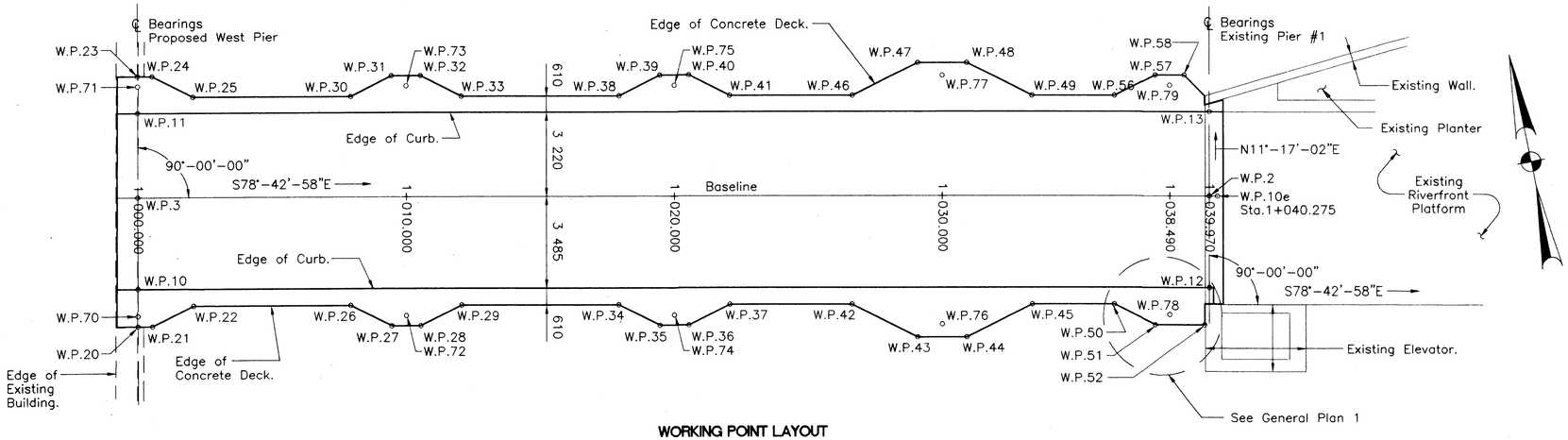
FHWA REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN	HARTFORD	TEA-PEDS(40)	63-529	1999	–	7	58



WORKING POINT LAYOUT

SCALE 1:100

W.P.	DESCRIPTION	℄ STATION	OFFSET	COORDINATES NORTH	COORDINATES EAST
10e	W.P. Platform Project	1+040.275	0	103 492.3623	189 557.8266
2	℄ Fixed Bearing	1+039.970	0	103 492.4220	189 557.5275
3	℄ Expansion Bearing	1+000.000	0	103 500.2429	189 518.3301
10	Edge of Curb	1+000.000	3 485 Rt.	103 496.8253	189 517.6482
11	Edge of Curb	1+000.000	3 220 Lft.	103 503.4007	189 518.9602
12	Edge of Curb	1+039.970	3 485 Rt.	103 489.0043	189 556.8456
13	Edge of Curb	1+039.970	3 220 Lft.	103 495.5797	189 558.1576
20	Edge of Deck	1+000.000	4 855 Rt.	103 495.4818	189 517.3801
21	Edge of Deck	1+000.540	4 855 Rt.	103 495.3761	189 517.9097
22	Edge of Deck	1+002.060	4 095 Rt.	103 495.8240	189 519.5490
23	Edge of Deck	1+000.000	4 590 Lft.	103 504.7442	189 519.2283
24	Edge of Deck	1+000.540	4 590 Lft.	103 504.6385	189 519.7578
25	Edge of Deck	1+002.060	3 830 Lft.	103 503.5958	189 521.0997
26	Edge of Deck	1+007.940	4 095 Rt.	103 494.6735	189 525.3154
27	Edge of Deck	1+009.460	4 855 Rt.	103 493.6307	189 526.6573
28	Edge of Deck	1+010.540	4 855 Rt.	103 493.4194	189 527.7164
29	Edge of Deck	1+012.060	4 095 Rt.	103 493.8673	189 529.3557
30	Edge of Deck	1+007.940	3 830 Lft.	103 502.4453	189 526.8661
31	Edge of Deck	1+009.460	4 590 Lft.	103 502.8932	189 528.5054
32	Edge of Deck	1+010.540	4 590 Lft.	103 502.6818	189 529.5645
33	Edge of Deck	1+012.060	3 830 Lft.	103 501.6391	189 530.9064
34	Edge of Deck	1+017.940	4 095 Rt.	103 492.7168	189 535.1221
35	Edge of Deck	1+019.460	4 855 Rt.	103 491.6740	189 536.4640
36	Edge of Deck	1+020.540	4 855 Rt.	103 491.4627	189 537.5231
37	Edge of Deck	1+022.060	4 095 Rt.	103 491.9106	189 539.1624
38	Edge of Deck	1+017.940	3 830 Lft.	103 500.4886	189 536.6728
39	Edge of Deck	1+019.460	4 590 Lft.	103 500.9365	189 538.3121
40	Edge of Deck	1+020.540	4 590 Lft.	103 500.7251	189 539.3712
41	Edge of Deck	1+022.060	3 830 Lft.	103 499.6824	189 540.7131
42	Edge of Deck	1+026.645	4 095 Rt.	103 491.0134	189 543.6588
43	Edge of Deck	1+029.085	5 315 Rt.	103 489.3396	189 545.8129
44	Edge of Deck	1+030.915	5 315 Rt.	103 488.9815	189 547.6075
45	Edge of Deck	1+033.355	4 095 Rt.	103 489.7005	189 550.2391
46	Edge of Deck	1+026.645	3 830 Lft.	103 498.7853	189 545.2095
47	Edge of Deck	1+029.085	5 050 Lft.	103 499.5042	189 547.8410
48	Edge of Deck	1+030.915	5 050 Lft.	103 499.1462	189 549.6357
49	Edge of Deck	1+033.355	3 830 Lft.	103 497.4723	189 551.7898
50	Edge of Deck	1+036.430	4 095 Rt.	103 489.0988	189 553.2547
51	Edge of Deck	1+037.950	4 855 Rt.	103 488.0561	189 554.5966
52	Edge of Deck	1+039.030	4 855 Rt.	103 487.8448	189 555.6557
56	Edge of Deck	1+036.430	3 830 Lft.	103 496.8706	189 554.8053
57	Edge of Deck	1+037.950	4 590 Lft.	103 497.3185	189 556.4447
70	Cable Connection	1+000.000	4 475 Rt.	103 495.8544	189 517.4545
71	Cable Connection	1+000.000	4 210 Lft.	103 504.3715	189 519.1539
72	Cable Connection	1+010.000	4 475 Rt.	103 493.8977	189 527.2612
73	Cable Connection	1+010.000	4 210 Lft.	103 502.4148	189 528.9606
74	Cable Connection	1+020.000	4 475 Rt.	103 491.9410	189 537.0679
75	Cable Connection	1+020.000	4 210 Lft.	103 500.4581	189 538.7673
76	Steel Mast Connection	1+030.000	4 833 Rt.	103 489.6337	189 546.8046
77	Steel Mast Connection	1+030.000	4 568 Lft.	103 498.8520	189 548.6439
78	Cable Connection	1+038.490	4 475 Rt.	103 488.3231	189 555.2005
79	Cable Connection	1+038.490	4 210 Lft.	103 496.8402	189 556.8999

STRUCTURAL STEEL:
See Structural Steel Notes for designations and requirements.

FOUNDATION PRESSURES AND PILE LOADS:
The various group loadings noted on the substructure plan sheets refer to the group loads as given in the AASHTO Standard Specifications for Highway Bridges.

UTILITIES:
MDC – Sanitary Sewer (underground) & Hydrant
City of Hartford – Light Pole
Hartford Steam Co. – Chilled Water (underground)

DIMENSION NOTES:
When dimensions are given to less than three decimal places, the omitted digits are assumed to be zeros.
All horizontal dimensions are shown in millimeters unless otherwise noted.
All elevations shown are in meters.

NOTICE TO BRIDGE INSPECTORS

The Department's Bridge Safety procedures require this bridge to be inspected for, but not limited to, all appropriate components indicated in the governing manuals for bridge inspection Attention must be given to inspecting the following special components and details. (The listing for components for specific attention shall not be construed to reduce the importance of inspection of any other component of the structure.) The frequency of inspection of this structure shall be in accordance with the governing manuals for bridge inspection., unless otherwise directed by the Manager of Bridge Safety and Evaluation.

Component or Detail	Structure Sheet Reference
Bolted Field Splice	10B
Bearing Plate Field Welds	15B
Bolted Mast Connections	26B

CONCRETE DISTRIBUTION		
Superstructure	120	m^3
Substructure	45	m^3
Footings	5	m^3
TOTAL	170	m^3

INSPECTION OF FIELD WELDS		
METHODS	UNIT	QUANTITY
Ultrasonic	mm	0
Magnetic Particle	m	0

ESTIMATED QUANTITIES

ITEM	UNIT	QUANTITY
Architectural Elements for Pedestrian Bridge	L.S.	–
Demolition & Reconstruction at Phoenix Building	L.S.	–
Architectural Superstructure	L.S.	–
Fascia Panel	L.S.	–
Architectural Precast Panels	L.S.	–
Rock Excavation	m^3	10
Structure Excavation – Earth (Complete)	m^3	210
Pervious Structure Backfill	m^3	165
Shear Connectors	L.S.	–
Bridge Scupper – Fiberglass Hopper	EA.	2
200 mm Pipe for Bridge Drainage	m	25
Elastomeric Concrete Expansion Joint System	m	10
Flexible Floor & Wall Joint	m	10
Pot, Spherical, or Disc Bearings	EA.	8
Class "A" Concrete	m^3	15
Class "F" Concrete	m^3	155
Underpinning Existing Structure	L.S.	–
Deformed Steel Bars	Kg	5 500
Deformed Steel Bars – Epoxy Coated	Kg	20 000
Drilling Holes and Setting Dowels	Ea.	180
Drilling Holes and Grouting Anchor Bolts	Ea.	16
Structural Steel (Site Number 1)	L.S.	–
Shop Metallizing of Structural Steel	L.S.	–
Galvanizing of Structural Steel	L.S.	–
Membrane Waterproofing (Woven Glass Fabric)	m^2	350
Membrane Waterproofing (Rubberized Ashpalt Sheet)	m^2	30
Removal of Existing Masonry	m^2	1
Decorative Lighting	L.S.	–
Temporary Support of Existing Utilities	L.S.	–

MEMBER	SHIPPING LENGTH	SHIPPING HEIGHT	SHIPPING WIDTH	SHIPPING MASS
G-1 thru G-4	27 655 mm	1 320 mm	610 mm	18 540 kg
(West)				
G-1 thru G-4	12 430 mm	1 320 mm	610 mm	8 500 kg
(East)				

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

NO.	DATE	DESCRIPTION

REVISIONS

GENERAL NOTES:

SPECIFICATIONS:
The Connecticut Department of Transportation Form 815 (1995) including Supplement thereto dated July 1999, and Special Provisions.

DESIGN SPECIFICATIONS:
Standard Specifications for Highway Bridges (AASHTO – 1996), with Interim Specifications up to and including 1997, as supplemented by the Connecticut Department of Transportation Bridge Manual (1997) with revisions.

ALLOWABLE DESIGN STRESSES:
Class 'A' Concrete based on fc' = 21 MPa.
Class 'F' Concrete: based on fc' = 28 MPa.
Reinforcement: ASTM A615M Grade 420, fy = 414 MPa.
Structural Steel: ASTM A709M Grade 345, Fy = 345 MPa.
All superstructure steel, except architectural masts, cables, and connections shall be shop metalized, unless noted otherwise.
Architectural Superstructure masts, cables and connections shall be galvanized unless noted otherwise.
Substructure Steel Pier Columns, Connections, Bolts, and bearing and base plates shall be galvanized unless noted otherwise.

LIVE LOAD: 488 kg/m^2

REMAIN-IN-PLACE FORMS:
The use of Remain-in-Place Forms on this structure is not allowed.

FUTURE PAVING ALLOWANCE: None.

COMPOSITE CONSTRUCTION:
No temporary intermediate supports shall be used during the placing and setting of the concrete deck slab. Temporary supports may be used for structural steel erection only. Construction loads and dead loads will be permitted when directed by the Engineer, but only when the concrete has reached a strength of f'c = 24 MPa.

CLASS 'A' CONCRETE:
Class 'A' Concrete shall be used for the footings and architectural pier.

CLASS 'F' CONCRETE:
Class 'F' Concrete shall be used for the bridge deck and the new west pier.

JOINT SEAL: See Special Provisions.

EXPOSED EDGES:
Exposed edges of concrete shall be beveled 25 mm x 25 mm unless otherwise shown.

REINFORCEMENT:
All reinforcement shall be ASTM A615M, Grade 420. Welded wire mesh shall be ASTM A184.

EPOXY COATED REINFORCEMENT BARS:
All reinforcement in the superstructure including the concrete deck slab and the parapets shall be epoxy coated unless otherwise noted. These Bars shall be included in the pay item for "Deformed Steel Bars (Epoxy Coated)".

CONSTRUCTION JOINTS:
Construction Joints, other than those shown on the plans, will not be permitted without prior approval of the Engineer.

EXISTING DIMENSIONS:
Dimensions and Angles to existing structures shown on these plans are for general reference only. They have been taken from an as-built survey of the Phoenix Building and limited construction of the Platform Project (currently under construction) and are not guaranteed. The coordinates for W.P. 10e were taken from "W.P. 10" of the Platform Project. The Contractor shall take all field measurements necessary to assure proper fit of the work and shall assume full responsibility for their accuracy. When shop drawings based on field measurements are submitted for approval, the field measurements shall also be submitted for reference.

CITY OF HARTFORD

PEDESTRIAN BRIDGE
OVER
COLUMBUS BOULEVARD

GENERAL PLAN 2

ENGINEER: MACCHI ENGINEERS, LLC
DESIGNER: DC | DRAFTER: DC | CHECKER: JB
APPROVED James Brockman DATE: 9-17-99
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. 2B of 28B