DRAWING NUMBER
B40
PLAN HOLD DESIGNATION
REORDER BY NUMBER ITEM

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

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

N 12,000

PROPERTY LINE S 25°44'E 223.7

LONG BELL CO.

E 42,000

FUTURE EXT.
280,000 BU.

PROPOSED 850,000 BU STORAGE

R O A D (TO BE RELOCATED)

OFFICE MOVED

GARAGE MOVED

CENTER LINE OF DIKE

FUTURE CAR DUMP

CENTER LINE OF DIKE

MON 409100
NORTH 11,368.87
EAST 41,824.61

WORKHOUSE

542,000 BU CAP
EXISTING STORAGE

FUTURE
542,000 BU CAP

375,800
BU CAP
EXISTING
STORAGE

"A" FRAME

"A" FRAME

40,800 Sq. Ft.
WAREHOUSE #4

GARAGE

RR Railroad Elev. 30.0

RR. BARGE LANDING

MARINE LEG

SACK HOUSE

"A" FRAME

GOVERNMENT PIER HEAD LINE

8 Std. Oil Co. Lines

E 41,000

N 35°06'E

CALL NORTH

COLUMBIA RIVER

APPROVED

PORT OF LONGVIEW JULY 12th 1951

CONTINENTAL GRAIN CO. JULY 6 1951

MARSHALL & BARR STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEERS

EDW. F. CARTER STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER

1951 GRAIN ELEVATOR
PORT OF LONGVIEW
LONGVIEW, WASH.

SITE PLAN

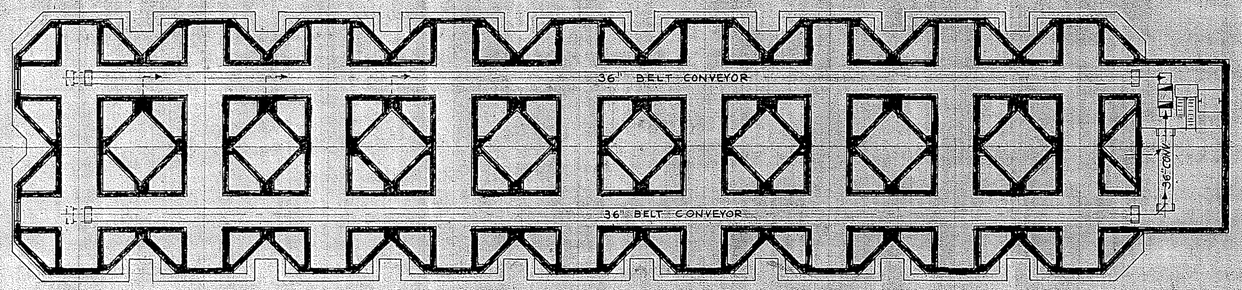
SCALE 1" = 50'

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER SEATTLE

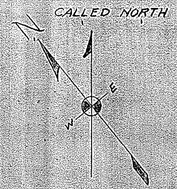
DR. KB 6/30/51 PRINTED XB
CK'Y 1226

MARSHALL & BARR ASSOCIATES 3/674

DRAWING NUMBER
841
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER ONLY

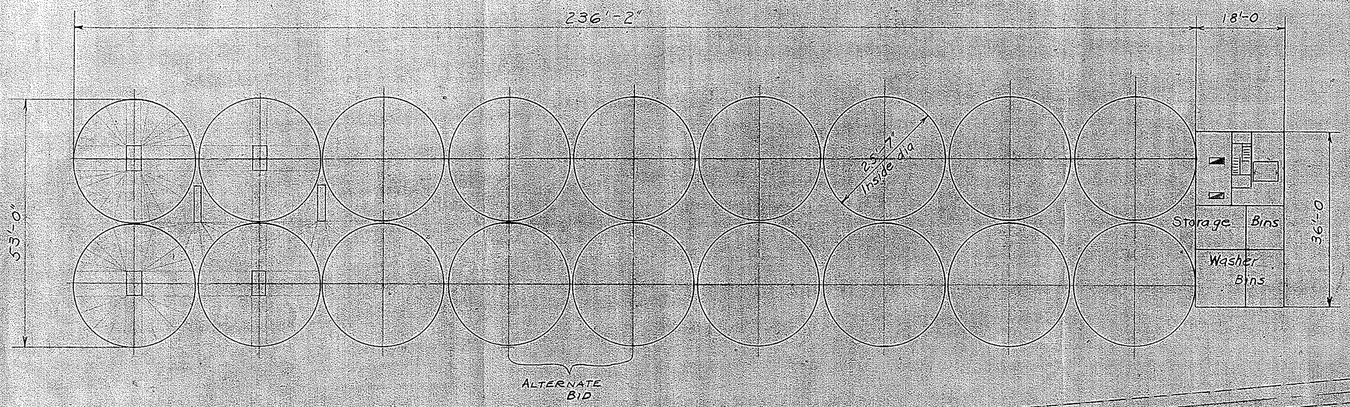


BASEMENT PLAN

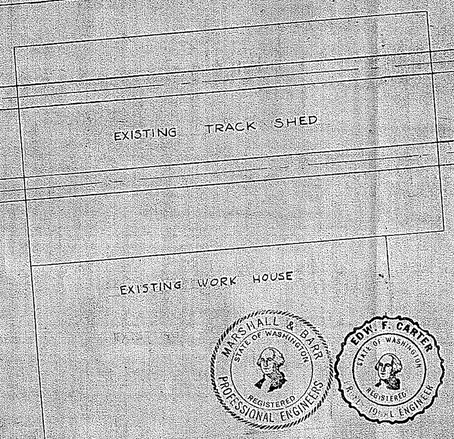


CAPACITY TABLE

STORAGE			
18 bins at	41,000 Bu	= 738,000 Bu	
8 bins at	10,000 Bu	= 80,000 Bu	
1 bin at	5,000 Bu	= 5,000 Bu	
			823,000 Bu
HEAD HOUSE			
2 Washer bins	8,000 Bu		
	3,500 Bu		
2 Storage bins	4,500 Bu		
	3,000 Bu		25,000 Bu
		TOTAL	848,000 Bu



GROUND FLOOR PLAN



APPROVED

Curtis Mansfield — JULY 12th 1951
PORT OF LONGVIEW

H. E. Pol — JULY 6 1951
CONTINENTAL GRAIN CO.

MARSHALL & BARR STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEERS

EDW. F. CARTER STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER

1951 GRAIN ELEVATOR
PORT OF LONGVIEW
LONGVIEW, WASH.

PLANS

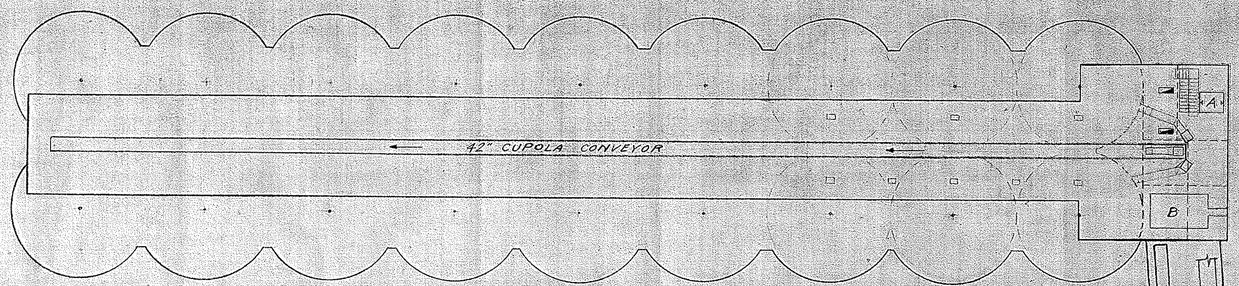
SCALE 16" = 1'-0

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER · SEATTLE

DR. [illegible] 6-30-51 | PRINTED | XB 1227
CK V [redacted]

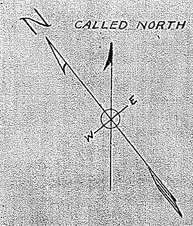
MARSHALL & BARR - ASSOCIATES 31695

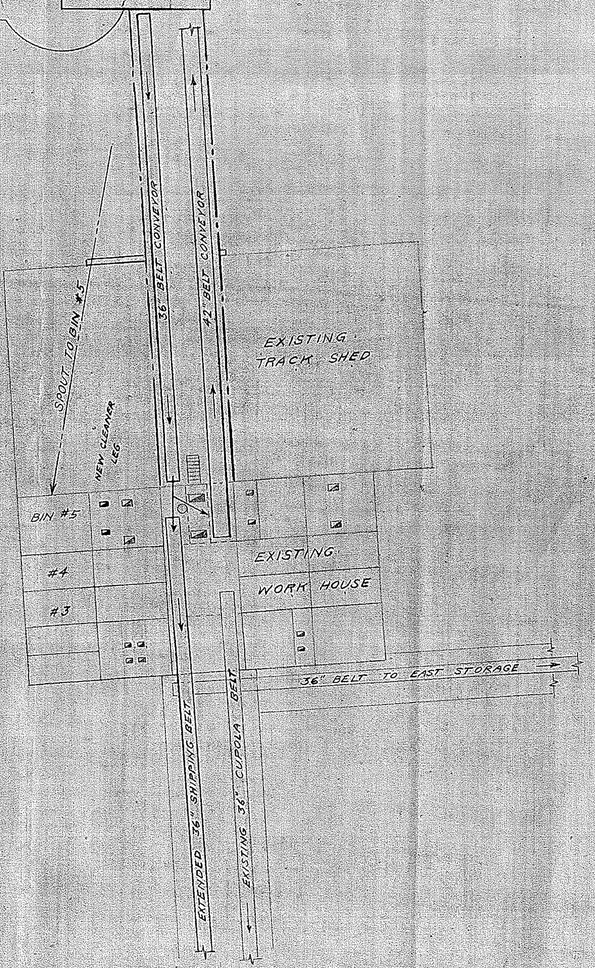
DRAWING NUMBER
B42
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
PROPERTY OF ASSIGNEE OF RECORD

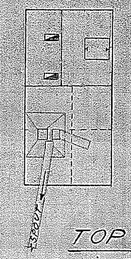


A- PASSENGER ELEVATOR
B- #400 WASHER
C- #5 SCALPER

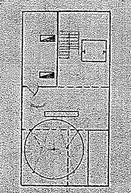
BIN FLOOR PLAN
EL. 128.75



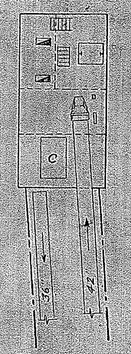




TOP FLOOR
EL. 195.92



SCALE FLOOR
EL. 151.25



CONVEYOR FLOOR
EL. 140.00

APPROVED

Port of Longview — July 13th - 1951

Continental Grain Co. — July 16 - 1951

MARSHALL & BARR REGISTERED PROFESSIONAL ENGINEERS STATE OF WASHINGTON

EDW. F. CARTER REGISTERED PROFESSIONAL ENGINEER STATE OF WASHINGTON

1951 GRAIN ELEVATOR
PORT OF LONGVIEW
LONGVIEW, WASH.

CUPOLA PLANS
SCALE 1/16" = 1'-0

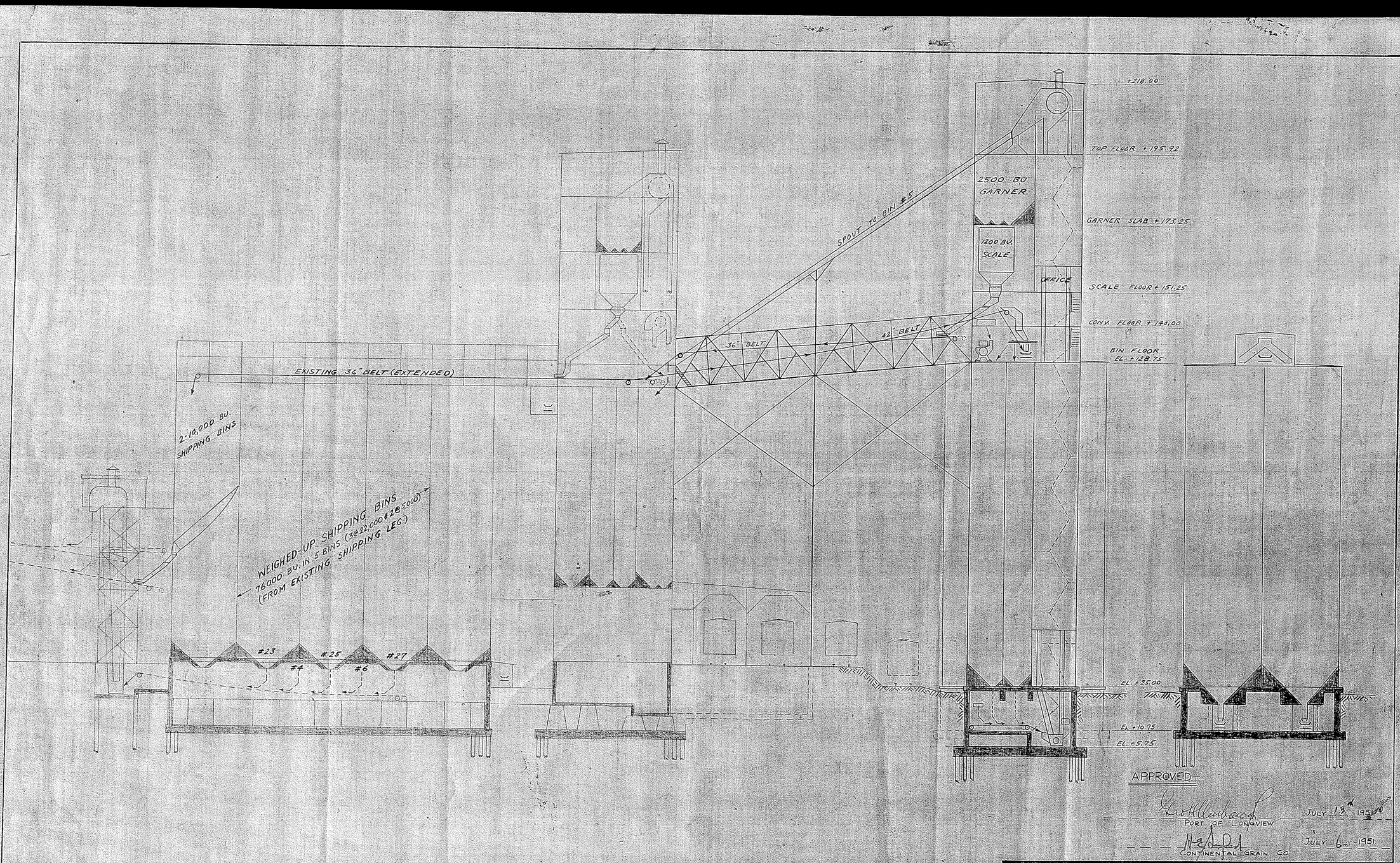
EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER · SEATTLE

DR. MRT 6/30/51 PRINTED XB
CK'D [redacted] 1228

MARSHALL & BARR - ASSOCIATES 37696

DRAWING NUMBER 844

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA



APPROVED

Port of Longview — July 18 — 1951

Continental Grain Co — July 6 — 1951

MARSHALL & BARR REGISTERED PROFESSIONAL ENGINEERS STATE OF WASHINGTON

EDW. F. CARTER REGISTERED PROFESSIONAL ENGINEER STATE OF WASHINGTON

1951 GRAIN ELEVATOR PORT OF LONGVIEW LONGVIEW, WASH.

CROSS SECTIONS

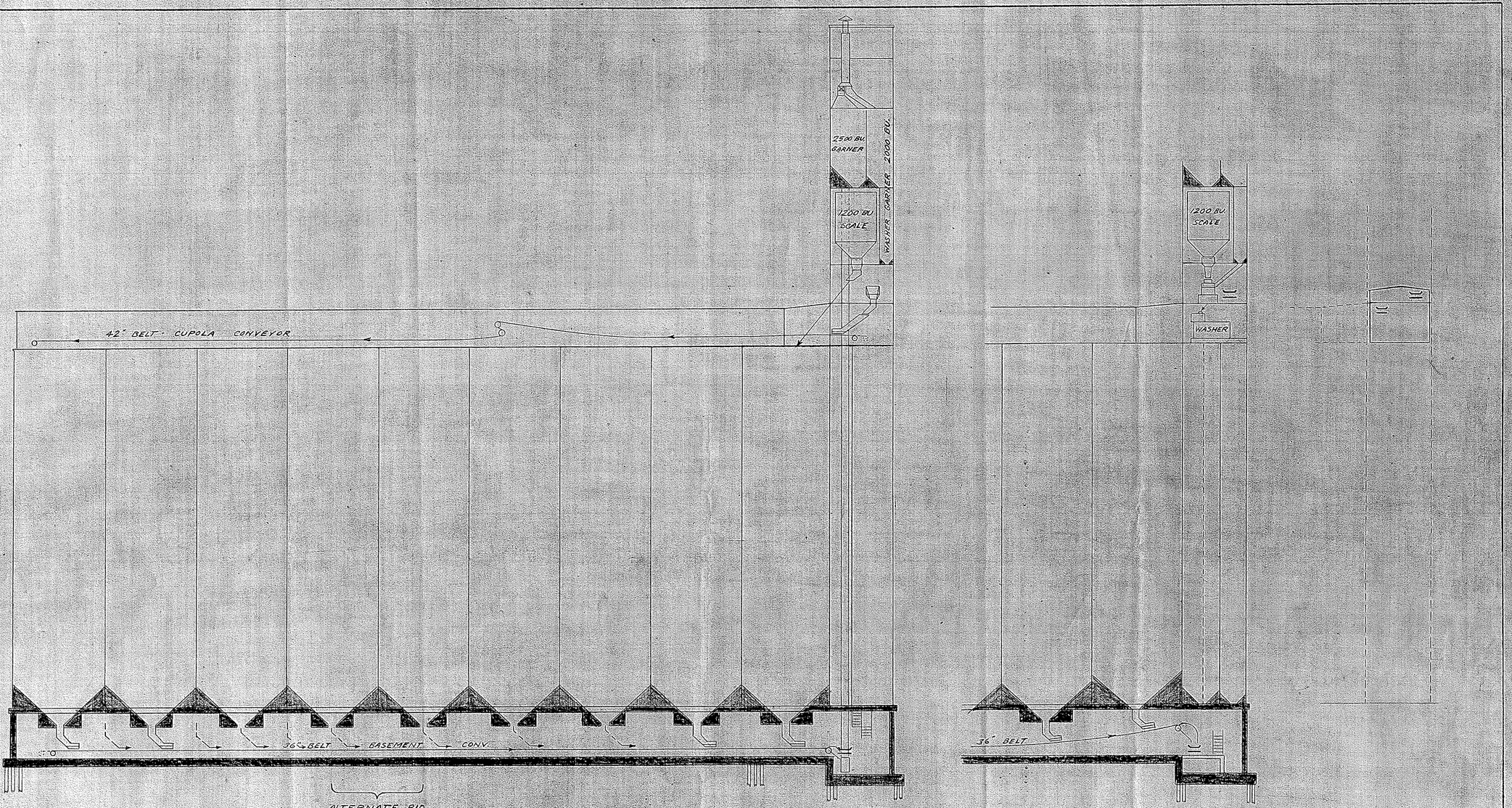
SCALE 1/16" = 1'-0"

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER SEATTLE

DR. WRT 6/29/51 PRINTED [redacted] XB
CK V 1230

MARSHALL & BARR ASSOCIATES 3748

DRAWING NUMBER
843
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 017545



APPROVED—

Curtis Mc Clough — PORT OF LONGVIEW — JULY 13th 1951

H E A D — CONTINENTAL GRAIN CO. — JULY 6 1951

MARSHALL & BARR REGISTERED PROFESSIONAL ENGINEERS STATE OF WASHINGTON

EDW. F. CARTER REGISTERED PROFESSIONAL ENGINEER STATE OF WASHINGTON

1951 GRAIN ELEVATOR
PORT OF LONGVIEW
LONGVIEW, WASH.

LONGITUDINAL SECTIONS
SCALE 1/8"-1'-0

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER · SEATTLE

DR. KRT 6/30/51 — PRINTED — XB 1229
CK'D

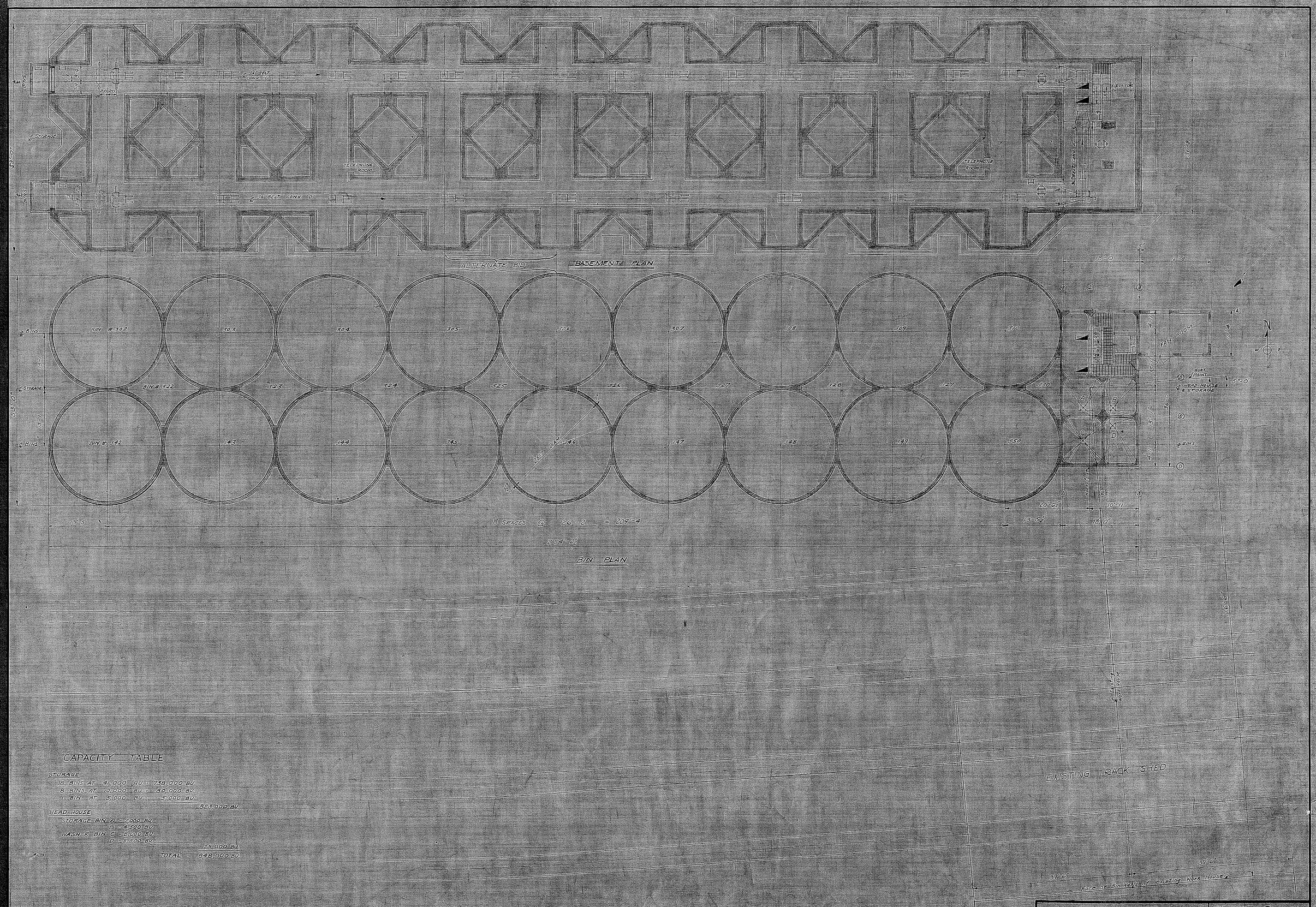
MARSHALL & BARR · ASSOCIATES 3/697

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 017545

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 017545

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

DRAWING NUMBER
B523
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR



CAPACITY TABLE

STORAGE
- 18 BINS AT 41,000 BU = 738,000 BU.
- 8 BINS AT 10,000 BU = 80,000 BU.
- 1 BIN AT 5,000 BU = 5,000 BU.

823,000 BU.

HEAD HOUSE
- STORAGE BIN A = 7,000 BU.
- B = 4,500 BU.
- WASHER BIN C = 8,000 BU.
- D = 5,500 BU.

25,000 BU.

TOTAL 848,000 BU.

1951 GRAIN ELEVATOR
PORT OF LONGVIEW
LONGVIEW, WASH.

BSMT & BIN PLANS
SCALE: 1" = 50'

EDW. F. CARTER
CONSULTING ENGINEERS
VANCOUVER, B.C. SEATTLE

DRAWN CKD B-5-51 PRINTED
CHART 1952 JAN 8 1952

6

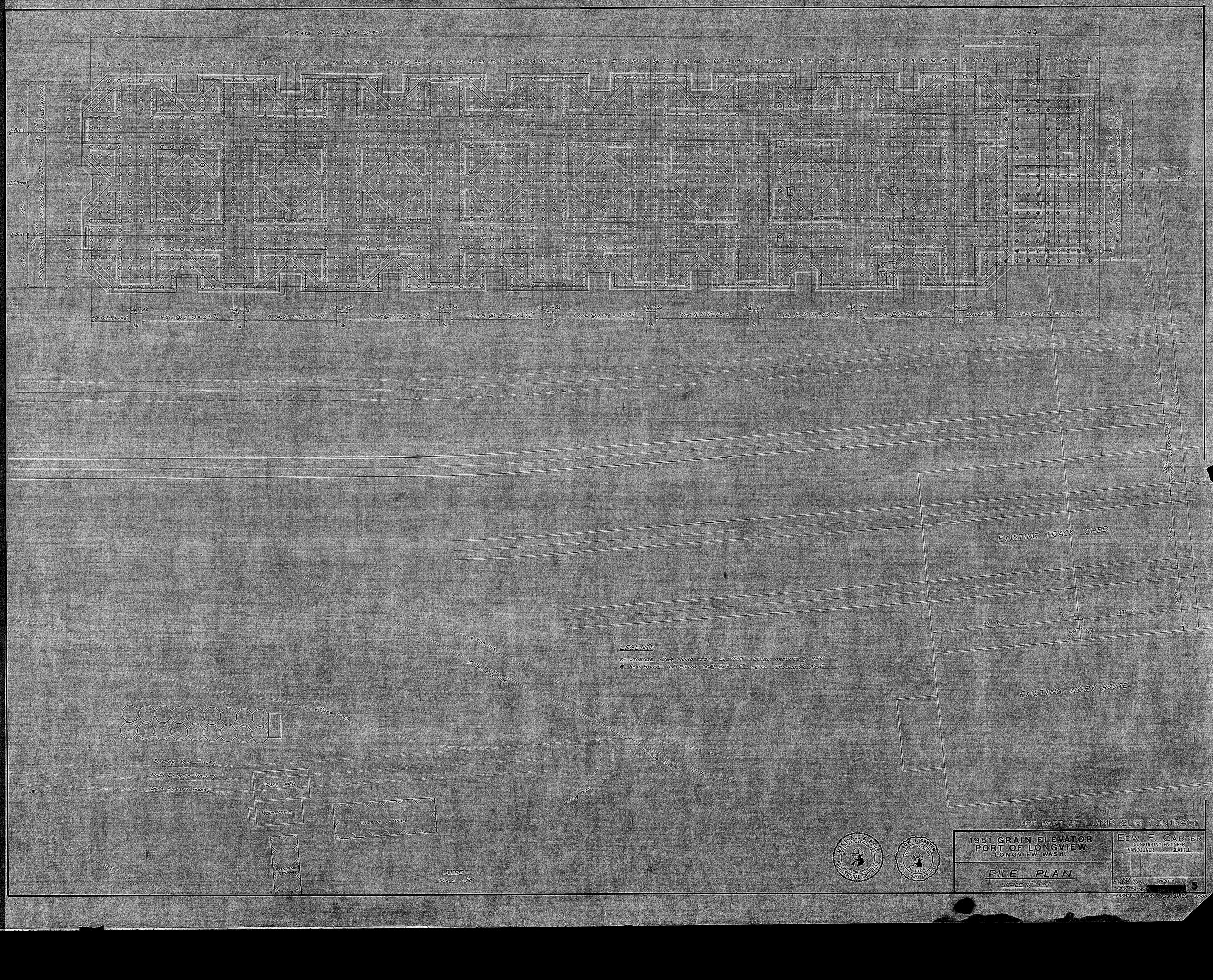
MARSHALL & BARR ASSOCIATES 5706

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 0754R

DRAWING NUMBER B522

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 0754R



1951 GRAIN ELEVATOR
PORT OF LONGVIEW
LONGVIEW, WASH.

PILE PLAN
SCALE 1"=10'

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER SEATTLE

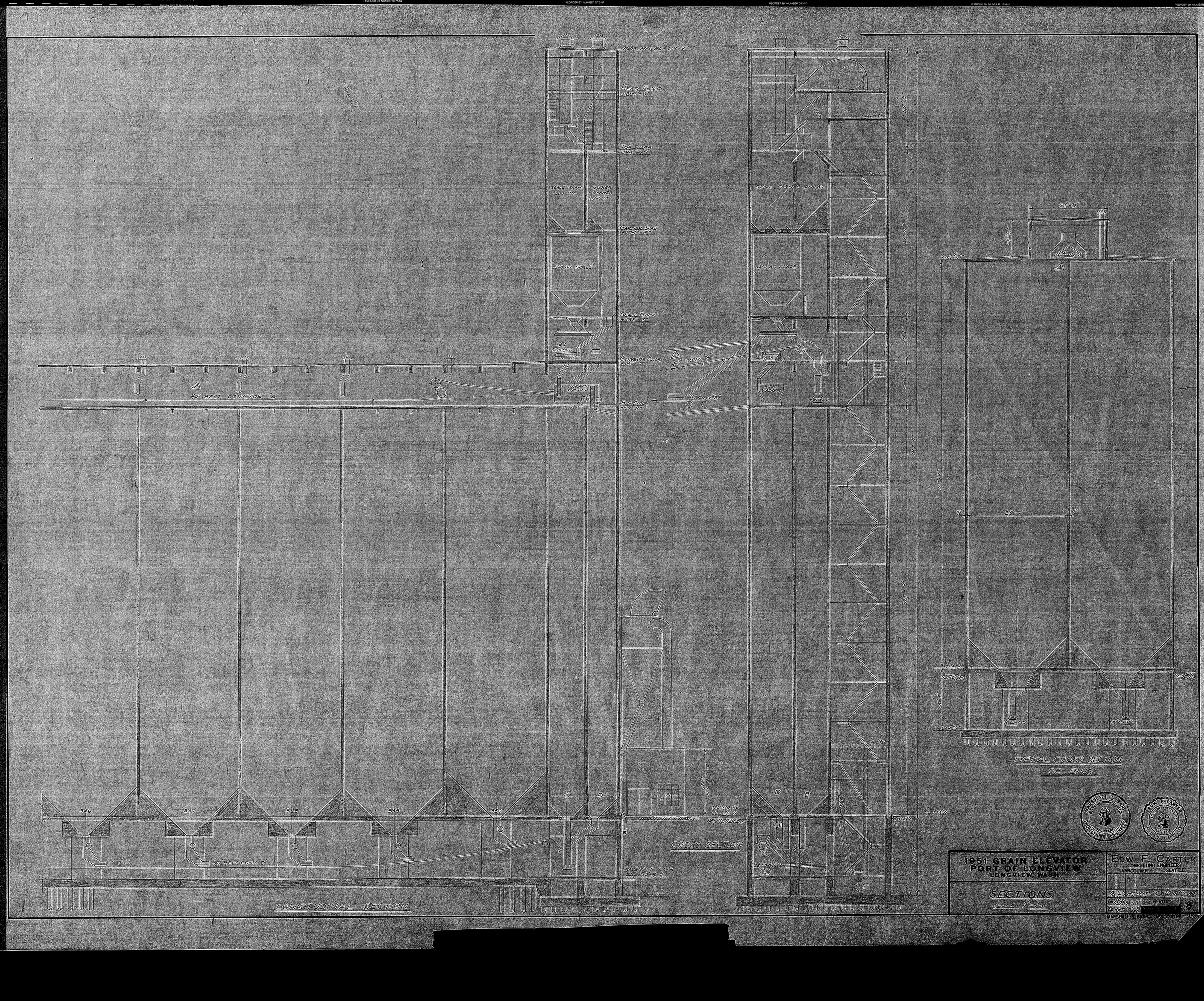
DRAWN M.J.M. PRINTED
CHECKED

5

MARSHALL, SCHARR & ASSOCIATES 3/700

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

DRAWING NUMBER
B525
PLAN-HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR



DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

REORDER BY NUMBER 07548

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

REORDER BY NUMBER 07548

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

REORDER BY NUMBER 07548

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

REORDER BY NUMBER 07548

DRAWING NUMBER

B520

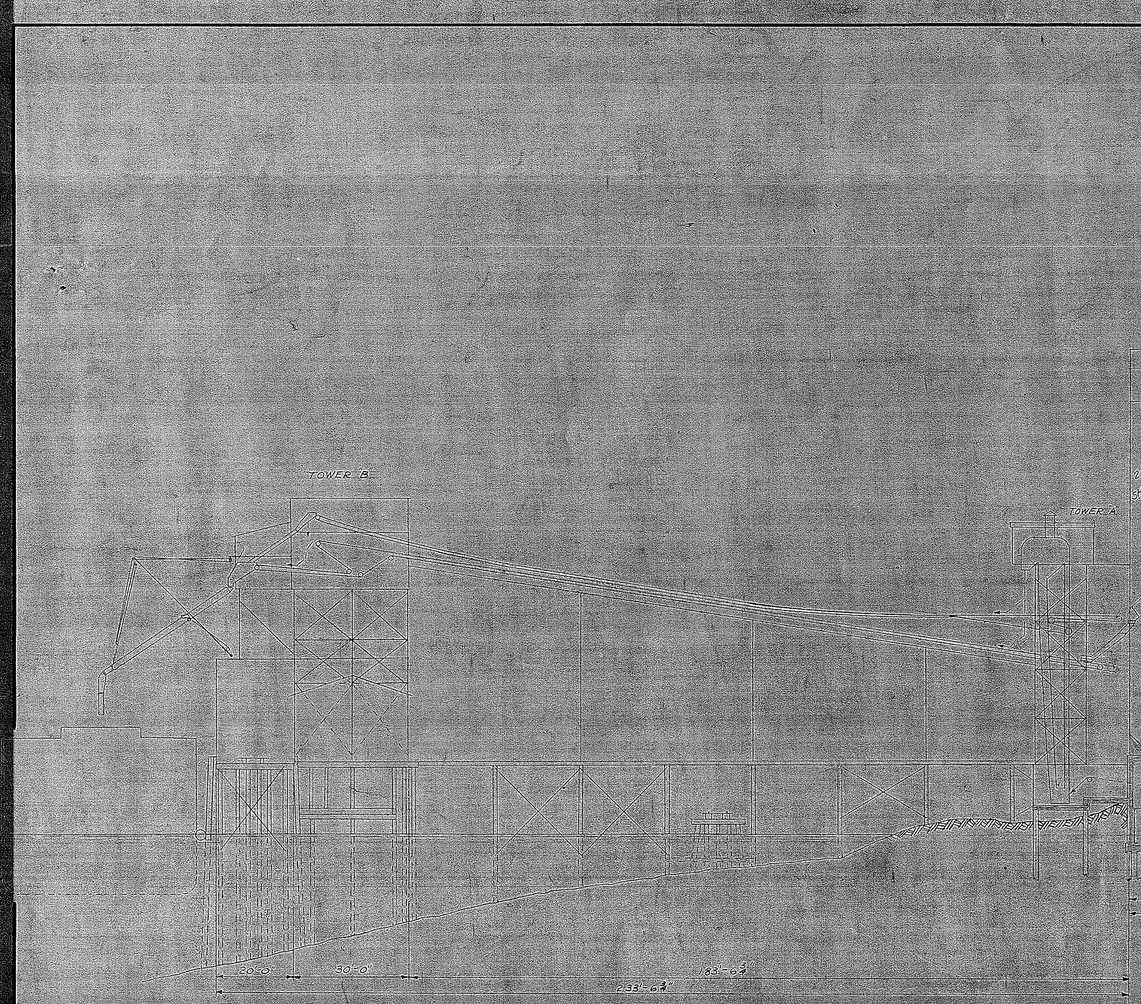
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

REORDER BY NUMBER 07548

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

REORDER BY NUMBER 07548



1951 GRAIN ELEVATOR
PORT OF LONGVIEW
LONGVIEW, WASH.

SECTIONS

SCALE 1/8"=1'-0"

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER SEATTLE

DRAWN [redacted]
PRINTED

3

MARSHALL & CHEARD-CLASS-SCRIBNER

DRAWING NUMBER

DRAWING NUMBER

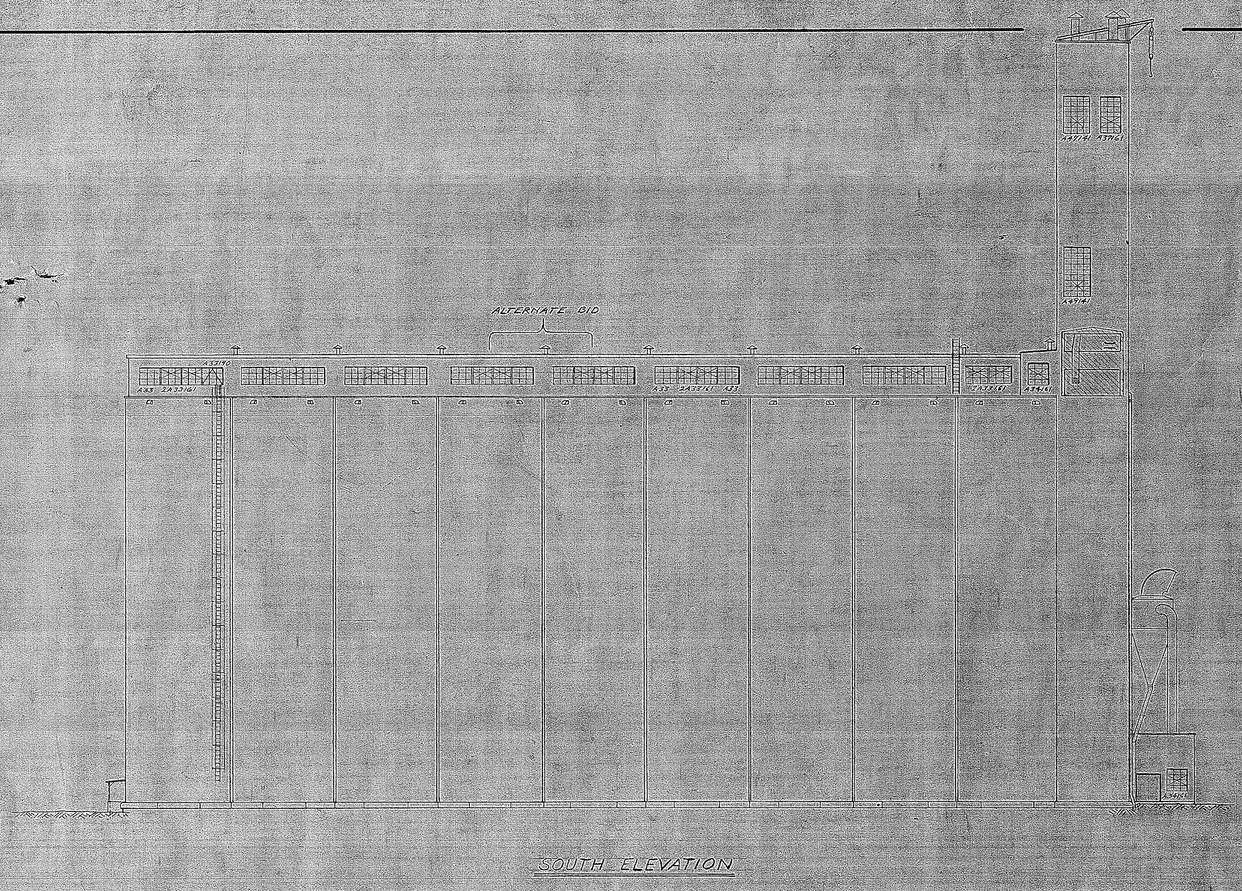
DRAWING NUMBER

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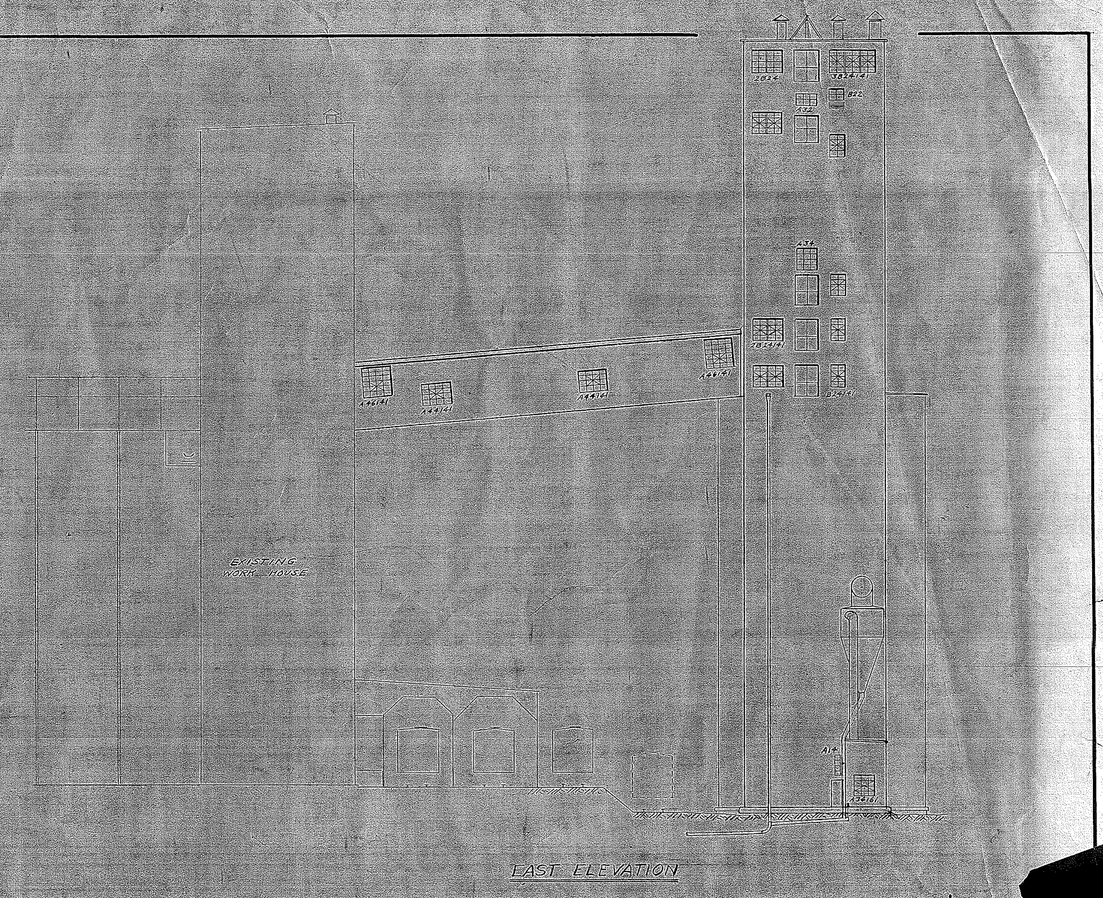
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B519

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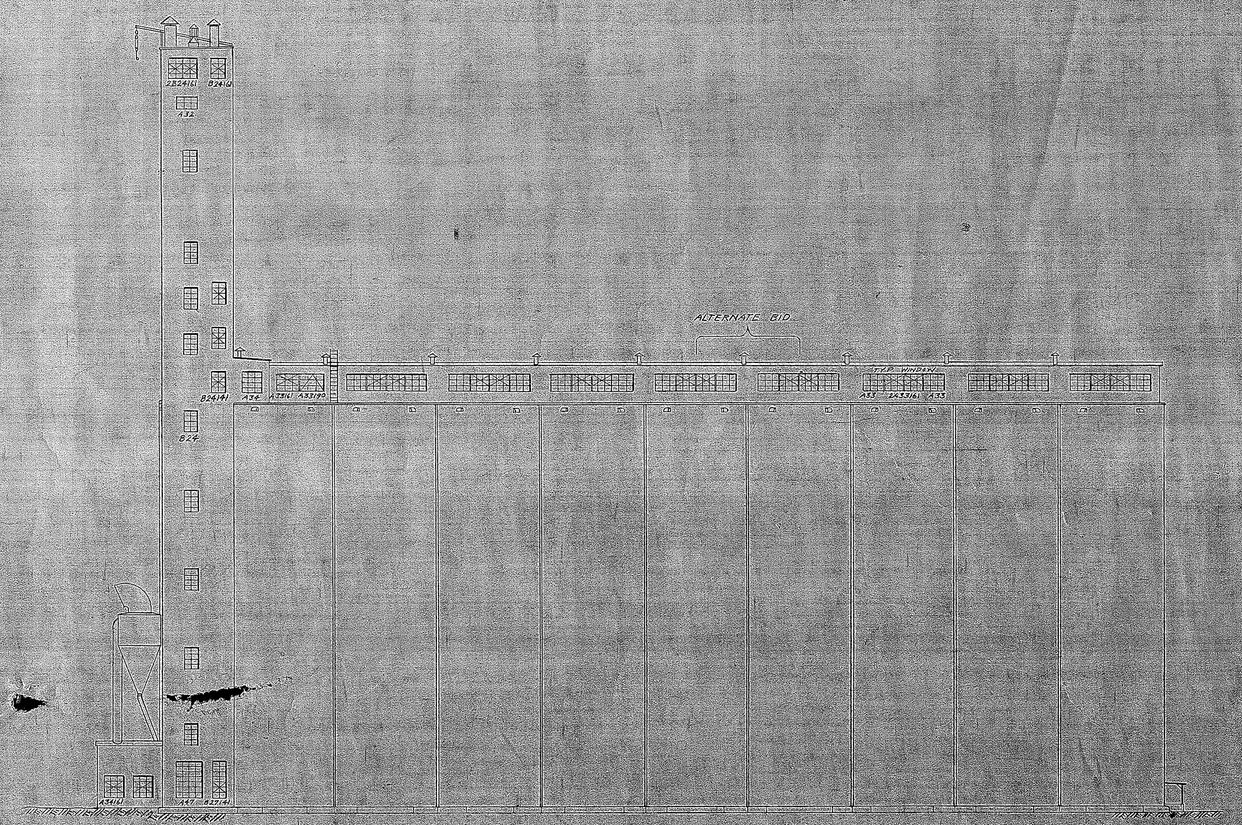
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 07SAR



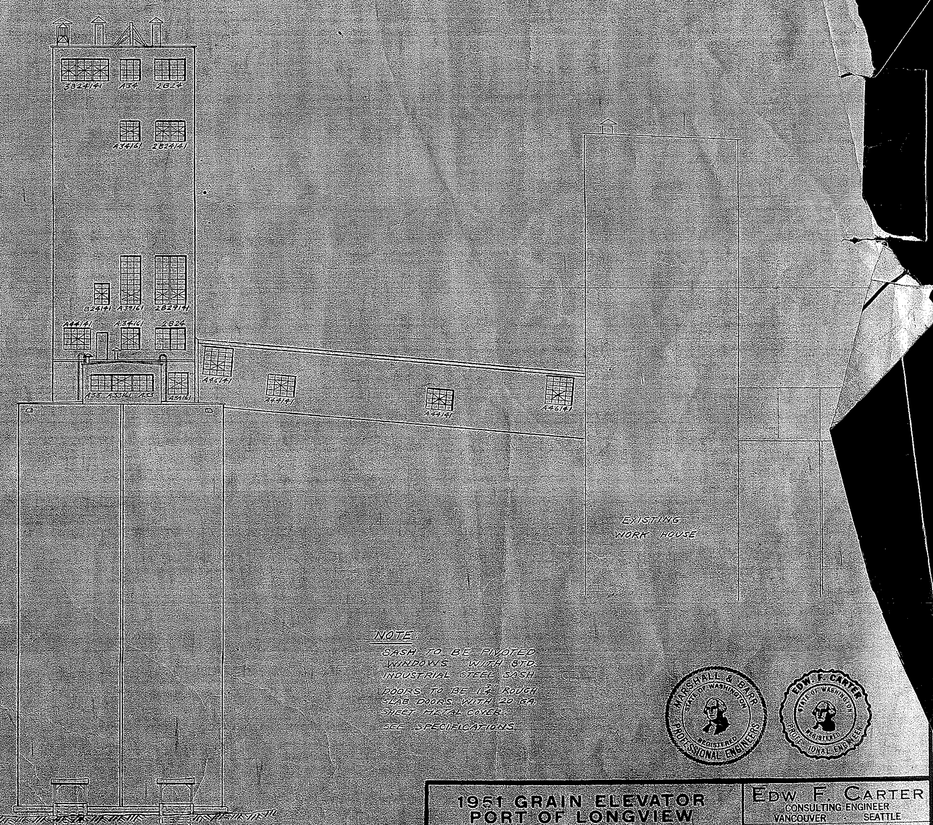
SOUTH ELEVATION



EAST ELEVATION



NORTH ELEVATION



WEST ELEVATION

NOTE
CASH TO BE PAINTED
WINDOWS IN AB STD
INDUSTRIAL TEAL GRN.
DOORS TO BE 4 PANEL
DOOR DOORS WITH 20 GA
SHEET STEEL COVER.
SEE SPECIFICATIONS.

MARSHALL & POPE REGISTERED PROFESSIONAL ENGINEERS

EDW. F. CARTER REGISTERED ARCHITECT PROFESSIONAL ENGINEER

1951 GRAIN ELEVATOR
PORT OF LONGVIEW
LONGVIEW, WASH.

ELEVATIONS

Scale 1/8"-1'-0"

EDW F. CARTER
CONSULTING ENGINEER
VANCOUVER SEATTLE

DR. M.T. CH. F.
CK. W.L.P. DATE

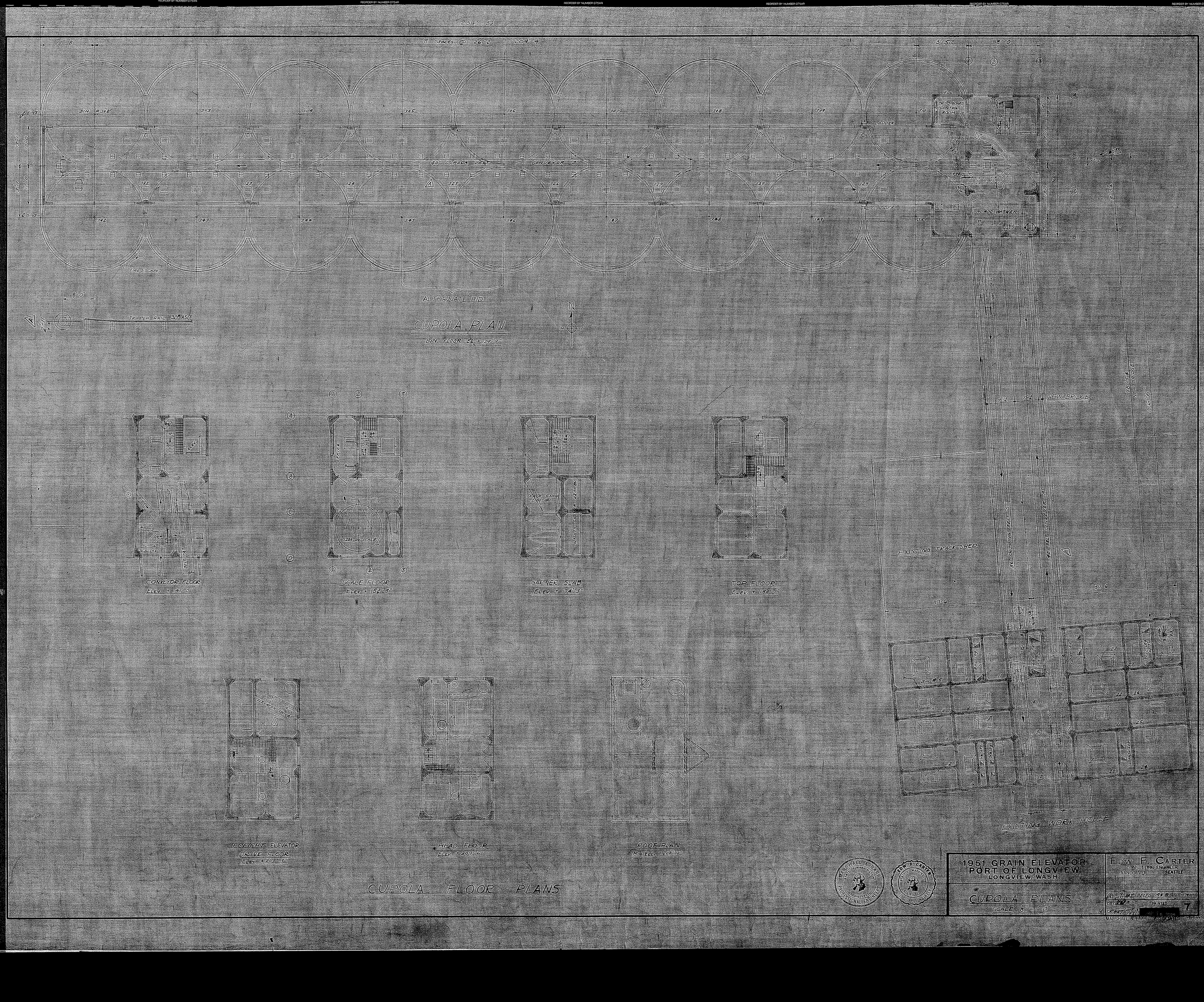
PRINTED

2

MARSHALL & BARR ASSOCIATES 3744

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 0754R

DRAWING NUMBER
B524
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 0754R



1951 GRAIN ELEVATOR
PORT OF LONGVIEW
LONGVIEW, WASH.

CUPOLA PLANS

SCALE 1/8" = 1'-0"

EDW. F. CARTER
CONSULTING ENGINEERS
VANCOUVER, B.C. SEATTLE

DATE: APRIL 1951
DRAWN: [illegible]
CHECKED: [illegible]

7

MARSHALL & BARI, BLUEPRINTERS, SEATTLE

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

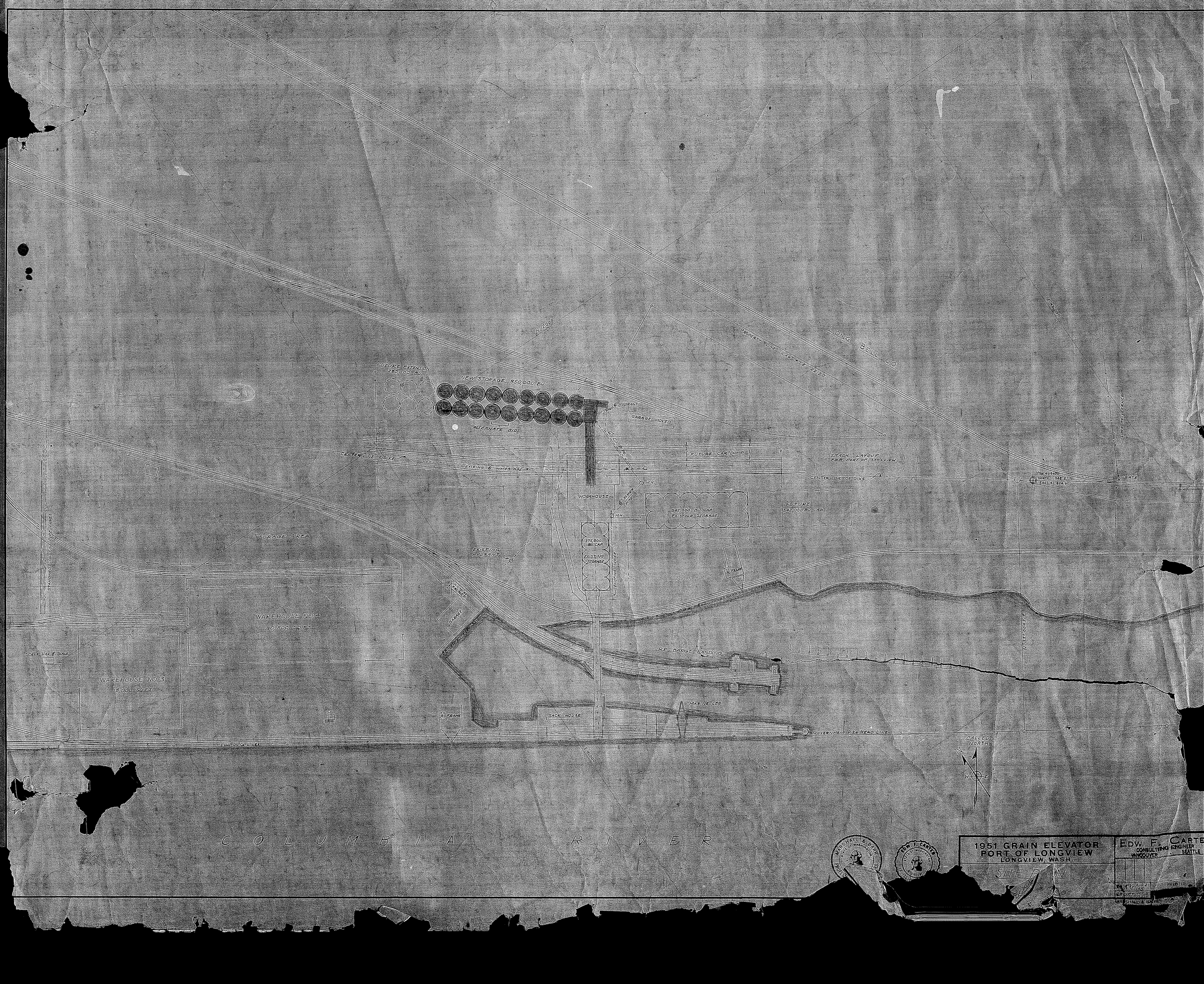
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

DRAWING NUMBER
B518

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

DRAWING N

PLAN HOLD CORPORATION
REORDER BY NUMB



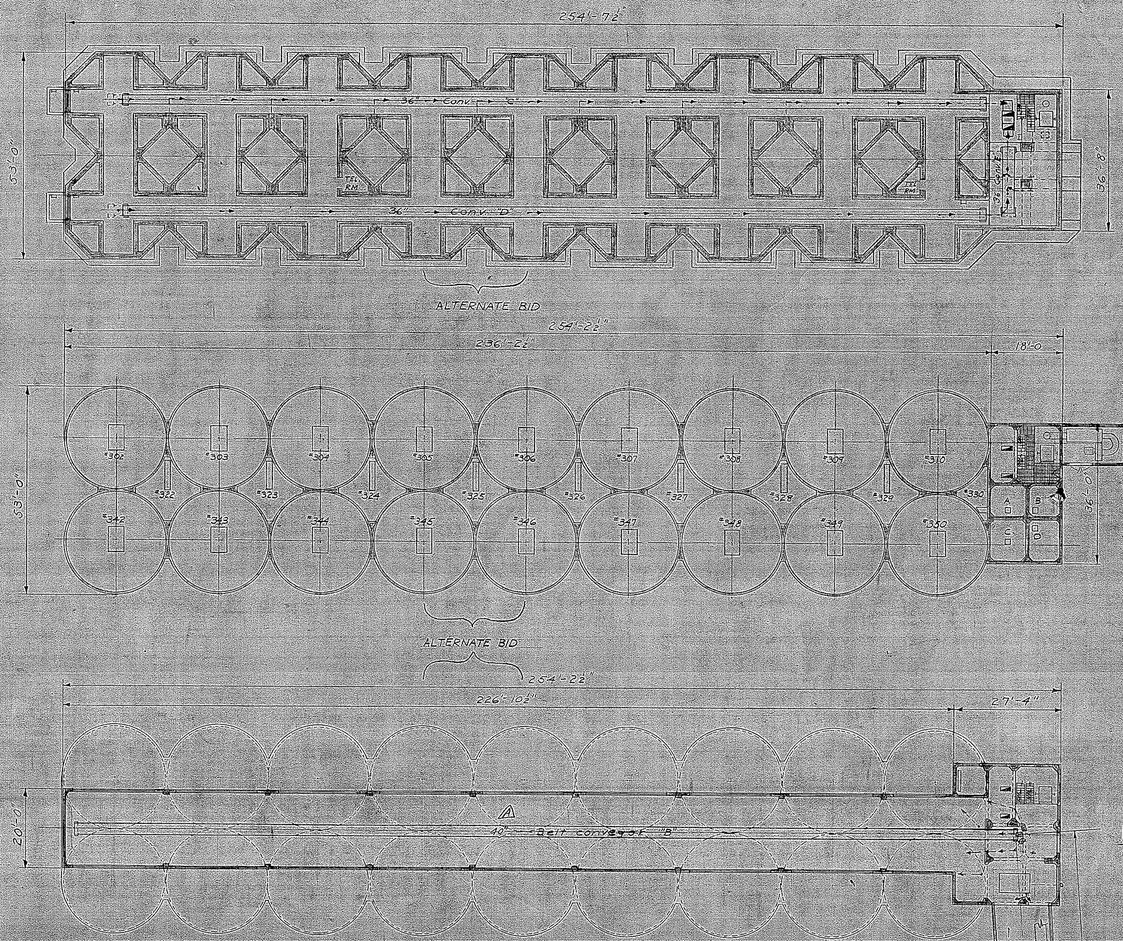
1951 GRAIN ELEVATOR
PORT OF LONGVIEW
LONGVIEW, WASH

SITE PLAN

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER SEATTLE

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 07548

DRAWING NUMBER
B521
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 07548



BASEMENT PLAN
Elev. + 10'-9"

GROUND FLOOR PLAN
Elev. + 26'-0"

BIN FLOOR PLAN
Elev. + 129'-9"

CAPACITY TABLE

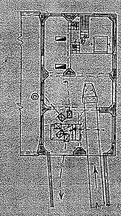
STORAGE
18 bins at 41,000 Bu. = 738,000 Bu.
8 bins at 10,000 Bu. = 80,000 Bu.
1 bin at 5,000 Bu. = 5,000 Bu.
823,000 Bu.

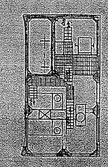
HEAD HOUSE
2 Washer bins 8,000 Bu.
5,500 Bu.
2 Storage bins 4,500 Bu.
7,000 Bu.
25,000 Bu.
TOTAL 848,000 Bu.

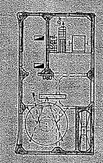
ALTERNATE BID

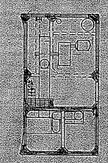
STORAGE
16 @ 41,000 = 656,000 Bu.
7 @ 10,000 = 70,000 Bu.
1 @ 5,000 = 5,000 Bu.
731,000 Bu.

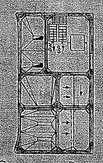
HEAD HOUSE 25,000 Bu.
TOTAL 736,000 Bu.

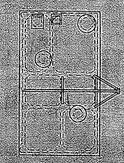

CONVEYOR FLOOR
Elev. + 141'-0


TOP FLOOR
Elev. + 194'-0


SCALE FLOOR
Elev. + 152'-3"


HEAD FLOOR
Elev. + 207'-6"


GARNER BINS
Elev. + 174'-3"


ROOF PLAN
Elev. + 214'-9"

N

MARSHALL & BARR PROFESSIONAL ENGINEER REGISTERED STATE OF WASHINGTON

EDW. F. CARTER REGISTERED PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA

1951 GRAIN ELEVATOR
PORT OF LONGVIEW
LONGVIEW, WASH.

PLANS

SCALE: 1/8"=1'-0"

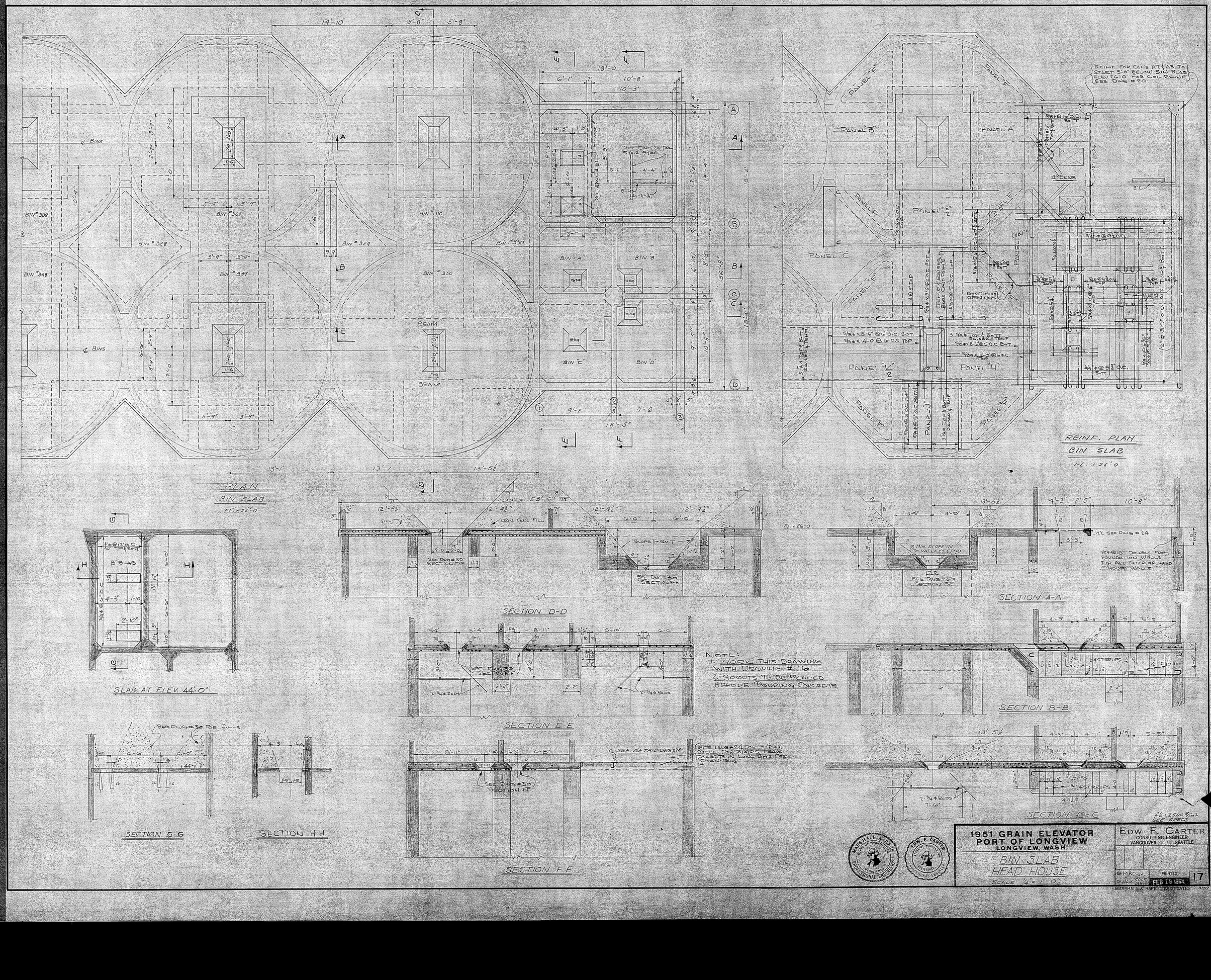
EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER SEATTLE

SHEETS
PRINTED 4

MARSHALL & BARR ASSOCIATES

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

DRAWING NUMBER
B534
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR



1951 GRAIN ELEVATOR PORT OF LONGVIEW	EDW. F. CARTER CONSULTING ENGINEER VANCOUVER SEATTLE
LONGVIEW, WASH.	
BIN SLAB HEAD HOUSE	
SCALE 1/4"=1'-0"	DR I.M.B.COOK CK ALK PRINTED FEB 19 1954
	17
MARSHALL & BARR ASSOCIATES	

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

B535

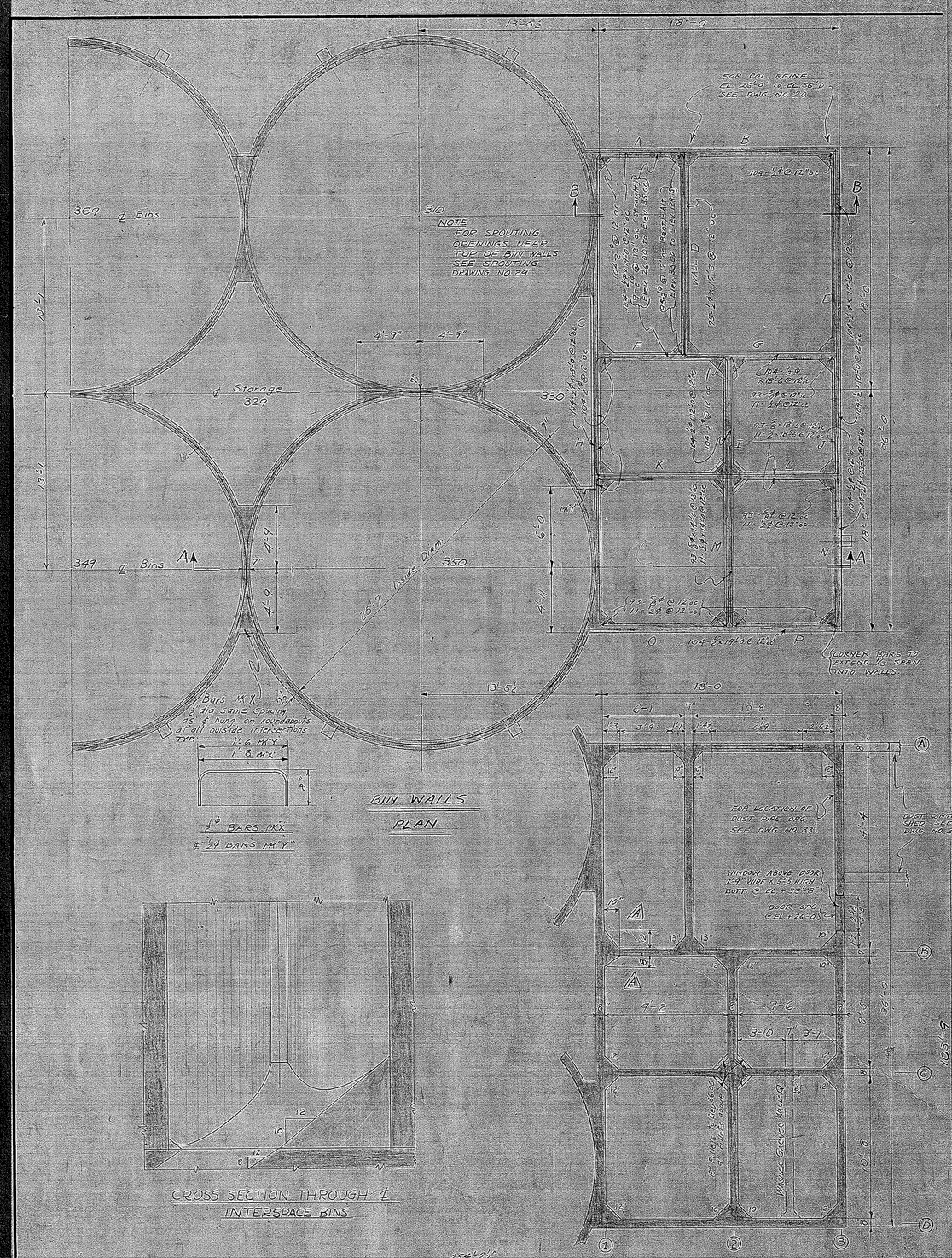
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

REORDER BY NUMBER 075AR

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIF

REORDER BY NUMBER 075AR



STORAGE BIN NOTES

Roundabouts to be placed in horizontal rings. Each course to consist of 4 bars 55'-6" in making each lap about 3'-0" in keeping roundabouts place the ends on top of one another not side by side and break joints so that in no case will joints of adjoining courses come together.

Roundabouts must be placed outside of jack-rods and wired to them so that there will be no danger of roundabouts getting out of place during pouring of concrete.

Jack rods to be not less than 1" diameter. There are to be at least 8 jack rods per bin. Number and location of jack-rods to be approved by the Engineer before pouring is commenced. On outside walls 5-2 1/2" vertical rods to be equally spaced between each pair of jack rods. These 2 rods to be kept 1 apart at splices.

Bin wall Concrete: f'c = 2500 lb per sq in min 6 sacks/cu yd = see spec.

HEAD HOUSE NOTES

CONCRETE

f'c = 2500 lb per sq in min 6 sac/c yd

REINFORCING

All reinforcing to be deformed structural grade.

All horizontal head house wall reinforcing to be secured to be continuous except where shown near the edge of the wall. Reinforcing in walls A-B & E to be placed on the ℄ of the wall.

Vertical reinforcing to be ℄ 8" oc in the corner walls only and may be omitted where jack rods are. The vertical reinforcing bars 5/8" to be placed halfway in each side of all openings & extending 8" above and below the openings. 5-5/8" x 4'-0" to be placed diagonally across the corners of all openings.

FILLETS

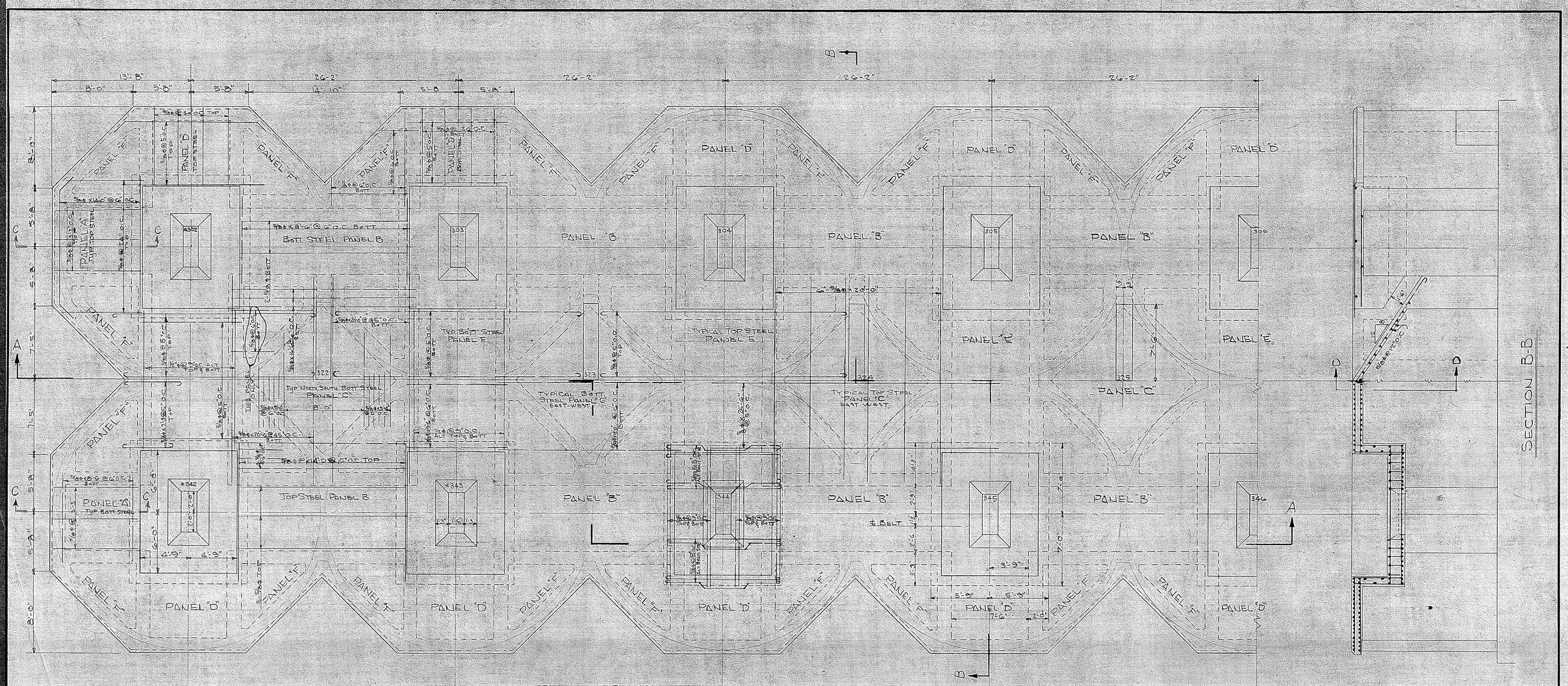
Enlarged fillets as shown at 32 to extend from roof & the bin slab to elev. 136'-0" then sloped 45° to the normal filler size.

1951 GRAIN ELEVATOR PORT OF LONGVIEW LONGVIEW, WASH.	EDW. F. CARTER CONSULTING ENGINEER VANCOUVER SEATTLE
BIN WALLS	DRAWN CHECKED APPROVED
SCALE 1/4"=1'-0"	DATE 1951 SHEET 18

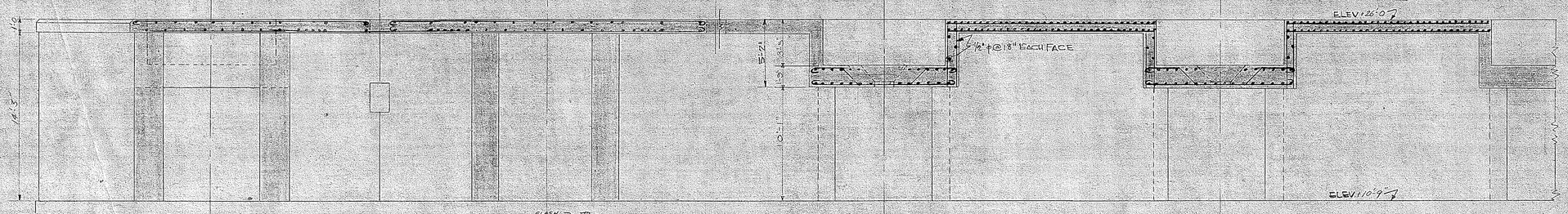
MARSHALL & BARNES, SEATTLE, WASH.

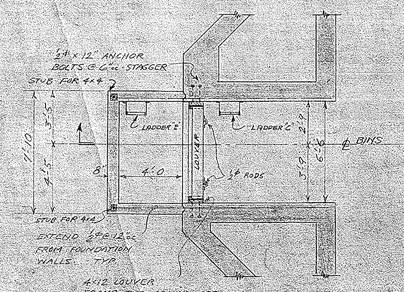
DRAWING NUMBER B533

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 07548

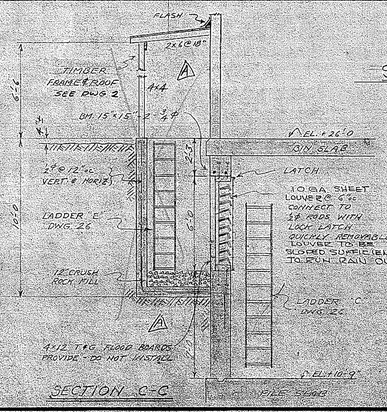


PLAN OF BIN SLAB



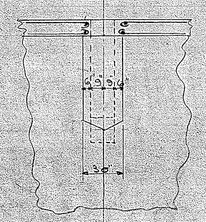


PLAN - DETAIL 'A'



SECTION C-C

SECTION A-A



SECTION D-D

NOTE:
- RAISER BARS TO BE FURNISHED EVEN THOUGH NOT SHOWN ON DRAWING

P_c = 2500 #/in²
SEE SPECS.

1951 GRAIN ELEVATOR
PORT OF LONGVIEW
LONGVIEW, WASH.

BIN SLAB STORAGE

SCALE 1/4"=1'-0"

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER SEATTLE

DR. M.S. Gowr
CH. J.M. Scott

PRINTED FEB 19 1954

16

MARSHALL & BARR - ASSOCIATES 31776

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

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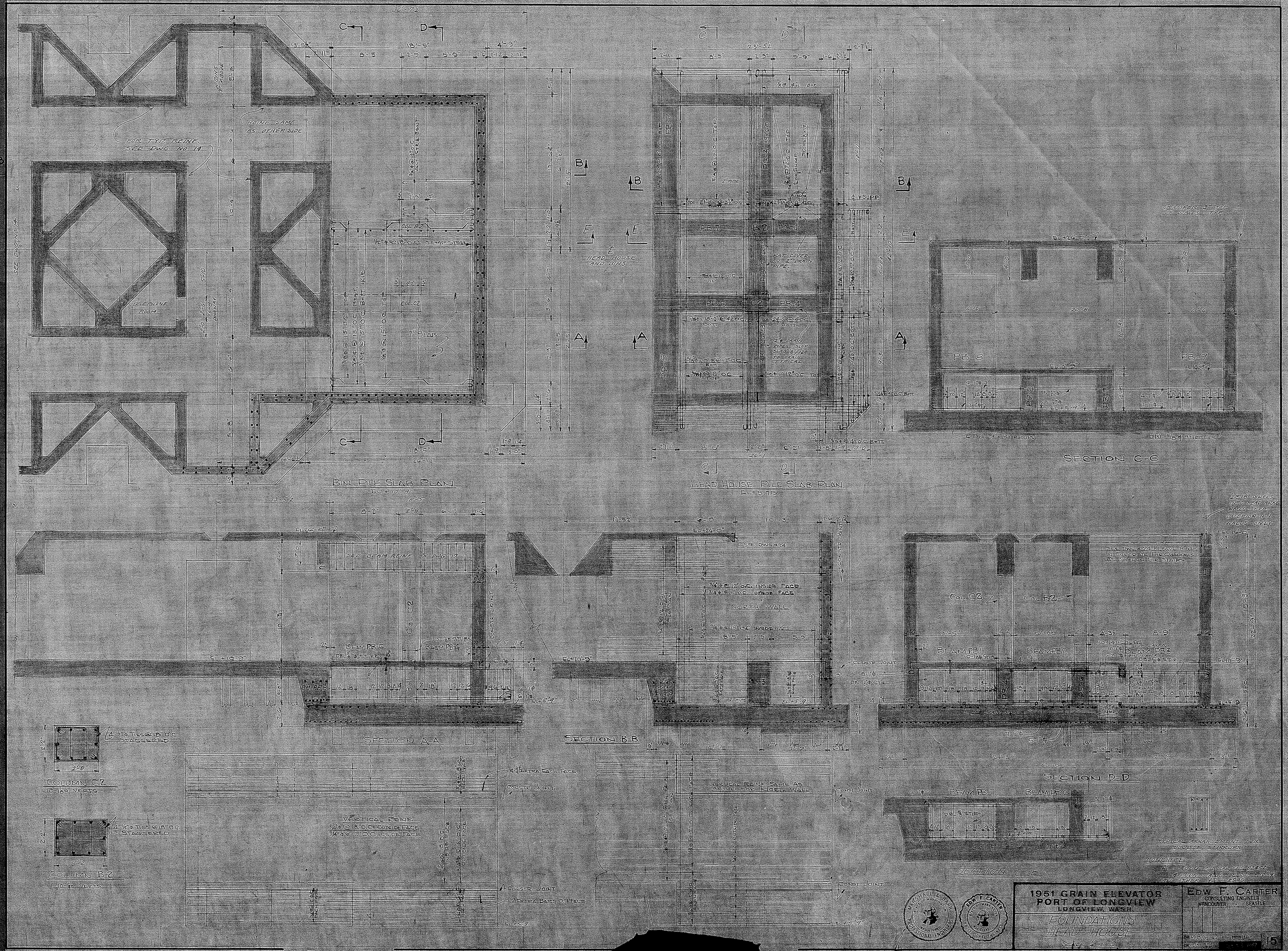
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

DRAWING NUMBER
B532

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

DRAWING NUMBER

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



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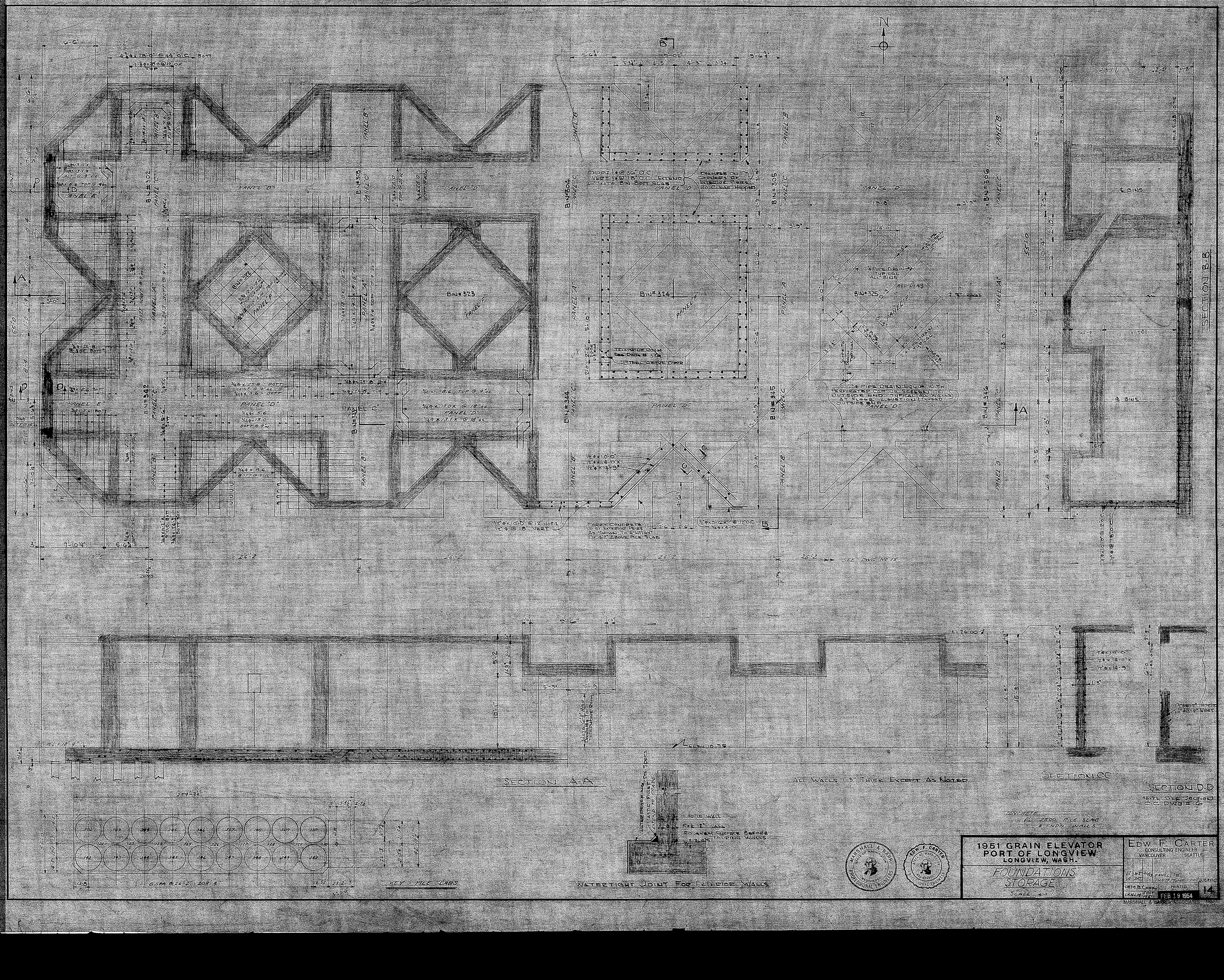
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REORDER BY NUMBER 0754R

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REORDER BY NUMBER 0754R

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PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 0754R

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B531
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REORDER BY NUMBER 0754R

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REORDER BY NUMBER 0754R



1951 GRAIN ELEVATOR
PORT OF LONGVIEW
LONGVIEW, WASH.

FOUNDATIONS
STORAGE

SCALE 1/4" = 1'-0"

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER SEATTLE

DRN. B.C. CHK'D. PRINTER
CHK'D. BY
FEB 19 1954

14

MARSHALL & EMERY ASSOCIATES

DRAWING NUMBER

DRAWING NUMBER

DRAWING NUMBER

DRAWING NUMBER

DRAWING NUMBER
B530

DRAWING NUMBER

PLAN
BELT FLOOR EL. 120'-0

PLAN
DISTRIBUTING FLOOR EL. 128'-0

SECTION A-A

SECTION B-B

SECTION C-C

SECTION D-D

SECTION

1951 GRAIN ELEVATOR
PORT OF LONGVIEW
LONGVIEW, WASH.

CONNECTION TO
EXISTING WORK HOUSE

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER, WASH. SEATTLE

13

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REORDER BY NUMBER 075AR

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

REORDER BY NUMBER 075AR

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PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

REORDER BY NUMBER 075AR

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

REORDER BY NUMBER 075AR

DRAWING NUMBER B529

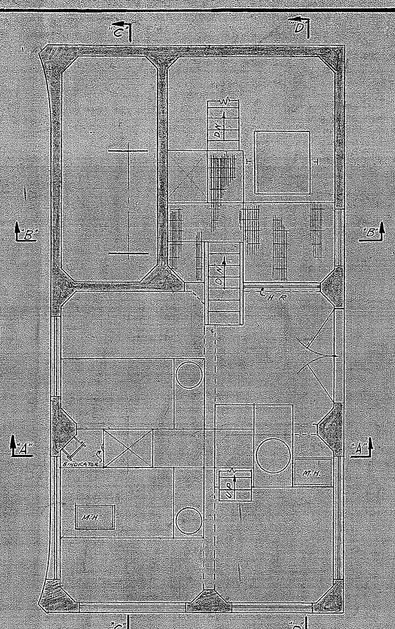
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

REORDER BY NUMBER 075AR

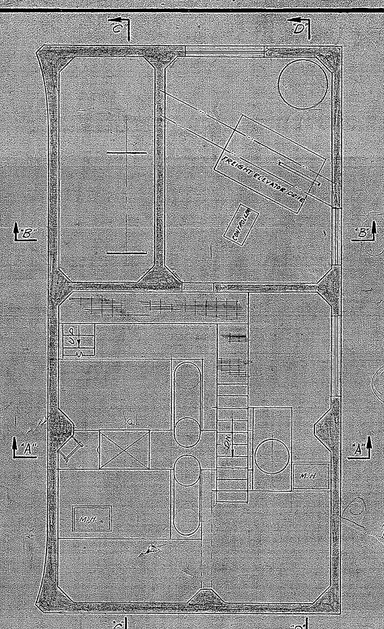
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PLAN HOLD CORPORATION • IRVINE, CALIF

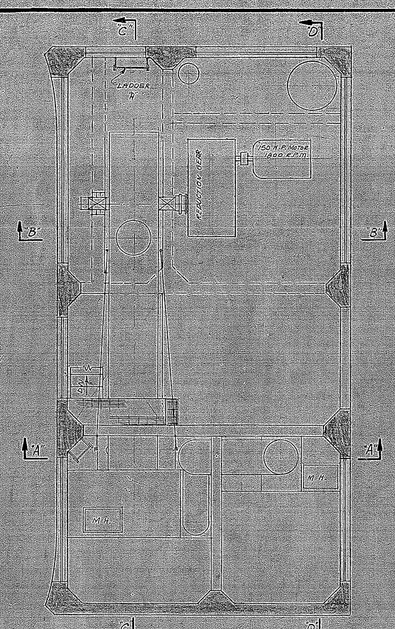
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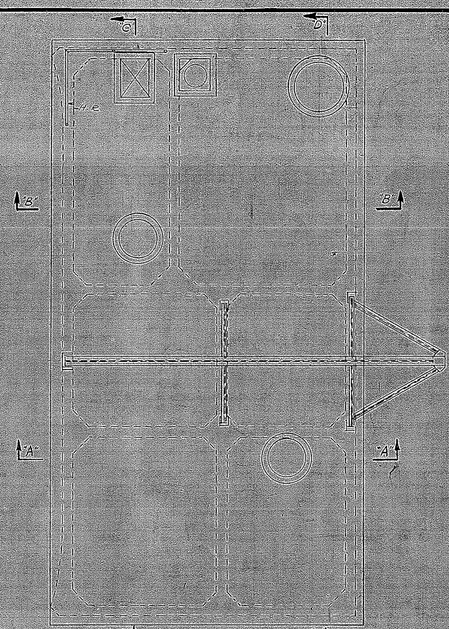
TOP FLOOR PLAN ELEV. 194.1'



FREIGHT ELEVATOR FLOOR
ELEV. 202.3'



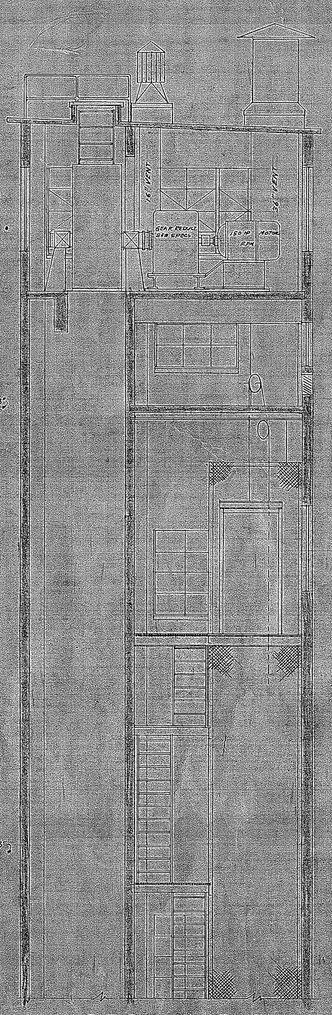
HEAD FLOOR ELEV. 209.6'



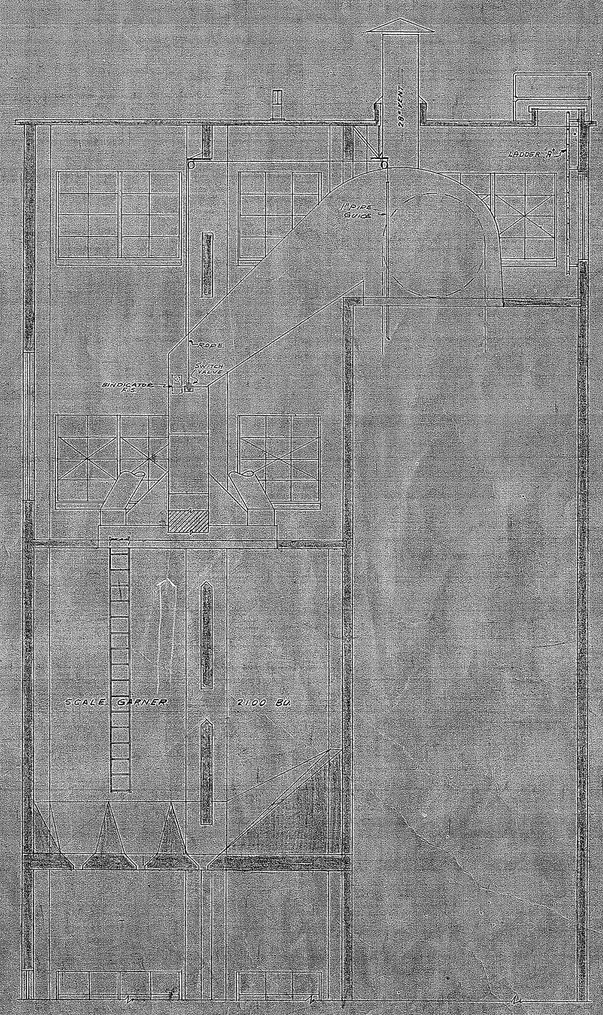
ROOF MIN. ELEV. 219.9'



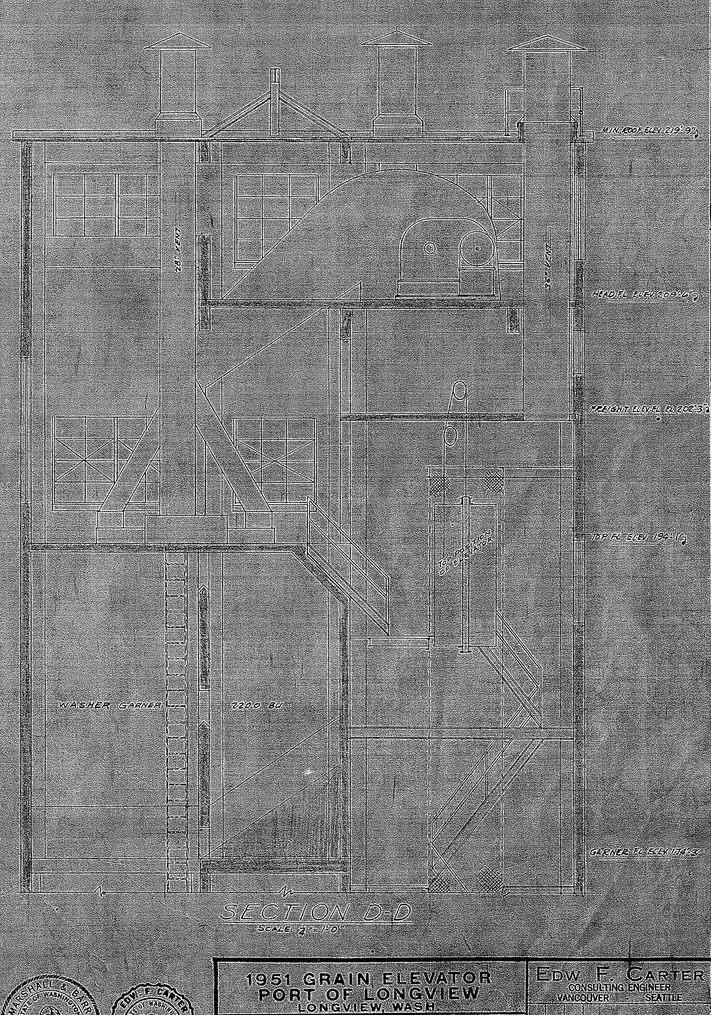
SECTION A-A
SCALE 1/4" = 1'-0"



SECTION B-B
SCALE 1/4" = 1'-0"



SECTION C-C
SCALE 1/4" = 1'-0"



SECTION D-D
SCALE 1/4" = 1'-0"

MARSHALL E. CARTER REGISTERED PROFESSIONAL ENGINEER

EDW. F. CARTER REGISTERED PROFESSIONAL ENGINEER

1951 GRAIN ELEVATOR
PORT OF LONGVIEW
LONGVIEW WASH.

TOP FLOORS
HEAD HOUSE
SCALE 1/4" = 1'-0"

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER SEATTLE

DR.
CK.
PRINTED
12

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 07SAR

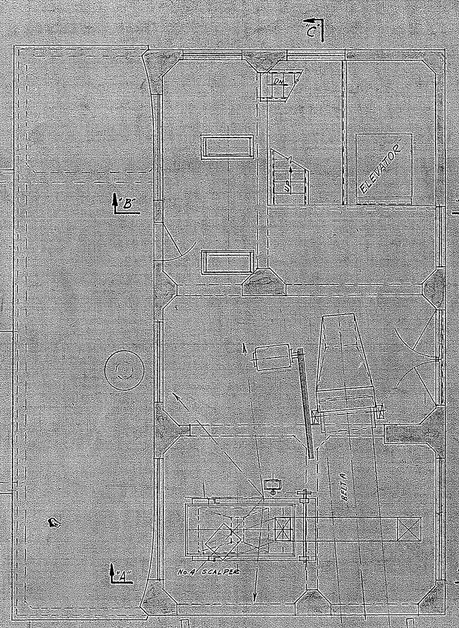
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REORDER BY NUMBER 07SAR

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REORDER BY NUMBER 07SAR

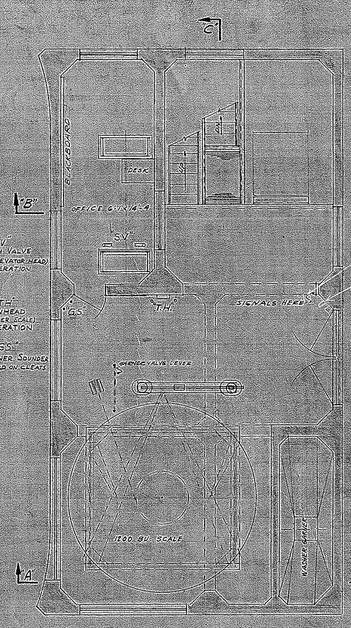
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REORDER BY NUMBER 07SAR

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PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 07SAR

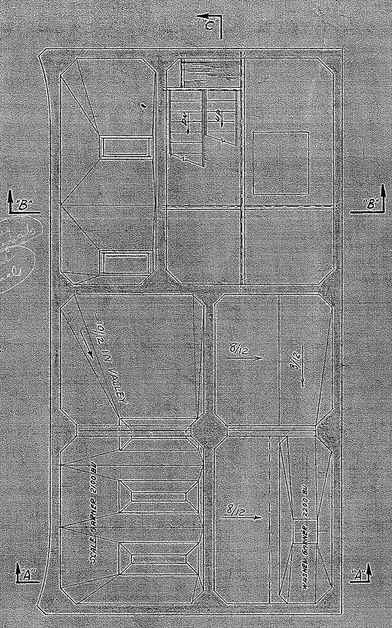
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REORDER BY NUMBER 07SAR



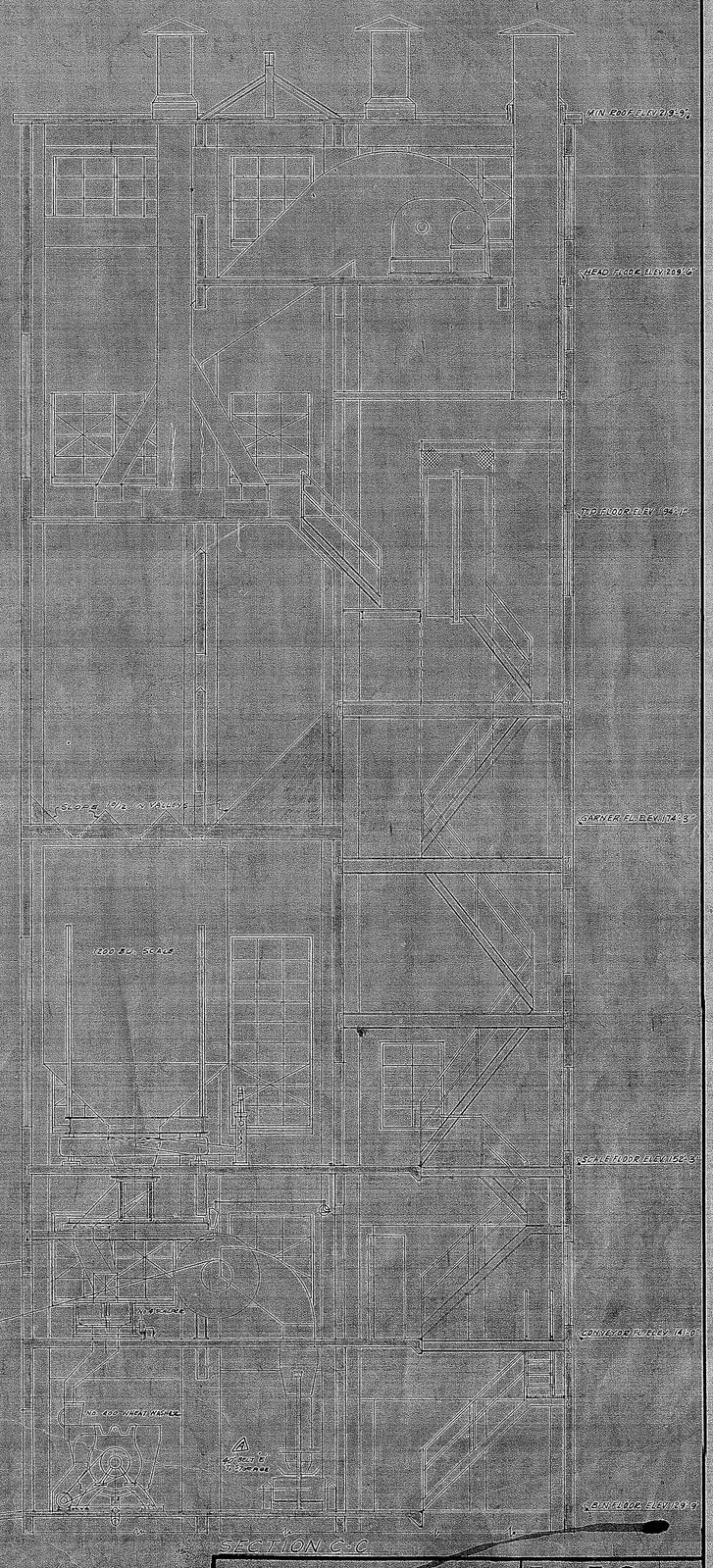
CONVEYOR FLOOR
ELEV. 141'-0"



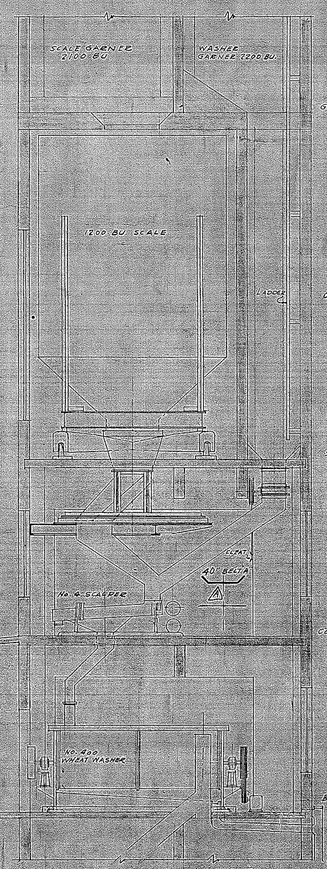
SCALE FLOOR
ELEV. 152'-3"



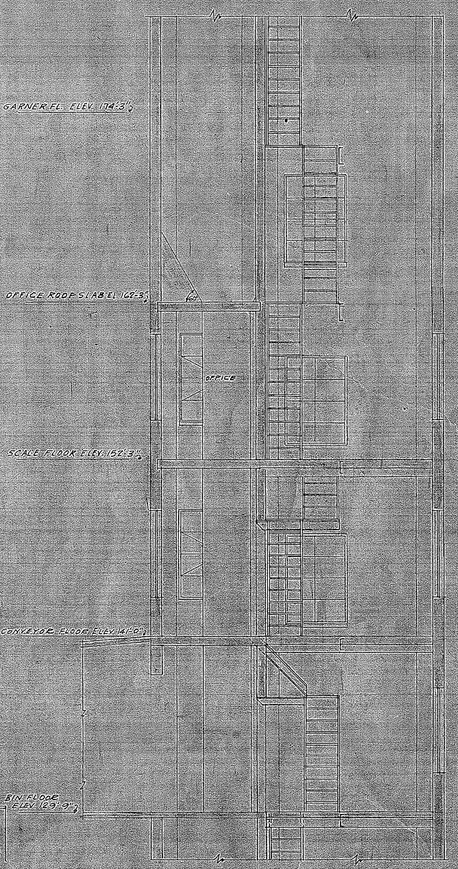
GARNERS
ELEV. 174'-3" (Top of Slab)



SECTION C-C



SECTION A-A



SECTION B-B

MARSHALL & BARR PROFESSIONAL ENGINEERS REGISTERED WASHINGTON

EDW. F. CARTER REGISTERED PROFESSIONAL ENGINEER STATE OF WASHINGTON

1951 GRAIN ELEVATOR
PORT OF LONGVIEW
LONGVIEW, WASH.

SCALE FLOOR
HEAD HOUSE
SCALE 1/4" = 1'-0"

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER - SEATTLE

1	7/14/51	ADD'S "A" & "B" SECTION
DR.	CH.	PRINTED
CK'D.	APP'D.	

11

MARSHALL & BARR ASSOCIATES

DRAWING NUMBER

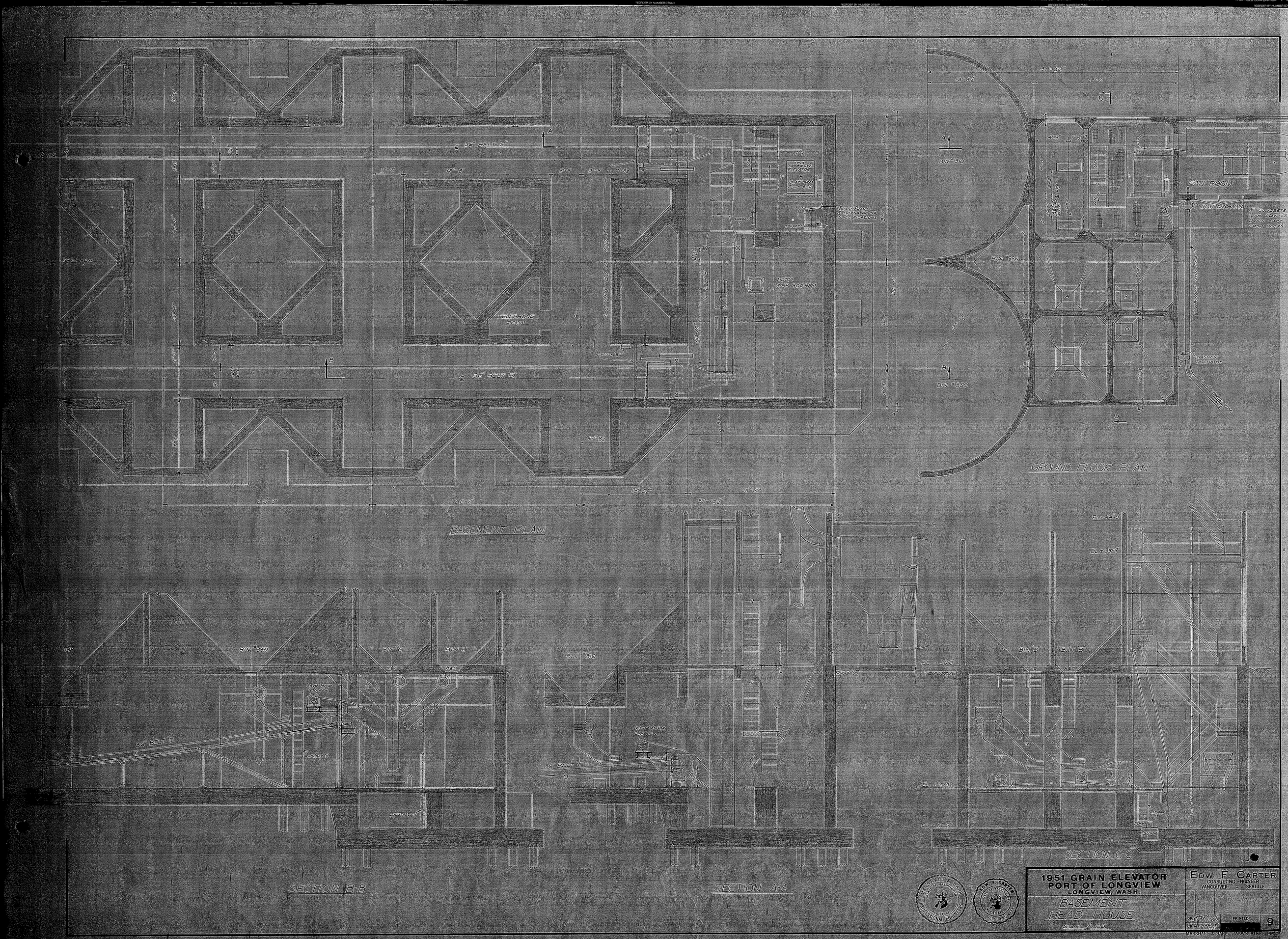
DRAWING NUMBER

DRAWING NUMBER

DRAWING NUMBER

DRAWING NUMBER
B526

DRAWING NUMBER



1951 GRAIN ELEVATOR
PORT OF LONGVIEW
LONGVIEW WASH.

BASEMENT
HEAD HOUSE

SCALE 1/16"

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER SEATTLE

DATE
SCALE 1/16"
PRINTED
9

MARSHALL & BANFIELD ASSOCIATES

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REORDER BY NUMBER 07548

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REORDER BY NUMBER 07548

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 07548

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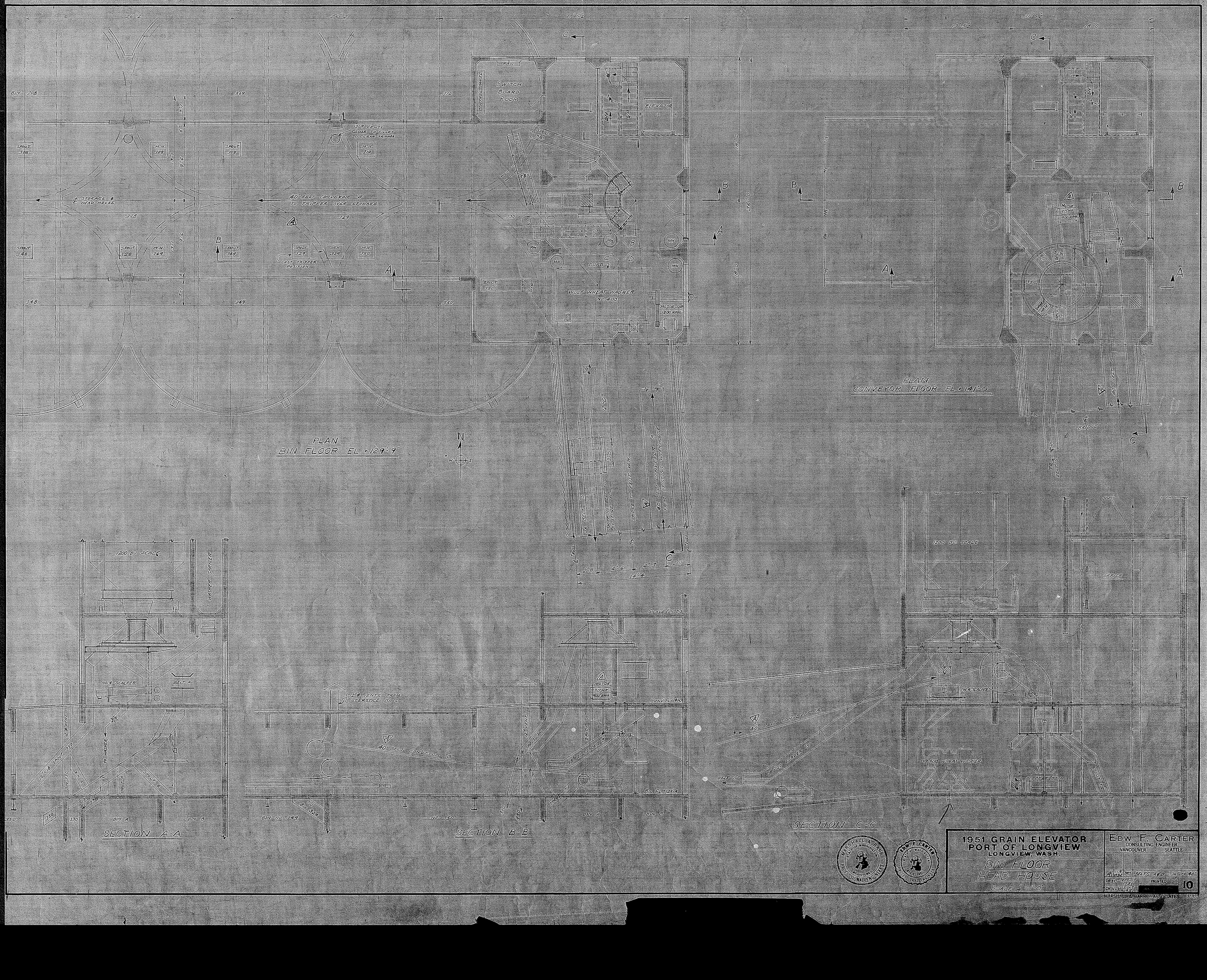
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 07548

DRAWING NUMBER
B527

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 07548

DRAWING NUMBER

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REORDER BY NUMBER 07548



1951 GRAIN ELEVATOR
PORT OF LONGVIEW
LONGVIEW, WASH.

BIN FLOOR
HEAD HOUSE

SCALE 1"=10'

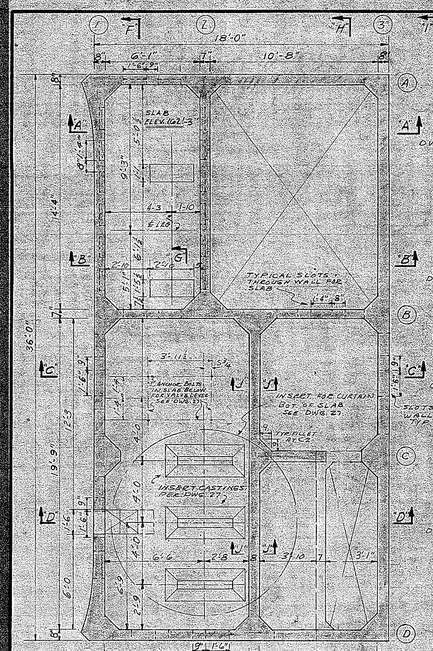
EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER SEATTLE

ALL PLANT SHEETS MEG 330-F40
DATE 1951 PRINTED
DRAWN BY
MARSHALL & PARR ASSOCIATES 3723

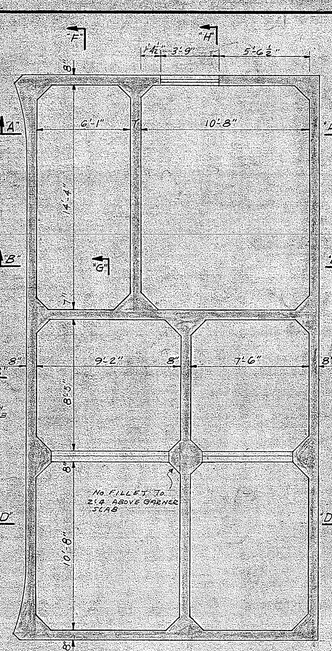
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REORDER BY NUMBER 0754R

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PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 0754R

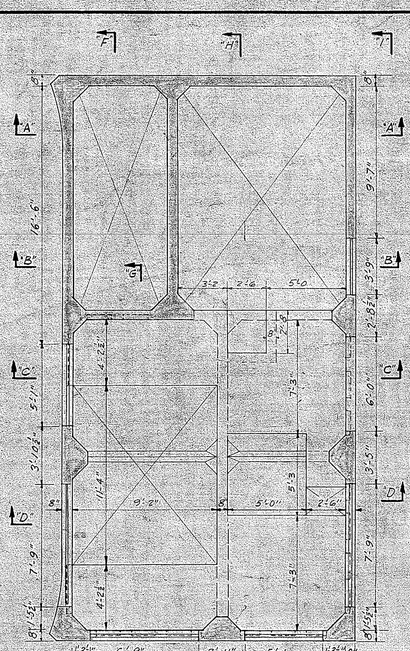


GARNER SLAB ELEV. 174'-3"
AND OFFICE ROOF ELEV. 162'-3"

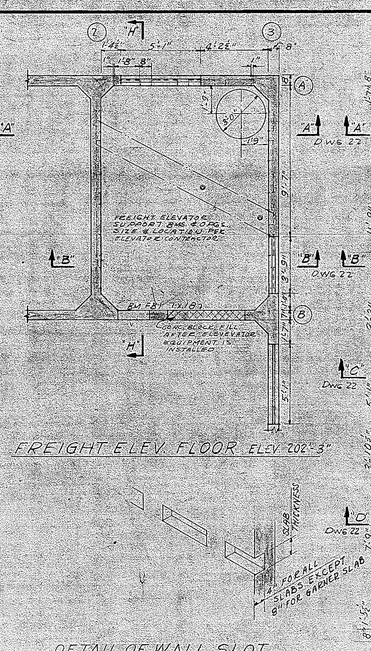


GARNER WALLS

NOTE
FOR SECTIONS F, G, & H, & ELEVATION 1
SEE DWG. NO. 22
FOR SECTIONS A, B, C, & D, & ELEVATION E
SEE DWG. NO. 22

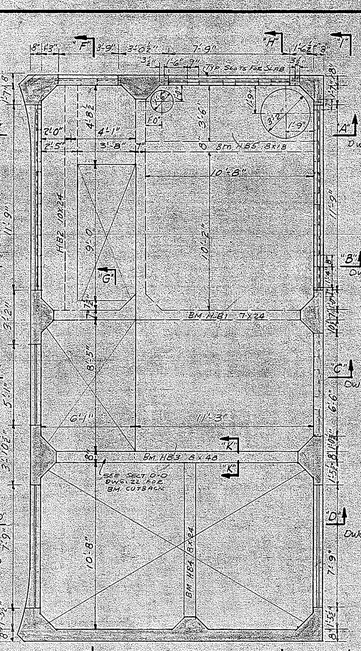


TOP FLOOR ELEV. 194'-1"

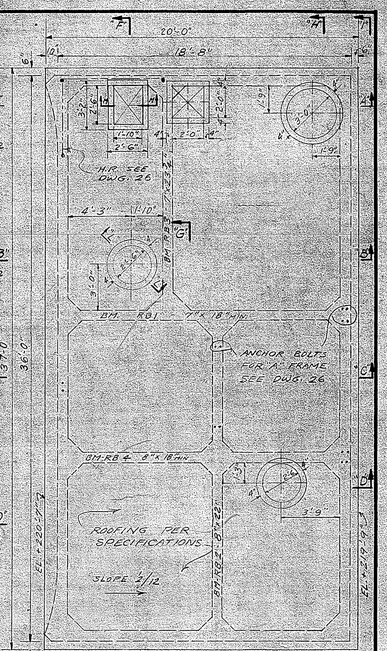


FREIGHT ELEV. FLOOR ELEV. 202'-3"

DETAIL OF WALL SLOT
No SCALE

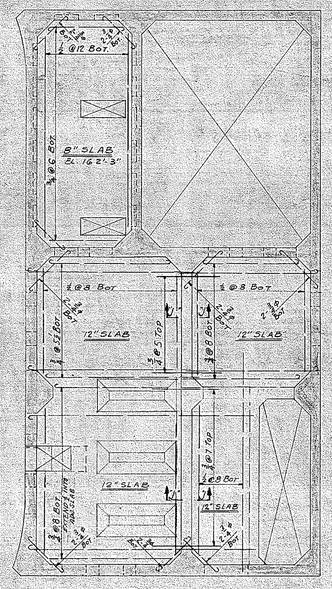


HEAD FLOOR ELEV. 209'-6"

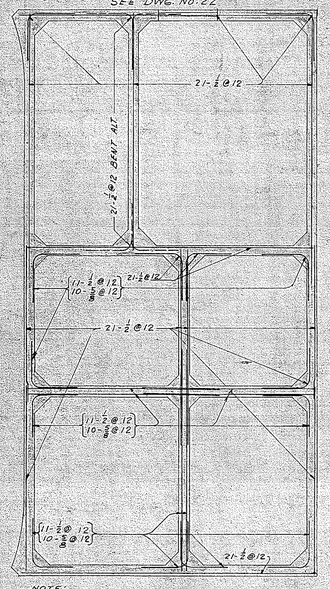


ROOF MIN. ELEV. 219'-9"

CUPOLA PLANS
SCALE: 1/4" = 1'-0"

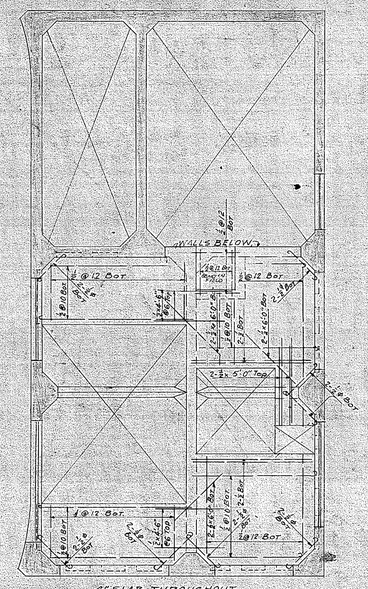


GARNER SLAB
EL. 174'-3

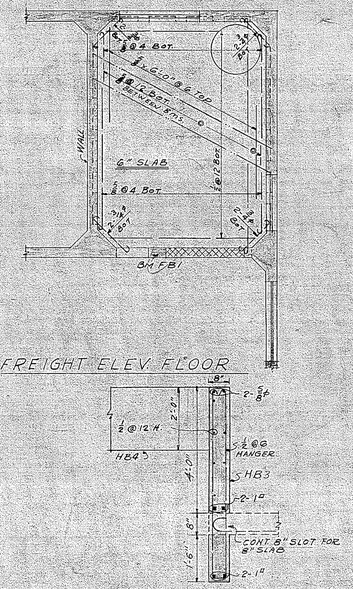


NOTE: ⅝ BARS EXTEND FROM ELEV. 174'-3" TO ELEV. 184'-3
ELEV. 184'-3 = ELEV. 196'-1
½

GARNER WALLS

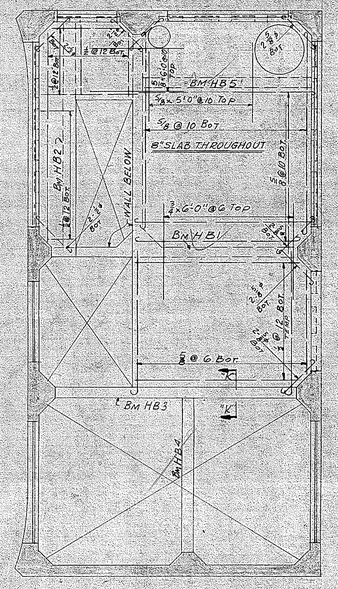


TOP FLOOR

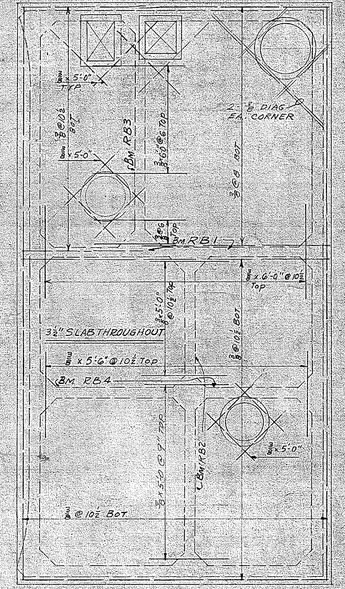


FREIGHT ELEV. FLOOR

SECTION "K-K"
SCALE: ½" = 1'-0"



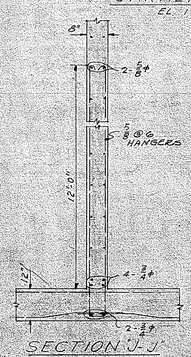
HEAD FLOOR



ROOF

REINFORCING DETAILS

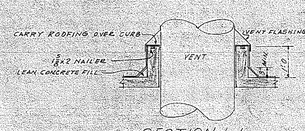
NOTE.
SECTS. A, B, C, D, & E ON DWG. 22
SECTS. F, G, H & I ON DWG. 23



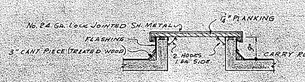
SECTION J-J
SCALE: ½" = 1'-0"

BEAM SCHEDULE

MARK	SIZE W.	SIZE D.	REINFORCING LONGITUDINAL NO.	LONGITUDINAL SIZE	LONGITUDINAL TYPE	STIRRUPS NO.	STIRRUPS SIZE	STIRRUPS SPACING
RB1	7.	18	2	¾	E. Top			
		27½	4	3/4	2 LAYERS, BOT.			
RB2	8.	22	2	⅝	E. Top			
			2	⅝	Bot. (2 LAYERS)			
RB3	7.	29½	2	¾	Bot.			
RB4	8.	18	2	⅝	E. Top			
		27½	2	⅞	Bot.			
HB1	7.	24	2	⅝	Top			
			2	⅞	Bot.	8	½	18@2@12, EA. END
HB2	10	24	2	⅝	Top			
			4	⅞	Bot. (2 LAYERS)			
HB3	8.	48	2	⅝	Top			
			2	1⅛	Bot	27	½	HANGERS @ 6
		18	2	1⅛	UNDER GIRT.			SEE SECTION K-K
HB4	8.	24	2	⅝	Top			
			2	⅞	Bot.			
HB5	8.	18	2	⅝	E. Top			
			2	¾	Bot.			
EB1	7.	18	2	⅝	Top			
			2	⅞	Bot.			



SECTION L-L
SCALE ½" = 1'-0"
TYP. VENT CURB DETAIL



SECTION M-M
SCALE ½" = 1'-0"
HATCH OPG. DETAIL

f'c = 2500 #/in²
SEE SPECIFICATIONS

1951 GRAIN ELEVATOR
PORT OF LONGVIEW
LONGVIEW, WASH.

CUPOLA DETAILS
PLANS 'B'
SCALE ½"=1'-0"

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER SEATTLE

DR. LJB
CK. MAT.
PRINTED FEB 19 1954
21

MARSHALL & BARR - ASSOCIATES 3/7/19

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

REORDER BY NUMBER 075AR

DRAWING NUMBER

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REORDER BY NUMBER 075AR

DRAWING NUMBER

B537

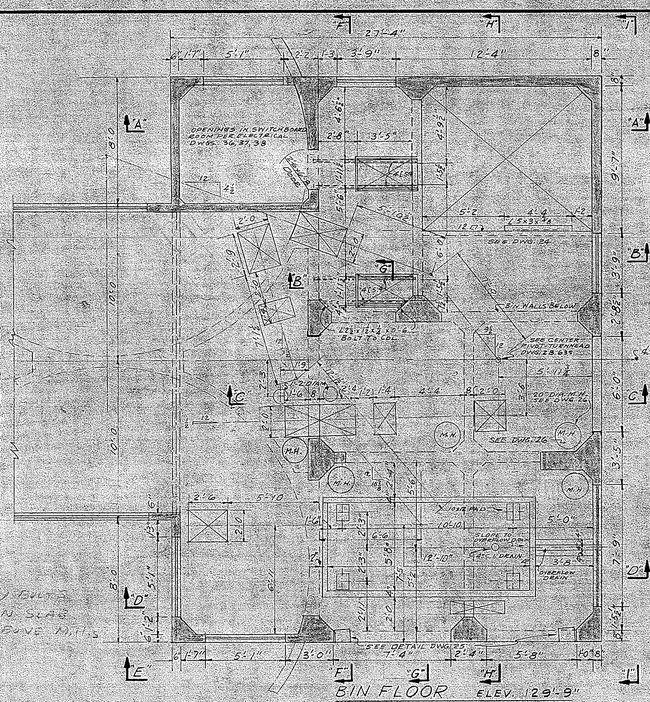
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

REORDER BY NUMBER 075AR

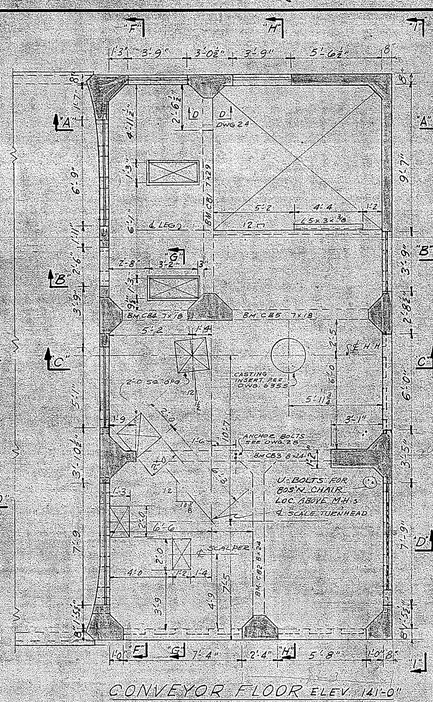
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PLAN HOLD CORPORATION • IRVINE, CALIF

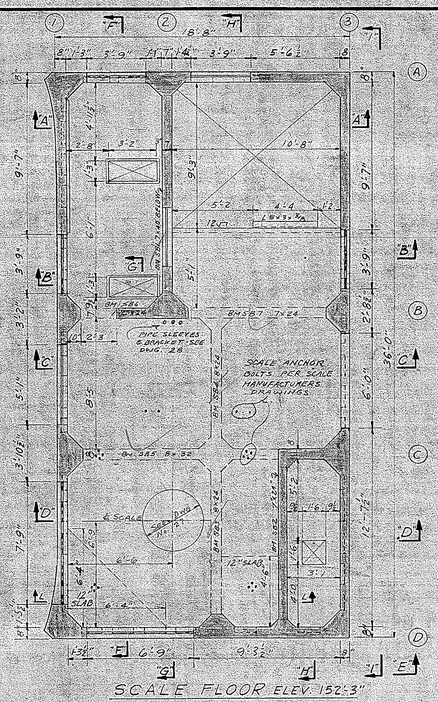
REORDER BY NUMBER 075AR



BIN FLOOR ELEV. 129'-9"



CONVEYOR FLOOR ELEV. 141'-0"



SCALE FLOOR ELEV. 152'-3"

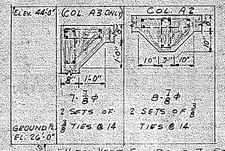
CUPOLA FLOOR PLANS

SCALE $\frac{1}{4}$"=1'-0"

NOTE:
FOR SECTIONS A, B, C & D AND ELEVATION 'E' SEE DWG. NO. 22
FOR SECTIONS F, G, & H, AND ELEVATION 'I' SEE DWG. NO. 23

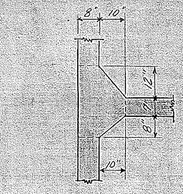
COLUMN SCHEDULE

COL ELEV.	A1, A3	A2	D1, D3	B3	B2	C1	C3	D2
EL. 194'-0" & EL. 179'-0"	A1 ELEV. 220'-0" A3 ELEV. 218'-9"	ELEV. 179'-11"	D1 ELEV. 220'-0" D3 ELEV. 219'-9"	B3 ELEV. 220'-0" B5 ELEV. 218'-9"	ELEV. 209'-6"	EL. 220'-11" & 218'-9"	EL. 219'-9"	EL. 219'-9"
TOP FL. ELEV. 194'-0"	4-$\frac{7}{8}\phi$ 2 SETS OF $\frac{3}{8}$ TIES @ 12	4-$\frac{7}{8}\phi$ 2 SETS OF $\frac{3}{8}$ TIES @ 14	4-$\frac{7}{8}\phi$ 2 SETS OF $\frac{3}{8}$ TIES @ 12	4-$\frac{7}{8}\phi$ 2 SETS OF $\frac{3}{8}$ TIES @ 14	4-$\frac{7}{8}\phi$ 2 SETS OF $\frac{3}{8}$ TIES @ 12	4-$\frac{7}{8}\phi$ 2 SETS OF $\frac{3}{8}$ TIES @ 14	4-$\frac{7}{8}\phi$ 2 SETS OF $\frac{3}{8}$ TIES @ 14	4-$\frac{7}{8}\phi$ 2 SETS OF $\frac{3}{8}$ TIES @ 14
	EL. 191'-1" NOTE: VERT. COL REINF. TO START AT EL. 191'-1" TIES @ 194'-0"							
	FOR REINFORCING SEE GARNER WALLS DWG. NO. 21							
GARNER FL. ELEV. 14'-3"	EL. EV. 177'-3" NOTE: VERT. COL REINF. TO EXTEND TO EL. 179'-11" TIES TO STOP AT EL. 194'-0"							
	8-$\frac{7}{8}\phi$ 2 SETS OF $\frac{3}{8}$ TIES @ 14	8-$\frac{7}{8}\phi$ 2 SETS OF $\frac{3}{8}$ TIES @ 14	7-$\frac{7}{8}\phi$ 2 SETS OF $\frac{3}{8}$ TIES @ 14	7-$\frac{7}{8}\phi$ 2 SETS OF $\frac{3}{8}$ TIES @ 14	8-$\frac{7}{8}\phi$ 2 SETS OF $\frac{3}{8}$ TIES @ 14	8-$\frac{7}{8}\phi$ 2 SETS OF $\frac{3}{8}$ TIES @ 14	4-$\frac{7}{8}\phi$ 2 SETS OF $\frac{3}{8}$ TIES @ 14	6-$\frac{7}{8}\phi$ 2 SETS OF $\frac{3}{8}$ TIES @ 14
SCALE FL. EL. 152'-3"	7-$\frac{7}{8}\phi$ 2 SETS OF $\frac{3}{8}$ TIES @ 14	8-$\frac{7}{8}\phi$ 2 SETS OF $\frac{3}{8}$ TIES @ 14	7-$\frac{7}{8}\phi$ 2 SETS OF $\frac{3}{8}$ TIES @ 14	7-$\frac{7}{8}\phi$ 2 SETS OF $\frac{3}{8}$ TIES @ 14	8-$\frac{7}{8}\phi$ 2 SETS OF $\frac{3}{8}$ TIES @ 14	10-$\frac{7}{8}\phi$ 3 SETS OF $\frac{3}{8}$ TIES @ 14	10-$\frac{7}{8}\phi$ 3 SETS OF $\frac{3}{8}$ TIES @ 14	6-$\frac{7}{8}\phi$ 2 SETS OF $\frac{3}{8}$ TIES @ 14
BIN FL. EL. 129'-9"	NOTE: VERT. COL REINF. TO START AT EL. 126'-9" TIES @ 129'-9"							



NOTE: VERT. COL REINF. TO START @ EL. 23'-0, TIES @ 24'-0

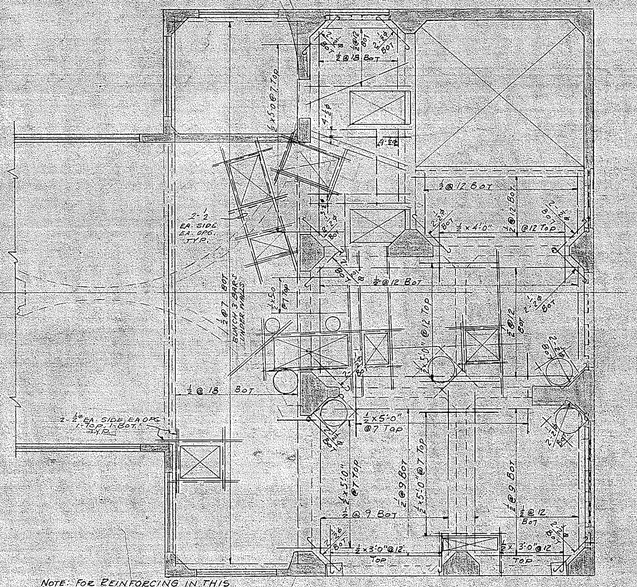
NOTE:
MIN. COVER 1½" TO TIES.
LAP VERTICALS 32 BAR DIAM.



COL B-1

REINF. SAME AS FOR B-3

A


2-1" DIA. SIDE RODS 1'-0" C-TO-C BOT. TYP.
2-1" DIA. SIDE RODS 1'-0" C-TO-C TOP TYP.
1-1" DIA. ROD 1'-0" C-TO-C TYP.
2-1" DIA. SIDE RODS 1'-0" C-TO-C BOT. TYP.
1-1" DIA. ROD 1'-0" C-TO-C

DRAWING NUMBER B536

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

REORDER BY NUMBER 075AR

CUPOLA ROOF PLAN

1/8" = 1'-0"

CUPOLA FLOOR PLAN

SECTION F-F

1" = 1'-0"

DETAIL OF PIERS FOR BELT ROLLS AND TRIPPER RAILS

SECTION A-A OF CUPOLA SLAB

TYPICAL ELEVATION OF CUPOLA WALLS

1/4" = 1'-0"

ELEVATION OF WEST WALL

1/4" = 1'-0"

DETAIL OF WINDOWS FOR CUPOLA WALLS

PLAN C-C

FLASHING ROOF TO WALL

TYPICAL SECTION THROUGH ROOF BEAM

DETAILS OF CUPOLA COLUMNS

TYPICAL SECTION B-B

1/4" = 1'-0"

SECTION E-E

REFERENCE DRAWINGS

1. DWG # 20 - CUPOLA DETAILS - PLANS "A"
2. DWG # 23 - BIN WALLS
3. DWG # 26 - MISC. STEEL

F'c = 2500 #/in²
SEE SPECIFICATIONS

1951 GRAIN ELEVATOR PORT OF LONGVIEW LONGVIEW, WASH.	EDW. F. CARTER CONSULTING ENGINEER VANCOUVER SEATTLE
CUPOLA DETAILS STORAGE SCALE 1"=1'-0"	DR M.B. COOK PRINTED CK'D 11-18-53 FEB 10 1954 MARSHALL & RARRIS ASSOCIATES 53/12

19

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 07548

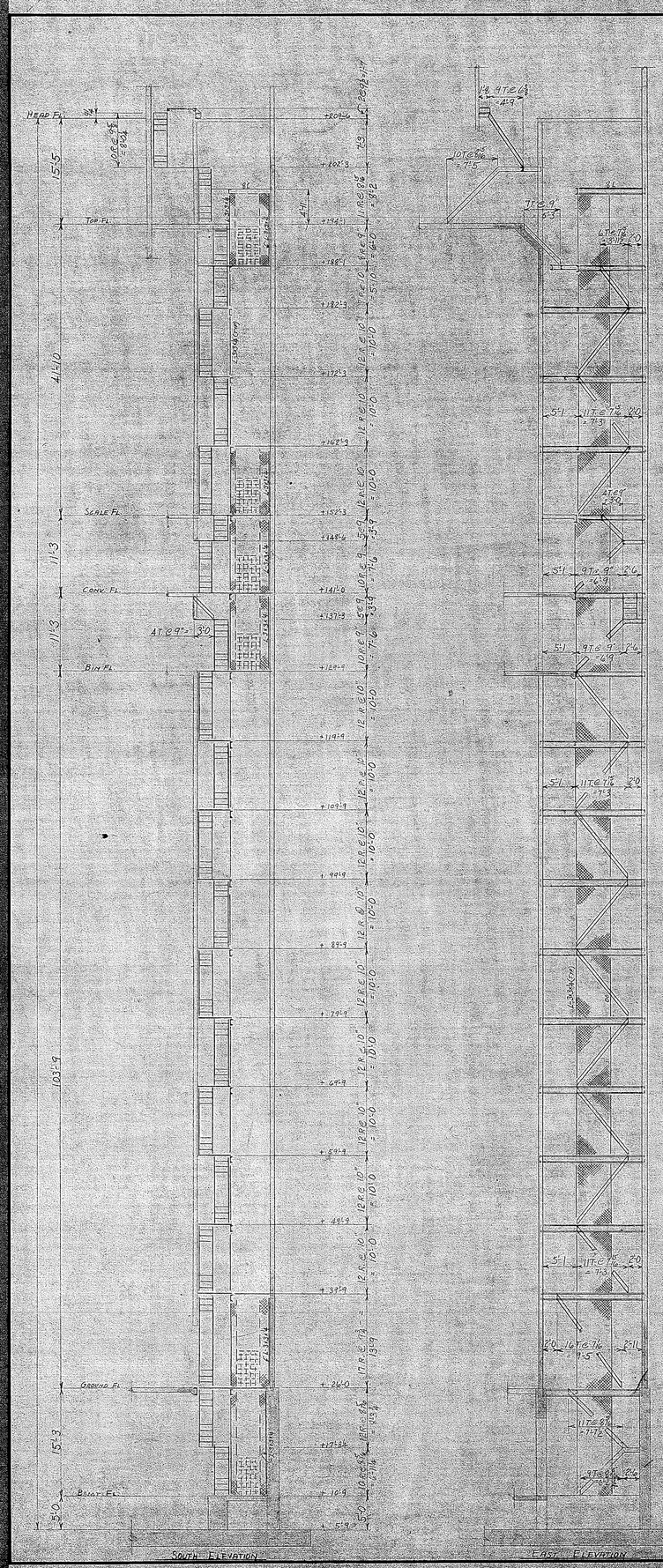
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REORDER BY NUMBER 07548

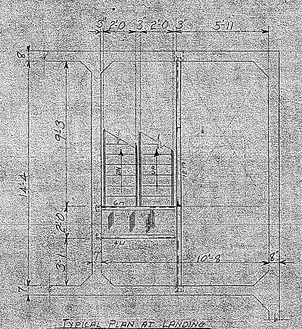
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REORDER BY NUMBER 07548

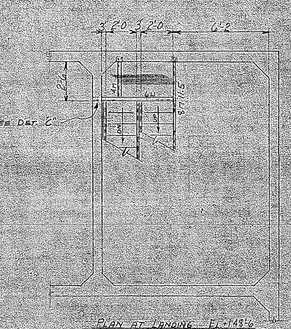
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PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
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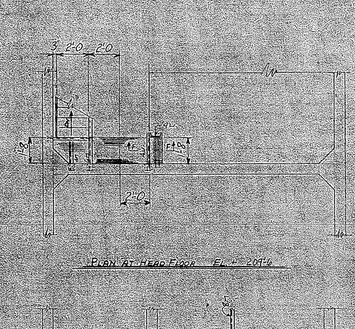
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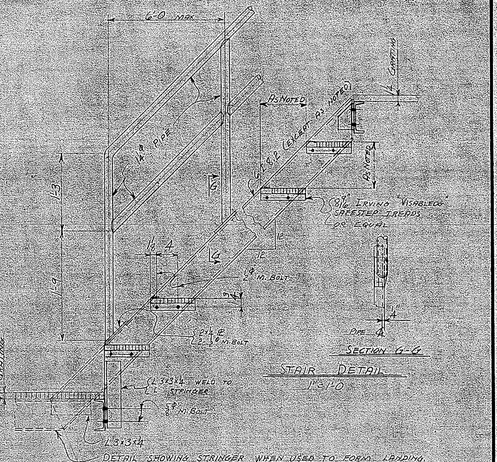
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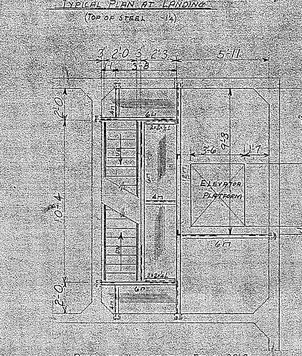


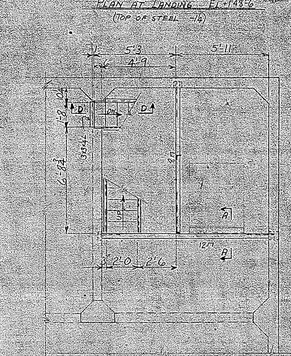


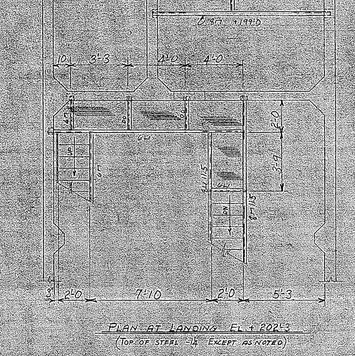


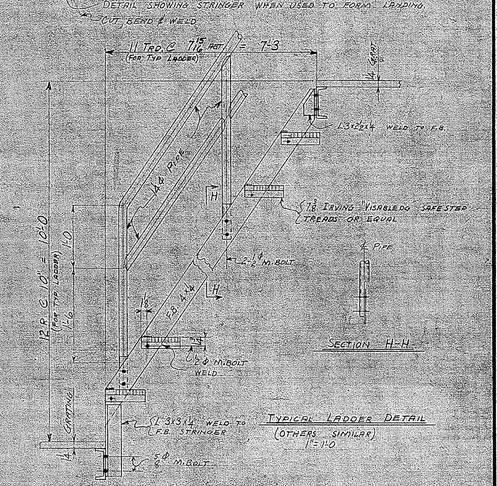


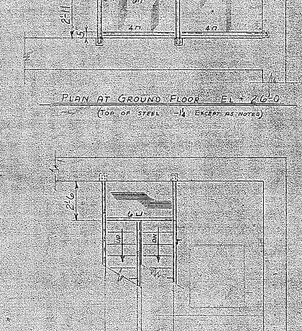


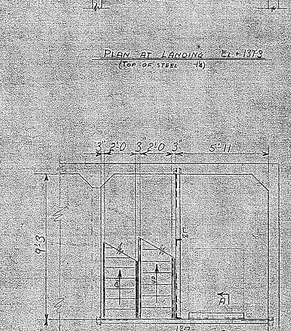


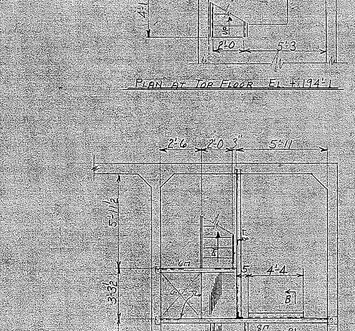


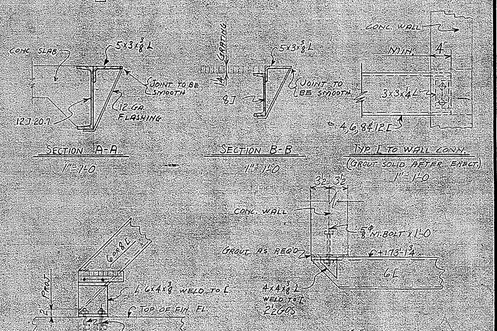


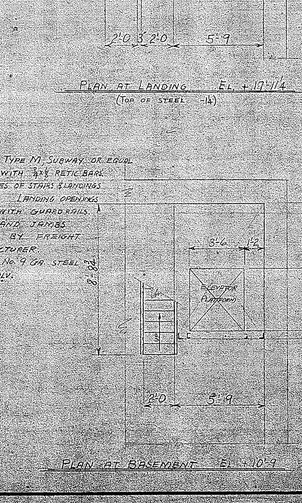


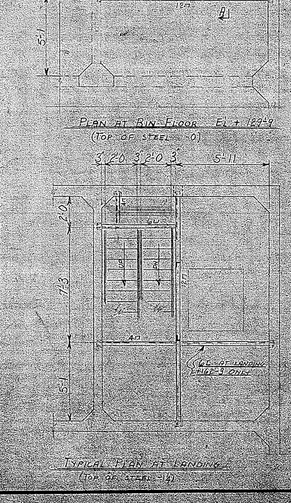


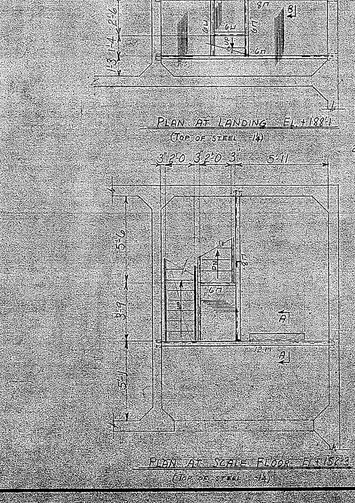












NOTES:

1. GRATING TO BE IRVING TYPE M, SUBWAY, OR EQUAL 1 1/4"x 1/8" BEARING BARS WITH 3/16" RETIC BARS.
2. HANDRAILS ON BOTH SIDES OF STAIRS & LANDINGS EXCEPT AT WALLS. LANDING OPENINGS WILL BE ENCLOSED WITH GUARD RAILS.
3. ELEVATOR GATES AND JAMBS WILL BE FURNISHED BY STRAIGHT ELEVATOR MANUFACTURER.
4. WIRE MESH WILL BE NO. 9 GA. STEEL WIRE 2" SQ. MESH, GALV.

MARSHALL & PARRISH, ASSOCIATES — 5772

1951 GRAIN ELEVATOR
PORT OF LONGVIEW
LONGVIEW, WASH.

STAIRS

SCALE 1/4"=1'-0" & AS NOTED

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER SEATTLE

DRAWN FEB. 1 1951

24

DRAWING NUMBER

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

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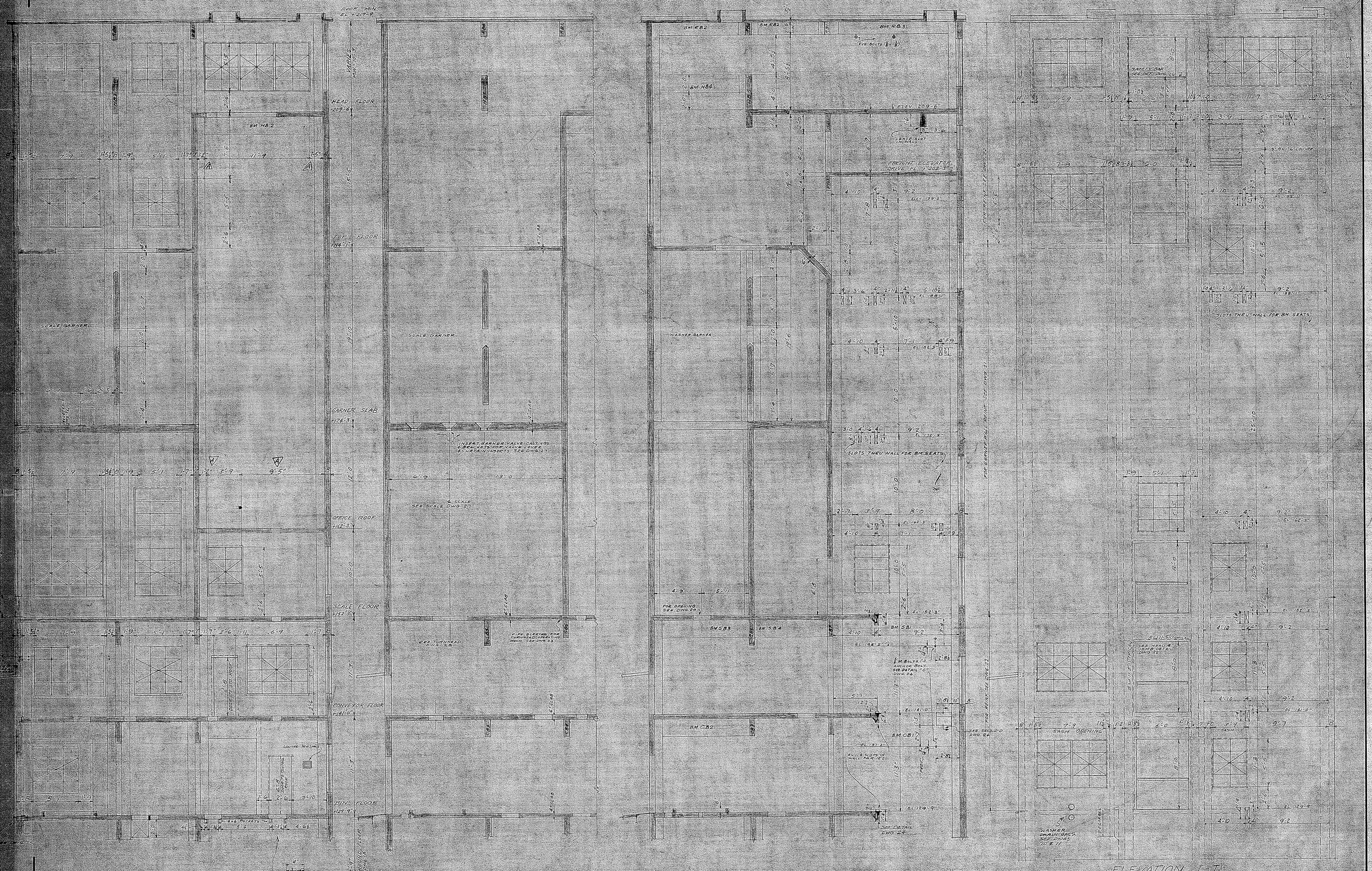
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

DRAWING NUMBER
B540

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

DRAWING NUMBER

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


ROOF MIN. EL. +219'-8
HEAD FLOOR 209'-8"
TOP FLOOR 194'-1"
GARNER SLAB 174'-3"
OFFICE ROOF 142'-3"
SCALE FLOOR 152'-3"
CONVEYOR FLOOR 131'-0"
BIN FLOOR 129'-9"
BM HB2
SCALE GARNER
WASHER GARNER
SLOTS THRU WALL FOR BM SEATS
SEE SCALE DWG 27
SEE TURNHEAD DWG 24
SEE DETAIL DWG 24
SEE SCALE DWG 24
SEE HOPPER DWG 24
SEE DETAIL DWG 24
SEE SECTION DWG 24
SEE HOPPER DWG 24
SEE DETAIL DWG 24
SEE DETAIL DWG 24
SEE DETAIL

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 0754R
DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 0754R
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PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 0754R
DRAWING NUMBER
B542
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 0754R
DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 0754R

ROOF PLAN

SECTION A-A

ELEVATION

FLOOR PLAN

SECTION B-B

SECTION C-C (TYPICAL)

SECTION D-D

SECTION E-E

SECTION F-F

SECTION G-G

SECTION H-H

PLAN AT EL +129'-9

SECTION V-V

SECTION K-K

SECTION R-R

SECTION S-S

SECTION M-M

SECTION N-N (TYPICAL SILL DETAIL)

DETAIL OF ROD BRACING

NOTES:
1. SHOP CONNECTIONS: ¾ϕ RIVETS (WELDING TO DEVELOP FULL STRENGTH OF STRESSES SHOWN MAY BE USED IN LIEU OF RIVETS AT OPTION OF FABRICATOR)
2. FIELD CONN.: GIRTS - ⅝ϕ M. BOLT, BEAMS - ¾ϕ M. BOLT

1951 GRAIN ELEVATOR
PORT OF LONGVIEW
LONGVIEW, WASH.

BRIDGE

SCALE 1/8"=1'-0"

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER SEATTLE

DELTA 36° TO 40°

DATE FEB 19 1954

25

MARSHALL & BARR - ASSOCIATES 5720

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

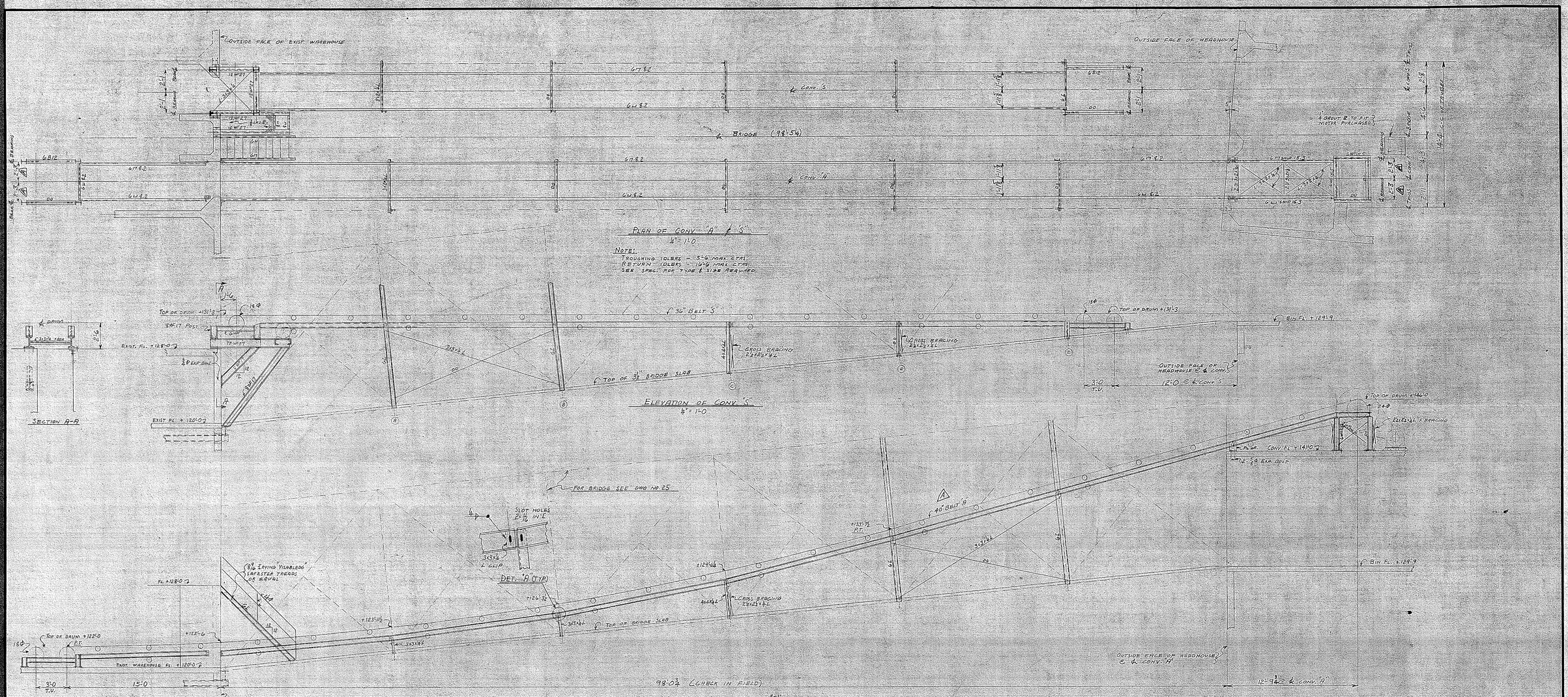
DRAWING NUMBER
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REORDER BY NUMBER 075AR

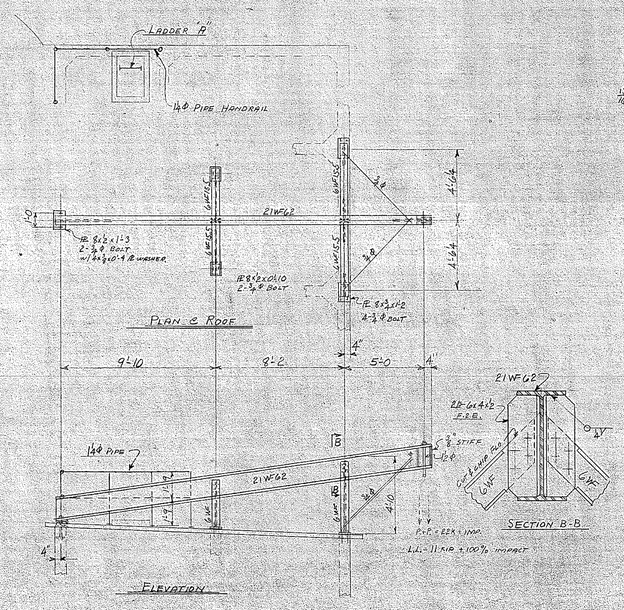
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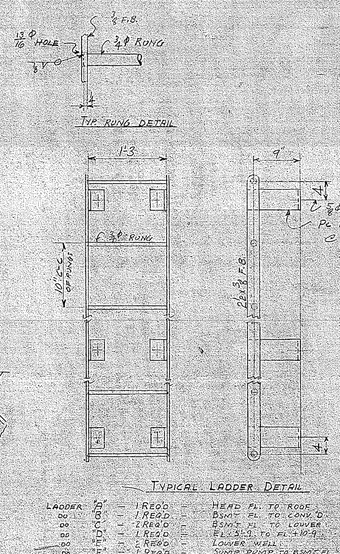
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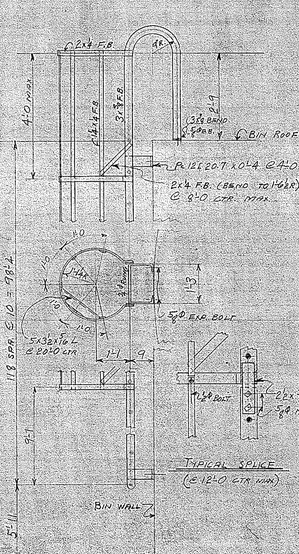
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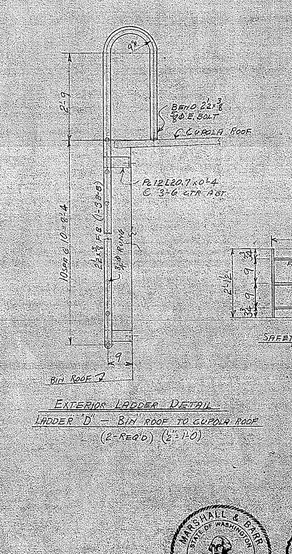
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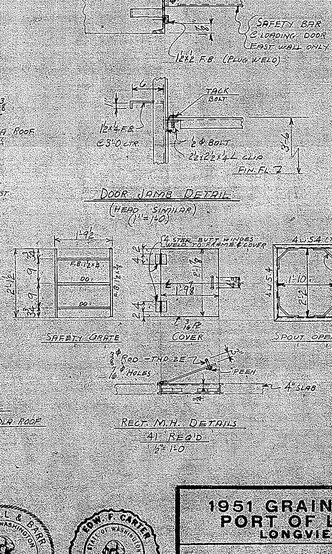


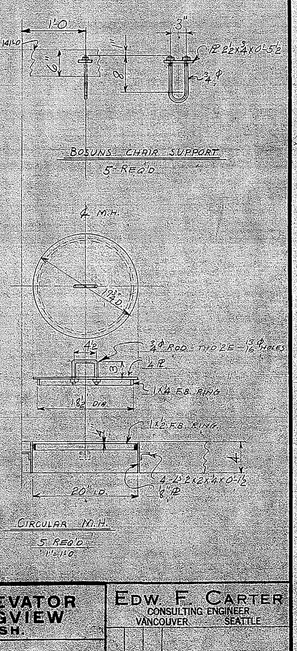












LADDER				DWG. NO.
"A"	- 1 REQ'D -	HEAD FL. TO ROOF	-	17
DU	- 1 REQ'D -	BSMT. FL. TO CONV. D	-	20
DD	- 2 REQ'D -	BSMT. FL. TO LOWER	-	16
DD	- 1 REQ'D -	FL. 3'-0 TO FL. +10'-9	-	30
DD	- 1 REQ'D -	LOWER WELL	-	16
DD	- 1 REQ'D -	SUMP PUMP TO BSMT. FL.	-	9
DS	- 1 REQ'D -	UPPER LEG	-	32
DS	- 1 REQ'D -	UPPER LEG	-	32
DD	- 1 REQ'D -	FLOWER FL. TO TERR.	-	32
DD	- 1 REQ'D -	SCALE FL. TO TOP	-	32
DD	- 1 REQ'D -	SAMPLING WORK HOLE	-	13

TYPICAL LADDER DETAIL

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EDW. F. CARTER REGISTERED PROFESSIONAL ENGINEER STATE OF WASHINGTON

1951 GRAIN ELEVATOR PORT OF LONGVIEW
LONGVIEW, WASH.

MISCELLANEOUS STEEL

SCALE: AS NOTED

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER SEATTLE

DR. EJV
TRACED BY
CH. W.J.F. 5/64

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DRAWING NUMBER

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PLAN ABOVE SCALE SHOWING GARNER VALVES

PLAN OF SCALE HOPPER SUPPORTS

SECTION E-E

SECTION F-F

SECTION D-D

TRUE VIEW C-C

SECTION B-B

DETAIL OF GARNER VALVE CASTING

SECTION A-A

SECTION S-S

SECTION H-H

SECTION K-K

DETAIL OF PEEK HOLE FRAME

DETAIL OF HAND HOLE

ACCESS DOOR

DETAIL M OF CANVAS CURTAIN

DETAIL N OF CANVAS CURTAIN

ROTARY VALVE LEVER & HOOK

OPERATING LEVER END C.I.

CARRIER LEVER LOCK

VALVE ROD DETAIL

VALVE ROD LEVER C.I.

DEFLECTOR RING (4 WANTED)

GENERAL NOTES

1951 GRAIN ELEVATOR
PORT OF LONGVIEW
LONGVIEW, WASH.

SCALE HOPPER

SCALE AS NOTED

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VANCOUVER SEATTLE

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REORDER BY NUMBER 075AR
DRAWING NUMBER
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DRAWING NUMBER
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REORDER BY NUMBER 075AR

DETAIL #3

PLAN OF TURNHEAD SUPPORT RING
BULL RING REMOVED
3/4" = 1'-0"

PLAN OF BULL RING & SPOUT
3/4" = 1'-0"

SECTION B-B
3/4" = 1'-0"

DETAIL #1

SECTION E-E

DETAIL #2
1 1/2" = 1'-0"

SECTION D-D
1 1/2" = 1'-0"

PLAN OF CONTROL EQUIPMENT
BELOW ELEV. 152'-3"

DETAIL #3

SECTION C-C
1 1/2" = 1'-0"

NOTE:
ALL SHEAVES & CRANK ARMS TO BE EQUIPT WITH OILITE BRONZE BUSHINGS.

SECTION A-A
1 1/2" = 1'-0"

1951 GRAIN ELEVATOR
PORT OF LONGVIEW
LONGVIEW, WASH.

SCALE TURNHEAD
SCALE - AS NOTED

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VANCOUVER SEATTLE

DR M.B. CASEY
CK
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PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
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PLAN AT HEAD
SCALE 1/4"=1'0"

SECTION A-A
SCALE 1/4"=1'0"

DETAIL E
INSPECTION DOOR
SCALE 1/2"=1'0"

DETAIL OF CATCH
SCALE 3"=1'0"

TYPICAL CORNER CONNECTION
SCALE 3/4"=1'0"

ROOF CONNECTION OF LEG
SCALE 3/4"=1'0"

FLOOR CONNECTION OF LEGS
SCALE 3/4"=1'0"

SECTION D-D
SCALE 3/4"=1'0"

DETAIL H
SCALE 1/2"=1'0"

DETAIL C
SCALE 1/2"=1'0"

SECTION E
SCALE 1/2"=1'0"

SECTION G-G
SCALE 1/2"=1'0"

SECTION B-B
SCALE 1/2"=1'0"

HEAD SHAFT PACKING DETAIL

ELEVATION OF LEGS
SCALE 1/4"=1'0"

GENERAL NOTES
ALL PL'S TO BE #12 GA. UNLESS OTHERWISE NOTED.
ALL ANGLES TO BE 4"x4"x 1/4" UNLESS OTHERWISE NOTED.
OUTSTANDING LEGS OF ANGLES TO BE BOLTED WITH 3/4" BOLTS @ 6".
DISCHARGE FROM ALL HEADS TO HAVE #12 GA. LINERS.
LEG AND SPOUT DIMENSIONS ARE TO INSIDE OF CASINGS.

1951 GRAIN ELEVATOR PORT OF LONGVIEW LONGVIEW, WASH.	EDW. F. CARTER CONSULTING ENGINEER VANCOUVER - SEATTLE
UPPER LEG	DR. [illegible] 1952 CK. [illegible] 1952 PRINTED [redacted] 32
SCALE- As Noted	MARSHALL & BARR - ASSOCIATES 9224

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PLAN
CUPOLA SPOUTING
BIN FLOOR
EL. +129'9"
4"=1'0

PLAN CONVEYOR FLOOR
EL. +141'-0"
4"=1'0

TRIPPER SPOUT
LOOKING TOWARD DRIVE PULLEY

TYPICAL DETAIL #1
FLOP VALVE

FLOP VALVE LEVER

PLAN
EXISTING WORK HOUSE
SEE DWG 13

SECT. H-H
4"=1'0

SECTION K-K
4"=1'0

TYPICAL SPOUT DETAIL

SECTION E-E
1/4"=1'0"

SECTION D-D
1/4"=1'0"

SECT. J-J
4"=1'0

SECTION F-F
4"=1'0

TYPICAL BELT LOADER
BELT LEVEL
4"=1'0

BELT INCLINED
4"=1'0

SECTION A-A
1/4"=1'0"

SECTION G-G
4"=1'0

SECTION B-B
1/4"=1'0"

SECTION C-C
1/4"=1'0"

1951 GRAIN ELEVATOR
PORT OF LONGVIEW
LONGVIEW, WASH.

CUPOLA SPOUTING

SCALE - AS NOTED

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BELTS 24"& 18" 35 ft 42"

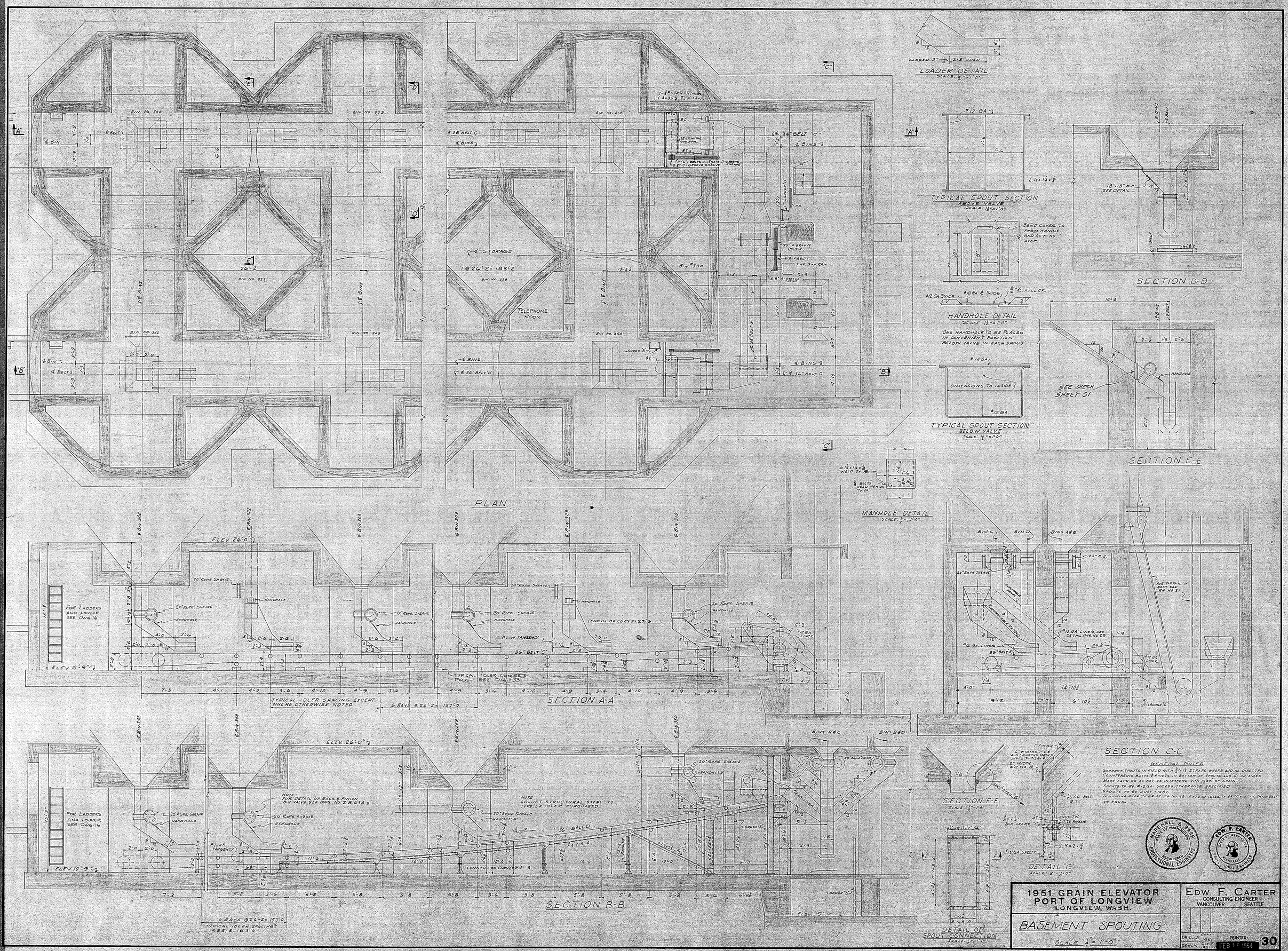
DR. BY MFC
CK. BY EFC
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1951 GRAIN ELEVATOR
PORT OF LONGVIEW
LONGVIEW, WASH.

BASEMENT SPOUTING

SCALE 1/4"=1'-0"

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VANCOUVER - SEATTLE

DR. L.J.B. DATE
CK'D H.I. DATE
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PLAN

DETAIL - 1
TYPICAL SECTION THRU LEG CASING
1" = 1'-0
SEE ASSEMBLY FOR VARIATION IN INSIDE MIN DIMENSIONS

DETAIL - 2
LEG CONNECTION BELOW SLAB
1" = 1'-0

SECTION D-D

SECTION E-E

SECTION F-F

SECTION G-G

DETAIL - 3
TYPICAL LEG CASING THRU SLAB
1" = 1'-0

DETAIL - 4
BELT E GATE VALVE AND SEAT

DETAIL - 5
BELT C GATE VALVE AND SEAT

DETAIL - 6
GATE VALVE ROD GUIDE

DETAIL - 7
ROD SPLICE

DETAIL - 8
SLIDING DOOR
1/2" = 1'-0

DETAIL - 9
END VIEW OF SLIDING DOOR & REMOVABLE SECT
1/2" = 1'-0

ELEVATION A-A

ELEVATION B-E

ELEVATION C-C

1951 GRAIN ELEVATOR
PORT OF LONGVIEW
LONGVIEW, WASH.

LOWER LEG

SCALE 1/2" = 1'-0" NOTED

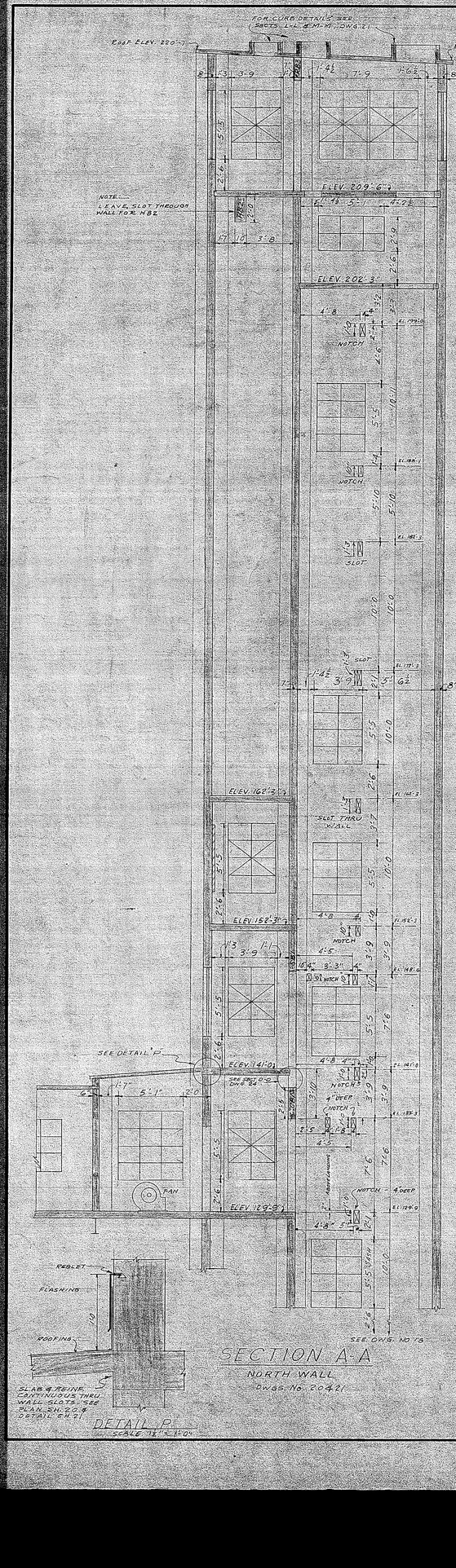
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DWG. NO. 31

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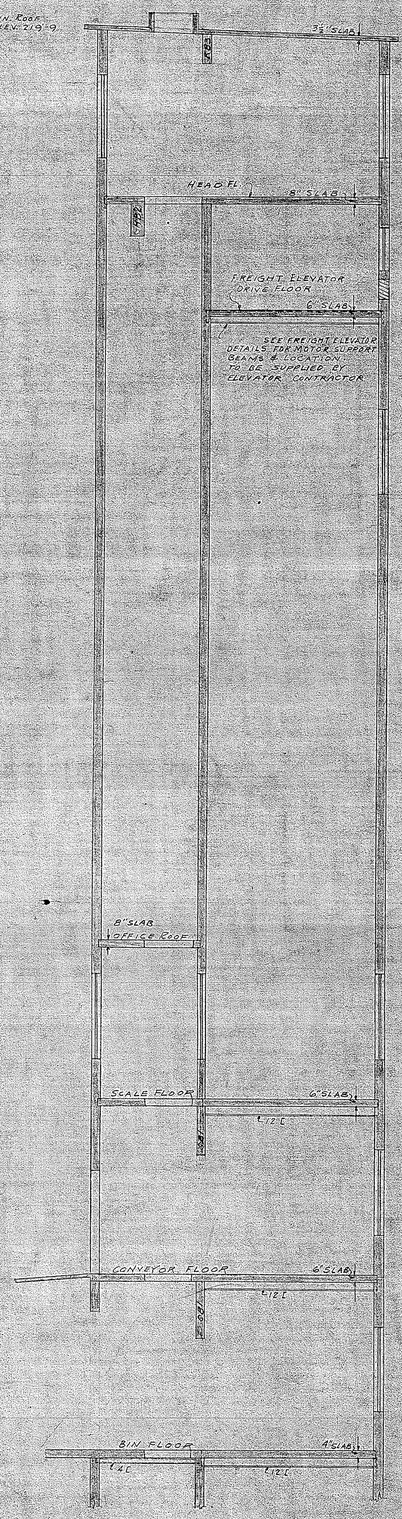
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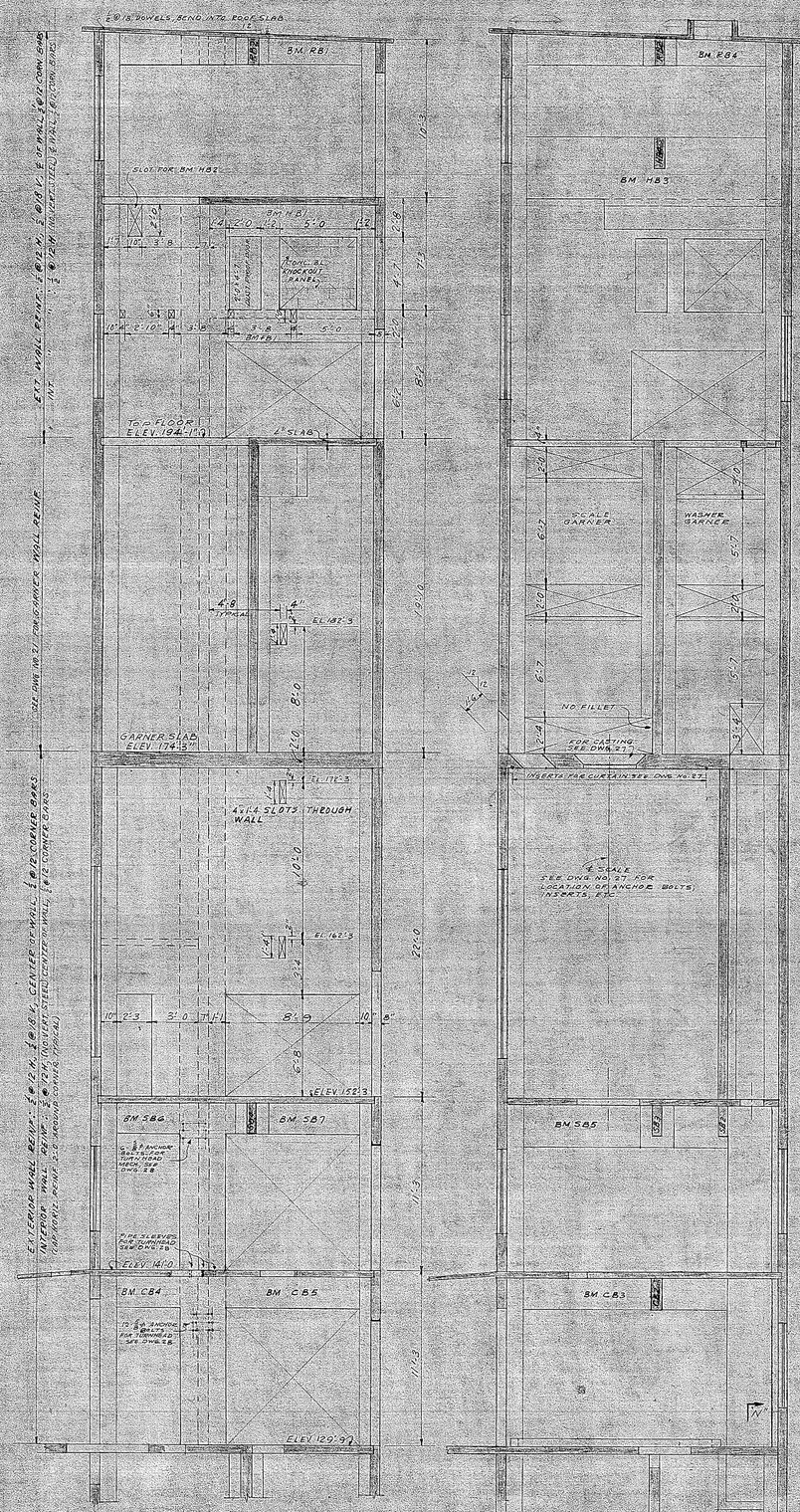


SECTION A-A
NORTH WALL
DWGS. NO. 20 & 21

DETAIL P
SCALE 1½" = 1'-0"



SECTION B-B
DWGS. NO. 20 & 21



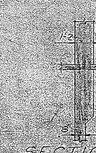
SECTION C-C
DWGS. NO. 20 & 21

SECTION D-D
DWGS. NO. 20 & 21

ELEVATION E-E
SOUTH WALL
DWGS. NO. 20 & 21

NOTE
FOR SECTION LOCATIONS SEE DWG. NO. 20 & DWG. NO. 21

NOTE
WINDOW DIMENSIONS SHOWN ARE NOMINAL SASH DIMENSIONS FOR CONCRETE OPENING SEE WINDOW OPENING DETAIL, DWG. NO. 19



SECTION N-N
SCALE 3/4" = 1'-0"

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EDW. F. CARTER HISTORIC WASHINGTON ENGINEER

1951 GRAIN ELEVATOR
PORT OF LONGVIEW
LONGVIEW, WASH.

CUPOLA DETAILS
LONGITUDINAL SECTIONS

SCALE 1/4" = 1'-0"

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER SEATTLE

DR. [illegible] PRINTED
CK. MT. [illegible]

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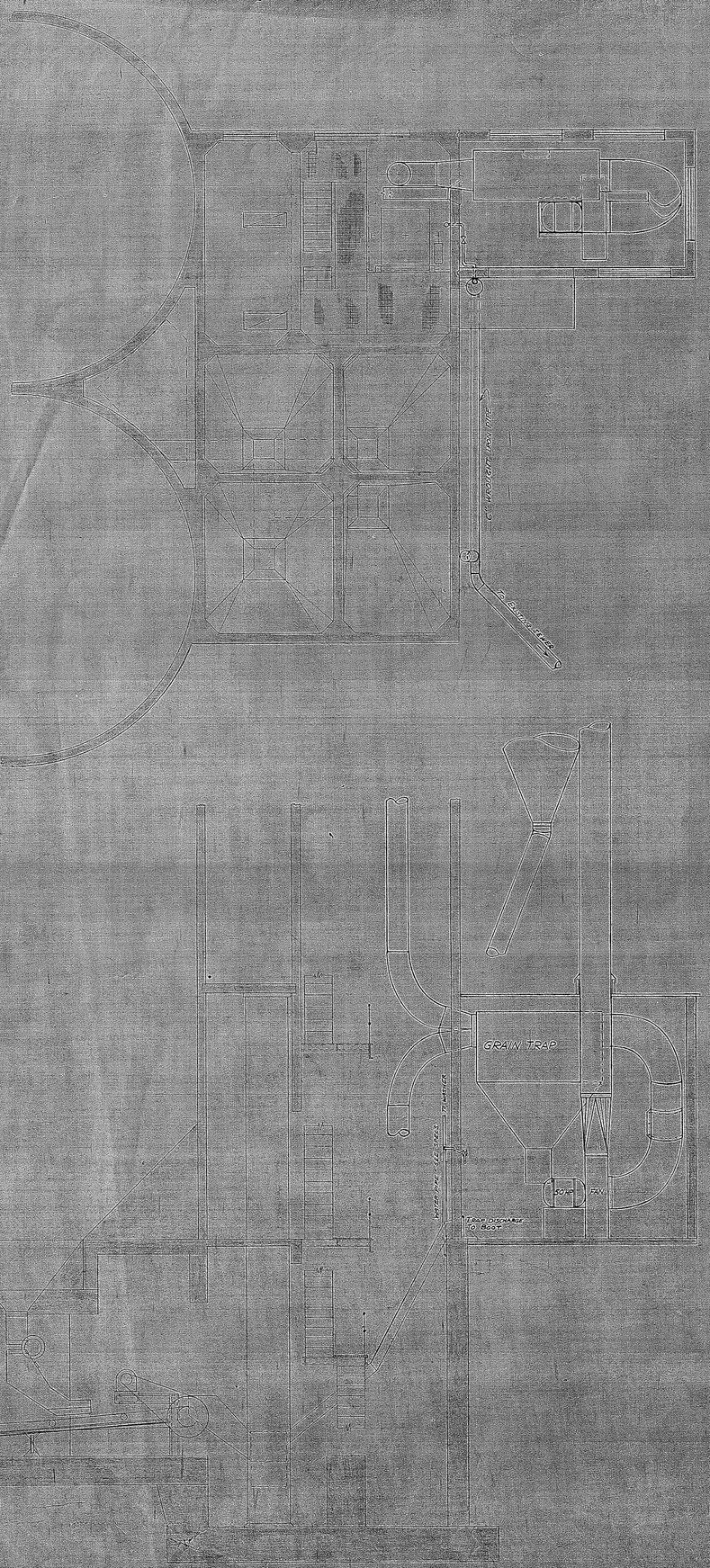
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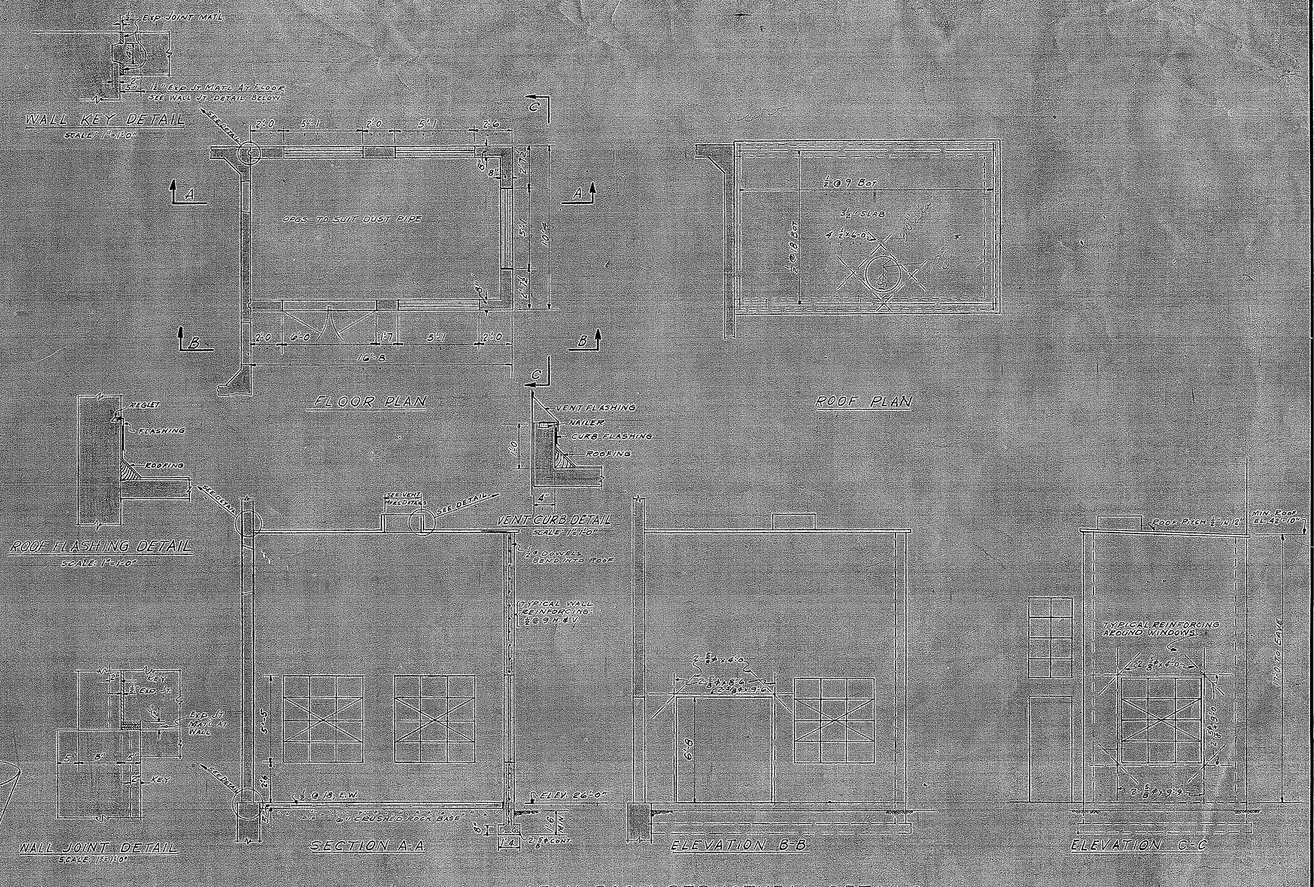
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REORDER BY NUMBER 075AR





FAN ROOM STRUCTURAL DETAILS

NOTE
FAN ROOM SIZE MAY BE ALTERED TO SUIT DUST COLLECTION EQUIPMENT.

CONCRETE
f'c = 2500 #/□"
fs = 18,000 #/□" STRUCTURAL GRADE DEFORMED

1951 GRAIN ELEVATOR
PORT OF LONGVIEW
LONGVIEW, WASH.

FAN ROOM

SCALE 1"=1'-0"

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER - SEATTLE

DR. [illegible]
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