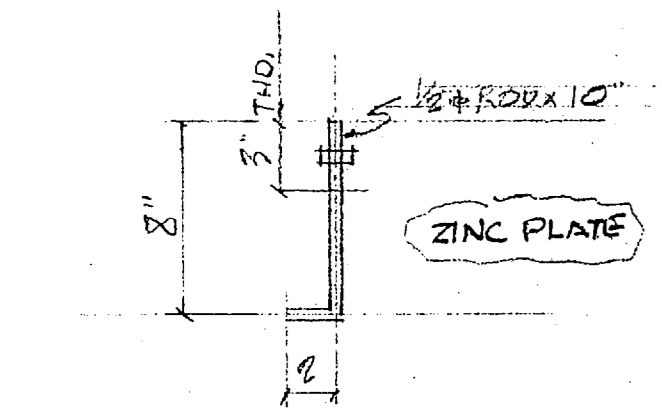
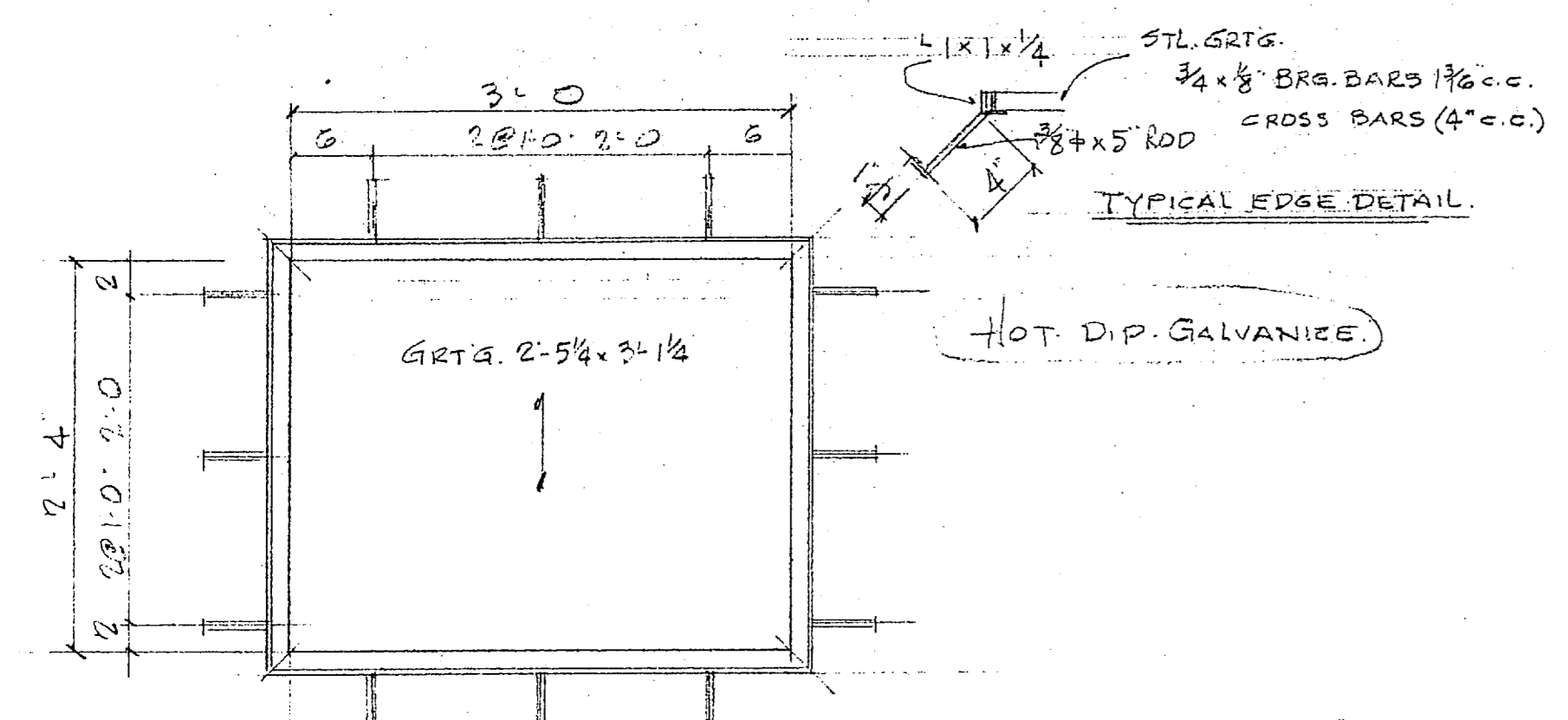


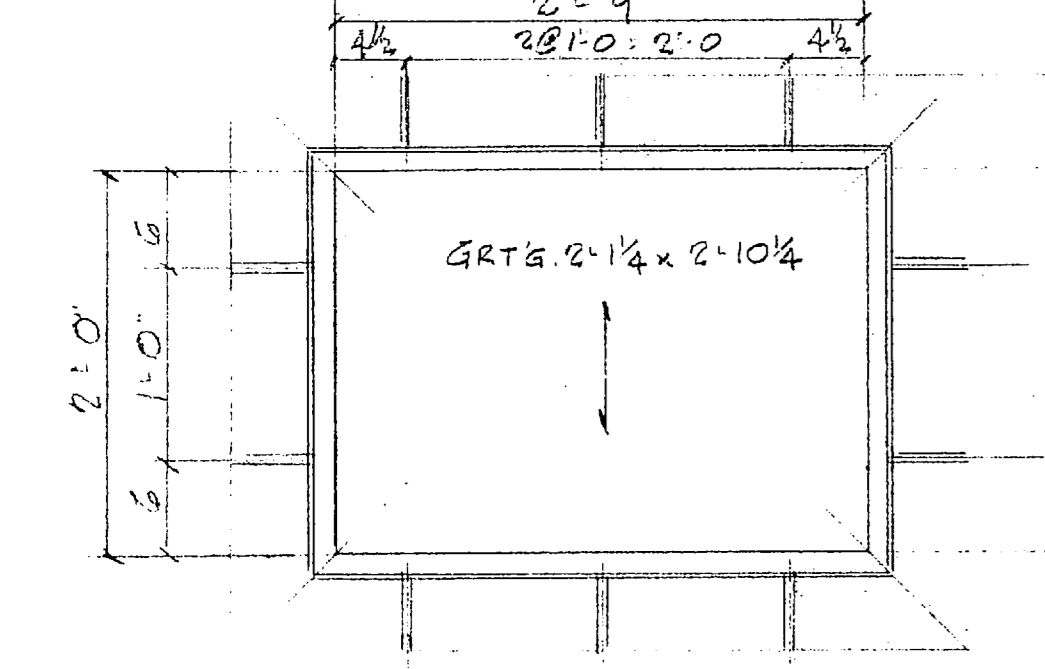
ONE ANGLE FRAME - THUS - 1FI
ITEM NO/2 REF. DWG. S-2



292 ANCHORS WITH 1/2" I.B.I.
ANCHOR BOLTS & WOOD BLOCKING.
76 REQ'D ITEM NO/9 - TREATMENT ADDN.
160 REQ'D ITEM NO/20 - FILTER ADDN.
56 REQ'D ITEM NO/30 RAW WATER PUMP STA.

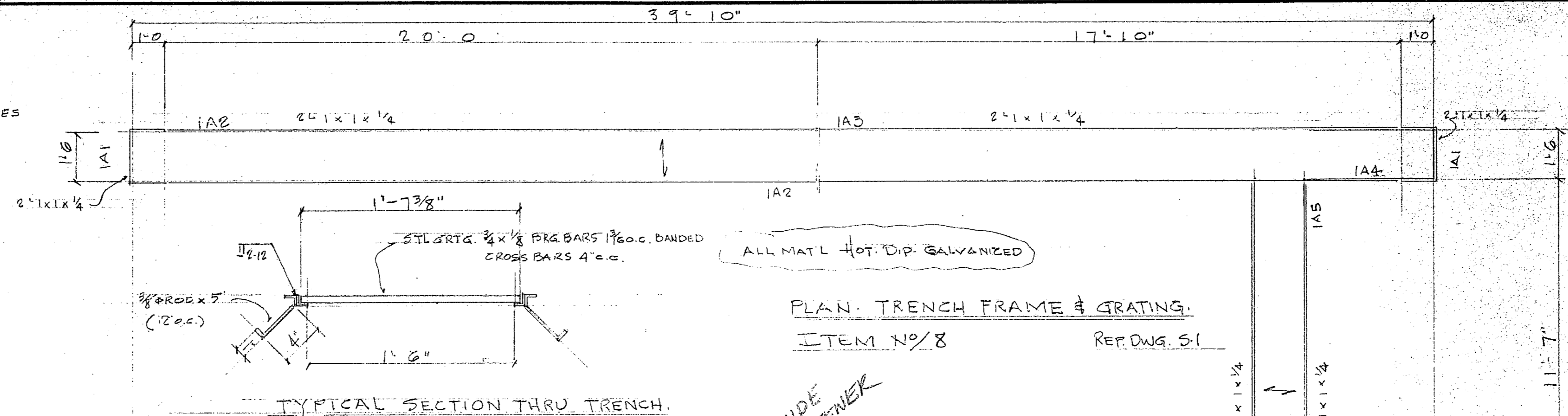


ONE FRAME - 1F2

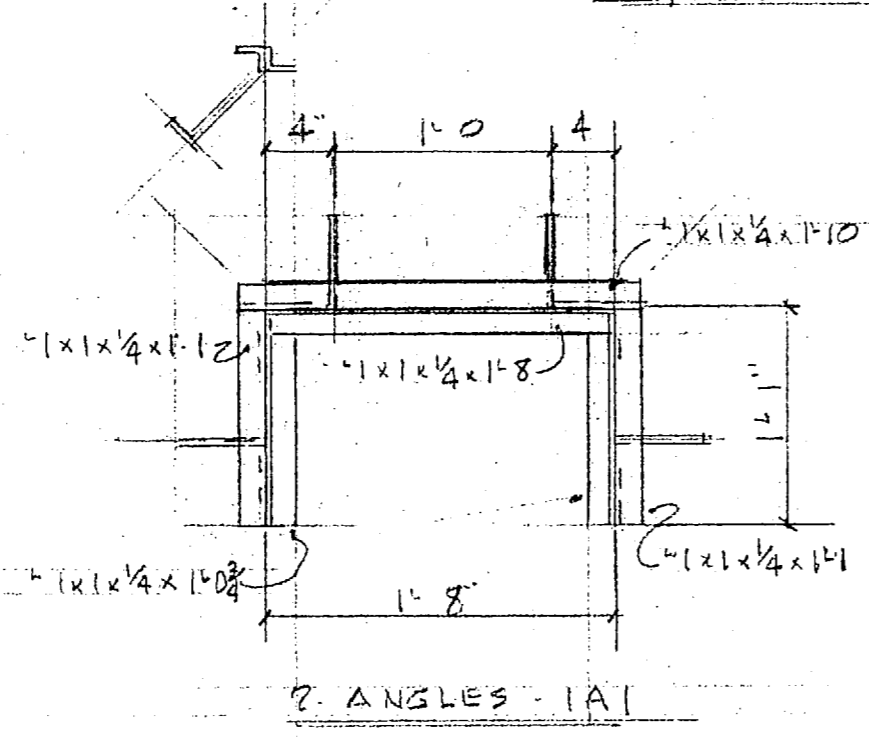


3 - FRAMES - 1F3

ITEM NO/21 GRATINGS & ANGLE FRAMES.
FILTER ADDN. REF. DWG. S-4



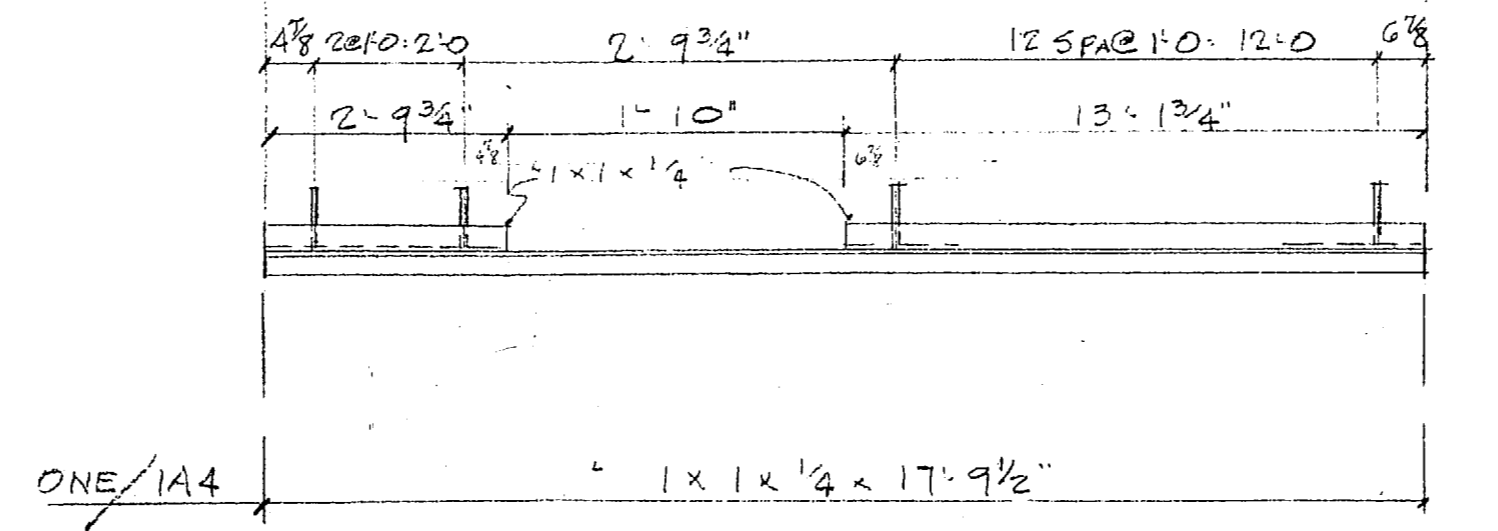
PLAN - TRENCH FRAME & GRATING.
ITEM NO/8 REF. DWG. S-1



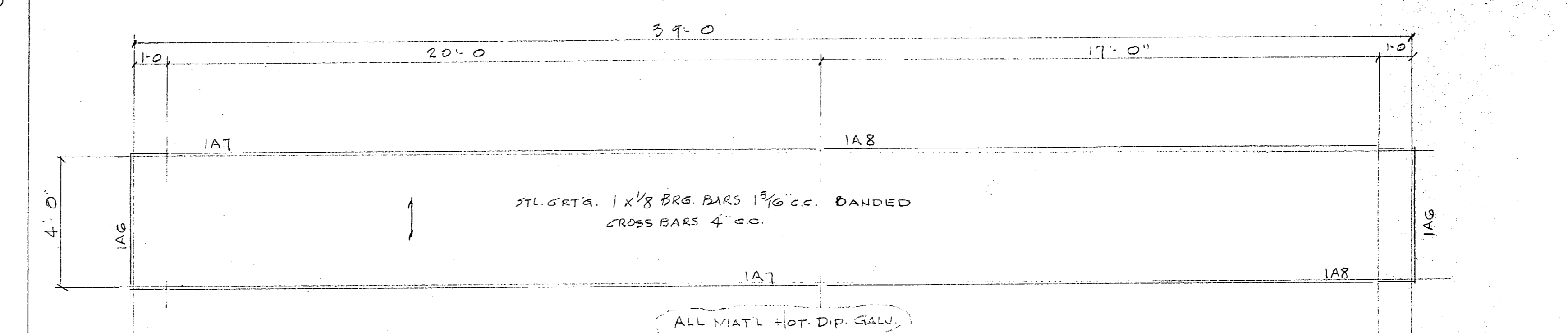
TYPICAL SECTION THRU TRENCH.

1A2	6	19 SPACES @ 1'-0" = 19'-0"	6	40
1A3	4 3/4	17 SPACES @ 1'-0" = 17'-0"	4 3/4	18
1A5	2 7/8	11 SPACES @ 1'-0" = 11'-0"	2 7/8	22

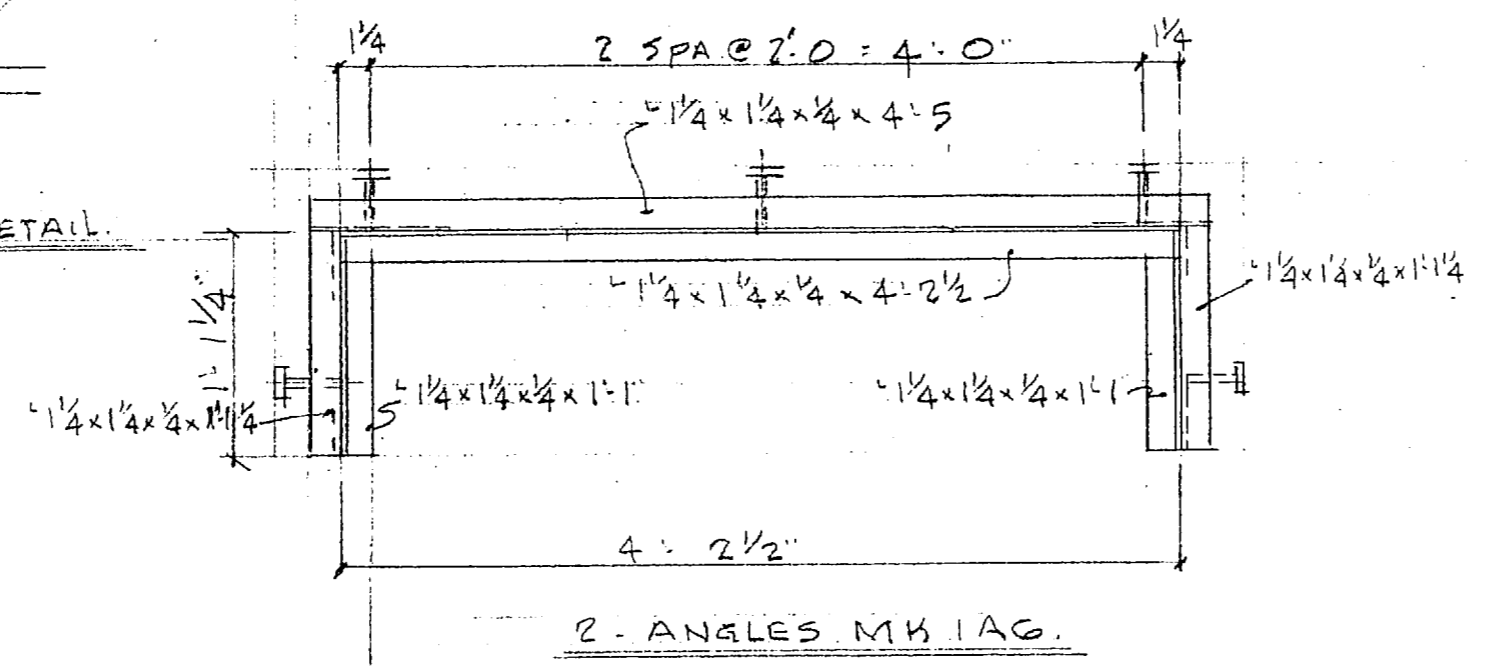
2/1A2	2	2" x 1" x 1/4" x 20'-0"		
ONE/1A3	1	2" x 1" x 1/4" x 17'-9 1/2"		
2/1A5	2	2" x 1" x 1/4" x 11'-5 3/4"		



ONE/1A4 1" x 1" x 1/4" x 17'-9 1/2"



PLAN - TRENCH FRAME & GRATING.
ITEM NO/24 REF. DWG. S-10



TYP. EDGE DETAIL

1A7	12	9 SPACES @ 2'-0" = 18'-0"	12	20
1A8	5 3/8	8 SPACES @ 2'-0" = 16'-0"	5 3/8	30

2/1A7	2	2" x 1 1/4" x 1/4" x 20'-0"		
2/1A8	2	2" x 1 1/4" x 1/4" x 16'-11 3/4"		

2 - ANGLES MK 1A9.

It is hereby certified that the material (equipment) shown and marked in this submittal, shop drawings, catalog cut (s), etc., and approved/proposed to be incorporated into Contract Number NS247081-C-1644 is in compliance with the Contract Drawings and Specifications and can be installed in the allocated space, and is:

Approved for use.

Submitted for Government approval.

Approved or use subject to Government approval of specific deviation.

Authorized Reviewer: *Phil Jones* DATE: *4-9-85*
Signature CQC Rep. DATE: *4-9-85*

J. School 3-18-85

EXR JT. DETAIL ?

BILL OF MATERIALS

ITEM NO.	MARK	NO. PCS	SHAPE	LENGTH	REMARKS
2	1F1	ONE	FRAME		
		4	2" x 1 1/4" x 1/4"	6'-4"	
		86	1/2" STUDS	4"	
8	1A1	2	ANGLES		
		4	1 1/2" x 1/4"	14'-0 1/2"	
		2		1'-8"	
		4		1'-2"	
		2		1'-10"	
		8	3/8" ROD	5"	BEND
8	1A2	4	1" x 1/4"	20'-0"	
8	1A3	2	1" x 1/4"	17'-9 1/2"	
8	1A5	4	1" x 1/4"	11'-5 3/4"	
		82	3/8" ROD	5"	BEND.
8	1A4	ONE	1" x 1/4"	17'-9 1/2"	
		1	1" x 1/4"	2'-9 1/2"	
		1	1" x 1/4"	13'-1 3/4"	
21	1F2	ONE	FRAME		
		2	1" x 1/4"	3'-2"	
		2	1" x 1/4"	2'-6"	
		12	3/8" ROD	5"	
21	1F3	3	FRAMES		
		6	1" x 1/4"	2'-11"	
		6	1" x 1/4"	2'-2"	
		20	3/8" ROD	5"	
24	1A6	2	ANGLES		
		2	1 1/2" x 1/4"	4'-2 1/2"	
		2	1 1/2" x 1/4"	4'-5"	
		4	1 1/2" x 1/4"	1'-1 1/2"	
		10	1/2" STUDS	2"	
24	1A7	2	1 1/2" x 1/4"	20'-0"	
24	1A8	2	1 1/2" x 1/4"	16'-11 3/4"	
		38	1/2" STUDS	2"	
9	1AB1	76	ANCH. BOLTS		
20	1AB1	160	ANCH. BOLTS		
30	1AB1	56	ANCH. BOLTS		
		272	ROD 1/2"	0'-10"	BEND.
		272	1/2" NUTS		

FOR APPROVAL ONLY

PRINTS	DEEMAN-HUGHES CORPORATION	PROJECT HOLDEN BLVD. WATER TREATMENT
11 A	ARCHITECTURAL METALS P. O. BOX 9677	PAINT CAMP LEJONE, N.C.
	GREENSBORO, N.C.	CONTRACTOR HARRY PEPPER & ASSOC. INC.
		JACKSONVILLE, FLORIDA
ERECTOR GEN. CONTR.	ARCH/ENG. HENRY VON DESEN	MADE BY COUSON DATE MAR-85
PAINT H.D. GALV.		JOB NO. 3417
SPECIAL INSTRUCTIONS		SHEET NO. 1
		DETAILS OF 2-8-9-20-21-24-30

NO.	DATE	DESCRIPTION	REVISIONS

Small rectangular stamp or form with illegible text.

FOR REPRODUCTION ONLY

ITEM NO/10 ANGLE LINTEL
TREATMENT ADDN.

ONE 2L1 - 3/2 x 3/2 x 5/8 x 4'8" @ DOOR NO/1

ITEM NO/19 ANGLE LINTELS
FILTER ADDN.

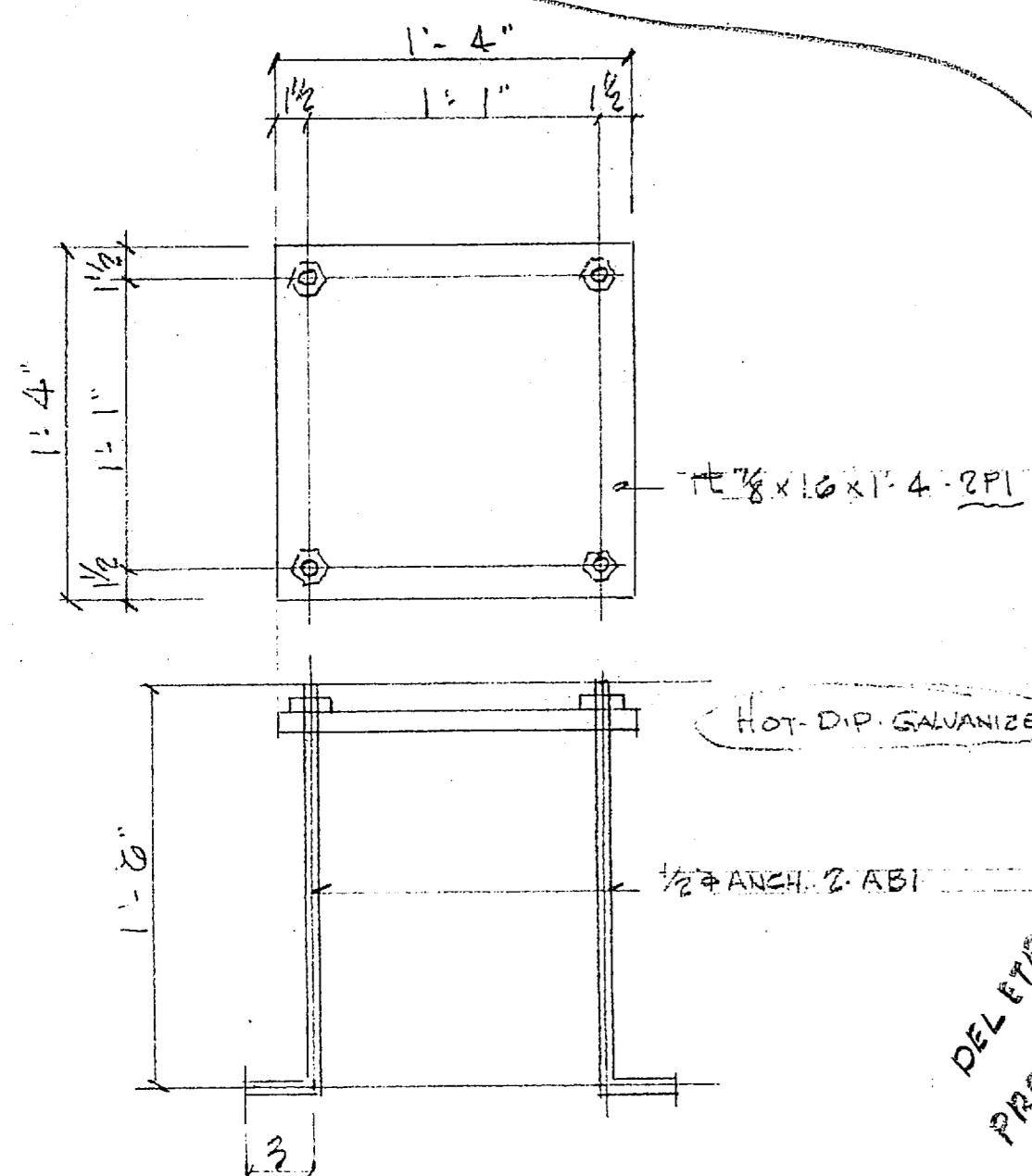
7 - 2L1 - 3/2 x 3/2 x 5/8 x 4'8" @ DOORS.

ITEM NO/25 ANGLE LINTELS
RAW WATER PUMP STATION.

3 - 2L2 - 5 x 3 1/2 x 5/8 x 9'-0" WINDOW & INTAKE LOUVER
ONE 2L3 - 3/2 x 3/2 x 5/8 x 4'-4" DOOR 8
ONE 2L4 - 4 x 3 1/2 x 5/8 x 5'-4" DOOR 9
ONE 2L5 - 5 x 3 1/2 x 5/8 x 7'-4" DOOR 10
ONE 2L6 - 3/2 x 3/2 x 5/8 x 5'-0" EXHAUST LOUVER
ONE 2L7 - 3/2 x 3/2 x 5/8 x 2'-6" GRILL

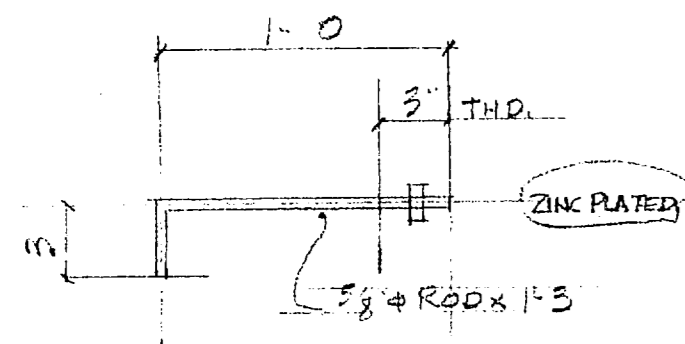
ITEM NO/35 ANGLE LINTELS
FINISH WATER RESEVOIR

ONE 2L8 - 5 x 3 1/2 x 5/8 x 7'-4" DOOR 12
ONE 2L9 - 3/2 x 3/2 x 5/8 x 4'-4" DOOR 11
3 2L10 - 5 x 3 1/2 x 5/8 x 9'-0" WINDOW'S



12 - P'S THUS. ITEM NO/11.

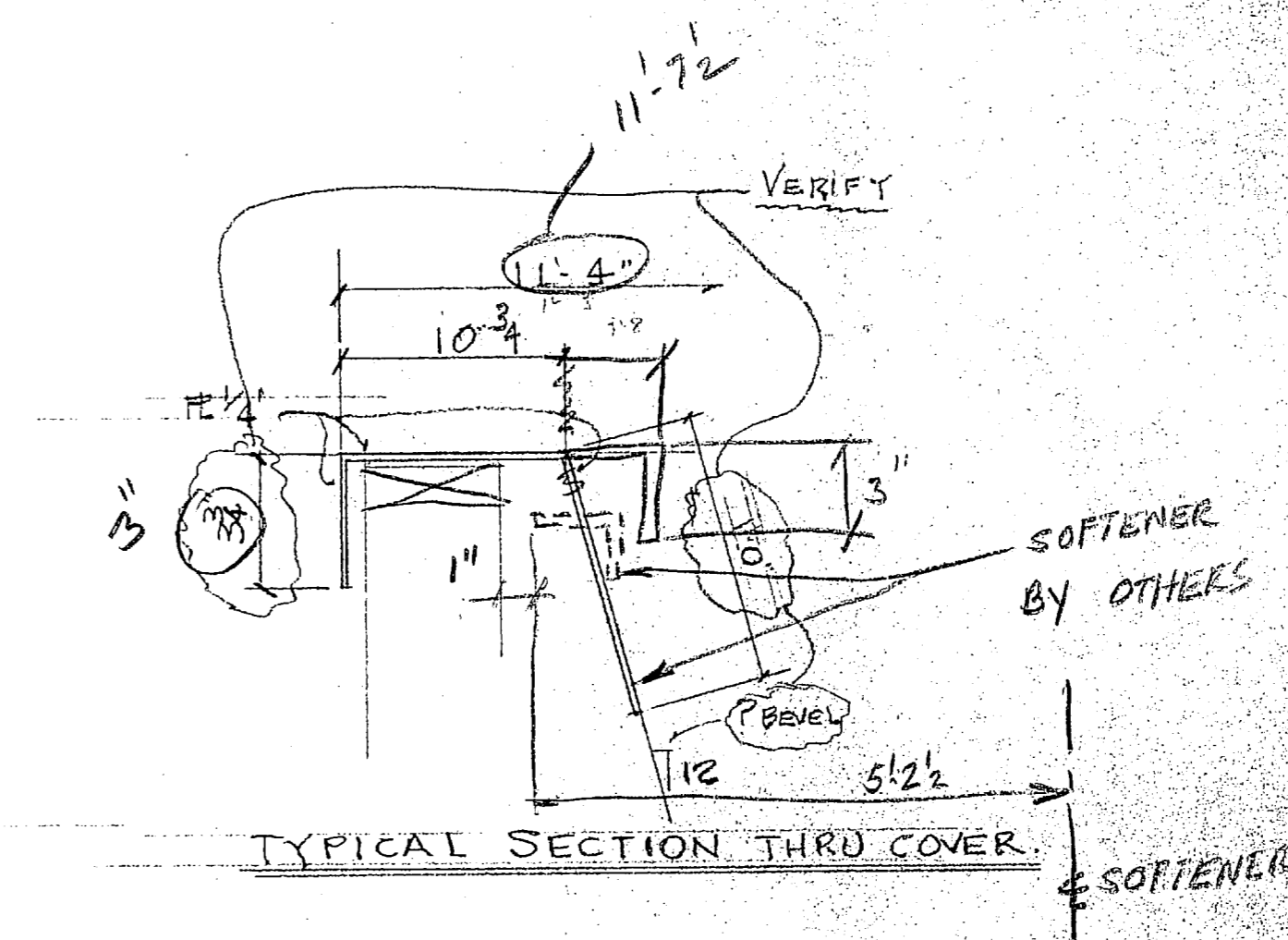
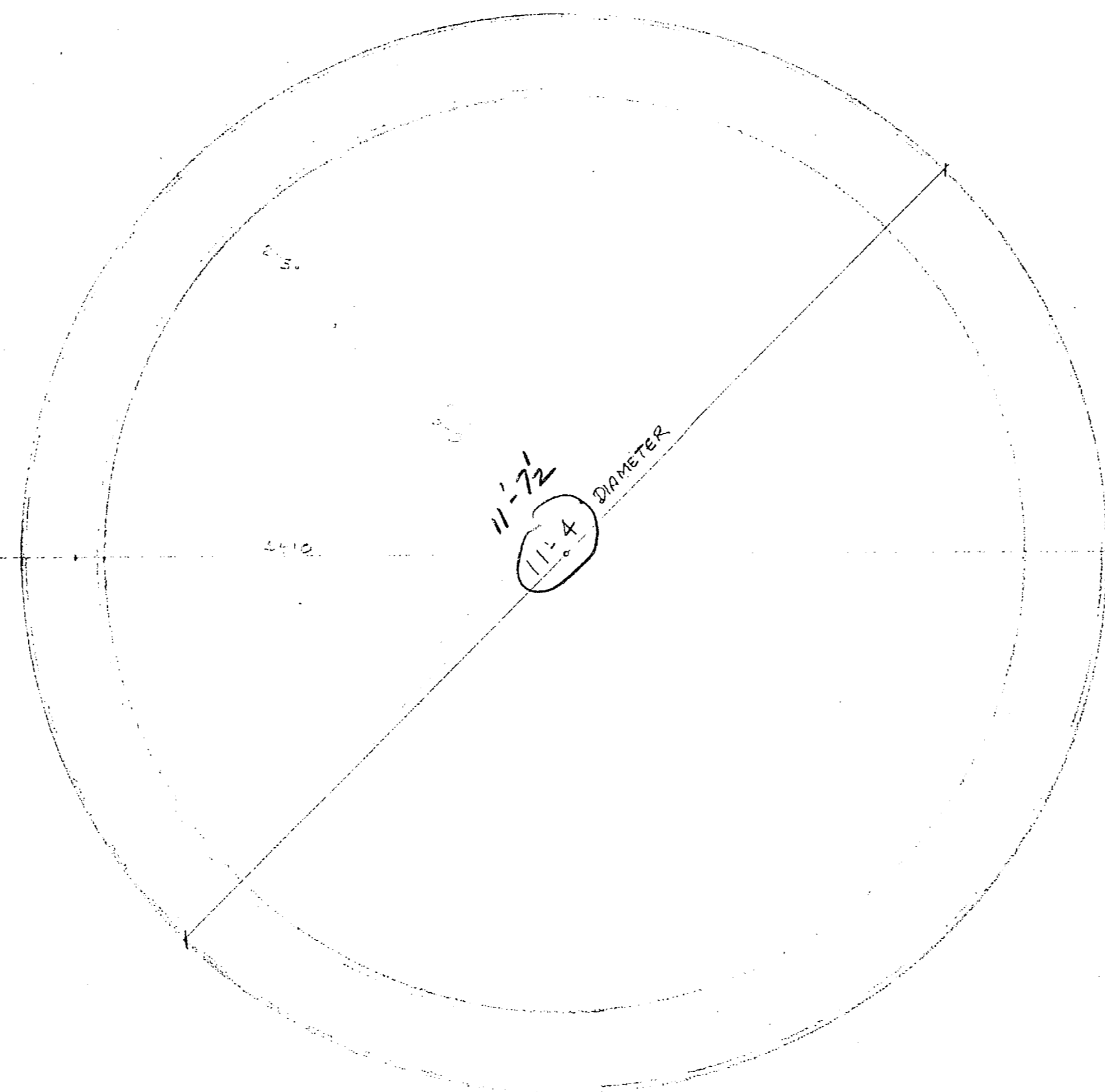
TREATMENT ADDN. REF DWG 51 & 53



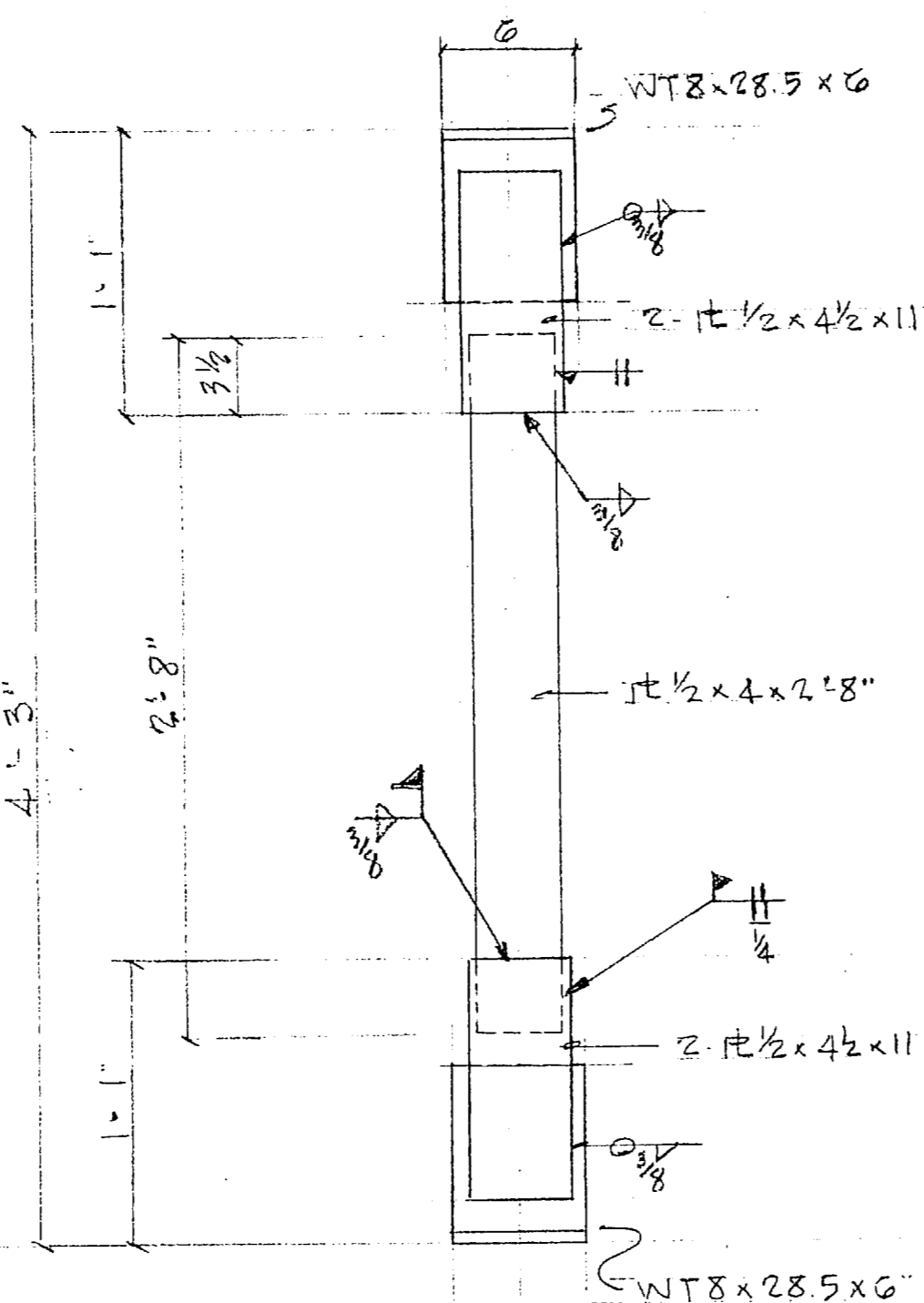
24 ANCH BOLTS. 2 AB2

ITEM NO/17 ANCHORS @ DOCK BUMPERS

FILTER ADDN. REF DET 539

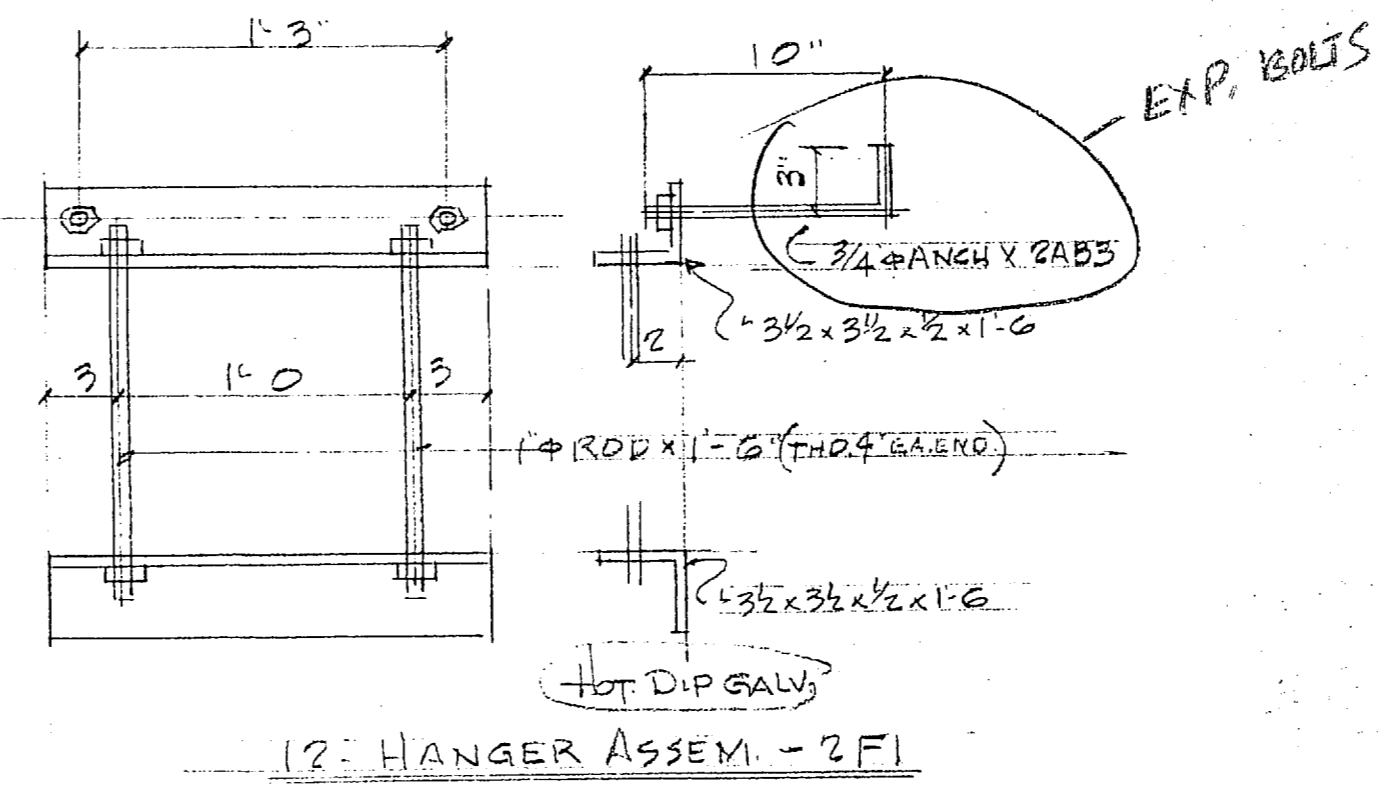


ITEM NO/11A. CURB COVER @ WATER SOFTENER.
{PAINT} REF DET 5A7

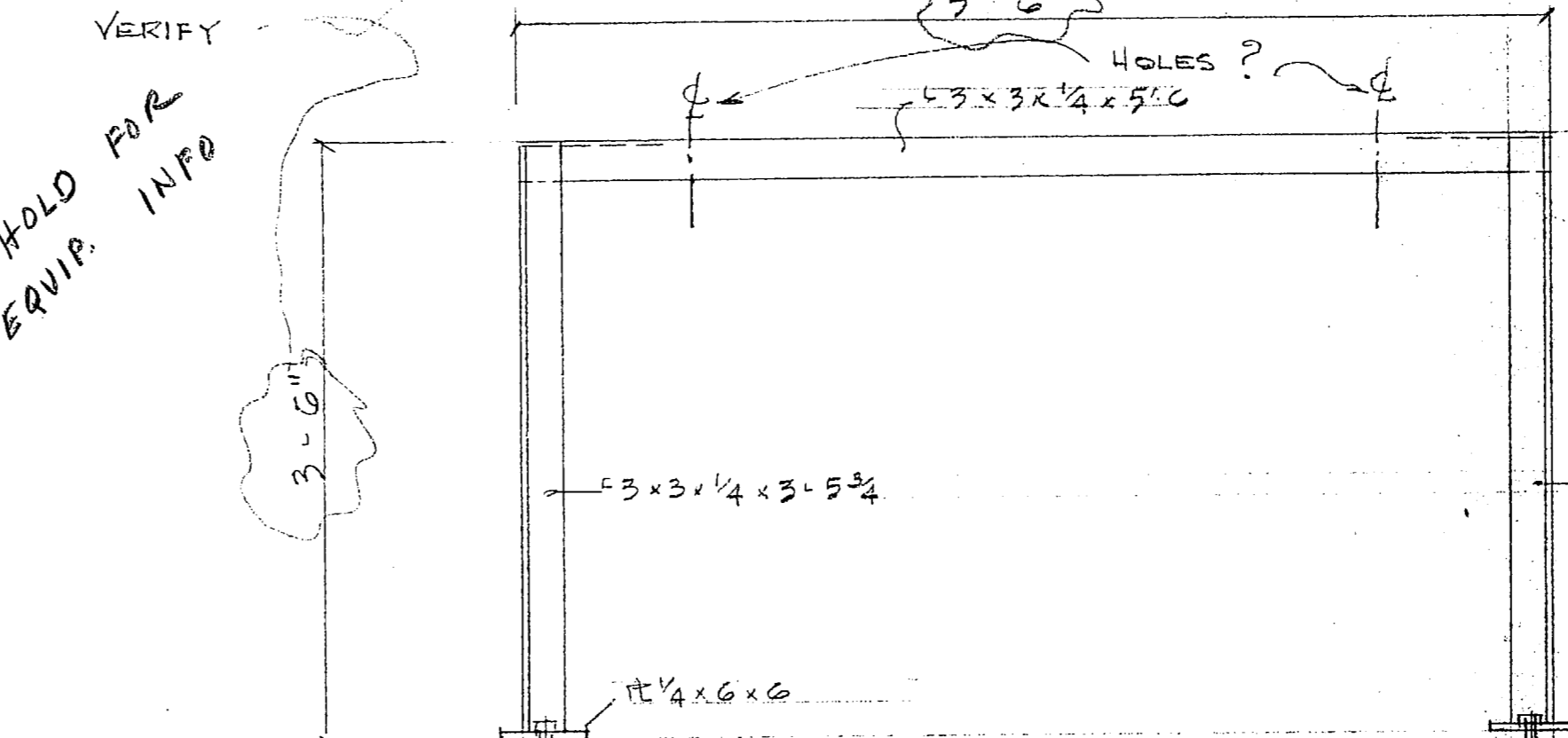


ONE HANGER MK-2H1 {PAINT}

ITEM NO/16 HANGER ASSEMBLY @ STAIR PLATFORM.
FILTER ADDN. ARCH REF DWG 51



ITEM NO/22 HNGR ASSM. @ TROUGH'S.
FILTER ADDN. REF DWG 55



ONE FRAME - 2F2

ITEM NO/23 CHLORINE HEADER FRAME
FILTER ADDN. REF DWG 312
{H.D. GALV}

BILL OF MATERIALS					
ITEM NO.	MARK	NO. PCS	SHAPE	LENGTH	REMARKS
10	2L1	ONE	3/2 x 3/2 x 5/8	4'-8"	PLAIN HDG
19	2L1	7	3/2 x 3/2 x 5/8	4'-8"	PLAIN HDG
25	2L2	3	5 x 3 1/2 x 5/8	9'-0"	PLAIN HDG
25	2L3	ONE	3/2 x 3/2 x 5/8	4'-4"	
25	2L4	ONE	4 x 3 1/2 x 5/8	5'-4"	
25	2L5	ONE	5 x 3 1/2 x 5/8	7'-4"	
25	2L6	ONE	3/2 x 3/2 x 5/8	5'-0"	
25	2L7	ONE	3/2 x 3/2 x 5/8	2'-6"	DO
35	2L8	ONE	5 x 3 1/2 x 5/8	7'-4"	PLAIN HDG
35	2L9	ONE	3/2 x 3/2 x 5/8	4'-4"	DO
35	2L10	3	5 x 3 1/2 x 5/8	9'-0"	DO
11	2F1	12	1/2 x 16	1'-4"	HD GALV
11	2AB1	48	1/2 ROD	1'-9"	
		48	1/2 NUTS		
11A	R'S	3	1/4 x 6	35'-7 1/4"	PAINT
		3	1/4 x 12	30'-6"	
		12	1/4 x 27	8'-0 1/2"	
17	2AB2	24	5/8 ROD	1'-3"	HD GALV
		24	5/8 NUTS		
16	2H1	ONE	HANGER		PAINT
		2	WT8 x 28.5	6"	
		4	1/2 x 4 1/2	11"	
		1	1/2 x 4	2'-8"	
22	2F1	12	HANGERS		HD GALV
		24	3/2 x 3 1/2 x 1/2	1'-6"	
		24	1" ROD	1'-6"	
	2AB3	24	3/4 RODS	1'-1"	BEND
		24	3/4 NUTS		
		48	1" NUTS		
23	2F2	ONE	FRAME		HD GALV
		1	3 x 3 x 1/4	5'-6"	
		2	4 3/4 x 3 x 1/4	3'-5 3/4"	
		2	1/4 x 6	6"	
		2	1/2 THUNDERSTDS	2'-3/4"	

FOR APPROVAL ONLY

PRINTS	11 A	DEBAM-HUGHES CORPORATION	PROJECT HOLCOMB BW' WATER TREATMENT PLANT CAMP LEJEUNE, N.C.
		ARCHITECTURAL METALS - P. O. BOX 9677 GREENSBORO, N. C.	CONTRACTOR HARRY PEPPER ASSOC. INC. JACKSONVILLE, FLORIDA.
		ERECTION GEN. CONTR.	ARCH/ENG. HENRY VON DESEN.
		PAINT TT-P. 645A	MADE BY CUSSON DATE MAR-85
		SPECIAL INSTRUCTIONS	DETAILS OF 7, 10, 11, 11A, 16, 17, 19, 22, 23, 25, 31
			JOB NO. 3417 SHEET NO. 2

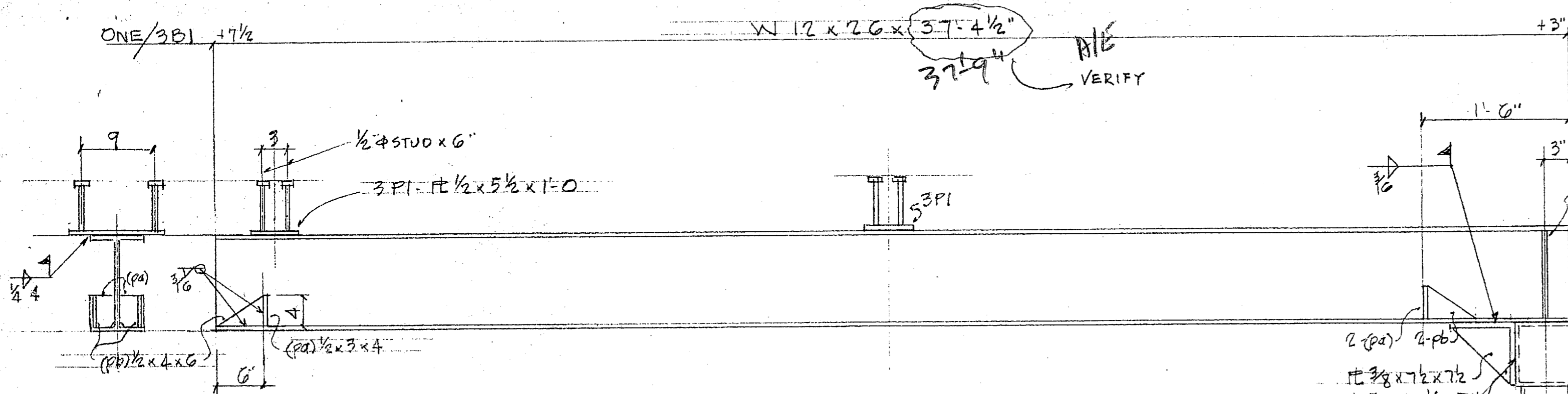
NO.	DATE	DESCRIPTION	REVISIONS

SOUTHERN PHOTO - GREENSBORO N.C.

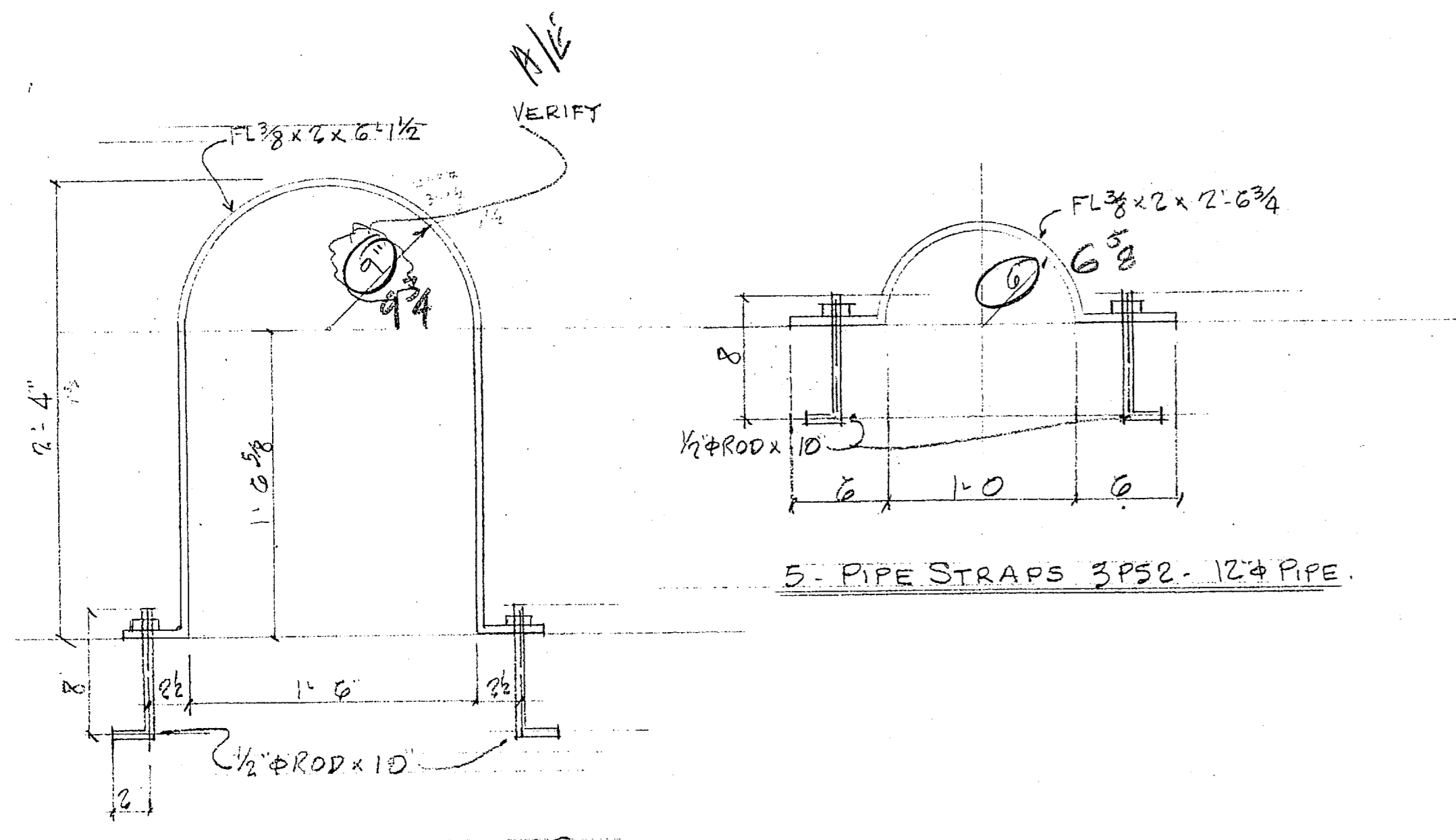
FOR FURNISHING

BILL OF MATERIALS

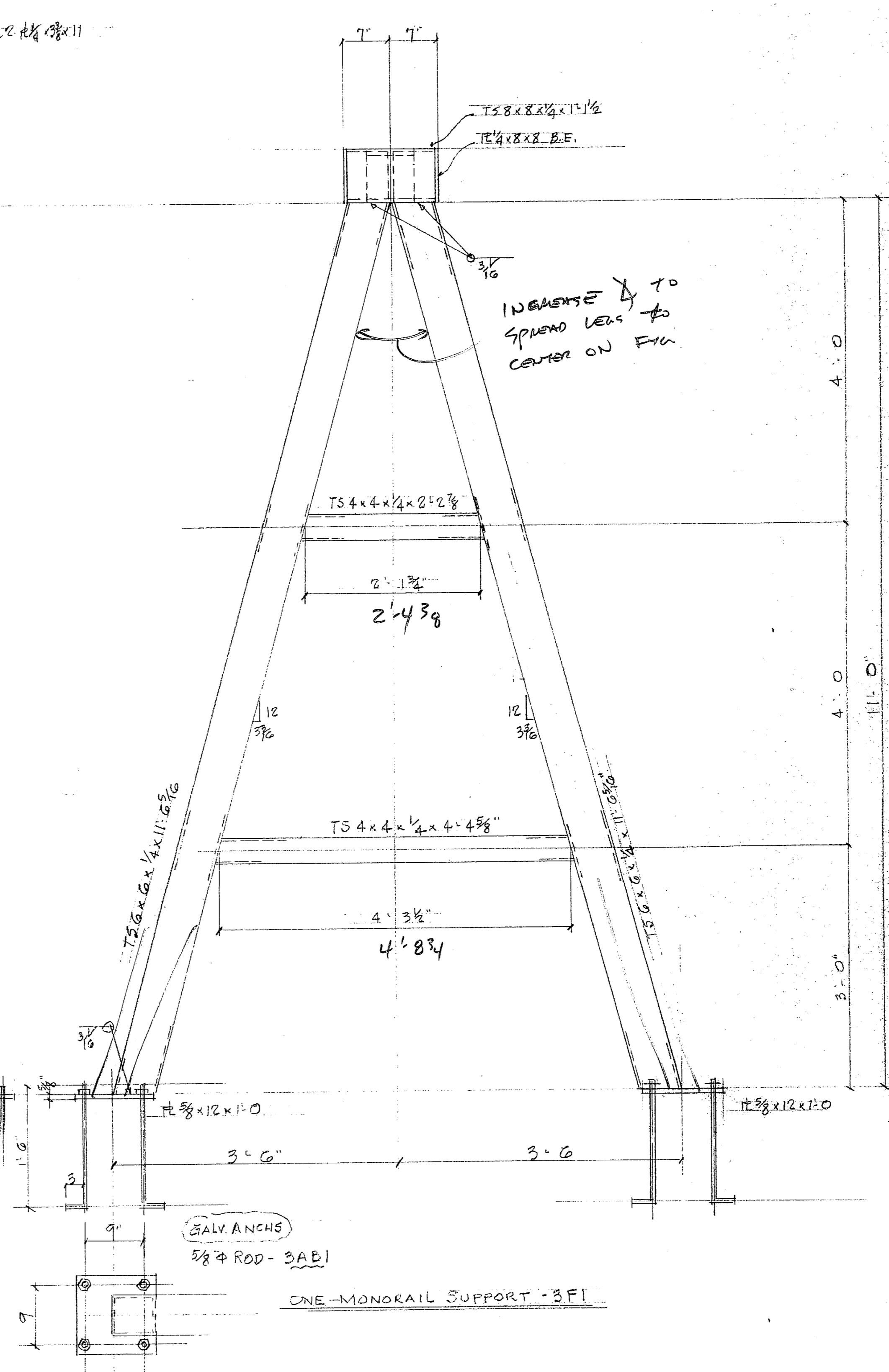
ITEM NO.	MARK	NO. PCS.	SHAPE	LENGTH	REMARKS
18	3B1	ONE	W12x26	37'-4 1/2"	PAINT
		2	FL 1/4 x 3 3/8	0'-11"	
		4	FL 1/2 x 3	4	
		4	FL 1/2 x 4	6	
18	3P1	2	1 1/2 x 5 1/2	1'-0"	
		8	1/2" STUDS	6	
18	3F1	ONE	FRAME		
		1	TS 8 x 8 x 4	1'-1 1/2"	
		2	FL 1/4 x 8	8	
		1	1-8 x 8 x 1/2	7	
		1	FL 3/8 x 7 1/2	7 1/2	
		2	TS 6 x 6 x 1/4	11'-6 3/16"	
		1	TS 4 x 4 x 1/4	2'-2 3/8"	
		1	TS 4 x 4 x 1/4	4'-4 5/8"	
		2	FL 3/8 x 12	1'-0"	
		8	3/8" ROD	1'-9"	H.D. GALV.
		8	5/8" NUTS.		
38	3PS1	ONE	FL 3/8 x 2	6'-1 1/2"	H.D. GALV.
		2	1/2" ROD	10'	
		2	1/2" NUTS.		
38	3PS2	5	FL 3/8 x 2	2'-6 3/4"	H.D. GALV.
		10	1/2" ROD	10'	
		10	1/2" NUTS.		



ITEM NO 18 MONORAIL BEAM SUPPORT.
 FILTER ADD'N. REF. DWG'S 57459



ITEM NO 38 PIPE STRAPS. H.D. GALV.
 FINISH WATER PUMP STATION REF. DWG'S M6



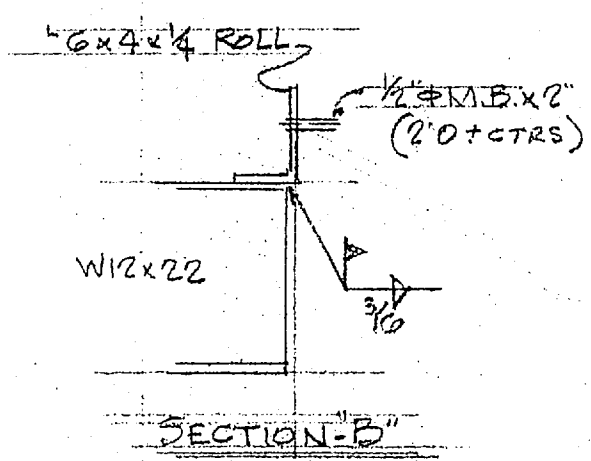
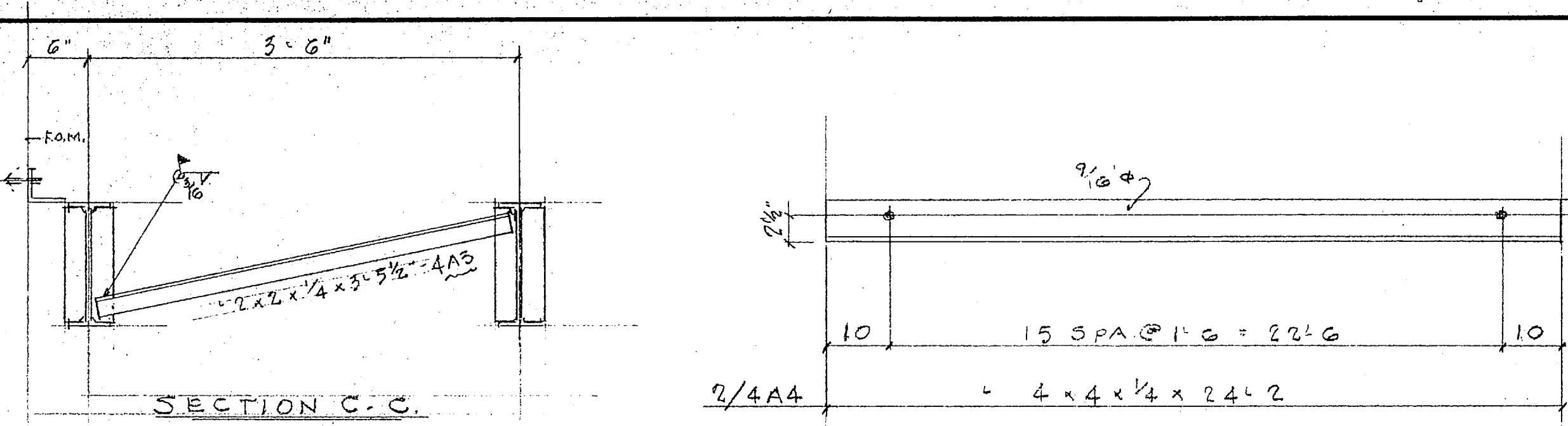
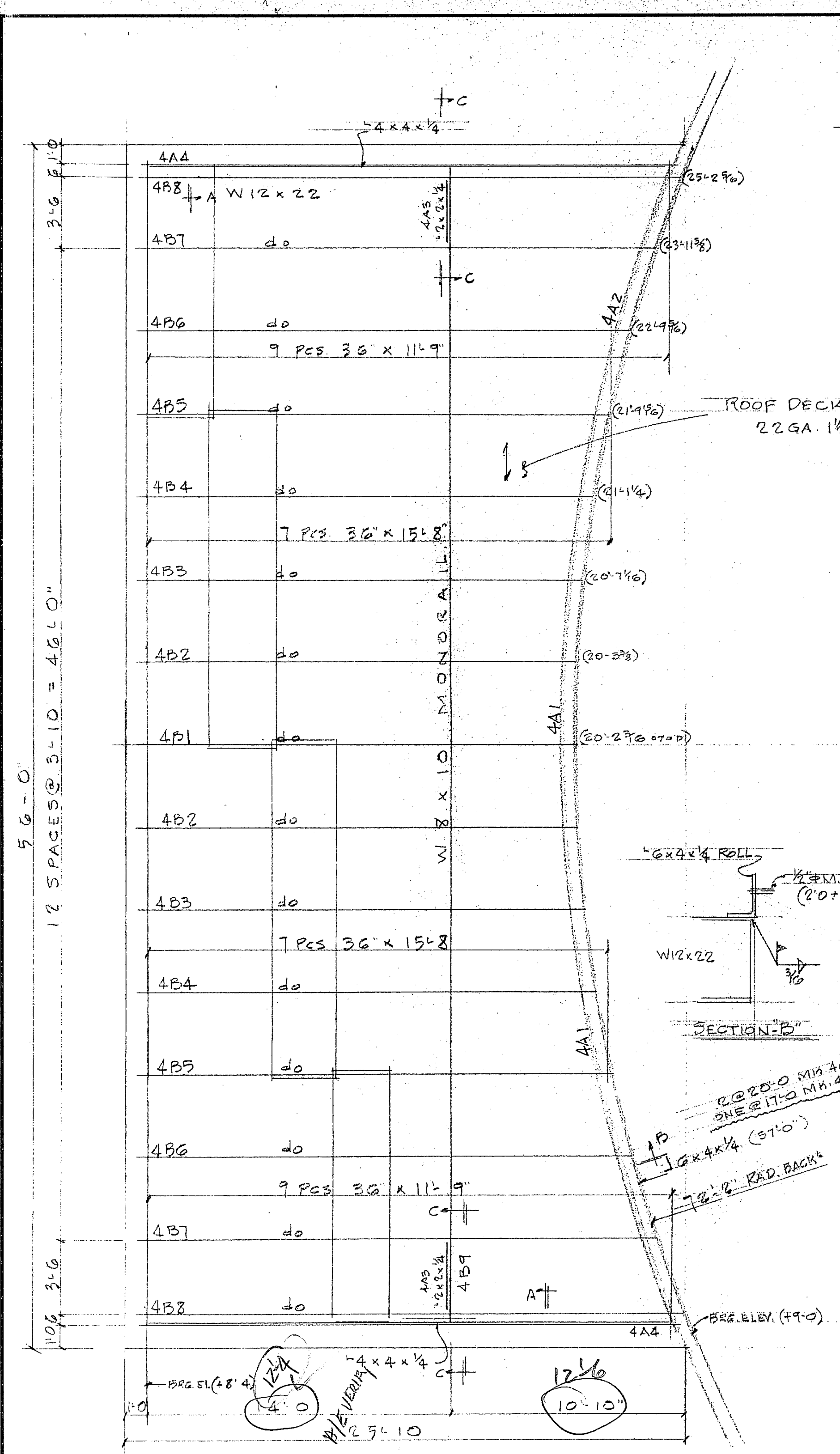
ONE MONORAIL SUPPORT - 3F1

FOR APPROVAL ONLY

PRINTS	DEBNAW-HUGHES CORPORATION	PROJECT	HOLCOMB BLVD. WATER TREATMENT PLANT - CAMP LEJEUNE, N.C.
3/16	ARCHITECTURAL METALS - P. O. BOX 9677 GREENSBORO, N. C.	CONTRACTOR	HARRY PEPPER & ASSOC. INC. JACKSONVILLE, FLORIDA.
	ERECTOR GEN. CONTR.	ARCH/ENG.	HENRY VON DESEN
	PAINT TT-P-645A / H.D. GALV.	MADE BY	CUSSON DATE MAR 85 JOB NO. SHEET NO.
	SPECIAL INSTRUCTIONS	DETAILS OF ITEMS	18440 3417 3

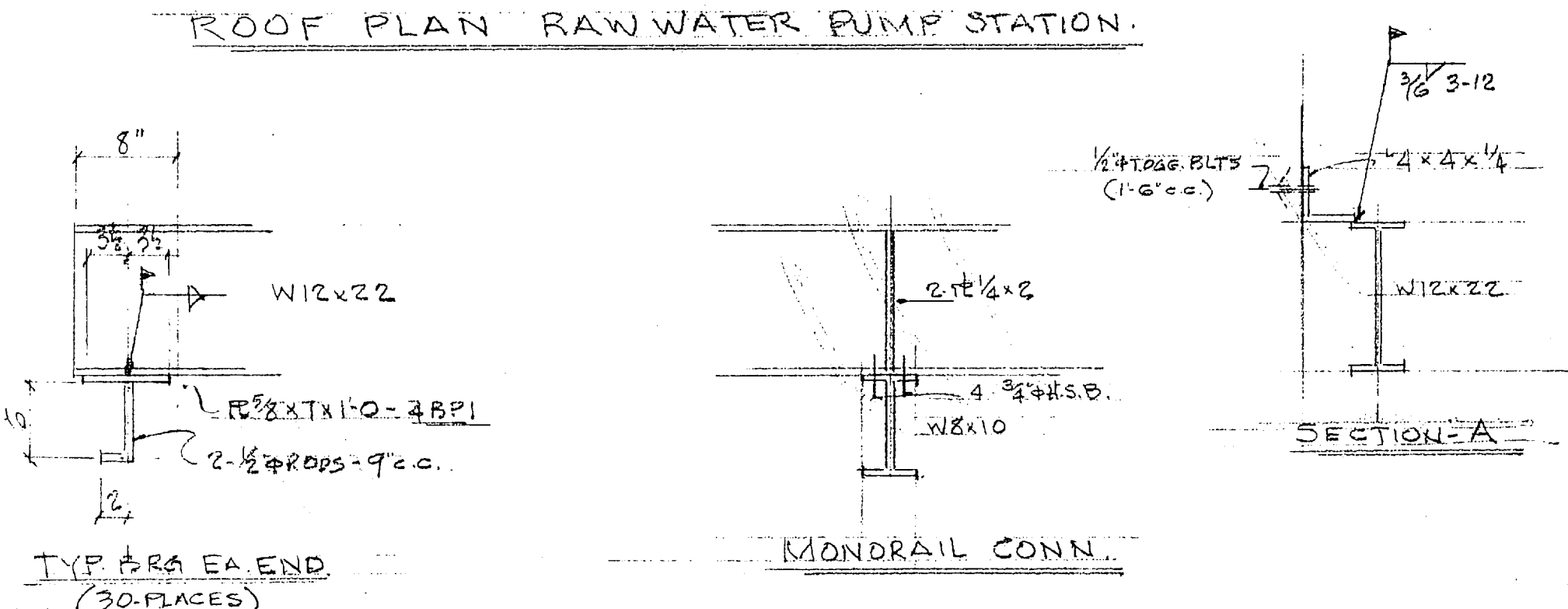
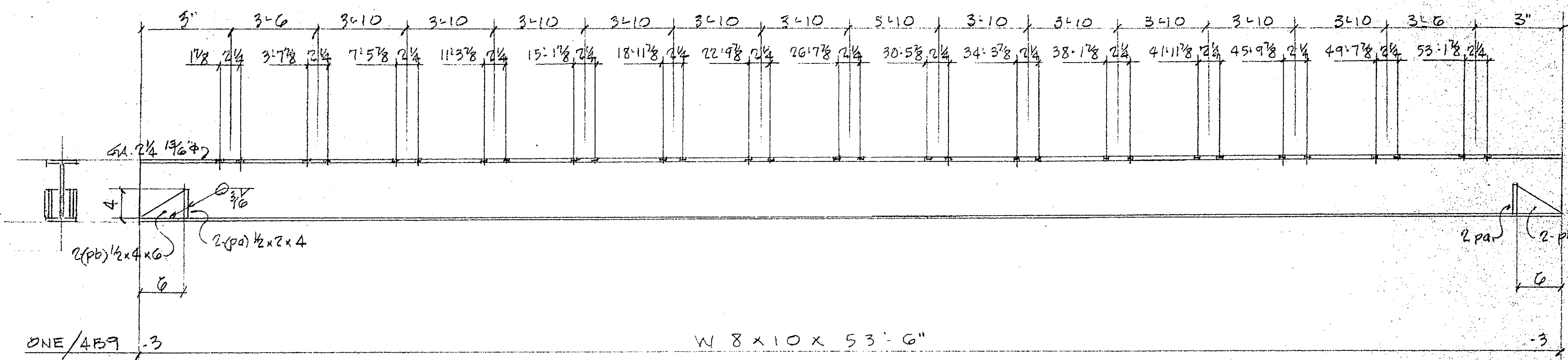
NO.	DATE	DESCRIPTION	REVISIONS

FOR APPROVAL ONLY



ONE/4B1	-4 1/2	W12x22x	19'-9 3/8	
2/4B2	-4 1/2	W12x22x	19'-10 3/8	
2/4B3	-4 1/2	W12x22x	20'-2 1/8	
2/4B4	-4 1/2	W12x22x	20'-8 1/4	
2/4B5	-4 1/2	W12x22x	21'-4 1/8	
2/4B6	-4 1/2	W12x22x	22'-4 5/8	
2/4B7	-4 1/2	W12x22x	23'-0 3/8	
2/4B8	-4 1/2	W12x22x	24'-9 5/8	

CONTRACTOR VERIFY
LENGTHS. APPROVE TO
1 1/2" LONG.



ITEM NO/26 ROOF BEAMS
ITEM NO/27 ROOF CLOSURE ANGLES
ITEM NO/28 MONORAIL BEAM
ITEM NO/29 METAL ROOF DECK
RAW WATER PUMP STATION REF DWG 5-11

PROVIDE
SUMP PANS PER
05311 - S.3.4
HERE # DWG 5

BILL OF MATERIALS

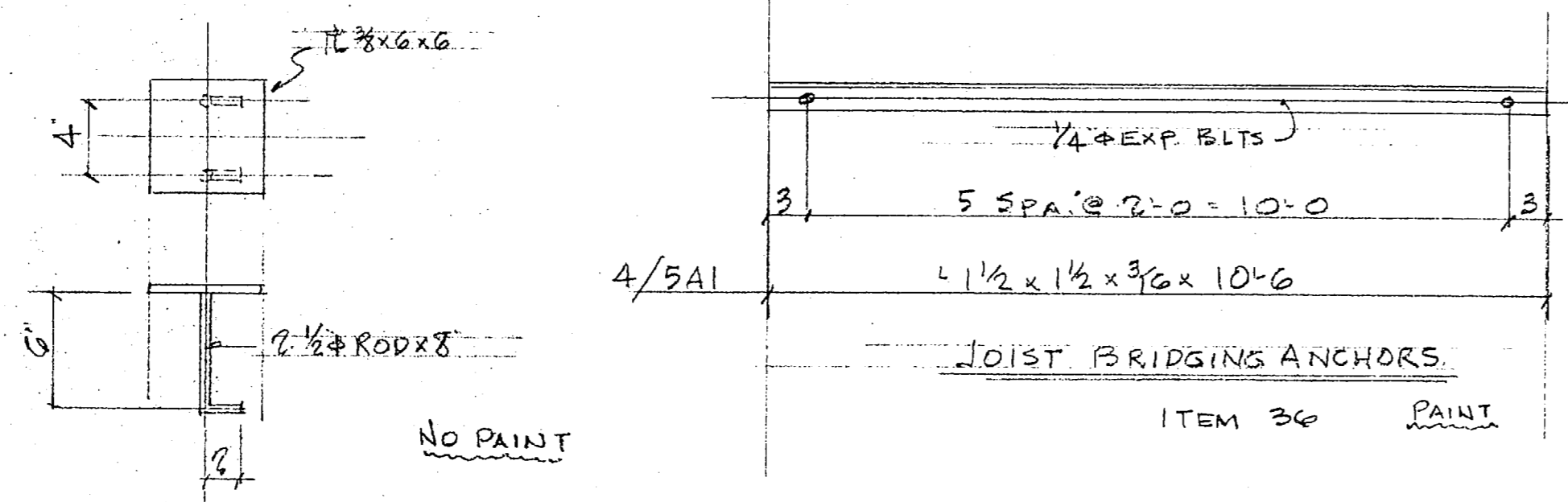
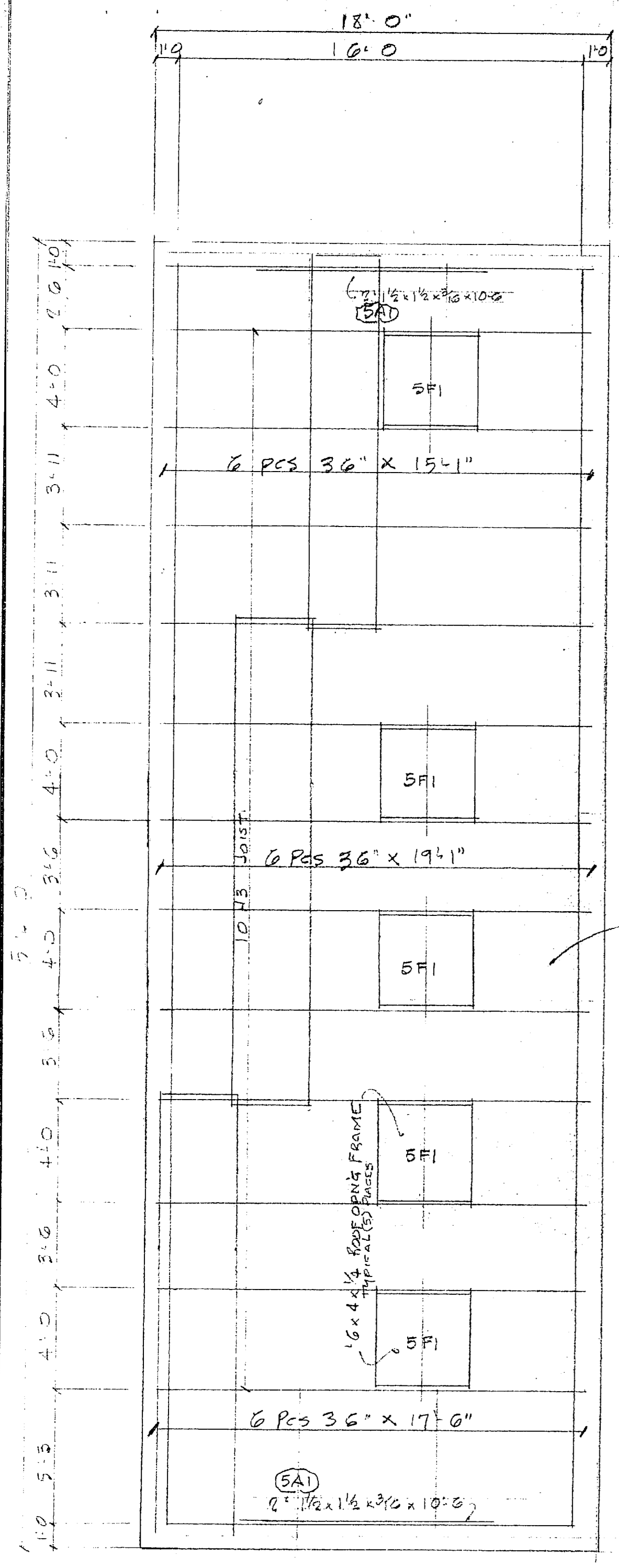
ITEM NO.	MARK	NO. PCS	SHAPE	LENGTH	REMARKS
26	4BP1	30	FL 3/8 x 7	1'-0	
		60	1/2" R.O.D.	8"	BEND
27	4A1	2	6x4x1/4	20'-0	ROLL
27	4A2	ONE	6x4x1/4	17'-0	do
		30	1/2" x 10x10	2 1/2"	(GALV)
28	4A3	2	2x2x1/4	3'-5 1/2	PLAIN
27	4A4	2	4x4x1/4	24'-2	
		32	1/2" T.O.G. BOLTS	5"	(GALV)
26	4B1	ONE	W12x22	19'-9 3/8	
	4B2	2		19'-10 3/8	
	4B3	2		20'-2 1/8	
	4B4	2		20'-8 1/4	
	4B5	2		21'-4 1/8	
	4B6	2		22'-4 5/8	
	4B7	2	do	23'-0 3/8	
	4B8	2	FL 1/2 x 2	24'-9 5/8	
		30		11"	
28	4B9	1	W8x10	53'-6	
		4	FL 1/2 x 2	4	
		4	FL 1/2 x 4	6	
29	METAL ROOF DECK 22 GA 1/2" GALV.				
		18	PCS 3" x	11'-9	
		14	PCS 3" x	15'-8	
20	FIELD BOLTS				
		60	3/8" H.S.B.	1 3/4"	A325

FOR APPROVAL ONLY

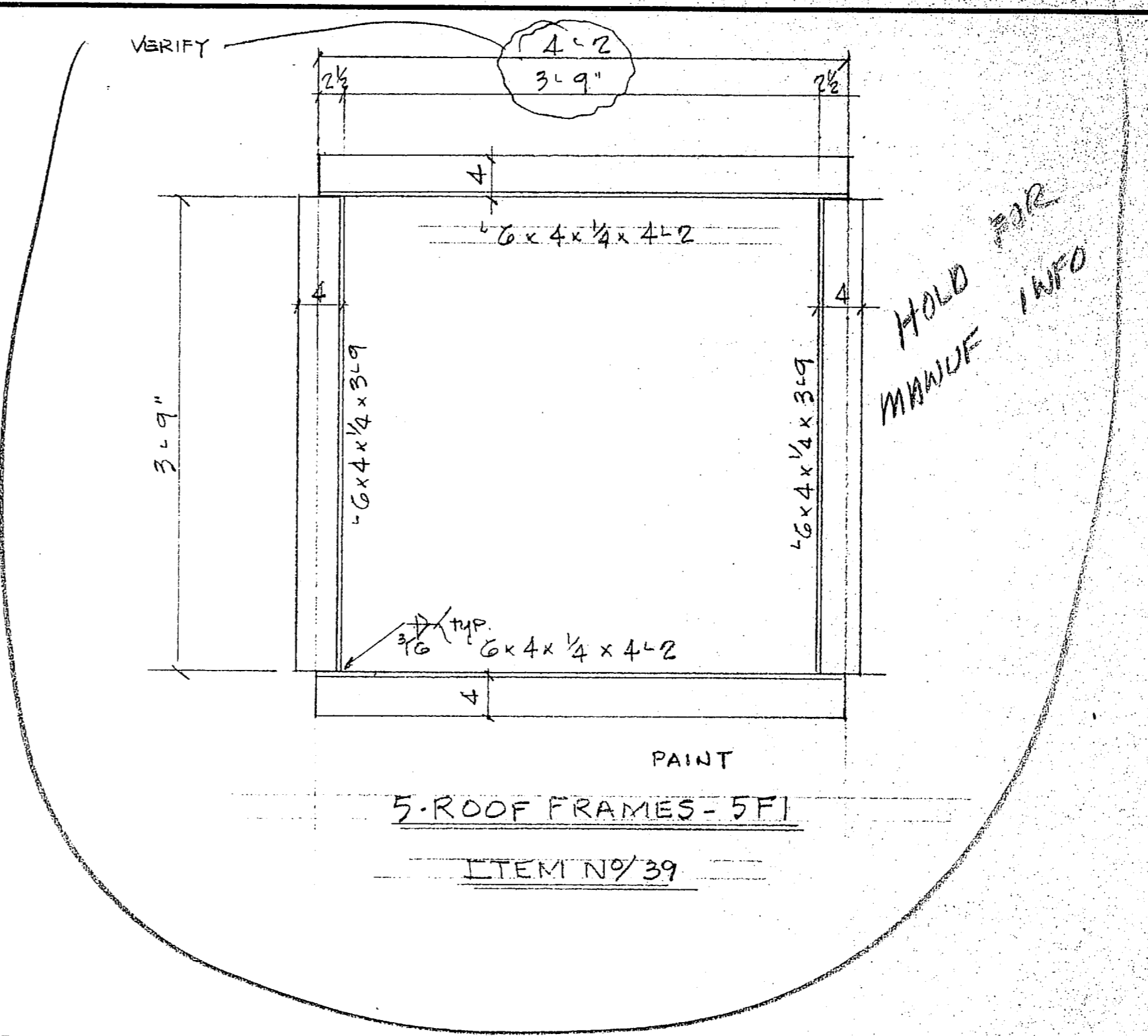
PRINTS 3/16 11 A	DEBAM-HUGHES CORPORATION	PROJECT HOLCOMB BLVD. WATER TREATMENT PLANT - CAMP LEJEUNE, N.C.
	ARCHITECTURAL METALS : P. O. BOX 9677 GREENSBORO, N. C.	CONTRACTOR HARRY PEPPER & ASSOC. INC. JACKSONVILLE, FLORIDA.
	ERECTOR GEN. CONTR.	ARCH/ENG. HENRY VON DESEN.
	PAINT TT-P.645 A	MADE BY COUSON DATE MAR-85
	SPECIAL INSTRUCTIONS	JOB NO. 3417
		SHEET NO. 2

NO.	DATE	DESCRIPTION
		REVISIONS

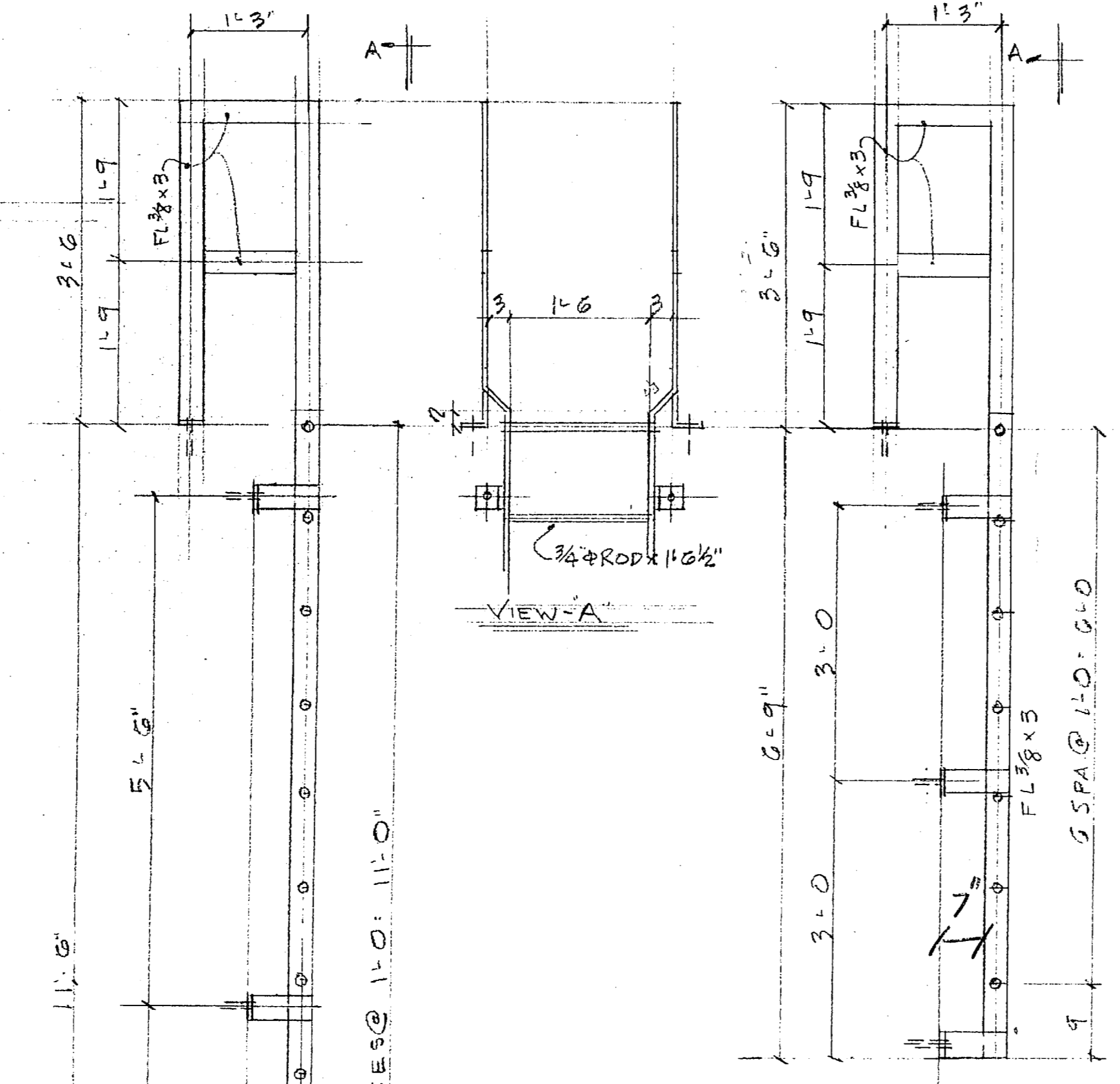
FOR ATTORNEY ONLY



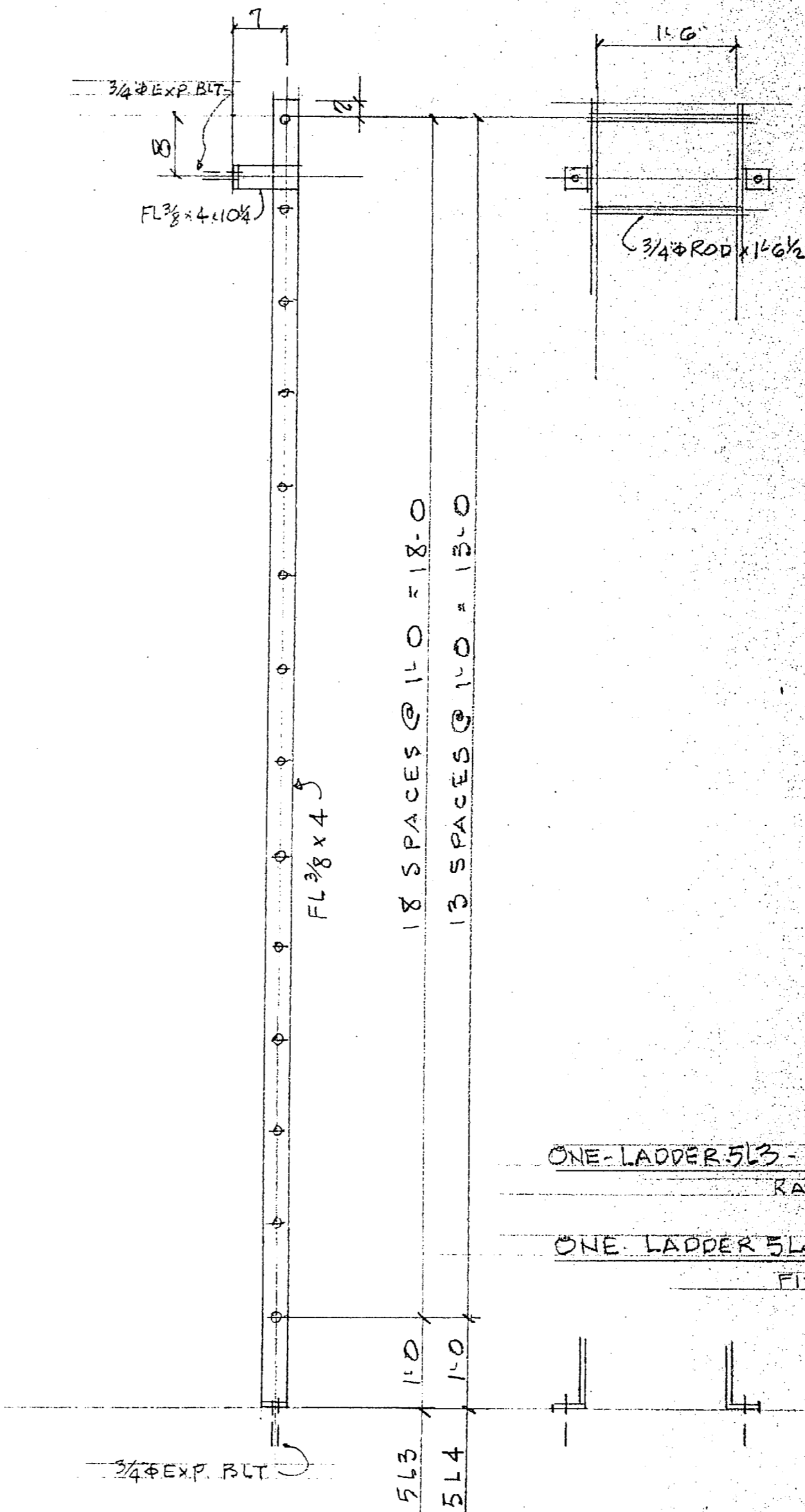
24 JOIST BRG. 1/4" MH. 5BPI
 ITEM NO 40 JOIST BRG. P.S.



MFL ROOF DECK
 22GA 1/2 GALV.
 PROVIDE FASTENER
 & CERT



ONE LADDER MH-5L2
 PART ITEM #32 FIN WATER RES.
 H.D. GALV.



ONE LADDER 5L3 - ITEM NO 31
 RAW WATER RES.

ONE LADDER 5L4 - ITEM NO 32
 FIN WATER RES.

ONE LADDER MH-5L1
 PART ITEM #31 - RAW WATER RES.
 H.D. GALV.

PROVIDE MISC METAL
 CERT.

BILL OF MATERIALS

ITEM NO.	MARK	NO. PCS	SHAPE	LENGTH	REMARKS
40	5BPI	24	1/4" x 3/8" x 6"	6	NO PAINT
		48	1/2" ROD	8"	
36	5A1	4	L 1 1/2 x 1 1/2 x 3/8	10'-6"	PAINT
		24	1/2" THUNDERSTUDS	2'-4"	
39	5F1	5	ROOF FRAMES		PAINT
		10	6" x 4" x 1/4"	4'-2"	
		10	6" x 4" x 1/4"	3'-9"	
37	METAL ROOF DECK		22GA 1/2" GALV.		
		6	PS 36" x	15'-1"	
		6	PS 36" x	19'-1"	
		6	PS 36" x	17'-6"	
31	5L1	ONE	LADDER		H.D. GALV.
		2	FL 3/8 x 3	3'-8 1/2"	
		2		15'-1 1/2"	
		4		1'-0"	
		6	Ø	10 1/4"	
		12	3/4" ROD	1'-6 1/2"	
		8	3/4" THUNDERSTUDS	4 1/4"	
32	5L2	ONE	LADDER		H.D. GALV.
		2	FL 3/8 x 3	3'-8 1/2"	
		2		10'-4 1/2"	
		4		1'-0"	
		6	Ø	10 1/4"	
		7	3/4" ROD	1'-6 1/2"	
		8	3/4" THUNDERSTUDS	4 1/4"	
31	5L3	ONE	LADDER		H.D. GALV.
		2	FL 3/8 x 4	19'-5"	
		2	FL 3/8 x 4	10 1/4"	
		19	3/4" ROD	1'-6 1/2"	
		4	3/4" THUNDERSTUDS	4 1/4"	
32	5L4	ONE	LADDER		H.D. GALV.
		2	FL 3/8 x 4	14'-5"	
		2	FL 3/8 x 4	10 1/4"	
		14	3/4" ROD	1'-6 1/2"	
		4	3/4" THUNDERSTUDS	4 1/4"	

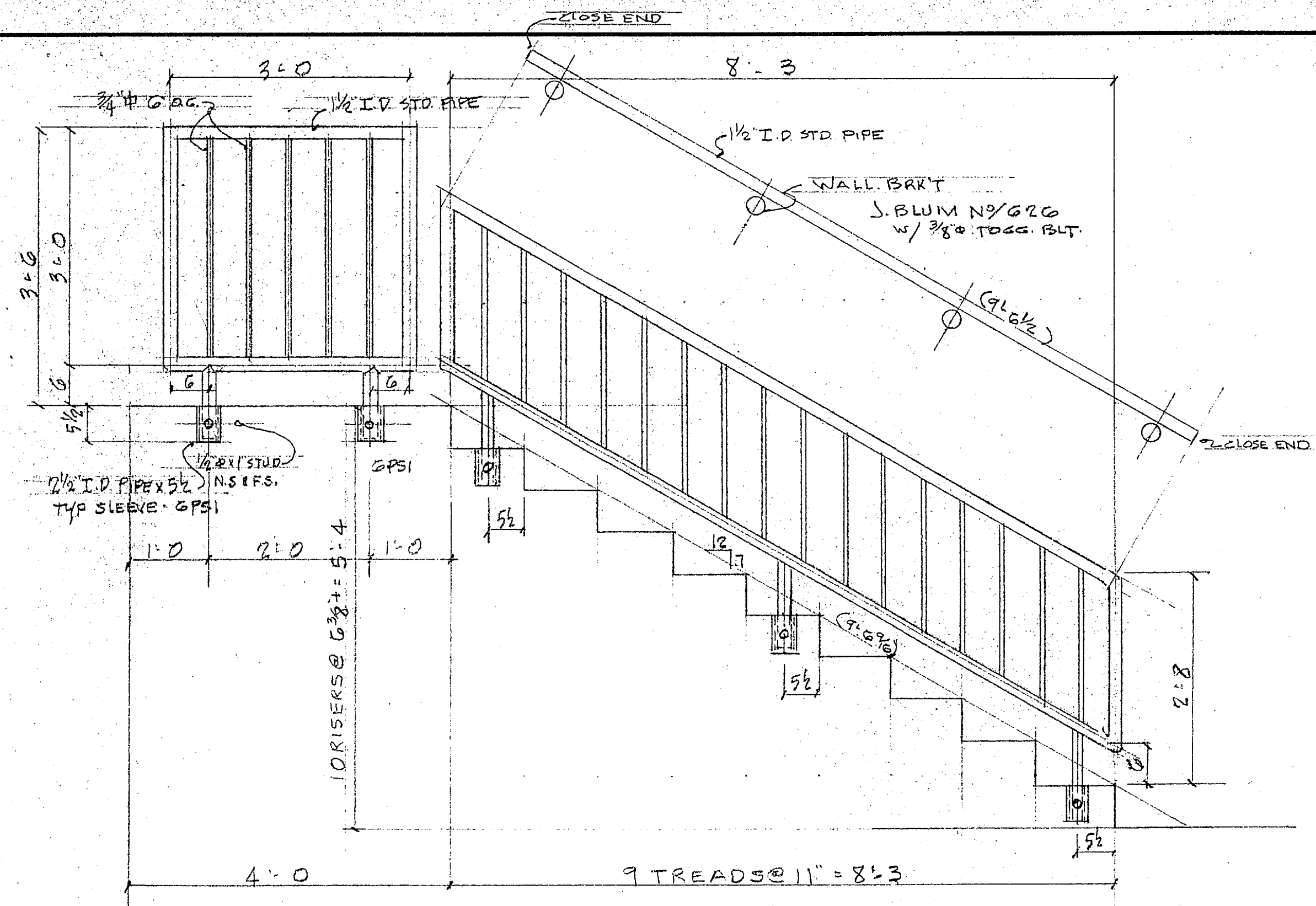
FOR APPROVAL ONLY

PRINTS 1/8" = 1" A	DEBAM-HUGHES CORPORATION ARCHITECTURAL METALS - P. O. BOX 9677 GREENSBORO, N. C.	PROJECT HOLCOMB BLVD WATER TREATMENT PLANT CAMP LEJEUNE, N. C. CONTRACTOR HARRY PEPPER & ASSOC. INC. JACKSONVILLE, FLORIDA.
ERECTOR PAINT T-T-P 645A	GEN. CONTR. SPECIAL INSTRUCTIONS	ARCH/ENG. HENRY VON DESEN MADE BY CUSSON DATE MAR 85 JOB NO. SHEET NO. DETAILS OF ITEMS 31-33-38-39-41-42 34 17 5

NO.	DATE	DESCRIPTION

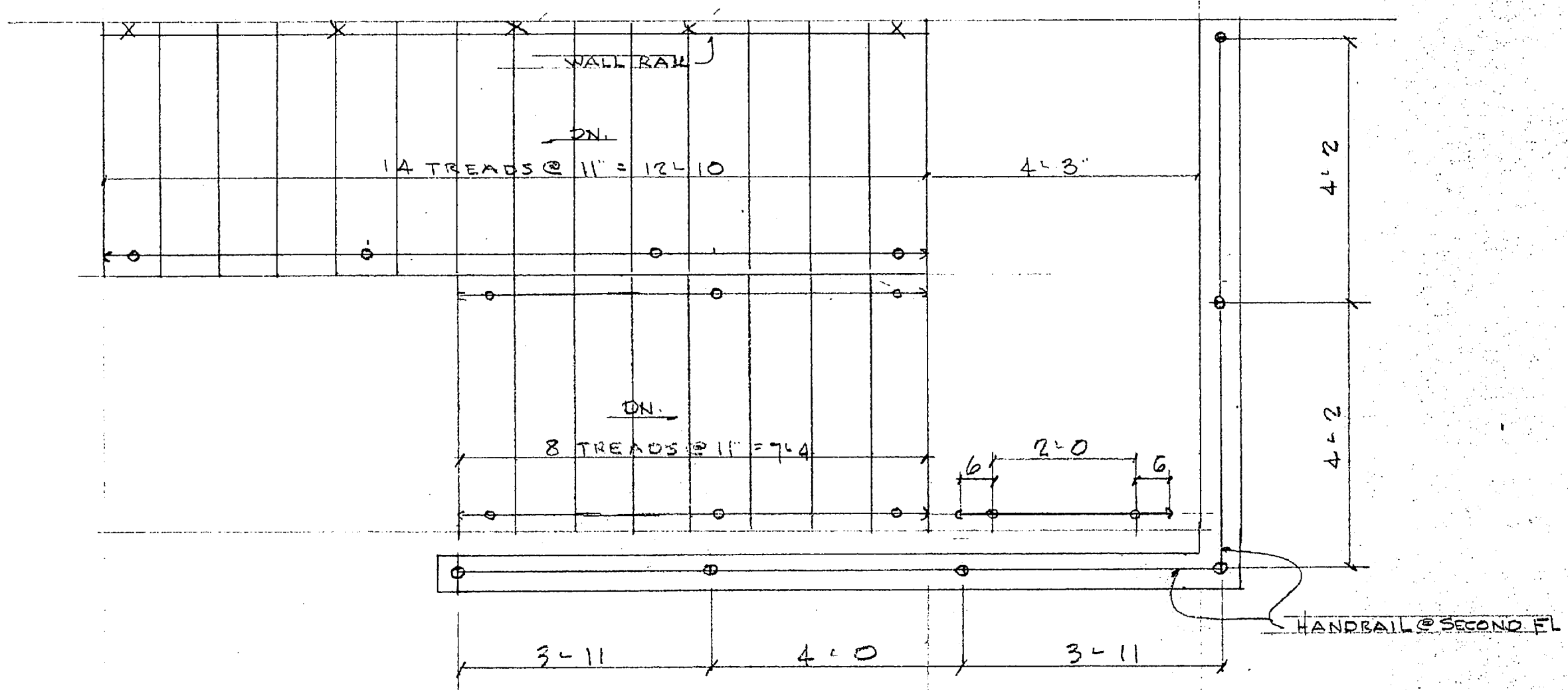
DORRIN PHOTO - GREENSBORO

FOR APPROVAL

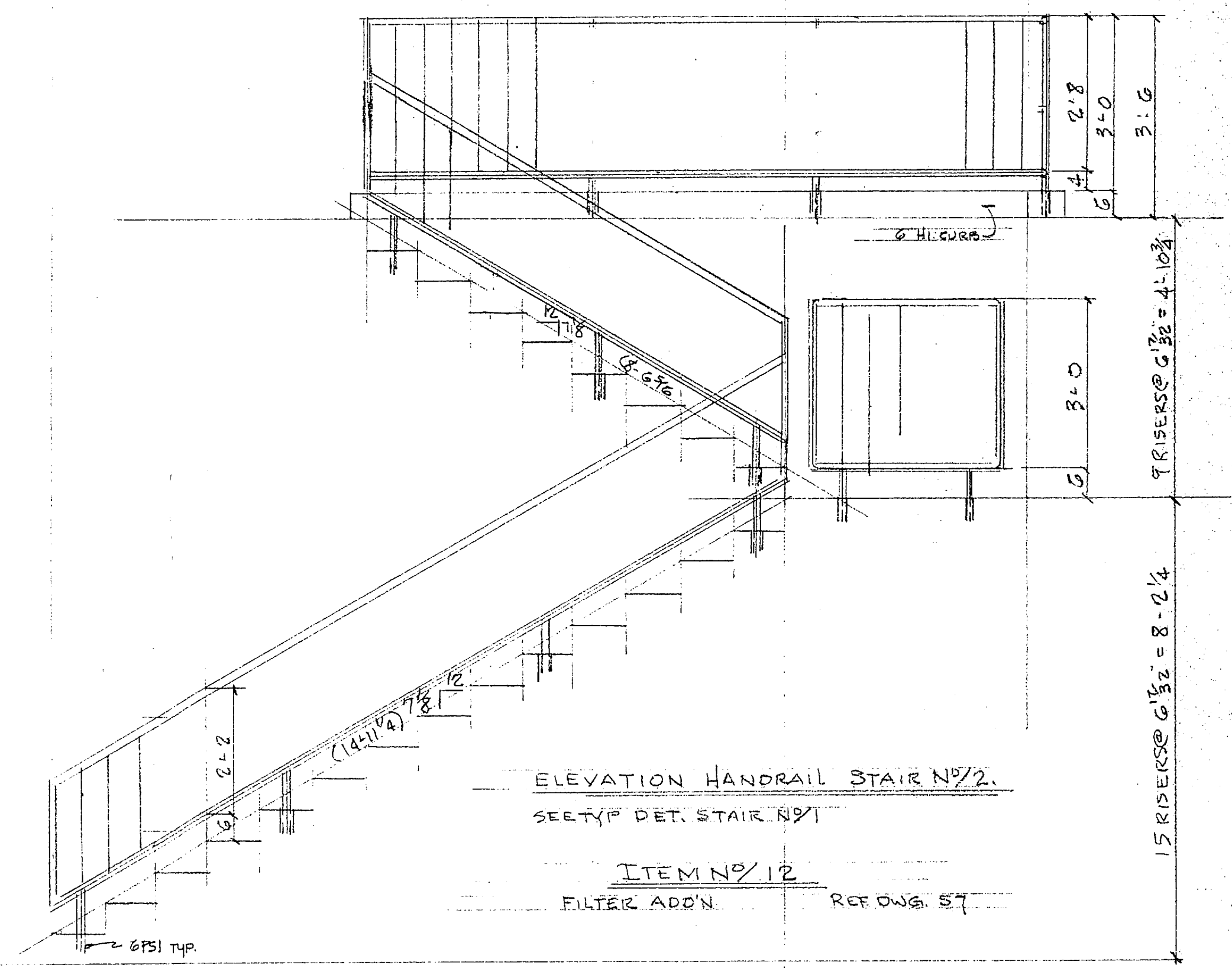


ONE STAIR RAIL & WALL RAIL. (STAIR N°1)

ITEM N°6
TREATMENT ADD. REF. DWG. SA1851

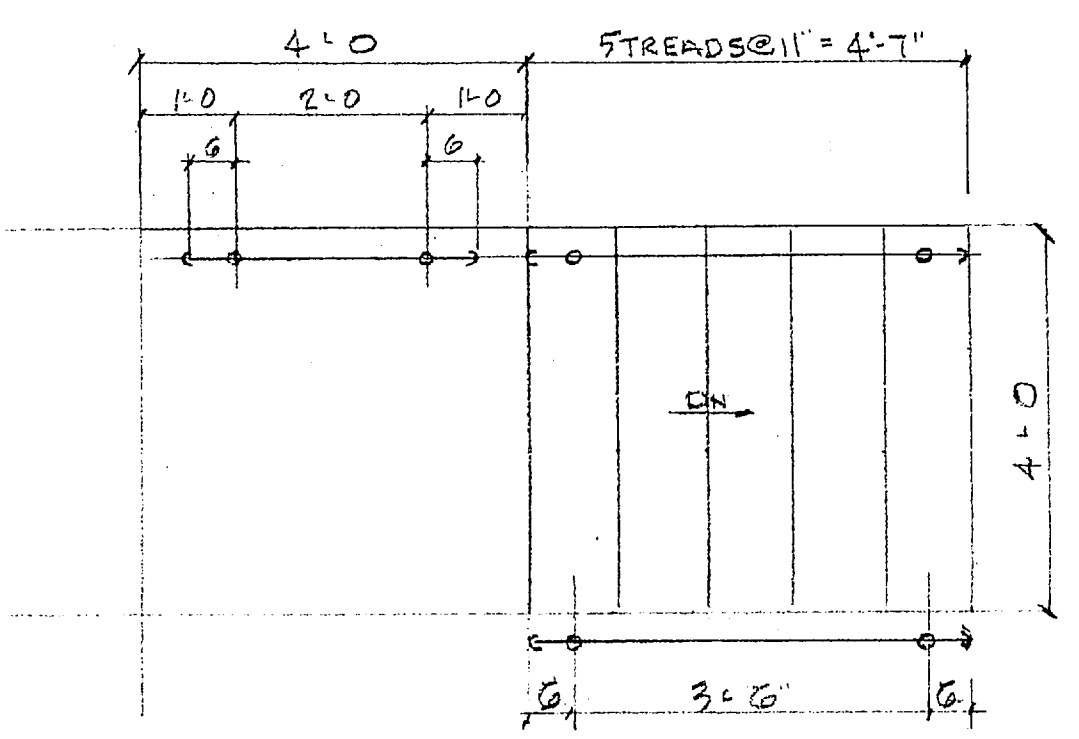


PLAN HANDRAIL STAIR N°2

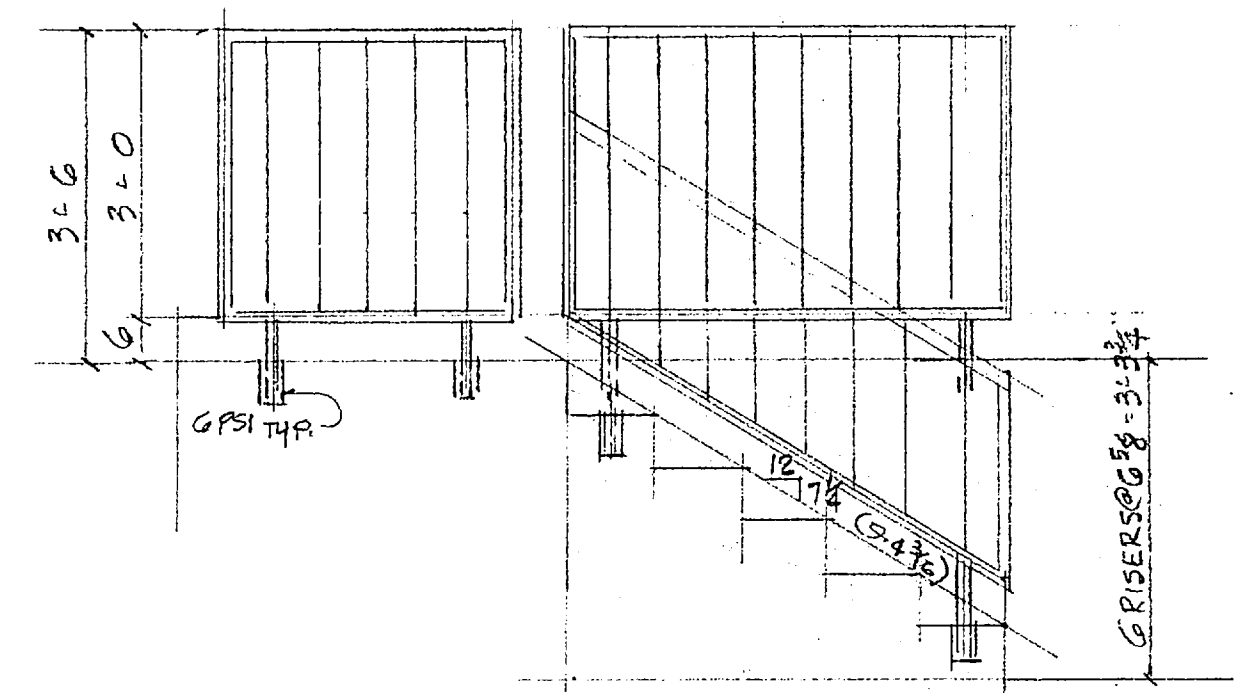


ELEVATION HANDRAIL STAIR N°2

SEE TYP. DET. STAIR N°1
ITEM N°12
FILTER ADD'N. REF. DWG. ST



PLAN HANDRAIL STAIR N°5



ELEVATION HANDRAIL STAIR N°5

SEE TYP. DET. STAIR N°1
ITEM N°12
FILTER ADD'N. REF. DWG. S-8

BILL OF MATERIALS

ITEM NO.	MARK	NO. PCS	SHAPE	LENGTH	REMARKS
6	HANDRAIL				
			1/2" I.D. STD PIPE	50 L.F.	
		6	3/4" #3	2'-9"	
		16	3/4" #3	1'-11"	
		5	1/2" I.D. STD PIPE	5'-2"	
		10	STUDS 1/2" #3	1"	
		4	WALL BRKTS J. BLUM N°626		
		4	3/8" TOGG. BLTS	5"	
		8	N°10 FHMS	3/4"	
12	HANDRAIL				
			1/2" I.D. STD PIPE	230 L.F.	
			3/4" #3	250 L.F.	
		26	1/2" I.D. STD PIPE	5'-2"	
		52	STUDS 1/2" #3	1"	
		5	WALL BRKTS J. BLUM N°626		
		5	3/8" TOGG. BLTS	5"	
		10	N°10 FHMS	3/4"	

NOTE: VENT HOLES REQ'D. IN PIPE RAILS FOR H.D. GALV.

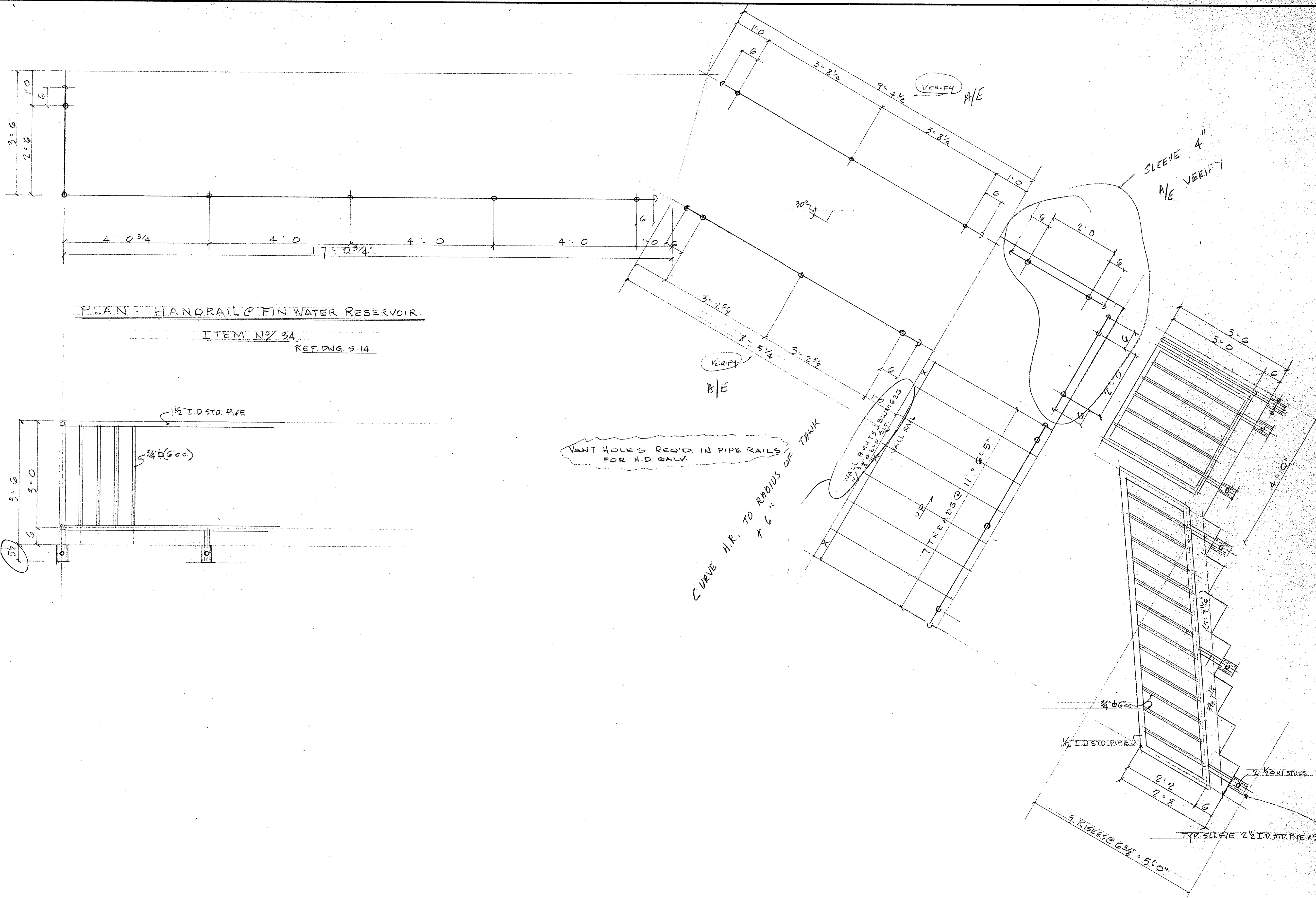
FOR APPROVAL ONLY

PRINTS 3/16" 11 A	DEBAM-HUGHES CORPORATION ARCHITECTURAL METALS · P. O. BOX 9677 GREENSBORO, N. C.	PROJECT	HOLCOMBE BLVD WATER TREATMENT PLANT CAMP LEJEUNE, N. C.		
		CONTRACTOR	HARRY PEPPER & ASSOC. INC. JACKSONVILLE, FLORIDA.		
	ERECTOR	GEN CONTR.	ARCH/ENG.	HENRY VON DESEN	
	PAINT	HOT. DIP. GALVANIZE	MADE BY	CUSSON	DATE
	SPECIAL INSTRUCTIONS		DATE	MAR-83	JOB NO.
			DETAILS OF	ITEMS	3417
					6

NO.	DATE	DESCRIPTION
		REVISIONS

FOR INTERNAL USE

4 1/2" (NOTE ON A-1 BY SLEEVE DETAIL)



BILL OF MATERIALS

ITEM NO.	MARK	NO. PCS.	SHAPE	LENGTH	REMARKS
34	HANDRAIL				
			1/2" I.D. STD. PIPE	158 L.F.	
			3/4" Ø	230 L.F.	
		19	2 1/2" I.D. STD. PIPE	5 1/2'	
		38	1/2" Ø STD.	1'	
		3	J. BLUM NO. 626		
		3	3/8" Ø THUNDERSTUD	2 3/4'	
		6	NO. 10 F.H.M.S.	3 1/4'	

PLAN - HANDRAIL @ FIN WATER RESERVOIR.

ITEM NO. 34
REF. DWG. S-14

VENT HOLES REQ'D IN PIPE RAILS FOR H.D. GALV.

CURVE H.R. TO RADIUS OF TANK
+ 6"

GEN. CONTRACTOR: VERIFY ALL DIMENSIONS

FOR APPROVAL ONLY

SOURCE: PHOTO - GREENSBORO

NO.	DATE	DESCRIPTION
		REVISIONS

PRINTS 3/8" 11 A	DEBAM-HUGHES CORPORATION ARCHITECTURAL METALS · P. O. BOX 9677 GREENSBORO, N. C.	PROJECT HOLCOMB BLVD WATER TREATMENT PLANT - CAMP LEJEUNE, N.C. CONTRACTOR HARRY PEPPER & ASSOC. INC. JACKSONVILLE, FLORIDA.
	ERECTION PAINT HOT DIP GALV. SPECIAL INSTRUCTIONS	ARCH/ENG. HENRY VON DESEN. MADE BY CUSSON DATE MAR 85 DETAILS OF ITEM 36

DEBNAM-HUGHES CORPORATION

PROJ: HOLCOMB BLVD. WATER TREATMENT PLANT

3417

Architectural Metals / P. O. Box 9677
Greensboro, N. C. / 27408 / Phone: 919-375-4480

M.C.B. - CAMP LEJEUNE, NC

B-3

CONTR: HARRY PEPPER & ASSOCIATES, INC.

ABRASIVE STEP NOSING REQUIREMENTS

ITEM # 7

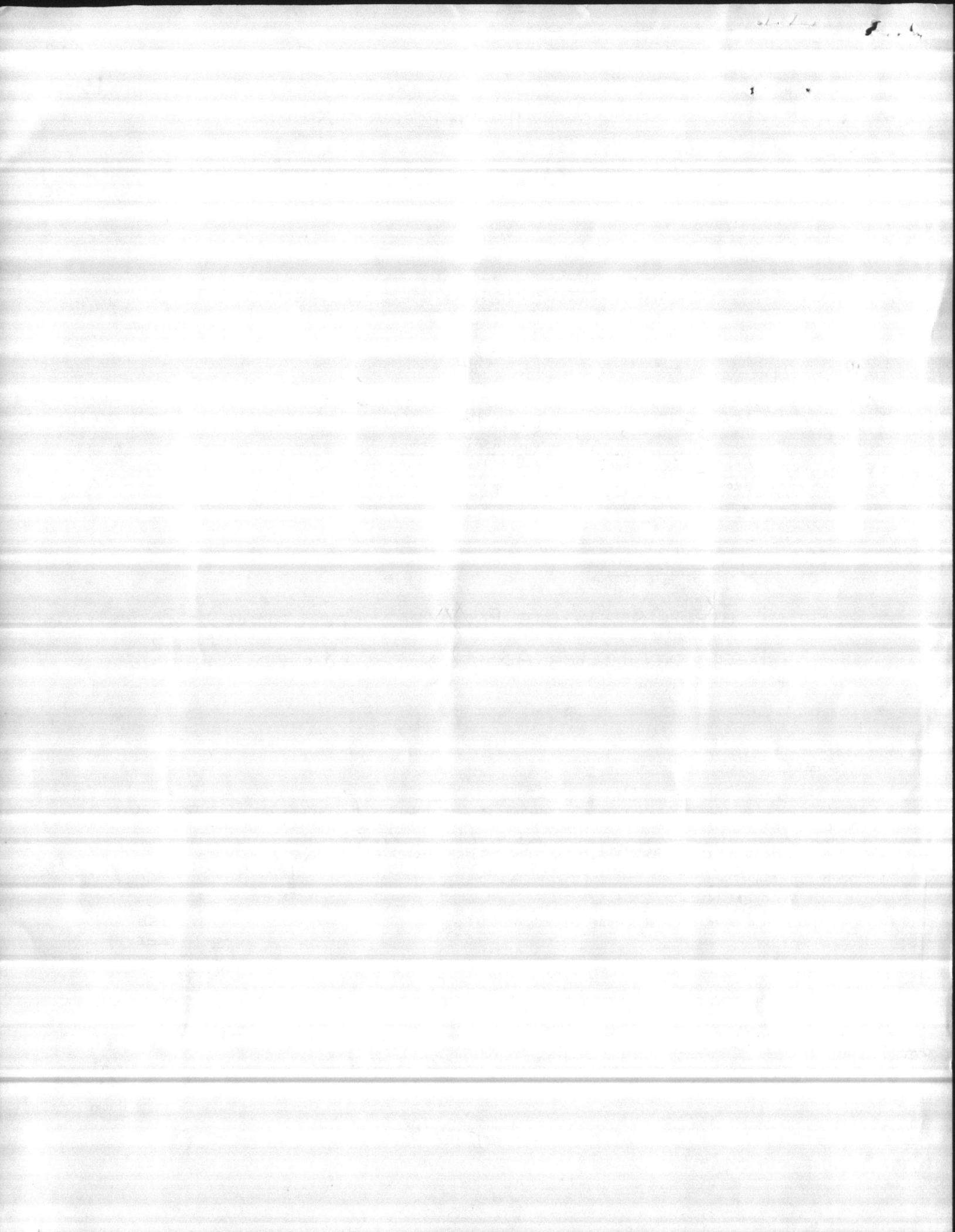
TEN WHITE FOUNDRY TYPE (STYLE) - 2 REQ'D
AT TREATMENT ADDITION PER ATTACHED SCHEDULE

ITEM # 13

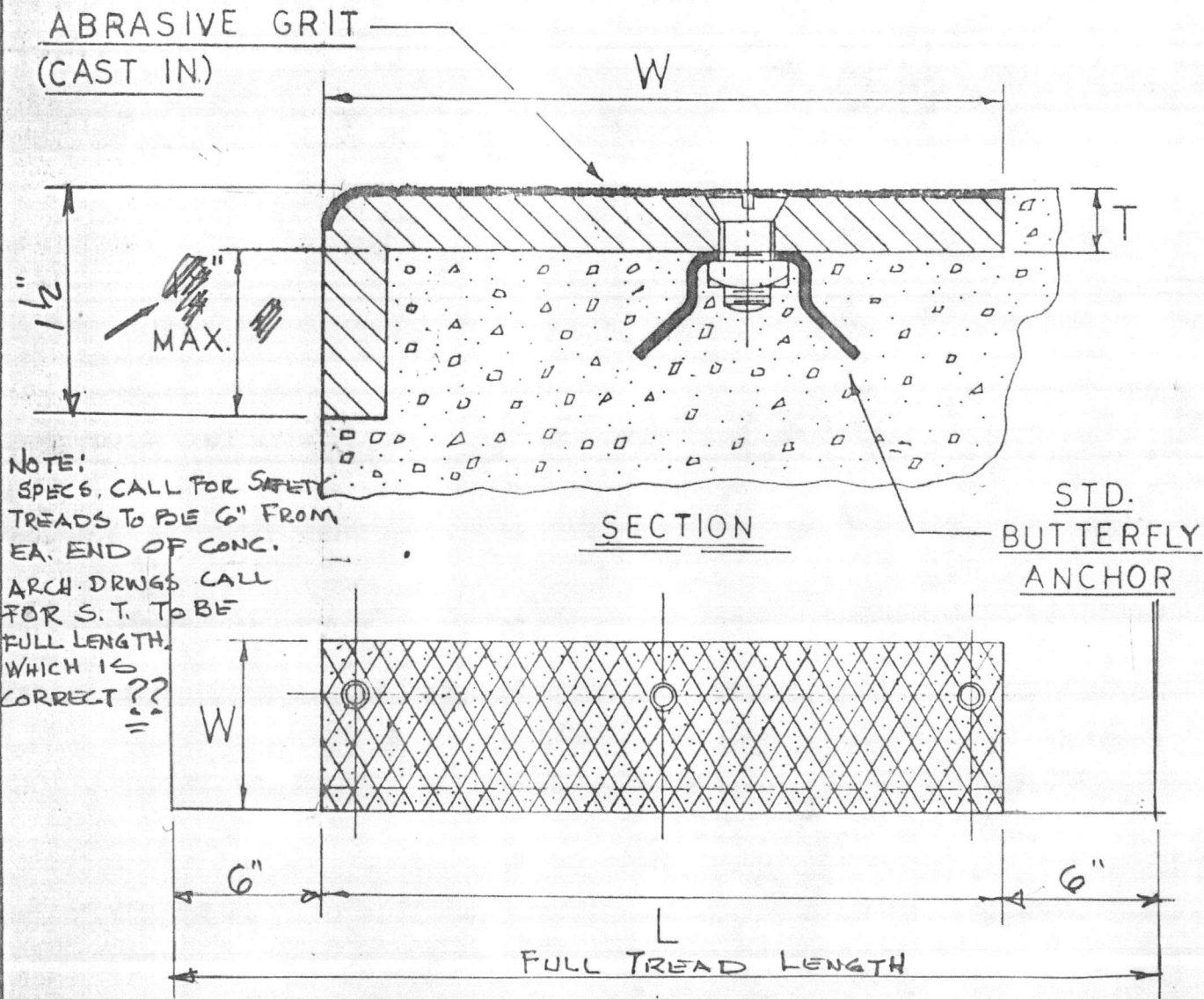
FORTY-ONE WHITE FOUNDRY TYPE (STYLE) - 2
REQ'D AT FILTER ADDITION PER ATTACHED SCHEDULE

ITEM # 33

NINE WHITE FOUNDRY TYPE (STYLE) - 2 REQ'D
AT FINISH WATER RESERVOIR PER ATTACHED
SCHEDULE



STYLE-2



NOTE:
 SPECS. CALL FOR SAFETY
 TREADS TO BE 6" FROM
 EA. END OF CONC.
 ARCH. DRWS CALL
 FOR S.T. TO BE
 FULL LENGTH,
 WHICH IS
 CORRECT ??

SCHEDULE

ITEM NO.	REQ'D.	W	L	T	METAL	SURFACE	BLDG.
7	10	4"	2'-6"	3/8"	Aluminum	Abras. Hatched	Treatment Addition
33	9	4"	3'-0"	"	"	"	Finish Water Reservoir
13	10	4"	2'-0"	"	"	"	Filter Add'n
13	31	4"	3'-0"	"	"	"	Filter Add'n

JOB— 3317 Holcomb Blvd. Water Treatment Plant

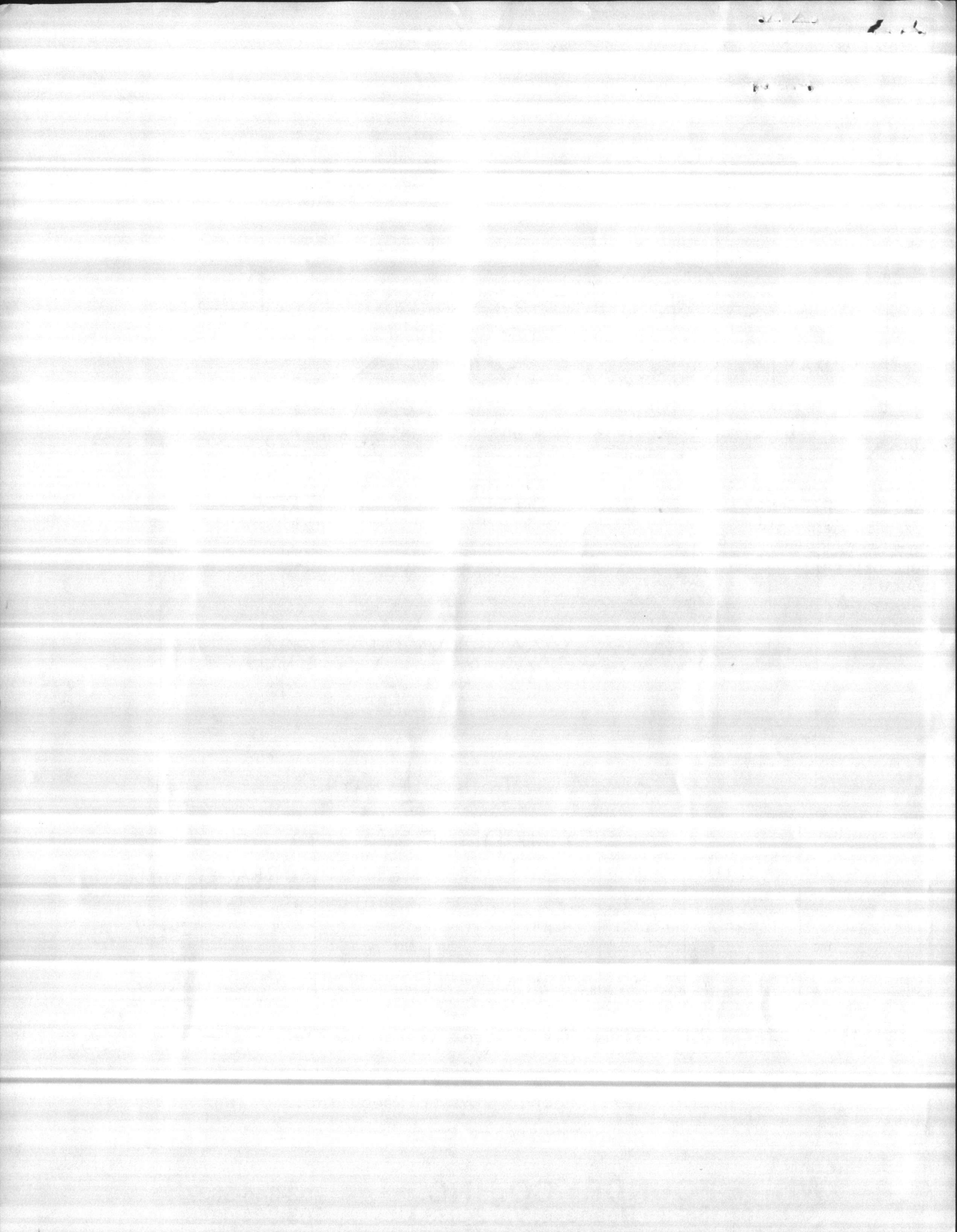
M.C.B. - Camp LeJeune, NC

CONTR: Harry Pepper & Associates, Inc.

Debnam-Hughes Corp.

WHITE FOUNDRY CO., INC.
 P. O. Box 13322 • Roanoke, Va. 24033 •

703-344-5637
 703-344-4248



DEBNAM-HUGHES CORPORATION

PROJ: HOLCOMB BLVD. WATER TREATMENT PLANT

3417

Architectural Metals / P. O. Box 9677

M.C.B. - CAMP LE JEUNE, NC

B-4

Greensboro, N. C. / 27408 / Phone: 919-375-4480

CONTR: HARRY PEPPER & ASSOCIATES, INC.

EXPANSION JOINT COVER REQUIREMENTS

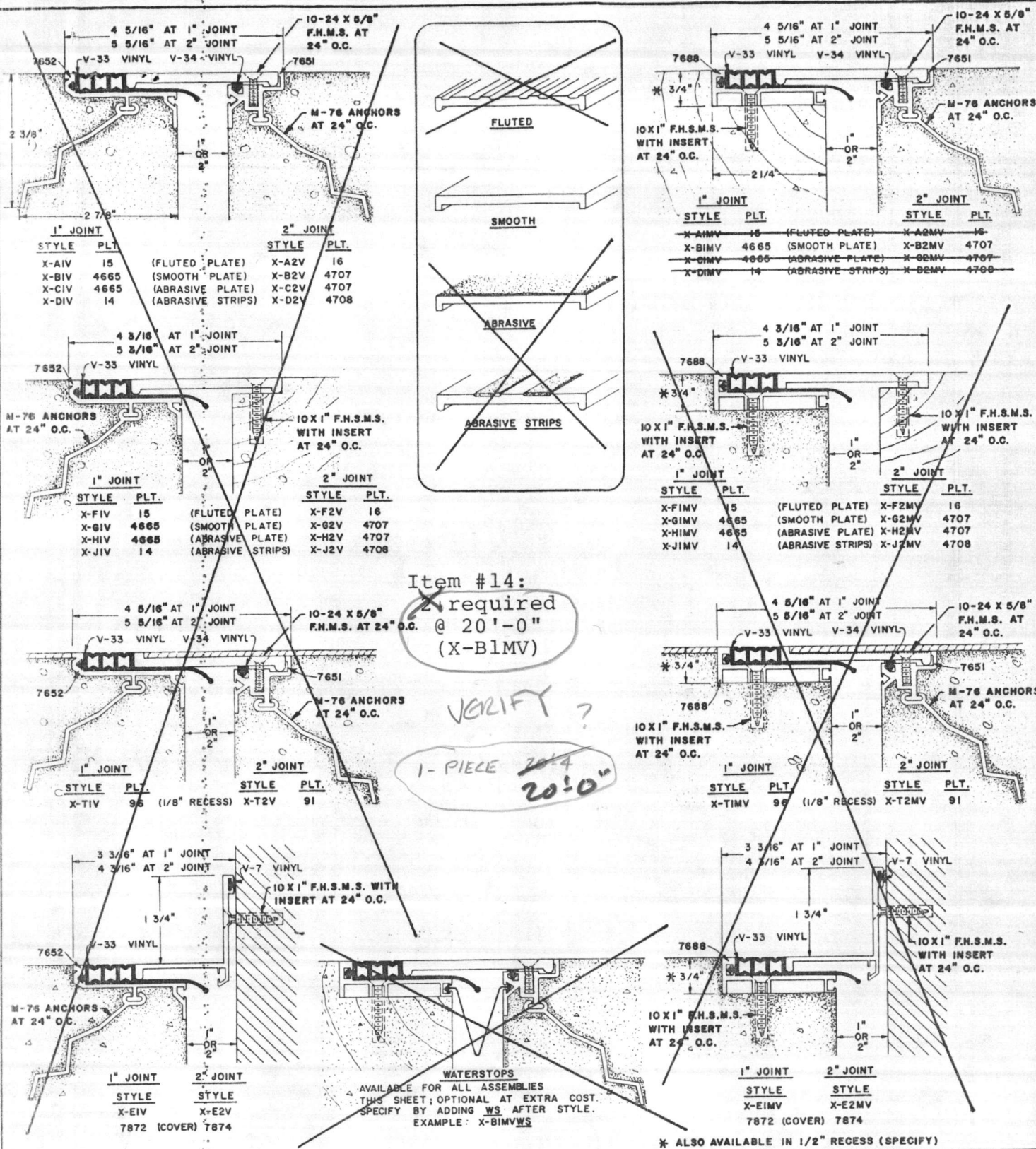
ITEM # 14

TWO MM SYSTEMS CORPORATION TYPE X-BIMV
REQ'D AT FILTER ADDITION (~~2~~ PCS AT 20'-0"
WITH ANCHORS 24" O.C.) 1

FOR APPROVAL ONLY

W. Schork 3-25-85

FOR APPROVAL ONLY



Item #14:
 2 required
 @ 20'-0"
 (X-B1MV)
 VERIFY?
 1-PIECE 20'-0"

ALUMINUM FLOOR EXPANSION JOINT COVERS — 1" & 2" JOINTS

SCALE: 3/8"=1"

GENERAL SPECIFICATIONS

ALL MATERIAL IS EXTRUDED ALUMINUM OF 6063-T5 ALLOY, EXCEPT AS NOTED. ALL ALUMINUM FURNISHED MILL FINISH. VINYL FILLER STRIPS AND SEALS ARE ABRASIVE RESISTANT POLYVINYLCHLORIDE AND ARE SECURED IN THE ALUMINUM SECTIONS WITHOUT ADHESIVES. COMPONENTS IN CONTACT WITH FRESH CONCRETE ARE PROTECTED WITH A FACTORY APPLIED CHROMATE CONVERSION COATING FOR CORROSION RESISTANCE.

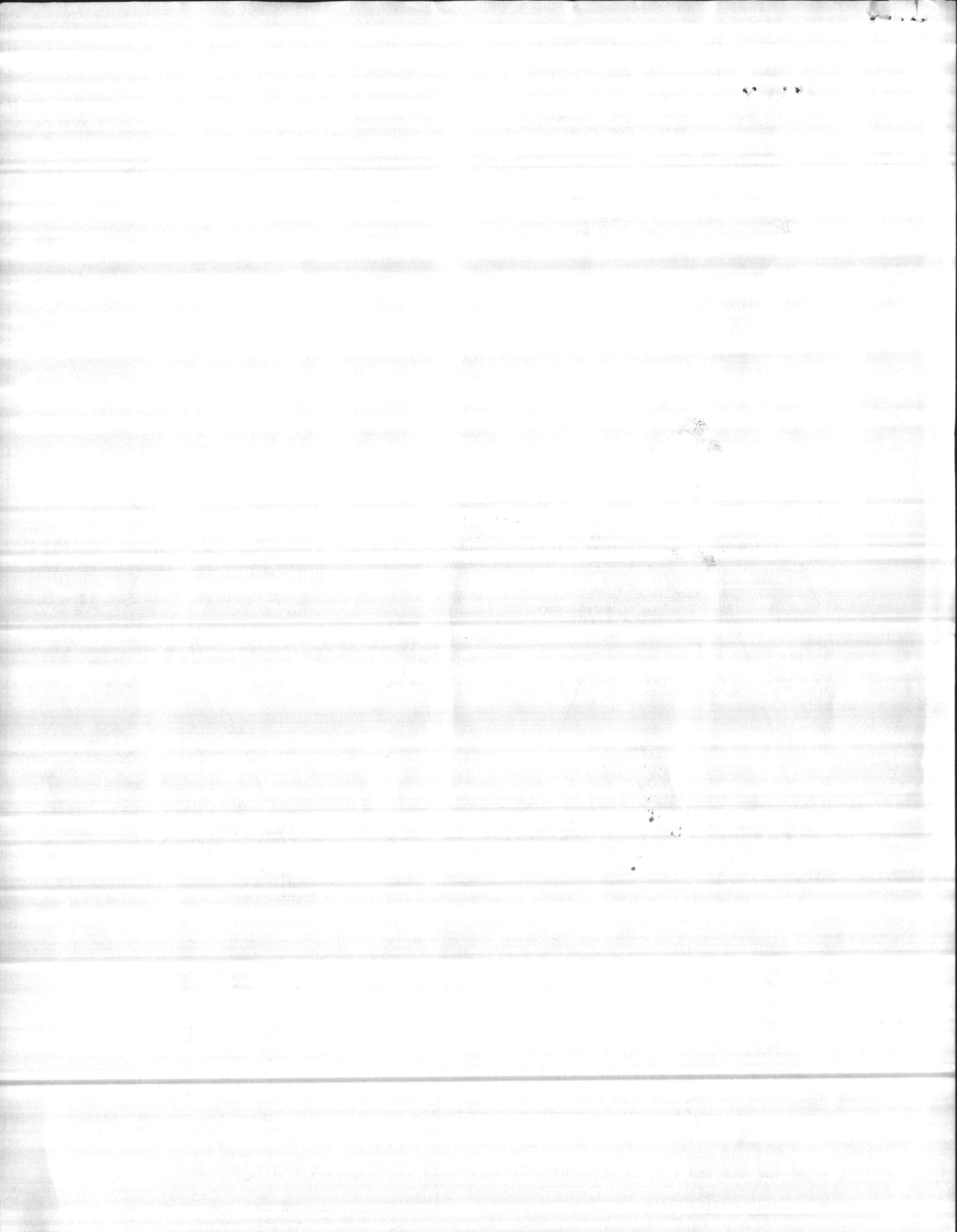
PROJECT	Holcomb Blvd. Water Treatment Plant	
	M.C.B. - Camp LeJeune, NC	
ARCHITECT:		
CONTRACTOR:	Harry Pepper & Associates	



MM SYSTEMS CORPORATION

4520 ELMDALE DRIVE, TUCKER, GEORGIA 30084 / PHONE (404) 938-7570

CUSTOMER	Debnam-Hughes Corp.	AGENT		JOB NO.	3417	SHEET	1 OF 1
REV.	1/82					DETAIL TEMPLATE 101	



Hunt

CONTRACTOR'S SUBMITTAL TRANSMITTAL

LANTDIV NORFOLK 4-4355/3 (Rev. 11-80)

CONTRACT NO 81-C-1644	TRANSMITTAL NO 142	DATE 1-8-86
--------------------------	-----------------------	----------------

FROM CONTRACTOR
Harry Pepper & Associates, Inc.

PROJECT TITLE AND LOCATION
Holcomb Blvd Water Treatment Plant

TO
Henry Von Oesen & Associates, Inc.

MCB, Cp Lejeune, North Carolina

CONTRACTOR USE ONLY

REVIEWER USE ONLY

*List only one specification division per form.

**ACTION CODES

List only one of the following categories on each transmittal form, and indicate which is being submitted

- A-Approved
- D-Disapproved
- AN-Approved as noted
- RA-Receipt acknowledged.
- C-Comments
- R-Resubmit

Contractor Approved

OICC Approval

Deviation/Substitution For OICC Approval

ITEM NO.	PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO. *	ITEM IDENTIFICATION (Type, size, model no., Mfg. name, dwg. or brochure number)	NO. OF COPIES	ACTION CODES **	REVIEWER'S INITIALS CODE AND DATE
05500		METAL FABRICATIONS			
1	1.2.1 a&b	Certification on Carbon Steel, Steel Pipe and Tubing	4	RA	ROB 1/24/86
2	1.2.1 c	Certification on Steel Floor Grating	4	RA	ROB 1/24/86

CONTRACTOR'S COMMENTS

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC

ONE COPY TO ROICC

CONTRACTOR REPRESENTATIVE (Signature)

Phil Reese

DATE RECEIVED BY REVIEWER

FROM (Reviewer)

TO

1/12/86

Henry von Oesen & Assoc., Inc.

Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contract requirements unless the contractor calls attention to and supports the deviation.

Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE ONLY Section and in comments below on ONE COPY of the transmittal form.

REVIEWER'S COMMENTS

Contractor's approval appears to be appropriate.

HENRY VON OESEN AND ASSOCIATES, INC.

COPIES TO
ROICC (2)
LANTDIV (1)
A-E (1)

DATE

1/24/86

SIGNATURE

PHYSICIAN
ACTION
CODE

Handwritten signature

Handwritten signature

28 JAN 1986 13 20

Item # 1

J. M. Tull Metals Co.
A Division of J. M. Tull Industries, Inc.

P. O. Box 4725
Norcross, Georgia 30091

Certification of Materials

Debnam-Hughes Corp.
Architectural Metals
2740 Church St.
PO Box 9677

Date November 21 19 85
Date Shipped _____
Your Order No. 8811
Tull Invoice No. 495847

Greensboro, NC
MATERIAL

Item No. (*) 1/4 x 60 x 240 Hot Rolled Steel Plate A-36 CE
Cut Size- 60 x 120

CERTIFICATION

This will certify that, to the best of my knowledge and belief, the above described material was produced in accordance with the following specifications. _____

ASTM-A36 Hot Rolled Steel Plate

Signed and sworn to before me this
_____ day of _____ 19 _____

Notary Public

J. M. Tull Metals Company
Signed [Signature]
Tull Warehouse Location (city & state):
Greensboro, NC

RECEIVED
NOV 25 1985

(*) Part Our line item 11A - Plate curbs @ Water Softener

DEBNAM-HUGHES CORP.
Form 632 (Rev. 10/83)

It is hereby certified that the (material) (equipment) shown and marked in this submittal, shop drawings, catalog cut (s), etc., and approved/proposed to be incorporated into Contract Number N62470-81-C-1644 is in compliance with the Contract Drawings and Specifications and can be installed in the allocated space, and is:

- Approved for use.
- Submitted for Government approval.
- Approved for use subject to Government approval of specific deviation.

Authorized Reviewer _____ DATE _____
Signature CQC Rep. Phil Reese DATE 1-8-86



Warehouse Hiway 421 North Phone 763-6237
 P. O. BOX 1769 WILMINGTON, N. C. 28402
 Fabricating Division Shipyard Phone 763-3311
 GREENSBORO, N. C. TELEPHONE 674-7991

ANALYSIS AND TESTS CERTIFICATE

S
O
L
D
T
O

Debnam-Hughes
 P. O. Box 9677
 Greensboro, N. C. 27408

CUSTOMER ORDER NO. 8384
ORDER NO. Inv. No. 32070
SPECIFICATIONS ASTM A 36
BEND TESTS Good

DATE
November 20, 1985

CHEMICAL ANALYSIS											MECHANICAL PROPERTIES		
DESCRIPTION	HEAT NO.	C	MN	P	S	SI	CU	NI	CR	VA	Yield Lbs./Sq. In.	Tensile Strength Lbs./Sq. In.	Elongation % In.
* W 12 x 26 40'	5-00094	14	63	28	27	15					46,900	68,300	29

RECEIVED
 NOV 22 1985

DEBNAM-HUGHES CORP.

THE ABOVE TESTS CONFORM TO THE REQUIREMENTS OF THE SPECIFICATIONS LISTED

SUBSCRIBED AND SWORN TO BEFORE ME
 THIS _____ DAY OF _____ 19 _____

* on line # 18:
 Monorail beam @
 Filter Addition

We hereby certify that the above data is a true copy of data furnished us by the producer or data resulting from tests performed by the producer or in approved laboratories. - QUEENSBORO STEEL CORP.

By W.T. Desautels
 AUTHORIZED AGENT





nucor steel

A Division of NUCOR Corporation

P. O. BOX 525 - DARLINGTON, SOUTH CAROLINA 29532
TELEPHONE 803/393-5841

RECEIVED

JUL 3 1985

SHIP DEBNAM HUGHES
TO P. O. BOX 9677
GREENSBORO, N. C.

27408

CUSTOMER 8621
ORDER NO.

DEBNAM-HUGHES CORP.

SPEC.	SIZE	HEAT NO.	TENSILE	YIELD 2% OFFSET	ELONG. %	C	Mn.	Si	S	P	V	NB	B
A36-81A	1/4X 3	252049	073900	54100	27 .00	.14	0.79	.24	.04	.02	.	.	.
A36-81A	2X 2X 1/4	454975	072500	52300	34 .00	.11	0.82	.25	.04	.03	.	.	.
A36-81A	3X 3X 1/4	555077	065300	47200	39 .00	.10	0.62	.31	.03	.01	.	.	.
A36-81A	1/4X 4	555528	067000	50400	31 .00	.10	0.85	.27	.04	.02	.	.	.
A36-81A	3X 3X 1/4	555827	074400	53600	42 .00	.14	0.69	.35	.03	.02	.	.	.

* our line item #11A: Plate cents @ Water Softeners

M. D. MILLETT
CHIEF CHEMIST

WE HEREBY CERTIFY THAT THE ABOVE FIGURES ARE CORRECT



EDGCOMB METALS

The Spirit Of Excellence



Debnam Hughes Corporation
Box 9677
Greensboro, N.C. 27408

Same
2740 Church Street

We certify that material shipped against your purchase order 8334
complies with the specification requested by you on your order and as indicated
on our shipping documents and invoice.

Specification: HOT ROLLED STRUCTURAL ANGLE

Description of material:

Item #1: 5 x 3-1/2 x 5/16 x 20 Ft.
Item #2: 3-1/2 x 3-1/2 x 1/2 x 40 Ft.
Item #3: _____
Item #4: _____

TYPICAL CHEMICAL RANGE

	<u>Carbon</u>	<u>Mang.</u>	<u>Phos.</u>	<u>Sul.</u>	<u>Nickel</u>	<u>Chromium</u>	<u>Moly.</u>
Item #1	.22/.28	.60/.90	.04 MAX	.05 MAX			
Item #2	.22/.28	.60/.90	.04 MAX	.05 MAX			
Item #3							
Item #4							

Thank you for this opportunity to serve you.

Item #1: Part on items # 25 & 35 -
Angle limits @ Raw Water Pump
Station & Finish Water Reservoir

Sincerely,

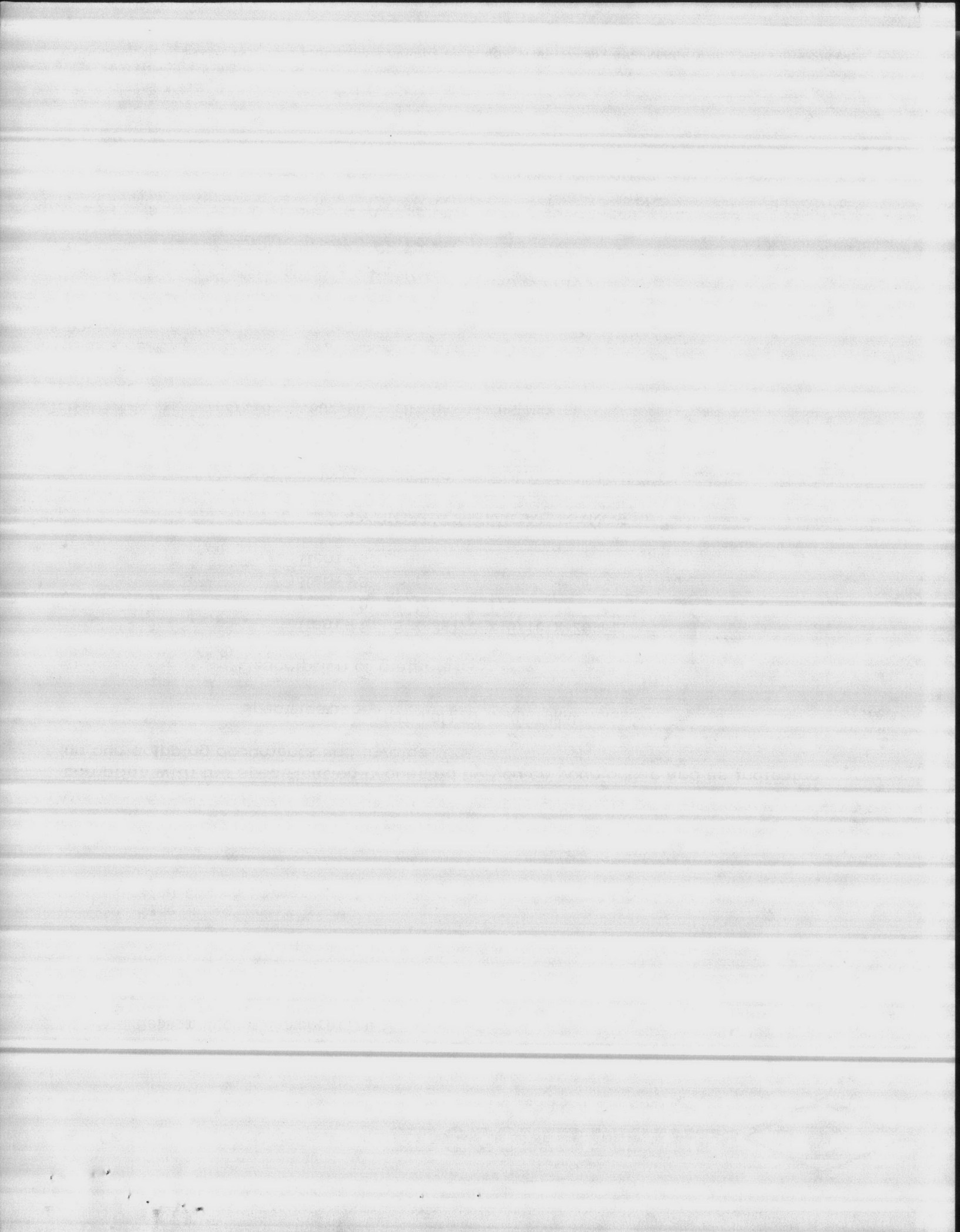
Item #22: Part on item # 22 - Hanger
assembly @ Filter Addition.



Product Manager

11/20/85

(Date)



EDGCOMB METALS

The Spirit Of Excellence



Debnam Hughes Corporation
Box 9677
Greensboro, N.C. 27408

RECEIVED
NOV 21 1985
DEBNAM-HUGHES CORP.

Same
2740 Church Street

We certify that material shipped against your purchase order 8334
complies with the specification requested by you on your order and as indicated
on our shipping documents and invoice.

Specification: _____

Description of material:

Item #1 1 x 1 x 1/4 x 20 Ft. HOT ROLLED BAR ANGLE
Item #2 3/8 Rd x 20 Ft. HOT ROLLED BAR
Item #3 _____
Item #4 _____

TYPICAL CHEMICAL RANGE

	<u>Carbon</u>	<u>Mang.</u>	<u>Phos.</u>	<u>Sul.</u>	<u>Nickel</u>	<u>Chromium</u>	<u>Moly.</u>
Item #1	.26/.31	.60/.90	.04 MAX	.058 MAX			
Item #2	.26/.31	.60/.90	.04 MAX	.058 MAX			
Item #3							
Item #4							

Thank you for this opportunity to serve you.

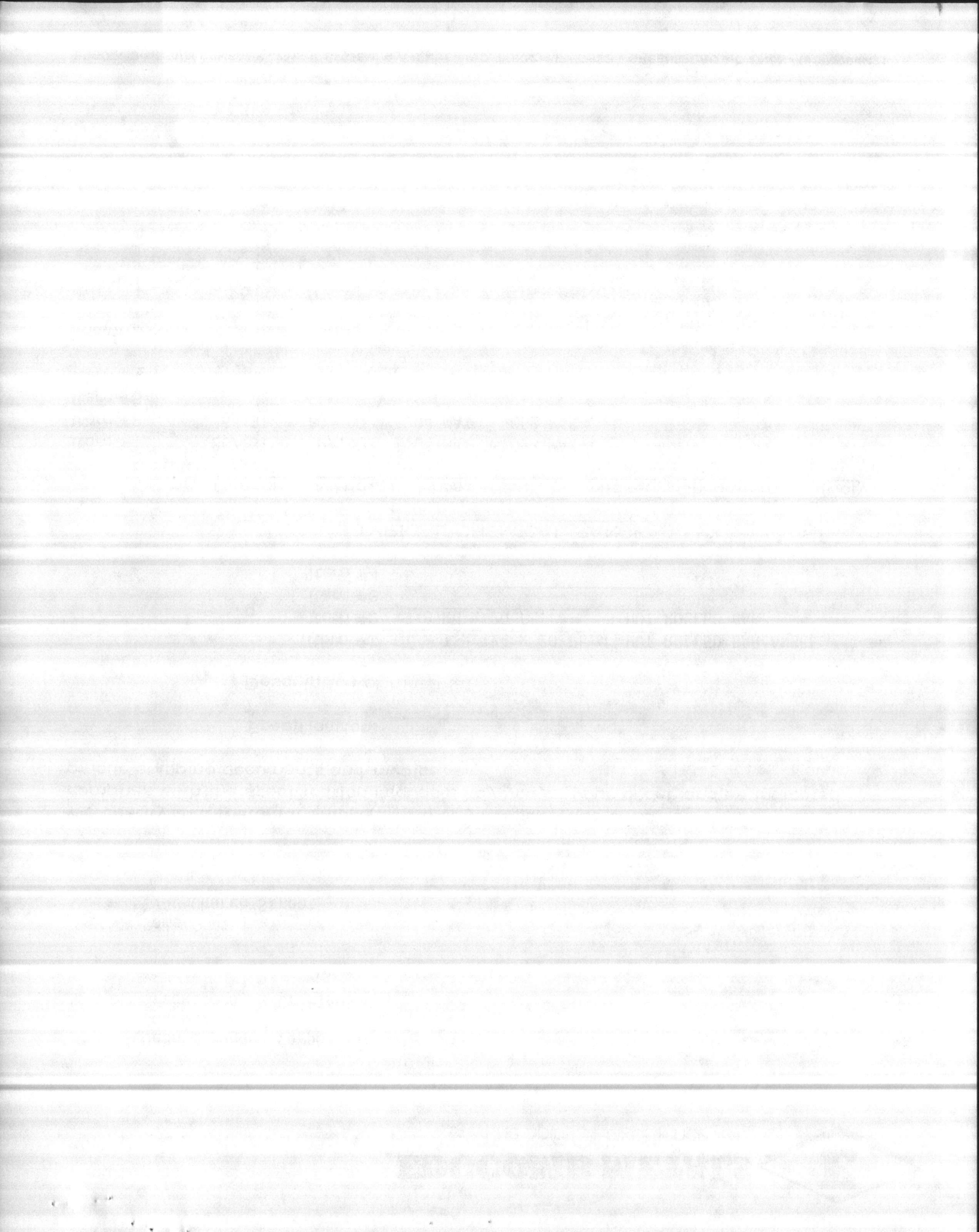
Item #1: Part of our line item #8
Framing for trench @
Treatment Addition

Item #2: same as above

Sincerely,

Ron Self
Product Manager

11/20/85
(Date)



EDGCOMB METALS

The Spirit Of Excellence



Debnam Hughes Corporation
Box 9677
Greensboro, N.C. 27408

RECEIVED

NOV 21 1985

DEBNAM-HUGHES CORP.

Same
2740 Church Street

We certify that material shipped against your purchase order 8547
complies with the specification requested by you on your order and as indicated
on our shipping documents and invoice.

Specification: HOT ROLLED BAR

Description of material:

Item #1: 1/8 x 3/4 x 20 Ft.
Item #2: 3/8 x 3 x 20 Ft.
Item #3: 3/8 x 4 x 20 Ft.
Item #4: _____

TYPICAL CHEMICAL RANGE

	<u>Carbon</u>	<u>Mang.</u>	<u>Phos.</u>	<u>Sul.</u>	<u>Nickel</u>	<u>Chromium</u>	<u>Moly.</u>
Item #1	.26/.31	.60/.90	.04 MAX	.058 MAX			
Item #2	.26/.31	.60/.90	.04 MAX	.058 MAX			
Item #3	.26/.31	.60/.90	.04 MAX	.058 MAX			
Item #4							

Thank you for this opportunity to serve you.

Item #1: ~~Part over item #~~ does not
apply to this job (see job #3417)

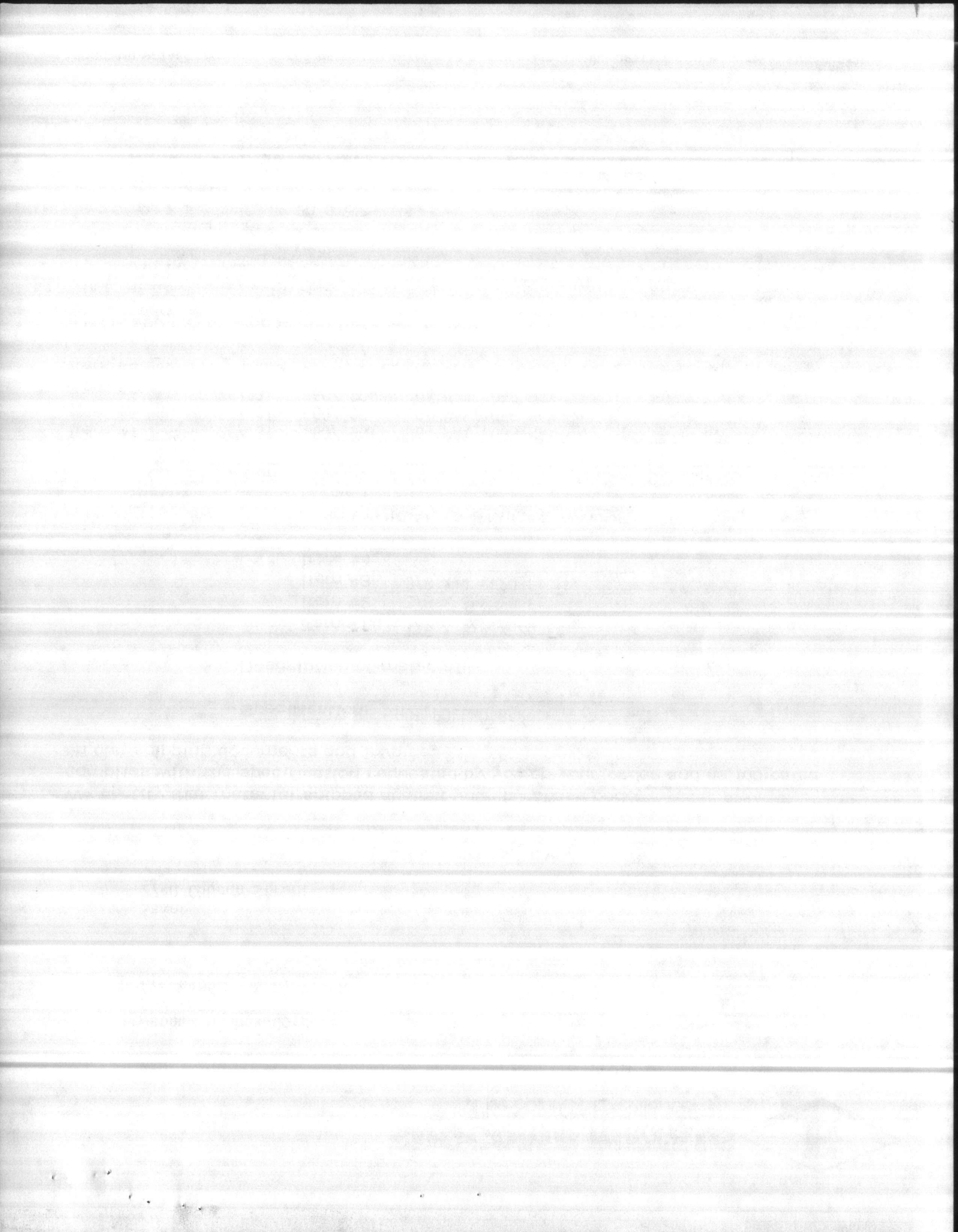
Sincerely,

Item #2: Part over items # 31 & 32 -
Steel ladders @ Raw Water &
Finish Water Reservoirs.

Product Manager

11/20/85
(Date)

Item #3: same as above



EDGCOMB METALS

The Spirit Of Excellence



Debnam Hughes Corporation
Box 9677
Greensboro, N.C. 27408

Same
2740 Church Street

We certify that material shipped against your purchase order 8424
complies with the specification requested by you on your order and as indicated
on our shipping documents and invoice.

Specification: HOT ROLLED BAR ANGLE

Description of material:

Item #1: 2 x 1-1/2 x 1/4 x 20 Ft.
Item #2 _____
Item #3 _____
Item #4 _____

TYPICAL CHEMICAL RANGE

	<u>Carbon</u>	<u>Mang.</u>	<u>Phos.</u>	<u>Sul.</u>	<u>Nickel</u>	<u>Chromium</u>	<u>Moly.</u>
Item #1	.26/.31	.60/.90	.04 MAX	.058 MAX			
Item #2							
Item #3							
Item #4							

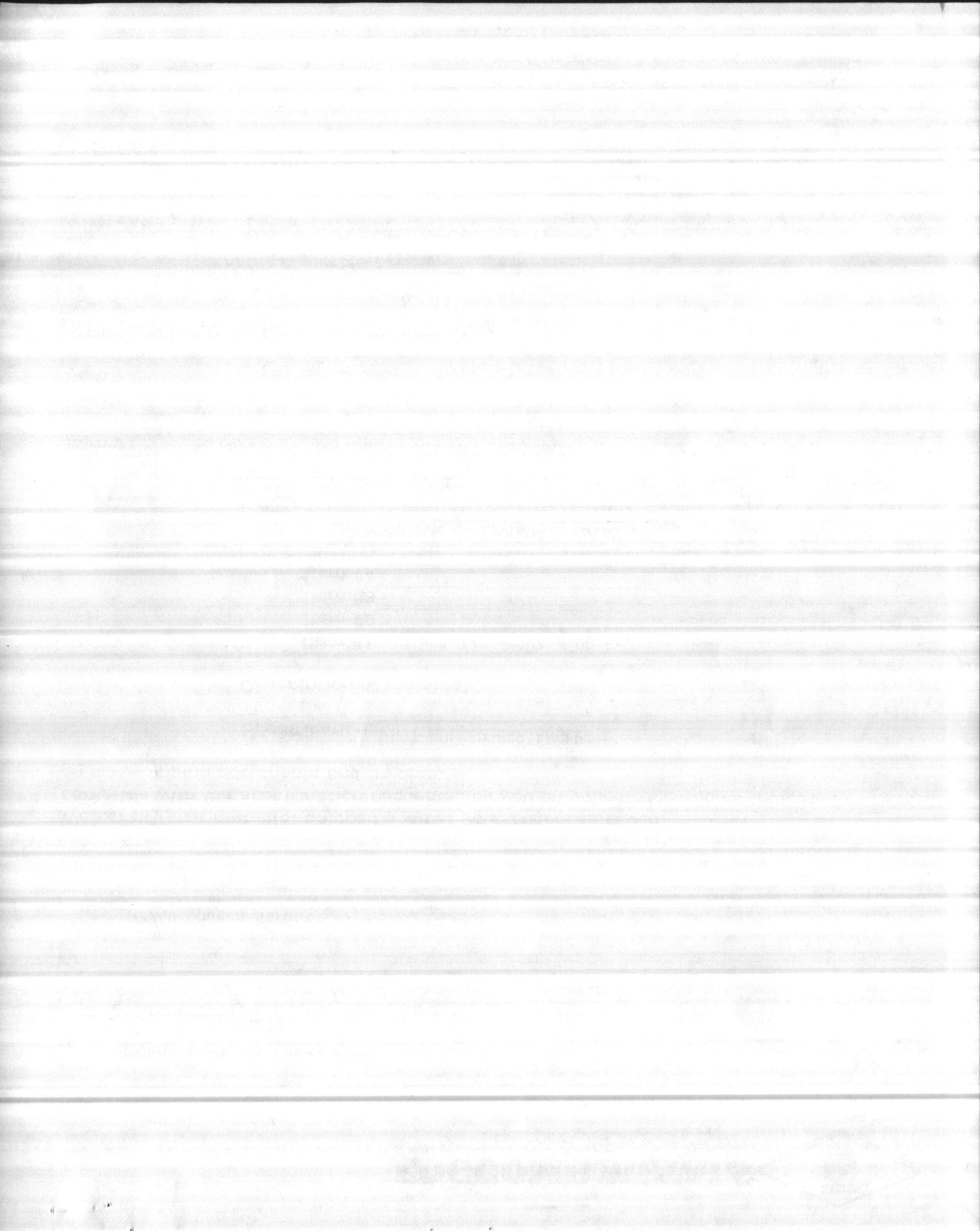
Thank you for this opportunity to serve you.

Sincerely,

Item #1: Part our line item #2 - Angle
framing @ Backwest Junction Box

Rowan Self
Product Manager

11/20/85
(Date)



EDGCOMB METALS

The Spirit Of Excellence



Debnam Hughes Corporation
Box 9677
Greensboro, N.C. 27408

Same
2740 Church Street

We certify that material shipped against your purchase order 8605
complies with the specification requested by you on your order and as indicated
on our shipping documents and invoice.

Specification: HOT ROLLED BAR ANGLE

Description of material:

Item #1: 1-1/4 x 1-1/4 x 1/4 x 20 Ft.
Item #2 _____
Item #3 _____
Item #4 _____

TYPICAL CHEMICAL RANGE

	<u>Carbon</u>	<u>Mang.</u>	<u>Phos.</u>	<u>Sul.</u>	<u>Nickel</u>	<u>Chromium</u>	<u>Moly.</u>
Item #1	.26/.31	.60/.90	.04 MAX	.058 MAX			
Item #2							
Item #3							
Item #4							

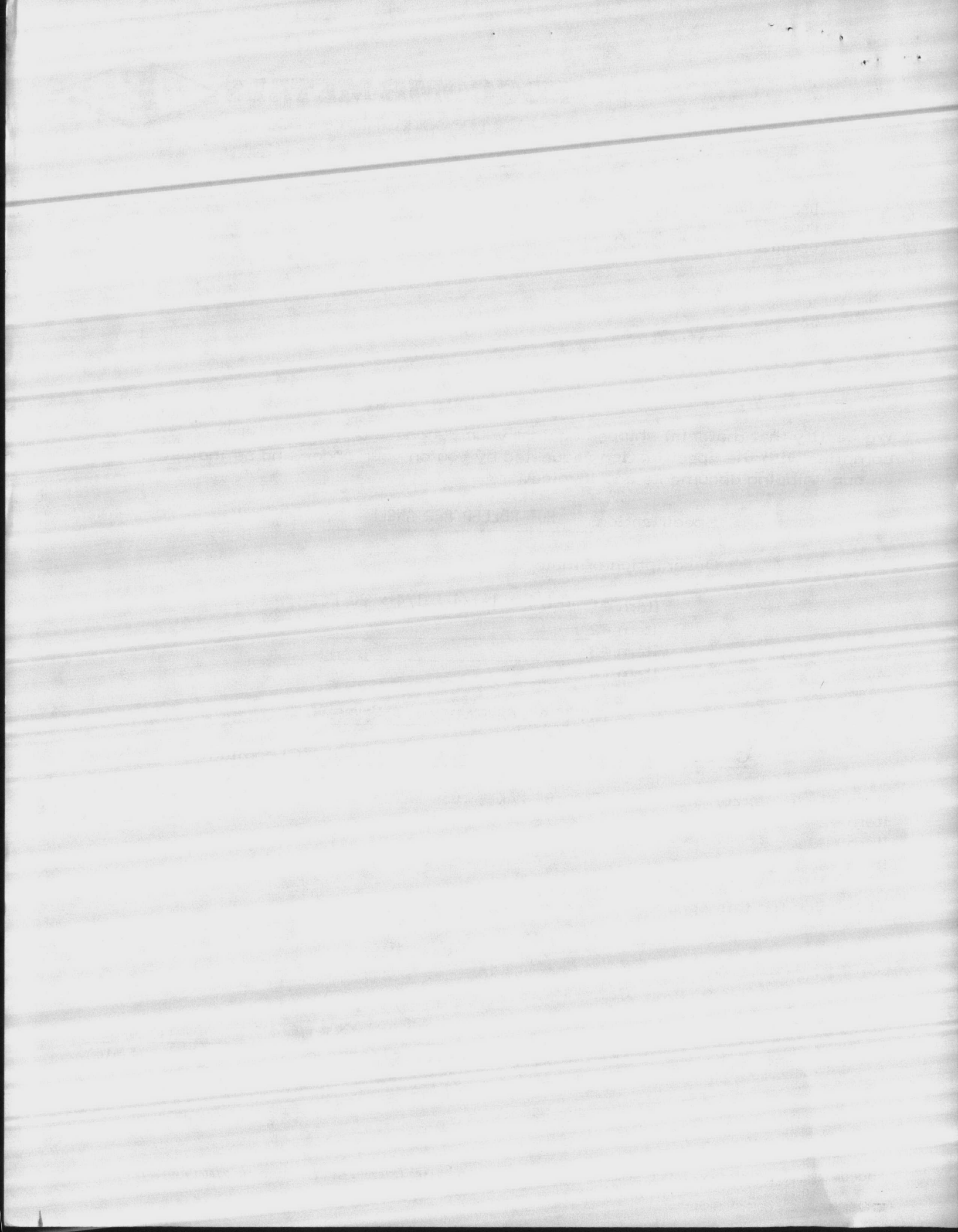
Thank you for this opportunity to serve you.

Sincerely,

Item #1: Part on item #24 - Angle
bracing @ Raw Water Pump
Station.

Ron Self
Product Manager

11/20/85
(Date)



IKG INDUSTRIES

Item # 2

OFFICES and PLANTS: Madera, California; Carpentersville, Illinois; Kansas City, Kansas;
Mexico City, Mexico; Gulfport, Mississippi; Long Island City, N. Y.; Charlotte, North Carolina;
Easton, Pennsylvania; Nashville, Tennessee and Salt Lake City, Utah.

RECEIVED

NOV 25 1985

PLEASE REPLY TO:

P.O. Box 479
Nashville, Tennessee 37202
Telephone: (615) 242-4262

November 22, 1985

DEBNAM-HUGHES CORP.

Debnam & Hughes Corporation
P. O. Box 9677
Greensboro, NC 27408

Reference: Your Purchase Order 3579-3417
IKG Contract 500492

Gentlemen:

This is to certify that subject work conforms to Federal Specification RR-G-661.

James E. Belcher, Jr.

J. E. Belcher, Jr., P.E.
Chief Engineer/Q.A. Manager

JEB/ajc

cc: File 500492

GRATING

(Our line items # 2, 8, 21, 24)





Hent

CONTRACTOR'S SUBMITTAL TRANSMITTAL
LANTDIV NORFOLK 4-4355/3 (Rev. 11-80)

CONTRACT NO. 81-C-1644	TRANSMITTAL NO. 81	DATE 7-15-85
---------------------------	-----------------------	-----------------

FROM CONTRACTOR
Harry Pepper & Associates, Inc.

TO
Henry Von Oesen & Associates, Inc.

PROJECT TITLE AND LOCATION
Holcomb Blvd Water Treatment Plant

MCB, Cp Lejeune, North Carolina

CONTRACTOR USE ONLY

REVIEWER USE ONLY

*List only one specification division per form.

List only one of the following categories on each transmittal form, and indicate which is being submitted

- Contractor Approved OICC Approval Deviation/Substitution For OICC Approval

****ACTION CODES**
A-Approved
D-Disapproved
AN-Approved as noted
RA-Receipt acknowledged.
C-Comments
R-Resubmit

ITEM NO.	PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO. *	ITEM IDENTIFICATION (Type, size, model no., Mfg. name, dwg. or brochure number)	NO. OF COPIES	ACTION CODES **	REVIEWER'S INITIALS CODE AND DATE
	05500	METAL FABRICATIONS			
1	2.6.4	Manufacturer's Data on Frames and Covers	4	RA	MB

CONTRACTOR'S COMMENTS

Certification of Compliance is forthcoming.

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC: **ONE COPY TO ROICC**

CONTRACTOR REPRESENTATIVE (Signature): *Phil Reese*

DATE RECEIVED BY REVIEWER: **7/17/85**

FROM (Reviewer): **Henry von Oesen & Assoc., Inc.**

TO:

- Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contract requirements unless the contractor calls attention to and supports the deviation.
- Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE ONLY Section and in comments below on **ONE COPY** of the transmittal form.

REVIEWER'S COMMENTS: **Contractor approval appears to be appropriate.**

COPIES TO: ROICC (2), LANTDIV (1), A-E (1)

DATE: **7/18/85**

SIGNATURE: *Phil Reese*

19 JUL 1985 13 04

DEBNAM-HUGHES CORPORATION

PROJ: HOLCOMB BLVD. WATER TREATMENT PLANT

3417

Architectural Metals / P. O. Box 9677
Greensboro, N. C. / 27408 / Phone: 919-375-4480

M.C.B. - CAMP LEJEUNE, NC

B-5

CONTR: HARRY PEPPER & ASSOCIATES, INC.

FLOOR HATCH REQUIREMENTS

ITEM #5

JD-3

TWO BILCO TYPE ~~JD-3AL~~ REQ'D AT
ALTITUDE VALVE PITS (ALUMINUM - 4'-0" x 6'-0")

ITEM #41

JD-3

TWO BILCO TYPE ~~JD-3AL~~ REQ'D AT
UNDER DRAIN PUMP STATIONS
(ALUMINUM - 4'-0" x 6'-0")

JD-4

TWO BILCO TYPE ~~JD-4AL~~ REQ'D AT
UNDER DRAIN PUMP STATIONS
(ALUMINUM - 3'-0" x 3'-0")

FOR APPROVAL ONLY

will be
hot dipped
galvanized

It is hereby certified that the (material) (equipment) shown and marked in this submittal, shop drawings, catalog cut (s), etc., and approved/proposed to be incorporated into Contract Number N62470-81-C-1644 is in compliance with the Contract Drawings and Specifications and can be installed in the allocated space, and is:

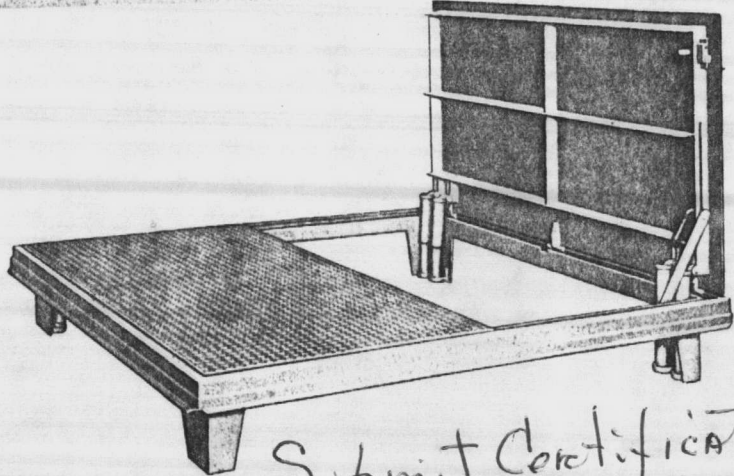
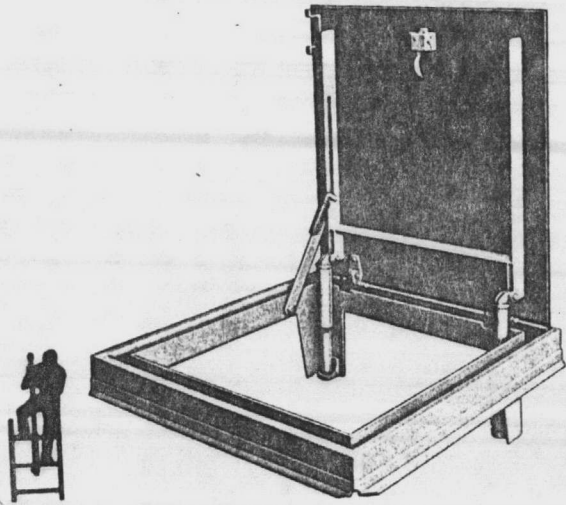
- Approved for use.
- Submitted for Government approval.
- Approved for use subject to Government approval of specific deviation.

Authorized Reviewer _____ DATE _____

Signature CQC Rep. *Phil Peave* DATE *7-15-85*

FOR APPROVAL

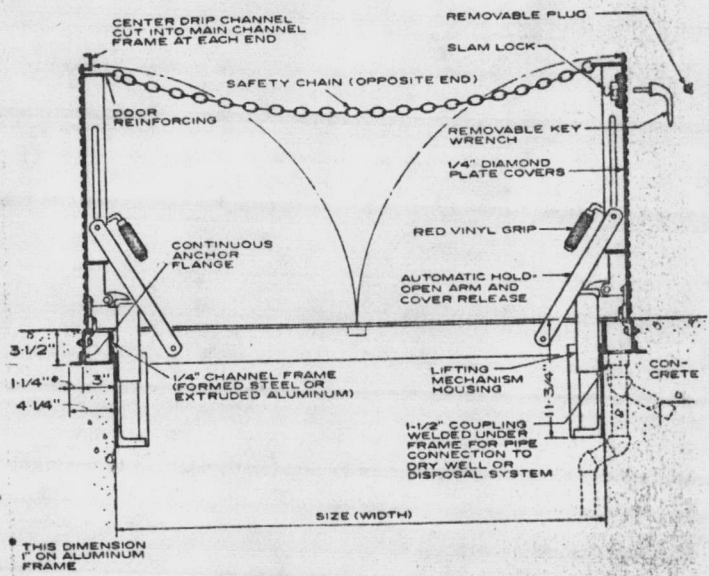
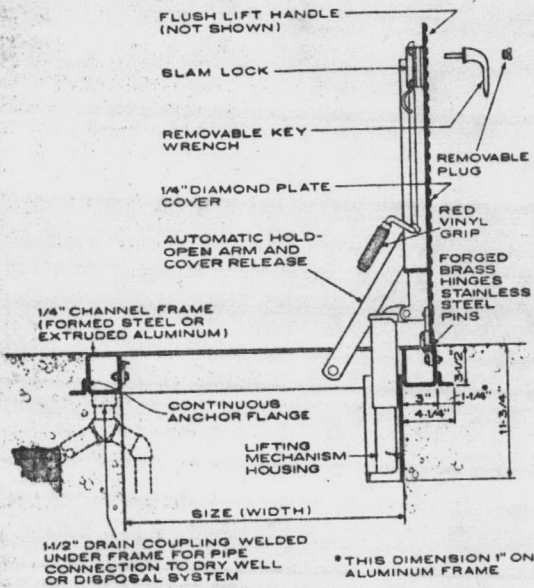
INTERIOR / EXTERIOR DOORS



Submit Certification

**"J" SINGLE LEAF, CHANNEL FRAME
 STEEL OR ALUMINUM**

**"JD" DOUBLE LEAF, CHANNEL FRAME
 STEEL OR ALUMINUM**



STANDARD SIZES AND WEIGHTS

Type J, and JD

(Special sizes are available)

Type	SIZE Width	SIZE Length	Material	WT. Lbs.	Type	SIZE Width	SIZE Length	Material	WT. Lbs.
J-1	2'0"	2'0"	Steel	175	JD-2	4'0"	4'0"	Steel	455
J-1AL	2'0"	2'0"	Aluminum	60	JD-2AL	4'0"	4'0"	Aluminum	160
J-2	2'6"	2'6"	Steel	235	JD-3	4'0"	6'0"	Steel	620
J-2AL	2'6"	2'6"	Aluminum	85	JD-3AL	4'0"	6'0"	Aluminum	225
J-3	3'0"	2'6"	Steel	270	JD-4	5'0"	5'0"	Steel	645
J-3AL	3'0"	2'6"	Aluminum	85	JD-4AL	5'0"	5'0"	Aluminum	235
J-4	3'0"	3'0"	Steel	300					
J-4AL	3'0"	3'0"	Aluminum	100					
J-5	3'6"	3'6"	Steel	390					
J-5AL	3'6"	3'6"	Aluminum	146					

SPECIFICATIONS Type J, Type JD. Access door shall be Type _____ as manufactured by The Bilco Company, New Haven, Conn. Door leaf shall be 1/4" steel (or aluminum*) diamond pattern plate to withstand a live load of 300 pounds per square foot. Channel frame shall be 1/4" steel (or aluminum) with an anchor flange around the perimeter. Door(s) shall be equipped with heavy forged brass hinges, stainless steel pins, spring operators for easy operation, and an automatic hold-open arm with release handle. A snap lock with removable handle shall be provided. A 1 1/2" drainage coupling shall be located in the front right corner of the channel frame. Hardware shall be cadmium plated and factory finish shall be prime coat of red oxide applied to steel doors and frames. (For aluminum, substitute: "Mill finish with bituminous coating applied to exterior of the frame.") Installation shall be in accordance with manufacturer's instructions. Manufacturer shall guarantee against defects in material or workmanship for a period of five years.

* For highly corrosive conditions, when so specified, Types J and JD are available with stainless steel hardware throughout.

* Item #41: 2 req'd-type JD-3AL
 2 req'd-type J-4AL

* Item #5: 2 req'd-type JD-3AL

10

1010 1/2 1/2 1/2 1/2 1/2

1010 1/2 1/2 1/2 1/2 1/2

1010 1/2 1/2 1/2 1/2 1/2

10

05500

CONTRACTOR'S SUBMITTAL TRANSMITTAL
 LANTDIV NORFOLK 4-4355/3 (Rev. 11-80)

Carter

FROM CONTRACTOR
WESTMINSTER COMPANY, Jacksonville, NC
 TO
MBTB Arch/Engineers, Greenville, SC

CONTRACT NO. **N62470-81-C-1689** TRANSMITTAL NO. **86** DATE **10/9/85**
 PROJECT TITLE AND LOCATION
**Unaccompanied Enlisted Personnel Housing
 Marine Corps Base
 Camp Lejeune, North Carolina**

CONTRACTOR USE ONLY
List only one specification division per form.
*List only one of the following categories on each transmittal form,
 and indicate which is being submitted*

Contractor Approved OICC Approval Deviation/Substitution
 For OICC Approval

REVIEWER USE ONLY
****ACTION CODES**
 A-Approved
 D-Disapproved
 AN-Approved as noted
 RA-Receipt acknowledged.
 C-Comments
 R-Resubmit

ITEM NO.	PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO. *	ITEM IDENTIFICATION (Type, size, model no., Mfg. name, dwg. or brochure number)	NO. OF COPIES	ACTION CODES **	REVIEWER'S INITIALS CODE AND DATE
1	SEC 05500	MISCELLANEOUS METALS Handrail Shop Drawings, Debnam-Hughes Sheets 7, 8, 9, 11, 12, and 13	4	RA/AN	ETK 10/24/85

CONTRACTOR'S COMMENTS

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC

CONTRACTOR REPRESENTATIVE (Signature)

Roger D. McClendon
 Roger D. McClendon

DATE RECEIVED BY REVIEWER

FROM (Reviewer)

Engineers, Inc.

TO

22 OCT 85

MBTB Architects-XXXXXXXXXX

ROICC, Jacksonville, NC Area

Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contract requirements unless the contractor calls attention to and supports the deviation.

Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE ONLY Section and in comments below on ONE COPY of the transmittal form.

REVIEWER'S COMMENTS

Minor corrections were made by the Reviewer. The Contractor is requested to update his copies of this submittal, acknowledge corrections below, and forward this submittal to the ROICC.

CORRECTIONS ACKNOWLEDGED.

/s/ TONY MARSHALL
 Signature

10-29-85
 Date *J. Michael Young*
 Signature J. Michael Young

COPIES TO:
 ROICC (2)
 LANTDIV (1)
 A-E (1)

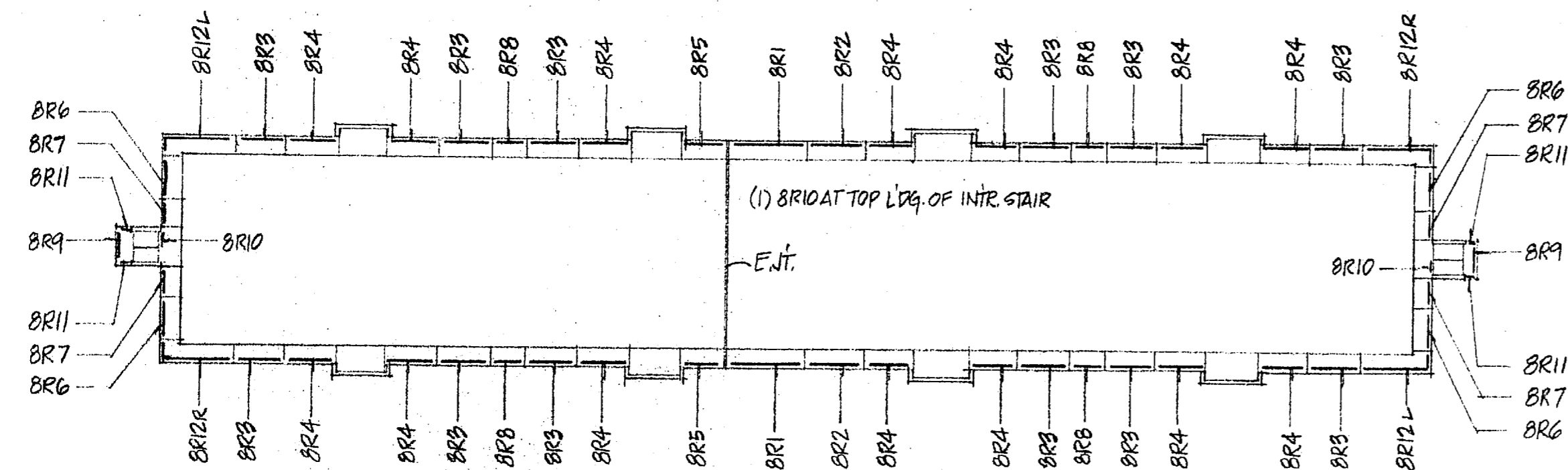
DATE

23 OCT 85

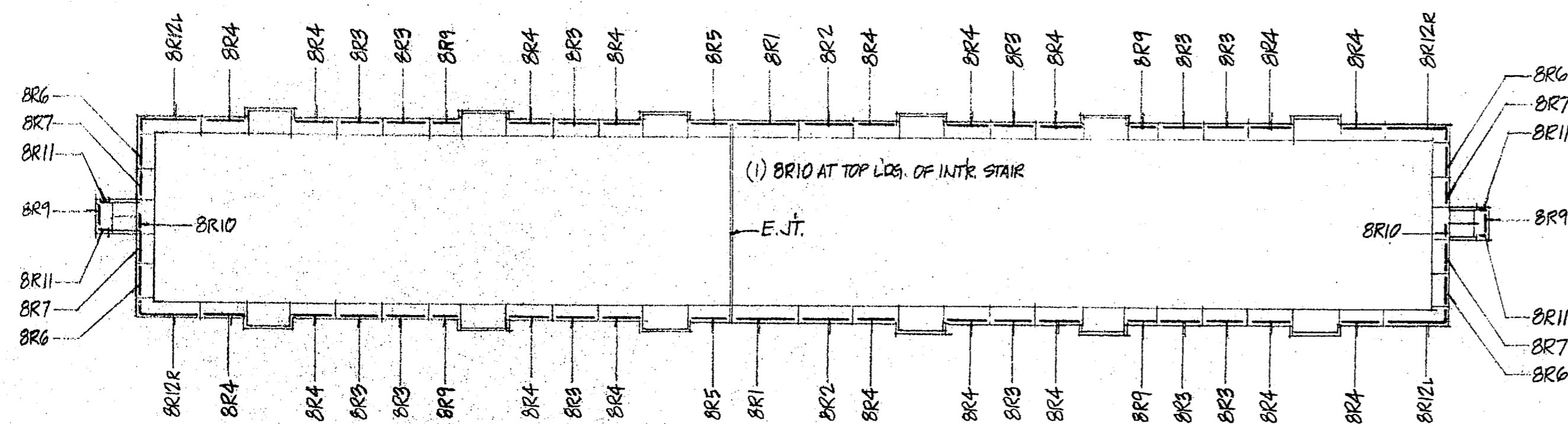
SIGNATURE

XXXXXXXXXX

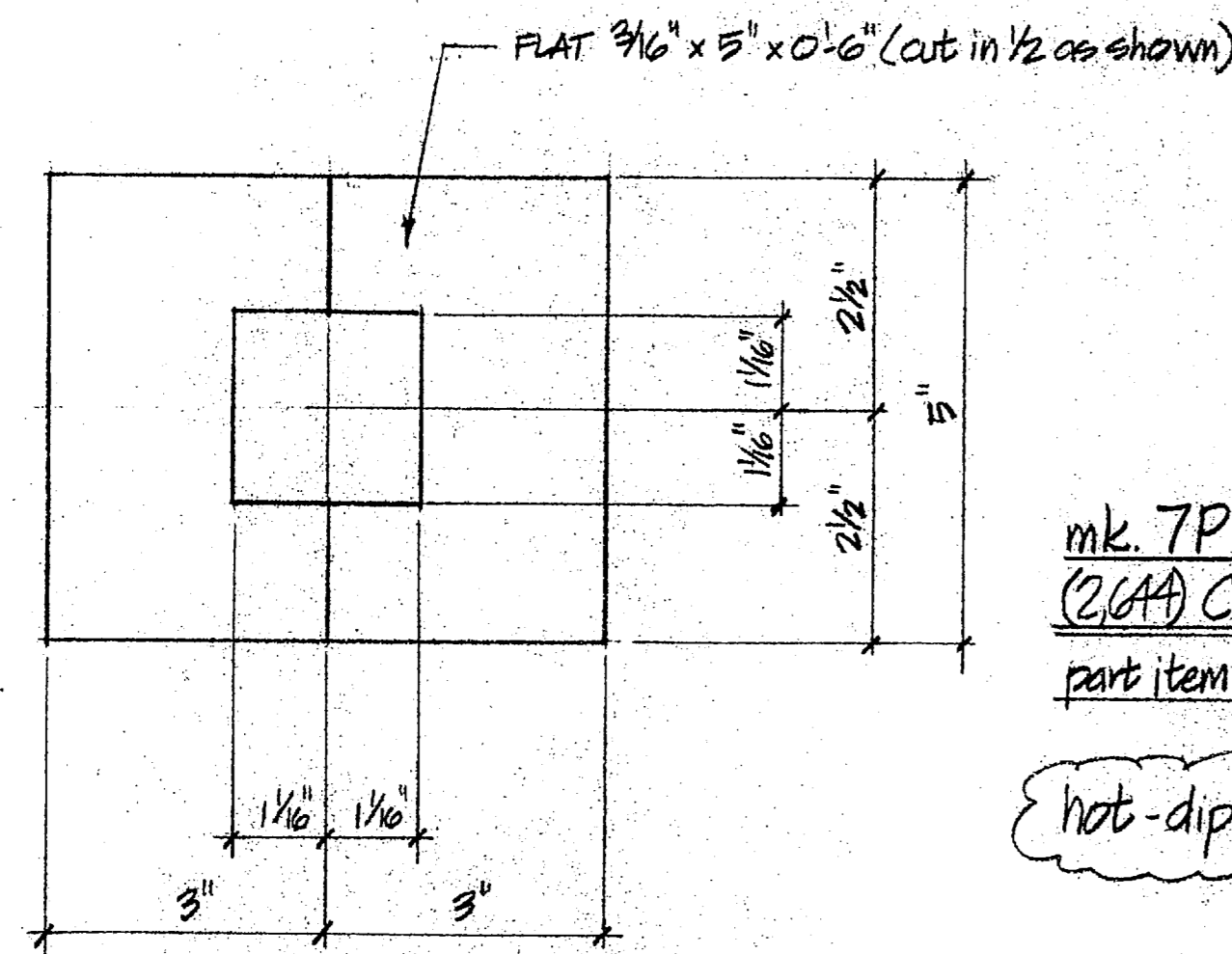
J. Michael Young



RAIL ERECTION LAYOUT - TYPE I BUILDING



RAIL ERECTION LAYOUT - TYPE II BUILDING



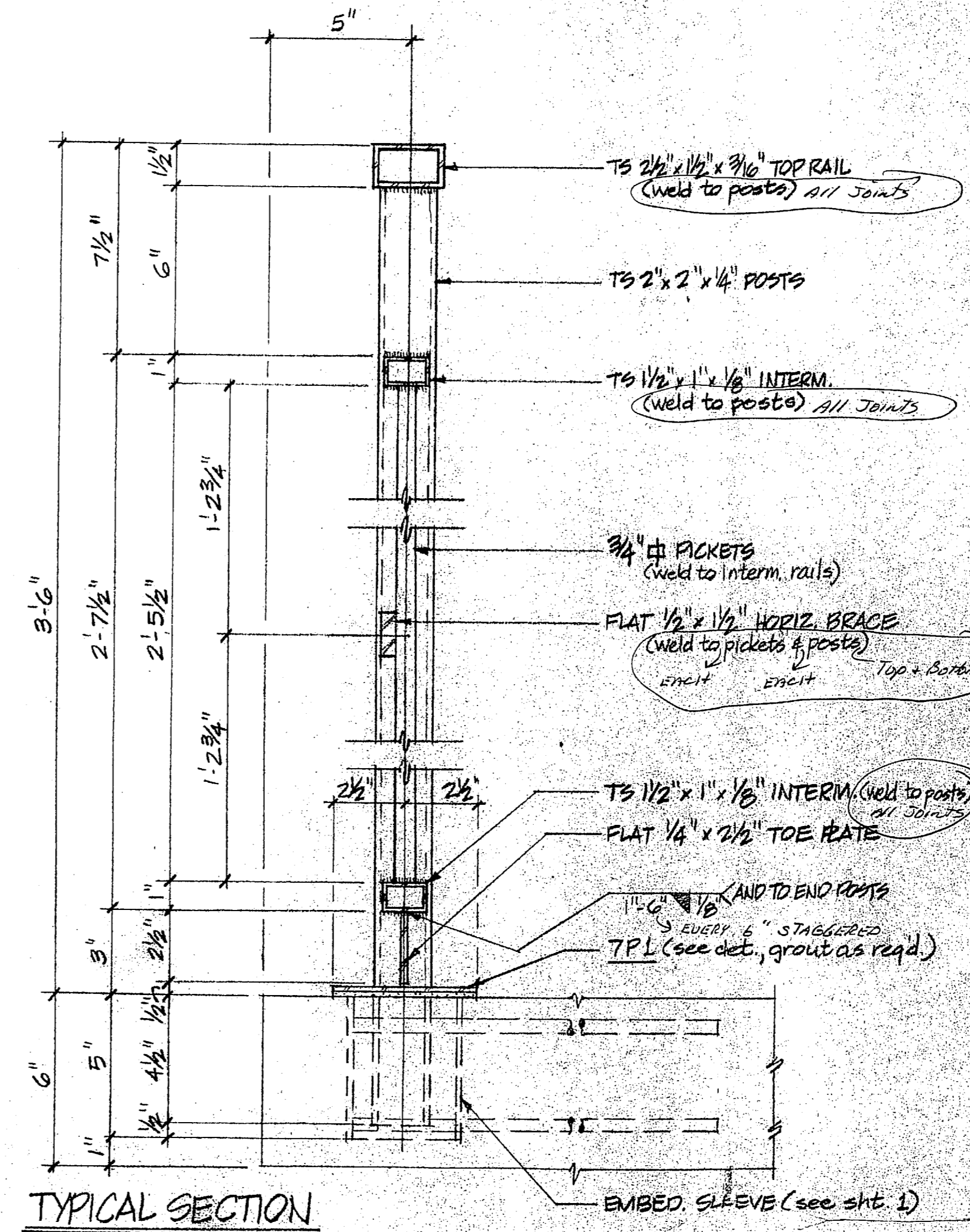
mk. 7P1
 (2,644) COVER PLATES - THUS
 part item # 10 — ref. det. 22/A13

hot-dip galv.

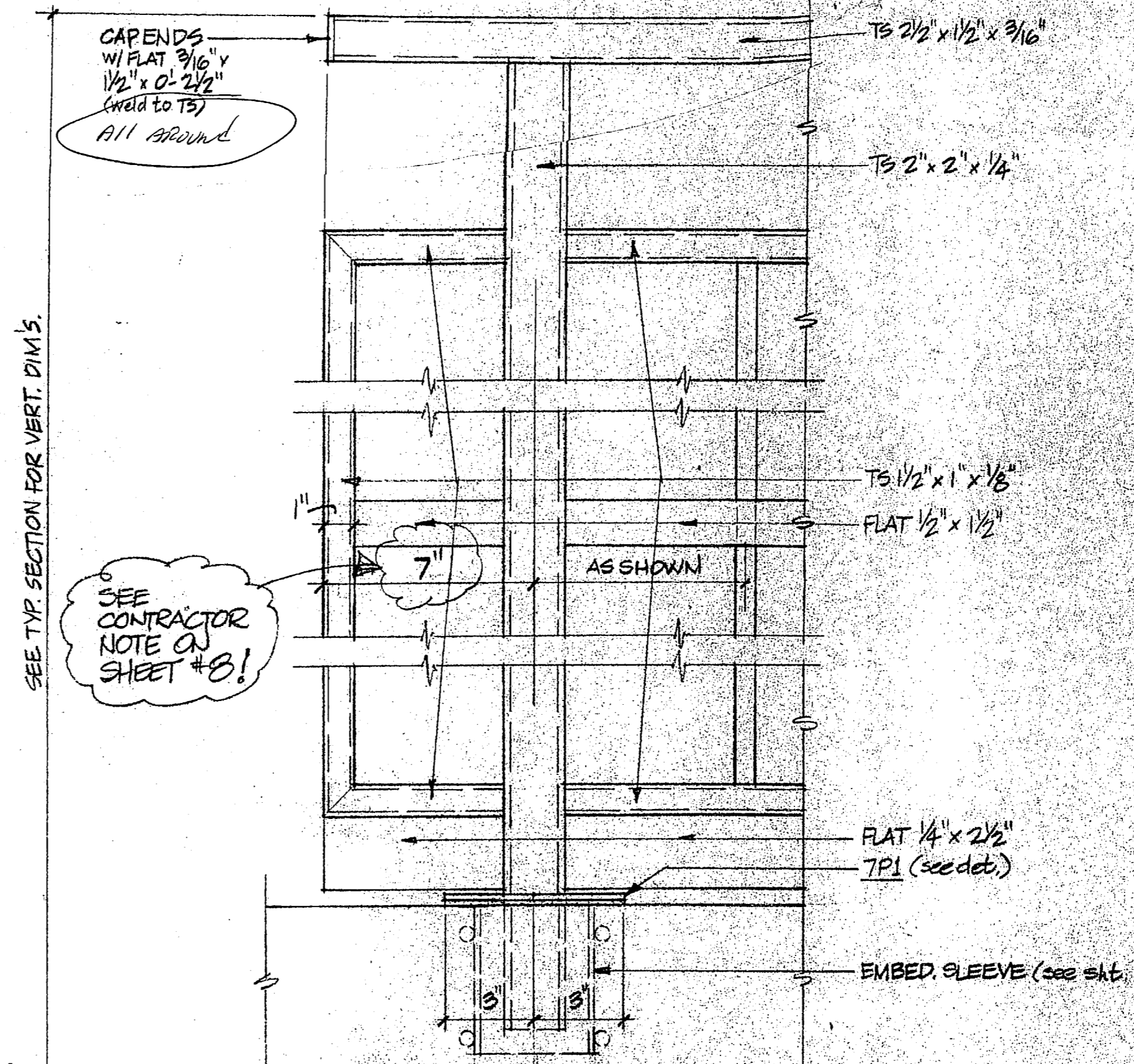
"It is hereby certified that the material (equipment) shown and marked in this submittal, shop drawings, including cuts, etc., and approved/proposed to be incorporated into Contract No. W2470-B-C-1659, is in compliance with the contract drawings and specifications, and can be installed in the allocated space, and is approved for use submitted for government approval."

Authorized Reviewer: *[Signature]* Date: *10/8/55*
 Signature C&C Rep: *Ray Marshall* Date: *10/8/55*

ALL WELDS SHALL BE Ground Smooth
 REMOVE SPATTER



TYPICAL SECTION



TYPICAL END ELEVATION
 (CENTER POST DET. MIRROR OF RIGHT VIEW OF E. OF POST)

SEE TYP. SECTION FOR VERT. DIM'S.

SEE CONTRACTOR NOTE ON SHEET #8!

BILL OF MATERIALS

ITEM NO.	MARK	NO. PCS.	SHAPE	LENGTH	REMARKS
part 10	7P1	2,644	FLAT 3/16" x 5"	0.6"	

FOR FINAL APPROVAL

all railings to be hot-dip galv.

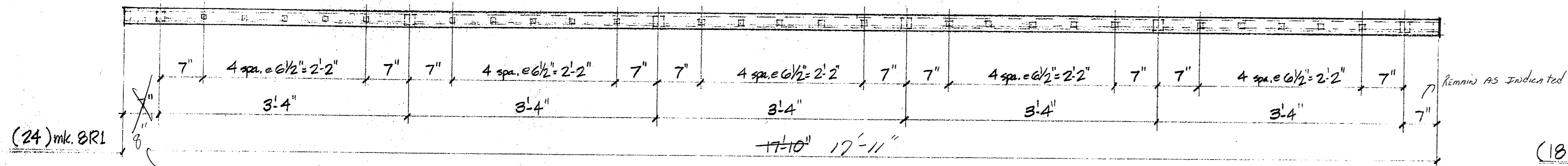
VENTILATE RAILS PROPERLY!

PRINTS A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	DEBAM-WIGHTS CORPORATION ARCHITECTURAL METALS - P. O. BOX 9677 GREENSBORO, N. C.	PROJECT UNACOMP. ENLISTED PERSONNEL HOUSING CAMP LEJUNE, N.C. CONTRACTOR WESTMINSTER CO. JACKSONVILLE, N.C.
ERECTOR BY OTHERS	PAINT AS NOTED	ARCH/ENG. MBTB
SPECIAL INSTRUCTIONS	NO. DATE DESCRIPTION REVISIONS	MADE BY <i>[Signature]</i> DATE 9/84 JOB NO. 3451 SHEET NO. 7

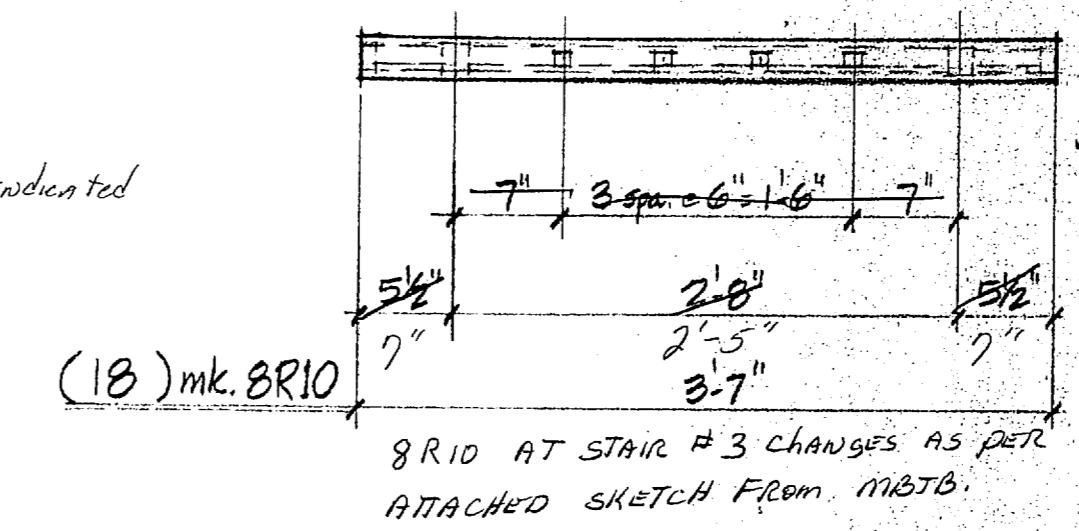
FOR FINAL APPROVAL

BILL OF MATERIALS

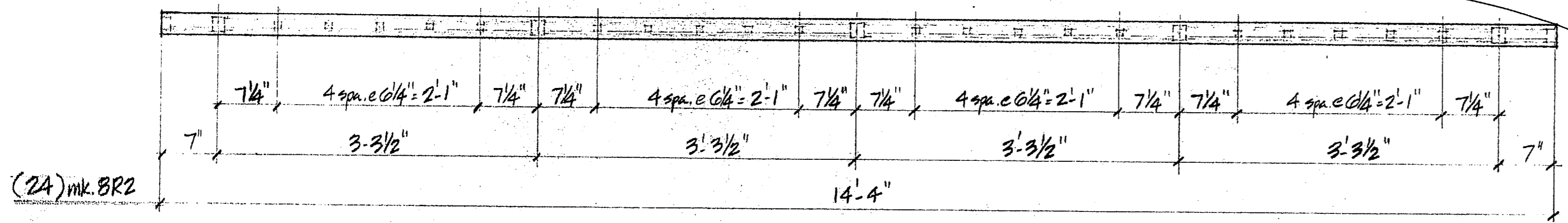
ITEM NO.	MARK	NO. PCS.	SHAPE	LENGTH	REMARKS
part 10	BR1 thru BR12	24	TS 2" x 2" x 1/4"	3'-9"	
		11,104	3/4" #1 BAR	2'-5 1/2"	
			TS 1 1/2" x 1" x 1/8"	17,969 L.F.T.	
			FLAT 1/2" x 1/2"	7,075 L.F.T.	
			FLAT 1/4" x 2 1/2"	7,190 L.F.T.	
		1,364	FLAT 3/16" x 1 1/2"	0'-2 1/2"	
		24	TS 2 1/2" x 1 1/2" x 3/16"	17'-9 3/8"	DPCAP BR1
		24		14'-3 3/8"	BR2
		144		12'-1 1/8"	BR3
		184		11'-9 3/8"	BR4
		24		11'-7 7/8"	BR5
		48		8'-9 7/8"	BR6
		48		8'-2 3/8"	BR7
		32		8'-1 1/8"	BR8
		40		7'-9 3/8"	BR9
		18		3'-0 7/8"	BR10
		48		2'-6 7/8"	BR11
		48		17'-1 1/8"	BR12
		48		4'-8 1/8"	BR12 1/2
				45° bevel cut on end	



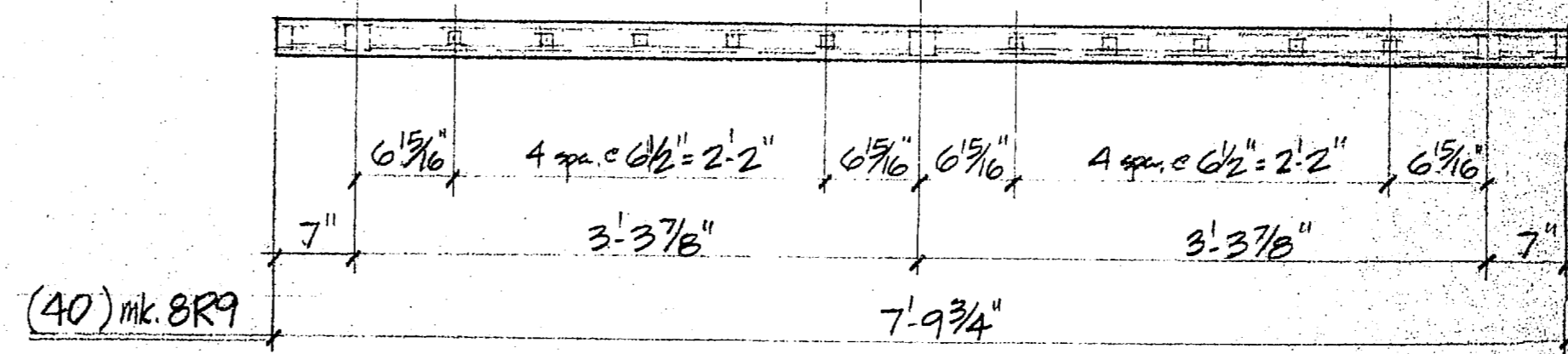
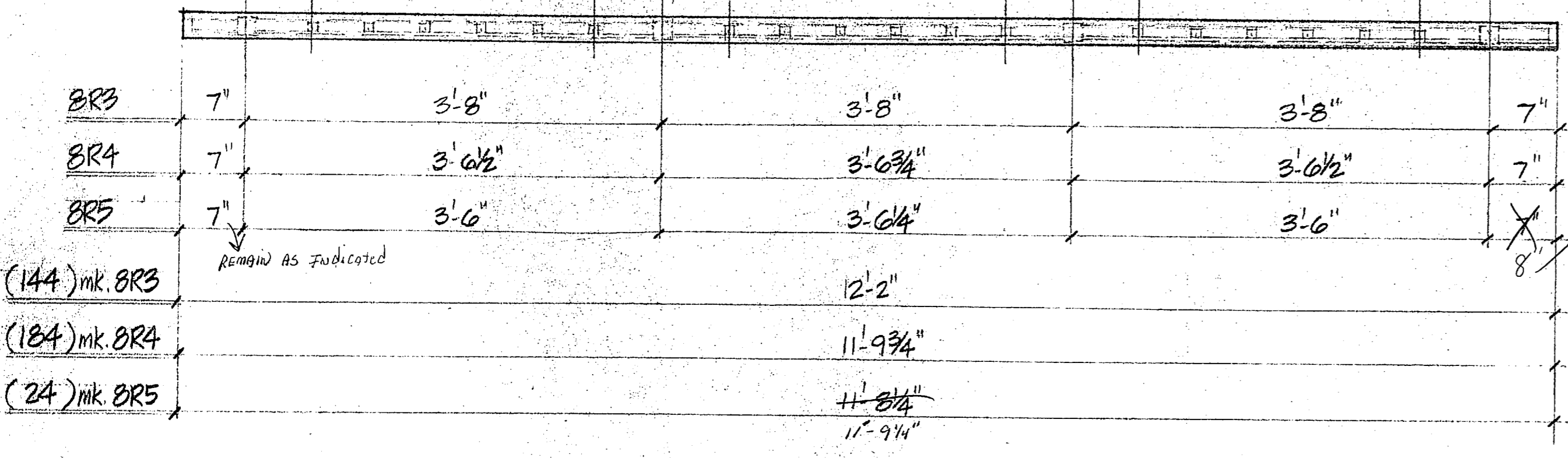
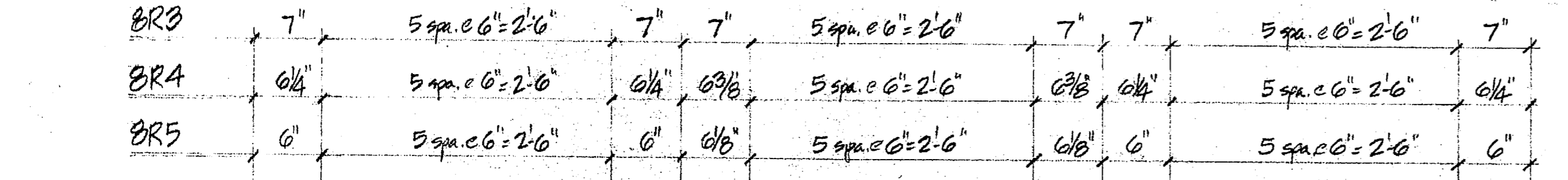
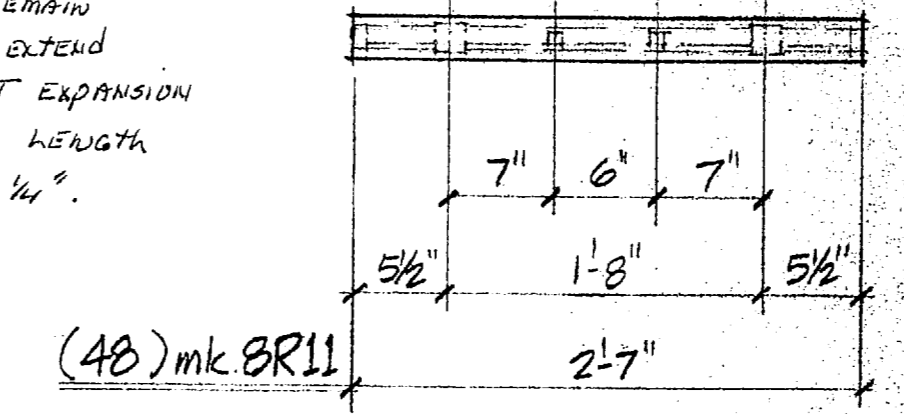
space pickets EQUALLY



BR10 AT STAIR #3 CHANGES AS PER ATTACHED SKETCH FROM MBTB.

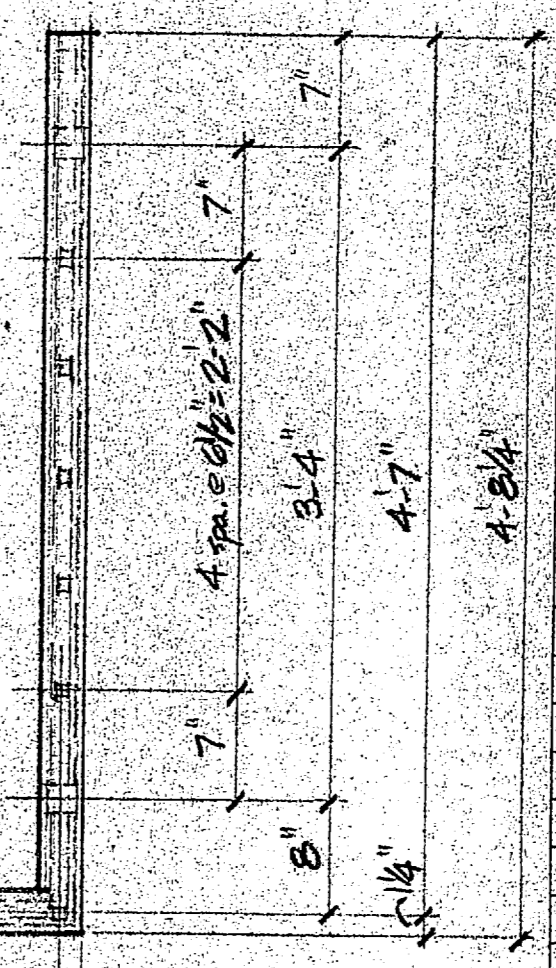
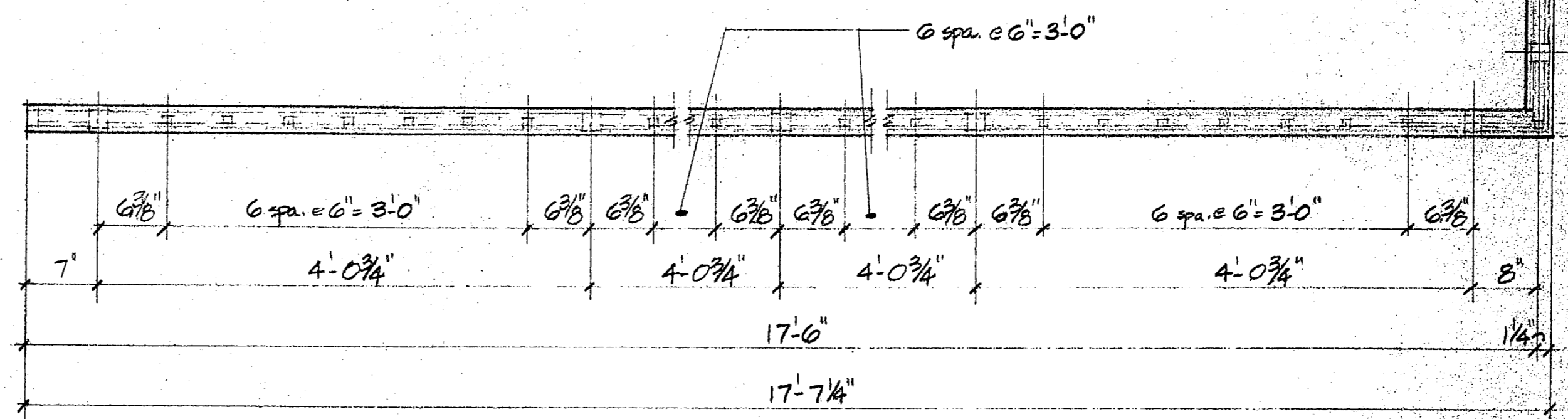
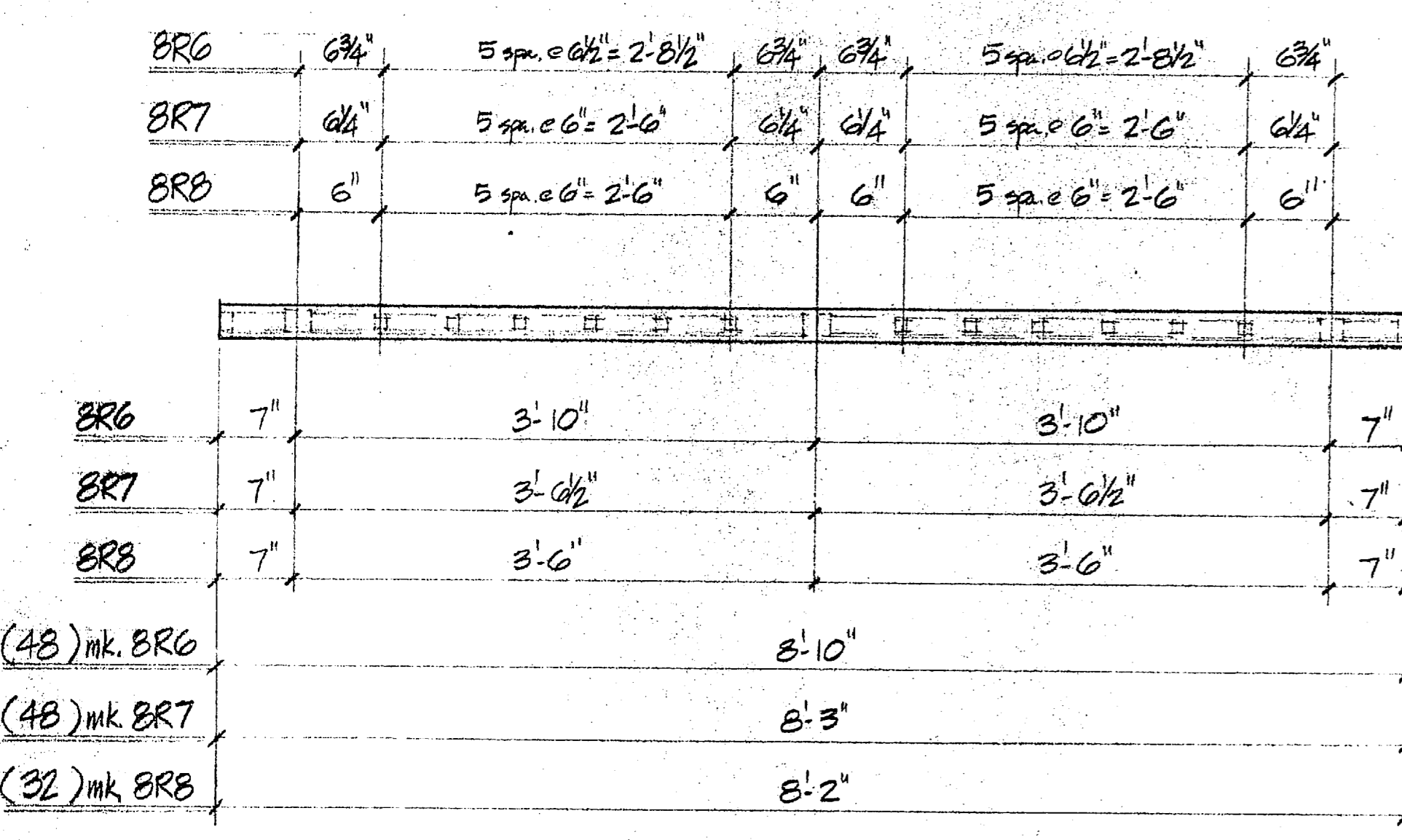


For Handrails BR1 & BR5, post locations remain as indicated. However, end of rail must extend 8" past post instead of 7" shown - AT EXPANSION JOINT LOCATION ONLY. THIS BRINGS OVERALL LENGTH OF BR1 TO 17'-11" AND BR5 TO 11'-9 1/4".
REF. DET. 13/A13/A13.



CONTRACTOR NOTE: THESE RAIL DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH DRAWINGS FOR PRECAST BALCONY SLABS PRODUCED FOR WESTMINSTER CO. BY SHARPE ARCHITECTS. RAIL POST SPACINGS ARE PER SHARPE'S DWGS, WITH END POST/RAIL END DIMENSIONS NOW ALL AT 7" (SEE DWG #7) DEBAM - HUGHES CORP NOT RESPONSIBLE FOR CORRECTNESS OF DRAWINGS FURNISHED BY WESTMINSTER OR RESULTING REVISIONS!

* SEE DETAILS ON D-H SHT. #7 FOR TYP. RAIL DETAILS
* SEE D-H SHEET #9 FOR RAIL SLEEVE SETTING TEMPLATES



FOR FINAL APPROVAL

all railings this sht. hot-dip galv.

part item #10 — ref. sht. A13

"It is hereby certified that the (material) (equipment) shown and marked in this submittal, shop drawings, catalog cut(s), etc., and approved/proposed to be incorporated into Contract Number 16-272-81-C-1647, is in compliance with the contract drawings and specifications, and can be installed in the allocated space, and is approved for use submitted for Government approval.
Authorized Reviewer: [Signature] Date: _____
Signature O&O Rep: [Signature] Date: 10/6/85

mk. BR12L
(24) RAILS - AS SHOWN

mk. BR12R
(24) RAILS - OPP. HAND

NO.	DATE	DESCRIPTION	REVISIONS
1		7/23/85 REVISED PER WESTMINSTER P.C. DWGS. JPD	

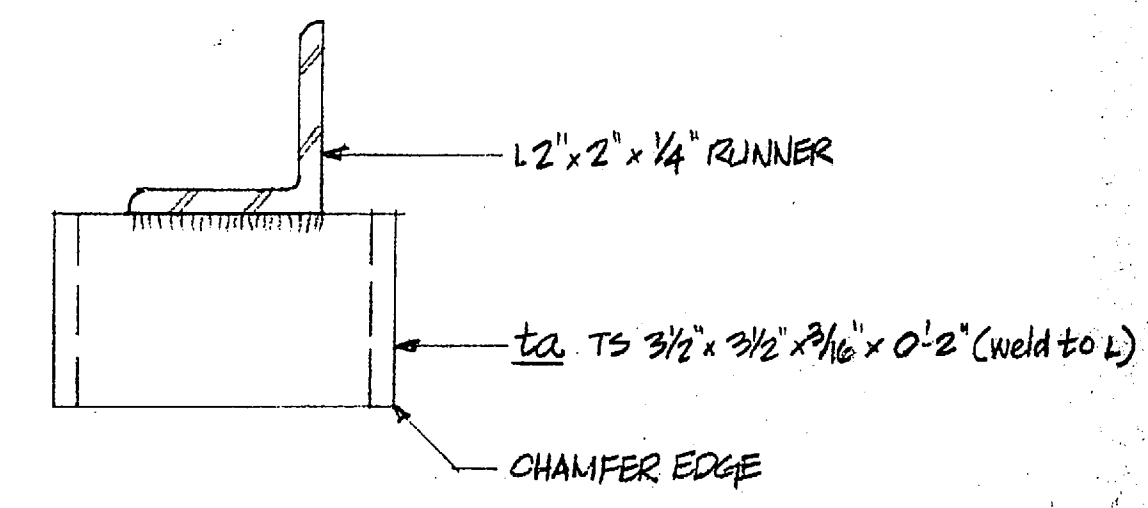
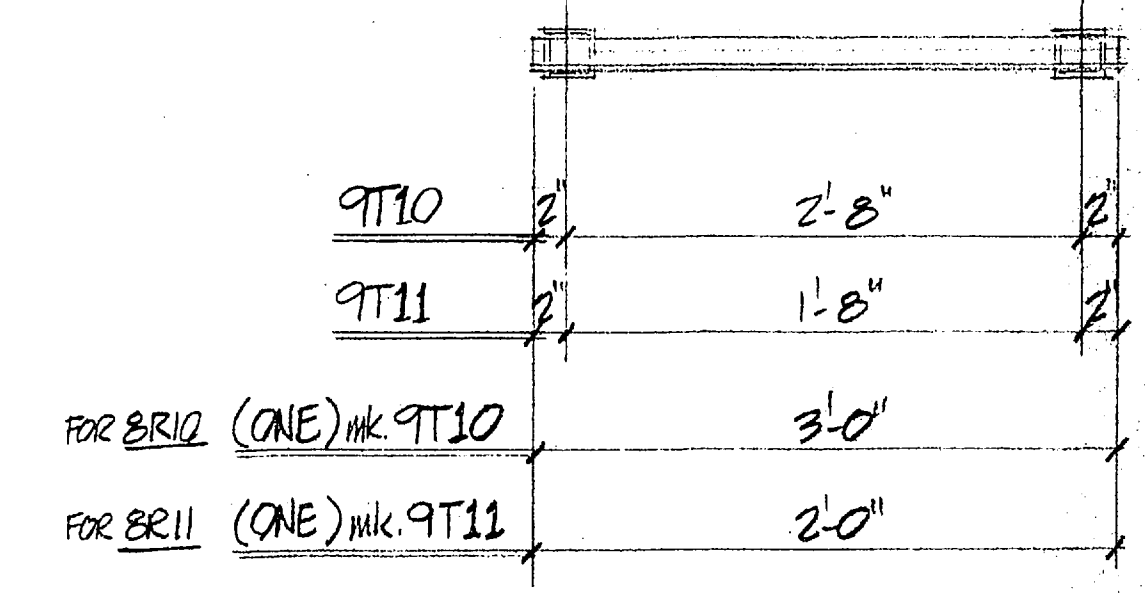
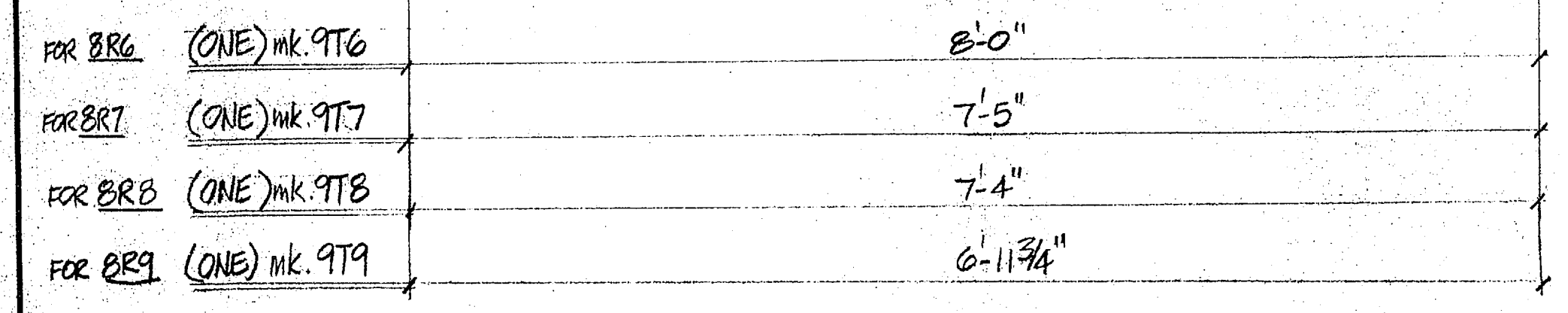
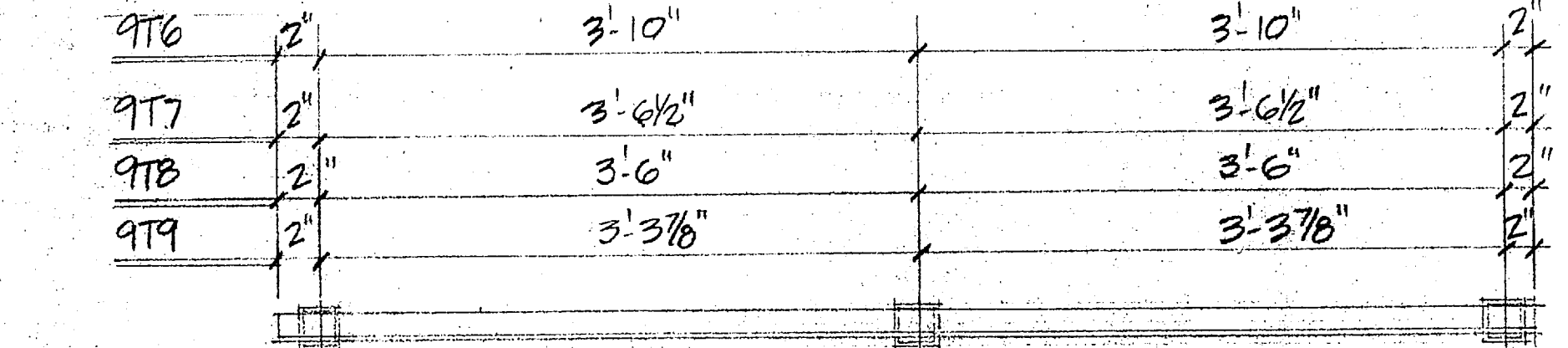
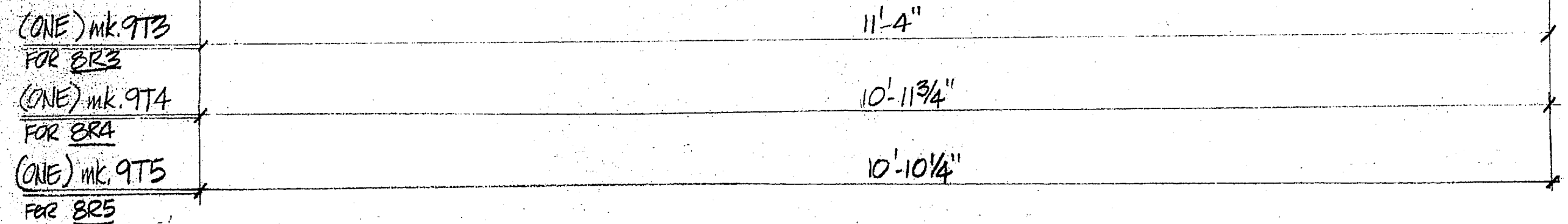
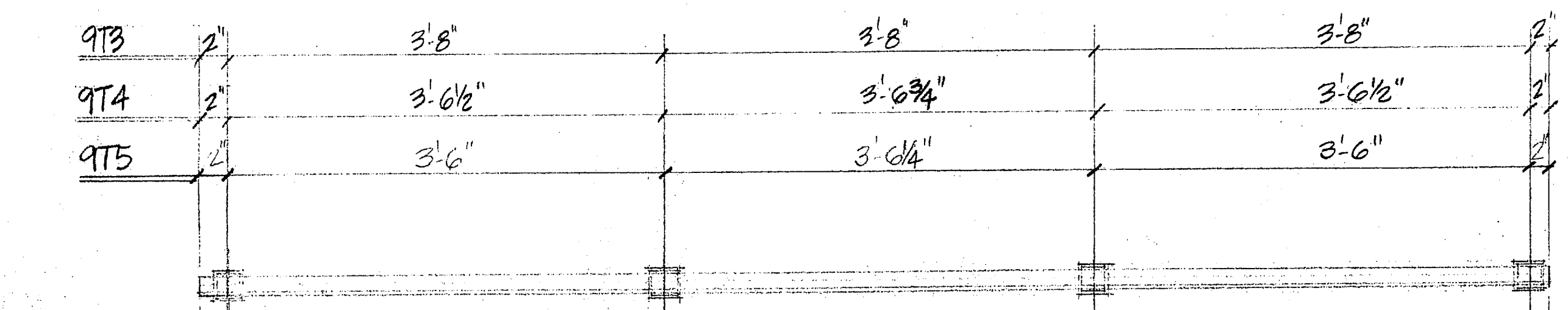
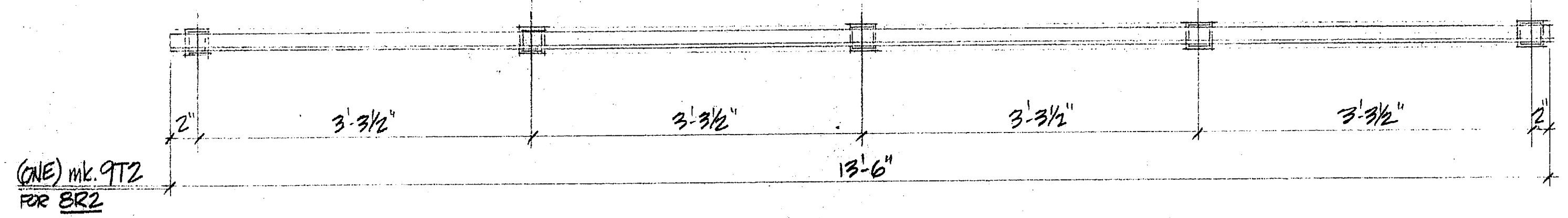
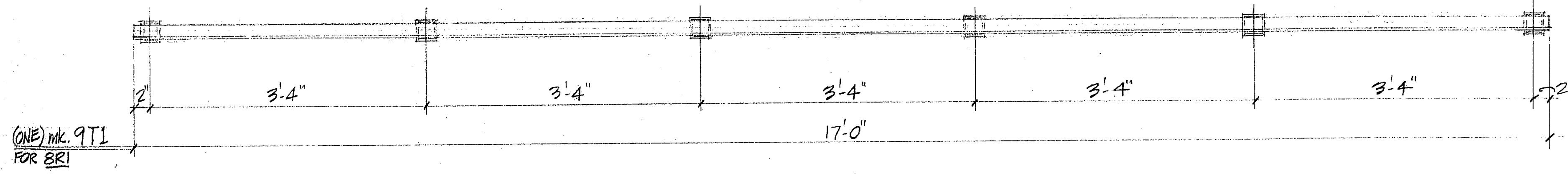
PRINTS		DEBAM-HUGHES CORPORATION	PROJECT UNACOMP. ENLISTED PERSONNEL HOUSING CAMP LEJUNE, N.C.
7/24/85	B A		
7/24/85	B FA	ARCHITECTURAL METALS - P. O. BOX 9677 GREENSBORO, N. C.	CONTRACTOR WESTMINSTER CO. JACKSONVILLE, N. C.
		ERECTION BY OTHERS	ARCH/ENG. MBTB
		PAINT AS SHOWN	MADE BY <u>Special</u> DATE <u>5/84</u>
		SPECIAL INSTRUCTIONS	DETAILS OF PART ITEM #10
			JOB NO. 3451 SHEET NO. 8

FOR FINAL APPROVAL

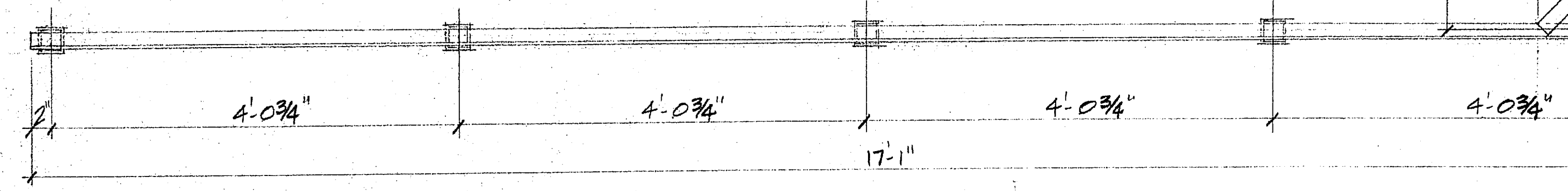
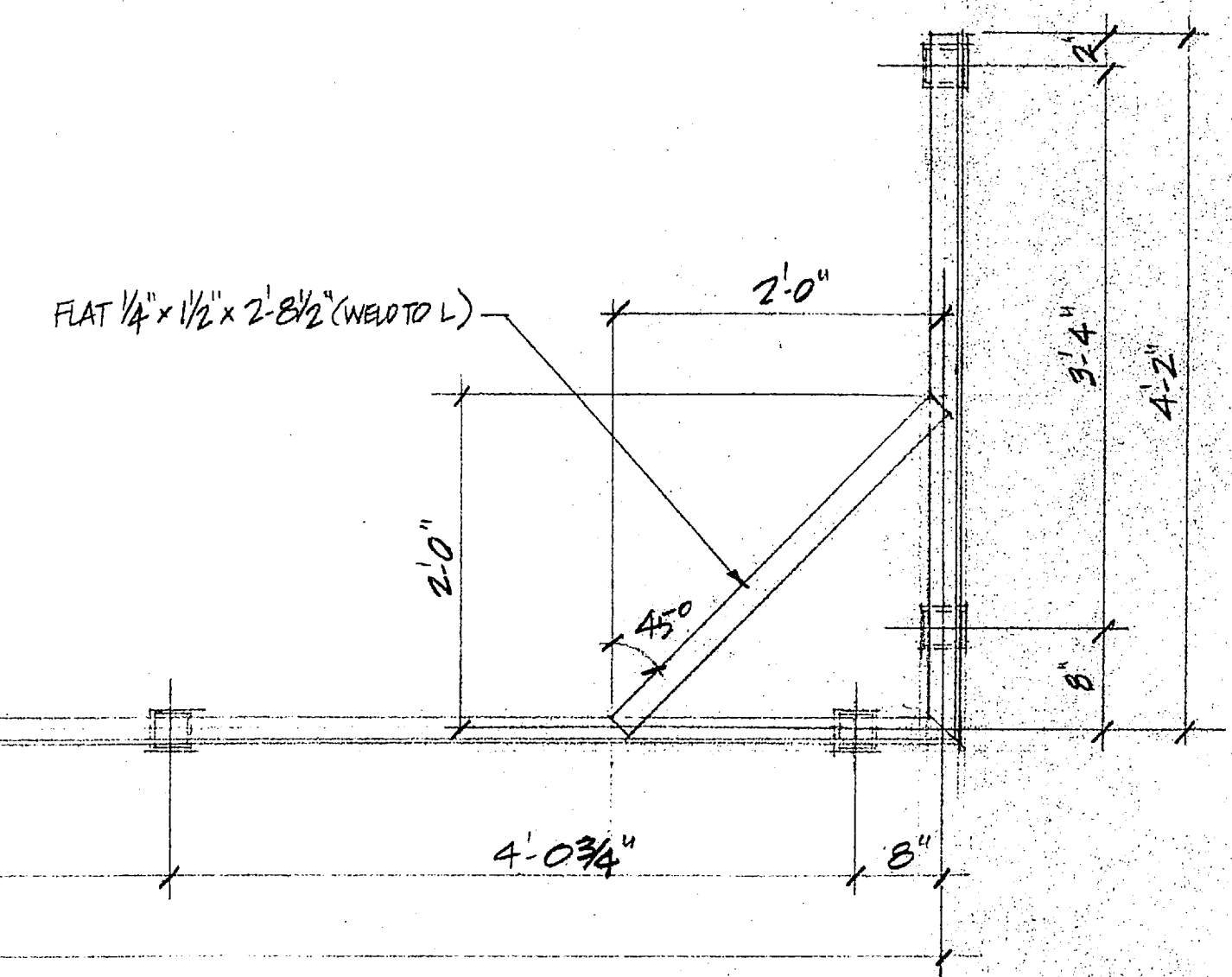
Approved for Release by NSA on 05-08-2014 pursuant to E.O. 13526

BILL OF MATERIALS

ITEM NO.	MARK	NO. PCS	SHAPE	LENGTH	REMARKS
bal. 10	9T1	ONE	L 2" x 2" x 1/4"	17'-0"	
		6	T 3 1/2" x 3/8" x 3/16"	0'-2" (ta)	
	9T2	ONE	L 2" x 2" x 1/4"	13'-6"	
		5	(ta)		
	9T3	ONE	L 2" x 2" x 1/4"	11'-4"	
		4	(ta)		
	9T4	ONE	L 2" x 2" x 1/4"	10'-11 3/4"	
		4	(ta)		
	9T5	ONE	L 2" x 2" x 1/4"	10'-10 1/4"	
		4	(ta)		
	9T6	ONE	L 2" x 2" x 1/4"	8'-0"	
		3	(ta)		
	9T7	ONE	L 2" x 2" x 1/4"	7'-5"	
		3	(ta)		
	9T8	ONE	L 2" x 2" x 1/4"	7'-4"	
		3	(ta)		
	9T9	ONE	L 2" x 2" x 1/4"	6'-11 3/4"	
		3	(ta)		
	9T10	ONE	L 2" x 2" x 1/4"	3'-0"	
		2	(ta)		
	9T11	ONE	L 2" x 2" x 1/4"	2'-0"	
		2	(ta)		
	9T12 ^L	2	L 2" x 2" x 1/4"	17'-2"	
		2	do.	4'-3"	
		2	FLAT 1/4" x 1/2"	2'-8 1/2"	
		14	(ta)		



TYP. SECTION



mk. 9T12^L
(ONE) TEMPLATE - AS SHOWN
mk. 9T12^R
(ONE) TEMPLATE - OPP. HAND

no paint

RAIL SLEEVE SETTING TEMPLATES
bal. item #10 no ref.

SEE CONTRACTOR NOTE ON SHEET #8!

FOR FINAL APPROVAL

"It is hereby certified that the material (equipment) shown and marked in this submittal, shop drawings, catalog out(s), etc., and approved/proposed to be incorporated into Contract Number 3451-4-20-31-C-1644, is in compliance with the contract drawings and specifications, and can be installed in the allocated space, and is approved for use submitted for Government approval.

Authorized Reviewer: [Signature] Date: _____
Signature CQC Rep: [Signature] Date: 10/8/85

NO.	DATE	DESCRIPTION	REVISIONS
1	10/8/85	REV. PER WESTMINSTER P.C. SLAB DINGS	SM

PRINTS		DEBNAM-BUCHES CORPORATION		PROJECT UNACQUAINTED PERSONNEL HOUSING	
7/25/85	B A	ARCHITECTURAL METALS · P. O. BOX 9627 GREENSBORO, N. C.		CAMP LEAVENWORTH, N.C.	
7/25/85	B FA			CONTRACTOR WESTMINSTER CO. JACKSONVILLE, N.C.	
ERECTOR BY OTHERS		ARCH/ENG. VESTB		MADE BY SPIN	DATE 5/84
PAINT NONE		SPECIAL INSTRUCTIONS		JOB NO.	SHEET NO.
		DETAILS OF BAL. ITEM #10		3451	9

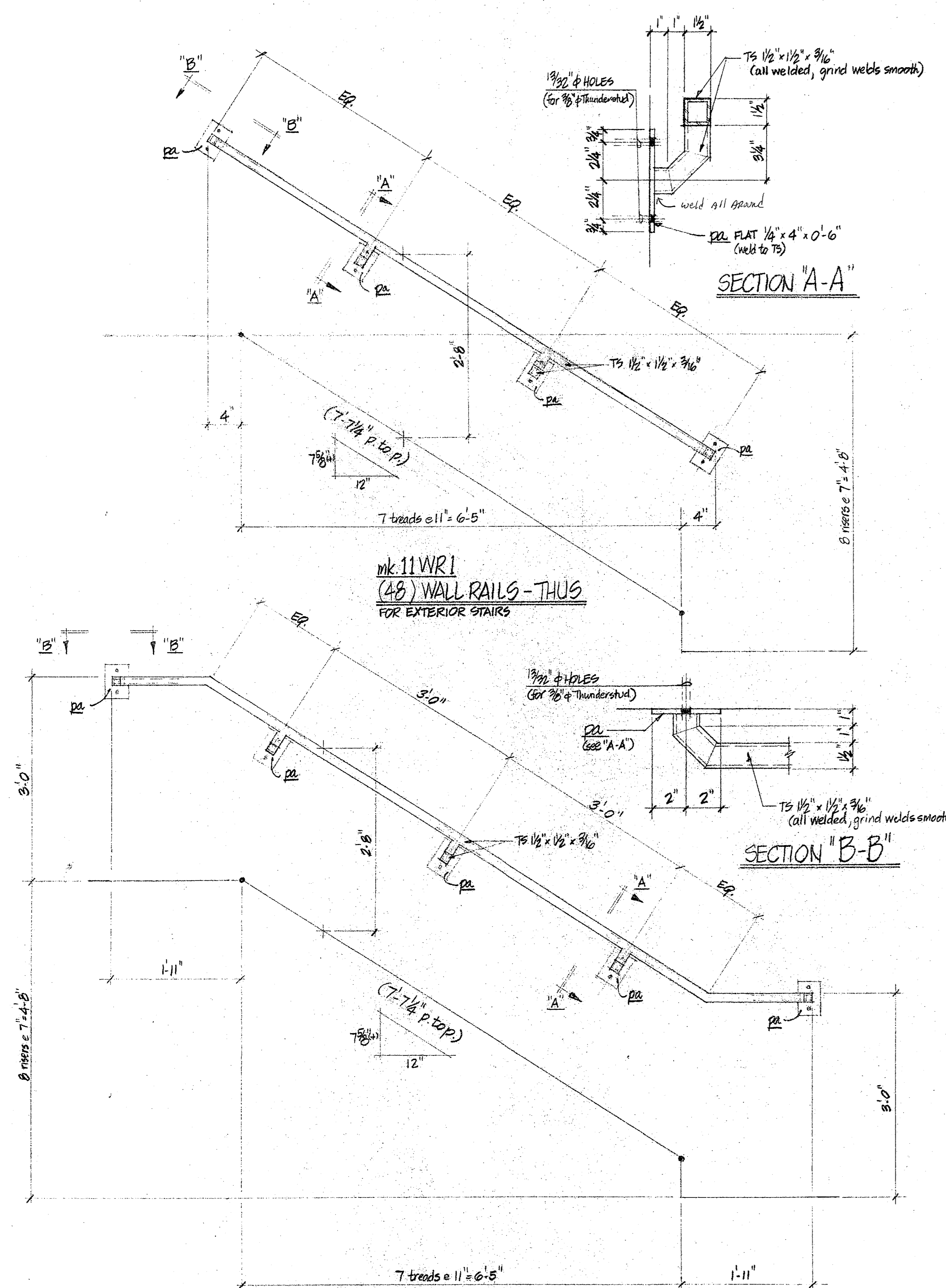
FOR FRONT APPOINTMENT

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
5708 S. UNIVERSITY AVENUE
CHICAGO, ILLINOIS 60637
TEL: 773-936-3700
WWW: WWW.CHEM.UCHICAGO.EDU

RECEIVED
JAN 10 1997
CHEMISTRY DEPARTMENT
5708 S. UNIVERSITY AVENUE
CHICAGO, ILLINOIS 60637

BILL OF MATERIALS

ITEM NO.	MARK	NO. PCS.	SHAPE	LENGTH	REMARKS
part 9	11WR1 & 2		TS 1/2" x 1/2" x 3/16"	828 L.F.	
		312	PLAT 1/4" x 4"	0'-6"	(pa)
		624	3/8" THUNDERBOLT	0'-2 1/4"	



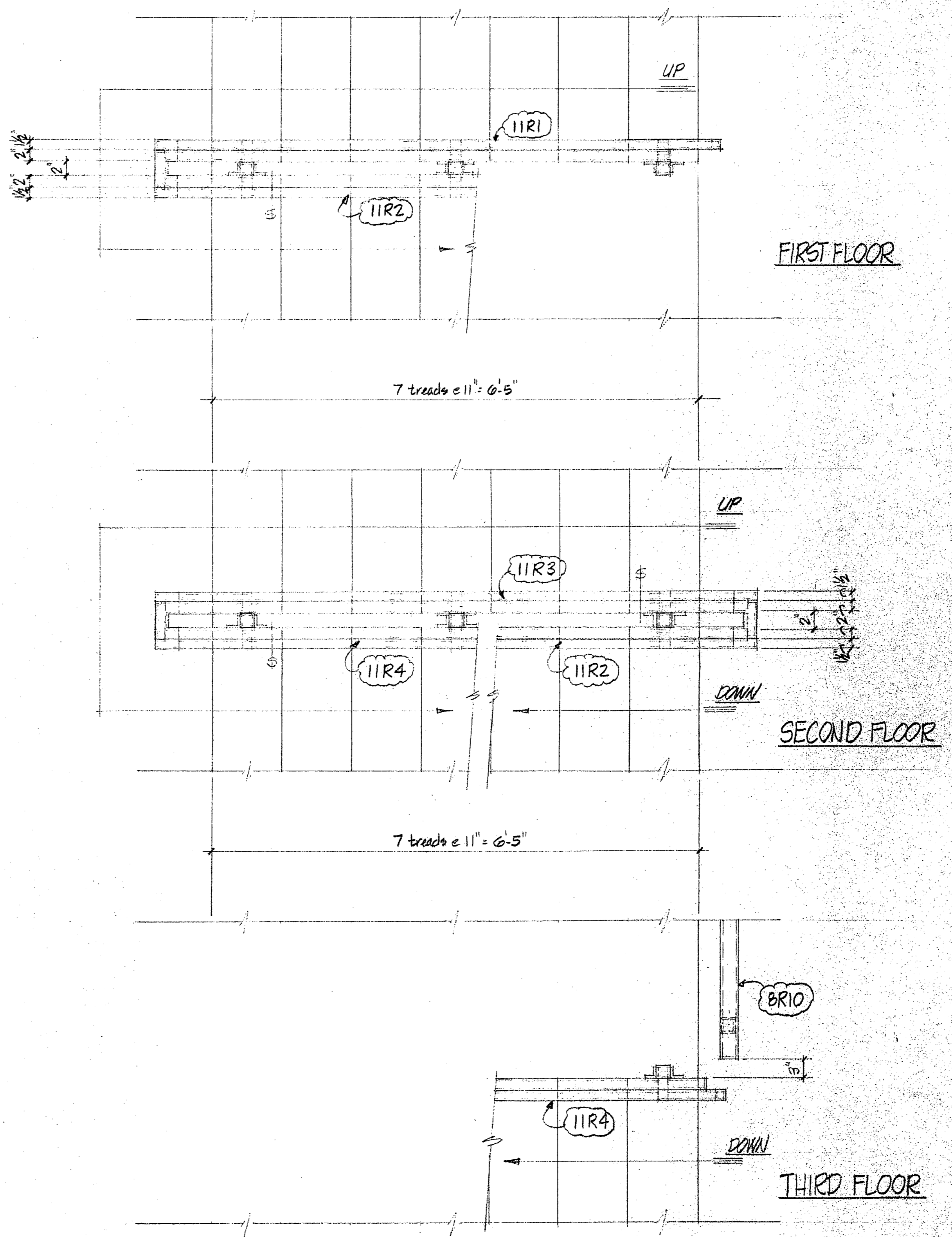
mk. 11WR1
(48) WALL RAILS - THUS
FOR EXTERIOR STAIRS

mk. 11WR2
(24) WALL RAILS - THUS
FOR INTERIOR STAIRS
part item #9 - ref. det. 6,7/A12

hot-dip galv.

"It is hereby certified that the (material) (equipment) shown and marked in this submittal, shop drawings, catalog out(s), etc., and approved/proposed to be incorporated into Contract Number W2470-S1-C-1689, is in compliance with the contract drawings and specifications, and can be installed in the allocated space, and is approved for use submitted for Government approval.

Authorized Reviewer: [Signature] Date: _____
Signature OQC Rep: [Signature] Date: 4/8/55



PLAN VIEW OF CENTER RAIL LAYOUTS
(6) LAYOUTS - AS SHOWN
(12) LAYOUTS - OPP. HAND

bal. item #9 - ref. sh'ts. A11 & A12
* SEE SHOP BILL SH'T. 12
* SEE DET'S. SH'T. 12 & 13

hot-dip galv.

FOR APPROVAL ONLY

NO.	DATE	DESCRIPTION	REVISIONS

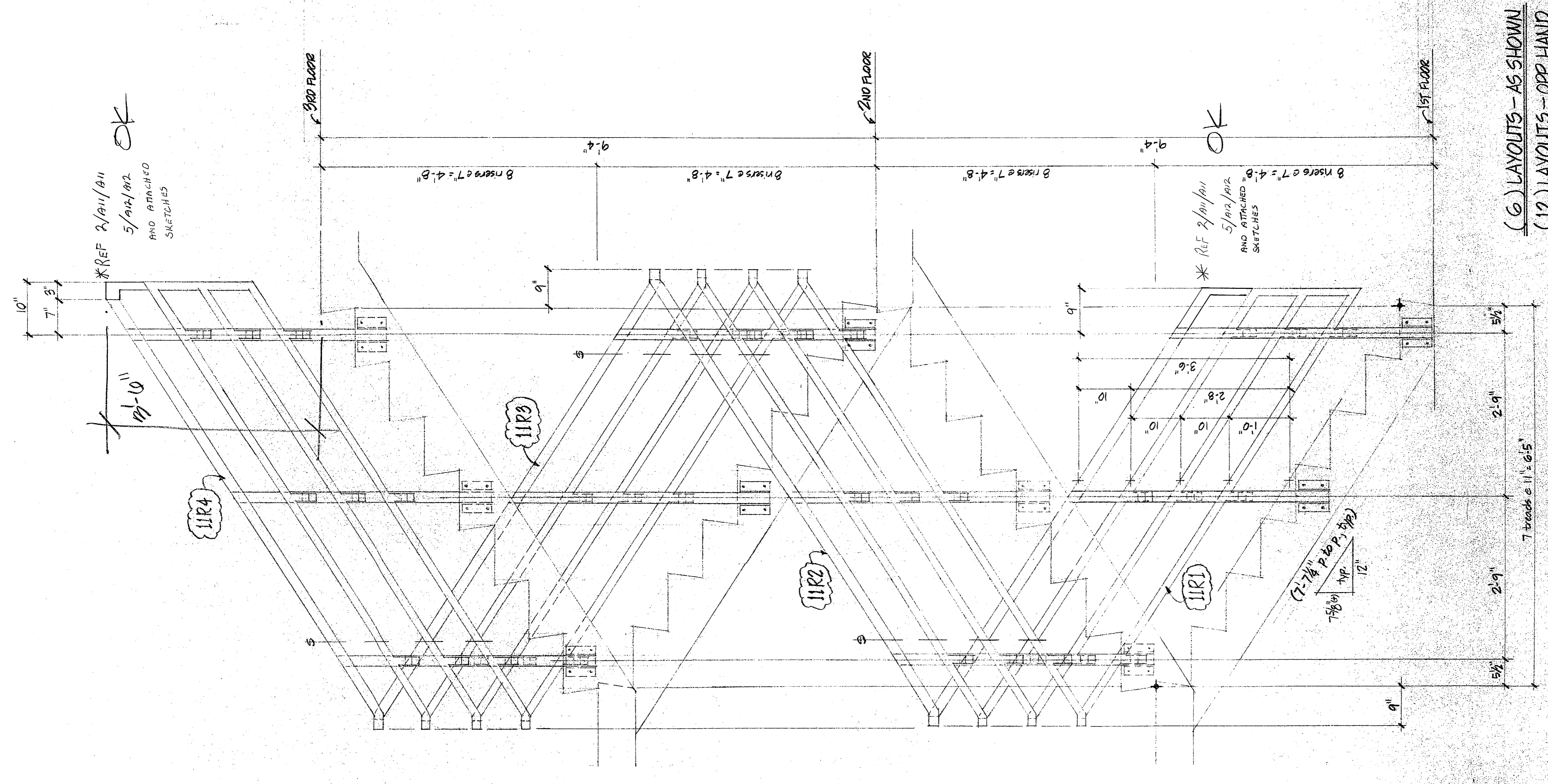
PRINTS 4 of 5 A	DEENAM-HUGHES CORPORATION ARCHITECTURAL METALS P. O. BOX 9677 GREENSBORO, N. C.	PROJECT <u>UNACCOMP. ENLISTED PERSONNEL HOUSING</u>
		CAMP LEJUNE, N. C.
		CONTRACTOR <u>WESTMINSTER CO.</u>
		JACKSONVILLE, N. C.
ERECTOR <u>BY OTHERS</u>	ARCH/ENG. <u>MBTB</u>	DATE <u>5/55</u>
PAINT <u>HOT-DIP GALV.</u>	MADE BY <u>[Signature]</u>	JOB NO. <u>3451</u>
SPECIAL INSTRUCTIONS	DETAILS OF <u>ITEM #9</u>	SHEET NO. <u>11</u>

157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200

157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200

BILL OF MATERIALS

ITEM NO.	MARK	NO. PCS	SHAPE	LENGTH	REMARKS
221.9	11R1 thru 4		75 2x2 x .156	1404 LF	
			75 1/2 x 1/2 x 3/16	2543 LF	
		324	1 3/4 x 1 3/4 x 1/4	0-6"	
		648	3/8 THUNDERBOLT	0-2 3/4"	



(6) LAYOUTS - AS SHOWN
(12) LAYOUTS - OPP. HAND

FOR APPROVAL ONLY

"It is hereby certified that the (material) (equipment) shown and marked in this submittal, shop drawings, catalog cut(s), etc., and approved/proposed to be incorporated into Contract Number W62470-81-C-1049, is in compliance with the contract drawings and specifications, and can be installed in the allocated space, and is approved for use submitted for Government approval.

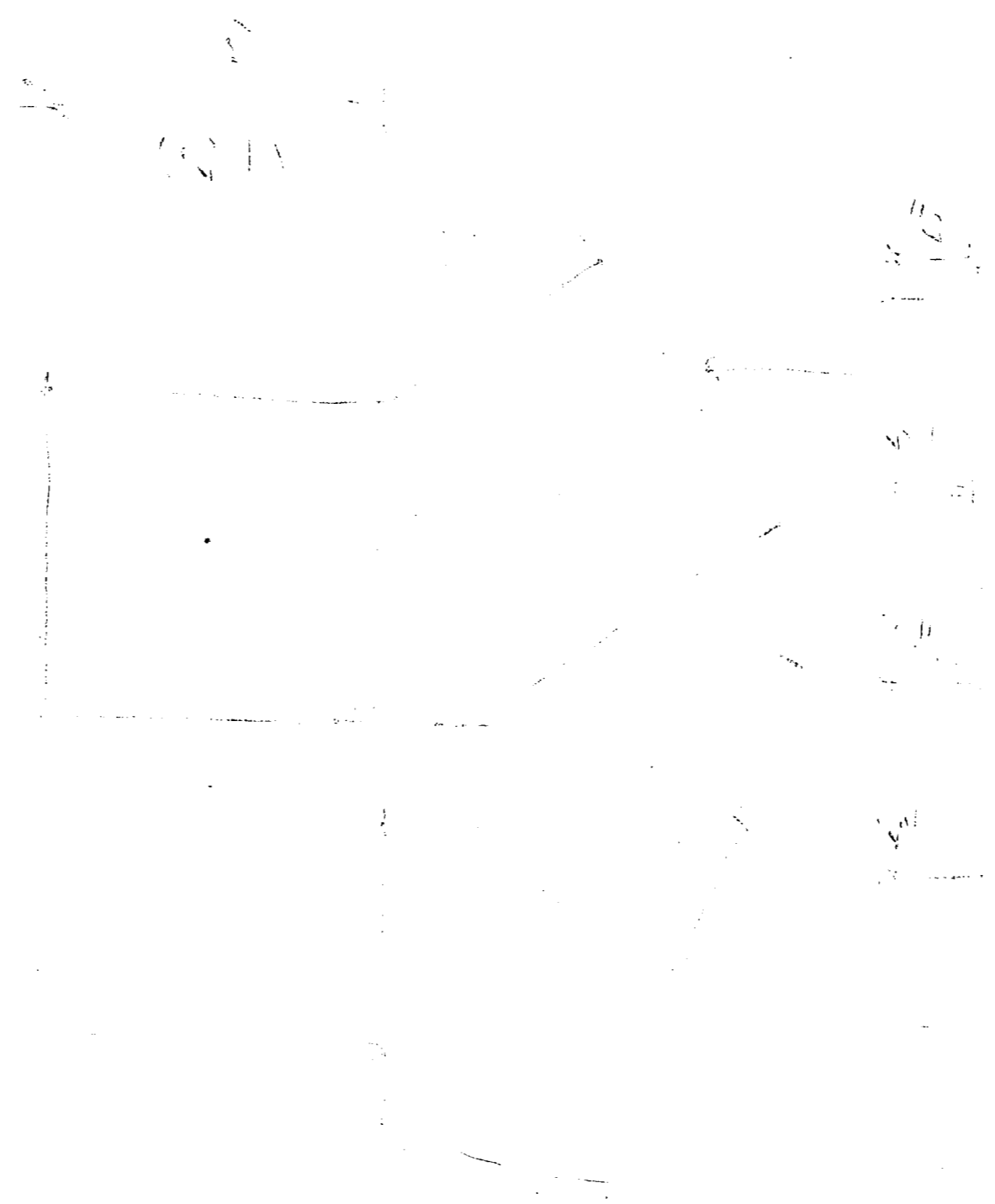
Authorized Reviewer: [Signature] Date: _____
Signature CQC Rep: [Signature] Date: 10/8/85

NO.	DATE	DESCRIPTION	REVISIONS

PRINTS 3 A	DELRAM-HUGHES CORPORATION ARCHITECTURAL METALS P. O. BOX 9677 GREENSBORO, N. C.	PROJECT UNACCOMP. ENLISTED PERSONNEL HOUSING CAMP LEJUNE, N. C.
ERECTOR BY OTHERS	ARCH/ENG. MBTB	CONTRACTOR WESTMINSTER CO. JACKSONVILLE, N. C.
PAINT HOT-DIP GALV.	MADE BY <u>[Signature]</u> DATE 5/85	JOB NO. 3451 SHEET NO. 12
SPECIAL INSTRUCTIONS	DETAILS OF ITEM #9	

1950 AUGUST 10

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INVESTIGATION AND IS NOT TO BE
REPRODUCED OR DISTRIBUTED OUTSIDE
THE OFFICE OF THE DIRECTOR OF THE
BUREAU OF INVESTIGATION.



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1977 JAN 19 10 30 AM '81