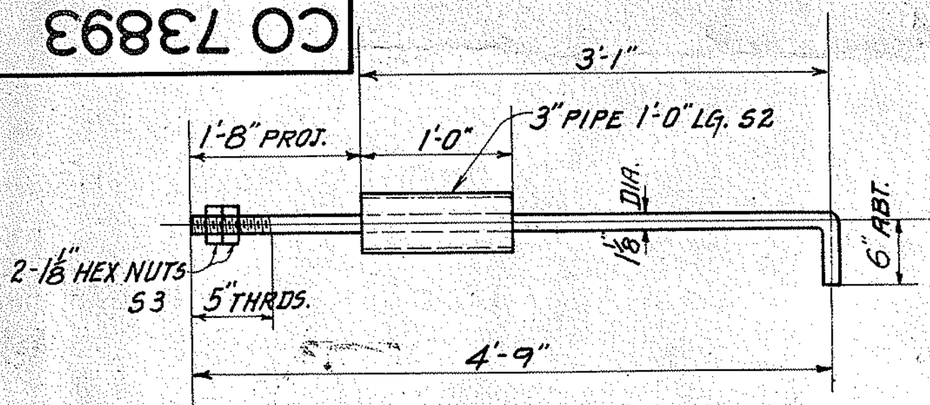
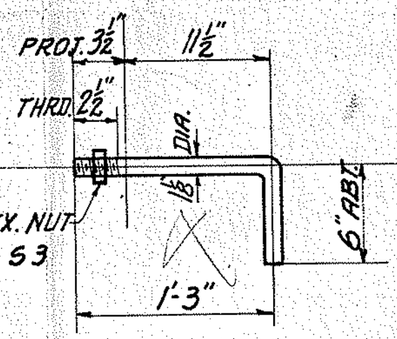
CO 73893



ROD 1⅛" H.R.S. x 5'-3" LG. S1; 16 REQ'D.

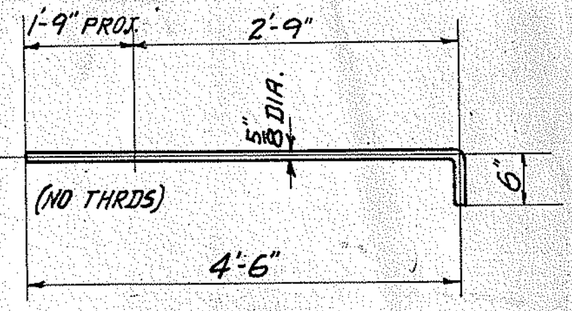
(END TILT ROLLERS)



ROD 1⅛" H.R.S. x 1'-9" LG. S13

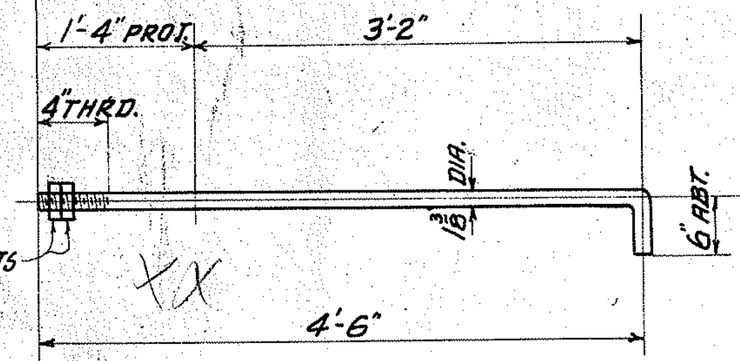
10 REQ'D.

(DOOR OPENER FRAME)



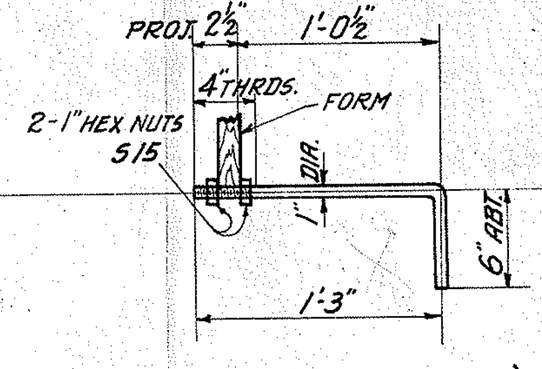
DOWEL ROD ⅝" H.R.S. x 5'-0" LG. S30

12 REQ'D.



ROD 1⅜" H.R.S. x 5'-0" LG. S4; 16 REQ'D.

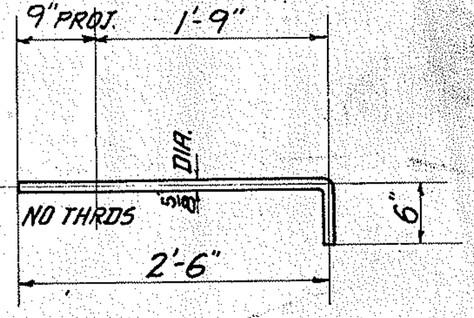
(DRUM SHAFT BRGS.)



ROD 1" x 1'-9" S14; 7 REQ'D.

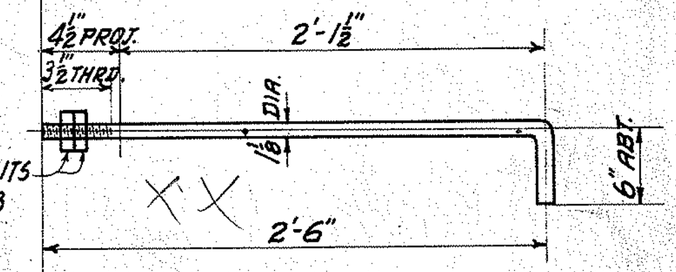
4 FOR DOOR OPENER FRAME G550

3 FOR GRATING SUPPORT KA370B



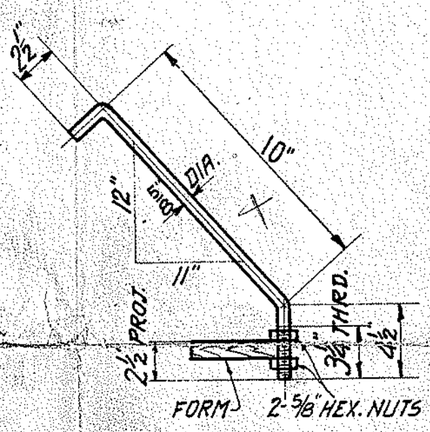
DOWEL ROD ⅝" x 3'-0" LG. S31

12 REQ'D.



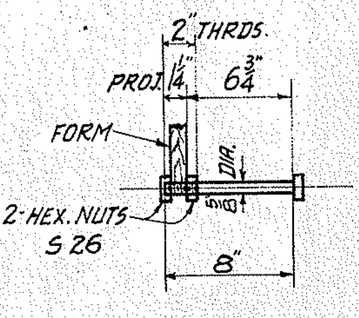
ROD 1⅛" H.R.S. x 3'-0" LG. S6; 10 REQ'D.

(REDUCER BASE)



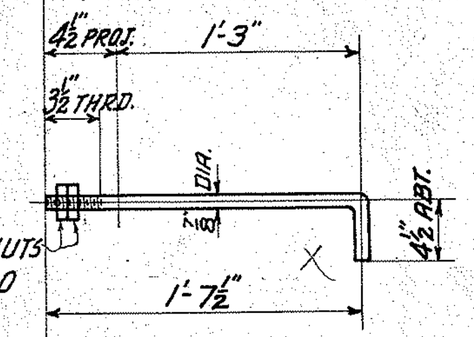
ROD ⅝" H.R.S. x 1'-5" LG. S18; 24 REQ'D.

(GRATING SUPP. FRAME KA350, KA351-P33)



M. BOLT ⅝" x 8" LG. S25; 10 REQ'D.

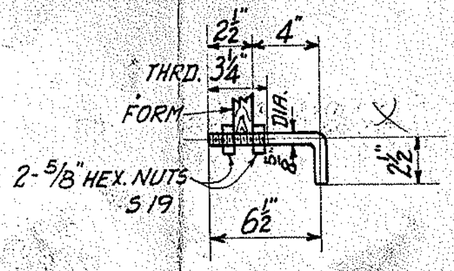
DOOR OPENER FRONT LE. AND BRACKET KA370B



ROD ⅞" H.R.S. x 2'-0" LG. S9; 16 REQ'D.

(8 END POSTS)

(8 END CLAMP TRACKS)



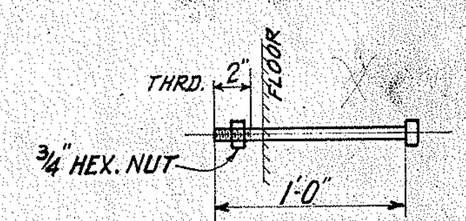
M. BOLT ¾" x 12" LG. S21

80 REQ'D. FOR HOPPER PER CO 73891

114 REQ'D. FOR HOPPER PER CO 72700

106 REQ'D. FOR HOPPER PER K-3557-Z2

108 REQ'D. FOR HOPPER PER K2952-Z4



M. BOLT ¾" x 1'-0" S27

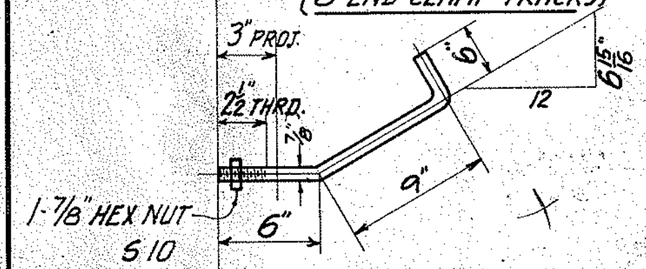
FOR HOPPER POSTS:

10 REQ'D. FOR HOPPER CO 73891

16 REQ'D. FOR HOPPER K-2952 Z4

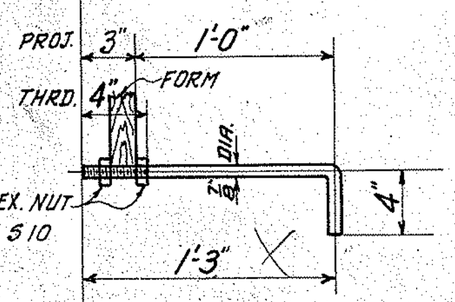
10 REQ'D. FOR HOPPER K-3557 Z2

8 REQ'D. FOR HOPPER CO 72700



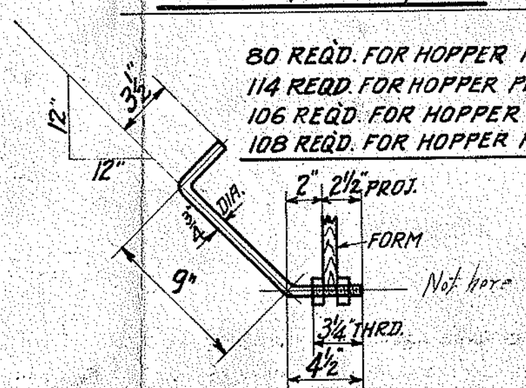
ROD ⅞" H.R.S. x 1'-9" S11; 6 REQ'D.

(END CLAMP TRACK)



ROD ⅞" H.R.S. x 1'-7" S12; 16 REQ'D.

(END POST BRACES)



ROD ¾" H.R.S. x 1'-5" LG. S23; 22 REQ'D.

FOR HOPPER PER CO 73891; NOT USED WITH HOPPER CO 72700 OR K3557 Z2 OR K2952 Z4

LINK-BELT COMPANY CHICAGO

DATE JUN 11 1952

ISSUED CUSTOMER TO

THIS PRINT VALID ONLY FOR PURPOSE INDICATED BELOW

- MAINTAINED ☐
- REFERENCE NOT TO BE USED FOR CONSTRUCTION ☐
- LIMITED TO ORDER NO. ☑
- SHOP
- PURCH.
- EST. NO.
- FIRST ISSUE ☐
- REPLACEMENT ☑
- DUPLICATE ☐
- REVISION ..... ADDED
- GROUP ..... ADDED
- PIECE ..... ADDED

K3825
K3756
K3589
K3577
K3557
K3292
K3170
K3137
K2992
K2982

LINK BELT GRAIN CAR UNLOADER 60 FT. LONG	REVISED: 11-12-46	2-25-47	1-20-48			DESIGNED	DRAWN W.E. ERICKSON	CHECKED W.R.M.	APPROVED	REFERENCE FOUNDATION DWG. CO. 73888+89
DETAILS OF FOUNDATION BOLTS						DATE 5-25-45	LINK-BELT COMPANY			CO 73893
						SCALE				

ORDER NO. K2802

Clennon & Kern, Chicago

DRAWING NUMBER B30

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

RECORDED BY NUMBER 027648

C073565

DRAWING NUMBER B31

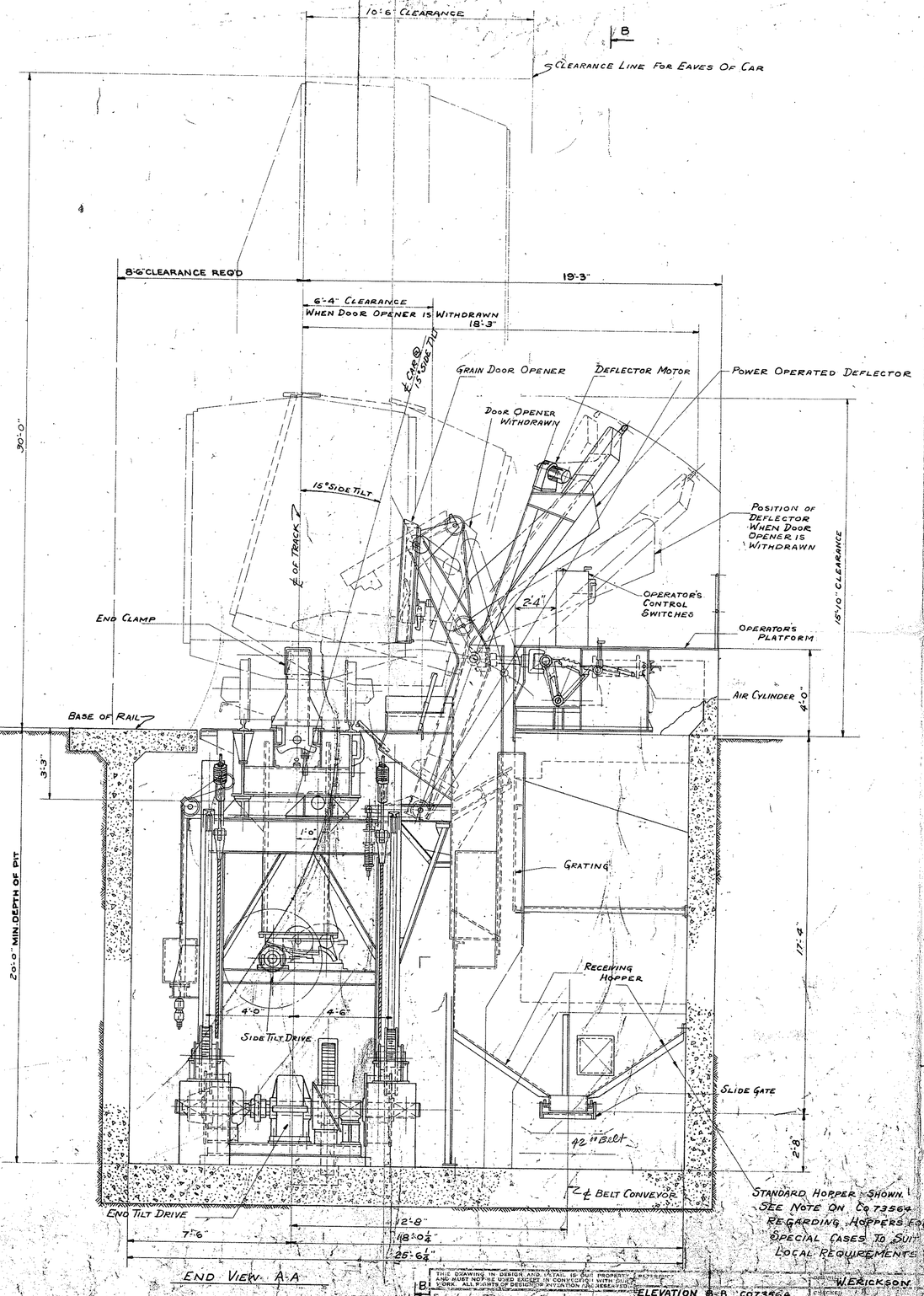
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REPRODUCTION PROHIBITED

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REPRODUCTION PROHIBITED



STANDARD HOPPER SHOWN. SEE NOTE ON C073564 REGARDING HOPPERS FOR SPECIAL CASES TO SUIT LOCAL REQUIREMENTS.

LINK-BELT COMPANY
DATE NOV 13 1951
ISSUED TO Contract
THIS PRINT IS ISSUED ONLY FOR PURPOSES INDICATED BELOW
NOTE
NO.
LIMITED ORDER
SHOP
PURCH.
EST. NO.
FIRST ISSUE
REPLACEMENT
DUPLICATE
REVISION ADDED
GROUP ADDED
PIECE ADDED

ORDER	INDEX DWG.	ORDER	INDEX DWG.
K3557	K3557-Y1	K2802	C068616
K3517	K3517-Y1	K2754	C068246
K3559	K3559-Y1	K2835	C072690
K3756	K3756-Y3	K2950	K2950-Y1
		K2982	K2982-Y1
		K2899	K2899-Y1
		K3009	K3009-Y1
		K3048	K3048-Y1
		K3170	K3170-Z1
		K3292	K3292-Y1

THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.

C073565	LINK-BELT COMPANY	ELEVATION B-B C073564	W.E.ERICKSON
		DATE 6-2-45	CHECKED
			APPROVED W.E.E.

LINK-BELT GRAIN CAR UNLOADER - 60 FT. LG.
GENERAL ARRANGEMENT - END VIEW
SCALE 3/8"-1'-0" DETAIL NO. KE8908
C073565

CO 72697

DRAWING NUMBER B32

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER ONLY

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER ONLY

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER ONLY

SECTION A-A

SECTION C-C

MAKE TWO END LOCK HOUSINGS
WELD - MARK F-1 R/L

SECTION "B-B"

SECTION "D-D"

MAKE TWO STRUTS
MARK F-95 R/L

MAKE TWO STRUTS
MARK F-90

MAKE TWO POSTS
MARK F-70 R/L

SECTION "E-E"

SECTION "F-F"

MAKE TWO END CLAMP TRACKS
MARK D-450 R/L (L.H. SHOWN)

MAKE TWO END CLAMP TRACKS
MARK D-451 R/L (R.H. SHOWN)

GENERAL ARRANGEMENT END LOCK MECHANISM { 52'-6" LG. UNLOADER CO 60251 / 60'-0" LG. UNLOADER CO 73591

LINK-BELT COMPANY
CHICAGO
DATE JUN 11 1952
ISSUED TO CUSTOMER
THIS PRINT VALID ONLY FOR PURPOSE INDICATED BELOW
MAINTAINED
REFERENCE
LIMITED TO ORDER NO.
SHOP
PURCH.
EST. NO.
FIRST ISSUE
REPLACEMENT
DUPLICATE
REVISION ADDED
GROUP ADDED
PIECE ADDED

K-2992
K-2982

TITLE: LINK-BELT GRAIN CAR UNLOADER
DETAILS-END POST, END LOCK HOUSING, END CLAMP TRACKS

REV.	DATE	DESCRIPTION OF REVISION
A		

DESIGNED | DRAWN W.E.E. | CHECKED | APPROVED | REFERENCE
71-23-45
SCALE 1"=1'-0"

LINK-BELT COMPANY

CO 72697

Gleaves & Knox, Chicago

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR
DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR
DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR
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REORDER BY NUMBER 075AR
DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR
DRAWING NUMBER
B555
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR
DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

1951 STORAGE ADDN.
HEAD HOUSE

EXISTING SAND TRACK

Top Slope 1/2"

75'-0"

37'-6"

37'-6"

8'-8" MIN

FUTURE TRACK #4

TRACK ℄ SHED

CAR DUMP TRACK #3

8'-8" MIN

9'-10"

30'-2"

12'-8"

42" BELT CONVEYOR "R"

12'-8"

10'-6"

23'-2"

16'-6"

8'-9" MIN

EXISTING TRACK #2

EXISTING CAR SHED

19'-0"

℄ DIKE

EXISTING TRACK #1

15 @ 7' = 105'

Top Slope 1/2"

240'-2"

9'-3"

BLDG LINE ℄

EXISTING WORKHOUSE

43'-8"

℄ CAR DUMP

243'-8"

200'-0"

OPERATIONAL PLAN

13'-3"

13'-3"

5'-8"

7'-7"

EL + 60.8

ROOF OF EXISTING CAR SHED ℄

EL + 31.00 ℄

GALLERY

TRUSS

TUNNEL

PILE C.O. EL. 6.25 ℄

+8.05

CAR DUMP

Base of Rail Elev.

40'-0"

EL+110

LONGITUDINAL SECTION

MARSHALL & BARR
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER

EDW F CARTER
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER

1952 CAR UNLOADER
PORT OF LONGVIEW
LONGVIEW, WASH

GENERAL LAYOUT

SCALE 1" = 1'-0"

EDW F. CARTER
CONSULTING ENGINEER
VANCOUVER SEATTLE

DR K.F.P. JUNE '52 PRINTED
CK [illegible] JUNE '52

1

MARSHALL & BARR A.[illegible] 3/1/16

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

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REORDER BY NUMBER 075AR

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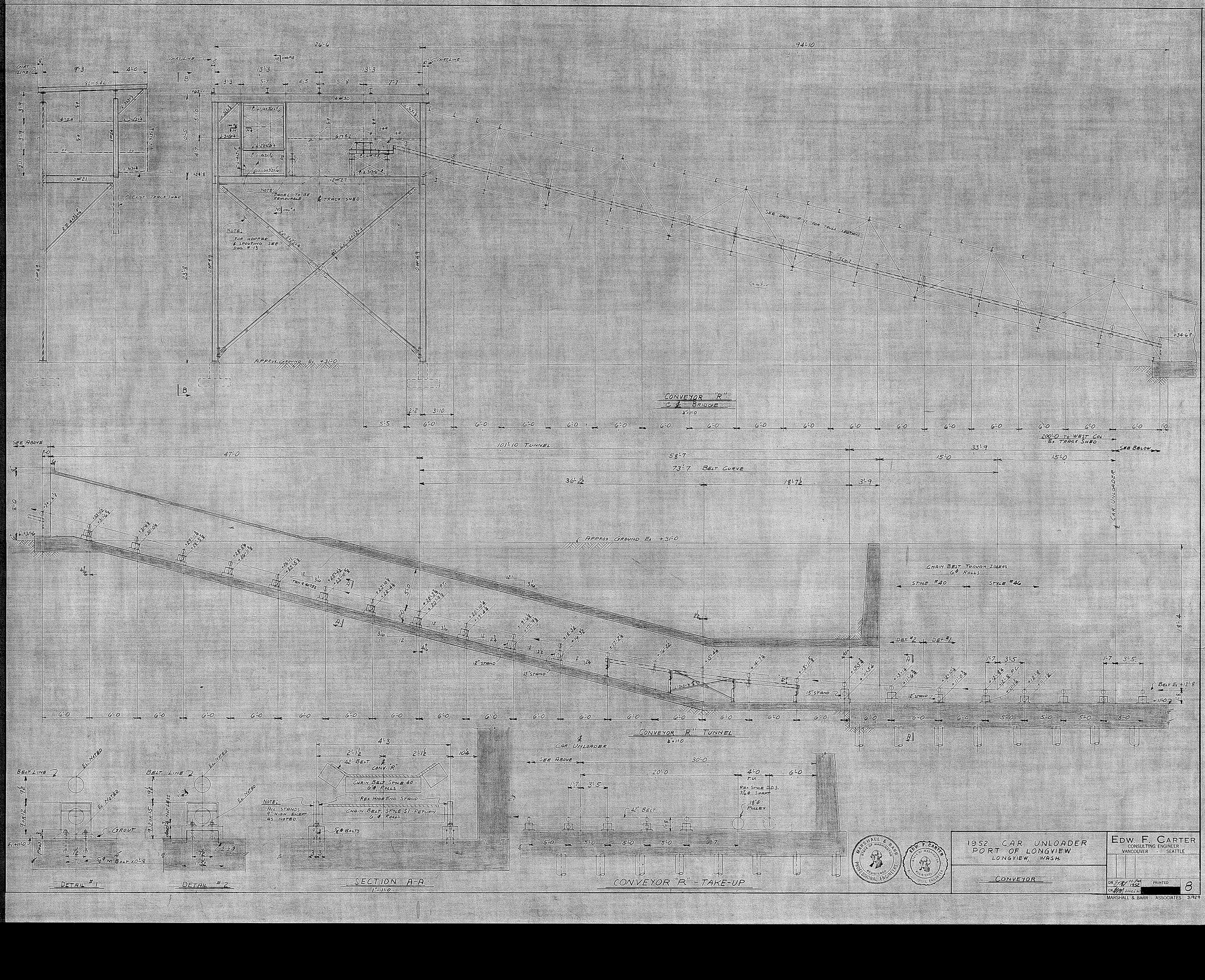
REORDER BY NUMBER 075AR

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

DRAWING NUMBER
B562
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIF
REORDER BY NUMBER 075AR



1952 CAR UNLOADER PORT OF LONGVIEW LONGVIEW, WASH.

CONVEYOR

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER - SEATTLE

DR. 11-7-52 PRINTED
CK.

8

MARSHALL & BARR · ASSOCIATES 31929

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

DRAWING NUMBER

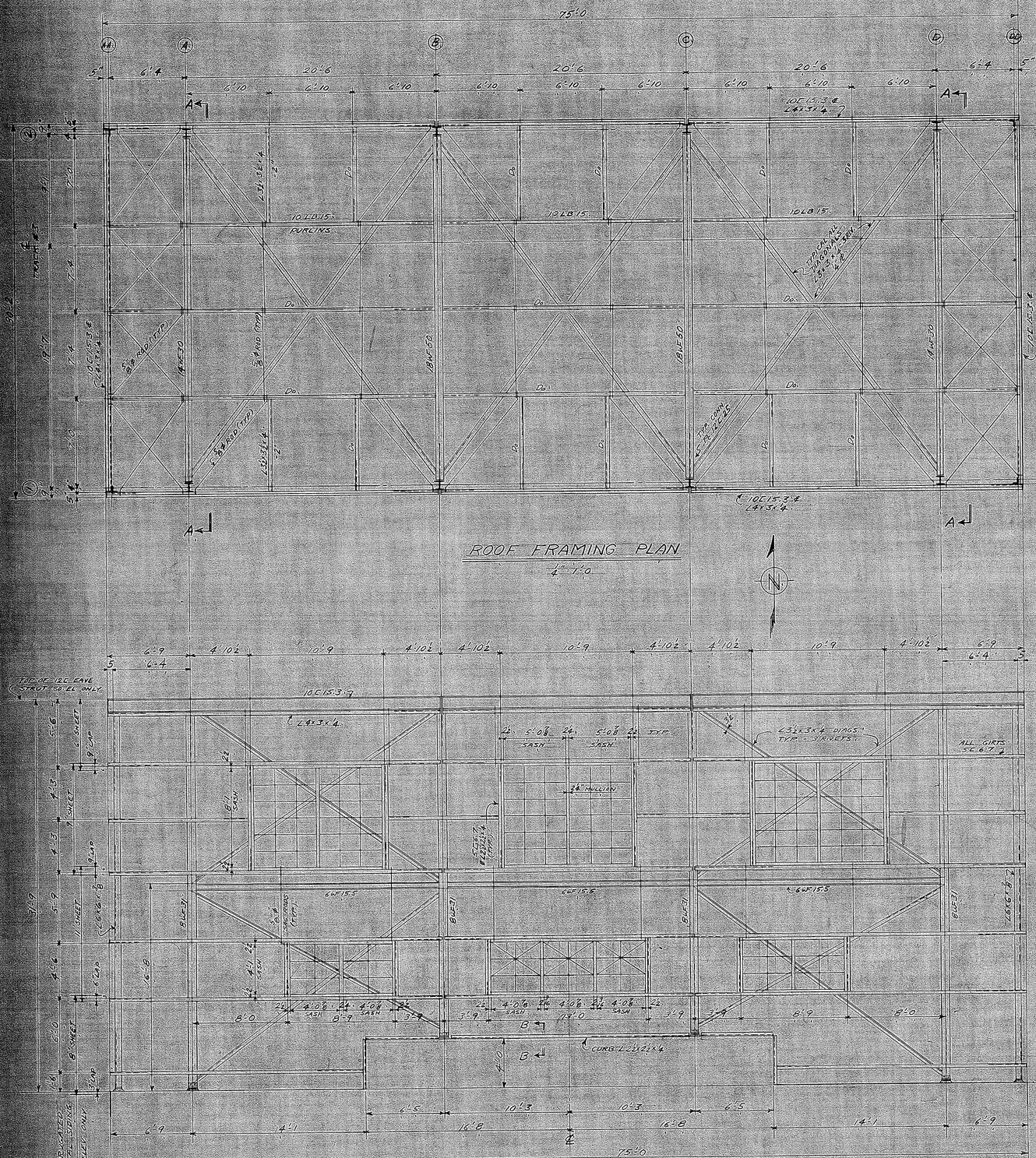
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

DRAWING NUMBER
B564

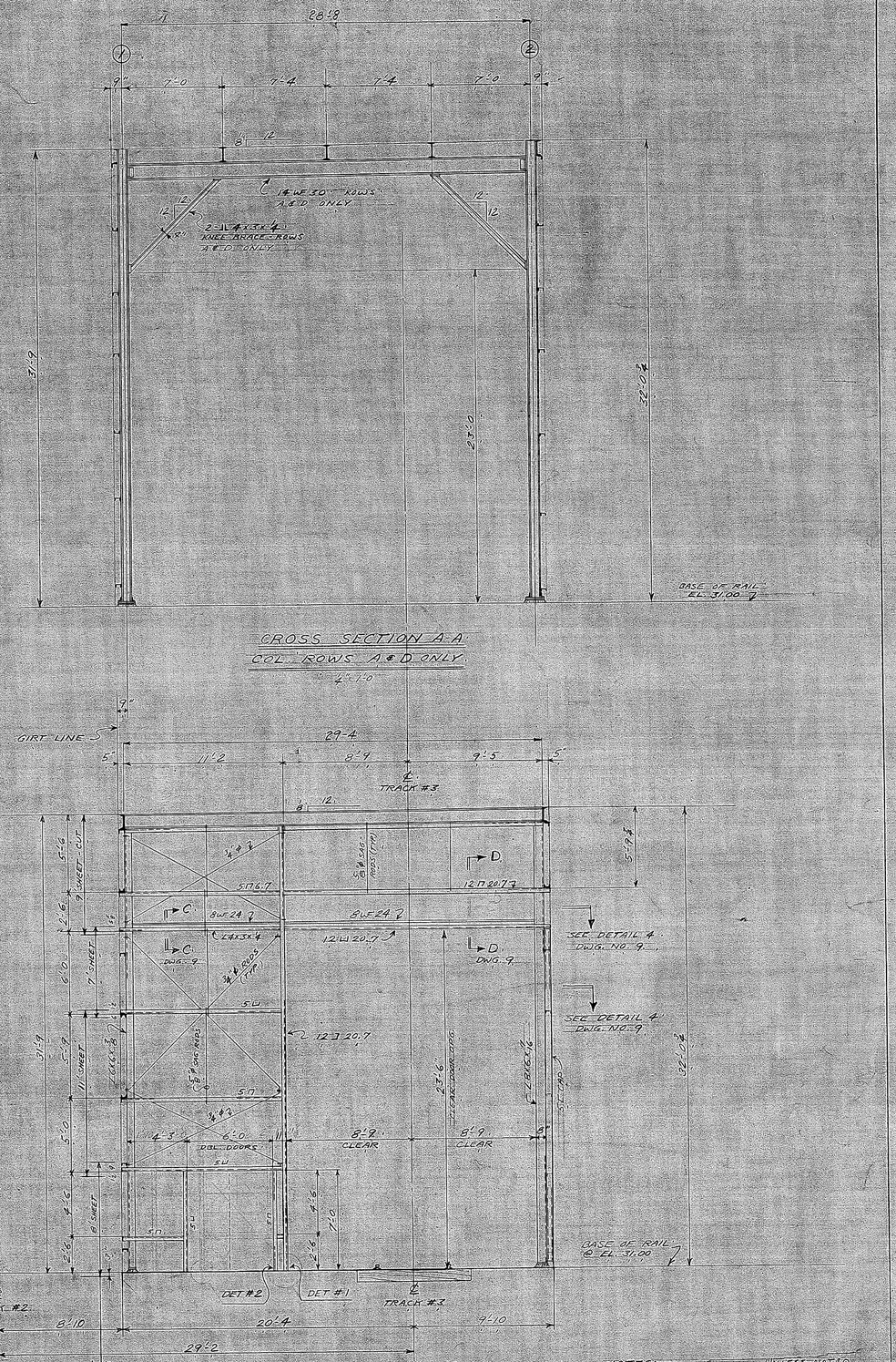
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIF
REORDER BY NUMBER 075AR



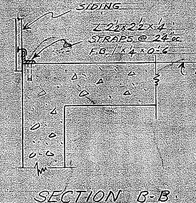
ROOF FRAMING PLAN
1" = 1'-0



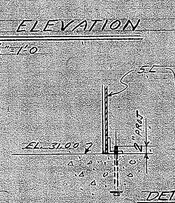
CROSS SECTION A-A
COL. ROWS A & D ONLY
¼" = 1'-0

EAST ELEVATION
WEST WALL ELEV. - OPP. HAND
¼" = 1'-0

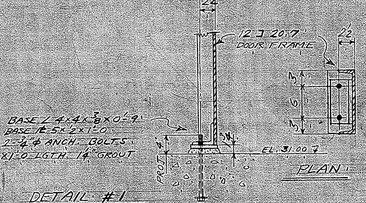
SOUTH ELEVATION
¼" = 1'-0



SECTION B-B
1" = 1'-0



DETAIL #2
1" = 1'-0



DETAIL #1
1" = 1'-0

PLAN
1" = 1'-0

NOTES: UNLESS NOTED
ALL GIRTS - SC 6.7 - SAG RODS - ⅝ ø
FENESTRA PIVOTED STEEL SASH BONDERIZED
AISC SERIES "B" ¾ ø RIVETS
STANDARD CONN. UNLESS NOTED
REFER TO DWG. NO. 5

MARSHALL & BARR PORT OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER

EDW. F. CARTER REGISTERED PROFESSIONAL ENGINEER

1952 CAR UNLOADER
PORT OF LONGVIEW
LONGVIEW, WASH.

SUPERSTRUCTURE
PLAN & SECTIONS
SCALE 1" = 1'-0

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER SEATTLE

DR. ART JUNE 1952
CK. [redacted] JUNE 52
PRINTED [redacted]

10

MARSHALL & BARR ASSOCIATES 3/9/14

DRAWING NUMBER

DRAWING NUMBER

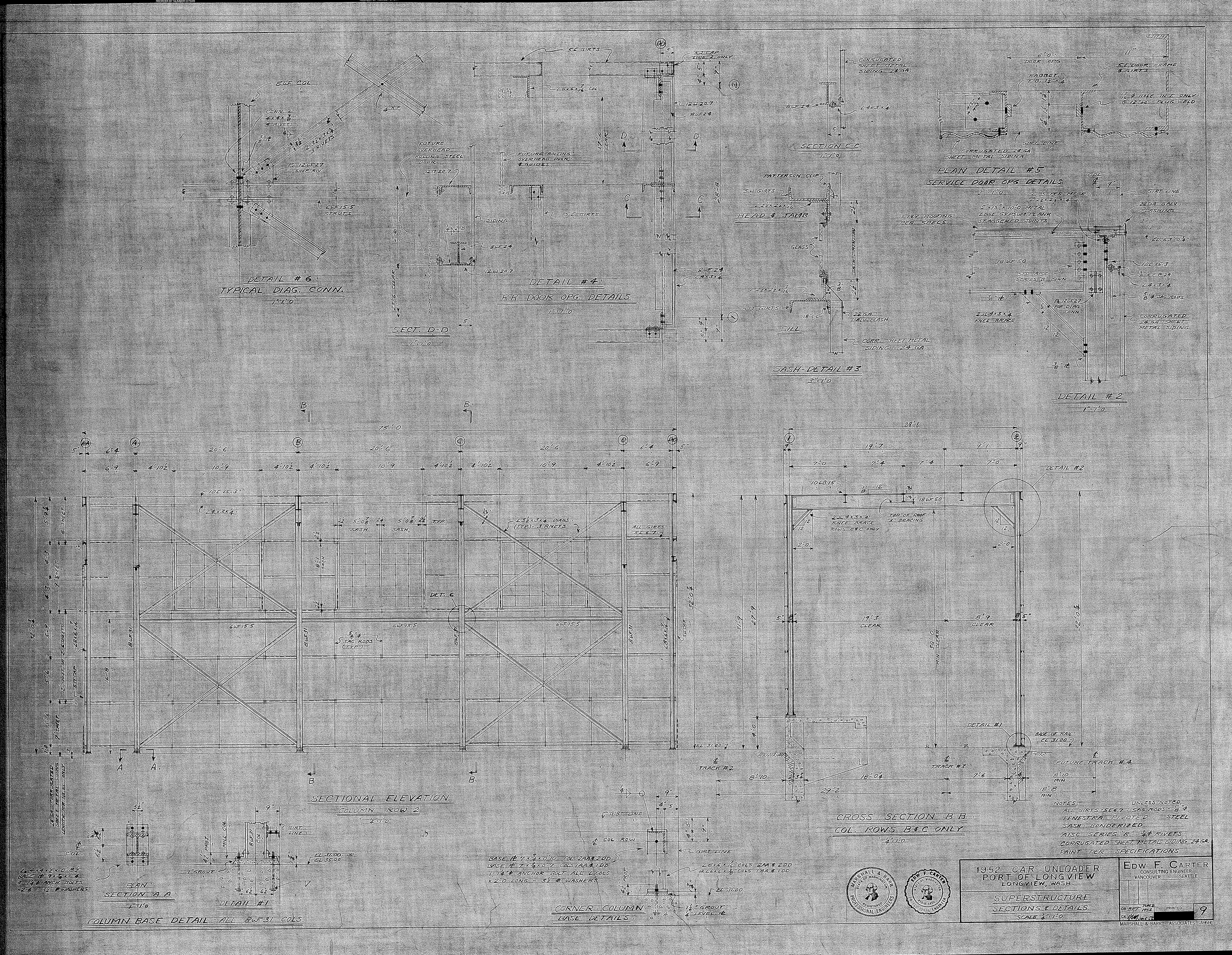
DRAWING NUMBER

DRAWING NUMBER

DRAWING NUMBER
B563

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR



1952 CAR UNLOADER
PORT OF LONGVIEW
LONGVIEW, WASH.

SUPERSTRUCTURE
SECTIONS & DETAILS
SCALE 1/4"=1'-0

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER - SEATTLE

DR. JUNE 1952 PRINTED [redacted] 9
CK. JUNE 52

MARSHALL & BARR - ASSOCIATES 31901

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

DRAWING NUMBER

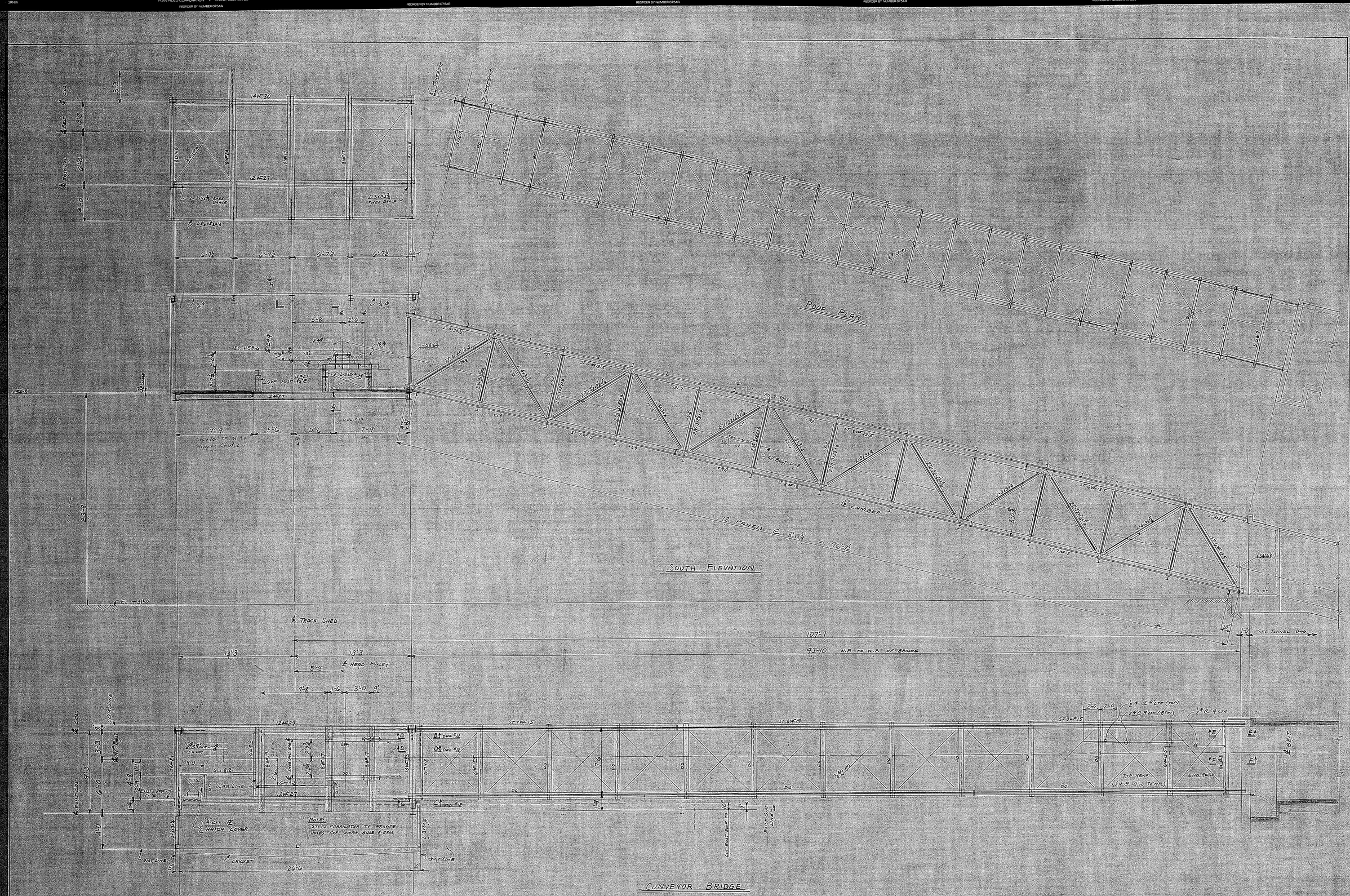
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

DRAWING NUMBER
B 565

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIF
REORDER BY NUMBER 075AR



NOTE:
FIELD CONN. ¾ Ø R.W.
SHOP CONN. ¾ Ø R.W. OR WELDED CONST.
FOR SECTIONS SEE DWG. #12

1952 CAR UNLOADER
PORT OF LONGVIEW
LONGVIEW, WASH

CONVEYOR BRIDGE
SCALE 1/4"=1'-0

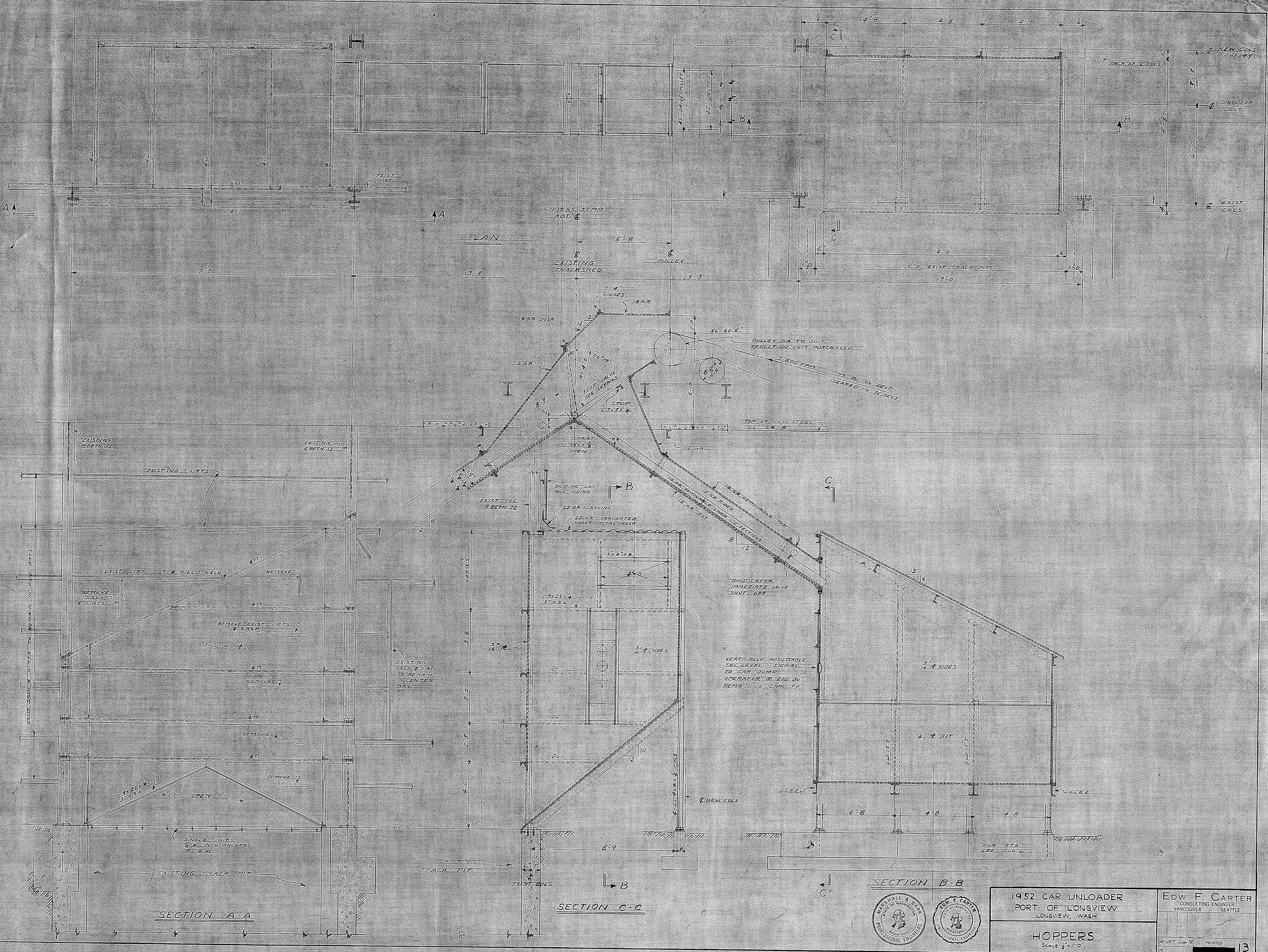
EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER SEATTLE

DR DW 11-7-52
CK
PRINTED
11

MARSHALL & BARR ASSOCIATES 31920

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

DRAWING NUMBER
B567
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR



1952 CAR UNLOADER PORT OF LONGVIEW LONGVIEW, WASH	EDW. F. CARTER CONSULTING ENGINEER VANCOUVER — SEATTLE
HOPPERS SCALE 1/2" = 1'-0"	DR. RT. JUN 52 PRINTED CK. 13

MARSHALL & BARR — ASSOCIATES 3/1923

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

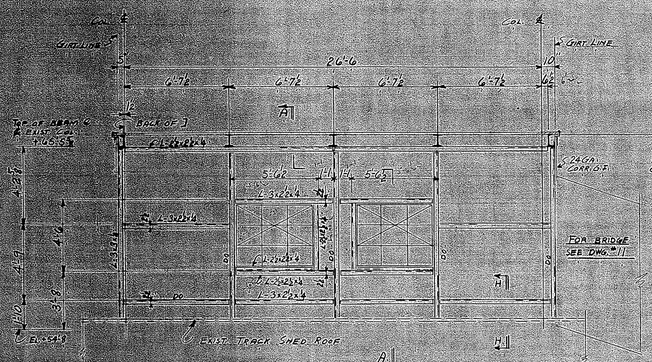
DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

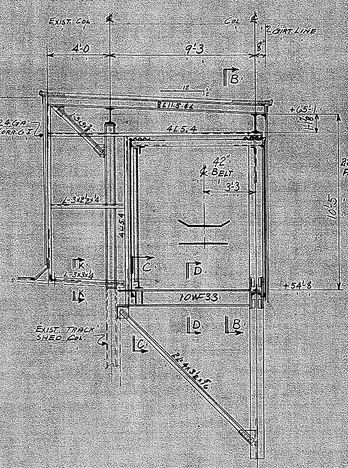
DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

DRAWING NUMBER
B 566
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

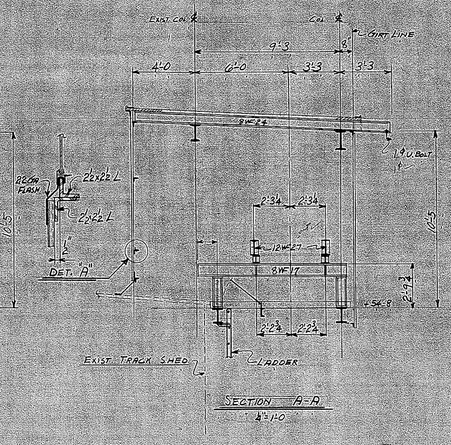
DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR



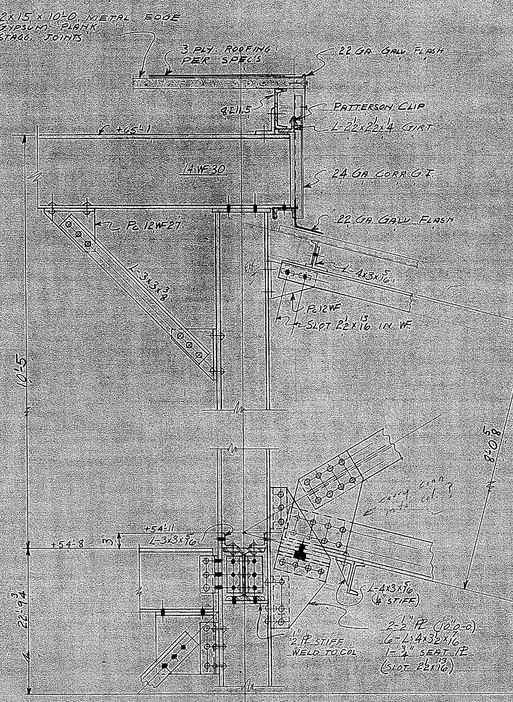
SOUTH ELEVATION OF GALLERY
3/8"=1'-0



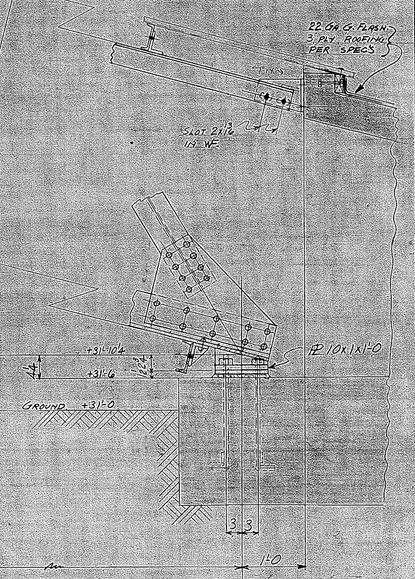
EAST ELEVATION
3/8"=1'-0



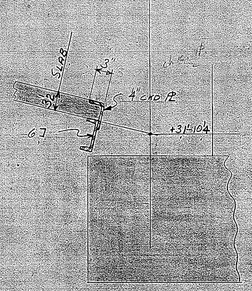
SECTION A-A
3/8"=1'-0



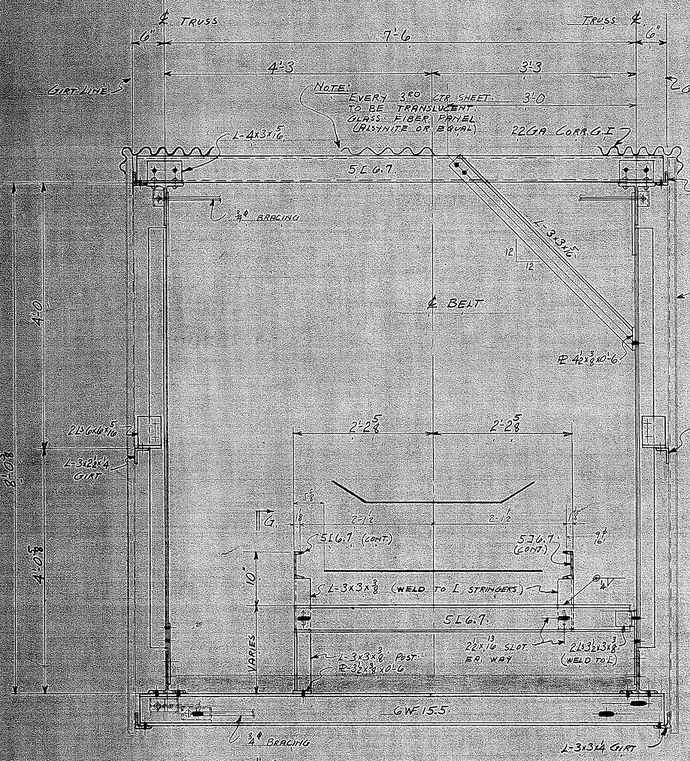
SECTION B-B
1"=1'-0



SECTION E-E

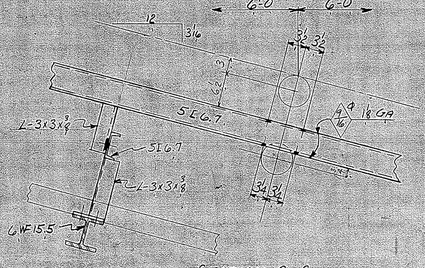


SECTION F-F

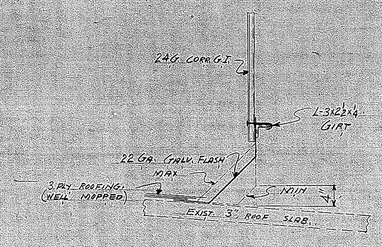


TYPICAL CROSS SECTION
THRU TRUSS
(LOOKING WEST)
SCALE 1"= 1'-0

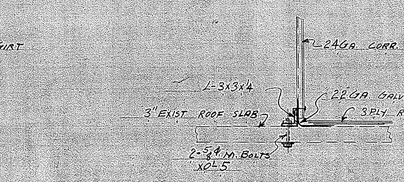
(LOOKING WEST)



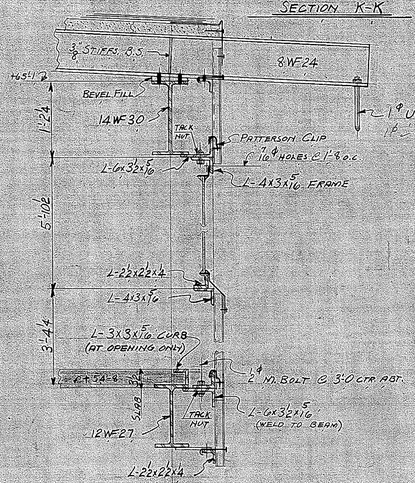
SECTION G-G
1"=1'-0



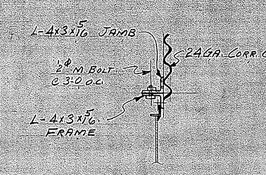
SECTION H-H



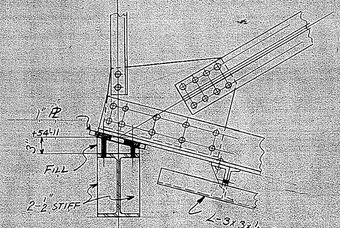
SECTION K-K



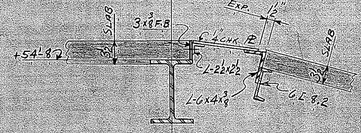
SECTION M-M
1"=1'-0



SECTION N-N
1"=1'-0



SECTION C-C
1"= 1'-0



SECTION D-D
1"=1'-0

TRUSS DETAILS

FOR SECTIONS A-A TO F-F SEE DWG. 11

MARSHALL & BARR PROFESSIONAL ENGINEERS STATE OF WASHINGTON REGISTERED

EDW. F. CARTER STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER LONGVIEW

1952 CAR UNLOADER
PORT OF LONGVIEW
LONGVIEW, WASH

BRIDGE & GALLERY DETAILS
SCALE - AS NOTED

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER · SEATTLE

DR 2/21/52
CK
PRINTED
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MARSHALL & BARR · ASSOCIATES
3/19/21

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

REORDER BY NUMBER 075AR

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

REORDER BY NUMBER 075AR

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DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

REORDER BY NUMBER 075AR

DRAWING NUMBER
B556

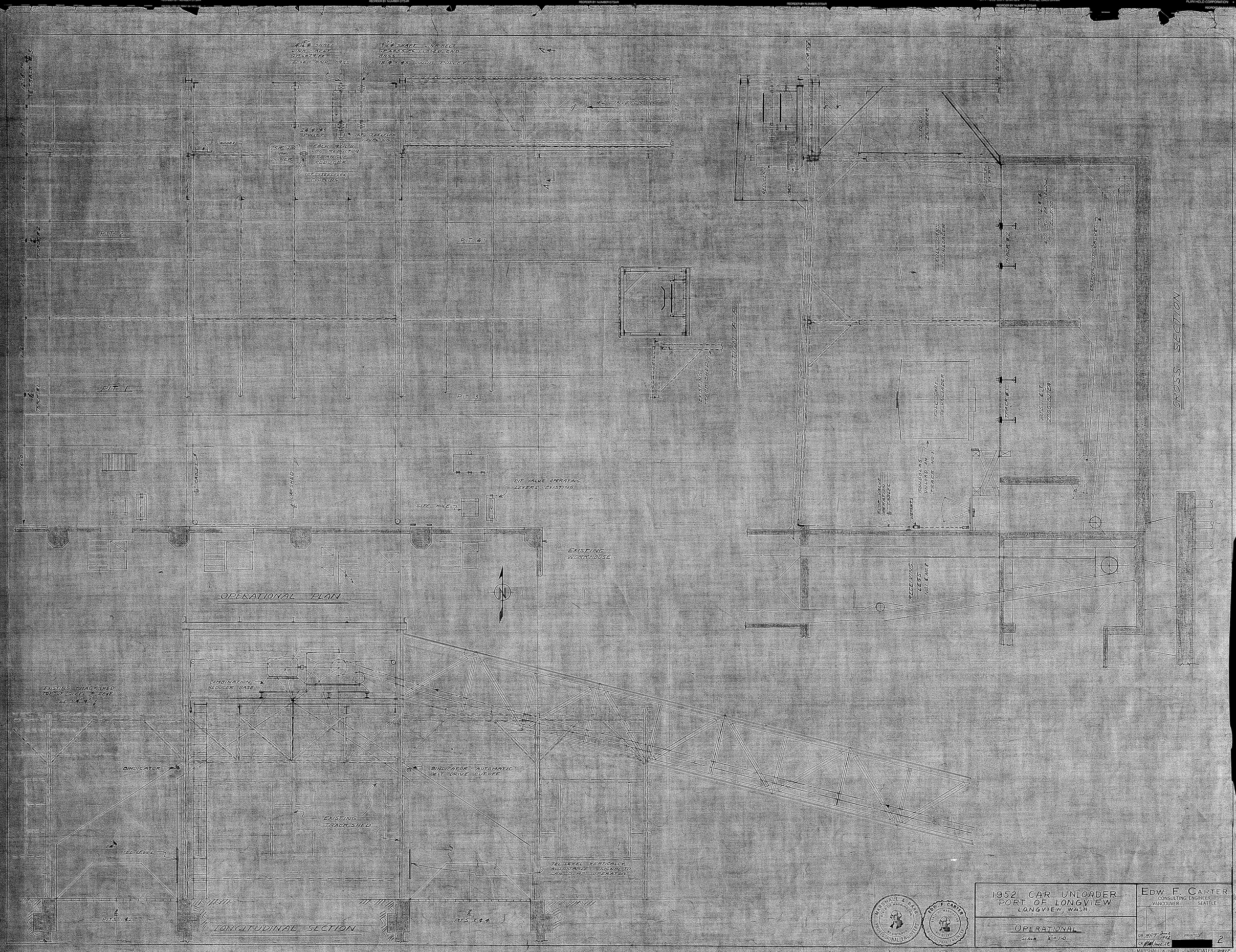
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

REORDER BY NUMBER 075AR

DRAWING NUMBER

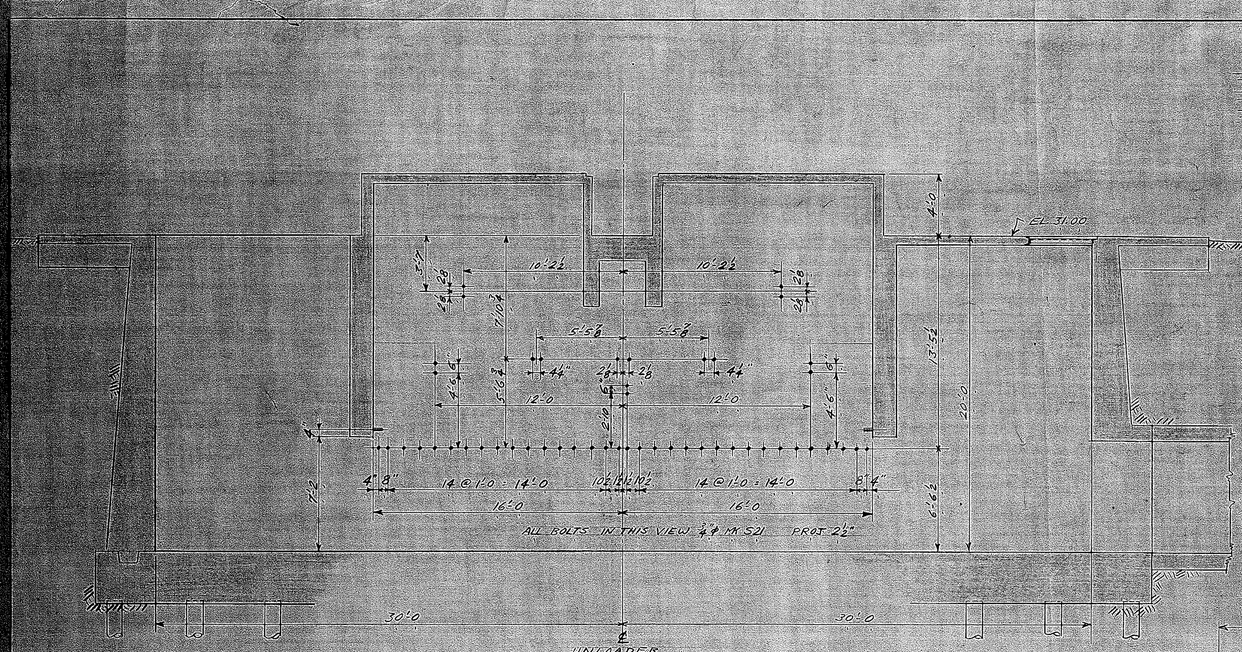
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

REORDER BY NUMBER 075AR

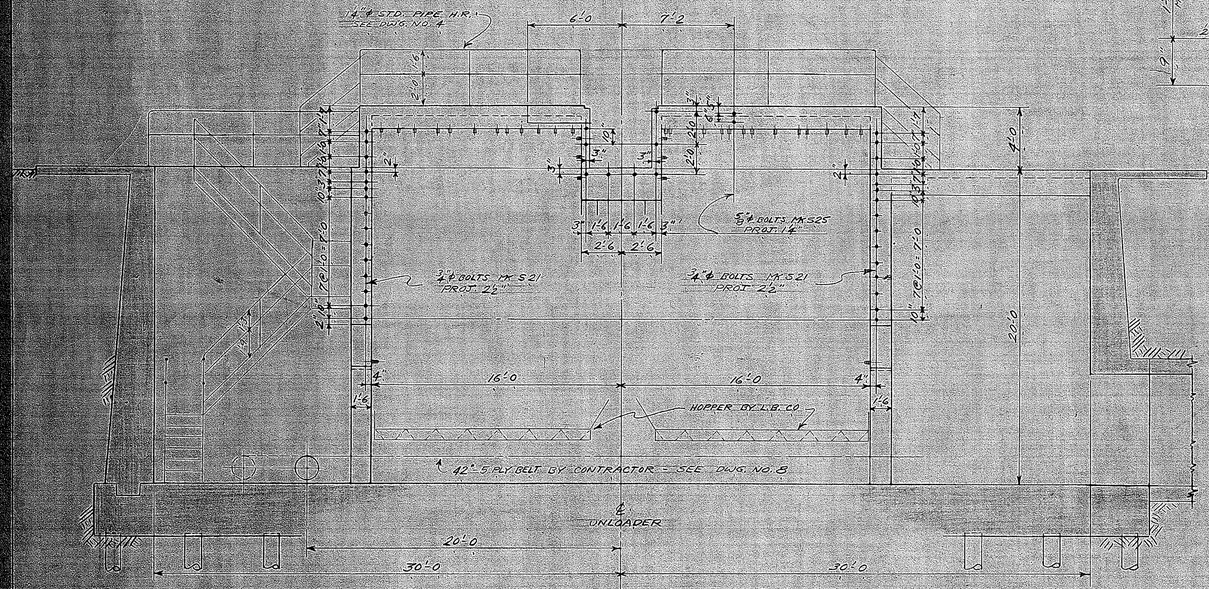


DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 07549

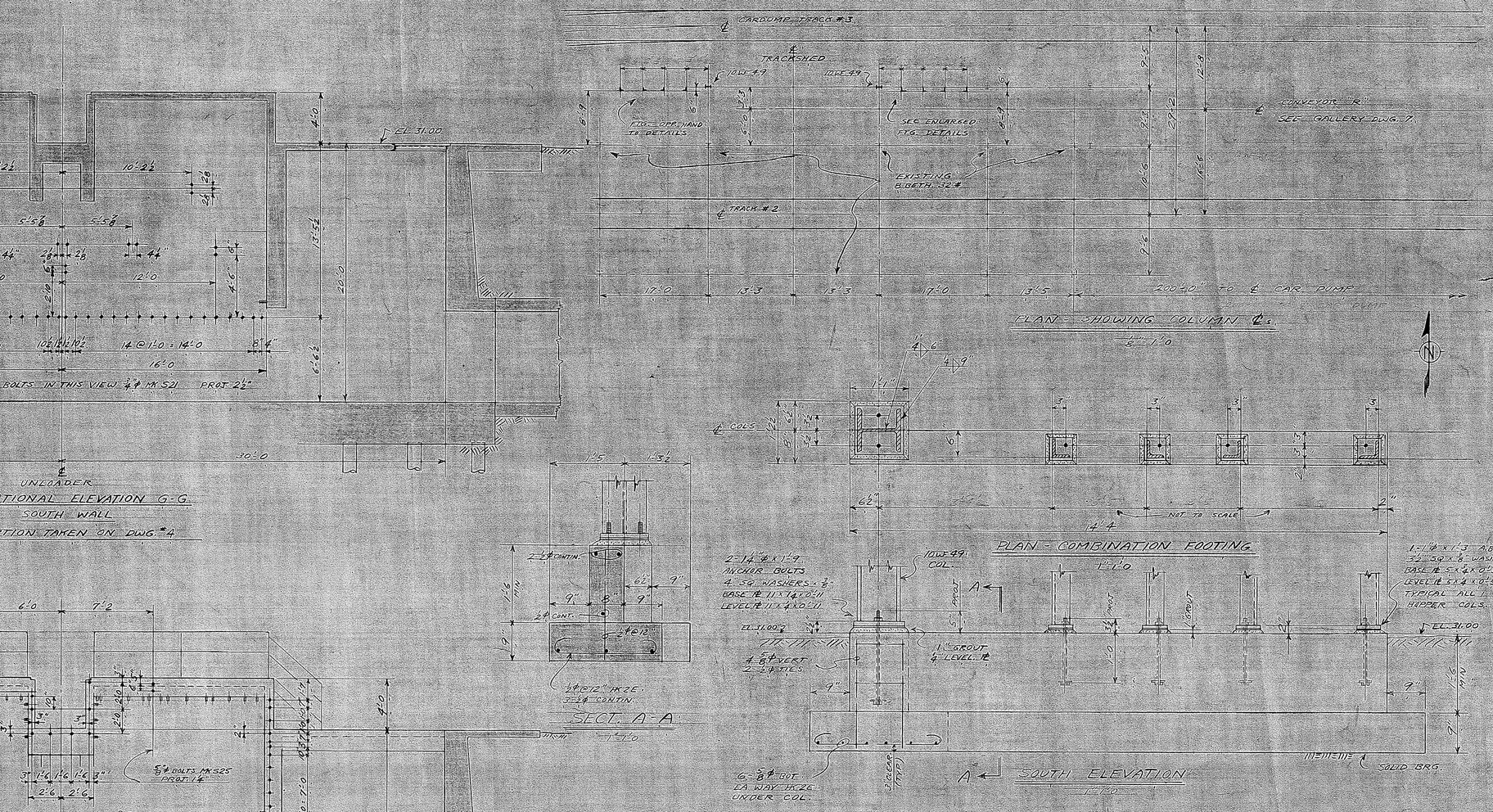
DRAWING NUMBER
B560
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 07549



℄ UNLOADER
SECTIONAL ELEVATION G-G
SOUTH WALL
SECTION TAKEN ON DWG. #4



℄ UNLOADER
SECTIONAL ELEVATION H-H
SECTION TAKEN ON DWG. NO. 4



PLAN SHOWING COLUMN ℄s
1"=1'-0

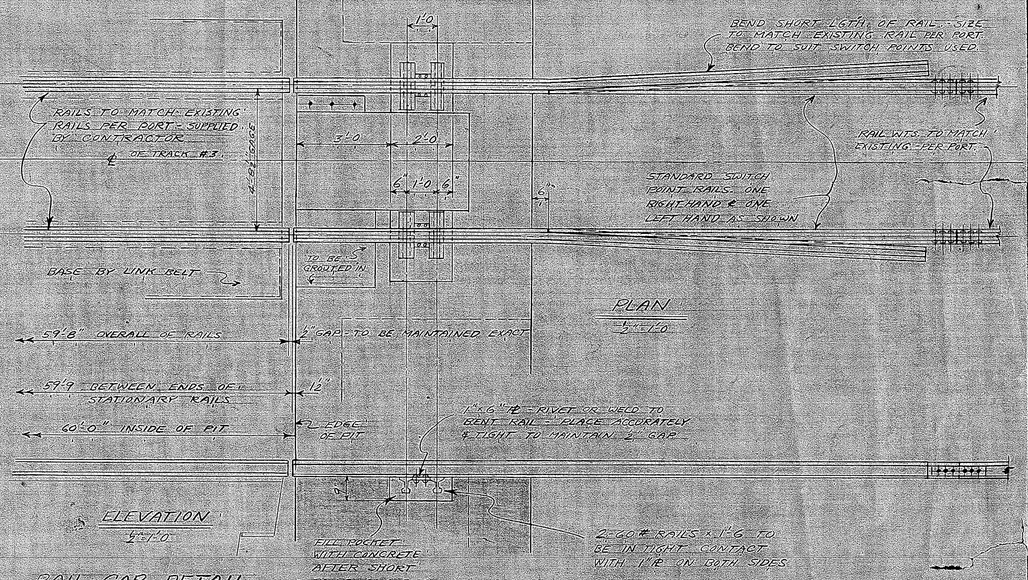
PLAN - COMBINATION FOOTING
1"=1'-0

1-1¼ x 1'-3 R.O. 3½"-3ø x ½" WASHER BASE ℄ 5"x4"x0'-5 LEVEL ℄ 5"x4"x0'-5 TYPICAL ALL HOPPER COLS.

6-⅝ø BOT
LA WAY HKZE
UNDER COL.

3 SPACES @ 6" = 1'-6" (TYP.)

A ← SOUTH ELEVATION
1"=1'-0



PLAN
½"=1'-0

ELEVATION
½"=1'-0

RAIL GAP DETAIL

RAILS TO BE SECURELY FASTENED TO PREVENT LONGITUDINAL CREEPING OR CHANGING OF 2" GAP BECAUSE OF RAIL EXPANSION

MARSHALL & BARR REGISTERED PROFESSIONAL ENGINEERS STATE OF WASHINGTON

EDW. F. CARTER REGISTERED PROFESSIONAL ENGINEER STATE OF WASHINGTON

1952 CAR UNLOADER
PORT OF LONGVIEW
LONGVIEW, WASH.

SUBSTRUCTURE
DETAILS & FOOTINGS
SCALE ½"=1'-0

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER — SEATTLE

DR. RCT JUNE 1952 PRINTED
CK. WW Dec 52

6

MARSHALL & BARR - ASSOCIATES 3713

DRAWING NUMBER

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REORDER BY NUMBER 075AR

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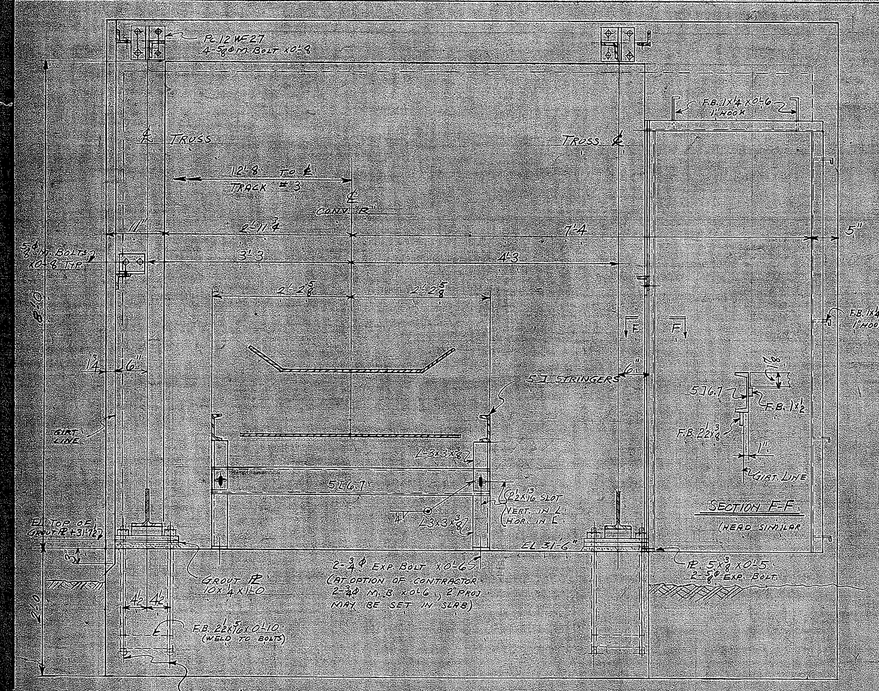
REORDER BY NUMBER 075AR

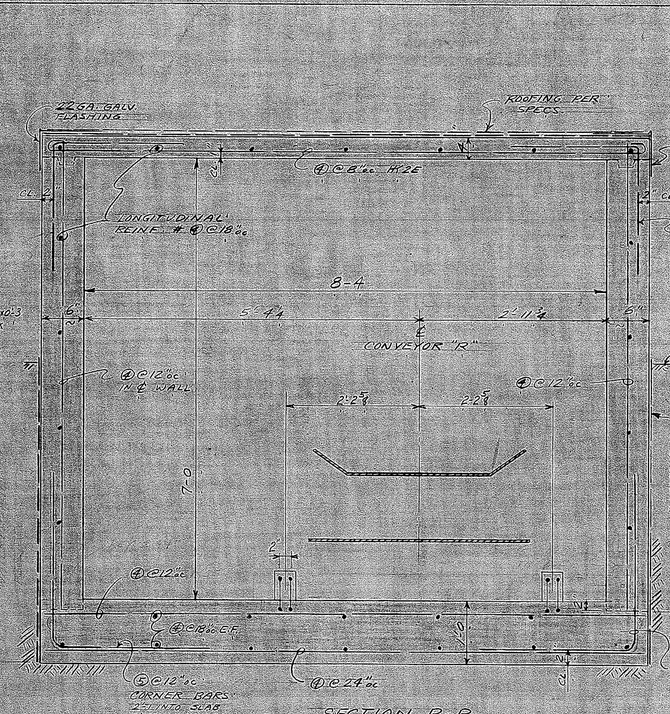
DRAWING NUMBER
B561

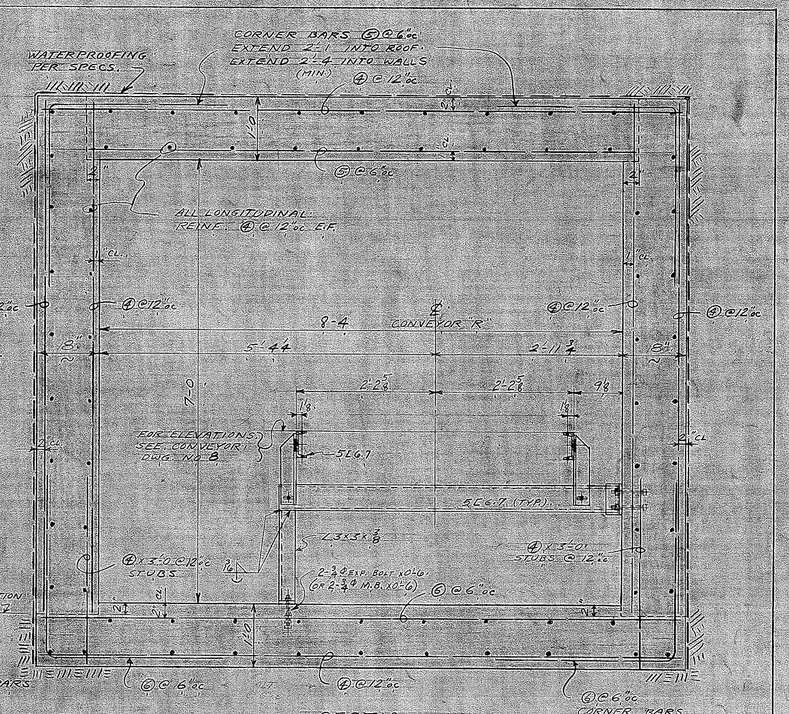
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR







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EDW. F. CARTER REGISTERED STATE OF WASHINGTON

1952 CAR UNLOADER
PORT OF LONGVIEW
LONGVIEW, WASH

TUNNEL
SCALE - As Noted

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER · SEATTLE

DR. RCT Sheet 2 1952
CH. WW Sheet 52
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MARSHALL & BARR - ASSOCIATES 31.907

JOB #2735

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REORDER BY NUMBER 075AR

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DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

REORDER BY NUMBER 075AR

DRAWING NUMBER

B 559

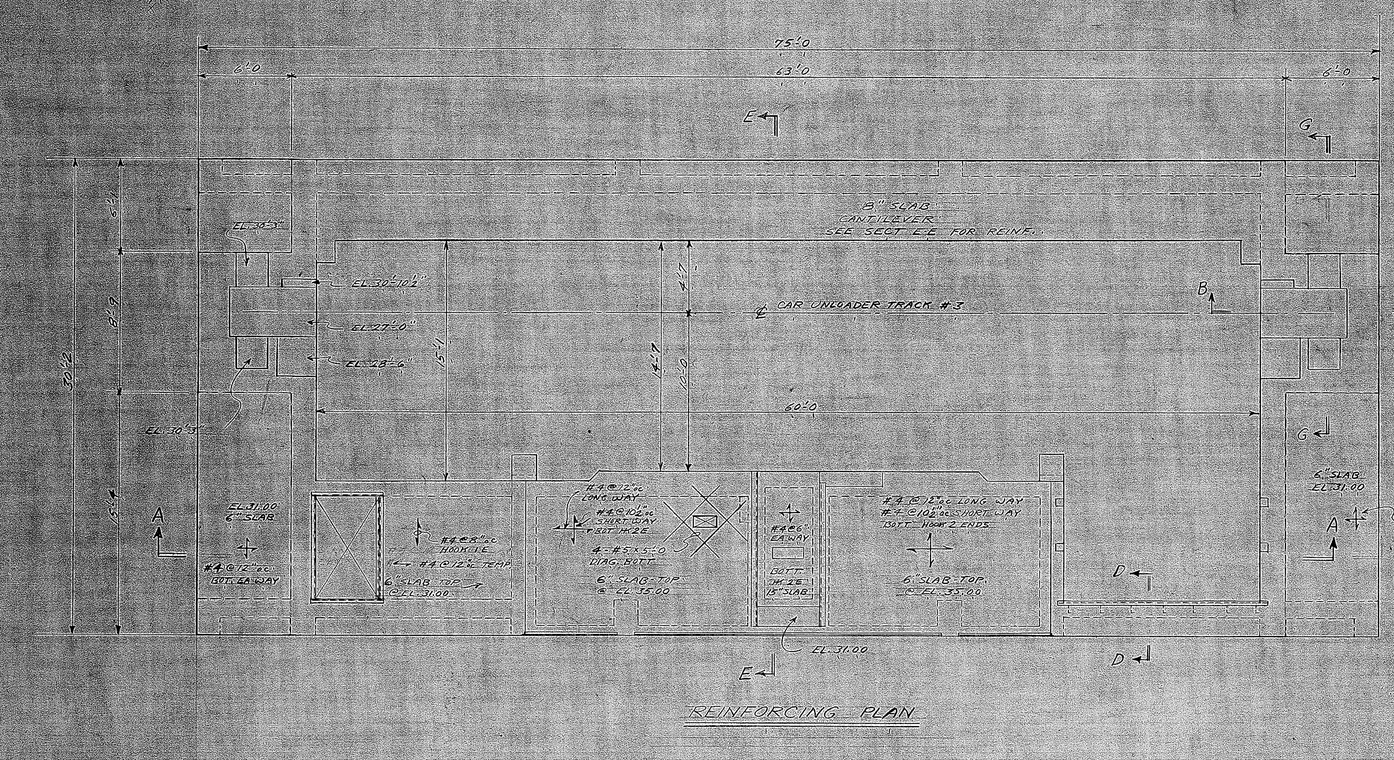
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

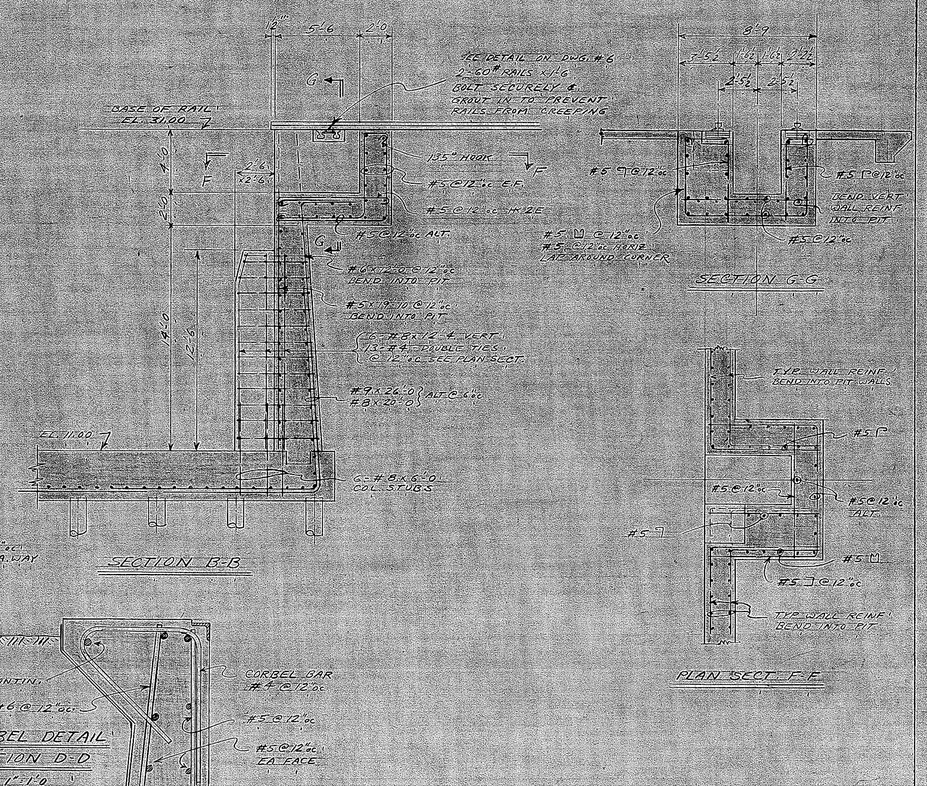
REORDER BY NUMBER 075AR

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIF

REORDER BY NUMBER 075AR





REINFORCING DESIGNATION		
NO.	AREA	EQUIVALENT
#4	.20	½" ϕ
#5	.31	⅝" ϕ
#6	.44	¾" ϕ
#7	.60	⅞" ϕ
#8	.79	1" ϕ
#9	1.00	1" ϕ
#10	1.27	1⅛" ϕ

NOTES:

ALL REINFORCING INTERMEDIATE GRADE - DEFORMED $f_s = 20{,}000$ PSI
ALL REINF. SHOWN IS TYPICAL - SEE OTHER REINFORCING DRAWINGS.
MINIMUM SPLICE - 32 DIAMETERS FOR #6 & LARGER BARS
" " - 24" FOR #5 & SMALLER BARS
CONCRETE MIN. $f_c = 2500$ #/in² @ 28 DAYS - DESIGN PER SPECIFICATIONS.
USE NO ADMIXTURE - DO NOT POUR DURING FREEZING WEATHER.
MAX. AGGREGATE - 1½" STONE FOR PILE SLAB & FNDN. WALLS - ¾" FOR SLABS.
MAX. SLUMP - 4"

WATERPROOFING - 3 PLIES - 15# FELT MEMBRANE WATERPROOFING TO EL. 31.00

FOR CONCRETE DIMENSIONS & ANCHOR BOLT SETTINGS SEE DWGS. 3, 4 & 6

MARSHALL & BARR REGISTERED PROFESSIONAL ENGINEERS STATE OF WASHINGTON

EDW. F. CARTER CITY OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER

1952 CAR UNLOADER
PORT OF LONGVIEW
LONGVIEW, WASH

SUBSTRUCTURE
REINFORCING
SCALE 4"=1'-0"

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER — SEATTLE

DR. [illegible] PRINTED [redacted] 5

CK. [illegible]

MARSHALL & BARR & ASSOCIATES 3/1977

DRAWING NUMBER
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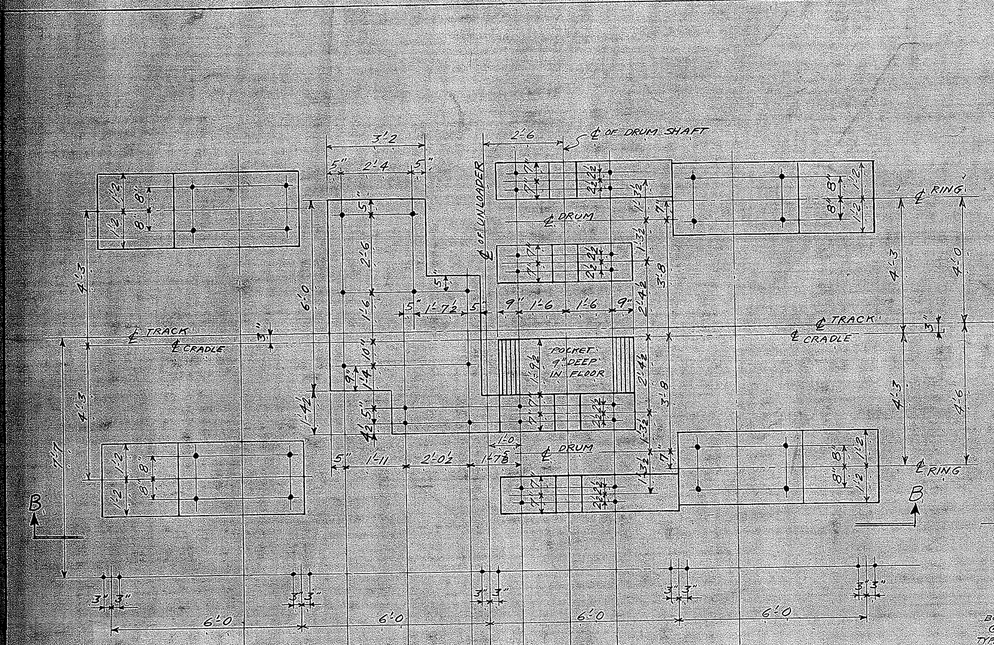
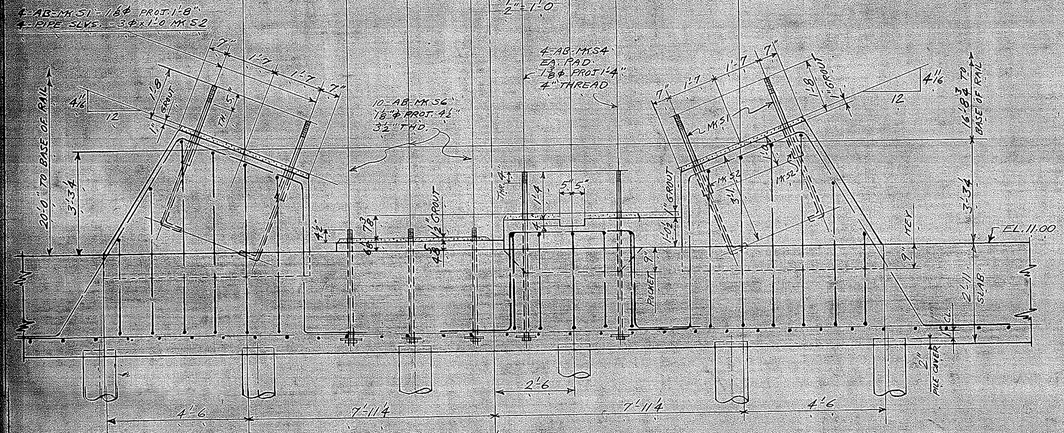
DRAWING NUMBER
B557
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIF
REORDER BY NUMBER 075AR



PART PLAN - MACHINERY PIERS

1/2" = 1'-0

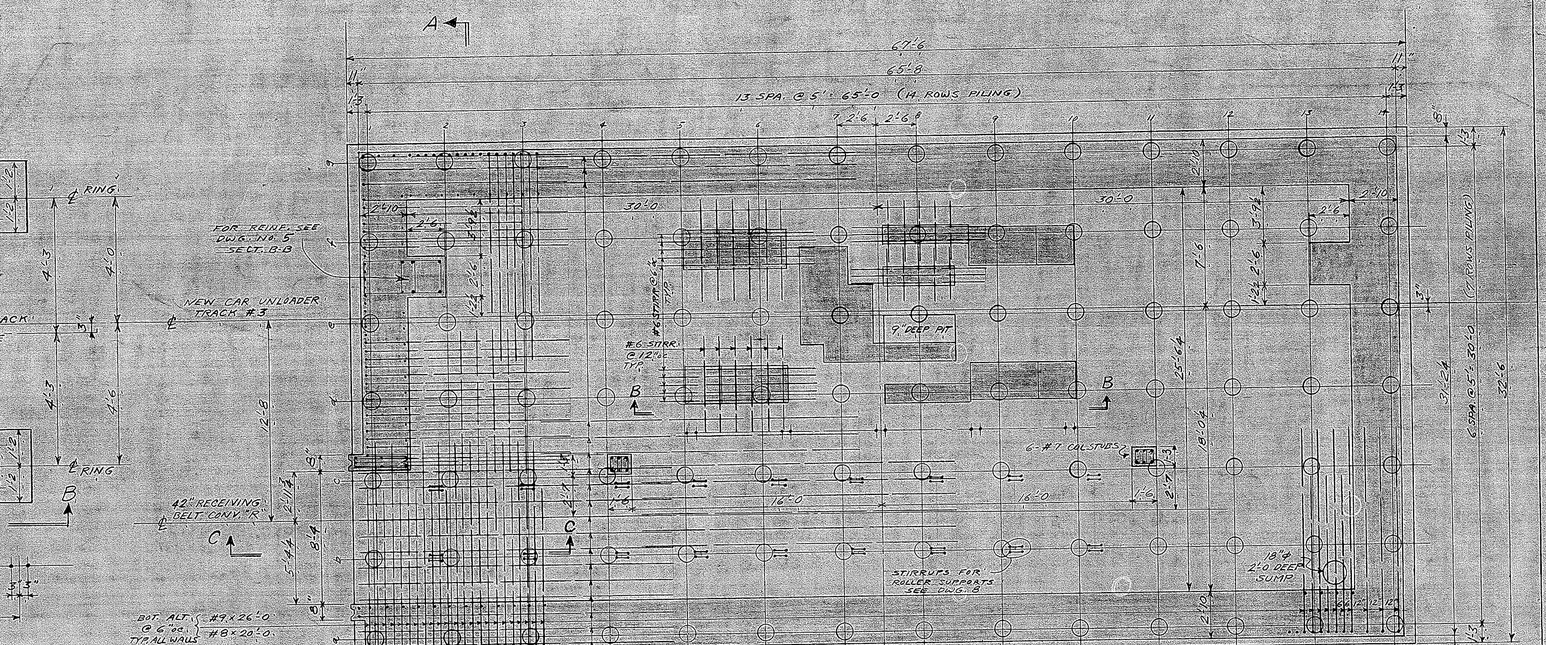


SECTION B-B

1/2" = 1'-0

PART PLAN - MACHINERY PIERS

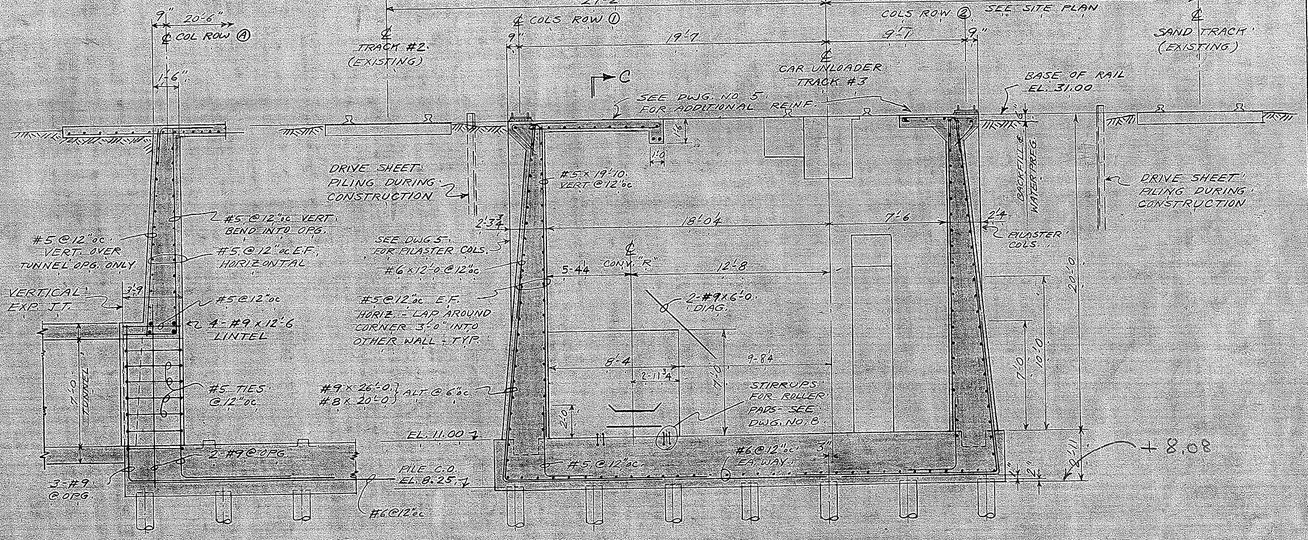
1/2" = 1'-0



PILE SLAB PLAN

4" = 1'-0

ALL REINF. SHOWN & NOTED IS TYPICAL
TOP OF SLAB AT ELEVATION +11'-0."
PILE CUT-OFF AT ELEV. +6.25"
98 - 20 TON PILING REQD



SECTION C-C

4" = 1'-0

SECTION A-A

4" = 1'-0

NOTES:
WORK WITH DWGS. 4, 5 & 6
CONC. f'_c = 2500 #/in² MIX PER SPECIFICATIONS
SEE DWG. NO. 5 FOR ADDITIONAL NOTES.
WATERPROOF ALL OUTSIDE WALLS TO GRADE - SEE DWG. 5

MARSHALL & BARR STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEERS

EDW. F. CARTER STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER PORTLAND, OREGON

1952 CAR UNLOADER
PORT OF LONGVIEW
LONGVIEW, WASH.

SUBSTRUCTURE
PILE SLAB
SCALE 4" = 1'-0

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER SEATTLE

DR. MRT JUNE 1952
CK. [redacted]
PRINTED
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MARSHALL & BARR - ASSOCIATES 3/103

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

REORDER BY NUMBER 075AR

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

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DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

REORDER BY NUMBER 075AR

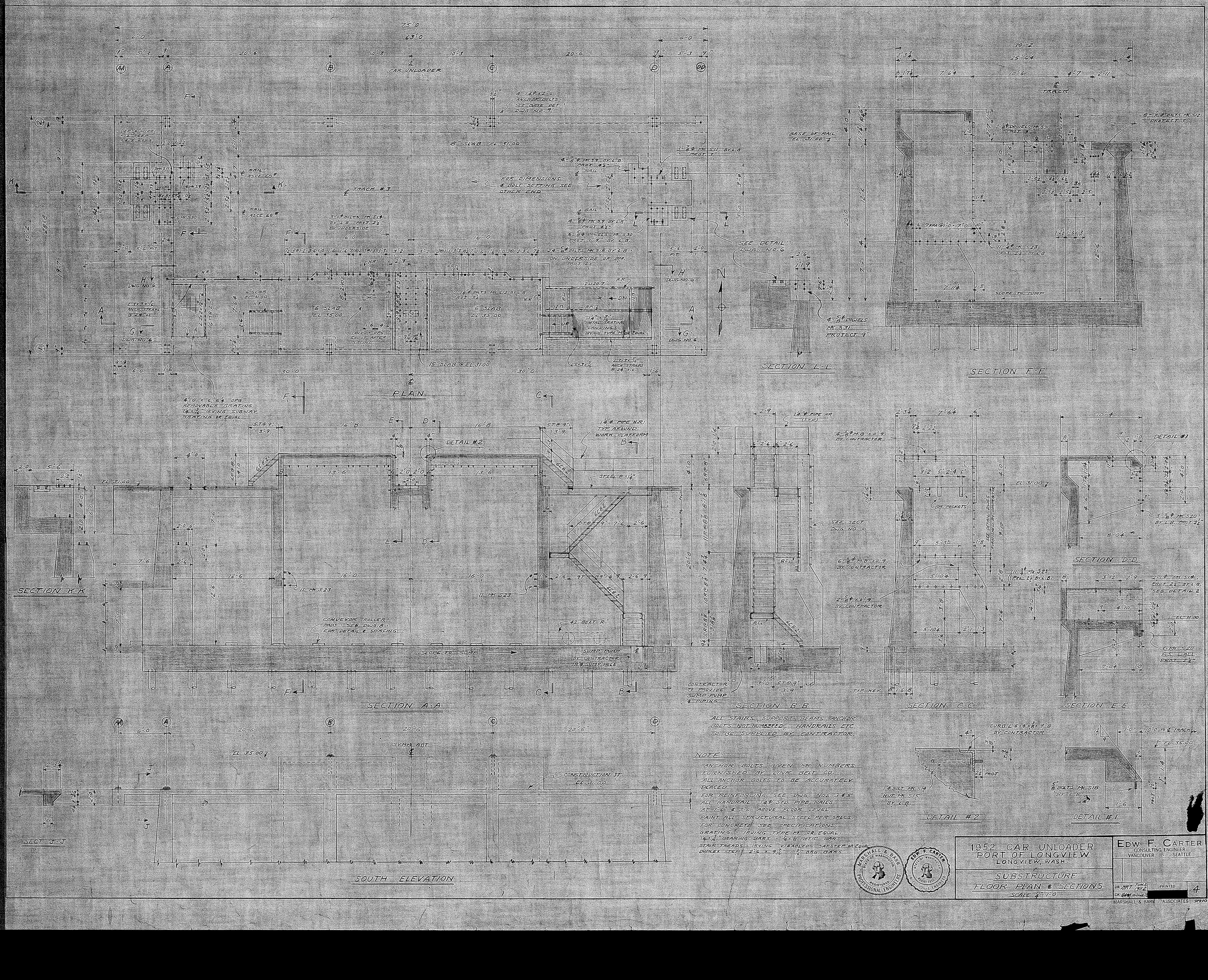
DRAWING NUMBER

B558

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

REORDER BY NUMBER 075AR

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIF

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