APPENDIX D

REFERENCE DRAWINGS

APPENDIX D

TABLE OF CONTENTS

1941 - Dry Dock No. 1 Quay - Contract No, NOY 4761	Pages 1 to 8
1941 - Fitting Out Pier No. 2 - Contract No. NOY 5094	Pages 9 to 14
1977 - Additional Crane Rail System Berths 11 and 13 - Contract No. N62472-76-C-0746	Pages15 to 34
1998 - Structurally Repair Berth 11 - Contract No. N62472-98-C-6547	Pages 35 to 76
2008 - Miscellaneous Repairs to Berth 11 – Task 10 - Contract No. N40085-08-C-2513	Pages 77 to 102
2013 - Replace Utilities to Berths 11 and 12 - Eproject No. 1171704	Pages 103 to 159

PORTSMOUTH NAVAL SHIPYARD

1941 – DRY DOCK NO 1 QUAY

CONTRACT NO NOY 4761

PLAN OF QUAY WALL - BENTS A TO W
Scale: 1/16" = 1'-0"

SECTION - ON R.W. DWG. DD1-42-30

CAPSTAN No. 1 - SEE R.W. DWG. DD1-42-32

FOR WORK NOT SHOWN SEE DRY DOCK ENGINEERS DWGS.

SECTION - ON R.W. DWG. DD1-42-30

See R.W. Dwg. DD1-42-49

CAPSTAN No. 2 - SEE R.W. DWG. DD1-42-32

FOR - TRACK LAYOUT - SEE DRY DOCK ENGINEERS DWG. P-1-218

DETAIL - SLAB DRAIN
Scale 1" = 1'-0"

Extra Heavy C.I. Grating set in Hub

8" C.I. Pipe

CROSS SECTION OF DOCK - BENT B
Scale: 1/16" = 1'-0"

Elev. 106.50
MHW. Elev. 100.32
Treme Conc. in casing below M.L. Water Line
Elev. 67.32
Rock Fill
Earth Fill Line
Blue Clay
22 Cts. Tar
Dense Brown Sand (Dry)
Sand & Gravel
Rock
15'-0" TERRACE @ EL. 91.12
Elev. 0

LAYOUT OF CURVE FRAMING - BENTS J TO Q INCL.
Scale: 1/4" = 1'-0"

PILES: 10 BP 57
BENTS J TO P
STRINGERS - 33 WF 152
Shall be located on ℄ of middle ordinate, parallel to chords

SECTION - ON P.W. DWG. DD1-42-31

FACE ADJOINING WORK SEE DRY DOCK ENGRS. DWGS.

PILE SCHEDULE

APPROX. LENGTHS - LEDGE TO CUTOFF - ADD WASTE

BENT A	1 @ 85.0	1 @ 82.5			
B	1 @ 85.0				
C to F	1 @ 85.0	2 @ 82.6	4 @ 81.5	6 @ 80.5	4 @ 80.0
G H	4 @ 81.5	4 @ 80.5			ELEV. 105.5
J	2 @ 78.5	2 @ 76.5	2 @ 73.50	2 @ 70.50	2 @ 66.50
K	2 @ 77.50	2 @ 75.50	2 @ 72.50	2 @ 69.50	2 @ 65.50
L	2 @ 75.50	2 @ 73.50	2 @ 70.00	2 @ 67.50	2 @ 64.00
M	2 @ 76.50	2 @ 72.50	2 @ 69.50	2 @ 65.50	2 @ 62.50
N	2 @ 72.50	2 @ 69.00	2 @ 66.00	3 @ 62.00	
O	2 @ 69.00	2 @ 66.00	2 @ 62.50	2 @ 59.00	
P	2 @ 64.00	2 @ 61.50	2 @ 58.00	2 @ 55.00	
Q	2 @ 58.00	2 @ 55.00	2 @ 52.00	2 @ 49.00	
R	2 @ 51.00	2 @ 49.00	2 @ 47.00	2 @ 44.50	
S	2 @ 50.00	2 @ 48.00	2 @ 46.00	2 @ 44.00	
T	2 @ 49.00	2 @ 47.00	2 @ 45.50	2 @ 44.00	
U	2 @ 47.00	2 @ 46.00	2 @ 45.00	2 @ 43.50	
V	2 @ 46.00	2 @ 45.00	2 @ 43.50	2 @ 42.50	
W	2 @ 45.00	2 @ 43.50	2 @ 42.50	2 @ 41.00	
	Elev. 102.6				
Z1	3 @ 78.0				
Z2	3 @ 79.0				
Z3	3 @ 80.0				
Z4	2 @ 78.0	2 @ 79.0			
Z5	2 @ 79.0	2 @ 80.0			

Rev. C

SLAB SCHEDULE

SLAB MARK	SLAB THICKNESS	MAIN REINFORCING STRAIGHT (S)	BENT (B)	CONTINUITY (C)	SPACERS (D)	REMARKS
S1	10"	3/4 ℄ 6"	3/4 ℄ 18"		3/4 ℄ 12"	3 RD. BAR BENT
S2		3/4 ℄ 12"				
S3		3/4 ℄ 6"				3 RD. BAR BENT - OUTSIDE OF RAILS
S4		3/4 ℄ 5"	3/4 ℄ 15"			3 RD. BAR BENT

REMARKS

GENERAL NOTES

TOP REINFORCING - 1/2" ℄ 12" S.W. - LAP 40 D. - ENTIRE DECK
"B" BARS: BENT UP @ 1/2 PTS. - EXTEND TO 1/3 PTS. ADJ. SPAN - (L = 1/4 B + 40 D)
"D" BARS: LAP 40 D. - ENTIRE DECK
HOOKS - ALL TRANSVERSE BARS - 4.0 D, R = 4 1/2 D
ALL SLAB REINF.: 2" COVER

STEEL CONNECTIONS

COLLAR BEAMS TO H PILES - WELDED @ BENTS J TO W
- BALANCE 7/8" RIVS. 15/16" HOLES
DECK GIRDERS TO COLLAR BEAMS - 7/8" RIVS. (CONNS.) WF EQUAL SECT.
- PROVIDE 1/2" TIE PLATES ON CURVE
- SPLICE @ 1/5 PTS. - WELDED - DEVELOP SECTION
RAIL CLIPS TO DECK GIRDERS - 1" MACH. BOLTS - ON TANGENTS
1" CAP SCREWS - ON CURVES
ALTERNATE FOR RIVETS: TIGHT FITTING BOLTS.

REFERENCE DRAWINGS

BORINGS & SOUNDINGS: B&S-40-39, B&S-41-40, FP2-41-2, 3.
LOCATION PLAN & LAYOUT: FP2-41-4a
ADJOINING WORK: DRY DOCK NO. 1 - DRY DOCK ENGRS. DWGS.
FITTING OUT PIER NO. 2 - CHAS. T. MAIN CO. DWGS.
DRAINAGE PLAN
MECHANICAL WORK } FRAMING TO BE SHOWN IN REVISED DRWGS.
ELECTRICAL
DETAILS: DD1-42-30, 31, 32

ASSUMED LOADING

DECK - L.L. 500 LBS. P.S.F. or H-10
CRANE - WHEEL LOADS - KIPS - INCL. IMPACT - TANDEM
40-TON - LOCOMOTIVE CRANE - GAGE 4'-8 1/2"
ONE CRANE - Boom NORMAL
64" 64" 64"
5.66 5.66 5.66
25-TON (GROSS) - DRY DOCK CRANE - GAGE 15'-0"
70" 70" 70" 70"
3.75 2.75 3.75 3.75
ONE CRANE 15.75
Boom NORMAL
70" 70" 70"
3.75 2.75 3.75

GENERAL NOTES

STEEL - per Federal Specifics. 485-86, QQ-S-781a, 121b (Supp (a) & 221b
PILES: Driving, Loading & Details - as approved by Officer-in-charge
CONCRETE: 3000# (28) V.P. rated - slump as approv. - per Federal Specifics. 13Ye, 55-C-191a, QQ-S-781a - All work shall be approv. by Officer-in-charge
DETAILS: are Typical for all similar conditions.

328,043

Revision	Date	Brief	By
	43	Plan as built - Contract - Noy 4761	Lr
C	6-8-42	Plan of Quay Wall changed & Pile Schedule revised	Orig.
B	5-18-42	"Cross Sect. on Dock" Excavation - Revised	Lr
A	2-28-42	"Cross Sect. on Dock" Excavation - Revised	Lr

Drawn by Larsen
Traced by Lr
Checked by Anderson
Chief Dftsmn. R.J.E.
In Charge M.C.
Y&D. Drawing No.
P.W. Drawing No.

NAVY YARD PORTSMOUTH, N.H.

DRY DOCK NO. 1
QUAY

PILE & FRAMING PLANS
PILE SCHEDULE & SLABS "J" TO "Q"
CONTRACT NO. 4761 ABERTHAW COMPANY

Approved Feb. 14, 1941

(42) (142)

Sanders Mfg. Co., Contract
Robertson-Hern Co., NOy-3061

For Details of Bollards, Cleats, Mach. Mt, Rail Clips, etc. See P.W. Dwg. DD1-42-31.

For Capstans, See DD1-42-33

Blocking 10"×12"×2'-0" @ 7'-6" Fender Piles @ 7'-6" } Staggered
Cont. Beam 12"×12" - Splice abt. 30°c.c.
Chocks - 8"×12"
1" Galv. Bolts - Weld to 16 WF

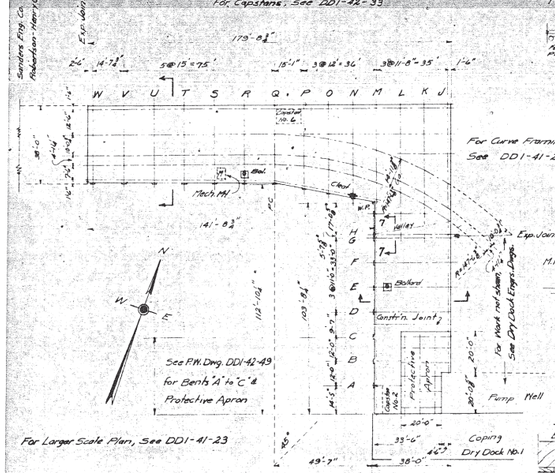
A — ¾" @ 6" [3rd Bar Bent - ½ pts.] Hook all Transverse Bars ¾" @ 12" Longitl. (Lap 40D)

B — ¾" @ 12" E.N. Hook Transv. Bars Lap Longitl. Bars 40D

C — ¾" @ 6" Transv. - Hooks (Typ. Ref. 40) ¾" @ 12" Longitl. Lap 40 D
10" Slab

D — ¾" @ 5" [3rd Bar Bent - ½ pts.] Hooks ¾" @ 10" Longitl. Lap 40 D.
Note: All Reinf. - 2" Cover

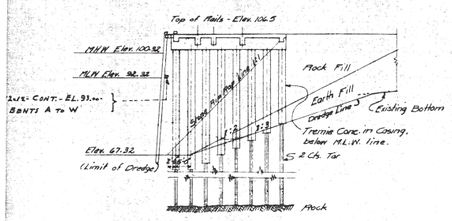
E



See P.W. Dwg. DD1-42-49 for Bents 'A' to 'C' & Protective Apron

For Larger Scale Plan, See DD1-41-23

PLAN OF QUAY WALL - BENTS "A" TO "W"
Scale: 1" = 50'



CROSS SECTION OF DOCK
Scale: 1" = 20'

For Curve Framing, See DD1-41-23

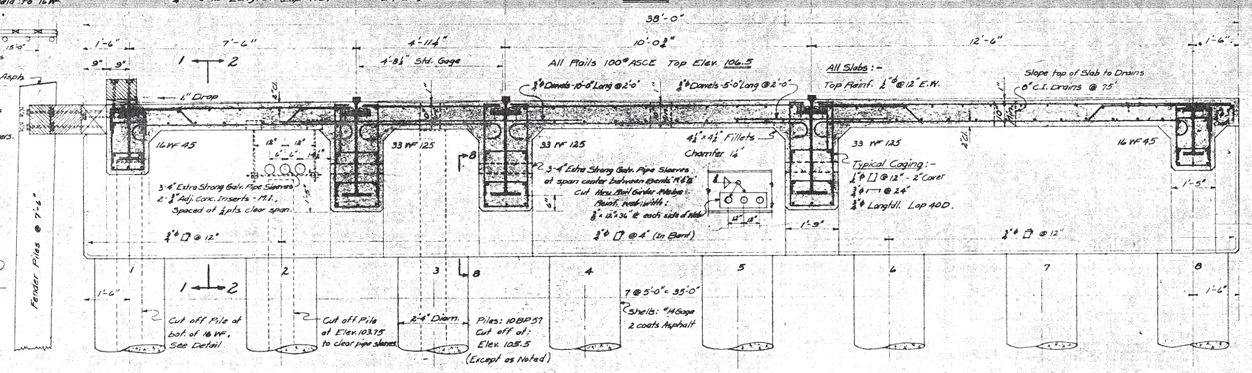
Exp. Joint X1

M.H.W. El. 100.32

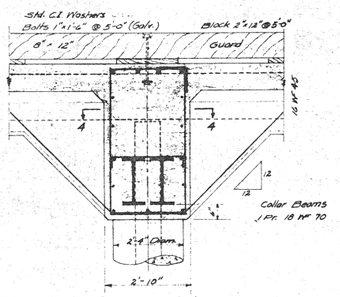
Fender Piles @ 7'-6"

Apts

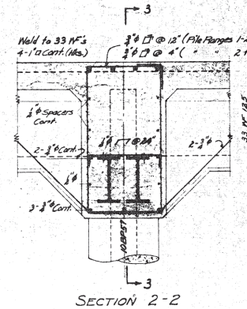
1" Galv. Bolts 3 per Chock Std. C.I. Washers



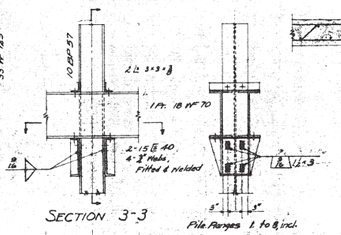
TYPICAL SECTION - BENTS "Q" TO "W"
Scale: ½" = 1'-0"



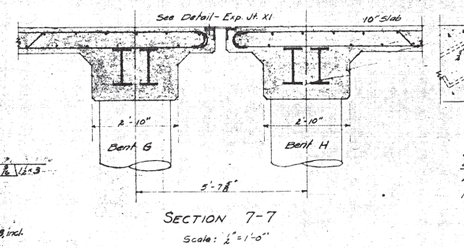
SECTION 1-1



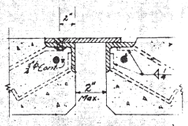
SECTION 2-2
Scale: ½" = 1'-0"



SECTION 3-3



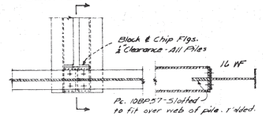
SECTION 7-7
Scale: ½" = 1'-0"



EXPANSION JOINT X
R 2 ½ - B
3 Riv @ 6"
2 L's 4"×4"×½"
Straps - ⅜"× 2½"-2" - alt. @ 1'-6"
All exposed metal Galvanized.
For Rail Details, See FP2-41-1

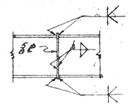
STIFFENERS For 33 WF

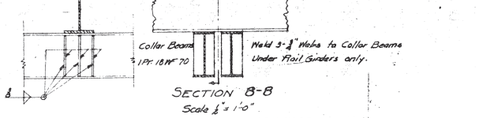
3 - Intermediate: 2 - L's 4"×3"×⅜ @ 3'-0"
Ends: 4 - L's 4"×3"×⅜
Welded - Develop L's



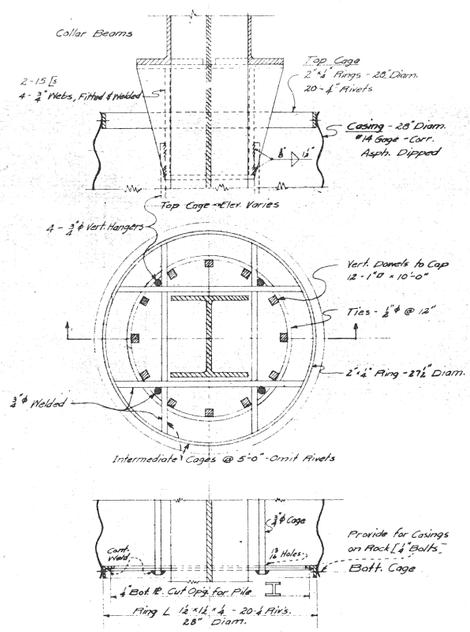
SECTION 4-4
CAP DETAIL

Steel Connections - ⅞ Rivets : 1⅛ Holes
Collar Beams to H-Piles - except as shown.
Deck Girders to Collar Beams & Pile Caps
Deck Girder Splices [@ ½ pts.] - Welded - Develop Section.
Alternate: Tight Fitting Bolts.



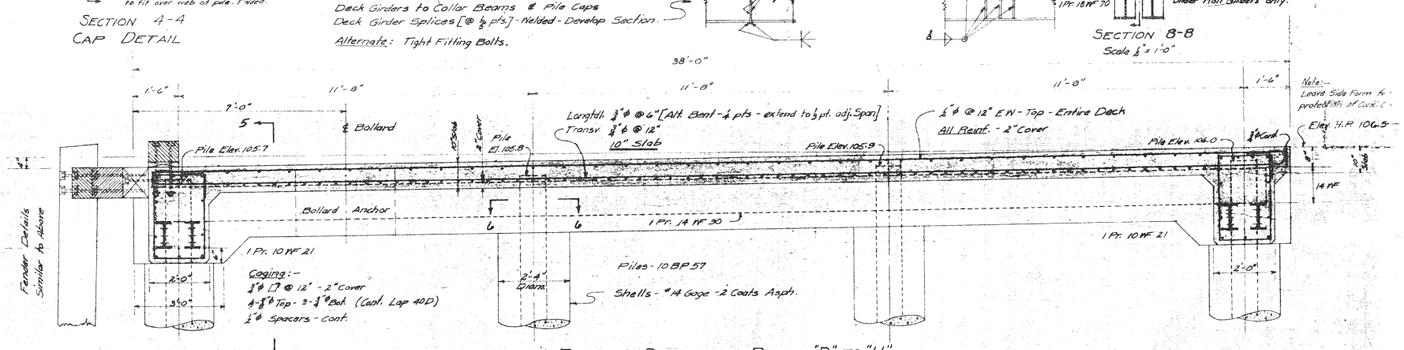


SECTION 8-8
Scale ½" = 1'-0"

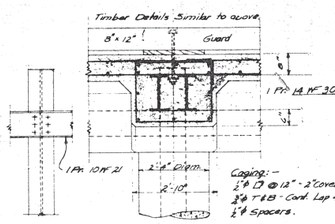


METAL CASING FOR H-PILES
Scale 1½" = 1'-0"

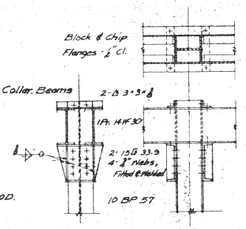
Alternate: #14 Plain pipe welded. Provide stiffeners (Ext.) for 35' water pressure.



TYPICAL SECTION - BENTS "D" TO "H"
Scale ½" = 1'-0"



SECTION 5-5



SECTION 6-6

Steel Connections - ⅞ Rivets : 1⅛ Holes
Alternate: Tight Fitting Bolts.

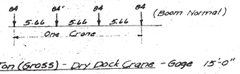
Note: - Framing for Mech. & Elect. Work to be shown in subsequent Dwgs.

ASSUMED LOADING

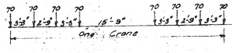
DECK: L.L. - 500 lbs. per Sq. Ft. or H-10

CRANE WHEEL LOADS - Rigs - incl. Impact - Tandem

40 Ton - Locomotive Crane - Gage 4'-8½"



25-Ton (Gross) - Dry Dock Crane - Gage 15'-0"



REFERENCE DRAWINGS

Borings & Soundings: B&S-40-39, B&S-41-40, FP2-41-2 & 3
Location Plan & Layout: FP2-41-49
Adjoining Work: Dry Dock No. 1 (Dry Dock Engrs. Dwgs.) Filling Out Pier No. 2 (Chas. T. Main Dwgs.)
Mechanical: MS-42-19
Electrical:
Drainage:

GENERAL NOTES

STEEL: per Federal Specifications incl. 48S-8c, QQ-S-721a, 12Y6 (Gage) Piles: Driving - Loading - Details - as approv. by Officer-in-Charge.

CONCRETE: [Class E1 - 3000#] vibrated - slump as approv. per Federal Specif. incl. 13Yc, 55-C-131a, QQ-C-71a. All work shall be approved by Officer-in-charge.

DETAILS: are Typical for all similar conditions.

3280

Revision	Date	
	-43	Plan as built - Contract Noy 4761
B	6/18/42	Title changed to Bents "D" to "H", Plan of Quay Wall revised - C
A	2/26/42	"Cross Section of Dock" Excavation Revised
		Brief

Drawn by Soderbeck
Traced by
Checked by Lutz
Chief Drftsm. P.J.E.
In Charge

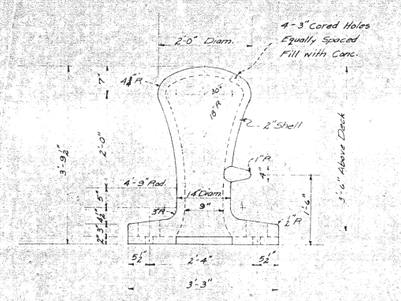
NAVY YARD PORTSMOUTH, N. H.
DRY DOCK NO. 1
QUAY
TYPICAL BEAM & SLAB & PILE CASING DE...
BENTS "D" TO "H" & "Q" TO "W"
Part B
CONTRACT NO. NOy 4761 - ABERTHAW Con...
Approved Feb. 14, 1942
J. F. Mathes
Public Works Offic...

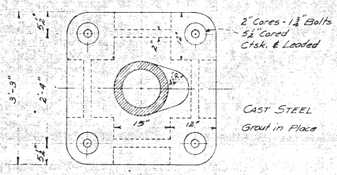
Y. & D. Drawing No.

P. W. Drawing No. DD1-42-30

42/139

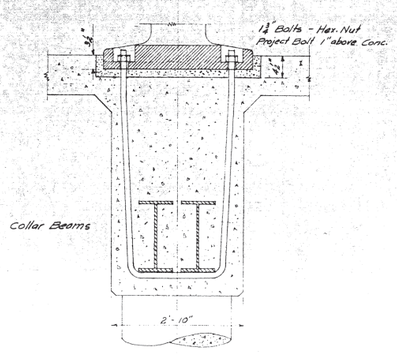
Scale: As shown





DETAIL OF BOLLARD

Scale: ¾"=1'-0"

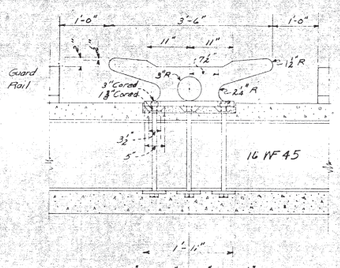


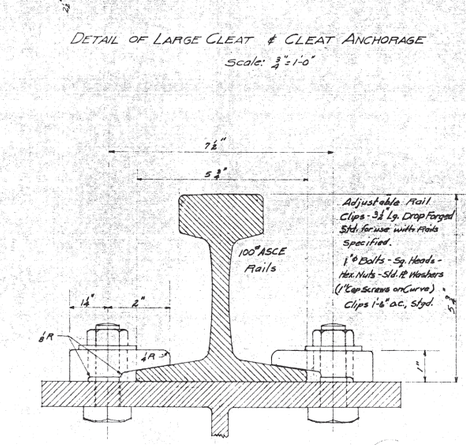
BENT R (As Shown)

BOLLARD ANCHORAGE

BOLLARD ANCHORAGE AT BENT E SIMILAR

Scale ¾"=1'-0"





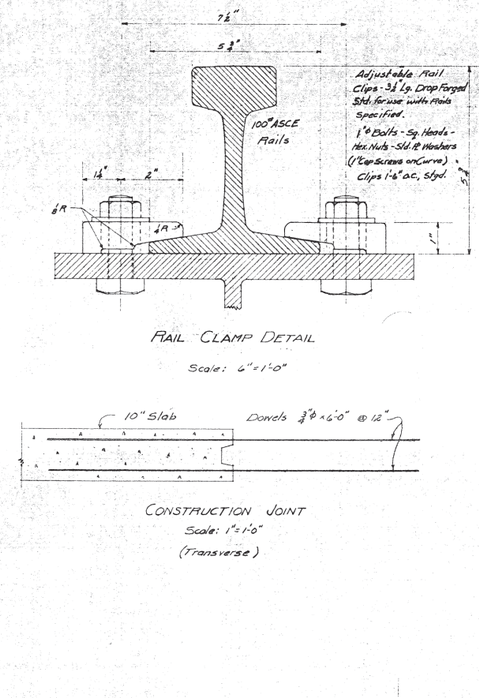
RAIL CLAMP DETAIL

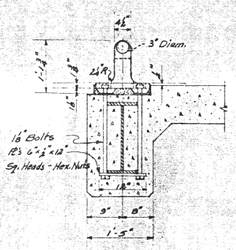
Scale: 6"=1'-0"

CONSTRUCTION JOINT

Scale: 1"=1'-0"

(Transverse)



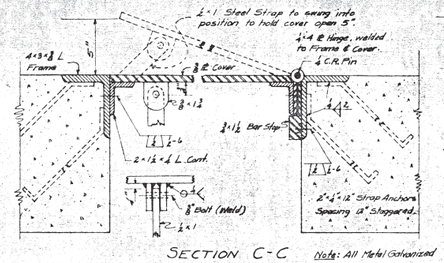


CAST STEEL

Grout in Place

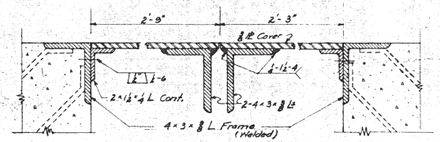
DETAIL OF LARGE CLEAT & CLEAT ANCHORAGE

Scale: ¾"=1'-0"



SECTION C-C

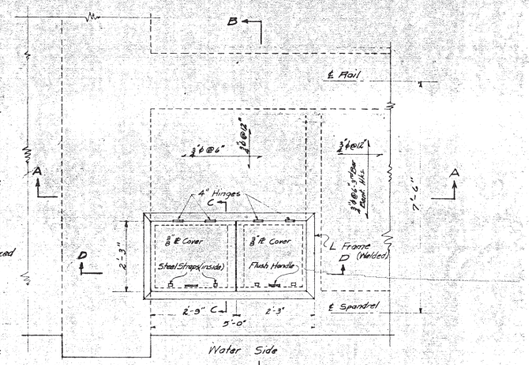
Note: All Metal Galvanized



SECTION D-D

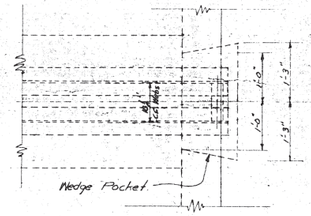
MECHANICAL MANHOLE COVER DETAIL

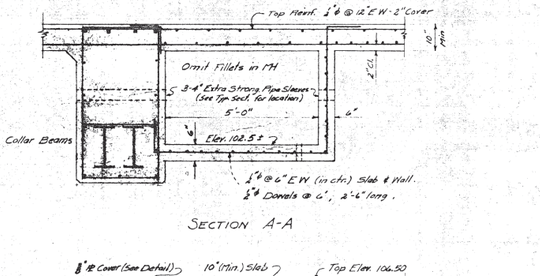
Scale: 3"=1'-0"



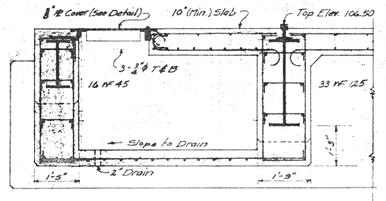
PLAN OF MECHANICAL MANHOLE

Scale: ½"=1'-0"



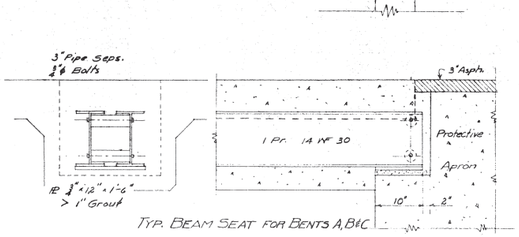


SECTION A-A



Extend Typ. Caging & Conc. as Shown

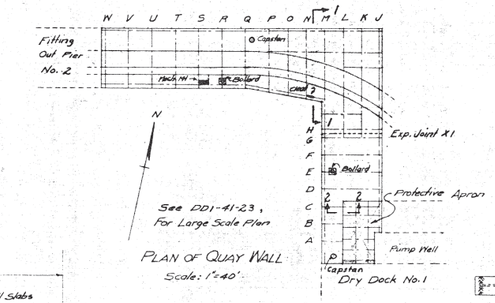
SECTION B-B



TYP. BEAM SEAT FOR BENTS A, B & C

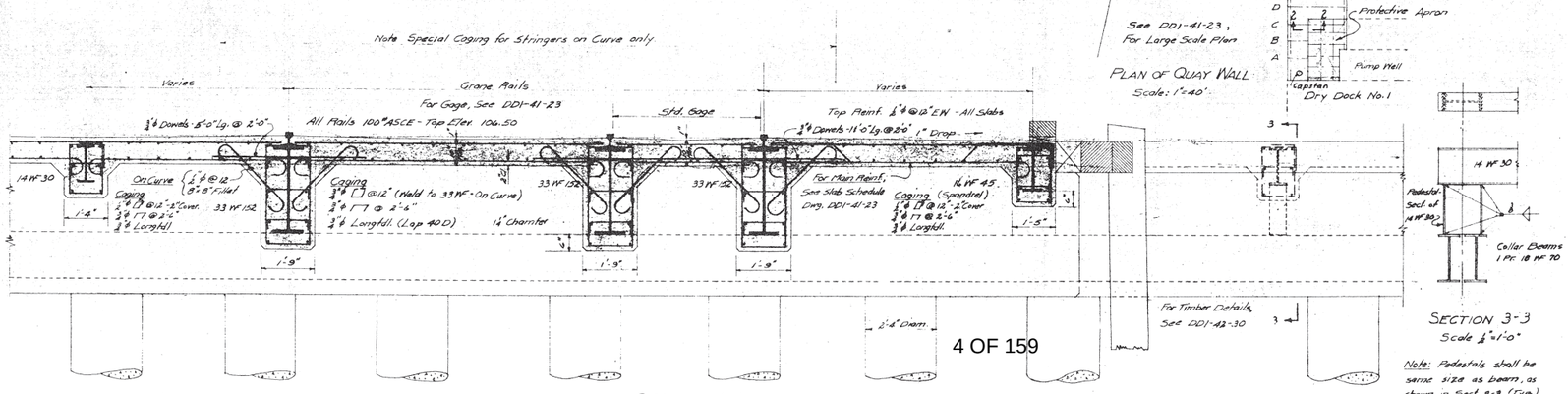
SECTION 1-2

Scale: ¾"=1'-0"



PLAN OF QUAY WALL

Scale: 1"=40'



SECTION 1-1

Scale: ½"=1'-0"

SECTION 3-3

Scale ½"=1'-0"

Note: Pedestals shall be same size as beams, as shown in Sect. 3-3. (Typ.)

Note: Holes of WF's to be punched

Reference Drawings

Pile & Framing Plan & Slab Schedule Bents J to Q DD1-41-23
Typical Beam & Slab & Pile Casing Details - Bents A to H & J to Q to N DD1-42-30
Adjoining Work: Dry Dock No. 1 (Dry Dock Engrs. Dwgs.)
Fitting Out Pier No. 2 (Chas. T. Main Dwgs. & P.W. Dwgs.)
Mechanical: M.S.-42-19

General Notes

STEEL: per Federal Specifications, incl. 48 S-8c, QQ-S-721a, 12 Yb(Sy
Piles: Driving - Loading - Details - as approx. by Officer-in-Charge.

CONCRETE: [Class E1-3000#] vib-rated - slump as approved per Federal Specif., incl. 18¾c, 55-c-191a, QQ-B-71a. All work shall be approved by Officer-in-Charge.

DETAILS: are Typical for all similar conditions.

3280 48

Revision	Date	Brief	By
	43	Plan as built - Contract No. 4761	L
A	6/8/42	Plan of Quay Wall changed & Sect. 1-2 revised	Cond

Drawn by Onderdonk
Traced by
Checked by LC
Chief Dftsmn P.J.E.
In Charge W

NAVY YARD PORTSMOUTH, N.H.

DRY DOCK NO. 1

QUAY

SECTION OF SLABS - BENTS J TO Q & MISC. DETAILS

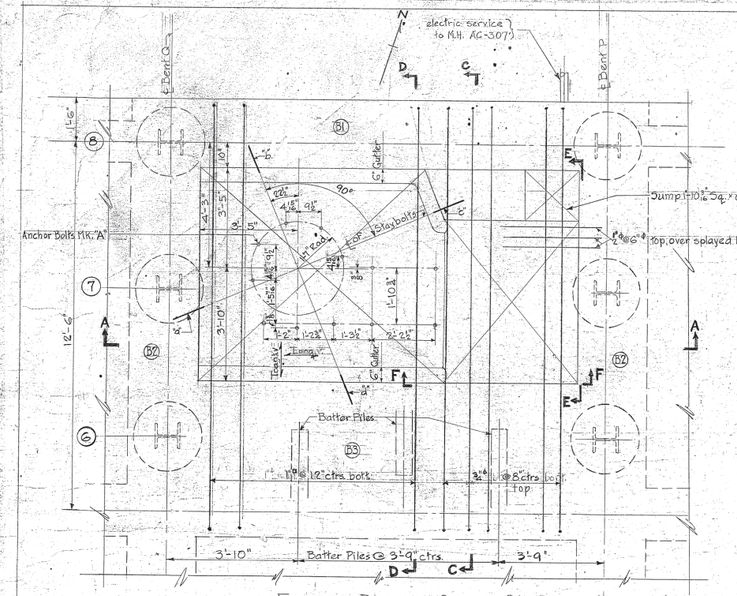
CONTRACT NO. 4761 - ABERTHAW CO.

Y. & D. Drawing No.

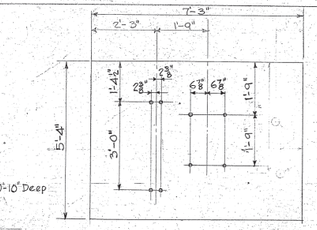
P.W. Drawing No.

Approved Feb. 11, 1942

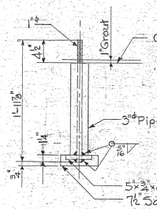
42
40



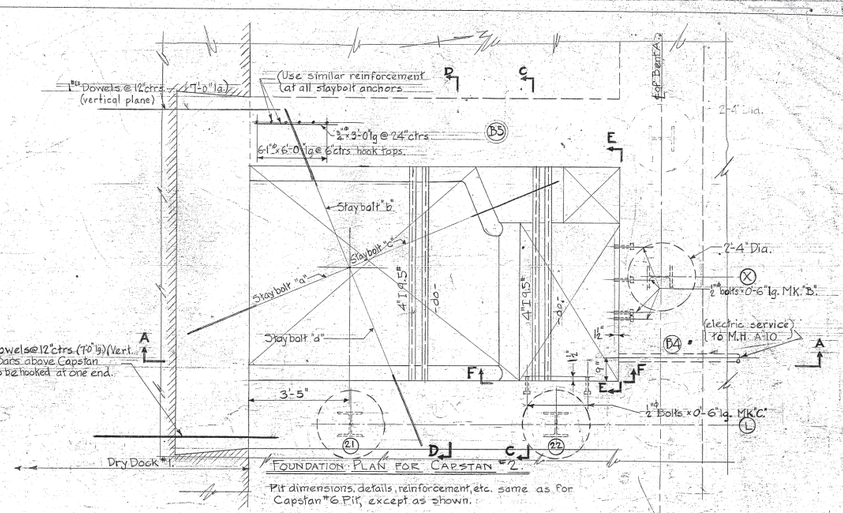
FOUNDATION PLAN FOR CAPSTAN "6".
CAPSTAN 39½" DIA.

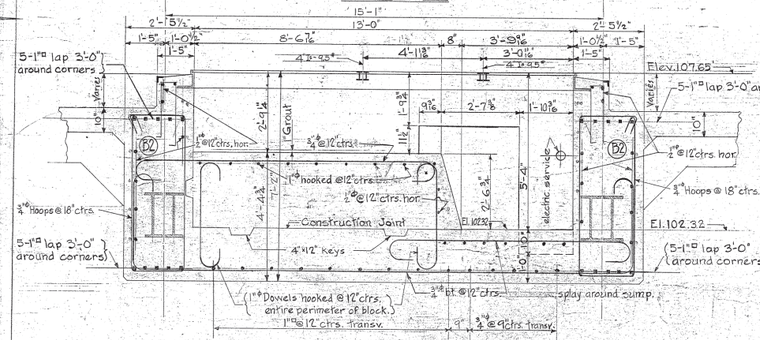


SECT. E-E SHOWING BOLT SETTING. BOLTS MK."B".

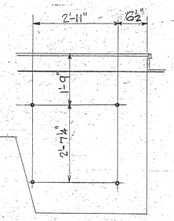


DETAIL OF CAPSTAN ANCHOR BOLT MK."A". 12 Rod.
SCALE 1"=1'-0"

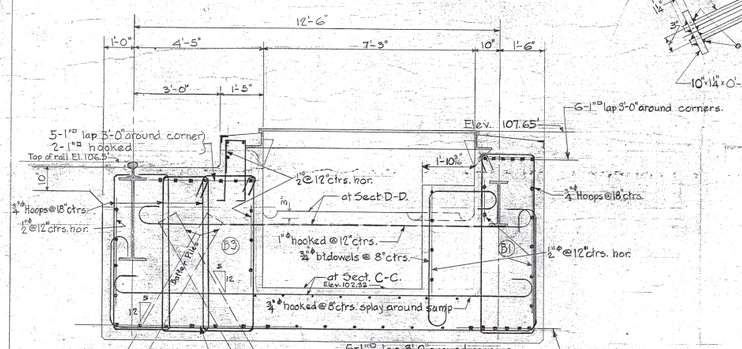




SECT. A-A.

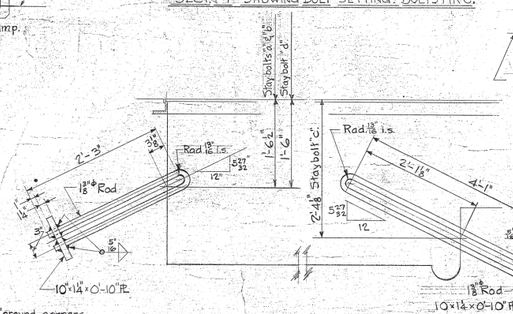


SECT. F-F SHOWING BOLT SETTING. BOLTS MK."C".

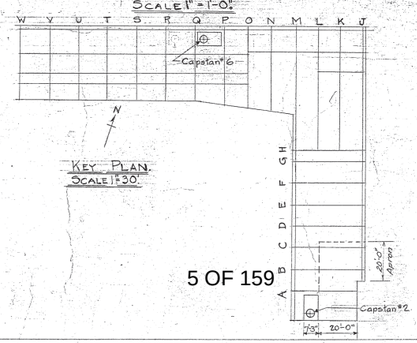


SECT. C-C AS SHOWN.

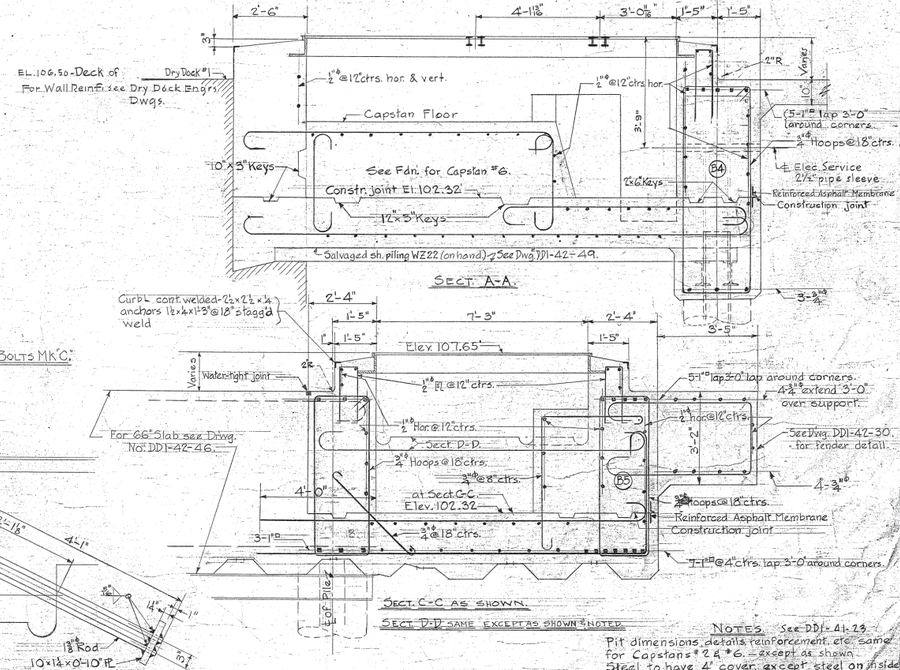
SECT. D-D SAME EXCEPT AS SHOWN & NOTED.



DETAILS & LOCATIONS OF STAYBOLT ANCHORS.
SECTS. ON ℄s OF STAYBOLTS.
SCALE 1"=1'-0"



KEY PLAN.
SCALE 1"=30'



NOTES See DD1-41-23.
Pit dimensions, details, reinforcement, etc. same for Capstans #2 & #6. - except as shown.
Steel to have 4" cover, except steel on inside of pit to have 3" cover.

Specifications 3Yc & No. 13Yc of BY & D. shall govern concrete work.
Concrete to be Class E1 (f'c = 3000 #/□" unless noted.
For electric service see P.W. Dwg. ES-42-183.
For cover plate details see Dry Dock Engrs. Dwg. P-1-231.
Yard Fdn. Dwg - Silent Hoist, Wlnch & Crane Co. Dwg. # 456 23.
Quay Drwg. P.W. Drwg. # DD1-41-23, 30 & 31.
Details are typical for similar conditions.

Revision	Date	Brief	By
		43 Plan as built - Contract No. 4761	L.F.
B	6-8-42	Location, dimensions, & reinforcement of Fdn for Capstan #2 Changed	J.P.S.
A	4-30-42	Dimensions changed	J.P.S.

Drawn by J.P.S.
Traced by ---
Checked by L.F.
Chief. Dftsm. R.J.E.
In Charge ---

Y & D. Drawing No. ---

P.W. Drawing No. DD1-42-32

NAVY YARD PORTSMOUTH, N.H.
DRY DOCK NO. 1.
QUAY.
FRAMING & SUPPORTS FOR CAPSTANS #2 & #6
CONTRACT No. 4761 ABERTHAW COMPANY
Approved Feb. 11, 1942.
Public Works Officer

SCALE: ½"=1'-0" except as noted.

HEAVY LINES INDICATES MASTIC JOINT - COMPLETE SEPARATION

3" ASPH. PAVING - EL. 106.50
66" SLAB - EL. 106.25

NOTE: F.A. = FRESH AIR DUCT & INTAKE - 4'0" x 3'6"

QUAY WALL
See P.W. Dwgs. DD1-42-30 etc.

ENTRANCE to MOTOR FL. EL. 88.50

PENTHOUSE
4'-8" DOOR-SPLINTERPROOF

3" ASPH. PAVING EL. 106.50
66" SLAB EL. 106.25
ON ROLLED ROCK FILL

[66" SLAB - EL. 106.50
ON STEEL H. PILES]

M.H. A2B

M.H. A2A

M.H. A2

M.H. D2

BOLLARD

HATCH NO. 1
3'-9" x 3'-0" CLEAR

HATCH NO. 2
8'-0" x 8'-0" CLEAR

F.A. DUCT

F.A.

66" SLAB EL. 106.25

66" PILES

3" ASPH. PAVING
66" SLAB

CAISSON #2

PR-16 WP 30

PR-10 CP

PR-16 WP 36

PR-10 WP 42

PR-10 WP 21

JOISTS PILES

20'-0"

13'-6"

Outer Sill

Face of Dock

See P.W. Dwg. DD1-42-49

PART PLAN - PUMP WELL & QUAY Scale: 1/8" = 1'-0"

QUAY WALL

See P.W. Dwg. DD1-42-32 etc.

Protective Apron
3" ASPH. PAVING

EL. 107.65

EL. 104.5

EL. 102.33

M.H.W. EL. 100.33

5'-6"

9'-0" x 9'-0" Clearance

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

PUMP WELL -- (See Dry Dock Engrs. Dwgs.)

HATCHES NOS. 1 & 2
HATCH COVER (5" ARMOR PL.)

EL. 106.50

CEILING-PUMP WELL

FRESH AIR DUCT

SECT. C-C

PILES

SPLINTERPROOF DOOR

FRESH AIR INTAKE

4-PILES

PENTHOUSE

TUNNEL

SEE DRY DOCK ENGRS. DWGS. FOR DIMENSIONS & DETAILS

EL. 104.50

PR-14 WP 30

PR-10 WP 21

See P.W. Dwg. DD1-42-31 etc. Wedge Pocket in 66" Slab

SECT. B-B

PLAN

COVER

PUMP WELL

SECTION

MANHOLE A2B - 5" ARMOR PL. COVER
See D.D. Engrs. Dwgs. for Manholes
Scale: 1/2" = 1'-0"

PUMP WELL

BOLLARD

COVER

Rail

MANHOLE A2A
5" ARMOR PL. COVER
Details similar to M.H. A2B

RAIL

COVER

Face of Dock

MANHOLE A2
5" ARMOR PL. COVER
Details similar to M.H. A2B

SEE DRY DOCK ENGRS. DWGS. FOR DETAILS

Revision	Date	Brief	By
	-45	Plan as built - Contract Nov 45	Lr
A	6-6-42	Protective Apron at Quay Revised & General Revisions	Lr

Drawn by Lr
Traced by Lr
Checked by
Chief Dftsm. F.N.E.
In Charge

Y. & D. Drawing No.

P. W. Drawing No. DD1-42-46

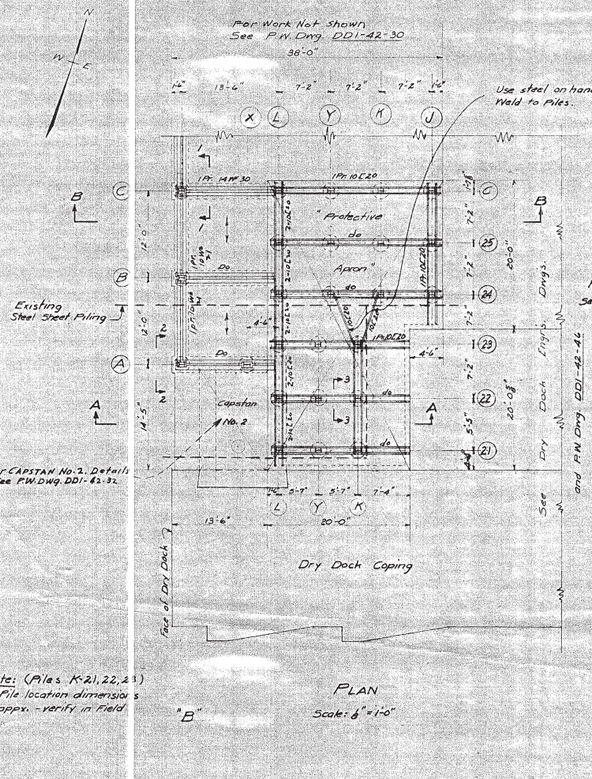
NAVY YARD PORTSMOUTH N.H.
DRY DOCK NO. 1
PUMP WELL BOMBPROOFING
QUAY WALL REVISION
CONTRACT Nov 47 (1) ABERTHAW CO.
Approved April 16, 1942
Public Works Officer

82805

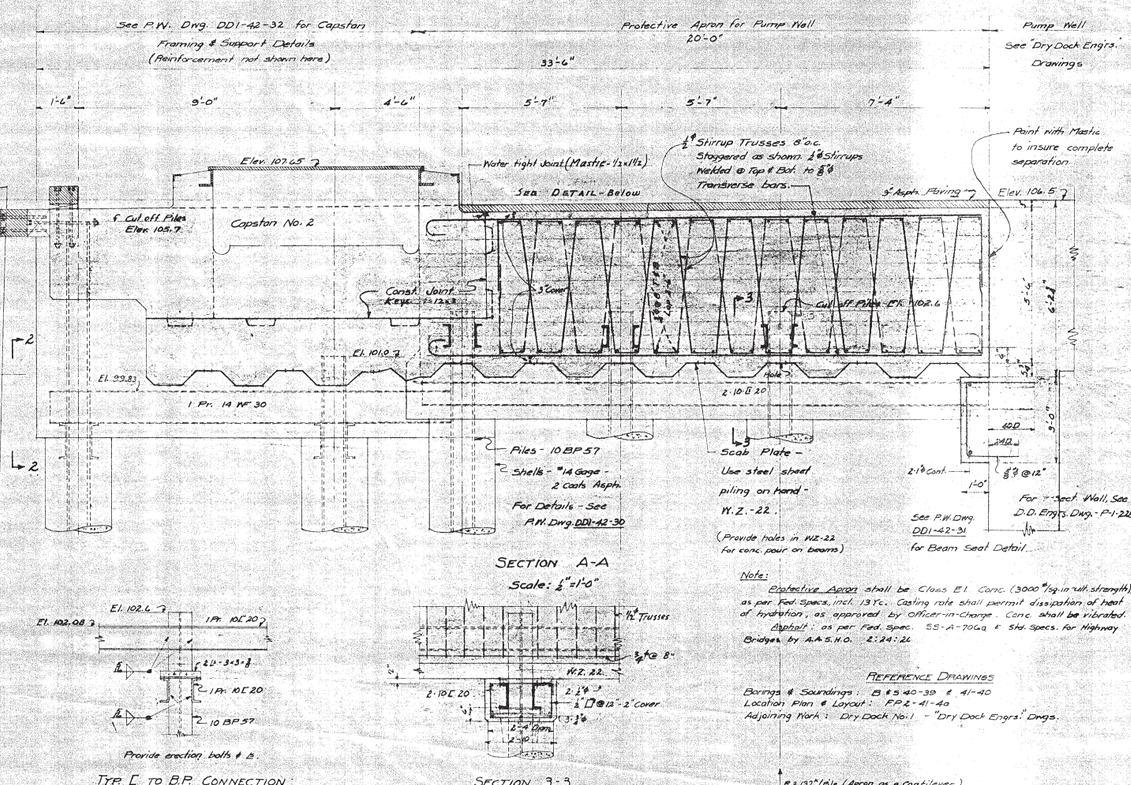
42 336

6 OF 159

190-6-82 1/4



Note: (Piles K-21, 22, 23)
Pile location dimensions
approx. - verify in Field

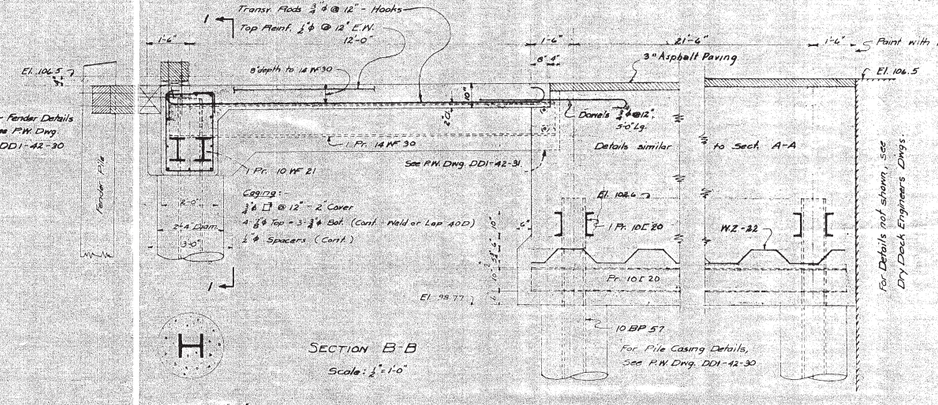


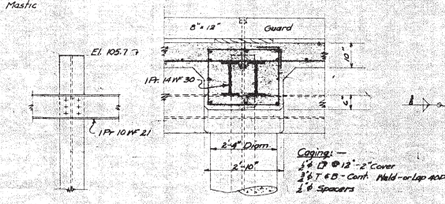
Note: Protective Apron shall be Class E1 Conc. (3000 #/sq.in. ult. strength) as per Fed. Specs., Incl. 13Yc. Casting rate shall permit dissipation of heat of hydration, as approved by Officer-in-Charge. Conc. shall be vibrated.
Asphalt: as per Fed. Spec. SS-A-707a & Std. Specs. for Highway Bridges, by A.A.S.H.O. 2:24:2L

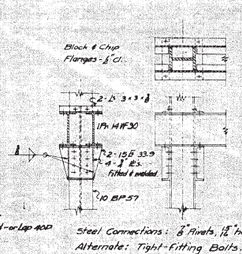
REFERENCE DRAWINGS

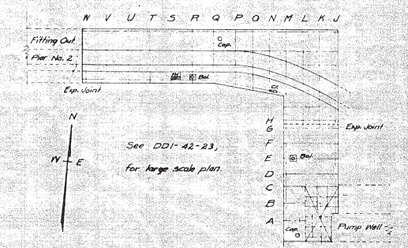
Borings & Soundings: B # 5 40-39 & 41-40
Location Plan & Layout: P-P-L-41-40
Adjoining Work: Dry Dock No. 1 - "Dry Dock Engrs." Dwgs.

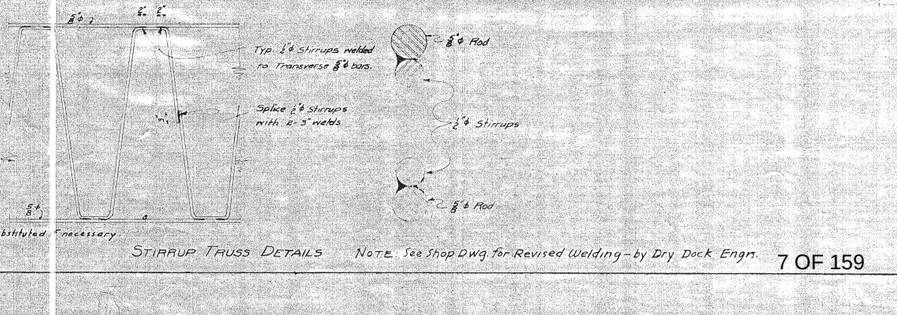
R = 137'/Ft (Apron as a Cantilever)











NOTE: See Shop Dwg. for Revised Welding - by Dry Dock Engrs.

GENERAL NOTES

ALL WORK: Shall be approved by the Officer-in-charge.
STEEL: per Fed. Specs., Incl. 485-Bc, QQ-S-711a, 12Yb (Sup. 1a) & 22Yb.
PILES: Driving, loading & details as Approved by Officer-in-Charge. f_s = 20,000 p.s.i.
CONCRETE: Class E1 (3000 p.s.i. - ult. strength) vibrated, slump, etc., as per Fed. Specs., Incl. 13Yc, 53-C-121a & QQ-B-711a (Gr. 2, Style 1)
ASSUMED LOADING: 500 psf — or H10
DETAILS: Are typical for all similar conditions.

328052

Revision	Date	Brief	By
	'43	Plan as built - Contract Hoy 4761	LF
C	10-9-42	Collar Beams - lowered - 2"	LF
B	7-20-42	Pile Location Revised	Cmd
A	1-29-42	Protective Apron - Reinf.	LC

Drawn by Cmd/Sand
Traced by
Checked by LC
Chief Dftsm. P.V.S.
In Charge Cmd

Y. & D. Drawing No.

P. W. Drawing No. DD1-42-49

NAVY YARD PORTSMOUTH, N.H.

DRY DOCK NO. 1

QUAY

BENTS "A" TO "C" & PROTECTIVE APRON

CONTRACT NO. NOy-4761 - ABERTHAW CO.

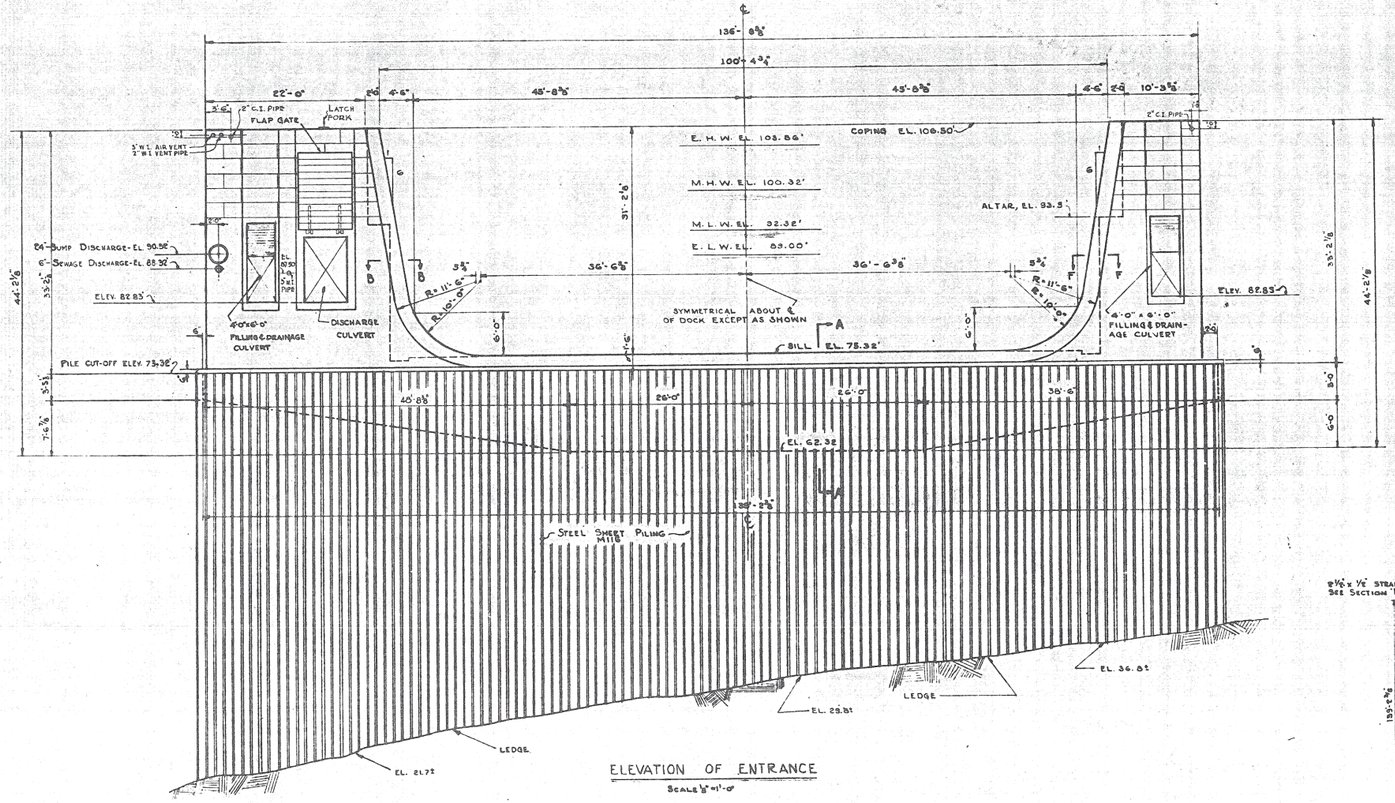
Approved June 8, 1942

W. T. Tabberg
Public Works Officer

42/257 Scale: As shown

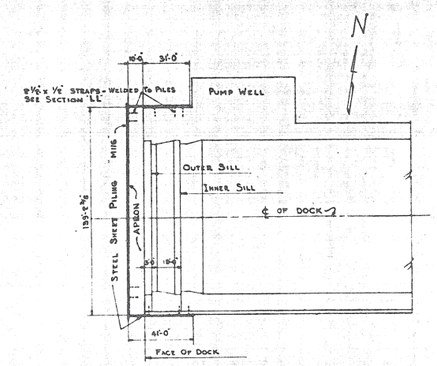
X 9.1

120-6-82



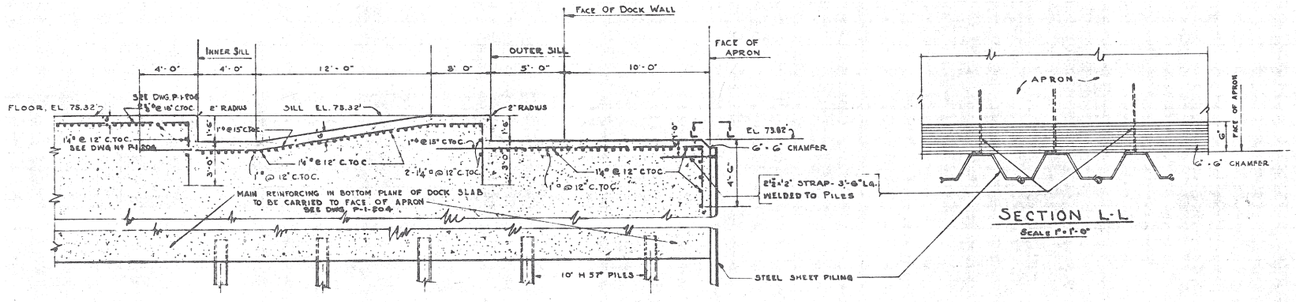
ELEVATION OF ENTRANCE

SCALE ⅛"=1'-0"



KEY PLAN OF STEEL SHEET PILING

SCALE: 1"=40'

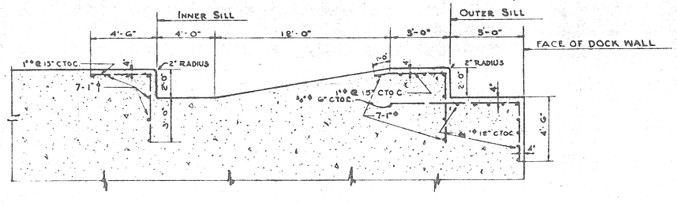


SECTION A-A

SCALE ⅛"=1'-0"

SECTION L-L

SCALE 1"=1'-0"



SECTION B-B

SCALE ¼"=1'-0"

SECTION F-F SIMILAR BUT OPPOSITE HAND

REVISED TO INCORPORATE KNOWN FIELD CHANGES

REVISED	DATE	BRIEF	BY

DRY DOCK ENGINEERS
27 WILLIAM ST.
NEW YORK, N. Y.

FREDERIC R. HARRIS, INC.
MORAN, PROCTOR, FREEMAN & MUESER
PARSONS, KLAPP, BRINCKERHOFF & DOUGLAS
FAY, SPOFFORD & THORNDIKE

NAVY DEPARTMENT BUREAU OF YARDS & DOCKS

U. S. NAVY YARD
PORTSMOUTH, N.H.

DRY DOCK NO. 1
ENTRANCE ELEVATION AND DETAILS

P.W. Drawing No. DD1-41-77

SCALE: AS SHOWN

DATE: 9/15/41

DRAWING No. P-1-214

DES. & PROJ. ENGR. E.J.Q.
CHIEF OF M. G.T.G.
IN CHARGE OF O'N
DES. ON BY L.P.M.
CHECKED BY A.A.R.