN 4	I337	ZS-NEFO	
IN 5	I338	MB-NE-N-MCP	MBNEN2
IN 6	I339	MB-NE-S-MCP	MBNES2
IN 7	I340	MOB-NE-N-MCP	DVNEN2
IN 8	I341	MOB-NE-S-MCP	DVNES2
IN 9	I342	NENDVR	NENDVR
IN10	I343	NENDVDT	NENDVDT
IN11	I344	NESDVR	NESDVR
IN12	I345	NESDVDT	NESDVDT
IN13	I346	ZS-NENOVSP	
IN14	I347	ZS-NESOVSP	
IN15	I348	SPARE	

DROP 3 SLOT 4
120VAC 16 PT. INPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
IN 0	I349	BGNEOCZSR	
IN 1	I350	BGNEOCZSL	
IN 2	I351	BGNEOCZSHC	
IN 3	I352	SPARE	
IN 4	I353	SPARE	
IN 5	I354	SPARE	
IN 6	I355	SPARE	
IN 7	I356	SPARE	
IN 8	I357	SPARE	
IN 9	I358	SPARE	
IN10	I359	SPARE	
IN11	I360	SPARE	
IN12	I361	SPARE	
IN13	I362	SPARE	
IN14	I363	SPARE	
IN15	I364	SPARE	

DROP 3 SLOT 5
120VAC 8 PT.
ISOLATED RELAY OUTPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
L1-0	0301		
OUT 0		SPARE	
L1-1	0302	CB2900	
OUT 1		TGNENOGR	
L1-2	0303	CB2900	
OUT 2		TGNENOGL	
L1-3	0304	CB2908	
OUT 3		TGNESOGR	
L1-4	0303	CB2908	
OUT 4		TGNESOGL	
L1-5	0306	CB3203	
OUT 5		MB-NE-N	
L1-6	0307	CB3208	
OUT 6		MB-NE-S	
L1-7	0308	CB3130	
OUT 7		NWCLP	

DROP 3 SLOT 6
120VAC 8 PT.
ISOLATED RELAY OUTPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
L1-0	0309	CLP3A	
OUT 0		NENRA	
L1-1	0310	CLP3A	
OUT 1		NENLO	
L1-2	0311	CB3301	
OUT 2		NENRN	
L1-3	0312	CB3301	
OUT 3		NENRS	
L1-4	0313	CB3301	
OUT 4		NENRDSP	
L1-5	0314	SPARE	
OUT 5		SPARE	
L1-6	0315	BGNECNT2	
OUT 6		BGNEOCR1	
L1-7	0316	BGNECNT2	
OUT 7		BGNEOCL1	

DROP 3 SLOT 7
120VAC 8 PT.
ISOLATED RELAY OUTPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
L1-0	0317	CLP2B	
OUT 0		SESRA	
L1-1	0318	CLP2B	
OUT 1		SESLO	
L1-2	0319	CB1301	
OUT 2		SESRN	
L1-3	0320	CB1301	
OUT 3		SESNRS	
L1-4	0321	CB1301	
OUT 4		SESRDSP	
L1-5	0322		
OUT 5			
L1-6	0323		
OUT 6			
L1-7	0324		
OUT 7			

DROP 3 SLOT 8
24VDC 4PT.
1-5VDC/4-20MADC ANALOG INPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
CH1+	AI301	V-MOT-NEN	
CH1-		V-MOT-NEN	
CH2+	AI302	A-MOT-NEN	
CH2-		A-MOT-NEN	
CH3+	AI303	RPM-MOT-NEN	
CH3-		RPM-MOT-NEN	
CH4+	AI304	SPARE	
CH4-		SPARE	

DROP 3 SLOT 9
24VDC 4PT.
1-5VDC/4-20MADC ANALOG INPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
CH1+	AI305	V-MOT-NES	
CH1-		V-MOT-NES	
CH2+	AI306	A-MOT-NES	
CH2-		A-MOT-NES	
CH3+	AI307	RPM-MOT-NES	
CH3-		RPM-MOT-NES	
CH4+	AI308	SPARE	
CH4-		SPARE	

NOTE:

1. ASTERISKS DENOTE THE CONTRACTOR SHALL CONNECT I/O POINTS IN THE SLOT AND POSITIONS INDICATED. CONTRACTOR SHALL REVISE ADDRESSES AS REQUIRED FOR THE EQUIPMENT PROVIDED AND FILL THE ADDRESS AND WIRE BLOCK ON THIS DRAWING "AS BUILT".

PB Americas, Inc.
230 WEST MONROE STREET,
SUITE 900
CHICAGO, IL. 60606

USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -	
FILE NAME = D160d61-sht-elc-121.dgn	DRAWN - S. SHARMA	REVISED -	
PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -	
PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WESTBOUND INPUT /OUTPUT POINT LIST
SHEET 1

SCALE: AS SHOWN | SHEET NO. E-121 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	392
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

WEST BOUND DROP 7 NORTHWEST PLC I/O CABINET

DROP 7 SLOT 1
120VAC 16 PT. INPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
IN 0	I701	TGNWNOGU	
IN 1	I702	TGNWNOGD	
IN 2	I703	TGNWNOGHG	
IN 3	I704	TGNWSOGU	
IN 4	I705	TGNWSOGD	
IN 5	I706	TGNWSOGHG	
IN 6	I707	ZS-MOBNWNS	
IN 7	I708	ZS-MOBNWNR	
IN 8	I709	ZS-MOBNWNMR	
IN 9	I710	ZS-MOBNWSS	
IN10	I711	ZS-MOBNWSR	
IN11	I712	ZS-MOBNWSMR	
IN12	I713	MB-NW-N	MBNWN3
IN13	I714	MB-NW-S	MBNWS3
IN14	I715	MOB-NW-N	DVNWN3
IN15	I716	MOB-NW-S	DVNWS3

DROP 7 SLOT 2
120VAC 16 PT. INPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
IN 0	I717	ZS-MBNWNS	
IN 1	I718	ZS-MBNWNR	
IN 2	I719	ZS-MBNWNMR	
IN 3	I720	ZS-MBNWSS	
IN 4	I721	ZS-MBNWSR	
IN 5	I722	ZS-MBNWSMR	
IN 6	I723	TGNWNOGMGP	
IN 7	I724	TGNWNOGF	
IN 8	I725	TGNWNOGR	
IN 9	I726	TGNWSOGMCP	
IN10	I727	TGNWSOGF	
IN11	I728	TGNWSOGR	
IN12	I729	ZS-CLNWND	
IN13	I730	ZS-CLNWNP	
IN14	I731	ZS-CLNWNHC	
IN15	I732	SPARE	

DROP 7 SLOT 3
120VAC 16 PT. INPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
IN 0	I733	ZS-NWFS	
IN 1	I734	ZS-NWFC	
IN 2	I735	ZS-NWNC	
IN 3	I736	ZS-NWNO	
IN 4	I737	ZS-NWFO	
IN 5	I738	ZS-CLNWSD	
IN 6	I739	ZS-CLNWSP	
IN 7	I740	ZS-CLNWSHC	
IN 8	I741	CLNWNMCP	
IN 9	I742	CLNWND	
IN10	I743	CLNWNP	
IN11	I744	CLNWSMCP	
IN12	I745	CLNWSD	
IN13	I746	CLNWSP	
IN14	I747	DV-NW-N	DVNWN4
IN15	I748	DV-NW-S	DVNWS4

DROP 7 SLOT 4
120VAC 16 PT. INPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
IN 0	I749	SPARE	
IN 1	I750	SPARE	
IN 2	I751	SPARE	
IN 3	I752	SPARE	
IN 4	I753	NWNDVR	
IN 5	I754	NWNDVDT	
IN 6	I755	NWSDVR	
IN 7	I756	NWSDVDT	
IN 8	I757	MB-NW-N-MCP	
IN 9	I758	MB-NW-S-MCP	
IN10	I759	MOB-NW-N-MCP	
IN11	I760	MOB-NW-S-MCP	
IN12	I761	ZS-NWNOVSP	
IN13	I762	ZS-NWSOVSP	
IN14	I763	SPARE	
IN15	I764	SPARE	

DROP 7 SLOT 5
120VAC 8 PT.
ISOLATED RELAY OUTPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
L1-0	O701	SPARE	
OUT 0		SPARE	
L1-1	O702	CB2921	
OUT 1		TGNWNOGR	
L1-2	O703	CB921	
OUT 2		TGNWNOGL	
L1-3	O704	CB2930	
OUT 3		TGNWSOGR	
L1-4	O705	CB2930	
OUT 4		TGNWSOGL	
L1-5	O706	SPARE	
OUT 5		SPARE	
L1-6	O707	SPARE	
OUT 6		SPARE	
L1-7	O708	SPARE	
OUT 7		SPARE	

DROP 7 SLOT 6
120VAC 8 PT.
ISOLATED RELAY OUTPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
L1-0	O709	CB3100	
OUT 0		CLNWND	
L1-1	O710	CB3100	
OUT 1		CLNWNP	
L1-2	O711	CB3108	
OUT 2		CLNWSD	
L1-3	O712	CB3108	
OUT 3		CLNWSP	
L1-4	O713	CB3223	
OUT 4		MB-NW-N	
L1-5	O714	CB3228	
OUT 5		MB-NW-S	
L1-6	O715	CB3233	
OUT 6		DVNWN1	
L1-7	O716	CB3238	
OUT 7		DVNWS1	

DROP 7 SLOT 7
120VAC 8 PT.
ISOLATED RELAY OUTPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
L1-0	O717	CLP3A	
OUT 0		NWNRA	
L1-1	O718	CLP3A	
OUT 1		NWNLO	
L1-2	O719	CB3501	
OUT 2		NWNRN	
L1-3	O720	CB3501	
OUT 3		NWNRS	
L1-4	O721	CB3501	
OUT 4		NWNRDSP	
L1-5	O722		
OUT 5			
L1-6	O723		
OUT 6			
L1-7	O724		
OUT 7			

DROP 7 SLOT 8
120VAC 8 PT.
ISOLATED RELAY OUTPUT MODULE

PT	ADDR *	TAGNAME	WIRE #
L1-0	O725	CLP3B	
OUT 0		NWSRA	
L1-1	O726	CLP3B	
OUT 1		NWSLO	
L1-2	O727	CB3501	
OUT 2		NWSRN	
L1-3	O728	CB3501	
OUT 3		NWSNRS	
L1-4	O729	CB3501	
OUT 4		NWSRDSP	
L1-5	O730		
OUT 5			
L1-6	O731		
OUT 6			
L1-7	O732		
OUT 7			

DROP 7 SLOT 9
24VDC 4PT.
1-5VDC/4-20MADC ANALOG INPUT MODULE

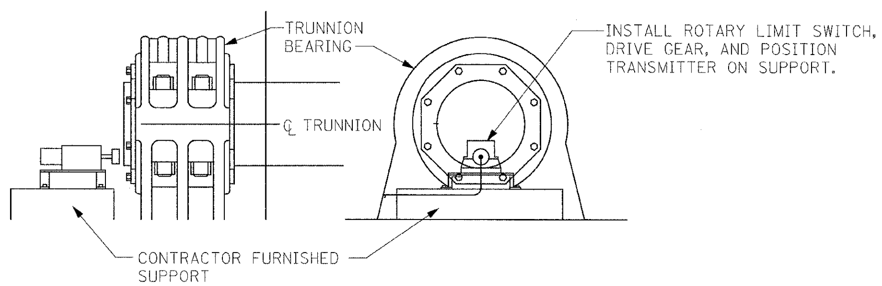
PT	ADDR *	TAGNAME	WIRE #
CH1+	AI701	V-MOT-NWN	
CH1-		V-MOT-NWN	
CH2+	AI702	A-MOT-NWN	
CH2-		A-MOT-NWN	
CH3+	AI703	RPM-MOT-NWN	
CH3-		RPM-MOT-NWN	
CH4+	AI704	SPARE	
CH4-		SPARE	

DROP 7 SLOT 10
24VDC 4PT.
1-5VDC/4-20MADC ANALOG INPUT MODULE

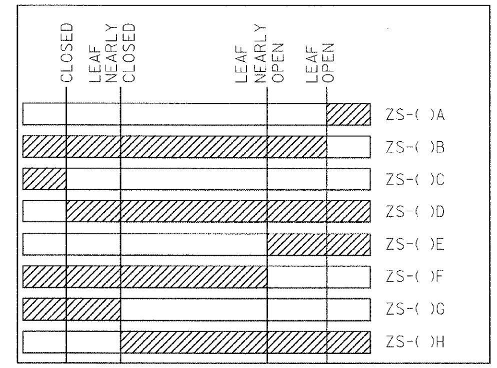
PT	ADDR *	TAGNAME	WIRE #
CH1+	AI705	V-MOT-NWS	
CH1-		V-MOT-NWS	
CH2+	AI706	A-MOT-NWS	
CH2-		A-MOT-NWS	
CH3+	AI707	RPM-MOT-NWS	
CH3-		RPM-MOT-NWS	
CH4+	AI708		
CH4-			

NOTE:

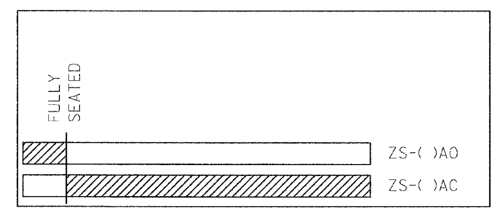
1. ASTERISKS DENOTE THE CONTRACTOR SHALL CONNECT I/O POINTS IN THE SLOT AND POSITIONS INDICATED. CONTRACTOR SHALL REVISE ADDRESSES AS REQUIRED FOR THE EQUIPMENT PROVIDED AND FILL THE ADDRESS AND WIRE BLOCK ON THIS DRAWING "AS BUILT".



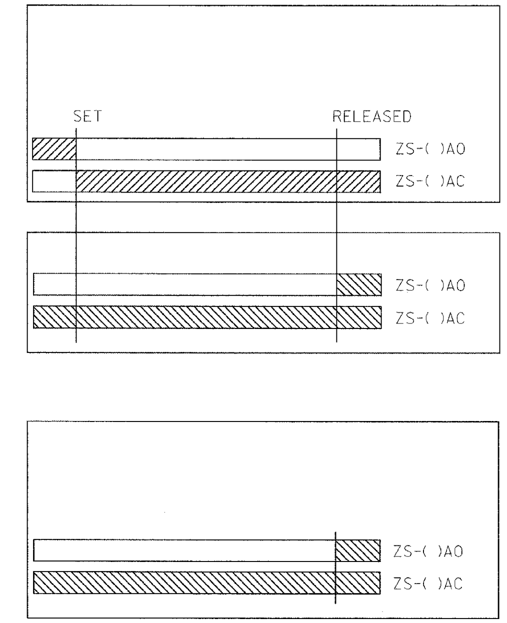
DETAIL 4
ROTARY LIMIT SWITCH AND POSITION TRANSMITTER
N.T.S.



ROTARY LIMIT SWITCHES
ZS-NE, ZS-NW, ZS-SE & ZS-SW



FULLY SEATED LIMIT SWITCHES
ZS-NEFS, ZS-NWFS, ZS-SEFS & ZS-SWFS



BRAKE LIMIT SWITCHS
MOTOR BRAKES, ZS-MOBNEN, ZS-MOBNES, ZS-MOBNWN, ZS-MOBNWS, ZS-MOBSEN, ZS-MOBSES, ZS-MOBSWN, ZS-MOBSWS

MACHINE BRAKES, ZS-MBNEN, ZS-MBNES, ZS-MBNWN, ZS-MBNWS, ZS-MBSEN, ZS-MBSES, ZS-MBSWN, ZS-MBSWS

PB Americas, Inc.
230 WEST MONROE STREET,
SUITE 900
CHICAGO, IL. 60606

USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -	
FILE NAME = D162d61-sht-elc-123.dgn	DRAWN - S. SHARMA	REVISED -	
PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -	
PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -	

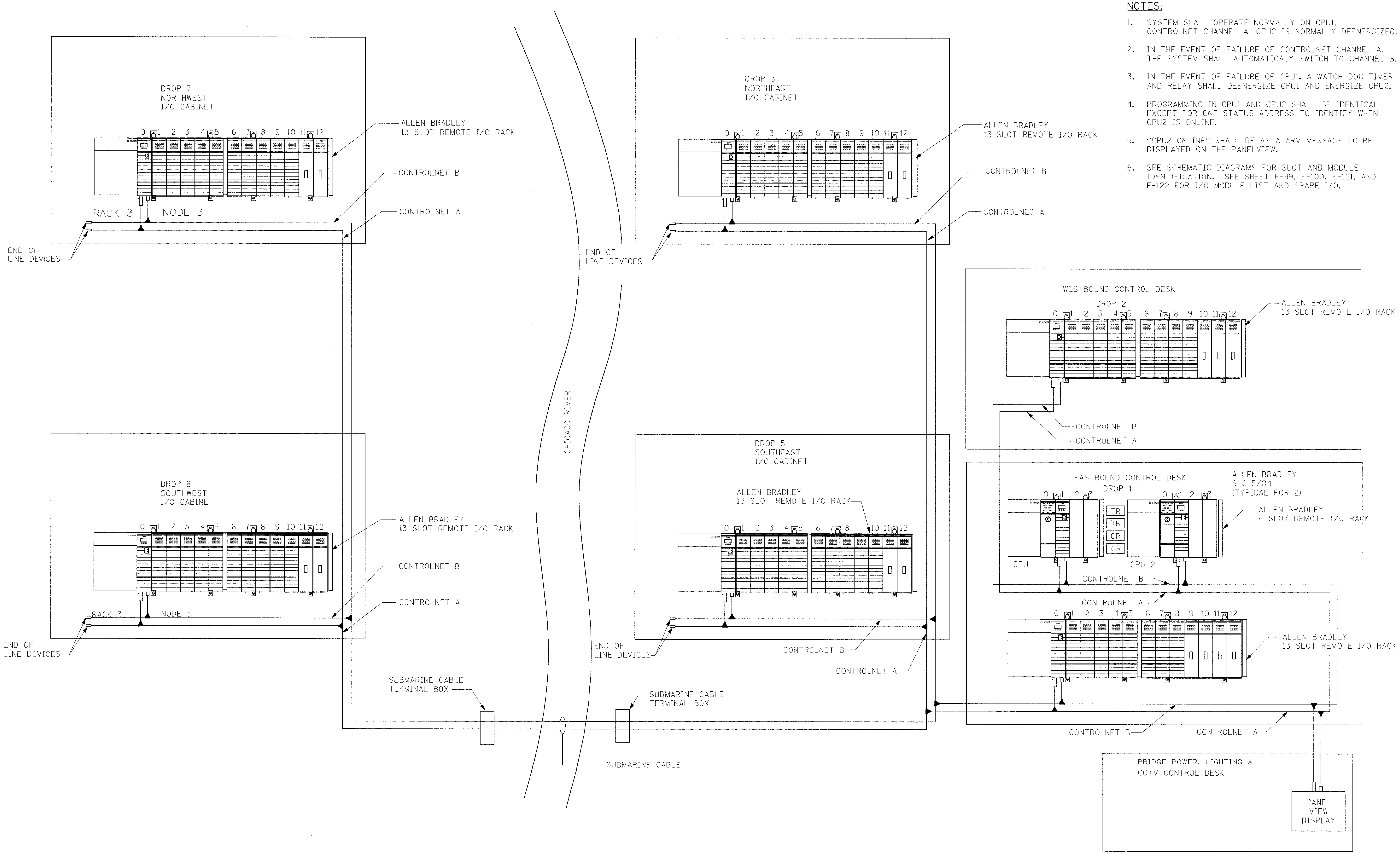
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE CONTROL DETAILS
SHEET 1

SCALE: AS SHOWN | SHEET NO. E-123 OF E-125 SHEETS | STA. 379+06.09 TO STA. 382+45.28

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	394
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



NOTES:

1. SYSTEM SHALL OPERATE NORMALLY ON CPU1, CONTROLNET CHANNEL A. CPU2 IS NORMALLY DEENERGIZED.
2. IN THE EVENT OF FAILURE OF CONTROLNET CHANNEL A, THE SYSTEM SHALL AUTOMATICALY SWITCH TO CHANNEL B.
3. IN THE EVENT OF FAILURE OF CPU1, A WATCH DOG TIMER AND RELAY SHALL DEENERGIZE CPU1 AND ENERGIZE CPU2.
4. PROGRAMMING IN CPU1 AND CPU2 SHALL BE IDENTICAL EXCEPT FOR ONE STATUS ADDRESS TO IDENTIFY WHEN CPU2 IS ONLINE.
5. "CPU2 ONLINE" SHALL BE AN ALARM MESSAGE TO BE DISPLAYED ON THE PANELVIEW.
6. SEE SCHEMATIC DIAGRAMS FOR SLOT AND MODULE IDENTIFICATION. SEE SHEET E-99, E-100, E-121, AND E-122 FOR I/O MODULE LIST AND SPARE I/O.

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL 60606	USER NAME = sharma	DESIGNED - B. CROUTHAMEL	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**PLC ARCHITECTURE DIAGRAM**
	FILE NAME = D162d61-sht-elc-124.dgn	DRAWN - S. SHARMA	REVISED -		
	PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -		
	PLOT DATE = 5/7/2009	DATE - MAY 8, 2009	REVISED -		SCALE: AS SHOWN / SHEET NO. E-124 OF E-125 SHEETS / STA. 379+06.09 TO STA. 382+45.28

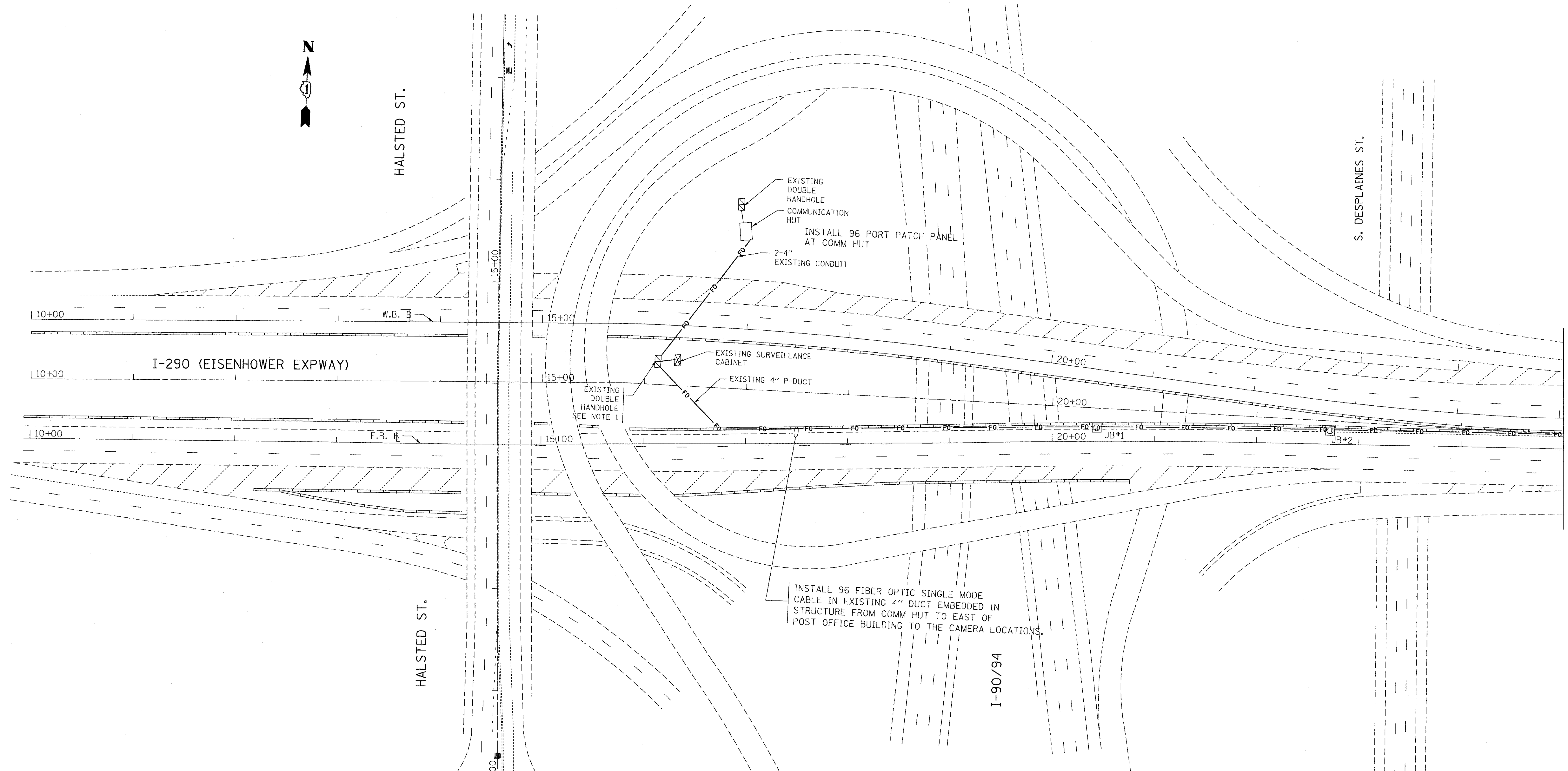
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	395
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONDUIT AND WIRE SCHEDULE

CONDUIT NO.	SIZE	FROM	TO	CONDUCTORS ACTIVE	GROUND	SPARES	SERVICE
C337	2"	JBOX JL1	JBOX JL2	20#12, 2 #8	1 #8	6 #12	-
C338	2"	JBOX JL2	JBOX JL4	20#12	1 #8	6 #12	-
C339	1"	JBOX JL4	CONDUIT BODY (1")	6 #12	1 #12	-	-
C340	3/4"	CONDUIT BODY (1")	ZS-NWFC	4 #12	-	-	ZS-NWFC
C341	3/4"	CONDUIT BODY (1")	ZS-NWFO2	2 #12	-	-	ZS-NWFO2
C342	3/4"	JBOX JL4	ZS-NWFO	4 #12	-	-	ZS-NWFO
C343	1"	JBOX JL4	CONDUIT BODY (1")	8 #12	1 #12	-	ZS-NWNC, ZS-NWNO
C344	3/4"	CONDUIT BODY (1")	ZS-NWNC	4 #12	-	-	ZS-NWNC
C345	3/4"	CONDUIT BODY (1")	ZS-NWNO	4 #12	-	-	ZS-NWNO
C345A	3/4"	JBOX JL4	ZT-NW	2 #12	1 #12	-	ZT-NW ENCLOSURE HEATER
C346	1 1/4"	JBOX JL1	CONDUIT BODY (1 1/4")	18 #12	1 #12	-	-
C346A	1 1/4"	CONDUIT BODY (1 1/4")	CONDUIT BODY (1 1/4")	12 #12	1 #12	-	ZS-MBNWNS,ZS-MBNWNR,ZS-MBNWNMR
C347	3/4"	CONDUIT BODY (1 1/4")	ZS-MBNWNS	4 #12	-	-	ZS-MBNWNS
C348	1"	CONDUIT BODY (1 1/4")	CONDUIT BODY (1")	8 #12	-	-	ZS-MBNWNR, ZS-MBNWNMR
C349	3/4"	CONDUIT BODY (1")	ZS-MBNWNR	4 #12	-	-	ZS-MBNWNR
C350	3/4"	CONDUIT BODY (1")	ZS-MBNWNMR	4 #12	-	-	ZS-MBNWNMR
C351	1"	CONDUIT BODY (1 1/4")	CONDUIT BODY (1")	6 #12	1 #12	-	ZS-MOBNWNS, ZS-MOBNWNR, ZS-MOBNWNMR
C352	3/4"	CONDUIT BODY (1")	ZS-MOBNWNS	2 #12	-	-	ZS-MOBNWNS
C353	3/4"	CONDUIT BODY (1")	CONDUIT BODY (3/4")	4 #12	-	-	ZS-MOBNWNR, ZS-MOBNWNMR
C354	3/4"	CONDUIT BODY (3/4")	ZS-MOBNWNR	2 #12	-	-	ZS-MOBNWNR
C355	3/4"	CONDUIT BODY (3/4")	ZS-MOBNWNMR	2 #12	-	-	ZS-MOBNWNMR
C356	1 1/4"	JBOX JL1	JBOX JL7	10 #12	1 #8	6 #12	-
C357	1"	JBOX JL7	CONDUIT BODY (1")	6 #12	1 #12	-	-
C358	-	CONDUIT BODY (1")	ZS-TGNWNOGUA	2 #12	-	-	ZS-TGNWNOGUA
C359	-	CONDUIT BODY (1")	ZS-TGNWNOGDA	2 #12	-	-	ZS-TGNWNOGDA
C360	-	CONDUIT BODY (1")	ZS-TGNWNOGHC	2 #12	-	-	ZS-TGNWNOGHC
C361	3/4"	JBOX JL7	CONDUIT BODY (3/4")	4 #12	1 #12	-	DS-BF, DS-BR, ZS-NWNOGUB, ZS-NWNOGDB
C362	-	CONDUIT BODY (3/4")	DS-BF	2 #12	-	-	DS-BF
C363	-	DS-BF	DS-BR	2 #12	-	-	DS-BR
C364	-	DS-BR	ZS-NWNOGUB	1 #12	-	-	ZS-NWNOGUB
C365	-	DS-BR	ZS-NWNOGDB	1 #12	-	-	ZS-NWNOGDB
C366	-	ZS-NWNOGUB	CONDUIT BODY (3/4")	1 #12	-	-	ZS-NWNOGUB
C367	-	ZS-NWNOGDB	CONDUIT BODY (3/4")	1 #12	-	-	ZS-NWNOGDB
C368	3/4"	JBOX JL2	JBOX JL3	2 #8	1 #10	-	PL-W1, PL-W2, DL-W1
C369	3/4"	JBOX JL3	PL-W2	2 #10	1 #12	-	PL-W2
C370	3/4"	JBOX JL3	JBOX JL5	2 #8	1 #10	-	PL-W1, DL-W1
C371	3/4"	JBOX JL5	PL-W1	2 #10	1 #12	-	PL-W1
C372	3/4"	JBOX JL5	JBOX JL6	2 #8	1 #10	-	DL-W1
C372A	-	JBOX JL6	DL-W1	SUBMARINE CABLE 2 #10 AND 1 #12G		-	DL-W1
C373	2 1/2"	JBOX JLK4	JBOX JK5	24 #12, 3 #8	1 #8	12 #12	-
C374	3/4"	JBOX JK5	NL-NW-S	2 #10	1 #12	-	NL-NW-S
C375	1 1/4"	JBOX JK5	CONDUIT BODY (1 1/4")	12 #12	-	-	-
C376	3/4"	CONDUIT BODY (1 1/4")	ZS-CLNWSPBC	2 #12	-	-	ZS-CLNWSPBC
C377	1 1/4"	CONDUIT BODY (1 1/4")	CONDUIT BODY (1 1/4")	10 #12	-	-	-
C378	3/4"	CONDUIT BODY (1 1/4")	ZS-CLNWSDAC	2 #12	-	-	ZS-CLNWSDAC
C379	1"	CONDUIT BODY (1 1/4")	CONDUIT BODY (1")	8 #12	-	-	-
C380	3/4"	CONDUIT BODY (1")	ZS-CLNWSD	2 #12	-	-	ZS-CLNWSD
C381	1"	CONDUIT BODY (1")	CONDUIT BODY (1")	6 #12	-	-	-
C382	3/4"	CONDUIT BODY (1")	ZS-CLNWSP	2 #12	-	-	ZS-CLNWSP
C383	1"	CONDUIT BODY (1")	CONDUIT BODY (1")	4 #12	-	-	-
C384	3/4"	CONDUIT BODY (1")	ZS-CLNWSHC	2 #12	-	-	ZS-CLNWSHC
C385	3/4"	CONDUIT BODY (1")	CLNWSHCSOL	2 #12	-	-	CLNWSHCSOL
C386	1 1/2"	JBOX JK5	JBOX JK6	12 #12, 2#8	1 #8	6 #10	-
C387	3/4"	JBOX JK6	NL-NW-N	2 #10	1 #12	-	-
C388	1 1/4"	JBOX JK6	CONDUIT BODY (1 1/4")	12 #12	1 #12	-	-
C389	3/4"	CONDUIT BODY (1 1/4")	ZS-CLNWNPBC	2 #12	-	-	ZS-CLNWNPBC
C390	1 1/4"	CONDUIT BODY (1 1/4")	CONDUIT BODY (1 1/4")	10 #12	-	-	-
C391	3/4"	CONDUIT BODY (1 1/4")	ZS-CLNWNDAC	2 #12	-	-	ZS-CLNWNDAC
C392	1"	CONDUIT BODY (1 1/4")	CONDUIT BODY (1")	8 #12	-	-	-

CONDUIT AND WIRE SCHEDULE

CONDUIT NO.	SIZE	FROM	TO	CONDUCTORS ACTIVE	GROUND	SPARES	SERVICE
C393	3/4"	CONDUIT BODY (1")	ZS-CLNWND	2 #12	-	-	ZS-CLNWND
C394	1"	CONDUIT BODY (1")	CONDUIT BODY (1")	6 #12	-	-	-
C395	3/4"	CONDUIT BODY (1")	ZS-CLNWNP	2 #12	-	-	ZS-CLNWNP
C396	1"	CONDUIT BODY (1")	CONDUIT BODY (1")	4 #12	-	-	-
C397	3/4"	CONDUIT BODY (1")	ZS-CLNWNHC	2 #12	-	-	ZS-CLNWNHC
C398	3/4"	CONDUIT BODY (1")	ZS-CLNWNHCSOL	2 #12	-	-	ZS-CLNWNHCSOL
C399	3/4"	JBOX JK8	JBOX J	8 #12	-	-	PL-W4
C400	3/4"	JBOX J	PL-W4	2 #10	1 #12	-	PL-W4
C401	1"	JBOX JK8	JBOX JK9	4 #8	1 #10	-	PL-W3, NL-SW-N, NL-SW-S
C402	3/4"	JBOX JK9	PL-W3	2 #10	1 #12	-	PL-W3
C403	3/4"	JBOX JK9	JBOX JK10	3 #8	1 #10	-	NL-SW-N, NL-SW-S
C404	3/4"	JBOX JK10	NL-SW-N	2 #10	1 #12	-	NL-SW-N
C405	3/4"	JBOX JK10	NL-SW-S	2 #10	1 #12	-	NL-SW-S
C406	2 1/2"	SW DROP 8 IO CABINET	JBOX JK7A	26 #12	1 #10	12 #12	-
C406A	3/4"	JBOX JK7A	JBOX JK7	2 #12	1 #12	-	ZS-SWFO2
C406B	2 1/2"	JBOX JK7A	JBOX JK11	24 #12	1 #10	12 #12	-
C407	1 1/4"	JBOX JK11	CONDUIT BODY (1 1/4")	12 #12	1 #12	-	-
C408	3/4"	CONDUIT BODY (1 1/4")	ZS-CLSWND	2 #12	-	-	ZS-CLSWND
C409	1 1/4"	CONDUIT BODY (1 1/4")	CONDUIT BODY (1 1/4")	10 #12	-	-	-
C410	3/4"	CONDUIT BODY (1 1/4")	ZS-CLSWNP	2 #12	-	-	ZS-CLSWNP
C411	1"	CONDUIT BODY (1 1/4")	CONDUIT BODY (1")	8 #12	-	-	-
C412	3/4"	CONDUIT BODY (1")	ZS-CLSWNHC	2 #12	-	-	ZS-CLSWNHC
C413	1"	CONDUIT BODY (1")	CONDUIT BODY (1")	6 #12	-	-	-
C414	3/4"	CONDUIT BODY (1")	CLSWNHCSOC	2 #12	-	-	CLSWNHCSOC
C415	1"	CONDUIT BODY (1")	CONDUIT BODY (1")	4 #12	-	-	-
C416	3/4"	CONDUIT BODY (1")	ZS-CLSWNDAC	2 #12	-	-	ZS-CLSWNDAC
C417	3/4"	CONDUIT BODY (1")	ZS-CLSWNPBC	2 #12	-	-	ZS-CLSWNPBC
C418	1 1/4"	JBOX K11	CONDUIT BODY (1 1/4")	12 #12	1 #12	-	-
C419	3/4"	CONDUIT BODY (1 1/4")	ZS-CLSWSD	2 #12	-	-	ZS-CLSWSD
C420	1 1/4"	CONDUIT BODY (1 1/4")	CONDUIT BODY (1 1/4")	10 #12	-	-	-
C421	3/4"	CONDUIT BODY (1 1/4")	ZS-CLSWSP	2 #12	-	-	ZS-CLSWSP
C422	1"	CONDUIT BODY (1 1/4")	CONDUIT BODY (1")	8 #12	-	-	-
C423	3/4"	CONDUIT BODY (1")	ZS-CLSWSHC	2 #12	-	-	ZS-CLSWSHC
C424	1"	CONDUIT BODY (1")	CONDUIT BODY (1")	6 #12	-	-	-
C425	3/4"	CONDUIT BODY (1")	CLSWSHCSOL	2 #12	-	-	CLSWSHCSOL
C426	1"	CONDUIT BODY (1")	CONDUIT BODY (1")	4 #12	-	-	-
C427	3/4"	CONDUIT BODY (1")	ZS-CLSWSDAC	2 #12	-	-	ZS-CLSWSDAC
C428	3/4"	CONDUIT BODY (1")	ZS-CLSWSPBC	2 #12	-	-	ZS-CLSWSPBC
C429	3"	NW DROP 7 IO CABINET	CONDUIT BODY (3")	32 #12	1 #12	24 #12	SEE DWGS E-108, E-117, E-118
C430	2"	CONDUIT BODY (3")	DV-NW-S DRIVE 2	16 #12	1 #12	12 #12	-
C431	2"	CONDUIT BODY (3")	DV-NW-N DRIVE 1	16 #12	1 #12	12 #12	-
C432	1 1/4"	CONDUIT BODY (2")	DV-NW-S DRIVE 2	3TSP #14	1 #12	2TSP #14	ANALOG INPUTS FOR MOTOR VOLTS, AMPS AND RPM
C433	1 1/4"	CONDUIT BODY (2")	DV-NW-N DRIVE 1	3TSP #14	1 #12	2TSP #14	ANALOG INPUTS FOR MOTOR VOLTS, AMPS AND RPM

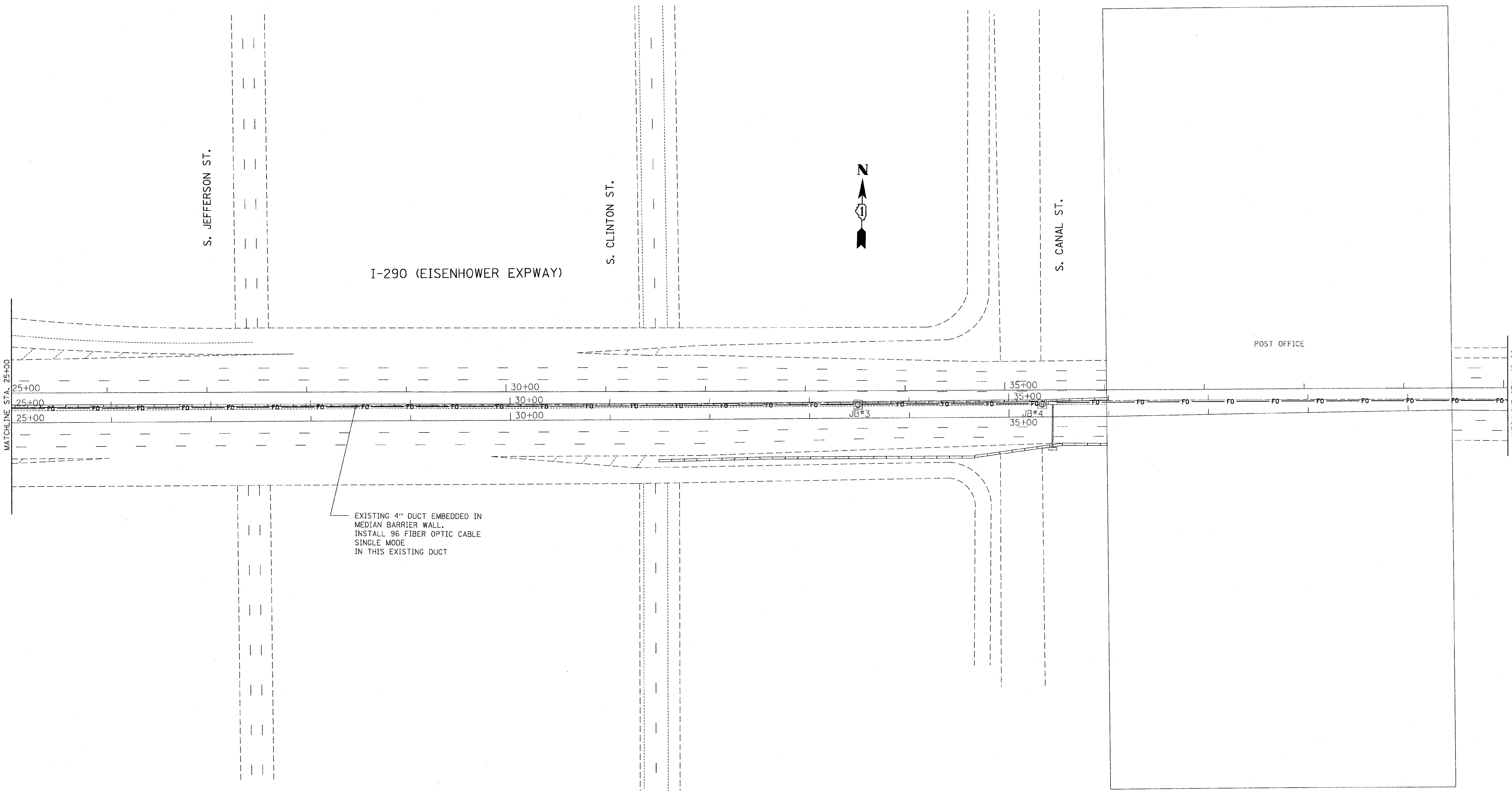


NOTE 1

THE CONTRACTOR SHALL CORE THE EXISTING DOUBLE HANDHOLE TO ESTABLISH CONTINUITY OF ALL CONDUITS FRONM THE COMMON HUT TO THE I-290 CONDUIT EMBEDDED IN STRUCTURE. 100ft. OF SLACK FIBER OPTIC CABLE SHALL BE PLACED IN THIS DOUBLE HANDHOLE.

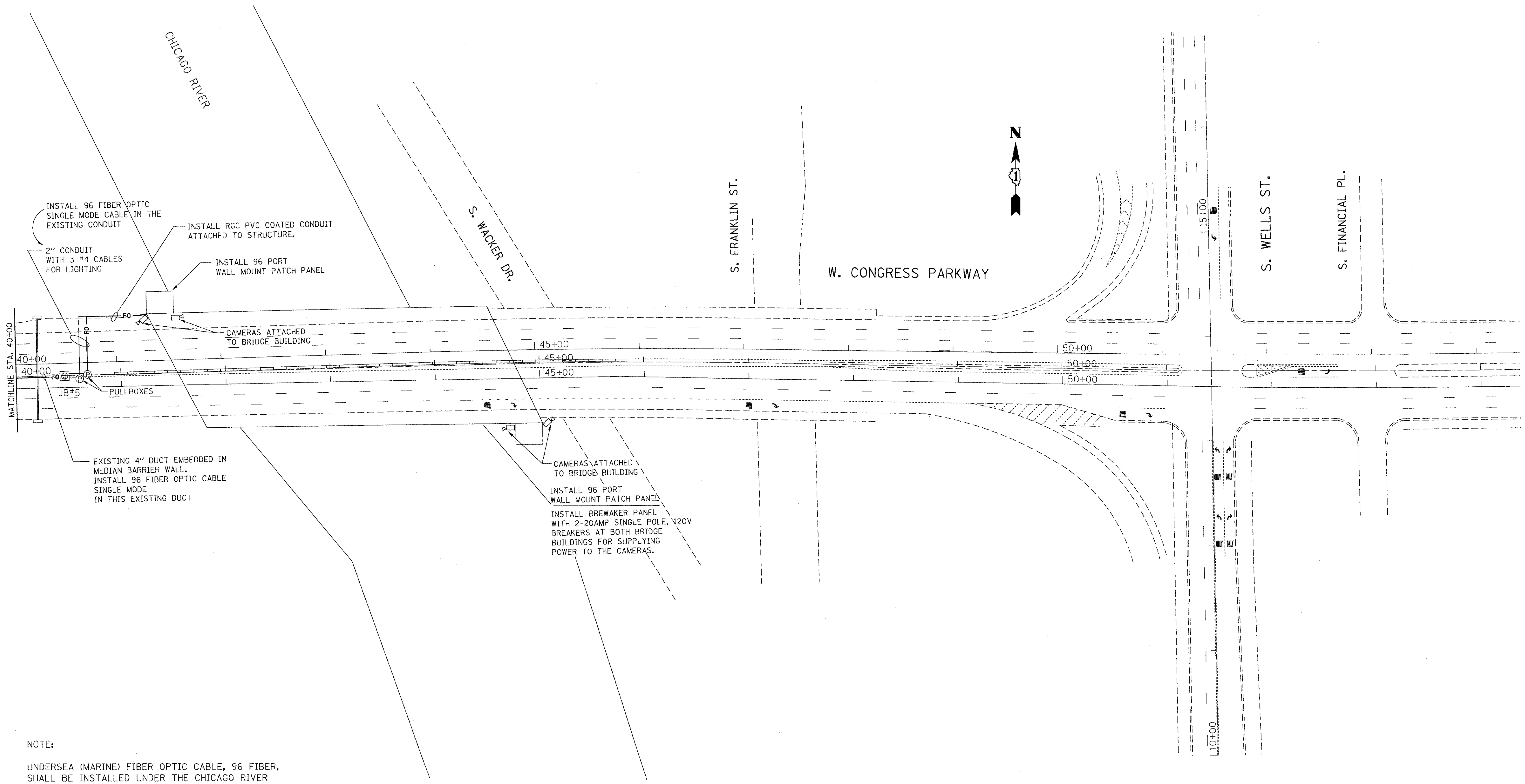
ADDENDUM - NEW SHEET - JULY 14, 2009

FILE NAME = $FILEL$	USER NAME = sharma	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-290 (EISENHOWER EXPWAY) CCTV FIBER PLANS	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			290		COOK		396A
	PLOT SCALE = NONE	CHECKED -	REVISED -			CONTRACT NO. 60D61				
	PLOT DATE = 7/14/2009	DATE -	REVISED -		SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



ADDENDUM - NEW SHEET - JULY 14, 2009

FILE NAME = $FILEL$	USER NAME = sharma	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-290 (EISENHOWER EXPWAY) CCTV FIBER PLANS	F.A.I RTE. 290
		DRAWN -	REVISED -			SECTION
	PLOT SCALE = NONE	CHECKED -	REVISED -		SCALE: 1"=50'	COUNTY COOK
	PLOT DATE = 7/14/2009	DATE -	REVISED -		SHEET NO. OF SHEETS STA. TO STA.	TOTAL SHEETS 3968 SHEET NO.
						CONTRACT NO. 60D61
						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



NOTE:

UNDERSEA (MARINE) FIBER OPTIC CABLE, 96 FIBER, SHALL BE INSTALLED UNDER THE CHICAGO RIVER TO ESTABLISH FIBER OPTIC CABLE CONTINUITY BETWEEN THE BRIDGE BUILDINGS.

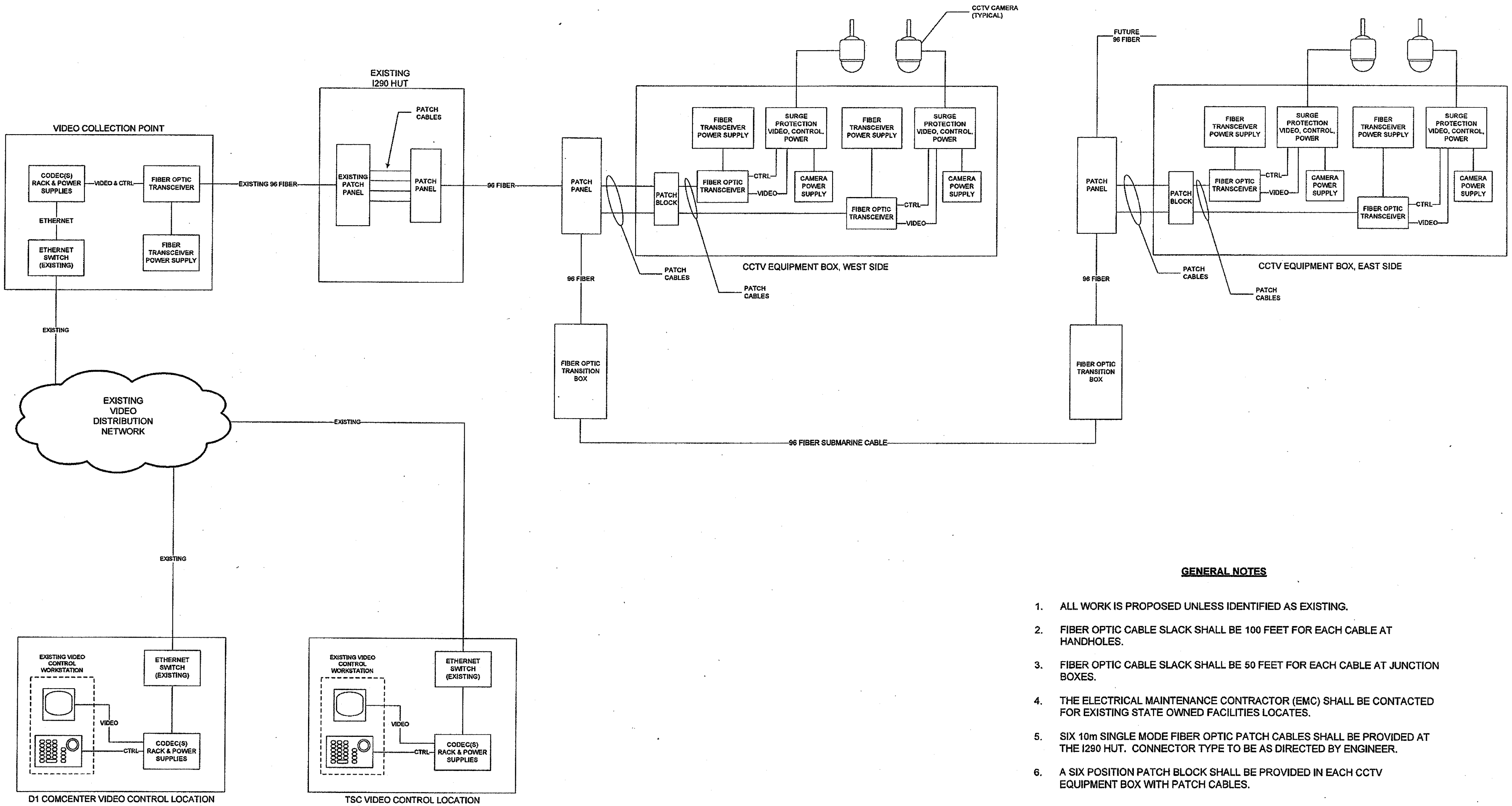
ADDENDUM - NEW SHEET - JULY 14, 2009

FILE NAME = $FILEL$	USER NAME = sharma	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		DRAWN -	REVISED -	
	PLOT SCALE = NONE	CHECKED -	REVISED -	
	PLOT DATE = 7/14/2009	DATE -	REVISED -	

I-290 (EISENHOWER EXPWAY)
CCTV FIBER PLANS

SCALE: 1"=50'	SHEET NO. OF SHEETS	STA.	TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290		COOK		396C
		CONTRACT NO. 60D61		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

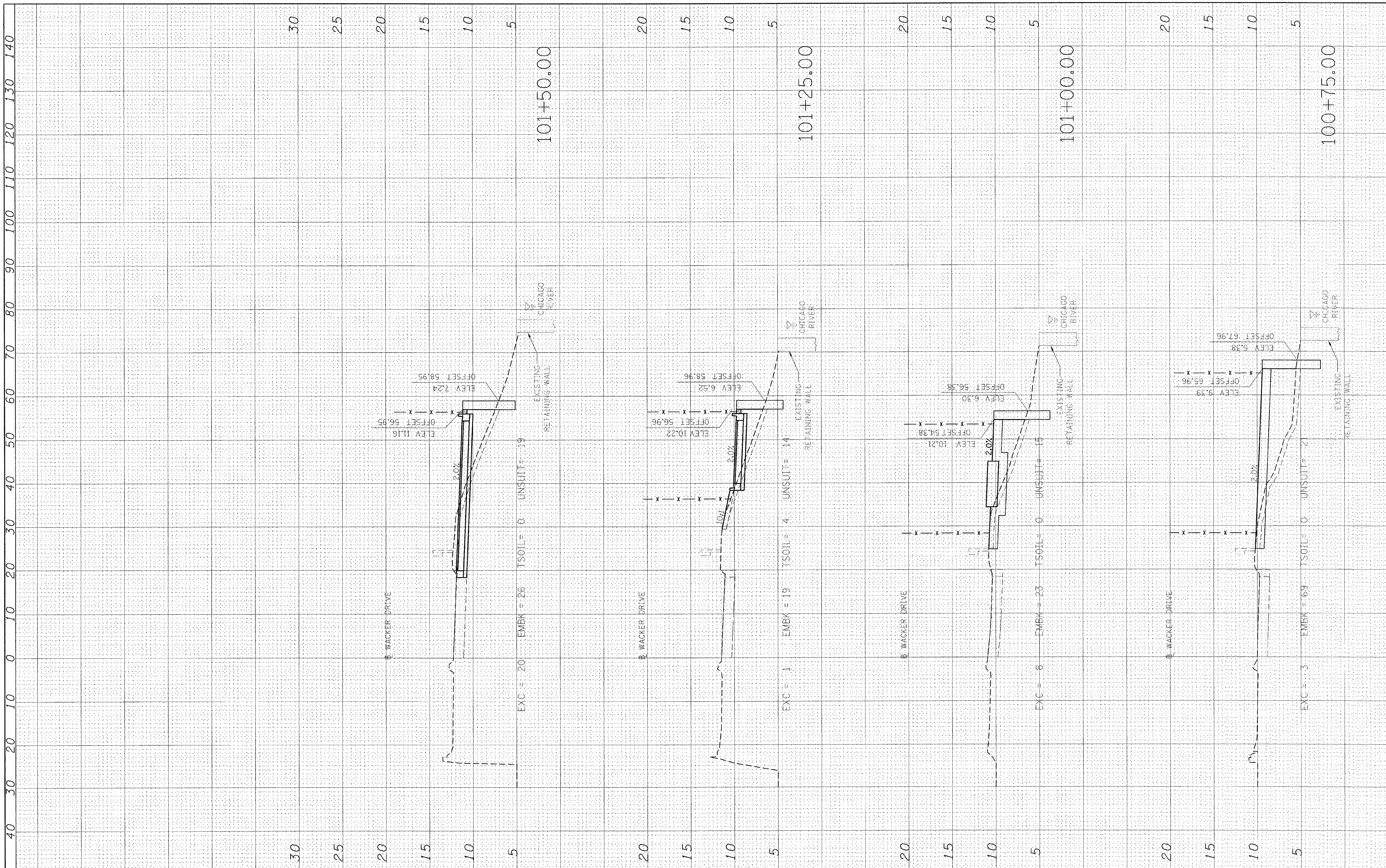


GENERAL NOTES

1. ALL WORK IS PROPOSED UNLESS IDENTIFIED AS EXISTING.
2. FIBER OPTIC CABLE SLACK SHALL BE 100 FEET FOR EACH CABLE AT HANDHOLES.
3. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT JUNCTION BOXES.
4. THE ELECTRICAL MAINTENANCE CONTRACTOR (EMC) SHALL BE CONTACTED FOR EXISTING STATE OWNED FACILITIES LOCATES.
5. SIX 10m SINGLE MODE FIBER OPTIC PATCH CABLES SHALL BE PROVIDED AT THE I290 HUT. CONNECTOR TYPE TO BE AS DIRECTED BY ENGINEER.
6. A SIX POSITION PATCH BLOCK SHALL BE PROVIDED IN EACH CCTV EQUIPMENT BOX WITH PATCH CABLES.

ADDENDUM - NEW SHEET - JULY 14, 2009

FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CCTV SYSTEM BLOCK DIAGRAM	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN	REVISED			389	2424-2B-R	COOK		396D
	PLOT SCALE	CHECKED	REVISED		SCALE: NONE · SHEET NO. __ OF __ SHEETS · STA. 379+06.09 TO STA. 382+45.28			CONTRACT NO. 60D61		
	PLOT DATE	DATE	REVISED					ILLINOIS · FED. AID PROJECT		



PB Americas, Inc.
230 WEST MONROE STREET,
SUITE 900
CHICAGO, IL. 60606

USER NAME = $USER$
PLOT SCALE = $SCALE$
PLOT DATE = 5/7/2009

DESIGNED - DM
CHECKED - MS
DRAWN - DS
CHECKED - 5/08/09

REVISED -
REVISED -
REVISED -
REVISED -

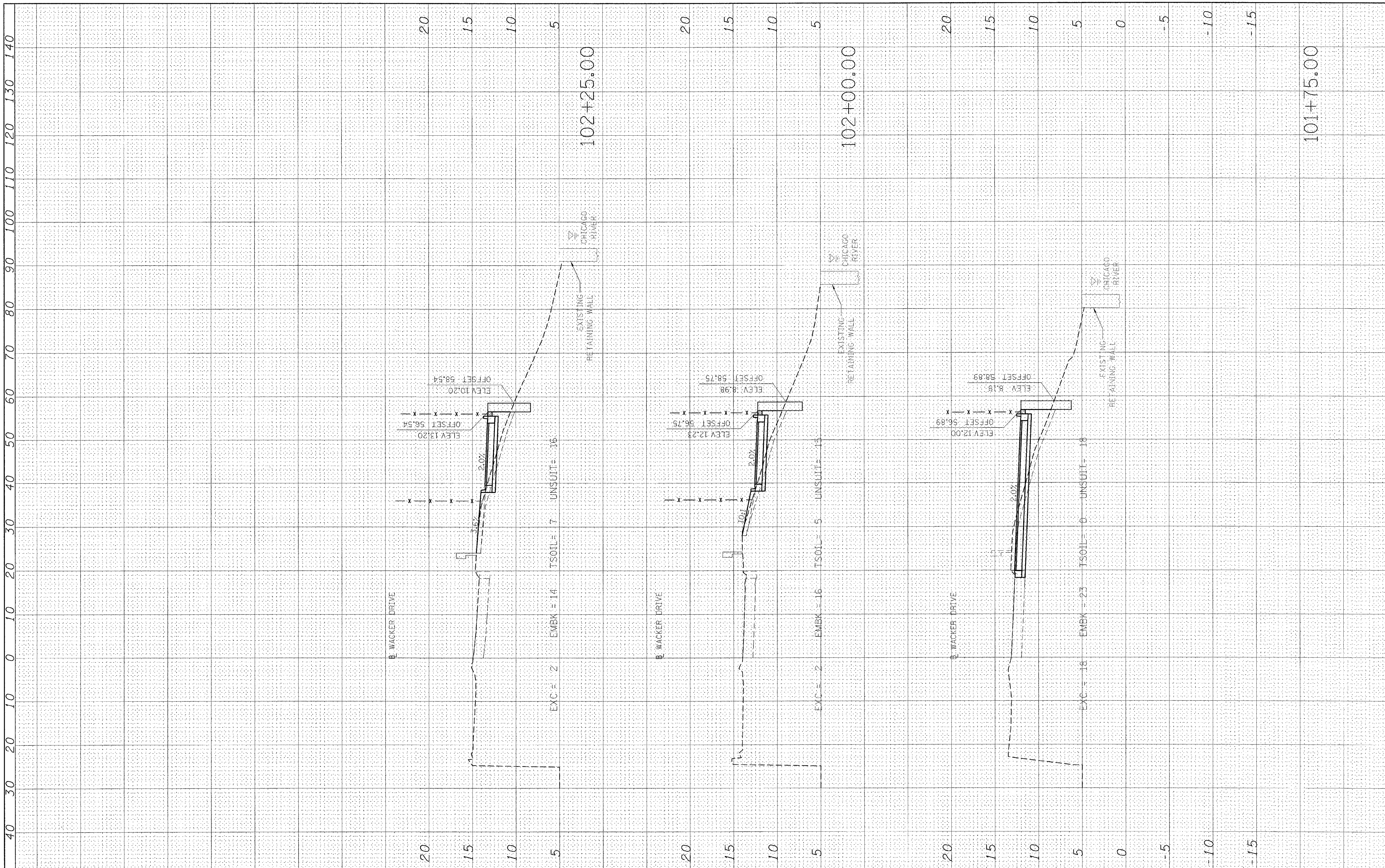
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONGRESS PARKWAY OVER SOUTH BRANCH OF THE CHICAGO RIVER
ACCESS DRIVE CROSS SECTION

SCALE: 1" =10' | SHEET NO. 82 OF 83 SHEETS | STA. 100+75.00 TO STA. 101+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R	COOK	398	397
		CONTRACT NO. 60D61		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



PB Americas, Inc.
230 WEST MONROE STREET,
SUITE 900
CHICAGO, IL. 60606

USER NAME = $USER$	DESIGNED - DM	REVISED -	
	CHECKED - MS	REVISED -	
PLOT SCALE = $SCALE$	DRAWN - DS	REVISED -	
PLOT DATE = 5/7/2009	CHECKED - 5/08/09	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONGRESS PARKWAY OVER SOUTH BRANCH OF THE CHICAGO RIVER
ACCESS DRIVE CROSS SECTION

SCALE: | SHEET NO. 83 OF 83 SHEETS | STA. 101+75.00 TO STA. 102+25.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2424-2B-R		398	398

CONTRACT NO. 60D61

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT