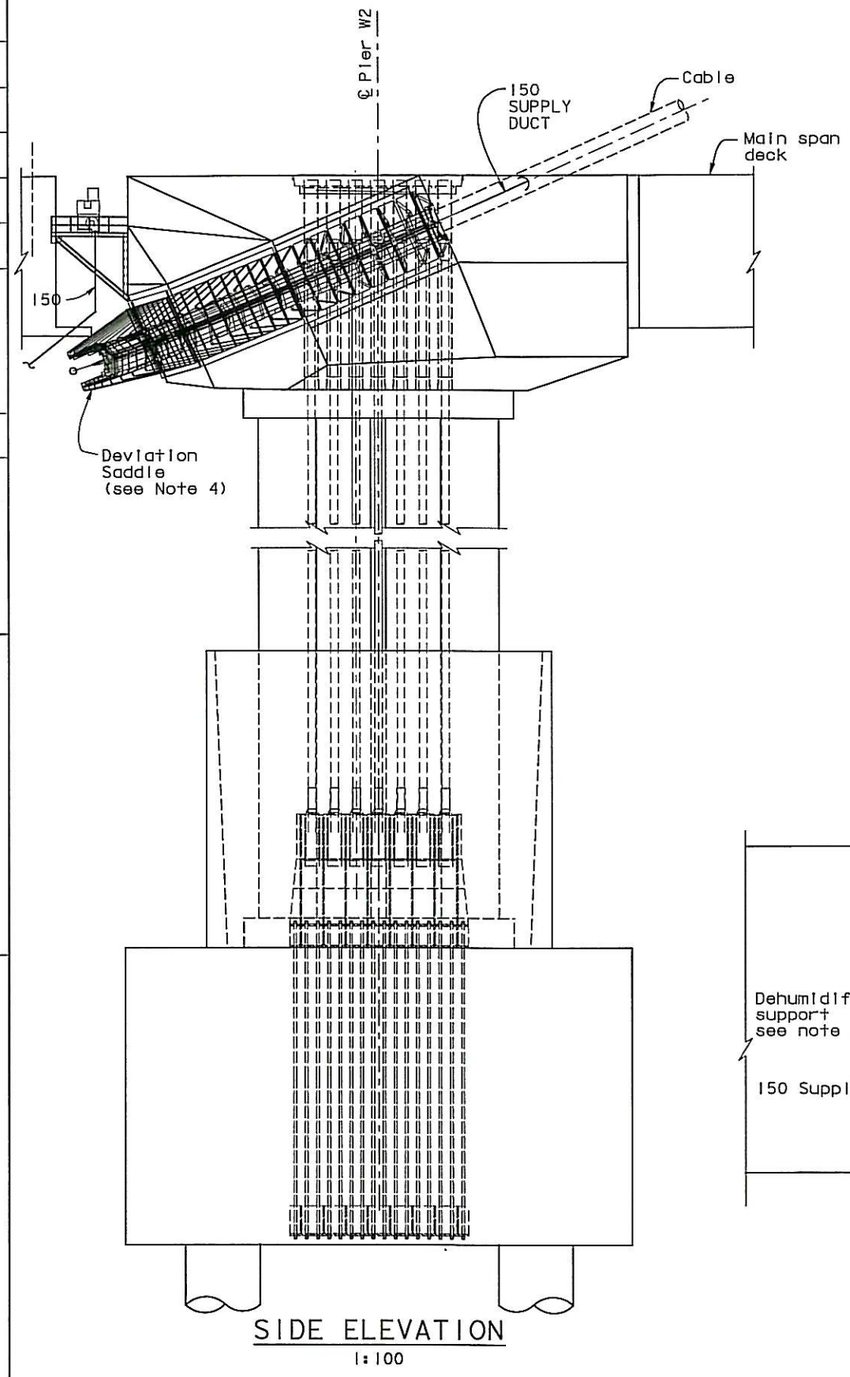
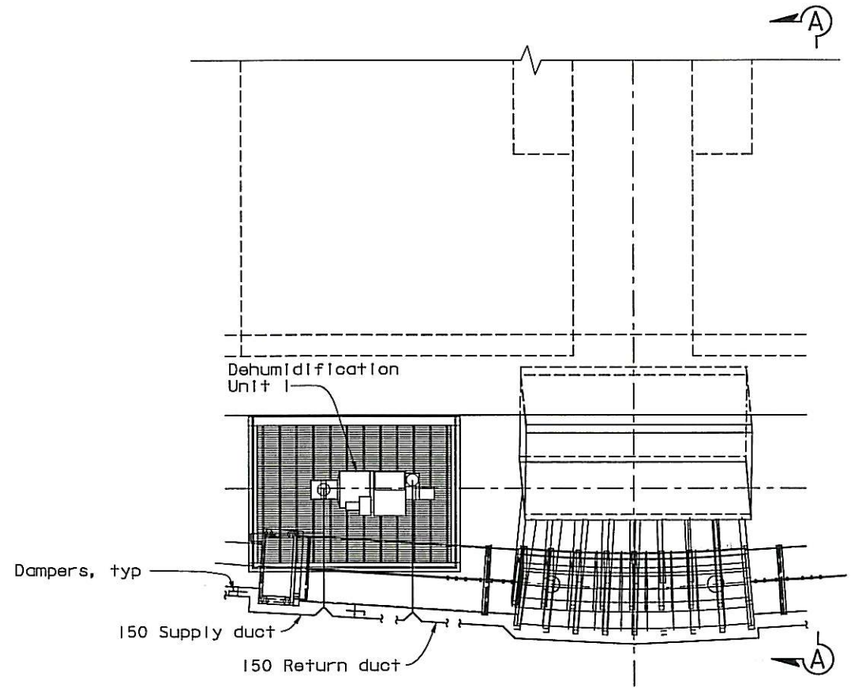
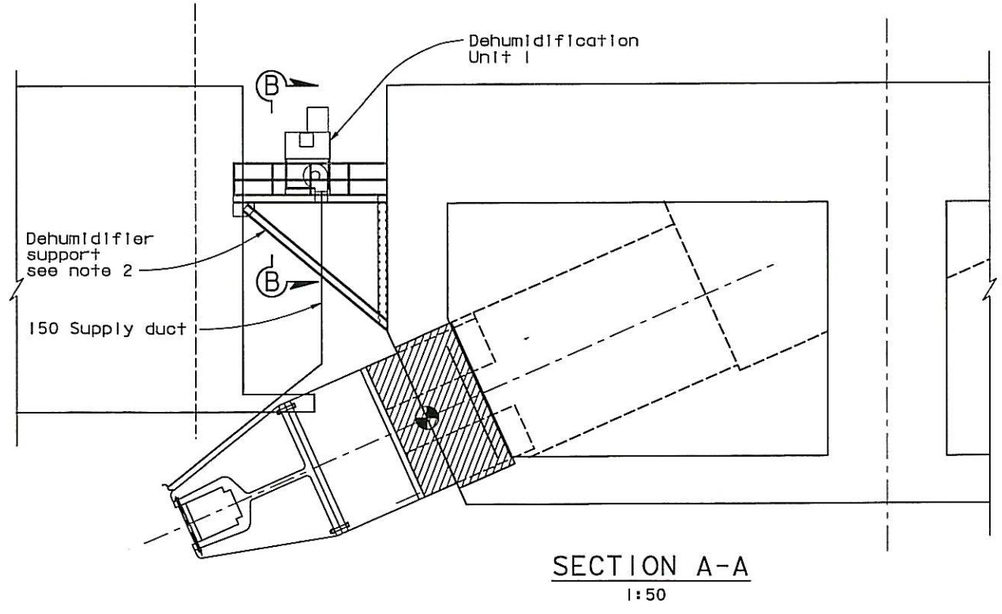


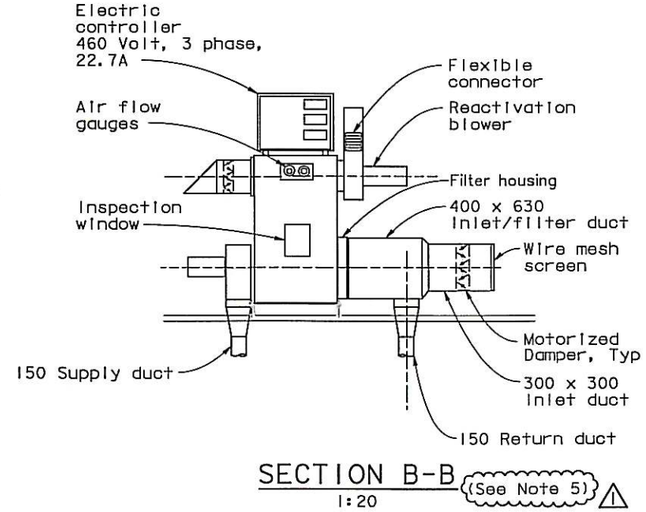
SIDE ELEVATION
1:100



DETAIL A
1:80



SECTION A-A
1:50



SECTION B-B (See Note 5) ⚠
1:20

NOTES:

1. For location of Detail A, see "West Cable Anchorage Dehumidification Detail No.1" sheet.
2. For dehumidifier support, see Bridge Plans.
3. For duct connection to cable shroud, see Bridge Plans.
4. Views of deviation saddle are for illustration only. For deviation saddle details, see "West Deviation Saddle Details" sheets.
5. ⚠ Exhaust shall be oriented away from service personnel. Exhast duct may be extended out or down. It may also be extended up, provided a rain hood is used.

WEST CABLE ANCHORAGE DEHUMIDIFICATION DETAIL NO. 2

ALL DIMENSION ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

M-25

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF	80	13.2/13.9	61R1	1204

Robert E. Bethel
REGISTERED MECHANICAL ENGINEER

12-6-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — ROBERT E. BETHEL — No. M018543 — Exp. 9/30/06 — MECHANICAL — STATE OF CALIFORNIA

T.Y. LIN / MOFFATT & NICHOL
825 BATTERY STREET
SAN FRANCISCO, CA 94111

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REGISTERED PROFESSIONAL ENGINEER — Jai N. Birdy — No. C 41547 — Exp. 12/31/07 — CIVIL — STATE OF CALIFORNIA

FOR REVISIONS ONLY

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
		REVISIONS			
1	05/23/07	DEHUMIDIFICATION SYSTEM	JB	AS	32

CONTRACT CHANGE ORDER NO. _____
SHEET ____ OF ____

CALCULATED/ DESIGNED BY	DATE	REVISED BY	DATE REVISED
ES	5/3/02	RB	5/3/02

CHECKED BY: Bob Zandipour

DESIGN OVERSIGHT

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

SAS STRUCTURE

LAST REVISION DATE PLOTTED => 21 MAY 2007

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FOR REDUCED PLANS ORIGINAL 0 20 40 60 80

EA 012001

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	960R1	1204

George Baker
REGISTERED ENGINEER - CIVIL
1-27-03
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — George S. Baker — No. C 57112 — Exp. 12/31/05 — CIVIL — STATE OF CALIFORNIA

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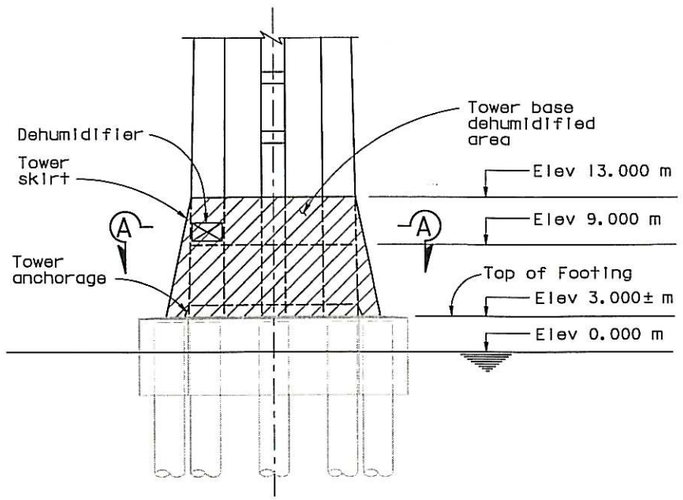
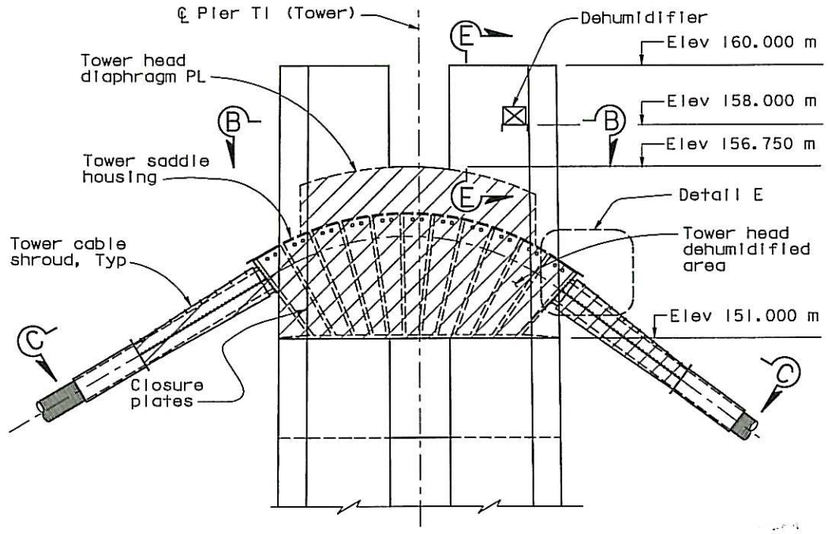
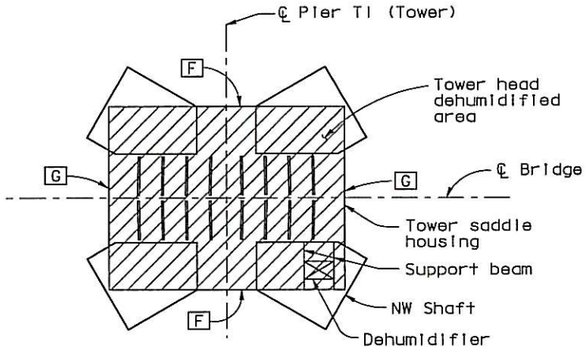


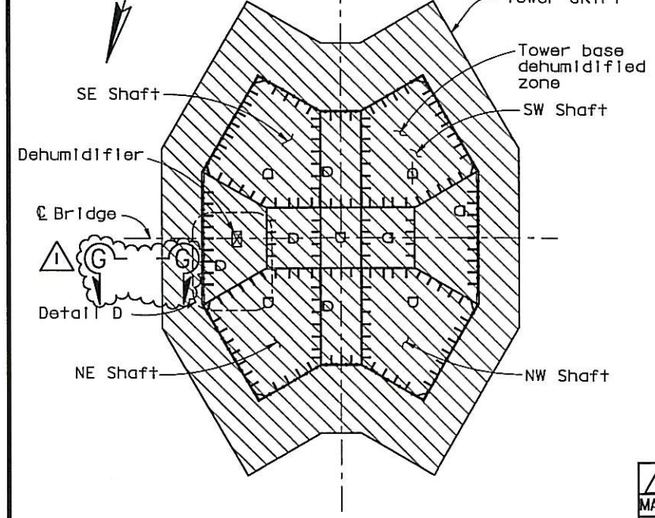
DETAIL B Looking South
1:250



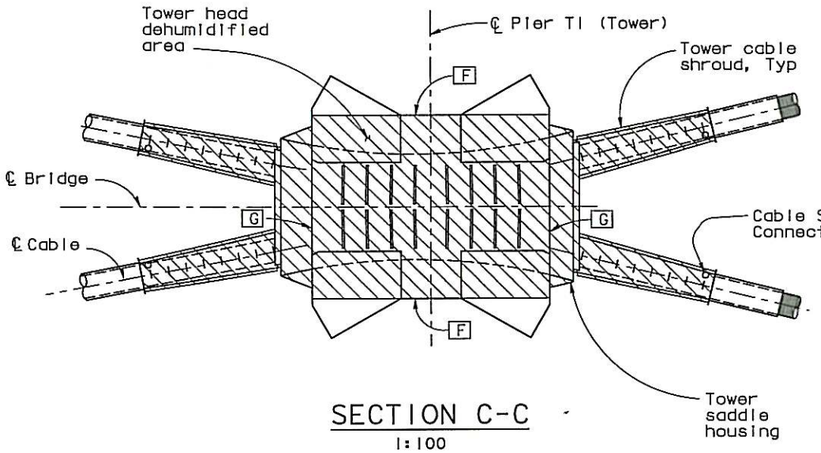
DETAIL C Looking South
1:100



SECTION B-B
1:100



SECTION A-A
1:150



SECTION C-C
1:100

LEGEND:

Limits of dehumidification

Dehumidifier

NOTES:

1. For details of tower head walls F and G, and diaphragm PL, see "Tower Head Details" sheets.
2. For tower saddle housing and closure plates, see "Tower Saddle Housing" sheets.
3. For tower cable shroud details, see "Tower Cable Shroud Details" sheets.
4. For Details D, E and Sections E-E and G-G, see "Dehumidification Support Details No.5" sheet.
5. For Cable Shroud Duct Connection, see "Dehumidification Support Details No.5" sheet.

MARK	DATE	REVISIONS	BY	CH'D	CCO#
1	05/23/07	DEHUMIDIFICATION SYSTEM	GB	DT	32

CONTRACT CHANGE ORDER NO. _____
SHEET ___ OF _____

Daniel J. Turner — REGISTERED PROFESSIONAL ENGINEER — No. C 65033 — Exp. 06/30/07 — CIVIL — STATE OF CALIFORNIA

FOR REVISIONS ONLY

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
SELF-ANCHORED SUSPENSION BRIDGE
(SUPERSTRUCTURE & TOWER)

DEHUMIDIFICATION SUPPORT DETAILS NO. 4

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/23/07

	BY	CHECKED
DESIGN	G. Baker	T. Ho
DETAILS	C. Mauch	T. Ho
QUANTITIES	C. Mauch	D. Harrison

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

BRIDGE NO. 34-0006L/R
KILOMETER POST 13.2/13.9

CU 04
EA 0120F1

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)										SHEET	OF
04/20/02	07/24/02	12/13/02								543R1	

Rev. Date: 5-18-05

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

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100% PS&E

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	961R1	1204

George Baker
REGISTERED ENGINEER - CIVIL

1-27-03
PLANS APPROVAL DATE

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George S. Baker, No. C 57112, Exp. 12/31/05, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

T.Y. LIN / MOFFATT & NICHOL
825 BATTERY STREET
SAN FRANCISCO, CA 94111

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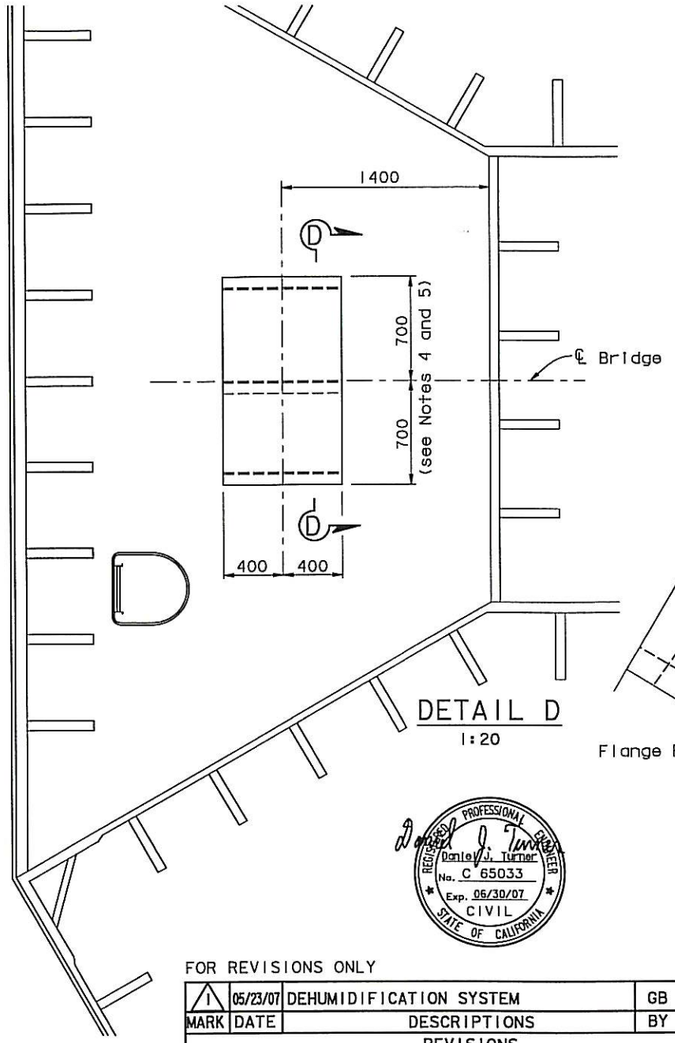
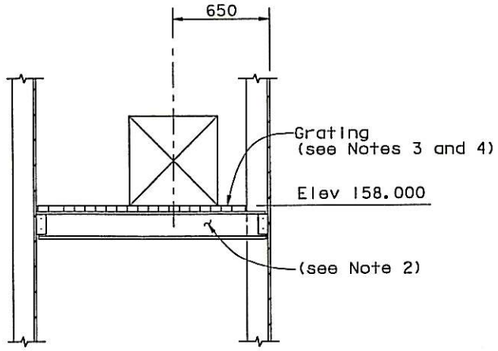
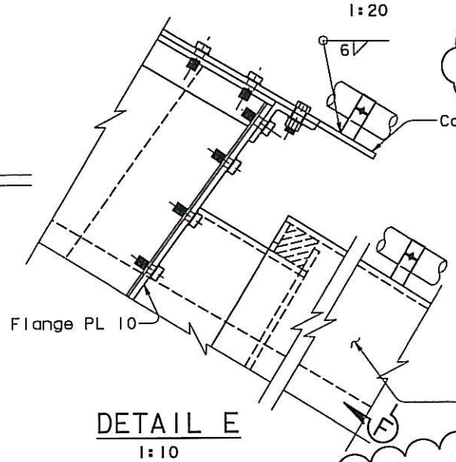


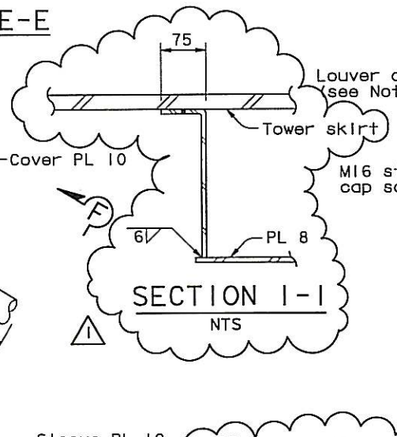
DETAIL D
1:20



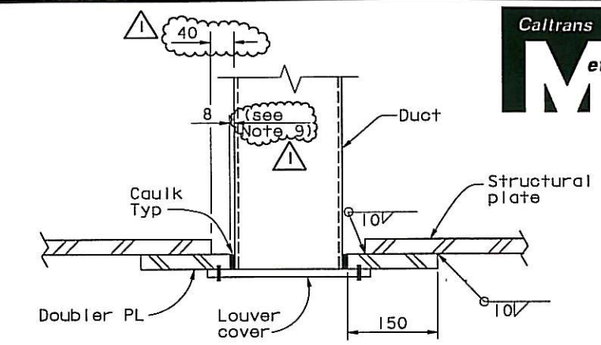
SECTION E-E
1:20

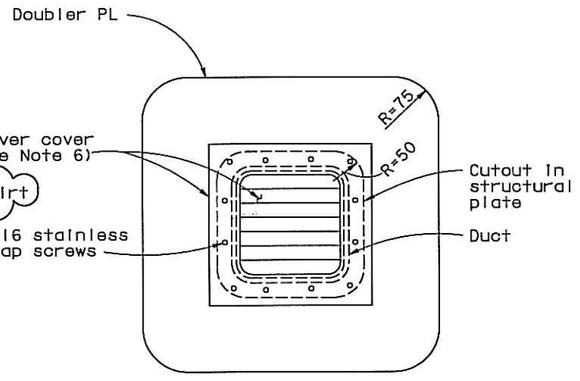


DETAIL E
1:10

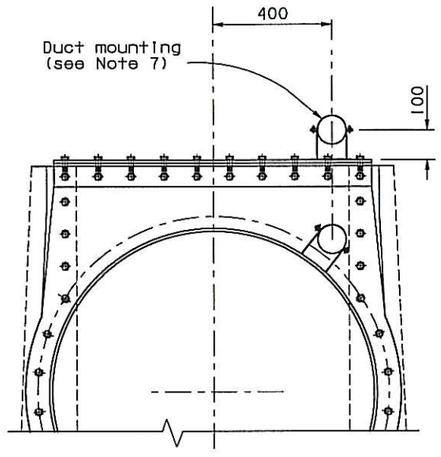


SECTION I-I
NTS





DUCT OPENING DETAIL (see Note 1)
1:5
Rectangular shown, circular similar



SECTION F-F
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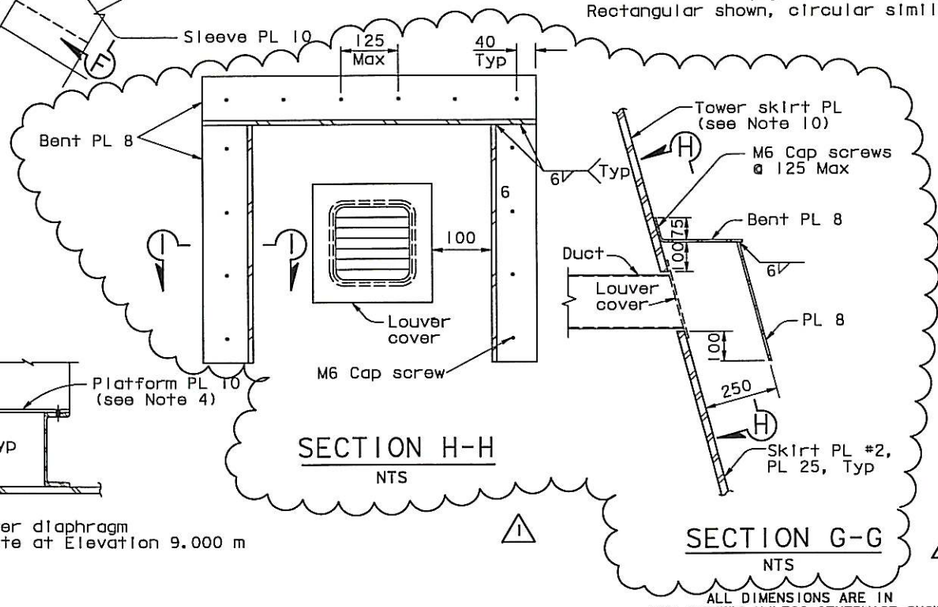

SECTION H-H
NTS

SECTION G-G
NTS

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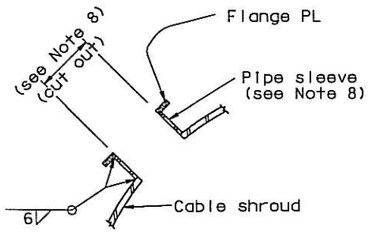
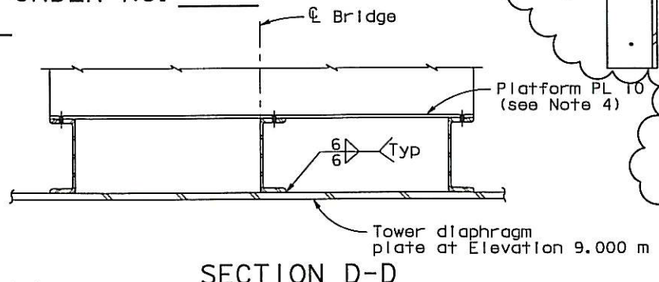


CABLE SHROUD DUCT CONNECTION (see Note 8)
1:5



SECTION D-D
1:10

NOTES:

1. For all duct openings doubler plates shall equal the penetrated structural plate.
2. For walkway support beams, see "Tower Access Details No.3" sheet.
3. Galvanized steel grating with fasteners to be provided by contractor. Grating working load shall be 7.0 kN/m (145 psf).
4. Base frames, support beams and fasteners shall be detailed to fit the dehumidifier.
5. For support platform details not shown, see "Dehumidification Support Details No.3" sheet.
6. For louver locations and details, see "East Cable Anchorage Dehumidification" sheets.
7. For similar duct mounting, see Detail B on "East Cable Anchorage Dehumidification Detail No.2" in the mechanical sheets.
8. Cable shroud pipe sleeve and duct connection shall be detailed to permit airtight bolted attachment of the dehumidification ducts. See mechanical sheets.
9. At Contractor's option, a gap of up to 25 mm may be used. For 25 mm gap, caulking with backing shall be used.
10. For tower skirt, doubler PL not used.

FOR REVISIONS ONLY

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
		REVISIONS			
1	05/23/07	DEHUMIDIFICATION SYSTEM	GB	DT	32

CONTRACT CHANGE ORDER NO. ____
SHEET ____ OF ____

Daniel J. Turner, No. C 65033, Exp. 06/30/07, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 05/23/07

	BY	CHECKED
DESIGN	G. Baker	T. Ho
DETAILS	C. Mauch	T. Ho
QUANTITIES	C. Mauch	D. Harrison

PREPARED FOR THE STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

CU 04
EA 0120F1

BRIDGE NO. 34-0006L/R
KILOMETER POST 13.2/13.9

SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
SELF-ANCHORED SUSPENSION BRIDGE
(SUPERSTRUCTURE & TOWER)
DEHUMIDIFICATION SUPPORT DETAILS NO.5

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 01/06/02, 07/01/02, 12/19/02

SHEET 544R1 OF

Rev. Date: 5-18-98

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

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TIME PLOTTED => 11:19:31
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