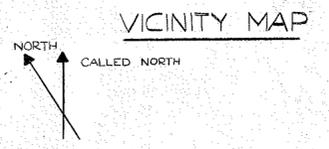
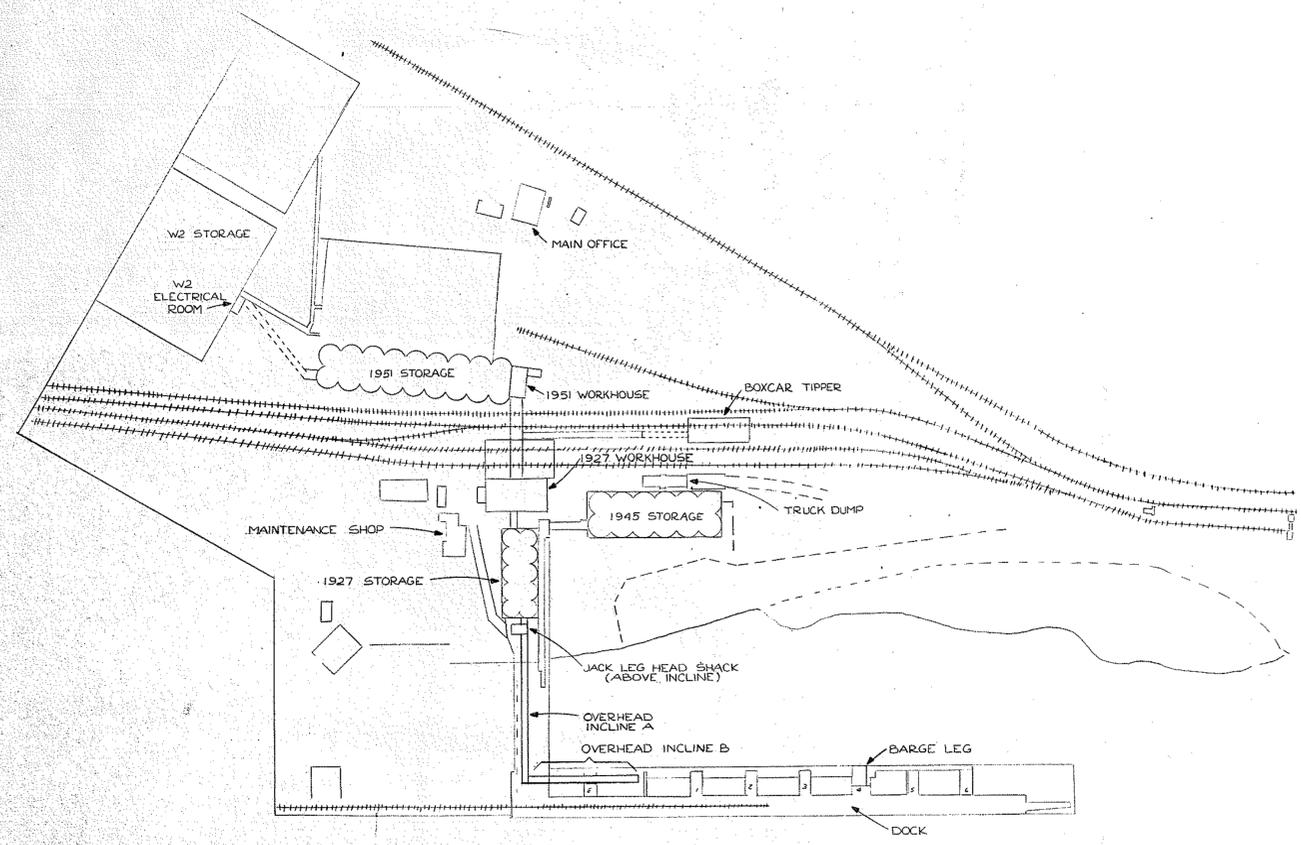


DRAWING NUMBER
B384

DRAWING NUMBER

DRAWING NUMBER

DRAWING NUMBER



LEGEND

- LA-2 HOME RUN - DESTINATION SHOWN
- OR #/G EXPOSED CONDUIT AND CONDUCTORS *
- OR #/G CONCEALED CONDUIT AND CONDUCTORS *
- * NOTE: ALL UNMARKED CONDUIT RUNS CONSIST OF TWO NO. 12 TW CONDUCTORS IN CONDUIT. RUNS MARKED WITH CROSS-HATCHES INDICATE NUMBER OF NO. 12 TW WIRE. CROSS-HATCH WITH SUBSCRIPT "6" INDICATES GREEN GROUND WIRE. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE. REVERSE SLANT INDICATES NEUTRAL.
- /— CROSSHATCHES WITH BAR INDICATE #10 TW WIRE. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE.
- CONDUIT - DOWN
- ← CONDUIT - UP
- CONDUIT, STUBBED AND CAPPED AS SHOWN
- ⊙ SPECIAL CONNECTION
- S WALL SWITCH:

2 - DOUBLE POLE	P - PILOT LIGHT
3 - THREE WAY	K - KEY OPERATED
4 - FOUR WAY	D - DIMMER
WP - WEATHERPROOF	T - TIME SWITCH
- ⊠ STARTER, MAGNETIC, NEMA SIZE INDICATED, NEMA 1 ENCLOSURE UNLESS INDICATED OTHERWISE. SEE CONTROL DIAGRAM.
- ⊙ OR ⊠ GENERAL ELECTRICAL CONTROL OR WIRING DEVICE. NEMA 1 ENCLOSURE UNLESS INDICATED OTHERWISE. LETTER SYMBOL OR ABBREVIATIONS INDICATE TYPE OF DEVICE.
- ⊡ PUSH-BUTTON STATION, OR SIGNAL LIGHTS
- ⊡ CONVENIENCE RECEPTACLE - DUPLEX UNLESS SPECIFIED OTHERWISE
- ⊙ EXISTING LIGHT FIXTURE
- ⊙ NEW LIGHT FIXTURE
- ⊙ CONSTRUCTION NOTE, -SEE SCHEDULE, DMG. NO. 2
- ⊙ DETAIL OR SECTION LETTER OR NUMBER
- ⊙ DRAWING NUMBER WHERE SECTION OR DETAIL IS SHOWN

NO.	DATE	REVISION	BY
	R&L ENGINEERING <small>SKYLARK BUILDING, SUITE 104 2001 SW 5TH AVENUE PORTLAND, OREGON 97221</small>	CONTINENTAL GRAIN COMPANY Longview, Washington WISHA ELECTRICAL SYSTEMS UPGRADE	DES MCW DRN PJW CHK MCW SCALE NONE
	PROJECT NO. 7-072 DATE JANUARY 1979	VICINITY MAP AND LEGEND	DRAWING NO. OF 10 1

DRAWING NUMBER
B385

DRAWING NUMBER

DRAWING NUMBER

DRAWING NUMBER

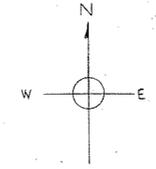
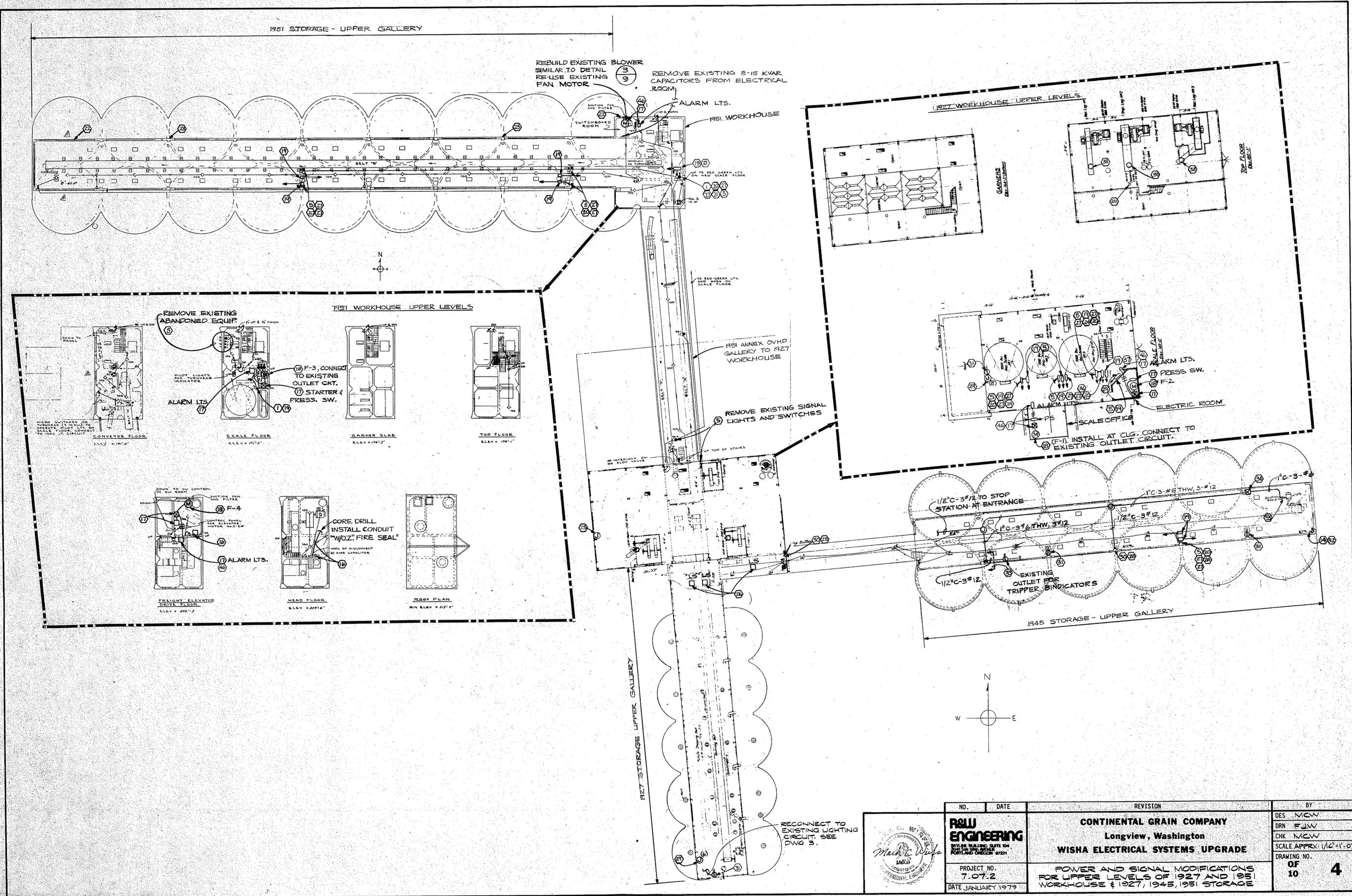
CONSTRUCTION NOTES

- ① REMOVE LIGHT FROM EXISTING TYPE GRF BOX. EACH CIRCUIT SHALL BE TESTED AS DESCRIBED IN ⑫. GRF BOX SHALL BE MADE FREE OF DUST. TAPPED HOLES SHALL BE MADE CLEAR OF OBSTRUCTIONS BY RUNNING A MATCHING TAPPING BIT THROUGH THE THREADS. EACH BOX SHALL BE RE-ASSEMBLED WITH A CROUSE-HINDS GRF GASKET (NO. GASK643) AND MADE UP TIGHT. SEE ③ FOR SPLICES. REPLACE EXISTING FIXTURE UNLESS NOTED OTHERWISE.
- ② REPLACE EXISTING SWITCH AND BOX WITH CROUSE-HINDS DSD933 OR DSD936 SWITCH AND SERIES EDS BOX (IF REQUIRED).
- ③ SPLICES SHALL BE MADE WITH SCOTCH 3577 OR 3578.
- ④ REMOVE EXISTING LIGHT FIXTURE. REWIRE THIS CIRCUIT WITH THWN, CU WIRE AT CONTRACTORS OPTION EITHER (A) INSTALL A NEW CROUSE-HINDS CPS BOX AND CONNECT TO THE EXISTING "T" CONDULET FOR SPLICING AND SUPPORTING THE FIXTURE; OR (B) REPLACE THE EXISTING "T" CONDULET WITH A FITTING APPROVED FOR CLASS 11, DIVISION 1 LOCATIONS. REPLACE FIXTURE. SPLICE AS REQUIRED IN ③.
- ⑤ REMOVE, SALVAGE AND TURN OVER TO OWNER EXISTING LIGHT FIXTURE.
- ⑥ REMOVE WIRE AND GROUT EXISTING FLUSH BOX.
- ⑦ CEILING MOUNT (OR TO BOTTOM OF BEAMS) NEW CROUSE-HINDS HIGH PRESSURE SODIUM LIGHT NO. DMV2C150GP/120-CE.
- ⑧ WIRE NEW FIXTURES TO EXISTING CIRCUIT. PROVIDE NEW WIRE TO PANEL (LOCATED IN ELECTRICAL ROOM ON SCALE FLOOR).
- ⑨ MOUNT FIXTURE SPECIFIED IN ⑦ AT PEAK OF ROOF. CONNECT TO EXISTING CONDUIT VIA CONDULET AT FORMER LIGHT LOCATION. INSTALL NEOPRENE GASKET ON CONDULET COVER.
- ⑩ REWIRE EXISTING CIRCUIT. RE-USE CONDUIT.
- ⑪ PLUG EXISTING CONDULET. PROVIDE NEOPRENE GASKET FOR CONDULET COVER.
- ⑫ TEST CIRCUIT WITH A 1000 VOLT MEGGER. IF READING IN LESS THAN 1000 MEGOHM-MILES (COMPUTED BY MULTIPLYING THE READING TIMES THE ESTIMATED CIRCUIT LENGTH IN MILES) SHALL BE REWIRED WITH THWN, CU. OF THE SAME GAUGE.
- ⑬ PROVIDE STRUCTURAL SUPPORT FOR EXISTING LIGHT FIXTURE.
- ⑭ REMOVE EXISTING EQUIPMENT AND FILL FLUSH OPENING WITH GROUT.
- ⑮ INSTALL NEW SURFACE MOUNTED CROUSE-HINDS SWITCH (DSD933 OR DSD936) AND SERIES EDS BOX.
- ⑯ RELOCATE EXISTING 30KVAR CAPACITOR, WIRE AND CONDUIT TO ELEVATOR DRIVE ROOM.
- ⑰ RECONNECT BLOWER MOTOR WITH NEW CONTROL EQUIPMENT AS SHOWN IN DETAIL ②/9
- ⑱ INSTALL NEW FAN MOTOR. CONNECT TO NEW OR EXISTING CIRCUIT AS SHOWN. INSTALL AS SHOWN IN DETAIL ③/9 FOR APPROPRIATE FAN MOTOR NUMBER.
- ⑲ FURNISH AND INSTALL CROUSE-HINDS NO. EMP200-J1J3. AIM IN DIRECTION SHOWN. PROVIDE TWO SPARE EMP009 ASSEMBLIES OF EACH COLOR FOR THE PROJECT.
- ⑳ PROVIDE CROUSE-HINDS DSD918 CONTROL STA. PROVIDE APPROVED BOX IF APPROPRIATE.
- ㉑ MODIFY EXISTING FS OR FD BOX AS SHOWN IN DETAIL ①/9
- ㉒ WHERE EXISTING COMMUNICATIONS CABLE PASSES THROUGH OPENED WINDOW, REPLACE ONE FIXED WINDOW PANE WITH 12 GAUGE METAL PLATE, INSTALL CORD GRIP CONNECTOR (CROUSE-HINDS CGB SERIES) AND REROUTE CABLE THROUGH THE CONNECTOR. WHERE REQUIRED, PROVIDE STRAIN RELIEF.
- ㉓ REPLACE EXISTING SURFACE JUNCTION BOX WITH CROUSE-HINDS CPS SERIES.
- ㉔ INSTALL CROUSE-HINDS ETH SERIES HORN.

- ㉕ EXISTING SPLICE JUNCTION BOX. DISCONNECT SPLICE, INSTALL DUST-IGNITION PROOF (NEMA 9) JUNCTION BOX AND REMAKE SPLICE.
- ㉖ REPLACE EXISTING LIMIT SWITCH(ES) WITH NEMA 9 LIMIT SWITCHES (MICRO-SWITCH TYPE EX OR EQUAL).
- ㉗ SAME AS ㉔ EXCEPT DSD923.
- ㉘ SAME AS ㉔ EXCEPT DSD922.
- ㉙ MODIFY EXISTING JUNCTION BOX AS SHOWN IN DETAIL ⑤/9
- ㉚ REPLACE EXISTING SWITCH.
- ㉛ REPLACE EXISTING OUTLET WITH CROUSE-HINDS ENRC22201 AND ENP5151 PLUG AT EACH LOCATION SHOWN.
- ㉜ REMOVE, SALVAGE AND TURN OVER TO OWNERS EXISTING CAPACITOR AND/OR EQUIPMENT.
- ㉝ INSTALL NEW BREAKER, CONNECT TO EXISTING FEEDER AS SHOWN IN DETAIL ④/9
- ㉞ INSTALL CROUSE-HINDS DMC31-70FA-D 6433 (480V) -PB3-T MOTOR STARTER.
- ㉟ RECONNECT EXISTING MOTOR WITH APPROVED FLEXIBLE CONDUIT.
- ㊱ RECONNECT EXISTING HORN.
- ㊲ INSTALL NEW INDICATOR (ILLUMINATED FROM LIMIT SWITCH ABOVE). REPLACE EXISTING "T" CONDULET WITH APPROVED TYPE AND RECONNECT EXISTING HORN.
- ㊳ REPLACE EXISTING BINDER WITH NEMA 9 RATED DEVICE.
- ㊴ REPLACE EXISTING BELL WITH NEMA 9 BELL, CROUSE-HINDS SERIES ESR.
- ㊵ REPLACE EXISTING SWITCHES AND ENCLOSURE WITH CROUSE-HINDS DVP408-100 PANEL BOARD. SEE DETAIL ①/9 INSTALL IN NEW LOCATION AS SHOWN.
- ㊶ MODIFY EXISTING FLUSH BOX AS SHOWN IN DETAIL ②/9
- ㊷ SAME AS ㉞ EXCEPT NO. DMC21-70FA-D6432(480V)-PB3-T
- ㊸ SAME AS ㉞ EXCEPT NO. DMC11-40FA-D6432(480V)-PB3-T
- ㊹ SAME AS ㉞ EXCEPT NO. DMC11-15FA-D6431(480V)-PB3-T
- ㊺ FURNISH FLOAT SWITCH, SQUARE DCO. DR-2 OR DR-3. SWITCH SHALL BE INSTALLED TO PREVENT SUMP PUMP OPERATION UNLESS PUMP IS SUBMERGED. CONNECT SWITCH IN SERIES WITH THE PUMP OUTLET.
- ㊻ WHERE SHOWN PROVIDE A CROUSE-HINDS TYPE ESR, 6-INCH ALARM BELL. CONNECT AS SHOWN IN DETAIL ②/9
- ㊼ RUN NEW HOME RUN FOR BASEMENT LIGHTING. PROVIDE TWO CIRCUITS FROM NEW (RELOCATED) PANEL SHOWN ON DRAWING NO. 7.
- ㊽ THESE EXISTING JUNCTION BOXES CONTAIN 3-#1/0, 3-#2 AND APPROXIMATELY 5-10 LIGHTING CIRCUITS. ALL CONDUIT AND WIRE BETWEEN THESE BOXES SHALL BE REPLACED TO ACCOMMODATE SPLICING. CONTRACTOR MAY USE THREE APPROVED SPLICE BOXES OR FITTINGS IF DESIRED.
- ㊾ JUNCTION BOX CONTAINS 10-15 LIGHTING, POWER OR CONTROL CIRCUIT SPLICES.

	NO. DATE	REVISION	BY
	R&W ENGINEERING <small>REGISTERED PROFESSIONAL ENGINEERS 1011 AND 1013 1/2 AVENUE SEATTLE, WASHINGTON 98101</small>	CONTINENTAL GRAIN COMPANY Longview, Washington WISHA ELECTRICAL SYSTEMS UPGRADE	DES MCW DRN SMB CHK MCW SCALE NONE
	PROJECT NO. 7.07.2	CONSTRUCTION NOTES	DRAWING NO. OF 10 2
	DATE JANUARY 1979		

PLANNING & ENGINEERING CORPORATION • 1000 WEST 10TH AVENUE, SUITE 1000, DENVER, COLORADO 80202



NO.	DATE	REVISION	BY
			DES. MCV
			DRN. FJM
			CHK. MCV
			SCALE APPROX. 1/8" = 1'-0"
			DRAWING NO. OF 10
			4

R&W ENGINEERING
 1000 WEST 10TH AVENUE, SUITE 1000
 DENVER, COLORADO 80202
 PHONE: 333-1111
 TELETYPE: 333-1111

PROJECT NO. 7.07.2
 DATE: JANUARY 1979

Mark C. Wisla
 PROFESSIONAL ENGINEER

CONTINENTAL GRAIN COMPANY
 Longview, Washington
WISLA ELECTRICAL SYSTEMS UPGRADE

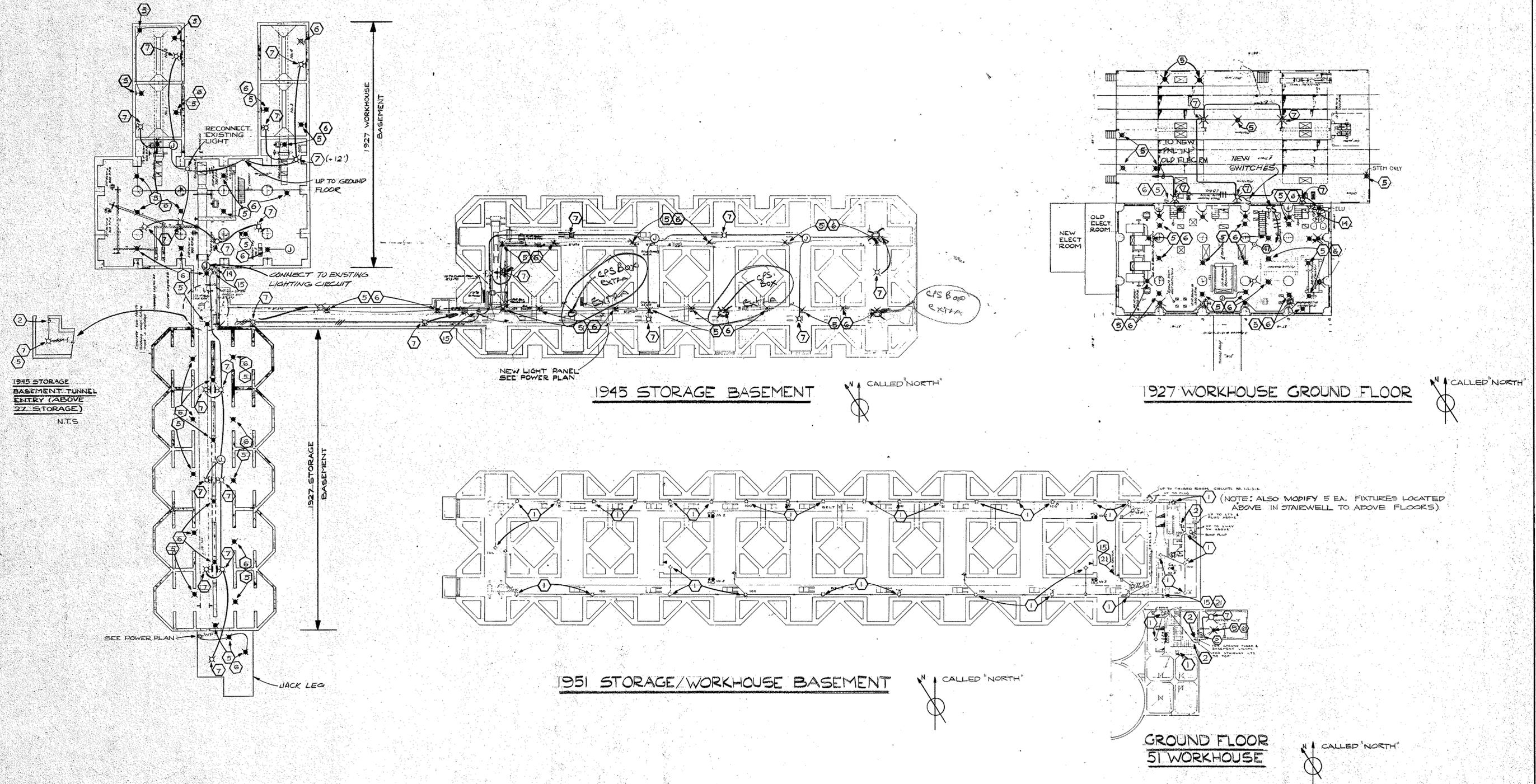
POWER AND SIGNAL MODIFICATIONS FOR UPPER LEVELS OF 1927 AND 1951 WORKHOUSE & 1945, 1951 STORAGE

DRAWING NUMBER
B388

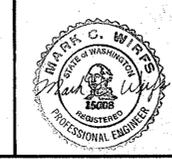
DRAWING NUMBER
R&W ENGINEERING

DRAWING NUMBER
R&W ENGINEERING

DRAWING NUMBER
R&W ENGINEERING



UP TO TRUSS ROOM, CIRCUITS NO. 11-3-4
(NOTE: ALSO MODIFY 5 EA. FIXTURES LOCATED ABOVE IN STAIRWELL TO ABOVE FLOORS)



NO.	DATE	REVISION	BY
			DES. MCW
			DRN. FLW
			CHK. MCW
			SCALE APPROX. 1/16" = 1'-0"
			DRAWING NO.
			OF 10
			5

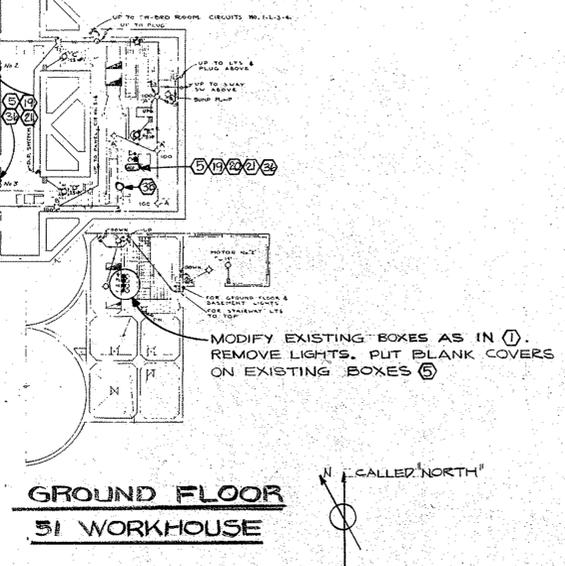
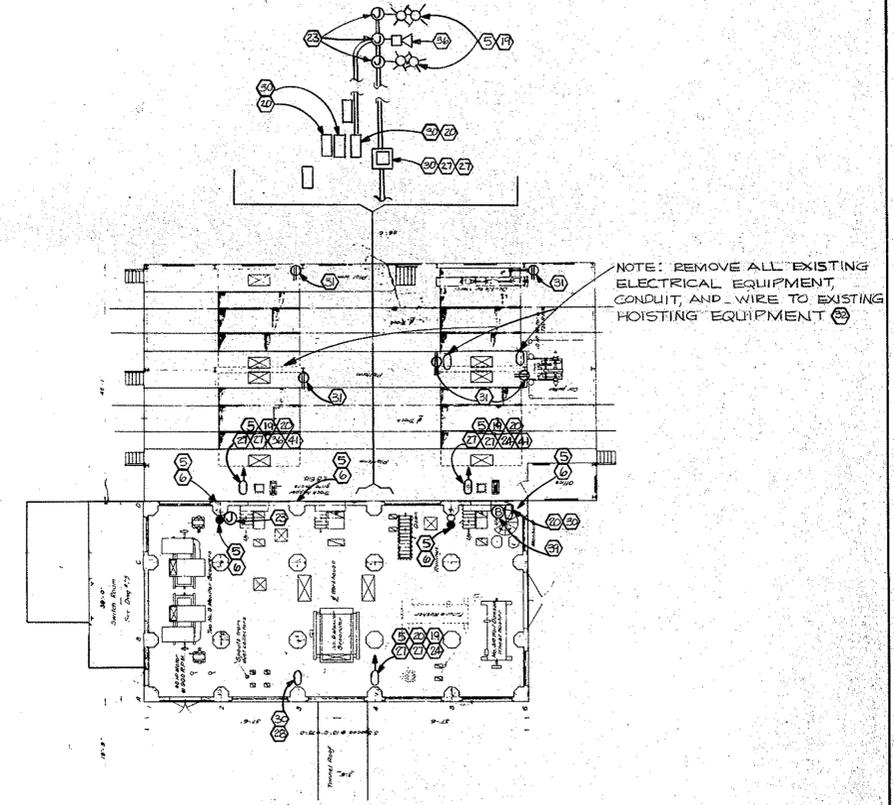
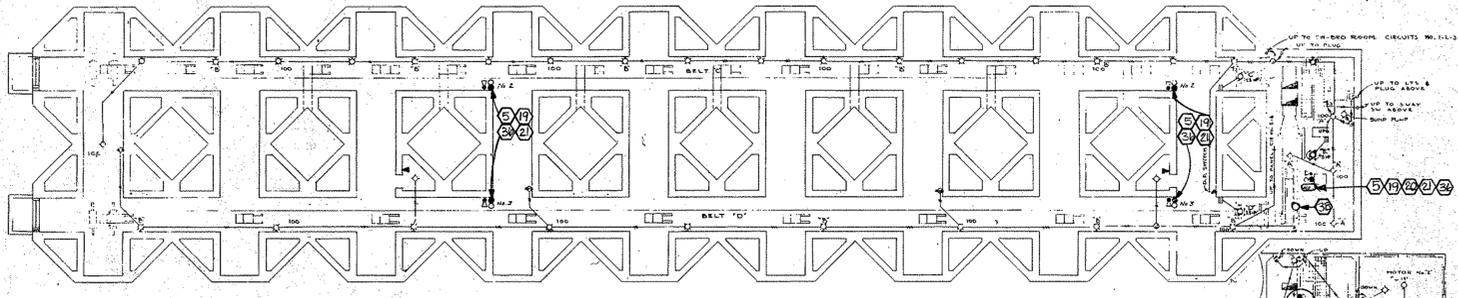
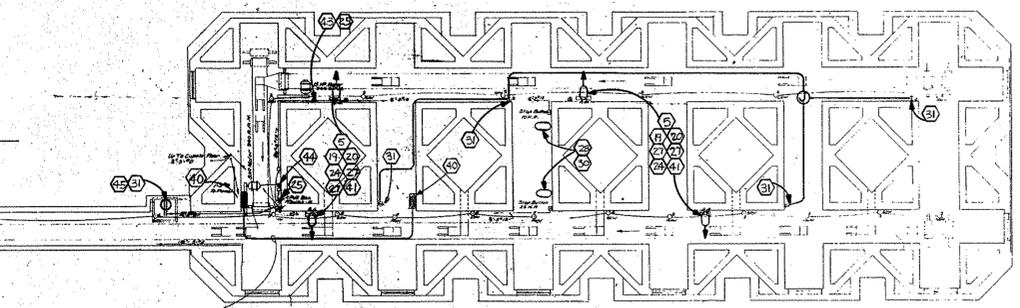
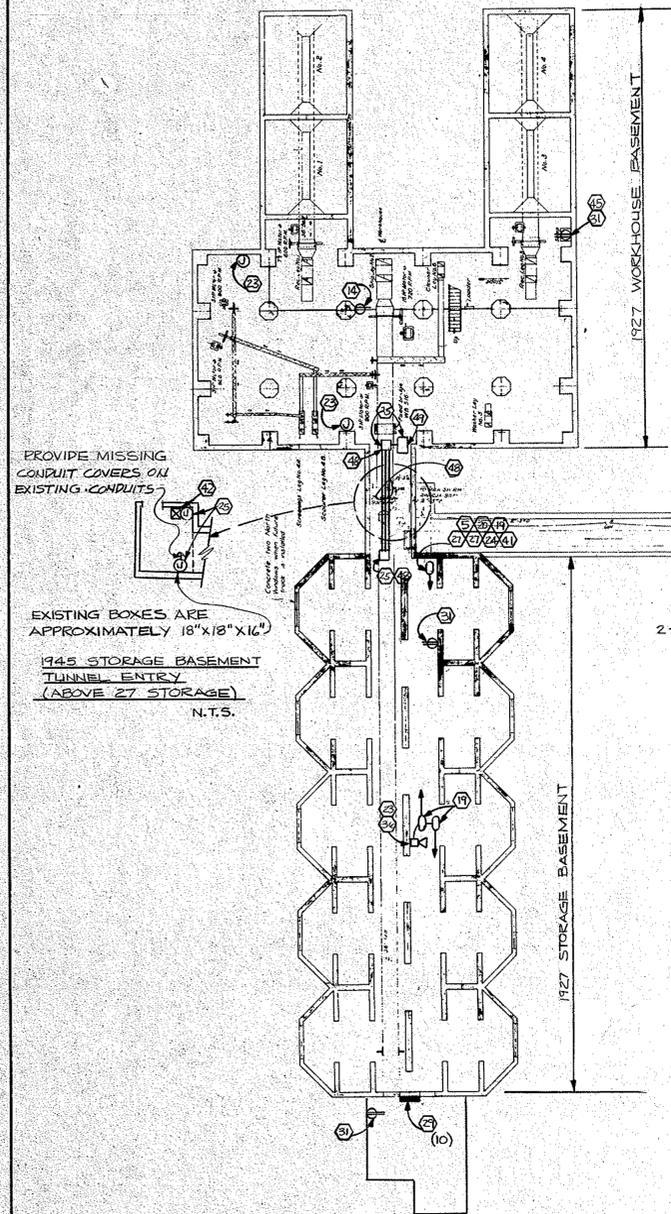
R&W ENGINEERING
5105 WASHINGTON ST.
SEATTLE, WASHINGTON 98148
PORTLAND, OREGON 97221

CONTINENTAL GRAIN COMPANY
Longview, Washington
WISHA ELECTRICAL SYSTEMS UPGRADE

PROJECT NO. 7.07.2
DATE JANUARY 1979

LIGHTING MODIFICATIONS FOR 1927, 1945, 1951 WORKHOUSES AND STORAGE BASEMENTS & GROUND FLRS.

B389



NO.	DATE	REVISION	BY
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			DRN EMS/APV
			CHK MCW
			SCALE NONE
			DRAWING NO. 06 10 6



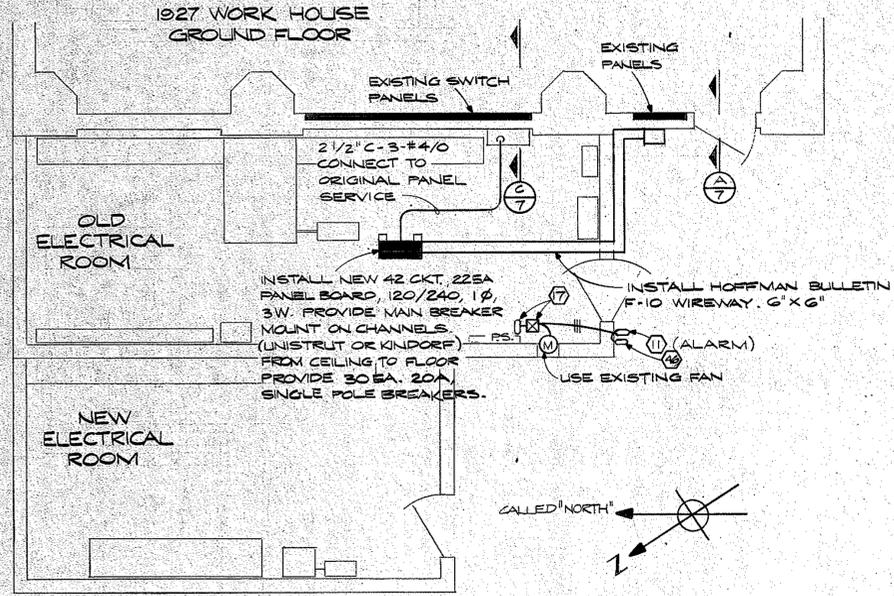
R&W ENGINEERING
REGISTERED PROFESSIONAL ENGINEERS

CONTINENTAL GRAIN COMPANY
 Longview, Washington
WISHA ELECTRICAL SYSTEMS UPGRADE

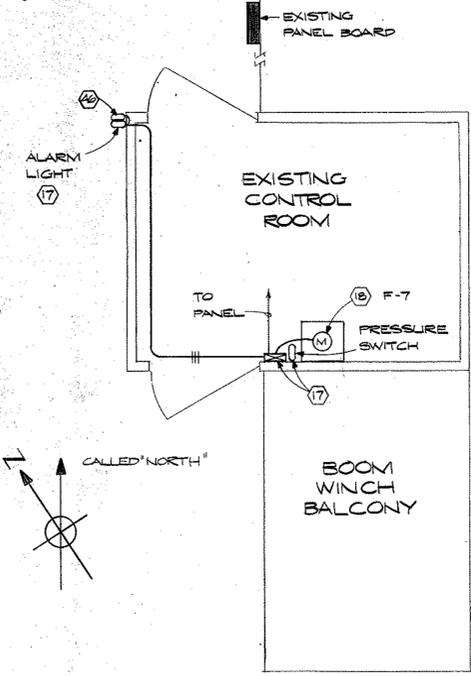
PROJECT NO. 7.07.2
 DATE JANUARY 1979

POWER & SIGNAL MODIFICATIONS FOR 1927, 1945, 1951 WORKHOUSES AND STORAGE BASEMENTS & GROUND FLOORS

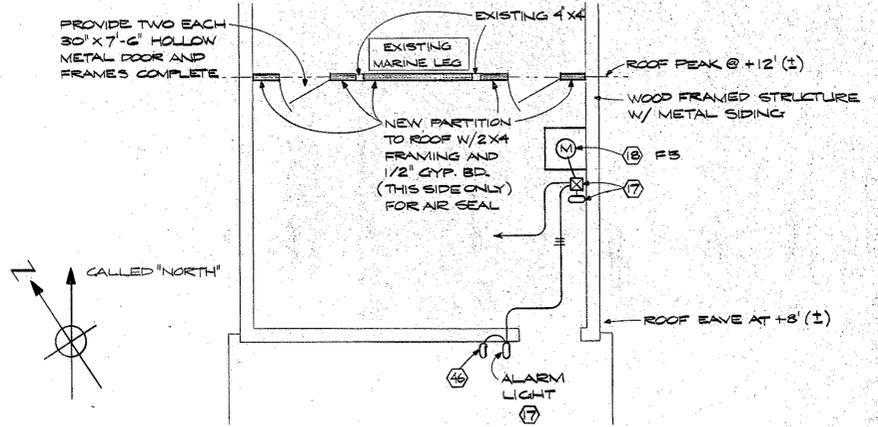
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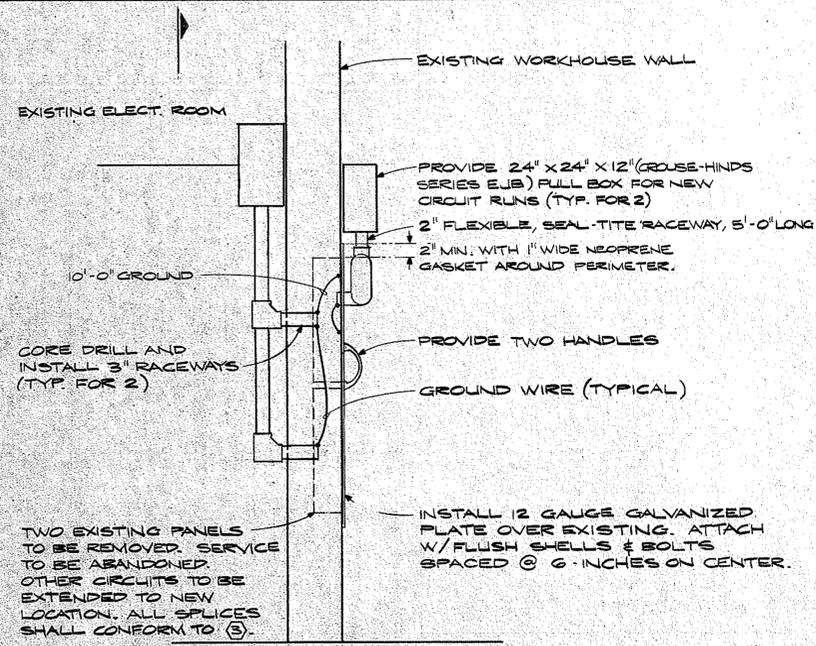
PLAN AT ELECTRICAL ROOMS
NTS



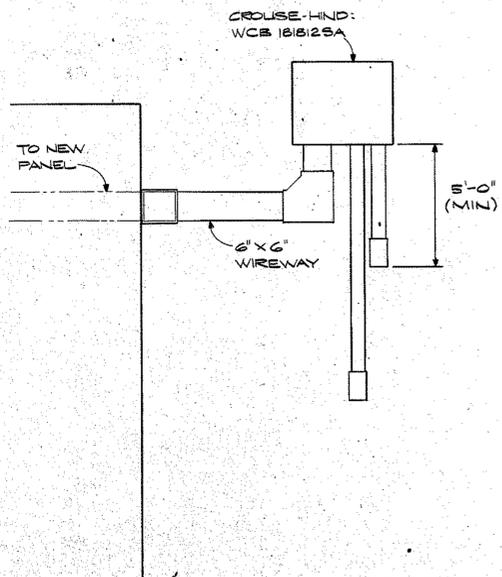
PLAN AT TOWER NO.1
NTS



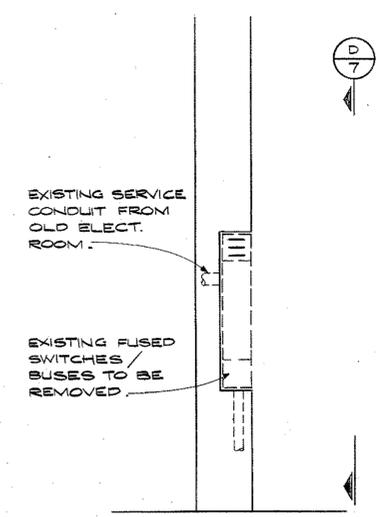
PARTIAL PLAN OF EXISTING BARGE
UNLOADING SHACK
SCALE: APPROX. 1/4" = 1'-0"



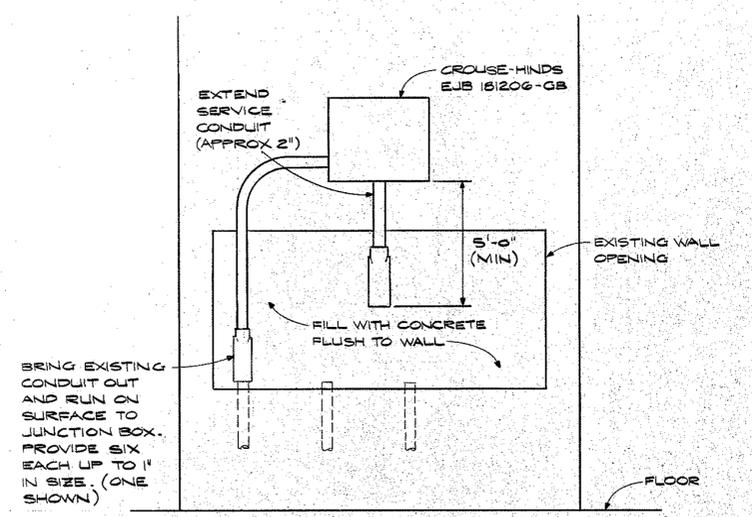
SECTION A
NTS



SECTION B
NTS

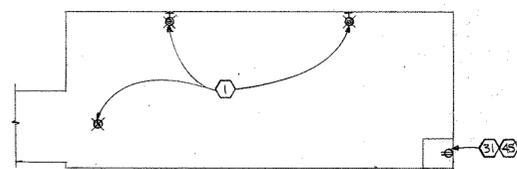


SECTION C
NTS

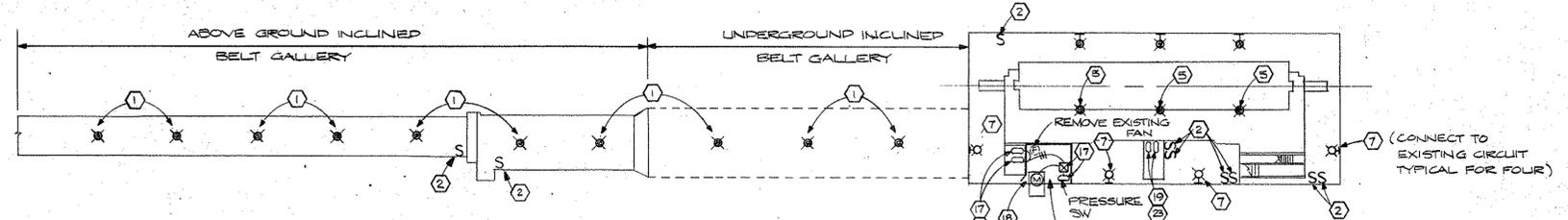


SECTION D
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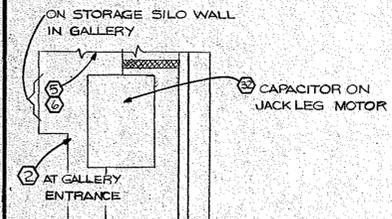
	NO.	DATE	REVISION	BY
	RELI ENGINEERING <small>2010 1/2 BLDG. SUITE 04 4001 1/2 GARDEN ST.</small>		CONTINENTAL GRAIN COMPANY Longview, Washington WISHA ELECTRICAL SYSTEMS UPGRADE	
	PROJECT NO. 7.07.2		SCALE AS SHOWN OF 10 7	
DATE JANUARY 1979			DETAILS	



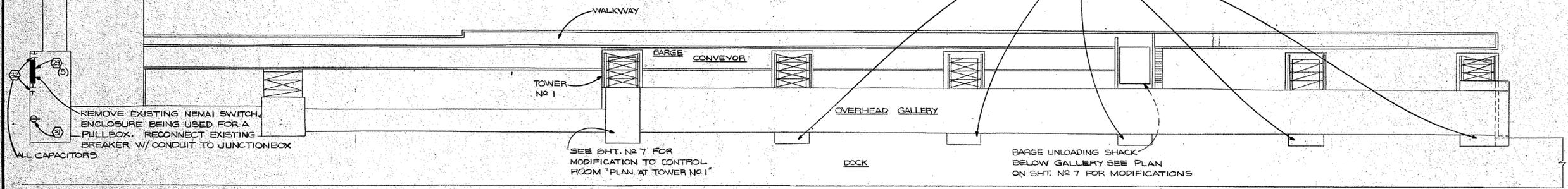
BASEMENT PLAN



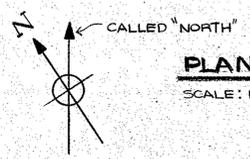
PLAN AT BOXCAR TIPPER
APPROX. SCALE: 1/16" = 1'-0"



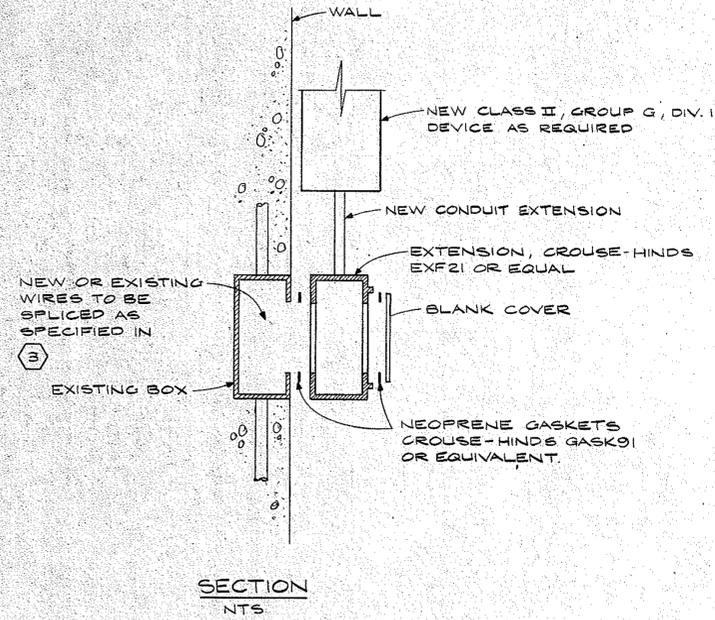
NOTE: AT EACH OF FIVE EXISTING CONTROL BALCONIES THERE APPROXIMATELY FOUR SELECTOR SWITCHES, ONE PUSH-BUTTON STATION AND TWO HORNS. THESE DEVICES ARE NEMA 9 AND MAY BE SALVAGED FOR USE ON THIS PROJECT WHEREVER NOTES (2)(3)(4)(5) ARE SHOWN.



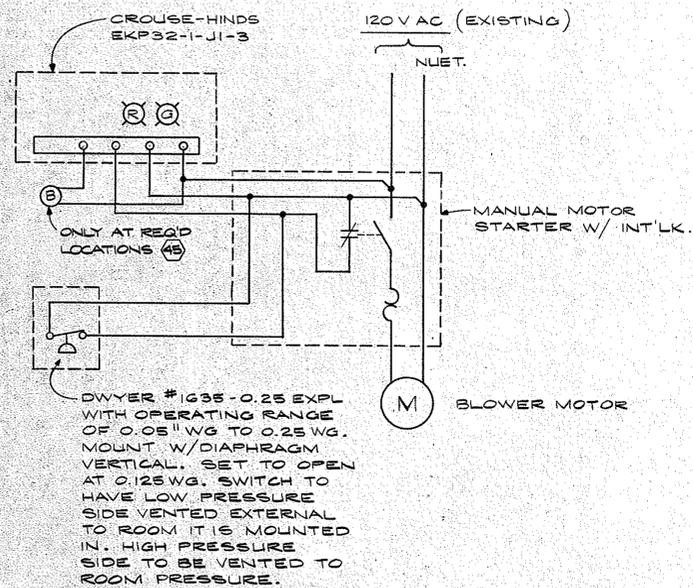
PLAN OF SHIPPING GALLERY & DOCK
SCALE: 1" = 20'-0"



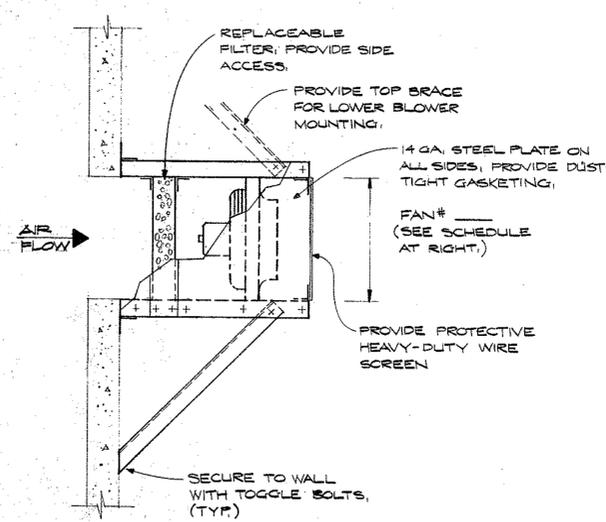
	NO. DATE	REVISION	BY
	R&W ENGINEERING <small>ENGINEERING FIRM</small> <small>1000 1/2 AVENUE</small> <small>PORTLAND OREGON 97221</small>	CONTINENTAL GRAIN COMPANY Longview, Washington WISHA ELECTRICAL SYSTEMS UPGRADE	DES: MCW DRN: PMP/FJW CHK: MCW SCALE: 1" = 20'-0" DRAWING NO.: OF 10
	PROJECT NO.: 7.07.2 DATE: JANUARY 1979	SHIPPING GALLERY/DOCK AND BOX CAR TRIPPER PLANS	8



SECTION NTS
TYPICAL MODIFICATION AT EXISTING FLUSH FS OR FD BOX 3
9

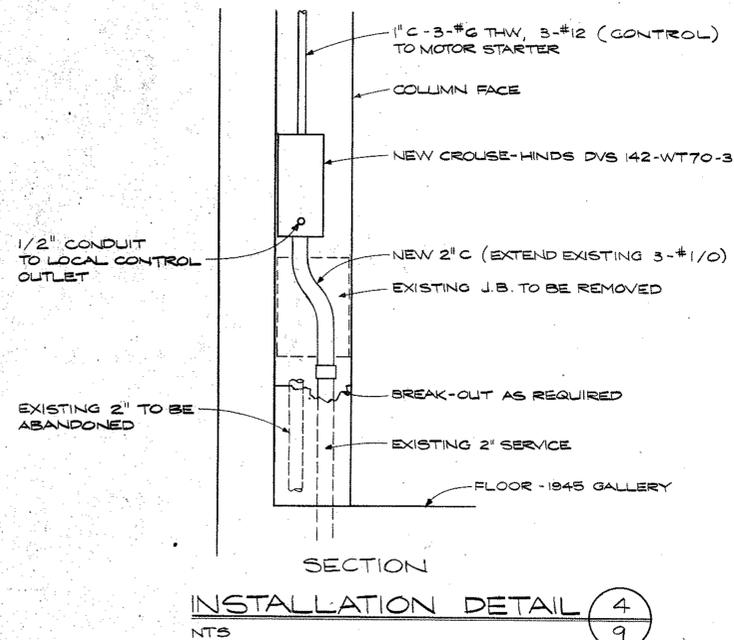


PRESSURE BLOWER INSTALLATION DETAIL 2
9

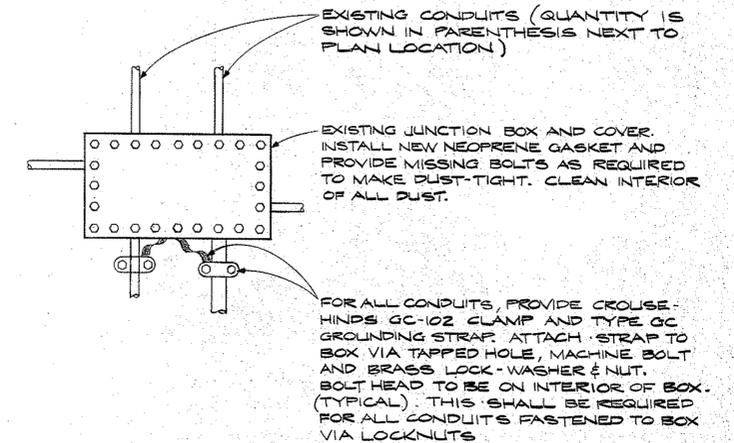


ELECTRICAL ROOM PRESSURIZING 3
BLOWER MOUNTING DETAIL 9
NTS

FAN SCHEDULE					
FAN #	RPM	HP	CFM @ 1.25 S.P.	LG CO CAT #	REMARKS
F-1	1080	1/8	1290	DF 18	INSTALL FAN THROUGH NEW OPENING IN EXISTING BUILDING NEAR CEILING
F-2	1050	1/8	1150	DF 18	INSTALL FAN AT EXISTING LOCATION AND CONNECT TO EXISTING CIRCUIT
F-3	1050	1/8	1150	DF 18	INSTALL FAN AT CEILING AND THROUGH EXISTING OFFICE WINDOW, CONNECT TO EXISTING OUTLET CIRCUIT
F-4	1050	1/10	400	DF 16	INSTALL AT EXISTING FAN LOCATION, REUSE EXISTING CIRCUIT
F-5	1140	1/3	3360	DF 24	INSTALL 8 FEET ABOVE FLOOR THROUGH EXISTING BUILDING WALL
F-6	1050	1/8	1260	DF 18	INSTALL AT EXISTING FAN LOCATION, RE-USE EXISTING CIRCUIT
F-7	1725	1/3	2450	DF 18	INSTALL AT CEILING TO MAINTAIN HEADROOM, ASSEMBLY MAY BE INSTALLED ON EXTERIOR WALL IN BALCONY AREA
F-8	1050	1/10	400	DF 16	CONNECT FAN TO EXISTING FAN CIRCUIT, MODIFY MOUNTING SO THAT FAN & FILTER ARE EXTERNAL TO ROOM DUE TO LIMITED CLEARANCES

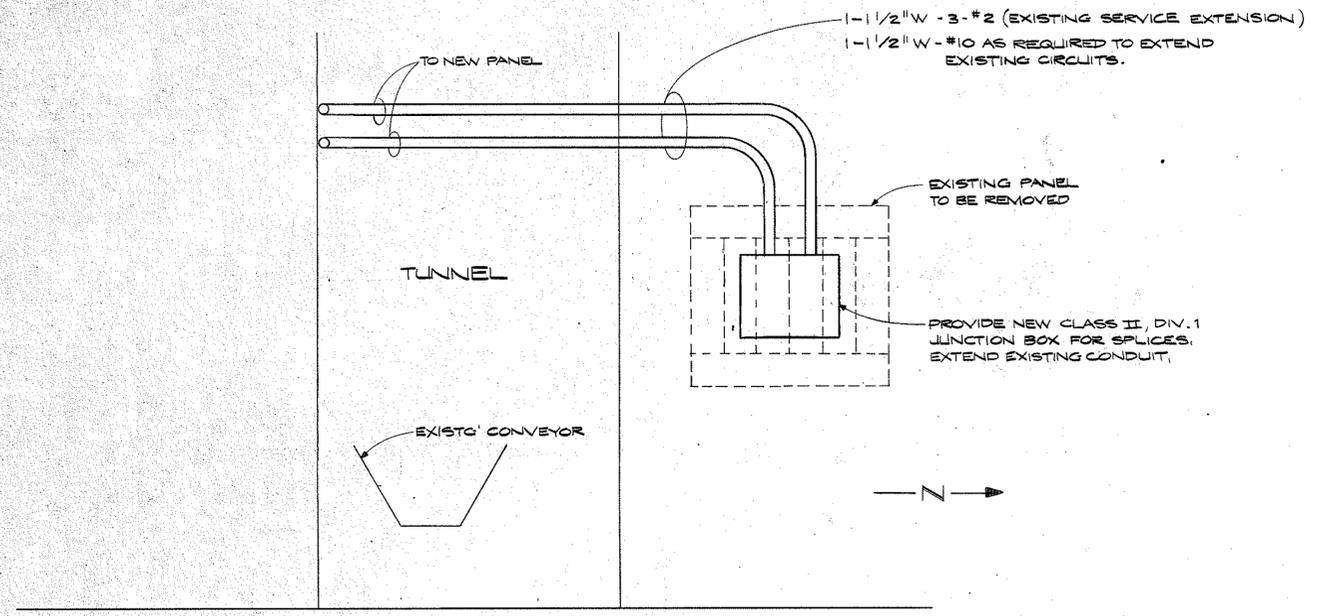


SECTION INSTALLATION DETAIL 4
NTS 9

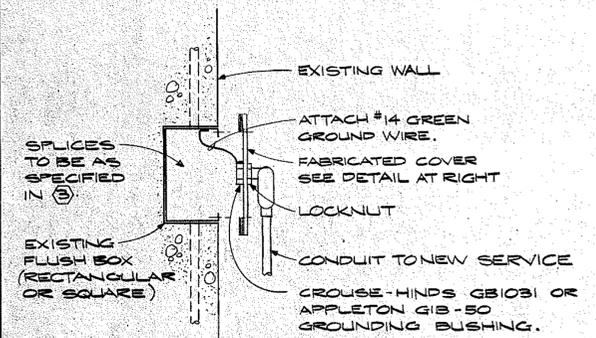


JUNCTION BOX DETAIL 5
NTS 9

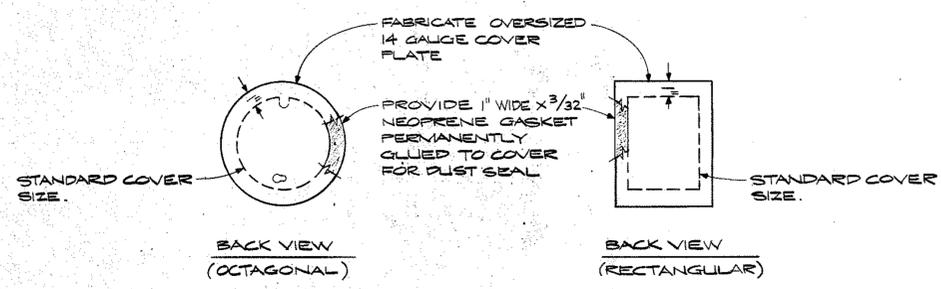
	NO.	DATE	REVISION	BY
	RELIABLE ENGINEERING		CONTINENTAL GRAIN COMPANY	
	5000 1/2 BUILDING SUITE 104 PORTLAND OREGON 97221		Longview, Washington WISHA ELECTRICAL SYSTEMS UPGRADE	
	PROJECT NO. 7.07.2 DATE JANUARY 1979		DETAILS OF 10 9	



LIGHTING/POWER PANEL RELOCATION DETAIL 1
NTS 10



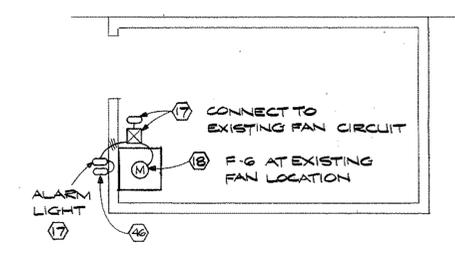
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NTS



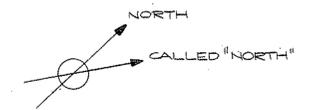
NOTE: HOT-DIP GALVANIZE MODIFIED COVERS AFTER ASSEMBLY.

COVER PLATE MODIFICATION
NTS

FLUSH BOX MODIFICATION DETAIL 2
NTS 10



PLAN AT W2 ELECTRICAL ROOM
SCALE: APPROX. 1/4" = 1'-0"



	NO.	DATE	REVISION	BY
	R&W ENGINEERING <small>2011 1/2 BULLOCK BLVD STE 104 PORTLAND, OREGON 97221</small>		CONTINENTAL GRAIN COMPANY Longview, Washington WISHA ELECTRICAL SYSTEMS UPGRADE	
	PROJECT NO. 7.07.2 DATE JANUARY 1979		DETAILS	