

SPEC BY: *W. R. B...*
S's. Eng. LISTED BELOW

20110 310 33 23 1 101 9 570110

DATE RECEIVED

MADE

Brown Construction Co.
 7 Water Treatment & Storage
 Facilities NBY 54077
 Camp Lejeune, North Carolina

F.O.B. SHIPPING POINT

REQUIRED

CONTACT: *3 Cbrt 64* *2 Rich 32*

P.O. NO. Brown Construction Co. P.O. Box 26455 Charlotte 6, North Carolina	DIST.	MAN.	PROD.	AMOUNT	PROD.	AMOUNT	PROD.	AMOUNT
	17	4889	21	184750	27	42000	62	105550
			38	5250	80	4900		
	72	3684	21	184750	37	42000	62	105550
		38	5250					
CUSTOMER ORDER NUMBER				REQUESTED SCUTING				
15-M				Best Ppd.				

B/L SHIPPED VIA DATE SHIPPED DATE INVOICED INVOICE NO.

TAG & MARK **22.2.1** SCHED. SHIPMENT WEEK OF SERIAL NO.

TRANSMITTER - ELEVATED WATER TANK LEVEL **7 SEPT 64** **6403A2916 521**

ITEM	QUAN.	COMPLETE INSTRUMENT MODEL NUMBER				UNIT PRICE	AMOUNT
	1	1103 PS 49					
PRESSURE ELEMENT X	RANGE		TYPE		DIAPHRAGM MAT'L.	SPEC. NO.	O-RANGE
	0-123 FEET WC		PS SPIRAL		BRONZE	14	PSIG
	D/M	LOC. ON PLATE	SPINDLE NO.	TRAVEL DEGREES	OUTPUT LEVER P.M.		
	801E084	T1	2				
	PROJECTOR TYPE		PURCH. REQ.	CODE	DIAPHRAGM MAT'L.	CASE MTD.	
			STOCK	BY-		REMOTE MTD.	
	BOTTOM BOWL MAT'L.		CONN. TYPE		ARMOR LENGTH	MAT'L.	
D/M	CAPIL. LGTH.		MAT'L.	SPEC. NO.			

SCALE & UNITS	PER COLOR	ELEM. LOC.	SPIN NO.	SIG'LX' MIT IND.	REC	TOT	CONT	RATIO W	C	ACCESSORIES PER INST.
0-25 FEET		T1	Z	LIM X X						<input type="checkbox"/> GAUGES (PSI OR KG/CM ²) <input type="checkbox"/> HI-TEMP. TRANSMITTER <input type="checkbox"/> ASB, GSK, ALUM. PAINT HEAT SHIELD <input type="checkbox"/> FILT. REG # _____
MI (TRANSMITTER) CONCENTRIC DIA. INDICATOR										
INTEGRATOR		CHART & DRIVE			CONTROLLER		QUAN. CHARTS			
52T	52T	<input type="checkbox"/> ELEC. <input type="checkbox"/> EXP. PROOF		53P	53P	PROCESS INCREASE, OUTPUT:		TYPE OF MOUNTING		
COUNT X	COUNT X	<input type="checkbox"/> PNEU. <input checked="" type="checkbox"/> SPRING		PROCESS INCREASE, OUTPUT:		INCREASE <input type="checkbox"/> DECREASE <input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> WALL PEDESTAL <input type="checkbox"/> W/PIPE STAND <input type="checkbox"/> W/O PIPE STAND <input type="checkbox"/> PANEL <input type="checkbox"/> U-BOLT		
CPH	CPH	SPEED		RANGE		P/N		SERIES		
D/M	51-1100	WIRE DIAG		VOLTS		TRANS-MITTER		PRODUCT 2		
		51-1190, 92		80 MF1212AR				V-31100		

A) X SUPPRESS SPIRAL & TRANSMITTER FOR ELEVATED TANK LEVEL

MAXIMUM LEVEL 121 FEET ABOVE TRANSMITTER

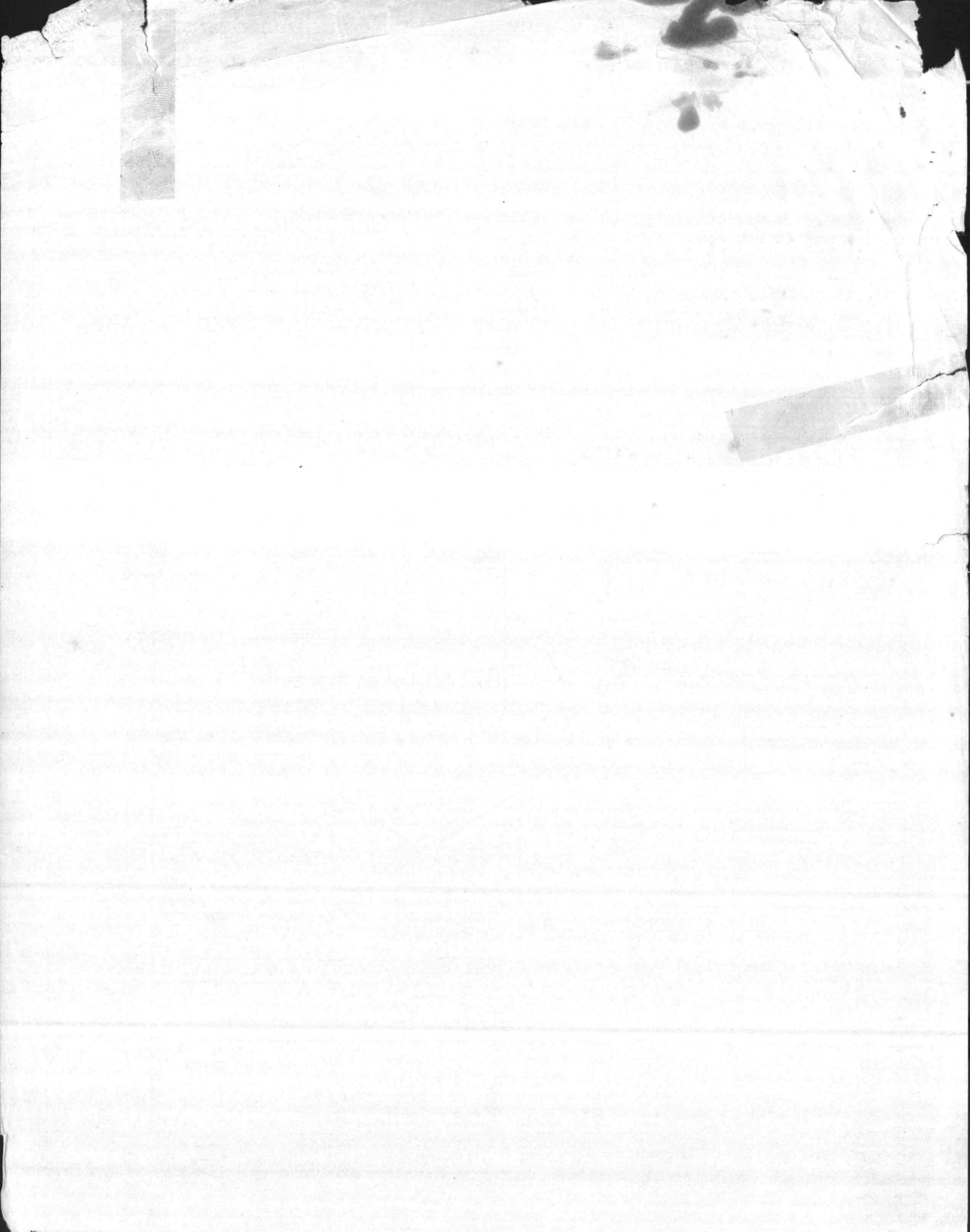
MINIMUM LEVEL 98 FEET ABOVE TRANSMITTER

(CUSTOMER TO MOUNT TRANSMITTER @ ELEV. 52.5 FEET - REFERENCE Y & D DWG # 957518)

SUB-TOTAL \$
 TRANSPORT. CHARGE

OTHER Q.N.	DIM. DWG.	QTY. INSTR.	51-1100	50MF1000	SPEC/DATE	AMT. OF INVOICE
1/3	AD-51-1064	5/5 BULL. W/ SHIP'MT.	51-1103	11P-1001	20 JULY	\$

SHIPMENT: COMPLETE PARTIAL FINAL PARTIAL TERMS: NET 30 DAYS



FISCHER & PORTER COMPANY
 WARMINSTER, PENNSYLVANIA, U. S. A.

SPEC. BY **G. LISTED BELOW**
Sys. Engr. Guckler

SALES ORDER NUMBER
6403 A2916 J

REFERENCE NUMBERS
Gov't. Inspection Required

CR. DISTRICT	AREA	CR. DISTRICT	AREA
2 Chtt	4	2 Rich	32

CUST. NO. 201404	COUNTY 119	STATE 32	IND. 984	DATE ENTERED 1 Apr. 64	(SAME) 675100	SHIP WEEK OF
CUSTOMER ORDER NUMBER 15-11			REQUISITION/JOS NUMBER		DATE RECEIVED	
SHIP TO Brown Construction Co. % Water Treatment & Storage Facilities NBY 54077 Camp Lejeune, North Carolina				MARK		
F.O.B. SHIPPING POINT						

SOLD TO Brown Construction Co. P.O. Box 26455 Charlotte 6, North Carolina	DIST.	MAN.	PROD.	AMOUNT	PROD.	AMOUNT	PROD.	AMOUNT
	17	4889	21	184750	27	42000	62	105550
			38	5250	30	4900		
	72	3684	21	184750	27	42000	62	105550
			38	5250				
CUSTOMER ORDER NUMBER 15-11				REQUESTED ROUTING Best Pod.				

CALIB.	TAG & MARK SHEET #	SCHED. SHIPMENT WK. OF	DATE SHIPPED	SERIAL NO. 6403A2916 L12
ITEM	2 of 4		SHIPPED VIA	B/L

QUANTITY 1	SIZE	MODEL NUMBER 1103PS49
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MANUFACTURING SPECIFICATIONS

3.) SUPPRESSION:

INSTRUMENT TO BE SUPPRESSED BY

SPIRAL AND TRANSMITTER CAM

ADJUSTMENT OVER "0" TO "98" FOOT RANGE

1.) SUPPRESS SPIRAL FROM "0" TO "60"

FEET W.C. - USE UNDERTRAVEL

9647A202 IN PLACE OF BEARING

ASSEMBLY ON SPIRAL

2.) CUT TELEMETER TRANSMITTER CAM

TO SUPPRESS REMAINING "60" TO "98"

FEET.

TRANSMITTER FUNCTION LINEAR / LINEAR

OVER "0" to "25" FEET W.C. RANGE.

"0" @ "98" FEET W.C.

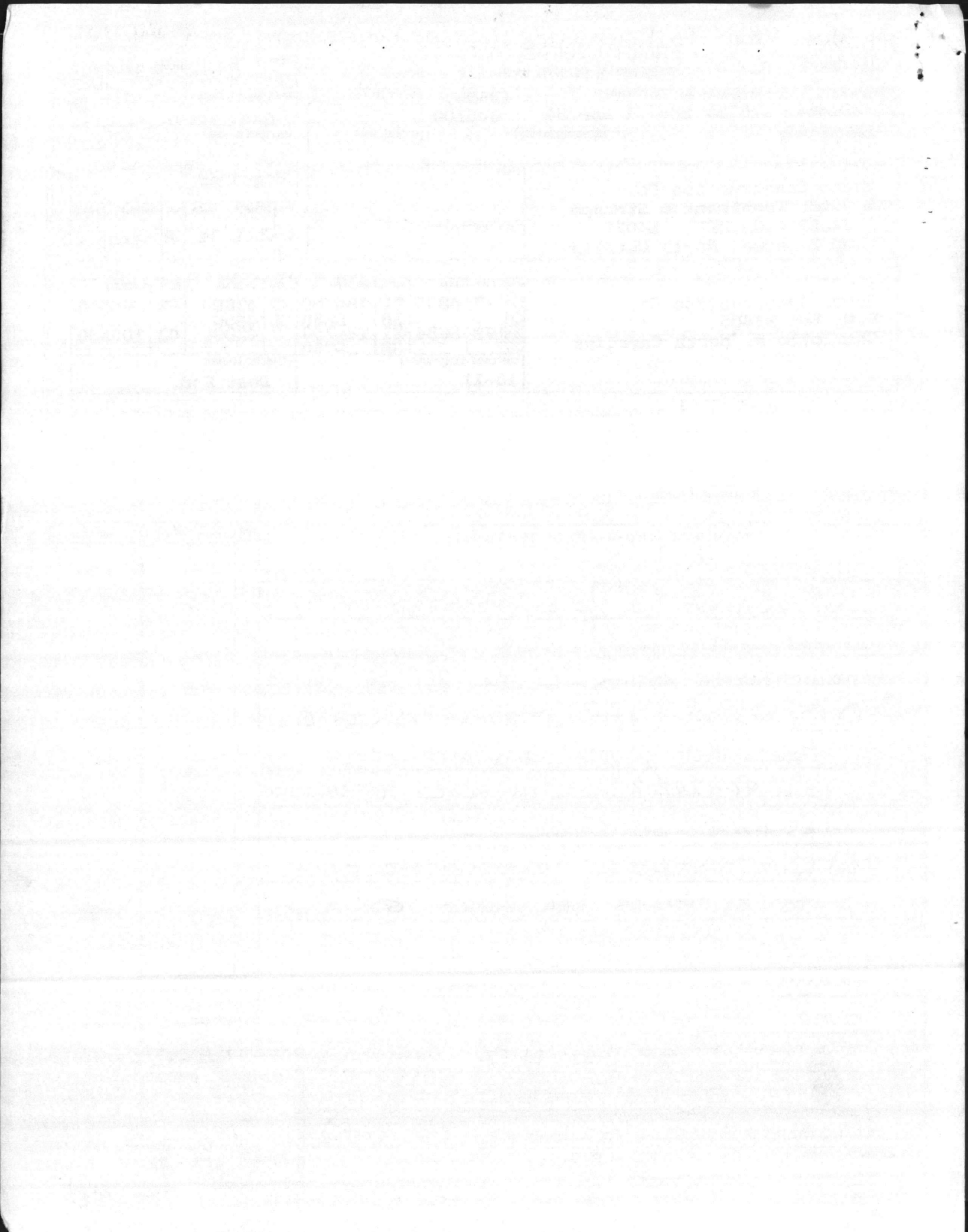
"25" @ "123" FEET W.C.

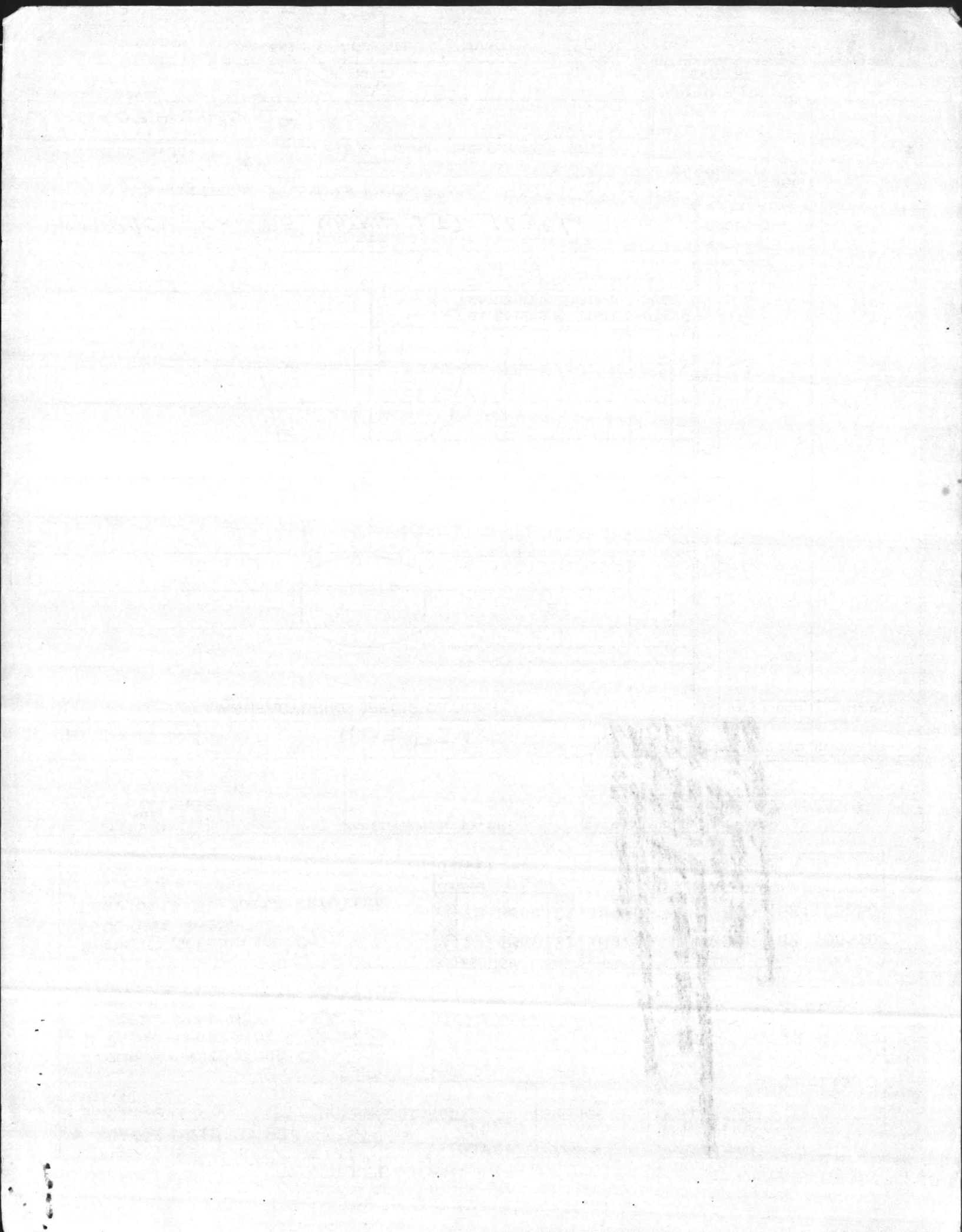
(CUSTOMERS ACTUAL MAX LEVEL = "23" FEET)

DATE INVOICED	INVOICE NO.
UNIT PRICE	AMOUNT
PRODUCT	
PRODUCT	
PRODUCT	

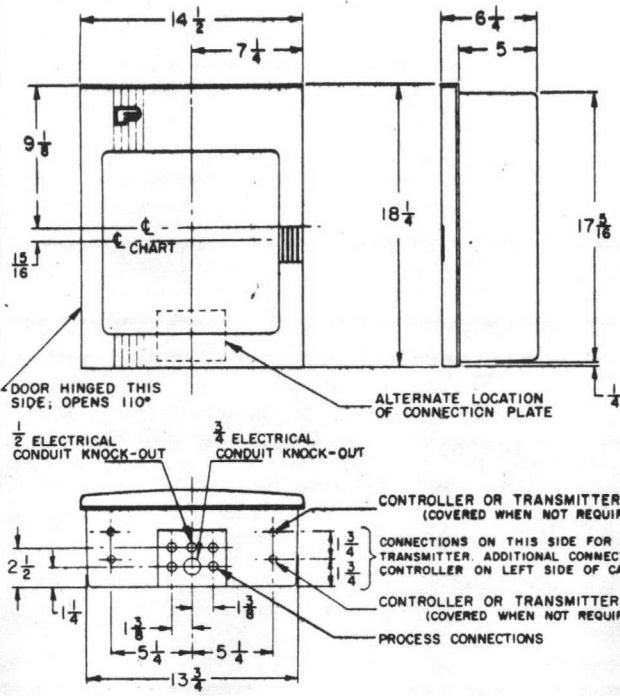
SUB-TOTAL	
TRANSPORT. CHARGE	
AMOUNT OF INVOICE	\$

OTHER SN DIM. DWG.	QTY 5	INSTR. BULL W/ SHIP'T.	SHIPMENT: <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL PARTIAL	TERMS: NET 30 DAYS
SPEC. DATE				





INSTRUMENT CASE DIMENSIONS



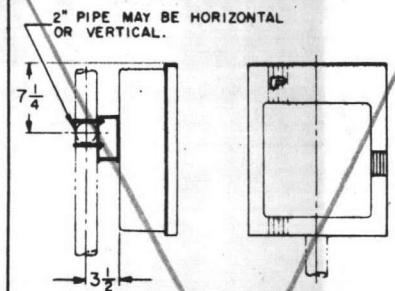
Certified Correct
 For: Brown Construction Company
 Order No. 15-11
 F&P Serial No. 6103 A 2916 J2
 Tag: 22-2.1 Transmitter-Elevated Water Tank Level
 Date: 18 August 1964
 By: *Alta Zimmerman*

OD-51-1064

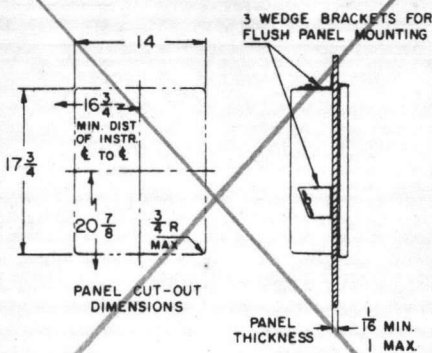
GENERAL NOTES

- 1 ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED.
- 2 DIMENSIONS GUARANTEED ONLY IF THIS PRINT IS CERTIFIED.
- 3 UNLESS OTHERWISE SPECIFIED CONNECTIONS WILL BE MADE THRU THE BOTTOM PLATE. THE PLATE IS EASILY CHANGED IN THE FIELD FROM THE BOTTOM POSITION TO THE BACK, OR ROTATED 180° FOR OTHER CONDUIT SIZE.
- 4 ALL PRESSURE PROCESS AND AIR CONNECTIONS ARE $\frac{1}{4}$ " N.P.T.I
- 5 PROCESS CONNECTIONS ARE COLOR CODED TO MATCH PEN COLORS.

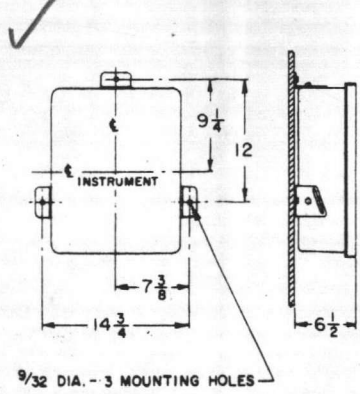
2" PIPE YOKE MOUNTING



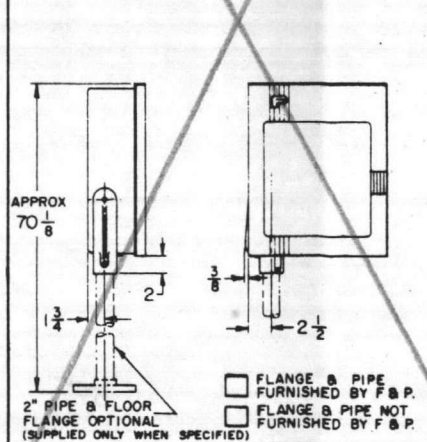
PANEL MOUNTING



WALL MOUNTING



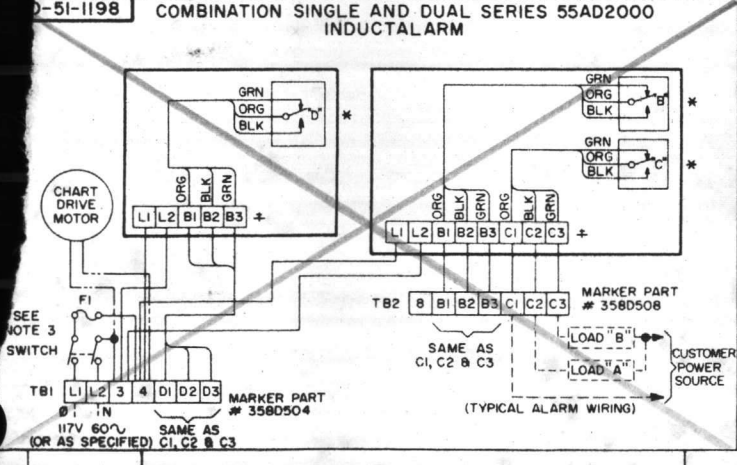
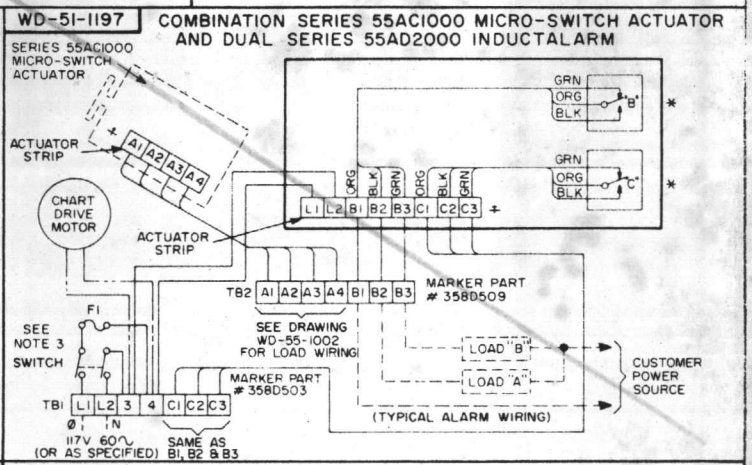
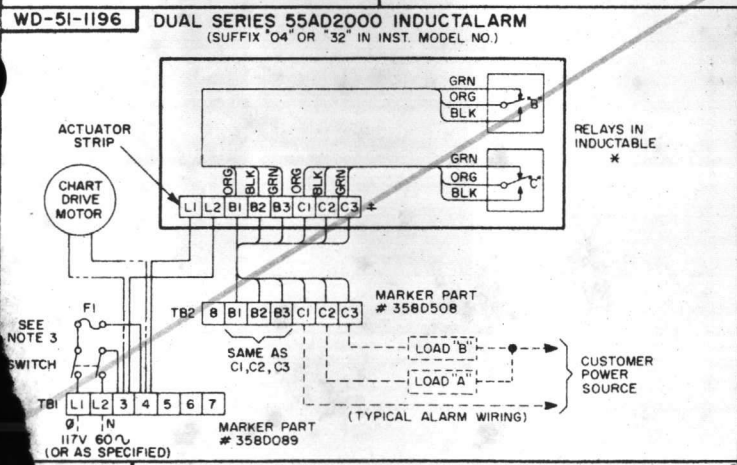
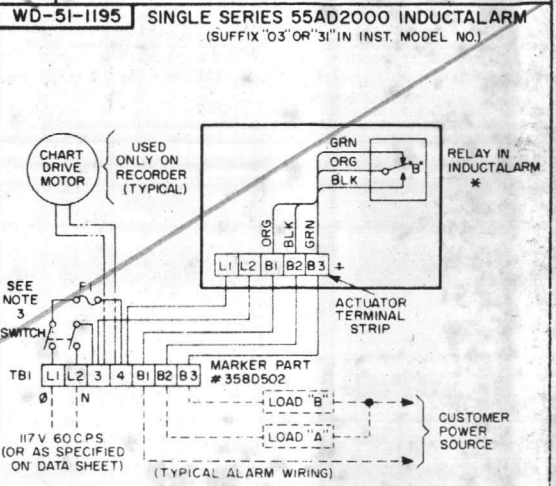
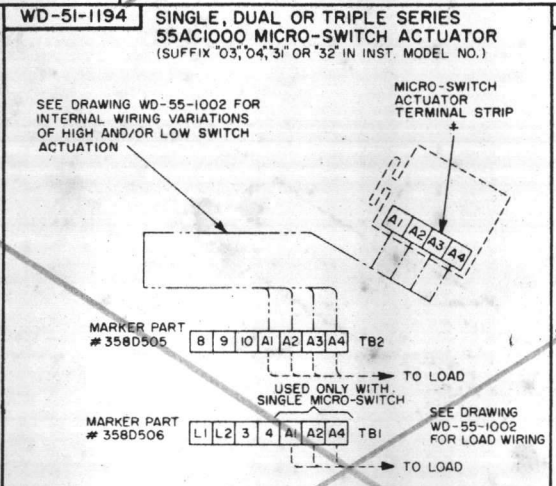
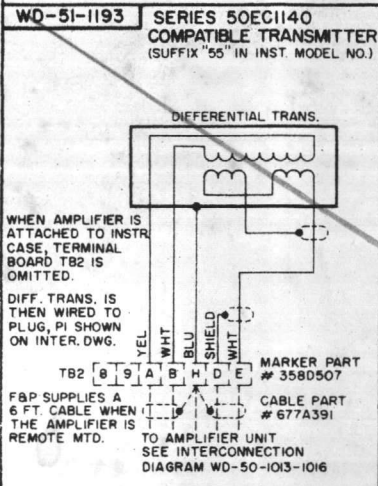
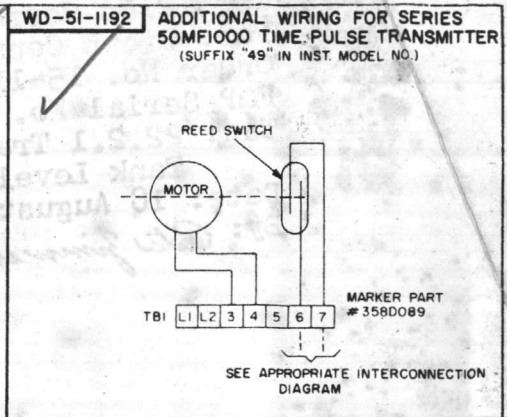
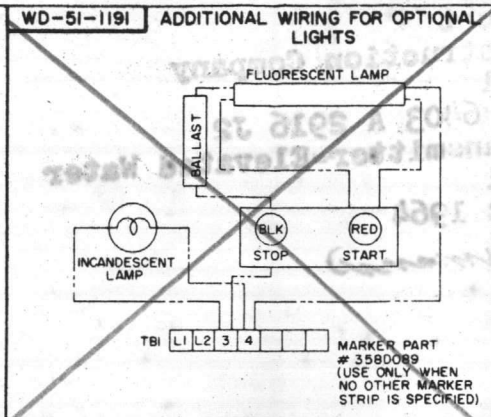
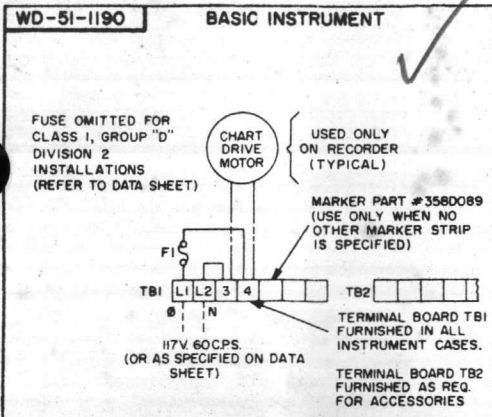
PIPE STAND MOUNTING



REV.	DATE	BY	CHKD.	DESCRIPTION
3	5-20-64	JL	WJ	REVISED CONNECTIONS, REVISED TRADE MARKS.
2	5-15-64	JL	WJ	REVISED TRADE MARKS.
1	5-15-64	JL	WJ	REVISED TRADE MARKS.
0				

OUTLINE DIMENSIONS
SINGLE DEPTH
INSTRUMENT CASE
SERIES 1100

F FISCHER & PORTER CO.
WARRINGTON, PA., U.S.A.
OD-51-1064



NOTES

- (---) DENOTES CUSTOMER WIRING
- (---) PHANTOM WIRING DENOTES WIRING FOR OPTIONAL ACCESSORIES
- * RELAY CONTACTS SHOWN IN DE-ENERGIZED POSITION. CONTACT RATING: 5 AMP 117 V A.C. OR 24V D.C. NON-INDUCTIVE. TO REVERSE RELAY ACTION, INTERCHANGE THE LARGER YELLOW WIRES ON TERMINALS 1 AND 2 ON THE CORRESPONDING INDUCTALARM ASSEMBLY TERMINAL BLOCK DIFFERENTIAL TYPE ONLY
- † WHEN MAIN TERMINAL STRIP TERMINALS ARE NOT AVAILABLE INDUCTALARMS AND MICRO-SWITCHES MUST BE INTERCONNECTED FROM THEIR ACTUATOR TERMINALS.
- FI ALL FUSES ARE 1 AMPERE, 125 VOLT
3. SWITCH & FUSE OMITTED FOR CLASS 1, DIV. 2; MAY BE REPLACED WITH HERMATICALLY SEALED CIRCUIT BREAKER WIRED BETWEEN L1 & 4, JUMPER L2 TO 3.

FOR ACCEPTABLE ZONE TYPE INDUCTALARM

	BELOW ZONE	WITHIN ZONE	ABOVE ZONE
LOAD "B"	DE-ENERGIZED	ENERGIZED	DE-ENERGIZED
LOAD "A"	ENERGIZED	DE-ENERGIZED	ENERGIZED

FOR DIFFERENTIAL TYPE INDUCTALARM

	BELOW SET POINT	ABOVE SET POINT
LOAD "A"	DE-ENERGIZED	ENERGIZED
LOAD "B"	ENERGIZED	DE-ENERGIZED

8	60-19185	ADDED NOTE 3; INTERCONNECTION INFORMATION; TBI, TBI2, B & N DESIGNATIONS	SMITHALL & SMITHALL	23 MAR 57	23 MAR 57	23 MAR 57
7	60-17870	REDRAWN, CHANGED HEADINGS & NOTES; SEE REV. 6 IN VOID FILE	SMITHALL & SMITHALL	23 MAR 57	23 MAR 57	23 MAR 57
0	2001-52					
REV	WD No.	REV No.	DESCRIPTION	SCALE	DATE	BY

WIRING DIAGRAMS
STD RECORDER OR INDICATOR
WITH OPTIONAL LIGHTS,
TRANSMITTERS OR ALARMS

FISCHER & PORTER CO.
WARRINGTON, PA., U.S.A.

DRAWING NUMBER: WD-51-1190-1199

REV: 8

PRINTS TO: 20 34 38

Certified Correct
For: Brown Construction Company
Order No. 15-11
F&P Serial No. 6403 A 2916 J2
Tag: 22.2.1 Transmitter-Elevated Water
Tank Level
Date: 18 August 1964
By: *Alta Zimmermann*