



City of Tacoma

Power Generation

ADDENDUM NO. 1

DATE: 09/19/2025

**REVISIONS TO:
RFB Specification No. PG25-0185N
Mossyrock Headgate Roller Chain**

NOTICE TO ALL BIDDERS:

This addendum is issued to clarify, revise, add to or delete from, the original specification documents for the above project. This addendum, as integrated with the original specification documents, shall form the specification documents. The noted revisions shall take precedence over previously issued specification documents and shall become part of this contract.

REVISIONS TO THE SUBMITTAL DEADLINE:

The submittal deadline remains the same.

REVISIONS TO THE SPECIFICATIONS:

Please see the attached drawings referenced in drawing No. MA520:

- Item 1: M27006-C
- Item 2: M27154
- Item 3: M27163
- Item 4: M27164
- Item 5: M27165

NOTE: Acknowledge receipt of this addendum by initialing the corresponding space as indicated on the signature page. Vendors who have already submitted their bid/proposal may contact the Purchasing Division at 253-502-8468 and request return of their bid/proposal for acknowledgment and re-submittal. Or, a letter acknowledging receipt of this addendum may be submitted in an envelope marked Request for Bids Specification No. PG25-0185N Addendum No. 1. The City reserves the right to reject any and all bids, including, in certain circumstances, for failure to appropriately acknowledge this addendum.

cc: Steve Belvin, Power Systems Engineer PE, Prin, Power Generation
Stefanie Hunt, Business Services Analyst, Power Generation

2/19/67

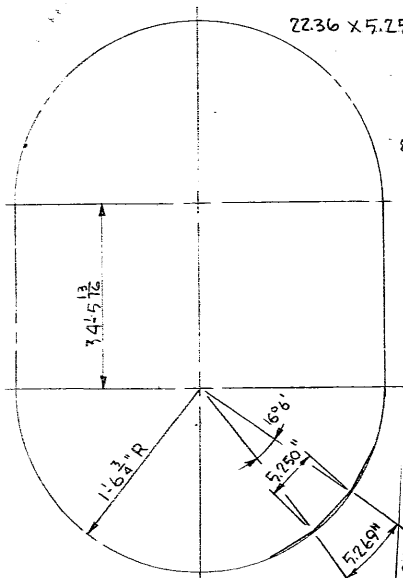
ITEM 1: M27006-C C660-12207

ITEM 4.3 MOSSYROCK
INTAKE GATESCAHILL
DATA SK # 546

$$\begin{aligned} \text{NOM CHAIN LGTH} &= 945.000'' \\ \text{NO OF LINKS IN ARC} &= 117.810'' \div 5.269'' \\ &= 22.36 \\ 22.36 \times 5.25'' &= 117.390'' \end{aligned}$$

$$\begin{array}{r} 945.000'' \\ - 117.390'' \\ \hline 827.610 \end{array}$$

$$\begin{aligned} 827.610 \div 2 &= 413.805 \\ &= 34' - 5 \frac{13}{16}'' \end{aligned}$$

M2-7006C**APPROVED**

as to general design and arrangement.
This approval does not relieve the contractor of responsibility for conformity to specifications and correct details and fit of parts when assembled.

Chicago, Ill.

HARZA ENGINEERING CO.

E-13 167 BY PEN

RECORD COPY**B.I. 4.3 SECT 8.3**

REVISIONS

1. E BOTTOM FIA CHANGED. DYL 2-14-66

2. GEN. REVISIONS DYL 5-5-66

3. HILL 6-3-66

4. REVISED PER APP'L PRINT DELETED VALVE DETAIL

5. CHANGED TOLER. ON LINK BAR HOLES TO REDUCE SHIM DEPTH. INDIC. FIELD SPICES. REVISED END R. DIM. TO SUIT B. LINK ROLLER CHAIN.

6. TRANSFERRED DET. OF SEAL DET. TO D 47. REVISED WITH CORRECT SEAL. REVISED FT. LOG DET. HILL 8/25/64

7. CHANGED H.H. FOR ALL PLATE HILL 9/16/66

8. CORRECTED PER APP'L. PRINT DATED 7-23-66 & 7-30-66

9. ALSO REVISED SPACING FROM 4" TO 4 1/2" FOR RUBBER SEAL FIRMNESS. 10-7-66 JEL

10. COMPLETED HOISTING LUG DETAIL.

11. REVISED DIMENSIONS OF ROLLER TRACK LENGTH & WIDTH @ SEC. A-A.

12. CHANGED WING IS TO 6 X 6 X 3/4 TRACK 12 TO 10 1/2 & GUIDE BAR TO 2 1/2. ALSO CHANGED WSHR TO CUT WSHR. FOR TRACK SCREWS @ SEC. C-C.

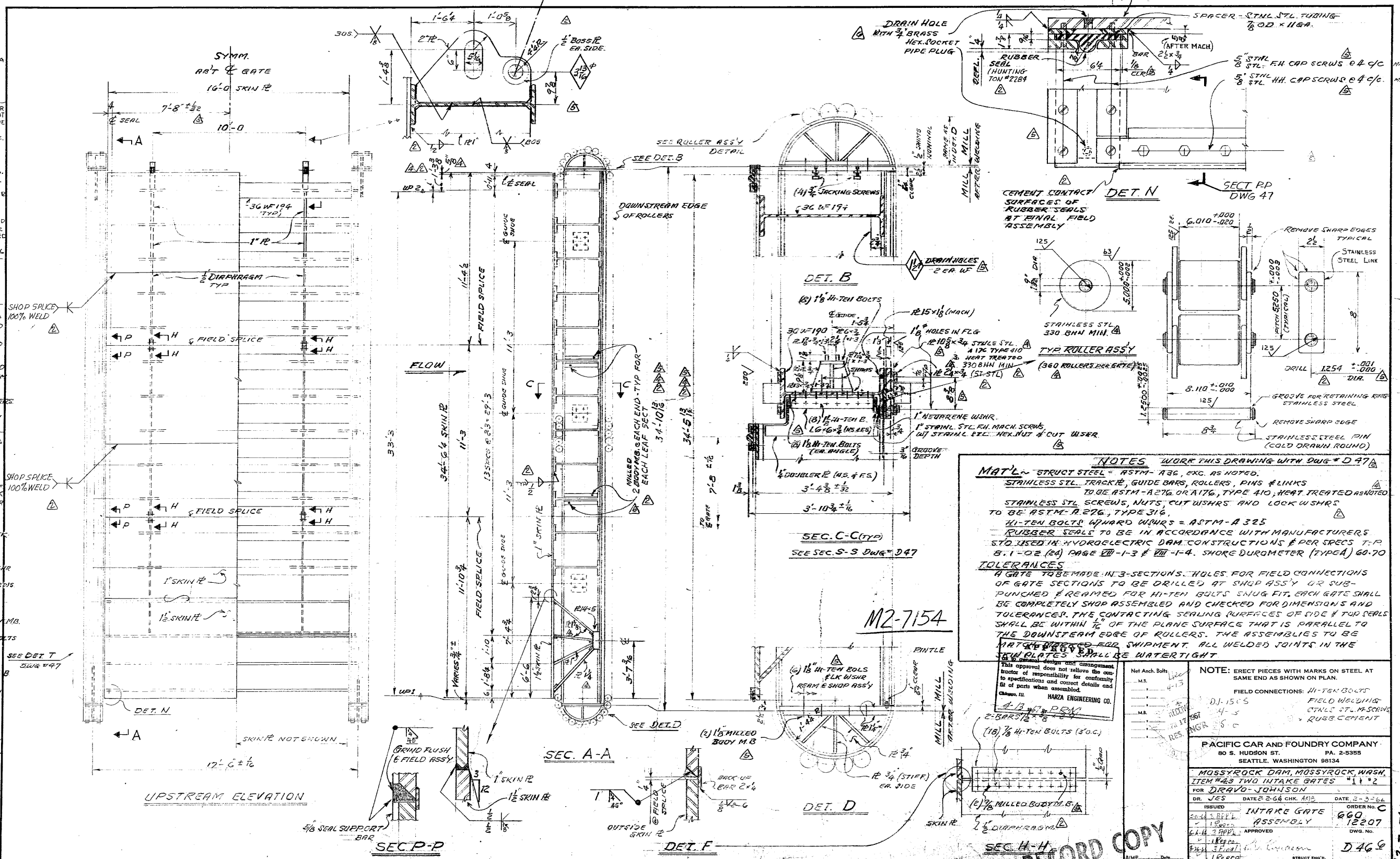
13. TAPER PIN CHANGED TO MILLED BODY M.B. @ SEC. H-H.

14. ADDED DRAIN HOLES @ DET. B.

15. REVISED DET. N. 12-14-66.

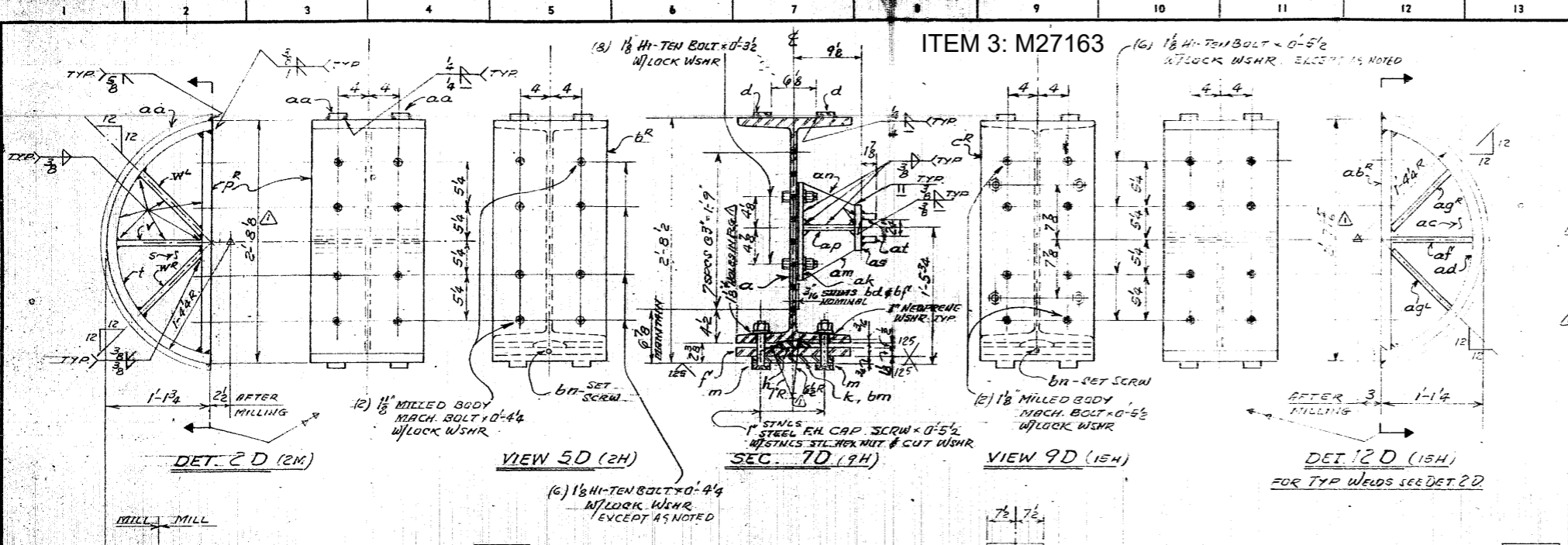
16. ADDED DRAIN HOLE @ DET. N. 2. 2. 67. JEL

17. CAHIL



RECORD COPY

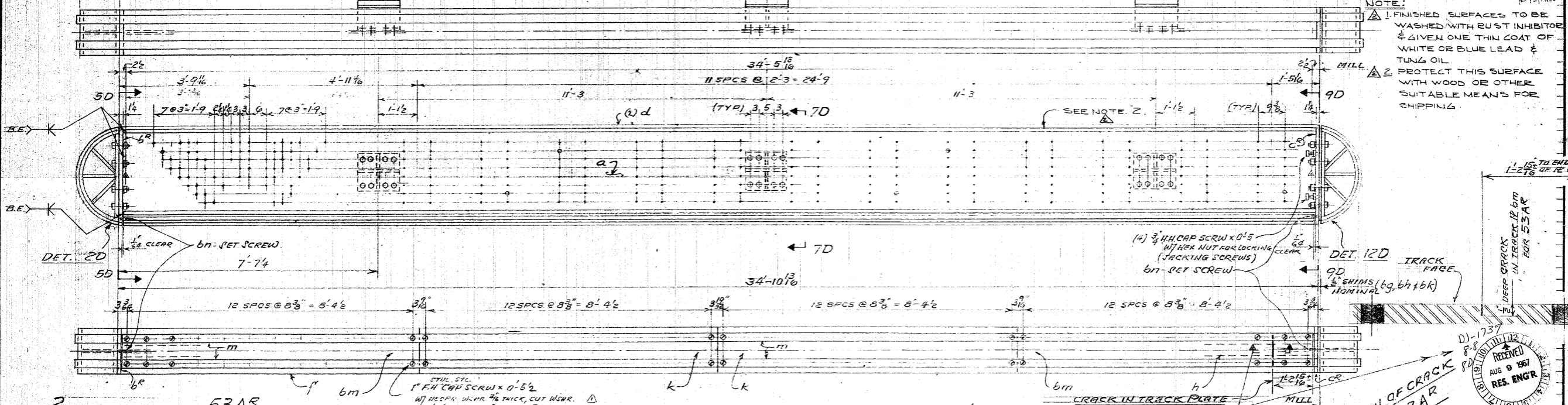
M2-7154



ITEM 3: M27163

BILL OF MATERIAL									
QTY	NO. TO SHIP	SHIP MARK	TOTAL NO. REQ'D	PIECE MARK	SIZE	LENGTH	REMARKS	WEIGHT	
62	2	53A ^R	4	a	30 WF 190	34.85	M25. MACH. @	190	26,364
63	2	53A ^L	4	br	R 15 x 1/2	2.9	MILL	6.24	861
63			4	cr		2.9			
62			8	d	BAR 2 1/4 x 3/4	34.10	BAND	1.72	1,603
			4	f	R 15 x 1/4	34.85	M25	1.02	9,820
			4	h	BAR 4 1/2 x 3/4	34.85	M25	11.67	1,473
			8	k	STL R 10 1/2 x 1/8	8.8	M25	3.41	2,248
			8	bm		8.8		3.41	2,270
			16	m	STNLS BAR 2 1/2 x 1/4	34.10		5.76	1,473
63			4	s	R 15 x 1/2	2.5	MILL	6.78	762
			4	t	R 11 1/4 x 3/4	2.5	MILL	3.21	284
			4	l	R 15 x 1/4	3.8	MILL	3.21	970
			2	v	R 7 x 3/4	0.114		11.21	136
			16	w		0.114		11.21	272
64			8	aa	BAR 2 1/4 x 3/4	4.0	ROLL	1.78	184
63			4	ab	R 15 x 1/2	2.5	MILL	6.42	755
			4	ac	R 10 1/2 x 3/4	2.9	MILL	3.21	264
			4	ad	R 15 x 1/4	3.7	MILL	3.21	949
			8	af	R 7 x 3/4	0.108		11.21	180
			16	ag		0.108		11.21	178
64			8	ah	BAR 2 1/4 x 3/4	3.11	ROLL	1.78	180
			12	ak	R 13 x 3/4	1.3		3.71	506
			12	al	R 7 1/2 x 3/4	0.94	ROLL	11.21	85
			12	am		0.82		11.21	78
			12	an		1.3	PC	11.21	276
			12	as	BAR 1/2 x 3/4	1.3	PC	11.21	230
			24	at	R 1 1/2 x 3/4	1.3		11.21	150
							STL SHOP WELD		
							MILD SHOP WELD		
							SEL		
							CONTINUATION SEE LOWER		

NOTE:
 1. FINISHED SURFACES TO BE WASHED WITH RUST INHIBITOR & GIVEN ONE THIN COAT OF WHITE OR BLUE LEAD & TUNG OIL.
 2. PROTECT THIS SURFACE WITH WOOD OR OTHER SUITABLE MEANS FOR SHIPPING.



2 - AS SHOWN - MK 53A^R
 2 - OPP. HAND - MK 53A^L

- MAT'L:**
- STRUCT. STL. ASTM-A36 EXCEPT AS NOTED
 - STNLS STL. R (R #6m) = ASTM-A276, TYPE 410 HEAT TREATED 3308.H.N.
 - STNLS STL. BAR (m) = ASTM-A276, TYPE 410
 - STNLS STL. SCRWS, NUTS & CUT WSHRS = ASTM-A276, TYPE 316
 - HI-TEN BOLTS = ASTM-A325
 - LOCK WASHERS = COMM'L STD
 - NEOPRENE WASHERS = COMM'L STD
 - SET SCREWS = HARDENED STL COMM'L STD
 - MILLED BODY H. B. = COMM'L STD
 - CAP SCREWS = ASTM-A307 GR A OR B
 - HEX. NUTS = ASTM-A307

CONTINUATION OF BILL OF MATERIAL

QTY	DESCRIPTION	UNIT
8	bn SET SCREW 5/2 MACH	5
8	1 1/8" MILLED BODY MACH. BOLT 0-4 1/4 W/ LOCK WSHR	15
8	1 1/8" MILLED BODY MACH. BOLT 0-5 1/2 W/ LOCK WSHR	17
16	3/4" HI-TEN CAP SCREW 0-5 FULL THD	14
16	3/4" HEX. NUT	2
12	bd SHEET 13-1154 1.3	2
12	bf SHEET 13-1454 1.3	2
8	bg R 7 3/4 x 1/2 2.10 MILL	2
16	eh R 7 3/4 x 3/8 2.10	2
16	ek R 7 3/4 x 3/8 2.10	2
24	1 1/2" HI-TEN BOLT 0-5 1/2	2
24	1 1/2" HI-TEN BOLT 0-4 1/4	2
24	1 1/2" HI-TEN BOLT 0-5 1/2	2
160	1 1/2" LOCK WSHR	2
416	1 1/2" HI-TEN BOLT 0-5 1/2	2
416	1 1/2" HI-TEN BOLT 0-4 1/4	2
416	1 1/2" HI-TEN BOLT 0-5 1/2	2
416	1 1/2" HI-TEN BOLT 0-4 1/4	2

THIS DRAWING MADE TO SHOW LOCATION OF CRACK IN ONE TRACK PLATE 6m

REV. DATE DESCRIPTION BY

Net Field Bolts
 M25
 16-Ten Bolt
 10-Ten Bolt
 10-Ten Bolt
 10-Ten Bolt

RECEIVED OCT 19 1967 RES. ENGR

RECEIVED AUG 9 1967 RES. ENGR

REPAIR OK BY MRE 1723 OCT 11 1967

INSPECTION SUBJECT TO NOTES

NOTED OPEN HOLES EXCEPT AS NOTED

END AND EDGE DISTANCE EXCEPT AS NOTED

SPACING NOT SHOWN

PAINT: NO SHOP PAINT

(M2-7163)

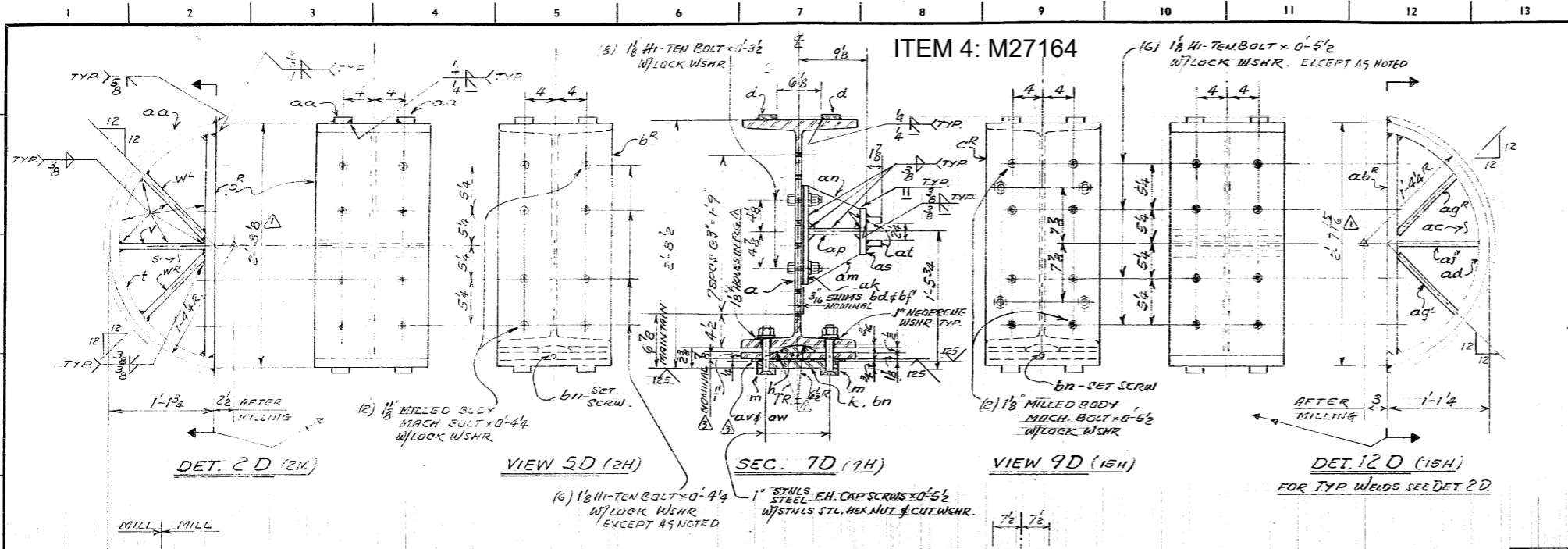
PACIFIC CAR AND FOUNDRY COMPANY
 80 S. HUDSON ST. RO 247440
 SEATTLE, WASHINGTON 98134

MOSSY ROCK DAM, MOSSY ROCK, WASH
 ITEM # 3 TWO INTAKE GATES ST # 2
 FOR DRAYO - JOHNSON

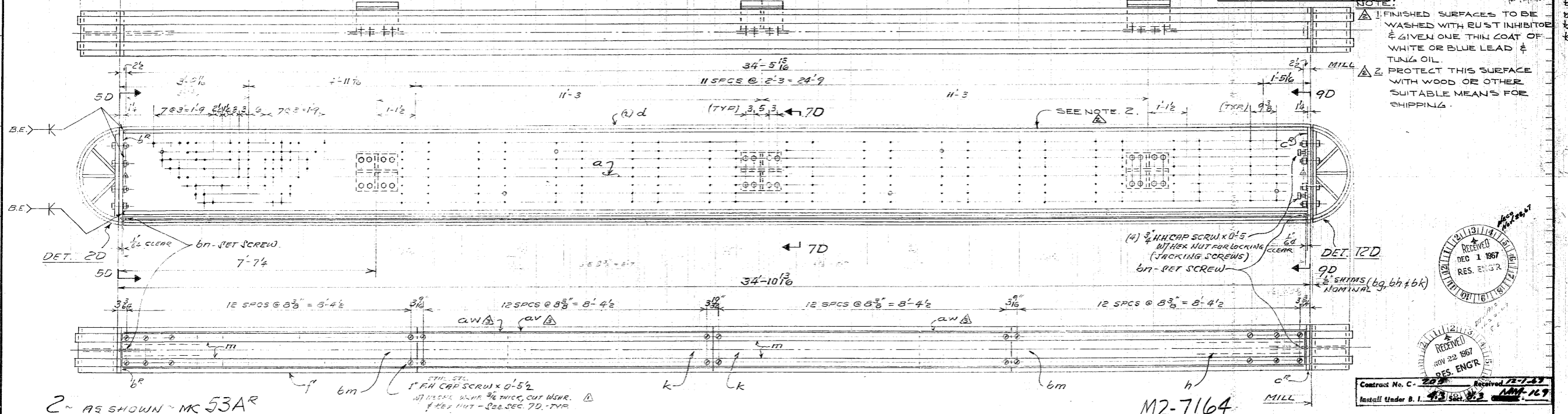
DR. JES DATE 10/14/67 CHK. CAHILL DATE 10/18/67

ISSUED 10/14/67 344
 ORDER NO. ROLLER TRACK C 660-
 ASSEMBLY 12207

APPROVED DWG. NO. 53²
 RoK STRUCT ENGR



BILL OF MATERIAL									
ITEM NO.	QTY	MATERIAL	SIZE	LENGTH	REMARKS	WEIGHT	TOTAL		
							NO.	WT.	VAL.
62	2	53AR	4 a	30 W 190	34.85	M2E. MACH. @	190		26.364
63	2	53A	4 b	R 15 x 12	2.98	MILL	6.22		361
63	4	c	8	2.98					861
62	8	d	4	BAR 24 x 3/4	34.10	BEAD	1.74		1.603
	4	e	4	R 15 x 3/4	34.83	MILL			6.243
	4	f	4	BAR 24 x 3/4	34.83	W/GR	11.08		1.53
	8	g	8	SHS R 10 3/8 x 3/8	8.83	Y	3.41		2.248
	8	h	8	SHS R 10 3/8 x 3/8	8.83	Y	3.41		2.248
	8	bm	8	SHS R 10 3/8 x 3/8	8.83	Y	3.41		2.248
	16	m	16	SHS R 10 3/8 x 3/8	17.49	Y	6.82		1.573
63	4	o	4	R 15 x 12	2.56	MILL	3.47		762
	4	p	4	R 15 x 12	2.56	MILL	3.47		762
	4	q	4	R 15 x 12	2.56	MILL	3.47		762
	4	r	4	R 15 x 12	2.56	MILL	3.47		762
	8	v	8	R 7 x 3/4	0.114		3.21		130
	16	w	16	R 7 x 3/4	0.114		3.21		130
64	8	aa	8	BAR 24 x 3/4	34.4	ROLL	1.70		184
63	4	ab	4	R 15 x 12	2.56	MILL	6.43		755
	4	ac	4	R 10 3/4 x 3/4	2.47		3.21		264
	4	ad	4	R 15 x 14	3.33	ROLL	13.02		92.9
	8	af	8	R 7 x 3/4	0.103		3.21		130
	16	ag	16	R 7 x 3/4	0.103		3.21		130
64	8	ah	8	BAR 24 x 3/4	34.4	ROLL	1.70		184
	12	ak	12	R 13 x 3/4	1.3		3.21		50.6
	8	am	8	R 7 1/4 x 3/4	0.94	ROLL			8.5
	8	an	8	R 7 1/4 x 3/4	0.94	ROLL			8.5
	12	ap	12	R 13 x 3/4	1.3	PC.			216
	12	as	12	BAR 6 x 3/4	1.3	PC.	10.30		280
	24	at	24	R 1 1/2 x 3/4	1.3		31.71		150
	4	av	4	R 12 x 4	11.19	RES. CRST.			510
	8	aw	8	R 12 x 4	11.19	RES. CRST.			768
									615



2~ AS SHOWN ~ MK 53AR
 2~ OPP. HAND ~ MK 53A^L

MAT'L:
 STRUCT. STL. ASTM-A36 EXCEPT AS NOTED
 STNLS STL. R (R & bm) = ASTM-A276, TYPE 410, HEAT TREATED 330 B.H.N.
 STNLS STL. BAR (m) = ASTM-A276, TYPE 410
 STNLS STL. SCRWs, NUTS & CUT WSHRS = ASTM-A307, TYPE 316
 HI-TEN BOLTS = ASTM-A325
 LOCK WASHERS = COMM'L STD
 NEOPRENE WASHERS = COMM'L STD
 SET SCREWS = HARDENED STL. COM'L STD
 MILLED BODY M. B. = COMM'L STD
 CAP SCREWS = ASTM-A307 GR. A OR B
 HEX. NUTS = ASTM-A307
 COLD FIN. STL. = C1018 (THK. TOL: +.005)

CONTINUATION OF BILL OF MATERIAL					
63	8	bn	1/8" HI-TEN BOLT x 0-3/2	W/LOCK WSHR	EXCEPT AS NOTED
	8		1/8" MILLED BODY MACH. BOLT x 0-4/4	W/LOCK WSHR	EXCEPT AS NOTED
	8		1/8" HI-TEN BOLT x 0-5/2	W/LOCK WSHR	EXCEPT AS NOTED
	16		3/4" HI-TEN BOLT x 0-5	W/LOCK WSHR	EXCEPT AS NOTED
	16		3/4" HI-TEN BOLT x 0-5	W/LOCK WSHR	EXCEPT AS NOTED
64	12	bd	SHEET 13 x 11 GA 1.3	SHIMS	
	12	bf	SHEET 13 x 11 GA 1.3	SHIMS	
	8	bg	R 7 3/4 x 3/4	2.10	MILL
	16	bh	R 7 3/4 x 3/4	2.10	
	16	bk	R 7 3/4 x 3/4	2.10	
	96		1/8" HI-TEN BOLT x 0-3/2		
	24		1/8" HI-TEN BOLT x 0-4/4		
	24		1/8" HI-TEN BOLT x 0-5/2		
160			1/8" LOCK WSHR		
416			1" FH. CAP SCREW x 0-5/2		
416			1" NEOPRENE WSHR		
416			1" STNLS STL. HEX. NUT & CUT WSHR.		
416			1" NEOPRENE WSHR		

REV.	DATE	DESCRIPTION	BY
3	10.19.67	MILLED 1/8" FILLED PLATE TO CONFORM WITH REVISED DIMENSIONS	PRM
2	7.27.67	ADDED NOTE 1 & 2 TO DWG	PRM
1	2.2.67	REVISED DIMENSIONS DOT 2 & 120 YES	PRM

APPROVED
 as to general design and arrangement. This approval does not relieve the contractor of responsibility for conformity to specifications and correct details and fit of parts when assembled.
 HARZA ENGINEERING CO.
 CHICAGO, ILL.
 11-1-67 PRM

PACIFIC CAR AND FOUNDRY COMPANY
 80 S. HUDSON ST. RO 2-7440
 SEATTLE, WASHINGTON 98134

MOSSY ROCK DAM, MOSSY ROCK WASH
 ITEM # 4.3 TWO INTAKE GATES SET 2 FOR DRAVO - JOHNSON

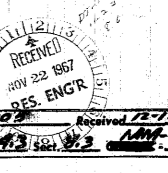
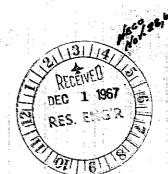
DR. JES DATE 10-10-67 CHK. CAHILL DATE 10/16/67

ISSUED BY JES
 CHECKED BY JES
 DESIGNED BY JES
 DRAWN BY JES
 APPROVED BY JES

ROLLERS TRACK C 660-
 ASSEMBLY 12207

DWG. NO. 53-3

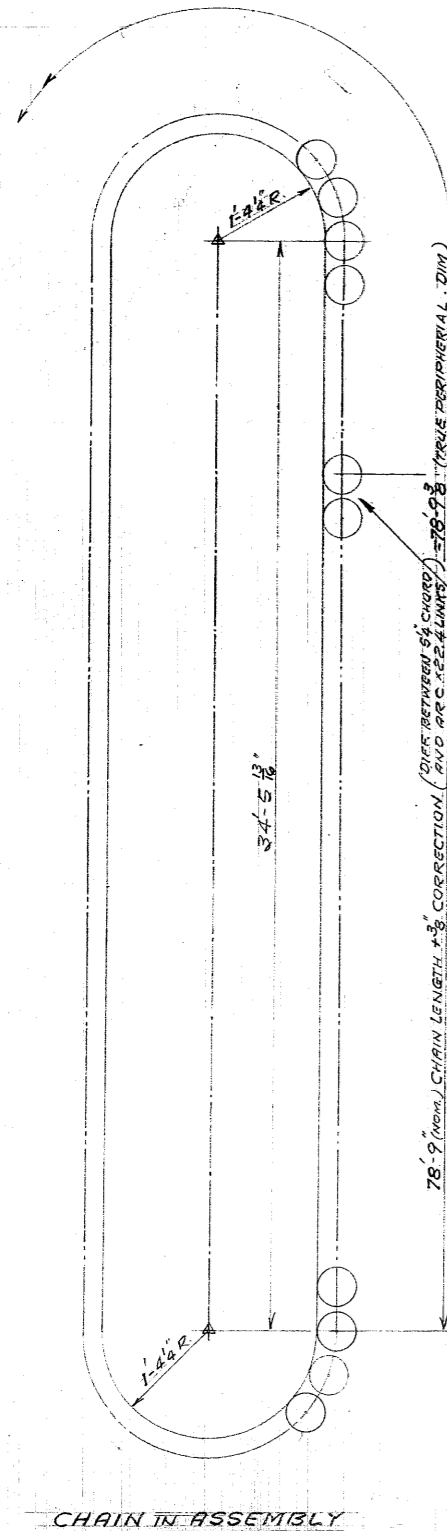
RECORD COPY



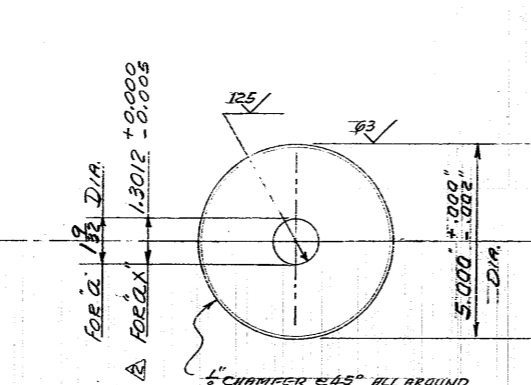
Contract No. C-208
 Install Under B. I. 43 Sec. 123

M2-7164

ITEM 5: M27165



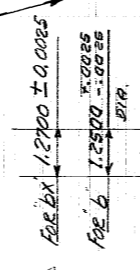
78'-9" (nom.) CHAIN LENGTH +3" CORRECTION (DIFF BETWEEN 5/8" CHORD AND ARC PERIPHERAL DIM.) -78'-9 3/8" (PERLE PERIPHERAL DIM.)



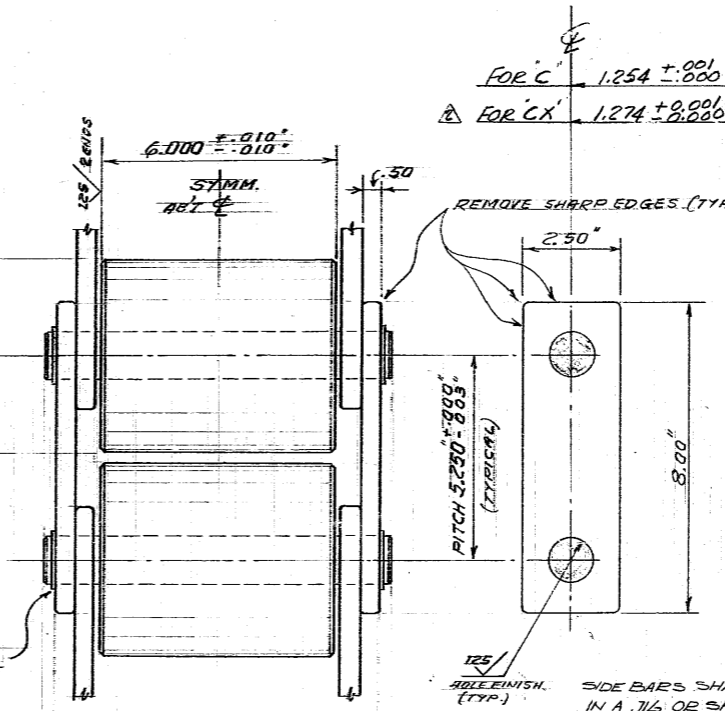
FOR A OR AX - STNLS STEEL BAR 5" φ × 0'-6" ASTM-A276, TYPE 410 HEAT TREATED, 330 BHN, MIN. (180 REQ'D PER CHAIN)

WALDES TRUARC RETAINING RING NO. 5100-125H STNLS STEEL COMM. STD.

DETAIL TYPICAL



FOR B OR BX - STNLS STEEL BAR 1 1/4" φ × 0'-8 3/4" MACH. ASTM-A276 TYPE 410 (COLD FIN.) (180 REQ'D PER CHAIN)



FOR C - 1.254 ± 0.001 DIA.
FOR CX - 1.274 ± 0.001 DIA.

REMOVE SHARP EDGES (TYP)
SIDE BARS SHALL BE DRILLED AND REAMED IN A JIG OR SHALL BE DRILLED, REAMED, MARKED, AND ASSEMBLED IN PAIRS TO SECURE EQUAL TENSION IN BOTH SIDES OF THE ASSEMBLED ROLLER TEAIN AND ACCURATE ALIGNMENT OF THE ROLLERS.

C OR CX - STNLS STEEL BAR 2 1/2" × 1/2" × 0'-8" (MACH.) ASTM-A276 TYPE 410 (180 PAIRS REQ'D PER CHAIN)

THESE DIA. TO BE CONCENTRIC WITHIN .005 T.I.R.

BILL OF MATERIAL								
NO. TO SHIP	SHIP MARK	TOTAL NO. REQ'D	PIECE MARK	SIZE	LENGTH	REMARKS	WEIGHT	
				FT. IN.	FT. IN.			
2	54A			CHAIN ASSY.		STNLS STEEL ASTM-A276 TYPE 410 MACH. T. 410		
		360	a	BAR 5"	0' 6"	PS #46		
		360	b	BAR 1 1/4"	0' 8 3/4"	PS #48		
		720	c	BAR 2 1/2" x 1/2"	0' 8"	PS #47		
		720		WALDES TRUARC RETAINING RING NO. 5100-125H		COMM. STD.		
SHIP SPARE PARTS:								
20			a	BAR 5"	0' 6"			
20			b	BAR 1 1/4"	0' 8 3/4"			
40			c	BAR 2 1/2" x 1/2"	0' 8"			
40				WALDES TRUARC RETAINING RING NO. 5100-125H				
2	54AX			CHAIN ASSY.		STNLS STEEL ASTM-A276 TYPE 410 MACH. T. 410		
		360	CX	BAR 5"	0' 6"	PS #46		
		360	BX	BAR 1 1/4"	0' 8 3/4"	PS #48		
		720	CX	BAR 2 1/2" x 1/2"	0' 8"	PS #47		
		720		WALDES TRUARC RETAINING RING NO. 5100-125H		COMM. STD.		
SHIP SPARE PARTS:								
10			CX	BAR 5"	0' 6"			
10			BX	BAR 1 1/4"	0' 8 3/4"			
20			CX	BAR 2 1/2" x 1/2"	0' 8"			
20				WALDES TRUARC RETAINING RING NO. 5100-125H				

MAT'L SPECS:
 STNLS STEEL ASTM-A276, TYPE 410
 HEAT TREATED, 330 BHN, MIN.
 STNLS STEEL ASTM-A276, TYPE 410
 COLD FINISHED
 STNLS STEEL ASTM-A276, TYPE 410

NOTES:
 (1) - THIS DIMENSION MUST BE MAINTAINED WITHIN THE LIMITS SHOWN.
 (2) - PACK CHAIN IN BOXES FOR SHIPPING.

REF:
 SPECS-SECT. VIII SECT. 8.3
 D.C.F.E. Co. DWG. 6660-12207-D 46 & 47

APPROVED
 Resident Engineer
 Mossyrock Date: 2-24-67
 Sign: [Signature]

RECORD COPY

STRAIGHT LENGTH OF CHAIN

2 - ROLLER CHAIN ASSEMBLY - MK 54A - FOR GATE NO. 2
 2 - DO DO DO - MK 54AX - FOR GATE NO. 1

REV.	DATE	DESCRIPTION	BY
1	8-28-65	4-54A CHANGED TO 2-54A & 2-54AX	CH/HL
2	8/3/67	2-54A, 2-54AX REVISED TO AS BUILT COND. E.R. CHANGED WORDING OF FOOTNOTE TO CLARIFY INTENT OF SPECS CHANGED DIM & LINE MAT'L PER LTR	CH/HL

CERT. WELDERS	INSPECTION	SUBJECT TO
RIVETS	OPEN HOLES	EXCEPT AS NOTED
END AND EDGE DISTANCE		EXCEPT AS NOTED
SPACING NOT SHOWN		
PAIN:	NONE	

PACIFIC CAR AND FOUNDRY COMPANY 80 S. HUDSON ST. RO 2-7440 SEATTLE, WASHINGTON 98134	
MOSSYROCK DAM - MOSSYROCK, WASH. ITEM #4.3 TWO INTAKE GATES STA 2 FOR DRAYO - JOHNSON	
DR. JES	DATE 2/24/67 CHK. CH/HL DATE 1/18/66
ISSUED	ORDER NO.
12-18-66 3 AM	ROLLER CHAIN C 660
11 11 11	ASST'D DETAILS 12207
2-24-67	APPROVED
2-24-67	ROK
2-24-67	DWG. NO. 54A

Secd 8.3 B1.4.3

M2-7165