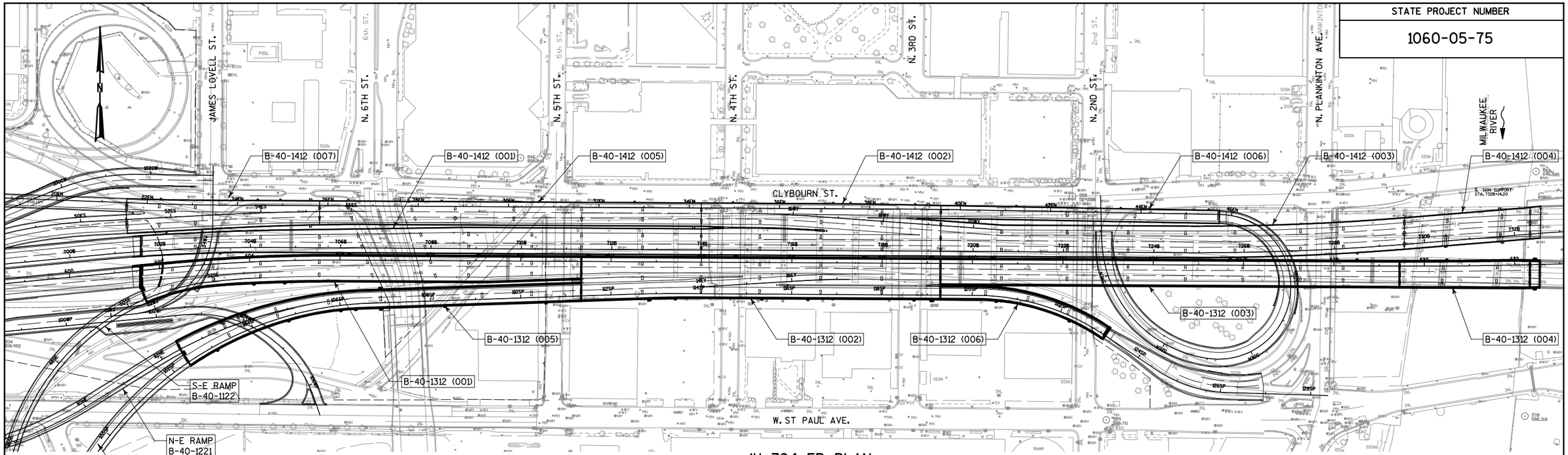
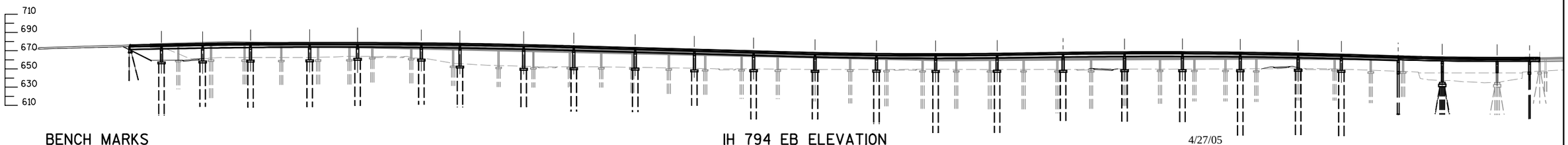
STATE PROJECT NUMBER

1060-05-75



IH 794 EB PLAN



IH 794 EB ELEVATION

BENCH MARKS

NO.	LOCATION	DESCRIPTION	ELEVATION
300	E : 603335 N : 298665	N FLANGE BOLT OF HYD @ NW QUAD OF 6TH AND CLYBOURN	620.45
310	E : 603105 N : 298670	N FLANGE BOLT OF HYD @ NE QUAD OF LOVELL AND CLYBOURN	623.54
312	E : 602315 N : 298880	NW FLANGE BOLT OF HYD @ NE QUAD OF 9TH AND W.MCCAULEY RD.	624.95
320	E : 603490 N : 298665	W FLANGE BOLT OF HYD @ NE QUAD OF 6TH AND CLYBOURN	619.78
330	E : 603860 N : 298595	N FLANGE BOLT OF HYD @ SE QUAD OF 5TH AND CLYBOURN	598.02
340	E : 604240 N : 298595	N FLANGE BOLT OF HYD @ SE QUAD OF 4TH AND CLYBOURN	592.88
350	E : 604765 N : 298665	S COR OF RETAINING WALL +/- 250' WEST OF 2ND AND CLYBOURN 5'W OF BACK WALK OF WI. ELEC. PARKING LOT	593.61

NO.	LOCATION	DESCRIPTION	ELEVATION
360	E : 605105 N : 298650	N FLANGE BOLT OF HYD 1ST HYD EAST OF 2ND AND CLYBOURN N SIDE OF CLYBOURN	590.80
370	E : 605555 N : 298660	N FLANGE BOLT OF HYD @ NE QUAD OF PLANKINGTON AND CLYBOURN	592.23
380	E : 606120 N : 298720	W FLANGE BOLT OF HYD @ NW QUAD OF WATER ST.AND CLYBOURN	591.54
381	E : 606195 N : 298660	W FLANGE BOLT OF HYD @ SE QUAD OF WATER ST.AND CLYBOURN	592.66
390	E : 606450 N : 298735	N FLANGE BOLT OF HYD @ NW QUAD OF BROADWAY AND CLYBOURN	592.97
393	E : 606580 N : 298320	CONCRETE FOOTING @ SW COR. OF LODUCA BLD. 400 N. BROADWAY NE QUAD & ST. PAUL & BROADWAY	592.49

NO.	LOCATION	DESCRIPTION	ELEVATION
400	E : 606130 N : 298265	E FLANGE BOLT OF HYD @ NW QUAD OF WATER ST. AND ST. PAUL	592.18
410	E : 605470 N : 298160	NW FLANGE BOLT OF HYD @ ISLAND OF PLANKINGTON & ST. PAUL	591.68
420	E : 604970 N : 298155	N FLANGE BOLT OF HYD @ NW QUAD OF 2ND AND ST. PAUL	588.91
430	E : 604630 N : 298105	N FLANGE BOLT OF HYD @ SE QUAD OF 3RD AND ST. PAUL	587.89
440	E : 604240 N : 298155	N FLANGE BOLT OF HYD @ NE QUAD OF 4TH AND ST. PAUL	588.75
450	E : 603850 N : 298160	N FLANGE BOLT OF HYD @ NE QUAD OF 5TH AND ST. PAUL	591.30

4/27/05

WISCONSIN
KARL E. SCHMID
E-30812
MILWAUKEE, WIS.
PROFESSIONAL ENGINEER

BRIDGE OFFICE CONTACTS:
PHIL CIHA (262) 548-8742

CONSULTANT CONTACT:
KARL SCHMID (414) 212-4400

Milwaukee Transportation Partners LLC

NO.	DATE	REVISION	BY

WISDOT
BUREAU OF STRUCTURES

STRUCTURE B-40-1312

MARQUETTE INTERCHANGE - IH 794 EAST OF CORE

COUNTY MILWAUKEE		~~TOWN~~/CITY/~~VILLAGE~~ MILWAUKEE	
DESIGN SPEC. AASHTO 2002		LOAD HS-25	CONST. SPEC. 2004
DESIGNED BY NAZ/EKM	DESIGN CK'D DMF/KES	DRAWN BY EKM/DSS	PLANS CK'D. KES

APPROVED G. H. Anderson 4-30-05
STATE BRIDGE ENGINEER — DATE

GENERAL PLAN & ELEVATION

SHEET 1 OF 396
2869
DATE: APRIL 2005

8

FILE NAME: R:\c\bridges\1312\cds\1312-00C001D.dgn PEN TABLE: \\mtp\FinalDgn\config\plot\pentbls\bridge.pen Date: 26-APR-2005 14:09 Plotted by: emccrigh

STATE PROJECT NUMBER

1060-05-75

UNIT 001

1. GENERAL PLAN
2. DRAWING LIST
3. GENERAL NOTES 1
4. GENERAL NOTES 2
5. QUANTITY SUMMARY
6. QUANTITIES (UNIT 001)
7. QUANTITIES (UNIT 002)
8. QUANTITIES (UNIT 003)
9. QUANTITIES (UNIT 004)
10. QUANTITIES (UNIT 005)
11. QUANTITIES (UNIT 006)
12. 001 GENERAL PLAN AND ELEVATION 1
13. 001 GENERAL PLAN AND ELEVATION 2
14. SUBSURFACE EXPLORATION UNIT 001
15. SUBSURFACE EXPLORATION UNIT 001
16. TYPICAL SECTION
17. ALIGNMENT
18. ABUTMENT A1-001
19. ABUTMENT A1-001 DETAILS
20. ABUTMENT A1-001 REINF. SCHEDULE
21. PIER P1-001
22. PIER P1-001 REINF. LAYOUT
23. PIER P1-001 CAP REINF. LAYOUT
24. PIER P1-001 REINF. SCHEDULE
25. PIER P2-001
26. PIER P2-001 REINF. LAYOUT
27. PIER P2-001 DETAILS
28. PIER P2-001 REINF. SCHEDULE
29. PIER P3-001
30. PIER P3-001 REINF. LAYOUT
31. PIER P3-001 DETAILS
32. PIER P3-001 REINF. SCHEDULE
33. PIER P4-001
34. PIER P4-001 REINF. LAYOUT
35. PIER P4-001 DETAILS
36. PIER P4-001 REINF. SCHEDULE
37. PIER P5-001
38. PIER P5-001 REINF. LAYOUT
39. PIER P5-001 DETAILS
40. PIER P5-001 REINF. SCHEDULE
41. PIER P6-001
42. PIER P6-001 REINF. LAYOUT
43. PIER P6-001 DETAILS
44. PIER P6-001 REINF. SCHEDULE
45. PIER P7-001
46. PIER P7-001 REINF. LAYOUT
47. PIER P7-001 DETAILS
48. PIER P7-001 REINF. SCHEDULE
49. PIER P8-001
50. PIER P8-001 REINF. LAYOUT
51. PIER P8-001 DETAILS
52. PIER P8-001 REINF. SCHEDULE
53. PIER P9-001
54. PIER P9-001 REINF. LAYOUT
55. PIER P9-001 DETAILS
56. PIER P9-001 REINF. SCHEDULE
57. PIER P10-001
58. PIER P10-001 REINF. LAYOUT
59. PIER P10-001 DETAILS
60. PIER P10-001 REINF. SCHEDULE
61. 72"W PRESTRESSED GIRDER DETAILS 1
62. 72"W PRESTRESSED GIRDER DETAILS 2
63. 72"W PRESTRESSED GIRDER DETAILS 3
64. GIRDER FRAMING PLAN 1
65. GIRDER FRAMING PLAN 2
66. GIRDER FRAMING PLAN 3
67. GIRDER FRAMING PLAN 4
68. DECK PLAN / REINFORCEMENT 1
69. DECK PLAN / REINFORCEMENT 2
70. DECK PLAN / REINFORCEMENT 3

UNIT 002

71. DECK PLAN / REINFORCEMENT 4
72. DECK CROSS SECTION 1
73. DECK CROSS SECTION 2
74. DECK CROSS SECTION 3
75. DECK CROSS SECTION 4
76. DECK CROSS SECTION 5
77. SUPERSTRUCTURE DETAILS 1
78. SUPERSTRUCTURE DETAILS 2
79. SUPERSTRUCTURE DETAILS 3
80. SUPERSTRUCTURE DETAILS 4
81. SUPERSTRUCTURE DETAILS 5
82. SUPERSTRUCTURE DETAILS 6
83. SUPERSTRUCTURE DETAILS 7
84. SUPERSTRUCTURE REINF. SCHEDULE 1
85. SUPERSTRUCTURE REINF. SCHEDULE 2
86. PARAPET ELEVATIONS
87. PARAPET SECTIONS
88. PARAPET EMBEDDED WORK
89. PARAPET DETAILS
90. PARAPET REINF. SCHEDULE
91. 002 GENERAL PLAN AND ELEVATION 1
92. 002 GENERAL PLAN AND ELEVATION 2
93. SUBSURFACE EXPLORATION UNIT 002
94. SUBSURFACE EXPLORATION UNIT 002
95. TYPICAL SECTION
96. ALIGNMENT
97. PIER P1-002
98. PIER P1-002 REINF. LAYOUT
99. PIER P1-002 DETAILS
100. PIER P1-002 REINF. SCHEDULE
101. PIER P2-002
102. PIER P2-002 REINF. LAYOUT
103. PIER P2-002 DETAILS
104. PIER P2-002 REINF. SCHEDULE
105. PIER P3-002
106. PIER P3-002 REINF. LAYOUT
107. PIER P3-002 DETAILS
108. PIER P3-002 REINF. SCHEDULE
109. PIER P4-002
110. PIER P4-002 REINF. LAYOUT
111. PIER P4-002 DETAILS
112. PIER P4-002 REINF. SCHEDULE
113. PIER P5-002
114. PIER P5-002 REINF. LAYOUT
115. PIER P5-002 DETAILS
116. PIER P5-002 REINF. SCHEDULE
117. PIER P6-002
118. PIER P6-002 REINF. LAYOUT
119. PIER P6-002 DETAILS
120. PIER P6-002 REINF. SCHEDULE
121. 72"W PRESTRESSED GIRDER DETAILS 1
122. 72"W PRESTRESSED GIRDER DETAILS 2
123. GIRDER FRAMING PLAN 1
124. GIRDER FRAMING PLAN 2
125. GIRDER FRAMING PLAN 3
126. DECK PLAN / REINFORCEMENT 1
127. DECK PLAN / REINFORCEMENT 2
128. DECK PLAN / REINFORCEMENT 3
129. DECK CROSS SECTION 1
130. DECK CROSS SECTION 2
131. DECK CROSS SECTION 3
132. SUPERSTRUCTURE DETAILS 1
133. SUPERSTRUCTURE DETAILS 2
134. SUPERSTRUCTURE DETAILS 3
135. SUPERSTRUCTURE DETAILS 4
136. SUPERSTRUCTURE DETAILS 5
137. SUPERSTRUCTURE REINF. SCHEDULE
138. PARAPET ELEVATIONS
139. PARAPET SECTIONS
140. PARAPET EMBEDDED WORK

UNIT 003

141. DOUBLE FACE BARRIER 1
142. DOUBLE FACE BARRIER 2
143. 30 INCH CRASH CUSHION DETAILS
144. PARAPET DETAILS
145. PARAPET REINF. SCHEDULE
146. 003 GENERAL PLAN AND ELEVATION 1
147. 003 GENERAL PLAN AND ELEVATION 2
148. SUBSURFACE EXPLORATION UNIT 003
149. SUBSURFACE EXPLORATION UNIT 003
150. TYPICAL SECTION
151. ALIGNMENT
152. PIER 1-003
153. PIER 1-003 REINF. LAYOUT
154. PIER 1-003 DETAILS
155. PIER 1-003 REINF. SCHEDULE
156. PIER 2-003
157. PIER 2-003 REINF. LAYOUT
158. PIER 2-003 DETAILS
159. PIER 2-003 REINF. SCHEDULE
160. PIER 3-003
161. PIER 3-003 REINF. LAYOUT
162. PIER 3-003 DETAILS
163. PIER 3-003 REINF. SCHEDULE
164. PIER 4-003
165. PIER 4-003 REINF. LAYOUT
166. PIER 4-003 DETAILS
167. PIER 4-003 REINF. SCHEDULE
168. PIER 5-003
169. PIER 5-003 REINF. LAYOUT
170. PIER 5-003 DETAILS
171. PIER 5-003 REINF. SCHEDULE
172. PIER 6-003
173. PIER 6-003 REINF. LAYOUT
174. PIER 6-003 DETAILS
175. PIER 6-003 REINF. SCHEDULE
176. PIER 7-003
177. PIER 7-003 REINF. LAYOUT
178. PIER 7-003 DETAILS
179. PIER 7-003 REINF. SCHEDULE
180. 72"W PRESTRESSED GIRDER DETAILS 1
181. 72"W PRESTRESSED GIRDER DETAILS 2
182. GIRDER FRAMING PLAN 1
183. GIRDER FRAMING PLAN 2
184. GIRDER FRAMING PLAN 3
185. GIRDER FRAMING PLAN 4
186. DECK PLAN / REINFORCEMENT 1
187. DECK PLAN / REINFORCEMENT 2
188. DECK PLAN / REINFORCEMENT 3
189. DECK PLAN / REINFORCEMENT 4
190. DECK CROSS SECTION
191. SUPERSTRUCTURE DETAILS 1
192. SUPERSTRUCTURE DETAILS 2
193. SUPERSTRUCTURE DETAILS 3
194. SUPERSTRUCTURE DETAILS 4
195. SUPERSTRUCTURE DETAILS 5
196. SUPERSTRUCTURE REINF. SCHEDULE
197. PARAPET ELEVATIONS
198. PARAPET SECTIONS
199. PARAPET EMBEDDED WORK
200. PARAPET DETAILS
201. PARAPET REINF. SCHEDULE
202. 004 GENERAL PLAN AND ELEVATION
203. SUBSURFACE EXPLORATION UNIT 004
204. TYPICAL SECTIONS
205. ALIGNMENT & PROFILE
206. PIER P1-004
207. PIER P1-004 FOOTING PLAN
208. PIER P1-004 REINF. LAYOUT & DETAILS
209. PIER P1-004 REINF. SCHEDULE
210. PIER P2-004

UNIT 004

211. PIER P2-004 REINF. LAYOUT
212. PIER P2-004 FOOTING PLAN
213. PIER P2-004 DETAILS
214. PIER P2-004 REINF. SCHEDULE
215. PIER P3-004
216. PIER P3-004 REINF. LAYOUT
217. PIER P3-004 DETAILS
218. PIER P3-004 REINF. SCHEDULE
219. PIER P4-004
220. PIER P4-004 REINF. LAYOUT & DETAILS
221. PIER P4-004 FOOTING PLAN
222. PIER P4-004 REINF. SCHEDULE
223. GIRDER FRAMING PLAN
224. PLATE GIRDER ELEVATION 1
225. PLATE GIRDER ELEVATION 2
226. PLATE GIRDER DETAILS
227. CAMBER, BLOCKING, & DEFLECTIONS
228. INTERMEDIATE DIAPHRAGM 1
229. INTERMEDIATE DIAPHRAGM 2
230. INTERMEDIATE DIAPHRAGM 3
231. DECK PLAN / REINFORCEMENT 1
232. DECK CROSS SECTION STEEL PLATE GIRDER
233. DECK CROSS SECTION CONCRETE SLAB
234. SUPERSTRUCTURE DETAILS 1
235. SUPERSTRUCTURE DETAILS 2
236. SUPERSTRUCTURE DETAILS 3
237. SUPERSTRUCTURE DETAILS 4
238. SUPERSTRUCTURE DETAILS 5
239. SUPERSTRUCTURE REINF. SCHEDULE
240. PARAPET ELEVATIONS
241. PARAPET SECTIONS
242. PARAPET EMBEDDED WORK
243. PARAPET DETAILS
244. PARAPET REINFORCEMENT SCHEDULE
245. EXISTING PIER 3 DETAILS
246. 005 GENERAL PLAN AND ELEVATION 1
247. 005 GENERAL PLAN AND ELEVATION 2
248. SUBSURFACE EXPLORATION UNIT 005
249. SUBSURFACE EXPLORATION UNIT 005
250. TYPICAL SECTION
251. ALIGNMENT
252. PIER P1A-005
253. PIER P1A-005 REINF. LAYOUT
254. PIER P1A-005 CAP REINF. LAYOUT
255. PIER P1A-005 REINF. SCHEDULE
256. PIER P1B-005
257. PIER P1B-005 REINF. LAYOUT
258. PIER P1B-005 CAP REINF. LAYOUT
259. PIER P1B-005 REINF. SCHEDULE
260. PIER P2-005
261. PIER P2-005 REINF. LAYOUT
262. PIER P2-005 DETAILS
263. PIER P2-005 REINF. SCHEDULE
264. PIER P3-005
265. PIER P3-005 REINF. LAYOUT
266. PIER P3-005 DETAILS
267. PIER P3-005 REINF. SCHEDULE
268. PIER P4-005
269. PIER P4-005 REINF. LAYOUT
270. PIER P4-005 DETAILS
271. PIER P4-005 REINF. SCHEDULE
272. PIER P5-005
273. PIER P5-005 REINF. LAYOUT
274. PIER P5-005 DETAILS
275. PIER P5-005 REINF. SCHEDULE
276. PIER P6-005
277. PIER P6-005 REINF. LAYOUT
278. PIER P6-005 DETAILS
279. PIER P6-005 REINF. SCHEDULE
280. PIER P7-005

UNIT 005

281. PIER P7-005 REINF. LAYOUT
282. PIER P7-005 DETAILS
283. PIER P7-005 REINF. SCHEDULE
284. PIER P8-005
285. PIER P8-005 REINF. LAYOUT
286. PIER P8-005 DETAILS
287. PIER P8-005 REINF. SCHEDULE
288. PIER P9-005
289. PIER P9-005 REINF. LAYOUT
290. PIER P9-005 DETAILS
291. PIER P9-005 REINF. SCHEDULE
292. 72"W PRESTRESSED GIRDER DETAILS 1
293. 72"W PRESTRESSED GIRDER DETAILS 2
294. 72"W PRESTRESSED GIRDER DETAILS 3
295. GIRDER FRAMING PLAN 1
296. GIRDER FRAMING PLAN 2
297. GIRDER FRAMING PLAN 3
298. GIRDER FRAMING PLAN 4
299. DECK PLAN / REINFORCEMENT 1
300. DECK PLAN / REINFORCEMENT 2
301. DECK PLAN / REINFORCEMENT 3
302. DECK PLAN / REINFORCEMENT 4
303. DECK CROSS SECTION 1
304. DECK CROSS SECTION 2
305. DECK CROSS SECTION 3
306. DECK CROSS SECTION 4
307. SUPERSTRUCTURE DETAILS 1
308. SUPERSTRUCTURE DETAILS 2
309. SUPERSTRUCTURE DETAILS 3
310. SUPERSTRUCTURE DETAILS 4
311. SUPERSTRUCTURE DETAILS 5
312. SUPERSTRUCTURE REINF. SCHEDULE
313. PARAPET ELEVATIONS
314. PARAPET SECTIONS
315. PARAPET EMBEDDED WORK
316. PARAPET DETAILS
317. PARAPET REINF. SCHEDULE
318. 006 GENERAL PLAN AND ELEVATION
319. SUBSURFACE EXPLORATION UNIT 006
320. TYPICAL SECTION
321. ALIGNMENT
322. PIER P1-006
323. PIER P1-006 REINF. LAYOUT
324. PIER P1-006 DETAILS
325. PIER P1-006 REINF. SCHEDULE
326. PIER P2-006
327. PIER P2-006 REINF. LAYOUT
328. PIER P2-006 DETAILS
329. PIER P2-006 REINF. SCHEDULE
330. PIER P3-006
331. PIER P3-006 REINF. LAYOUT
332. PIER P3-006 DETAILS
333. PIER P3-006 REINF. SCHEDULE
334. ABUTMENT A1-006
335. ABUTMENT A1-006 REINF. SCHEDULE
336. 54"W PRESTRESSED GIRDER DETAILS 1
337. 54"W PRESTRESSED GIRDER DETAILS 2
338. 54"W PRESTRESSED GIRDER DETAILS 3
339. GIRDER FRAMING PLAN 1
340. GIRDER FRAMING PLAN 2
341. DECK PLAN / REINFORCEMENT 1
342. DECK PLAN / REINFORCEMENT 2
343. DECK CROSS SECTION
344. SUPERSTRUCTURE DETAILS 1
345. SUPERSTRUCTURE DETAILS 2
346. SUPERSTRUCTURE DETAILS 3
347. SUPERSTRUCTURE REINF. SCHEDULE
348. PARAPET ELEVATIONS
349. PARAPET SECTIONS
350. PARAPET EMBEDDED WORK

STD. DETAILS

351. PARAPET DETAILS
352. PARAPET REINF. SCHEDULE
353. PRECAST DECK PANEL ALTERNATIVES
354. 72"W STEEL DIAPHRAGM DETAILS
355. 54"W STEEL DIAPRAGM DETAILS
356. PRESTRESS GIRDER BEARINGS 1
357. PRESTRESS GIRDER BEARINGS 2
358. PRESTRESS GIRDER BEARINGS 3
359. PLATE GIRDER BEARINGS
360. ELASTOMERIC BEARING PAD DETAILS
361. STRIP SEAL DETAILS 1
362. STRIP SEAL DETAILS 2
363. COVER PLATES FOR LF/HF PARAPET - STRIP SEAL JOINTS
364. COVER PLATES FOR VERTICAL FACE PARAPET - STRIP SEAL JOINTS
365. MODULAR EXPANSION JOINT DETAILS 1
366. MODULAR EXPANSION JOINT DETAILS 2
367. COVER PLATES FOR LF PARAPET MOD. EXPANSION JT.
368. COVER PLATES FOR HF PARAPET MOD. EXPANSION JT.
369. FLOOR DRAIN, TYPE A
370. FLOOR DRAIN, TYPE A DETAILS
371. FLOOR DRAIN, TYPE B
372. FLOOR DRAIN, TYPE B DETAILS
373. LF PARAPET LIGHT POLE BASE
374. LF PARAPET LIGHT POLE BASE REINFORCEMENT
375. HF PARAPET LIGHT POLE BASE
376. HF PARAPET LIGHT POLE BASE REINFORCEMENT
377. LF PARAPET SIGN BRIDGE BASE
378. LF PARAPET SIGN BRIDGE BASE REINFORCEMENT
379. HF PARAPET SIGN BRIDGE BASE
380. HF PARAPET SIGN BRIDGE BASE REINFORCEMENT
381. HF PARAPET SIGN BRIDGE BASE AT SLAB STRUCTURE
382. HF PARAPET SIGN BRIDGE BASE REINFORCEMENT AT SLAB STRUCTURE
383. CONCRETE STAINING DETAILS 1
384. CONCRETE STAINING DETAILS 2
385. CONCRETE STAINING DETAILS 3
386. CONCRETE STAINING DETAILS 4
387. CONCRETE STAINING DETAILS 5
388. CONCRETE STAINING DETAILS 6
389. PIER DRAIN ELEVATION 1
390. PIER DRAIN ELEVATION 2
391. PIER DRAIN ELEVATION 3
392. PIER DRAIN ELEVATION 4
393. PIER DRAIN ELEVATION 5
394. PIER DRAIN DETAILS 1
395. PIER DRAIN DETAILS 2
396. MISCELLANEOUS DETAILS

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

DRAWING LIST

SHEET 2 OF 396

2870

STATE PROJECT NUMBER

1060-05-75

GENERAL

1. DRAWINGS SHALL NOT BE SCALED.
2. ALL DIMENSIONS ARE IN FEET AND INCHES. ALL STATIONS AND ELEVATIONS ARE IN FEET.
3. ELEVATIONS ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD). ELEVATIONS ON ORIGINAL EXPRESSWAY DRAWINGS WERE REFERENCED TO CITY OF MILWAUKEE DATUM. MILWAUKEE DATUM + 580.60' = NGVD DATUM.
4. GIRDERS AND OTHER ELEMENTS OF THE STRUCTURE ARE REFERRED TO AS 'LEFT' AND 'RIGHT'. THESE DIRECTIONS ARE WITH RESPECT TO THE REFERENCE LINE WHEN LOOKING IN THE DIRECTION OF INCREASING STATION.
5. TRANSVERSE DIMENSIONS ARE RADIAL TO THE REFERENCE LINE UNLESS NOTED OTHERWISE.
6. THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.
7. PROVIDE TEMPORARY NAVIGATIONAL LIGHTING FOR THE MILWAUKEE RIVER THROUGHOUT THE DURATION OF CONSTRUCTION.
8. PROVIDE A NAME PLATE FOR EACH UNIT AS SHOWN ON THE PLANS

EXCAVATION AND BACKFILL

9. THE FINISHED GRADE LINE SHALL BE THE UPPER LIMIT OF EXCAVATION FOR STRUCTURES.
10. PROVIDE STRUCTURE BACKFILL WITH GRADATION CONFORMING TO THE REQUIREMENTS FOR GRADE 1 MATERIAL IN ACCORDANCE WITH SECTION 209 OF THE SPECIFICATIONS.

EXISTING STRUCTURES

11. ONE OR MORE EXISTING STRUCTURES IN THE CORE AREA ARE TO BE REMOVED AS PART OF THIS CONTRACT. SEE SPECIAL PROVISIONS AND REMOVAL PLANS FOR MORE INFORMATION.
12. EXISTING BRIDGE PLANS ARE AVAILABLE FOR REVIEW AT:

    WISCONSIN DEPT OF TRANSPORTATION - DISTRICT 2
    WAUKESHA STATE OFFICE BUILDING
    141 NW BARSTOW STREET
    WAUKESHA, WI

    CONTACT: PHIL CIHA (262) 548-8742

DESIGN

13. DESIGN IS IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SEVENTEENTH EDITION, 2002, LOAD FACTOR DESIGN UNLESS NOTED OTHERWISE.
14. FATIGUE EFFECTS WERE ASSESSED USING HS20 LOADING 2,000,000 CYCLES FOR MULTIPLE LANES LOADED OVER 2,000,000 CYCLES FOR SINGLE LANE LOADED.
15. LIVE LOAD DEFLECTION LIMIT = SPAN / 800 (HS20).
    - PRESTRESSED CONCRETE GIRDERS
    LIVE LOAD DEFLECTION LIMIT = SPAN / 1200 (HS20).
    - STEEL PLATE GIRDERS
16. DESIGN AND RATINGS BASED ON AASHTO 8.7.1:
    Ec, DECK = 4287 ksi
    Ec, GIRDER = 5422 ksi
    N = 0.791

DESIGN LIVE LOAD

17. STRENGTH DESIGN RATING: HS25
18. FATIGUE AND DEFLECTION DESIGN RATING: HS20
19. THE CONCRETE DECK IS DESIGNED FOR A LIVE LOAD OF HS20
20. B-40-1312 UNIT 001 INVENTORY RATING: HS25
    B-40-1312 UNIT 002 INVENTORY RATING: HS25
    B-40-1312 UNIT 003 INVENTORY RATING: HS25
    B-40-1312 UNIT 004 INVENTORY RATING: HS25
    B-40-1312 UNIT 005 INVENTORY RATING: HS25
    B-40-1312 UNIT 006 INVENTORY RATING: HS26
21. B-40-1312 UNIT 001 OPERATING RATING: HS43
    B-40-1312 UNIT 002 OPERATING RATING: HS47
    B-40-1312 UNIT 003 OPERATING RATING: HS43
    B-40-1312 UNIT 004 OPERATING RATING: HS42
    B-40-1312 UNIT 005 OPERATING RATING: HS41
    B-40-1312 UNIT 006 OPERATING RATING: HS33
22. B-40-1312 UNIT 001
    MAXIMUM STANDARD PERMIT VEHICLE: 250 klps
    B-40-1312 UNIT 002
    MAXIMUM STANDARD PERMIT VEHICLE: 250 klps
    B-40-1312 UNIT 003
    MAXIMUM STANDARD PERMIT VEHICLE: 250 klps
    B-40-1312 UNIT 004
    MAXIMUM STANDARD PERMIT VEHICLE: 250 klps
    B-40-1312 UNIT 005
    MAXIMUM STANDARD PERMIT VEHICLE: 250 klps
    B-40-1312 UNIT 006
    MAXIMUM STANDARD PERMIT VEHICLE: 250 klps

OTHER DESIGN LOADS

23. STRUCTURE IS DESIGNED FOR THE WEARING SURFACE OVERLAY SHOWN ON THE DRAWINGS AND PLACED AT INITIAL CONSTRUCTION (25 PSF). NO ADDITIONAL DEAD LOADS FOR FUTURE WEARING SURFACE HAVE BEEN INCLUDED.
24. RELATIVE TEMPERATURE RANGE FOR DETERMINING SUBSTRUCTURE FORCES = -5°F TO +85°F
25. ABSOLUTE TEMPERATURE RANGE FOR DETERMINING BEARING AND EXPANSION JOINT MOVEMENTS = -5°F TO +95°F
26. PARAPERTS WERE ASSUMED TO WEIGHT 600 PLF FOR HF PARAPET AND 490 PLF FOR LF PARAPET.
27. ALL OTHER LOADS IN ACCORDANCE WITH AASHTO.

TRAFFIC DATA

DESIGN SPEED = 55 MPH

EXISTING ADT = 45,560

ESTIMATED ADT (2025) = 42,800

FOUNDATION DESIGN DATA

28. ALL FOUNDATIONS SHALL BE SUPPORTED BY CONCRETE-FILLED STEEL PIPE PILES UNLESS OTHERWISE NOTED:

ABUT A1-001 : 12¾" DIAMETER BY ⅜" WALL THICKNESS WITH WITH AN ALLOWABLE LOAD OF 100 TONS ESTIMATED LENGTH 135'

PIER P1-001 : 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 230 TONS ESTIMATED LENGTH 115'

PIER P2-001 : 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 225 TONS ESTIMATED LENGTH 115'

PIER P3-001 : 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 235 TONS ESTIMATED LENGTH 95'

PIER P4-001 : 16" DIAMETER BY ½" WALL THICKNESS WITH WITH AN ALLOWABLE LOAD OF 215 TONS ESTIMATED LENGTH 95'

PIER P5-001 : 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 190 TONS ESTIMATED LENGTH 95'

PIER P6-001 : 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 205 TONS ESTIMATED LENGTH 95'

PIER P7-001 : 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 200 TONS ESTIMATED LENGTH 95'

PIER P8-001 : 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 220 TONS ESTIMATED LENGTH 80'

PIER P9-001 : 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 230 TONS ESTIMATED LENGTH 75'

PIER P10-001 : 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 210 TONS ESTIMATED LENGTH 85'

PIER P1-002 : 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 215 TONS ESTIMATED LENGTH 85'

PIER P2-002 : 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 195 TONS ESTIMATED LENGTH 75'

PIER P3-002 : 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 190 TONS ESTIMATED LENGTH 105'

PIER P4-002 : 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 210 TONS ESTIMATED LENGTH 105'

PIER P5-002 : 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 210 TONS ESTIMATED LENGTH 110'

PIER P6-002 : 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 215 TONS ESTIMATED LENGTH 110'

PIER P1-003 : 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 205 TONS ESTIMATED LENGTH 130'

PIER P2-003 : 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 200 TONS ESTIMATED LENGTH 130'

PIER P3-003 : 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 195 TONS ESTIMATED LENGTH 130'

PIER P4-003 : 16" DIAMETER BY 1/2" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 220 TONS ESTIMATED LENGTH 110'

PIER P5-003 : 16" DIAMETER BY 1/2" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 205 TONS ESTIMATED LENGTH 135'

PIER P6-003 : 16" DIAMETER BY 1/2" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 205 TONS ESTIMATED LENGTH 135'

PIER P7-003 : 16" DIAMETER BY 1/2" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 215 TONS ESTIMATED LENGTH 135'

PIER P1-004 : 54" DIAMETER DRILLED SHAFT WITH AN ALLOWABLE LOAD OF 351 TONS ESTIMATED LENGTH 110'

PIER P2-004 : HP 12X53 STEEL PILING REQUIRED ALLOWABLE LOAD 55 TONS ESTIMATED LENGTH 55'

PIER P3-004 : EXISTING PILES ONLY NO NEW PILES REQUIRED

PIER P4-004 : 36" DIAMETER DRILLED SHAFT WITH AN ALLOWABLE LOAD OF 200 TONS ESTIMATED LENGTH 100'

PIER P1A-005: 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 250 TONS ESTIMATED LENGTH 115'

PIER P1B-005: 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 225 TONS ESTIMATED LENGTH 115'

PIER P2-005 : 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 200 TONS ESTIMATED LENGTH 85'

PIER P3-005 : 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 200 TONS ESTIMATED LENGTH 90'

PIER P4-005 : 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 200 TONS ESTIMATED LENGTH 85'

PIER P5-005 : 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 230 TONS ESTIMATED LENGTH 95'

PIER P6-005 : 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 230 TONS ESTIMATED LENGTH 85'

PIER P7-005 : 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 230 TONS ESTIMATED LENGTH 75'

PIER P8-005 : 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 230 TONS ESTIMATED LENGTH 75'

PIER P9-005 : 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 230 TONS ESTIMATED LENGTH 75'

PIER P1-006 : 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 230 TONS ESTIMATED LENGTH 130'

PIER P2-006 : 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 235 TONS ESTIMATED LENGTH 130'

PIER P3-006 : 16" DIAMETER BY ½" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 235 TONS ESTIMATED LENGTH 130'

ABUT A1-006 : 12¾" DIAMETER BY ⅜" WALL THICKNESS WITH AN ALLOWABLE LOAD OF 120 TONS ESTIMATED LENGTH 150'

29. PILE LENGTHS SHOWN ARE ESTIMATED FROM DEPTH TO CAPACITY CURVES INCLUDED IN THE FOUNDATION DESIGN REPORT AND ARE INCLUDED FOR INFORMATION ONLY. THESE LENGTHS SHOULD BE CONSIDERED AS THE EXPECTED MINIMUM VALUES - ACTUAL INSTALLED LENGTHS MAY EXCEED THESE VALUES AND WILL BE CONTROLLED BY THE REQUIRED LOAD CAPACITY.
30. BASED ON THE RESULTS OF A NON-LINEAR SOIL-STRUCTURE INTERACTION ANALYSIS, PILE FORCES UNDER OVERTURNING MOMENTS HAVE BEEN CALCULATED ASSUMING FULL PILE CAPACITY IS MOBILIZED AT ALL LOCATIONS.
31. STEEL PIPE PILES SHALL BE IN ACCORDANCE WITH ASTM A252, GRADE 3.

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

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2004	EKM	KES

GENERAL NOTES 1

SHEET 3 OF 396

2871

STATE PROJECT NUMBER

1060-05-75

REINFORCING STEEL

32. REINFORCING STEEL SHALL BE HIGH STRENGTH, GRADE 60 WITH Fy=60 ksi.
33. REINFORCING STEEL SHALL BE UNCOATED IN FOUNDATIONS (EXCEPT DOWELS) AND EPOXY COATED IN ALL OTHER LOCATIONS (INCLUDING FOUNDATION DOWELS).
34. ALL REINFORCING BARS ARE ENGLISH SIZES. THE FIRST DIGIT OF A 3 DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A 4 DIGIT BAR MARK SPECIFY THE BAR SIZE, THE LAST 2 DIGITS SPECIFY A SEQUENTIAL BAR IDENTIFIER.
35. PLACE ALL REINFORCEMENT WITH A MINIMUM CLEAR COVER OF 2" UNLESS NOTED OTHERWISE.
36. PLACE REINFORCEMENT IN FOOTINGS AND PILECAPS WITH A MINIMUM CLEAR COVER OF 3" ON SIDES AND 4" TOP AND BOTTOM UNLESS NOTED OTHERWISE.
37. PLACE TOP LAYER OF REINFORCING STEEL IN THE DECK SURFACE WITH 2½" CLEAR COVER TO TOP OF SLAB (EXCLUDING WEARING SURFACE OVERLAY).
38. PLACE BOTTOM LAYER OF REINFORCING STEEL IN THE DECK WITH 1½" CLEAR COVER.
39. BAR DIMENSIONS FOR FABRICATED BAR SHAPES ARE GIVEN TO THE OUTSIDE OF THE FINISHED SHAPE.
40. ONLY REINFORCEMENT REQUIRED BY DESIGN IS SHOWN EXPLICITLY ON THE DRAWINGS. ADDITIONAL REINFORCEMENT MAY BE USED TO SIMPLIFY ASSEMBLY AND ERECTION OF THE REINFORCING STEEL AND MAY BE REQUIRED TO ENSURE STABILITY AND POSITIONING OF THE COMPLETED REINFORCEMENT CAGE. REINFORCEMENT IN ADDITION TO THAT SHOWN WILL NOT BE INCLUDED FOR PAYMENT.
41. THE BILLS OF BARS CONTAINED IN THIS PLAN SET ARE FOR INFORMATION ONLY. THE CONTRACTOR NEEDS TO VERIFY REINFORCING BAR PLAN QUANTITIES AND WILL BE RESPONSIBLE FOR ANY QUANTITY VARIATIONS.
42. LAP SPLICE LENGTHS, FOR EPOXY COATED BARS THAT ARE NOT EXPLICITLY DIMENSIONED SHALL CONFORM TO THE FOLLOWING TABLE:

	CLASS C SPLICE (OTHERS)		CLASS C SPLICE (TOP)
#4	1'-6"	#4	2'-11"
#5	2'-5"	#5	2'-8"
#6	2'-10"	#6	3'-2"
#7	3'-7"	#7	4'-0"
#8	4'-8"	#8	5'-1"
#9	5'-10"	#9	6'-7"
#10	7'-5"	#10	8'-3"
#11	9'-2"	#11	10'-2"

PIER CAP TOP AND SIDE REINFORCEMENT SHALL USE THE CLASS C SPLICE (TOP), PIER CAP BOTTOM REINFORCEMENT SHALL USE THE CLASS C SPLICE (OTHERS). THESE LENGTHS MAY ALSO BE USED FOR UNCOATED BARS.

STRUCTURAL STEEL

43. ALL STRUCTURAL STEEL FOR PLATE GIRDERS SHALL BE HIGH STRENGTH ASTM A709 (AASHTO M270) GRADE OR HPS50W (Fy=50 ksi)
44. ALL ROLLED SECTIONS SHALL BE IN ACCORDANCE WITH ASTM A709 GRADE 36 (Fy=36 ksi).
45. CHARPY V-NOTCH TOUGHNESS REQUIREMENTS FOR ALL STEEL SHALL CONFORM TO THE REQUIREMENTS FOR ZONE 2.
46. ALL WELDING SHALL BE IN ACCORDANCE WITH AASHTO D1.5 BRIDGE WELDING CODE.
47. BEARING AND EXPANSION JOINT ASSEMBLIES SHALL BE FABRICATED FROM ASTM A709 GRADE 36 MATERIAL (Fy=36 ksi) AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123.
48. MISCELLANEOUS STEEL FABRICATIONS MAY BE GRADE A36 MATERIAL.
49. ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM F1554 (GRADE 105). HOT-DIP GALVANIZED IN ACCORDANCE WITH AASHTO M232.
50. ALL BOLTS SHALL BE ASTM A325 TYPE 1. BOLTS SHALL BE ⅞" DIAMETER UNLESS NOTED OTHERWISE. ALL HOLES SHALL BE STANDARD DIAMETER - NO OVERSIZE HOLES. ALL CONNECTIONS SHALL BE FABRICATED AND ASSEMBLED AS FRICTION-TYPE CONNECTIONS. DESIGN ASSUMED SURFACE CLASS A AND THREADS EXCLUDED FROM THE SHEAR PLANE.
51. ALL STRUCTURAL STEEL SHALL BE PAINTED, INCLUDING CONCEALED SURFACES AND BRACING MEMBERS. THE FINISH COAT COLOR SHALL MATCH COLOR NO. 26293 (LIGHT GREY) IN ACCORDANCE WITH FEDERAL STANDARD 595A.

CONCRETE

52. CONCRETE MASONRY, SUBSTRUCTURES.....f'c=5,000 PSI
    CONCRETE MASONRY (HPC), SUPERSTRUCTURES.....f'c=5,000 PSI
    CONCRETE MASONRY (HPC), PARAPETS.....f'c=5,000 PSI
    CONCRETE MASONRY (HPC), WEARING SURFACE.....f'c=5,000 PSI
53. CONCRETE FOR 72W" AND 54W" PRESTRESSED GIRDERS SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 8,000 psi. PRESTRESSED CONCRETE GIRDERS SAHLL BE AT LEAST 60 DAYS OLD BEFORE DECK AND DIAPHRAGM CONCRETE CAN BE PLACED TO FORM A CONTUNUOUS STRUCTURE.
54. PRESTRESSING STRANDS SHALL BE 0.6 INCH DIA. WITH AN ULTIMATE TENSILE STRENGTH OF 270,000 psi.
55. WEARING SURFACE OVERLAY SHALL BE TYPE 'E' MODIFIED (HPC).
56. PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP AND INSIDE FACE OF BOTH PARAPETS AND TO THE WEARING SURFACE OVERLAY.
57. CONCRETE QUANTITY IN THE HAUNCHES IS CALCULATED BASED ON A THEORETICAL RESIDUAL CAMBER AT ERECTION.
58. CHAMFER ALL EXPOSED OUTSIDE CORNERS ¾" UNLESS NOTED OTHERWISE.
59. ALL EXPOSED FORMED SURFACES EXCEPT UNDERSIDE OF DECK SLAB SHALL BE PREVIDED WITH A RUBBED FINISH IN ACCORDANCE WITH SECTION 502.3.7.3 OF THE SPECIFICATIONS.
60. ALL EXPOSED CONCRETE SURFACES (EXCEPT THE WEARING SURFACE OVERLAY, UNDERSIDE OF DECK SLAB AND TOP SURFACE OF PIER CAPS AND ABUTMENT SEATS) SHALL BE STAINED AS INDICATED ON SHEET 360.
61. INTERMEDIATE CONCRETE DIAPHRAGMS AT SIGN BASES SHALL BE INSTALLED AS DETAILED ON THE PLANS. STEEL INTERMEDIATE DIAPHRAGMS WILL NOT BE ALLOWED AS A SUBSTITUTION AT THESE LOCATIONS.

DEMOLITION

62. EXISTING STRUCTURE, B-40-285, TO BE REMOVED AS A SEPARATE CONTRACT.
63. REMOVAL OF EXISTING BRIDGE IN DESIGNATED AREAS SHALL INCLUDE, BUT NOT LIMITED TO REMOVING EXISTINT PARAPET, DECK, SIGN BRIDGES, PORTIONS OF THE PIERS, FENDER SYSTEM AND DOCK WALLS.
64. ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1" DEEP SAW CUT.
65. IN THE AREA OF DECK REMOVAL THE CONTRACTOR SHALL LOCATE AND CLEARLY MARK THE EDGES OF ALL GIRDERS ON THE BRIDGE DECK SURFACE PRIOR TO DECK REMOVAL.

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

GENERAL NOTES 2

SHEET 4 OF 396

2872

STATE PROJECT NUMBER

1060-05-75

TOTAL ESTIMATED QUANTITIES: B-40-1312

ITEM CATEGORY	BID ITEM NO.	BID ITEM DESCRIPTION	UNITS	TOTAL QUANTITY	UNIT 001	UNIT 002	UNIT 003	UNIT 004	UNIT 005	UNIT 006
3120	204.0120	REMOVING ASPHALTIC SURFACE MILLING	SY	680				680		
3120	206.1000.0016	EXCAVATION FOR STRUCTURES BRIDGES B-40-1312	LS	1						
3120	206.5000.0001	COFFERDAMS B-40-1312	LS	1						
3120	210.0100	BACKFILL STRUCTURE	CY	180	180					
3120	502.0100	CONCRETE MASONRY BRIDGES	CY	6837	1884	1563	1111	609	1394	276
3120	502.1100	CONCRETE MASONRY SEAL	CY	33				33		
3120	502.3100.0012	EXPANSION DEVICE B-40-1312	LS	1						
3120	502.3200	PROTECTIVE SURFACE TREATMENT	SY	32235	7000	9260	7320	2260	4915	1480
3120	502.5010	MASONRY ANCHORS TYPE L NO. 6 BARS	EACH	66				66		
3120	502.5020	MASONRY ANCHORS TYPE L NO. 8 BARS	EACH	168				168		
3120	502.6102	MASONRY ANCHORS TYPE S 1/2-INCH	EACH	60				60		
3120	502.6105	MASONRY ANCHORS TYPE S 5/8-INCH	EACH	4081	40	3946			95	
3120	502.6500	PROTECTIVE COATING CLEAR	GAL	18	5	2		4	4	3
3120	503.0155	PRESTRESSED GIRDER TYPE I 54W-INCH	LF	1533						1533
3120	503.0172	PRESTRESSED GIRDER TYPE I 72W-INCH	LF	26260	6919	8192	7095		4054	
3120	505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	194410	42430	35885	31010	43660	34625	6800
3120	505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	3225510	747020	872495	703150	245315	533180	124350
3120	506.0105	STRUCTURAL STEEL CARBON	LB	44516				44516		
3120	506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	87	14	32	21	7	9	4
3120	506.3020	WELDED STUD SHEAR CONNECTORS 7/8X7-INCH	EACH	4518				4518		
3120	506.4000	STEEL DIAPHRAGMS B-40-1312	EACH	392	104	112	96		56	24
3120	506.5000.0001	BEARING ASSEMBLIES FIXED B-40-1312	EACH	6				6		
3120	506.6000.0001	BEARING ASSEMBLIES EXPANSION B-40-1312	EACH	355	108	75	63	25	60	24
3120	509.1500	CONCRETE SURFACE REPAIR	SF	320				320		
3120	510.2005	PREBORING CIP CONCRETE PILING	LF	820	100	480				240
3120	511.2110	PILING STEEL DELIVERED AND DRIVEN HP 12-INCH X 53 LB	LF	330				330		
3120	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	30	15					15
3120	604.0400	SLOPE PAVING CONCRETE	SY	230	230					
6160	652.0215	CONDUIT RIGID NONMETALLIC SCHEDULE 40 1 1/4-INCH	LF	10992	2580	3180	2030	630	1792	780
6160	652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	11461	2580	3250	2060	930	1841	800
6160	653.0208	JUNCTION BOXES 8X8X8-INCH	EACH	3				3		
3120	206.6000.S	TEMPORARY SHORING	SF	3710	810	250	910	500	840	400
3120	SPV.0035.2005	EXCAVATION AND HAULING OF RIVER SEDIMENTS	CY	100				100		
3120	SPV.0035.2020	QMP CONCRETE MASONRY SUBSTRUCTURES	CY	6810	1885	1564	1111	609	1365	276
3120	SPV.0035.2025	HIGH PERFORMANCE CONCRETE (HPC) MASONRY SUPERSTRUCTURES	CY	8526	1988	2319	1878	687	1280	374
3120	SPV.0035.2030	CONCRETE MASONRY OVERLAY DECKS (HPC)	CY	1530	341	437	351	108	229	64
3120	SPV.0035.2035	QMP HIGH PERFORMANCE CONCRETE (HPC) MASONRY SUPERSTRUCTURES	CY	11532	2614	3154	2548	838	1825	553
6160	SPV.0060.2005	ANCHOR ASSEMBLIES LIGHT POLES STRUCTURES	EACH	22	4	6	4	1	5	2
6160	SPV.0060.2015	ANCHOR ASSEMBLIES SIGN BRIDGE STRUCTURES	EACH	8		4		2	2	
3120	SPV.0060.2035	CRASH CUSHIONS 30-INCH STRUCTURES	EACH	1		1				
3120	SPV.0060.2060	DYNAMIC PILE LOAD TESTING	EACH	56	17	12	12		11	4
3120	SPV.0060.2065	DYNAMIC PILE RESTRIKE LOAD TESTING	EACH	56	17	12	12		11	4
3120	SPV.0060.2070	PILE SPLICES CIP CONCRETE HIGH CAPACITY	EACH	56	17	12	12		11	4
3120	SPV.0060.2075	FLOOR DRAIN SPECIAL TYPE A	EACH	2	1	1				
3120	SPV.0060.2080	FLOOR DRAIN SPECIAL TYPE B	EACH	45	6	8	14	8	7	2
3120	SPV.0060.2100	UNDERDECK LIGHTING ANCHORAGE	EACH	9	2	2	2		3	
6160	SPV.0060.2200	JUNCTION BOXES 14 X 8 X 6-INCH MANDATORY SUB	EACH	39	6	11	4	9	7	2
3120	SPV.0085.2010	STRUCTURAL STEEL HPS 50W	LB	362870				362870		
3120	SPV.0090.2010	PILING CIP CONCRETE DELIVERED AND DRIVEN HIGH CAPACITY 16-INCH	LF	37765	9150	10350	10170		6520	1575
3120	SPV.0090.2015	PILING CIP CONCRETE DELIVERED AND DRIVEN HIGH CAPACITY 12.75-INCH	LF	2655	1900					755
3120	SPV.0090.2030	DOWNSPOUT 8-INCH	LF	1856	345	513	618	70	265	45
3120	SPV.0090.2032	DOWNSPOUT 10-INCH	LF	200				200		
6160	SPV.0090.2040	PARAPET BRIDGE TYPE LF *	LF	2629	980	393			876	380
6160	SPV.0090.2045	PARAPET BRIDGE TYPE HF *	LF	6558	1000	1590	2033	621	919	395
6160	SPV.0090.2055	BARRIER DOUBLE FACE TYPE LF STRUCTURES *	LF	393		393				
3120	SPV.0090.2200	CAISSON PILES 36-INCH	LF	1155				1155		
3120	SPV.0090.2205	CAISSON PILES 54-INCH	LF	575				575		
3120	SPV.0105.2120	MODULAR EXPANSION DEVICE STRUCTURE B-40-1312	LS	1						
3120	SPV.0105.2316	FIELD PAINTING STUD SHEAR CONNECTORS STRUCTURE B-40-1312	LS	1						
3120	SPV.0105.2400	PAINTING POLYSILOXANE SYSTEM STRUCTURE B-40-1312	LS	1						
2040	SPV.0105.4320	UNDERDECK UTILITY STRUCTURE B-40-1312 UNIT 4 WE ENERGIES-STEAM	LS	1				1		
2050	SPV.0105.4325	UNDERDECK UTILITY STRUCTURE B-40-1312 UNIT 4 WE ENERGIES-ELECTRIC	LS	1				1		
2070	SPV.0105.4330	UNDERDECK UTILITY STRUCTURE B-40-1312 UNIT 4 SBC	LS	1				1		
2080	SPV.0105.4335	UNDERDECK UTILITY STRUCTURE B-40-1312 UNIT 4 McLEOD	LS	1				1		
6120	SPV.0165.2005	STAINING CONCRETE	SF	230015	57005	48551	49685	11720	48034	15020
3120	SPV.0165.2010	LONGITUDINAL GROOVING BRIDGE DECK	SF	247578	55114	70823	56877	17520	37002	10242
3120	SPV.0195.2005	POLYMER MODIFIED ASPHALT	TON	112				112		

NOTE THAT LUMP SUM QUANTITIES APPLY TO MULTIPLE UNITS AND ARE INCLUDED IN THE SUMMARY TABLE ONLY. FOR OTHER PAY ITEMS, SEE THE FOLLOWING SHEETS FOR A UNIT BY UNIT BREAKDOWN.

*FOR INFORMATION ONLY

PARAPET BRIDGE TYPE LF, TYPE HF, & BARRIER DOUBLE FACE INCLUDE THE FOLLOWING:

- HIGH PERFORMANCE CONCRETE (HPC) MASONRY STRUCTURES..... 1297 CY
- BAR STEEL REINFORCEMENT HS COATED BRIDGES..... 272905 LB

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	NZA

QUANTITY SUMMARY

SHEET 5 OF 396

2873

STATE PROJECT NUMBER
1060-05-75

TOTAL ESTIMATED QUANTITIES: B-40-1312 UNIT 001

3120	STRUCTURE NO. :	B-40-1312 UNIT 001															
ITEM CATEGORY	BID ITEM NO.	BID ITEM DESCRIPTION	UNIT	SUPER	ABUT A1-001	PIER P1-001	PIER P2-001	PIER P3-001	PIER P4-001	PIER P5-001	PIER P6-001	PIER P7-001	PIER P8-001	PIER P9-001	PIER P10-001	OTHER	TOTAL
3120	210.0100	BACKFILL STRUCTURE	CY		180												180
3120	502.0100	CONCRETE MASONRY BRIDGES	CY		130.7	140.3	172.1	155.9	152.1	151.1	169.6	147.5	177.9	250.9	235.7		1,884
3120	502.3200	PROTECTIVE SURFACE TREATMENT	SY	7000													7,000
3120	502.6105	MASONRY ANCHORS TYPE S 5/8-INCH	EACH	40													40
3120	502.6500	PROTECTIVE COATING CLEAR	GAL		3										2		5
3120	503.0172	PRESTRESSED GIRDER TYPE I 72W-INCH	LF	6919													6,919
3120	505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB		1105	3080	3410	3900	3900	4095	4680	3900	4240	5060	5060		42,430
3120	505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	485485	5400	22780	26245	23700	23470	23890	28230	23680	25575	30175	28390		747,020
3120	506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH							7	7						14
3120	506.4000	STEEL DIAPHRAGMS B-40-1312 UNIT 001	EACH	104													104
3120	506.6000.0013	BEARING ASSEMBLIES EXPANSION B-40-1312 UNIT 001	EACH		6	3	17	15	14			14	14	13	12		108
3120	510.2005	PREBORING CIP CONCRETE PILING	LF												100		100
3120	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY		15												15
3120	604.0400	SLOPE PAVING CONCRETE	SY		230												230
6160	652.0215	CONDUIT RIGID NONMETALLIC SCHEDULE 40 1 1/4-INCH	LF	2580													2,580
6160	652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	2580													2,580
3120	206.6000.S	TEMPORARY SHORING	SF		560								250				810
3120	SPV.0035.2020	QMP CONCRETE MASONRY SUBSTRUCTURES	CY		131	140	172	156	152	152	170	148	178	251	236		1,885
3120	SPV.0035.2025	HIGH PERFORMANCE CONCRETE (HPC) MASONRY SUPERSTRUCTURES	CY	1988.0													1,988
3120	SPV.0035.2030	CONCRETE MASONRY OVERLAY DECKS (HPC)	CY	340													340
3120	SPV.0035.2035	QMP HIGH PERFORMANCE CONCRETE (HPC) MASONRY SUPERSTRUCTURES	CY	2614													2,614
6160	SPV.0060.2005	ANCHOR ASSEMBLIES LIGHT POLES STRUCTURES	EACH	4													4
3120	SPV.0060.2060	DYNAMIC PILE LOAD TESTING	EACH		2	1	2	1	1	2	2	1	1	2	2		17
3120	SPV.0060.2065	DYNAMIC PILE RESTRIKE LOAD TESTING	EACH		2	1	2	1	1	2	2	1	1	2	2		17
3120	SPV.0060.2070	PILE SPLICES CIP CONCRETE HIGH CAPACITY	EACH		2	1	2	1	1	2	2	1	1	2	2		17
3120	SPV.0060.2075	FLOOR DRAIN SPECIAL TYPE A	EACH	1													1
3120	SPV.0060.2080	FLOOR DRAIN SPECIAL TYPE B	EACH	6													6
3120	SPV.0060.2100	UNDERDECK LIGHTING ANCHORAGE	EACH	2													2
6160	SPV.0060.2200	JUNCTION BOXES 14 X 8 X 6-INCH MANDATORY SUB	EACH	6													6
3120	SPV.0090.2010	PILING CIP CONCRETE DELIVERED AND DRIVEN HIGH CAPACITY 16-INCH	LF			810	925	765	960	1150	1150	960	810	760	860		9,150
3120	SPV.0090.2015	PILING CIP CONCRETE DELIVERED AND DRIVEN HIGH CAPACITY 12.75-INCH	LF		1900												1,900
3120	SPV.0090.2030	DOWNSPOUT 8-INCH	LF				45	45	45			90		120			345
6160	SPV.0090.2040	PARAPET BRIDGE TYPE LF *	LF	980													980
6160	SPV.0090.2045	PARAPET BRIDGE TYPE HF *	LF	1000													1,000
6120	SPV.0165.2005	STAINING CONCRETE	SF	34460	240	1360	2405	2104	2046	2031	1993	1975	2521	3050	2820		57,005
3120	SPV.0165.2010	LONGITUDINAL GROOVING BRIDGE DECK	SF	55113													55,113

*FOR INFORMATION ONLY

PARAPET BRIDGE TYPE LF & TYPE HF INCLUDE THE FOLLOWING:

- HIGH PERFORMANCE CONCRETE (HPC) MASONRY STRUCTURES..... 237 CY
- BAR STEEL REINFORCEMENT HS COATED BRIDGES..... 59010 LB

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. NZA

QUANTITIES (UNIT 001)

SHEET 6 OF 396

2874

STATE PROJECT NUMBER

1060-05-75

TOTAL ESTIMATED QUANTITIES: B-40-1312 UNIT 002

3120	STRUCTURE NO. :	B-40-1312										
ITEM CATEGORY	BID ITEM NO.	BID ITEM DESCRIPTION	UNIT	SUPER	PIER P1-002	PIER P2-002	PIER P3-002	PIER P4-002	PIER P5-002	PIER P6-002	OTHER	TOTAL
3120	502.0100	CONCRETE MASONRY BRIDGES	CY		276.2	268.9	261.5	255.1	241.9	258.5		1,562
3120	502.3200	PROTECTIVE SURFACE TREATMENT	SY	9260								9,260
3120	502.6105	MASONRY ANCHORS TYPE S 5/8-INCH	EACH	3946								3,946
3120	502.6500	PROTECTIVE COATING CLEAR	GAL							2		2
3120	503.0172	PRESTRESSED GIRDER TYPE I 72W-INCH	LF	8192								8,192
3120	505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB		6660	5845	5845	5845	5845	5845		35,885
3120	505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	619725	42905	41975	44790	44115	37560	41425		872,495
3120	506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH			12	10	10				32
3120	506.4000	STEEL DIAPHRAGMS B-40-1312	EACH	112								112
3120	506.6000.0013	BEARING ASSEMBLIES EXPANSION B-40-1312	EACH		22				20	21	12	75
3120	510.2005	PREBORING CIP CONCRETE PILING	LF		120		120	120	120			480
6160	652.0215	CONDUIT RIGID NONMETALLIC SCHEDULE 40 1 1/4-INCH	LF	3180								3,180
6160	652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	3250								3,250
3120	206.6000.S	TEMPORARY SHORING	SF						250			250
3120	SPV.0035.2020	QMP CONCRETE MASONRY SUBSTRUCTURES	CY		277	269	262	255	242	259		1,564
3120	SPV.0035.2025	HIGH PERFORMANCE CONCRETE (HPC) MASONRY SUPERSTRUCTURES	CY	2319								2,319
3120	SPV.0035.2030	CONCRETE MASONRY OVERLAY DECKS (HPC)	CY	437								437
3120	SPV.0035.2035	QMP HIGH PERFORMANCE CONCRETE (HPC) MASONRY SUPERSTRUCTURES	CY	3153								3,153
6160	SPV.0060.2005	ANCHOR ASSEMBLIES LIGHT POLES STRUCTURES	EACH	6								6
6160	SPV.0060.2015	ANCHOR ASSEMBLIES SIGN BRIDGE STRUCTURES	EACH	4								4
3120	SPV.0060.2035	CRASH CUSHIONS 30-INCH STRUCTURES	EACH	1								1
3120	SPV.0060.2060	DYNAMIC PILE LOAD TESTING	EACH		2	2	2	2	2	2		12
3120	SPV.0060.2065	DYNAMIC PILE RESTRIKE LOAD TESTING	EACH		2	2	2	2	2	2		12
3120	SPV.0060.2070	PILE SPLICES CIP CONCRETE HIGH CAPACITY	EACH		2	2	2	2	2	2		12
3120	SPV.0060.2075	FLOOR DRAIN SPECIAL TYPE A	EACH	3		1				4		$0.25
3120	SPV.0060.2080	FLOOR DRAIN SPECIAL TYPE B	EACH	8								8
3120	SPV.0060.2100	UNDERDECK LIGHTING ANCHORAGE	EACH	2								2
6160	SPV.0060.2200	JUNCTION BOXES 14 X 8 X 6-INCH MANDATORY SUB	EACH	11								11
3120	SPV.0090.2010	PILING CIP CONCRETE DELIVERED AND DRIVEN HIGH CAPACITY 16-INCH	LF		1540	1360	1900	1900	1990	1660		10,350
3120	SPV.0090.2030	DOWNSPOUT 8-INCH	LF	80	153		110		125	45		513
6160	SPV.0090.2040	PARAPET BRIDGE TYPE LF *	LF	393								393
6160	SPV.0090.2045	PARAPET BRIDGE TYPE HF*	LF	1590								1,590
6160	SPV.0090.2055	BARRIER DOUBLE FACE TYPE LF STRUCTURES *	LF	393								393
6120	SPV.0165.2005	STAINING CONCRETE	SF	28010	3742	3693	3505	3368	3095	3138		48,551
3120	SPV.0165.2010	LONGITUDINAL GROOVING BRIDGE DECK	SF	70823								70,823

*FOR INFORMATION ONLY

PARAPET BRIDGE TYPE LF, TYPE HF, & BARRIER DOUBLE FACE TYPE LF INCLUDE THE FOLLOWING:

- HIGH PERFORMANCE CONCRETE (HPC) MASONRY STRUCTURES..... 397.4 CY
- BAR STEEL REINFORCEMENT HS COATED BRIDGES..... 86075 LB

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. NZA

QUANTITIES (UNIT 002)

SHEET 7 OF 396

2875

STATE PROJECT NUMBER
1060-05-75

TOTAL ESTIMATED QUANTITIES: B-40-1312 UNIT 003

3120	STRUCTURE NO. :	B-40-1312											
ITEM CATEGORY	BID ITEM NO.	BID ITEM DESCRIPTION	UNIT	SUPER	PIER P1-003	PIER P2-003	PIER P3-003	PIER P4-003	PIER P5-003	PIER P6-003	PIER P7-003	OTHER	TOTAL
3120	502.0100	CONCRETE MASONRY BRIDGES	CY		153.2	157.4	172.5	157.4	157.4	163.9	148.8		1,111
3120	502.3200	PROTECTIVE SURFACE TREATMENT	SY	7320									7,320
3120	503.0172	PRESTRESSED GIRDER TYPE I 72W-INCH	LF	7095									7,095
3120	505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB		3900	3900	4650	3900	3900	6860	3900		31,010
3120	505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	530945	24085	25150	25440	25360	25360	23405	23405		703,150
3120	506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH				7	7	7				21
3120	506.4000	STEEL DIAPHRAGMS B-40-1312	EACH	96									96
3120	506.6000.0013	BEARING ASSEMBLIES EXPANSION B-40-1312	EACH		14	14				14	14	7	63
6160	652.0215	CONDUIT RIGID NONMETALLIC SCHEDULE 40 1 1/4-INCH	LF	2030									2,030
6160	652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	2060									2,060
3120	206.6000.S	TEMPORARY SHORING	SF			230				680			910
3120	SPV.0035.2020	QMP CONCRETE MASONRY SUBSTRUCTURES	CY		153	157	173	157	157	164	149		1,111
3120	SPV.0035.2025	HIGH PERFORMANCE CONCRETE (HPC) MASONRY SUPERSTRUCTURES	CY	1877									1,877
3120	SPV.0035.2030	CONCRETE MASONRY OVERLAY DECKS (HPC)	CY	351									351
3120	SPV.0035.2035	QMP HIGH PERFORMANCE CONCRETE (HPC) MASONRY SUPERSTRUCTURES	CY	2548									2,548
6160	SPV.0060.2005	ANCHOR ASSEMBLIES LIGHT POLES STRUCTURES	EACH	4									4
3120	SPV.0060.2060	DYNAMIC PILE LOAD TESTING	EACH		2	2	2	2	2	1	1		12
3120	SPV.0060.2065	DYNAMIC PILE RESTRIKE LOAD TESTING	EACH		2	2	2	2	2	1	1		12
3120	SPV.0060.2070	PILE SPLICES CIP CONCRETE HIGH CAPACITY	EACH		2	2	2	2	2	1	1		12
3120	SPV.0060.2080	FLOOR DRAIN SPECIAL TYPE B	EACH	14									14
3120	SPV.0060.2100	UNDERDECK LIGHTING ANCHORAGE	EACH	2									2
6160	SPV.0060.2200	JUNCTION BOXES 14 X 8 X 6-INCH MANDATORY SUB	EACH	4									4
3120	SPV.0090.2010	PILING CIP CONCRETE DELIVERED AND DRIVEN HIGH CAPACITY 16-INCH	LF		1570	1570	1570	1110	1630	1360	1360		10,170
3120	SPV.0090.2030	DOWNSPOUT 8-INCH	LF	228		100	100		100		90		618
6160	SPV.0090.2045	PARAPET BRIDGE TYPE HF *	LF	2033									2,033
6120	SPV.0165.2005	STAINING CONCRETE	SF	35648	1980	2070	2069	2069	2069	1890	1890		49,685
3120	SPV.0165.2010	LONGITUDINAL GROOVING BRIDGE DECK	SF	56877									56,877

*FOR INFORMATION ONLY

PARAPET BRIDGE TYPE HF INCLUDES THE FOLLOWING:

- HIGH PERFORMANCE CONCRETE (HPC) MASONRY STRUCTURES..... 270.4 CY
- BAR STEEL REINFORCEMENT HS COATED BRIDGES..... 25560 LB

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. NZA

QUANTITIES (UNIT 003)

SHEET 8 OF 396

2876

STATE PROJECT NUMBER
1060-05-75

TOTAL ESTIMATED QUANTITIES: B-40-1312 UNIT 004

ITEM CATEGORY	BID ITEM NO.	BID ITEM DESCRIPTION	UNIT	SUPER	PIER P1-004	PIER P2-004	PIER P3-004	PIER P4-004	EXST. PIER	OTHER	TOTAL
3120	204.0120	REMOVING ASPHALTIC SURFACE MILLING	SY	680							680
3120	502.0100	CONCRETE MASONRY BRIDGES	CY		190	170	91	158			609
3120	502.1100	CONCRETE MASONRY SEAL	CY			32.9					33
3120	502.3200	PROTECTIVE SURFACE TREATMENT	SY	2260							2,260
3120	502.5010	MASONRY ANCHORS TYPE L NO. 6 BARS	EACH			66					66
3120	502.5020	MASONRY ANCHORS TYPE L NO. 8 BARS	EACH			80	88				168
3120	502.6102	MASONRY ANCHORS TYPE S 1/2-INCH	EACH						60		60
3120	502.6500	PROTECTIVE COATING CLEAR	GAL		2			2			4
3120	505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB		23555	4090	1570	14445			43,660
3120	505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	166735	22750	16695	17050	22085			245,315
3120	506.0105	STRUCTURAL STEEL CARBON	LB	44516							44,516
3120	506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH						7		7
3120	506.3020	WELDED STUD SHEAR CONNECTORS 7/8X7-INCH	EACH	4518							4,518
3120	506.5000.0001	BEARING ASSEMBLIES FIXED B-40-1312	EACH				6				6
3120	506.6000.0001	BEARING ASSEMBLIES EXPANSION B-40-1312	EACH		13	6		6			25
3120	509.1500	CONCRETE SURFACE REPAIR	SF						320		320
3120	511.2110	PILING STEEL DELIVERED AND DRIVEN HP 12-INCH X 53 LB	LF			330					330
6160	652.0215	CONDUIT RIGID NONMETALLIC SCHEDULE 40 1 1/4-INCH	LF	630							630
6160	652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	930							930
6160	653.0208	JUNCTION BOXES 8X8X8-INCH	EACH	3							3
3120	206.6000.S	TEMPORARY SHORING	SF					500			500
3120	SPV.0035.2005	EXCAVATION AND HAULING OF RIVER SEDIMENTS	CY			100					100
3120	SPV.0035.2020	QMP CONCRETE MASONRY SUBSTRUCTURES	CY		190.0	170.0	91.0	158.0			609
3120	SPV.0035.2025	HIGH PERFORMANCE CONCRETE (HPC) MASONRY SUPERSTRUCTURES	CY	687.0							687
3120	SPV.0035.2030	CONCRETE MASONRY OVERLAY DECKS (HPC)	CY	108							108
3120	SPV.0035.2035	QMP HIGH PERFORMANCE CONCRETE (HPC) MASONRY SUPERSTRUCTURES	CY	838.0							838
6160	SPV.0060.2005	ANCHOR ASSEMBLIES LIGHT POLES STRUCTURES	EACH	1							1
6160	SPV.0060.2015	ANCHOR ASSEMBLIES SIGN BRIDGE STRUCTURES	EACH	2							2
3120	SPV.0060.2080	FLOOR DRAIN SPECIAL TYPE B	EACH	8							8
6160	SPV.0060.2200	JUNCTION BOXES 14 X 8 X 6-INCH MANDATORY SUB	EACH	9							9
3120	SPV.0085.2010	STRUCTURAL STEEL HPS 50W	LB	362870							362,870
3120	SPV.0090.2030	DOWNSPOUT 8-INCH	LF		70						70
3120	SPV.0090.2032	DOWNSPOUT 10-INCH	LF	140					60		200
6160	SPV.0090.2045	PARAPET BRIDGE TYPE HF *	LF	621							621
3120	SPV.0090.2200	CAISSON PILES 36-INCH	LF					1155			1,155
3120	SPV.0090.2205	CAISSON PILES 54-INCH	LF		575						575
2040	SPV.0105.4320	UNDERDECK UTILITY STRUCTURE B-40-1312 UNIT 4 WE ENERGIES-STEAM	LS								1
2050	SPV.0105.4325	UNDERDECK UTILITY STRUCTURE B-40-1312 UNIT 4 WE ENERGIES-ELECTRIC	LS								1
2070	SPV.0105.4330	UNDERDECK UTILITY STRUCTURE B-40-1312 UNIT 4 SBC	LS								1
2080	SPV.0105.4335	UNDERDECK UTILITY STRUCTURE B-40-1312 UNIT 4 McLEOD	LS								1
6120	SPV.0165.2005	STAINING CONCRETE	SF	3920	2220	1870	1990	1720			11,720
3120	SPV.0165.2010	LONGITUDINAL GROOVING BRIDGE DECK	SF	17520							17,520
3120	SPV.0195.2005	POLYMER MODIFIED ASPHALT	TON	112							112

*FOR INFORMATION ONLY

PARAPET BRIDGE TYPE HF INCLUDES THE FOLLOWING:

- HIGH PERFORMANCE CONCRETE (HPC) MASONRY STRUCTURES..... 82.6 CY
- BAR STEEL REINFORCEMENT HS COATED BRIDGES..... 23550 LB

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	NZA

QUANTITIES (UNIT 004)

SHEET 9 OF 396

2877

STATE PROJECT NUMBER
1060-05-75

TOTAL ESTIMATED QUANTITIES: B-40-1312 UNIT 005

3120	STRUCTURE NO. :	B-40-1312													
ITEM CATEGORY	BID ITEM NO.	BID ITEM DESCRIPTION	UNIT	SUPER	PIER P1A-005	PIER P1B-005	PIER P2-005	PIER P3-005	PIER P4-005	PIER P5-005	PIER P6-005	PIER P7-005	PIER P8-005	PIER P9-005	OTHER	TOTAL
3120	502.0100	CONCRETE MASONRY BRIDGES	CY		134.8	131.7	155.8	152.5	134.9	114.6	130.8	144.5	141.0	153.3		1,394
3120	502.3200	PROTECTIVE SURFACE TREATMENT	SY	4915												4,915
3120	502.6105	MASONRY ANCHORS TYPE S 5/8-INCH	EACH	95												95
3120	502.6500	PROTECTIVE COATING CLEAR	GAL		1	1								2		4
3120	503.0172	PRESTRESSED GIRDER TYPE I 72W-INCH	LF	4054												4,054
3120	505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB		3080	3080	3900	3240	3790	3520	3520	3520	3455	3520		34,625
3120	505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	325580	23730	23730	24650	20120	20940	16430	18750	20295	18435	20520		533,180
3120	506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH						5	4						9
3120	506.4000	STEEL DIAPHRAGMS B-40-1312	EACH	56												56
3120	506.6000.0013	BEARING ASSEMBLIES EXPANSION B-40-1312	EACH		3	3	11	10			8	8	8	9		60
6160	652.0215	CONDUIT RIGID NONMETALLIC SCHEDULE 40 1 1/4-INCH	LF	1792												1,792
6160	652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	1841												1,841
3120	206.6000.S	TEMPORARY SHORING	SF				560					280				840
3120	SPV.0035.2020	QMP CONCRETE MASONRY SUBSTRUCTURES	CY		131	128	155	153	133	114	129	142	139	141		1,364
3120	SPV.0035.2025	HIGH PERFORMANCE CONCRETE (HPC) MASONRY SUPERSTRUCTURES	CY	1280.0												1,280
3120	SPV.0035.2030	CONCRETE MASONRY OVERLAY DECKS (HPC)	CY	228												228
3120	SPV.0035.2035	QMP HIGH PERFORMANCE CONCRETE (HPC) MASONRY SUPERSTRUCTURES	CY	1825												1,825
6160	SPV.0060.2005	ANCHOR ASSEMBLIES LIGHT POLES STRUCTURES	EACH	5												5
6160	SPV.0060.2015	ANCHOR ASSEMBLIES SIGN BRIDGE STRUCTURES	EACH	2												2
3120	SPV.0060.2060	DYNAMIC PILE LOAD TESTING	EACH		1	1	2	1	1	1	1	1	1	1		11
3120	SPV.0060.2065	DYNAMIC PILE RESTRIKE LOAD TESTING	EACH		1	1	2	1	1	1	1	1	1	1		11
3120	SPV.0060.2070	PILE SPLICES CIP CONCRETE HIGH CAPACITY	EACH		1	1	2	1	1	1	1	1	1	1		11
3120	SPV.0060.2080	FLOOR DRAIN SPECIAL TYPE B	EACH	7												7
3120	SPV.0060.2100	UNDERDECK LIGHTING ANCHORAGE	EACH	3												3
6160	SPV.0060.2200	JUNCTION BOXES 14 X 8 X 6-INCH MANDATORY SUB	EACH	7												7
3120	SPV.0090.2010	PILING CIP CONCRETE DELIVERED AND DRIVEN HIGH CAPACITY 16-INCH	LF		695	695	860	725	685	670	600	530	530	530		6,520
3120	SPV.0090.2030	DOWNSPOUT 8-INCH	LF			50	50		50		55		60			265
6160	SPV.0090.2040	PARAPET BRIDGE TYPE LF *	LF	876												876
6160	SPV.0090.2045	PARAPET BRIDGE TYPE HF *	LF	919												919
6120	SPV.0165.2005	STAINING CONCRETE	SF	31332	1438	1388	2111	1882	1550	1284	1570	1808	1748	1923		48,034
3120	SPV.0165.2010	LONGITUDINAL GROOVING BRIDGE DECK	SF	37002												37,002

*FOR INFORMATION ONLY

PARAPET BRIDGE TYPE LF & TYPE HF INCLUDE THE FOLLOWING:

- HIGH PERFORMANCE CONCRETE (HPC) MASONRY STRUCTURES..... 217.7 CY
- BAR STEEL REINFORCEMENT HS COATED BRIDGES..... 56425 LB

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. NZA

QUANTITIES (UNIT 005)

SHEET 10 OF 396

2878

STATE PROJECT NUMBER
1060-05-75

TOTAL ESTIMATED QUANTITIES: B-40-1312 UNIT 006

3120	STRUCTURE NO. :	B-40-1312								
ITEM CATEGORY	BID ITEM NO.	BID ITEM DESCRIPTION	UNIT	SUPER	PIER P1-006	PIER P2-006	PIER P3-006	ABUT A1-006	OTHER	TOTAL
3120	502.0100	CONCRETE MASONRY BRIDGES	CY		87.7	78.9	76.2	33.0		276
3120	502.3200	PROTECTIVE SURFACE TREATMENT	SY	1480						1,480
3120	502.6500	PROTECTIVE COATING CLEAR	GAL					3		3
3120	503.0155	PRESTRESSED GIRDER TYPE I 54W-INCH	LF	1533						1,533
3120	505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB		2230	2230	2230	110		6,800
3120	505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	91580	10595	10285	9700	2190		124,350
3120	506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH			4				4
3120	506.4000	STEEL DIAPHRAGMS B-40-1312	EACH	24						24
3120	506.6000.0013	BEARING ASSEMBLIES EXPANSION B-40-1312	EACH		8		8	4	4	24
3120	510.2005	PREBORING CIP CONCRETE PILING	LF		80	80	80			240
3120	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	15						15
6160	652.0215	CONDUIT RIGID NONMETALLIC SCHEDULE 40 1 1/4-INCH	LF	780						780
6160	652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	800						800
3120	206.6000.S	TEMPORARY SHORING	SF				400			400
3120	SPV.0035.2020	QMP CONCRETE MASONRY SUBSTRUCTURES	CY		88	79	76	33		276
3120	SPV.0035.2025	HIGH PERFORMANCE CONCRETE (HPC) MASONRY SUPERSTRUCTURES	CY	373						373
3120	SPV.0035.2030	CONCRETE MASONRY OVERLAY DECKS (HPC)	CY	63						63
3120	SPV.0035.2035	QMP HIGH PERFORMANCE CONCRETE (HPC) MASONRY SUPERSTRUCTURES	CY	553						553
6160	SPV.0060.2005	ANCHOR ASSEMBLIES LIGHT POLES STRUCTURES	EACH	2						2
3120	SPV.0060.2060	DYNAMIC PILE LOAD TESTING	EACH		1	1	1	1		4
3120	SPV.0060.2065	DYNAMIC PILE RESTRIKE LOAD TESTING	EACH		1	1	1	1		4
3120	SPV.0060.2070	PILE SPLICES CIP CONCRETE HIGH CAPACITY	EACH		1	1	1	1		4
3120	SPV.0060.2080	FLOOR DRAIN SPECIAL TYPE B	EACH	2						2
6160	SPV.0060.2200	JUNCTION BOXES 14 X 8 X 6-INCH MANDATORY SUB	EACH	2						2
3120	SPV.0090.2010	PILING CIP CONCRETE DELIVERED AND DRIVEN HIGH CAPACITY 16-INCH	LF		525	525	525			1,575
3120	SPV.0090.2015	PILING CIP CONCRETE DELIVERED AND DRIVEN HIGH CAPACITY 12.75-INCH	LF					755		755
3120	SPV.0090.2030	DOWNSPOUT 8-INCH	LF			45				45
6160	SPV.0090.2040	PARAPET BRIDGE TYPE LF *	LF	380						380
6160	SPV.0090.2045	PARAPET BRIDGE TYPE HF*	LF	395						395
6120	SPV.0165.2005	STAINING CONCRETE	SF	11990	1040	980	930	80		15,020
3120	SPV.0165.2010	LONGITUDINAL GROOVING BRIDGE DECK	SF	10242						10,242

*FOR INFORMATION ONLY

PARAPET BRIDGE TYPE LF & TYPE HF INCLUDE THE FOLLOWING:

- HIGH PERFORMANCE CONCRETE (HPC) MASONRY STRUCTURES..... 92.3 CY
- BAR STEEL REINFORCEMENT HS COATED BRIDGES..... 22285 LB

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. NZA

QUANTITIES (UNIT 006)

SHEET 11 OF 396

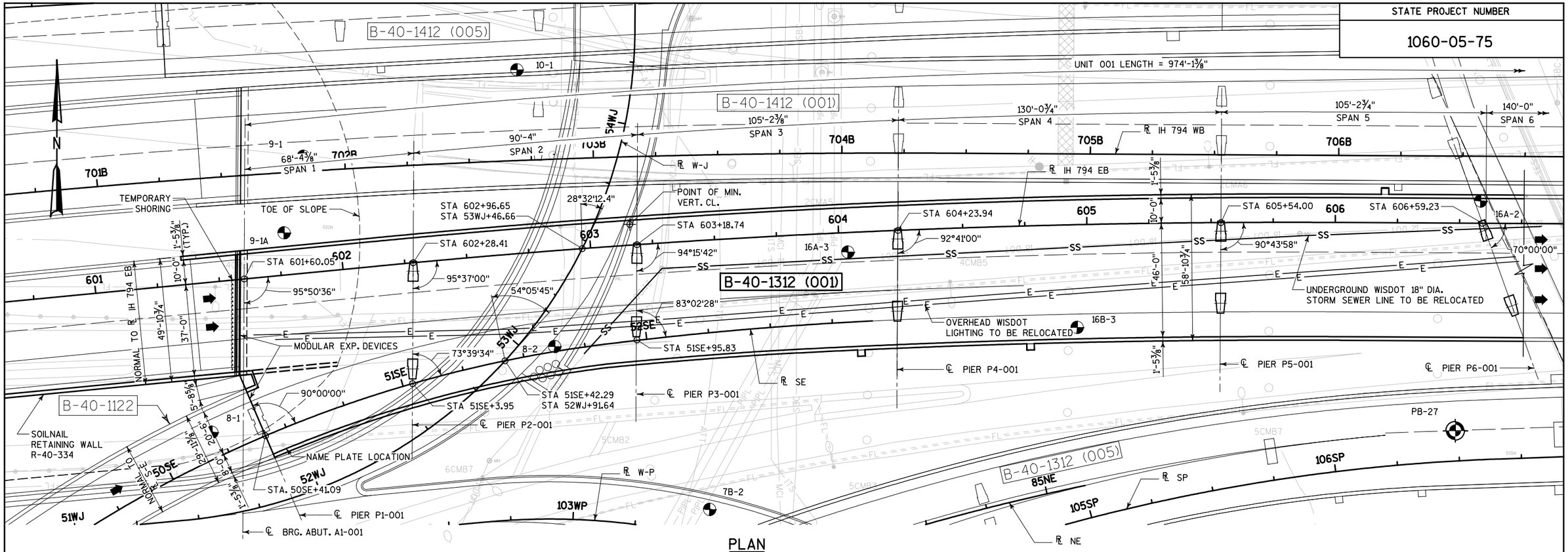
2879

STATE PROJECT NUMBER

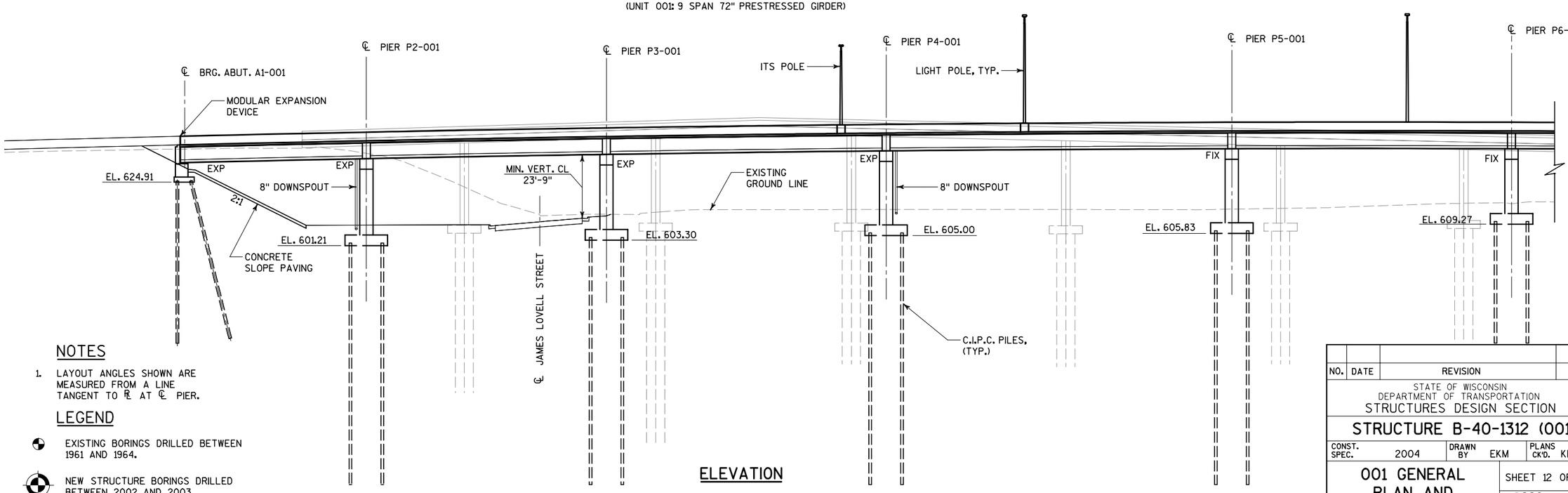
1060-05-75

PLAN

(UNIT 001: 9 SPAN 72" PRESTRESSED GIRDER)



ELEVATION



NOTES

1. LAYOUT ANGLES SHOWN ARE MEASURED FROM A LINE TANGENT TO ℞ AT ℄ PIER.

LEGEND

- EXISTING BORINGS DRILLED BETWEEN 1961 AND 1964.
- NEW STRUCTURE BORINGS DRILLED BETWEEN 2002 AND 2003.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

001 GENERAL PLAN AND ELEVATION 1

SHEET 12 OF 396

2880

8

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STATE PROJECT NUMBER

1060-05-75

B-40-1412 (005)

B-40-1412 (001)

UNIT 001 LENGTH = 974'-1⅛"

℄ PIER P6-001 — 105'-2¾" SPAN 5 — ℄ PIER P7-001 — 140'-0" SPAN 6 — ℄ PIER P8-001 — 84'-11⅛" SPAN 7 — ℄ PIER P9-001 — 140'-0" SPAN 8 — ℄ PIER P10-001 — 110'-0" SPAN 9

706B 707B 708B 709B 710B 711B

606 607 608 609 610 611

STA 606+59.23 — STA 607+99.23 — STA 608+84.16 — STA 610+24.16 — STA 611+34.16

16A-2 17-2 16A-1 31A-1

PB-28

UNDERGROUND WISDOT 12" DIA. STORM SEWER LINE TO BE RELOCATED

UNDERGROUND WISDOT LIGHTING TO BE RELOCATED

POINT OF MIN. VERT. CL.

℄ IH 794 WB

℄ IH 794 EB

70°00'00" — 70°00'00" — 90°00'00" — 90°00'00" — 90°00'00"

B-40-1312 (001)

UNDERGROUND WISDOT 18" DIA.STORM SEWER LINE TO BE RELOCATED

TEMPORARY SHORING

UNDERGROUND ATC, 8" DIA. 138KV LINES

UNDERGROUND CITY OF MILWAUKEE BUREAU OF ELECTRIC SERVICE LINE TO BE RELOCATED

MODULAR EXP. DEVICE

1'-5⅜" 10'-0" 46'-0" 58'-10¾" 1'-5⅜" 1'-5⅜" 10'-0" 50'-4¼" 37'-5½"

B-40-1312 (005)

PB-27 16B-2 16B-1

106SP 107SP 108SP 109SP 110SP 111SP

℄ SP

HINMAN ST. TO BE RETIRED

PLAN

(UNIT 001: 9 SPAN 72" PRESTRESSED GIRDER)

670 660 650 640 630 620 610 600 590 580 570 560 550 540 530 520 510

℄ PIER P6-001 — ℄ PIER P7-001 — ℄ PIER P8-001 — LIGHT POLE, TYP. — ℄ PIER P9-001 — ℄ PIER P10-001

MODULAR EXPANSION DEVICE

FIX — EXP — EXP — EXP — EXP

MIN. VERT. CL. 19'-5"

8" DOWNSPOUT — 8" DOWNSPOUT

EXISTING GROUND LINE

MIN. VERT. CL. 34'-8"

EL. 609.27 — EL. 607.02 — EL. 592.04 — EL. 587.14 — EL. 588.30

℄ 6TH STREET — ℄ 5TH STREET

C.I.P.C. PILES, (TYP.)

ELEVATION

NOTES

1. LAYOUT ANGLES SHOWN ARE MEASURED FROM A LINE TANGENT TO ℄ AT ℄ PIER.

LEGEND

EXISTING BORINGS DRILLED BETWEEN 1961 AND 1964.

NEW STRUCTURE BORINGS DRILLED BETWEEN 2002 AND 2003.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

001 GENERAL PLAN AND ELEVATION 2

SHEET 13 OF 396

2881

8

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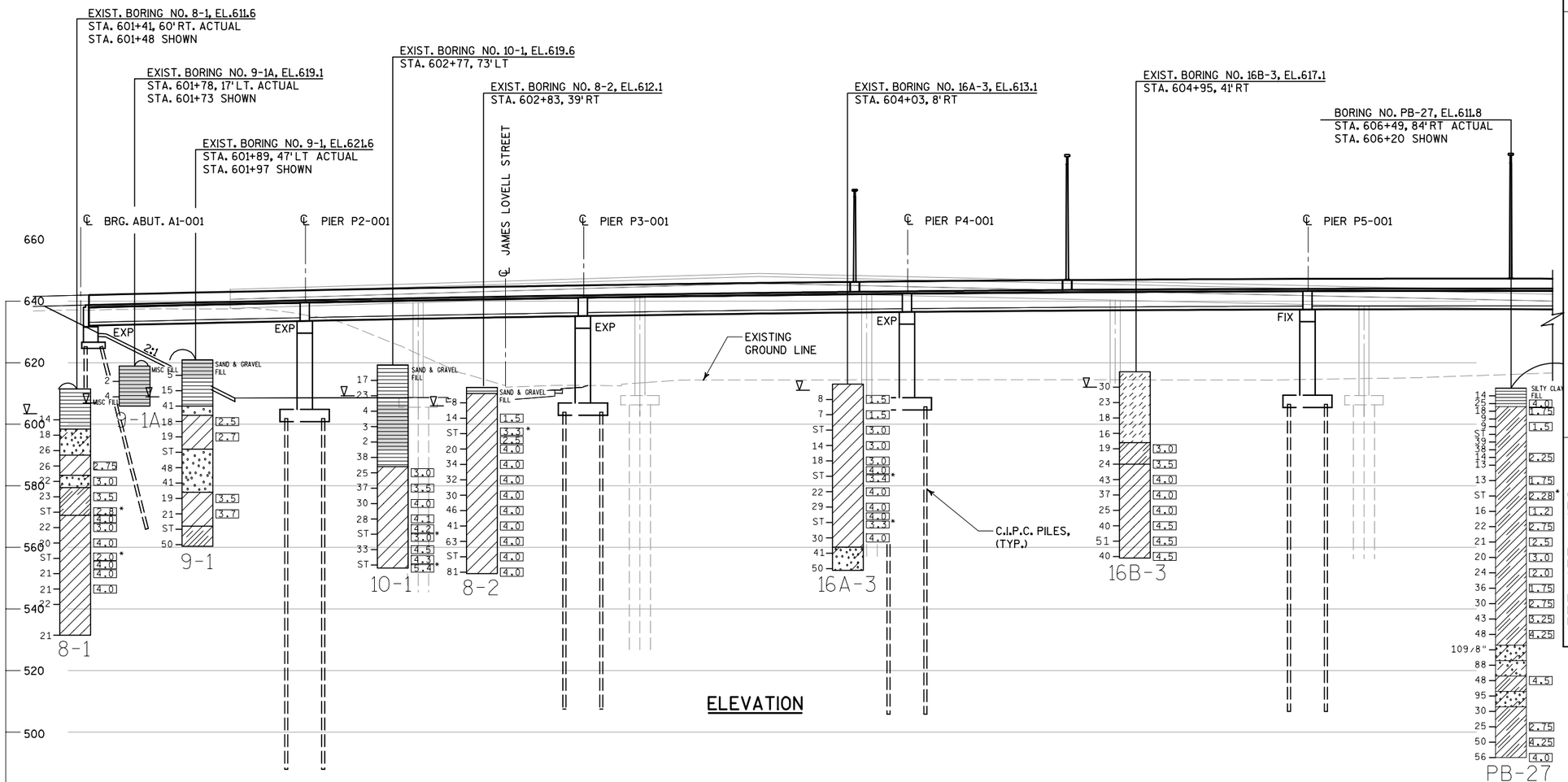
LEGEND

* LOCATION OF LABORATORY UNCONFINED COMPRESSIVE STRENGTH TEST.

NOTES

1. SEE "GENERAL PLAN AND ELEVATION" SHEET FOR BOREHOLE LOCATIONS.
2. SUBSURFACE INFORMATION PRESENTED HEREIN IS AN ABBREVIATED VERSION OF THE INFORMATION PRESENTED IN THE GEOTECHNICAL ENGINEERING REPORTS. REVIEW THE APPROPRIATE GEOTECHNICAL ENGINEERING REPORTS AND SOIL BORING LOGS FOR ADDITIONAL SUBSURFACE INFORMATION.
3. WATER LEVELS INDICATED MAY NOT BE REPRESENTATIVE OF STATIC WATER LEVELS.
4. ADDITIONAL SUBSURFACE AND GROUNDWATER INFORMATION IS AVAILABLE FROM DEPARTMENT.



ELEVATION

STATE PROJECT NUMBER

1060-05-75

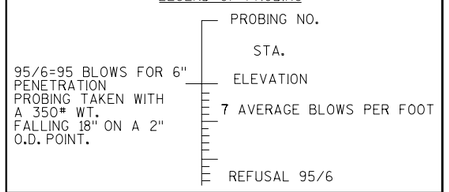
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

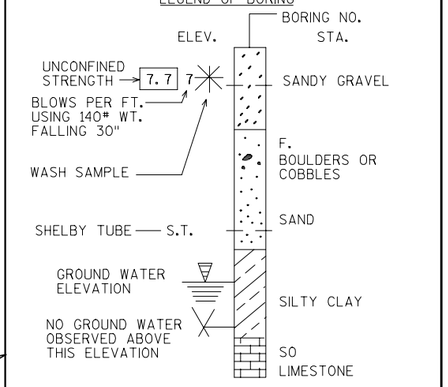
MATERIAL SYMBOLS

TOPSOIL/ FILL, SILT, SANDSTONE, SAND, PEAT, LIMESTONE, GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	RWN	PLANS CK'D.	KES

SUBSURFACE EXPLORATION UNIT 001

SHEET 14 OF 396

2882

8

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LEGEND

* LOCATION OF LABORATORY UNCONFINED COMPRESSIVE STRENGTH TEST.

NOTES

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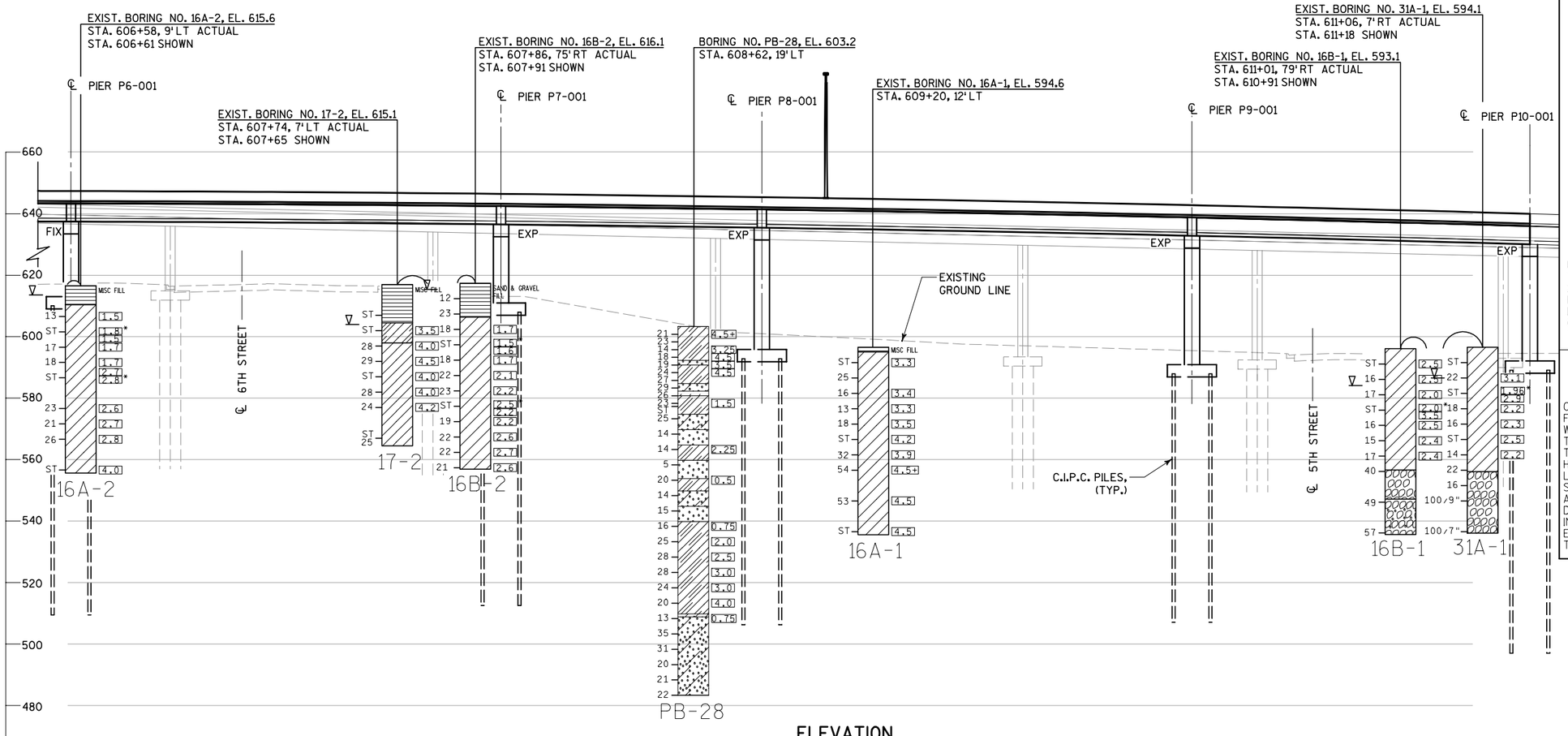


ELEVATION

STATE PROJECT NUMBER

1060-05-75

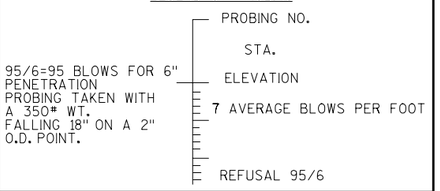
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

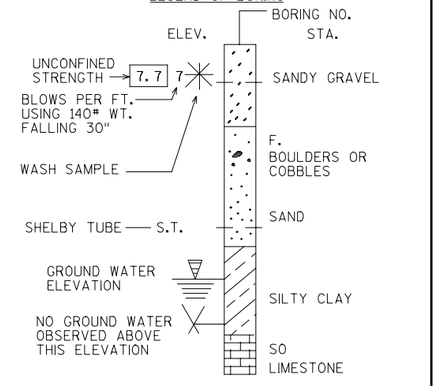
MATERIAL SYMBOLS

TOPSOIL/ FILL · SILT · SANDSTONE
SAND · PEAT · LIMESTONE
GRAVEL · CLAY · IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	RWN	PLANS CK'D.	KES

SUBSURFACE EXPLORATION UNIT 001

SHEET 15 OF 396

2883

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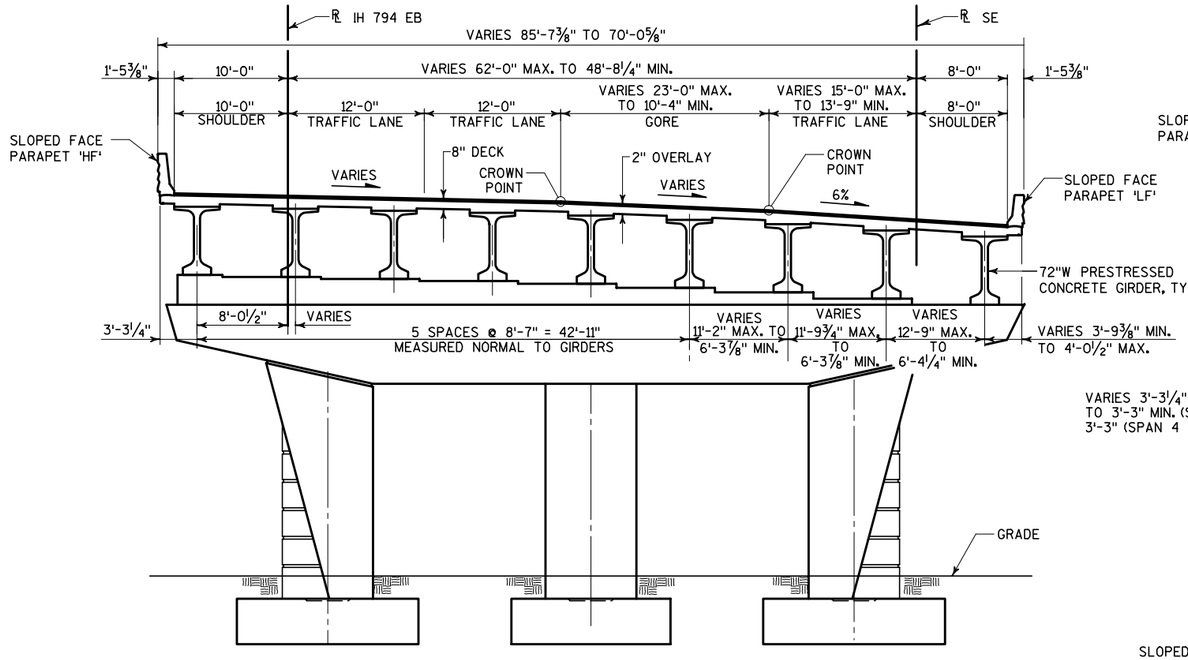
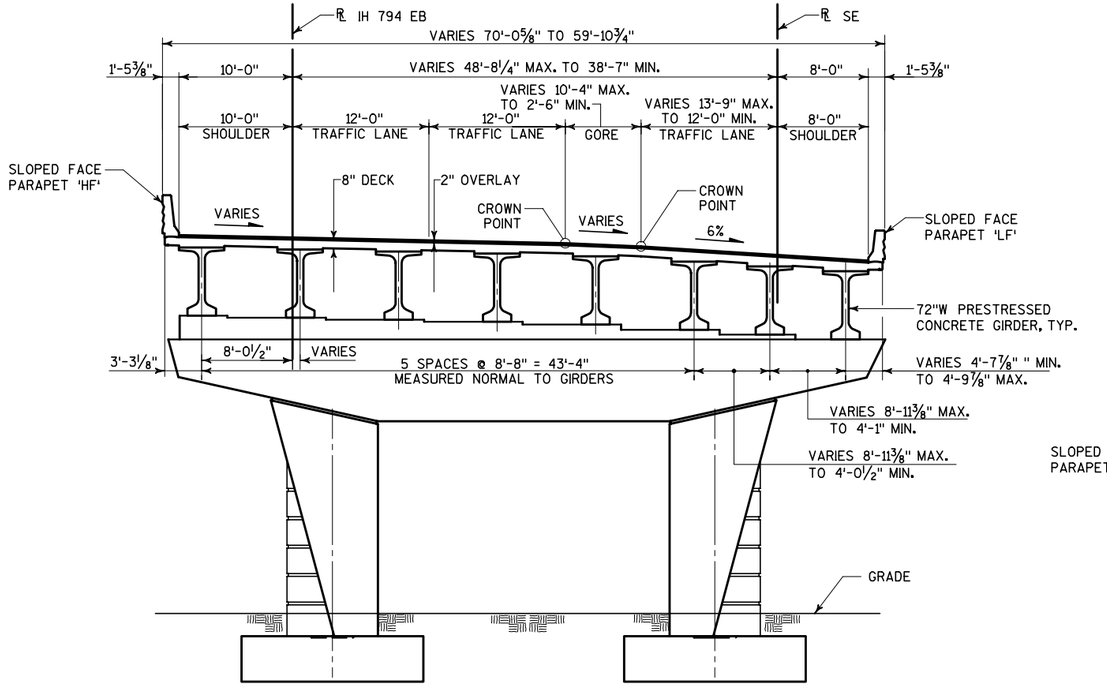
STATE PROJECT NUMBER

1060-05-75



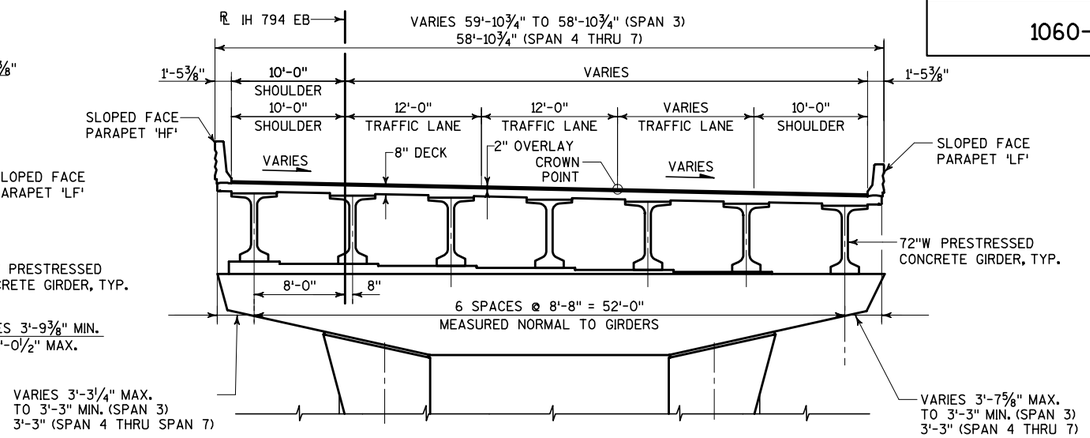
TYPICAL SECTION IN SPAN

LOOKING EAST, TYP.
(SPAN 1)



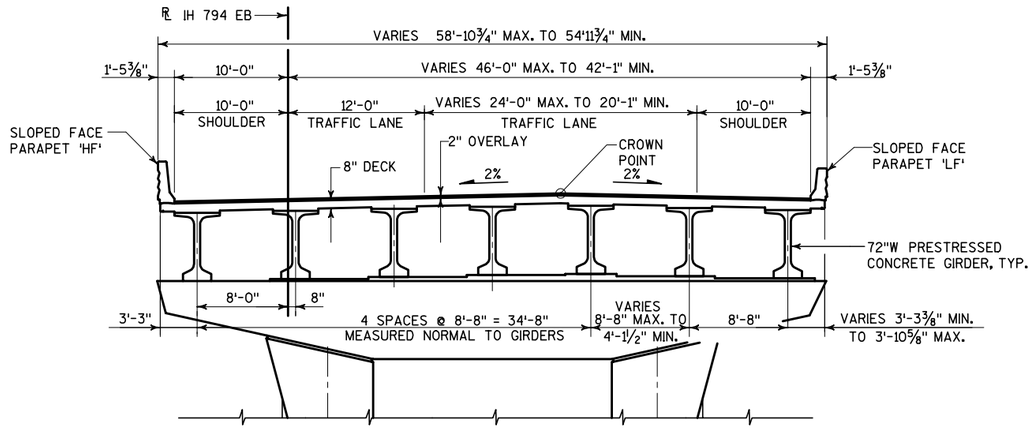
TYPICAL SECTION IN SPAN

(SPAN 2)



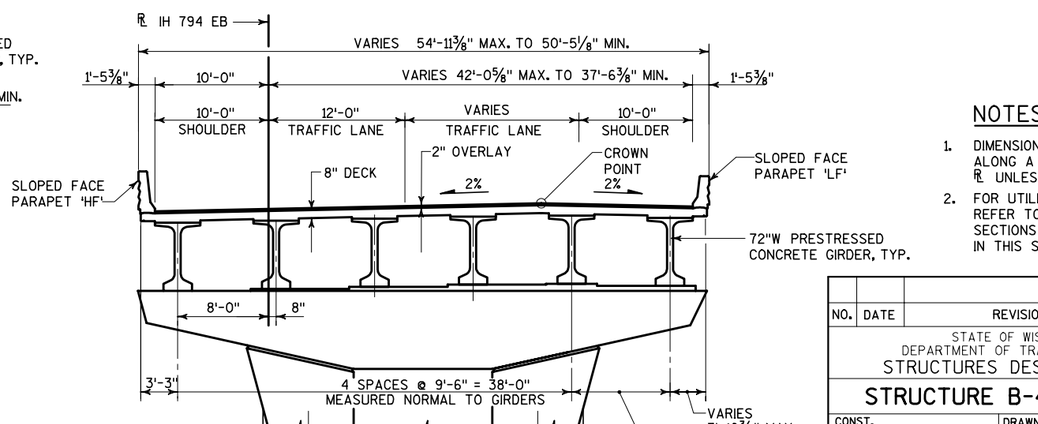
TYPICAL SECTION IN SPAN

(SPANS 3 THRU 7)



TYPICAL SECTION IN SPAN

(SPAN 8)



TYPICAL SECTION IN SPAN

(SPAN 9)

NOTES

1. DIMENSIONS ARE MEASURED ALONG A LINE RADIAL TO THE ℄ UNLESS OTHERWISE NOTED.
2. FOR UTILITY INFORMATION, REFER TO DECK CROSS SECTIONS CONTAINED LATER IN THIS SET.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

TYPICAL SECTION

SHEET 16 OF 396

2884

8

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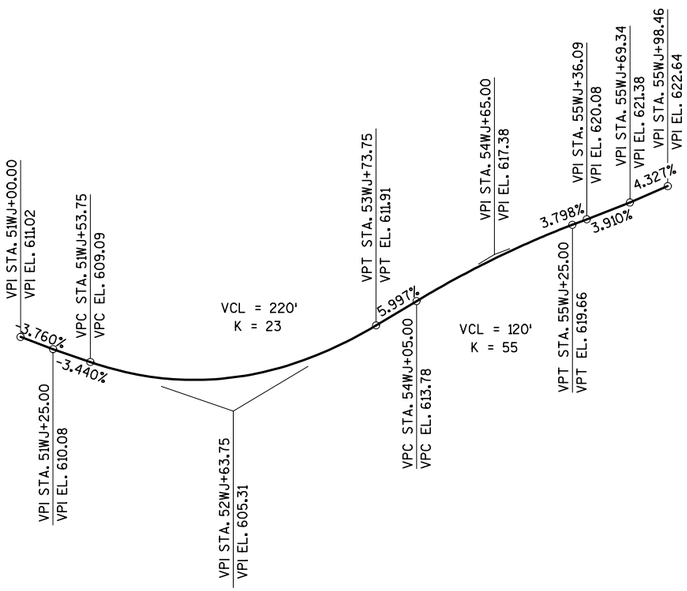
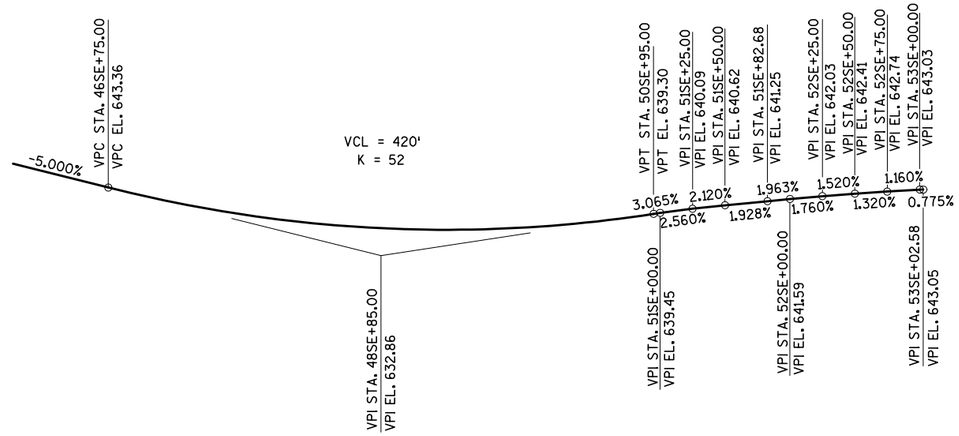
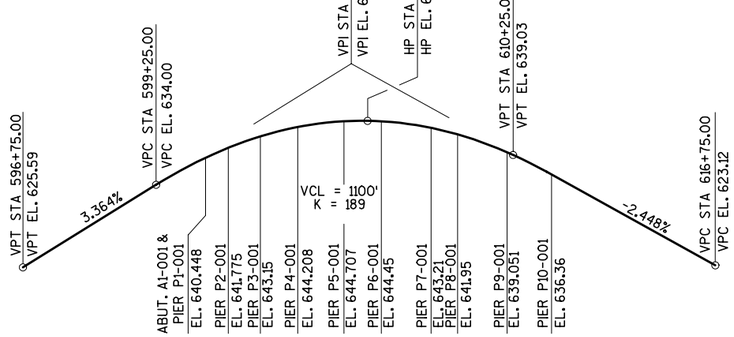
STATE PROJECT NUMBER
1060-05-75



PROFILE GRADE LINE - ℄ WJ



PROFILE GRADE LINE - ℄ SE



PROFILE GRADE LINE - ℄ IH 794 EB

SUBSTRUCTURE DATA

UNIT	STATION	SKEW
A1-001	STA 601+60.06	5° 50' 36" LHF
P1-001	STA 601+60.06	0°
P2-001	STA 602+28.41	5° 37' 00" LHF
P3-001	STA 603+18.74	4° 15' 42" LHF
P4-001	STA 604+23.94	2° 41' 01" LHF
P5-001	STA 605+54.00	0° 43' 58" LHF
P6-001	STA 606+59.24	20° 00' 00" RHF
P7-001	STA 607+99.23	20° 00' 00" RHF
P8-001	STA 608+84.16	0°
P9-001	STA 610+24.16	0°
P10-001	STA 611+34.16	0°

HORIZONTAL CURVE DATA

℄ SE

PI = STA. 49SE+05.55
Δ = 75°42'04"
D = 11°15'00"
T = 395.77
L = 672.90
R = 509.30
E = 135.70
PCC = STA 45SE+09.78
PCC = STA 51SE+82.68

PI = STA 52SE+42.66
Δ = 4°47'45"
D = 4°0'00"
T = 59.98
L = 119.89
R = 1432.39
E = 1.26
PCC = STA 51SE+82.68
PT = STA 53SE+02.58

℄ IH 794 EB

PT = STA. 597+41.18
PC = STA 602+13.30
L = 472.12

PI = STA 604+08.24
Δ = 5°50'36"
D = 1°30'00"
T = 194.94
L = 389.55
R = 3819.72
E = 4.97
PC = STA 602+13.30
PT = STA 606+02.85

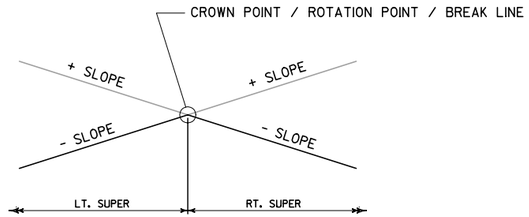
PT = STA 606+02.85
PC = STA 629+06.46
L = 2303.61

℄ WJ

PI = STA 53WJ+25.25
Δ = 84°19'09"
D = 28°38'52"
T = 181.09
L = 294.33
R = 200.00
PC = 51WJ+44.16
PT = 54WJ+38.49
E = 69.80

SUPERELEVATION TABLE

		SUPERELEVATION	
	STATION	LT. SUPER (%)	RT. SUPER (%)
℄ IH 794 EB	599+50.00	2.00	-2.00
	602+00.00	2.00	-2.00
	602+75.00	3.20	-3.20
	605+25.00	3.20	-3.20
	606+00.00	2.00	-2.00
	607+25.00	0.00	-2.00
	608+50.00	-2.00	-2.00
	632+55.00	-2.00	-2.00
℄ SE	49SE+75.00	6.00	-6.00
	50SE+42.03	4.43	-4.43
	50SE+50.00	4.80	-4.80
	50SE+75.00	5.76	-5.76
	51SE+00.00	6.00	-6.00
	51SE+82.68	6.00	-6.00
	53SE+02.58	3.20	-3.20



SUPERELEVATION DETAIL

SEE DECK SECTIONS FOR LOC'N OF CROWN POINT

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

ALIGNMENT

SHEET 17 OF 396
2885

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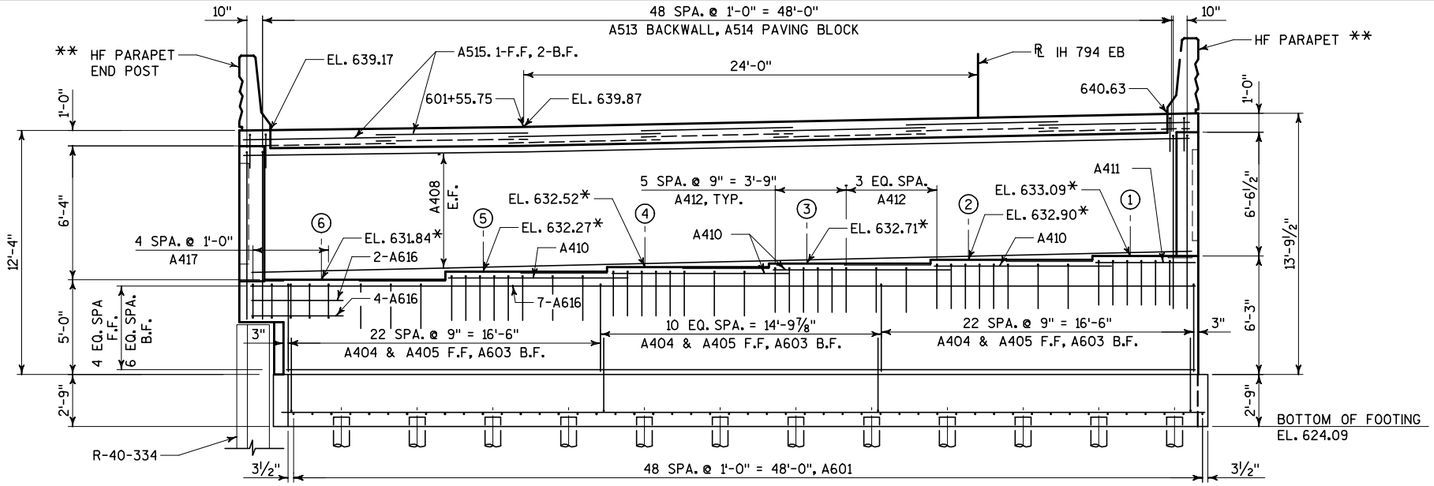
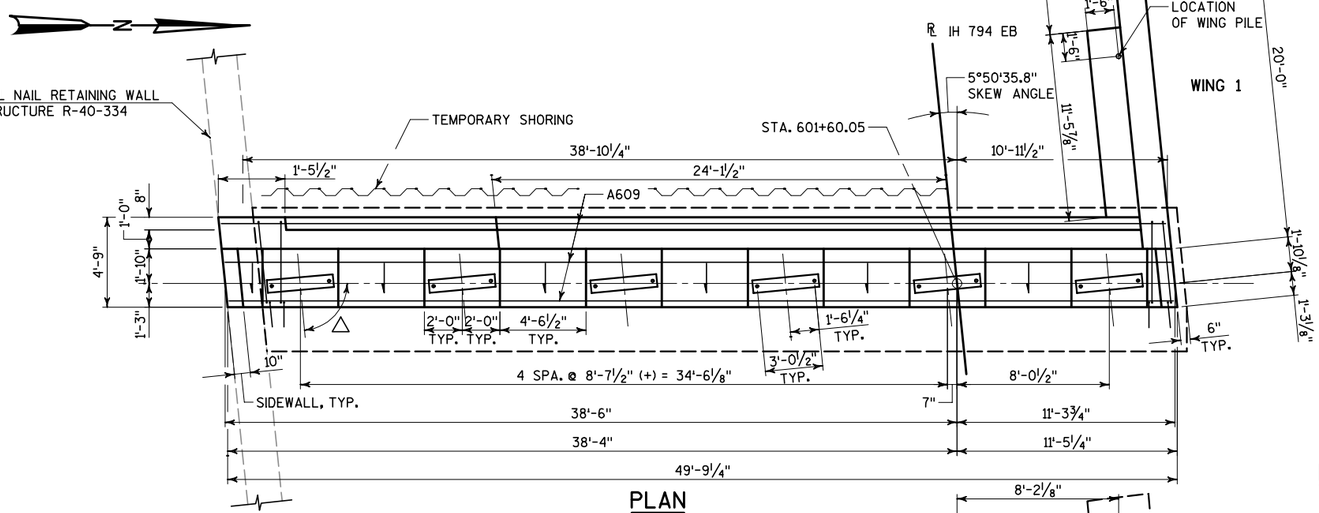
STATE PROJECT NUMBER

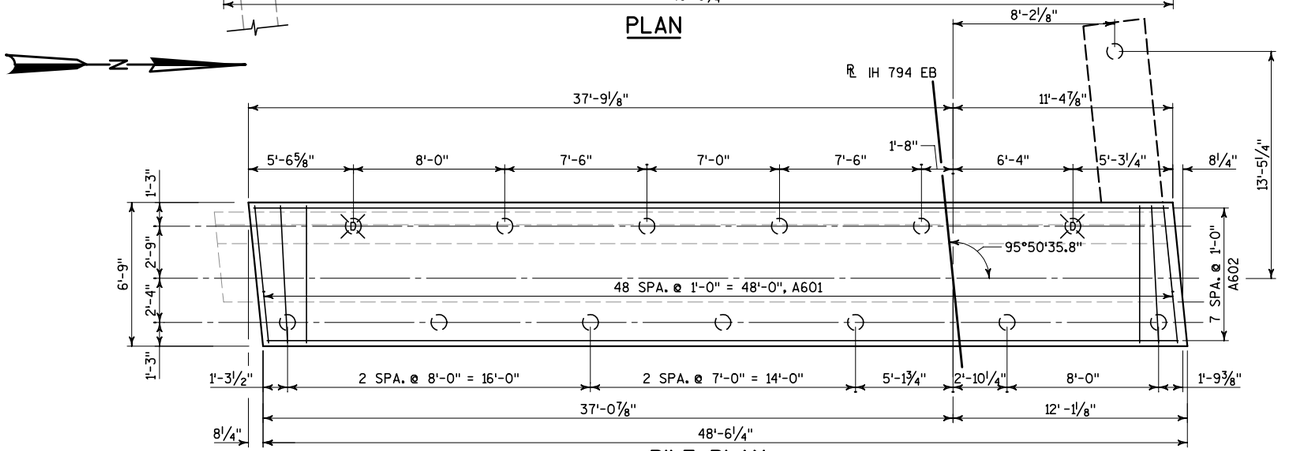
1060-05-75



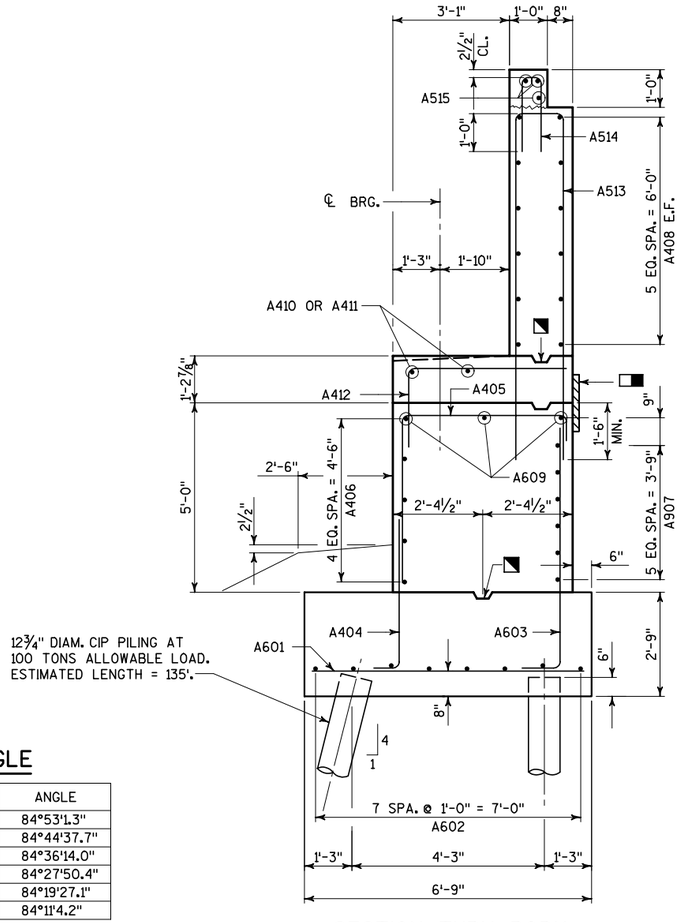
ELEVATION
(LOOKING WEST)



PLAN



PILE PLAN



SECTION THRU BODY

BEARING ANGLE

	LOCATION	ANGLE
△	GIRDER 6	84°53'1.3"
	GIRDER 5	84°44'37.7"
	GIRDER 4	84°36'14.0"
	GIRDER 3	84°27'50.4"
	GIRDER 2	84°19'27.1"
	GIRDER 1	84°11'4.2"

LEGEND

- SLOPE 1" IN DIRECTION OF ARROW BETWEEN BEARING SEATS
- 18" RUBBERIZED MEMBRANE WATERPROOFING, SEAL ALL HORIZ. AND VERT. JOINTS ON BACKFACE.
- KEYED CONST. JOINT FORMED BY BEVELED 2" X 6".
- * ELEVATIONS ARE GIVEN AT THE TOP OF CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ BRG.
- ** SEE SUPERSTRUCTURE DETAILS FOR DIMENSIONS.

FOR CONCRETE STAINING DETAILS SEE SHEET 388.

- DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

ABUTMENT A1-001

SHEET 18 OF 396

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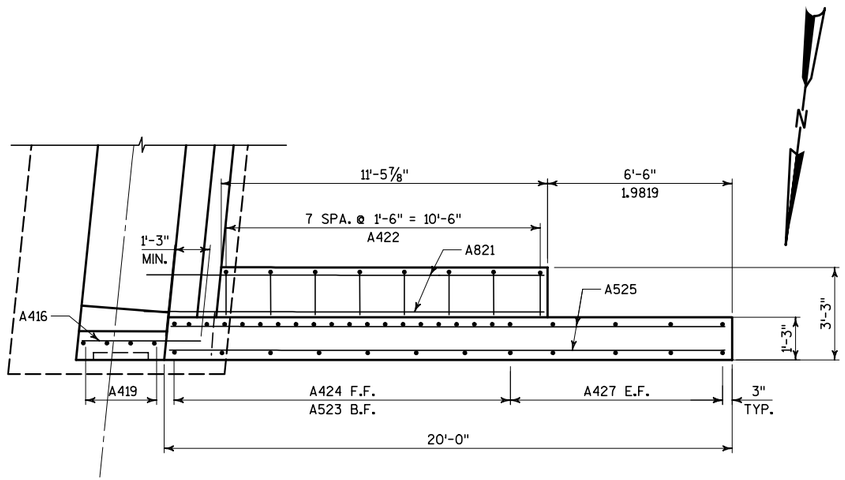
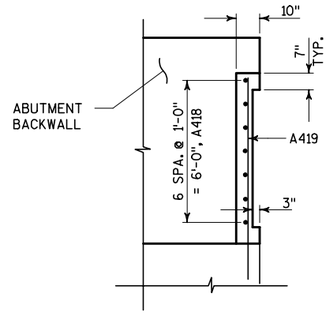
STATE PROJECT NUMBER

1060-05-75



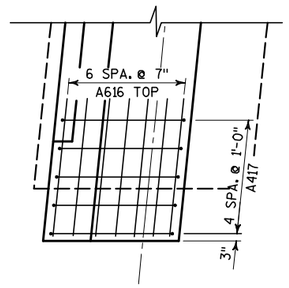
PLAN

(NORTH END OF ABUT.)

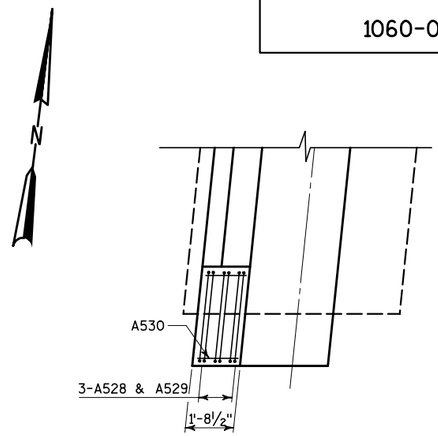


SECTION

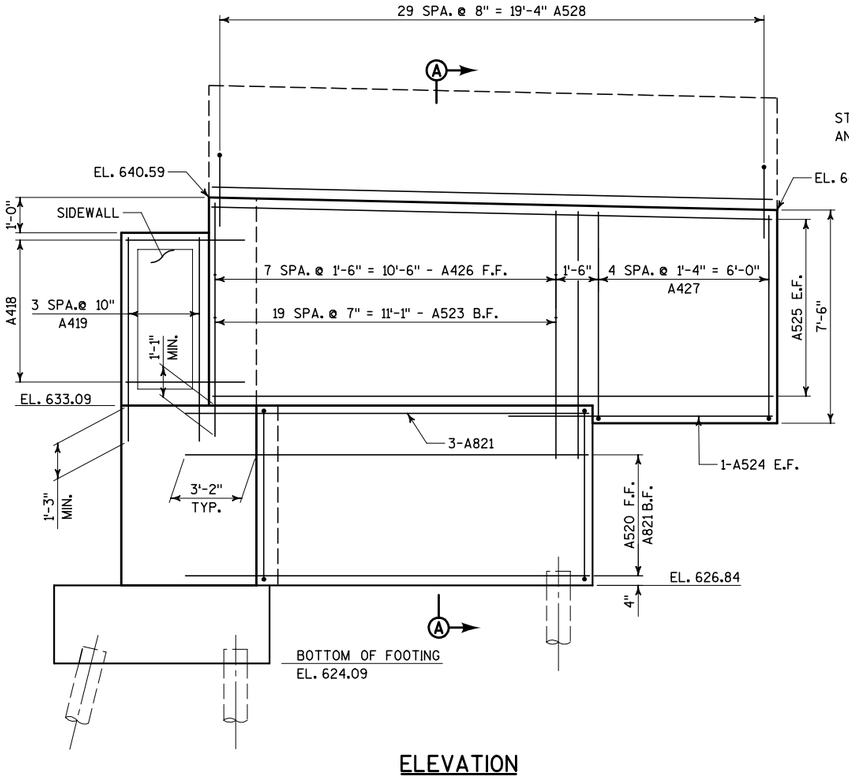
(THRU SIDEWALL)



ABUTMENT REINFORCING

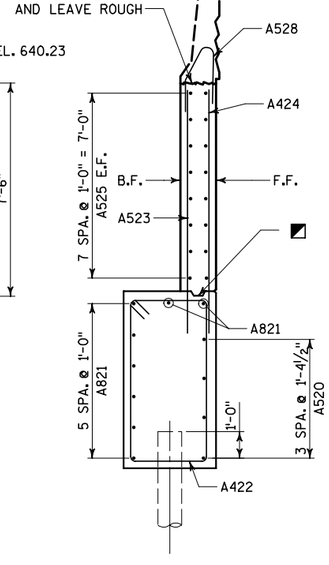


PARAPET END POST REINFORCING

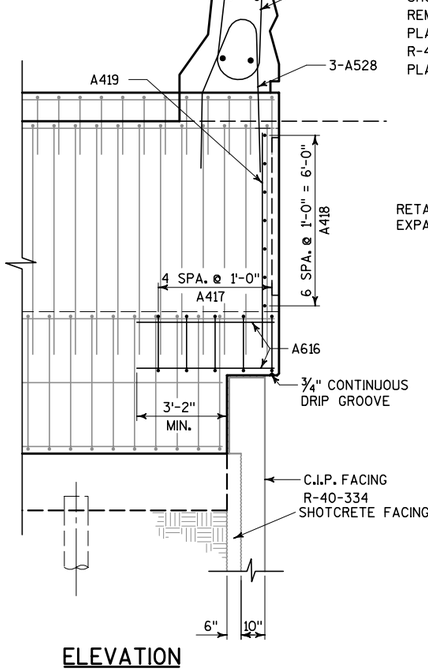


ELEVATION

(LOOKING SOUTH)



SECTION A-A

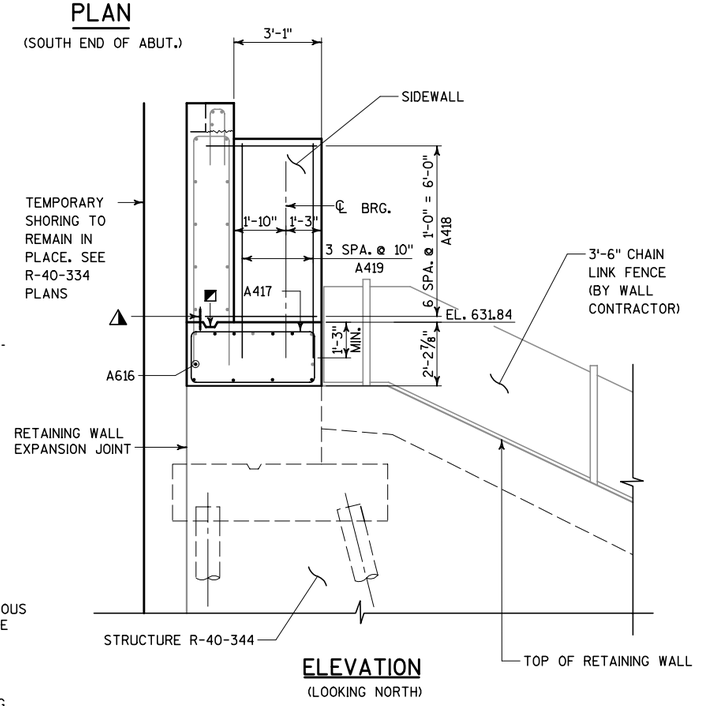


ELEVATION

(LOOKING EAST @ BACK WALL)

PLAN

(SOUTH END OF ABUT.)



ELEVATION

(LOOKING NORTH)

** SEE SUPERSTRUCTURE DETAILS FOR PARAPET DIMENSIONS.

◩ KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2" X 6".

◭ EMBEDDED PVC WATERSTOP. INCLUDED IN THE ITEM CONCRETE MASONRY BRIDGES.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

ABUT. A1-001
DETAILS

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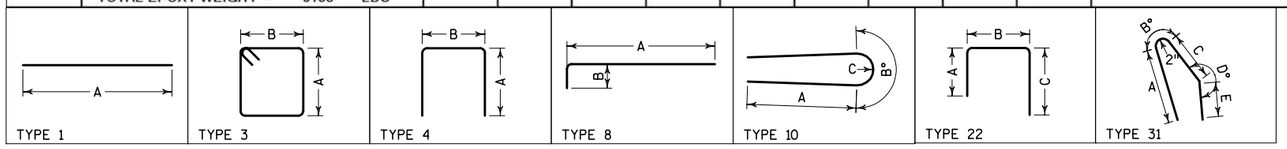
STATE PROJECT NUMBER

1060-05-75

BAR INFORMATION						BAR DIMENSIONS										
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J	LOCATION	REMARKS
A601		49	6'-4"	466	1	6'-4"									ABUT. - FOOTING	
A602		8	48'-2"	579	1	48'-2"									ABUT. - FOOTING	
A603	E	55	7'-7"	626	8	6'-9"	1'-0"								ABUT. - FOOTING - DOWELS	
A404	E	55	4'-3"	156	8	3'-8"	8"								ABUT. - FOOTING - DOWELS	
A405	E	55	9'-10"	361	22	4'-8"	4'-4"	1'-0"							ABUT. - BODY - VERT.	
A406	E	4	48'-4"	129	1	48'-4"									ABUT. - BODY - HORIZ.	
A907	E	6	48'-4"	986	1	48'-4"									ABUT. - BODY - HORIZ.	
A408	E	12	49'-5"	396	1	49'-5"									ABUT. - BACK WALL - HORIZ.	
A609	E	3	49'-5"	223	1	49'-9"									ABUT. - BODY - HORIZ.	
A410	E	8	9'-6"	51	1	9'-6"									ABUT. - STEPS - HORIZ.	
A411	E	2	5'-1"	7	1	5'-1"									ABUT. - STEP - HORIZ.	
A412	E	42	6'-9"	189	8	2'-6"	4'-4"								ABUT. - STEPS - VERT.	
A513	E	49	18'-10"	963	4	8'-11"	1'-3"								ABUT. - BACK WALL - VERT.	
A514	E	49	4'-5"	226	4	2'-0"	8"								ABUT. - PAV. BLOCK - VERT.	
A515	E	21	8'-0"	175	1	8'-0"									ABUT. - PAV. BLOCK - HORIZ.	
A616	E	13	4'-10"	94	1	4'-10"									ABUT. - BODY END - HORIZ.	
A417	E	5	12'-4"	41	3	1'-8"	4'-4"								ABUT. - BODY END - STIRRUP	
A418	E	14	4'-3"	40	1	4'-3"									ABUT. - SIDE WALL - HORIZ.	
A419	E	8	7'-6"	40	1	7'-6"									ABUT. - SIDE WALL - VERT.	
8520	E	4	12'-10"	54	1	12'-10"									WING 1 - HORIZ.	
A821	E	8	14'-6"	310	1	14'-6"									WING 1 - HORIZ.	
A422	E	8	17'-8"	94	3	5'-9"	2'-8"								WING 1 - STIRRUP	
A523	E	20	9'-0"	188	1	9'-0"									WING 1 - HORIZ.	
A424	E	8	9'-0"	48	1	9'-0"									WING 1 - HORIZ.	
A525	E	16	19'-7"	327	1	19'-7"									WING 1 - HORIZ.	
A526	E	2	8'-0"	17	1	8'-0"									WING 1 - HORIZ.	
A427	E	8	7'-1"	38	1	7'-1"									WING 1 - VERT.	
A528	E	33	4'-10"	166	31	2'-2"	155°	1'-1"	215°	1-2"					WING 1 PARAPET & PARAPET END POST	
A529	E	33	6'-10"	235	10	3'-0"	184°	3"							WING 1 PARAPET & PARAPET END POST	
A530	E	8	1'-3"	10	1										PARAPET END POST	
	TOTAL BLACK WEIGHT =			1045	LBS											
	TOTAL EPOXY WEIGHT =			6195	LBS											



TYPE 1 TYPE 3 TYPE 4 TYPE 8 TYPE 10 TYPE 22 TYPE 31

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

ABUT. A1-001
REINF. SCHEDULE

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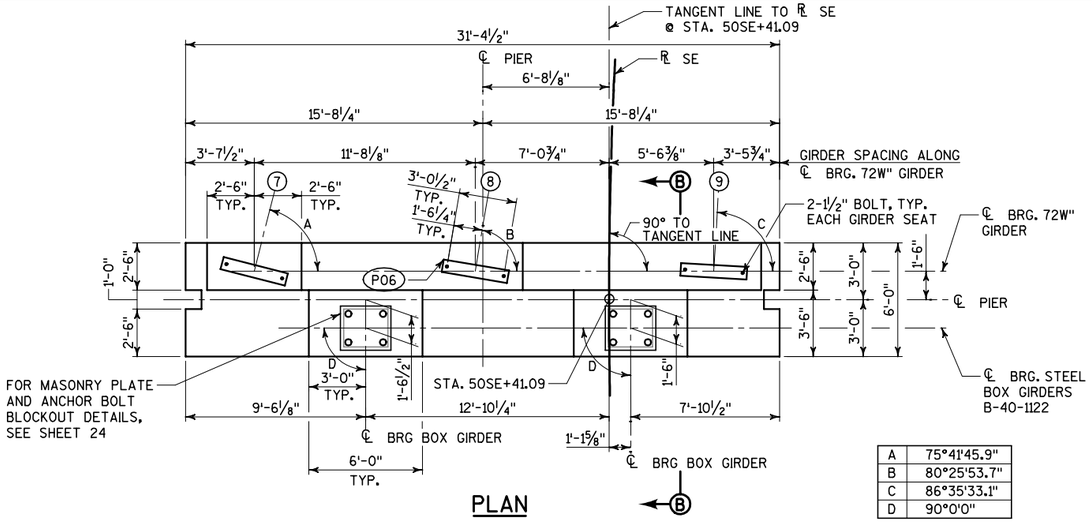
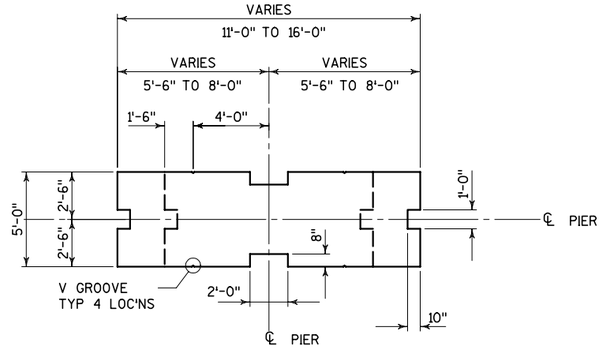
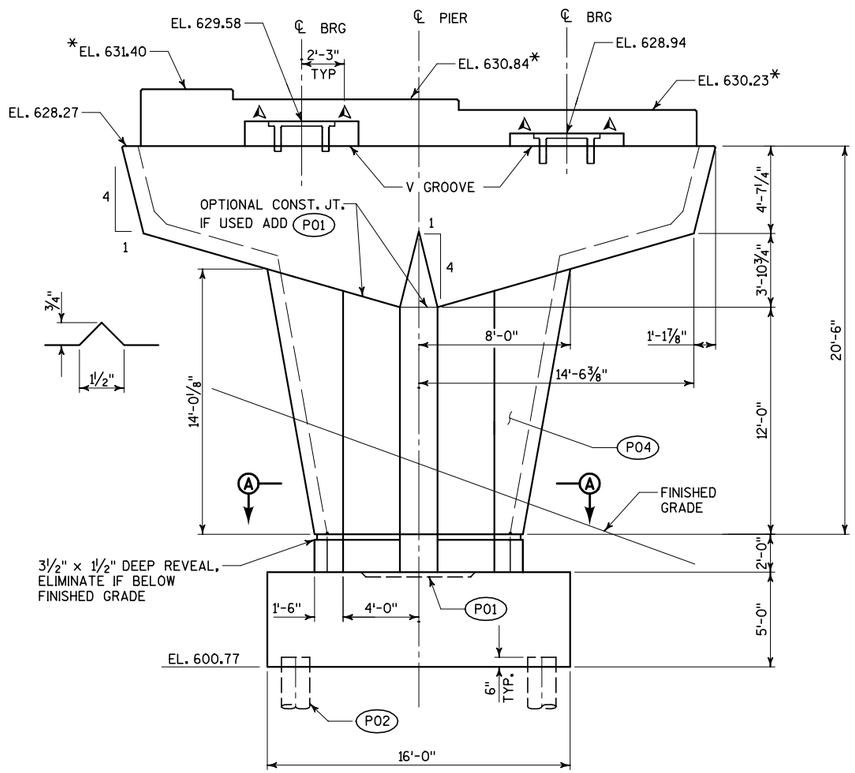


PLAN

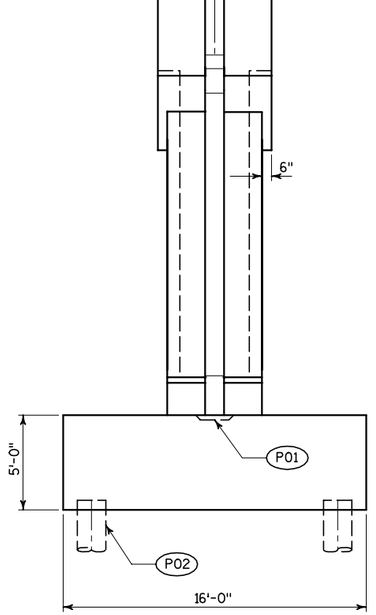
A	75°41'45.9"
B	80°25'53.7"
C	86°35'33.1"
D	90°0'0"



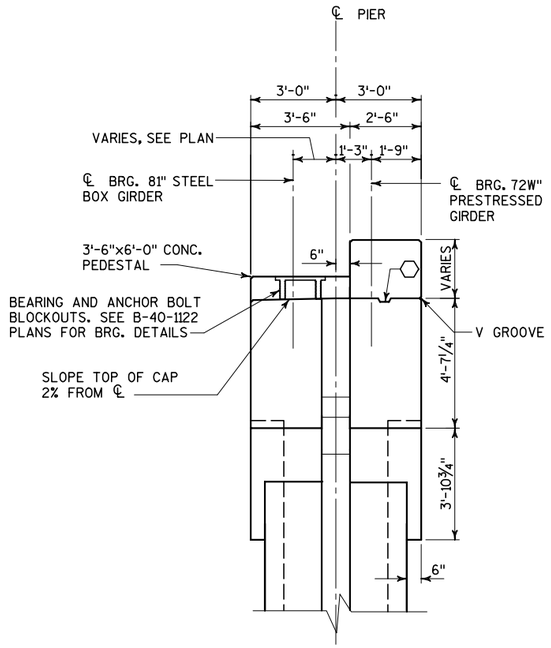
SECTION A-A



ELEVATION
(LOOKING EAST)



END ELEVATION



SECTION B-B

LEGEND

⚠ SUGGESTED JACKING LOCATIONS FOR FUTURE BEARING REPLACEMENT. SEE B-40-1122 PLANS FOR JACKING PROVISIONS. ESTIMATED JACKING FORCE = 230 KIPS.

NOTES

1. SEE B-40-1122 PLANS FOR BOX GIRDER BEARINGS AND ANCHOR BOLT INFORMATION. CONTRACTOR SHALL ADJUST THE HEIGHT OF THE PEDESTALS AS REQUIRED TO MEET THE ACTUAL BEARING DIMENSIONS. MINIMUM PEDESTAL HEIGHT = 6".
2. SIDE FORMS FOR FRONT AND SIDE FACE RECESSES MAY BE TAPERED AT A MAXIMUM RATE OF 1 IN 10 IN ORDER TO FACILITATE FORM REMOVAL.
3. BLOCKOUT INFORMATION FOR BEARINGS AND ANCHOR BOLTS IS SCHEMATIC ONLY. CONTRACTOR SHALL COORDINATE BLOCKOUT SIZE AND NUMBER AND LOCATION OF ANCHOR BOLTS WITH THE INFORMATION GIVEN IN THE PLANS FOR STRUCTURE B-40-1122 AND WITH THE BEARING SUPPLIER.
4. ANCHOR BOLTS SHALL BE EITHER INSTALLED IN BLOCKOUTS AS SHOWN OR CAST DIRECTLY INTO THE PIER CAP / PEDESTAL. DRILLING OR CORING IN PLACE OF THE BLOCKOUTS SHOWN WILL NOT BE PERMITTED.
5. ANCHOR BOLT BLOCKOUTS SHALL BE FORMED USING CORRUGATED FORMS THAT WILL PROVIDE POSITIVE INTERLOCK BETWEEN THE PIER CAP / PEDESTAL AND THE GROUT SURROUNDING THE ANCHOR BOLTS.

(P01) 1'-2"x6'-0"x3" CONST. JOINT FORMED BY BEVELED KEYWAY, TYPICAL TOP AND BOTTOM OF ALL COLUMNS.

(P02) CIP 16" DIA. PILING, ESTIMATED 115' LONG & DRIVEN TO A MIN. BRG. VALUE OF 230 TONS. PILE REDRIVING REQUIRED AS PER THE SPECIAL PROVISIONS.

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 385.

(P06) 1½" X 8" X 3'-6" MASONRY PLATE, SEE "PRESTRESSED GIRDER BEARINGS" SHEET FOR DETAILS.

⬡ KEYED CONSTRUCTION JOINT FORMED BY SURFACED BEVELED 2"x6"

* ELEVATIONS ARE GIVEN AT THE TOP OF CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER & ℄ BRG. 72W" GIRDER

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CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P1-001

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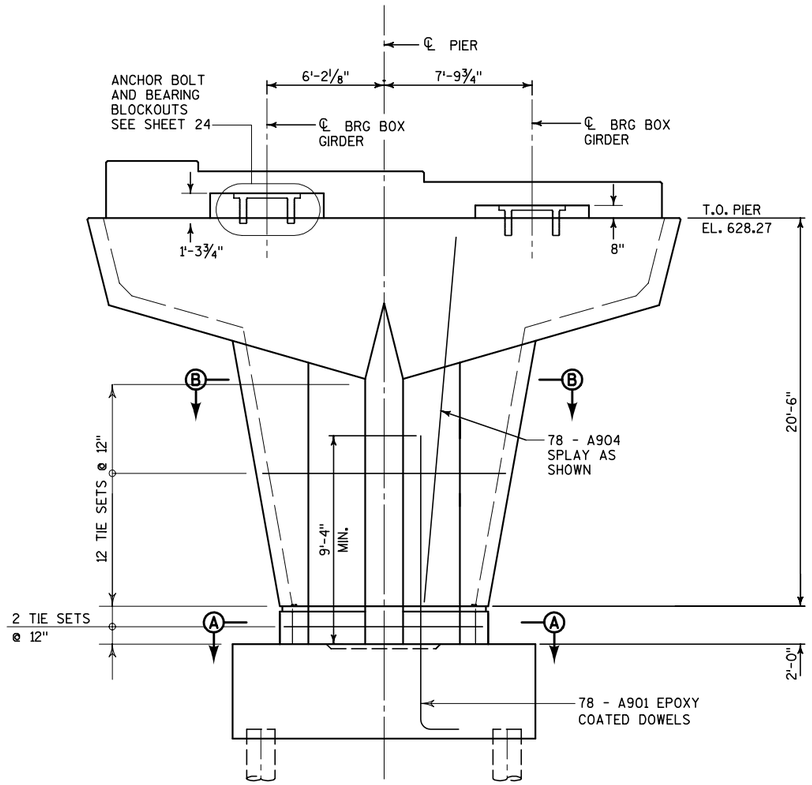

ELEVATION
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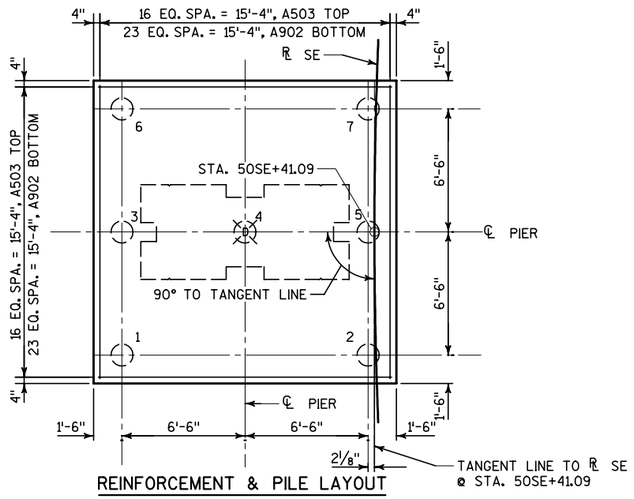
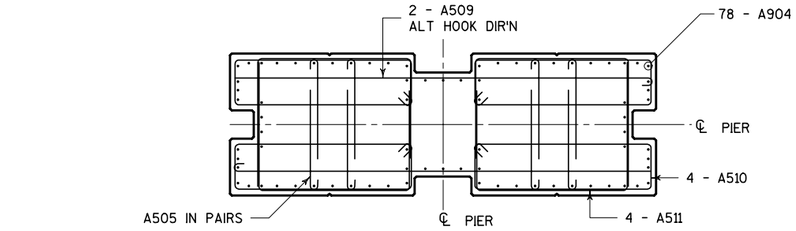


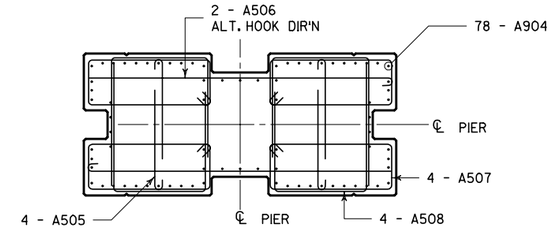
REINFORCEMENT & PILE LAYOUT

FOOTING PLAN

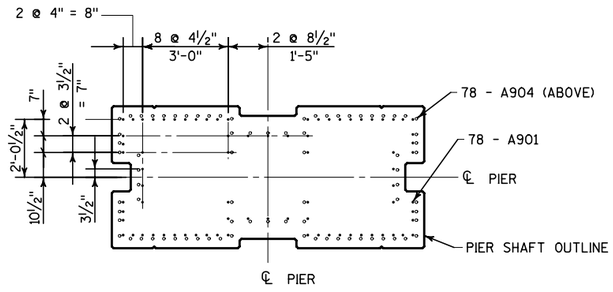


1 TOP SET x 6 PAIRS/SET
8 MIDDLE SETS x 4 PAIRS/SET
3 BOTTOM SETS x 2 PAIRS/SET
TOTAL = 44 PAIRS

SECTION B-B



SECTION A-A



DOWEL PLACEMENT LAYOUT
SYMMETRICAL IN BOTH DIRECTIONS AS SHOWN

NOTES

1. THE FIRST TIE SET IN EACH POUR SECTION SHALL BE PLACED AT 6" ABOVE TOP OF PREVIOUS POUR. ADDITIONAL TIES SPACED AS SHOWN.
2. MAINTAIN MINIMUM 2" CLEAR COVER TO MAIN REINFORCEMENT AT HORIZONTAL REVEAL. MAINTAIN MINIMUM 2" CLEAR COVER TO TIES AT VERTICAL V-GROOVE LOCATIONS.
3. FOR PILE SPLICE AND PILE TIP DETAILS, SEE SHEET 396.

DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

8

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CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P1-001 REINFORCEMENT LAYOUT

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STATE PROJECT NUMBER

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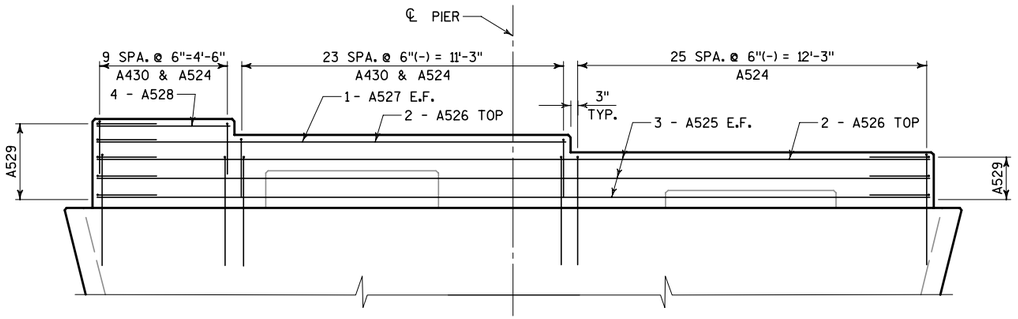
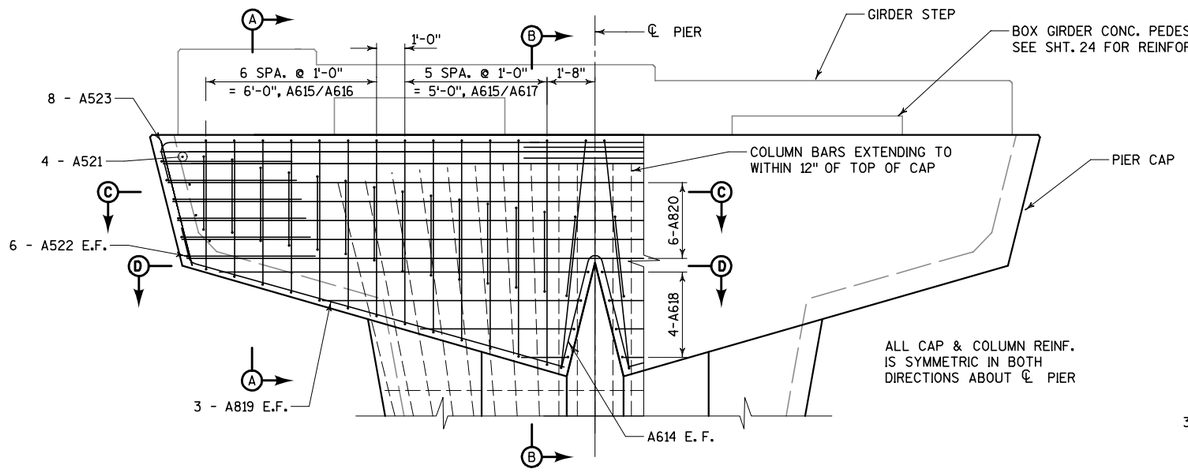
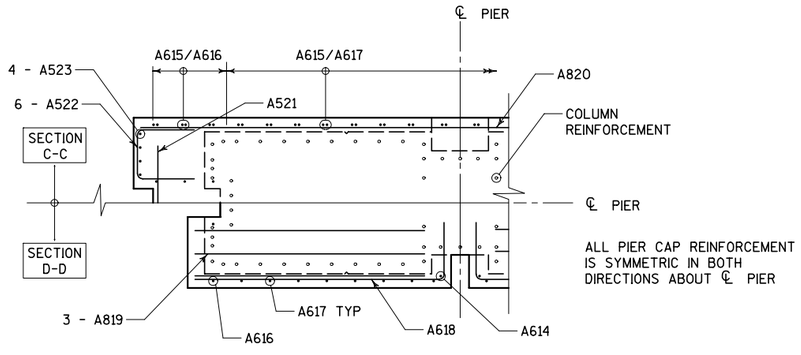


PARTIAL ELEVATION - REINFORCEMENT

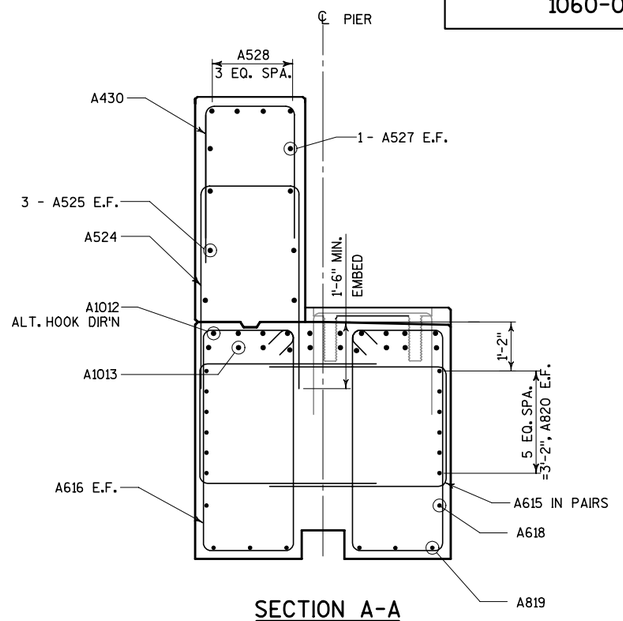
(SHOWING GIRDER STEP REINFORCEMENT)



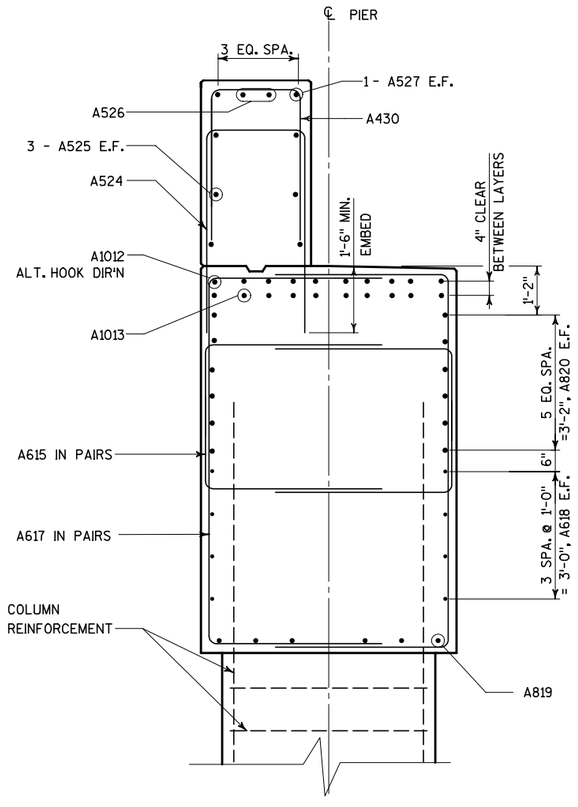
ELEVATION - REINFORCEMENT



SECTION C-C / D-D



SECTION A-A



SECTION B-B

NOTES

1. COLUMN BARS EXTENDING INTO THE CAP MAY BE MADE VERTICAL WHERE THEY ENTER THE CAP IN ORDER TO SIMPLIFY PLACEMENT OF THE PIER CAP REINFORCING CAGE.

   BARS MAY EITHER BE DETAILED AND FABRICATED WITH THE REQUIRED BEND OR THEY MAY BE BENT VERTICAL IN THE FIELD AFTER THE POUR BELOW HAS BEEN COMPLETED.
2. BARS EXTENDING THE FULL WIDTH OF THE CAP MAY BE SPLICED AT CENTERLINE OF PIER. SEE GENERAL NOTES FOR REQUIRED SPLICE LENGTHS.
3. ALL CAP & COLUMN REINFORCEMENT IS SYMMETRIC IN BOTH DIRECTIONS ABOUT ℄ PIER. GIRDER STEP REINFORCEMENT IS NOT SYMMETRIC.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

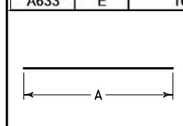
PIER P1-001 CAP REINFORCEMENT LAYOUT

SHEET 23 OF 396

2891

FILE NAME: R:\C\bridges\1312\cds\1312-01C012D.dgn PEN TABLE: \\mtp\FinalDgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:26 Plotted by: emccrigh

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
A901	E	78	15'-5"	4089	8	1'-7"	14'-1"								FOOTING	DOWEL
A902		52	15'-6"	2740	1	15'-6"									FOOTING	BOTTOM
A503		34	15'-6"	550	1	15'-6"									FOOTING	TOP
A904	E	78	19'-6"	5171	1	19'-6"									COLUMN	VERTICAL
A505	E	96	4'-1"	409	2	3'-6"									COLUMN	TIES
A506	E	4	11'-3"	47	2	10'-8"									COLUMN	TIES
A507	E	8	11'-4"	95	3	1'-5"	3'-11"								COLUMN	TIES
A508	E	8	11'-0"	92	22	3'-6"	3'-3"	4'-6"							COLUMN	TIES
A509	E	2 series of 12	11'-5" to 15'-2 3/4"	334	2	10'-10" to 14'-8 1/4" by 4 1/4"									COLUMN	TIES. BUNDLE AND TAG EACH SERIES SEPARATELY
A510	E	4 series of 12	11'-8" to 15'-6 1/2"	681	3	1'-5"	4'-1" to 6'-0 3/8" by 2 1/8"								COLUMN	TIES. BUNDLE AND TAG EACH SERIES SEPARATELY
A511	E	4 series of 12	11'-2" to 13'-1 3/8"	608	22	3'-6"	3'-5" to 5'-4 3/8" by 2 1/8"	4'-6"							COLUMN	TIES. BUNDLE AND TAG EACH SERIES SEPARATELY
A1012	E	20	24'-5"	2101	9	2'-0"	22'-9"	105°							CAP	TOP BARS
A1013	E	20	22'-9"	1958	1	22'-9"									CAP	TOP BARS - LAYER 2
A614	E	2	9'-5"	28	10	4'-0"	152°	6"							CAP	SIDES
A615	E	56	10'-6"	883	4	4'-2"	2'-6"								CAP	STIRRUPS
A616	E	4 series of 7	13'-11" to 17'-5"	659	3	4'-5 1/2" to 6'-2 1/2" by 3 1/2"	2'-1"								CAP	STIRRUPS. BUNDLE AND TAG EACH SERIES SEPARATELY
A617	E	4 series of 7	14'-6" to 16'-3"	647	4	4'-2"	6'-6" to 8'-3" by 3 1/2"								CAP	STIRRUPS. BUNDLE AND TAG EACH SERIES SEPARATELY
A618	E	4 series of 4	3'-11" to 14'-11"	226	8	2'-1" to 13'-1" by 3'-8"	2'-0"								CAP	SIDES. BUNDLE AND TAG EACH SERIES SEPARATELY
A819	E	12	15'-7"	499	9	13'-8"	2'-0"	60°							CAP	BOTTOM
A820	E	2 series of 6	30'-5" to 28'-5"	942	1	30'-5" to 28'-5" by $4\frac{3}{4}$"									CAP	SIDES. BUNDLE AND TAG EACH SERIES SEPARATELY
A521	E	8	4'-0"	33	1	4'-0"									CAP	END HORIZONTALS
A522	E	24	5'-8"	142	4	2'-0"	1'-11"								CAP	END HORIZONTALS
A523	E	16	4'-3"	71	1	4'-3"									CAP	END VERTICALS
A524	E	60	8'-6"	532	4	3'-4"	2'-1"								CAP	GIRDER STEP STIRRUPS
A525	E	6	29'-0"	181	1	29'-0"									CAP	GIRDER STEP SIDES
A526	E	4	13'-6"	56	1	13'-6"									CAP	GIRDER STEP TOP
A527	E	2	16'-5"	34	1	16'-5"									CAP	GIRDER STEP SIDES
A528	E	4	4'-8"	19	1	4'-8"									CAP	GIRDER STEP SIDES & TOP
A529	E	8	5'-6"	46	4	1'-11"	1'-11"								CAP	GIRDER STEP ENDS
A430	E	34	6'-1"	138	4	2'-1"	2'-1"								CAP	GIRDER STEP STIRRUPS
A631	E	12	10'-6"	189	4	4'-0"	2'-10"								CAP	BOX GIRDER PEDESTALS
A632	E	24	9'-6"	342	4	3'-5"	3'-0"								CAP	BOX GIRDER PEDESTALS
A633	E	16	12'-1"	290	4	3'-5"	5'-7"								CAP	BOX GIRDER PEDESTALS



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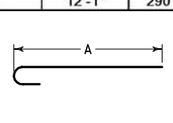

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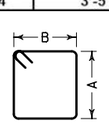

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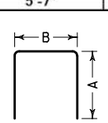

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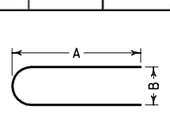

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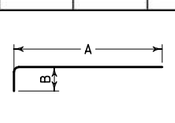

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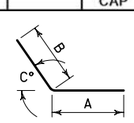

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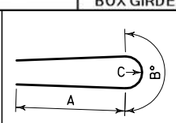

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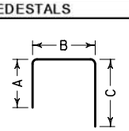


TYPE 22

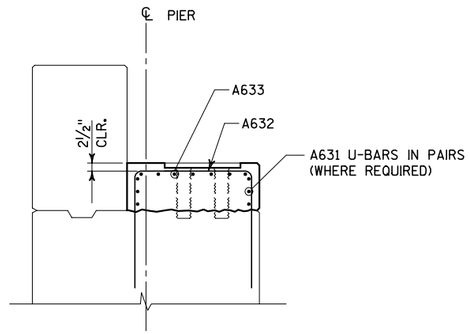
TOTAL NON-EPOXY REINFORCEMENT WT (LB)	3080
TOTAL EPOXY REINFORCEMENT WT (LB)	22780

STATE PROJECT NUMBER

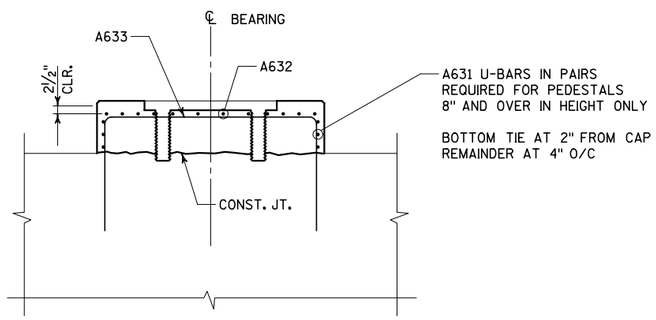
1060-05-75

NOTES

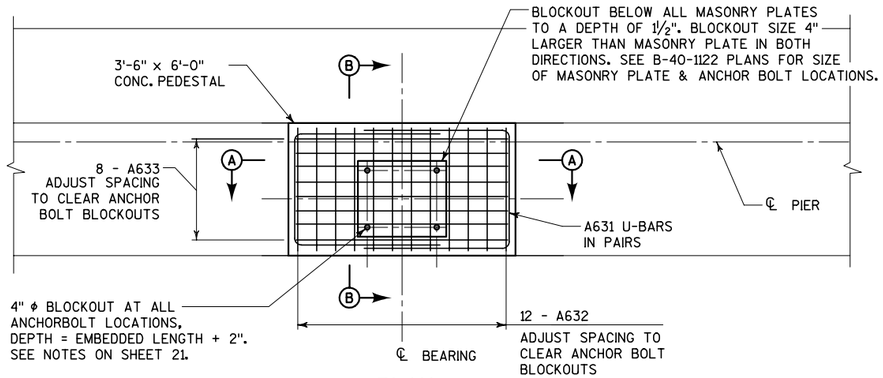
1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.



SECTION B-B



SECTION A-A



PLAN

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P1-001
REINF. SCHEDULE & BEARING PEDESTAL

SHEET 24 OF 396
2892

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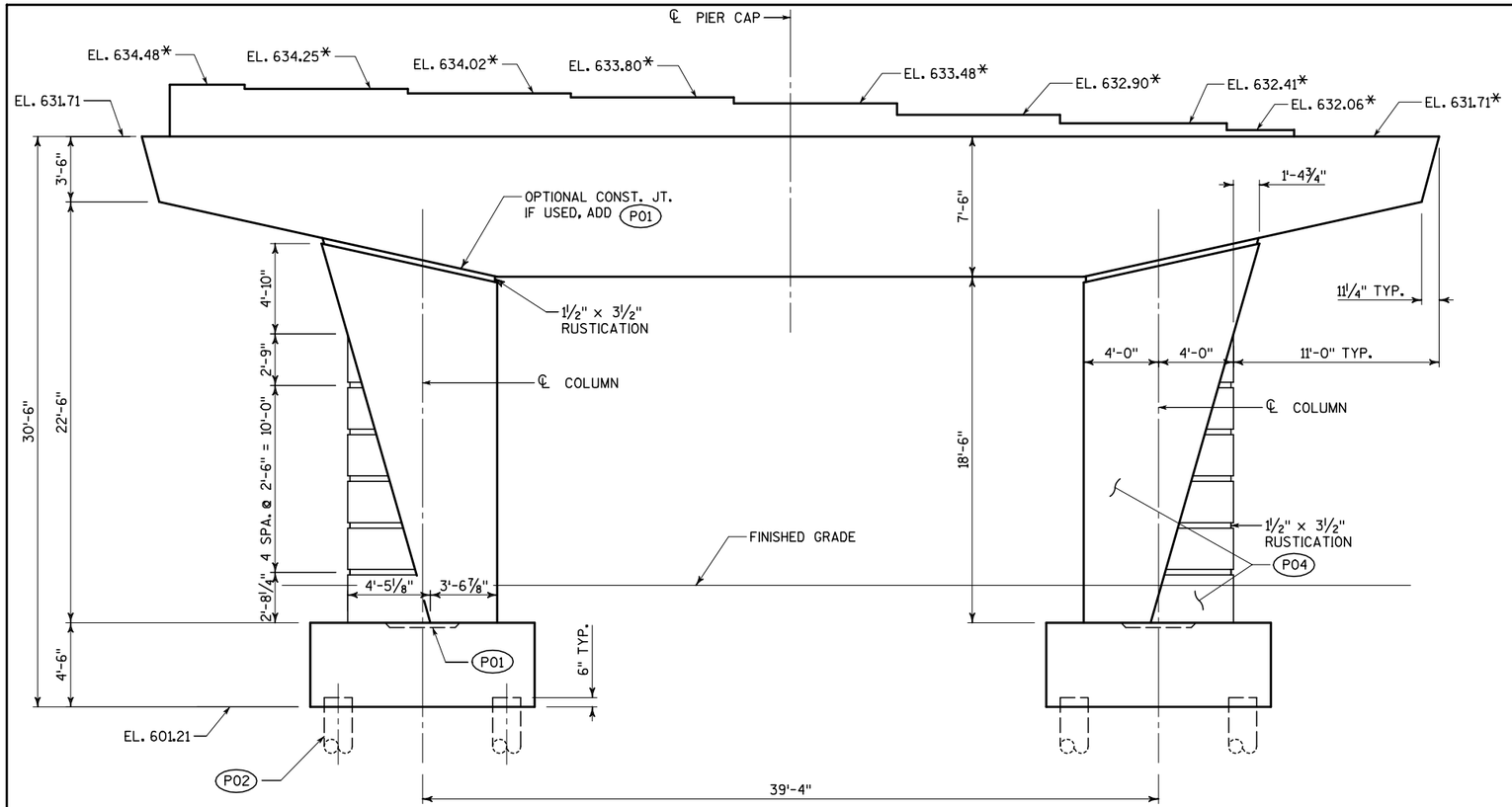
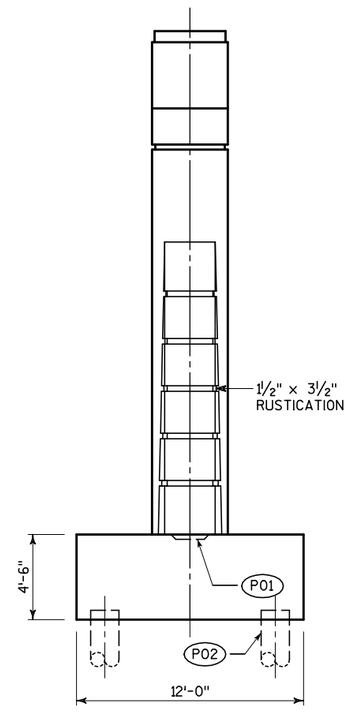
STATE PROJECT NUMBER

1060-05-75

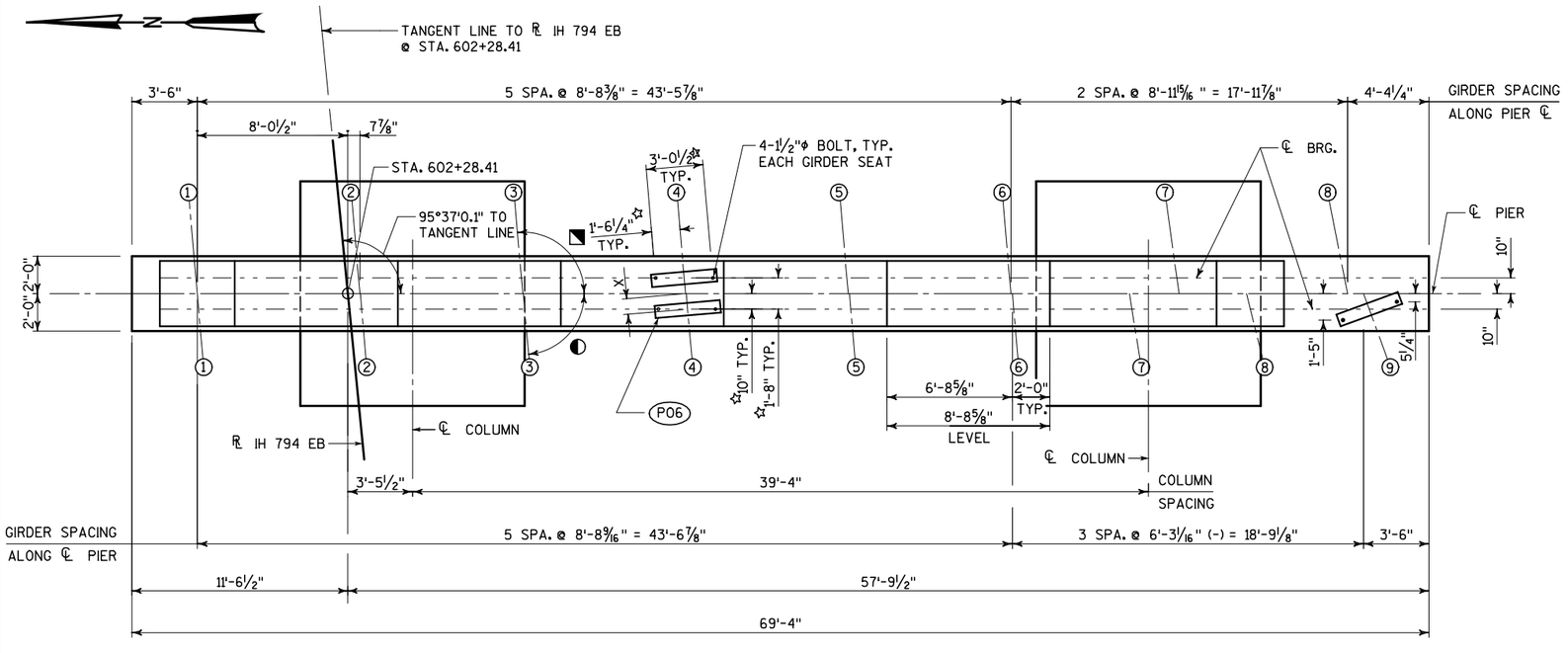

℄ PIER CAP
EL. 634.48*
EL. 634.25*
EL. 634.02*
EL. 633.80*
EL. 633.48*
EL. 632.90*
EL. 632.41*
EL. 632.06*
EL. 631.71*
EL. 631.71
3'-6"
OPTIONAL CONST. JT. IF USED, ADD P01
7'-6"
1'-4¾"
11¼" TYP.
1½" x 3½" RUSTICATION
4'-10"
2'-9"
4 SPA. @ 2'-6" = 10'-0"
2'-8¼"
30'-6"
22'-6"
18'-6"
4'-0"
4'-0"
11'-0" TYP.
℄ COLUMN
℄ COLUMN
1½" x 3½" RUSTICATION
P04
FINISHED GRADE
4'-5⅛"
3'-6⅞"
P01
6" TYP.
4'-6"
EL. 601.21
P02
39'-4"

ELEVATION

(LOOKING EAST-SHOWING DIMENSIONS)



END ELEVATION



PLAN

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 225 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 115'.

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 383.

(P06) 1½" THICK MASONRY PLATE, SEE "PRESTRESSED GIRDER BEARINGS" SHEET FOR DETAILS.

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

☆ DIMENSIONS ARE GIVEN TO THE ℄ OF ANCHOR BOLTS.

DIM. X IS GIVEN FROM THE ℄ PIER TO THE ℄ BRG. ALONG THE ℄ GIRDER.

BEARING ANGLE

LOCATION		ANGLE	DIM. X
◥	GIRDER 1	94°55'43.6"	10 1/16"
	GIRDER 2	94°55'43.6"	10 1/16"
	GIRDER 3	94°55'43.6"	10 1/16"
	GIRDER 4	94°55'43.6"	10 1/16"
	GIRDER 5	94°55'43.6"	10 1/16"
	GIRDER 6	94°55'43.6"	10 1/16"
	GIRDER 7	98°5'24.6"	10 1/8"
	GIRDER 8	101°9'31.4"	10 1/8"
◐	GIRDER 1	85°4'16.4"	10 1/16"
	GIRDER 2	85°4'16.4"	10 1/16"
	GIRDER 3	85°4'16.4"	10 1/16"
	GIRDER 4	85°4'16.4"	10 1/16"
	GIRDER 5	85°4'16.4"	10 1/16"
	GIRDER 6	85°4'16.4"	10 1/16"
	GIRDER 7	80°54'23.6"	10 1/8"
	GIRDER 8	76°9'20.0"	10 5/16"
	GIRDER 9	69°58'4.0"	10 3/4"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P2-001

SHEET 25 OF 396

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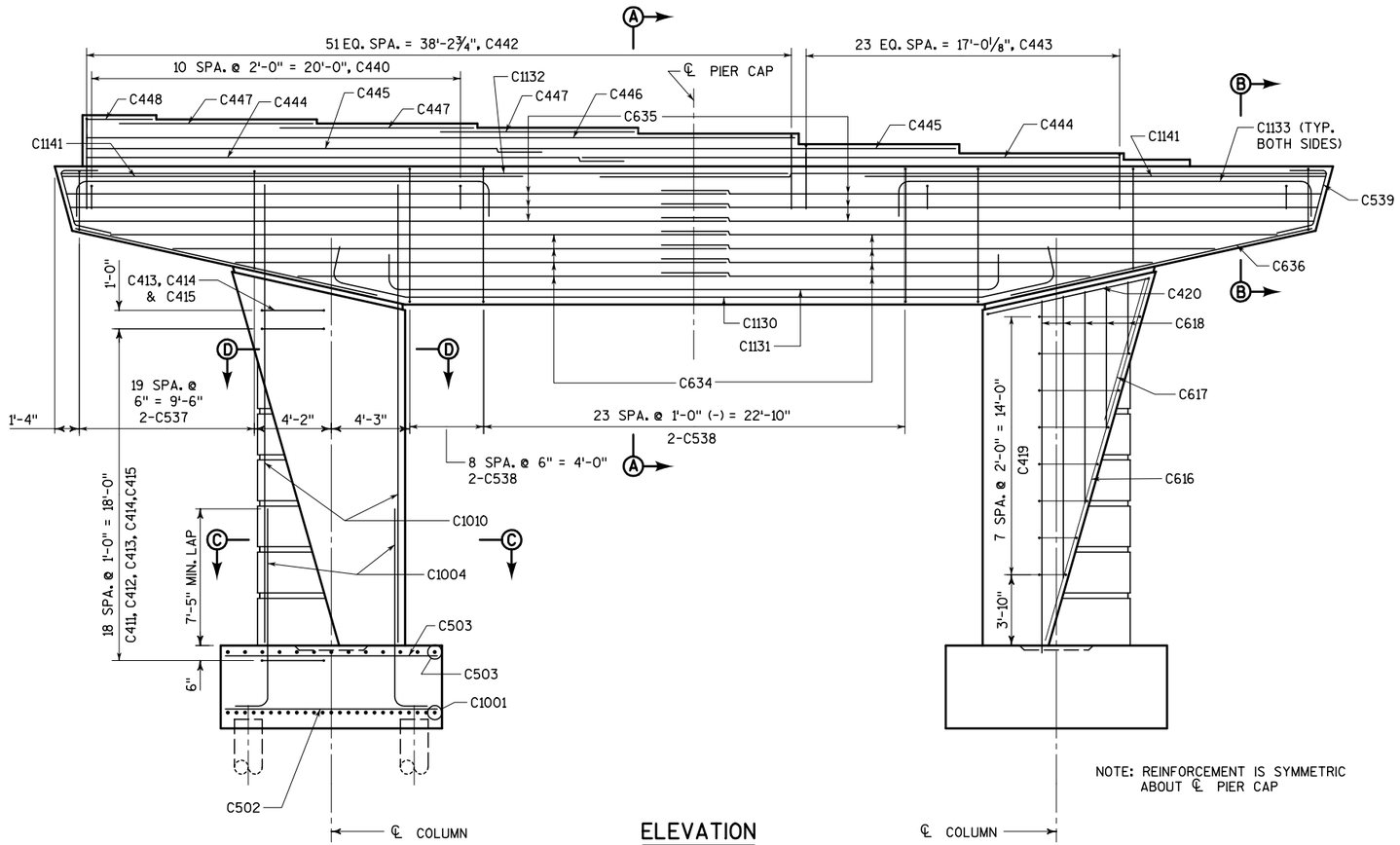
8

STATE PROJECT NUMBER

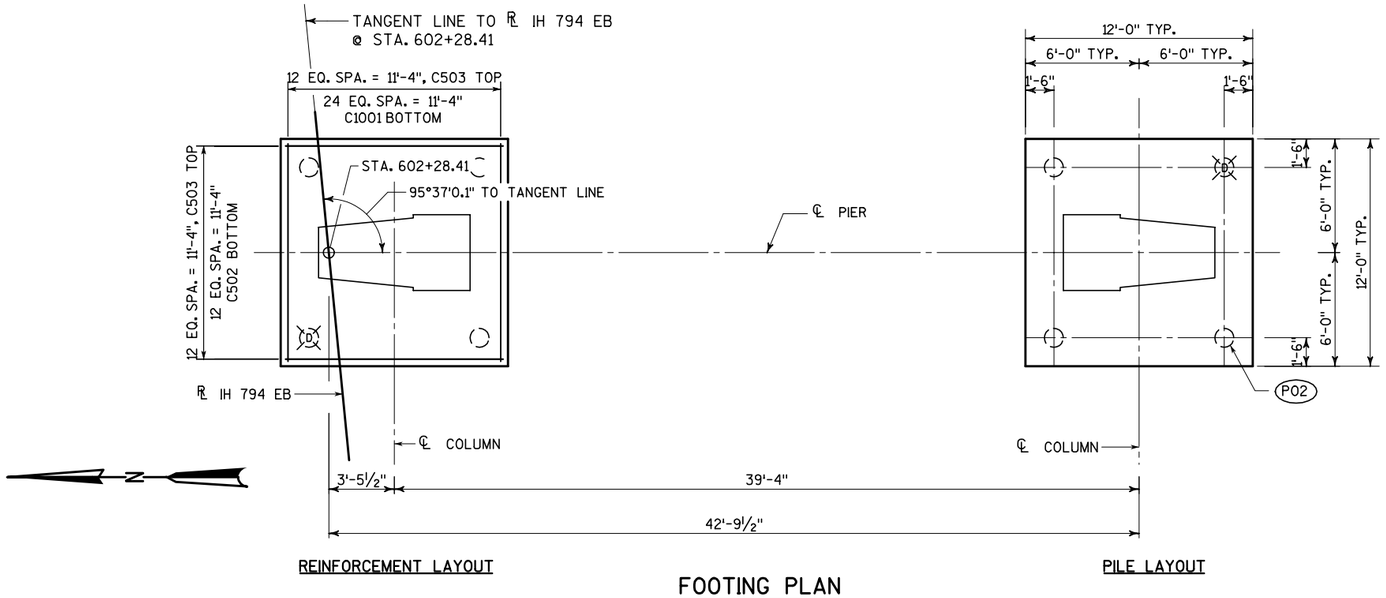
1060-05-75



ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)

NOTE: REINFORCEMENT IS SYMMETRIC ABOUT ℄ PIER CAP



REINFORCEMENT LAYOUT

PILE LAYOUT

FOOTING PLAN

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 225 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 115'.

DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

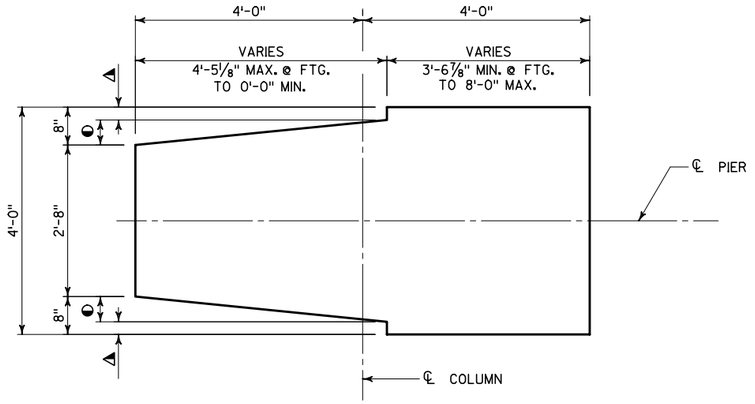
STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P2-001
REINF. LAYOUT

SHEET 26 OF 396

2894

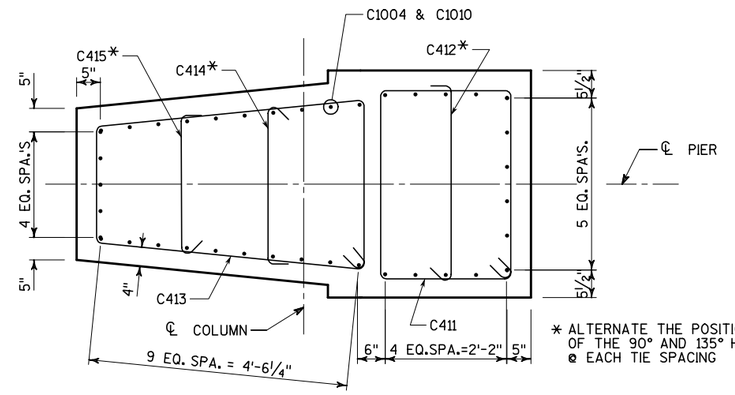


SECTION THRU COLUMN

(SHOWING DIMENSIONS)

◑ VARIES 5¼" MAX. @ FTG. TO 0" MIN.

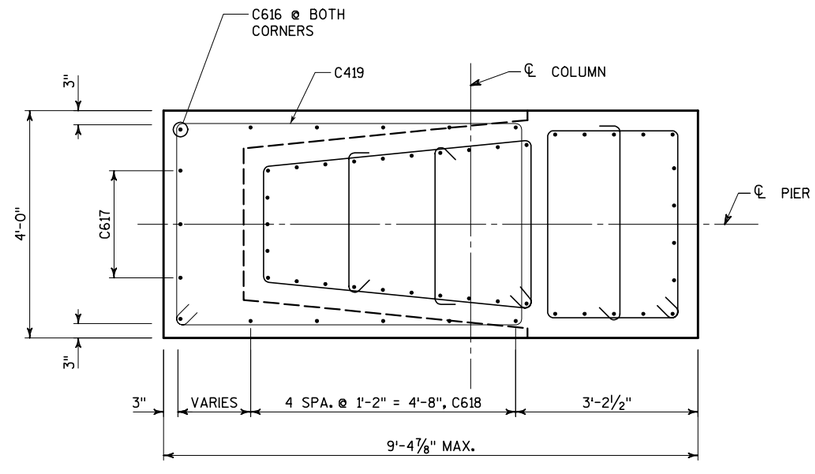
◭ VARIES 2¾" MIN. @ FTG. TO 8" MAX.



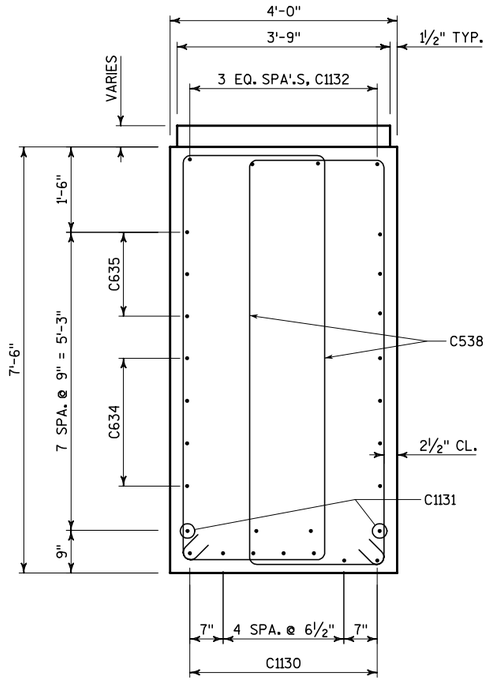
* ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS @ EACH TIE SPACING

SECTION C-C

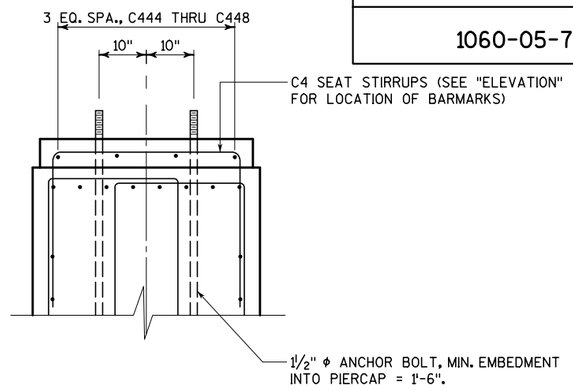
(SHOWING REINFORCEMENT)



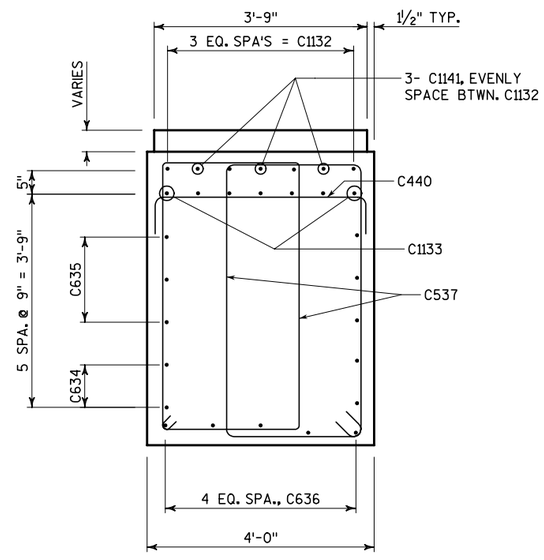
SECTION D-D



SECTION A-A



SECTION THRU GIRDER SEAT



SECTION B-B

STATE PROJECT NUMBER

1060-05-75

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

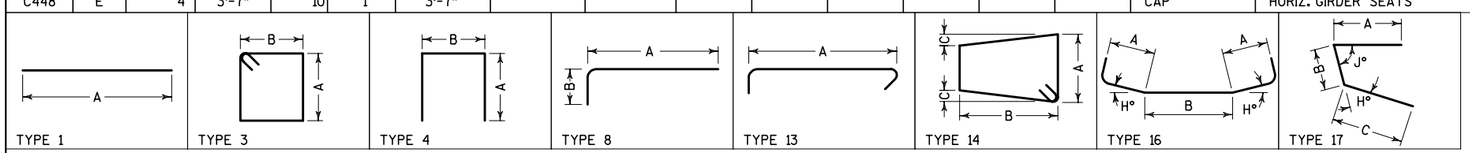
PIER P2-001 DETAILS

SHEET 27 OF 396

2895

8

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
C1001		50	11'-6"	2474	1	11'-6"									FOOTING	BOTTOM
C502		26	11'-6"	312	1	11'-6"									FOOTING	BOTTOM
C503		52	11'-6"	624	1	11'-6"									FOOTING	TOP
C1004	E	74	12'-7"	4007	8	11'-1"									FOOTING	DOWEL
C1010	E	74	24'-10"	7908	1	24'-10"									COLUMN	VERTICAL
C411	E	38	11'-10"	300	3	3'-4"	2'-4"								COLUMN	TIES
C412	E	38	4'-0"	102	13	3'-4"									COLUMN	TIES
C413	E	40	15'-1"	403	14	3'-0"	4'-9"	6"							COLUMN	TIES
C414	E	40	3'-4"	89	13	2'-8½"									COLUMN	TIES
C415	E	40	3'-1"	82	13	2'-5"									COLUMN	TIES
C616	E	4	20'-6"	123	1	20'-6"									COLUMN	VERTICAL
C617	E	6	8'-0"	72	1	8'-0"									COLUMN	VERTICAL
C618	E	4 series of 5	19'-1" to 3'-10"	344	1	19'-1" to 3'-10" by 3'-9¾"									COLUMN	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
C419	E	2 series of 8	18'-7" to 10'-7"	156	3	5'-5½" to 1'-5½" by 6⅞"	3'-7"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
C420	E	2	26'-1"	35	3	9'-2½"	3'-7"								COLUMN	TIES
C1130	E	7	42'-10"	1593	16	4'-2"	31'-3"						12.49		CAP	BOTTOM
C1131	E	4	36'-4"	772	4	1'-11½"	33'-2"								CAP	BOTTOM
C1132	E	8	39'-5"	1676	1	39'-5"									CAP	TOP
C1133	E	14	24'-10"	1847	4	1'-11½"	21'-8"								CAP	TOP
C634	E	4 series of 4	23'-3" to 33'-5"	680	1	23'-3" to 33'-5" by 3'-4⅝"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
C635	E	4 series of 3	35'-5" to 35'-9"	641	1	35'-5" to 35'-9" by 2"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
C636	E	10	16'-9"	252	1	16'-9"									CAP	BOTTOM @ ENDS
C537	E	4 series of 20	15'-11" to 11'-9"	1156	3	5'-3" to 3'-2" by 1⅜"	2'-5"								CAP	STIRRUPS @ ENDS, BUNDLE AND TAG EACH SERIES SEPARATELY
C538	E	80	19'-7"	1634	3	7'-1"	2'-5"								CAP	STIRRUPS
C539	E	10	7'-0"	73	17	2'-0"	3'-2"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
C440	E	22	4'-8"	69	4	8"	3'-7"								CAP	TIE
C1141	E	6	25'-0"	797	1	25'-0"									CAP	TOP
C442	E	52	11'-1"	385	4	4'-0"	3'-4"								CAP	VERTICAL GIRDER SEATS
C443	E	24	9'-1"	146	4	3'-0"	3'-4"								CAP	VERTICAL GIRDER SEATS
C444	E	8	29'-2"	156	1	29'-2"									CAP	HORIZ. GIRDER SEATS
C445	E	8	24'-8"	132	1	24'-8"									CAP	HORIZ. GIRDER SEATS
C446	E	4	38'-5"	103	1	38'-5"									CAP	HORIZ. GIRDER SEATS
C447	E	12	10'-6"	84	1	10'-6"									CAP	HORIZ. GIRDER SEATS
C448	E	4	3'-7"	10	1	3'-7"									CAP	HORIZ. GIRDER SEATS



TYPE 1 | TYPE 3 | TYPE 4 | TYPE 8 | TYPE 13 | TYPE 14 | TYPE 16 | TYPE 17

TOTAL NON-EPOXY REINFORCEMENT	WT (LB)	3410
TOTAL EPOXY REINFORCEMENT	WT (LB)	25828

STATE PROJECT NUMBER

1060-05-75

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

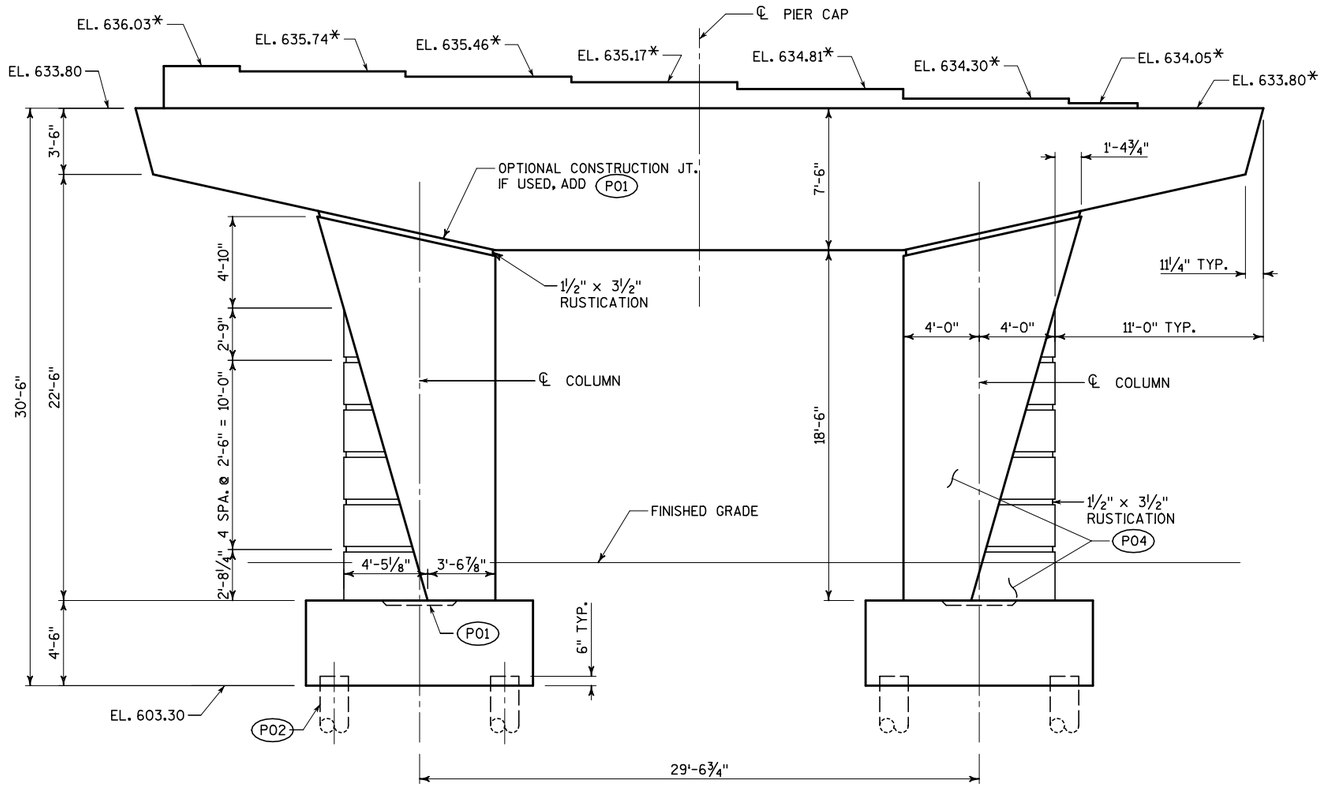
PIER P2-001
REINF. SCHEDULE

SHEET 28 OF 396

2896

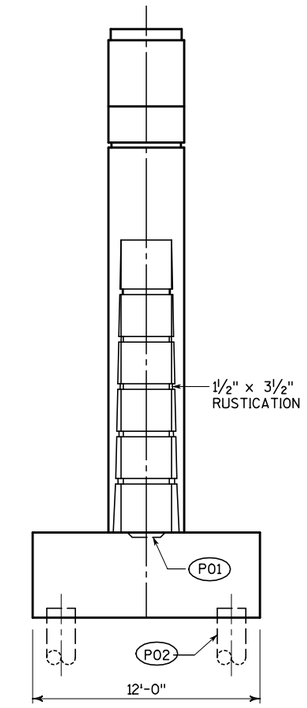
STATE PROJECT NUMBER

1060-05-75

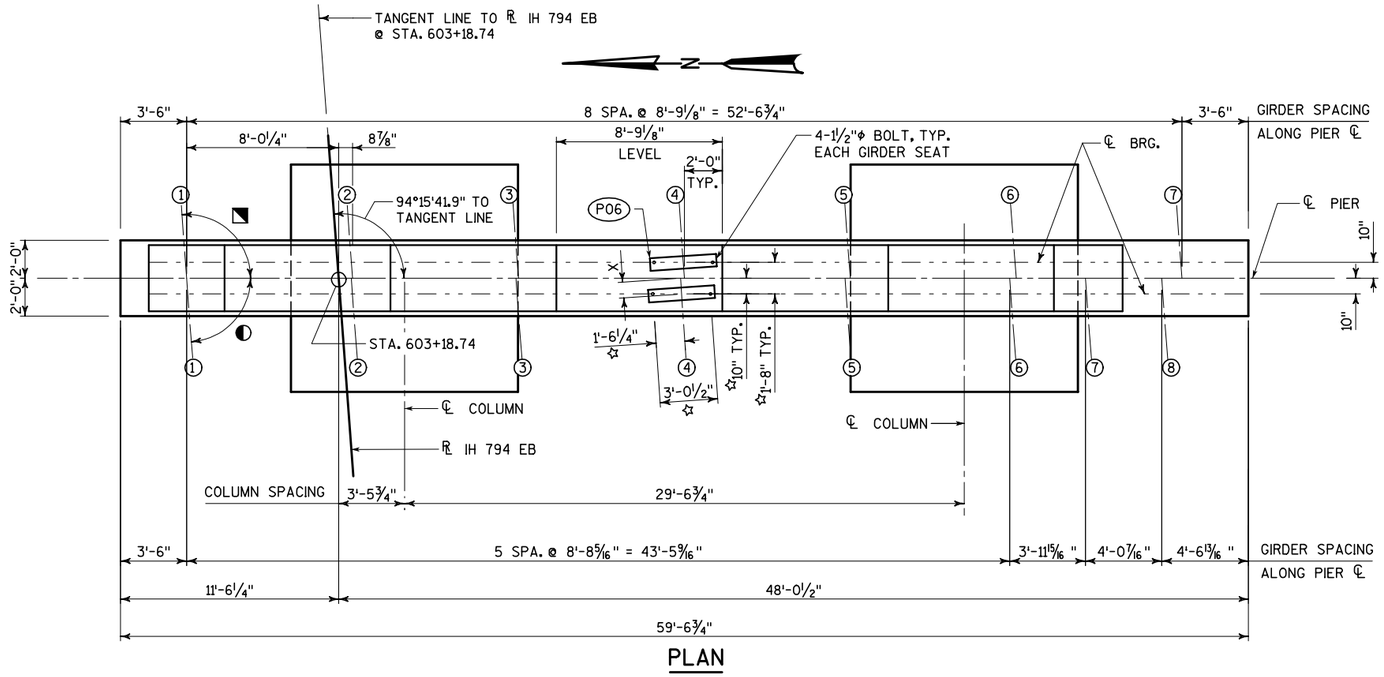


ELEVATION

(LOOKING EAST-SHOWING DIMENSIONS)



END ELEVATION



PLAN

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 235 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 95'.

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 383.

(P06) 1½" THICK MASONRY PLATE, SEE "PRESTRESSED GIRDER BEARINGS" SHEET FOR DETAILS.

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

☆ DIMENSIONS ARE GIVEN TO THE ℄ OF ANCHOR BOLTS.

DIM. X IS GIVEN FROM THE ℄ PIER TO THE ℄ BRG. ALONG THE ℄ GIRDER.

BEARING ANGLE

	LOCATION	ANGLE	DIM. X
◥	GIRDER 1	93°27'55.4"	10"
	GIRDER 2	93°30'41.4"	10"
	GIRDER 3	93°33'27.4"	10"
	GIRDER 4	93°36'13.3"	10"
	GIRDER 5	93°38'59.6"	10"
	GIRDER 6	93°41'45.6"	10"
	GIRDER 7	93°44'31.6"	10"
◐	GIRDER 1	85°3'41.9"	10 1/16"
	GIRDER 2	85°3'41.9"	10 1/16"
	GIRDER 3	85°3'41.9"	10 1/16"
	GIRDER 4	85°3'41.9"	10 1/16"
	GIRDER 5	85°3'41.9"	10 1/16"
	GIRDER 6	85°3'41.9"	10 1/16"
	GIRDER 7	81°54'35.3"	10 1/8"
	GIRDER 8	78°50'28.7"	10 3/16"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

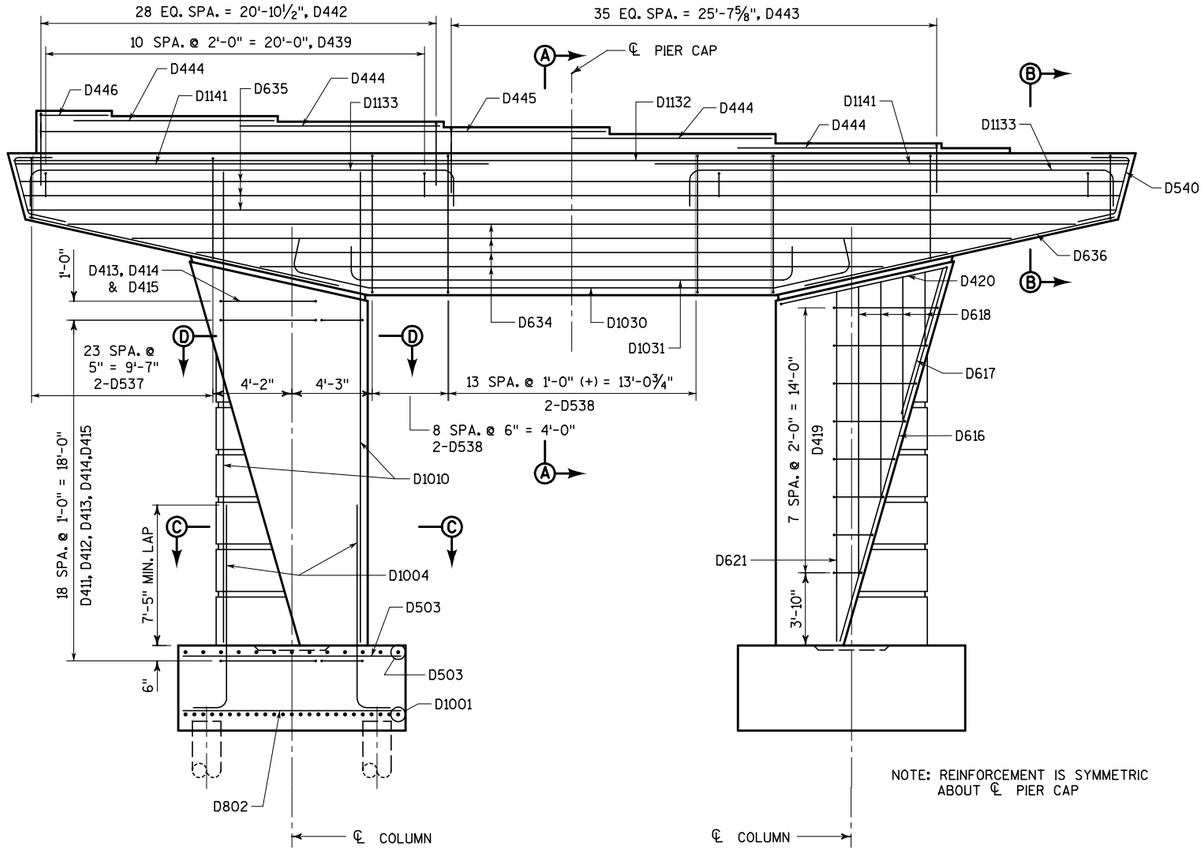
PIER P3-001

SHEET 29 OF 396

2897

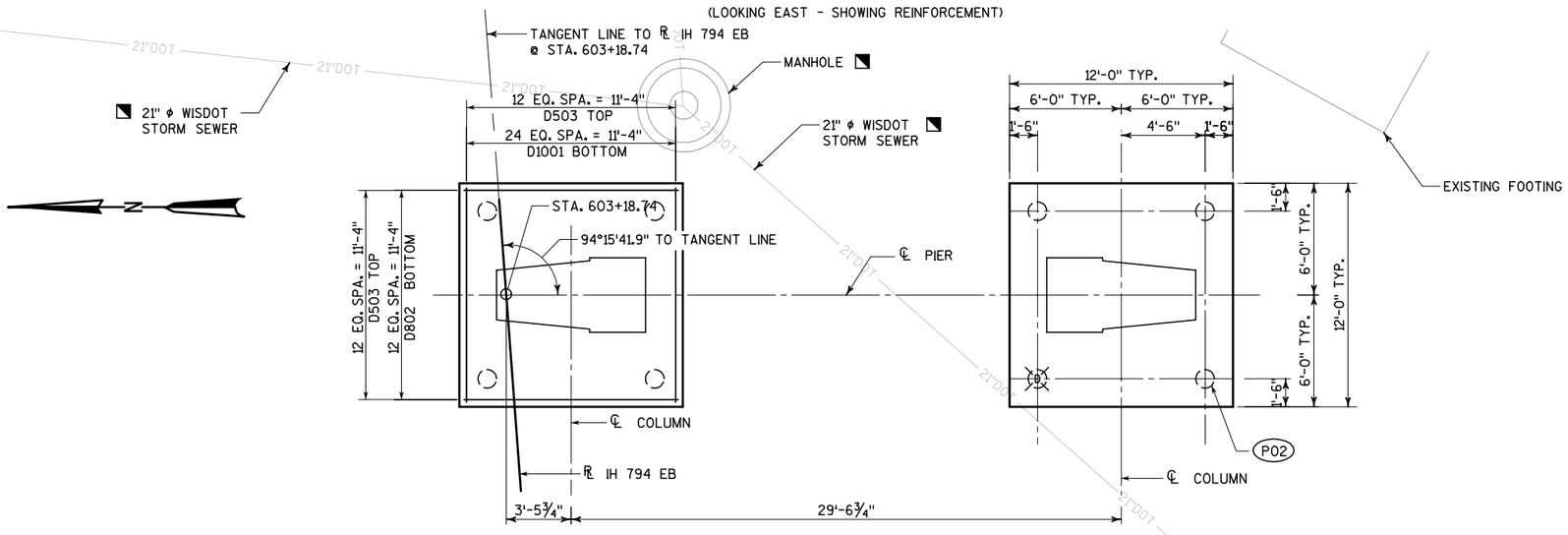
8

STATE PROJECT NUMBER
1060-05-75



ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)



REINFORCEMENT LAYOUT

PILE LAYOUT

FOOTING PLAN

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 235 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 95'.

(D) DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

◥ MANHOLE AND STORM SEWERS TO BE REMOVED AS PART OF REMOVAL PLANS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P3-001 REINF. LAYOUT

SHEET 30 OF 396

2898

8

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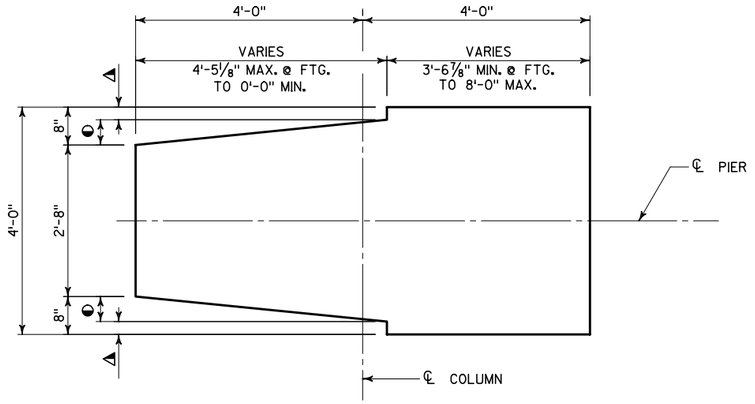
STATE PROJECT NUMBER
1060-05-75

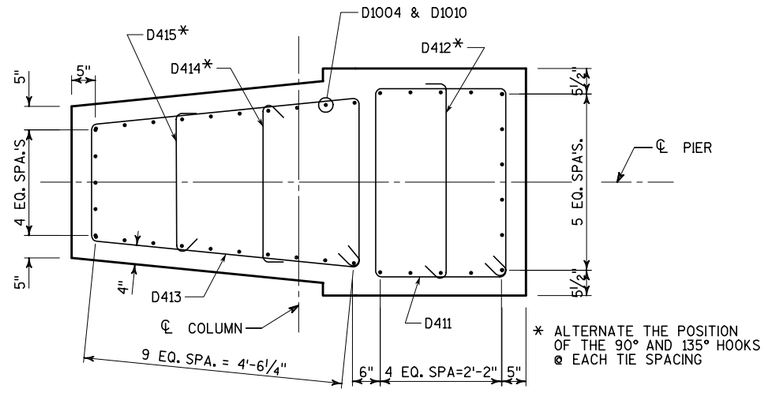


SECTION THRU COLUMN

(SHOWING DIMENSIONS)

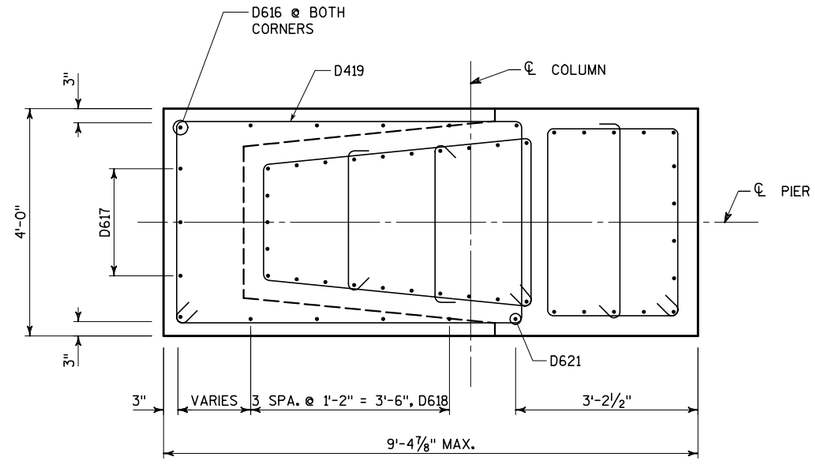
◒ VARIES 5¼" MAX. @ FTG. TO 0" MIN.

◭ VARIES 2¾" MIN. @ FTG. TO 8" MAX.

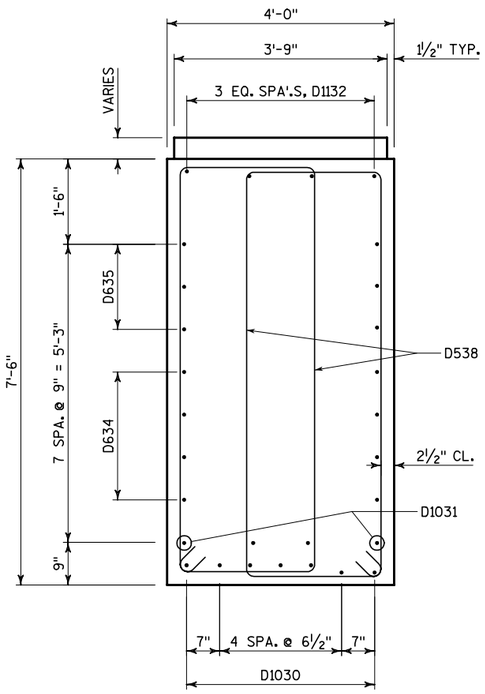


SECTION C-C

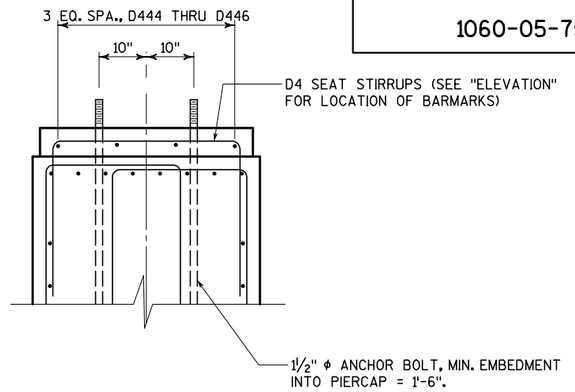
(SHOWING REINFORCEMENT)



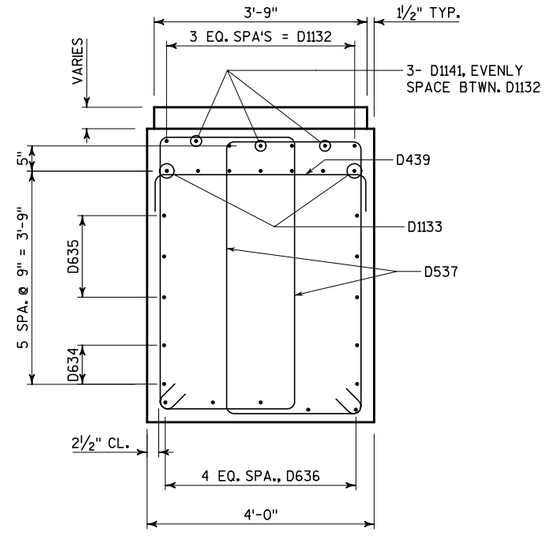
SECTION D-D



SECTION A-A



SECTION THRU GIRDER SEAT



SECTION B-B

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P3-001 DETAILS

SHEET 31 OF 396

2899

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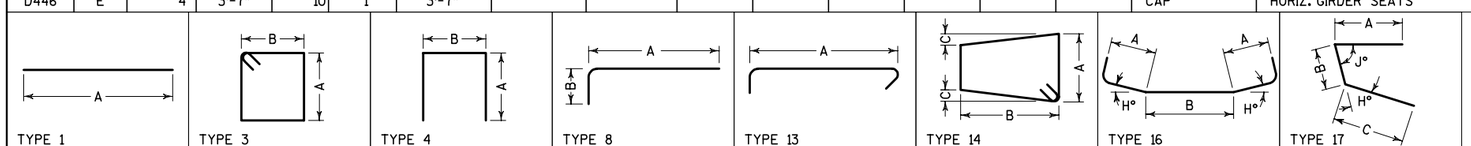
STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
D1001		50	11'-6"	2474	1	11'-6"									FOOTING	BOTTOM
D802		26	11'-6"	798	1	11'-6"									FOOTING	BOTTOM
D503		52	11'-6"	624	1	11'-6"									FOOTING	TOP
D1004	E	74	12'-7"	4007	8	11'-1"									FOOTING	DOWEL
D1010	E	74	24'-10"	7908	1	24'-10"									COLUMN	VERTICAL
D411	E	38	11'-10"	300	3	3'-4"	2'-4"								COLUMN	TIES
D412	E	38	4'-0"	102	13	3'-4"									COLUMN	TIES
D413	E	40	15'-1"	403	14	3'-0"	4'-9"	6"							COLUMN	TIES
D414	E	40	3'-4"	89	13	2'-8½"									COLUMN	TIES
D415	E	40	3'-1"	82	13	2'-5"									COLUMN	TIES
D616	E	4	20'-7"	124	1	20'-7"									COLUMN	VERTICAL
D617	E	6	8'-0"	72	1	8'-0"									COLUMN	VERTICAL
D618	E	4 series of 4	15'-4" to 3'-10"	230	1	15'-4" to 3'-10" by 3'-10"									COLUMN	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
D419	E	2 series of 8	18'-7" to 10'-7"	156	3	5'-5½" to 1'-5½" by 6⅞"	3'-7"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
D420	E	2	26'-1"	35	3	9'-2½"	3'-7"								COLUMN	TIES
D621	E	4	18'-6"	111	1	18'-6"									COLUMN	VERTICAL
D1030	E	7	32'-9"	987	16	4'-2"	21'-6"						12.49		CAP	BOTTOM
D1031	E	4	26'-4"	453	4	1'-9½"	23'-5"								CAP	BOTTOM
D1132	E	4	58'-11"	1252	1	58'-11"									CAP	TOP
D1133	E	14	24'-10"	1847	4	1'-11½"	21'-8"								CAP	CAPS
D634	E	2 series of 4	32'-11" to 53'-3"	517	1	32'-11" to 53'-3" by 6'-9¼"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
D635	E	2 series of 3	57'-6" to 58'-4"	522	1	57'-6" to 58'-4" by 5"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
D636	E	10	16'-9"	252	1	16'-9"									CAP	BOTTOM @ ENDS
D537	E	4 series of 24	15'-11" to 11'-9"	1385	3	5'-3" to 3'-2" by ⅛"	2'-5"								CAP	STIRRUPS @ ENDS, BUNDLE AND TAG EACH SERIES SEPARATELY
D538	E	60	19'-7"	1226	3	7'-1"	2'-5"								CAP	STIRRUPS
D439	E	22	4'-8"	69	4	8"	3'-7"								CAP	TIE
D540	E	10	7'-0"	73	17	2'-0"	3'-2"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
D1141	E	6	25'-0"	797	1	25'-0"									CAP	TOP
D442	E	29	10'-1"	195	4	3'-6"	3'-4"								CAP	VERTICAL GIRDER SEATS
D443	E	36	8'-7"	206	4	2'-9"	3'-4"								CAP	VERTICAL GIRDER SEATS
D444	E	16	10'-7"	113	1	10'-7"									CAP	HORIZ. GIRDER SEATS
D445	E	4	29'-10"	80	1	29'-10"									CAP	HORIZ. GIRDER SEATS
D446	E	4	3'-7"	10	1	3'-7"									CAP	HORIZ. GIRDER SEATS



NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

TOTAL NON-EPOXY REINFORCEMENT	WT (LB)	3897
TOTAL EPOXY REINFORCEMENT	WT (LB)	23604

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

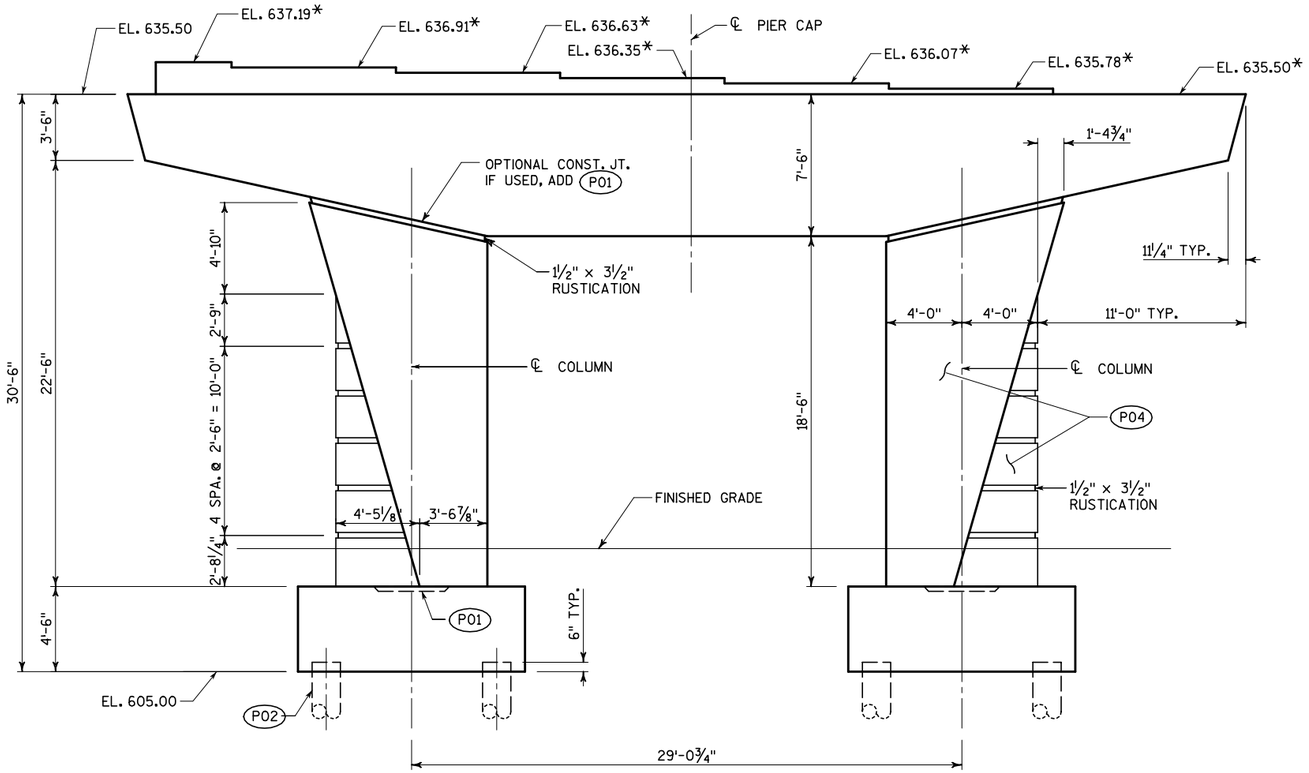
CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P3-001
REINF. SCHEDULE

SHEET 32 OF 396
2900

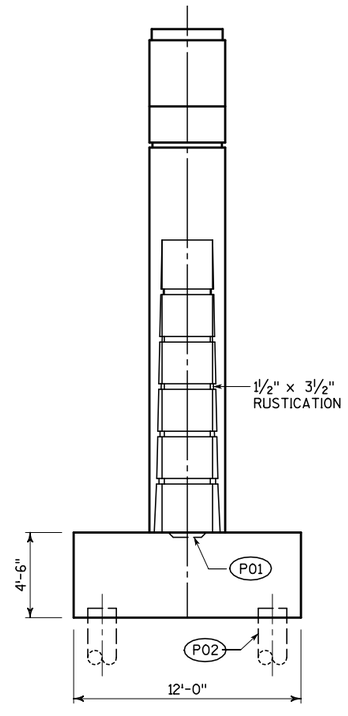
STATE PROJECT NUMBER

1060-05-75



ELEVATION

(LOOKING EAST-SHOWING DIMENSIONS)



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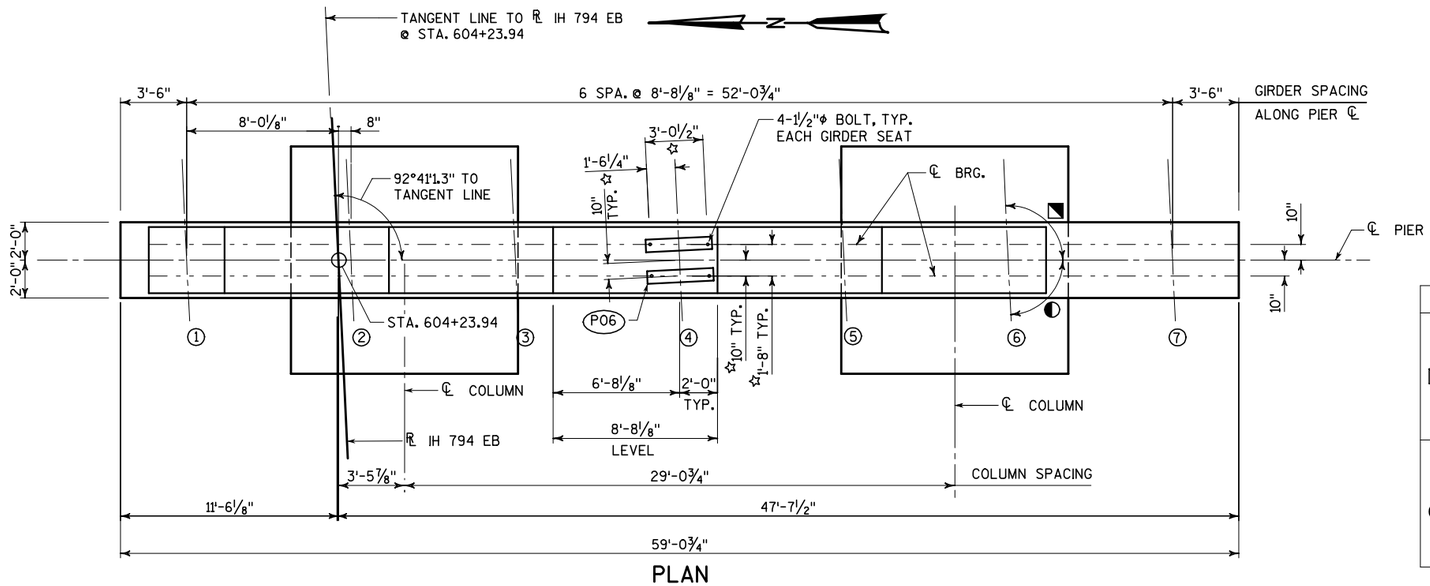

PLAN

BEARING ANGLE

	LOCATION	ANGLE
◥	GIRDER 1	91°42'17"
	GIRDER 2	91°42'31"
	GIRDER 3	91°42'45"
	GIRDER 4	91°42'59"
	GIRDER 5	91°43'13"
	GIRDER 6	91°43'27"
	GIRDER 7	91°43'41"
◐	GIRDER 1	86°32'05"
	GIRDER 2	86°29'19"
	GIRDER 3	86°26'33"
	GIRDER 4	86°23'47"
	GIRDER 5	86°21'01"
	GIRDER 6	86°18'15"
	GIRDER 7	86°15'28"

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 215 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 95'.

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 383.

(P06) 1½" THICK MASONRY PLATE, SEE "PRESTRESSED GIRDER BEARINGS" SHEET FOR DETAILS.

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

⌖ DIMENSIONS ARE GIVEN TO THE ℄ OF ANCHOR BOLTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P4-001

SHEET 33 OF 396

2901

8

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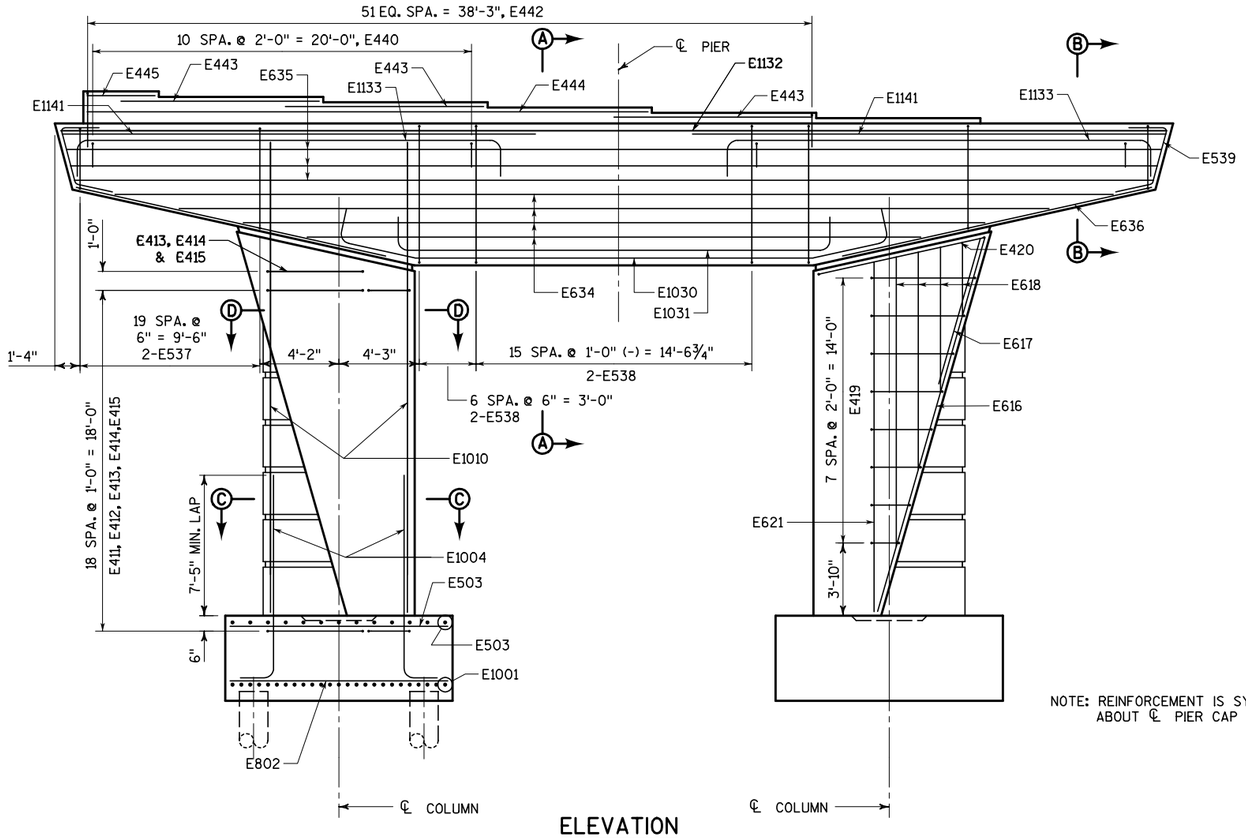
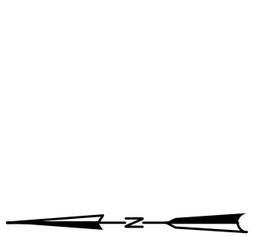
STATE PROJECT NUMBER
1060-05-75

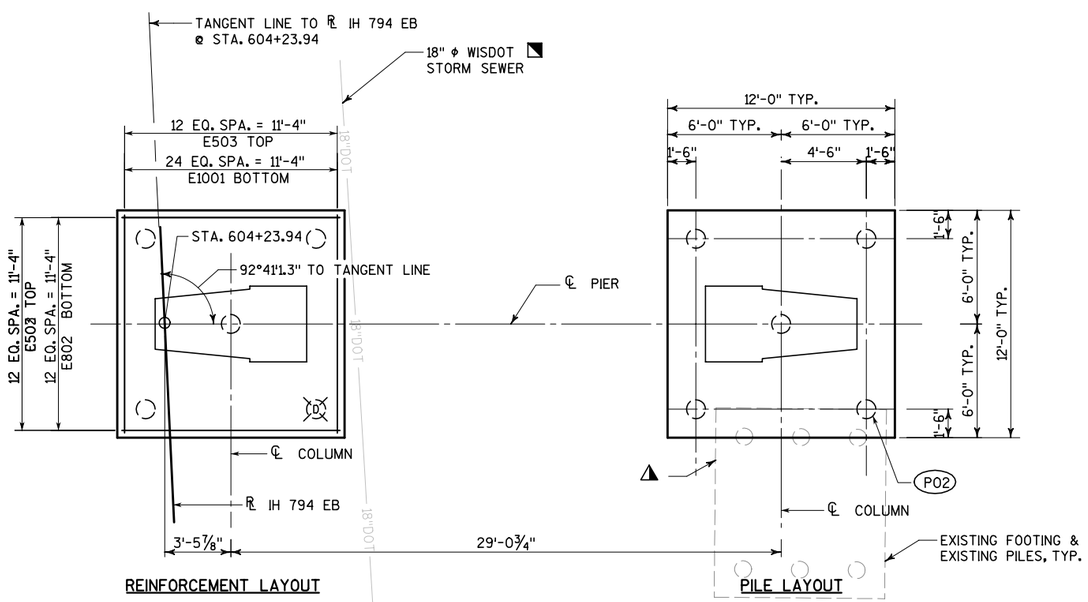


ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)

NOTE: REINFORCEMENT IS SYMMETRIC ABOUT ℄ PIER CAP





FOOTING PLAN

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 215 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 95'.

NOTE - PROPOSED PILES MAY BE ADJUSTED UP TO 6" EACH WAY TO AVOID CONFLICTS WITH EXISTING PILES. IF GREATER ADJUSTMENT IS REQUIRED, CONTACT THE ENGINEER FOR ADDITIONAL INSTRUCTIONS BEFORE PROCEEDING.

LOCATION OF EXISTING PILES IS SHOWN BASED ON AS-BUILT DRAWINGS ONLY. FIELD VERIFY PILE LOCATIONS IMMEDIATELY AFTER EXPOSURE AND NOTIFY THE ENGINEER OF ANY DEVIATIONS NOTED.

D DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

⚠ CUTOFF PILING IN EXIST. FOOTING THAT IS IN THE FOOTPRINT OF THE PROPOSED FOOTING 2'-0" BELOW BOTTOM OF PROPOSED FOOTING. DO NOT INCORPORATE EXIST. PILING INTO PROPOSED FOOTING.

◥ STORM SEWER TO BE REMOVED AS PART OF REMOVAL PLANS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P4-001 REINF. LAYOUT

SHEET 34 OF 396

2902

8

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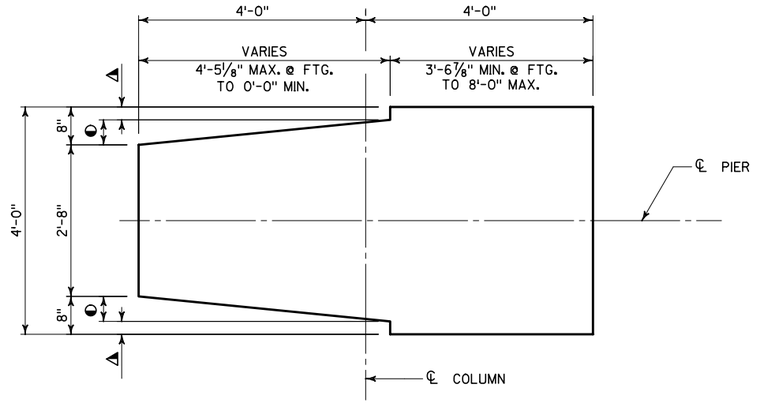
STATE PROJECT NUMBER

1060-05-75

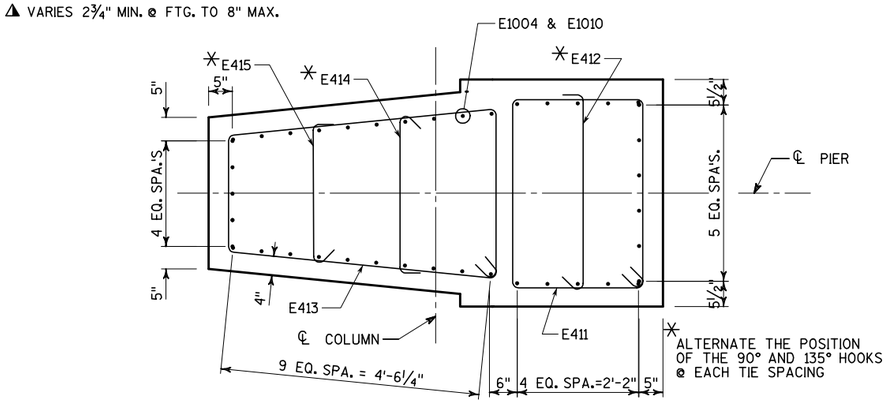


SECTION THRU COLUMN

(SHOWING DIMENSIONS)

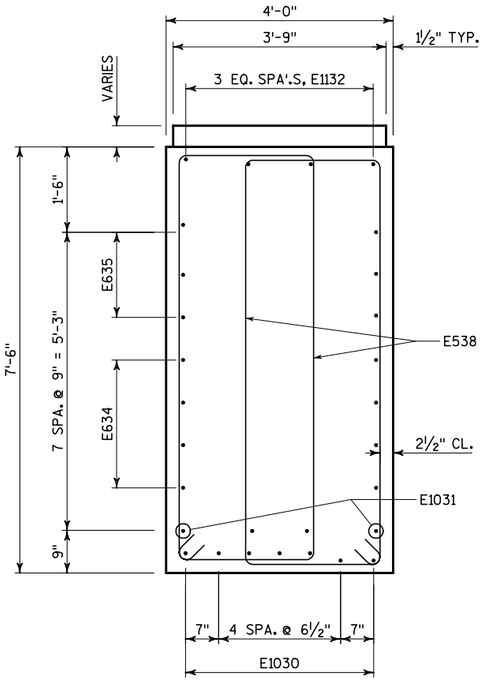
◑ VARIES 5¼" MAX. @ FTG. TO 0" MIN.

◭ VARIES 2¾" MIN. @ FTG. TO 8" MAX.

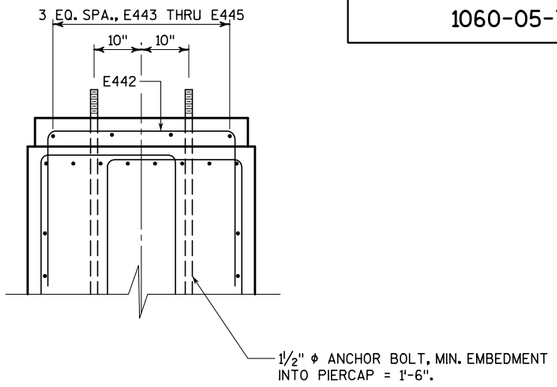


SECTION C-C

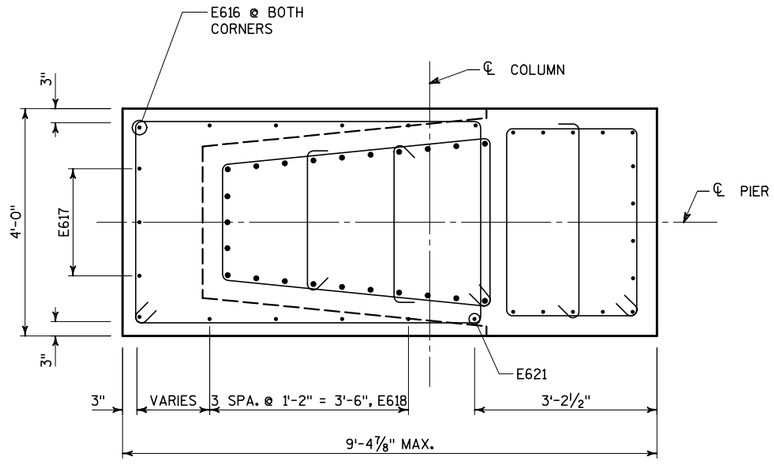
(SHOWING REINFORCEMENT)



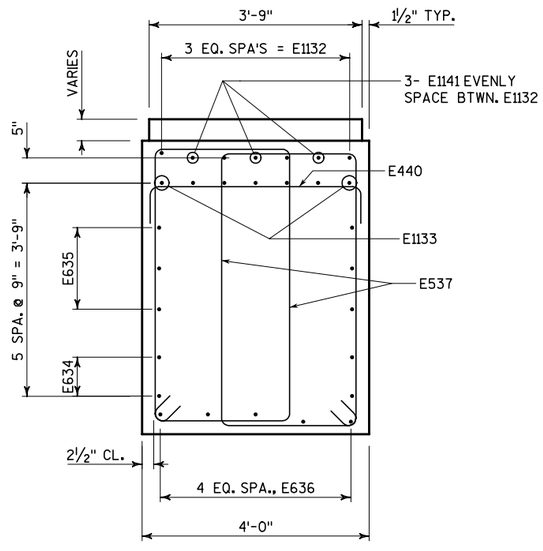
SECTION A-A



SECTION THRU GIRDER SEAT



SECTION D-D



SECTION B-B

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P4-001 DETAILS

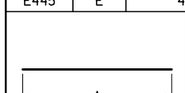
SHEET 35 OF 396

2903

8

STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
E1001		50	11'-6"	2474	1	11'-6"									FOOTING	BOTTOM
E802		26	11'-6"	798	1	11'-6"									FOOTING	BOTTOM
E503		52	11'-6"	624	1	11'-6"									FOOTING	TOP
E1004	E	74	12'-7"	4007	8	11'-1"									FOOTING	DOWEL
E1010	E	74	24'-10"	7908	1	24'-10"									COLUMN	VERTICAL
E411	E	38	11'-10"	300	3	3'-4"	2'-4"								COLUMN	TIES
E412	E	38	4'-0"	102	13	3'-4"									COLUMN	TIES
E413	E	40	15'-1"	403	14	3'-0"	4'-9"	6"							COLUMN	TIES
E414	E	40	3'-4"	89	13	2'-8½"									COLUMN	TIES
E415	E	40	3'-1"	82	13	2'-5"									COLUMN	TIES
E616	E	4	20'-7"	124	1	20'-7"									COLUMN	VERTICAL
E617	E	6	8'-0"	72	1	8'-0"									COLUMN	VERTICAL
E618	E	4 series of 4	15'-4" to 3'-10"	230	1	15'-4" to 3'-10" by 3'-10"									COLUMN	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
E419	E	2 series of 8	18'-7" to 10'-7"	156	3	5'-5½" to 1'-5½" by 6⅞"	3'-7"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
E420	E	2	26'-1"	35	3	9'-2½"	3'-7"								COLUMN	TIES
E621	E	4	18'-6"	111	1	18'-6"									COLUMN	VERTICAL
E1030	E	7	32'-3"	971	16	4'-2"	21'-0"						12.49		CAP	BOTTOM
E1031	E	4	25'-10"	445	4	1'-9½"	22'-11"								CAP	BOTTOM
E1132	E	4	58'-5"	1242	1	58'-5"									CAP	TOP
E1133	E	14	24'-10"	1847	4	1'-11½"	21'-8"								CAP	TOP
E634	E	2 series of 4	32'-5" to 52'-9"	511	1	32'-5" to 52'-9" by 6'-9¼"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
E635	E	2 series of 3	57'-0" to 57'-10"	517	1	57'-0" to 57'-10" by 5"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
E636	E	10	16'-9"	252	1	16'-9"									CAP	BOTTOM @ ENDS
E537	E	4 series of 20	15'-11" to 11'-9"	1156	3	5'-3" to 3'-2" by 1⅜"	2'-5"								CAP	STIRRUPS @ ENDS, BUNDLE AND TAG EACH SERIES SEPARATELY
E538	E	56	19'-7"	1144	3	7'-1"	2'-5"								CAP	STIRRUPS
E539	E	10	7'-0"	73	17	2'-0"	3'-2"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
E440	E	22	4'-8"	69	4	8"	3'-7"								CAP	TIE
E1141	E	6	25'-0"	797	1	25'-0"									CAP	TOP
E442	E	52	9'-1"	316	4	3'-0"	3'-4"								CAP	VERTICAL GIRDER SEATS
E443	E	12	10'-6"	84	1	10'-6"									CAP	HORIZ. GIRDER SEATS
E444	E	4	29'-7"	79	1	29'-7"									CAP	HORIZ. GIRDER SEATS
E445	E	4	3'-7"	10	1	3'-7"									CAP	HORIZ. GIRDER SEATS



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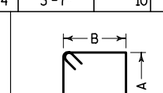

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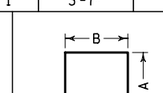

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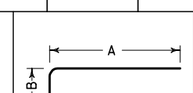
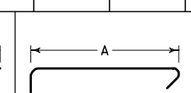
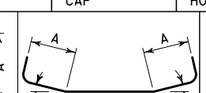


TYPE 8

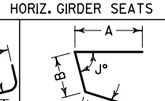


TYPE 13

TYPE 14



TYPE 16



TYPE 17

TOTAL NON-EPOXY REINFORCEMENT WT (LB)	3897
TOTAL EPOXY REINFORCEMENT WT (LB)	23133

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

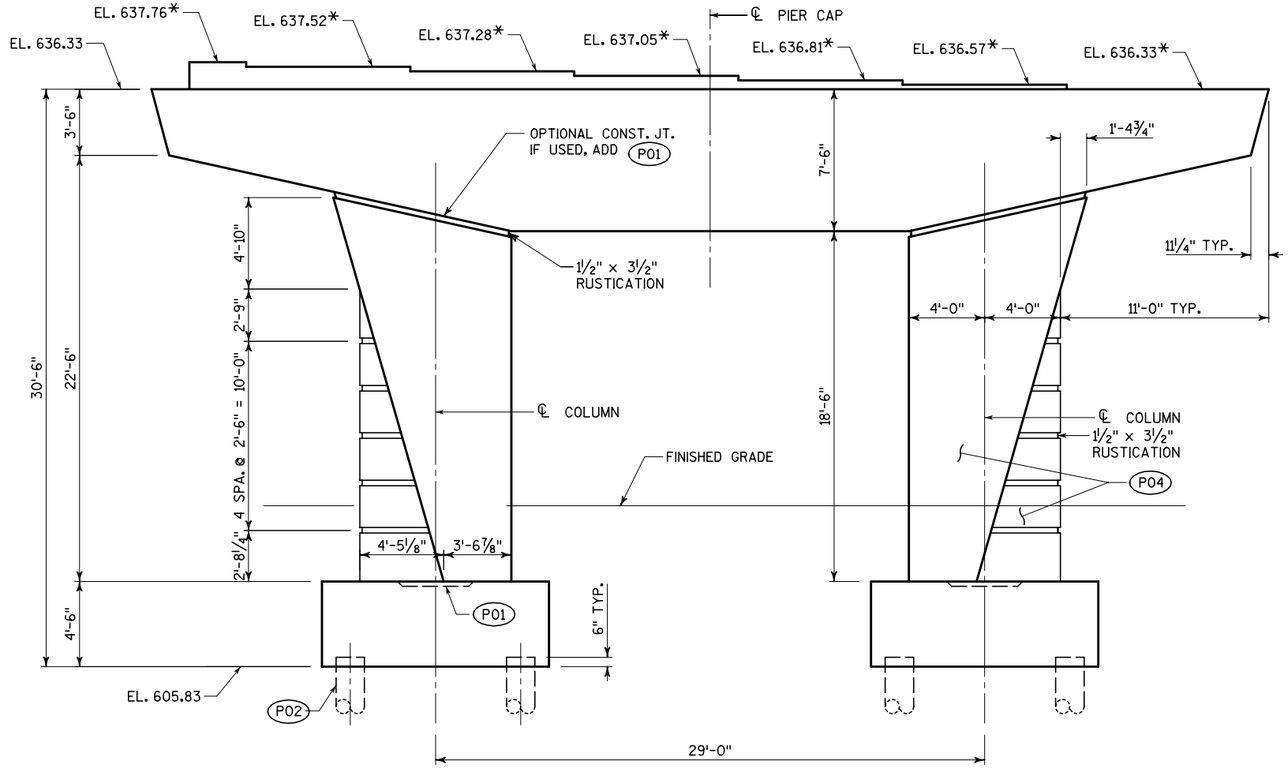
CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER 4-001
REINF. SCHEDULE

SHEET 36 OF 396
2904

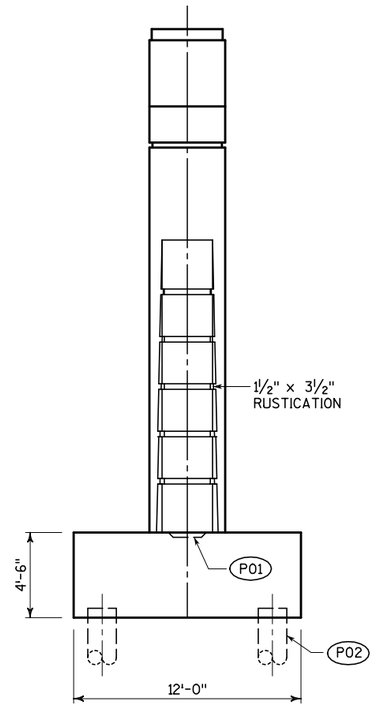
STATE PROJECT NUMBER

1060-05-75

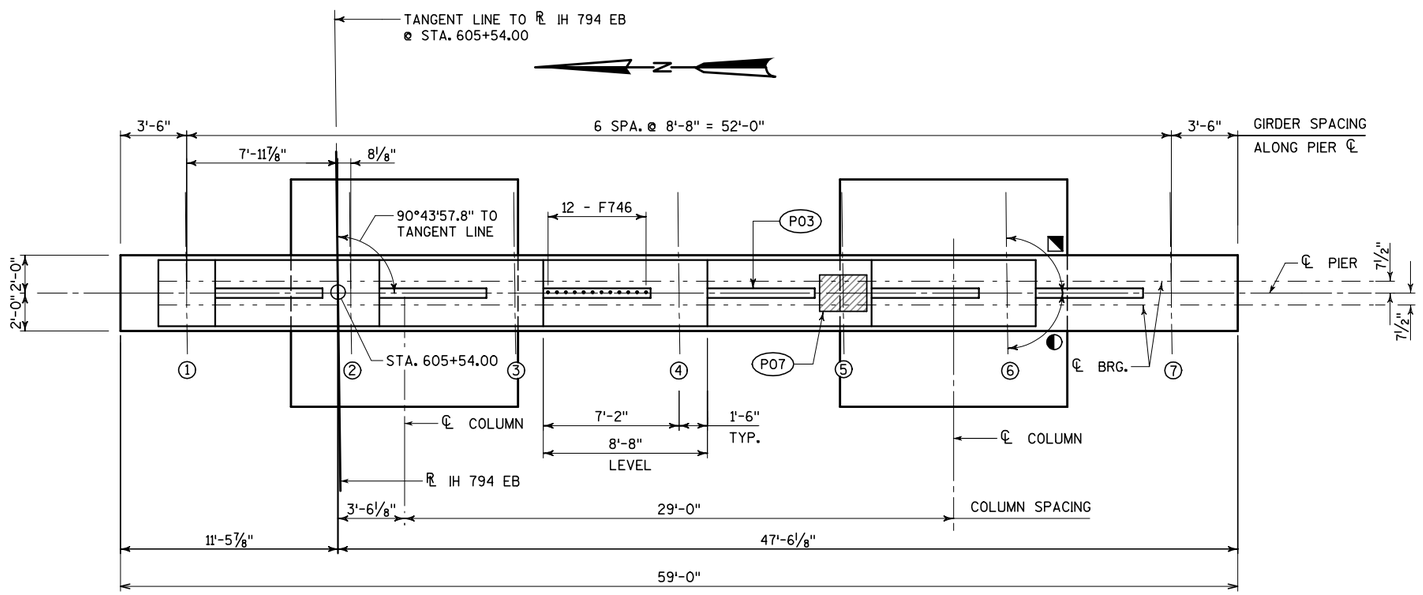


ELEVATION

(LOOKING EAST-SHOWING DIMENSIONS)



END ELEVATION



PLAN

BEARING ANGLE

	LOCATION	ANGLE
◥	GIRDER 1	90°10'27"
	GIRDER 2	90°10'10"
	GIRDER 3	90°09'53"
	GIRDER 4	90°09'38"
	GIRDER 5	90°09'23"
	GIRDER 6	90°09'10"
	GIRDER 7	90°08'56"
◐	GIRDER 1	88°17'43"
	GIRDER 2	88°17'29"
	GIRDER 3	88°17'15"
	GIRDER 4	88°17'01"
	GIRDER 5	88°17'47"
	GIRDER 6	88°17'33"
	GIRDER 7	88°17'19"

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 190 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 95'.

(P03) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 2" X 6".

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 383.

(P07) ½" THICK ELASTOMERIC BEARING PAD, SEE SHEET 360 FOR DETAILS.

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P5-001

SHEET 37 OF 396

2905

8

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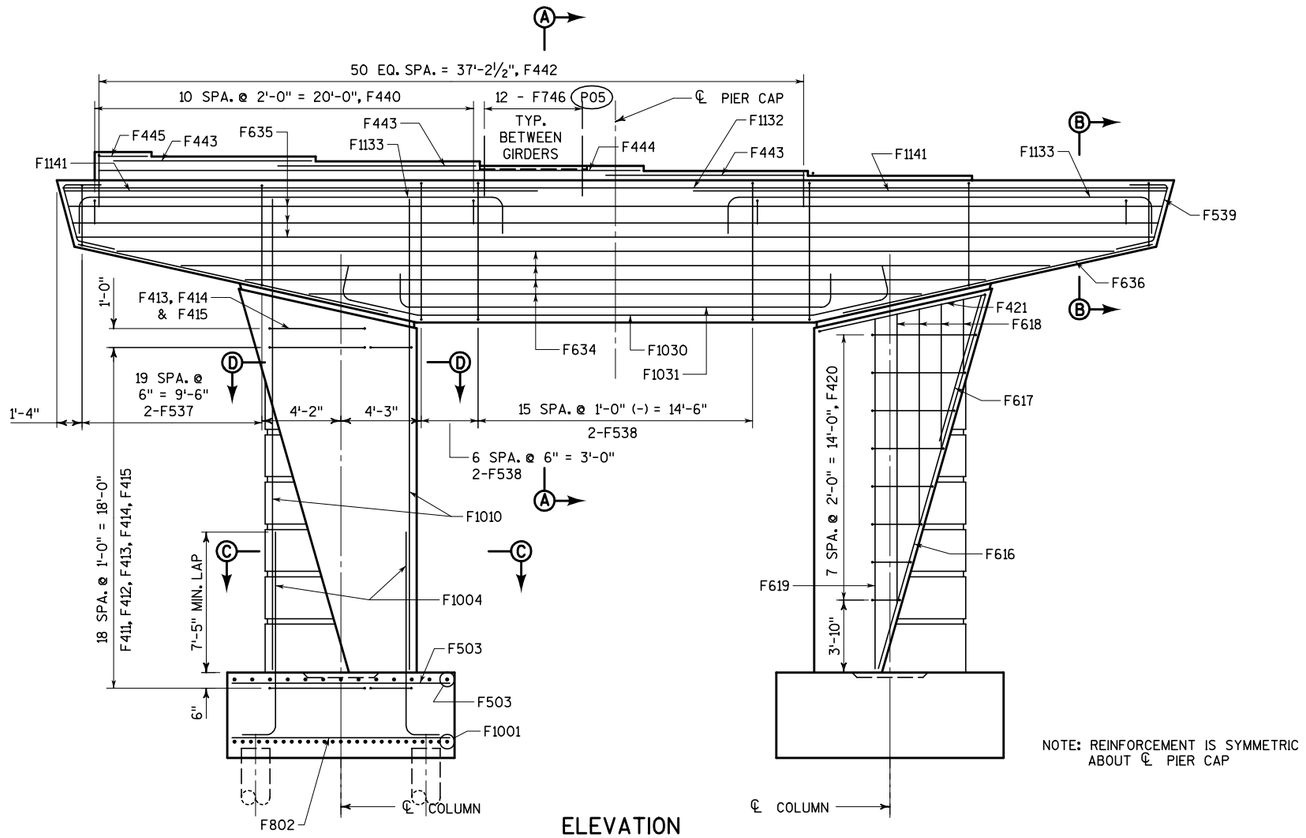
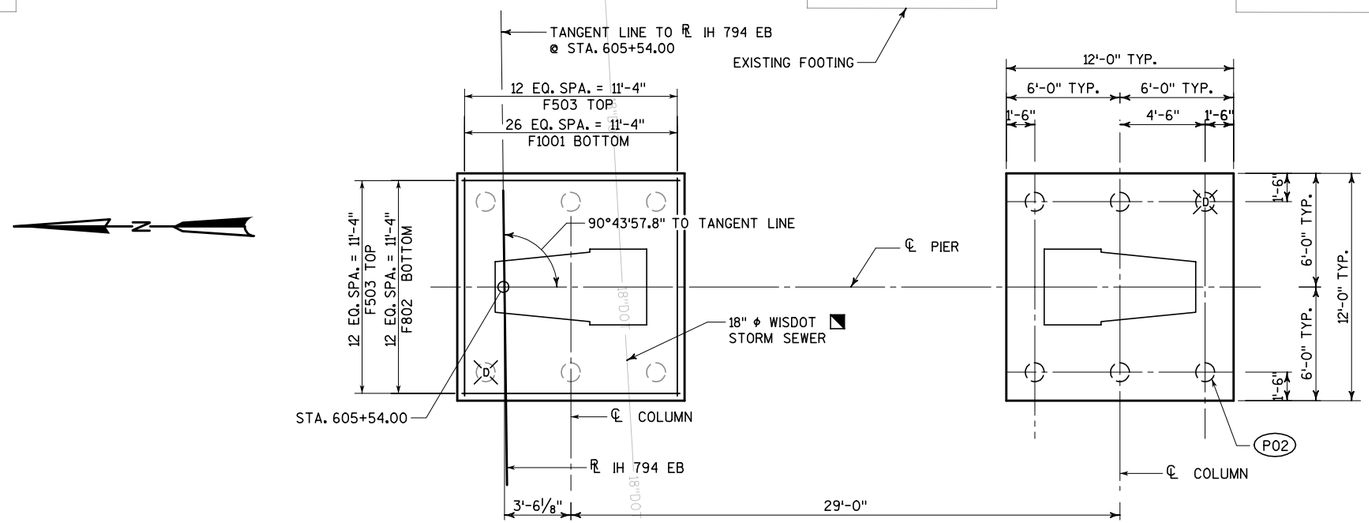
STATE PROJECT NUMBER
1060-05-75



NOTE: REINFORCEMENT IS SYMMETRIC ABOUT ℄ PIER CAP

ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)



REINFORCEMENT LAYOUT

PILE LAYOUT

FOOTING PLAN

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 190 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 95'.

(P05) F746 BARS BETWEEN GIRDER SEATS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. EMBED 1'-7".

(D) DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

◥ STORM SEWER TO BE REMOVED AS PART OF REMOVAL PLANS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P5-001 REINF. LAYOUT

SHEET 38 OF 396

2906

8

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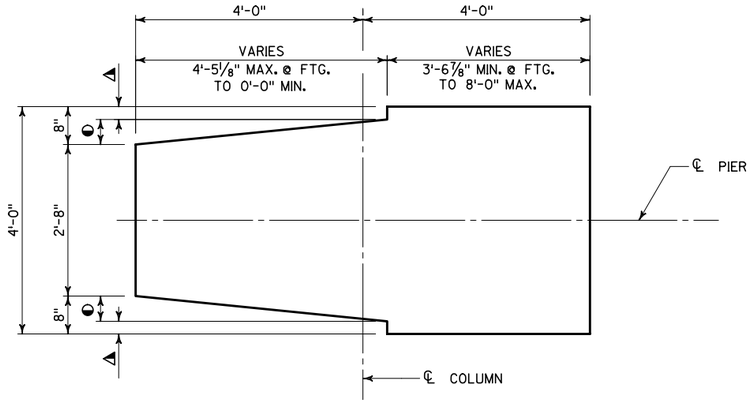
STATE PROJECT NUMBER
1060-05-75

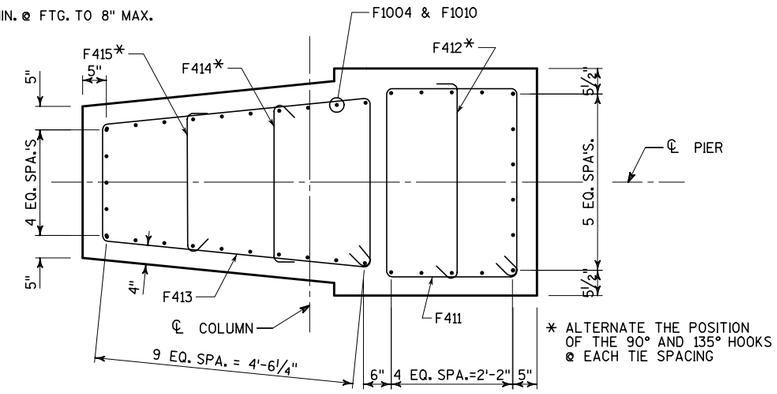


SECTION THRU COLUMN

(SHOWING DIMENSIONS)

◑ VARIES 5¼" MAX. @ FTG. TO 0" MIN.

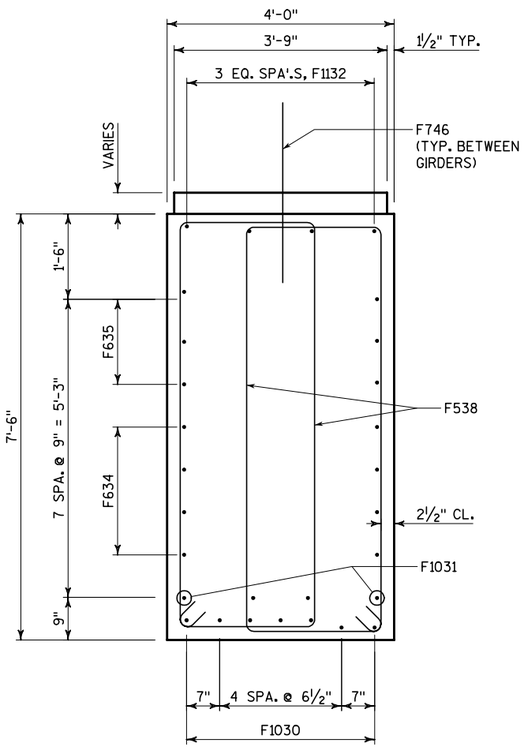
◭ VARIES 2¾" MIN. @ FTG. TO 8" MAX.



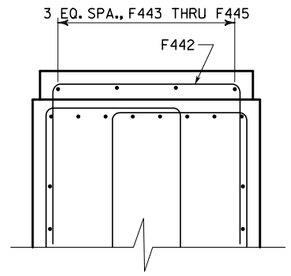
* ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS @ EACH TIE SPACING

SECTION C-C

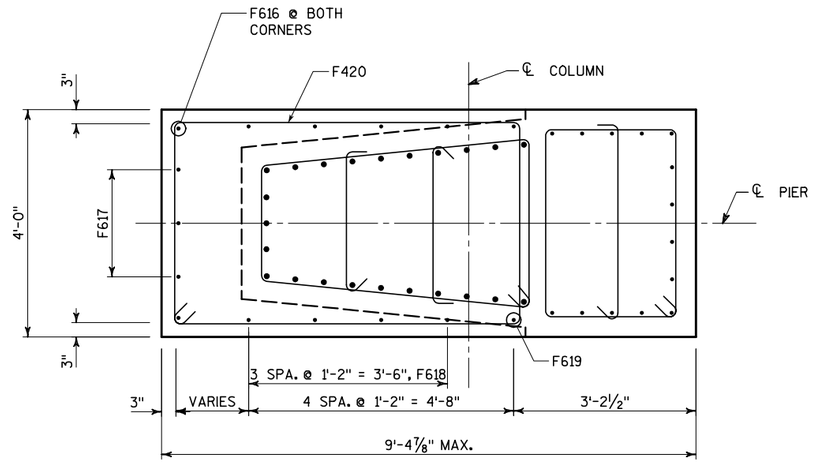
(SHOWING REINFORCEMENT)



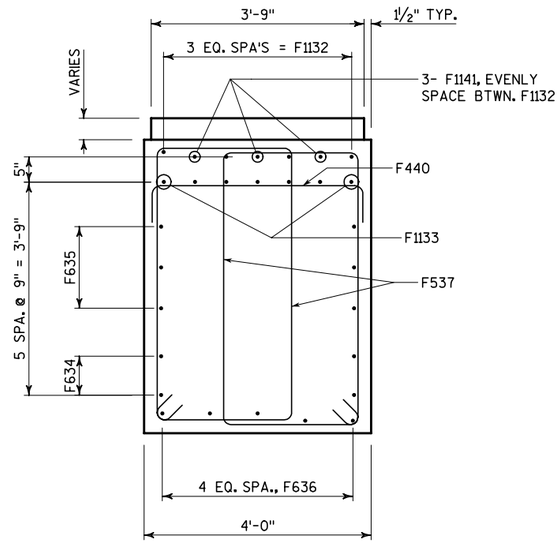
SECTION A-A



SECTION THRU GIRDER SEAT



SECTION D-D



SECTION B-B

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P5-001
DETAILS

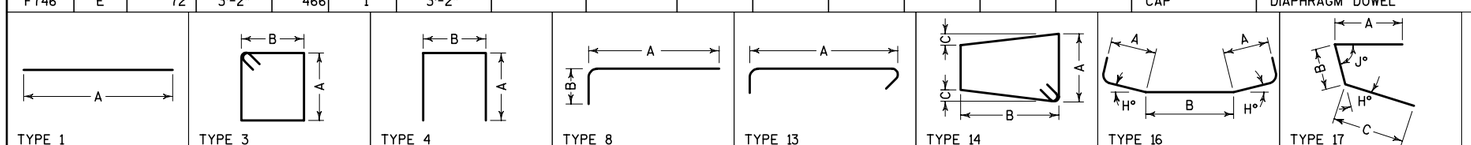
SHEET 39 OF 396

2907

8

STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
F1001		54	11'-6"	2672	1	11'-6"									FOOTING	BOTTOM
F802		26	11'-6"	798	1	11'-6"									FOOTING	BOTTOM
F503		52	11'-6"	624	1	11'-6"									FOOTING	TOP
F1004	E	74	12'-7"	4007	8	11'-1"									FOOTING	DOWEL
F1010	E	74	24'-10"	7908	1	24'-10"									COLUMN	VERTICAL
F411	E	38	11'-10"	300	3	3'-4"	2'-4"								COLUMN	TIES
F412	E	38	4'-0"	102	13	3'-4"									COLUMN	TIES
F413	E	40	15'-1"	403	14	3'-0"	4'-9"	6"							COLUMN	TIES
F414	E	40	3'-4"	89	13	2'-8½"									COLUMN	TIES
F415	E	40	3'-1"	82	13	2'-5"									COLUMN	TIES
F616	E	4	20'-7"	124	1	20'-7"									COLUMN	VERTICAL
F617	E	6	8'-0"	72	1	8'-0"									COLUMN	VERTICAL
F618	E	4 series of 4	15'-4" to 3'-10"	230	1	15'-4" to 3'-10" by 3'-10"									COLUMN	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
F619	E	4	18'-6"	111	1	18'-6"									COLUMN	VERTICAL
F420	E	2 series of 8	18'-7" to 10'-7"	156	3	5'-5½" to 1'-5½" by 6⅞"	3'-7"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
F421	E	2	26'-1"	35	3	9'-2½"	3'-7"								COLUMN	TIES
F1030	E	7	32'-2"	969	16	4'-2"	20'-11"						12.49		CAP	BOTTOM
F1031	E	4	25'-9"	443	4	1'-9½"	22'-10"								CAP	BOTTOM
F1132	E	4	58'-4"	1240	1	58'-4"									CAP	TOP
F1133	E	14	24'-10"	1847	4	1'-11½"	21'-8"								CAP	CAPS
F634	E	2 series of 4	32'-4" to 52'-8"	511	1	32'-4" to 52'-8" by 6'-9¼"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
F635	E	2 series of 3	56'-11" to 57'-9"	517	1	56'-11" to 57'-9" by 5"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
F636	E	10	16'-9"	252	1	16'-9"									CAP	BOTTOM @ ENDS
F537	E	4 series of 20	15'-11" to 11'-9"	1156	3	5'-3" to 3'-2" by 1⅜"	2'-5"								CAP	STIRRUPS @ ENDS, BUNDLE AND TAG EACH SERIES SEPARATELY
F538	E	56	19'-7"	1144	3	7'-1"	2'-5"								CAP	STIRRUPS
F539	E	10	7'-0"	73	17	2'-0"	3'-2"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
F440	E	22	4'-8"	69	4	8"	3'-7"								CAP	TIE
F1141	E	6	25'-0"	797	1	25'-0"									CAP	CAPS
F442	E	51	8'-9"	298	4	2'-10"	3'-4"								CAP	VERTICAL GIRDER SEATS
F443	E	12	10'-5"	84	1	10'-5"									CAP	HORIZ. GIRDER SEATS
F444	E	4	28'-7"	76	1	28'-7"									CAP	HORIZ. GIRDER SEATS
F445	E	4	2'-7"	7	1	2'-7"									CAP	HORIZ. GIRDER SEATS
F746	E	72	3'-2"	466	1	3'-2"									CAP	DIAPHRAGM DOWEL



TYPE 1 | TYPE 3 | TYPE 4 | TYPE 8 | TYPE 13 | TYPE 14 | TYPE 16 | TYPE 17

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

TOTAL NON-EPOXY REINFORCEMENT	WT (LB)	4095
TOTAL EPOXY REINFORCEMENT	WT (LB)	23568

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

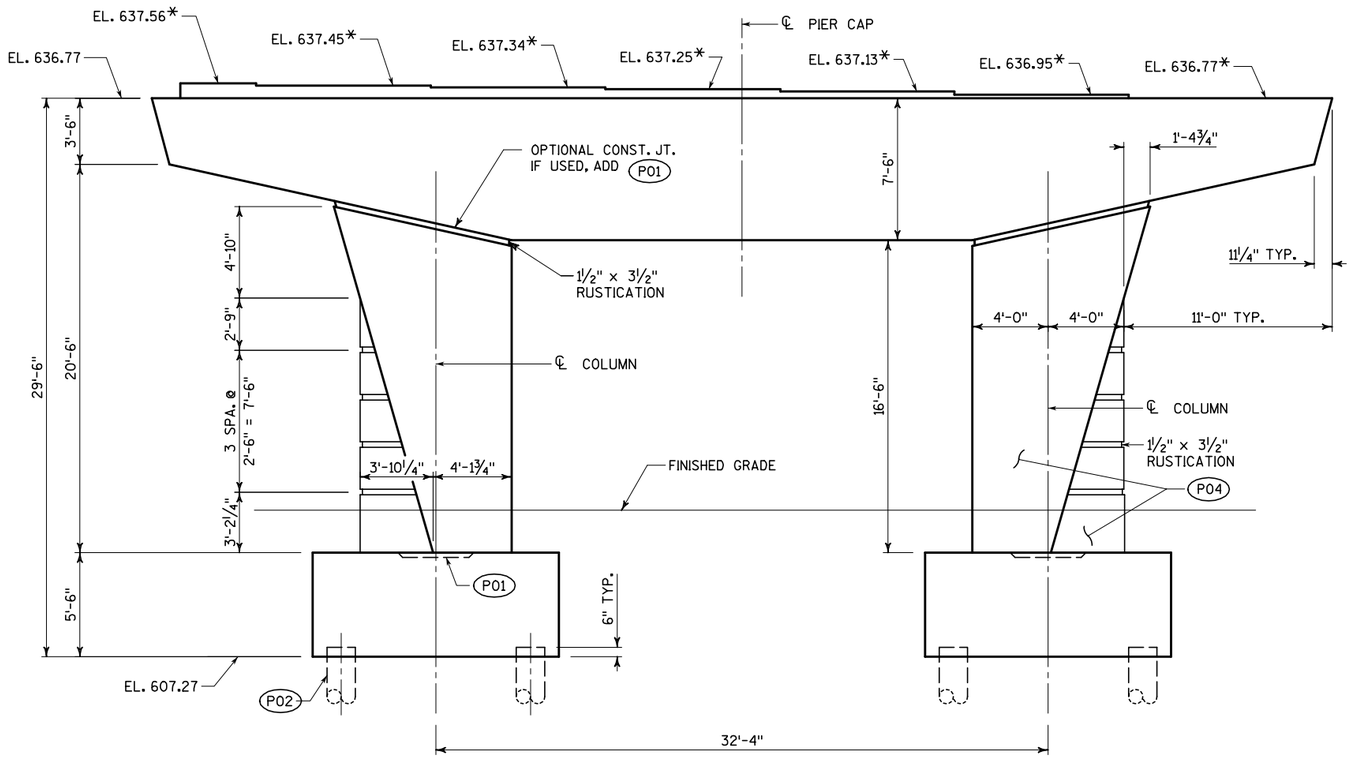
PIER P5-001
REINF. SCHEDULE

SHEET 40 OF 396
2908

8

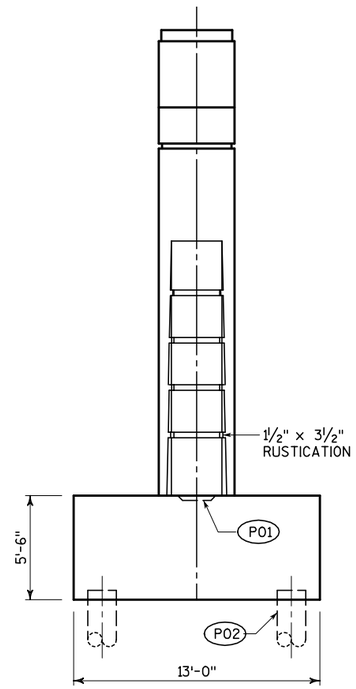
STATE PROJECT NUMBER

1060-05-75



ELEVATION

(LOOKING EAST-SHOWING DIMENSIONS)



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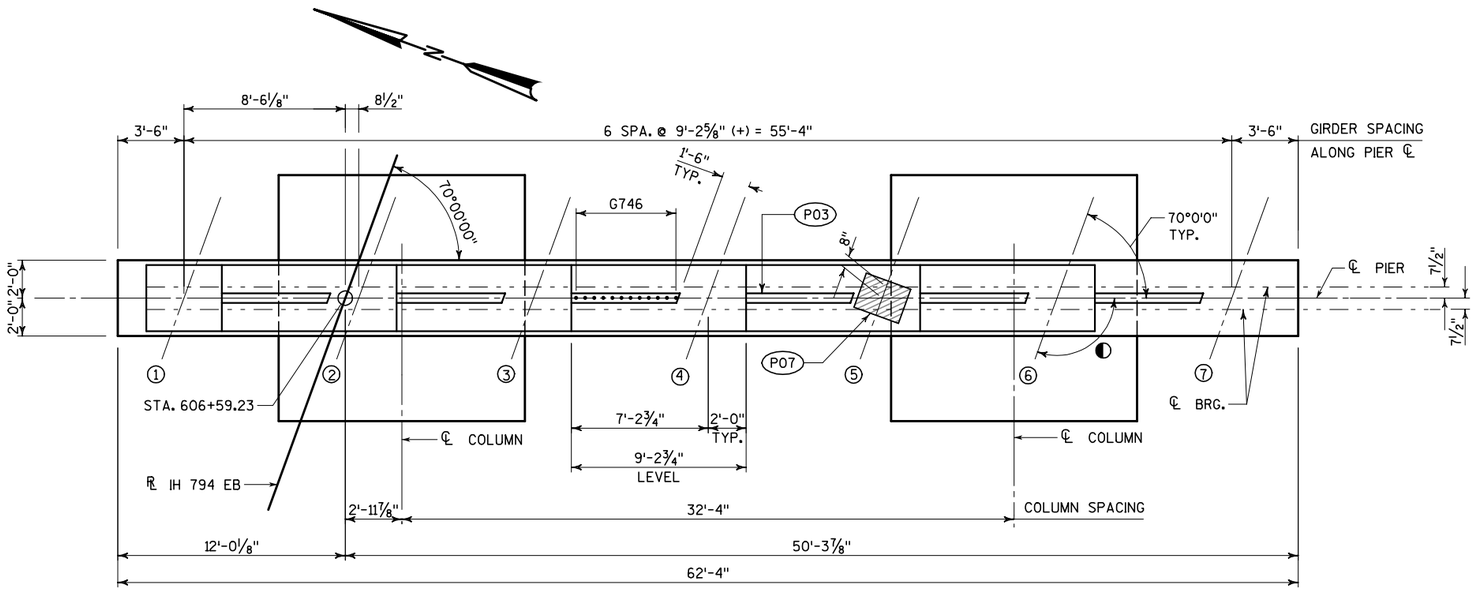

PLAN

BEARING ANGLE

	LOCATION	ANGLE
◐	GIRDER 1	109°49'33"
	GIRDER 2	109°49'50"
	GIRDER 3	109°50'07"
	GIRDER 4	109°50'22"
	GIRDER 5	109°50'37"
	GIRDER 6	109°50'50"
	GIRDER 7	109°51'04"

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 205 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 95'.

(P03) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 2" X 6".

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 383.

(P07) ½" THICK ELASTOMERIC BEARING PAD, SEE SHEET 360 FOR DETAILS.

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P6-001

SHEET 41 OF 396

2909

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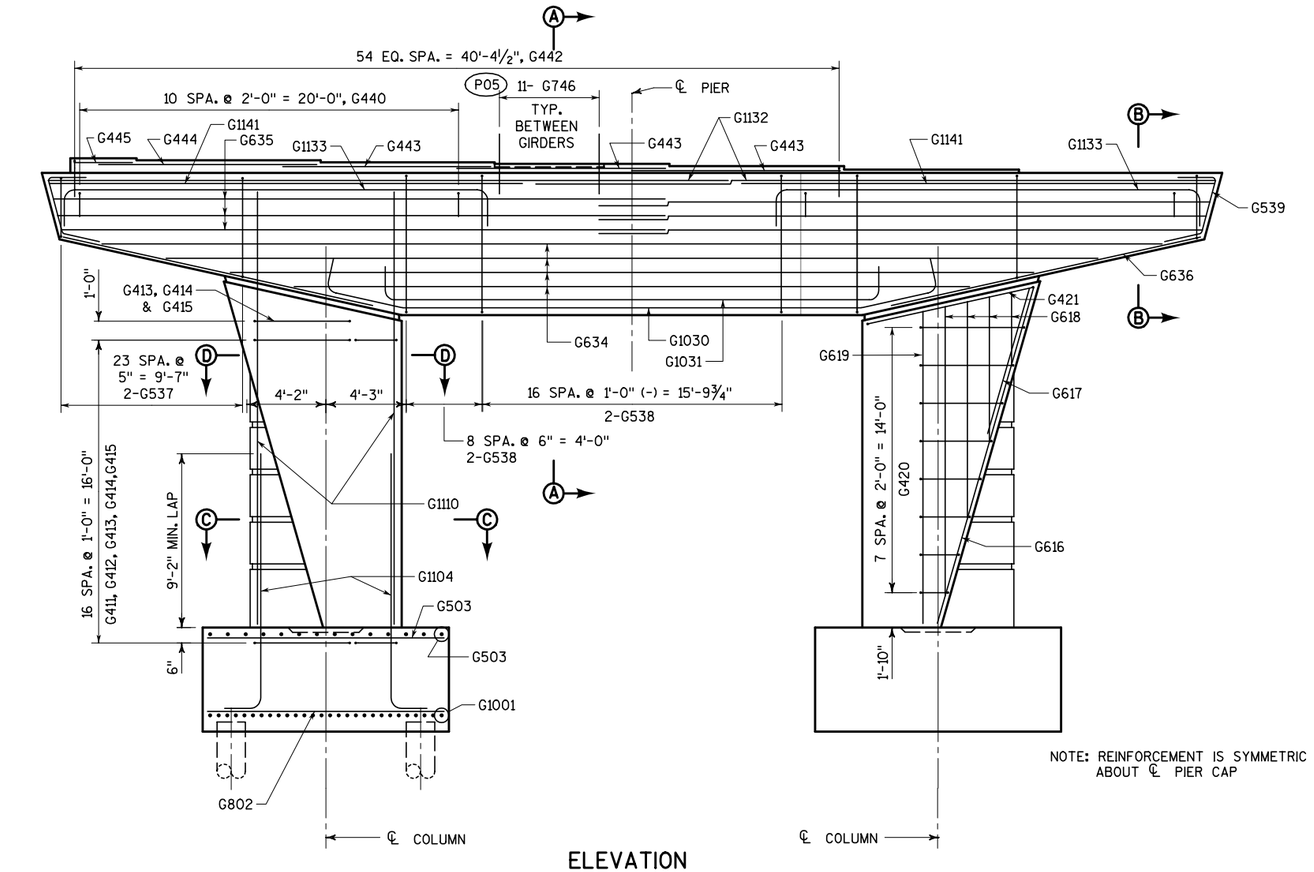
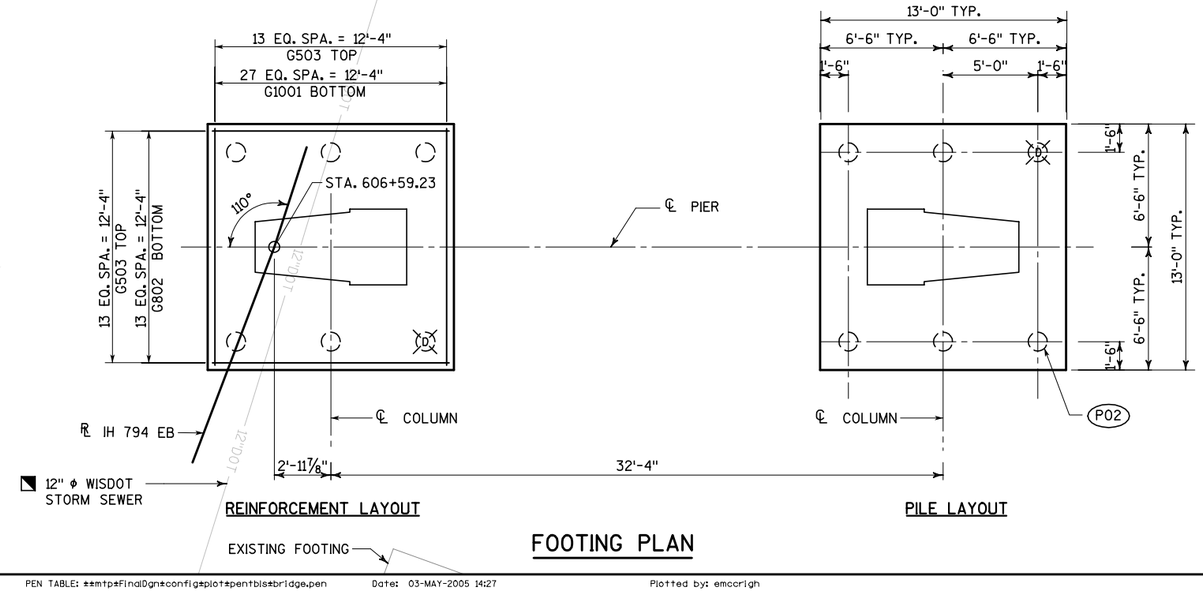
STATE PROJECT NUMBER
1060-05-75



NOTE: REINFORCEMENT IS SYMMETRIC ABOUT ℄ PIER CAP

ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)



NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 205 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 95'.

NOTE - PROPOSED PILES MAY BE ADJUSTED UP TO 6" EACH WAY TO AVOID CONFLICTS WITH EXISTING PILES. IF GREATER ADJUSTMENT IS REQUIRED, CONTACT THE ENGINEER FOR ADDITIONAL INSTRUCTIONS BEFORE PROCEEDING.

LOCATION OF EXISTING PILES IS SHOWN BASED ON AS-BUILT DRAWINGS ONLY. FIELD VERIFY PILE LOCATIONS IMMEDIATELY AFTER EXPOSURE AND NOTIFY THE ENGINEER OF ANY DEVIATIONS NOTED.

(P05) G746 BARS AT 6 EQ. SPA. BETWEEN BEAM SEATS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. EMBED 1'-7".

(D) DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

◥ STORM SEWER TO BE REMOVED AS PART OF REMOVAL PLANS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P6-001
REINF. LAYOUT

SHEET 42 OF 396
2910

8

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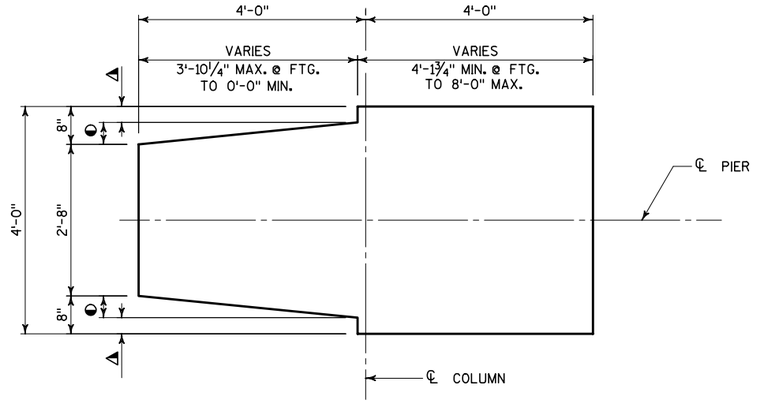
STATE PROJECT NUMBER
1060-05-75

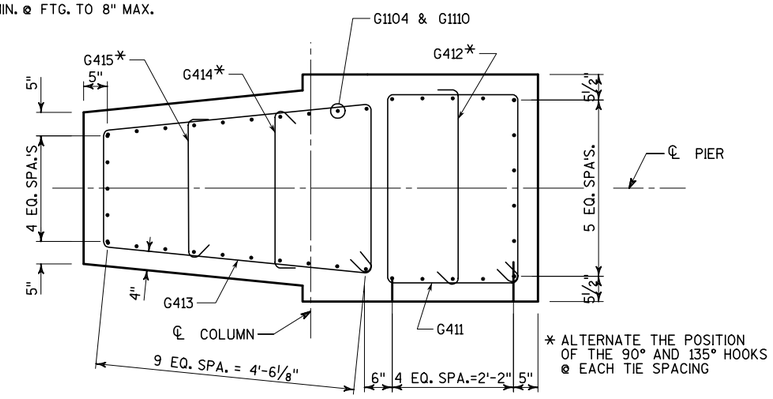


SECTION THRU COLUMN

(SHOWING DIMENSIONS)

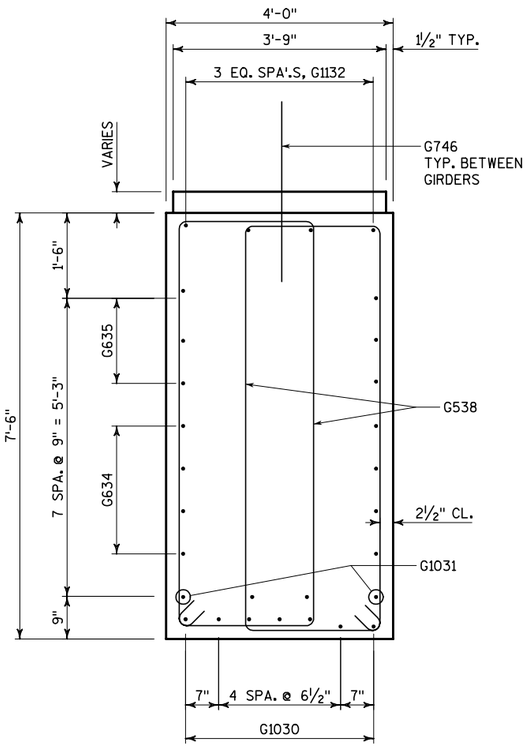
◑ VARIES 4⅝" MAX. @ FTG. TO 0" MIN.

◭ VARIES 3⅜" MIN. @ FTG. TO 8" MAX.

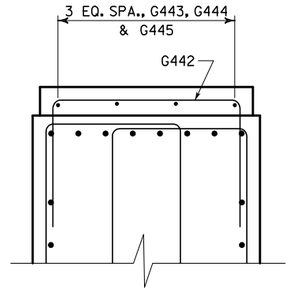


SECTION C-C

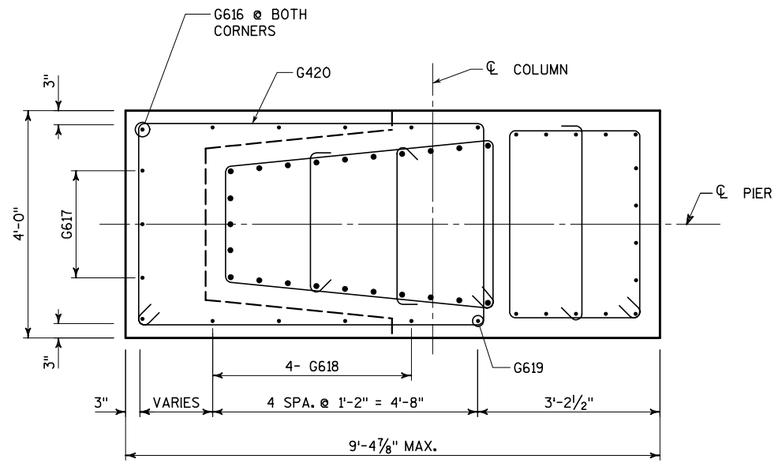
(SHOWING REINFORCEMENT)



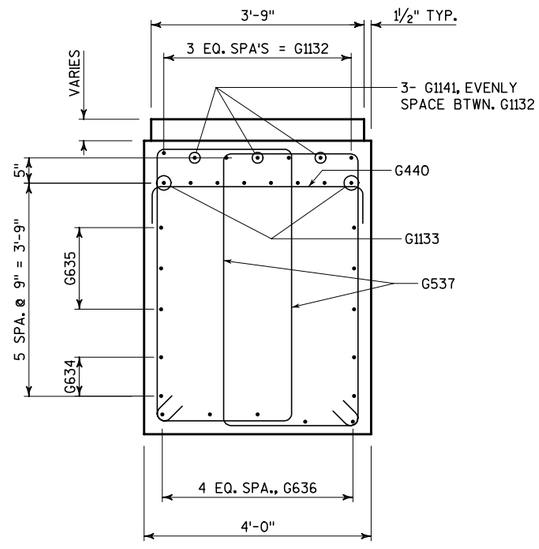
SECTION A-A



SECTION THRU GIRDER SEAT



SECTION D-D



SECTION B-B

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P6-001 DETAILS

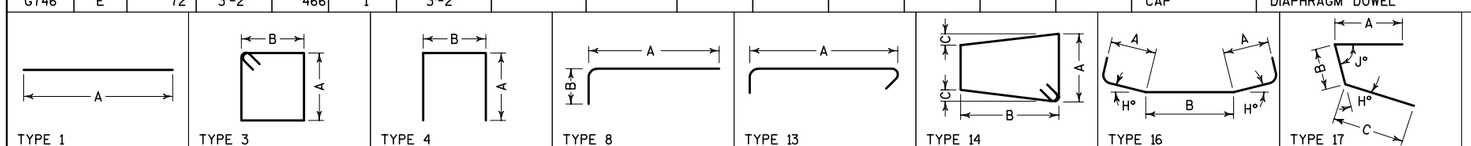
SHEET 43 OF 396

2911

8

STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
G1001		56	12'-6"	3012	1	12'-6"									FOOTING	BOTTOM
G802		28	12'-6"	935	1	12'-6"									FOOTING	BOTTOM
G503		56	12'-6"	730	1	12'-6"									FOOTING	TOP
G1104	E	74	15'-5"	6062	8	13'-10"									FOOTING	DOWEL
G1110	E	74	22'-10"	8978	1	22'-10"									COLUMN	VERTICAL
G411	E	34	11'-10"	269	3	3'-4"	2'-4"								COLUMN	TIES
G412	E	34	4'-0"	91	13	3'-4"									COLUMN	TIES
G413	E	36	15'-1"	363	14	3'-0"	4'-9"	6"							COLUMN	TIES
G414	E	36	3'-4"	80	13	2'-8½"									COLUMN	TIES
G415	E	36	3'-1"	74	13	2'-5"									COLUMN	TIES
G616	E	4	18'-6"	111	1	18'-6"									COLUMN	VERTICAL
G617	E	6	8'-0"	72	1	8'-0"									COLUMN	VERTICAL
G618	E	4 series of 4	15'-4" to 3'-10"	230	1	15'-4" to 3'-10" by 3'-10"									COLUMN	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
G619	E	4	16'-6"	99	1	16'-6"									COLUMN	VERTICAL
G420	E	2 series of 8	18'-7" to 10'-7"	156	3	5'-5½" to 1'-5½" by 6⅞"	3'-7"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
G421	E	2	26'-1"	35	3	9'-2½"	3'-7"								COLUMN	TIES
G1030	E	7	35'-6"	1069	16	4'-2"	24'-3"						12.49		CAP	BOTTOM
G1031	E	4	29'-1"	501	4	1'-9½"	26'-2"								CAP	BOTTOM
G1132	E	8	35'-11"	1527	1	35'-11"									CAP	TOP
G1133	E	16	24'-10"	2111	4	1'-11½"	21'-8"								CAP	TOP
G634	E	2 series of 4	35'-8" to 56'-0"	551	1	35'-8" to 56'-0" by 6'-9¼"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
G635	E	4 series of 3	31'-11" to 32'-3"	578	1	31'-11" to 32'-3" by 2"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
G636	E	10	16'-9"	252	1	16'-9"									CAP	BOTTOM @ ENDS
G537	E	4 series of 24	15'-10" to 11'-7"	1375	3	5'-2½" to 3'-1" by ⅛"	2'-5"								CAP	STIRRUPS @ ENDS, BUNDLE AND TAG EACH SERIES SEPARATELY
G538	E	66	19'-7"	1348	3	7'-1"	2'-5"								CAP	STIRRUPS
G539	E	10	7'-0"	73	17	2'-0"	3'-2"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
G440	E	22	4'-8"	69	4	8"	3'-7"								CAP	TIE
G1141	E	6	25'-0"	797	1	25'-0"									CAP	TOP
G442	E	55	7'-7"	279	4	2'-3"	3'-4"								CAP	VERTICAL GIRDER SEATS
G443	E	12	11'-0"	88	1	11'-0"									CAP	
G444	E	4	11'-6"	31	1	11'-6"									CAP	HORIZ. GIRDER SEATS
G445	E	4	3'-1"	8	1	3'-1"									CAP	HORIZ. GIRDER SEATS
G746	E	72	3'-2"	466	1	3'-2"									CAP	DIAPHRAGM DOWEL



TYPE 1 | TYPE 3 | TYPE 4 | TYPE 8 | TYPE 13 | TYPE 14 | TYPE 16 | TYPE 17

TOTAL NON-EPOXY REINFORCEMENT	WT (LB)	4677
TOTAL EPOXY REINFORCEMENT	WT (LB)	27742

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

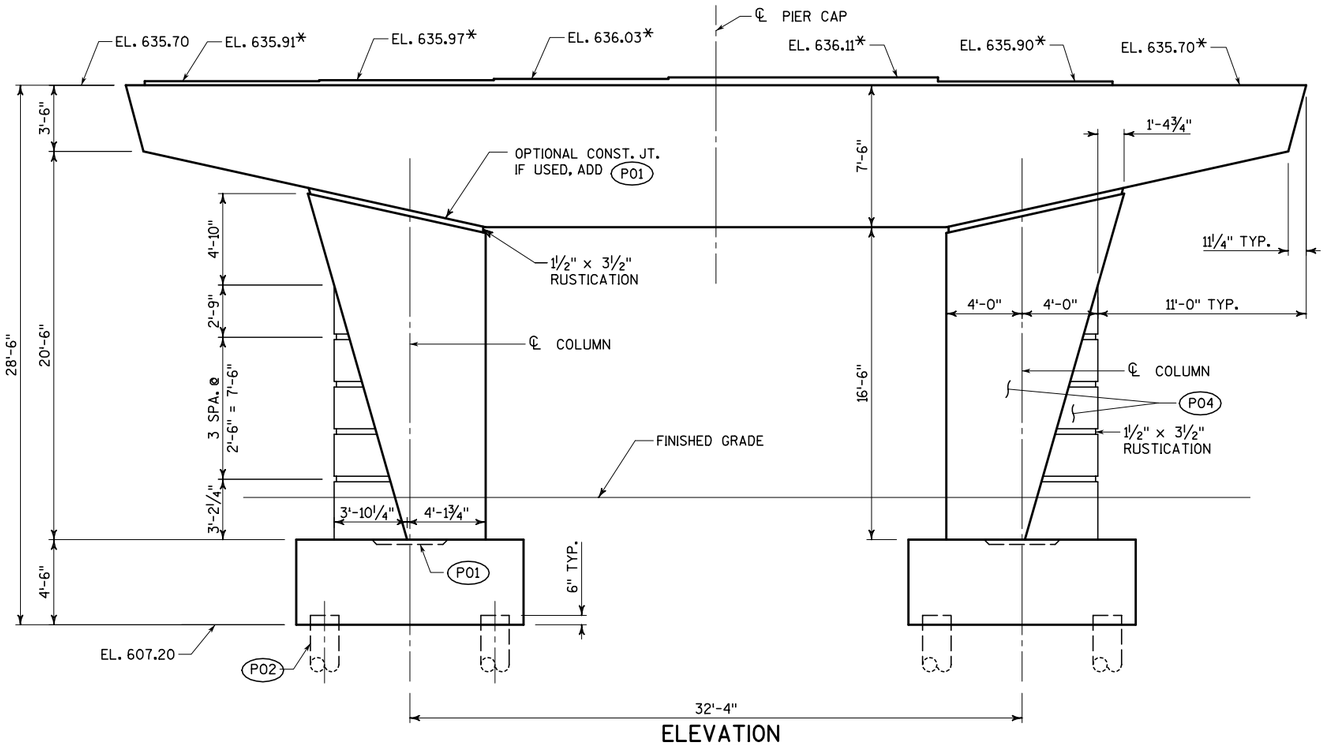
CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P6-001
REINF. SCHEDULE

SHEET 44 OF 396
2912

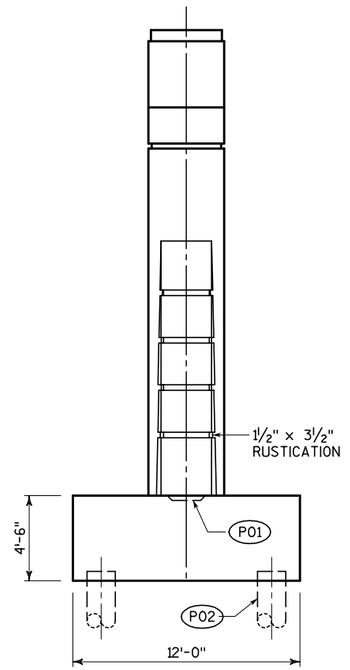
STATE PROJECT NUMBER

1060-05-75



ELEVATION

(LOOKING EAST-SHOWING DIMENSIONS)



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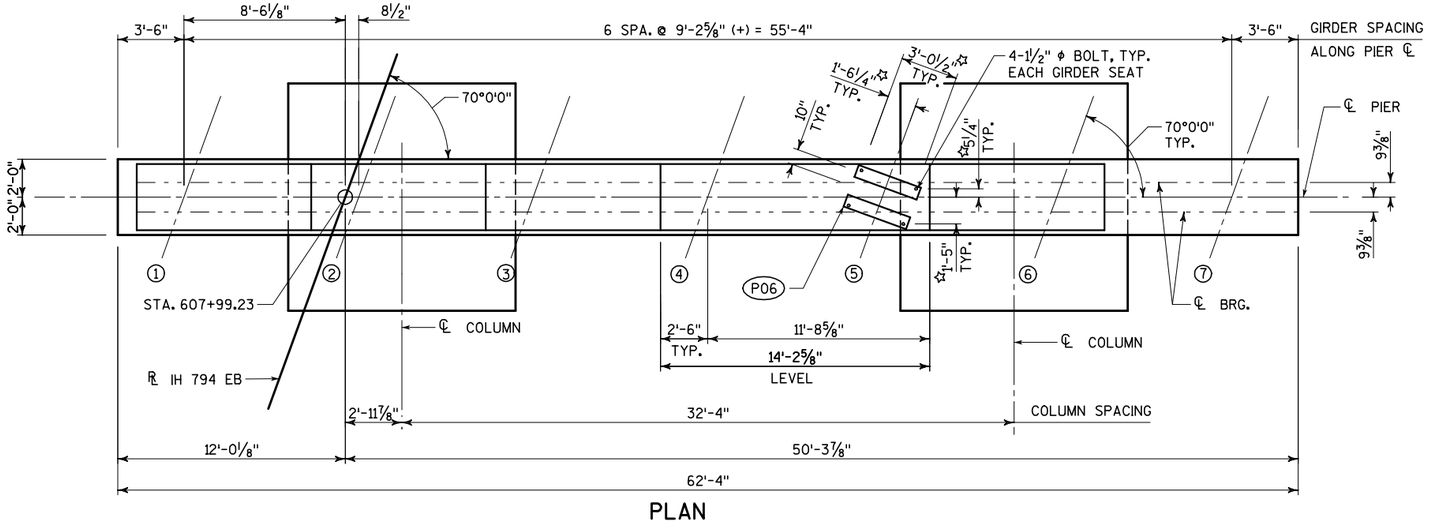


PLAN

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 200 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 95'.

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 383.

(P06) 1½" THICK MASONRY PLATE, SEE "PRESTRESSED GIRDER BEARINGS" SHEET FOR DETAILS.

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

☆ DIMENSIONS ARE GIVEN TO THE ℄ OF ANCHOR BOLTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

PIER P7-001

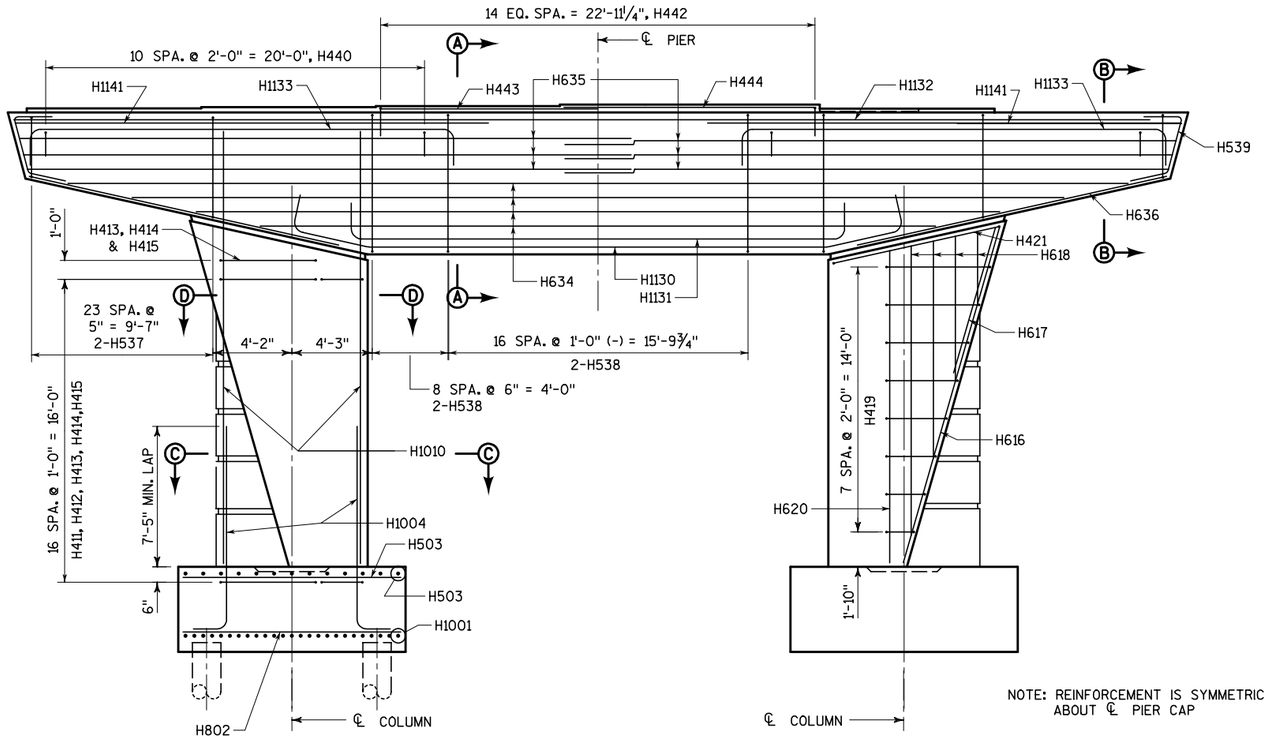
SHEET 45 OF 396

2913

8

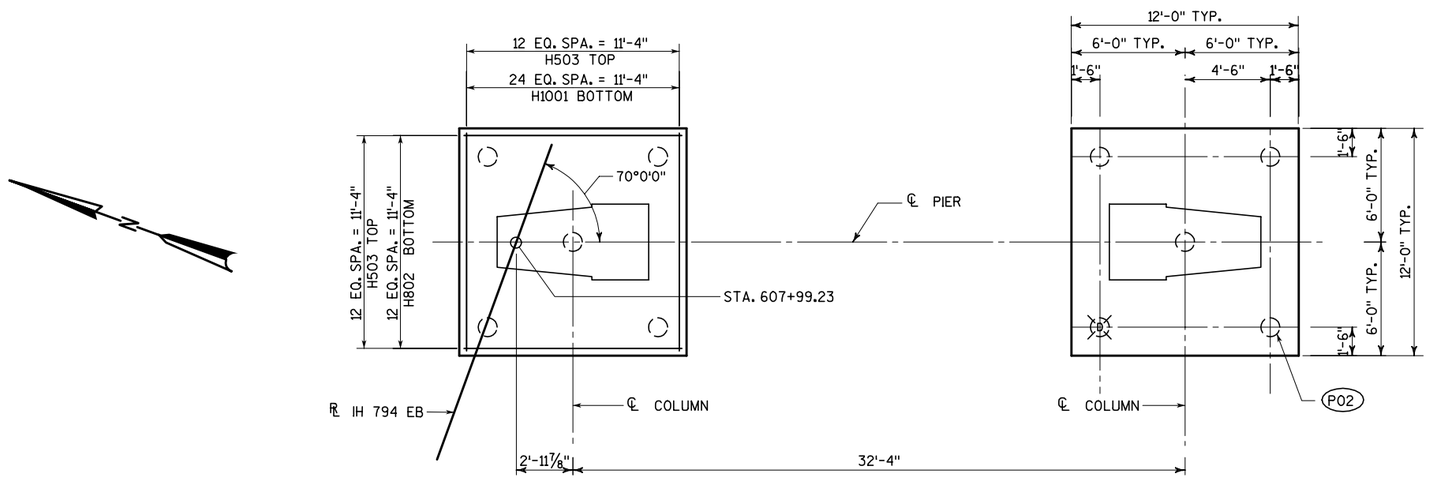
STATE PROJECT NUMBER

1060-05-75



ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)



REINFORCEMENT LAYOUT

PILE LAYOUT

FOOTING PLAN

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 200 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 95'.

(D) DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P7-001
REINF. LAYOUT

SHEET 46 OF 396

2914

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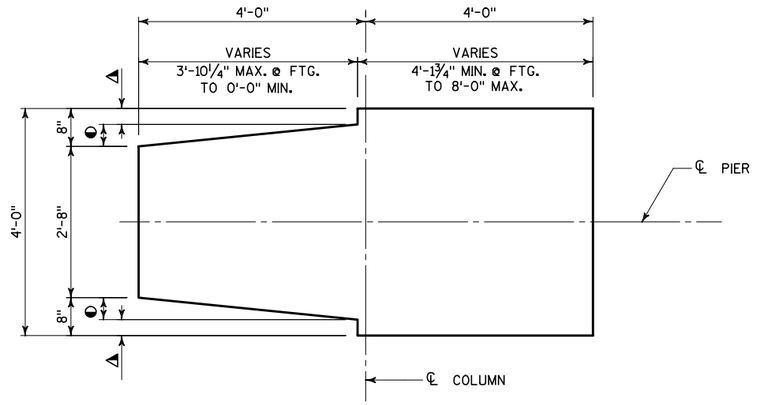
STATE PROJECT NUMBER

1060-05-75

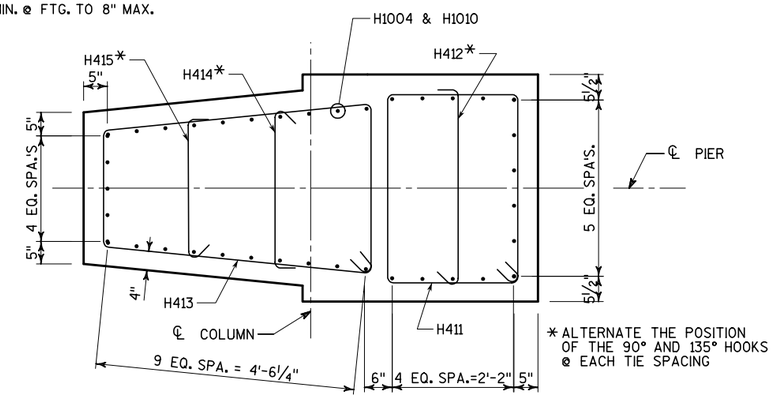


SECTION THRU COLUMN

(SHOWING DIMENSIONS)

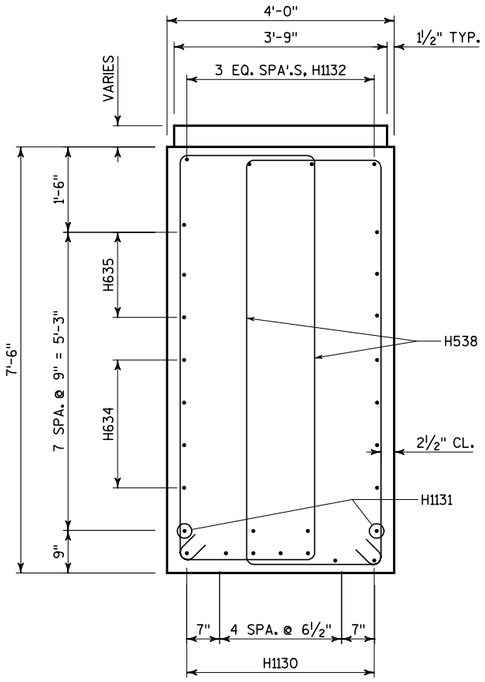
◑ VARIES 4⅝" MAX. @ FTG. TO 0" MIN.

◭ VARIES 3⅜" MIN. @ FTG. TO 8" MAX.

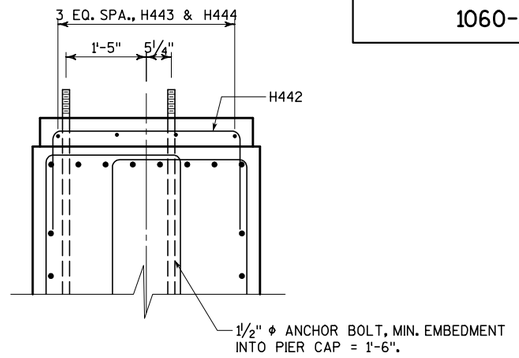


SECTION C-C

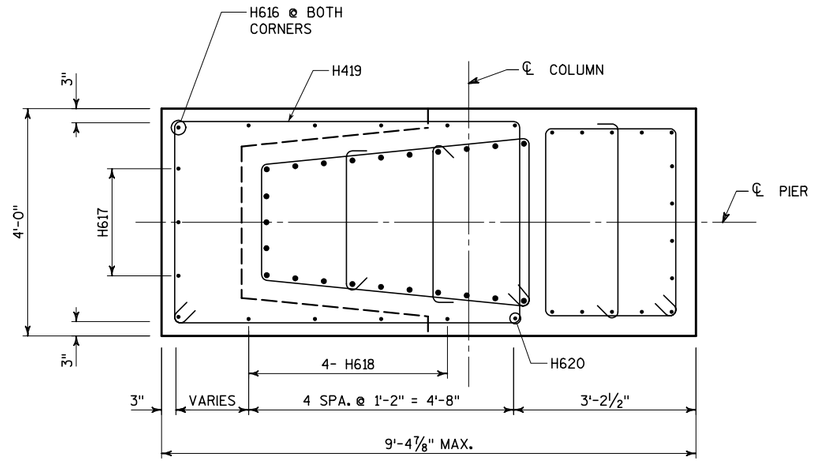
(SHOWING REINFORCEMENT)



SECTION A-A



SECTION THRU GIRDER SEAT



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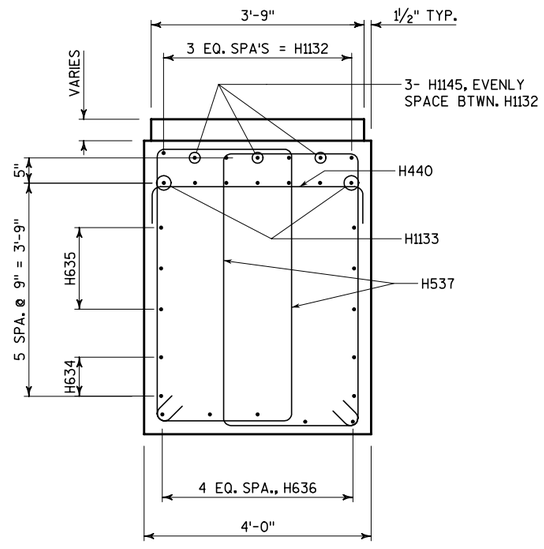


SECTION B-B

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

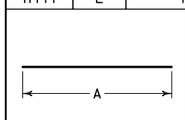
PIER P7-001
DETAILS

SHEET 47 OF 396

2915

FILE NAME: R:\C\bridges\1312\cds\1312-01C036D.dgn PEN TABLE: \\mtp\FinalDgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:27 Plotted by: emccrigh

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
H1001		50	11'-6"	2474	1	11'-6"									FOOTING	BOTTOM
H802		26	11'-6"	798	1	11'-6"									FOOTING	BOTTOM
H503		52	11'-6"	624	1	11'-6"									FOOTING	TOP
H1004	E	74	12'-7"	4007	8	11'-1"									FOOTING	DOWEL
H1010	E	74	22'-10"	7271	1	22'-10"									COLUMN	VERTICAL
H411	E	34	11'-10"	269	3	3'-4"	2'-4"								COLUMN	TIES
H412	E	34	4'-0"	91	13	3'-4"									COLUMN	TIES
H413	E	36	15'-1"	363	14	3'-0"	4'-9"	6"							COLUMN	TIES
H414	E	36	3'-4"	80	13	2'-8½"									COLUMN	TIES
H415	E	36	3'-1"	74	13	2'-5"									COLUMN	TIES
H616	E	4	18'-6"	111	1	18'-6"									COLUMN	VERTICAL
H617	E	6	8'-0"	72	1	8'-0"									COLUMN	VERTICAL
H618	E	4 series of 4	15'-4" to 3'-10"	230	1	15'-4" to 3'-10" by 3'-10"									COLUMN	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
H419	E	2 series of 8	18'-7" to 10'-7"	156	3	5'-5½" to 1'-5½" by 6⅞"	3'-7"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
H620	E	4	16'-6"	99	1	16'-6"									COLUMN	VERTICAL
H421	E	2	26'-1"	35	3	9'-2½"	3'-7"								COLUMN	TIES
H1130	E	7	35'-10"	1333	16	4'-2"	24'-3"						12.49		CAP	BOTTOM
H1131	E	4	29'-4"	623	4	1'-11½"	26'-2"								CAP	BOTTOM
H1132	E	4	71'-10⅛"	1527	1	71'-10"									CAP	TOP
H1133	E	14	24'-10"	1847	4	1'-11½"	21'-8"								CAP	CAPS
H634	E	2 series of 4	35'-8" to 56'-0"	551	1	35'-8" to 56'-0" by 6'-9¼"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
H635	E	4 series of 3	31'-11" to 32'-3"	578	1	31'-11" to 32'-3" by 2"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
H636	E	10	16'-9"	252	1	16'-9"									CAP	BOTTOM @ ENDS
H537	E	4 series of 24	15'-11" to 11'-9"	0	3	5'-3" to 3'-2" by ⅛"	2'-5"								CAP	STIRRUPS @ ENDS, BUNDLE AND TAG EACH SERIES SEPARATELY
H538	E	66	19'-7"	1348	3	7'-1"	2'-5"								CAP	STIRRUPS
H539	E	10	7'-0"	73	17	2'-0"	3'-2"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
H440	E	22	4'-8"	69	4	8"	3'-7"								CAP	TIE
H1141	E	6	25'-0"	797	1	25'-0"									CAP	TOP
H442	E	15	6'-7"	66	4	1'-9"	3'-4"								CAP	VERTICAL GIRDER SEATS
H443	E	4	11'-6"	31	1	11'-6"									CAP	HORIZ. GIRDER SEATS
H444	E	4	13'-4"	36	1	13'-4"									CAP	HORIZ. GIRDER SEATS



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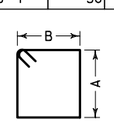

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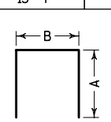

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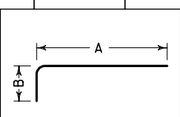
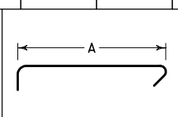


TYPE 8



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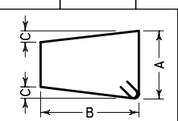
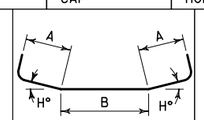
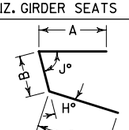


TYPE 14



TYPE 16



TYPE 17

TOTAL NON-EPOXY REINFORCEMENT WT (LB)	3897
TOTAL EPOXY REINFORCEMENT WT (LB)	23374

STATE PROJECT NUMBER

1060-05-75

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

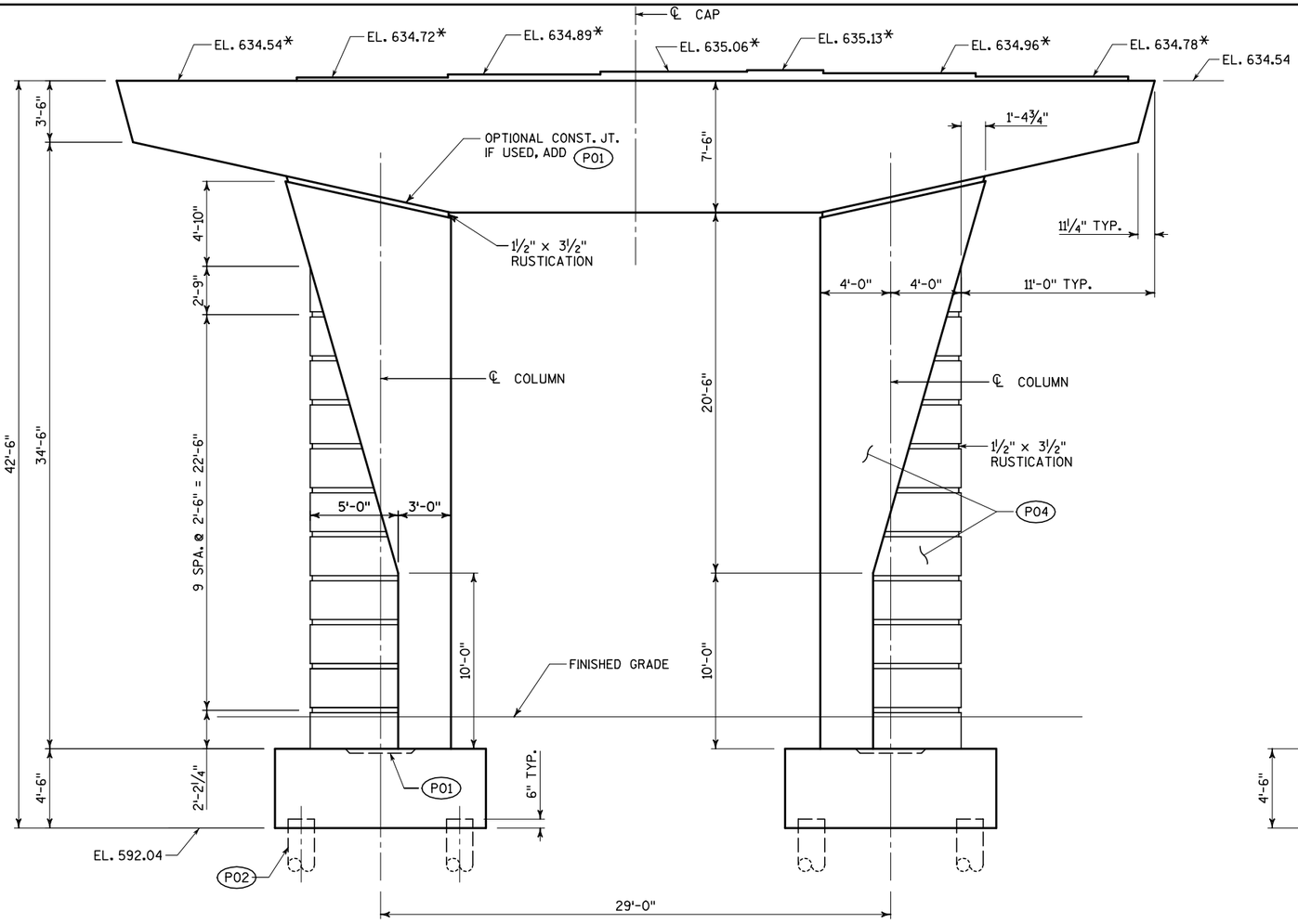
CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P7-001
REINF. SCHEDULE

SHEET 48 OF 396

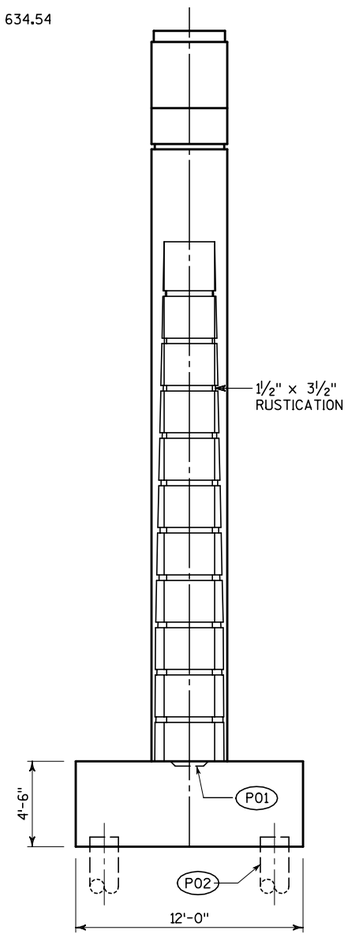
2916

STATE PROJECT NUMBER
1060-05-75

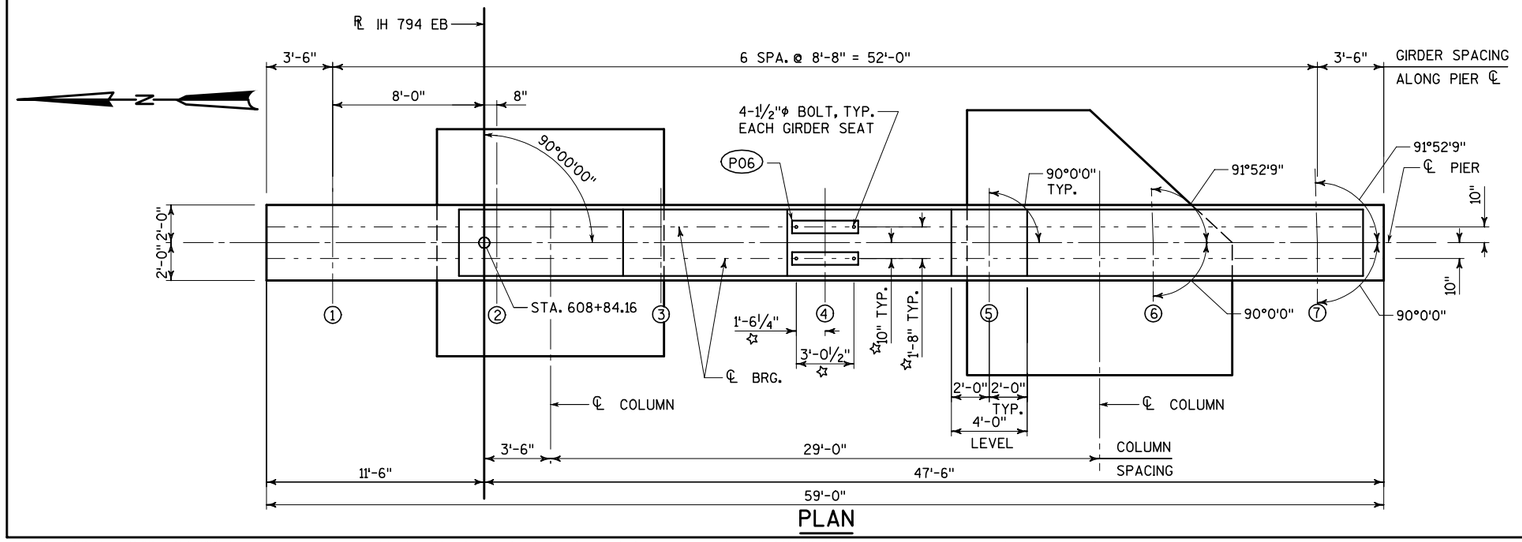


ELEVATION

(LOOKING EAST-SHOWING DIMENSIONS)



END ELEVATION



PLAN

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 220 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 80'.

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 383.

(P06) 1½" THICK MASONRY PLATE, SEE "PRESTRESSED GIRDER BEARINGS" SHEET FOR DETAILS.

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

☆ DIMENSIONS ARE GIVEN TO THE ℄ OF ANCHOR BOLTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P8-001

SHEET 49 OF 396

2917

8

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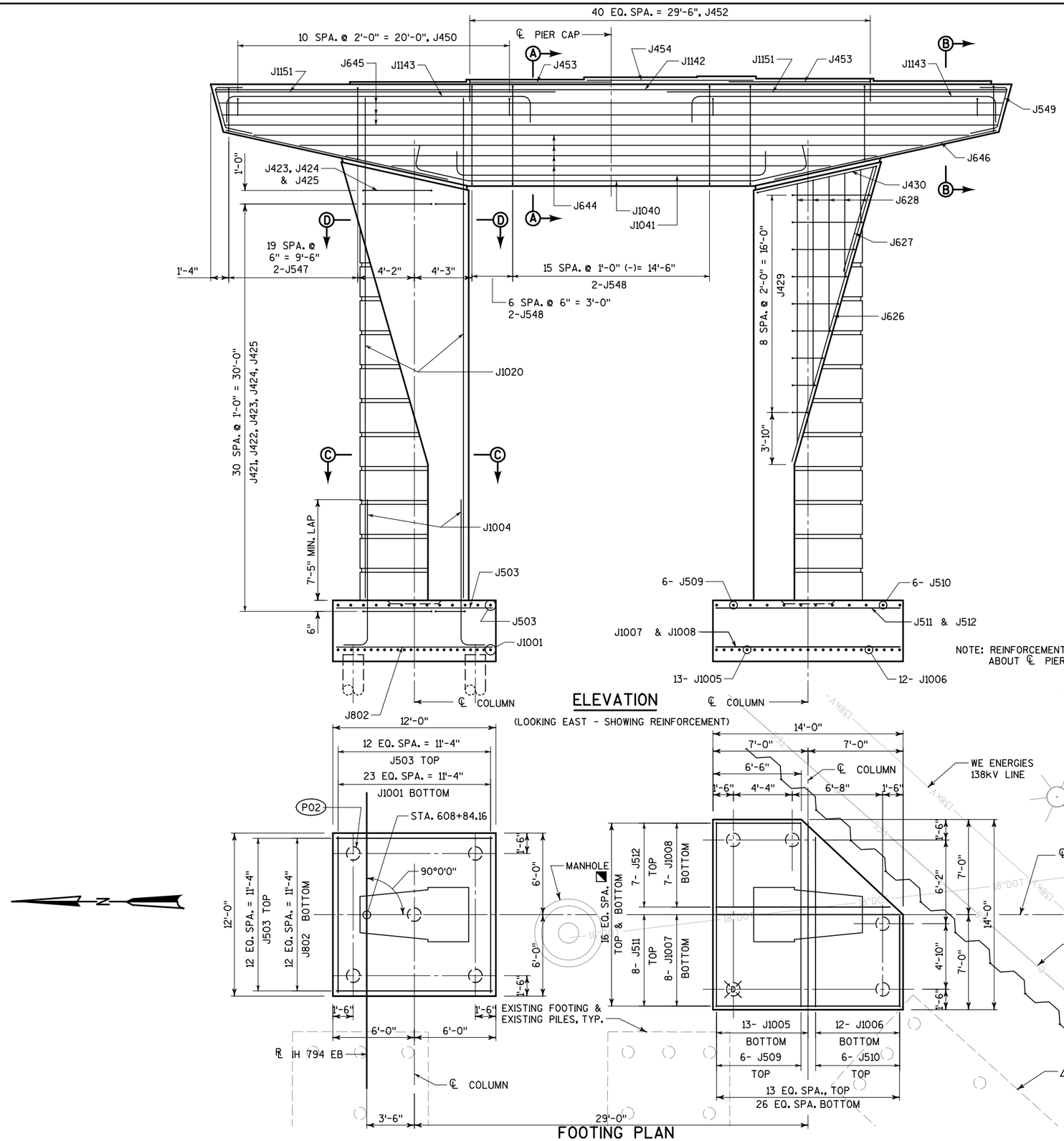
STATE PROJECT NUMBER
1060-05-75



NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 220 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 80'.

(D) DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

◥ MANHOLE AND STORM SEWER TO BE REMOVED AS PART OF REMOVAL PLANS.

△ CUTOFF PILING IN EXIST. FOOTING THAT IS IN THE FOOTPRINT OF THE PROPOSED FOOTING 2'-0" BELOW BOTTOM OF PROPOSED FOOTING. DO NOT INCORPORATE EXIST. PILING INTO PROPOSED FOOTING.

◐ CITY OF MILWAUKEE STREET LIGHTING TO REMAIN IN SERVICE. EXCAVATE AND LOCATE PRIOR TO PLACING TEMPORARY SHORING. IF 1'-0" CLEAR TO PROPOSED FOOTING, CONTACT CITY ENGINEER FOR APPROVAL BEFORE PROCEEDING.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P8-001
REINF. LAYOUT

SHEET 50 OF 396
2918

8

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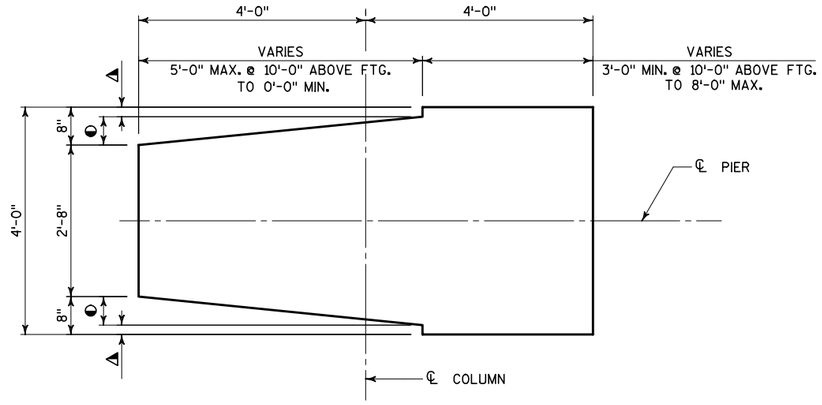
STATE PROJECT NUMBER

1060-05-75

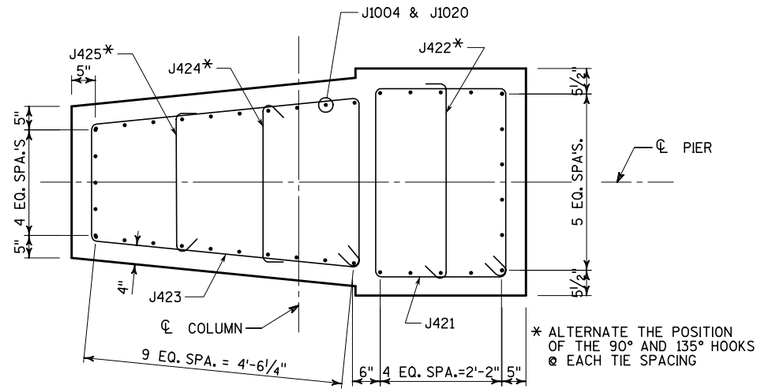


SECTION THRU COLUMN

(SHOWING DIMENSIONS)

◑ VARIES 6" MAX. @ 10'-0" ABOVE FTG. TO 0" MIN.

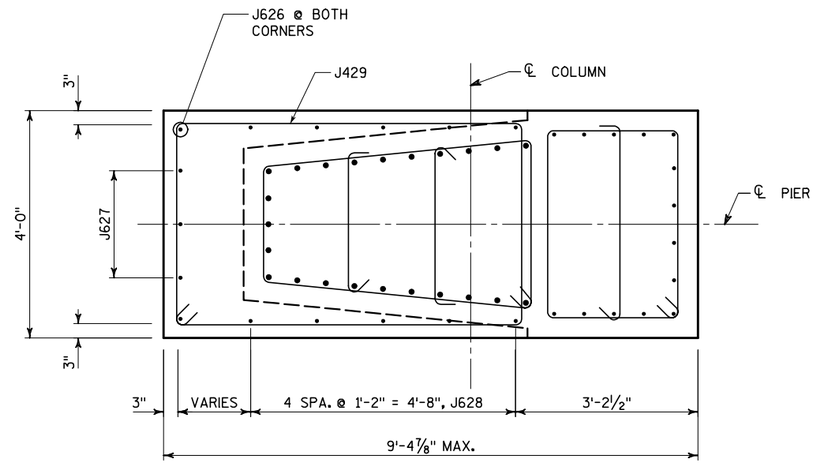
◭ VARIES 2" MIN. @ 10'-0" ABOVE FTG. TO 8" MAX.



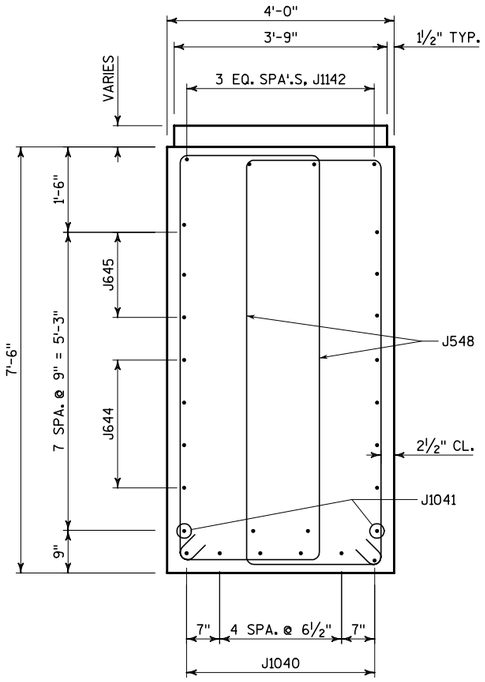
* ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS @ EACH TIE SPACING

SECTION C-C

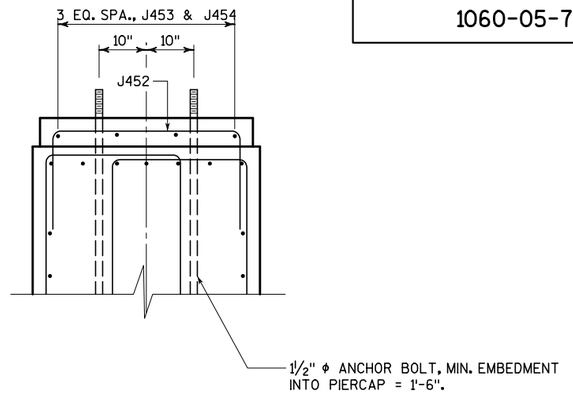
(SHOWING REINFORCEMENT)



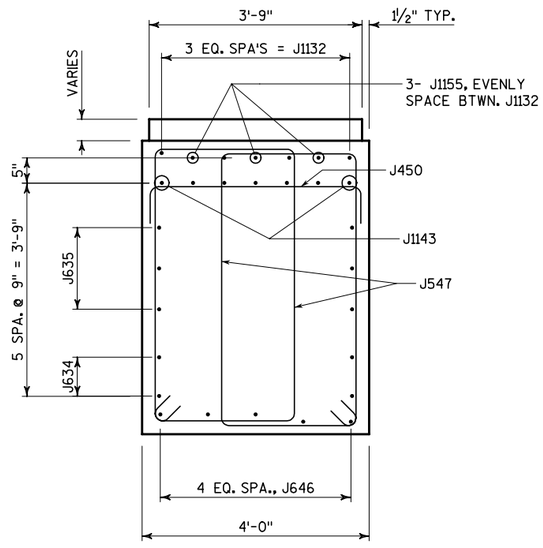
SECTION D-D



SECTION A-A



SECTION THRU GIRDER SEAT



SECTION B-B

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P8-001
DETAILS

SHEET 51 OF 396

2919

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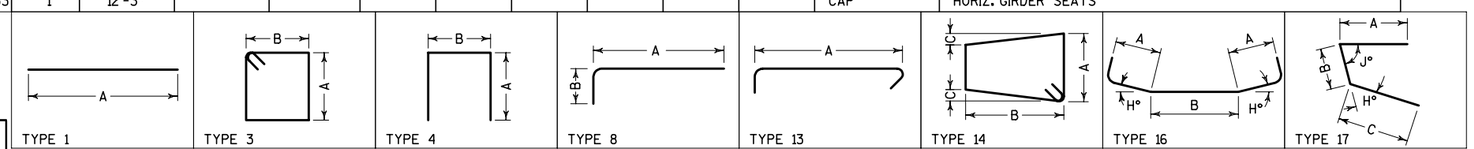
STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
J1001		24	11'-6"	1188	1	11'-6"									FOOTING	BOTTOM
J802		13	11'-6"	399	1	11'-6"									FOOTING	BOTTOM
J503		26	11'-6"	312	1	11'-6"									FOOTING	TOP
J1004	E	74	12'-7"	4007	8	11'-1"									FOOTING	DOWEL
J1005		13	13'-7"	760	1	13'-7"									FOOTING	BOTTOM
J1006		1 series of 12	6'-8" to 12'-6"	495	1	6'-8" to 12'-6" by 6 3/8"									FOOTING	BOTTOM, BUNDLE AND TAG EACH SERIES SEPARATELY
J1007		8	13'-7"	468	1	13'-7"									FOOTING	BOTTOM
J1008		1 series of 7	6'-3" to 12'-10"	287	1	13'-7"									FOOTING	BOTTOM, BUNDLE AND TAG EACH SERIES SEPARATELY
J509		6	13'-7"	85	1	13'-7"									FOOTING	TOP
J510		1 series of 6	6'-8" to 12'-6"	60	1	6'-8" to 12'-6" by 1'-2"									FOOTING	TOP, BUNDLE AND TAG EACH SERIES SEPARATELY
J511		8	13'-7"	113	1	13'-7"									FOOTING	TOP
J512		1 series of 7	6'-3" to 12'-10"	70	1	13'-7"									FOOTING	TOP, BUNDLE AND TAG EACH SERIES SEPARATELY
J1020	E	74	36'-10"	11729	1	36'-10"									COLUMN	VERTICAL
J421	E	62	11'-10"	490	3	3'-4"	2'-4"								COLUMN	TIES
J422	E	62	4'-0"	166	13	3'-4"									COLUMN	TIES
J423	E	64	15'-1"	645	14	3'-0"	4'-9"	6"							COLUMN	TIES
J424	E	64	3'-4"	143	13	2'-8 1/2"									COLUMN	TIES
J425	E	64	3'-1"	132	13	2'-5"									COLUMN	TIES
J626	E	4	22'-8"	136	1	22'-8"									COLUMN	VERTICAL
J627	E	6	8'-0"	72	1	8'-0"									COLUMN	VERTICAL
J628	E	4 series of 5	19'-1" to 3'-10"	345	1	19'-1" to 3'-10" by 3'-9 3/4"									COLUMN	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
J429	E	2 series of 9	19'-0" to 9'-10"	174	3	5'-8" to 1'-1" by 6 7/8"	3'-7"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
J430	E	2	26'-1"	35	3	9'-2 1/2"	3'-7"								COLUMN	TIES
J1040	E	6	32'-2"	831	16	4'-2"	20'-11"						12.49		CAP	BOTTOM
J1041	E	4	25'-9"	443	4	1'-9 1/2"	22'-10"								CAP	BOTTOM
J1142	E	4	58'-4"	1240	1	58'-4"									CAP	TOP
J1143	E	14	24'-10"	1847	4	1'-11 1/2"	21'-8"								CAP	TOP
J644	E	2 series of 4	32'-4" to 52'-8"	511	1	32'-4" to 52'-8" by 6'-9 1/4"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
J645	E	2 series of 3	56'-11" to 57'-9"	517	1	56'-11" to 57'-9" by 5"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
J646	E	10	16'-9"	252	1	16'-9"									CAP	BOTTOM @ ENDS
J547	E	4 series of 20	15'-11" to 11'-9"	0	3	5'-3" to 3'-2" by 1 3/8"	2'-5"								CAP	STIRRUPS @ ENDS, BUNDLE AND TAG EACH SERIES SEPARATELY
J548	E	56	19'-7"	1144	3	7'-1"	2'-5"								CAP	STIRRUPS
J549	E	8	7'-0"	58	17	2'-0"	3'-2"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
J450	E	22	4'-8"	69	4	8"	3'-7"								CAP	TIE
J1151	E	6	25'-0"	797	1	25'-0"									CAP	TOP
J452	E	41	6'-7"	180	4	1'-9"	3'-4"								CAP	VERTICAL GIRDER SEATS
J453	E	8	10'-5"	56	1	10'-5"									CAP	HORIZ. GIRDER SEATS
J454	E	4	12'-3"	33	1	12'-3"									CAP	HORIZ. GIRDER SEATS

TOTAL NON-EPOXY REINFORCEMENT WT (LB)	4237
TOTAL EPOXY REINFORCEMENT WT (LB)	27207



TYPE 1 | TYPE 3 | TYPE 4 | TYPE 8 | TYPE 13 | TYPE 14 | TYPE 16 | TYPE 17

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

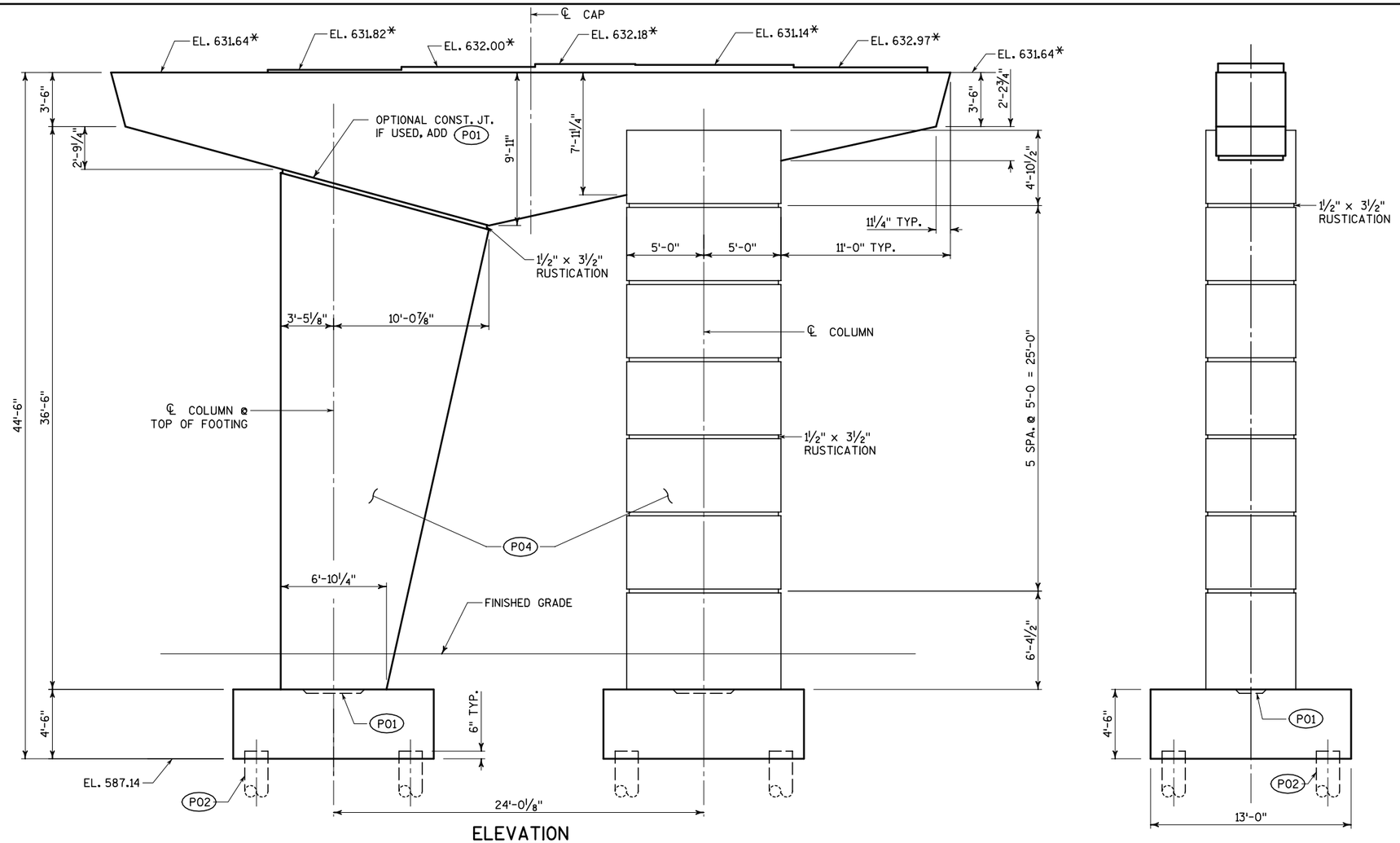
CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P8-001
REINF. SCHEDULE

SHEET 52 OF 396
2920

STATE PROJECT NUMBER

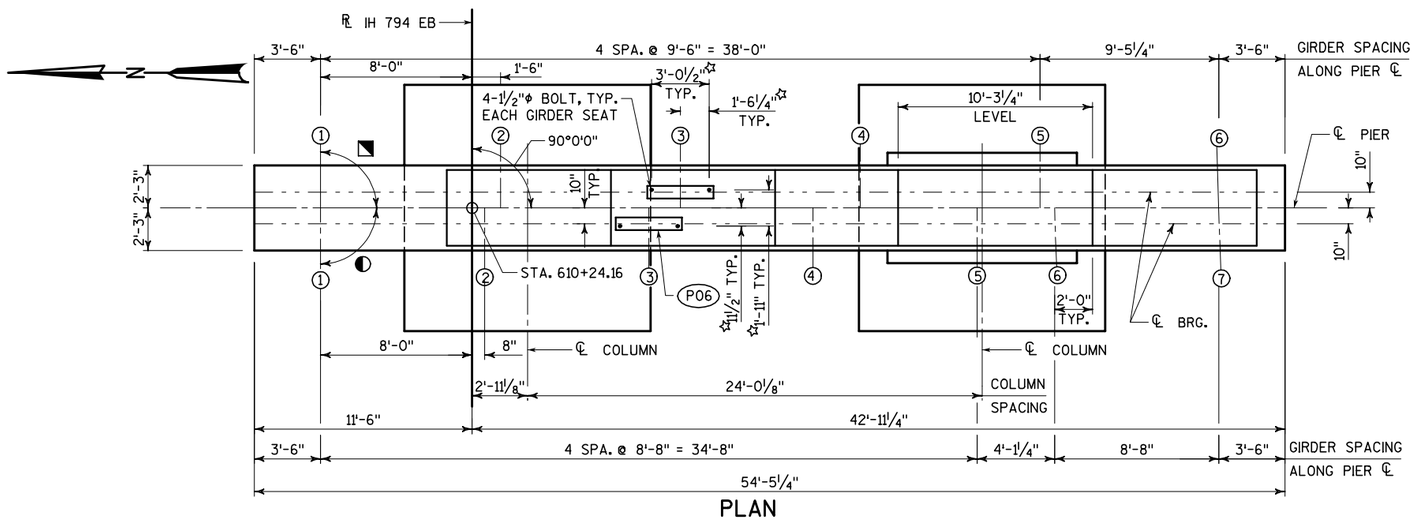
1060-05-75



ELEVATION

(LOOKING EAST-SHOWING DIMENSIONS)

END ELEVATION



PLAN

BEARING ANGLE

LOCATION		ANGLE
◥	GIRDER 1	90°0'0.0"
	GIRDER 2	90°0'0.0"
	GIRDER 3	90°0'0.0"
	GIRDER 4	90°0'0.0"
	GIRDER 5	90°0'0.0"
	GIRDER 6	91°51'49.7"
◐	GIRDER 1	90°0'0.0"
	GIRDER 2	90°0'0.0"
	GIRDER 3	90°0'0.0"
	GIRDER 4	90°0'0.0"
	GIRDER 5	90°0'0.0"
	GIRDER 6	88°7'51.0"
	GIRDER 7	88°7'51.0"

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 230 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 75'.

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 386.

(P06) 1½" THICK MASONRY PLATE, SEE "PRESTRESSED GIRDER BEARINGS" SHEET FOR DETAILS.

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

☆ DIMENSIONS ARE GIVEN TO THE ℄ OF ANCHOR BOLTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

PIER P9-001

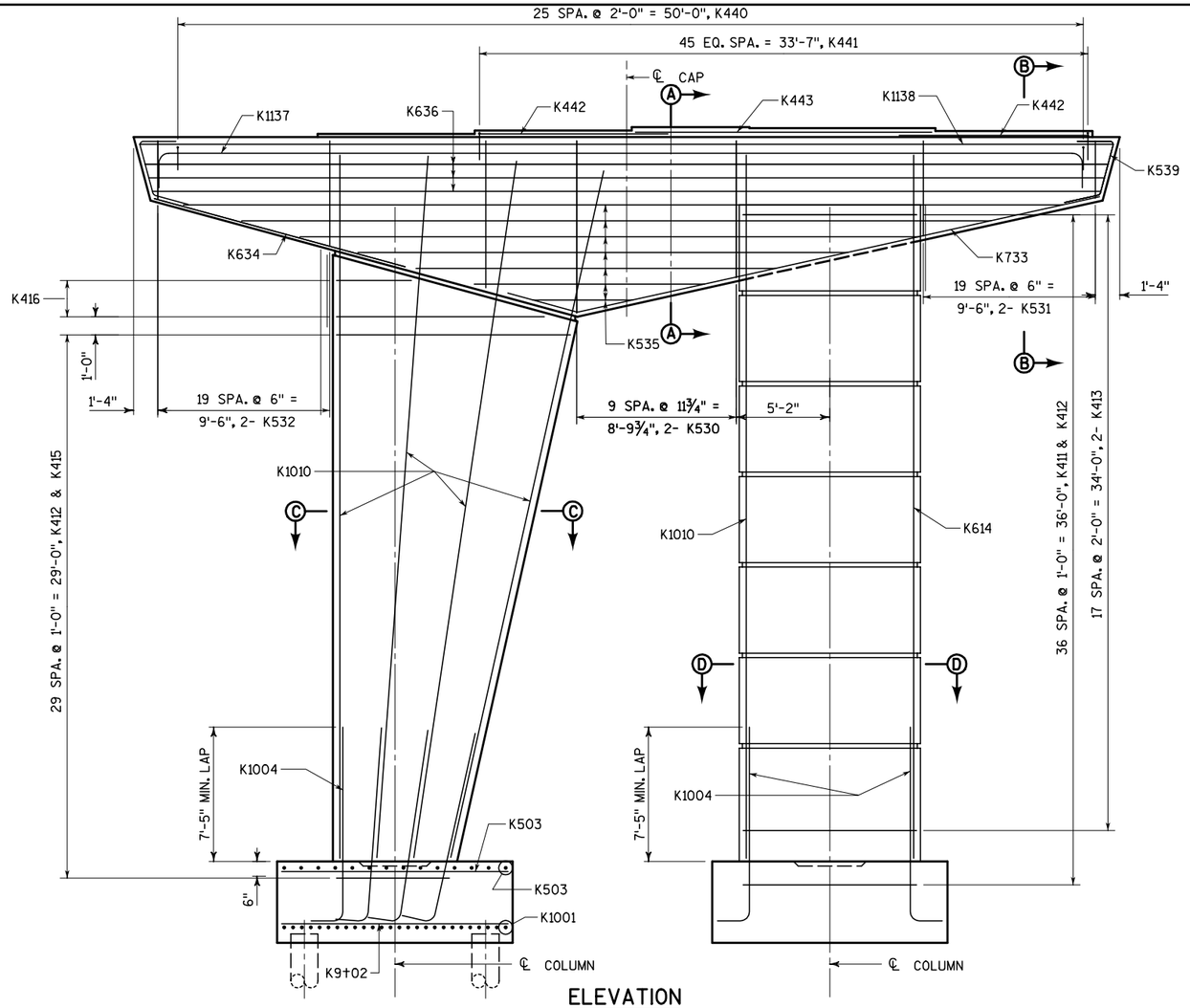
SHEET 53 OF 396

2921

8

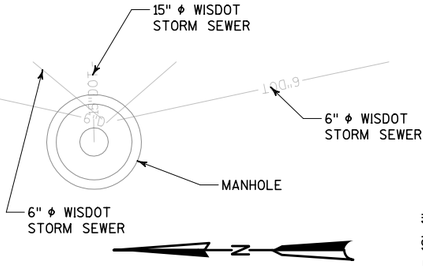
STATE PROJECT NUMBER

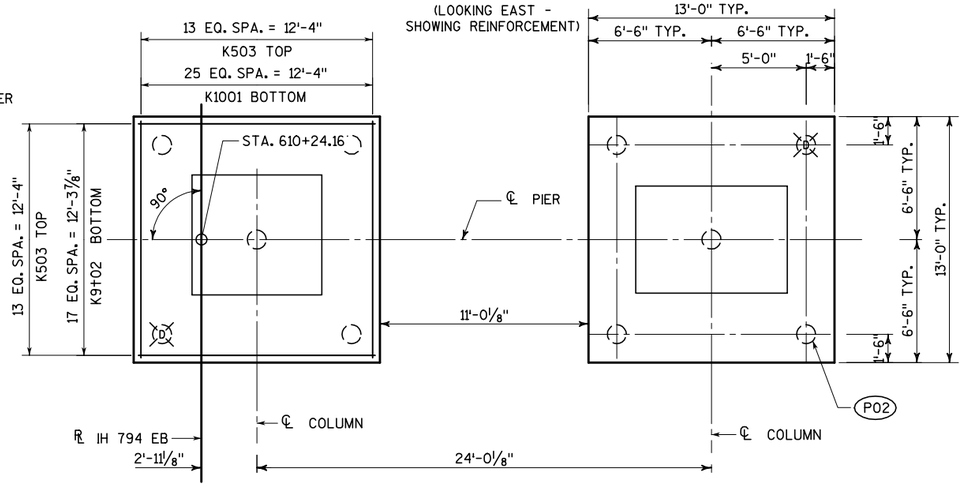
1060-05-75



ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)





REINFORCEMENT LAYOUT

PILE LAYOUT

FOOTING PLAN

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 230 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 75'.

(D) DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

PIER P9-001
REINF. LAYOUT

SHEET 54 OF 396

2922

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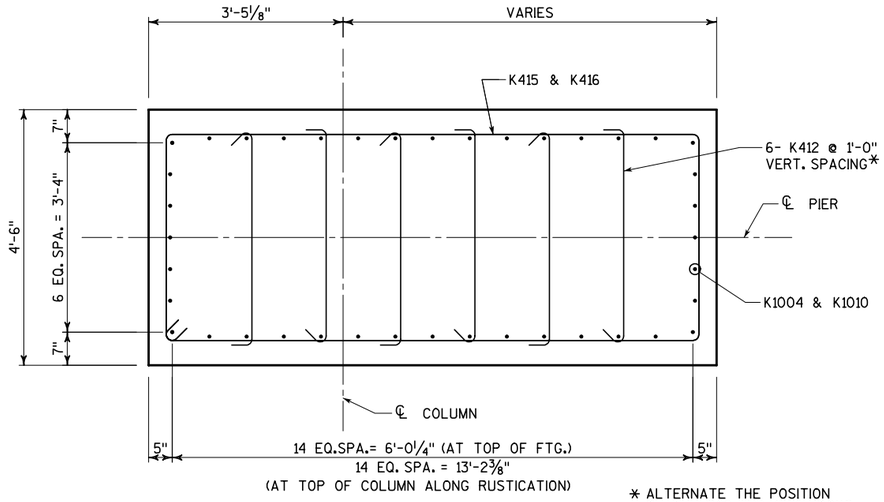
STATE PROJECT NUMBER

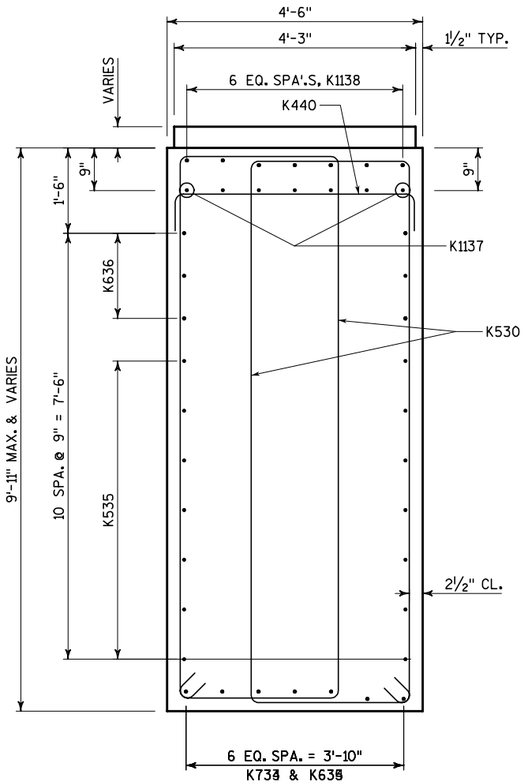
1060-05-75



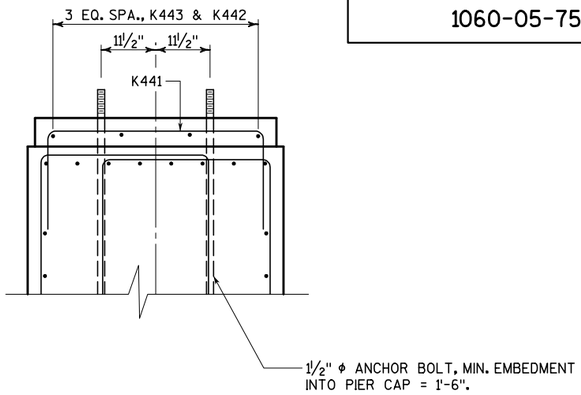
* ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS @ EACH TIE SPACING

SECTION C-C

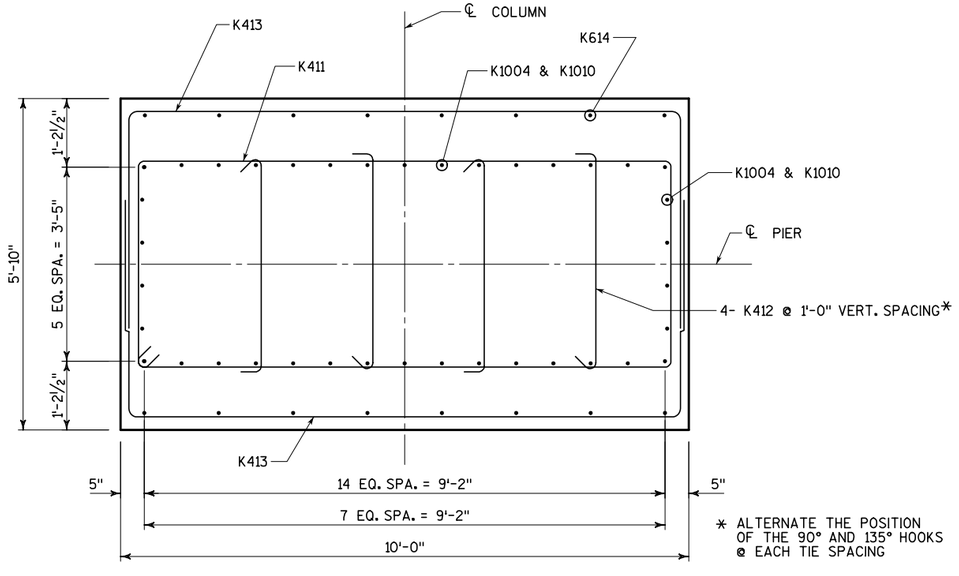
(SHOWING REINFORCEMENT)



SECTION A-A

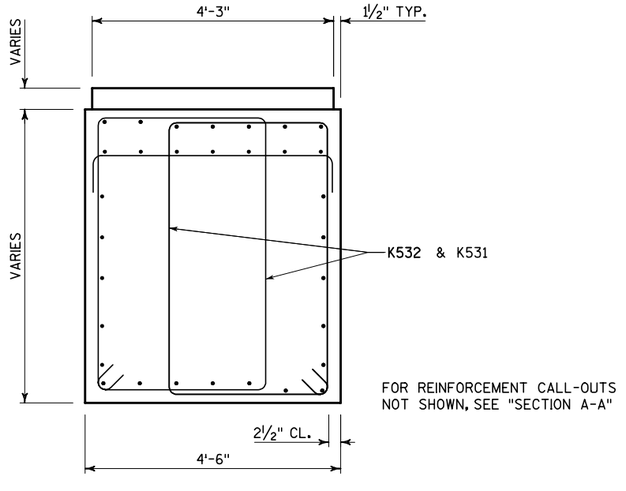


SECTION THRU GIRDER SEAT



* ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS @ EACH TIE SPACING

SECTION D-D



FOR REINFORCEMENT CALL-OUTS NOT SHOWN, SEE "SECTION A-A"

SECTION B-B

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

PIER P9-001 DETAILS

SHEET 55 OF 396

2923

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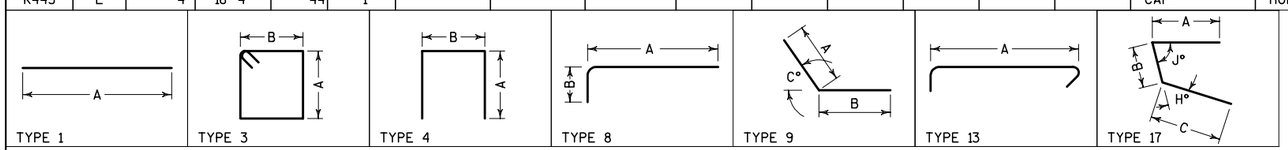
STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
K1001		52	12'-6"	2797	1										FOOTING	BOTTOM
K9+02		36	12'-6"	1530	1										FOOTING	BOTTOM
K503		56	12'-6"	730	1										FOOTING	TOP
K1004	E	78	12'-7"	4224	8	11'-1"									FOOTING	DOWEL
K1010	E	78	38'-10"	13035	1										COLUMN	VERTICAL
K411	E	37	27'-0"	667	3	9'-7"	3'-8"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
K412	E	314	4'-4"	909	13	3'-8"									COLUMN	TIES
K413	E	36	17'-0"	409	4	3'-10"	9'-7"								COLUMN	TIES
K614	E	16	38'-10"	933	1										COLUMN	VERTICAL
K415	E	1 series of 30	20'-8" to 33'-7"	544	3	6'-5" to 12'-10½" by 2⅝"	3'-8"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
K416	E	1 series of 3	30'-9" to 16'-1"	47	3	11'-5½" to 4'-1½" by 3'-8"	3'-8"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
K530	E	2 series of 10	21'-4" to 25'-3"	486	3	7'-6½" to 9'-6" by 2⅝"	2'-10"								CAP	STIRRUPS, BUNDLE AND TIE EACH SERIES SEPARATELY
K531	E	2 series of 20	12'-11" to 17'-1"	626	3	3'-2" to 5'-3" by 1⅜"	3'-0"								CAP	STIRRUPS AT END, BUNDLE AND TAG EACH SERIES SEPARATELY
K532	E	2 series of 20	17'-9" to 12'-7"	634	3	5'-9" to 3'-2" by 1⅝"	2'-10"								CAP	STIRRUPS AT END, BUNDLE AND TAG EACH SERIES SEPARATELY
K733	E	7	33'-6"	479	9	4'-0"	29'-6½"	27.71							CAP	BOTTOM
K634	E	7	14'-5"	152	1										CAP	BOTTOM
K535		2 series of 7	5'-6" to 48'-6"	394	1										CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
K636	E	2 series of 3	52'-5" to 53'-2"	476	1										CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
K1137	E	7	54'-3"	2018	4	1'-11½"	51'-1"								CAP	TOP
K1138	E	7	53'-9"	1999	1										CAP	TOP
K539	E	14	7'-0"	102	17	2'-0"	3'-2"	2'-0"					62.52	75.00	CAP	VERTICAL ENDS
K440	E	52	5'-2"	179	4	8"	4'-1"								CAP	TIE
K441	E	46	7'-1"	218	4	1'-9"	3'-10"								CAP	VERTICAL GIRDER SEATS
K442	E	8	10'-5"	56	1										CAP	HORIZ. GIRDER SEATS
K443	E	4	16'-4"	44	1										CAP	HORIZ. GIRDER SEATS



TOTAL NON-EPOXY REINFORCEMENT	WT (LB)	5452
TOTAL EPOXY REINFORCEMENT	WT (LB)	28236

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

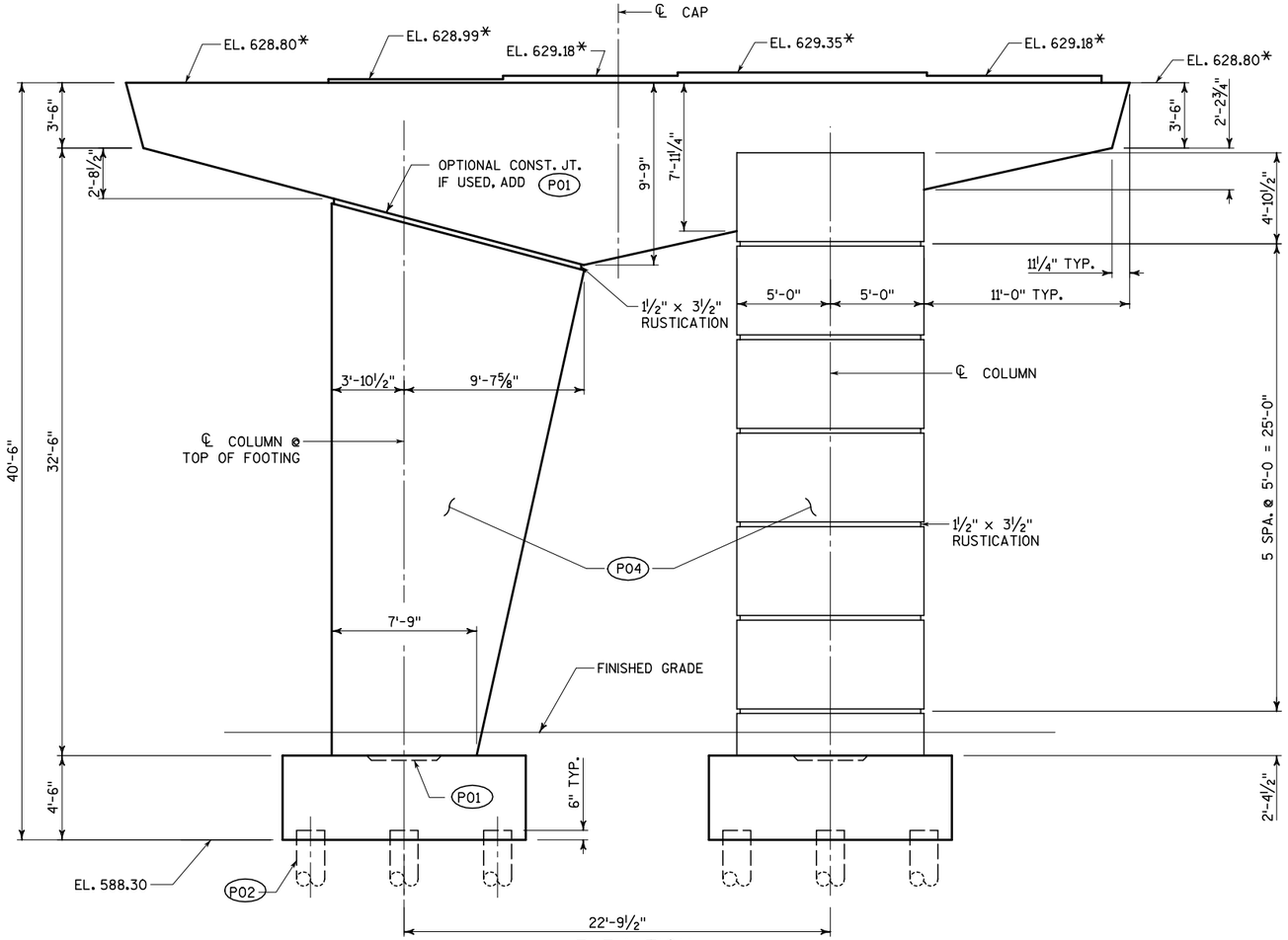
CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P9-001
REINF. SCHEDULE

SHEET 56 OF 396
2924

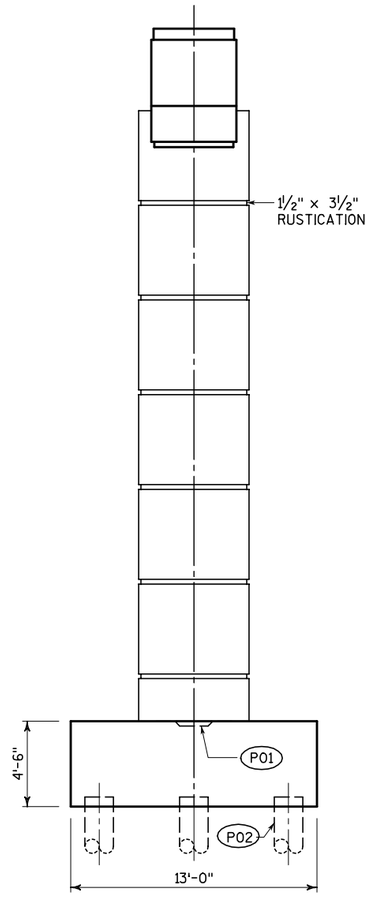
STATE PROJECT NUMBER

1060-05-75

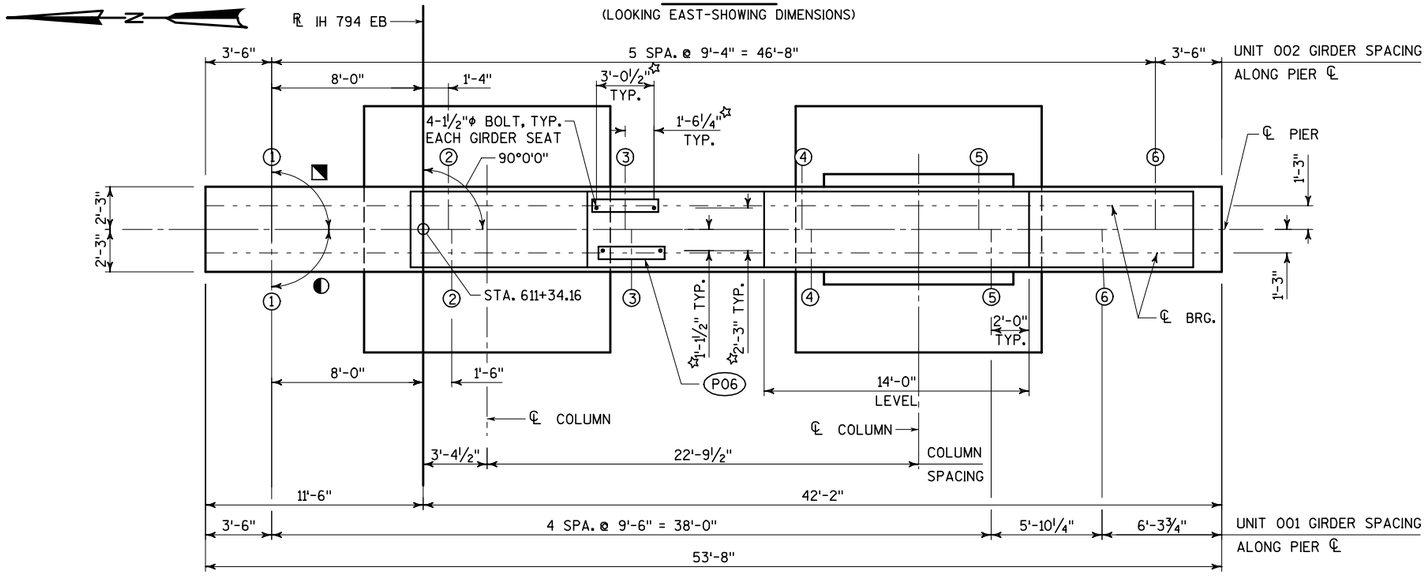


ELEVATION

(LOOKING EAST-SHOWING DIMENSIONS)



END ELEVATION



PLAN

BEARING ANGLE

LOCATION		ANGLE
UNIT 002 ◥	GIRDER 1	90°0'0.0"
	GIRDER 2	90°0'0.0"
	GIRDER 3	90°0'0.0"
	GIRDER 4	90°0'0.0"
	GIRDER 5	90°0'0.0"
	GIRDER 6	90°0'0.0"
UNIT 001 ◐	GIRDER 1	90°0'0.0"
	GIRDER 2	90°0'0.0"
	GIRDER 3	90°0'0.0"
	GIRDER 4	90°0'0.0"
	GIRDER 5	90°0'0.0"
	GIRDER 6	88°8'10.3"

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 210 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 85'.

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 386.

(P06) 1½" THICK MASONRY PLATE, SEE "PRESTRESSED GIRDER BEARINGS" SHEET FOR DETAILS.

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

☆ DIMENSIONS ARE GIVEN TO THE ℄ OF ANCHOR BOLTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

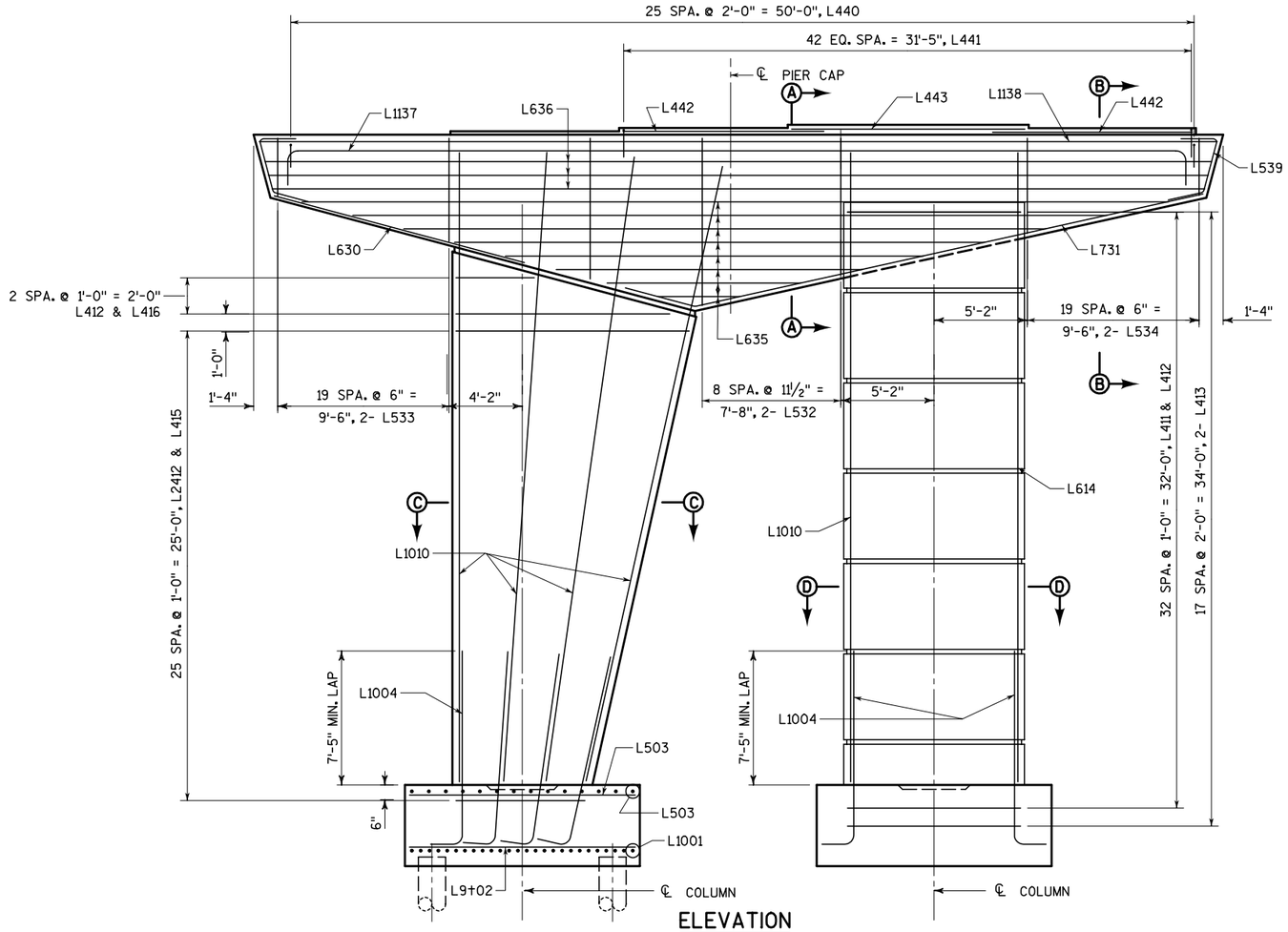
PIER P10-001

SHEET 57 OF 396

2925

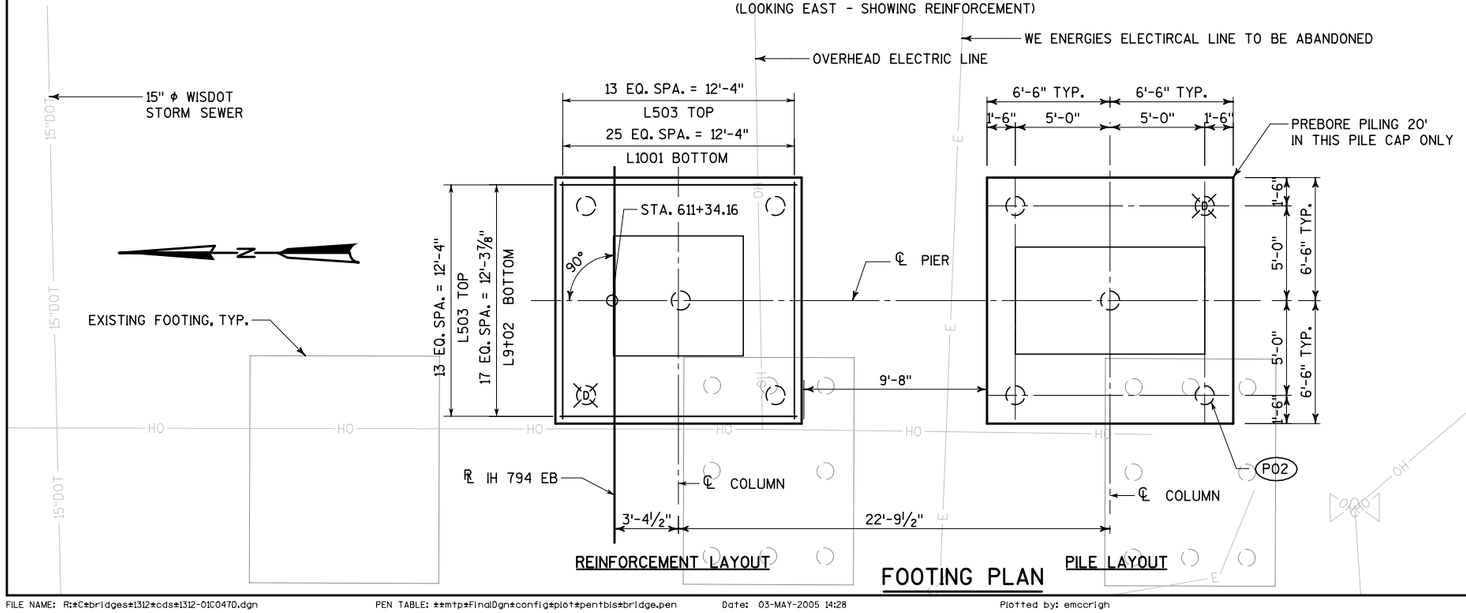
8

STATE PROJECT NUMBER
1060-05-75



ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)



REINFORCEMENT LAYOUT

FOOTING PLAN

PILE LAYOUT

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 210 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 85'.

(D) DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P10-001
REINF. LAYOUT

SHEET 58 OF 396

2926

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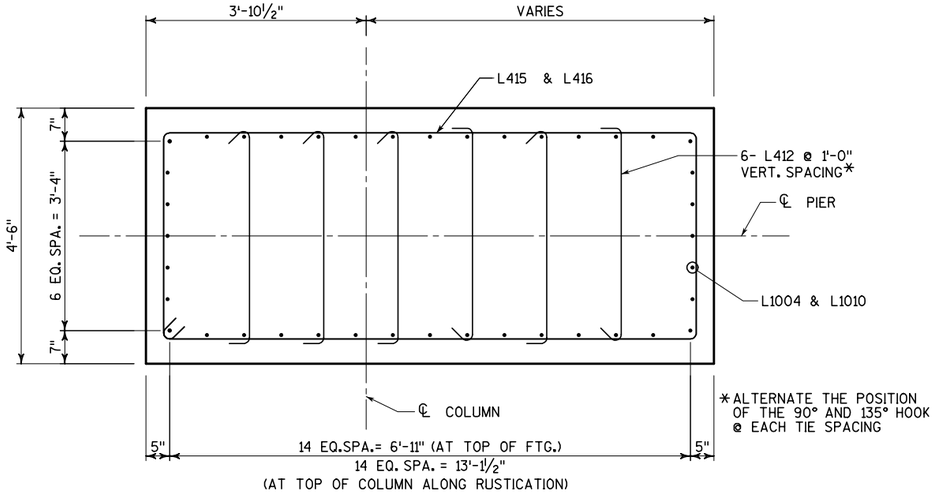
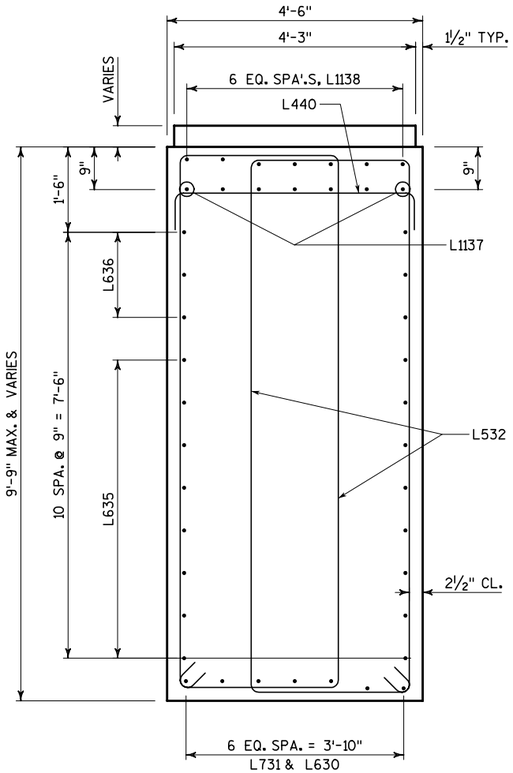
STATE PROJECT NUMBER

1060-05-75

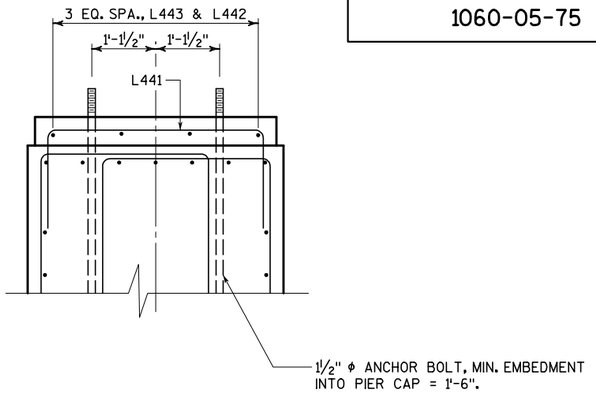


SECTION C-C

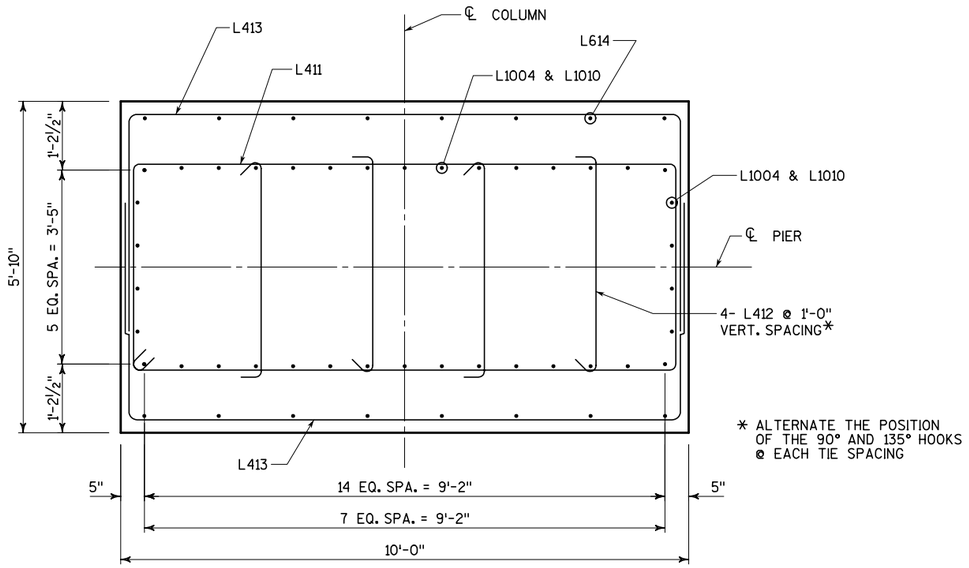
(SHOWING REINFORCEMENT)



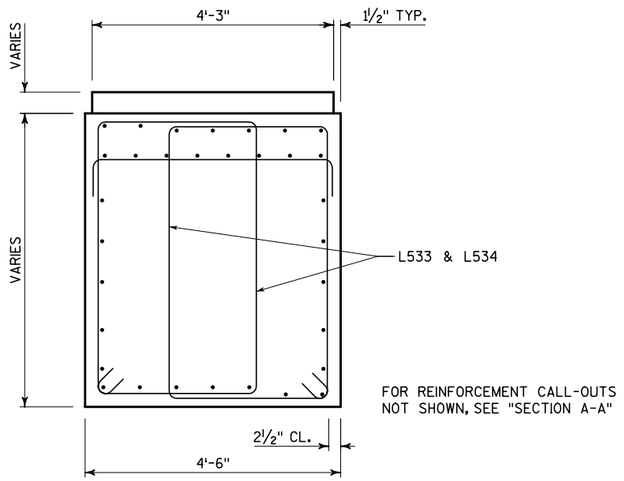
SECTION A-A



SECTION THRU GIRDER SEAT



SECTION D-D



FOR REINFORCEMENT CALL-OUTS NOT SHOWN, SEE "SECTION A-A"

SECTION B-B

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P10-001
DETAILS

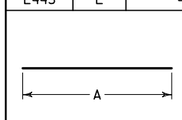
SHEET 59 OF 396

2927

FILE NAME: R:\C\bridges\1312\cds\1312-01C0480.dgn PEN TABLE: \\mtp\FinalDgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:28 Plotted by: emccrigh

STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
L1001		52	12'-6"	2797	S	12'-6"									FOOTING	BOTTOM
L9†02		36	12'-6"	1530	S	12'-6"									FOOTING	BOTTOM
L503		56	12'-6"	730	S	12'-6"									FOOTING	TOP
L1004	E	78	12'-7"	4224	8	11'-1"									FOOTING	DOWEL
L1010	E	78	34'-10"	11692	S	34'-10"									COLUMN	VERTICAL
L411	E	33	27'-0"	595	3	9'-7"	3'-8"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
L412	E	309	4'-4"	895	13	3'-8"									COLUMN	TIES
L413	E	36	17'-0"	409	4	3'-10"	9'-7"								COLUMN	TIES
L614	E	16	34'-10"	837	S	34'-10"									COLUMN	VERTICAL
L415	E	1 series of 26	22'-5" to 33'-7"	486	3	7'-3½" to 12'-10½" by 2⅝"	3'-8"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
L416	E	1 series of 3	31'-6" to 16'-6"	48	3	11'-10" to 4'-4" by 3'-9"	3'-8"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
L630	E	7	14'-4"	151	1										CAP	BOTTOM
L731	E	7	32'-9"	469	9	4'-0"	28'-9½"	27.40							CAP	BOTTOM
L532	E	2 series of 9	21'-4" to 24'-9"	433	3	7'-6½" to 9'-3" by 2½"	2'-10"								CAP	STIRRUPS, BUNDLE AND TIE EACH SERIES SEPARATELY
L533	E	2 series of 20	17'-8" to 12'-7"	631	3	5'-8½" to 3'-2" by 1⅝"	2'-10"								CAP	STIRRUPS AT END, BUNDLE AND TAG EACH SERIES SEPARATELY
L534	E	2 series of 20	12'-7" to 16'-9"	612	3	3'-2" to 5'-3" by 1⅜"	2'-10"								CAP	STIRRUPS AT END, BUNDLE AND TAG EACH SERIES SEPARATELY
L635	E	2 series of 8	4'-6" to 47'-11"	630	1										CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
L636	E	2 series of 3	51'-7" to 52'-5"	469	1										CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
L1137	E	7	53'-0"	1971	4	1'-11½"	49'-10"								CAP	TOP
L1138	E	7	53'-0"	1971	1										CAP	TOP
L539	E	7	7'-0"	51	17	2'-0"	3'-2"	2'-0"					62.52	75.00	CAP	VERTICAL ENDS
L440	E	52	5'-2"	179	4	8"	4'-1"								CAP	TIE
L441	E	43	7'-1"	203	4	1'-9"	3'-10"								CAP	VERTICAL GIRDER SEATS
L442	E	8	11'-1"	59	1										CAP	HORIZ. GIRDER SEATS
L443	E	4	12'-11"	35	1										CAP	HORIZ. GIRDER SEATS



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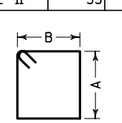

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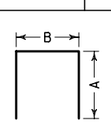

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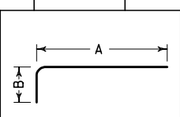

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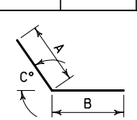
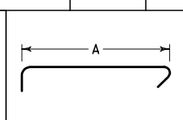
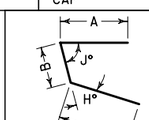


TYPE 9



TYPE 13



TYPE 17

TOTAL NON-EPOXY REINFORCEMENT	WT (LB)	5057
TOTAL EPOXY REINFORCEMENT	WT (LB)	27051

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P10-001
REINF. SCHEDULE

SHEET 60 OF 396
2928

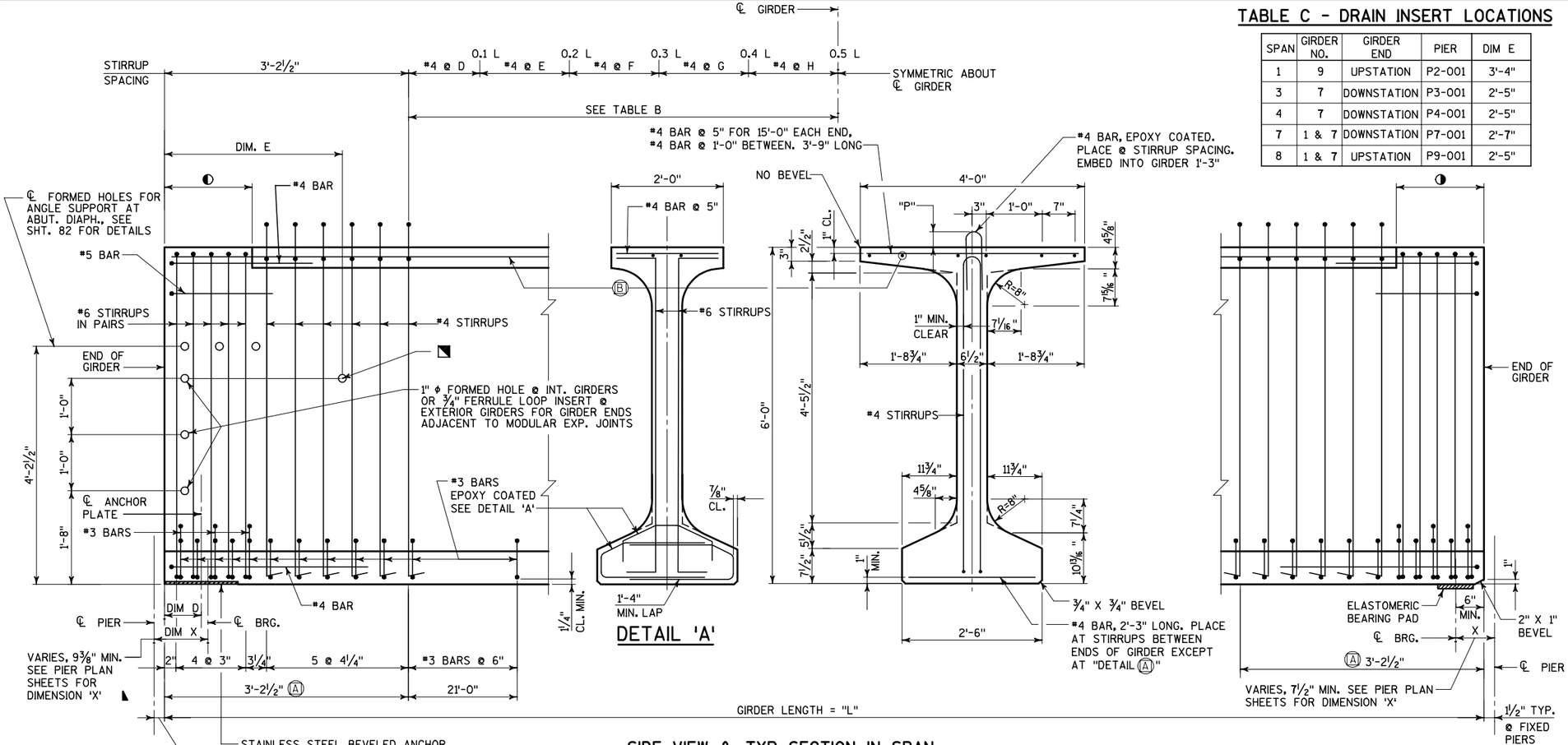


TABLE C - DRAIN INSERT LOCATIONS

SPAN	GIRDER NO.	GIRDER END	PIER	DIM E
1	9	UPSTATION	P2-001	3'-4"
3	7	DOWNSTATION	P3-001	2'-5"
4	7	DOWNSTATION	P4-001	2'-5"
7	1 & 7	DOWNSTATION	P7-001	2'-7"
8	1 & 7	UPSTATION	P9-001	2'-5"

NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY FOR BONDING TO THE SLAB, EXCEPT THE OUTSIDE 15" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH. AN APPROVED LIQUID BOND BREAKER SHALL BE APPLIED TO THE TOP SURFACE OF THE GIRDER EXCEPT FOR THE CENTER 18". APPLY NO MORE THAN 7 DAYS PRIOR TO POURING THE DECK.

NOX-CRETE:
SILCOSEAL 2000 F (2 COATS)
MASTER BUILDERS:
FIRST COAT - PRECO FORM-COTE
SECOND COAT - RHEOFINISH 220

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS.

PRESTRESSING STRANDS SHALL BE 0.6" ϕ - 7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 PSI AND SHALL BE FLUSH WITH THE ENDS OF THE GIRDER.

BEND EACH END OF #4 STIRRUPS 4½" AND #6 STIRRUPS 9".

FOR DIAPHRAGM INSERT & CONNECTION DETAILS, SEE "STEEL DIAPHRAGM" SHEET. FOR LOCATION OF INSERTS, SEE "GIRDER FRAMING PLAN" SHEETS.

FOR THREADED INSERT & FORMED HOLE LOCATIONS & DETAILS AT CONCRETE DIAPH'S, SEE "SUPERSTRUCTURE DETAILS" SHEETS.

ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT. IF THE FABRICATOR WANTS TO BUILD A BAR STEEL CAGE BY WELDING LONGITUDINAL REINFORCEMENT TO THE #4 STIRRUPS, 2 OPTIONS ARE AVAILABLE:

1. USE ASTM A706, GRADE 60 REINFORCEMENT AND THE STIRRUP SPACING AS SHOWN ON THE PLANS.
2. USE ASTM A615, GRADE 40 REINFORCEMENT AND A MODIFIED STIRRUP SPACING SUBMITTED TO AND APPROVED BY THE STRUCTURES DEVELOPMENT SECTION.

AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION.

WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ASTM A497.

ENDS OF STRANDS SHALL BE PAINTED WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER AT GIRDER ENDS THAT ARE EXPOSED.

ALL PRESTRESSED GIRDERS SHALL BE 60 DAYS OLD BEFORE THE DECK AND CONCRETE DIAPHRAGMS ARE POURED.

SIDE VIEW & TYP. SECTION IN SPAN

Ⓐ DETAIL TYP. AT EACH END

Ⓑ #6 BARS, FULL LENGTH, MIN. LAP = 3'-2"

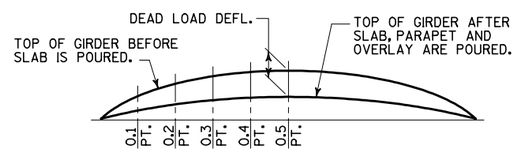
◐ TOP FLANGE BLOCK OUT, SEE DETAILS ON SHEET 62

◥ ¾" ϕ ELECTROPLATED FERRULE LOOP INSERT (MEDIUM HIGH CARBON WIRE) OR APPROVED EQUAL. SEE TABLE C, DECK PLAN SHEETS AND PIER DRAIN SHEETS FOR LOCATIONS AND DETAILS OF INSERT.

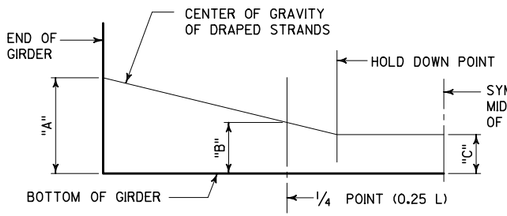
▲ FOR GIRDER LAYOUT ANGLES BETWEEN 85° & 95°, DIM. X IS EQUAL TO THE ℄ PIER TO THE ℄ BRG. DISTANCE GIVEN ON THE PIER PLAN SHEETS

TABLE A

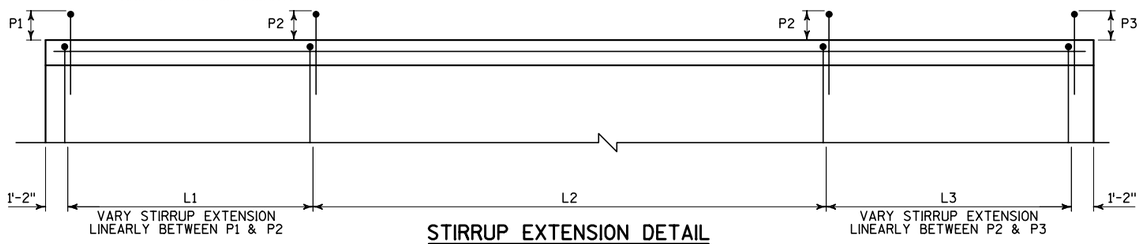
PIER NO.	DIM. D	ANCHOR PLATE DIM'S
P2-001, P3-001, P4-001	8½"	½" X 1'-5" X 2'-4½"
P7-001, P8-001, P9-001	8½"	½" X 1'-5" X 2'-4½"
A1-001, P1-001, P10-001	9"	½" X 1'-6" X 2'-4½"



DEAD LOAD DEFLECTION DIAGRAM



DRAPED STRAND PROFILE



STIRRUP EXTENSION DETAIL

SPAN	GIRDERS	GIRDER LENGTH	L1	L2	L3	P1	P2	P3
1	1, 2, 6	70'-6"	70'-6"	0'-0"	0'-0"	8"	-	-
1	3	70'-6"	34'-0"	16'-6"	20'-0"	8"	9"	8"
1	4 & 5	70'-6"	20'-0"	43'-6"	7'-0"	8"	9"	8"
1	7	66'-7⅞"	7'-0"	39'-7⅞"	20'-0"	8"	7"	8"
1	8	62'-11⅝"	7'-0"	42'-11⅝"	13'-0"	8"	7"	8"
1	9	59'-8½"	6'-0"	47'-8½"	6'-0"	8"	7"	8"

SPAN	GIRDERS	GIRDER LENGTH	L1	L2	L3	P1	P2	P3
2	1 & 3	90'-1"	44'-0"	46'-1"	0'-0"	8"	7"	-
2	2	90'-1"	62'-0"	28'-1"	0'-0"	8"	7"	-
2	4	90'-1"	35'-0"	55'-1"	0'-0"	8"	7"	-
2	5 & 6	90'-1"	27'-0"	63'-1"	0'-0"	8"	7"	-
2	7	90'-7¾"	27'-0"	63'-7¾"	0'-0"	8"	7"	-
2	8	91'-5¾"	18'-0"	73'-5¾"	0'-0"	8"	7"	-
5	6	117'-10¼"	12'-0"	59'-10¼"	46'-0"	7"	8"	7"

TABLE B - STIRRUP SPACING

SPAN	MAX. SPACING				
	D	E	F	G	H
1	10"	16"	18"	18"	18"
2	10"	18"	18"	18"	18"
3	10"	14"	16"	16"	18"
4	10"	14"	15"	15"	18"
5	10"	13"	15"	15"	18"
6	9"	14"	15"	15"	18"
7	10"	11"	11"	16"	18"
8	8"	15"	15"	15"	18"
9	8"	12"	14"	14"	15"

NO.	DATE	REVISION	BY

STATE PROJECT NUMBER
1060-05-75

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	RWN	EKM

72W" PRESTRESSED GIRDER DETAILS 1

SHEET 61 OF 396
2929

8

FILE NAME: R:\C\bridges\1312\cds\1312-01C050D.dgn PEN TABLE: \\mtp\FinalDgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:28 Plotted by: emccrigh

STATE PROJECT NUMBER

1060-05-75

GIRDER DATA

SPAN	GIRDER NO.	GIRDER LENGTH "L"	DEAD LOAD DEFL. (IN.) 0.1	0.2	0.3	0.4	0.5	CONC. STRGTH. f'c (p.s.i.)	"P" **	DIA. OF STRAND	DRAPED PATTERN TOTAL NO. OF STRANDS	f'ci (p.s.i.) *	(IN.) "A"	"B" MIN.	"B" MAX.	"C"	UNDRAPED PATTERN TOTAL NO. OF STRANDS	f'ci (p.s.i.) *	TOP FLANGE BLOCK OUT DIM'S Z (IN.)	Y°
1	1 - 6	70'-6"	0	1/8"	1/8"	1/8"	1/8"	8,000	VARIES	0.6"	——	——	——	——	——	——	12	6000	▲ 12	⊛
1	7	66'-7 7/8"	0	1/8"	1/8"	1/8"	1/8"	8,000	VARIES	0.6"	——	——	——	——	——	——	12	6000	▲ 12	⊛
1	8	62'-11 5/8"	0	1/8"	1/8"	1/8"	1/8"	8,000	VARIES	0.6"	——	——	——	——	——	——	12	6000	▲ 12	⊛
1	9	59'-8 1/2"	0	1/8"	1/8"	1/8"	1/8"	8,000	VARIES	0.6"	——	——	——	——	——	——	12	6000	▲ 12	⊛
2	1 - 6	90'-1"	1/8"	1/4	3/8"	3/8"	3/8"	8,000	VARIES	0.6"	——	——	——	——	——	——	18	6000	12	⊛
2	7	90'-7 3/4"	1/8"	1/4	3/8"	3/8"	3/8"	8,000	VARIES	0.6"	——	——	——	——	——	——	18	6000	12	⊛
2	8	91'-5 3/4"	1/8"	1/4	3/8"	3/8"	3/8"	8,000	VARIES	0.6"	——	——	——	——	——	——	18	6000	12	⊛
3	ALL	104'-11 1/2"	1/4"	1/2"	5/8"	3/4"	3/4"	8,000	7"	0.6"	20	6,000	52	16	19	4	——	——	12	⊛
4	ALL	129'-9 5/8"	5/8"	1 1/4"	1 5/8"	1 7/8"	1 7/8"	8,000	7"	0.6"	30	6,000	66	19 1/2	22 1/2	4	——	——	12	⊛
5	1	102'-1"	1/4"	3/8"	1/2"	5/8"	5/8"	8,000	7"	0.6"	26	6,000	52	19	16	4	——	——	12	⊛
5	2	105'-2 3/4"	1/4"	1/2"	5/8"	3/4"	3/4"	8,000	7"	0.6"	26	6,000	52	19	16	4	——	——	12	⊛
5	3	108'-4 5/8"	3/8"	1/2"	3/4"	7/8"	7/8"	8,000	7"	0.6"	26	6,000	52	19	16	4	——	——	12	⊛
5	4	111'-6 1/2"	3/8"	5/8"	7/8"	1	1	8,000	7"	0.6"	26	6,000	52	19	16	4	——	——	12	⊛
5	5	114'-8 3/8"	3/8"	3/4"	7/8"	1 1/8"	1 1/8"	8,000	7"	0.6"	26	6,000	52	19	16	4	——	——	12	⊛
5	6	117'-10 1/4"	1/2	3/4"	1	1 1/4"	1 1/4"	8,000	7"	0.6"	26	6,000	52	19	16	4	——	——	12	⊛
5	7	121'-0"	1/2"	7/8"	1 1/8"	1 3/8"	1 3/8"	8,000	7"	0.6"	26	6,000	52	19	16	4	——	——	12	⊛
6	ALL	139'-9"	7/8"	1 5/8"	2 1/8"	2 1/2"	2 5/8"	8,000	7"	0.6"	38	6,000	65	20	23	5	——	——	12	⊛
7	1	87'-7"	1/8"	1/4"	1/4"	3/8"	3/8"	8,000	7"	0.6"	——	——	——	——	——	——	18	6000	12	⊛
7	2	84'-5 1/8"	1/8"	1/4"	1/4"	3/8"	3/8"	8,000	7"	0.6"	——	——	——	——	——	——	18	6000	12	⊛
7	3	81'-3 1/4"	1/8"	1/4"	1/4"	3/8"	3/8"	8,000	7"	0.6"	——	——	——	——	——	——	18	6000	12	⊛
7	4	78'-1 3/8"	1/8"	1/4"	1/4"	1/4"	1/4"	8,000	7"	0.6"	——	——	——	——	——	——	18	6000	12	⊛
7	5	74'-11 5/8"	0"	1/8"	1/8"	1/8"	1/8"	8,000	7"	0.6"	——	——	——	——	——	——	18	6000	12	⊛
7	6	71'-9 3/4"	0"	1/8"	1/8"	1/8"	1/8"	8,000	7"	0.6"	——	——	——	——	——	——	18	6000	12	⊛
7	7	68'-7 7/8"	0"	1/8"	1/8"	1/8"	1/8"	8,000	7"	0.6"	——	——	——	——	——	——	18	6000	12	⊛
8	ALL	139'-9"	7/8"	1 5/8"	2 1/8"	2 1/2"	2 1/2"	8,000	7"	0.6"	38	6,000	65	20	23	5	——	——	12	⊛
9	ALL	109'-5"	3/8"	5/8"	3/4"	7/8"	1"	8,000	7"	0.6"	24	6,000	56	17	20	4	——	——	▲ 12	⊛

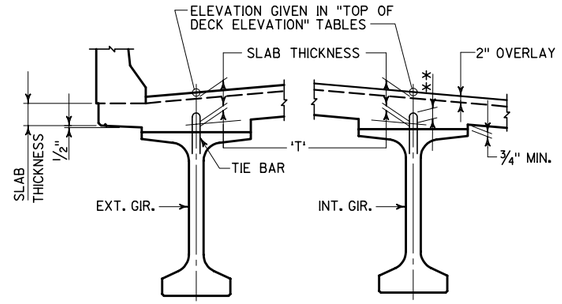
⊛ SEE GIRDER BLOCK OUT DATA TABLE ON THIS SHEET.

▲ BLOCK OUT DIM. X ADJACENT TO MODULAR JOINTS SHALL BE 1'-11".

** FOR STIRRUP EXTENSION, SEE DETAIL ON 72W" PRESTRESSED GIRDER DETAILS 1

BLOCK OUT DATA ⊛

SPAN	GIRDER NO.	TOP FLANGE BLOCK OUT DIM'S GIRDER END	Z (IN.)	Y
1	1 - 6	DOWNSTATION	23	90°0'0"
		UPSTATION	12	90°0'0"
1	7	DOWNSTATION	23	91°11'52.8"
		UPSTATION	12	88°48'6.5"
1	8	DOWNSTATION	23	92°23'14.3"
		UPSTATION	12	87°36'45.0"
1	9	DOWNSTATION	12	90°0'0"
		UPSTATION	12	90°0'0"
2	1 - 6	DOWNSTATION	23	90°0'0"
		UPSTATION	12	90°0'0"
2	7	DOWNSTATION	23	91°11'52.8"
		UPSTATION	12	88°48'6.5"
2	8	DOWNSTATION	23	92°23'14.3"
		UPSTATION	12	87°36'45.0"
3	1 - 7	DOWNSTATION	12	90°0'0"
		UPSTATION	12	90°0'0"
4	1 - 7	DOWNSTATION	23	90°0'0"
		UPSTATION	12	90°0'0"
5	1 - 7	DOWNSTATION	23	91°11'52.8"
		UPSTATION	12	88°48'6.5"
6	1 - 7	DOWNSTATION	23	92°23'14.3"
		UPSTATION	12	87°36'45.0"
7	1 - 7	DOWNSTATION	12	90°0'0"
		UPSTATION	12	90°0'0"
8	1 - 5	DOWNSTATION	23	92°23'14.3"
		UPSTATION	12	87°36'45.0"
8	6 & 7	DOWNSTATION	12	90°0'0"
		UPSTATION	12	90°0'0"
9	1 - 5	DOWNSTATION	23	92°23'14.3"
		UPSTATION	12	87°36'45.0"
9	6	DOWNSTATION	12	90°0'0"
		UPSTATION	12	90°0'0"



SLAB HAUNCH DETAIL

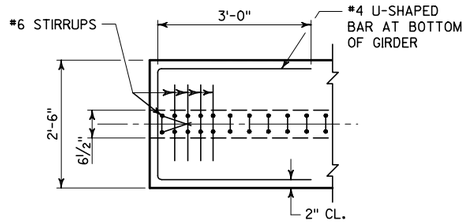
IF 3/4" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR. THE PLAN SLAB THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN 1/2" OR,

** IF 3" MINIMUM DECK EMBEDMENT OF THE TIE BAR CANNOT BE OBTAINED.

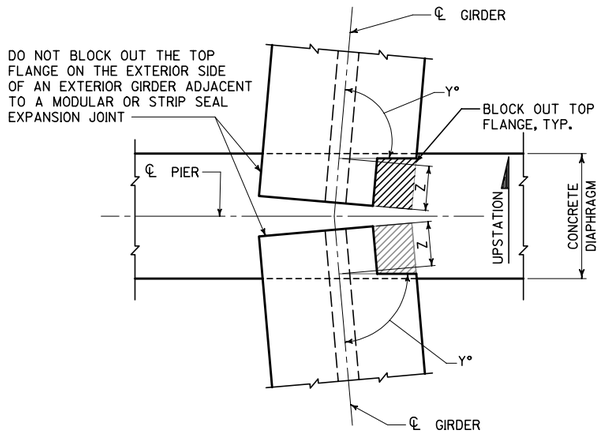
TO DETERMINE 'T', ELEV. OF TOP OF GIRDERS AT ℄ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF GIRDER ELEVATION
+ DEAD LOAD DEFLECTION
- SLAB THICKNESS

= HAUNCH HEIGHT 'T'

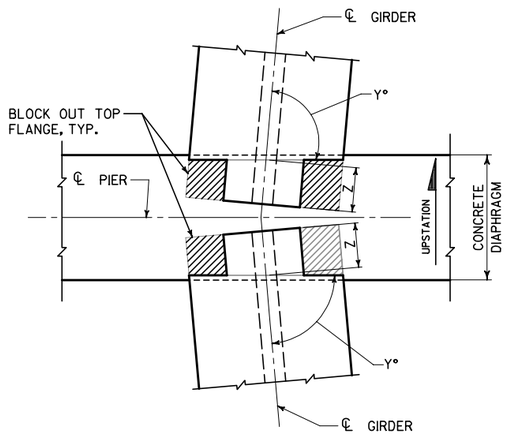


BOTTOM FLANGE AT GIRDER ENDS



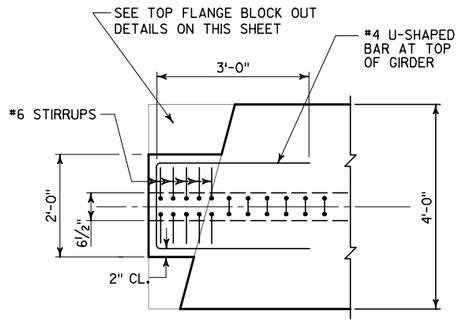
TOP FLANGE BLOCKOUT DETAIL @ EXTERIOR GIRDERS

(SEE BLOCK OUT DATA TABLE ON THIS SHEET)



TOP FLANGE BLOCKOUT DETAIL @ INTERIOR GIRDERS

(SEE BLOCK OUT DATA TABLE ON THIS SHEET)



TOP FLANGE AT GIRDER ENDS

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC. 2004	DRAWN BY RWN	PLANS CK'D. KES

72W" PRESTRESSED GIRDER DETAILS 2

SHEET 62 OF 396

2930

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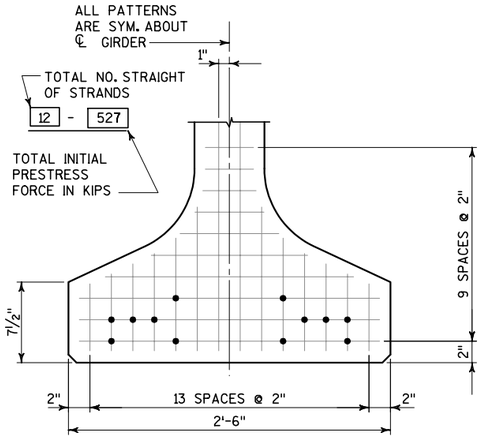
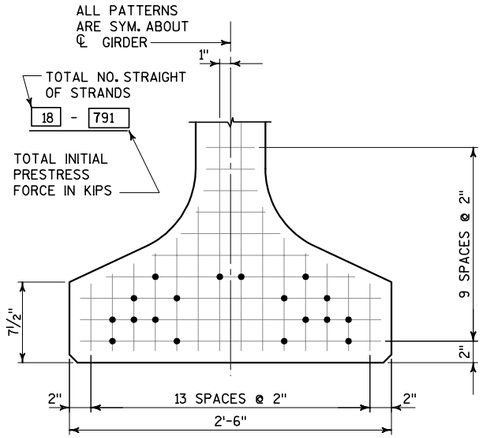
STATE PROJECT NUMBER

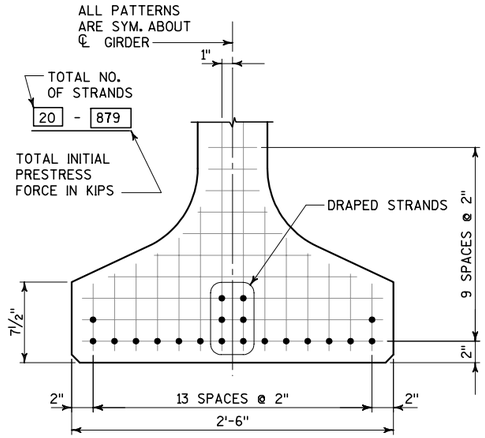
1060-05-75



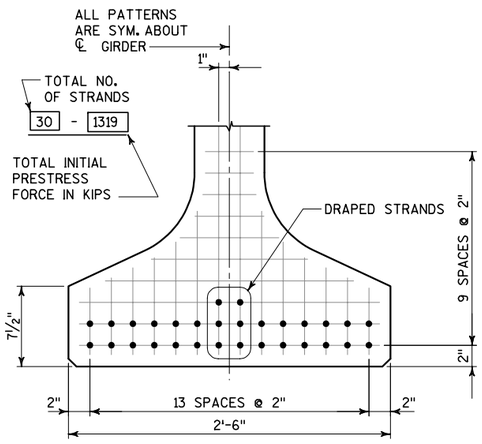
TYP. STRAND PATTERN
SPAN 1



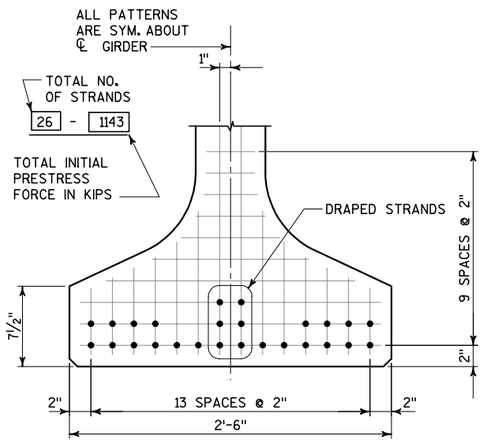
TYP. STRAND PATTERN
SPAN 2



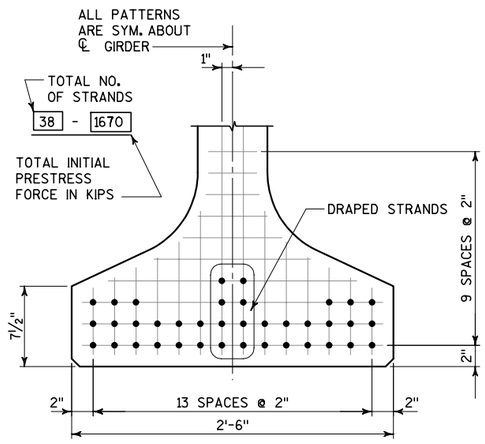
TYP. STRAND PATTERN
SPAN 3



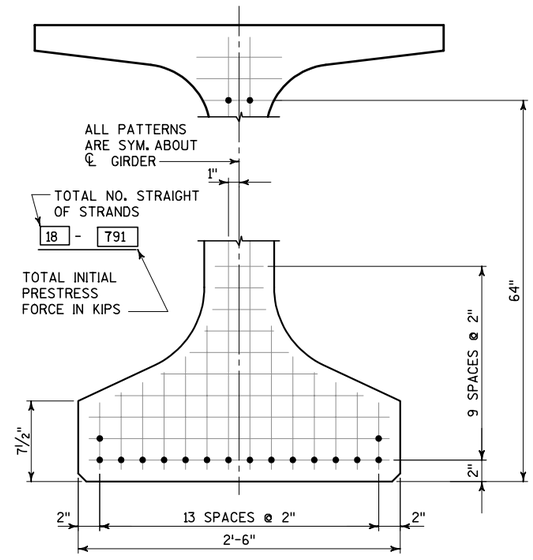
TYP. STRAND PATTERN
SPAN 4



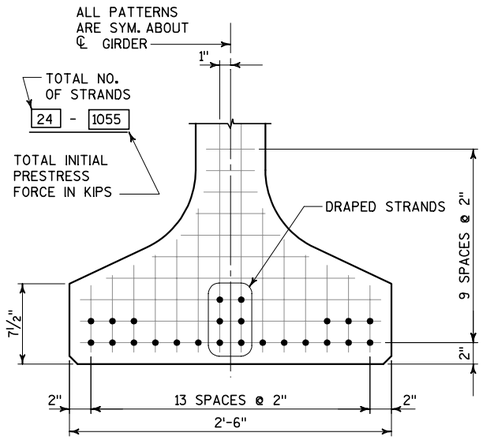
TYP. STRAND PATTERN
SPAN 5



TYP. STRAND PATTERN
SPAN 6 & 8



TYP. STRAND PATTERN
SPAN 7, GIRDERS 1-7



TYP. STRAND PATTERN
SPAN 9

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

72"W PRESTRESSED GIRDER DETAILS 3

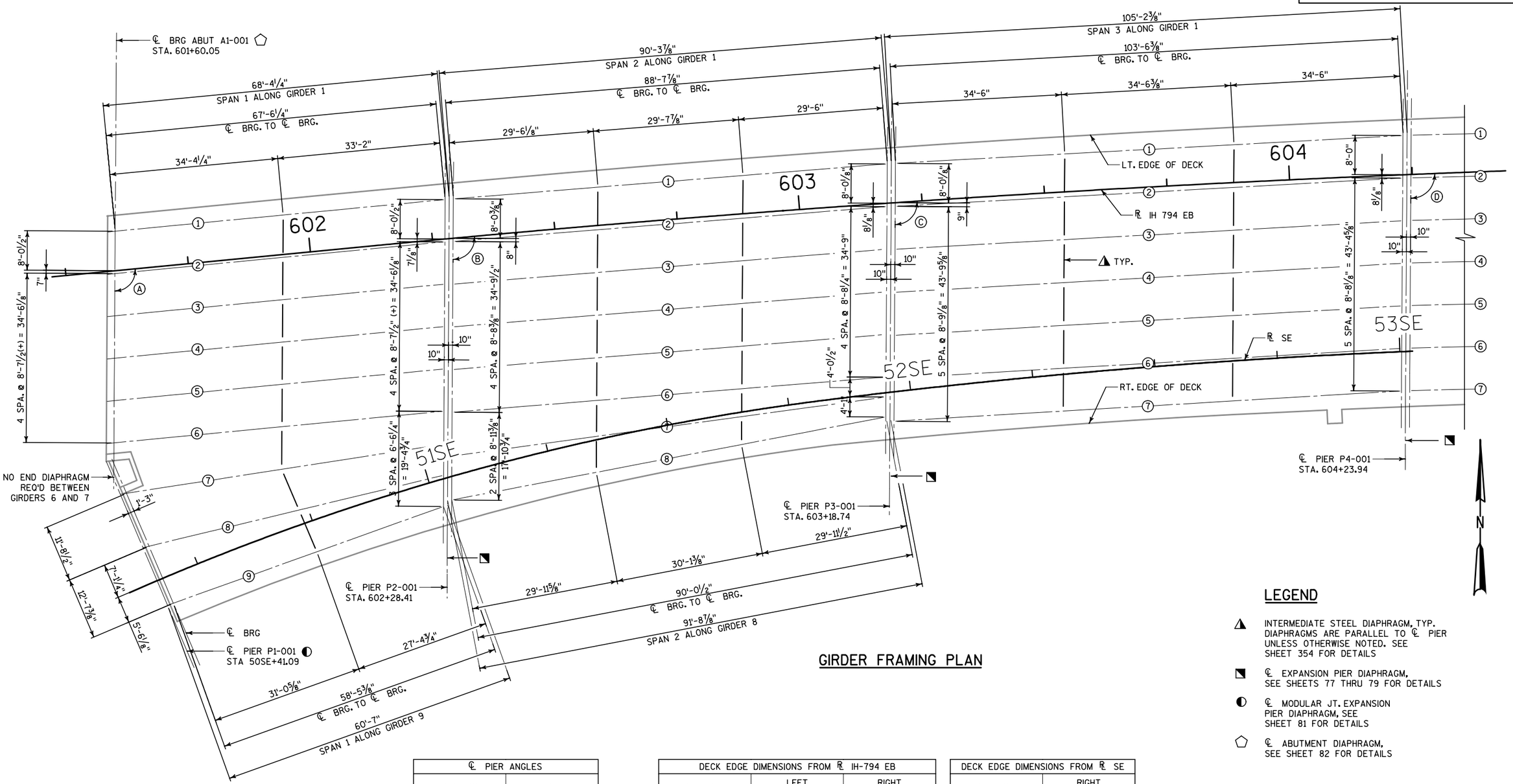
SHEET 63 OF 396

2931

FILE NAME: R:\C&bridges\1312\cds\1312-01C052D.dgn PEN TABLE: \\mtp\FinalDgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:28 Plotted by: emccrigh

STATE PROJECT NUMBER

1060-05-75



GIRDER FRAMING PLAN

℄ PIER ANGLES	
LOCATION	ANGLE
A	95°50'36"
B	95°37'00"
C	94°15'42"
D	92°41'01"

ANGLES ARE MEASURED FROM A LINE TANGENT TO ℞ AT ℄ PIER

DECK EDGE DIMENSIONS FROM ℞ IH-794 EB		
STATION	LEFT EDGE	RIGHT EDGE
601+65.92	11'-3"	72'-3⅞"
601+75.00	11'-3"	69'-6⅝"
602+00.00	11'-3"	62'-10⅝"
602+25.00	11'-3"	57'-7⅛"
602+50.00	11'-3"	53'-6"
602+75.00	11'-3"	50'-5⅝"
603+00.00	11'-3"	48'-6¼"
603+25.00	11'-3"	47'-10½"
603+50.00	11'-3"	47'-5½"
603+75.00	11'-3"	47'-3"
604+00.00	11'-3"	47'-3"
604+25.00	11'-3"	47'-3"

DECK EDGE DIMENSIONS FROM ℞ SE	
STATION	RIGHT EDGE
50SE+00	9'-3"
51SE+82.68	9'-3"
52SE+00	9'-8¼"
52SE+25	10'-6¼"
52SE+50	10'-7⅛"
52SE+75	11'-1"
53SE+00	11'-3"

LEGEND

- ▲ INTERMEDIATE STEEL DIAPHRAGM, TYP. DIAPHRAGMS ARE PARALLEL TO ℄ PIER UNLESS OTHERWISE NOTED. SEE SHEET 354 FOR DETAILS
- ◥◣ ℄ EXPANSION PIER DIAPHRAGM, SEE SHEETS 77 THRU 79 FOR DETAILS
- ◐ ℄ MODULAR JT. EXPANSION PIER DIAPHRAGM, SEE SHEET 81 FOR DETAILS
- ⬠ ℄ ABUTMENT DIAPHRAGM, SEE SHEET 82 FOR DETAILS

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	RWN	PLANS CK'D.	KES

GIRDER FRAMING PLAN 1

SHEET 64 OF 396

2932

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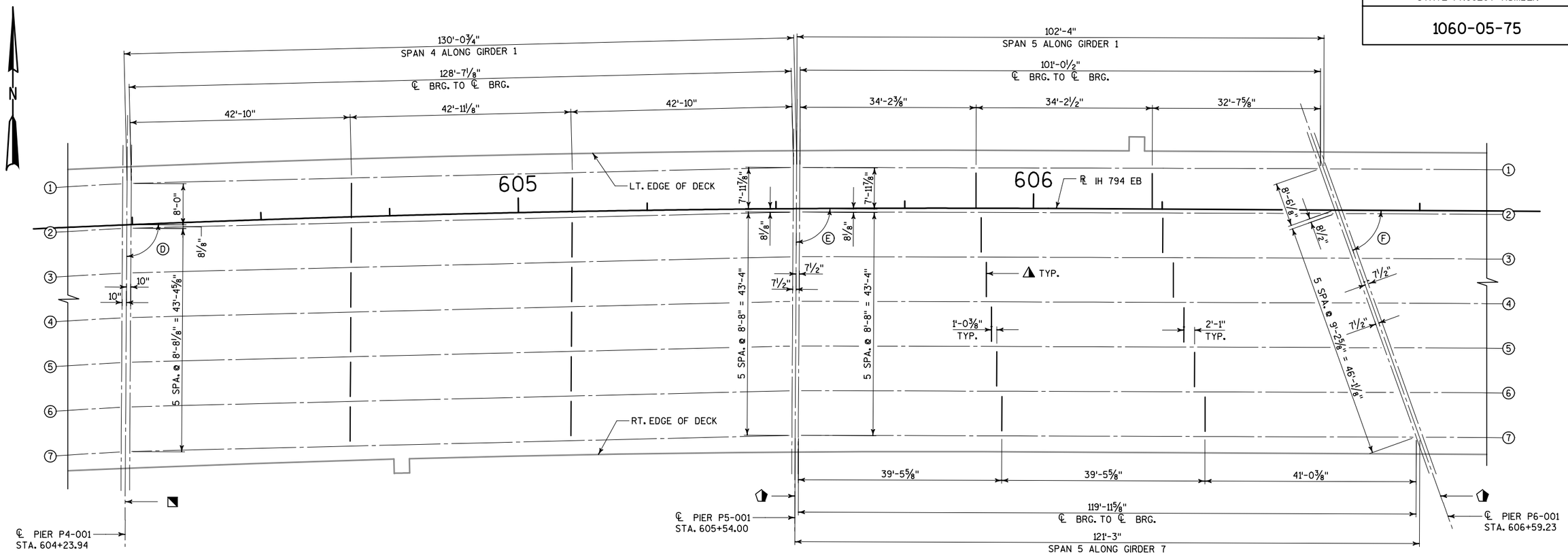
STATE PROJECT NUMBER

1060-05-75



GIRDER FRAMING PLAN

DECK EDGE DIMENSIONS FROM ℄ IH 794 EB		
STATION	LEFT EDGE	RIGHT EDGE
604+25.00	11'-3"	47'-3"
604+50.00	11'-3"	47'-3"
604+75.00	11'-3"	47'-3"
605+00.00	11'-3"	47'-3"
605+25.00	11'-3"	47'-3"
605+50.00	11'-3"	47'-3"
606+00.00	11'-3"	47'-3"
606+25.00	11'-3"	47'-3"
606+50.00	11'-3"	47'-3"
606+75.00	11'-3"	47'-3"

℄ PIER ANGLES	
LOCATION	ANGLE
D	92°41'01"
E	90°43'58"
F	70°00'00"

ANGLES ARE MEASURED FROM A LINE TANGENT TO ℄ AT ℄ PIER

LEGEND

- ⬟ ℄ FIXED PIER DIAPHRAGM, SEE SHEETS 77 THRU 79 FOR DETAILS
- ◭ INTERMEDIATE STEEL DIAPHRAGM, TYP. DIAPHRAGMS ARE PARALLEL TO ℄ PIER P5-001 UNLESS OTHERWISE NOTED. SEE SHT. 354 FOR DETAILS
- ◪ ℄ EXPANSION PIER DIAPHRAGM, SEE SHEETS 77 THRU 79 FOR DETAILS

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	RWN	KES

GIRDER FRAMING PLAN 2

SHEET 65 OF 396

2933

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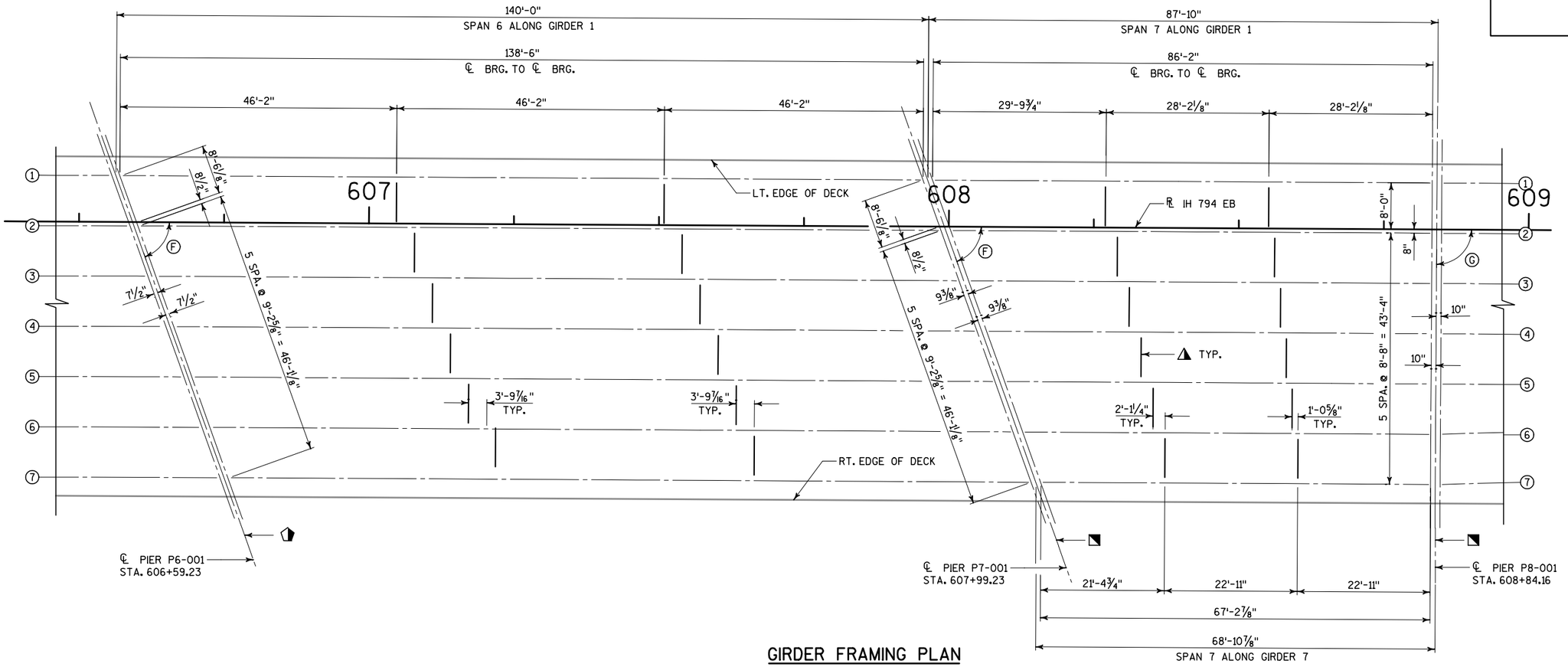
STATE PROJECT NUMBER
1060-05-75



GIRDER FRAMING PLAN

DECK EDGE DIMENSIONS FROM ℞ IH 794 EB		
STATION	LEFT EDGE	RIGHT EDGE
606+75.00	11'-3"	47'-3"
607+00.00	11'-3"	47'-3"
607+25.00	11'-3"	47'-3"
607+50.00	11'-3"	47'-3"
607+75.00	11'-3"	47'-3"
608+00.00	11'-3"	47'-3"
608+25.00	11'-3"	47'-3"
608+50.00	11'-3"	47'-3"
608+75.00	11'-3"	47'-3'
609+00.00	11'-3"	47'-3"

℄ PIER ANGLES	
LOCATION	ANGLE
F	70°00'00"
G	90°00'00"

ANGLES ARE MEASURED FROM A LINE TANGENT TO ℞ AT ℄ PIER

LEGEND

- ⬟ ℄ FIXED PIER DIAPHRAGM, SEE SHEETS 77 THRU 79 FOR DETAILS
- ◭ INTERMEDIATE STEEL DIAPHRAGM, TYP. DIAPHRAGMS ARE PARALLEL TO ℄ PIER P8-001 UNLESS OTHERWISE NOTED. SEE SHEET 354 FOR DETAILS
- ◥ ℄ EXPANSION PIER DIAPHRAGM, SEE SHEETS 77 THRU 79 FOR DETAILS

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

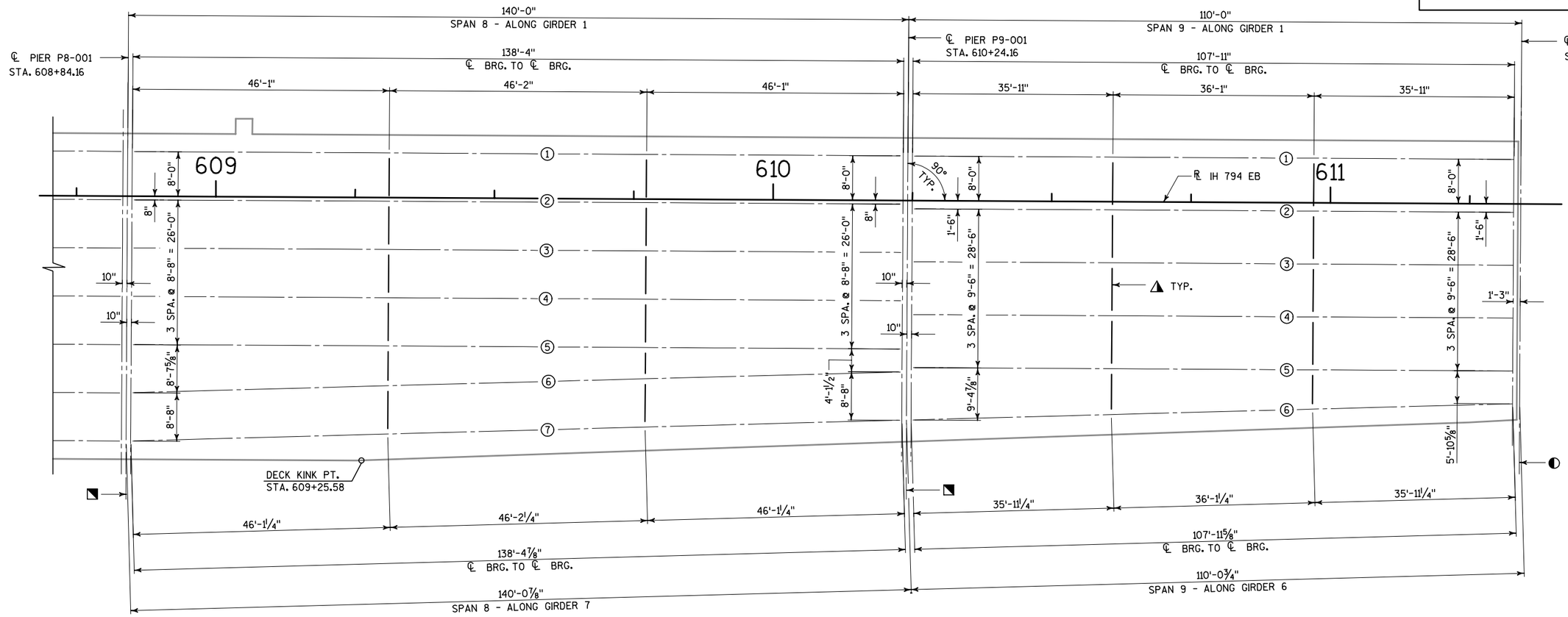
CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	RWN	KES

GIRDER FRAMING PLAN 3

SHEET 66 OF 396

2934

STATE PROJECT NUMBER
1060-05-75



GIRDER FRAMING PLAN

DECK EDGE DIMENSIONS FROM ℄ IH 794 EB		
STATION	LEFT EDGE	RIGHT EDGE
609+00.00	11'-3"	47'-3"
609+25.00	11'-3"	47'-3"
609+25.58	11'-3"	47'-3"
609+50.00	11'-3"	46'-3¼"
609+75.00	11'-3"	45'-3¼"
610+00.00	11'-3"	44'-3¼"
610+25.00	11'-3"	43'-3¼"
610+50.00	11'-3"	42'-3¼"
610+75.00	11'-3"	41'-3¼"
611+00.00	11'-3"	40'-3¼"
611+25.00	11'-3"	39'-3¼"
611+34.16	11'-3"	38'-10⅞"

LEGEND

▲ INTERMEDIATE STEEL DIAPHRAGM, TYP. DIAPHRAGMS ARE PARALLEL TO ℄ PIER UNLESS OTHERWISE NOTED. SEE SHEET 354 FOR DETAILS

◥ ℄ EXPANSION PIER DIAPHRAGM, SEE SHEETS 77 THRU 79 FOR DETAILS

◐ ℄ MODULAR JT. EXPANSION PIER DIAPHRAGM, SEE SHEET 81 FOR DETAILS

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	RWN	KES

GIRDER FRAMING PLAN 4

SHEET 67 OF 396

2935

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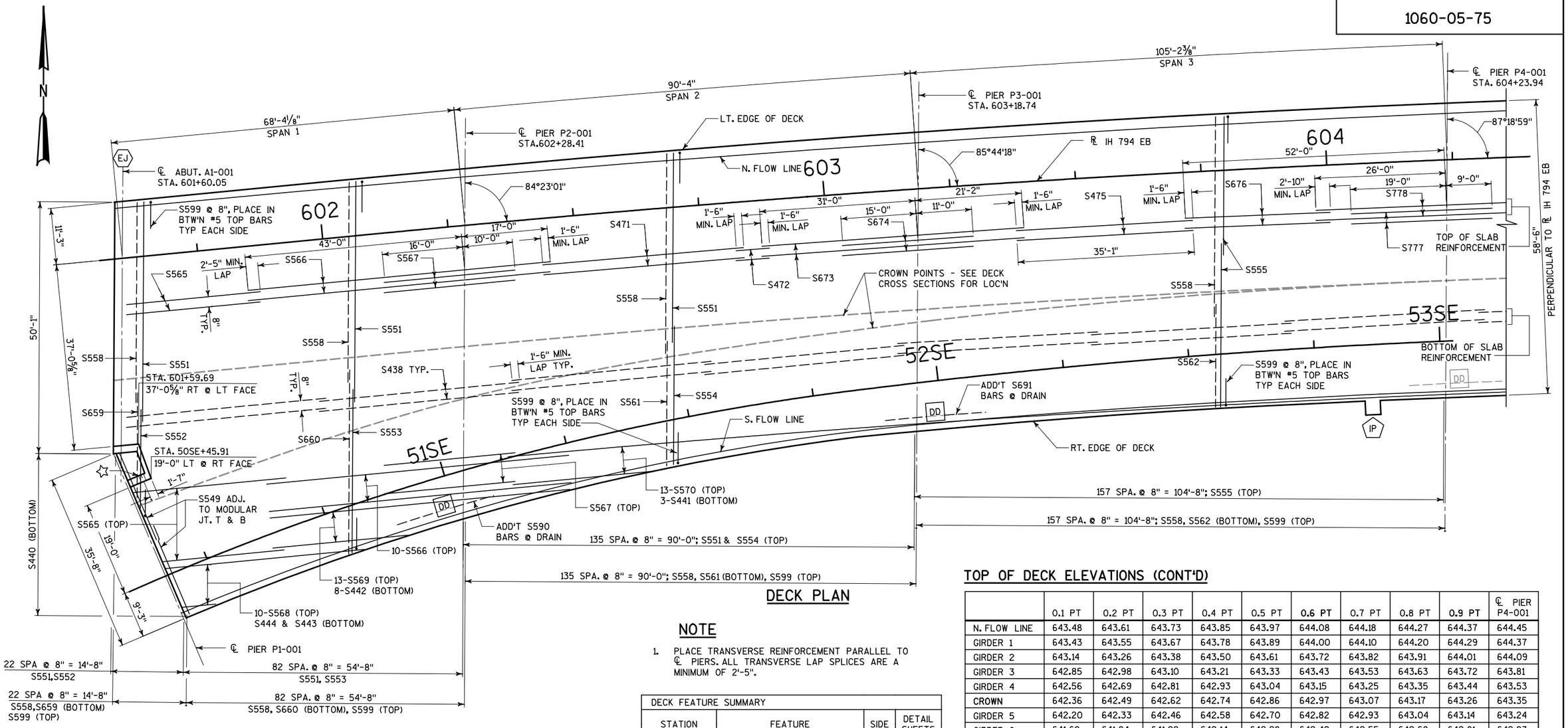
STATE PROJECT NUMBER
1060-05-75



DECK PLAN

NOTE

1. PLACE TRANSVERSE REINFORCEMENT PARALLEL TO ℄ PIERS. ALL TRANSVERSE LAP SPLICES ARE A MINIMUM OF 2'-5".

DECK FEATURE SUMMARY			
STATION	FEATURE	SIDE	DETAIL SHEETS
601+60.05	EXPANSION JOINT		365-368
602+19.23	DECK DRAIN - TYPE A	RIGHT	369-370
603+18.00	DECK DRAIN - TYPE B	RIGHT	371-372
604+07.00	ITS POLE		373-376

TOP OF DECK ELEVATIONS (CONT'D)

	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P4-001
N. FLOW LINE	643.48	643.61	643.73	643.85	643.97	644.08	644.18	644.27	644.37	644.45
GIRDER 1	643.43	643.55	643.67	643.78	643.89	644.00	644.10	644.20	644.29	644.37
GIRDER 2	643.14	643.26	643.38	643.50	643.61	643.72	643.82	643.91	644.01	644.09
GIRDER 3	642.85	642.98	643.10	643.21	643.33	643.43	643.53	643.63	643.72	643.81
GIRDER 4	642.56	642.69	642.81	642.93	643.04	643.15	643.25	643.35	643.44	643.53
CROWN	642.36	642.49	642.62	642.74	642.86	642.97	643.07	643.17	643.26	643.35
GIRDER 5	642.20	642.33	642.46	642.58	642.70	642.82	642.93	643.04	643.14	643.24
GIRDER 6	641.69	641.84	641.99	642.14	642.28	642.42	642.55	642.68	642.81	642.93
GIRDER 7	641.18	641.35	641.52	641.70	641.86	642.02	642.18	642.33	642.48	642.62
S. FLOW LINE	641.01	641.22	641.41	641.61	641.78	641.96	642.12	642.27	642.42	642.57

TOP OF DECK ELEVATIONS (GIVEN @ TOP OF OVERLAY)

	℄ ABUT A1-001	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P2-001	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P3-001
N. FLOW LINE	640.67	640.81	640.95	641.09	641.23	641.36	641.49	641.63	641.77	641.91	642.04	642.21	642.37	642.54	642.69	642.85	642.98	643.11	643.24	643.36	643.48
GIRDER 1	640.62	640.76	640.90	641.04	641.17	641.31	641.44	641.57	641.70	641.83	642.01	642.17	642.32	642.48	642.63	642.77	642.90	643.03	643.16	643.28	643.43
GIRDER 2	640.44	640.58	640.72	640.85	640.99	641.12	641.25	641.37	641.50	641.62	641.78	641.93	642.07	642.21	642.35	642.48	642.62	642.75	642.87	642.99	643.14
GIRDER 3	640.25	640.39	640.53	640.66	640.80	640.93	641.06	641.17	641.29	641.40	641.55	641.69	641.82	641.95	642.08	642.20	642.33	642.46	642.58	642.71	642.85
GIRDER 4	640.06	640.20	640.34	640.47	640.61	640.74	640.87	640.98	641.08	641.19	641.32	641.45	641.57	641.69	641.80	641.92	642.04	642.17	642.30	642.42	642.56
CROWN	639.91	640.06	640.20	640.34	640.48	640.61	640.75	640.86	640.96	641.06	641.15	641.28	641.40	641.51	641.62	641.73	641.85	641.99	642.11	642.24	642.36
GIRDER 5	639.82	639.95	640.08	640.21	640.33	640.46	640.58	640.68	640.78	640.87	641.00	641.11	641.23	641.33	641.44	641.55	641.67	641.79	641.93	642.06	642.20
GIRDER 6	639.38	639.49	639.60	639.70	639.80	639.90	640.00	640.09	640.19	640.30	640.42	640.54	640.67	640.78	640.89	641.01	641.13	641.25	641.39	641.53	641.69
GIRDER 7	638.79	638.88	638.98	639.09	639.21	639.33	639.45	639.57	639.71	639.85	639.85	640.00	640.16	640.30	640.45	640.60	640.75	640.91	641.07	641.25	641.18
GIRDER 8	638.25	638.35	638.45	638.56	638.68	638.81	638.94	639.09	639.24	639.41	639.27	639.45	639.65	639.83	640.01	640.19	640.37	640.56	640.76	640.97	641.22
GIRDER 9	637.68	637.78	637.89	638.00	638.13	638.26	638.42	638.59	638.77	638.96	639.19										
S. FLOW LINE	637.57	637.68	637.79	637.91	638.04	638.18	638.32	638.49	638.66	638.84	639.01	639.25	639.49	639.71	639.90	640.10	640.28	640.46	640.64	640.83	641.01

LEGEND

- (EJ) EXPANSION JOINT LOCATION.
- (IP) ITS POLE MOUNTING LOCATION.*
- DD DECK DRAIN LOCATION.*
- ☆ 3" DEEP X 1'-0" WIDE BLOCKOUT @ PARAPET BASE

* SEE DETAIL SHEETS FOR ADDITIONAL DECK REINFORCEMENT REQUIRED IN THIS AREA.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC. 2004	DRAWN BY RWN	PLANS CK'D. KES

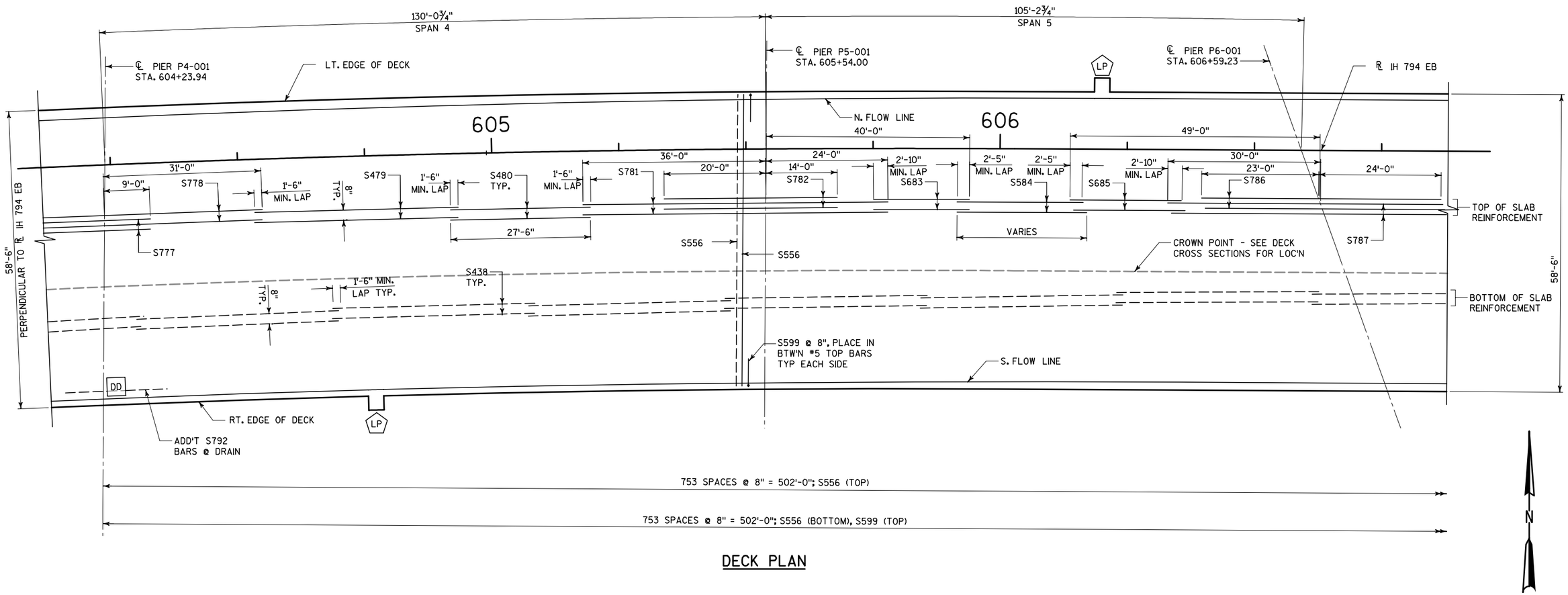
DECK PLAN / REINFORCEMENT 1

SHEET 68 OF 396

2936

8

STATE PROJECT NUMBER
1060-05-75



DECK PLAN

NOTE

1. PLACE TRANSVERSE REINFORCEMENT PARALLEL TO ℄ PIER P5-001. ALL TRANSVERSE LAP SPLICES ARE A MINIMUM OF 2'-5".

DECK FEATURE SUMMARY			
STATION	FEATURE	SIDE	DETAIL SHEETS
604+24.33	DECK DRAIN - TYPE B	RIGHT	371-372
604+76.00	LIGHT POLE	RIGHT	373-376
606+20.00	LIGHT POLE	LEFT	373-376

TOP OF DECK ELEVATIONS (GIVEN @ TOP OF OVERLAY)

	℄ PIER P4-001	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P5-001	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P6-001
N. FLOW LINE	644.53	644.62	644.70	644.77	644.83	644.89	644.93	644.97	644.99	644.99	644.98	644.96	644.94	644.92	644.89	644.85	644.81	644.76	644.71	644.65	644.58
GIRDER 1	644.47	644.55	644.63	644.69	644.75	644.81	644.85	644.89	644.92	644.93	644.92	644.91	644.89	644.87	644.84	644.81	644.77	644.73	644.68	644.62	644.55
GIRDER 2	644.19	644.27	644.35	644.42	644.48	644.53	644.57	644.61	644.64	644.67	644.69	644.69	644.68	644.67	644.66	644.64	644.61	644.58	644.54	644.50	644.44
GIRDER 3	643.91	643.99	644.07	644.14	644.20	644.25	644.30	644.33	644.37	644.41	644.45	644.47	644.48	644.48	644.48	644.47	644.46	644.44	644.42	644.39	644.34
GIRDER 4	643.63	643.71	643.79	643.86	643.92	643.97	644.02	644.06	644.09	644.15	644.22	644.25	644.27	644.29	644.30	644.31	644.31	644.31	644.30	644.28	644.25
CROWN	643.43	643.52	643.60	643.68	643.74	643.80	643.84	643.88	643.92	643.99	644.05	644.09	644.13	644.16	644.19	644.20	644.22	644.22	644.22	644.21	644.19
GIRDER 5	643.35	643.43	643.51	643.58	643.64	643.69	643.74	643.78	643.82	643.90	643.98	644.03	644.07	644.10	644.13	644.15	644.16	644.16	644.16	644.15	644.13
GIRDER 6	643.07	643.15	643.23	643.30	643.36	643.41	643.46	643.50	643.54	643.64	643.74	643.81	643.87	643.92	643.96	643.98	643.99	643.99	643.99	643.98	643.95
GIRDER 7	642.79	642.87	642.95	643.02	643.08	643.14	643.18	643.22	643.26	643.38	643.51	643.59	643.66	643.73	643.79	643.81	643.81	643.82	643.81	643.80	643.77
S. FLOW LINE	642.71	642.81	642.89	642.97	643.03	643.09	643.14	643.17	643.22	643.33	643.44	643.53	643.62	643.69	643.75	643.77	643.78	643.78	643.77	643.76	643.73

LEGEND

DD — DECK DRAIN LOCATION.*

LP — LIGHT POLE MOUNTING LOCATION.*

* SEE DETAIL SHEETS FOR ADDITIONAL DECK REINFORCEMENT REQUIRED IN THIS AREA.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC. 2004	DRAWN BY RWN	PLANS CK'D. KES

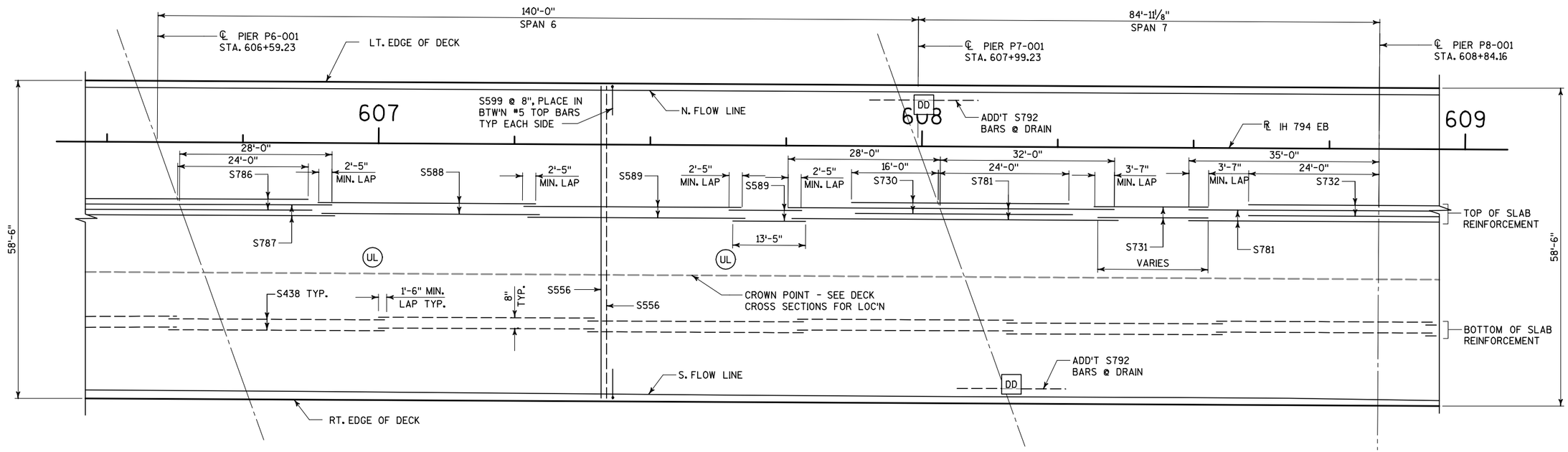
DECK PLAN / REINFORCEMENT 2

SHEET 69 OF 396

2937

8

STATE PROJECT NUMBER
1060-05-75



DECK PLAN

NOTE

1. PLACE TRANSVERSE REINFORCEMENT PARALLEL TO ℄ PIERS. ALL TRANSVERSE LAP SPLICES ARE A MINIMUM OF 2'-5".

DECK FEATURE SUMMARY			
STATION	FEATURE	SIDE	DETAIL SHEETS
606+99.00	UNDERDECK LIGHT ANCHORAGE	21'-0" RT.	396
607+64.00	UNDERDECK LIGHT ANCHORAGE	21'-0" RT.	396
608+00.14	DECK DRAIN - TYPE B	LEFT	371-372
608+16.05	DECK DRAIN - TYPE B	RIGHT	371-372

TOP OF DECK ELEVATIONS (GIVEN @ TOP OF OVERLAY)

	℄ PIER P6-001	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P7-001	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P8-001
N. FLOW LINE	644.58	644.49	644.38	644.26	644.13	644.00	643.85	643.69	643.52	643.34	643.15	643.02	642.89	642.76	642.62	642.48	642.33	642.19	642.05	641.91	641.76
GIRDER 1	644.55	644.46	644.36	644.24	644.12	643.99	643.85	643.69	643.53	643.36	643.14	643.02	642.90	642.77	642.64	642.51	642.37	642.24	642.10	641.96	641.78
GIRDER 2	644.44	644.37	644.28	644.18	644.08	643.96	643.84	643.70	643.56	643.40	643.20	643.10	642.99	642.88	642.76	642.64	642.52	642.39	642.26	642.13	641.95
GIRDER 3	644.34	644.28	644.21	644.13	644.04	643.95	643.84	643.72	643.59	643.45	643.27	643.18	643.09	642.99	642.89	642.79	642.68	642.55	642.43	642.30	642.13
GIRDER 4	644.25	644.20	644.15	644.09	644.02	643.94	643.84	643.74	643.63	643.51	643.35	643.27	643.19	643.11	643.02	642.93	642.83	642.71	642.59	642.47	642.30
CROWN	644.19	644.16	644.12	644.07	644.01	643.94	643.85	643.76	643.66	643.55	643.42	643.35	643.28	643.20	643.12	643.03	642.93	642.81	642.69	642.57	642.44
GIRDER 5	644.13	644.10	644.06	644.01	643.95	643.88	643.80	643.70	643.60	643.49	643.35	643.28	643.21	643.13	643.06	642.98	642.88	642.76	642.65	642.53	642.37
GIRDER 6	643.95	643.92	643.88	643.82	643.76	643.69	643.60	643.51	643.41	643.29	643.15	643.08	643.01	642.94	642.86	642.78	642.68	642.58	642.46	642.35	642.19
GIRDER 7	643.77	643.74	643.69	643.64	643.57	643.49	643.41	643.31	643.21	643.09	642.94	642.88	642.81	642.74	642.67	642.59	642.49	642.39	642.28	642.17	642.02
S. FLOW LINE	643.73	643.70	643.65	643.59	643.53	643.45	643.36	643.26	643.16	643.04	642.91	642.84	642.77	642.70	642.63	642.55	642.44	642.34	642.23	642.11	642.00

LEGEND

DD — DECK DRAIN LOCATION. *

UL — UNDERDECK LIGHTING ANCHORAGE LOCATION.

* SEE DETAIL SHEETS FOR ADDITIONAL DECK REINFORCEMENT REQUIRED IN THIS AREA.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	RWN	PLANS CK'D.	KES

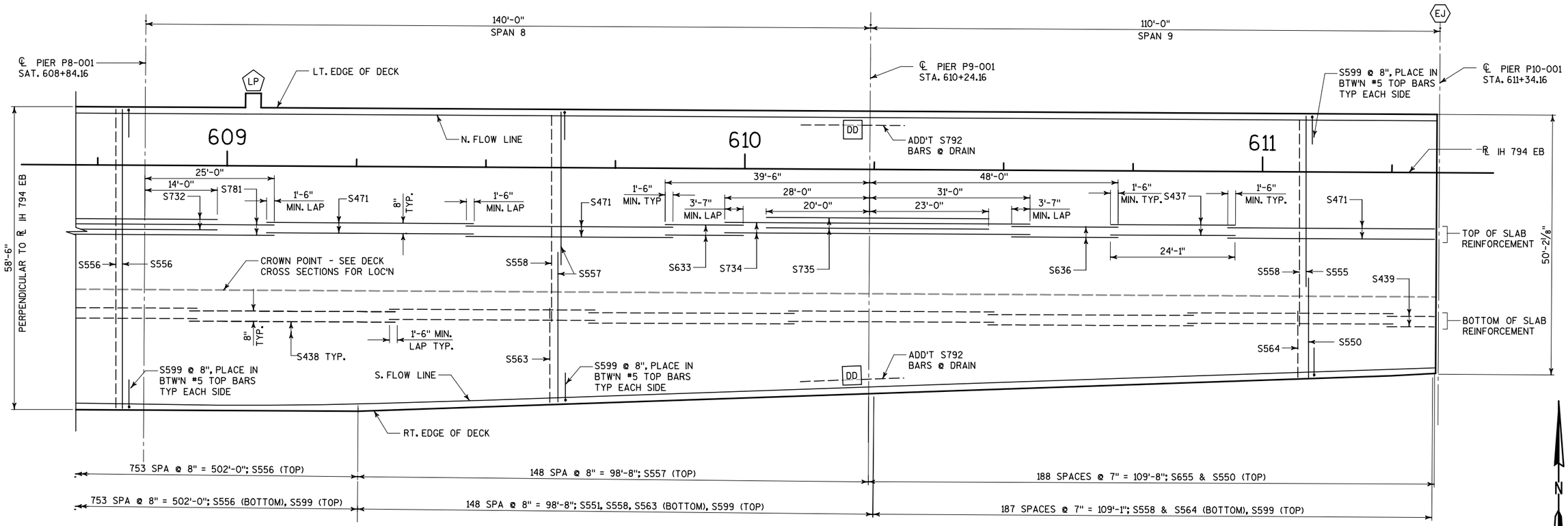
DECK PLAN / REINFORCEMENT 3

SHEET 70 OF 396

2938

8

STATE PROJECT NUMBER
1060-05-75



DECK PLAN

NOTE

1. PLACE TRANSVERSE REINFORCEMENT PARALLEL TO ℄ PIERS. ALL TRANSVERSE LAP SPLICES ARE A MINIMUM OF 2'-5".

DECK FEATURE SUMMARY			
STATION	FEATURE	SIDE	DETAIL SHEETS
609+05.00	LIGHT POLE	LEFT	373-376
610+20.79	DECK DRAIN - TYPE B	LEFT	371-372
610+20.98	DECK DRAIN - TYPE B	RIGHT	371-372
611+34.15	EXPANSION JOINT		365-368

LEGEND

- (EJ) EXPANSION JOINT LOCATION.
- [DD] DECK DRAIN LOCATION.*
- (LP) LIGHT POLE MOUNTING LOCATION.*

* SEE DETAIL SHEETS FOR ADDITIONAL DECK REINFORCEMENT REQUIRED IN THIS AREA.

TOP OF DECK ELEVATIONS (GIVEN @ TOP OF OVERLAY)

	℄ PIER P8-001	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P9-001	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P10-001
N. FLOW LINE	641.76	641.52	641.26	641.00	640.72	640.44	640.14	639.84	639.52	639.19	638.86	638.59	638.32	638.05	637.78	637.51	637.24	636.97	636.70	636.43	636.16
GIRDER 1	641.78	641.54	641.29	641.03	640.76	640.48	640.19	639.89	639.57	639.25	638.87	638.60	638.34	638.08	637.81	637.55	637.29	637.02	636.76	636.50	636.23
GIRDER 2	641.95	641.71	641.46	641.20	640.93	640.65	640.36	640.06	639.75	639.43	639.06	638.79	638.53	638.27	638.00	637.74	637.48	637.21	636.95	636.69	636.42
GIRDER 3	642.13	641.89	641.63	641.37	641.10	640.82	640.53	640.23	639.92	639.60	639.25	638.98	638.72	638.46	638.19	637.93	637.67	637.40	637.14	636.88	636.61
GIRDER 4	642.30	642.06	641.81	641.55	641.28	641.00	640.71	640.41	640.09	639.77	639.44	639.17	638.91	638.65	638.38	638.12	637.86	637.59	637.33	637.07	636.80
CROWN	642.44	642.19	641.94	641.68	641.40	641.12	640.82	640.51	640.20	639.87	639.54	639.27	639.00	638.73	638.46	638.19	637.92	637.65	637.38	637.11	636.84
GIRDER 5	642.37	642.13	641.87	641.61	641.34	641.06	640.77	640.47	640.16	639.84	639.39	639.12	638.86	638.60	638.33	638.07	637.81	637.54	637.28	637.02	636.75
GIRDER 6	642.19	641.96	641.72	641.47	641.21	640.94	640.65	640.36	640.06	639.75	639.20	638.94	638.69	638.43	638.17	637.92	637.66	637.41	637.15	636.89	636.64
GIRDER 7	642.02	641.79	641.55	641.30	641.03	640.76	640.48	640.19	639.89	639.58	639.23										
S. FLOW LINE	642.00	641.76	641.50	641.24	640.97	640.70	640.42	640.12	639.82	639.50	639.17	638.91	638.65	638.39	638.13	637.87	637.61	637.35	637.09	636.83	636.57

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	RWN	PLANS CK'D.	KES

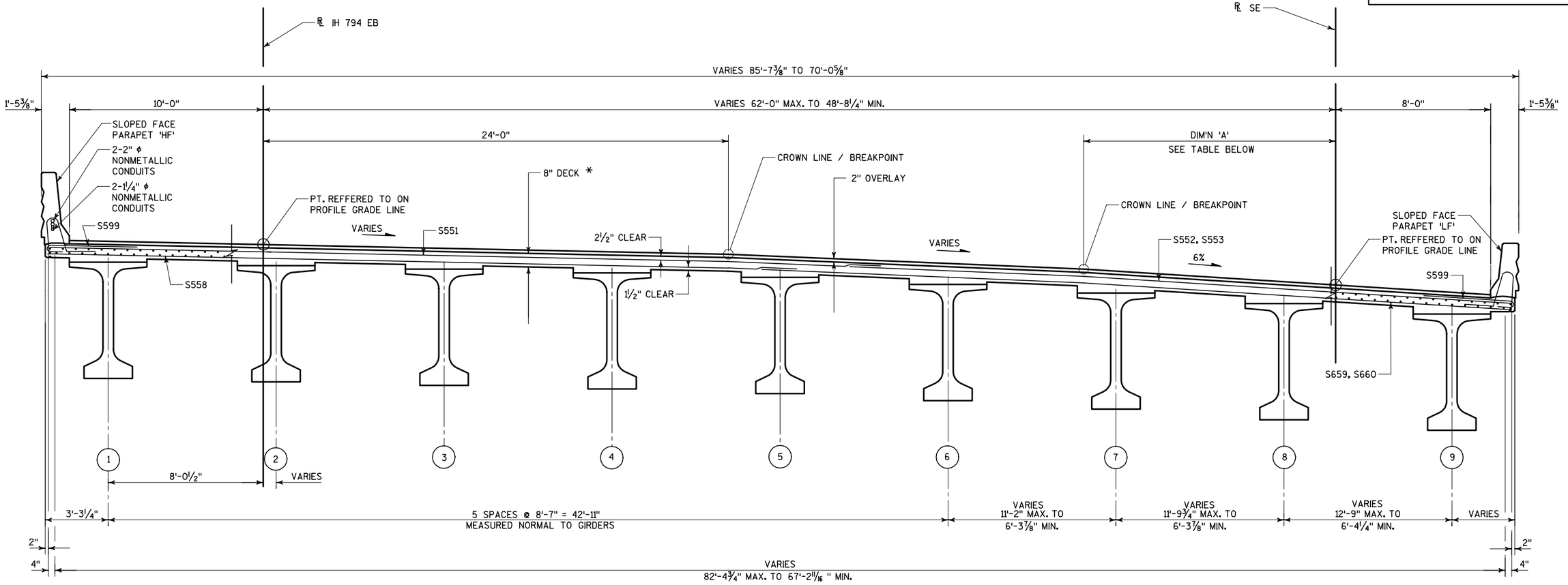
DECK PLAN / REINFORCEMENT 4

SHEET 71 OF 396

2939

8

STATE PROJECT NUMBER
1060-05-75



DECK SECTION

LOOKING EAST, TYP.
(SPAN 1)

NOTES

1. FOR DECK REINFORCEMENT, SEE DECK PLAN / REINFORCEMENT SHEETS

* THE CONTRACTOR HAS THE OPTION TO USE PRECAST CONCRETE DECK PANELS INSTEAD OF TRADITIONAL FORMING METHODS. SEE SHEET 353 FOR DETAILS.

CROWN POINT OFFSET 'A'	
STATION	DIM'N 'A'
<= 50SE+25	15'-0"
50SE+50	14'-11½"
50SE+75	14'-4¾"
51SE+00	13'-10"
51SE+25	13'-3⅜"
51SE+50	12'-8⅝"
51SE+75	12'-2"
>= 52SE+00	12'-0"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	DJS	KES

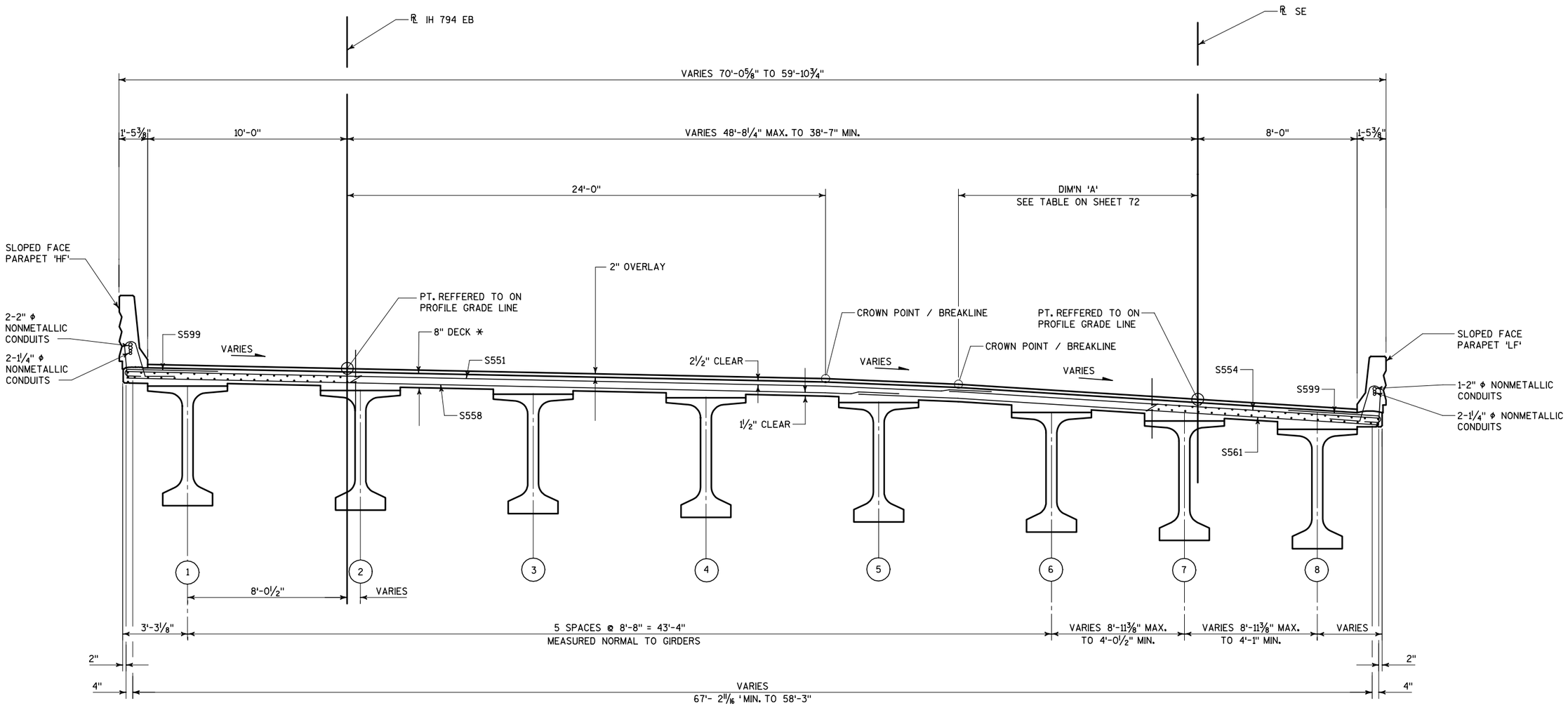
DECK CROSS SECTION 1

SHEET 72 OF 396

2940

8

STATE PROJECT NUMBER
1060-05-75



DECK SECTION

(SPAN 2)

NOTES:

FOR DECK REINFORCEMENT, SEE DECK PLAN / REINFORCEMENT SHEETS.

* THE CONTRACTOR HAS THE OPTION TO USE PRECAST CONCRETE DECK PANELS INSTEAD OF TRADITIONAL FORMING METHODS. SEE SHEET 353 FOR DETAILS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	DJS	KES

DECK CROSS SECTION 2

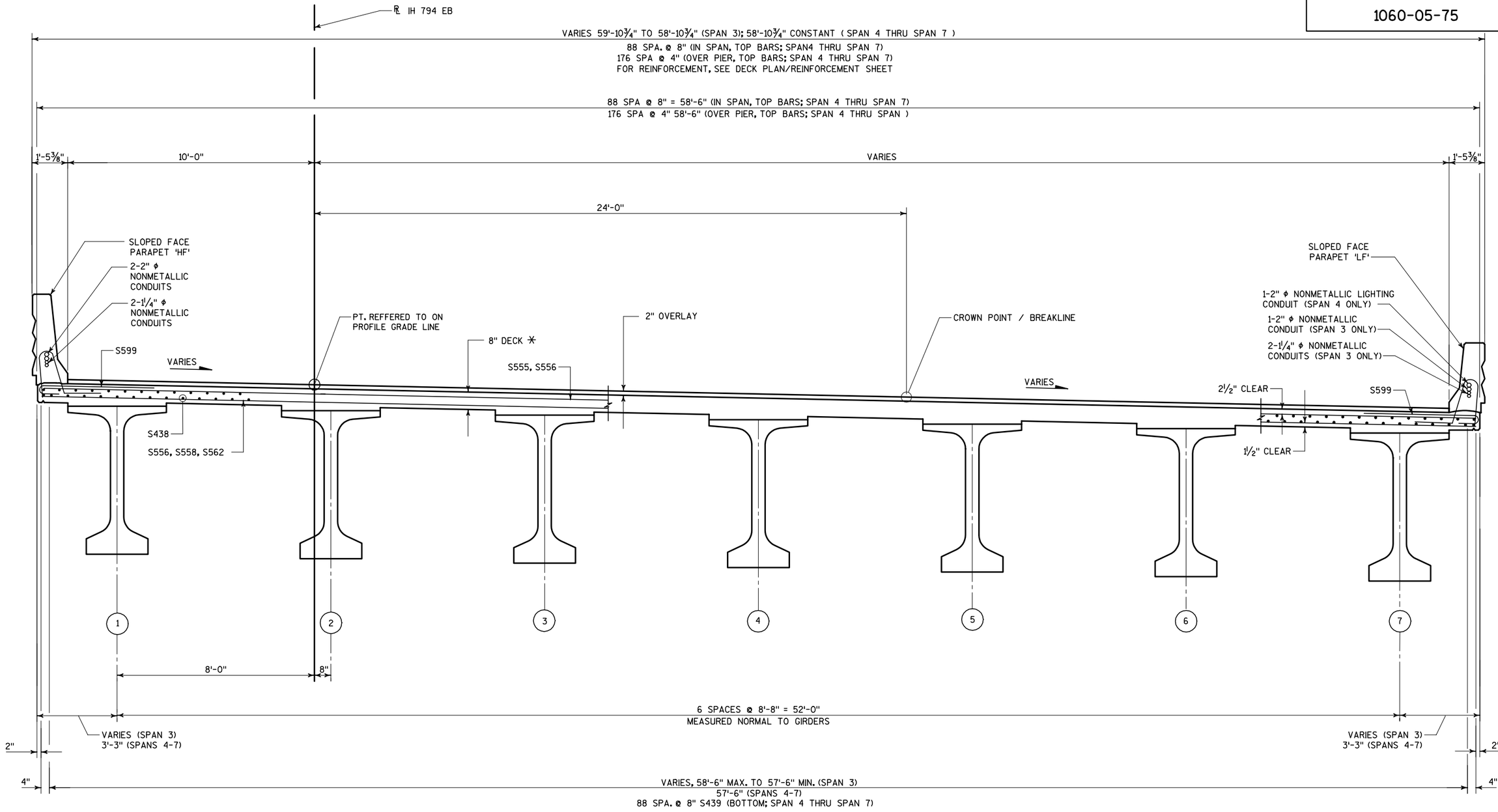
SHEET 73 OF 396

2941

8

STATE PROJECT NUMBER

1060-05-75



DECK SECTION

(SPANS 3 THRU 7)

NOTES:

FOR DECK REINFORCEMENT, SEE DECK PLAN, REINFORCEMENT.

✳ THE CONTRACTOR HAS THE OPTION TO USE PRECAST CONCRETE PANELS INSTEAD OF TRADITIONAL FORMING METHODS. SEE SHEET 353 FOR DETAILS AND THE SPECIFICATIONS FOR DESIGN REQUIREMENTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	DJS	KES

DECK CROSS SECTION 3

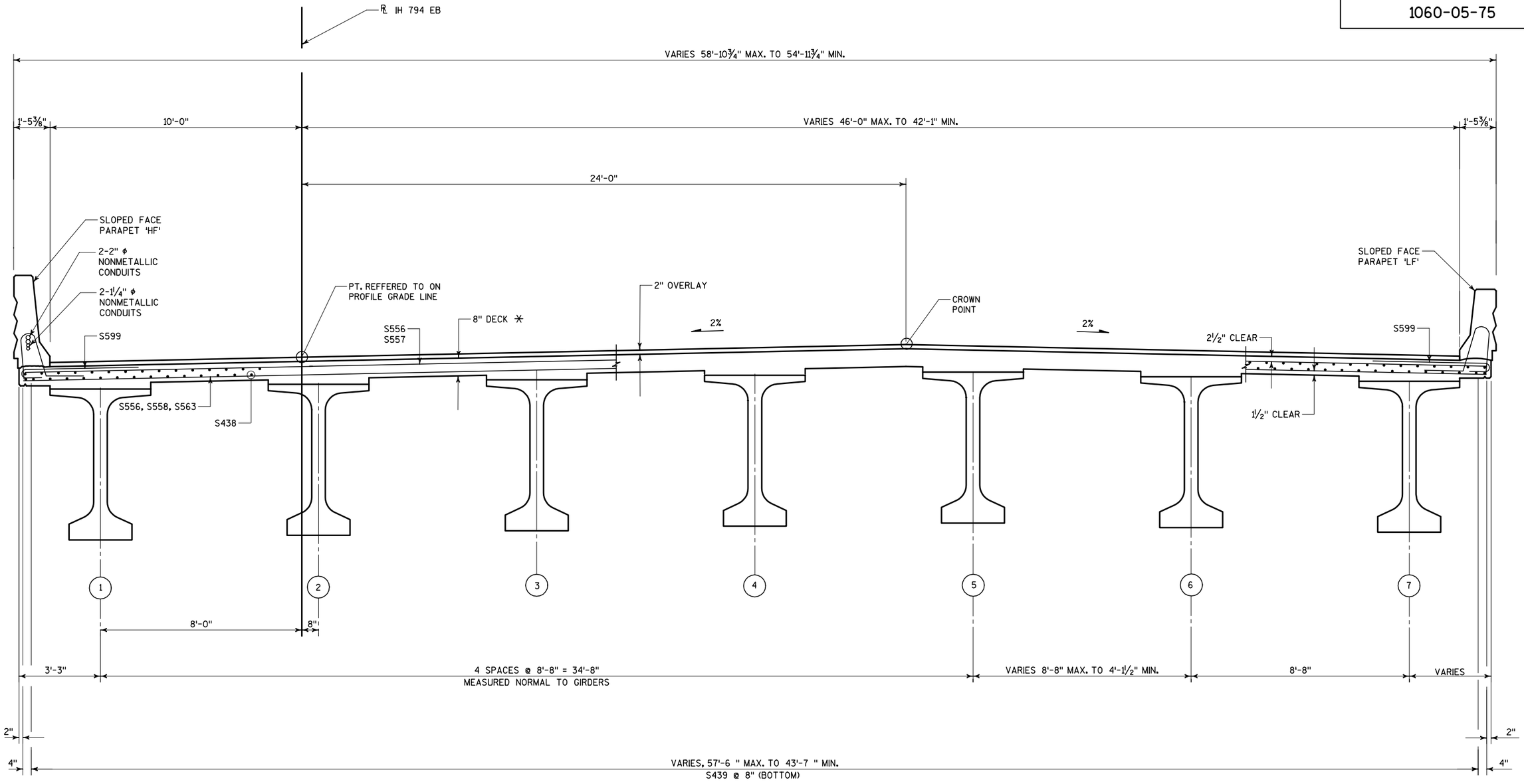
SHEET 74 OF 396

2942

8

STATE PROJECT NUMBER

1060-05-75



DECK SECTION

(SPAN 8)

NOTES:

FOR DECK REINFORCEMENT, SEE DECK PLAN, REINFORCEMENT.

✳ THE CONTRACTOR HAS THE OPTION TO USE PRECAST CONCRETE PANELS INSTEAD OF TRADITIONAL FORMING METHODS. SEE SHEET 353 FOR DETAILS AND THE SPECIFICATIONS FOR DESIGN REQUIREMENTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	DJS	KES

DECK CROSS SECTION 4

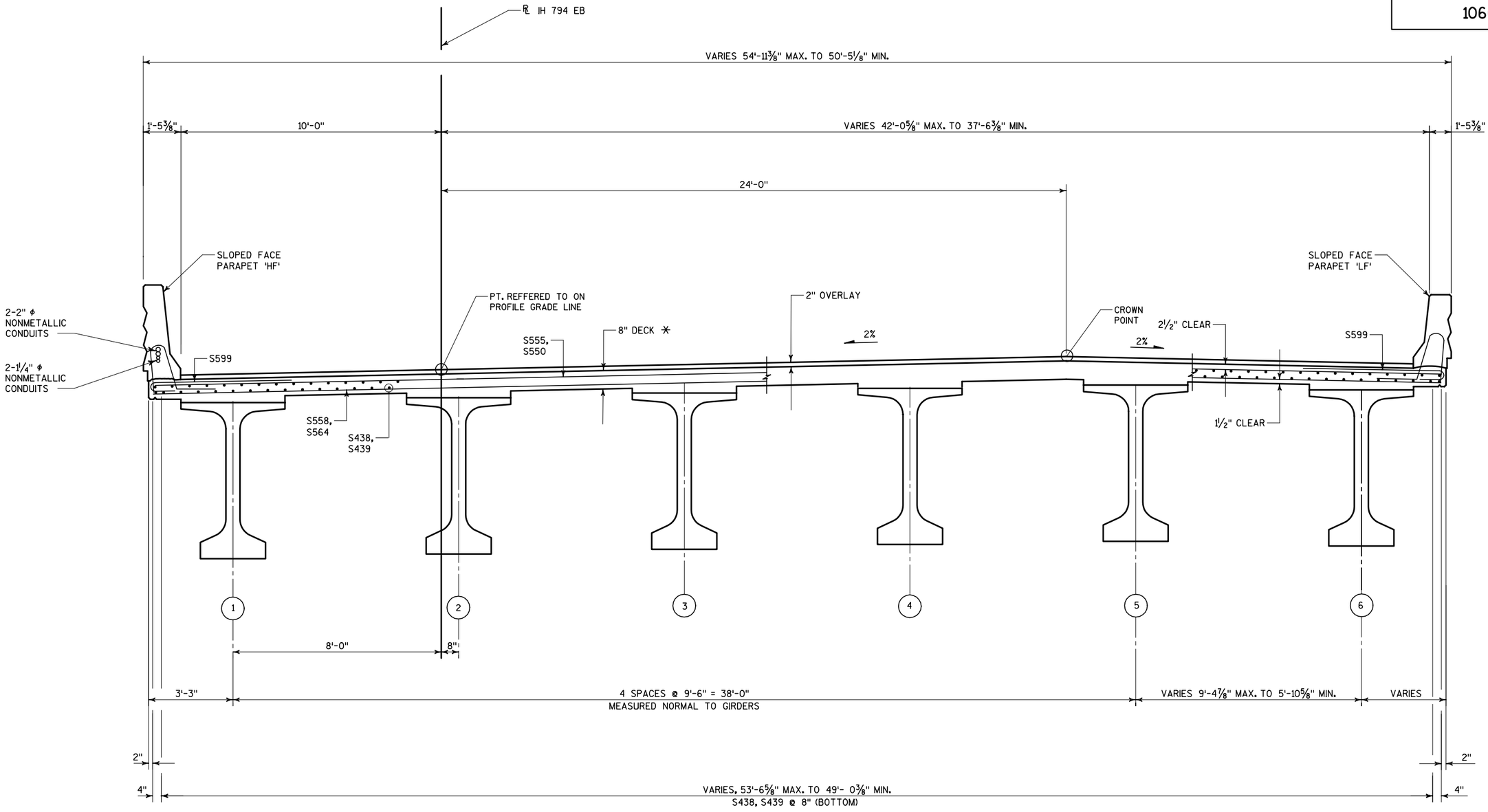
SHEET 75 OF 396

2943

8

STATE PROJECT NUMBER

1060-05-75



DECK SECTION

(SPANS 9)

NOTES:

FOR DECK REINFORCEMENT, SEE DECK PLAN, REINFORCEMENT.

✳ THE CONTRACTOR HAS THE OPTION TO USE PRECAST CONCRETE PANELS INSTEAD OF TRADITIONAL FORMING METHODS. SEE SHEET 353 FOR DETAILS AND THE SPECIFICATIONS FOR DESIGN REQUIREMENTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	DJS	PLANS CK'D.	KES

DECK CROSS SECTION 4

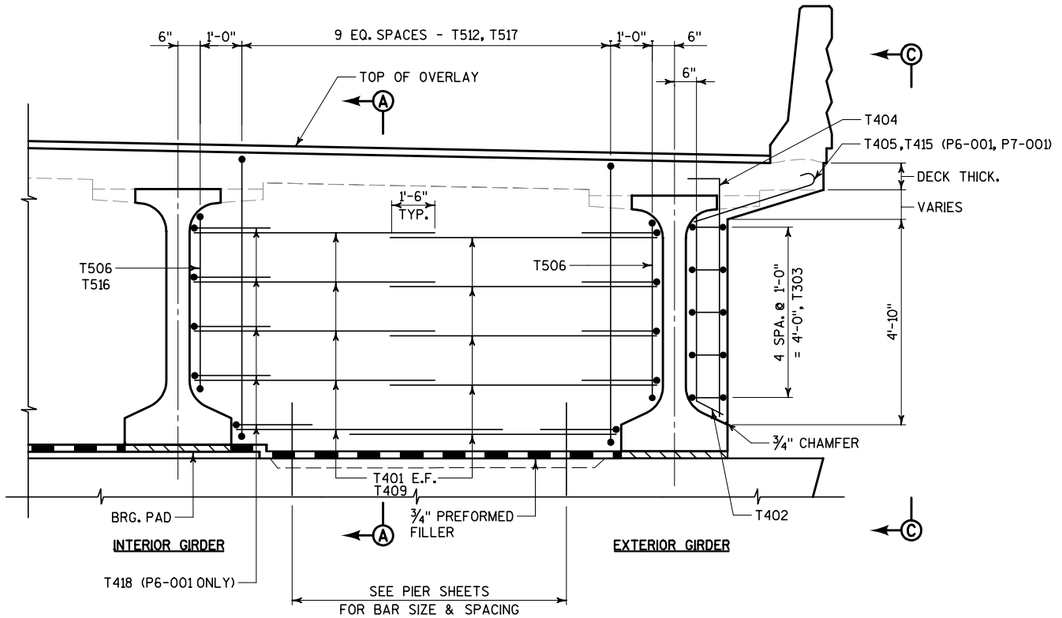
SHEET 76 OF 396

2944

8

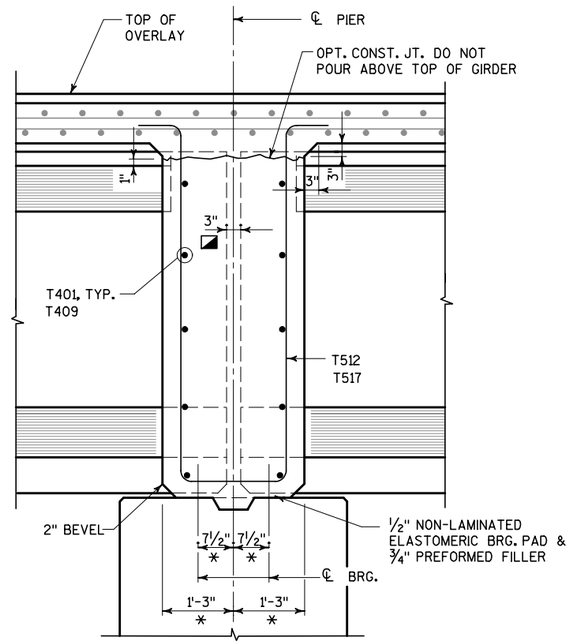
STATE PROJECT NUMBER

1060-05-75

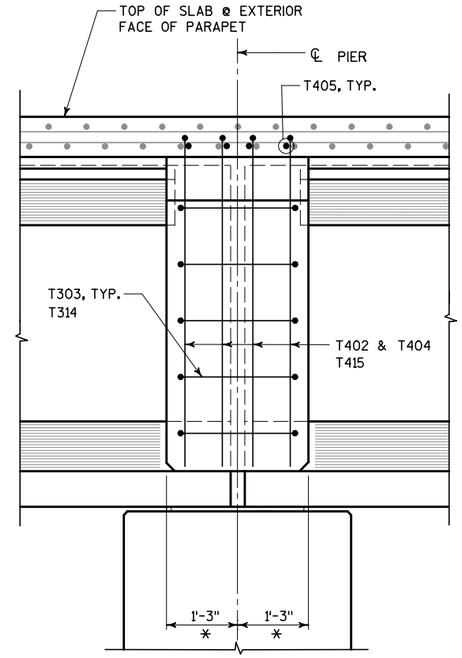


PART TRANSVERSE SECTION AT FIXED PIER DIAPHRAGM

SECTION APPLIES AT PIERS P5-001, P6-001 AND P8-001

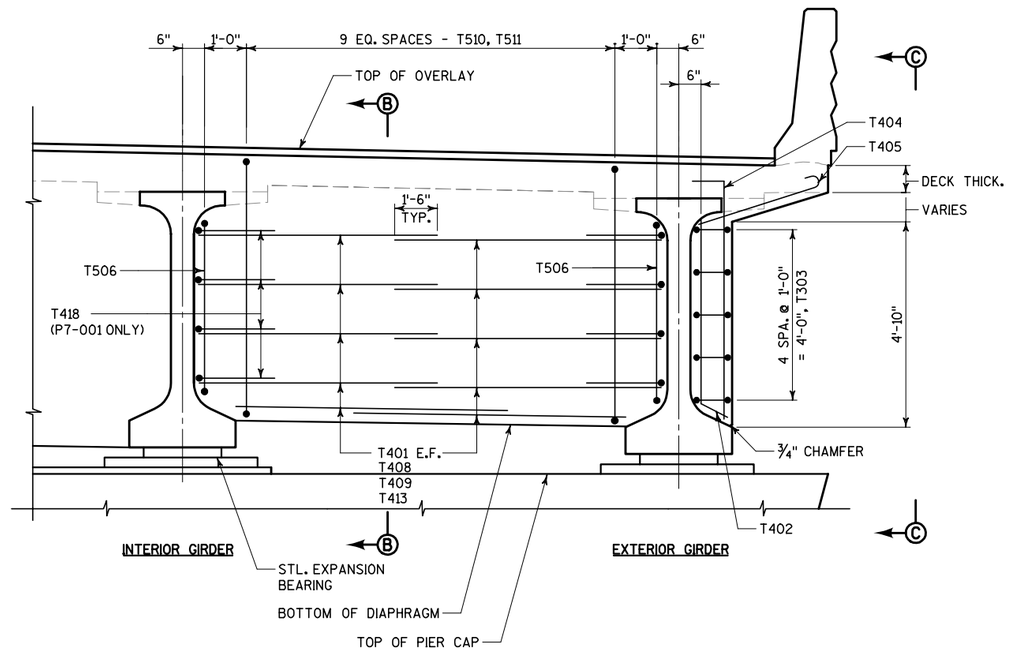


SECTION A-A



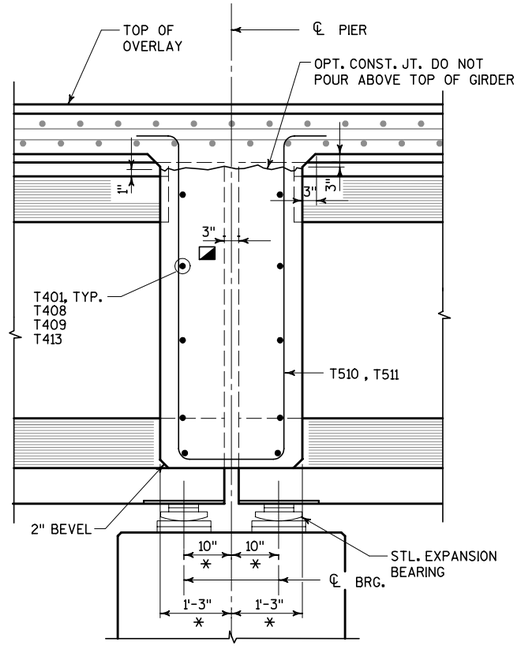
SECTION C-C

(FIXED DIAPHRAGM SHOWN, EXPANSION DIAPHRAGM SIMILAR)



PART TRANSVERSE SECTION AT EXPANSION PIER DIAPHRAGM

SECTION APPLIES AT PIERS P4-001, P7-001 AND P9-001



SECTION B-B

LEGEND

* DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS.

◪ DIMENSION IS TAKEN PARALLEL TO ℄ GIRDER.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	RWN	KES

SUPERSTRUCTURE DETAILS 1

SHEET 77 OF 396

2945

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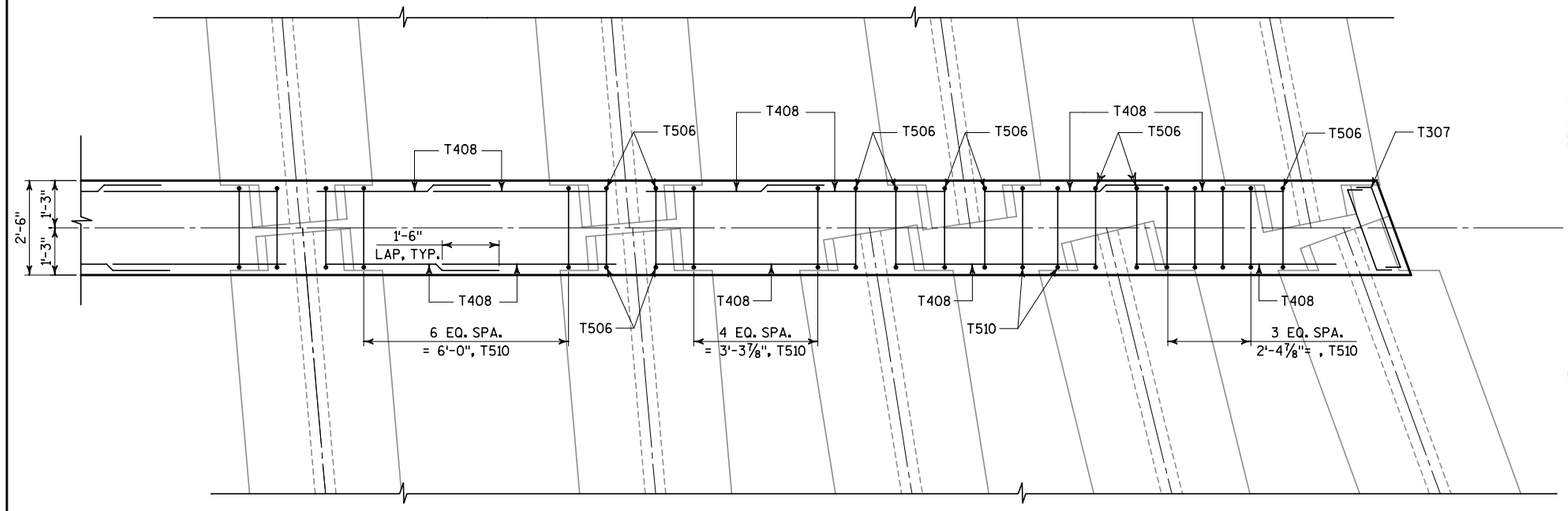
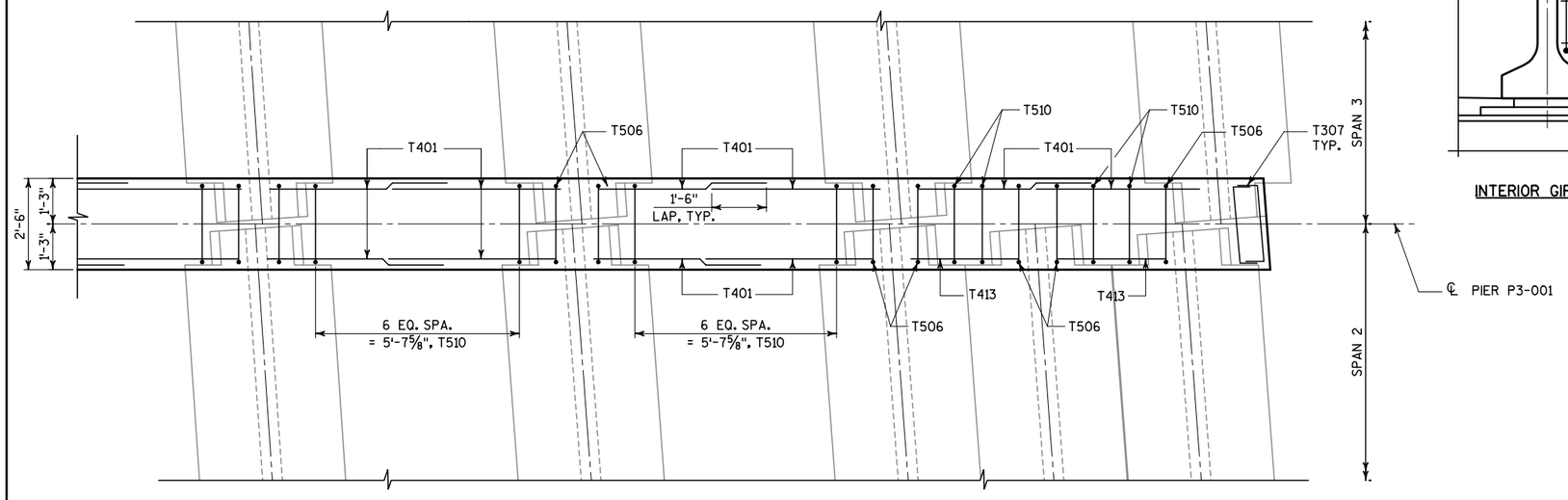
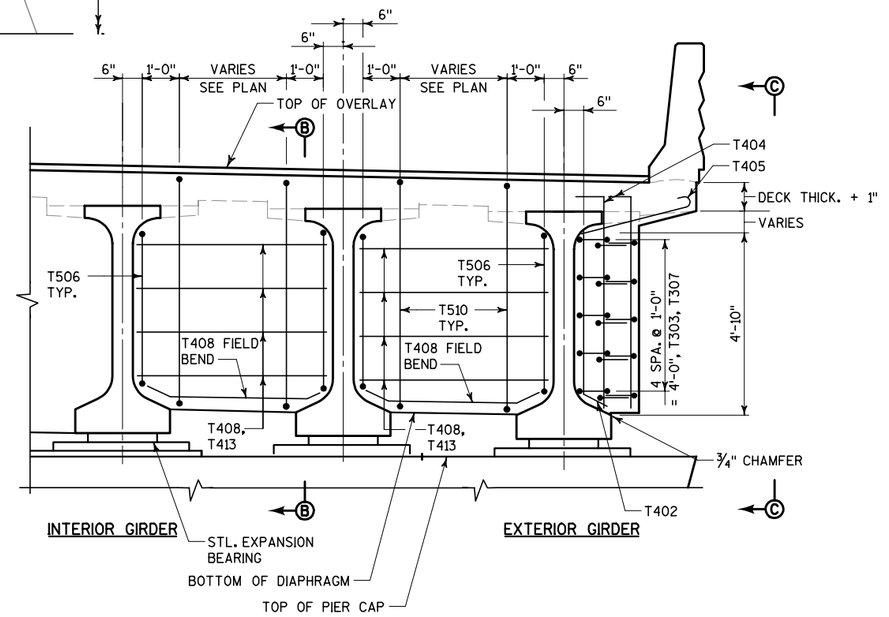
STATE PROJECT NUMBER
1060-05-75



DIAPHRAGM PLAN - PIER P2-001



DIAPHRAGM PLAN - PIER P3-001



PART TRANSVERSE SECTION
AT EXPANSION PIER DIAPHRAGM

SECTION APPLIES AT PIERS P2-001 AND P3-001
SEE SHEET 77 FOR SECTIONS B AND C

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

SUPERSTRUCTURE DETAILS 2

SHEET 78 OF 396

2946

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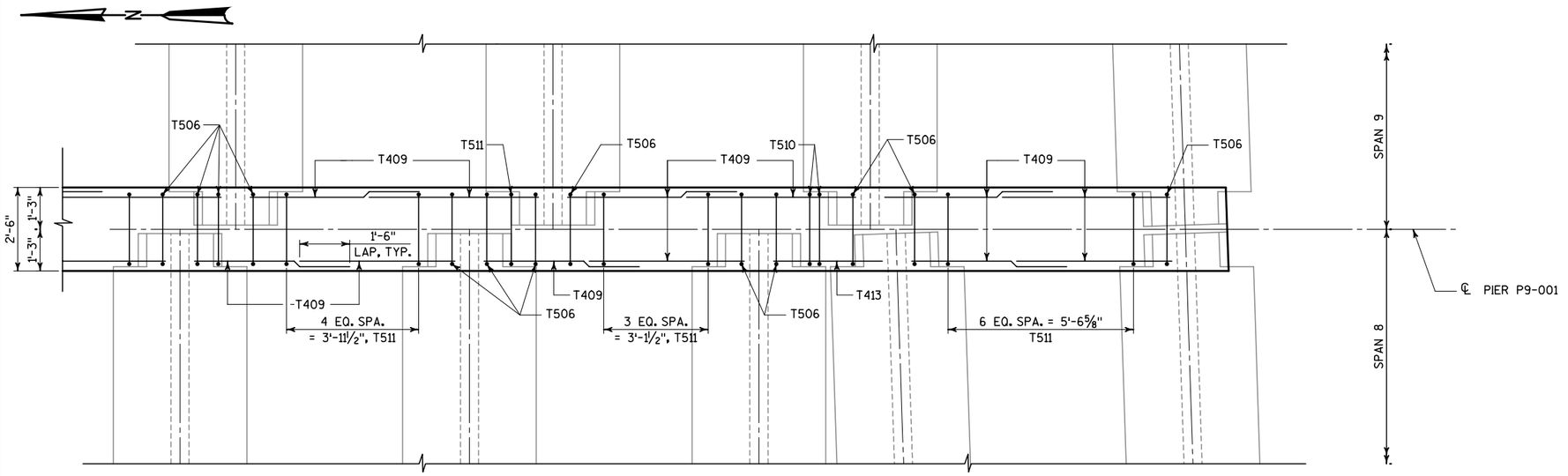
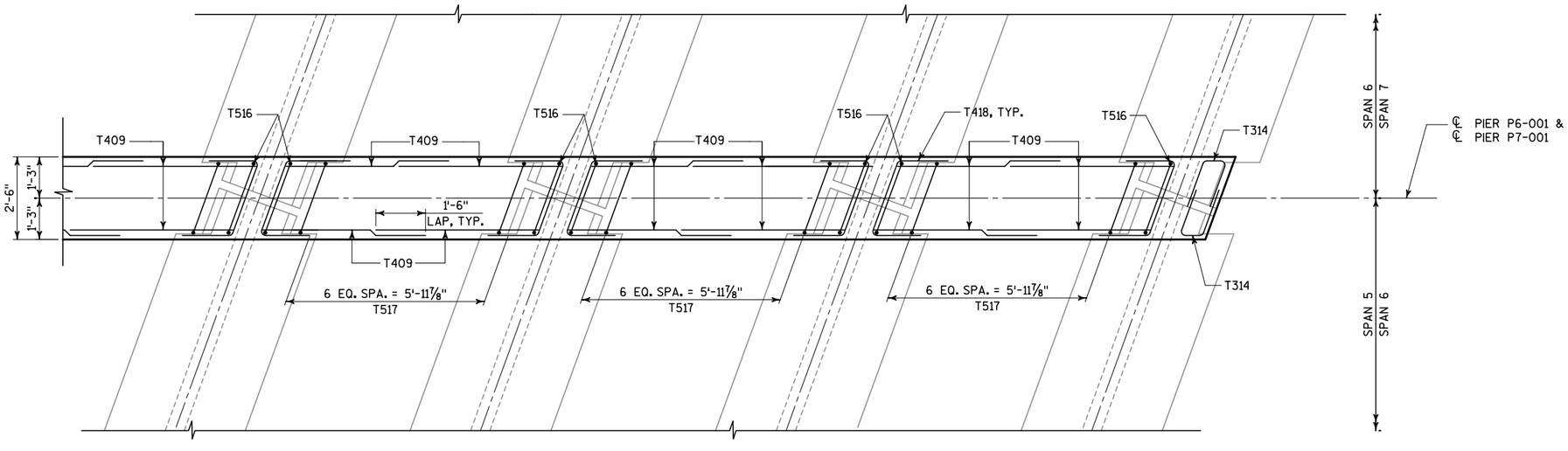
STATE PROJECT NUMBER
1060-05-75



DIAPHRAGM PLAN PIER P9-001



DIAPHRAGM PLAN - PIERS P6-001 AND P7-001

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

SUPERSTRUCTURE DETAILS 3

SHEET 79 OF 396

2947

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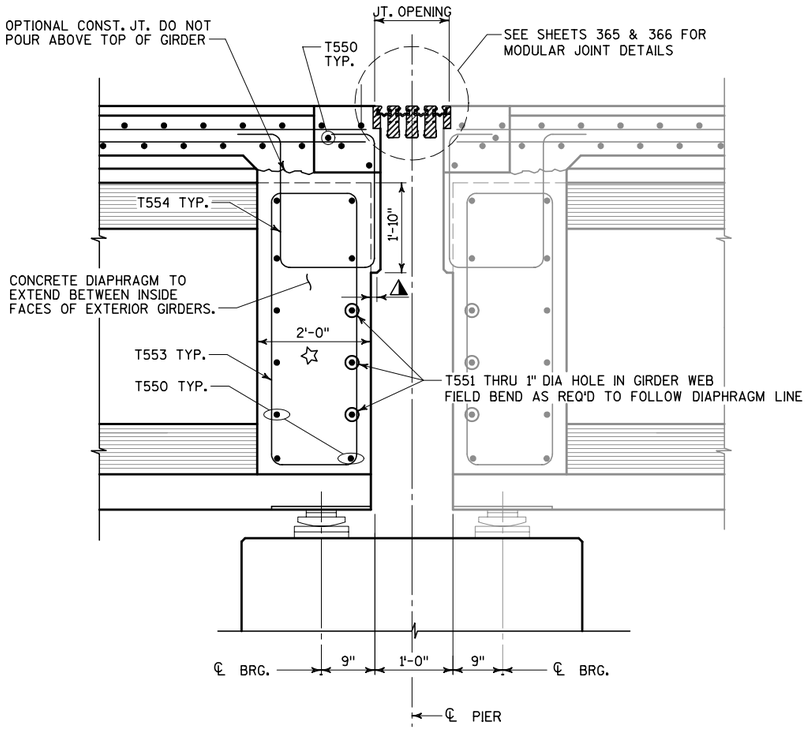
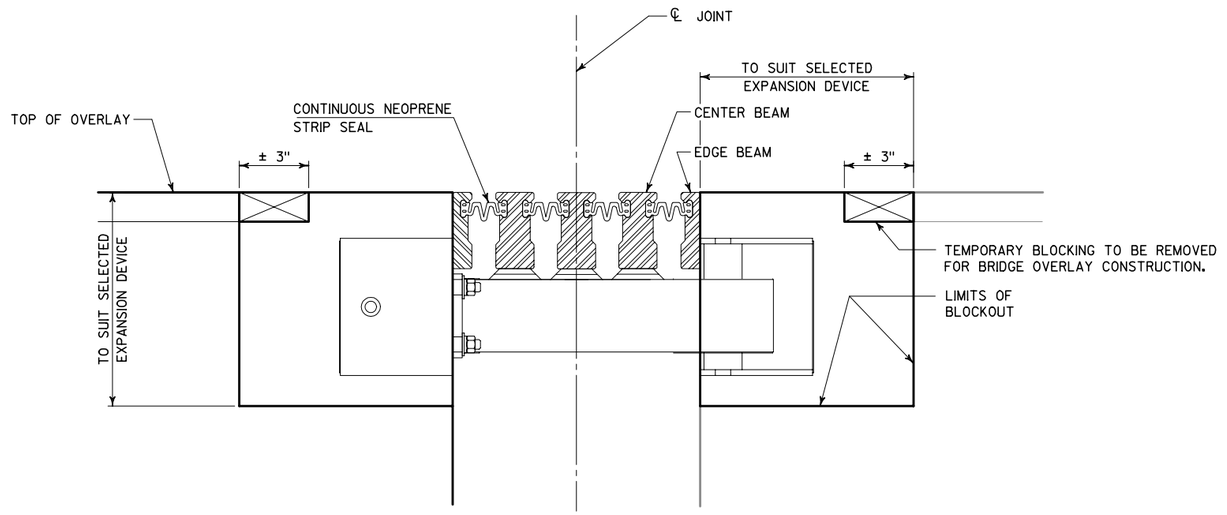
STATE PROJECT NUMBER

1060-05-75

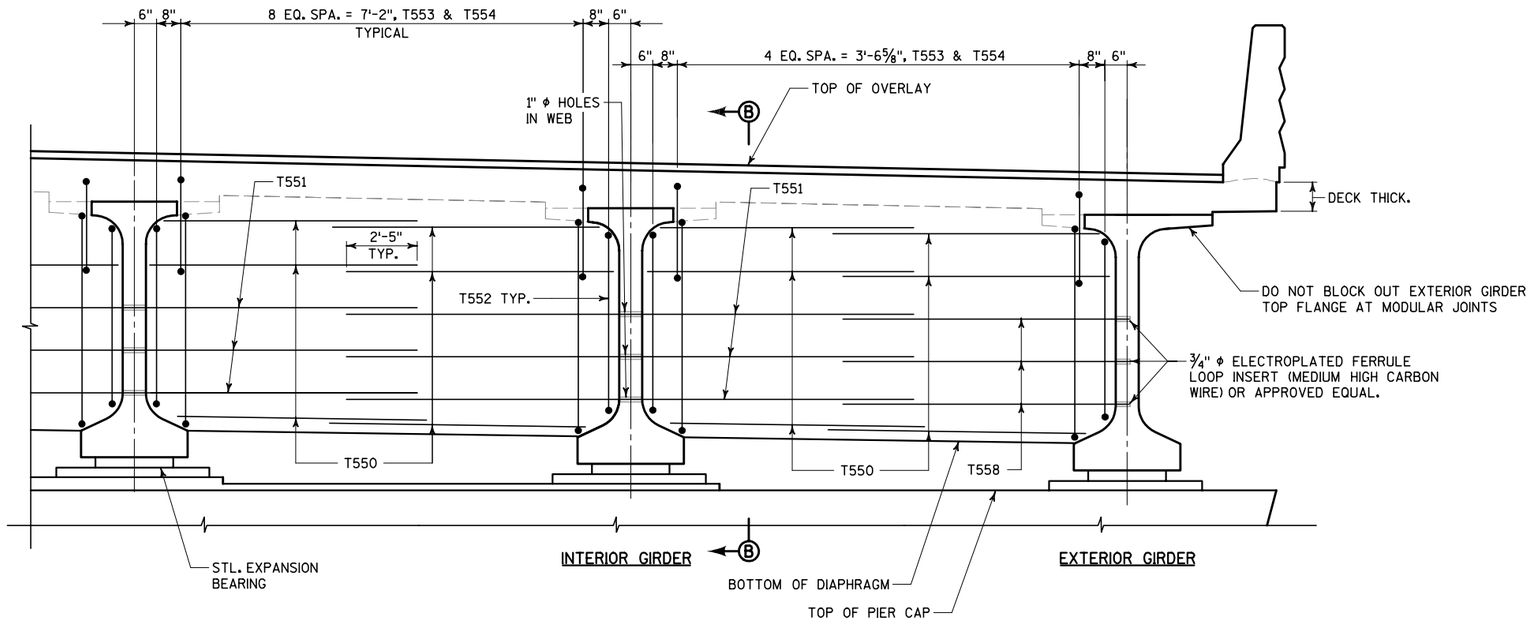


SECTION B-B



TYPICAL SECTION THRU SUPPORT BOX

(NOT TO SCALE)



PART TRANSVERSE SECTION AT MODULAR EXPANSION JT. PIER DIAPHRAGM

BACK FACE REINFORCING SHOWN - SEE SECTION B-B FOR FRONT FACE

SECTION APPLIES AT PIER P10-001

LEGEND

☆ DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS.

⚠ DIMENSION VARIES BASED ON MANUFACTURER'S RECOMMENDED JT. OPENING, MIN. DIMENSION = 0"

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	RWN	PLANS CK'D.	KES

SUPERSTRUCTURE DETAILS 4

SHEET 80 OF 396

2948

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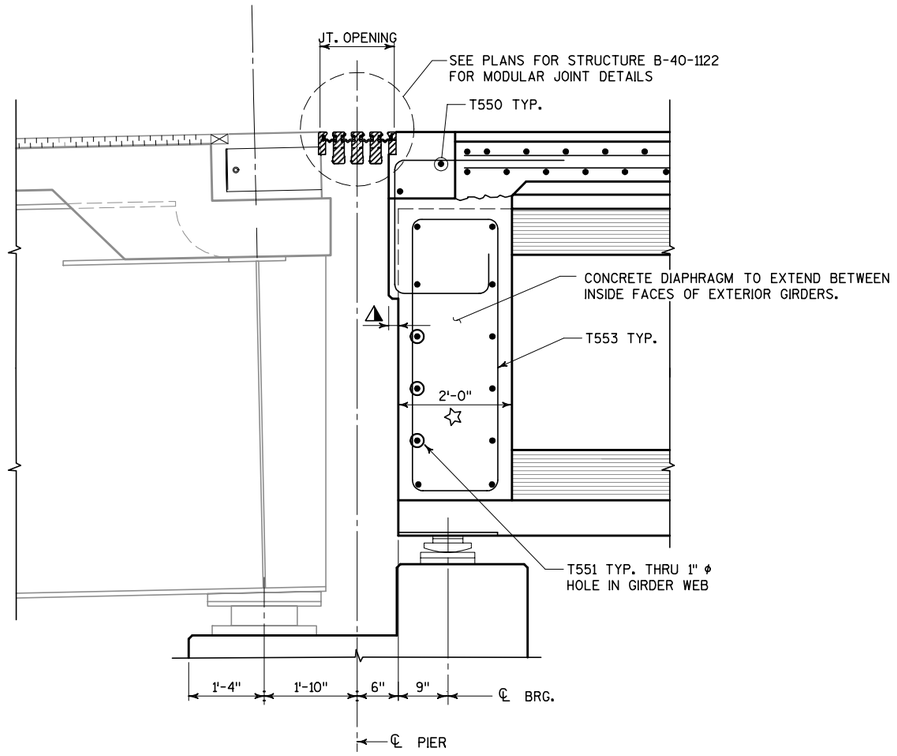
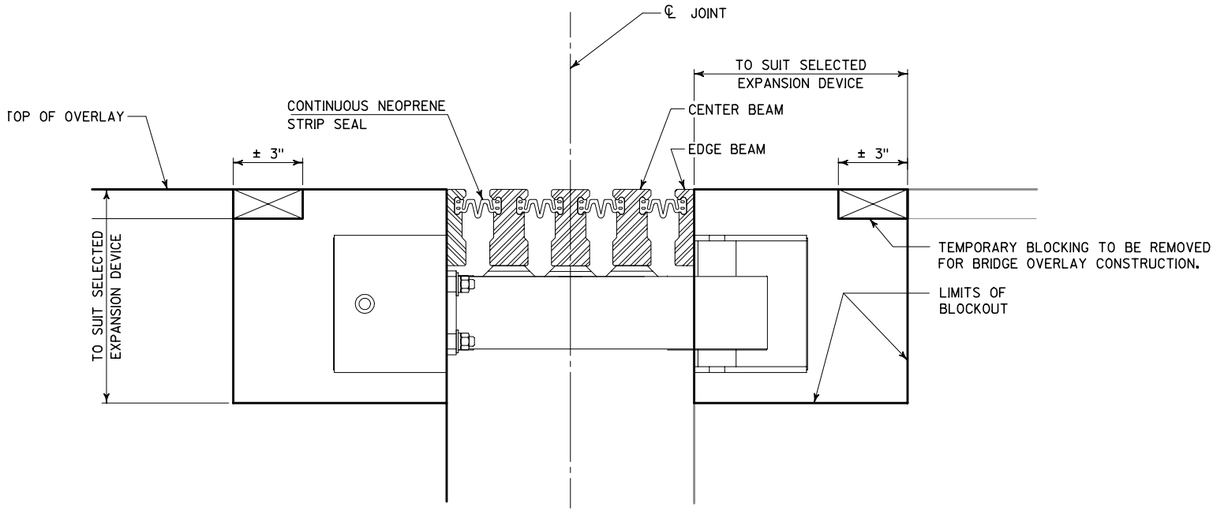
STATE PROJECT NUMBER
1060-05-75

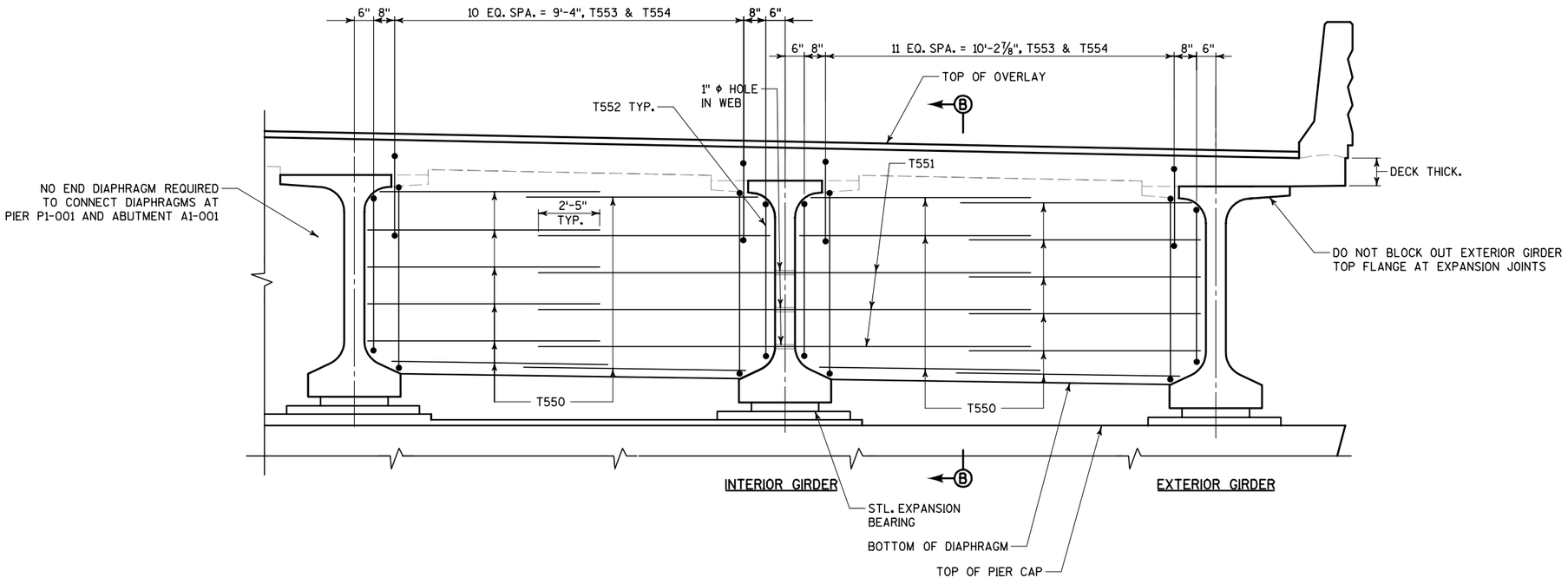


SECTION B-B



TYPICAL SECTION THRU SUPPORT BOX

(NOT TO SCALE)



PART TRANSVERSE SECTION AT MODULAR EXPANSION JT. DIAPHRAGM - PIER P1-001

BACK FACE REINFORCEMENT SHOWN - SEE SECTION B-B FOR FRONT FACE REINFORCEMENT

LEGEND

☆ DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS.

⚠ DIMENSION VARIES BASED ON MANUFACTURER'S RECOMMENDED JT. OPENING, MIN. DIMENSION = 0"

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

SUPERSTRUCTURE DETAILS 5

SHEET 81 OF 396

2949

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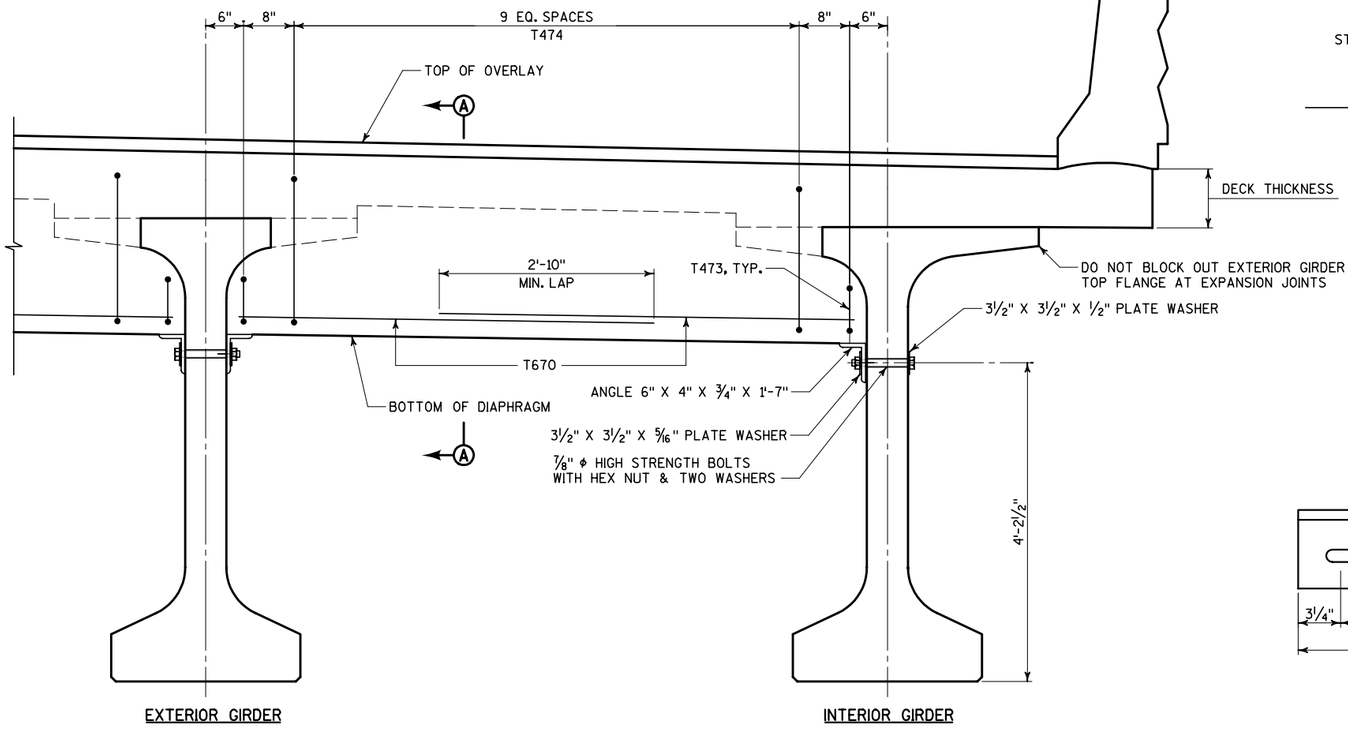
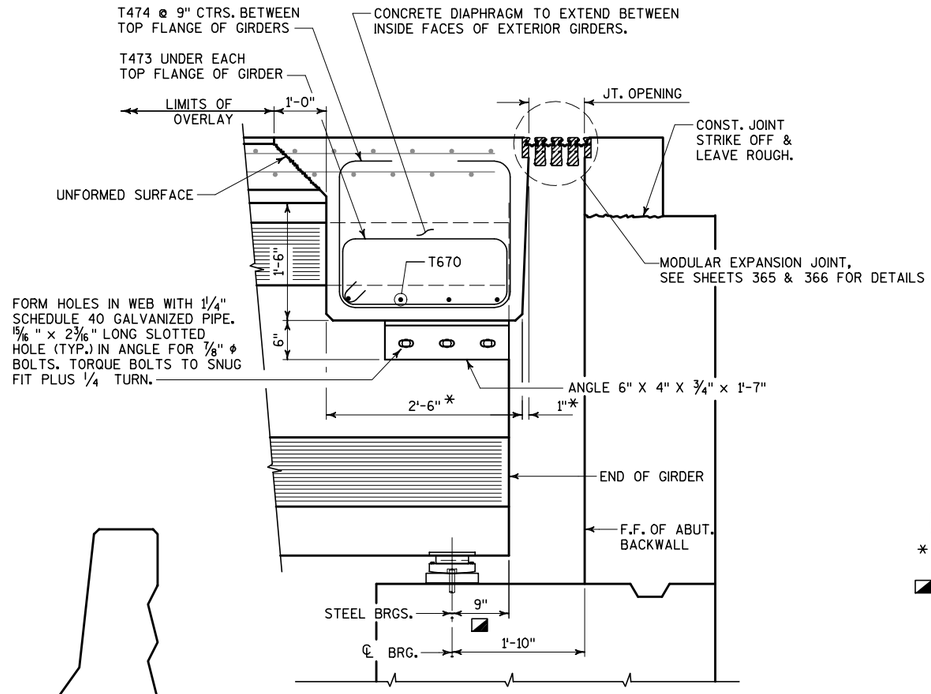
STATE PROJECT NUMBER
1060-05-75



PART TRANSVERSE SECTION AT DIAPHRAGM - ABUTMENT A1-001



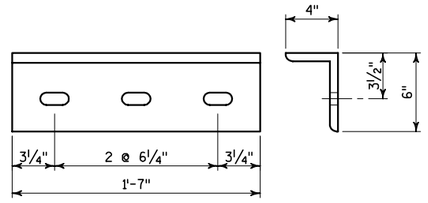
SECTION A-A

(ABUTMENT A1-001)

LEGEND

* DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS.

◪ DIMENSION IS TAKEN PARALLEL TO ℄ GIRDER.



ANGLE

NOTES

DIAPHRAGM SUPPORT ANGLES SHALL BE ASTM A709 GRADE 36. ALL BOLTS, NUTS AND WASHERS SHALL BE ASTM A325 TYPE 1.

ALL SUPPORT ANGLES SHALL BE HOT-DIPPED GALVANIZED. ALL BOLTS, NUTS AND WASHERS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C. GALVANIZED NUTS SHALL BE TAPPED OVERSIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A563 AND SHALL MEET THE REQUIREMENTS OF SUPPLEMENTARY REQUIREMENT S1 OF ASTM A563, LUBRICANT AND TEST FOR COATED NUTS.

ALL DIAPHRAGM SUPPORT HARDWARE SHALL BE INCIDENTAL TO PAY ITEM SPV.0035.2025 "HIGH PERFORMANCE CONCRETE (HPC) MASONRY SUPERSTRUCTURES".

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

SUPERSTRUCTURE DETAILS 6

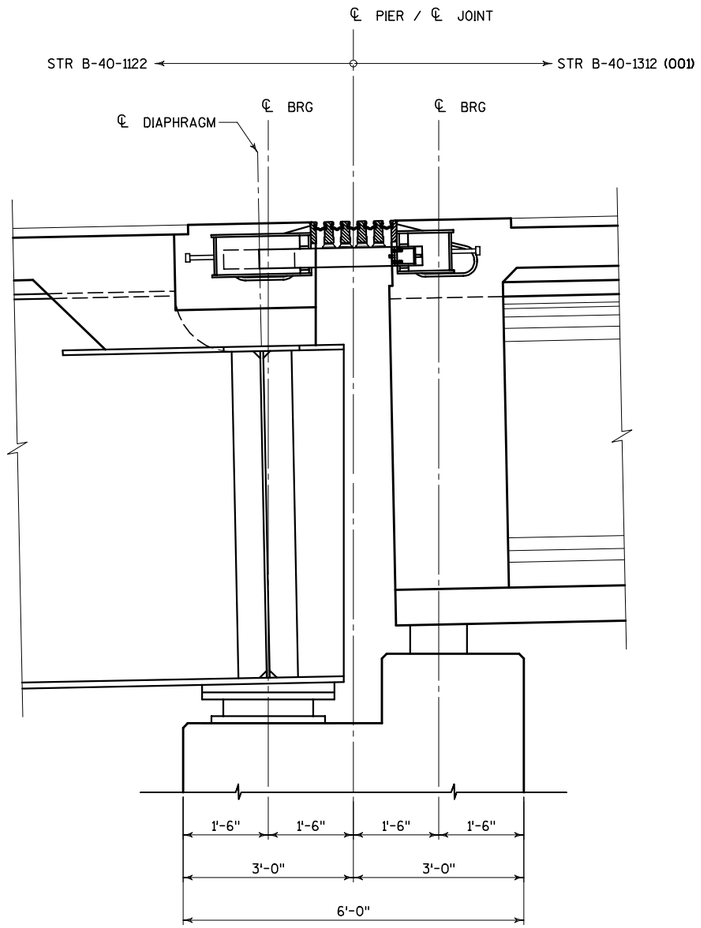
SHEET 82 OF 396

2950

8

STATE PROJECT NUMBER

1060-05-75



SECTION AT PIER P1-001

FOR INFORMATION ONLY

(FOR DETAILS, SEE B-40-1122 PLANS)

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

SUPERSTRUCTURE DETAILS 7

SHEET 83 OF 396

2951

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BAR INFORMATION						BAR DIMENSIONS								
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	LOCATION	REMARKS
S501	E	2918	5'-4"	16232	11	1'-9"	159°	2"	2'-0"	1'-0"	116°		STANDARD PARAPET DOWELS	
S602	E	28	6'-6"	273	9	3'-3"	3'-3"	83°					LIGHT POLE BASE PARAPET DOWELS	
S605	E	48	14'-9"	1063	2	14'-0"							LIGHT POLE BASE EXTRA TRANSVERSE	
S506	E	10	4'-6"	47	9	2'-3"	2'-3"	15°					LIGHT POLE BASE EXTRA DOWELS	
S507	E	10	4'-2"	43	9	1'-11"	2'-3"	15°					LIGHT POLE BASE EXTRA DOWELS	
S550	E	189	26'-2"	5158	1	26'-2"							SLAB TOP - TRANSVERSE - SPAN 9	
S551	E	240	43'-0"	10764	1	43'-0"							SLAB TOP - TRANSVERSE SPANS 1 & 2	
S552	E	23	26'-2"	628	1	26'-2"							SLAB TOP - TRANSVERSE - SPAN 1 SERIES	"A" VARIES FROM 8'-6" TO 43'-10" (1 SET)
S553	E	83	35'-8"	3088	1	35'-8"							SLAB TOP - TRANSVERSE - SPAN 1 SERIES	"A" VARIES FROM 42'-10" TO 28'-6" (1 SET)
S554	E	136	23'-8"	3357	1	23'-8"							SLAB TOP - TRANSVERSE - SPAN 2 SERIES	"A" VARIES FROM 29'-4" TO 18'-0" (1 SET)
S555	E	503	30'-10"	16176	1	30'-10"							SLAB TOP - TRANSVERSE - SPAN 3 & 8	
S556	E	1508	58'-1"	91409	1	58'-1"							SLAB TOP & BOT. - TRANSV. - SPAN 4-8	
S557	E	298	30'-4"	9428	1	30'-4"							SLAB TOP - TRANSVERSE - SPAN 8	
S558	E	737	40'-0"	30748	1	40'-0"							SLAB BOTTOM - TRANS. - SPAN 1, 2, 3, 8 & 9	
S659	E	23	27'-0"	933	1	27'-0"							SLAB BOTTOM - TRANSVERSE - SPAN 1 SERIES	"A" VARIES FROM 9'-4" TO 44'-8" (1 SET)
S660	E	83	35'-7"	4436	1	35'-7"							SLAB BOTTOM - TRANSVERSE - SPAN 1 SERIES	"A" VARIES FROM 42'-9" TO 28'-5" (1 SET)
S561	E	136	23'-7"	3345	1	23'-7"							SLAB BOTTOM - TRANSVERSE - SPAN 2 SERIES	"A" VARIES FROM 29'-3" TO 17'-11" (1 SET)
S562	E	158	22'-0"	3625	1	22'-0"							SLAB BOTTOM - TRANSVERSE - SPAN 3	
S563	E	149	21'-0"	3264	1	21'-0"							SLAB BOTTOM - TRANSVERSE - SPAN 8	
S564	E	188	17'-0"	3333	1	17'-0"							SLAB BOTTOM - TRANSVERSE - SPAN 9	
S565	E	115	26'-8"	3199	1	26'-8"							SLAB TOP - LONGITUDINAL - BEGIN SPAN 1	
S566	E	100	60'-0"	6258	1	60'-0"							SLAB TOP - LONGITUDINAL - MID SPAN 1	
S567	E	105	26'-0"	2847	1	26'-0"							SLAB TOP - LONGITUDINAL - PIER 2	
S568	E	10	14'-11"	155	1	14'-11"							SLAB TOP - LONGITUDINAL - SPAN 1 SERIES BEGIN RAMP	"A" VARIES FROM 26'-7" TO 3'-3" (1 SET)
S569	E	13	37'-11"	514	1	37'-11"							SLAB TOP - LONGITUDINAL - SPAN 1 SERIES MID RAMP	"A" VARIES FROM 15'-11" TO 60'-0" (1 SET)
S570	E	13	25'-8"	348	1	25'-8"							SLAB TOP - LONGITUDINAL - SPAN 1 SERIES END RAMP	"A" VARIES FROM 49'-2" TO 2'-3" (1 SET)
S471	E	338	40'-0"	9031	1	40'-0"							SLAB TOP - LONGITUDINAL - MID SPAN 2 & 8	
S472	E	89	6'-10"	406	1	6'-10"							SLAB TOP - LONGITUDINAL - MID SPAN 2	
S673	E	90	52'-2"	7052	1	52'-2"							SLAB TOP - LONGITUDINAL - PIER 3	
S674	E	90	26'-0"	3515	1	26'-0"							SLAB TOP - LONGITUDINAL - PIER 3	
S475	E	90	35'-1"	2109	1	35'-1"							SLAB TOP - LONGITUDINAL - MID SPAN 3	
S676	E	89	28'-10"	3854	1	28'-10"							SLAB TOP - LONGITUDINAL - MID SPAN 3	
S777	E	89	28'-0"	5094	1	28'-0"							SLAB TOP - LONGITUDINAL - PIER 4	
S778	E	89	57'-0"	10369	1	57'-0"							SLAB TOP - LONGITUDINAL - PIER 4	
S479	E	89	40'-1"	2381	1	40'-1"							SLAB TOP - LONGITUDINAL - MID SPAN 4	
S480	E	89	27'-6"	1635	1	27'-6"							SLAB TOP - LONGITUDINAL - MID SPAN 4	
S781	E	267	60'-0"	32745	1	60'-0"							SLAB TOP - LONGITUDINAL - PIER 5 & PIER 7 & PIER 8	
S782	E	89	34'-0"	6185	1	34'-0"							SLAB TOP - LONGITUDINAL - PIER 5	
S683	E	89	18'-10"	2518	1	18'-10"							SLAB TOP - LONGITUDINAL - MID SPAN 5	
S584	E	89	27'-8"	2564	1	27'-8"							SLAB TOP - LONGITUDINAL - MID SPAN 5 - SERIES	"A" VARIES FROM 17'-0" TO 38'-4" (1 SET)
S685	E	89	21'-10"	2919	1	21'-10"							SLAB TOP - LONGITUDINAL - MID SPAN 5	
S786	E	89	47'-0"	8550	1	47'-0"							SLAB TOP - LONGITUDINAL - PIER 6	
S787	E	89	58'-0"	10551	1	58'-0"							SLAB TOP - LONGITUDINAL - PIER 6	
S588	E	178	40'-0"	7426	1	40'-0"							SLAB TOP - LONGITUDINAL - MID SPAN 6	
S589	E	89	13'-8"	1269	1	13'-8"							SLAB TOP - LONGITUDINAL - MID SPAN 6	
S730	E	89	40'-0"	7277	1	40'-0"							SLAB TOP - LONGITUDINAL - MID SPAN 6	
S731	E	89	18'-6"	3371	1	18'-6"							SLAB TOP - LONGITUDINAL - MID SPAN 7 - SERIES	"A" VARIES FROM 29'-3" TO 7'-11" (1 SET)
S732	E	89	38'-0"	6913	1	38'-0"							SLAB TOP - LONGITUDINAL - PIER 8	
S633	E	83	15'-1"	1880	1	15'-1"							SLAB TOP - LONGITUDINAL - PIER 8	
S734	E	83	59'-0"	10009	1	59'-0"							SLAB TOP - LONGITUDINAL - PIER 9	
S735	E	83	43'-0"	7295	1	43'-0"							SLAB TOP - LONGITUDINAL - PIER 9	
S636	E	80	20'-7"	2473	1	20'-7"							SLAB TOP - LONGITUDINAL - MID SPAN 9	
S437	E	80	24'-1"	1287	1	24'-1"							SLAB TOP - LONGITUDINAL - MID SPAN 9	
S438	E	2209	40'-0"	59024	1	40'-0"							SLAB BOT - LONGITUDINAL - SPANS 1 - 9	
S439	E	77	9'-2"	471	1	9'-2"							SLAB BOT - LONGITUDINAL - SPAN 9	
S440	E	35	40'-0"	935	1	40'-0"							SLAB BOT - LONGITUDINAL - SPAN 1 RAMP	
S441	E	3	17'-8"	35	1	17'-8"							SLAB BOT - LONGITUDINAL - SPAN 1 RAMP SERIES 1	"A" VARIES FROM 27'-5" TO 8'-0" (1 SET)
S442	E	8	21'-8"	116	1	21'-8"							SLAB BOT - LONGITUDINAL - SPAN 1 RAMP SERIES 2	"A" VARIES FROM 39'-2" TO 4'-4" (1 SET)
S443	E	10	20'-5"	137	1	20'-5"							SLAB BOT - LONGITUDINAL - SPAN 1 RAMP SERIES 3	"A" VARIES FROM 36'-5" TO 4'-6" (1 SET)
S444	E	14	22'-2"	208	1	22'-2"							SLAB BOT - LONGITUDINAL - SPAN 1 RAMP SERIES 4	"A" VARIES FROM 39'-11" TO 4'-6" (1 SET)
S590	E	48	20'-0"	1001	1	20'-0"							SLAB - LONGITUDINAL AT DECK DRAINS	
S792	E	24	20'-0"	981	1	20'-0"							SLAB - LONGITUDINAL AT DECK DRAINS	
S893	E	96	20'-0"	5126	1	20'-0"							SLAB - LONGITUDINAL AT DECK DRAINS	
S694	E	56	10'-11"	918	8	5'-6"	5'-6"						SLAB - TRANSVERSE AT DECK DRAINS	
S599	E	2854	6'-0"	17860	2	5'-6"							SLAB - TRANSVERSE AT EDGE OF DECK	

STATE PROJECT NUMBER

1060-05-75

NOTES:

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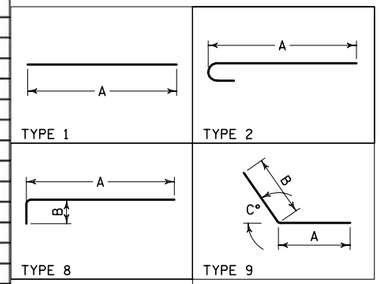
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. SEE THE ACCOMPANYING BAR SERIES TABLE FOR SET COUNT AND BAR LENGTHS.
5. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
6. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.



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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

SUPERSTRUCTURE REINF. SCHEDULE

SHEET 84 OF 396

2952

BAR INFORMATION						BAR DIMENSIONS							
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	LOCATION
T401	E	470	4'-10''	1517	1	4'-10''							DIAPHRAGM - HORIZONTAL
T402	E	64	4'-8''	200	9	4'-1"	7"	65°					DIAPHRAGM - VERTICAL
T303	E	60	5'-9''	130	3	6½"	2'-1"						DIAPHRAGM - HORIZONTAL
T404	E	72	6'-1''	293	8	5'-6"	8"						DIAPHRAGM - VERTICAL
T405	E	48	3'-10''	123	2	3'-4"							DIAPHRAGM - VERTICAL
T506	E	86	12'-9''	1144	3	3'-11"	2'-1"						DIAPHRAGM - VERTICAL
T307	E	20	3'-1''	23	17	6½"	2'-1"	6½"					DIAPHRAGM - HORIZONTAL
T408	E	145	5'-0''	484	1	5'-0"							DIAPHRAGM - HORIZONTAL
T409	E	340	5'-3''	1192	1	5'-3"							DIAPHRAGM - HORIZONTAL
T510	E	211	15'-9''	3466	6	6'-0"	2'-1"	1'-0"					DIAPHRAGM - VERT. - PIERS P2-001, P3-001, P4-001, P8-001
T511	E	112	15'-6''	1811	6	5'-10"	2'-1"	1'-0"					DIAPHRAGM - VERT. - P4-001, P8-001, P9-001
T512	E	60	16'-10''	1053	6	6'-6"	2'-1"	1'-0"					DIAPHRAGM - VERT. - P5-001, P6-001
T413	E	15	3'-6''	35	1	3'-6"							DIAPHRAGM - HORIZONTAL
T314	E	40	4'-9''	71	17	2'-0"	9½"	2'-0"					DIAPHRAGM - HORIZONTAL
T415	E	16	3'-6''	37	2	3'-0"							DIAPHRAGM - VERTICAL - P6-001, P7-001
T516	E	24	13'-1''	328	3	3'-11"	2'-3"						DIAPHRAGM - VERTICAL - P6-001, P7-001
T517	E	42	16'-7''	726	6	6'-4"	2'-3"	1'-0"					DIAPHRAGM - VERTICAL - P6-001, P7-001
T418	E	120	6'-1''	488	17	2'-0"	2'-3"	2'-0"					DIAPHRAGM - HORIZONTAL
T519	E	42	16'-1''	705	6	6'-0"	2'-3"	1'-0"					DIAPHRAGM - VERT. - PIERS P7-001
T550	E	90	5'-9''	540	1	5'-9''							MODULAR EXPANSION JT. DIAPH. - HORIZONTAL
T551	E	15	11'-11''	186	1	11'-11''							MODULAR EXPANSION JT. DIAPH. - HORIZONTAL
T552	E	16	11'-9''	196	3	3'-11"	1'-7'						MODULAR EXPANSION JT. DIAPH. - VERTICAL
T553	E	64	13'-11''	929	3	5'-0"	1'-7'						MODULAR EXPANSION JT. DIAPH. - VERTICAL
T554	E	64	8'-1''	540	27	0'-10"	2'-7"	1'-7"	0'-10"	90^			MODULAR EXPANSION JT. DIAPH. - VERTICAL
T558	E	12	6'-0''	75	1	6'-0"							MODULAR EXPANSION JT. DIAPH. - HORIZONTAL - THREADED
T560	E	36	7'-3''	272	1	6'-0"							DIAPHRAGM - HORIZONTAL - PIER P1-001
T670	E	40	5'-5''	325	1	6'-0"							DIAPHRAGM - HORIZONTAL - ABUTMENT
T473	E	12	6'-1''	49	3	0'-9"	2'-0"						DIAPHRAGM - VERTICAL - ABUTMENT
T474	E	64	6'-5''	274	34	2'-0"	2'-0"						DIAPHRAGM - VERTICAL - ABUTMENT
		TOTAL WEIGHT = 485380 LBS											

STATE PROJECT NUMBER

1060-05-75

NOTES:

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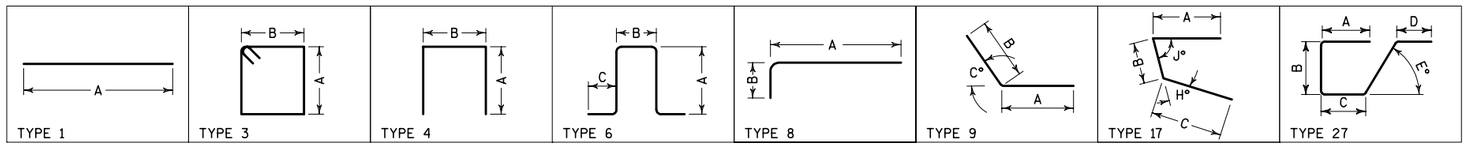
6. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.



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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

SUPERSTRUCTURE REINF. SCHEDULE 2

SHEET 85 OF 396

2953

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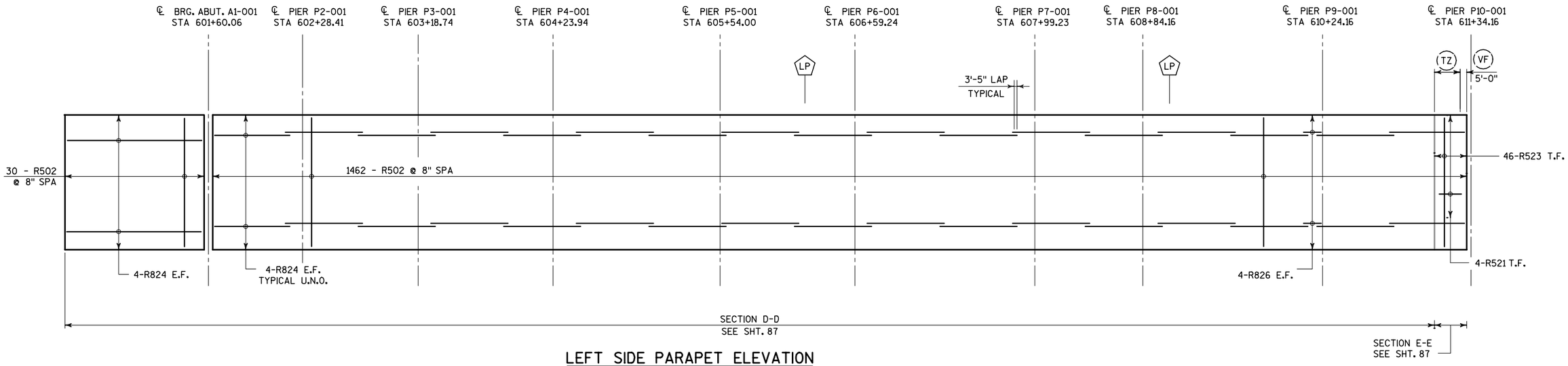
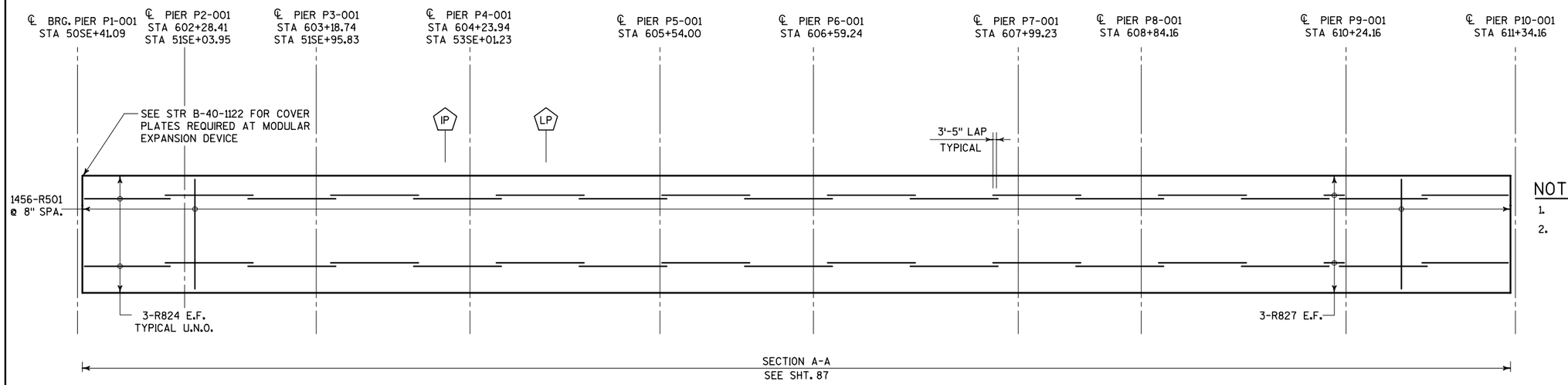


LEFT SIDE PARAPET ELEVATION

LOOKING LEFT AT TRAFFIC FACE
(NOT TO SCALE - SURFACE FEATURES NOT SHOWN)



RIGHT SIDE PARAPET ELEVATION

LOOKING LEFT AT EXTERIOR FACE
(NOT TO SCALE - SURFACE FEATURES NOT SHOWN)

LEGEND

- IP — ITS POLE MOUNTING LOCATION. SEE SHEETS 373 TO 376.
- LP — LIGHT POLE MOUNTING LOCATION. SEE SHEETS 373 TO 376.
- VF — 5'-0" VERTICAL FACE BARRIER SECTION - SEE SECTION E-E ON SHEET 87.
- TZ — 20'-0" TRANSITION ZONE FROM SAFETY SHAPE TO VERTICAL FACE BARRIER - SEE SECTION E-E ON SHEET 87.
- T.F. — DENOTES BARS LOCATED ON 'TRAFFIC FACE' OF PARAPET.
- E.F. — DENOTES BARS LOCATED ON BOTH FACES OF PARAPET ('EACH FACE').

NOTES

1. SEE SHEET 3 & 4 FOR GENERAL NOTES.
2. UNLESS INSTALLATION IS EXPLICITLY COVERED BY A SEPARATE PAY ITEM, INSTALLATION OF ALL EMBEDMENTS IS CONSIDERED INCIDENTAL TO PAY ITEM SPV.0090.2040 - PARAPET BRIDGE FREEWAY STRUCTURES.

   SUPPLY OF EMBEDMENTS IS INCLUDED UNDER OTHER PAY ITEMS - SEE QUANTITIES SHEETS.

   SUPPLY OF EXPANSION FITTINGS FOR CONDUIT IS CONSIDERED INCIDENTAL TO THE PAY ITEM FOR THE CONDUIT BEING CONNECTED.
3. ALL EXPOSED CONDUIT ENDS SHALL BE SUPPLIED WITH TEMPORARY WEATHERPROOF CAPS TO PREVENT INGRESS OF MOISTURE PRIOR TO LIGHT POLE OR SIGN BRIDGE INSTALLATION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

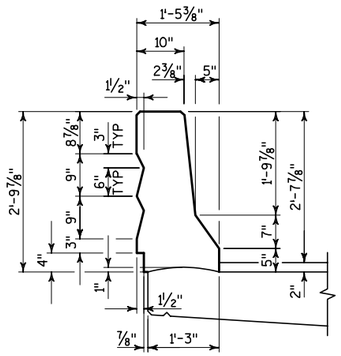
CONST. SPEC. 2004	DRAWN BY DJS	PLANS CK'D. KES

PARAPET ELEVATIONS

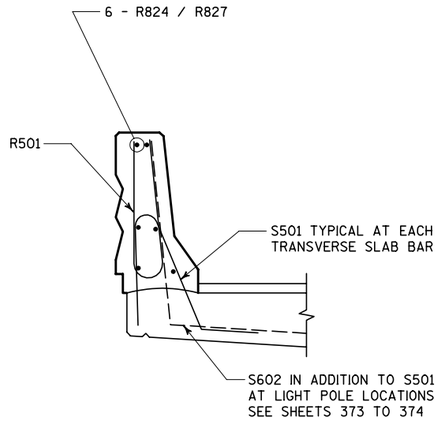
SHEET 86 OF 396
2954

8

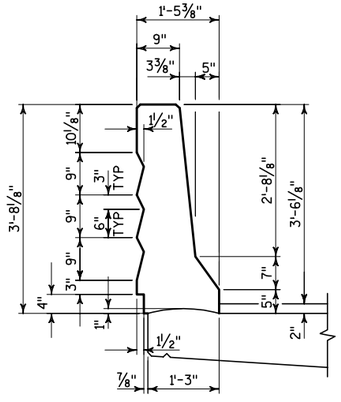
STATE PROJECT NUMBER
1060-05-75



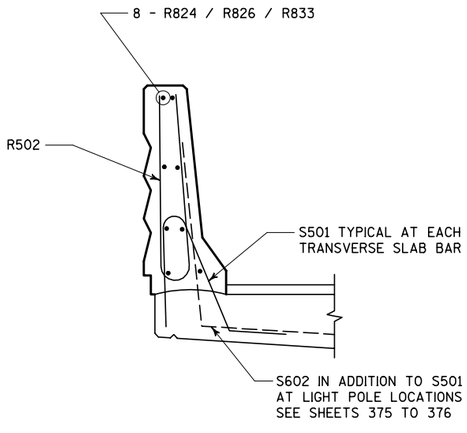
SECTION A-A
(SHOWING DIMENSIONS)



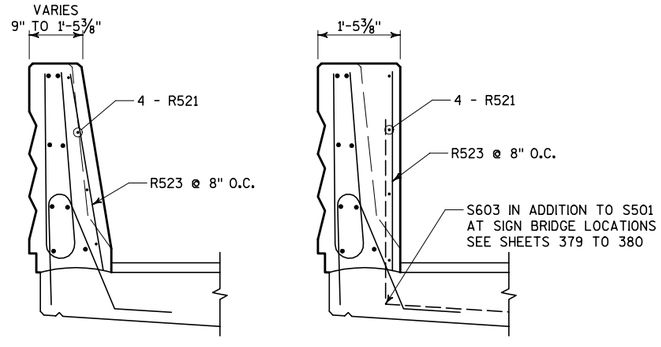
SECTION A-A
(SHOWING REINFORCEMENT)



SECTION D-D
(SHOWING DIMENSIONS)



SECTION D-D
(SHOWING REINFORCEMENT)



TRANSITION ZONE

VERTICAL FACE

SECTION E-E

NOTES

1. SEE SHEET 3 & 4 FOR GENERAL NOTES.
2. UTILITY CONDUITS NOT SHOWN IN SECTIONS. SEE SHEET 88 FOR NUMBER, SIZE AND EXTENT OF CONDUITS REQUIRED.
3. INSTALLATION OF ALL EMBEDDED ITEMS IS CONSIDERED INCIDENTAL TO PAY ITEM SPV.0090.2040 - PARAPET BRIDGE (FREEWAY STRUCTURES).
4. SUPPLY OF EMBEDDED ITEMS IS INCLUDED UNDER OTHER PAY ITEMS - SEE QUANTITIES SHEETS

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

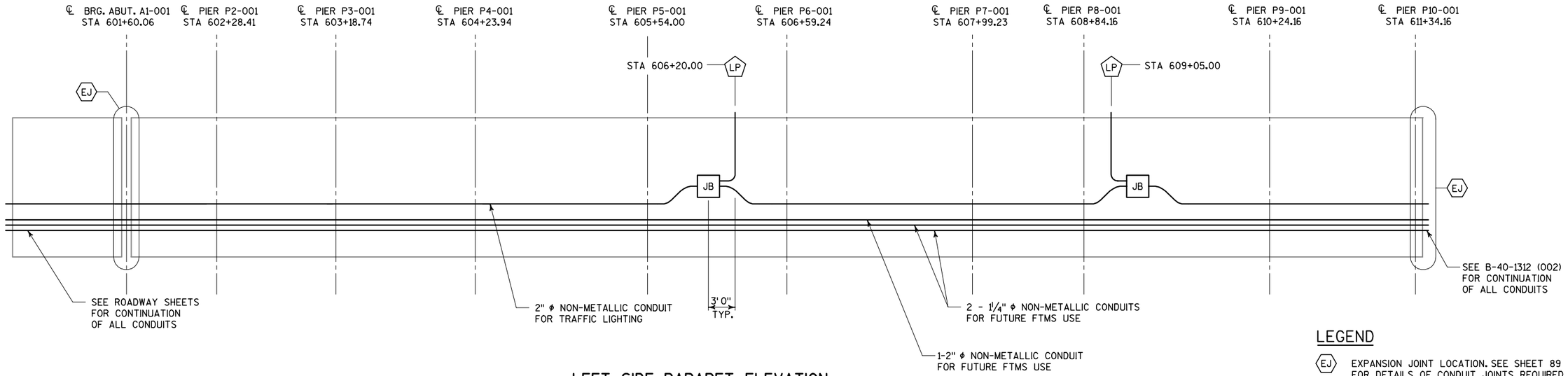
PARAPET SECTIONS

SHEET 87 OF 396

2955

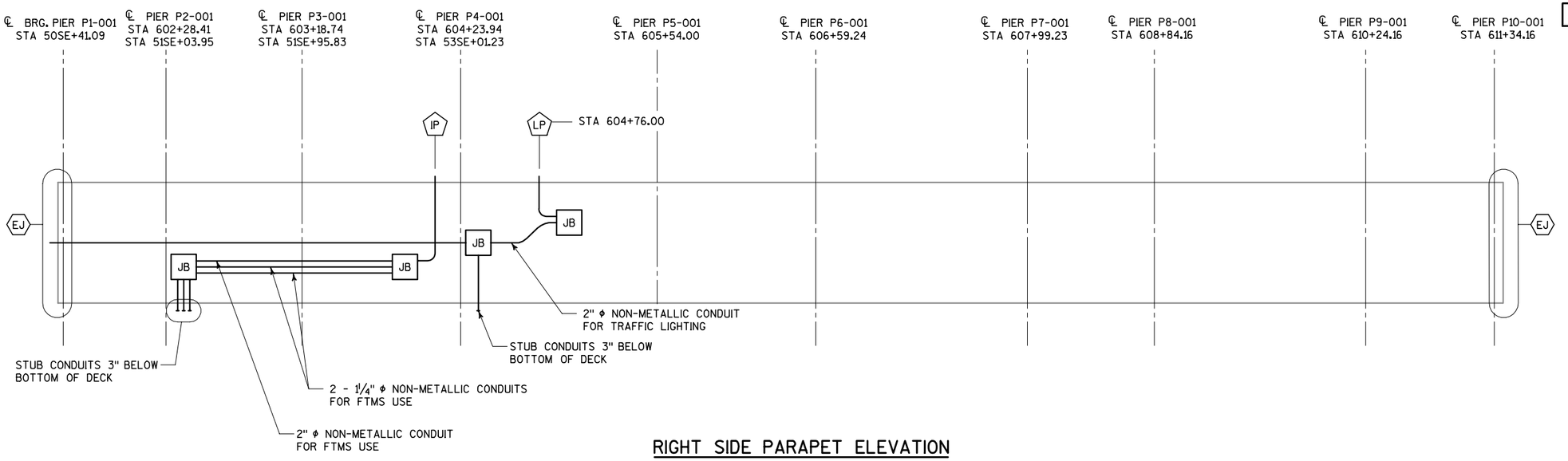
STATE PROJECT NUMBER

1060-05-75



LEFT SIDE PARAPET ELEVATION

LOOKING LEFT AT TRAFFIC FACE
(NOT TO SCALE - SURFACE FEATURES NOT SHOWN)



RIGHT SIDE PARAPET ELEVATION

LOOKING LEFT AT EXTERIOR FACE
(NOT TO SCALE - SURFACE FEATURES NOT SHOWN)

LEGEND

- EJ — EXPANSION JOINT LOCATION. SEE SHEET 89 FOR DETAILS OF CONDUIT JOINTS REQUIRED IN THIS AREA (IF CONDUITS ARE PRESENT).
- IP — ITS POLE MOUNTING LOCATION - INSTALLATION OF ANCHOR ASSEMBLY REQUIRED. SEE SHEETS 373 TO 376.
- LP — LIGHT POLE MOUNTING LOCATION - INSTALLATION OF ANCHOR ASSEMBLY REQUIRED. SEE SHEETS 373 TO 376.
- JB — JUNCTION BOX LOCATION - 14" X 8" X 6" TYPICAL. LOCATE ON TRAFFIC FACE OF BARRIER WITH TOP EDGE OF BOX 8" BELOW TOP OF PARAPET UNLESS OTHERWISE NOTED. RESPACE PARAPET REINFORCEMENT LOCALLY AS REQUIRED TO CLEAR.

NOTES

1. SEE SHEETS 3 & 4 FOR GENERAL NOTES.
2. UNLESS INSTALLATION IS EXPLICITLY COVERED BY A SEPARATE PAY ITEM, INSTALLATION OF ALL EMBEDMENTS IS CONSIDERED INCIDENTAL TO PAY ITEM SPV.0090.2040 - PARAPET BRIDGE FREEWAY STRUCTURES.

   SUPPLY OF EMBEDMENTS IS INCLUDED UNDER OTHER PAY ITEMS - SEE QUANTITIES SHEETS.

   SUPPLY OF EXPANSION FITTINGS FOR CONDUIT IS CONSIDERED INCIDENTAL TO THE PAY ITEM FOR THE CONDUIT BEING CONNECTED.
3. ALL EXPOSED CONDUIT ENDS SHALL BE SUPPLIED WITH TEMPORARY WEATHERPROOF CAPS TO PREVENT INGRESS OF MOISTURE PRIOR TO LIGHT POLE OR SIGN BRIDGE INSTALLATION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PARAPET EMBEDDED WORK

SHEET 88 OF 396

2956

8

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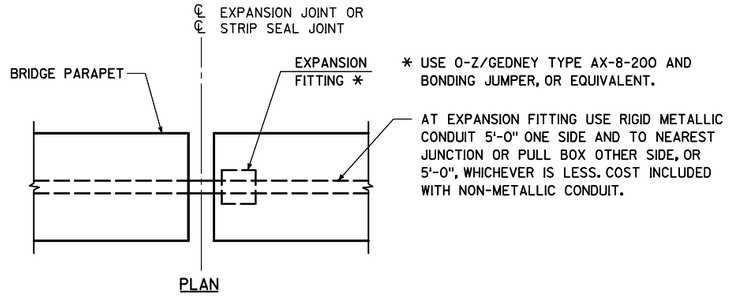
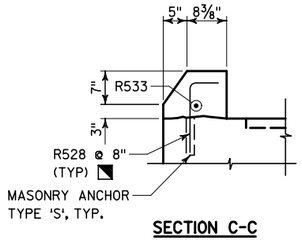
STATE PROJECT NUMBER
1060-05-75

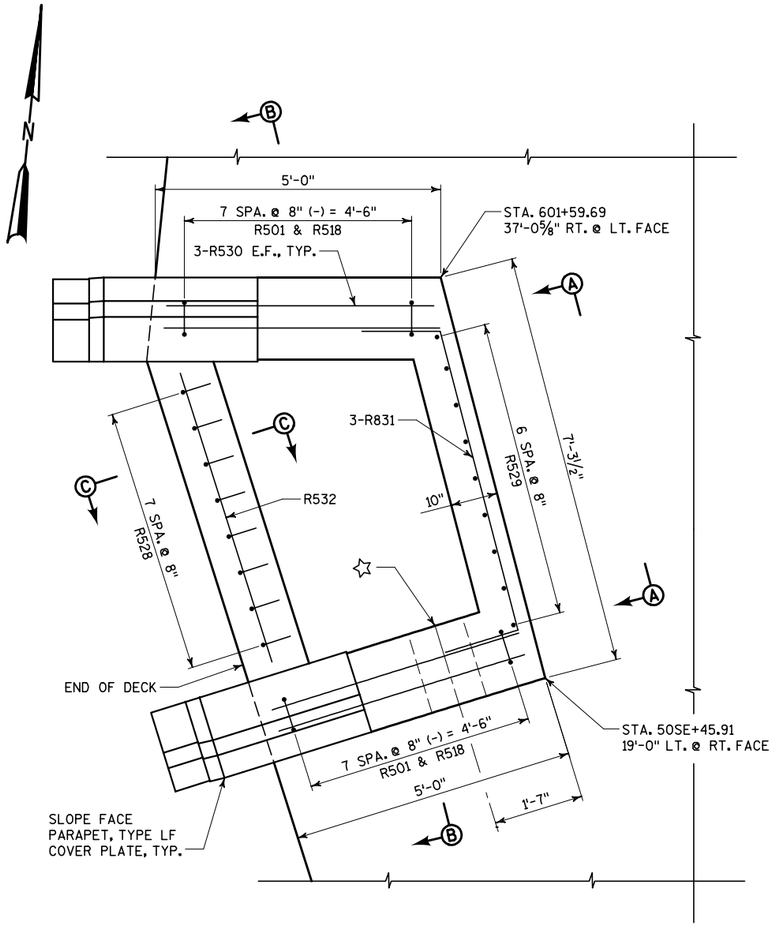


CONDUIT EXPANSION JOINT

FOR USE AT : ABUT A1-001, PIER P1-001 & PIER P10-001

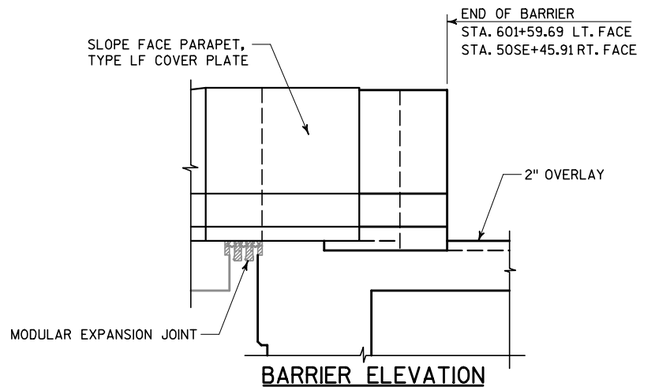


SECTION C-C



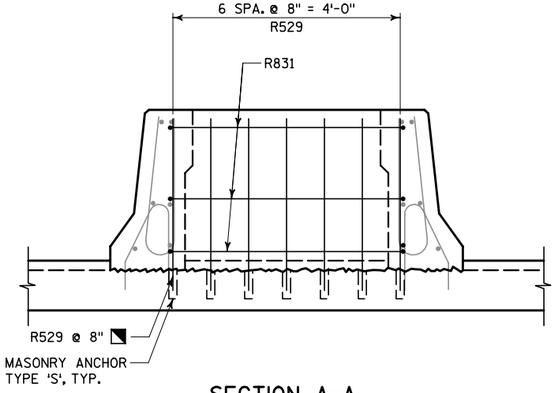
BARRIER PARTIAL PLAN

BARRIER AT PIER P1-001 & ABUT A1-001



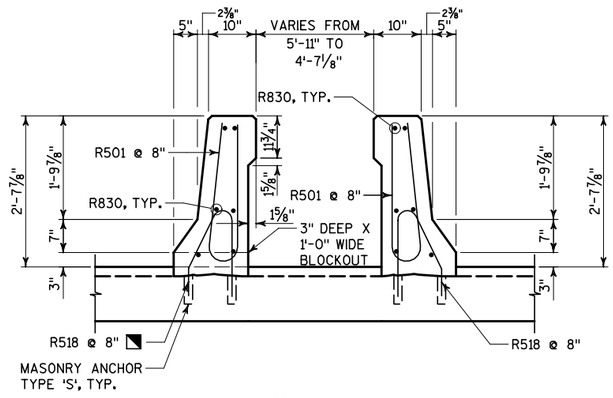
BARRIER ELEVATION

LOOKING NORTH AT RIGHT FACE



SECTION A-A

(REINFORCEMENT SHOWN)



SECTION B-B

BARRIER AT PIER P1A-005 & PIER P1B-005

(DIMENSIONS & REINFORCEMENT SHOWN)

LEGEND

- CONC. MASONRY ANCHOR, TYPE 'S', NO. 5 BAR (5/8")
- 3" DEEP X 1'-0" WIDE BLOCKOUT @ PARAPET BASE. ADJUST REINFORCEMENT TO AVOID BLOCKOUT.

NOTES

1. SEE SHEETS 3 & 4 FOR GENERAL NOTES.
2. UNLESS INSTALLATION IS EXPLICITLY COVERED BY A SEPARATE PAY ITEM, INSTALLATION OF ALL EMBEDMENTS IS CONSIDERED INCIDENTAL TO PAY ITEM SPV.0090.2040 - PARAPET BRIDGE FREEWAY STRUCTURES.
3. SUPPLY OF EMBEDMENTS IS INCLUDED UNDER OTHER PAY ITEMS - SEE QUANTITIES SHEETS.
4. SUPPLY OF EXPANSION FITTINGS FOR CONDUIT IS CONSIDERED INCIDENTAL TO THE PAY ITEM FOR THE CONDUIT BEING CONNECTED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PARAPET DETAILS

SHEET 89 OF 396

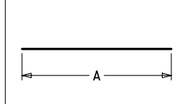
2957

8

STATE PROJECT NUMBER

1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
PARAPET																
R501	E	1472	5'-2"	7932	10	2'-2"	186°	3"							LF PARAPET HAIRPINS	
R502	E	1492	6'-10"	10633	10	3'-0"	184°	3"							HF PARAPET HAIRPINS	
R518	E	16	5'-4"	89	11	1'-9"	159°	2"	2'-0"	1'-0"	200°				PARAPET VERT. - PARTIAL BARRIER	DECK DOWEL
R521	E	4	29'-9"	124	1	29'-9"									PARAPET HORIZ - TRANSITION	
R523	E	46	3'-5"	164	1	3'-5"									PARAPET VERT. - TRANSITION	
R824	E	238	60'-0"	38128	1	60'-0"									PARAPET HORIZONTAL	
R826	E	8	12'-9"	272	1	12'-9"									PARAPET HORIZONTAL	
R827	E	6	9'-10"	158	1	9'-10"									PARAPET HORIZONTAL	
R528	E	8	1'-4"	11	8	0'-11"	5"								PARAPET VERT. - PARTIAL BARRIER	
R829	E	7	2'-10"	53	1	2'-10"									PARAPET VERT. - PARTIAL BARRIER	
R830	E	12	4'-6"	144	1	4'-6"									PARAPET HORIZ. - PARTIAL BARRIER	
R831	E	3	7'-8"	61	4	1'-4"	5'-5"								PARAPET HORIZ. - PARTIAL BARRIER	
R532	E	1	5'-5"	6	1	5'-5"									PARAPET HORIZ. - PARTIAL BARRIER	
R833	E	8	19'-7"	418	1	19'-7"									PARAPET HORIZ. - ABUTMENT	
LF PARAPET LIGHT POLE BASE																
R503	E	20	7'-1"	148	4	2'-6"	2'-3"								LIGHT POLE BASE VERTICAL TIES	
R504	E	12	6'-3"	78	4	2'-2"	2'-1"								LIGHT POLE BASE HORIZONTAL TIES	
R505	E	10	2'-5"	25	9	1'-3"	1'-3"	90°							LIGHT POLE BASE END FACE	
R506	E	12	7'-3"	91	4	2'-8"	2'-1"								LIGHT POLE BASE HORIZONTAL TIES	
HF PARAPET LIGHT POLE BASE																
R504	E	14	6'-3"	91	4	2'-2"	2'-1"								LIGHT POLE BASE HORIZONTAL TIES	
R505	E	10	2'-5"	25	9	1'-3"	1'-3"	90°							LIGHT POLE BASE END FACE	
R506	E	14	7'-3"	106	4	2'-8"	2'-1"								LIGHT POLE BASE HORIZONTAL TIES	
R507	E	20	8'-1"	169	4	3'-0"	2'-3"								LIGHT POLE BASE VERTICAL TIES	
R508	E	2	10'-0"	21	3	2'-3"	2'-3"								LIGHT POLE BASE STIRRUPS	
R409	E	16	3'-7"	38	4	1'-0"	1'-8"								LIGHT POLE BASE SIDE FACE	DIM'N. 'B' VARIES FROM 1'-5" TO 1'-11" IN 3 STEPS OF 2" (2 SETS OF 4 BARS REQ'D)
R510	E	8	2'-9"	23	1	2'-9"									LIGHT POLE BASE SIDE FACE	
		TOTAL WEIGHT =	59010	LBS												



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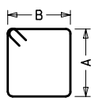

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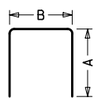

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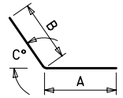

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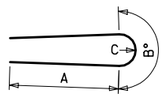

TYPE 10

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEETS 3 & 4 FOR ADDITIONAL INFORMATION

2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.

3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED

4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.

5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.

6. * DENOTES AVERAGE DIMENSIONS FOR BAR SERIES. SEE THE 'REMARKS' COLUMN FOR COMPLETE SERIES INFORMATION.

7. ALL REINFORCEMENT IN THIS TABLE IS INCLUDED UNDER PAY ITEMS SPV.0090.2040 AND SPV.0090.2045 - PARAPET BRIDGE TYPE LF AND HF.

   NO SEPARATE PAYMENT WILL BE MADE - QUANTITIES ARE PROVIDED FOR INFORMATION ONLY.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (001)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PARAPET REINFORCEMENT SCHEDULE

SHEET 90 OF 396

2958

STATE PROJECT NUMBER

1060-05-75

B-40-1412 (005)

B-40-1412 (001)

B-40-1412 (002)

B-40-1312 (001)

B-40-1312 (005)

B-40-1312 (002)

℄ IH 794 WB

℄ IH 794 EB

℄ IH 794 SP

NORMAL TO ℄ IH 794 EB

NORMAL TO ℄ IH 794 SP

711B 712B 713B 714B 715B 716B

611 612 613 614 615 616

STA 611+34.16

STA 612+69.16

STA 613+99.16

STA 615+29.16

90°00'00", TYP.

MODULAR EXP. DEVICE

UNDERGROUND WE ENERGIES ELECTRIC LINES TO BE RELOCATED

POINT OF MIN. VERT. CL.

31A-1

31A-2

16B-1

P1312-03

87°42'34"

88°27'11"

90°00'00"

NAME PLATE LOCATION

111SP 112SP 113SP 114SP 115SP 116SP

STA 112SP+69.16

STA 113SP+99.16

STA 115SP+29.16

14EY 15EY 16EY

℄ EY

℄ SP

END BARRIER STA 614+91.18

PB-29

PB-62

31B-1

℄ PIER P10-001

℄ PIER P9-005

℄ PIER P1-002

℄ PIER P2-002

℄ PIER P3-002

OVERHEAD WE ENERGIES ELECTRIC LINES TO BE RELOCATED

STA. 111SP+34.05

1'-5⅜"

12'-0" VARIES

10'-0"

28'-0"

98'-11"

7'-7½"

1'-5⅜"

10'-0"

70'-0"

90'-10¾"

8'-0"

135'-0" SPAN 1

130'-0" SPAN 2

130'-0" SPAN 3

135'-0" SPAN 4

UNIT 002 LENGTH = 795'-0" ALONG ℄ IH 794 EB

PLAN

(UNIT 002: 6 SPAN 72" PRESTRESSED GIRDER)

NOTES

1. LAYOUT ANGLES SHOWN ARE MEASURED FROM A LINE TANGENT TO ℄ AT ℄ PIER.

LEGEND

EXISTING BORINGS DRILLED BETWEEN 1961 AND 1964.

NEW STRUCTURE BORINGS DRILLED BETWEEN 2002 AND 2003.

670 660 650 640 630 620 610 600 590 580 570 560 550 540 530 520 510

℄ PIER P10-001 & ℄ PIER P9-005

℄ PIER P1-002

℄ PIER P2-002

℄ PIER P3-002

MODULAR EXP. DEVICE

SIGN STRUCTURE S-40-718

SIGN STRUCTURE S-40-536

LIGHT POLE, TYP.

ITS POLE

EXP

FIX

8" DOWNSPOUT

EXISTING GROUND LINE

EL. 586.04

EL. 583.19

EL. 582.01

C.I.P.C. PILES, (TYP.)

MIN. VERT. CL. 30'-11"

℄ 5TH STREET

℄ 4TH STREET

ELEVATION

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

002 GENERAL PLAN AND ELEVATION 1

SHEET 91 OF 396

2959

8

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STATE PROJECT NUMBER

1060-05-75

B-40-1412 (002)

B-40-1412 (003)

B-40-1312 (002)

B-40-1312 (003)

B-40-1312 (006)

N

℄ IH 794 WB

℄ IH 794 EB

PB-30

PB-31

PB-62

31A-2

31C-1

31D-1

715B 716B 717B 718B 719B 720B

615 616 617 618 619 620

15EY 16EY 17EY

115SP 116SP 117SP 118SP 119SP 120SP

STA 615+29.16

STA 616+64.16

STA 617+99.16

STA 619+29.16

POINT OF MIN. VERT. CL.

UNDERGROUND WE ENERGIES ELECTRIC LINE TO BE RELOCATED

90°00'00", (TYP.)

BEGIN BARRIER STA. 615+92.75

℄ EY

℄ SP

TEMPORARY SHORING

MODULAR EXP. DEVICE

10'-0"

70'-0"

8'-0"

1'-5⅜"

90'-10¾"

℄ PIER P3-002

℄ PIER P4-002

PIER P5-002

PIER P6-002

130'-0" SPAN 3

135'-0" SPAN 4

135'-0" SPAN 5

130'-0" SPAN 6

UNIT 002 LENGTH = 795'-0"

PLAN

(UNIT 002: 6 SPAN 72" PRESTRESSED GIRDER)

NOTES

1. LAYOUT ANGLES SHOWN ARE MEASURED FROM A LINE TANGENT TO ℄ AT ℄ PIER.

LEGEND

EXISTING BORINGS DRILLED BETWEEN 1961 AND 1964.

NEW STRUCTURE BORINGS DRILLED BETWEEN 2002 AND 2003.

670 660 650 640 630 620 610 600 590 580 570 560 550 540 630 620 610 600 590

℄ PIER P3-002

℄ PIER P4-002

℄ PIER P5-002

℄ PIER P6-002

ITS POLE

LIGHT POLE, TYP.

SIGN STRUCTURE S-40-537

MODULAR EXP. DEVICE

FIX

EXP

MIN. VERT. CL. 30'-11"

8" DOWNSPOUT

EXISTING GROUND LINE

MIN. VERT. CL. 23'-3"

EL. 582.01

EL. 580.49

EL. 581.58

EL. 582.28

C.I.P.C. PILES (TYP.)

℄ 4TH STREET

℄ 3RD STREET

ELEVATION

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

002 GENERAL PLAN AND ELEVATION 2

SHEET 92 OF 396

2960

8

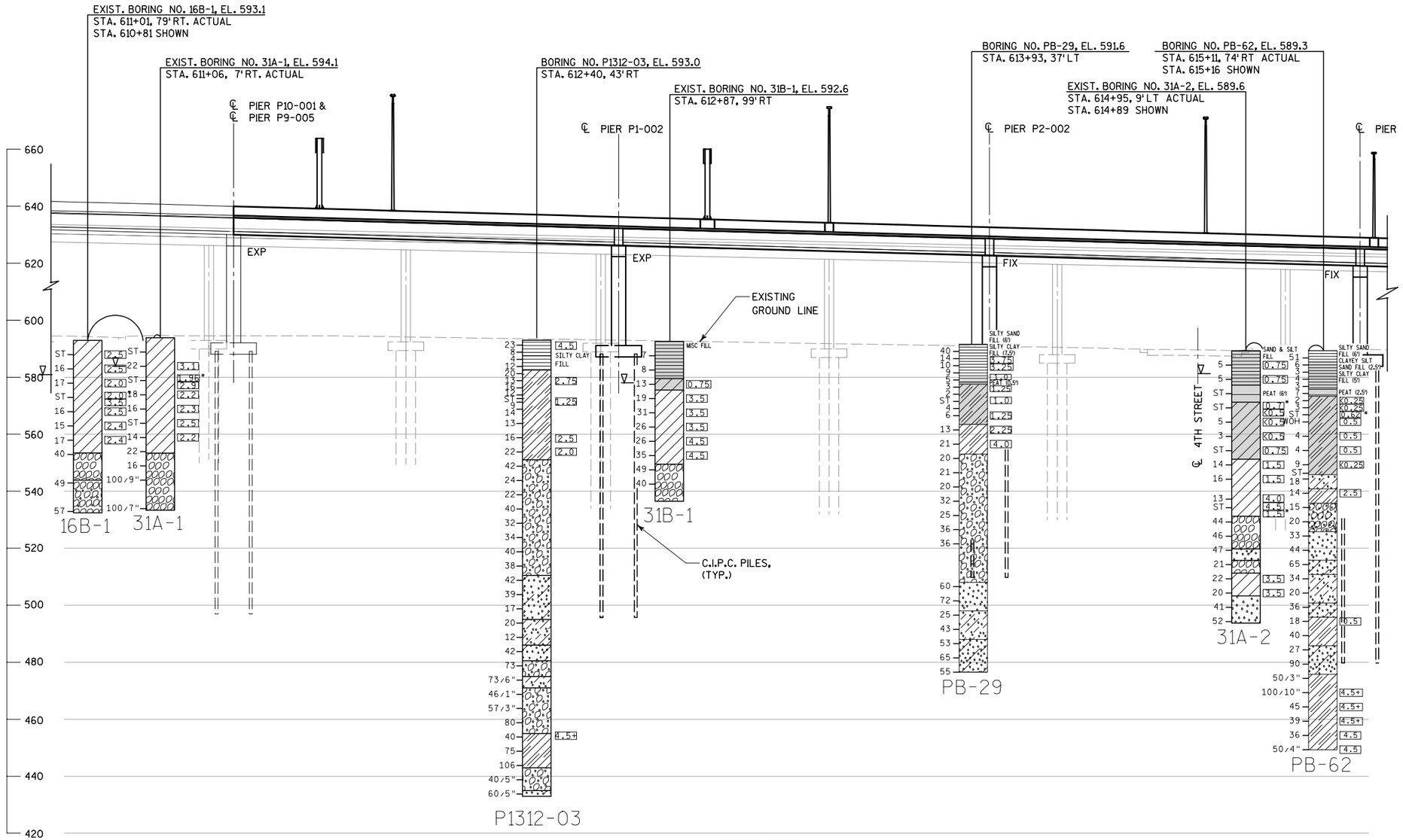
FILE NAME: R:\c&bridges\1312\cds\1312-02C002D.dgn PEN TABLE: \\mtps\FinalDgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:30 Plotted by: emccrigh

LEGEND

* LOCATION OF LABORATORY UNCONFINED COMPRESSIVE STRENGTH TEST.

NOTES

1. SEE "GENERAL PLAN AND ELEVATION" SHEET FOR BOREHOLE LOCATIONS.
2. SUBSURFACE INFORMATION PRESENTED HEREIN IS AN ABBREVIATED VERSION OF THE INFORMATION PRESENTED IN THE GEOTECHNICAL ENGINEERING REPORTS. REVIEW THE APPROPRIATE GEOTECHNICAL ENGINEERING REPORTS AND SOIL BORING LOGS FOR ADDITIONAL SUBSURFACE INFORMATION.
3. WATER LEVELS INDICATED MAY NOT BE REPRESENTATIVE OF STATIC WATER LEVELS.
4. ADDITIONAL SUBSURFACE AND GROUNDWATER INFORMATION IS AVAILABLE FROM DEPARTMENT.



ELEVATION

STATE PROJECT NUMBER

1060-05-75

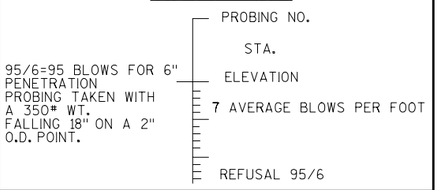
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

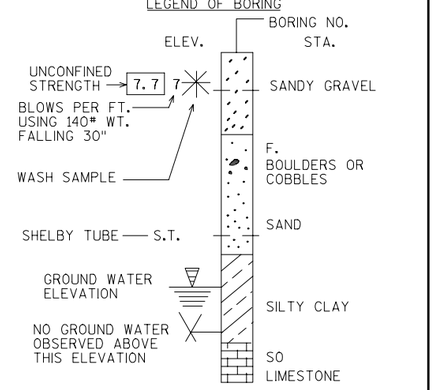
MATERIAL SYMBOLS

TOPSOIL/ FILL, SILT, SANDSTONE, SAND, PEAT, LIMESTONE, GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

SUBSURFACE EXPLORATION UNIT 002

SHEET 93 OF 396

2961

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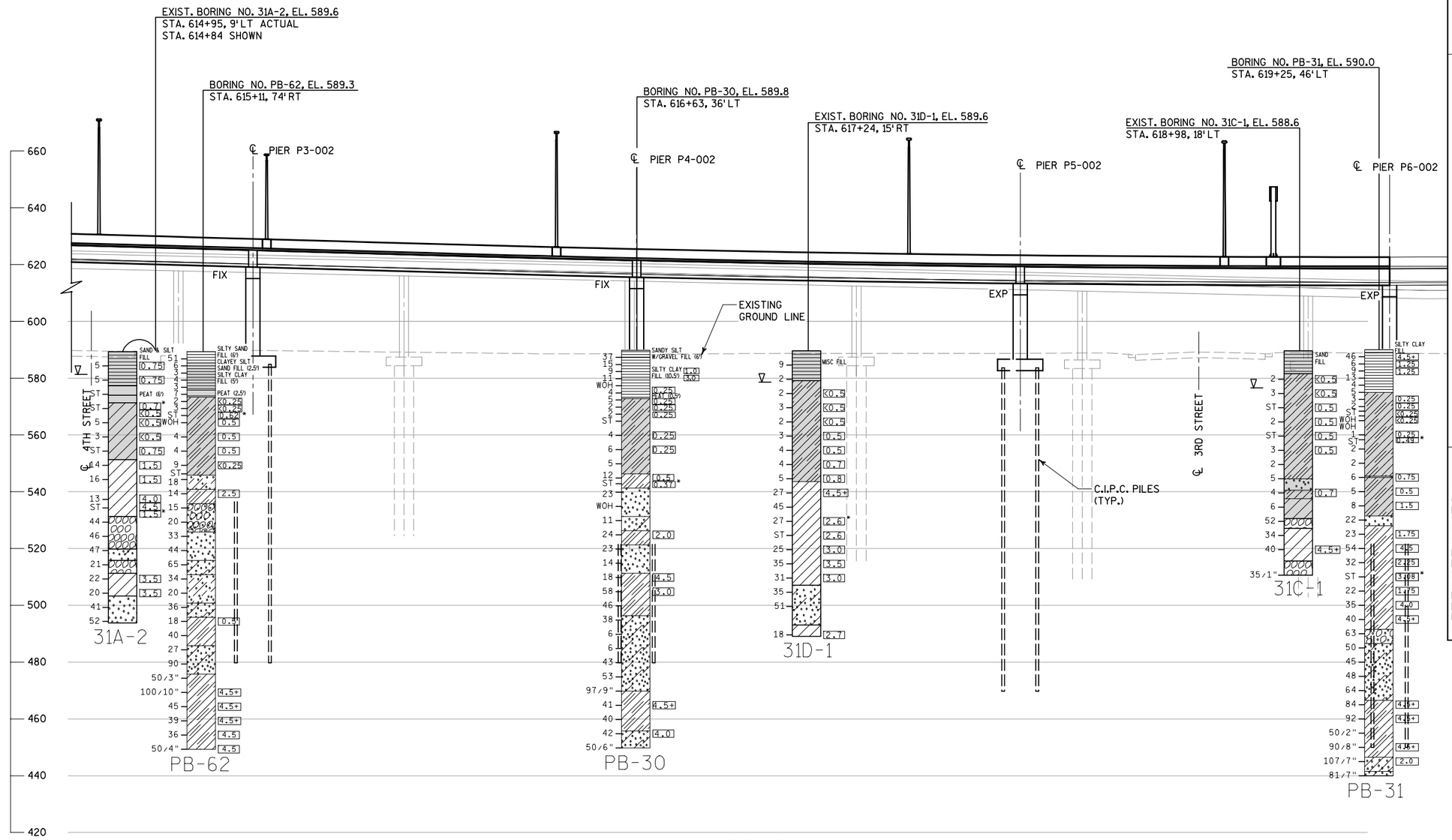
LEGEND

* LOCATION OF LABORATORY UNCONFINED COMPRESSIVE STRENGTH TEST.

NOTES

1. SEE "GENERAL PLAN AND ELEVATION" SHEET FOR BOREHOLE LOCATIONS.
2. SUBSURFACE INFORMATION PRESENTED HEREIN IS AN ABBREVIATED VERSION OF THE INFORMATION PRESENTED IN THE GEOTECHNICAL ENGINEERING REPORTS. REVIEW THE APPROPRIATE GEOTECHNICAL ENGINEERING REPORTS AND SOIL BORING LOGS FOR ADDITIONAL SUBSURFACE INFORMATION.
3. WATER LEVELS INDICATED MAY NOT BE REPRESENTATIVE OF STATIC WATER LEVELS.
4. ADDITIONAL SUBSURFACE AND GROUNDWATER INFORMATION IS AVAILABLE FROM DEPARTMENT.



ELEVATION

STATE PROJECT NUMBER

1060-05-75

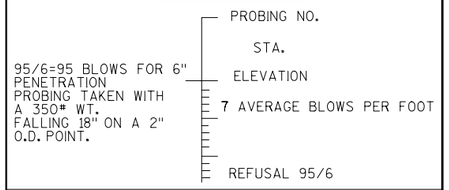
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

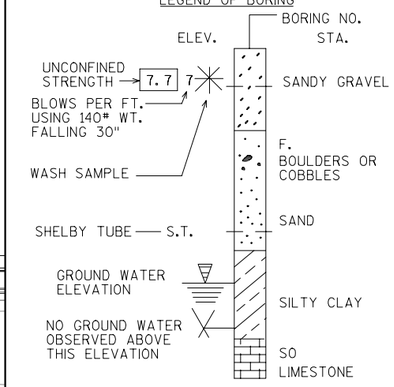
MATERIAL SYMBOLS

TOPSOIL/ FILL, SILT, SANDSTONE, SAND, PEAT, LIMESTONE, GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

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8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

SUBSURFACE EXPLORATION UNIT 002

SHEET 94 OF 396

2962

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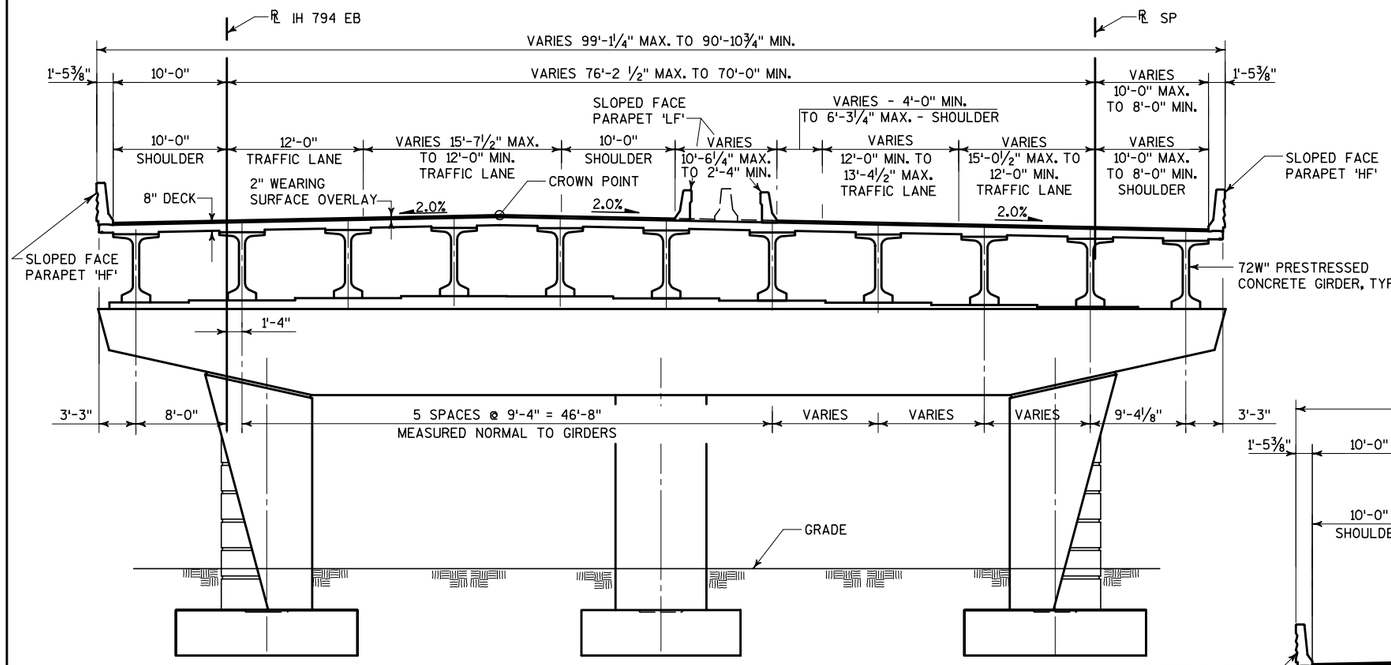
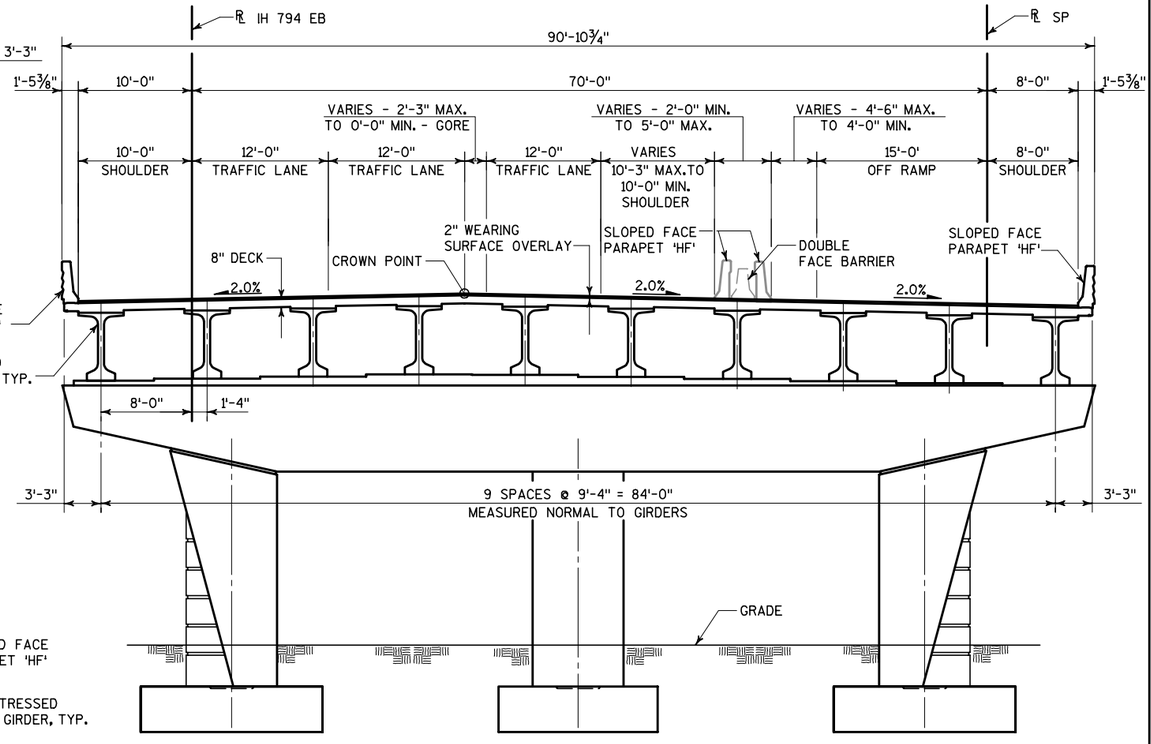
STATE PROJECT NUMBER

1060-05-75



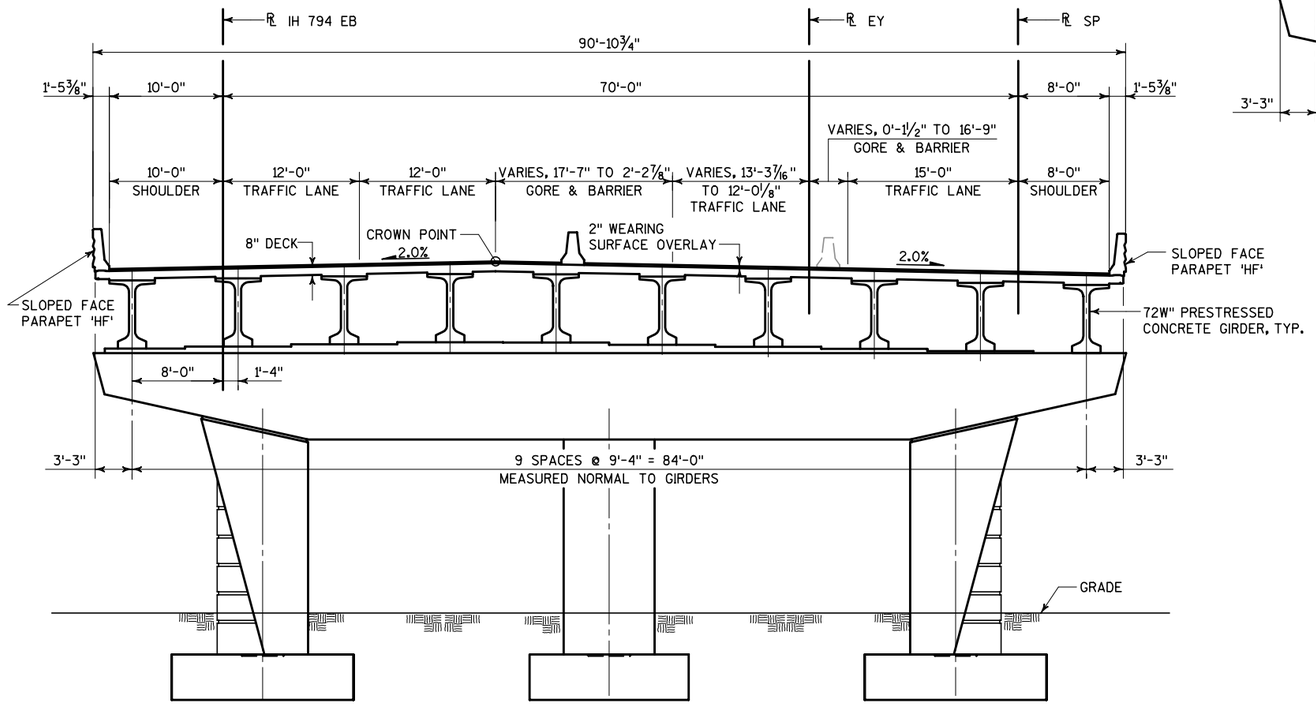
TYPICAL SECTION IN SPAN

(SPAN 1 & SPAN 2)



TYPICAL SECTION IN SPAN

(SPAN 5 & SPAN 6)



TYPICAL SECTION IN SPAN

LOOKING EAST, TYP.
(SPAN 3 & SPAN 4)

NOTES

1. DIMENSIONS ARE MEASURED ALONG A LINE RADIAL TO THE ℄ UNLESS OTHERWISE NOTED.
2. FOR UTILITY INFORMATION, REFER TO DECK CROSS SECTIONS CONTAINED LATER IN THIS SET.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

TYPICAL SECTION

SHEET 95 OF 396

2963

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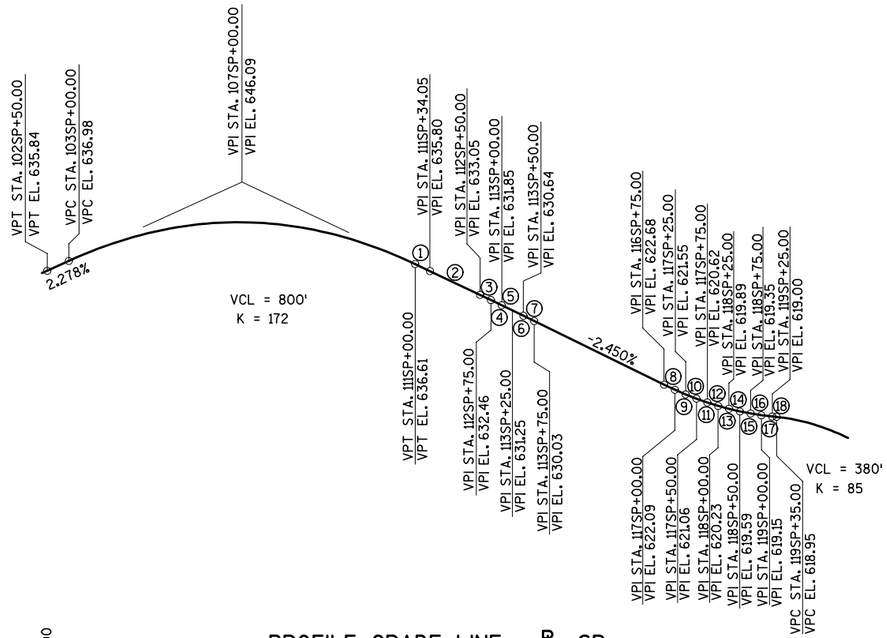
STATE PROJECT NUMBER
1060-05-75

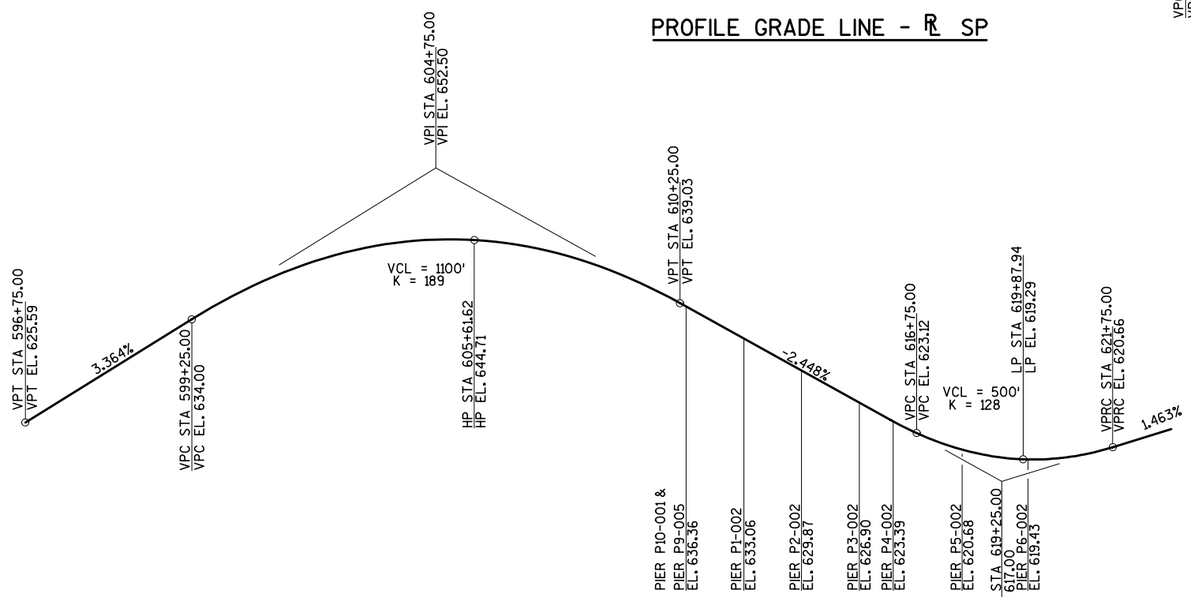
SEGMENT	GRADE
1.	-2.372%
2.	-2.372%
3.	-2.360%
4.	-2.440%
5.	-2.400%
6.	-2.440%
7.	-2.440%
8.	-2.360%
9.	-2.160%
10.	-1.960%
11.	-1.760%
12.	-1.560%
13.	-1.360%
14.	-1.200%
15.	-0.960%
16.	-0.800%
17.	-0.600%
18.	-0.500%



PROFILE GRADE LINE - ℄ SP

SUBSTRUCTURE DATA

UNIT	STATION	SKEW
P10-001 & P9-005	STA 611+34.16	0° 0' 0"
P1-002	STA 612+69.16	0° 0' 0"
P2-002	STA 613+99.16	0° 0' 0"
P3-002	STA 615+29.16	0° 0' 0"
P4-002	STA 616+64.16	0° 0' 0"
P5-002	STA 617+99.16	0° 0' 0"
P6-002	STA 619+29.16	0° 0' 0"



PROFILE GRADE LINE - ℄ IH 794 EB

HORIZONTAL CURVE DATA

℄ SP

PT = STA. 106SP+66.06
PC = STA 112SP+31.92
L = 565.86

PI = STA 112SP+89.19
Δ = 2°17'26"
D = 2°00'00"
T = 57.27
L = 114.52
R = 2864.79
E = 0.57
PC = STA 112SP+31.92
PT = STA 113SP+46.45

PT = STA 113+46.45
PC = STA 120+09.02
L = 662.57

℄ IH 794 EB

PT = STA. 606+02.85
PC = STA 629+06.46
L = 2303.61

NOTE

FOR SUPERELEVATION, SEE TYPICAL SECTIONS AND/OR DECK CROSS SECTIONS.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

ALIGNMENT

SHEET 96 OF 396

2964

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STATE PROJECT NUMBER

1060-05-75

℄ PIER CAP

EL. 625.04 | EL. 625.50* | EL. 625.68* | EL. 625.87* | EL. 626.06* | EL. 626.03* | EL. 625.84* | EL. 625.66* | EL. 625.49* | EL. 625.36* | EL. 625.23* | EL. 625.04*

OPTIONAL CONST. JT. IF USED, ADD (P01)

1½" × 3½" RUSTICATION

℄ COLUMN 1 | ℄ COLUMN 2 | ℄ COLUMN 3

(P08)

1'-4¾" | 11¼" TYP. | 4'-0" | 4'-0" | 11'-0" TYP. | 9'-6"

39'-0" | 30'-6" | 3'-6" | 4'-10" | 2'-9" | 7 SPA. @ 2'-6" = 17'-6" | 3'-2¼" | 5'-0" | 7'-6" | 26'-6"

5'-0" | 3'-0" | 6" TYP.

(P04)

FINISHED GRADE

EL. 586.04

(P01) (P02)

63'-7⅛"

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 215 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 85'.

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 383.

(P06) 1½" THICK MASONRY PLATE, SEE "PRESTRESSED GIRDER BEARINGS" SHEET FOR DETAILS.

(P08) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 2" X 12" X 6'-6"

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

☆ DIMENSIONS ARE GIVEN TO THE ℄ OF ANCHOR BOLTS.

BEARING ANGLE

	LOCATION	ANGLE
◥	GIRDER 1	90°0'0.0"
	GIRDER 2	90°0'0.0"
	GIRDER 3	90°0'0.0"
	GIRDER 4	90°0'0.0"
	GIRDER 5	90°0'0.0"
	GIRDER 6	90°0'0.0"
	GIRDER 7	90°0'0.0"
	GIRDER 8	90°0'0.0"
	GIRDER 9	90°0'0.0"
	GIRDER 10	91°14'43.3"
	GIRDER 11	91°14'43.3"
◐	GIRDER 1	90°0'0.0"
	GIRDER 2	90°0'0.0"
	GIRDER 3	90°0'0.0"
	GIRDER 4	90°0'0.0"
	GIRDER 5	90°0'0.0"
	GIRDER 6	90°0'0.0"
	GIRDER 7	90°0'0.0"
	GIRDER 8	90°0'0.0"
	GIRDER 9	88°48'6.5"
	GIRDER 10	87°36'45.0"
	GIRDER 11	87°36'45.0"

1½" × 3½" RUSTICATION

(P01) (P02)

12'-0"

END ELEVATION

ELEVATION

(LOOKING EAST-SHOWING DIMENSIONS)

N

3'-6" | 6 SPA. @ 9'-4" = 56'-0" | 3 SPA. @ 7'-1" = 21'-3" | 9'-4⅛" | 3'-6" | GIRDER SPACING ALONG PIER ℄

8'-0" | 1'-4" | STA. 612+69.16 | 90° | ℄ PIER

4-1½"ϕ BOLT, TYP. PER DOUBLE GIRDER SEAT

2-1½"ϕ BOLT, TYP. PER SINGLE GIRDER SEAT

(P08) | (P06) | 1'-6¼"☆ | 3'-0½"☆ | 11½"☆ | 10"

2'-0" | 2'-0" | 10"

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪

1'-6¼"☆ | 3'-0½" | 11½" TYP. | 1'-11" TYP.

℄ BRG.

2'-0" | 2'-0" TYP. | 4'-0" LEVEL

℄ IH 794 EB | ℄ COLUMN 1 | ℄ COLUMN 2 | ℄ COLUMN 3

GIRDER SPACING ALONG PIER ℄ | 9'-4" | 2 SPA. @ 5'-11½" = 11'-11" | 9'-4⅛" | 3'-6"

3'-6" | 31'-9⅜" | 31'-9⅜" | COLUMN SPACING

11'-6" | 82'-1⅛"

93'-7⅛"

PLAN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P1-002

SHEET 97 OF 396

2965

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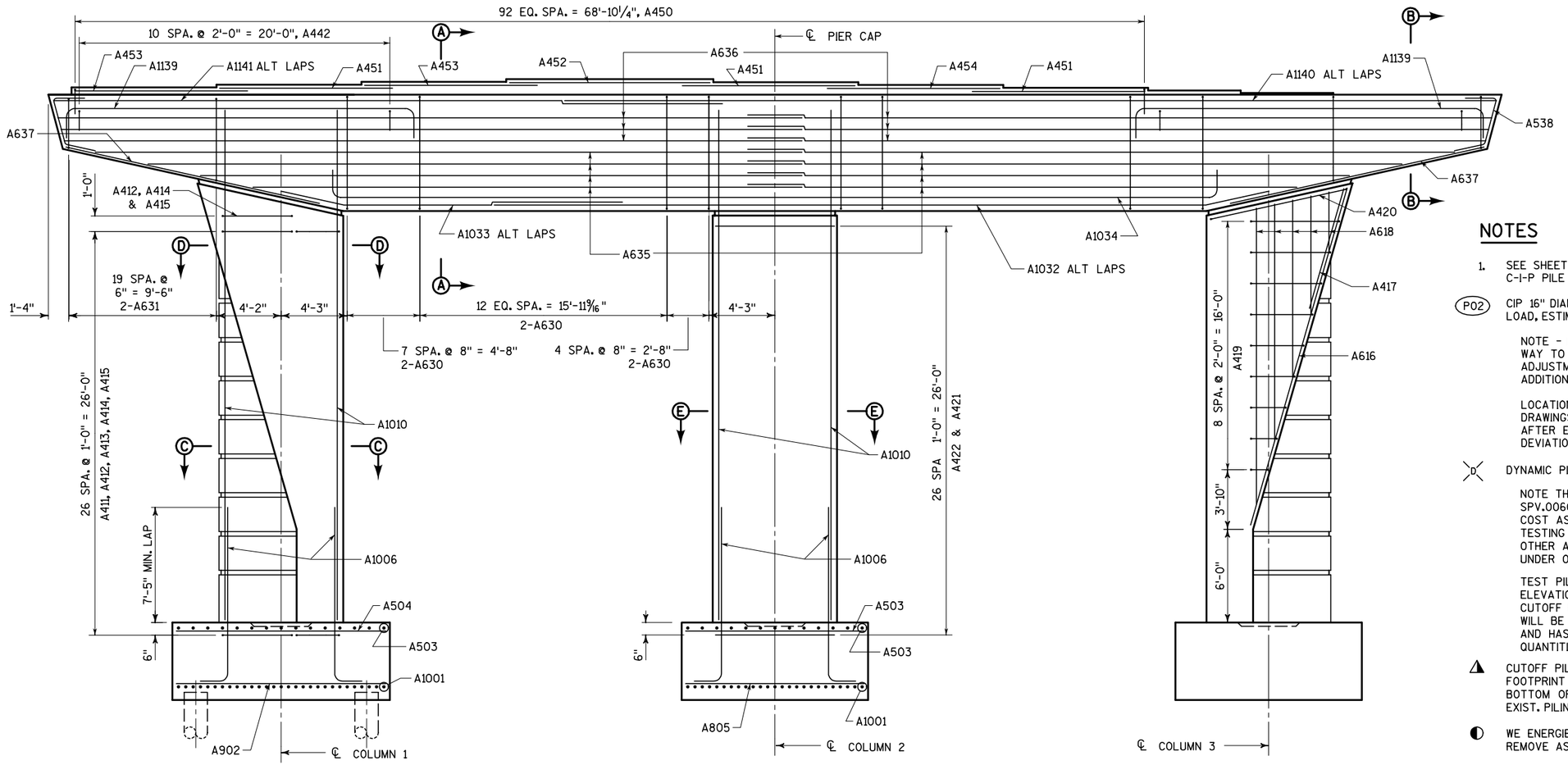
FILE NAME: R:\cbridges\1312\cds\1312-02C007D.dgn PEN TABLE: \\mtp\FinalDgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:30 Plotted by: emccrigh

STATE PROJECT NUMBER

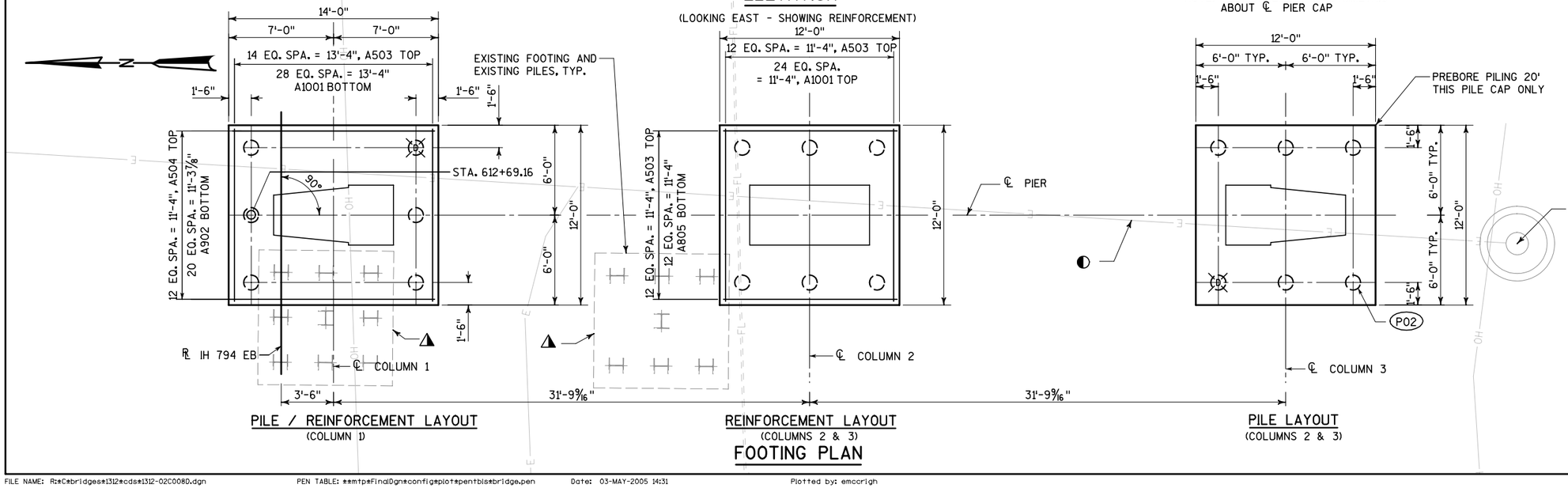
1060-05-75



ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)

NOTE: REINFORCEMENT IS SYMMETRIC ABOUT ℄ PIER CAP



PILE / REINFORCEMENT LAYOUT
(COLUMN 1)

REINFORCEMENT LAYOUT
(COLUMNS 2 & 3)

FOOTING PLAN

PILE LAYOUT
(COLUMNS 2 & 3)

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 215 TONS ALLOWABLE LOAD. ESTIMATED LENGTH = 85'.

NOTE - PROPOSED PILES MAY BE ADJUSTED UP TO 6" EACH WAY TO AVOID CONFLICTS WITH EXISTING PILES. IF GREATER ADJUSTMENT IS REQUIRED, CONTACT THE ENGINEER FOR ADDITIONAL INSTRUCTIONS BEFORE PROCEEDING.

LOCATION OF EXISTING PILES IS SHOWN BASED ON AS-BUILT DRAWINGS ONLY. FIELD VERIFY PILE LOCATIONS IMMEDIATELY AFTER EXPOSURE AND NOTIFY THE ENGINEER OF ANY DEVIATIONS NOTED.

DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

◭ CUTOFF PILING IN EXIST. FOOTING THAT IS IN THE FOOTPRINT OF THE PROPOSED FOOTING 2'-0" BELOW BOTTOM OF PROPOSED FOOTING. DO NOT INCORPORATE EXIST. PILING INTO PROPOSED FOOTING.

◐ WE ENERGIES ELECTRICAL LINE ABANDONED IN PLACE, REMOVE AS NECESSARY FOR FOOTING CONSTRUCTION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P1-002
REINF. LAYOUT

SHEET 98 OF 396

2966

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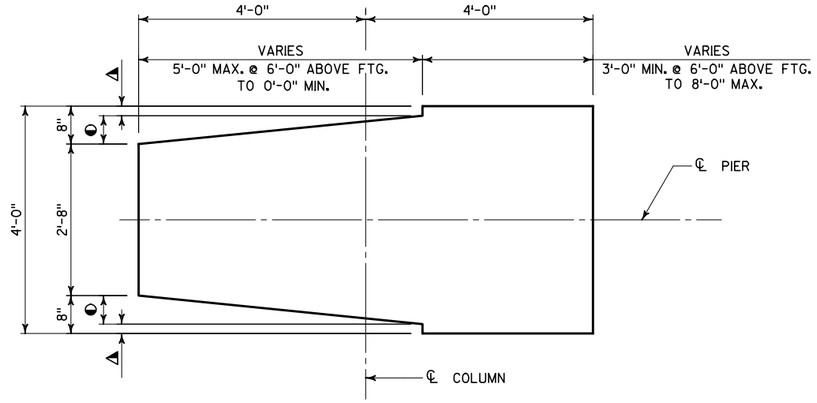
STATE PROJECT NUMBER

1060-05-75

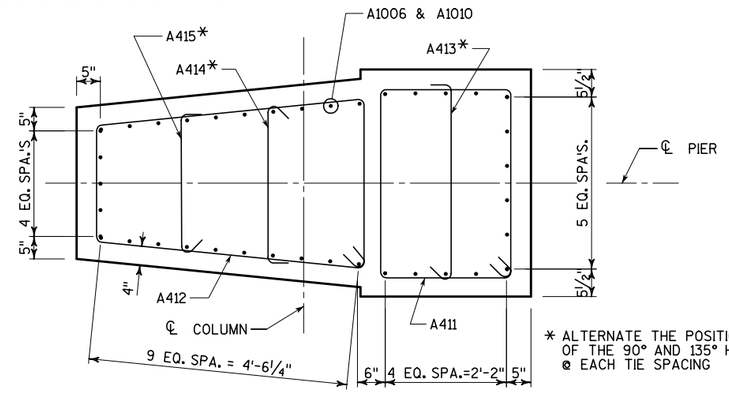


SECTION THRU COLUMN

(SHOWING DIMENSIONS)

◑ VARIES 6" MAX. @ 6'-0" ABOVE FTG. TO 0" MIN.

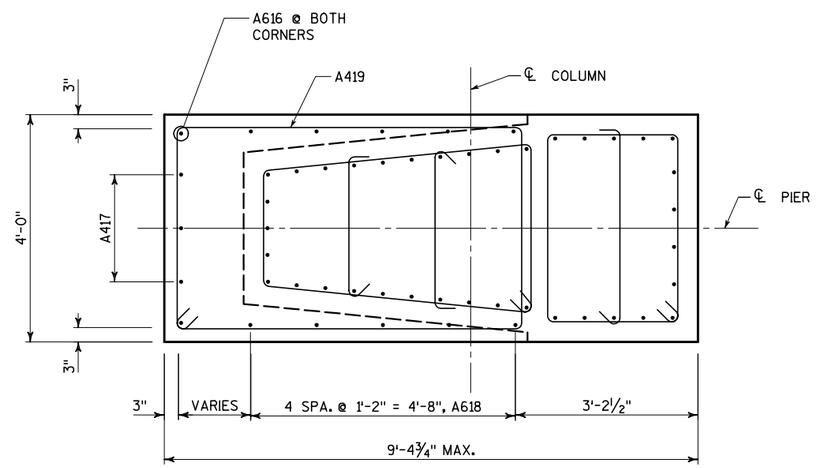
◭ VARIES 2" MIN. @ 6'-0" ABOVE FTG. TO 8" MAX.



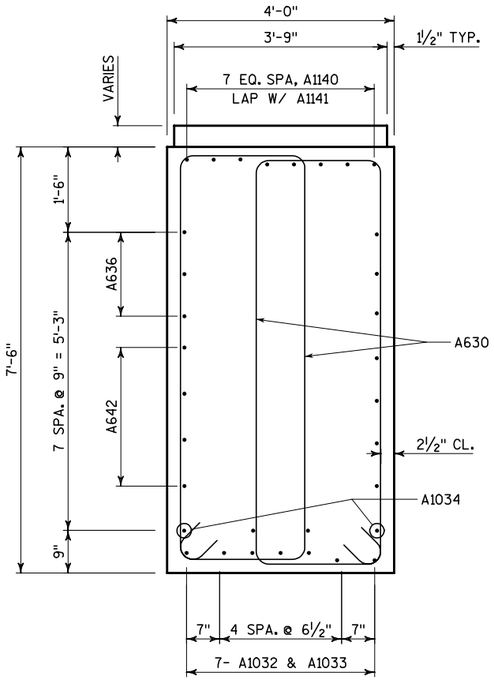
* ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS @ EACH TIE SPACING

SECTION C-C

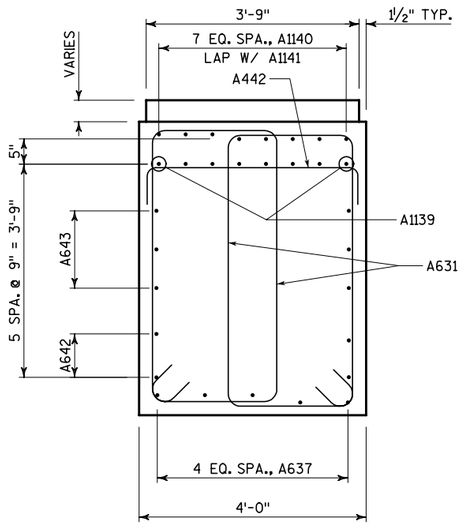
(SHOWING REINFORCEMENT)



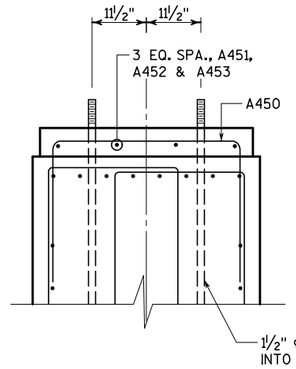
SECTION D-D



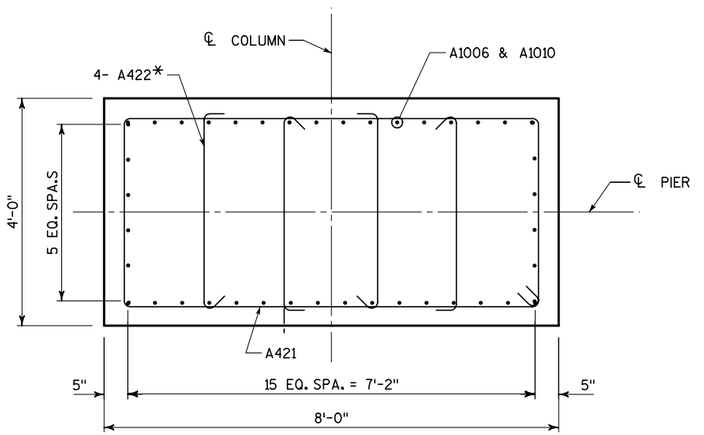
SECTION A-A



SECTION B-B



SECTION THRU GIRDER SEAT



* ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS @ EACH TIE SPACING

SECTION E-E

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

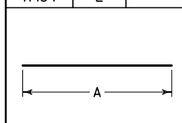
PIER P1-002 DETAILS

SHEET 99 OF 396

2967

FILE NAME: R:\Cbridges\1312\cds\1312-02C009D.dgn PEN TABLE: \\mtp\FinalDgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:31 Plotted by: emccrigh

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
A1001		79	11'-6"	3910	S	11'-6"									FOOTING	BOTTOM
A902		21	13'-6"	964	S	13'-6"									FOOTING	BOTTOM
A503		67	11'-6"	804	S	11'-6"									FOOTING	TOP
A504		13	13'-6"	183	S	13'-6"									FOOTING	TOP
A805		26	11'-6"	798	S	11'-6"									FOOTING	BOTTOM
A1006	E	114	13'-1"	6418	8	11'-7"									FOOTING	DOWEL
A1010	E	114	32'-10"	16107	S	32'-10"									COLUMN	VERTICAL
A411	E	54	11'-10"	427	3	3'-4"	2'-4"								COLUMN	TIES
A412	E	56	15'-1"	564	14	3'-0"	4'-9"	6"							COLUMN	TIES
A413	E	54	4'-0"	144	13	3'-4"									COLUMN	TIES
A414	E	56	3'-4"	125	13	2'-8 1/2"									COLUMN	TIES
A415	E	56	3'-1"	115	13	2'-5"									COLUMN	TIES
A616	E	4	22'-7"	136	S	22'-7"									COLUMN	VERTICAL
A417	E	6	8'-0"	32	S	8'-0"									COLUMN	VERTICAL
A618	E	2 series of 5	19'-1" to 3'-10"	172	S	19'-1" to 3'-10" by 3'-9 3/4"									COLUMN	VERTICAL, BUNDLE & TAG EACH SERIES SEPARATELY
A419	E	2 series of 9	19'-0" to 9'-10"	174	3	5'-8" to 1'-1" by 6 7/8"	3'-7"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
A420	E	2	26'-1"	35	3	9'-2 1/2"	3'-7"								COLUMN	TIES
A421	E	27	21'-10"	394	3	7'-4"	3'-4"								CENTER COL.	TIES
A422	E	108	4'-0"	289	13	3'-4"									CENTER COL.	TIES
A630	E	96	19'-3"	2776	3	7'-1"	2'-3"								CAP	STIRRUPS
A631	E	4 series of 20	15'-7" to 11'-5"	1625	3	5'-3" to 3'-2" by 1 3/8"	2'-3"								CAP	STIRRUPS @ ENDS, BUNDLE AND TAG EACH SERIES SEPARATELY
A1032	E	7	50'-0"	1506	9	4'-2"	45'-10"	12.49							CAP	BOTTOM
A1033	E	7	22'-1"	665	9	4'-2"	17'-11 1/2"	12.49							CAP	BOTTOM
A1034	E	4	60'-0"	1033	4	1'-9 1/2"	57'-0 1/2"								CAP	BOTTOM
A635	E	4 series of 4	35'-4" to 45'-6"	972	1										CAP	SIDES, BUNDLE & TAG EACH SERIES SEPARATELY
A636	E	4 series of 3	47'-6" to 47'-11"	860	1										CAP	SIDES, BUNDLE & TAG EACH SERIES SEPARATELY
A637	E	10	16'-9"	252	1										CAP	BOTTOM @ ENDS
A538	E	10	7'-0"	73	17	2'-0"	3'-2"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
A1139	E	16	24'-10"	2111	4	1'-11 1/2"	21'-8"								CAP	CAPS
A1140	E	8	60'-0"	2550	1										CAP	TOP
A1141	E	8	43'-1"	1831	1										CAP	TOP
A442	E	11	4'-8"	34	4	8"	3'-7"								CAP	TIES
A450	E	93	8'-1"	502	4	2'-6"	3'-4"								CAP SEAT	VERTICAL GIRDER SEATS
A451	E	12	11'-1"	89	S	11'-1"									CAP SEAT	HORIZ. GIRDER SEATS
A452	E	4	12'-11"	35	S	12'-11"									CAP SEAT	HORIZ. GIRDER SEATS
A453	E	8	11'-1"	59	S	11'-1"									CAP SEAT	HORIZ. GIRDER SEATS
A454	E	4	11'-1"	30	1										CAP SEAT	HORIZ. GIRDER SEATS



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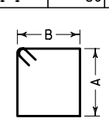
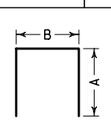


TYPE 3



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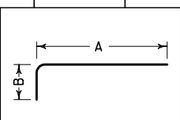
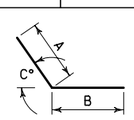


TYPE 8



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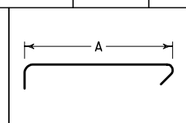

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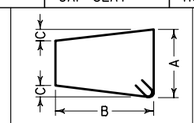

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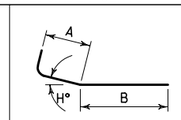

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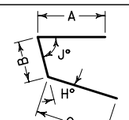


TYPE 17

TOTAL NON-EPOXY REINFORCEMENT WT (LB)	6659
TOTAL EPOXY REINFORCEMENT WT (LB)	42136

STATE PROJECT NUMBER

1060-05-75

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

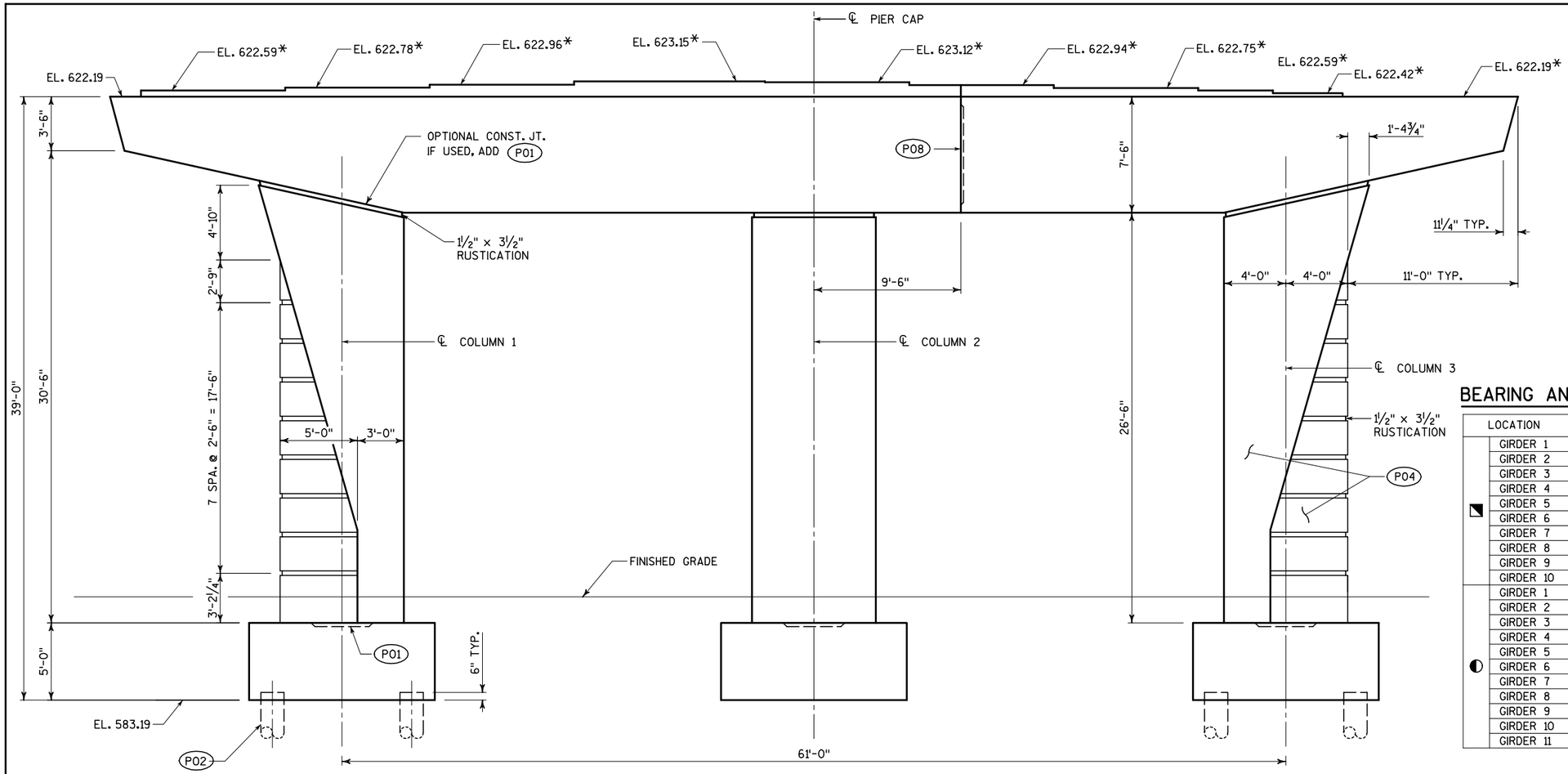
PIER P1-002
REINF. SCHEDULE

SHEET 100 OF 396

2968

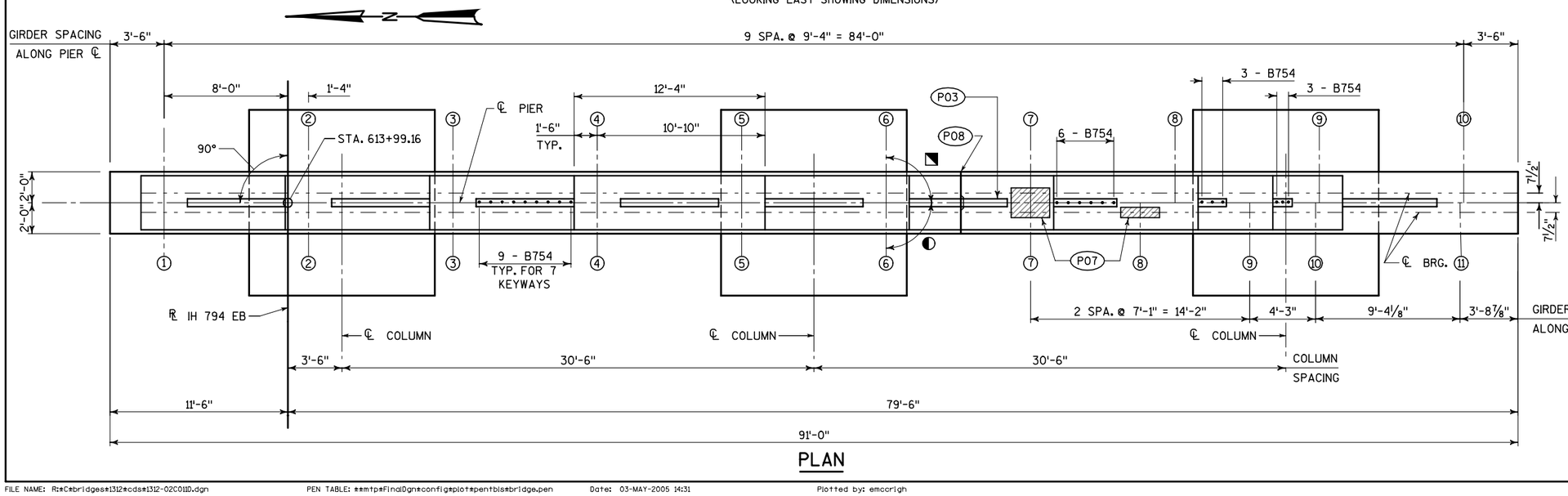
STATE PROJECT NUMBER

1060-05-75



ELEVATION

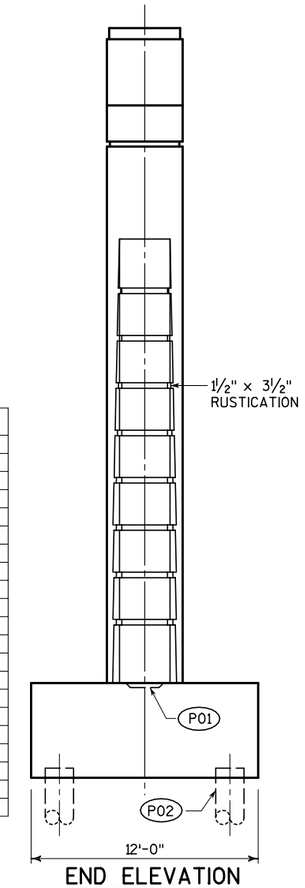
(LOOKING EAST-SHOWING DIMENSIONS)



PLAN

BEARING ANGLE

LOCATION		ANGLE
◥	GIRDER 1	90°0'0.0"
	GIRDER 2	90°0'0.0"
	GIRDER 3	90°0'0.0"
	GIRDER 4	90°0'0.0"
	GIRDER 5	90°0'0.0"
	GIRDER 6	90°0'0.0"
	GIRDER 7	90°0'0.0"
	GIRDER 8	90°0'0.0"
	GIRDER 9	90°0'0.0"
	GIRDER 10	90°0'0.0"
◐	GIRDER 1	90°0'0.0"
	GIRDER 2	90°0'0.0"
	GIRDER 3	90°0'0.0"
	GIRDER 4	90°0'0.0"
	GIRDER 5	90°0'0.0"
	GIRDER 6	90°0'0.0"
	GIRDER 7	90°0'0.0"
	GIRDER 8	90°0'0.0"
	GIRDER 9	90°0'0.0"
	GIRDER 10	88°45'16.7"
	GIRDER 11	88°45'16.7"



END ELEVATION

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 195 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 75'.

(P03) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 2" X 6".

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 383.

(P07) ½" THICK ELASTOMERIC BEARING PAD, SEE SHEET 399 FOR DETAILS.

(P08) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 2" X 12" X 6'-6"

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P2-002

SHEET 101 OF 396

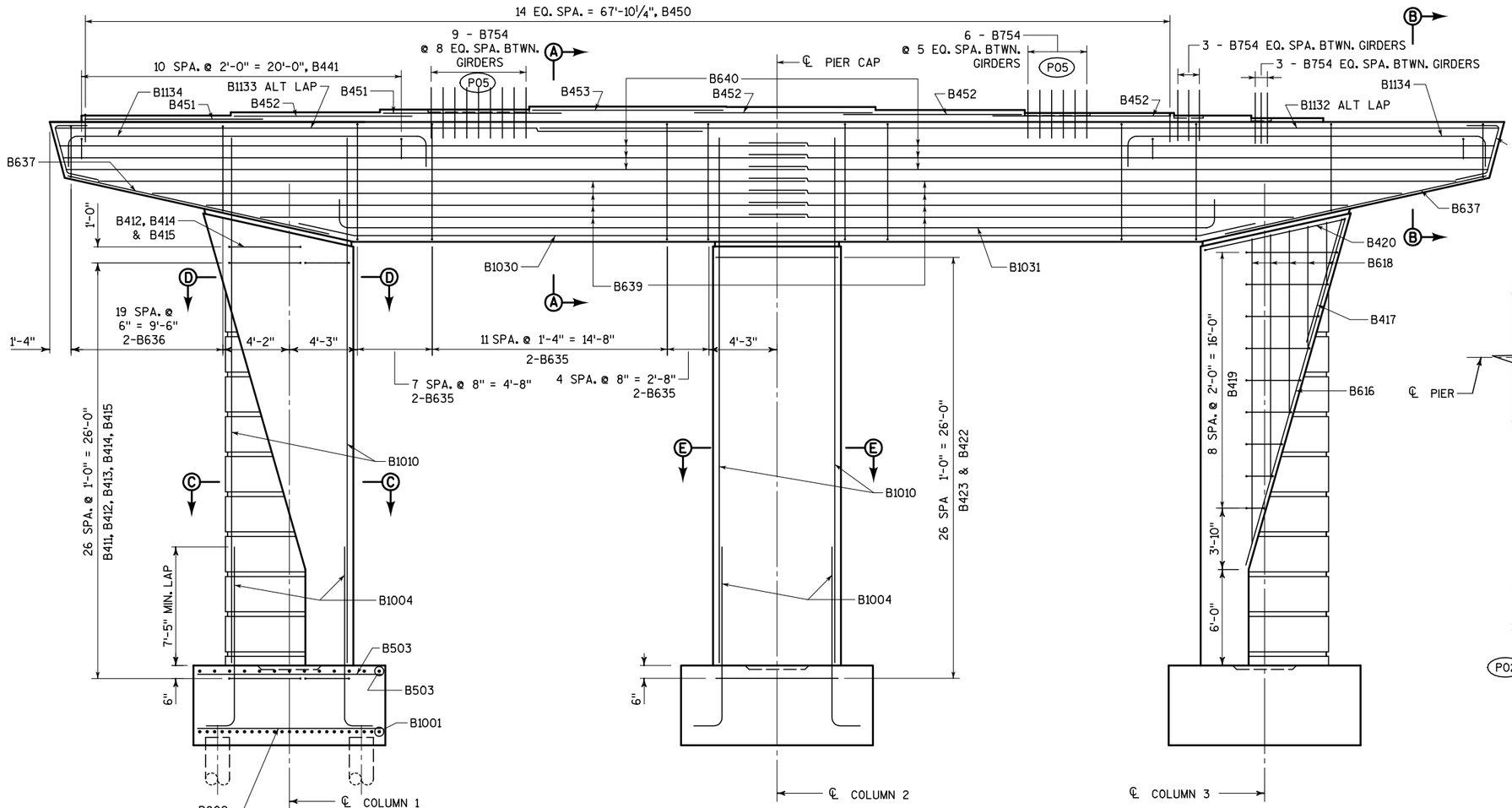
2969

8

FILE NAME: R:\C\bridges\1312\cds\1312-02C011D.dgn PEN TABLE: \\mtp\FinalDgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:31 Plotted by: emccrigh

STATE PROJECT NUMBER

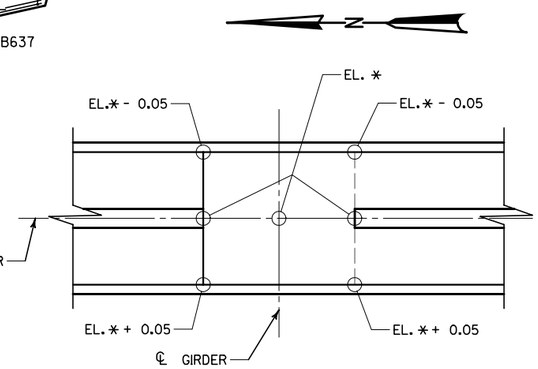
1060-05-75



ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)

NOTE: REINFORCEMENT IS SYMMETRIC ABOUT ℄ PIER CAP



SLOPING BEAM SEAT DETAIL

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 195 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 75'.

NOTE - PROPOSED PILES MAY BE ADJUSTED UP TO 6" EACH WAY TO AVOID CONFLICTS WITH EXISTING PILES. IF GREATER ADJUSTMENT IS REQUIRED, CONTACT THE ENGINEER FOR ADDITIONAL INSTRUCTIONS BEFORE PROCEEDING.

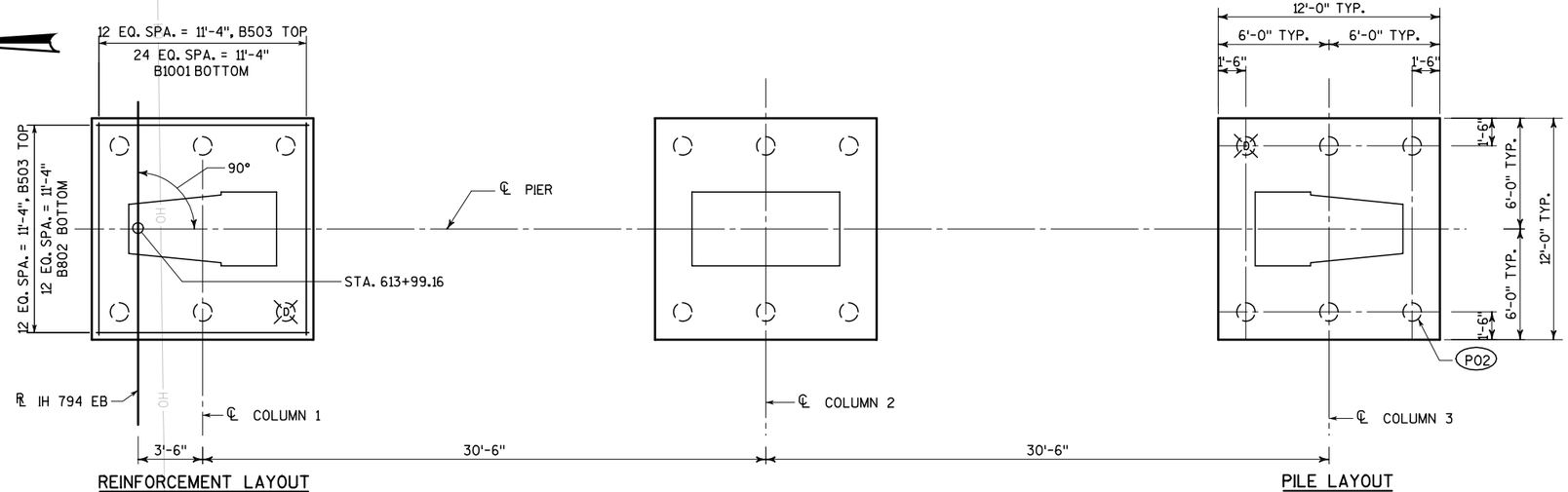
LOCATION OF EXISTING PILES IS SHOWN BASED ON AS-BUILT DRAWINGS ONLY. FIELD VERIFY PILE LOCATIONS IMMEDIATELY AFTER EXPOSURE AND NOTIFY THE ENGINEER OF ANY DEVIATIONS NOTED.

(P05) B754 BARS AT 6 EQ. SPA. BETWEEN BEAM SEATS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. EMBED 1'-7".

(D) DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.



REINFORCEMENT LAYOUT

FOOTING PLAN

PILE LAYOUT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P2-002
REINF. LAYOUT

SHEET 102 OF 396

2970

8

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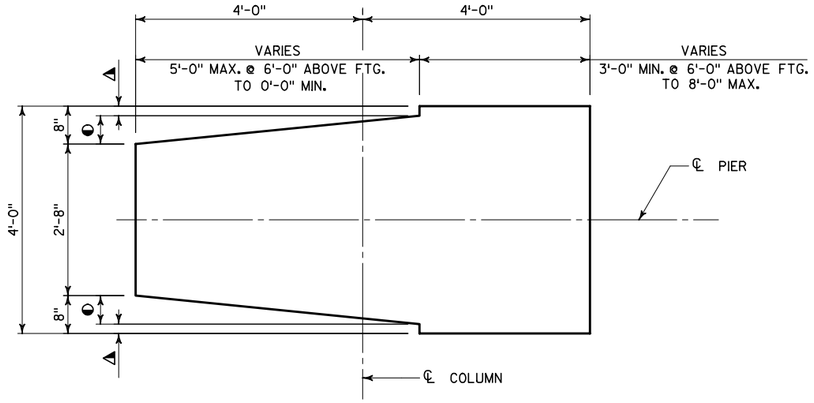
STATE PROJECT NUMBER
1060-05-75

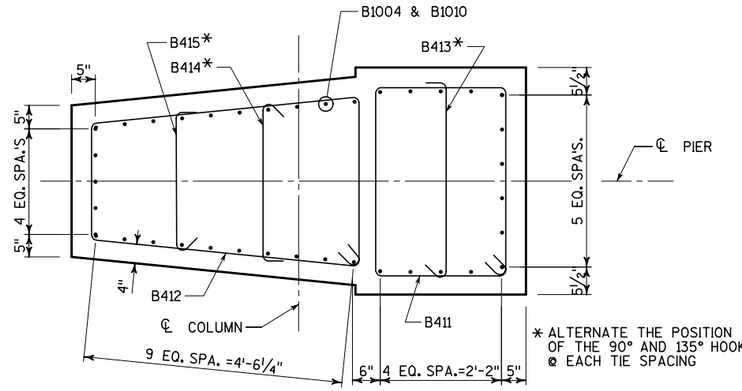


SECTION THRU COLUMN

(SHOWING DIMENSIONS)

◑ VARIES 6" MAX. @ 6'-0" ABOVE FTG. TO 0" MIN.

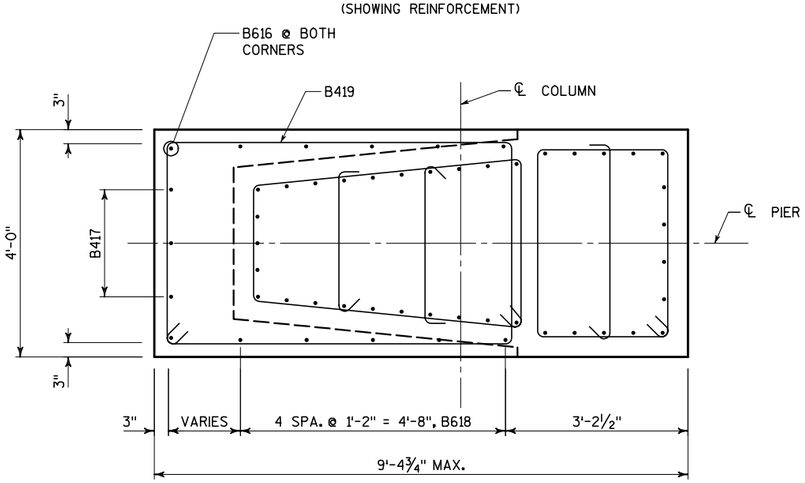
◭ VARIES 2" MIN. @ 6'-0" ABOVE FTG. TO 8" MAX.



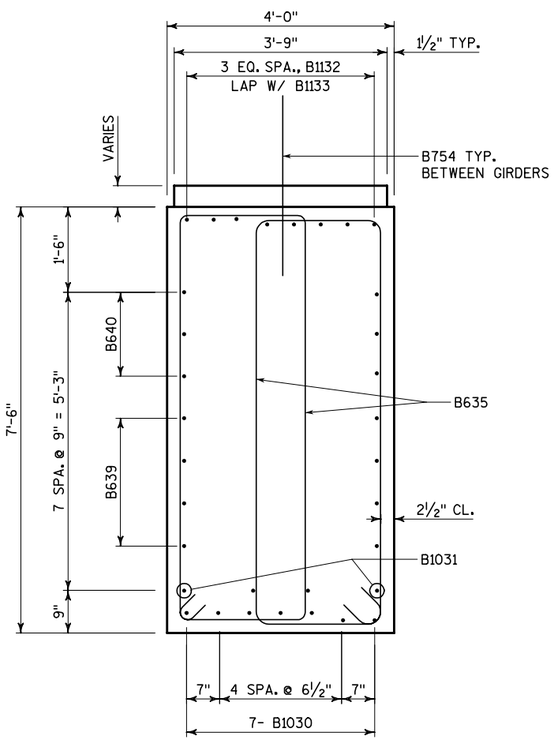
* ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS @ EACH TIE SPACING

SECTION C-C

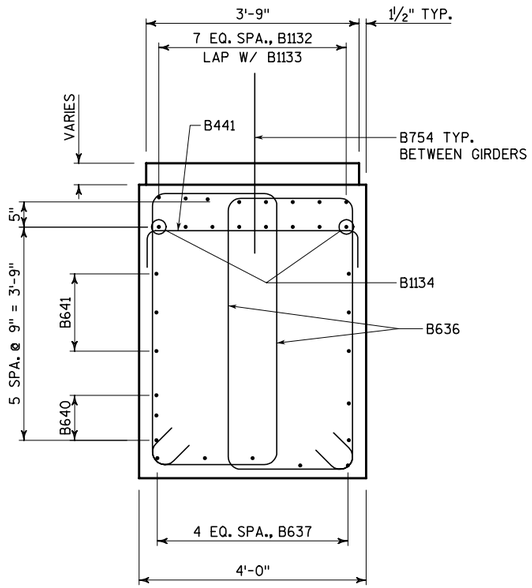
(SHOWING REINFORCEMENT)



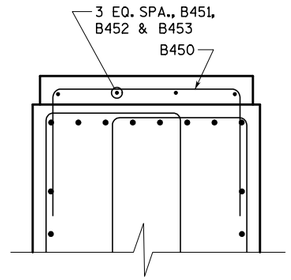
SECTION D-D



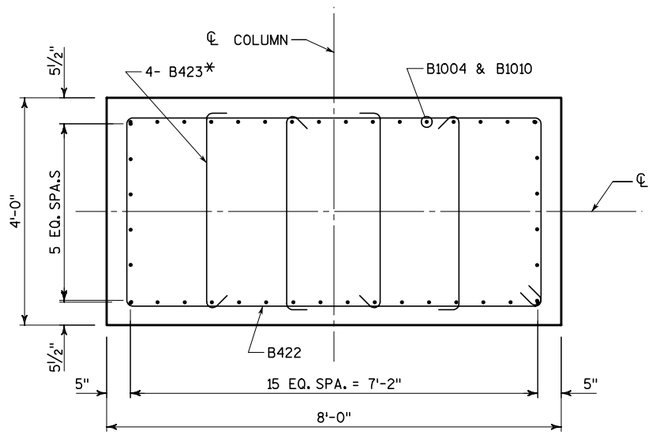
SECTION A-A



SECTION B-B



SECTION THRU GIRDER SEAT



* ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS @ EACH TIE SPACING

SECTION E-E

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P2-002 DETAILS

SHEET 103 OF 396

2971

8

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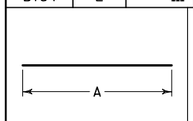
STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
B1001		75	11'-6"	3712	S	11'-6"									FOOTING	BOTTOM
B802		39	11'-6"	1198	S	11'-6"									FOOTING	BOTTOM
B503		78	11'-6"	936	S	11'-6"									FOOTING	TOP
B1004	E	114	13'-1"	6418	8	11'-7"									FOOTING	DOWEL
B1010	E	114	32'-10"	16107	S	32'-10"									COLUMN	VERTICAL
B411	E	54	11'-10"	427	3	3'-4"	2'-4"								COLUMN	TIES
B412	E	56	15'-1"	564	14	3'-0"	4'-9"	6"							COLUMN	TIES
B413	E	54	4'-0"	144	13	3'-4"									COLUMN	TIES
B414	E	56	3'-4"	125	13	2'-8½"									COLUMN	TIES
B415	E	56	3'-1"	115	13	2'-5"									COLUMN	TIES
B616	E	4	22'-7"	136	S	22'-7"									COLUMN	VERTICAL
B417	E	6	8'-0"	32	S	8'-0"									COLUMN	TIES
B618	E	2 series of 5	19'-1" to 3'-10"	172	S	19'-1" to 3'-10" by 3'-9¾"									COLUMN	VERTICAL, BUNDLE & TAG EACH SERIES SEPARATELY
B419	E	2 series of 9	19'-0" to 9'-10"	174	3	5'-8" to 1'-1" by 6⅞"	3'-7"								COLUMN	TIES, BUNDLE & TAG EACH SERIES SEPARATELY
B420	E	2	26'-1"	35	3	9'-2½"	3'-7"								COLUMN	TIES
B422	E	27	21'-10"	394	3	7'-4"	3'-4"								CENTER COLUMN	TIES
B423	E	108	4'-0"	289	13	3'-4"									CENTER COLUMN	TIES
B1030	E	7	60'-0"	1807	24	3'-6½"	52'-11"	12.49							CAP	BOTTOM
B1031	E	4	57'-9"	994	4	1'-9½"	54'-10"								CAP	BOTTOM
B1132	E	8	60'-0"	2550	1										CAP	TOP
B1133	E	8	40'-6"	1722	1										CAP	TOP
B1134	E	16	24'-10"	2111	4	1'-11½"	21'-8"								CAP	CAPS
B635	E	92	19'-3"	2660	3	7'-1"	2'-3"								CAP	STIRRUPS
B636	E	4 series of 20	15'-7" to 11'-5"	1625	3	5'-3" to 3'-2" by 1⅜"	2'-3"								CAP	STIRRUPS @ ENDS, BUNDLE & TAG EACH SERIES SEPARATELY
B637	E	10	16'-9"	252	1										CAP	BOTTOM @ ENDS
B538	E	10	7'-0"	73	17	2'-0"	3'-2"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
B639	E	4 series of 4	34'-1" to 44'-3"	941	1										CAP	SIDES, BUNDLE & TAG EACH SERIES SEPARATELY
B640	E	4 series of 3	46'-3" to 46'-7"	837	1										CAP	SIDES, BUNDLE & TAG EACH SERIES SEPARATELY
B441	E	11	4'-8"	34	4	8"	3'-7"								CAP	TIES
B450	E	15	7'-7"	76	4	2'-3"	3'-4"								CAP SEAT	VERTICAL GIRDER SEATS
B451	E	8	11'-1"	59	S	11'-1"									CAP SEAT	HORIZ. GIRDER SEATS
B452	E	16	11'-1"	118	S	11'-1"									CAP SEAT	HORIZ. GIRDER SEATS
B453	E	4	11'-11"	32	S	11'-11"									CAP SEAT	HORIZ. GIRDER SEATS
B754	E	111	3'-2"	719	S	3'-2"									CAP SEAT	DIAPHRAGM DOWEL



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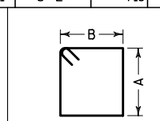

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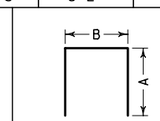

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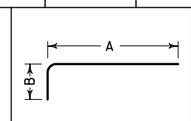
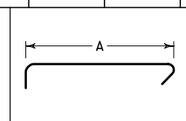
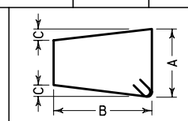


TYPE 8



TYPE 13



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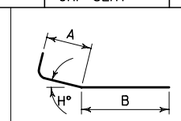

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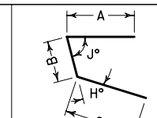
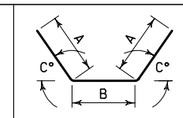


TYPE 17



TYPE 24

TOTAL NON-EPOXY REINFORCEMENT WT (LB)	5845
TOTAL EPOXY REINFORCEMENT WT (LB)	41743

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

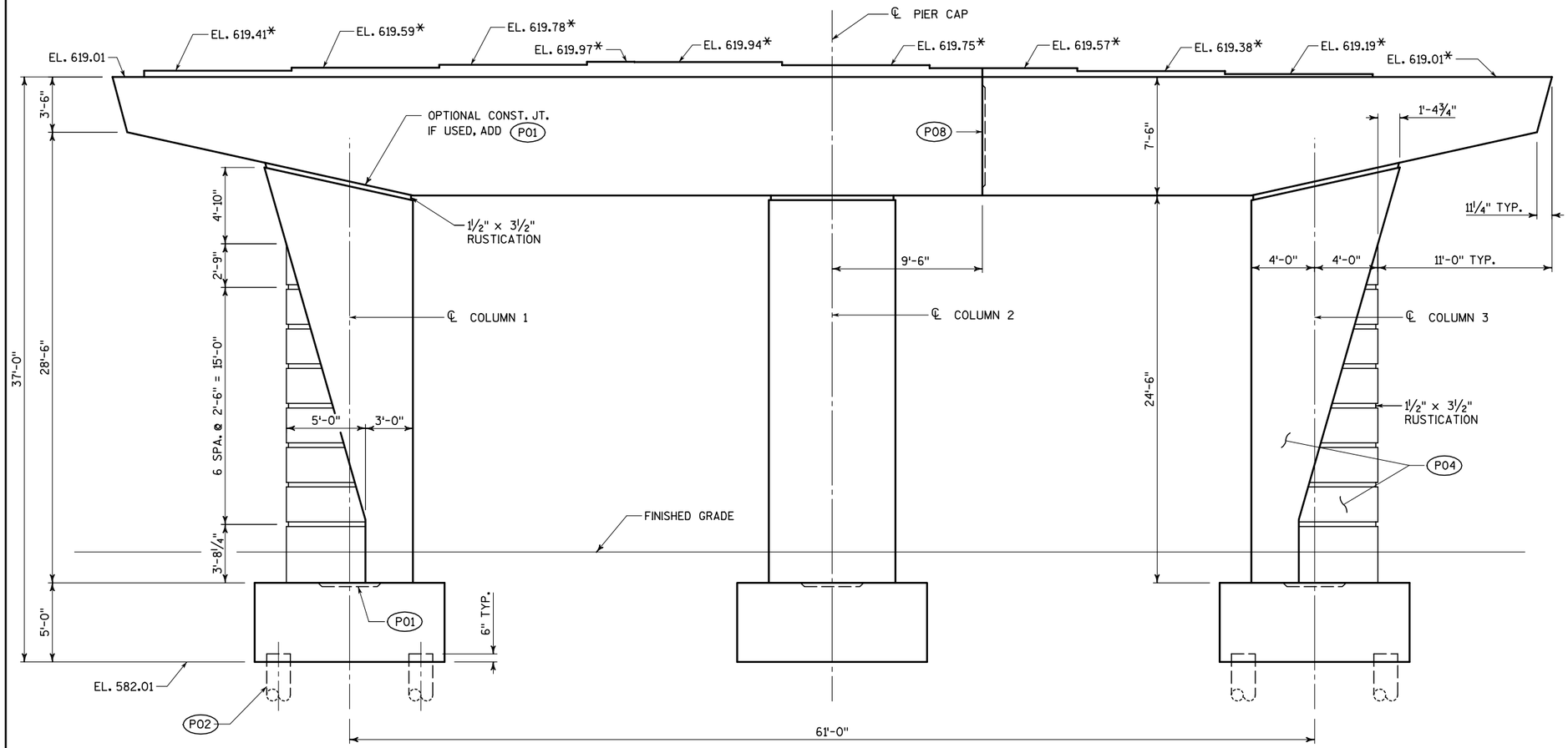
CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

PIER P2-002
REINF. SCHEDULE

SHEET 104 OF 396
2972

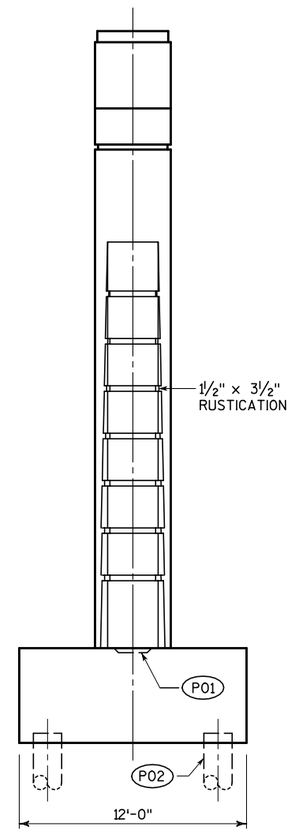
STATE PROJECT NUMBER

1060-05-75

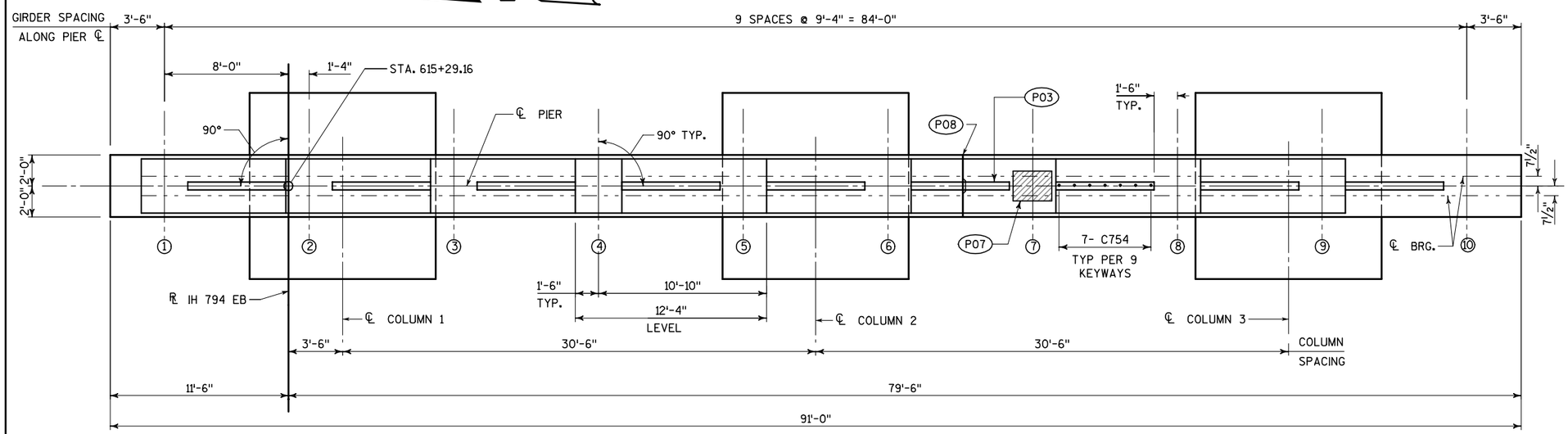


ELEVATION

(LOOKING EAST-SHOWING DIMENSIONS)



END ELEVATION



PLAN

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 190 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 105'.

(P03) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 2" X 6".

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 383.

(P07) ½" THICK ELASTOMERIC BEARING PAD, SEE SHEET 360 FOR DETAILS.

(P08) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 2" X 12" X 6'-6"

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P3-002

SHEET 105 OF 396

2973

8

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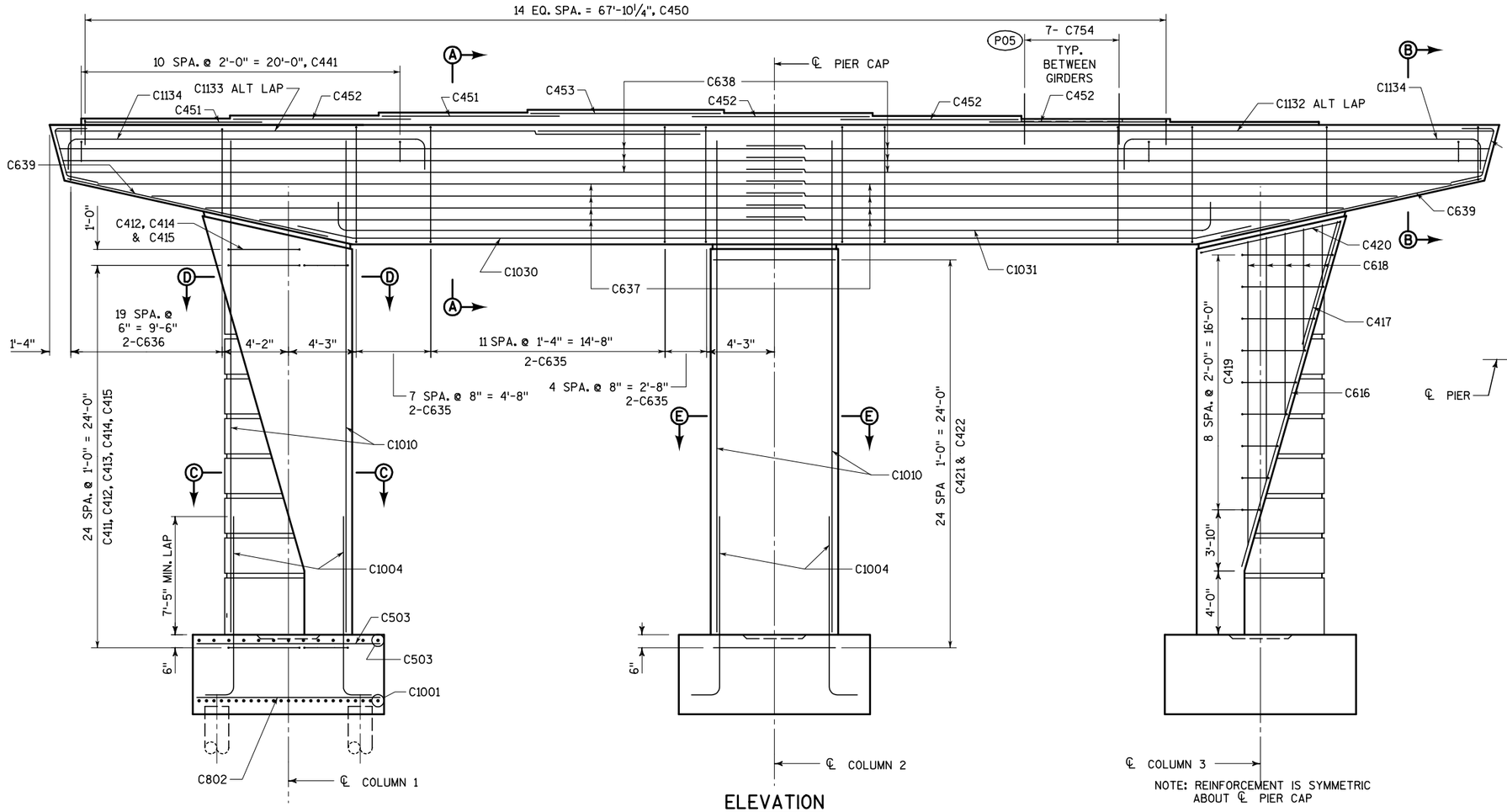
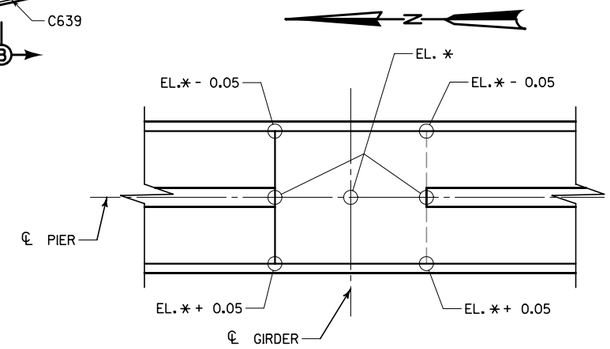
STATE PROJECT NUMBER
1060-05-75

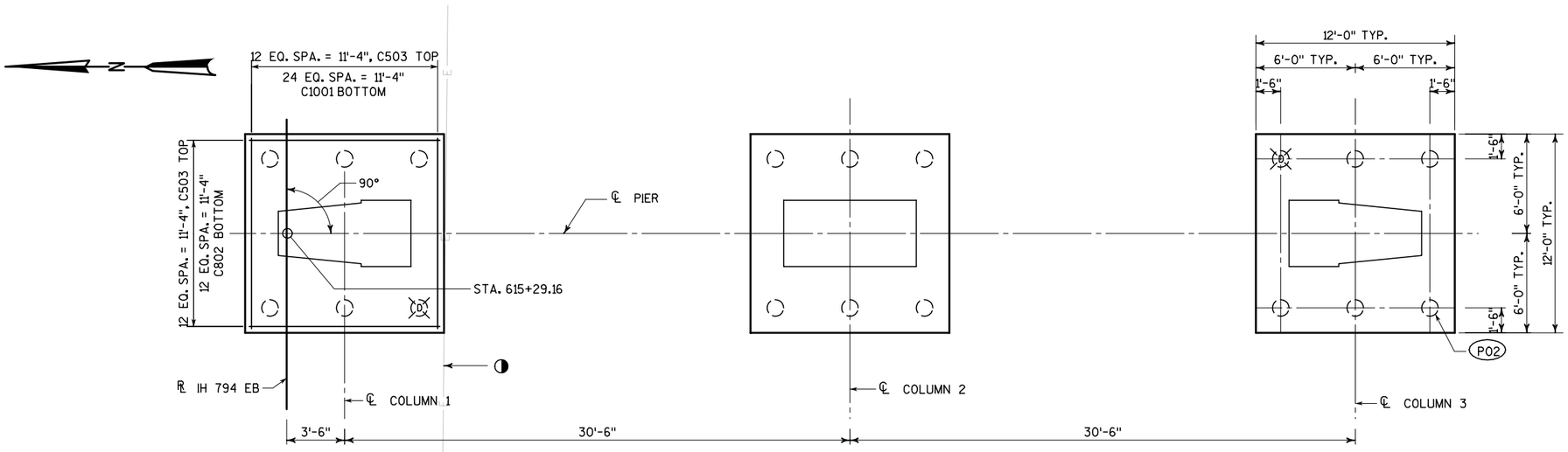


ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)



SLOPING BEAM SEAT DETAIL



FOOTING PLAN

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 190 TONS ALLOWABLE LOAD. ESTIMATED LENGTH = 105'.

(P05) C754 BARS BETWEEN GIRDER SEATS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. EMBED 1'-7".

DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

WE ENERGIES ELECTRICAL LINE ABANDONED IN PLACE, REMOVE AS NECESSARY FOR FOOTING CONSTRUCTION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P3-002 REINF. LAYOUT

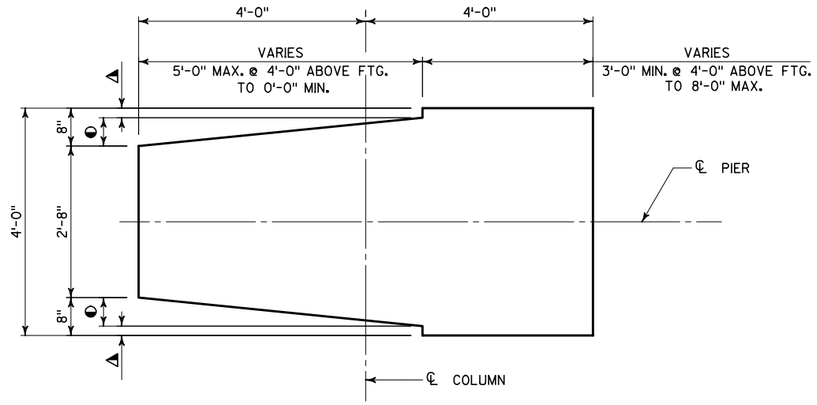
SHEET 106 OF 396

2974

8

STATE PROJECT NUMBER

1060-05-75

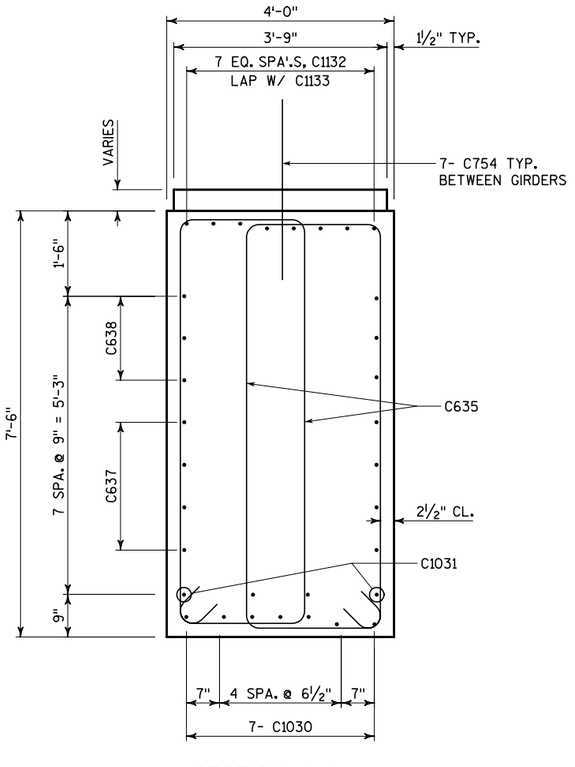


SECTION THRU COLUMN

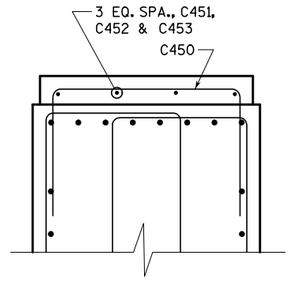
(SHOWING DIMENSIONS)

◑ VARIES 6" MAX. @ 4'-0" ABOVE FTG. TO 0" MIN.

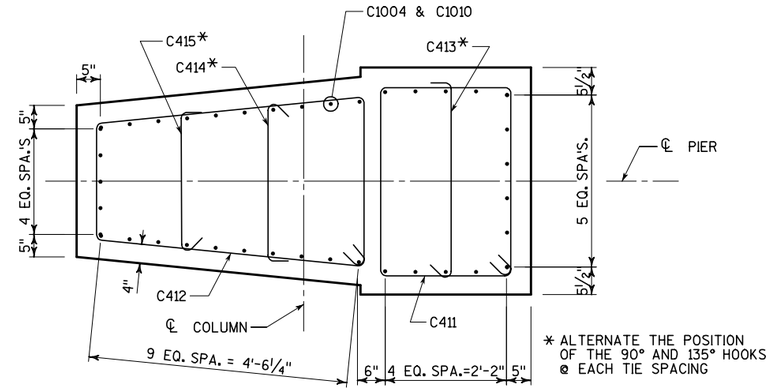
◭ VARIES 2" MIN. @ 4'-0" ABOVE FTG. TO 8" MAX.



SECTION A-A



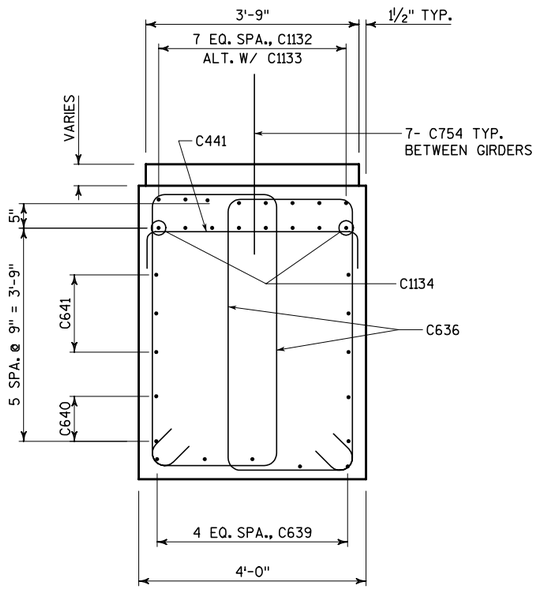
SECTION THRU GIRDER SEAT



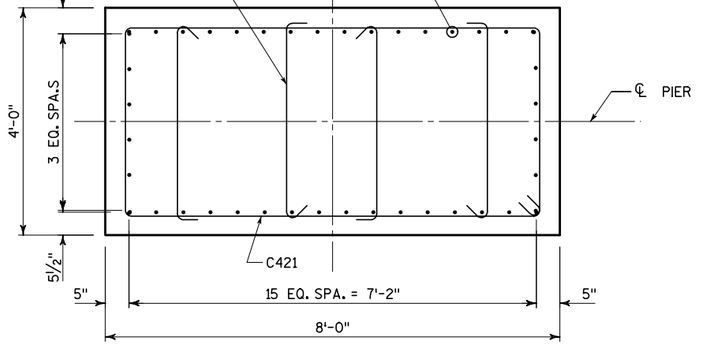
* ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS @ EACH TIE SPACING

SECTION C-C

(SHOWING REINFORCEMENT)

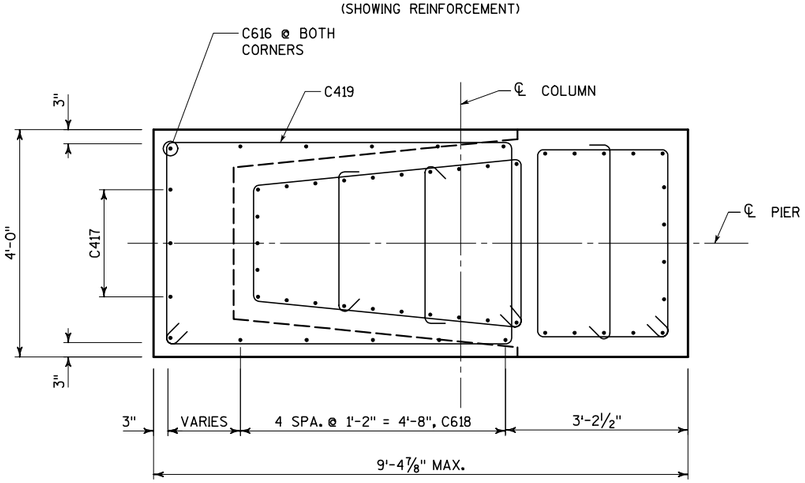


SECTION B-B



* ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS @ EACH TIE SPACING

SECTION E-E



SECTION D-D

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P3-002 DETAILS

SHEET 107 OF 396

2975

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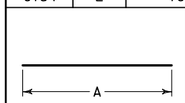
STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
C1001		75	11'-6"	3712	1	11'-6"									FOOTING	BOTTOM
C802		39	11'-6"	1198	1	11'-6"									FOOTING	BOTTOM
C503		78	11'-6"	936	1	11'-6"									FOOTING	TOP
C1004	E	114	13'-1"	6418	8	11'-7"									FOOTING	DOWEL
C1010	E	114	30'-10"	15126	1	30'-10"									COLUMN	VERTICAL
C411	E	50	11'-10"	395	3	3'-4"	2'-4"								COLUMN	TIES
C412	E	52	15'-1"	524	14	3'-0"	4'-9"	6"							COLUMN	TIES
C413	E	50	4'-0"	134	13	3'-4"									COLUMN	TIES
C414	E	52	3'-4"	116	13	2'-8½"									COLUMN	TIES
C415	E	52	3'-1"	107	13	2'-5"									COLUMN	TIES
C616	E	4	22'-7"	136	1	22'-7"									COLUMN	VERTICAL
C417	E	6	8'-0"	32	1	8'-0"									COLUMN	VERTICAL
C618	E	2 series of 5	19'-1" to 3'-10"	172	1	19'-1" to 3'-10" by 3'-9¾"									COLUMN	VERTICAL, BUNDLE & TAG EACH SERIES SEPARATELY
C419	E	2 series of 9	19'-0" to 9'-10"	174	3	5'-8" to 1'-1" by 6⅞"	3'-7"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
C420	E	2	26'-1"	35	3	9'-2½"	3'-7"								COLUMN	TIES
C421	E	25	21'-10"	365	3	7'-4"	3'-4"								CENTER COLUMN	TIES
C422	E	100	4'-0"	267	13	3'-4"									CENTER COLUMN	TIES
C1030	E	7	60'-0"	1807	24	3'-6½"	52'-11"	12.49							CAP	BOTTOM
C1031	E	4	57'-9"	994	4	1'-9½"	54'-10"								CAP	BOTTOM
C1132	E	8	60'-0"	2550	1										CAP	TOP
C1133	E	8	40'-6"	1722	1										CAP	TOP
C1134	E	16	24'-10"	2111	4	1'-11½"	21'-8"								CAP	TOP
C635	E	92	19'-7"	2706	3	7'-1"	2'-5"								CAP	STIRRUPS
C636	E	4 series of 20	15'-7" to 11'-5"	1625	3	5'-3" to 3'-2" by 1⅜"	2'-3"								CAP	STIRRUPS @ ENDS, BUNDLE & TAG EACH SERIES SEPARATELY
C637	E	4 series of 4	34'-1" to 44'-3"	941	1										CAP	SIDES, BUNDLE & TAG EACH SERIES SEPARATELY
C638	E	4 series of 3	46'-3" to 46'-7"	837	1										CAP	SIDES, BUNDLE & TAG EACH SERIES SEPARATELY
C639	E	10	16'-9"	252	1										CAP	BOTTOM @ ENDS
C540	E	10	7'-0"	73	17	2'-0"	3'-2"	2'-0"					62.51	75.00	CAP	VERTICAL GIRDER SEATS
C441	E	11	4'-8"	34	4	8"	3'-7"								CAP	TIES
C450	E	15	7'-7"	76	4	2'-3"	3'-4"								CAP SEAT	VERTICAL GIRDER SEATS
C451	E	8	11'-1"	59	1	11'-1"									CAP SEAT	HORIZ. GIRDER SEATS
C452	E	16	11'-1"	118	1	11'-1"									CAP SEAT	HORIZ. GIRDER SEATS
C453	E	4	11'-11"	32	1	11'-11"									CAP SEAT	HORIZ. GIRDER SEATS
C754	E	70	3'-2"	453	1	3'-2"									CAP SEAT	DIAPHRAGM DOWEL



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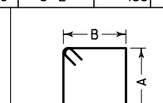

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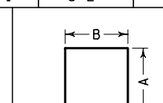

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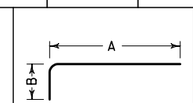
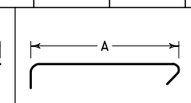
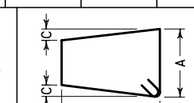


TYPE 8



TYPE 13



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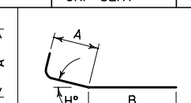

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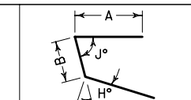

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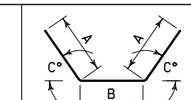


TYPE 24

TOTAL NON-EPOXY REINFORCEMENT WT (LB)	5845
TOTAL EPOXY REINFORCEMENT WT (LB)	40392

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

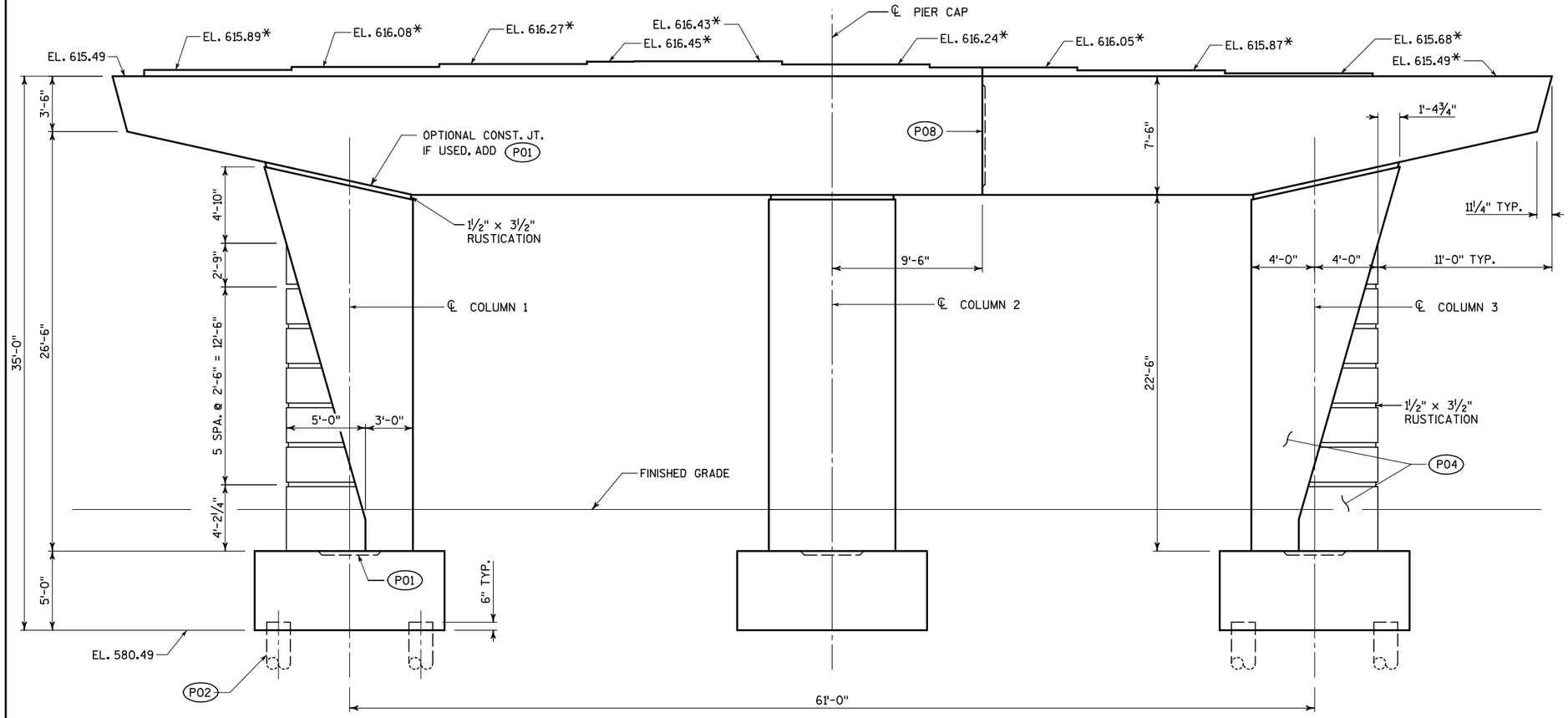
PIER P3-002
REINF. SCHEDULE

SHEET 108 OF 396

2976

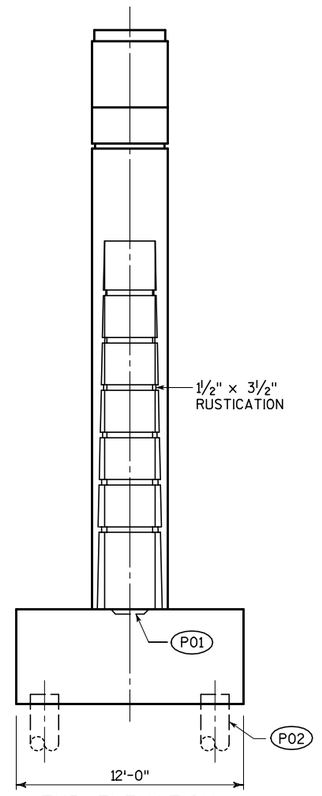
STATE PROJECT NUMBER

1060-05-75



ELEVATION

(LOOKING EAST-SHOWING DIMENSIONS)



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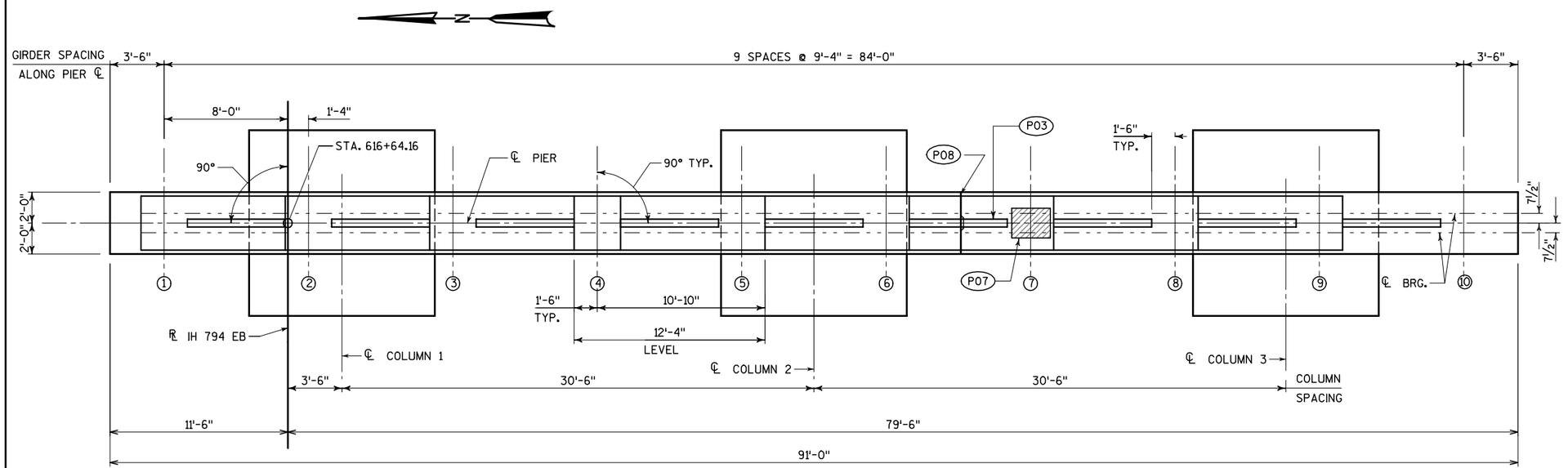

PLAN

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 210 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 105'.

(P03) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 2" X 6".

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 383.

(P07) ½" THICK ELASTOMERIC BEARING PAD, SEE SHEET 360 FOR DETAILS.

(P08) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 2" X 12" X 6'-6"

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P4-002

SHEET 109 OF 396

2977

8

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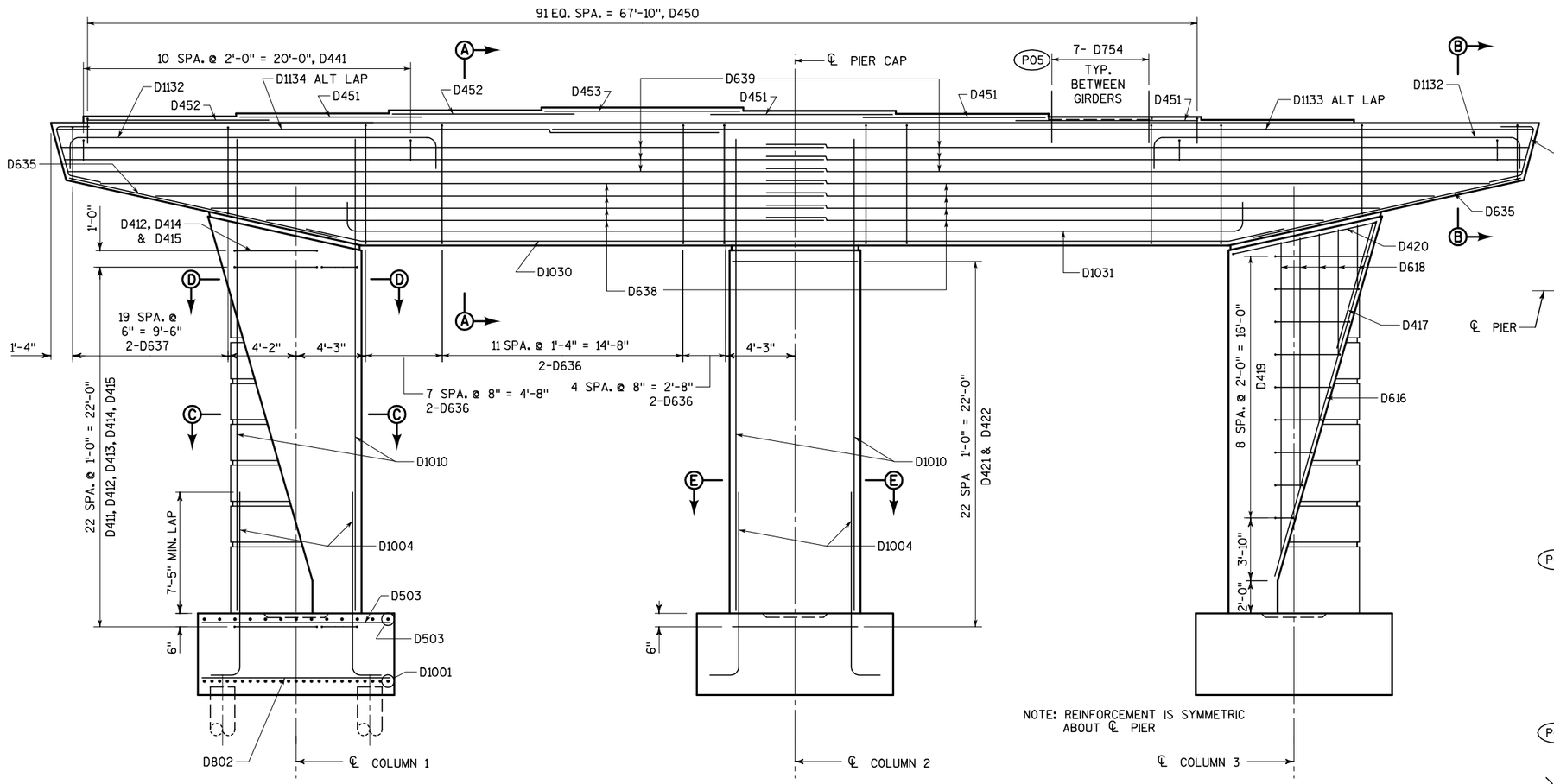
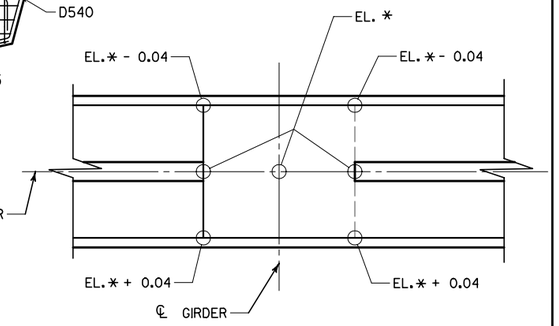
STATE PROJECT NUMBER
1060-05-75



NOTE: REINFORCEMENT IS SYMMETRIC ABOUT ℄ PIER

ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)



SLOPING BEAM SEAT DETAIL

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 210 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 105'.

NOTE - PROPOSED PILES MAY BE ADJUSTED UP TO 6" EACH WAY TO AVOID CONFLICTS WITH EXISTING PILES. IF GREATER ADJUSTMENT IS REQUIRED, CONTACT THE ENGINEER FOR ADDITIONAL INSTRUCTIONS BEFORE PROCEEDING.

LOCATION OF EXISTING PILES IS SHOWN BASED ON AS-BUILT DRAWINGS ONLY. FIELD VERIFY PILE LOCATIONS IMMEDIATELY AFTER EXPOSURE AND NOTIFY THE ENGINEER OF ANY DEVIATIONS NOTED.

(P05) D754 BARS AT 6 EQ. SPA. BETWEEN BEAM SEATS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. EMBED 1'-7".

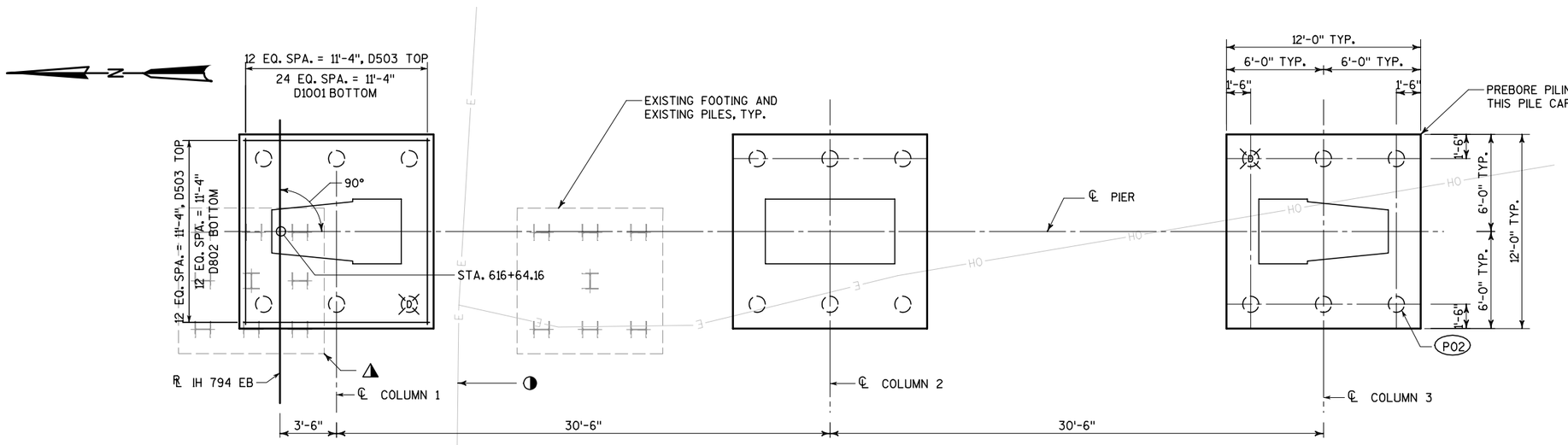
DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

◭ CUT OFF PILING IN EXIST. FOOTING THAT IS IN THE FOOTPRINT OF THE PROPOSED FOOTING 2'-0" BELOW BOTTOM OF PROPOSED FOOTING. DO NOT INCORPORATE EXIST. PILING INTO PROPOSED FOOTING.

◐ WE ENERGIES ELECTRICAL LINE ABANDONED IN PLACE, REMOVE AS NECESSARY FOR FOOTING CONSTRUCTION.



FOOTING PLAN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

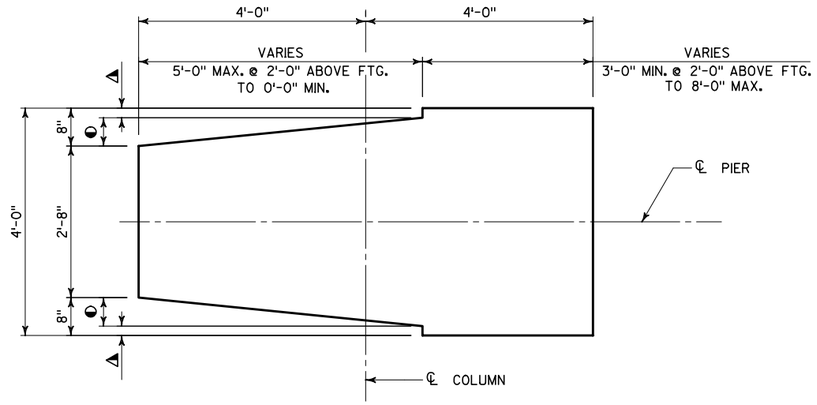
CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P4-002
REINF. LAYOUT

SHEET 110 OF 396
2978

8

STATE PROJECT NUMBER
1060-05-75

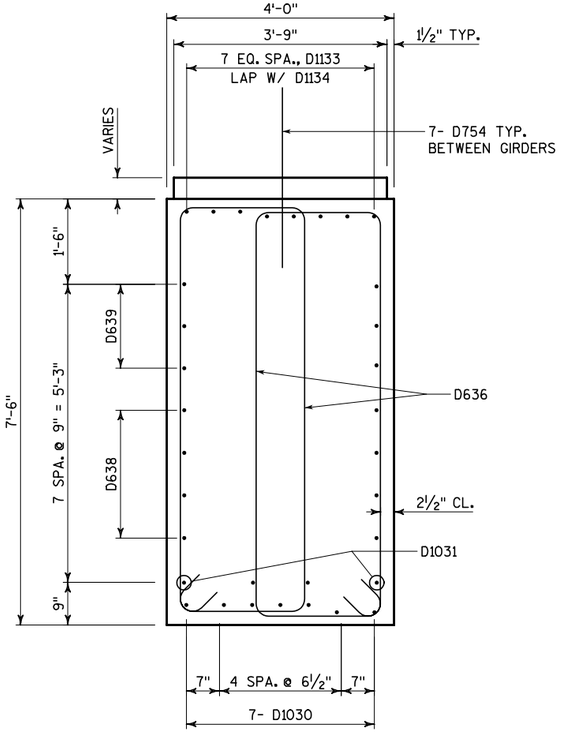


SECTION THRU COLUMN

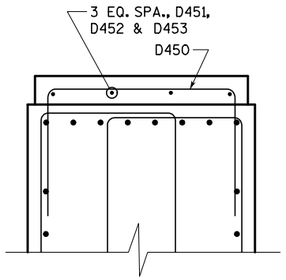
(SHOWING DIMENSIONS)

◑ VARIES 6" MAX. @ 2'-0" ABOVE FTG. TO 0" MIN.

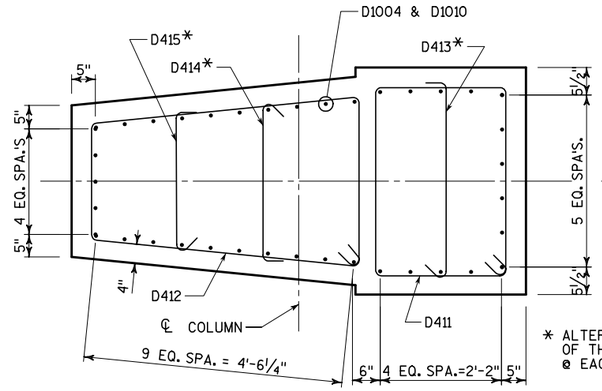
◭ VARIES 2" MIN. @ 2'-0" ABOVE FTG. TO 8" MAX.



SECTION A-A



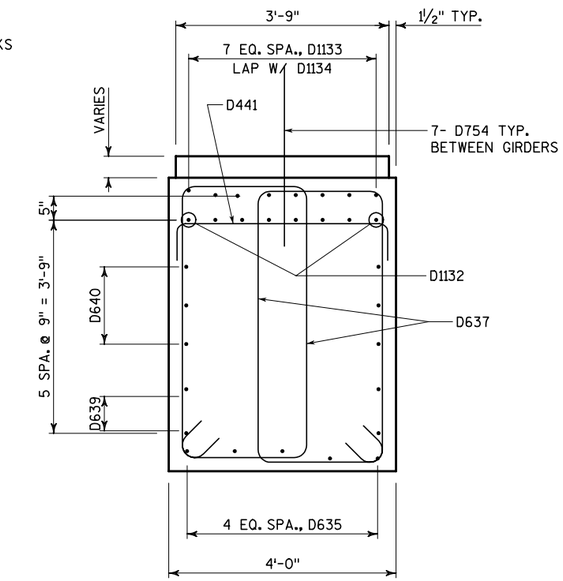
SECTION THRU GIRDER SEAT



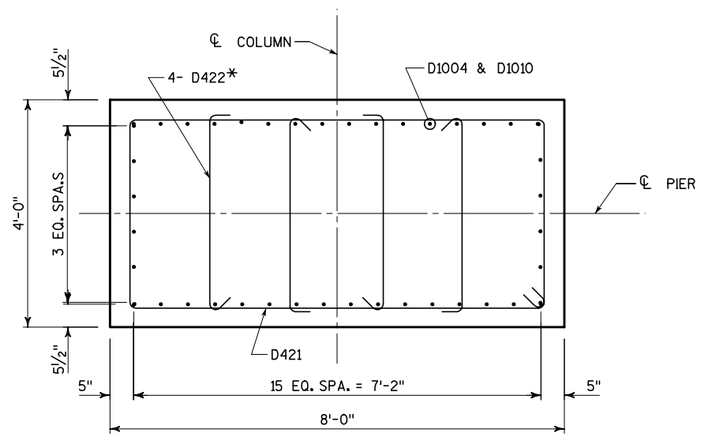
* ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS @ EACH TIE SPACING

SECTION C-C

(SHOWING REINFORCEMENT)

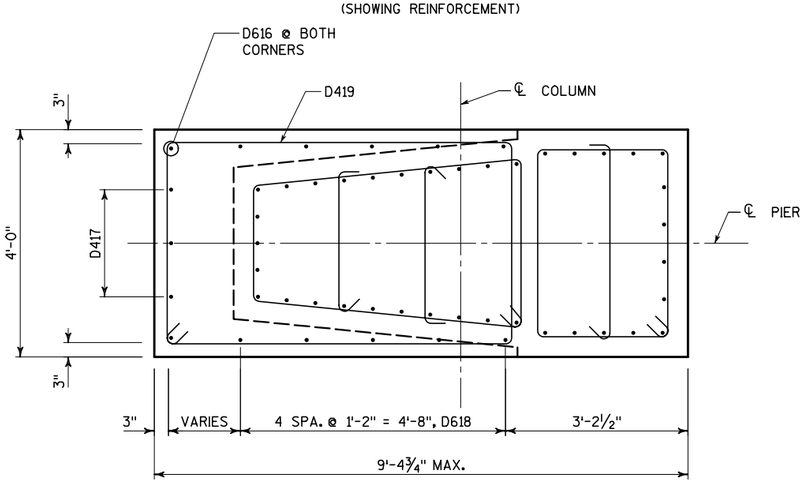


SECTION B-B



* ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS @ EACH TIE SPACING

SECTION E-E



SECTION D-D

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P4-002 DETAILS

SHEET 111 OF 396

2979

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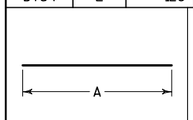
STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
D1001		75	11'-6"	3712	S	11'-6"									FOOTING	BOTTOM
D802		39	11'-6"	1198	S	11'-6"									FOOTING	BOTTOM
D503		78	11'-6"	936	S	11'-6"									FOOTING	TOP
D1004	E	114	13'-1"	6418	8	11'-7"									FOOTING	DOWEL
D1010	E	114	28'-10"	14145	S	28'-10"									COLUMN	VERTICAL
D411	E	46	11'-10"	364	3	3'-4"	2'-4"								COLUMN	TIES
D412	E	48	15'-1"	484	14	3'-0"	4'-9"	6"							COLUMN	TIES
D413	E	46	4'-0"	123	13	3'-4"									COLUMN	TIES
D414	E	48	3'-4"	107	13	2'-8½"									COLUMN	TIES
D415	E	48	3'-1"	99	13	2'-5"									COLUMN	TIES
D616	E	4	22'-7"	136	S	22'-7"									COLUMN	VERTICAL
D417	E	6	8'-0"	32	S	8'-0"									COLUMN	VERTICAL
D618	E	2 series of 5	19'-1" to 3'-10"	172	S	19'-1" to 3'-10" by 3'-9¾"									COLUMN	VERTICAL, BUNDLE& TAG EACH SERIES SEPARATELY
D419	E	2 series of 9	19'-0" to 9'-10"	174	3	5'-8" to 1'-1" by 6⅞"	3'-7"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
D420	E	2	26'-1"	35	3	9'-2½"	3'-7"								COLUMN	TIES
D421	E	23	21'-10"	335	3	7'-4"	3'-4"								CENTER COLUMN	TIES
D422	E	92	4'-0"	246	13	3'-4"									CENTER COLUMN	TIES
D1030	E	7	60'-0"	1807	24	3'-6"	52'-11½"	12.49							CAP	BOTTOM
D1031	E	4	57'-9"	994	4	1'-9½"	54'-10"								CAP	BOTTOM
D1132	E	16	24'-10"	2111	4	1'-11½"	21'-8"								CAP	CAPS
D1133	E	8	60'-0"	2550	1										CAP	TOP
D1134	E	8	40'-6"	1722	1										CAP	TOP
D635	E	10	16'-9"	252	1										CAP	BOTTOM @ ENDS
D636	E	92	19'-3"	2660	3	7'-1"	2'-3"								CAP	STIRRUPS
D637	E	4 series of 20	15'-7" to 11'-5"	1625	3	5'-3" to 3'-2" by 1⅜"	2'-3"								CAP	STIRRUPS @ ENDS, BUNDLE & TAG EACH SERIES SEPARATELY
D638	E	4 series of 4	34'-1" to 44'-3"	941	1										CAP	SIDES, BUNDLE & TAG EACH SERIES SEPARATELY
D639	E	4 series of 3	46'-3" to 46'-7"	837	1										CAP	SIDES, BUNDLE & TAG EACH SERIES SEPARATELY
D540	E	10	7'-0"	73	17	2'-0"	3'-2"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
D441	E	11	4'-8"	34	4	8"	3'-7"								CAP	TIES
D450	E	92	7'-7"	466	4	2'-3"	3'-4"								CAP SEAT	VERTICAL GIRDER SEATS
D451	E	16	11'-1"	118	S	11'-1"									CAP SEAT	HORIZ. GIRDER SEATS
D452	E	8	11'-1"	59	S	11'-1"									CAP SEAT	HORIZ. GIRDER SEATS
D453	E	4	11'-11"	32	S	11'-11"									CAP SEAT	HORIZ. GIRDER SEATS
D754	E	126	3'-2"	816	S	3'-2"									CAP SEAT	DIAPHRAGM DOWEL



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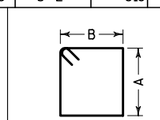

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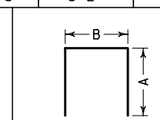

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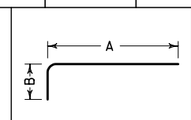

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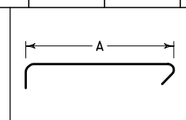

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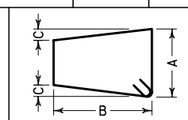

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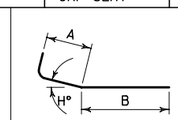

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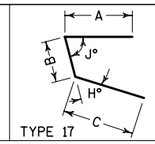

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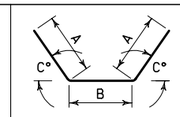


TYPE 24

TOTAL NON-EPOXY REINFORCEMENT WT (LB)	5845
TOTAL EPOXY REINFORCEMENT WT (LB)	39967

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

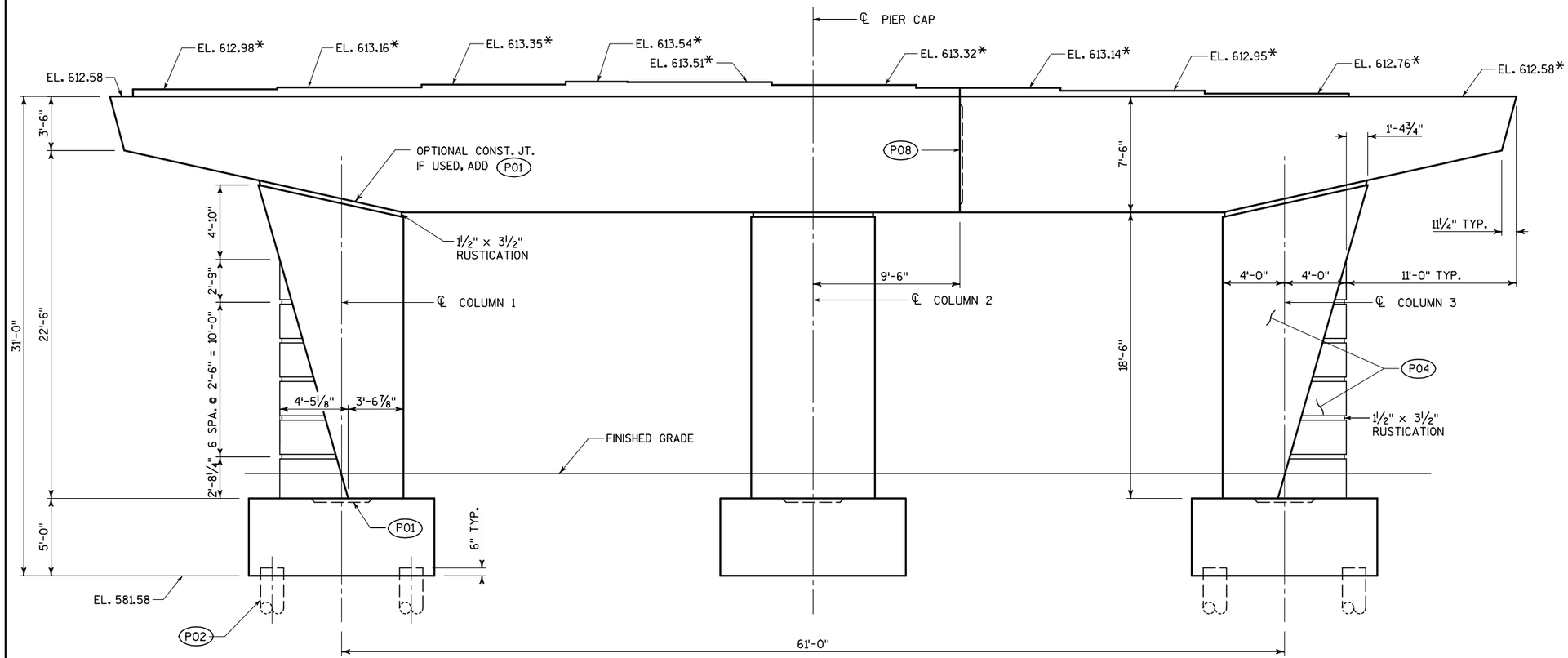
PIER P4-002
REINF. SCHEDULE

SHEET 112 OF 396

2980

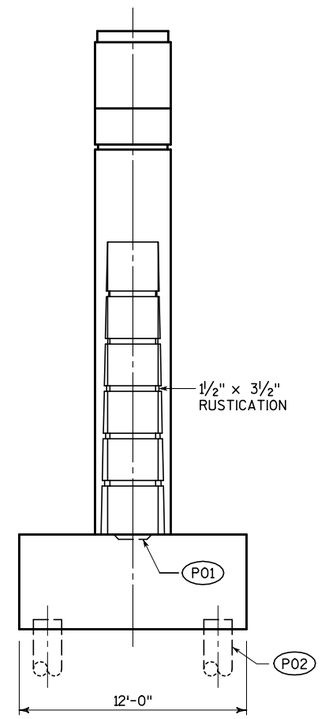
STATE PROJECT NUMBER

1060-05-75



ELEVATION

(LOOKING EAST-SHOWING DIMENSIONS)



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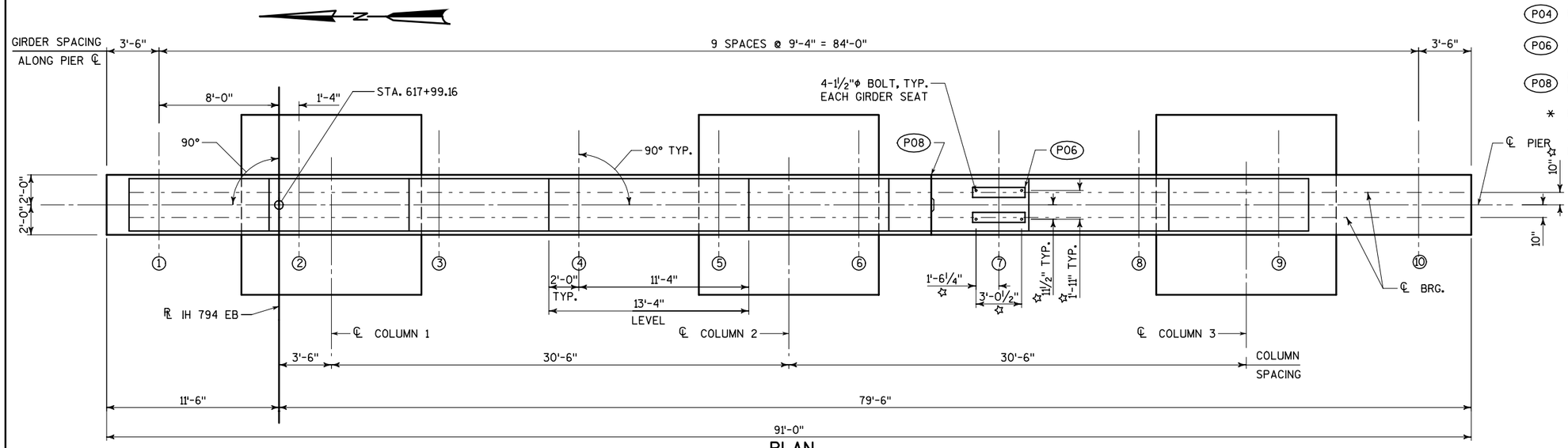


PLAN

NOTES

P01 KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

P02 CIP 16" DIAM. PILING AT 210 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 110'.

P04 FOR CONCRETE STAINING DETAILS, SEE SHEET 383.

P06 1½" THICK MASONRY PLATE, SEE "PRESTRESSED GIRDER BEARINGS" SHEET FOR DETAILS.

P08 KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 2" X 12" X 6'-6"

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

DIMENSIONS ARE GIVEN TO THE ℄ OF ANCHOR BOLTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

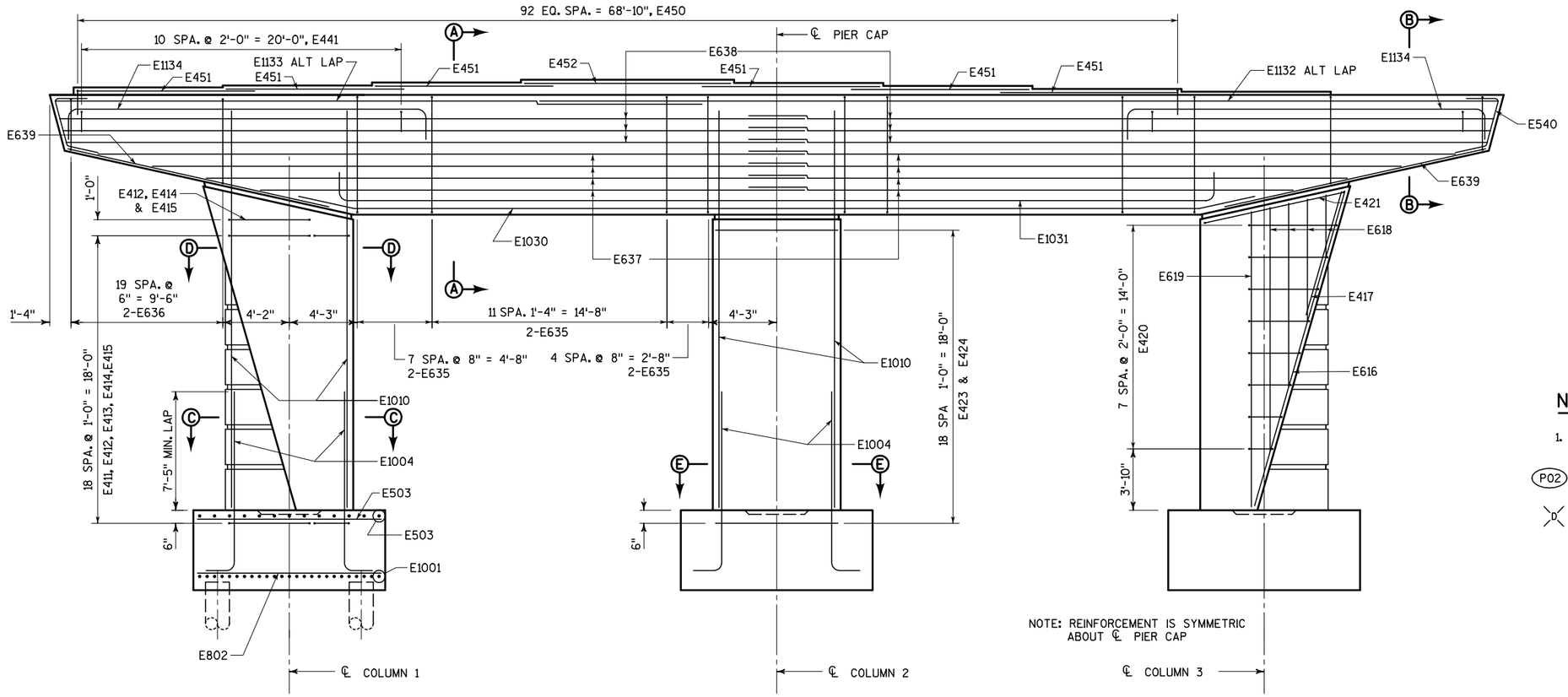
PIER P5-002

SHEET 113 OF 396

2981

8

STATE PROJECT NUMBER
1060-05-75



ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

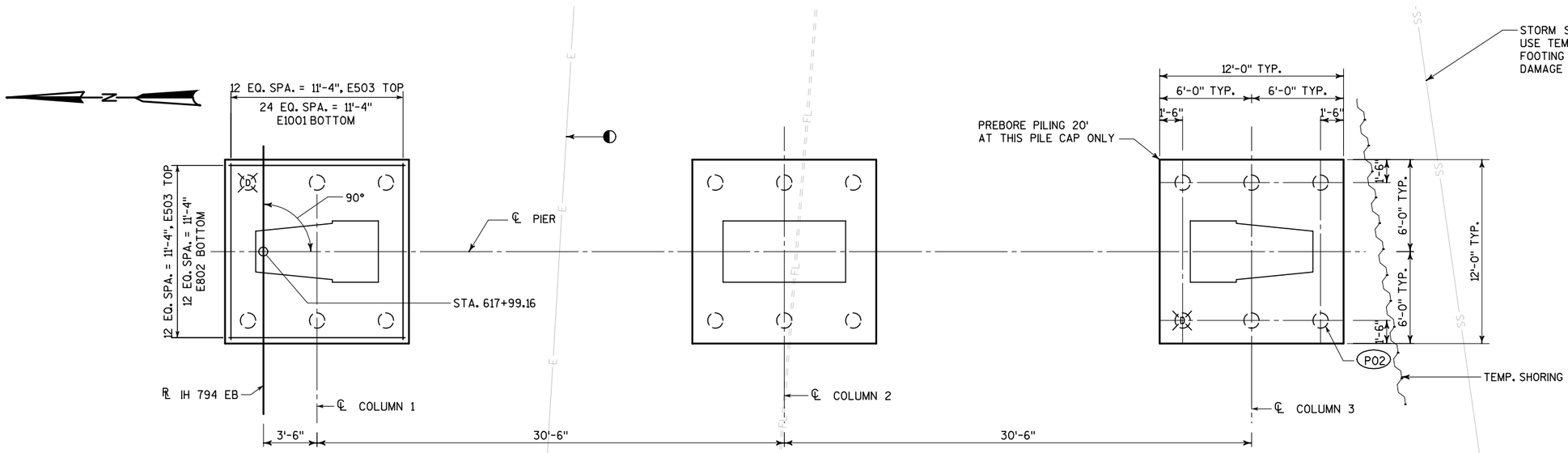
(P02) CIP 16" DIAM. PILING AT 210 TONS ALLOWABLE LOAD. ESTIMATED LENGTH = 110'.

DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

WE ENERGIES ELECTRICAL LINE ABANDONED IN PLACE, REMOVE AS NECESSARY FOR FOOTING CONSTRUCTION.



FOOTING PLAN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P5-002 REINF. LAYOUT

SHEET 114 OF 396

2982

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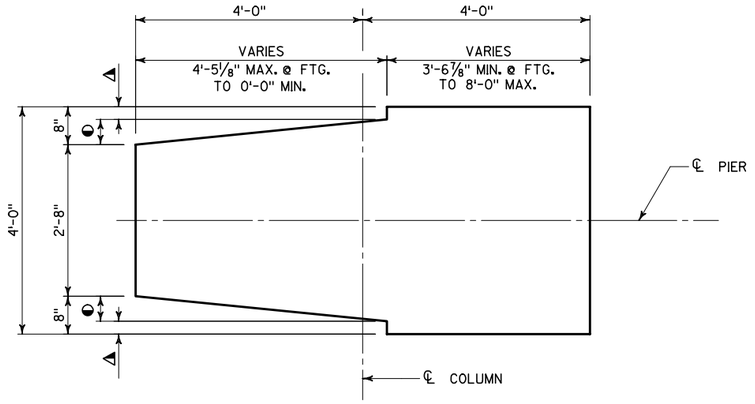
STATE PROJECT NUMBER

1060-05-75

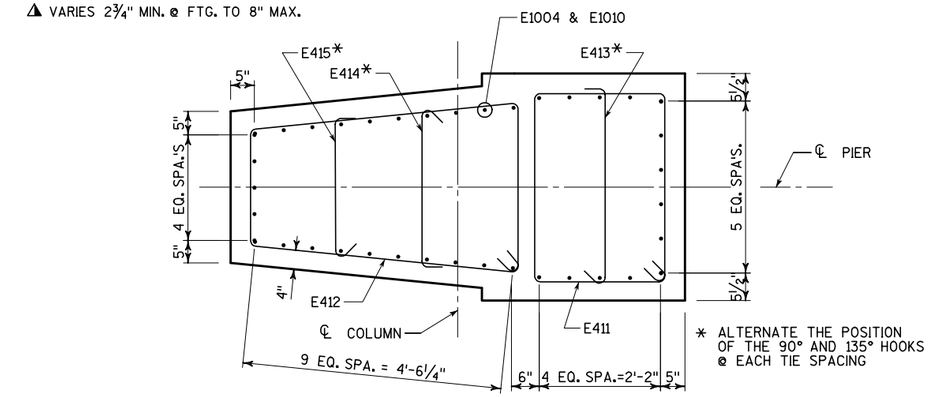


SECTION THRU COLUMN

(SHOWING DIMENSIONS)

◑ VARIES 5¼" MAX. @ FTG. TO 0" MIN.

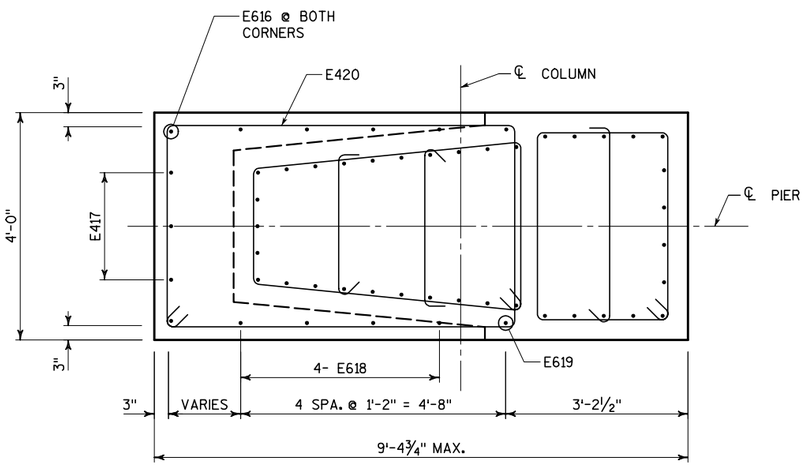
◭ VARIES 2¾" MIN. @ FTG. TO 8" MAX.



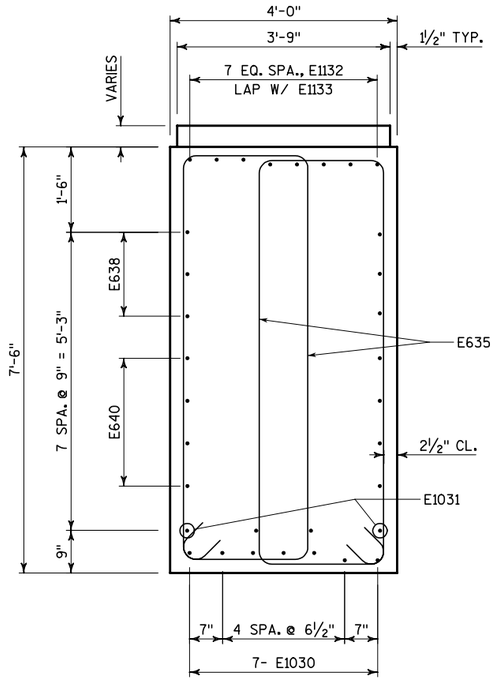
* ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS @ EACH TIE SPACING

SECTION C-C

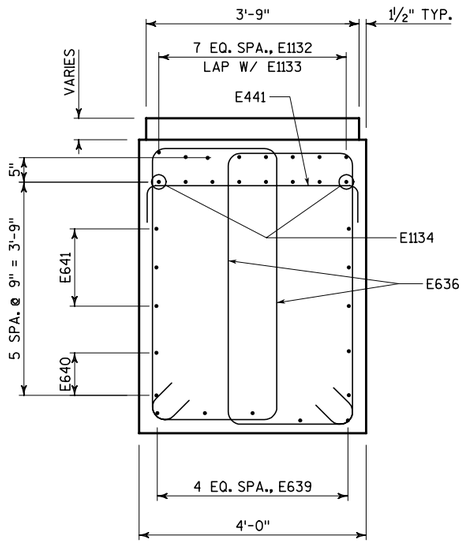
(SHOWING REINFORCEMENT)



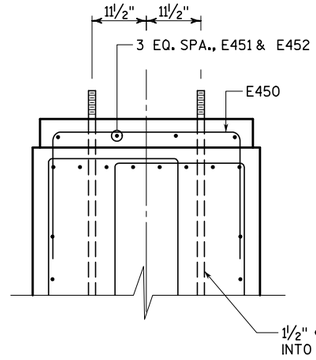
SECTION D-D



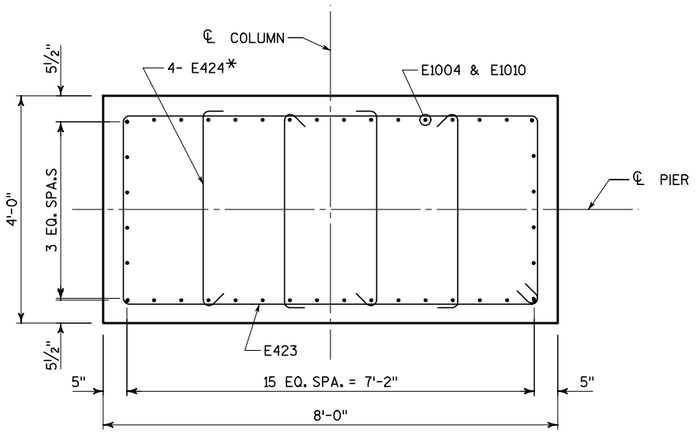
SECTION A-A



SECTION B-B



SECTION THRU GIRDER SEAT



* ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS @ EACH TIE SPACING

SECTION E-E

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P5-002 DETAILS

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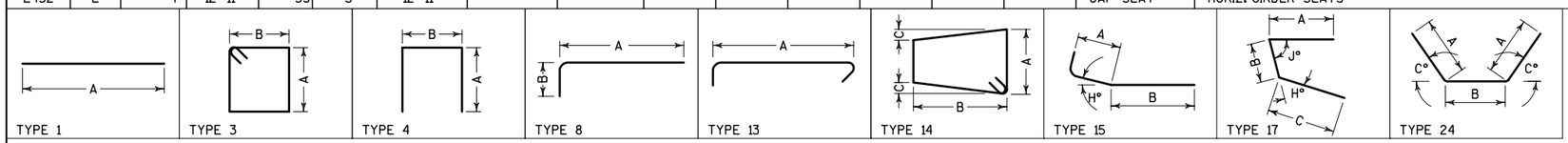
STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
E1001		75	11'-6"	3712	S	11'-6"									FOOTING	BOTTOM
E802		39	11'-6"	1198	S	11'-6"									FOOTING	BOTTOM
E503		78	11'-6"	936	S	11'-6"									FOOTING	TOP
E1004	E	114	13'-1"	6418	8	11'-7"									FOOTING	DOWEL
E1010	E	114	24'-10"	12183	S	24'-10"									COLUMN	VERTICAL
E411	E	38	11'-10"	300	3	3'-4"	2'-4"								COLUMN	TIES
E412	E	40	15'-1"	403	14	3'-0"	4'-9"	6"							COLUMN	TIES
E413	E	38	4'-0"	102	13	3'-4"									COLUMN	TIES
E414	E	40	3'-4"	89	13	2'-8½"									COLUMN	TIES
E415	E	40	3'-1"	82	13	2'-5"									COLUMN	TIES
E616	E	4	20'-6"	123	S	20'-6"									COLUMN	VERTICAL
E417	E	6	8'-0"	32	S	8'-0"									COLUMN	VERTICAL
E618	E	2 series of 4	15'-3" to 3'-10"	115	S	15'-3" to 3'-10" by 3'-9⅝"									COLUMN	VERTICAL, BUNDLE& TAG EACH SERIES SEPARATELY
E619	E	4	18'-6"	111	S	18'-6"									COLUMN	VERTICAL
E420	E	2 series of 8	18'-7" to 10'-7"	156	3	5'-5½" to 1'-5½" by 6⅞"	3'-7"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
E421	E	2	26'-1"	35	3	9'-2½"	3'-7"								COLUMN	TIES
E423	E	19	21'-10"	277	3	7'-4"	3'-4"								CENTER COLUMN	TIES
E424	E	76	4'-0"	203	13	3'-4"									CENTER COLUMN	TIES
E1030	E	7	60'-0"	1807	24	3'-6½"	52'-11"	12.49							CAP	BOTTOM
E1031	E	4	57'-9"	994	4	1'-9½"	54'-10"								CAP	BOTTOM
E1132	E	8	60'-0"	2550	1										CAP	TOP
E1133	E	8	40'-6"	1722	1										CAP	TOP
E1134	E	16	24'-10"	2111	4	1'-11½"	21'-8"								CAP	TOP
E635	E	92	19'-3"	2660	3	7'-1"	2'-3"								CAP	STIRRUPS
E636	E	4 series of 20	15'-7" to 11'-5"	1625	3	5'-3" to 3'-2" by 1⅜"	2'-3"								CAP	STIRRUPS @ ENDS, BUNDLE & TAG EACH SERIES SEPARATELY
E637	E	4 series of 4	34'-1" to 44'-3"	941	1										CAP	SIDES, BUNDLE & TAG EACH SERIES SEPARATELY
E638	E	4 series of 3	46'-3" to 46'-7"	837	1										CAP	SIDES, BUNDLE & TAG EACH SERIES SEPARATELY
E639	E	10	16'-9"	252	1										CAP	BOTTOM @ ENDS
E540	E	10	7'-0"	73	17	2'-0"	3'-2"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
E441	E	11	4'-8"	34	4	8"	3'-7"								CAP	TIES
E450	E	93	7'-7"	471	4	2'-3"	3'-4"								CAP SEAT	VERTICAL GIRDER SEATS
E451	E	24	11'-1"	178	S	11'-1"									CAP SEAT	HORIZ. GIRDER SEATS
E452	E	4	12'-11"	35	S	12'-11"									CAP SEAT	HORIZ. GIRDER SEATS

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.



TOTAL NON-EPOXY REINFORCEMENT WT (LB)	5845
TOTAL EPOXY REINFORCEMENT WT (LB)	36920

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

PIER P5-002
REINF. SCHEDULE

SHEET 116 OF 396
2984

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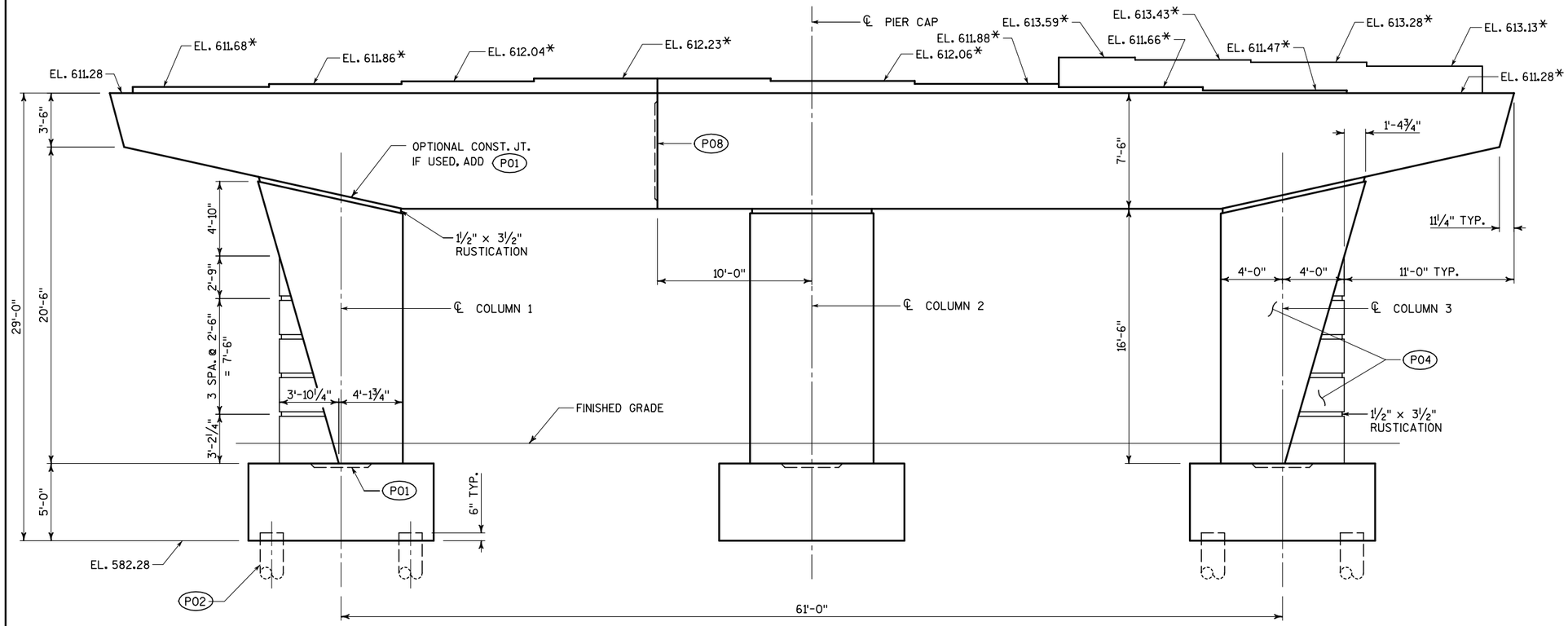
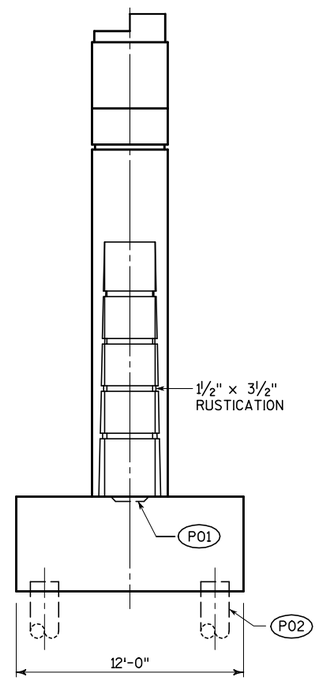
STATE PROJECT NUMBER

1060-05-75

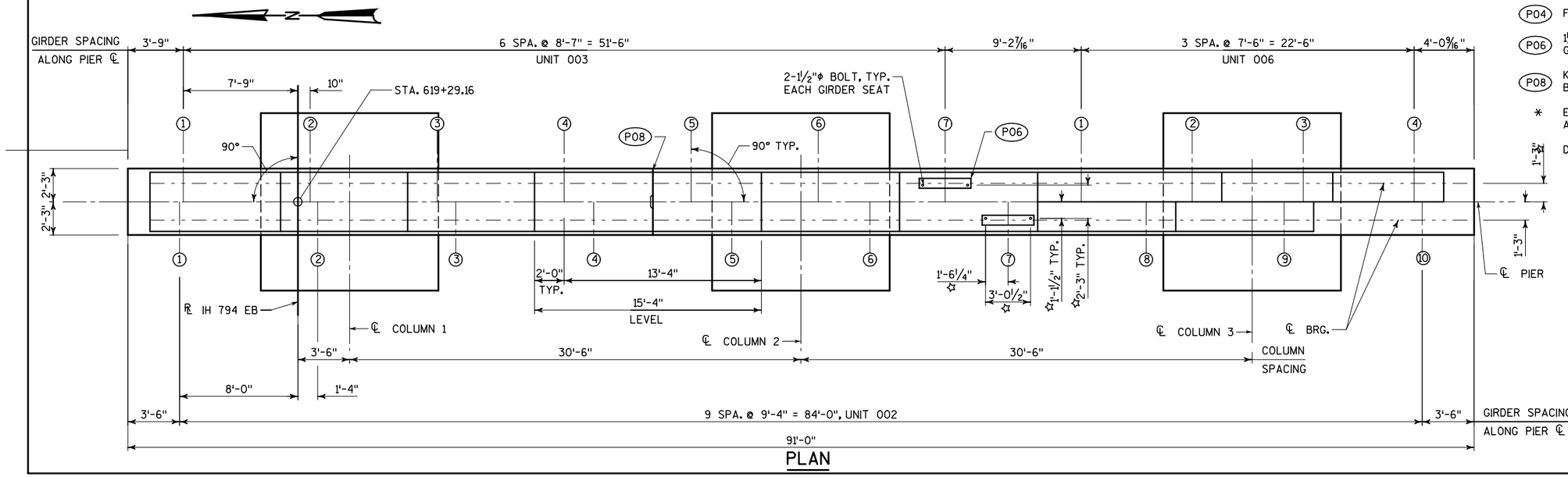


ELEVATION

(LOOKING EAST-SHOWING DIMENSIONS)



END ELEVATION



PLAN

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 215 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 110'.

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 383.

(P06) 1½" THICK MASONRY PLATE, SEE "PRESTRESSED GIRDER BEARINGS" SHEET FOR DETAILS.

(P08) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 2" X 12" X 6'-6"

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

DIMENSIONS ARE GIVEN TO THE ℄ OF ANCHOR BOLTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P6-002

SHEET 117 OF 396

2985

8

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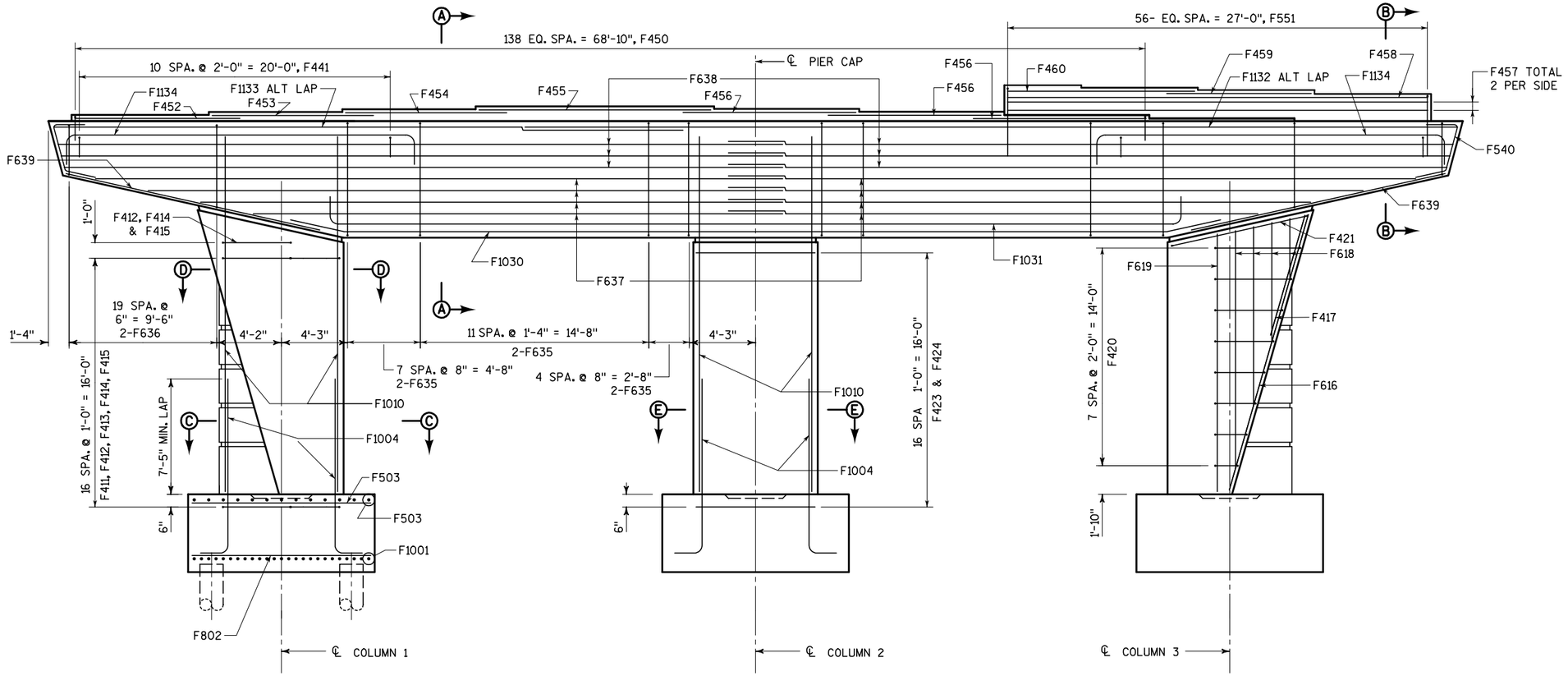
STATE PROJECT NUMBER

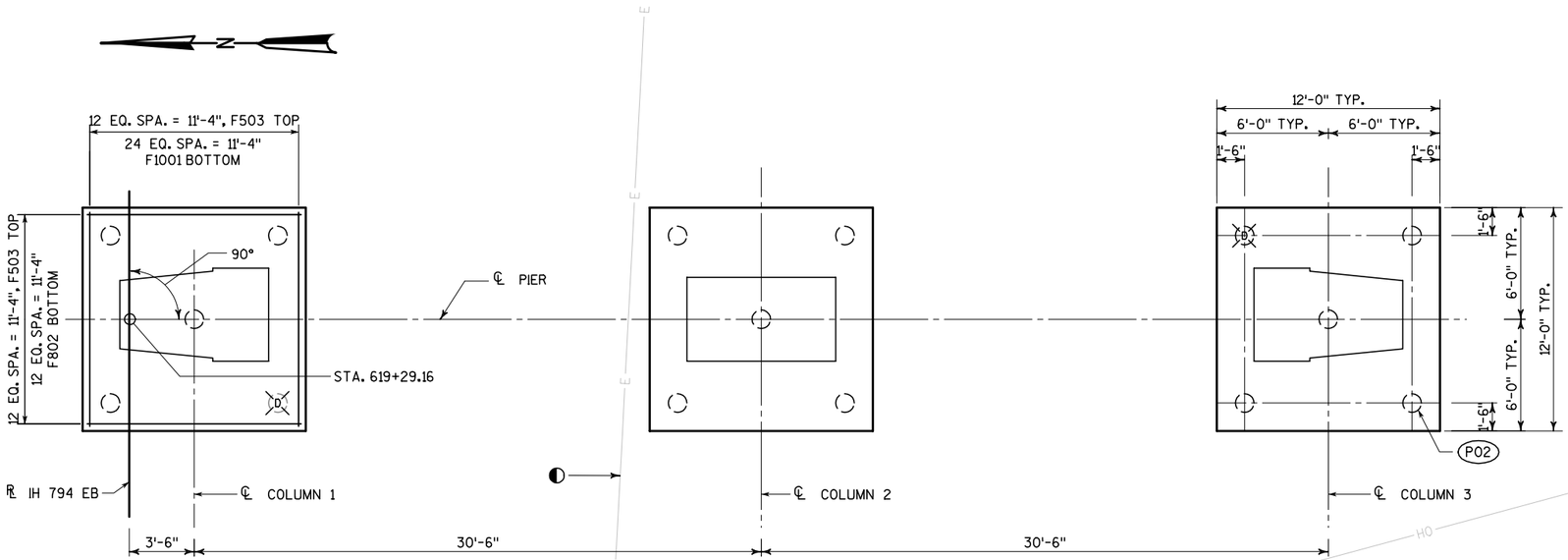
1060-05-75



NOTE: REINFORCEMENT IS SYMMETRIC ABOUT ℄ PIER CAP

ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)



FOOTING PLAN

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 215 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 110'.

(D) DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

◐ WE ENERGIES ELECTRICAL LINE ABANDONED IN PLACE, REMOVE AS NECESSARY FOR FOOTING CONSTRUCTION.

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STATE OF WISCONSIN
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STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P6-002
REINF. LAYOUT

SHEET 118 OF 396

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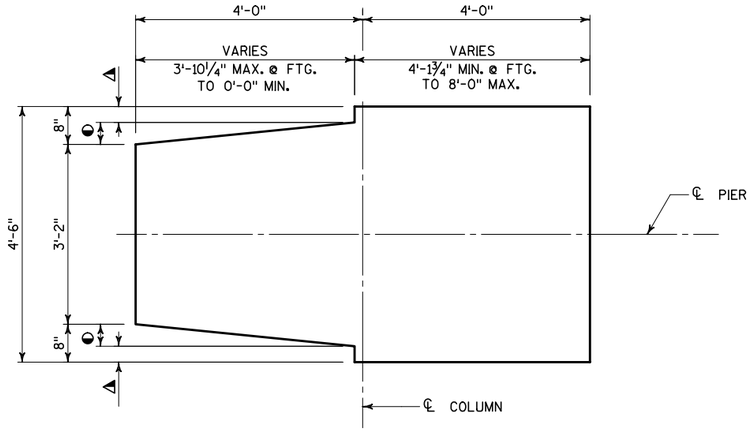
STATE PROJECT NUMBER
1060-05-75

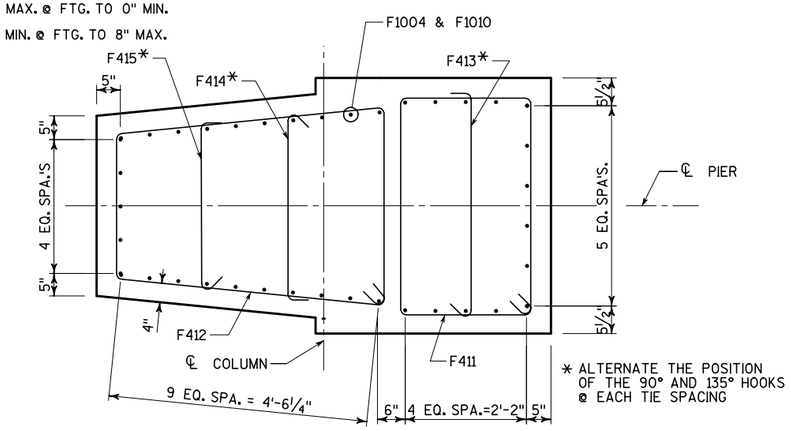


SECTION THRU COLUMN

(SHOWING DIMENSIONS)

◑ VARIES 4⅝" MAX. @ FTG. TO 0" MIN.

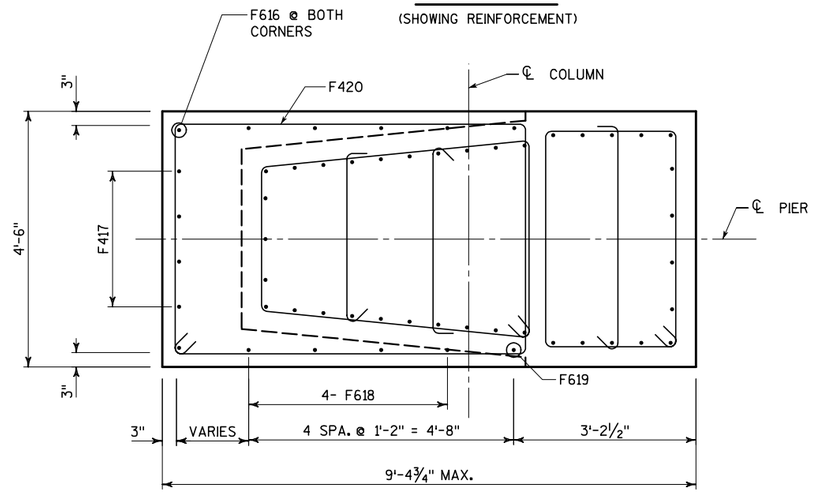
◭ VARIES 3⅜" MIN. @ FTG. TO 8" MAX.



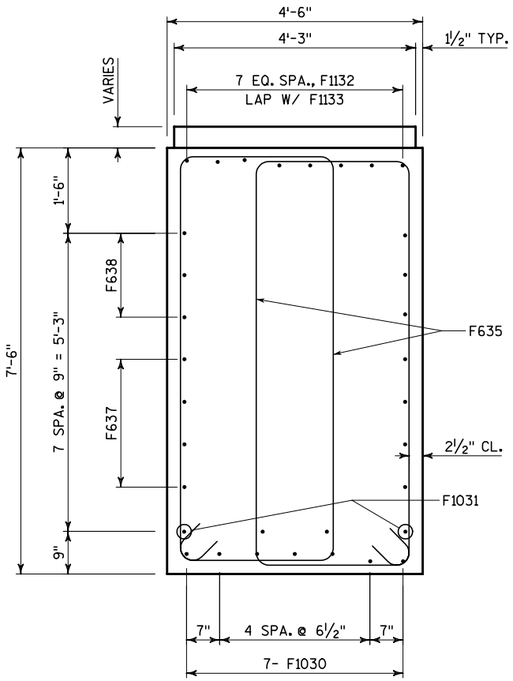
* ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS @ EACH TIE SPACING

SECTION C-C

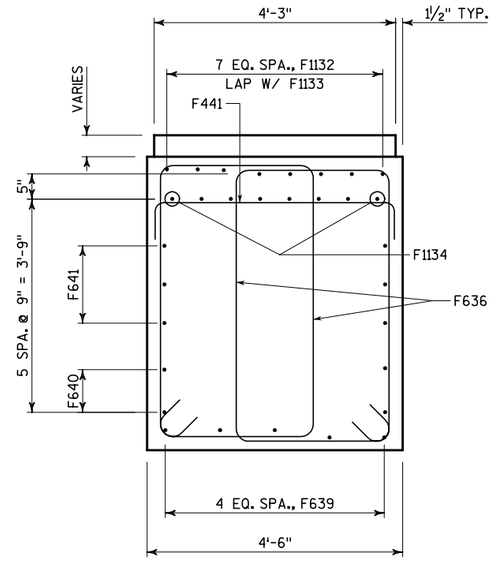
(SHOWING REINFORCEMENT)



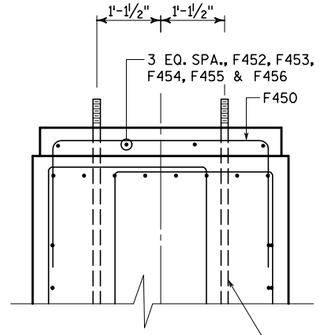
SECTION D-D



SECTION A-A

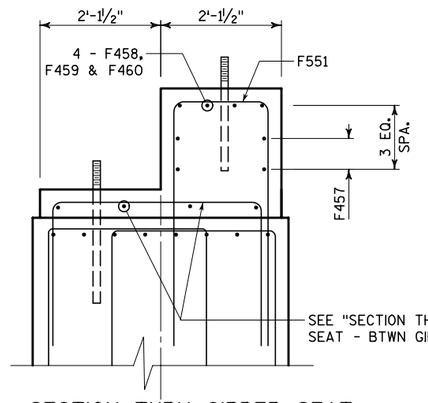


SECTION B-B



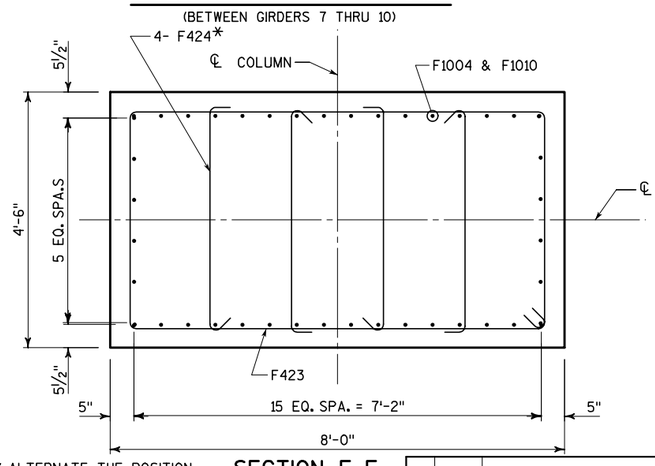
SECTION THRU GIRDER SEAT

(BETWEEN GIRDERS 1 THRU 7)



SECTION THRU GIRDER SEAT

(BETWEEN GIRDERS 7 THRU 10)



* ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS @ EACH TIE SPACING

SECTION E-E

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P6-002 DETAILS

SHEET 119 OF 396

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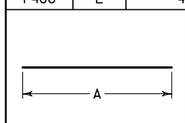
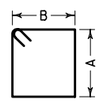
STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
F1001		75	11'-6"	3712	S	11'-6"									FOOTING	BOTTOM
F802		39	11'-6"	1198	S	11'-6"									FOOTING	BOTTOM
F503		78	11'-6"	936	S	11'-6"									FOOTING	TOP
F1004	E	114	13'-1"	6418	8	11'-7"									FOOTING	DOWEL
F1010	E	114	22'-10"	11202	S	22'-10"									COLUMN	VERTICAL
F411	E	34	12'-10"	291	3	3'-10"	2'-4"								COLUMN	TIES
F412	E	36	16'-1"	387	14	3'-6"	4'-9"	6"							COLUMN	TIES
F413	E	34	4'-6"	102	13	3'-10"									COLUMN	TIES
F414	E	36	3'-10"	92	13	3'-2½"									COLUMN	TIES
F415	E	36	3'-7"	86	13	2'-11"									COLUMN	TIES
F616	E	4	18'-5"	111	S	18'-5"									COLUMN	VERTICAL
F417	E	8	8'-0"	43	S	8'-0"									COLUMN	VERTICAL
F618	E	2 series of 4	15'-3" to 3'-10"	115	S	15'-3" to 3'-10" by 3'-9⅝"									COLUMN	VERTICAL, BUNDLE & TAG EACH SERIES SEPARATELY
F619	E	4	16'-7"	100	S	16'-7"									COLUMN	VERTICAL
F420	E	2 series of 8	19'-7" to 11'-7"	167	3	5'-5½" to 1'-5½" by 6⅞"	4'-1"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
F421	E	2	27'-1"	36	3	9'-2½"	4'-1"								COLUMN	TIES
F423	E	17	22'-10"	259	3	7'-4"	3'-10"								CENTER COL.	TIES
F424	E	68	4'-6"	204	13	3'-10"									CENTER COL.	TIES
F1030	E	7	60'-0"	1807	24	3'-6½"	52'-11"	12.49							CAP	BOTTOM
F1031	E	4	57'-9"	994	4	1'-9½"	54'-10"								CAP	BOTTOM
F1132	E	8	60'-0"	2550	1										CAP	TOP
F1133	E	8	40'-6"	1722	1										CAP	TOP
F1134	E	16	24'-10"	2111	4	1'-11½"	21'-8"								CAP	TOP
F635	E	92	20'-3"	2798	3	7'-1"	2'-9"								CAP	STIRRUPS
F636	E	4 series of 20	16'-7" to 12'-5"	1745	3	5'-3" to 3'-2" by 1⅜"	2'-9"								CAP	STIRRUPS @ ENDS, BUNDLE & TAG EACH SERIES SEPARATELY
F637	E	4 series of 4	34'-1" to 44'-3"	941	1										CAP	SIDES, BUNDLE & TAG EACH SERIES SEPARATELY
F638	E	4 series of 3	46'-3" to 46'-7"	837	1										CAP	SIDES, BUNDLE & TAG EACH SERIES SEPARATELY
F639	E	10	16'-9"	252	1										CAP	BOTTOM @ ENDS
F540	E	10	7'-0"	73	17	2'-0"	3'-2"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
F441	E	11	5'-2"	38	4	8"	4'-1"								CAP	TIES
F450	E	139	8'-1"	751	4	2'-3"	3'-10"								CAP SEAT	VERTICAL GIRDER SEATS
F551	E	56	10'-1"	589	4	4'-4"	1'-8½"								CAP SEAT	VERTICAL GIRDER SEATS
F452	E	4	10'-7"	28	S	10'-7"									CAP SEAT	HORIZ. GIRDER SEATS
F453	E	4	10'-4"	28	S	10'-4"									CAP SEAT	HORIZ. GIRDER SEATS
F454	E	4	10'-4"	28	S	10'-4"									CAP SEAT	HORIZ. GIRDER SEATS
F455	E	4	14'-11"	40	S	14'-11"									CAP SEAT	HORIZ. GIRDER SEATS
F456	E	12	11'-1"	89	S	11'-1"									CAP SEAT	HORIZ. GIRDER SEATS
F457	E	4	27'-0"	72	S	27'-0"									CAP SEAT	HORIZ. GIRDER SEATS
F458	E	4	27'-0"	72	S	27'-0"									CAP SEAT	HORIZ. GIRDER SEATS
F459	E	4	9'-3"	25	S	9'-3"									CAP SEAT	HORIZ. GIRDER SEATS
F460	E	4	12'-0"	32	S	12'-0"									CAP SEAT	HORIZ. GIRDER SEATS



TYPE 1



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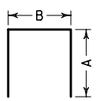

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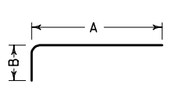

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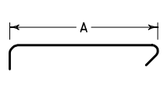
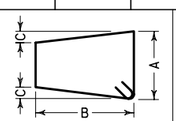


TYPE 13



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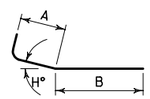

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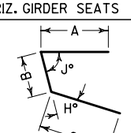

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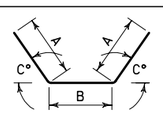

TYPE 24

TOTAL NON-EPOXY REINFORCEMENT WT (LB)	5845
TOTAL EPOXY REINFORCEMENT WT (LB)	37235

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P6-002 REINF. SCHEDULE

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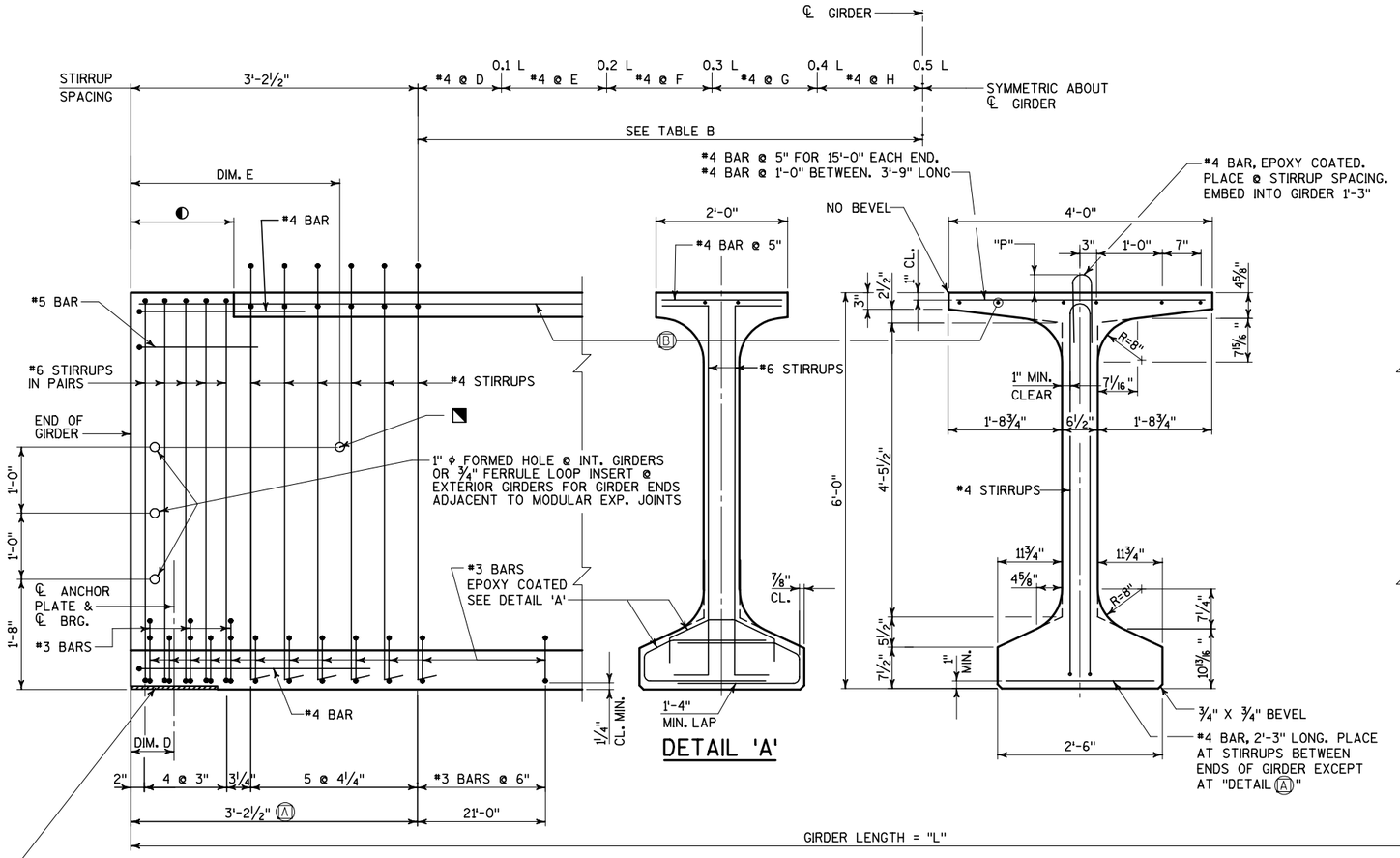


TABLE C - DRAIN INSERT LOCATIONS

SPAN	GIRDER NO.	GIRDER END	PIER	DIM. E
1	1 & 11	UPSTATION	P1-002	2'-5"
3	1 & 10	UPSTATION	P3-002	2'-5"
5	1, 5, 10	UPSTATION	P5-002	2'-5"

STATE PROJECT NUMBER

1060-05-75

NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY FOR BONDING TO THE SLAB, EXCEPT THE OUTSIDE 15" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH. AN APPROVED LIQUID BOND BREAKER SHALL BE APPLIED TO THE TOP SURFACE OF THE GIRDER EXCEPT FOR THE CENTER 18". APPLY NO MORE THAN 7 DAYS PRIOR TO POURING THE DECK.

NOX-CRETE:
SILCOSEAL 2000 F (2 COATS)
MASTER BUILDERS:
FIRST COAT - PRECO FORM-COTE
SECOND COAT - RHEOFINISH 220

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS.

PRESTRESSING STRANDS SHALL BE 0.6" ϕ - 7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 PSI AND SHALL BE FLUSH WITH THE ENDS OF THE GIRDER.

BEND EACH END OF #4 STIRRUPS 4½" AND #6 STIRRUPS 9".

FOR DIAPHRAGM INSERT & CONNECTION DETAILS, SEE "STEEL DIAPHRAGM" SHEET. FOR LOCATION OF INSERTS, SEE "GIRDER FRAMING PLAN" SHEETS.

FOR THREADED INSERT & FORMED HOLE LOCATIONS & DETAILS AT CONCRETE DIAPH'S, SEE "SUPERSTRUCTURE DETAILS" SHEETS.

ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT. IF THE FABRICATOR WANTS TO BUILD A BAR STEEL CAGE BY WELDING LONGITUDINAL REINFORCEMENT TO THE #4 STIRRUPS, 2 OPTIONS ARE AVAILABLE:

1. USE ASTM A706, GRADE 60 REINFORCEMENT AND THE STIRRUP SPACING AS SHOWN ON THE PLANS.
2. USE ASTM A615, GRADE 40 REINFORCEMENT AND A MODIFIED STIRRUP SPACING SUBMITTED TO AND APPROVED BY THE STRUCTURES DEVELOPMENT SECTION.

AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION.

WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ASTM A497.

ENDS OF STRANDS SHALL BE PAINTED WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER AT GIRDER ENDS THAT ARE EXPOSED.

ALL PRESTRESSED GIRDERS SHALL BE 60 DAYS OLD BEFORE THE DECK AND CONCRETE DIAPHRAGMS ARE POURED.

SIDE VIEW & TYP. SECTION IN SPAN

Ⓐ DETAIL TYP. AT EACH END

Ⓑ #6 BARS, FULL LENGTH, MIN. LAP = 3'-2"

◐ TOP FLANGE BLOCK OUT, SEE DETAILS ON SHEET 122

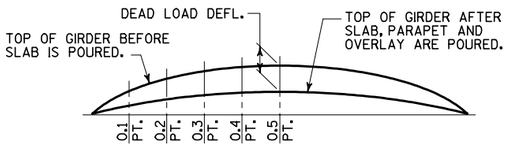
◥ ¾" ϕ ELECTROPLATED FERRULE LOOP INSERT (MEDIUM HIGH CARBON WIRE) OR APPROVED EQUAL. SEE TABLE C, DECK PLAN SHEETS AND PIER DRAIN SHEETS FOR LOCATIONS AND DETAILS OF INSERT.

TABLE A

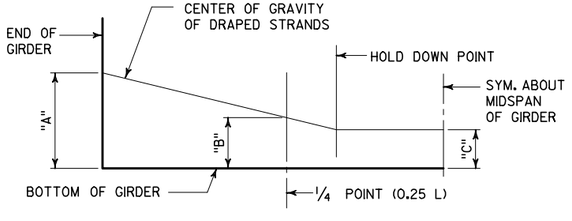
PIER NO.	DIM. D	ANCHOR PLATE DIM'S
P1-002, P5-002	8½"	½ X 1'-5" X 2'-4½"
P10-001, P9-005, P6-002	9"	½ X 1'-6" X 2'-4½"

TABLE B - STIRRUP SPACING

SPAN	MAX. SPACING				
	D	E	F	G	H
1	7"	11"	12"	14"	16"
2	7"	11"	13"	13"	16"
3 & 5	8"	11"	13"	13"	16"
4	8"	11"	13"	13"	17"
6	7"	10"	14"	14"	16



DEAD LOAD DEFLECTION DIAGRAM



DRAPED STRAND PROFILE

GIRDER DATA

SPAN	GIRDER NO.	GIRDER LENGTH "L"	DEAD LOAD DEFL. (IN.) 0.1	0.2	0.3	0.4	0.5	CONC. STRGTH. f'c (p.s.i.)	"P" **	DIA. OF STRAND	DRAPED PATTERN TOTAL NO. OF STRANDS	f'ci (p.s.i.) *	(IN.) "A"	"B" MIN.	"B" MAX.	"C"	UNDRAPED PATTERN TOTAL NO. OF STRANDS	f'ci (p.s.i.) *	TOP FLANGE BLOCK OUT DIM'S Z (IN.)	Y°
1	1 - 9	134'-4½"	⅞"	1½"	2"	2⅜"	2⅜"	8,000	7"	0.6"	42	6,000	62	21½	24½	8	——	——	▲ 12	⊛
1	10 & 11	134'-6"	⅞"	1½"	2"	2⅜"	2⅜"	8,000	7"	0.6"	42	6,000	62	21½	24½	8	——	——	12	⊛
2	ALL	129'-9"	¾"	1¼"	1⅝"	1⅞"	2"	8,000	7"	0.6"	34	6,000	65	20	23	5	——	——	12	⊛
3	ALL	129'-9"	¾"	1¼"	1⅝"	1⅞"	2"	8,000	7"	0.6"	34	6,000	65	20	23	5	——	——	12	90
4 & 5	ALL	134'-9"	⅞"	1½"	2"	2¼"	2⅜"	8,000	VARIES	0.6"	36	6,000	65	20	23	5	——	——	12	90
6	ALL	129'-4½"	¾"	1⅜"	1¾"	2"	2⅛"	8,000	VARIES	0.6"	38	6,000	65	20	23	5	——	——	▲ 12	90

▲ BLOCK OUT DIM. Z ADJACENT TO MODULAR JOINTS SHALL BE 1'-11"

⊛ SEE NEXT SHEET FOR GIRDER BLOCK OUT DATA.

* MINIMUM CYLINDER STRENGTH OF CONCRETE AT TIME OF TRANSFER OF PRESTRESS FORCE.

** FOR STIRRUP EXTENSION, SEE DETAIL ON 72W" PRESTRESSED GIRDER DETAILS 2.

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC. 2004 | DRAWN BY RWN | PLANS CK'D. KES

72W" PRESTRESSED GIRDER DETAILS 1

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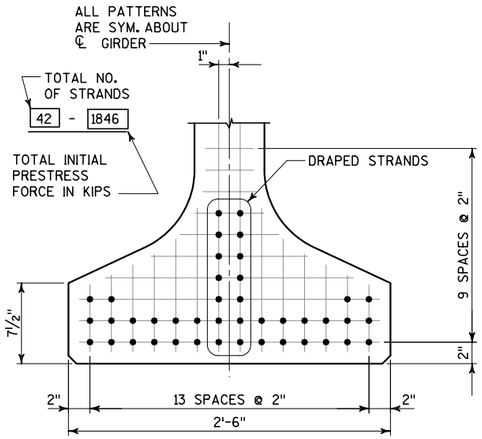
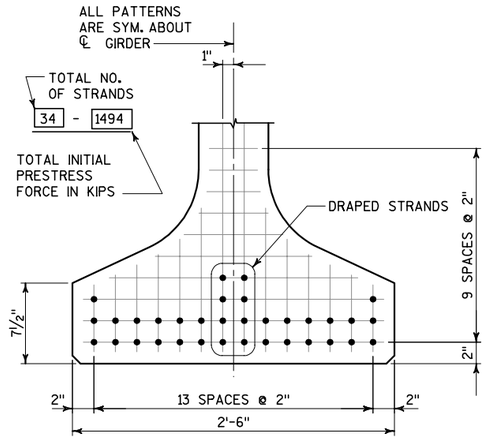
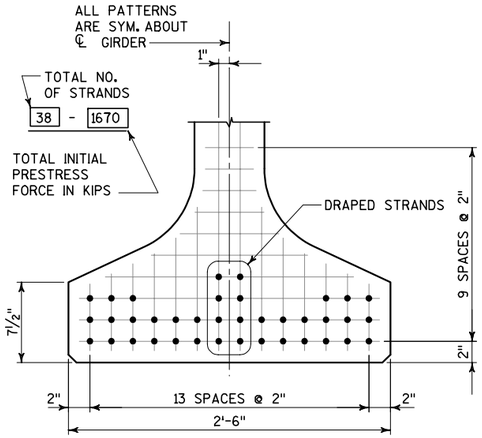


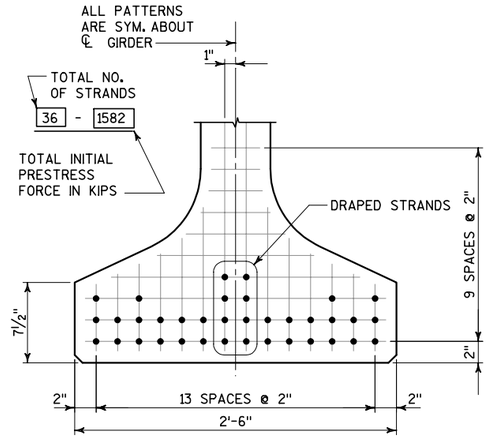
TYP. STRAND PATTERN SPAN 1



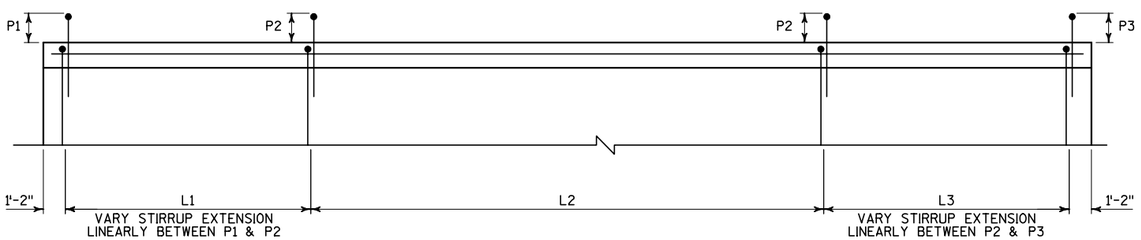
TYP. STRAND PATTERN SPAN 2 & 3



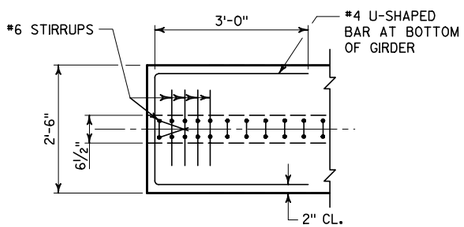
TYP. STRAND PATTERN SPAN 6



TYP. STRAND PATTERN SPAN 4 & 5



SPAN	GIRDERS	GIRDER LENGTH	L1	L2	L3	P1	P2	P3
4	1-9	134'-4½"	94'-4½"	27'-0"	13'-0"	7"	8"	9"
4	10	134'-6"	94'-6"	27'-0"	13'-0"	7"	8"	9"
5	ALL	134'-9"	27'-0"	93'-9"	14'-0"	8"	7"	8"
6	ALL	129'-4½"	12'-0	91'-4½"	26'-0"	8"	7"	8"

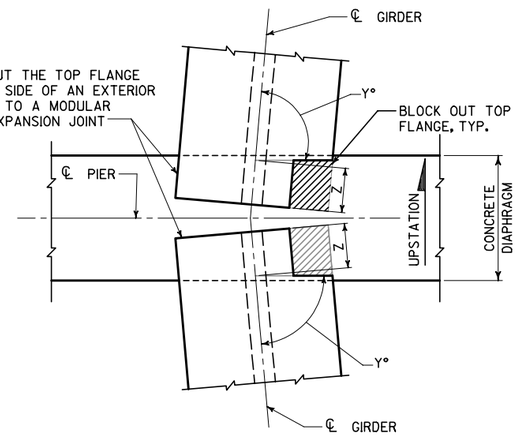


BOTTOM FLANGE AT GIRDER ENDS

BLOCK OUT DATA ⊛

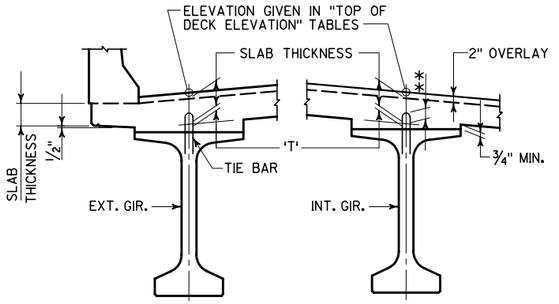
SPAN	GIRDER NO.	TOP FLANGE BLOCK OUT DIM'S		
		GIRDER END	Z (IN.)	Y
1	1 - 8	DOWNSTATION	23	90°0'0"
		UPSTATION	12	90°0'0"
1	9	DOWNSTATION	23	91°11'52.8"
		UPSTATION	12	88°48'6.5"
1	10, 11	DOWNSTATION	23	92°23'14.3"
		UPSTATION	12	87°36'45.0"
2	1 - 8	DOWNSTATION	12	90°0'0"
		UPSTATION	12	90°0'0"
2	9	DOWNSTATION	12	90°0'0"
		UPSTATION	12	90°0'0"
2	10, 11	DOWNSTATION	12	91°14'43.3"
		UPSTATION	12	88°45'16.7"

DO NOT BLOCK OUT THE TOP FLANGE ON THE EXTERIOR SIDE OF AN EXTERIOR GIRDER ADJACENT TO A MODULAR OR STRIP SEAL EXPANSION JOINT



TOP FLANGE BLOCKOUT DETAIL @ EXTERIOR GIRDERS

(SEE BLOCK OUT DATA TABLE ON THIS SHEET)



SLAB HAUNCH DETAIL

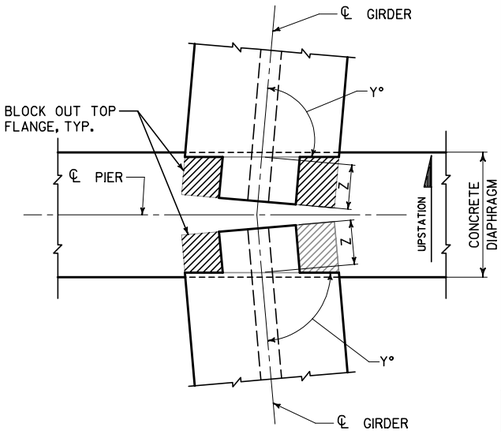
IF ¾" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR. THE PLAN SLAB THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN ½" OR,

** IF 3" MINIMUM DECK EMBEDMENT OF THE TIE BAR CANNOT BE OBTAINED.

TO DETERMINE 'T', ELEV. OF TOP OF GIRDERS AT ℄ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

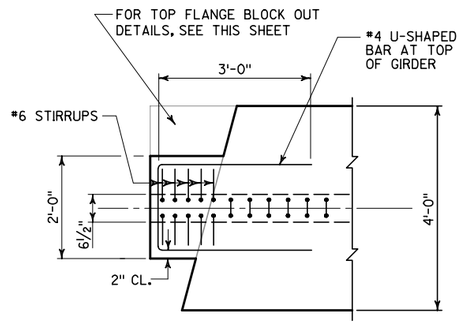
TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF GIRDER ELEVATION
+ DEAD LOAD DEFLECTION
- SLAB THICKNESS

= HAUNCH HEIGHT 'T'



TOP FLANGE BLOCKOUT DETAIL @ INTERIOR GIRDERS

(SEE BLOCK OUT DATA TABLE ON THIS SHEET)



TOP FLANGE AT GIRDER ENDS

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004		

72W" PRESTRESSED GIRDER DETAILS 2

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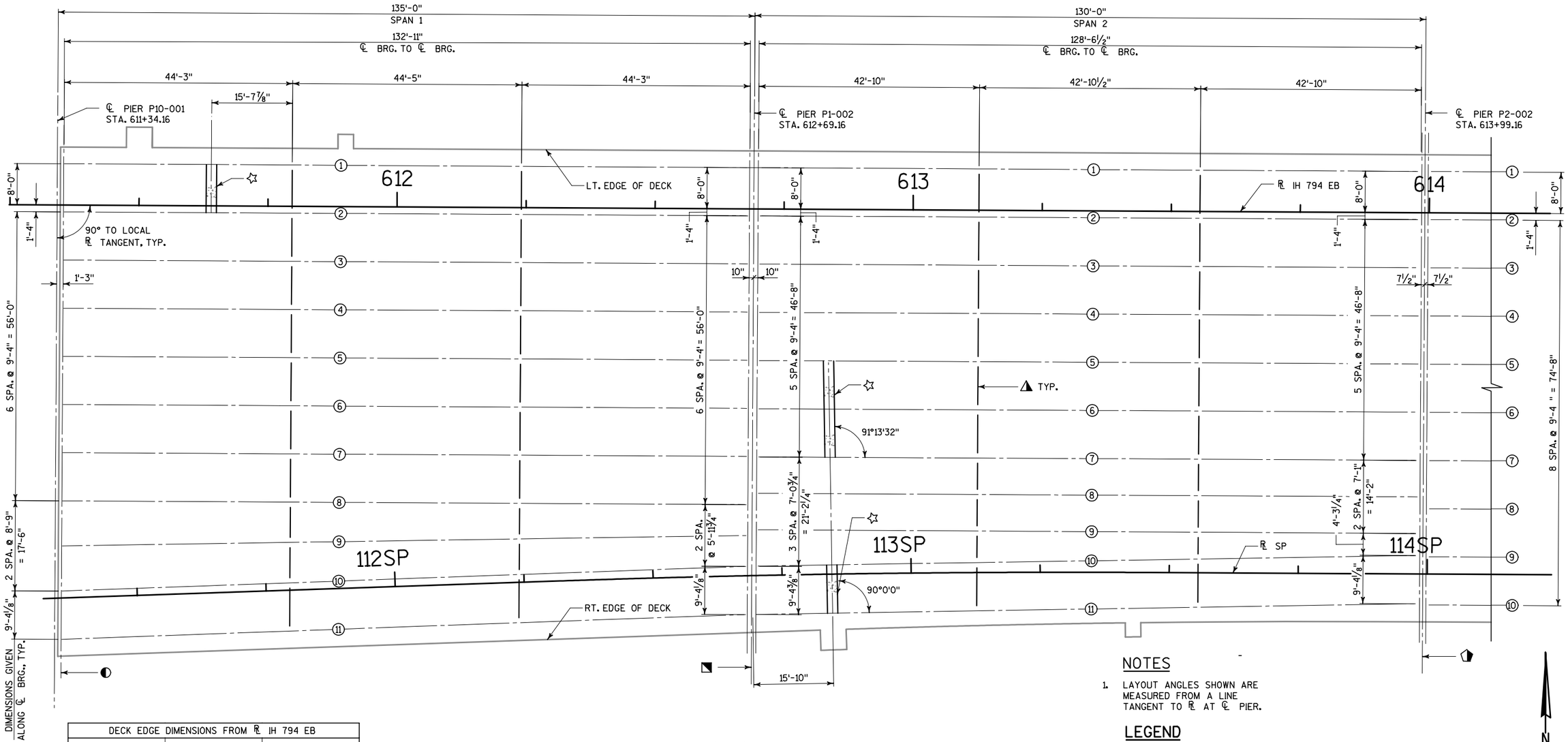

DECK EDGE DIMENSIONS FROM ℞ IH 794 EB		
STATION	LEFT EDGE	RIGHT EDGE
611+34.16	11'-3"	87'-5¼"
611+50.00	11'-3"	86'-10"
611+75.00	11'-3"	85'-10"
612+00.00	11'-3"	84'-10"
612+25.00	11'-3"	83'-10"
612+50.00	11'-3"	82'-10"
612+69.16	11'-3"	82'-0¾"
612+75.00	11'-3"	81'-10"
613+00.00	11'-3"	80'-10½"
613+25.00	11'-3"	80'-1¾"
613+50.00	11'-3"	79'-7½"
613+75.00	11'-3"	79'-4"
613+99.16	11'-3"	79'-3"
614+00.00	11'-3"	79'-3"

GIRDER FRAMING PLAN

NOTES

1. LAYOUT ANGLES SHOWN ARE MEASURED FROM A LINE TANGENT TO ℞ AT ℄ PIER.

LEGEND

- ☆ CONCRETE DIAPHRAGM, TYP. AT SIGN BASE LOCATIONS. SEE SHT. 135 FOR DETAILS.
- ◭ INTERMEDIATE STEEL DIAPHRAGM, TYP. DIAPHRAGMS ARE PARALLEL TO ℄ PIER UNLESS OTHERWISE NOTED. SEE SHT. 354 FOR DETAILS
- ◥ ℄ EXPANSION PIER DIAPHRAGM, SEE SHT. 132 FOR DETAILS
- ◐ ℄ MODULAR JT. EXPANSION PIER DIAPHRAGM, SEE SHT. 134 FOR DETAILS
- ◢ ℄ FIXED PIER DIAPHRAGM, SEE SHT. 132 FOR DETAILS
- * DIMENSIONS GIVEN ALONG ℄ BRG.

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STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	RWN	PLANS CK'D.	KES

GIRDER FRAMING PLAN 1

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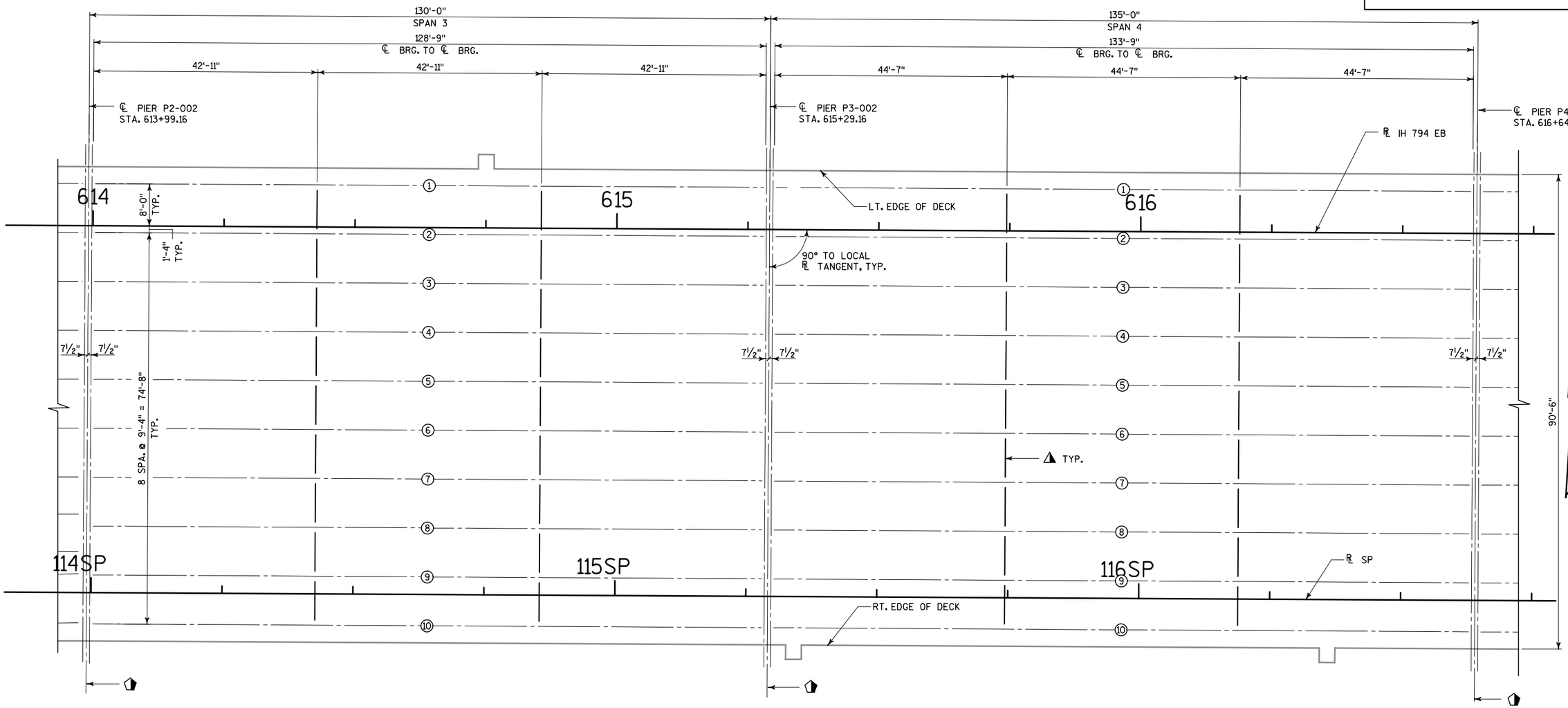
STATE PROJECT NUMBER
1060-05-75



DECK EDGE DIMENSIONS FROM ℄ IH-794 EB		
STATION	LEFT EDGE	RIGHT EDGE
613+99.16	11'-3"	79'-3"
614+00.00	11'-3"	79'-3"
614+25.00	11'-3"	79'-3"
614+50.00	11'-3"	79'-3"
614+75.00	11'-3"	79'-3"
615+00.00	11'-3"	79'-3"
615+25.00	11'-3"	79'-3"
615+29.16	11'-3"	79'-3"
615+50.00	11'-3"	79'-3"
615+75.00	11'-3"	79'-3"
616+00.00	11'-3"	79'-3"
616+25.00	11'-3"	79'-3"
616+50.00	11'-3"	79'-3"
616+64.16	11'-3"	79'-3"

GIRDER FRAMING PLAN

NOTES

1. LAYOUT ANGLES SHOWN ARE MEASURED FROM A LINE TANGENT TO ℄ AT ℄ PIER.

LEGEND

△ INTERMEDIATE STEEL DIAPHRAGM, TYP. DIAPHRAGMS ARE PARALLEL TO ℄ PIER UNLESS OTHERWISE NOTED. SEE SHT. 354 FOR DETAILS

⬟ ℄ FIXED PIER DIAPHRAGM, SEE SHT. 132 FOR DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
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STRUCTURE B-40-1312 (002)

CONST. SPEC. 2004	DRAWN BY RWN	PLANS CK'D. KES

GIRDER FRAMING PLAN 2

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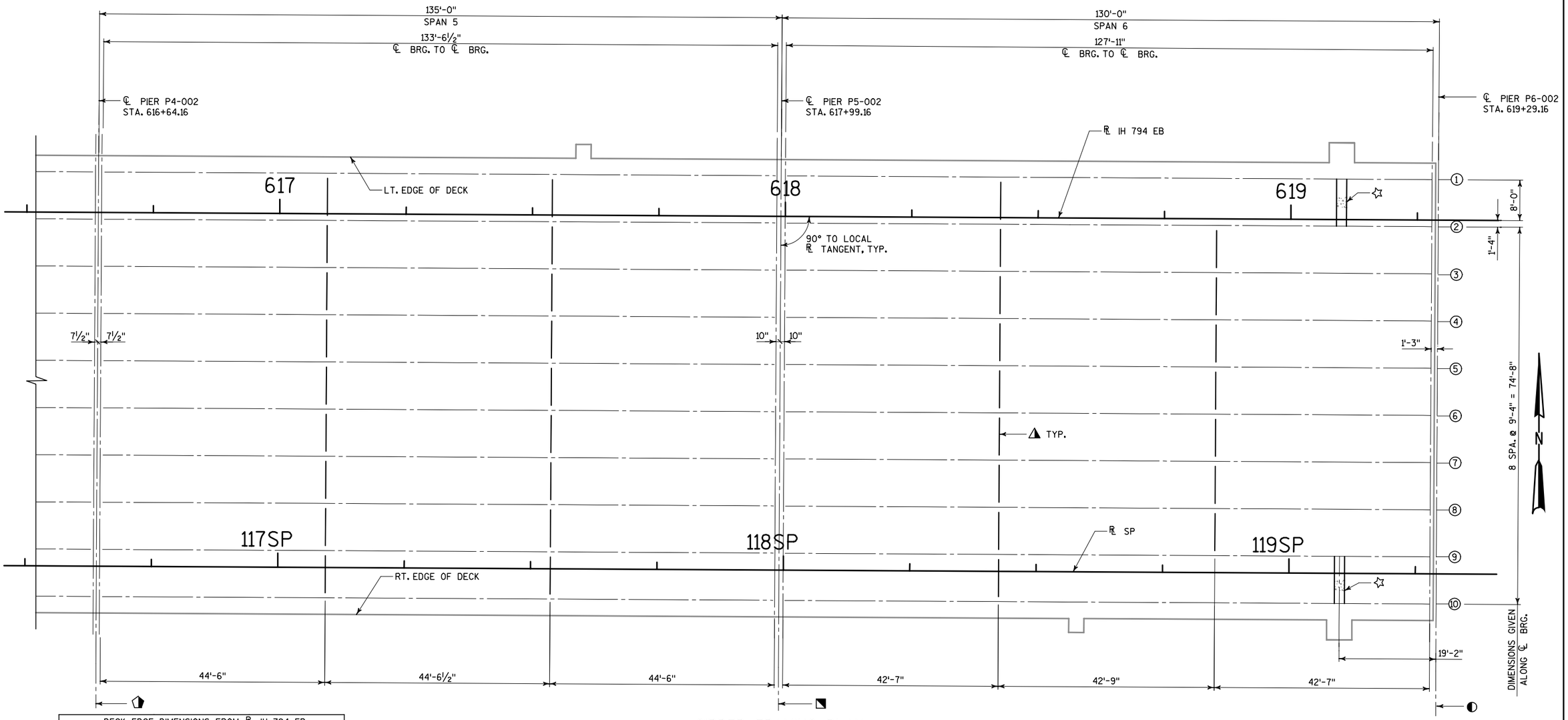
STATE PROJECT NUMBER
1060-05-75



GIRDER FRAMING PLAN

DECK EDGE DIMENSIONS FROM ℞ IH-794 EB		
STATION	LEFT EDGE	RIGHT EDGE
616+64.16	11'-3"	79'-3"
616+75.00	11'-3"	79'-3"
617+00.00	11'-3"	79'-3"
617+25.00	11'-3"	79'-3"
617+50.00	11'-3"	79'-3"
617+75.00	11'-3"	79'-3"
617+99.16	11'-3"	79'-3"
618+00.00	11'-3"	79'-3"
618+25.00	11'-3"	79'-3"
618+50.00	11'-3"	79'-3"
618+75.00	11'-3"	79'-3"
619+00.00	11'-3"	79'-3"
619+25.00	11'-3"	79'-3"
619+29.16	11'-3"	79'-3"

NOTES

1. LAYOUT ANGLES SHOWN ARE MEASURED FROM A LINE TANGENT TO ℞ AT ℄ PIER.

LEGEND

- ☆ CONCRETE DIAPHRAGM, TYP. AT SIGN BASE LOCATIONS. SEE SHT. 135 FOR DETAILS.
- ◭ INTERMEDIATE STEEL DIAPHRAGM, TYP. DIAPHRAGMS ARE PARALLEL TO ℄ PIER UNLESS OTHERWISE NOTED. SEE SHT. 354 FOR DETAILS
- ◥ ℄ EXPANSION PIER DIAPHRAGM, SEE SHT. 132 FOR DETAILS
- ◐ ℄ MODULAR JT. EXPANSION PIER DIAPHRAGM, SEE SHT. 134 FOR DETAILS
- ◢ ℄ FIXED PIER DIAPHRAGM, SEE SHT. 132 FOR DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	RWN	KES

GIRDER FRAMING PLAN 3

SHEET 125 OF 396

2993

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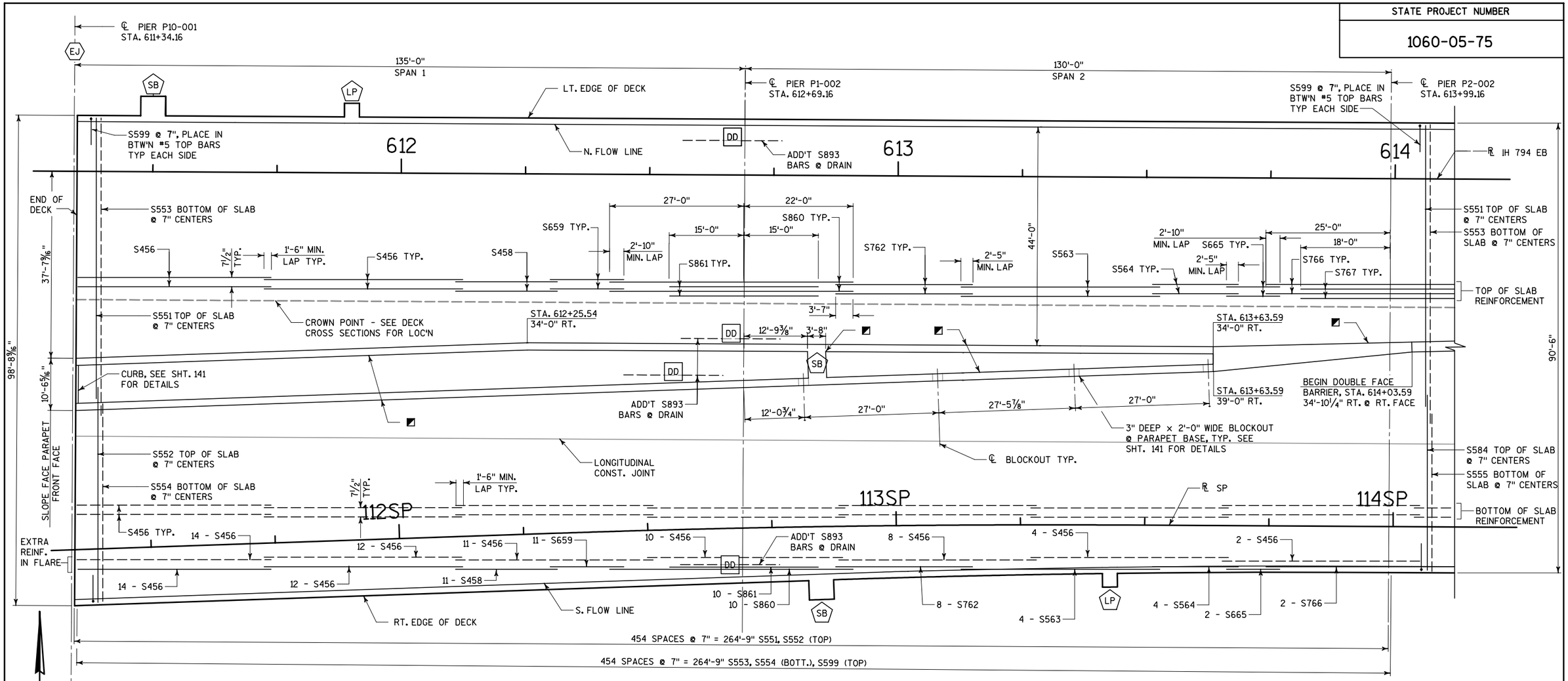
STATE PROJECT NUMBER
1060-05-75



◩ DUE TO TRAFFIC STAGING, DO NOT PLACE GORE BARRIER AND SIGN BASE ABOVE THE DECK UNTIL WESTBOUND TRAFFIC HAS BEEN SWITCHED TO IH 794 WB (B-40-1412).

DECK PLAN

LEGEND

EJ — EXPANSION JOINT LOCATION.
LP — LIGHT POLE MOUNTING LOCATION.*
DD — DECK DRAIN LOCATION.*
SB — SIGN BRIDGE MOUNTING LOCATION.*

DECK FEATURE SUMMARY			
STATION	FEATURE	SIDE	DETAIL SHEETS
611+34.16	EXPANSION JOINT		365-368
611+50.00	SIGN BRIDGE	LEFT	379-380
611+90.00	LIGHT POLE	LEFT	375-376
612+55.11	DECK DRAIN - TYPE A	MEDIAN	369-370
612+66.62	DECK DRAIN - TYPE B	LEFT	371-372
612+66.62	DECK DRAIN - TYPE A	MEDIAN	369-370
612+66.62	DECK DRAIN - TYPE B	RIGHT	371-372
612+85.00	SIGN BRIDGE	RIGHT	379-380
613+43.00	LIGHT POLE	RIGHT	375-376

TOP OF DECK ELEVATIONS (GIVEN @ TOP OF OVERLAY)

	℄ PIER P10-001	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P1-002	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P2-002
N. FLOW LINE	636.16	635.83	635.50	635.17	634.84	634.51	634.18	633.85	633.52	633.19	632.86	632.54	632.22	631.90	631.58	631.27	630.95	630.63	630.31	629.99	629.67
GIRDER 1	636.17	635.85	635.52	635.20	634.87	634.55	634.22	633.90	633.57	633.25	632.87	632.56	632.24	631.93	631.62	631.31	630.99	630.68	630.37	630.06	629.69
GIRDER 2	636.36	636.03	635.71	635.38	635.06	634.73	634.41	634.09	633.76	633.44	633.06	632.74	632.43	632.12	631.80	631.49	631.18	630.87	630.55	630.24	629.87
GIRDER 3	636.54	636.22	635.89	635.57	635.25	634.92	634.60	634.27	633.95	633.62	633.24	632.93	632.62	632.30	631.99	631.68	631.37	631.05	630.74	630.43	630.06
GIRDER 4	636.73	636.41	636.08	635.76	635.43	635.11	634.78	634.46	634.13	633.81	633.43	633.12	632.80	632.49	632.18	631.87	631.55	631.24	630.93	630.62	630.25
CROWN	636.84	636.51	636.18	635.85	635.52	635.19	634.86	634.53	634.20	633.87	633.54	633.22	632.90	632.58	632.26	631.95	631.63	631.31	630.99	630.67	630.35
GIRDER 5	636.70	636.38	636.05	635.73	635.41	635.08	634.76	634.43	634.11	633.78	633.40	633.09	632.78	632.46	632.15	631.84	631.53	631.21	630.90	630.59	630.22
GIRDER 6	636.52	636.19	635.87	635.54	635.22	634.89	634.57	634.25	633.92	633.60	633.21	632.90	632.59	632.28	631.96	631.65	631.34	631.03	630.71	630.40	630.03
GIRDER 7	636.33	636.01	635.68	635.36	635.03	634.71	634.38	634.06	633.73	633.41	633.03	632.72	632.40	632.09	631.78	631.47	631.15	630.84	630.53	630.22	629.85
GIRDER 8	636.14	635.82	635.49	635.17	634.85	634.52	634.20	633.87	633.55	633.22	632.89	632.57	632.26	631.95	631.64	631.32	631.01	630.70	630.39	630.07	629.66
GIRDER 9	635.97	635.65	635.33	635.01	634.69	634.37	634.05	633.74	633.42	633.10	632.75	632.43	632.12	631.81	631.50	631.18	630.87	630.56	630.24	629.93	629.47
GIRDER 10	635.79	635.48	635.17	634.85	634.54	634.23	633.91	633.60	633.29	632.97	632.60	632.30	631.99	631.68	631.38	631.07	630.76	630.46	630.15	629.84	629.29
GIRDER 11	635.61	635.29	634.98	634.67	634.35	634.04	633.73	633.41	633.10	632.79	632.42	632.11	631.80	631.50	631.19	630.88	630.58	630.27	629.96	629.65	629.32
S. FLOW LINE	635.60	635.28	634.96	634.64	634.32	634.00	633.68	633.36	633.04	632.72	632.40	632.09	631.78	631.47	631.16	630.85	630.54	630.22	629.91	629.59	629.27

* SEE DETAIL SHEETS FOR ADDITIONAL DECK REINFORCEMENT REQUIRED IN THIS AREA.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	RWN	PLANS CK'D.	KES

DECK PLAN / REINFORCEMENT 1

SHEET 126 OF 396
2994

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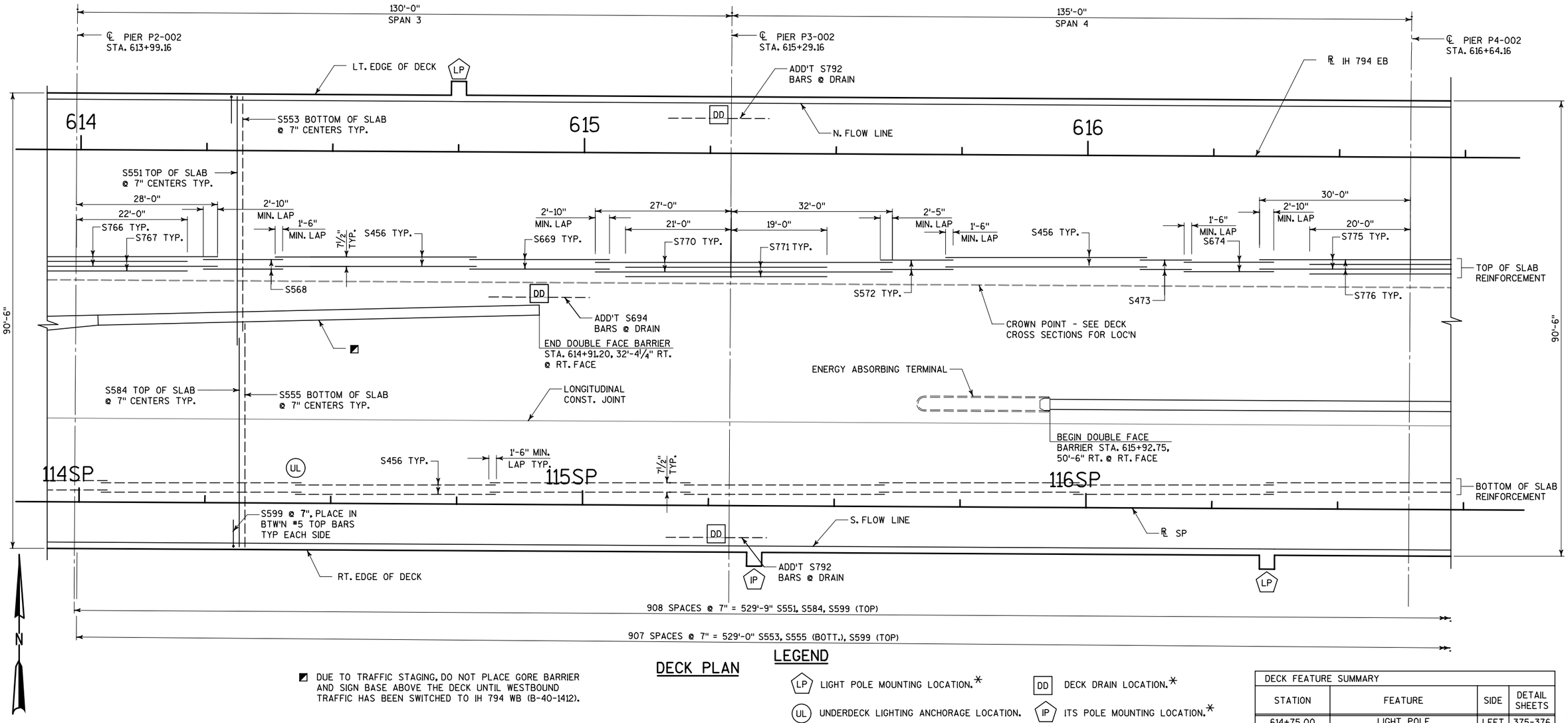
STATE PROJECT NUMBER

1060-05-75



DECK PLAN

LEGEND

- (LP) LIGHT POLE MOUNTING LOCATION.*
- (DD) DECK DRAIN LOCATION.*
- (UL) UNDERDECK LIGHTING ANCHORAGE LOCATION.
- (IP) ITS POLE MOUNTING LOCATION.*

◩ DUE TO TRAFFIC STAGING, DO NOT PLACE GORE BARRIER AND SIGN BASE ABOVE THE DECK UNTIL WESTBOUND TRAFFIC HAS BEEN SWITCHED TO IH 794 WB (B-40-1412).

DECK FEATURE SUMMARY			
STATION	FEATURE	SIDE	DETAIL SHEETS
614+75.00	LIGHT POLE	LEFT	375-376
614+43.00	UNDERDECK LIGHT ANCHORAGE	RIGHT	396
614+91.20	DECK DRAIN - TYPE B	MEDIAN	371-372
615+26.62	DECK DRAIN - TYPE B	LEFT	371-372
615+26.62	DECK DRAIN - TYPE B	RIGHT	371-372
615+34.00	ITS POLE	RIGHT	375-376
616+36.00	LIGHT POLE	RIGHT	375-376

TOP OF DECK ELEVATIONS (GIVEN @ TOP OF OVERLAY)

	℄ PIER P2-002	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P3-002	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P4-002
N. FLOW LINE	629.67	629.36	629.04	628.72	628.40	628.08	627.76	627.45	627.13	626.81	626.49	626.16	625.83	625.50	625.17	624.84	624.51	624.18	623.85	623.52	623.19
GIRDER 1	629.69	629.37	629.06	628.75	628.44	628.12	627.81	627.50	627.19	626.87	626.50	626.18	625.85	625.53	625.20	624.88	624.55	624.23	623.90	623.58	623.20
GIRDER 2	629.87	629.56	629.25	628.93	628.62	628.31	628.00	627.68	627.37	627.06	626.69	626.36	626.04	625.72	625.39	625.07	624.74	624.42	624.09	623.77	623.38
GIRDER 3	630.06	629.75	629.43	629.12	628.81	628.50	628.18	627.87	627.56	627.25	626.88	626.55	626.23	625.90	625.58	625.25	624.93	624.60	624.28	623.95	623.57
GIRDER 4	630.25	629.93	629.62	629.31	629.00	628.68	628.37	628.06	627.75	627.43	627.06	626.74	626.41	626.09	625.76	625.44	625.11	624.79	624.46	624.14	623.76
CROWN	630.35	630.04	629.72	629.40	629.08	628.76	628.44	628.13	627.81	627.49	627.17	626.84	626.51	626.18	625.85	625.52	625.19	624.86	624.53	624.20	623.87
GIRDER 5	630.22	629.91	629.59	629.28	628.97	628.66	628.34	628.03	627.72	627.41	627.04	626.71	626.39	626.06	625.74	625.41	625.09	624.76	624.44	624.11	623.73
GIRDER 6	630.03	629.72	629.41	629.09	628.78	628.47	628.16	627.84	627.53	627.22	626.85	626.52	626.20	625.87	625.55	625.23	624.90	624.58	624.25	623.93	623.54
GIRDER 7	629.85	629.53	629.22	628.91	628.60	628.28	627.97	627.66	627.35	627.03	626.66	626.34	626.01	625.69	625.36	625.04	624.71	624.39	624.06	623.74	623.36
GIRDER 8	629.66	629.35	629.03	628.72	628.41	628.10	627.78	627.47	627.16	626.85	626.48	626.15	625.83	625.50	625.18	624.85	624.53	624.20	623.88	623.55	623.17
GIRDER 9	629.47	629.16	628.85	628.53	628.22	627.91	627.60	627.28	626.97	626.66	626.29	625.96	625.64	625.32	624.99	624.67	624.34	624.02	623.69	623.37	622.98
GIRDER 10	629.29	628.97	628.66	628.35	628.04	627.72	627.41	627.10	626.79	626.47	626.10	625.78	625.45	625.13	624.80	624.48	624.15	623.83	623.50	623.18	622.80
S. FLOW LINE	629.27	628.96	628.64	628.32	628.00	627.68	627.36	627.05	626.73	626.41	626.09	625.76	625.43	625.10	624.77	624.44	624.11	623.78	623.45	623.12	622.79

* SEE DETAIL SHEETS FOR ADDITIONAL DECK REINFORCEMENT REQUIRED IN THIS AREA.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	RWN	PLANS CK'D.	KES

DECK PLAN / REINFORCEMENT 2

SHEET 127 OF 396

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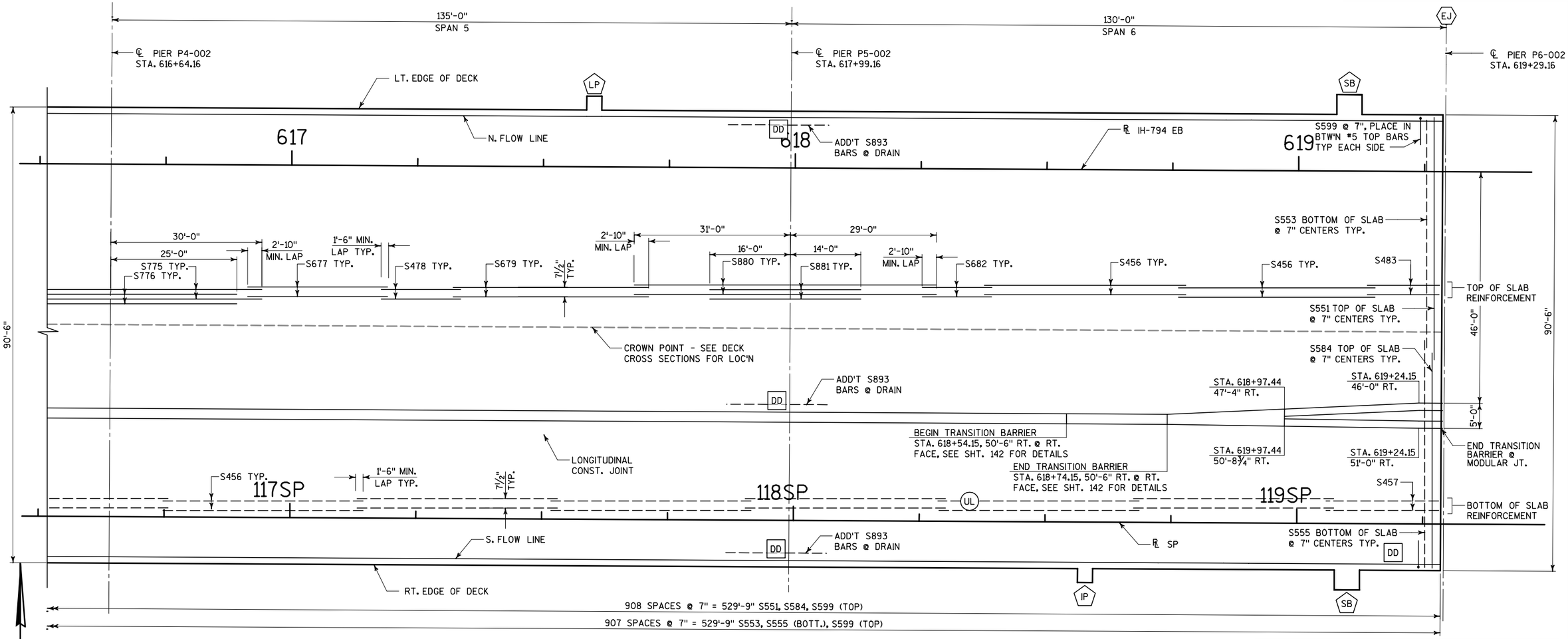
STATE PROJECT NUMBER
1060-05-75



DECK PLAN

LEGEND

- EJ — EXPANSION JOINT LOCATION.
- SB — SIGN BRIDGE MOUNTING LOCATION.*
- IP — ITS POLE MOUNTING LOCATION.*
- DD — DECK DRAIN LOCATION.*
- UL — UNDERDECK LIGHTING ANCHORAGE.
- LP — LIGHT POLE MOUNTING LOCATION.*

TOP OF DECK ELEVATIONS (GIVEN @ TOP OF OVERLAY)

	℄ PIER P4-002	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P5-002	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P6-002
N. FLOW LINE	623.19	622.86	622.54	622.23	621.94	621.66	621.40	621.15	620.91	620.69	620.48	620.30	620.13	619.97	619.82	619.69	619.57	619.46	619.37	619.29	619.23
GIRDER 1	623.20	622.87	622.56	622.26	621.97	621.70	621.44	621.19	620.96	620.75	620.51	620.33	620.16	620.00	619.86	619.73	619.61	619.51	619.42	619.34	619.27
GIRDER 2	623.38	623.06	622.75	622.45	622.16	621.89	621.63	621.38	621.15	620.93	620.69	620.51	620.34	620.19	620.05	619.92	619.80	619.70	619.60	619.52	619.46
GIRDER 3	623.57	623.25	622.93	622.63	622.35	622.07	621.81	621.57	621.34	621.12	620.88	620.70	620.53	620.38	620.23	620.10	619.99	619.88	619.79	619.71	619.64
GIRDER 4	623.76	623.43	623.12	622.82	622.53	622.26	622.00	621.75	621.52	621.31	621.07	620.89	620.72	620.56	620.42	620.29	620.17	620.07	619.98	619.90	619.83
CROWN	623.87	623.54	623.22	622.91	622.62	622.34	622.08	621.83	621.59	621.37	621.16	620.98	620.81	620.65	620.50	620.37	620.25	620.14	620.05	619.97	619.90
GIRDER 5	623.73	623.41	623.09	622.79	622.51	622.23	621.97	621.73	621.50	621.28	621.04	620.86	620.69	620.54	620.39	620.26	620.15	620.04	619.95	619.87	619.80
GIRDER 6	623.54	623.22	622.91	622.61	622.32	622.05	621.79	621.54	621.31	621.09	620.85	620.67	620.50	620.35	620.21	620.08	619.96	619.85	619.76	619.68	619.62
GIRDER 7	623.36	623.03	622.72	622.42	622.13	621.86	621.60	621.35	621.12	620.91	620.67	620.49	620.32	620.16	620.02	619.89	619.77	619.67	619.58	619.50	619.43
GIRDER 8	623.17	622.85	622.53	622.23	621.95	621.67	621.41	621.17	620.94	620.72	620.48	620.30	620.13	619.98	619.83	619.70	619.59	619.48	619.39	619.31	619.24
GIRDER 9	622.98	622.66	622.35	622.05	621.76	621.49	621.23	620.98	620.75	620.53	620.29	620.11	619.94	619.79	619.65	619.52	619.40	619.30	619.20	619.12	619.06
GIRDER 10	622.80	622.47	622.16	621.86	621.57	621.30	621.04	620.79	620.56	620.35	620.11	619.93	619.76	619.60	619.46	619.33	619.21	619.11	619.02	618.94	618.87
S. FLOW LINE	622.79	622.46	622.14	621.83	621.54	621.26	621.00	620.75	620.51	620.29	620.08	619.90	619.73	619.57	619.42	619.29	619.17	619.06	618.97	618.89	618.83

DECK FEATURE SUMMARY			
STATION	FEATURE	SIDE	DETAIL SHEETS
617+60.00	LIGHT POLE	LEFT	375-376
617+96.62	DECK DRAIN - TYPE B	LEFT	371-372
617+96.62	DECK DRAIN TYPE A	MEDIAN	369-370
617+96.62	DECK DRAIN - TYPE B	RIGHT	371-372
618+35.00	UNDERDECK LIGHT ANCHORAGE	RIGHT	396
618+71.00	ITS POLE	RIGHT	375-376
619+10.00	SIGN BRIDGE	LEFT	379-380
619+10.00	SIGN BRIDGE	RIGHT	379-380
619+19.16	DECK DRAIN - TYPE B	RIGHT	371-372
619+29.16	EXPANSION JOINT		365-368

* SEE DETAIL SHEETS FOR ADDITIONAL DECK REINFORCEMENT REQUIRED IN THIS AREA.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	RWN	PLANS CK'D.	KES

DECK PLAN / REINFORCEMENT 3

SHEET 128 OF 396

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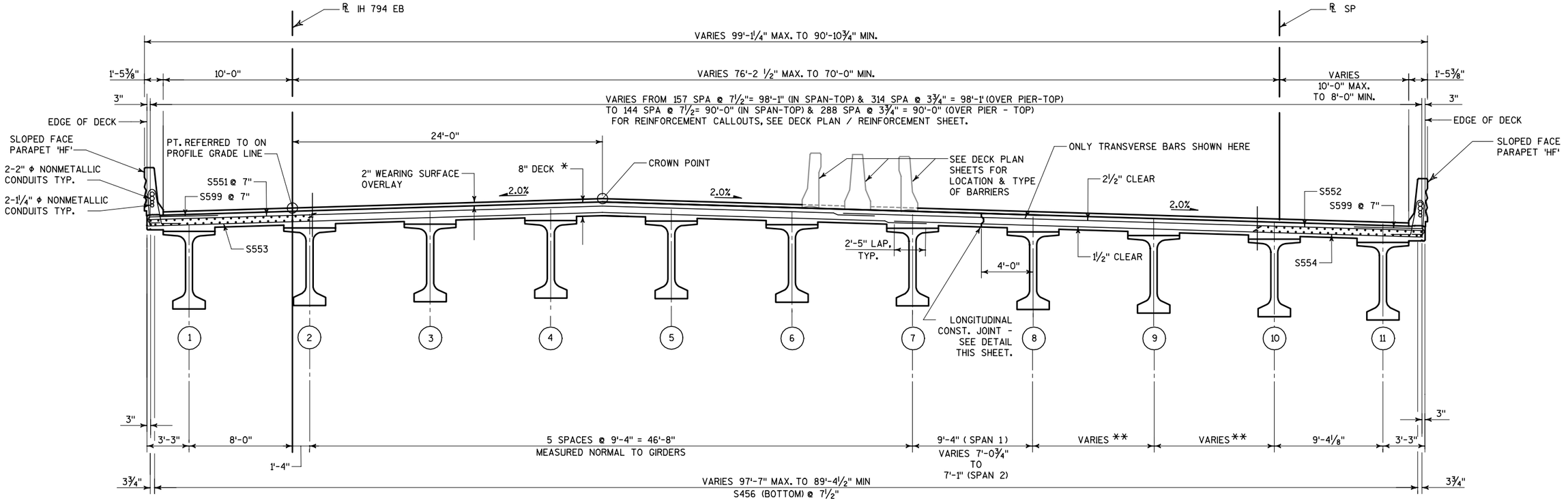
STATE PROJECT NUMBER

1060-05-75



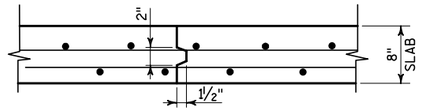
DECK SECTION

LOOKING EAST,
(SPAN 1 & SPAN 2)

NOTES

** SEE FRAMING PLAN FOR VARYING DIMENSIONS

* THE CONTRACTOR HAS THE OPTION TO USE PRECAST CONCRETE DECK PANELS INSTEAD OF TRADITIONAL FORMING METHODS. SEE SHEET 353 FOR DETAILS.



LONGITUDINAL CONSTRUCTION JOINT DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

DECK CROSS SECTION 1

SHEET 129 OF 396

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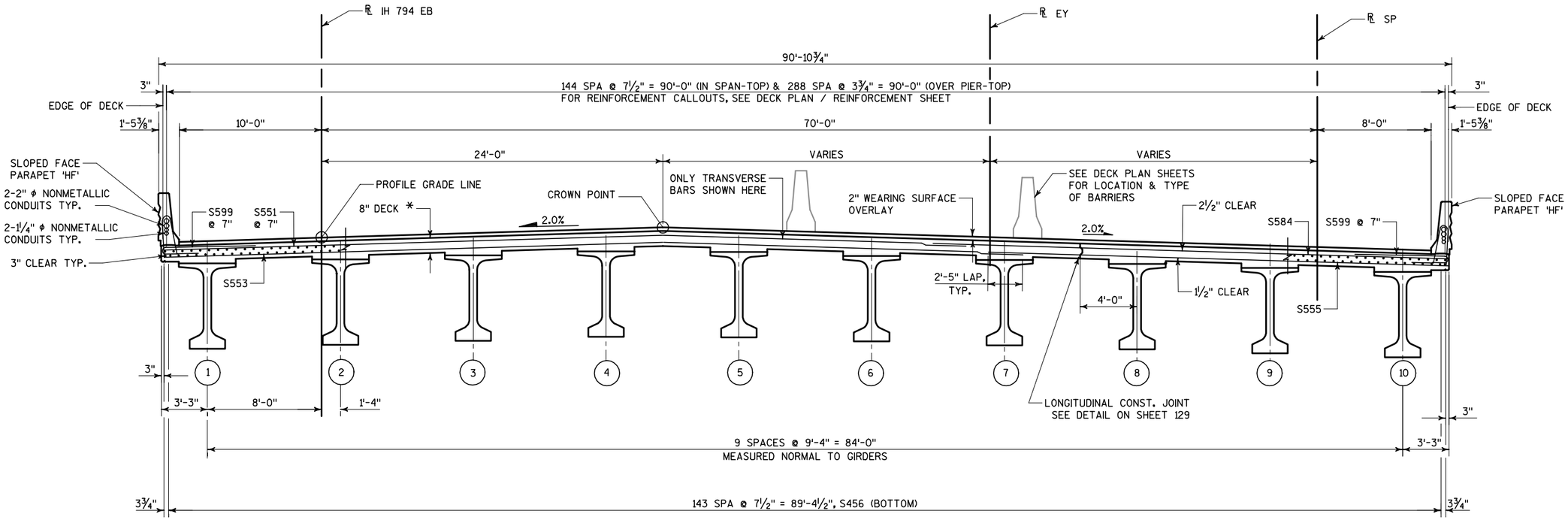
STATE PROJECT NUMBER
1060-05-75



DECK SECTION

LOOKING EAST,
(SPAN 3 & SPAN 4)

NOTE

* THE CONTRACTOR HAS THE OPTION TO USE PRECAST CONCRETE DECK PANELS INSTEAD OF TRADITIONAL FORMING METHODS. SEE SHEET 353 FOR DETAILS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

DECK CROSS SECTION 2

SHEET 130 OF 396

2998

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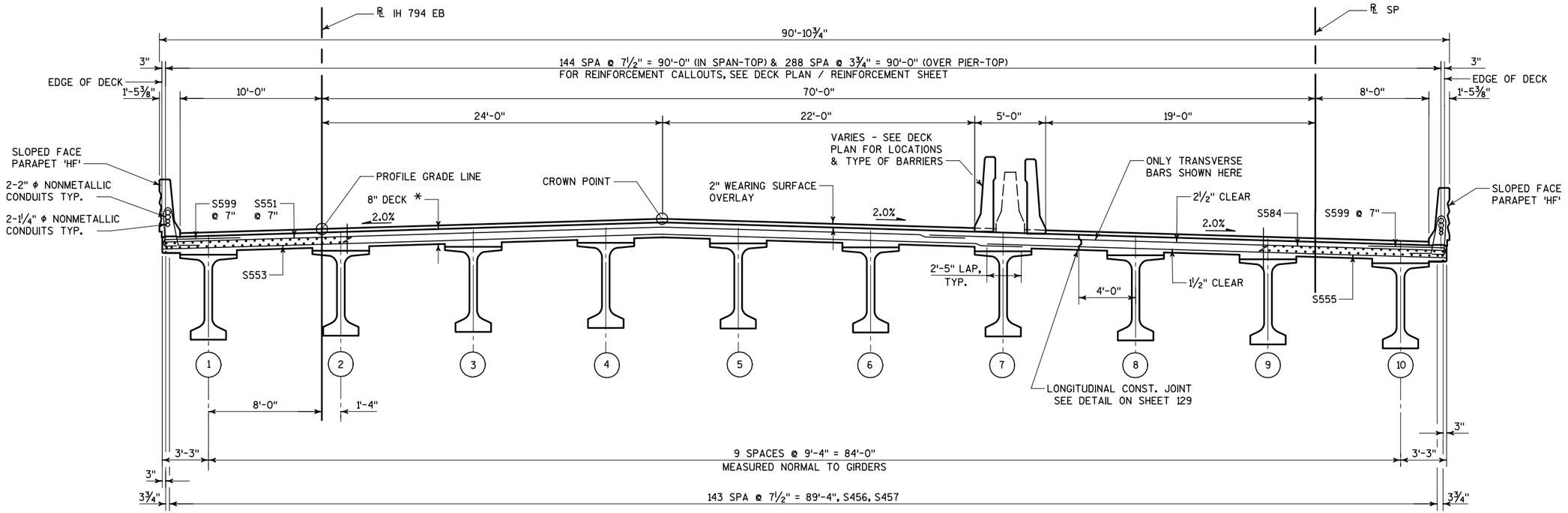
STATE PROJECT NUMBER
1060-05-75



DECK SECTION

LOOKING EAST
(SPAN 5 & SPAN 6)

NOTE

* THE CONTRACTOR HAS THE OPTION TO USE PRECAST CONCRETE DECK PANELS INSTEAD OF TRADITIONAL FORMING METHODS. SEE SHEET 353 FOR DETAILS.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

DECK CROSS SECTION 3

SHEET 131 OF 396

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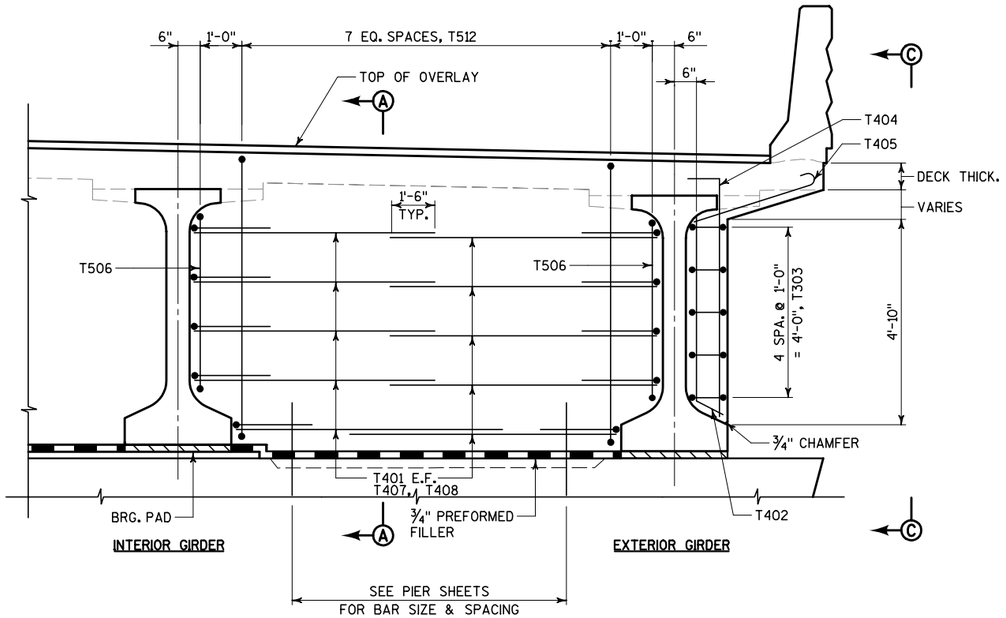
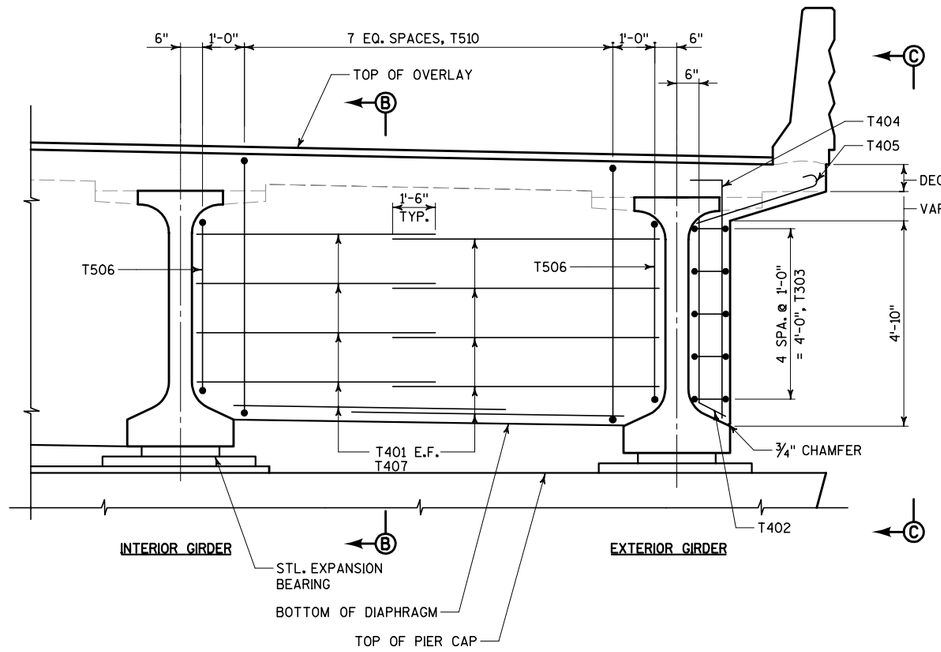
STATE PROJECT NUMBER

1060-05-75



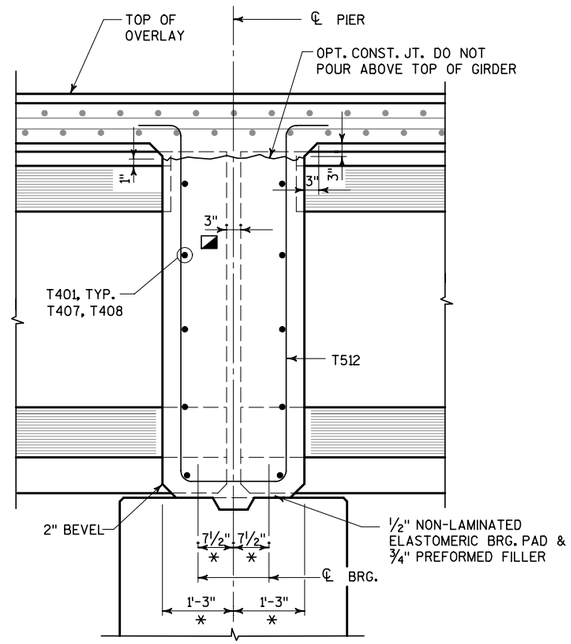
PART TRANSVERSE SECTION AT FIXED PIER DIAPHRAGM

SECTION APPLIES AT PIERS P2-002, P3-002 AND P4-002
SEE SHEET 133 FOR PLAN VIEW AT PIER P2-002

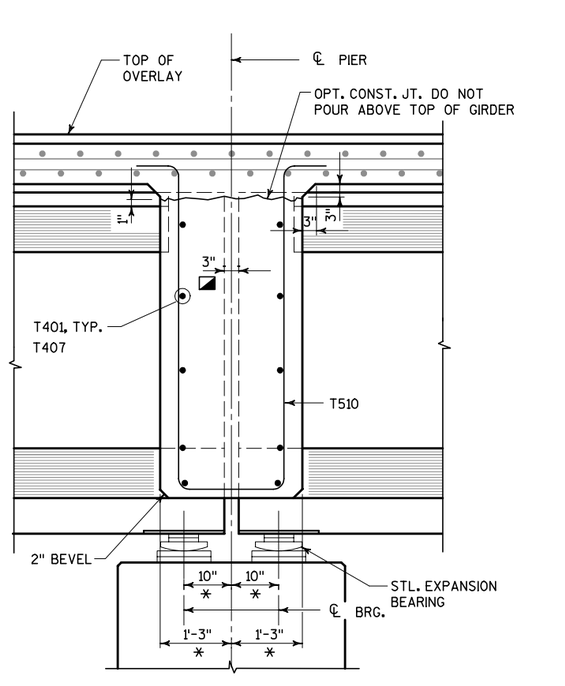


PART TRANSVERSE SECTION AT EXPANSION PIER DIAPHRAGM

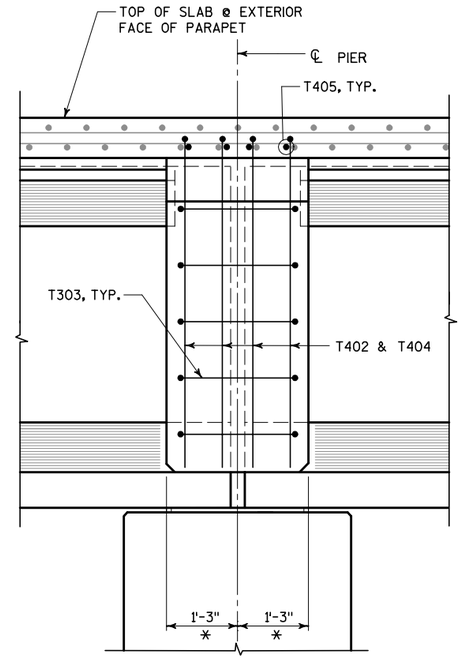
SECTION APPLIES AT PIERS P1-002 AND P5-002
SEE SHEET 133 FOR PLAN VIEW AT PIER P1-002



SECTION A-A



SECTION B-B



SECTION C-C

(FIXED DIAPHRAGM SHOWN, EXPANSION DIAPHRAGM SIMILAR)

LEGEND

* DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS.

◪ DIMENSION IS TAKEN PARALLEL TO ℄ GIRDER.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	RWN	KES

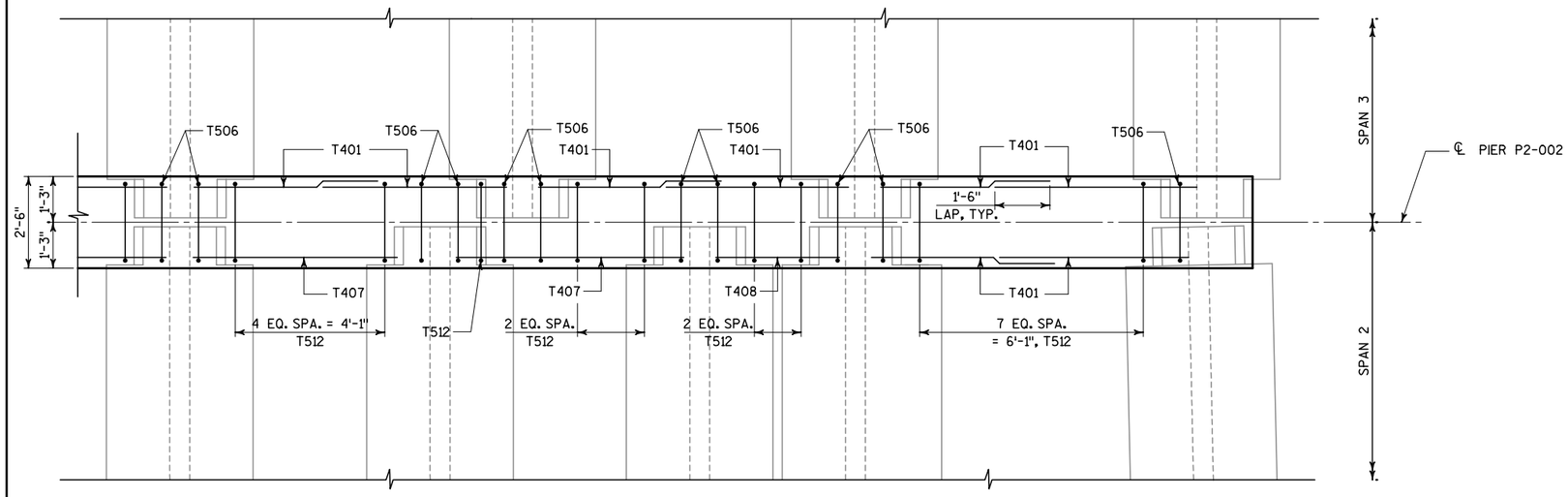
SUPERSTRUCTURE DETAILS 1

SHEET 132 OF 396

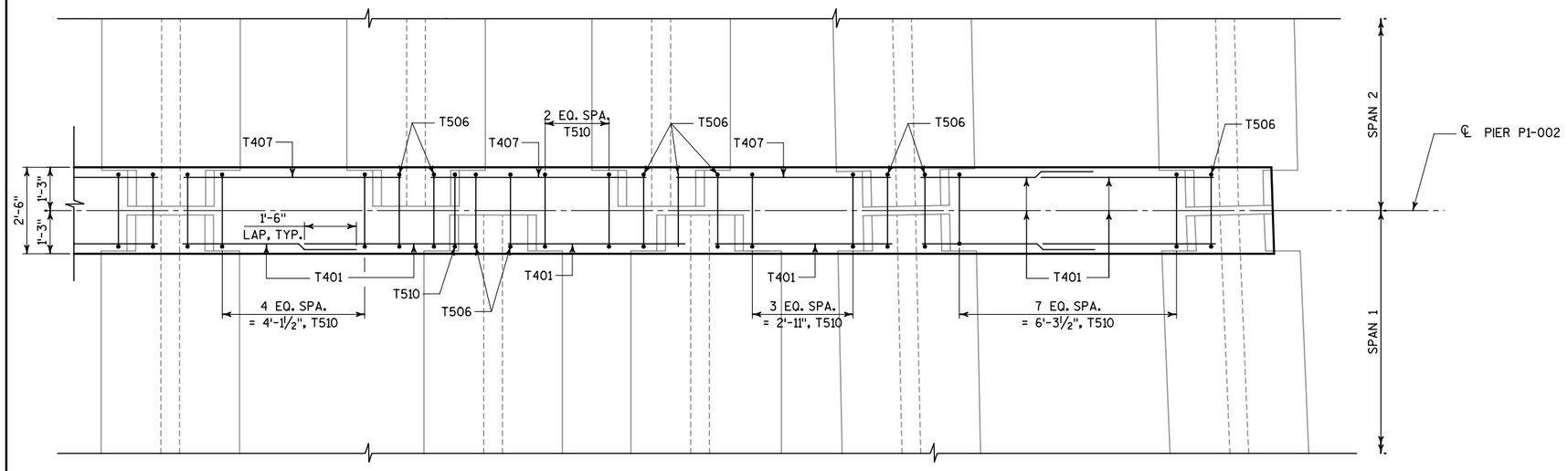
3000

FILE NAME: R:\C\bridges\1312\cds\1312-02C042D.dgn PEN TABLE: \\mtps\FinalDgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:32 Plotted by: emccrigh

STATE PROJECT NUMBER
1060-05-75



PIER P2-002 DIAPHRAGM PLAN



PIER P1-002 DIAPHRAGM PLAN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

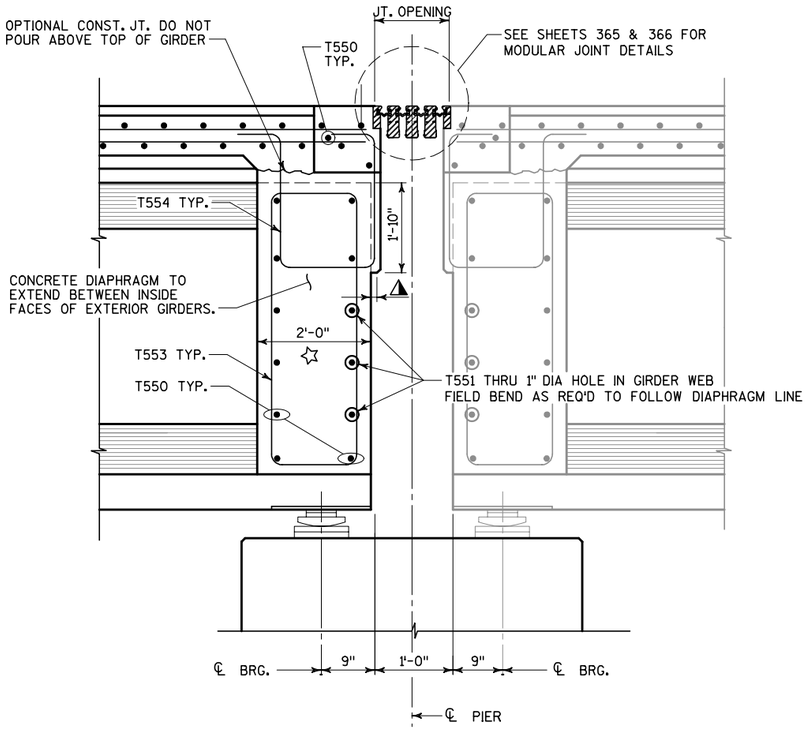
SUPERSTRUCTURE DETAILS 2

SHEET 133 OF 396

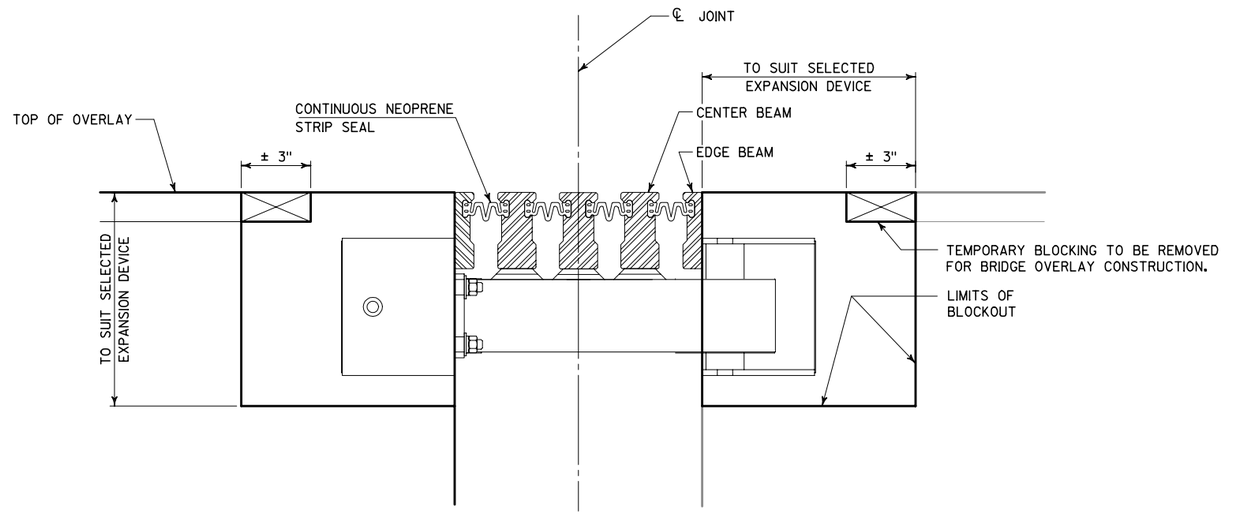
3001

8

STATE PROJECT NUMBER
1060-05-75

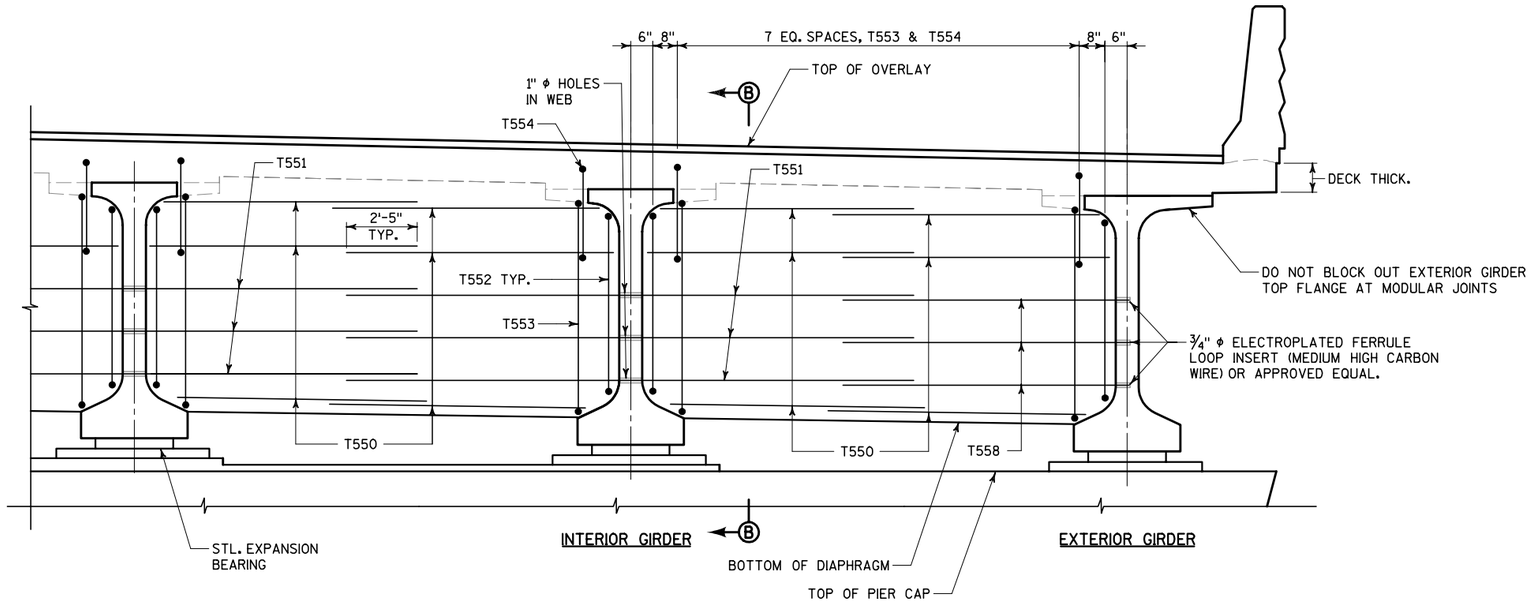


SECTION B-B



TYPICAL SECTION THRU SUPPORT BOX

(NOT TO SCALE)



PART TRANSVERSE SECTION AT MODULAR EXPANSION JT. PIER DIAPHRAGM

BACK FACE REINFORCING SHOWN - SEE SECTION B-B FOR FRONT FACE
SECTION APPLIES AT PIERS P10-001, P9-005 AND P6-002

LEGEND

☆ DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS.

⚠ DIMENSION VARIES BASED ON MANUFACTURER'S RECOMMENDED JT. OPENING, MIN. DIMENSION = 0"

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	RWN	PLANS CK'D.	KES

SUPERSTRUCTURE DETAILS 3

SHEET 134 OF 396

3002

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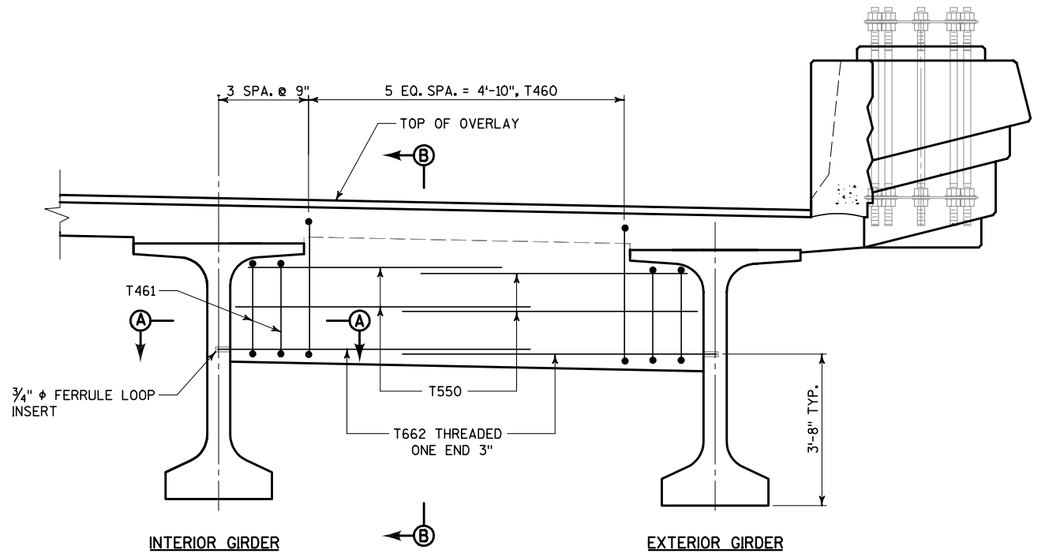
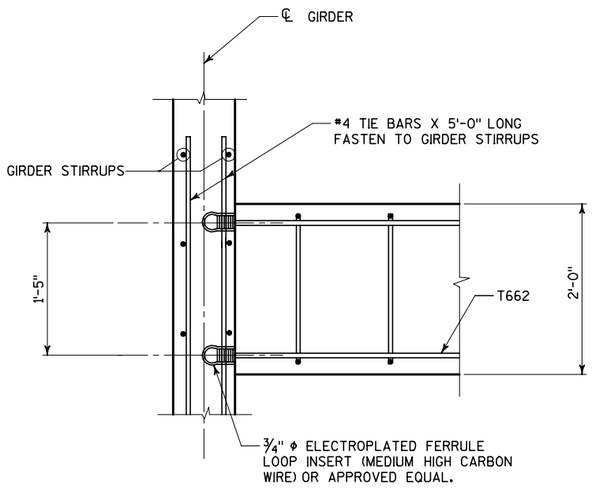
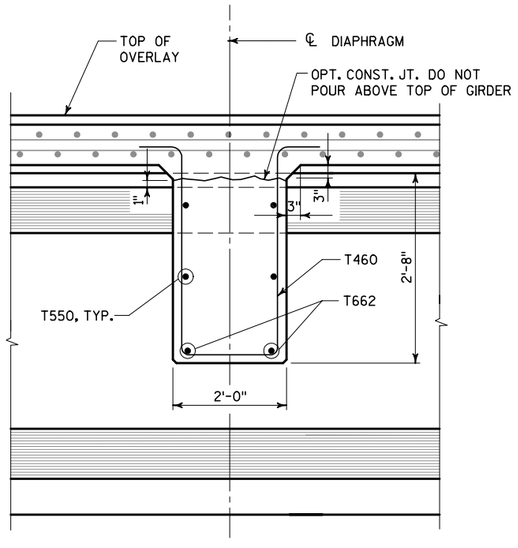
STATE PROJECT NUMBER
1060-05-75



CONCRETE DIAPHRAGM AT SIGN BASE SUPPORT



SECTION A-A



SECTION B-B

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC. 2004	DRAWN BY RWN	PLANS CK'D. KES

SUPERSTRUCTURE DETAILS 4

SHEET 135 OF 396

3003

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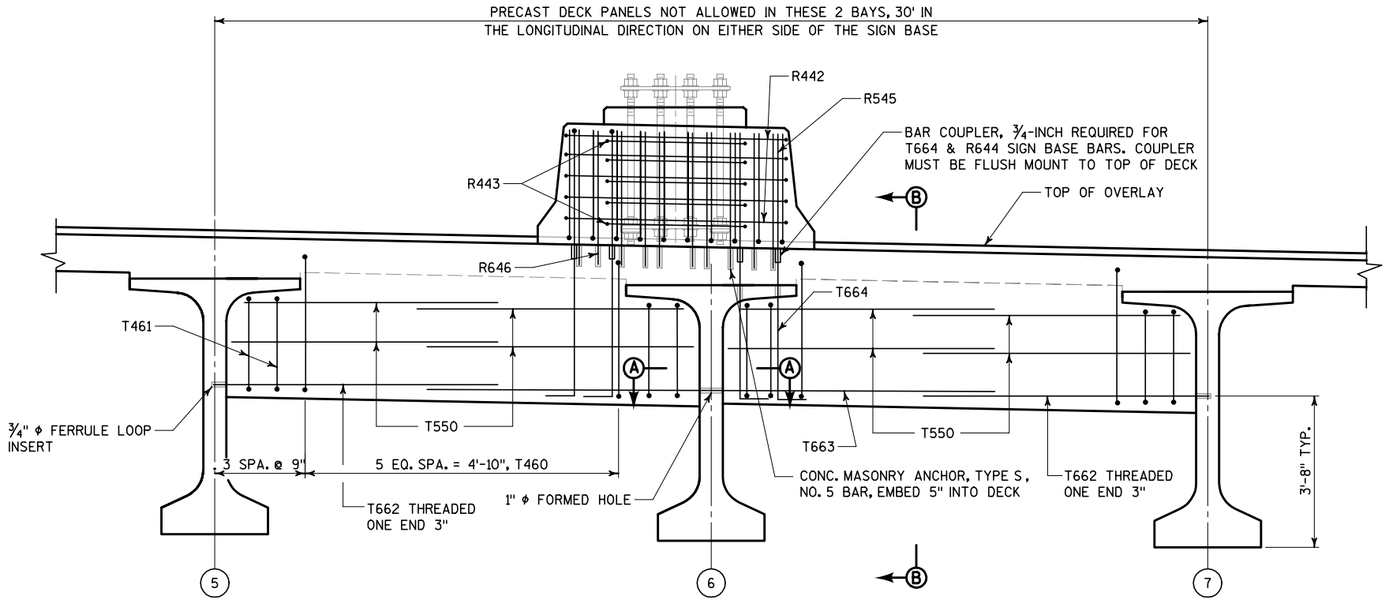
STATE PROJECT NUMBER

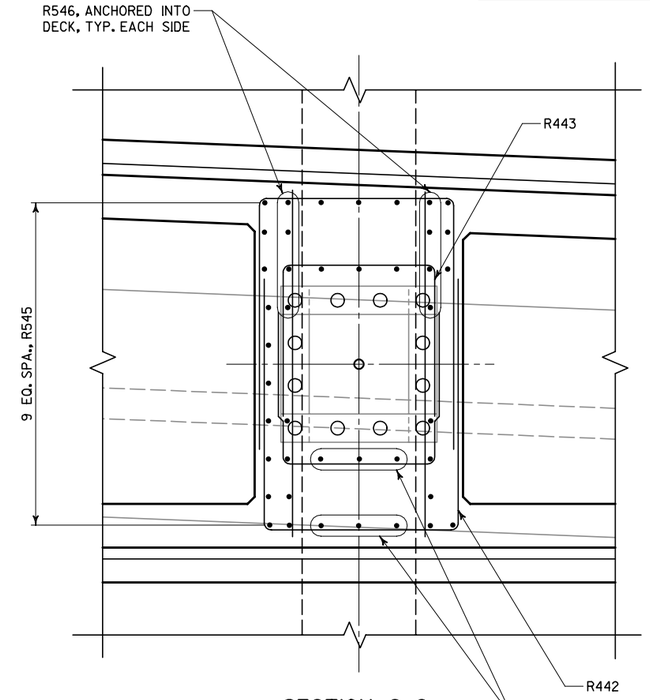
1060-05-75



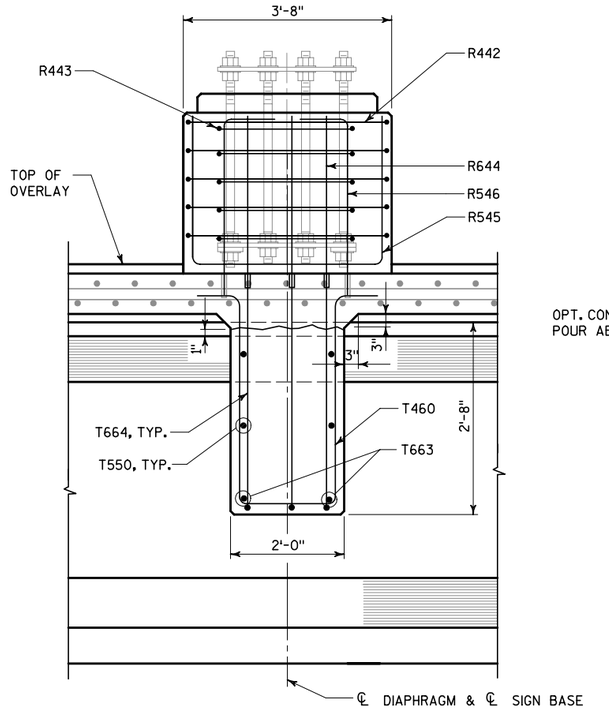
CONCRETE DIAPHRAGM AT SIGN BASE SUPPORT

(LOOKING EAST)

NOTE:
BAR COUPLERS ARE INCIDENTAL TO PAY ITEM
"HIGH PERFORMANCE CONCRETE (HPC) MASONRY SUPERSTRUCTURES"

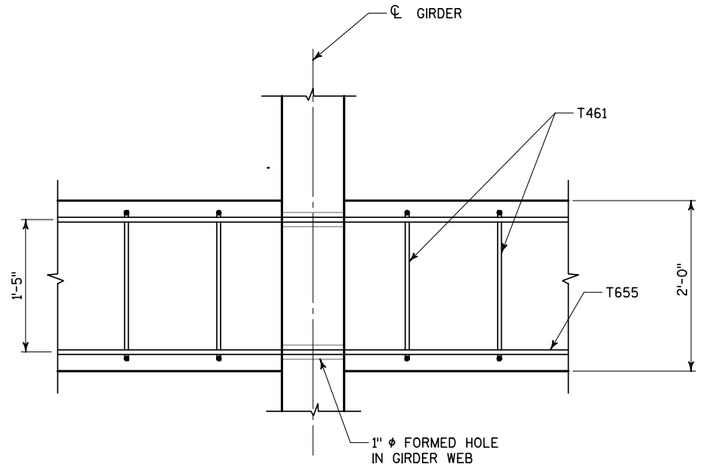


SECTION C-C



OPT. CONST. JT. DO NOT POUR ABOVE TOP OF GIRDER

SECTION B-B



SECTION A-A

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	RWN	PLANS CK'D.	KES

SUPERSTRUCTURE DETAILS 5

SHEET 136 OF 396

3004

FILE NAME: R:\C&bridges\1312\cds\1312-02C046D.dgn PEN TABLE: \\mtp\FindDgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:32 Plotted by: emccrigh

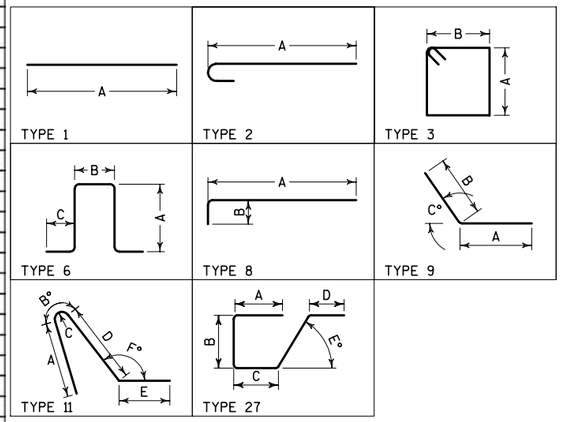
BAR INFORMATION						BAR DIMENSIONS							LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G		
S501	E	2390	5'-4"	13295	11	1'-9"	159°	2"	2'-0"	1'-0"	116°		STANDARD PARAPET DOWELS	
S602	E	42	6'-6"	410	9	3'-3"	3'-3"	83°					LIGHT POLE BASE PARAPET DOWELS	
S603	E	36	6'-5"	347	8	3'-3"	3'-3"						EXTRA TOP AT SIGN BRIDGES	
S605	E	72	14'-9"	1595	2	14'-0"							LIGHT POLE BASE EXTRA TRANSVERSE	
S507	E	30	4'-2"	130	9	1'-11"	2'-3"	15°					LIGHT POLE BASE EXTRA DOWELS	
S710	E	52	16'-10"	1789	8	16'-0"	1'-0"						EXTRA TOP AT SIGN BRIDGES	
S811	E	60	18'-10"	3017	8	18'-0"	1'-0"						EXTRA TOP AT SIGN BRIDGES	
S515	E	12	8'-7"	107	2	8'-0"							EXTRA BOTTOM AT SIGN BRIDGES	
S616	E	24	10'-9"	388	2	10'-0"							EXTRA TOP/BOTTOM AT SIGN BRIDGES	
S551	E	1364	56'-8"	80561	1	56'-8"							SLAB TOP - TRANSVERSE	
S552	E	456	40'-2"	19094	1	40'-2"							SLAB TOP - TRANSVERSE - SPANS 1 & 2 SERIES	LENGTH VARIES 44'-3" TO 36'-1" (1 SET)
S553	E	1364	60'-0"	85359	1	60'-0"							SLAB BOTTOM - TRANSVERSE	
S554	E	455	36'-9"	17451	1	36'-9"							SLAB BOTTOM - TRANSVERSE - SPAN 1 & 2 SERIES	LENGTH VARIES 32'-8" TO 40'-11" (1 SET)
S555	E	909	32'-5"	30734	1	32'-5"							SLAB BOTTOM - TRANSVERSE - SPAN 3,4,5 & 6	
S456	E	2985	40'-0"	79759	1	40'-0"							SLAB BOTTOM- LONGITUDINAL	
S457	E	146	25'-0"	2438	1	25'-0"							SLAB BOTTOM - LONGITUDINAL - SPAN 6	
S458	E	156	20'-6"	2136	1	20'-6"							SLAB TOP - LONGITUDINAL - SPAN 1	
S659	E	156	14'-10"	3476	1	14'-10"							SLAB TOP - LONGITUDINAL - SPAN 1	
S860	E	155	49'-0"	20279	1	49'-0"							SLAB TOP - LONGITUDINAL - PIER P2-002	
S861	E	155	30'-0"	12416	1	30'-0"							SLAB TOP - LONGITUDINAL - PIER P2-002	
S762	E	153	27'-7"	8626	1	27'-7"							SLAB TOP - LONGITUDINAL - SPAN 2	
S563	E	149	40'-0"	6216	1	40'-0"							SLAB TOP - LONGITUDINAL - SPAN 2	
S564	E	149	18'-3"	2836	1	18'-3"							SLAB TOP - LONGITUDINAL - SPAN 2	
S665	E	147	10'-10"	2392	1	10'-10"							SLAB TOP - LONGITUDINAL - SPAN 2	
S766	E	147	53'-0"	15925	1	53'-0"							SLAB TOP - LONGITUDINAL - PIER P3-003	
S767	E	145	40'-0"	11855	1	40'-0"							SLAB TOP - LONGITUDINAL - PIER P3-003	
S568	E	145	15'-10"	2395	1	15'-10"							SLAB TOP - LONGITUDINAL - SPAN 3	
S669	E	145	27'-10"	6062	1	27'-10"							SLAB TOP - LONGITUDINAL - SPAN 3	
S770	E	145	59'-0"	17486	1	59'-0"							SLAB TOP - LONGITUDINAL - PIER P4-004	
S771	E	145	40'-0"	11855	1	40'-0"							SLAB TOP - LONGITUDINAL - PIER P4-004	
S572	E	145	14'-5"	2180	1	14'-5"							SLAB TOP - LONGITUDINAL - SPAN 4	
S473	E	145	10'-6"	1017	1	10'-6"							SLAB TOP - LONGITUDINAL - SPAN 4	
S674	E	145	17'-10"	3884	1	17'-10"							SLAB TOP - LONGITUDINAL - SPAN 4	
S775	E	145	60'-0"	17783	1	60'-0"							SLAB TOP - LONGITUDINAL - PIER P5-005	
S776	E	145	45'-0"	13337	1	45'-0"							SLAB TOP - LONGITUDINAL - PIER P5-005	
S677	E	145	27'-10"	6062	1	27'-10"							SLAB TOP - LONGITUDINAL - SPAN 5	
S478	E	145	16'-0"	1550	1	16'-0"							SLAB TOP - LONGITUDINAL - SPAN 5	
S679	E	145	38'-10"	8458	1	38'-10"							SLAB TOP - LONGITUDINAL - SPAN 5	
S880	E	145	60'-0"	23229	1	60'-0"							SLAB TOP - LONGITUDINAL - PIER P6-006	
S881	E	145	30'-0"	11615	1	30'-0"							SLAB TOP - LONGITUDINAL - PIER P6-006	
S682	E	145	13'-10"	3013	1	13'-10"							SLAB TOP - LONGITUDINAL - SPAN 6	
S483	E	145	14'-3"	1380	1	14'-3"							SLAB TOP - LONGITUDINAL - SPAN 6	
S584	E	909	24'-5"	23187	1	24'-5"							SLAB TOP - TRANSVERSE - SPAN 3, 4, 5 & 6	
S590	E	48	20'-0"	1001	1	20'-0"							SLAB - LONGITUDINAL AT DECK DRAINS	
S792	E	24	20'-0"	981	1	20'-0"							SLAB - LONGITUDINAL AT DECK DRAINS	
S893	E	96	20'-0"	5126	1	20'-0"							SLAB - LONGITUDINAL AT DECK DRAINS	
S694	E	56	10'-11"	918	8	5'-6"	5'-6"						SLAB - TRANSVERSE AT DECK DRAINS	
S599	E	2604	6'-0"	16296	2	5'-6"							SLAB - TRANSVERSE ET EDGE OF DECK	
T401	E	860	4'-11"	2825	1	4'-11"							DIAPHRAGM - HORIZONTAL	
T402	E	40	4'-8"	125	9	4'-1"	7"	65°					DIAPHRAGM - VERTICAL	
T303	E	50	5'-9"	108	3	6½"	2'-1"						DIAPHRAGM - HORIZONTAL	
T404	E	40	6'-1"	163	8	5'-6"							DIAPHRAGM - VERTICAL	
T405	E	40	3'-7"	96	2	3'-1"							DIAPHRAGM - VERTICAL	
T506	E	96	12'-9"	1277	3	3'-11"	2'-1"						DIAPHRAGM - VERTICAL	
T407	E	25	6'-1"	102	1	6'-1"							DIAPHRAGM - HORIZONTAL	
T408	E	5	3'-3"	11	1	3'-3"							DIAPHRAGM - HORIZONTAL	
T510	E	139	15'-6"	2247	6	5'-10"	2'-1"	1'-0"					DIAPHRAGM - VERTICAL - PIERS P1-002 & P5-002	
T512	E	219	16'-2"	3693	6	6'-2"	2'-1"	1'-0"					DIAPHRAGM - VERT. - PIERS P2-002, P3-002, P4-002	
T550	E	390	5'-8"	2305	1	5'-8"							MODULAR EXPANSION JT. DIAPH. - HORIZONTAL	
T551	E	51	11'-11"	634	1	11'-11"							MODULAR EXPANSION JT. DIAPH. - HORIZONTAL	
T552	E	38	11'-9"	466	3	3'-11"	1'-7"						MODULAR EXPANSION JT. DIAPH. - VERTICAL	
T553	E	152	13'-11"	2206	3	5'-0"	1'-7"						MODULAR EXPANSION JT. DIAPH. - VERTICAL	
T554	E	152	8'-1"	1281	27	0'-10"	2'-7"	1'-7"	0'-10"	90^			MODULAR EXPANSION JT. DIAPH. - VERTICAL	
T558	E	12	5'-11"	74	1	5'-11"							MODULAR EXPANSION JT. DIAPH. - HORIZ. - THREADED	
T460	E	36	8'-6"	204	6	3'-0"	1'-6"	0'-8"					DIAPHRAGM - SIGN BASE - HORIZONTAL	
T461	E	24	7'-9"	124	3	2'-0"	1'-6"						DIAPHRAGM - SIGN BASE - VERTICAL	
T662	E	24	6'-2"	222	1	6'-2"							DIAPHRAGM - SIGN BASE - HORIZONTAL - THREADED	
T663	E	2	12'-2"	37	1	12'-2"							DIAPHRAGM - SIGN BASE - HORIZONTAL	
T664	E	12	4'-3"	77	8	3'-5"	1'-0"						DIAPHRAGM - SIGN BASE - HORIZONTAL - THREADED	
		TOTAL WEIGHT = 619725 LBS												

STATE PROJECT NUMBER

1060-05-75

NOTES:

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. SEE THE ACCOMPANYING BAR SERIES TABLE FOR SET COUNT AND BAR LENGTHS.
5. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
6. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.



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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

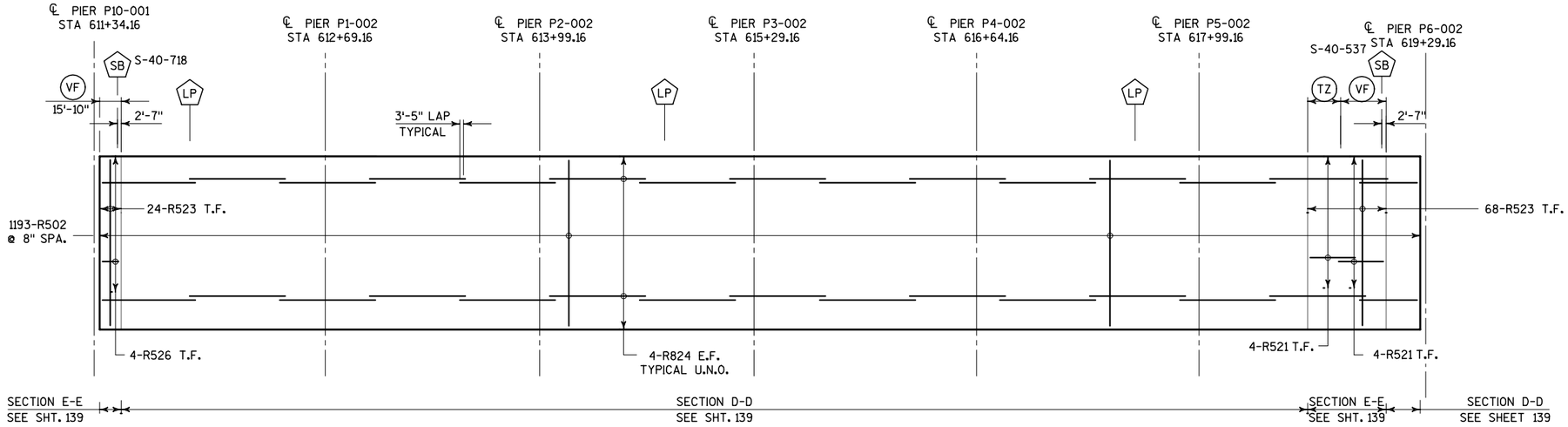
CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

SUPERSTRUCTURE REINF. SCHEDULE

SHEET 137 OF 396

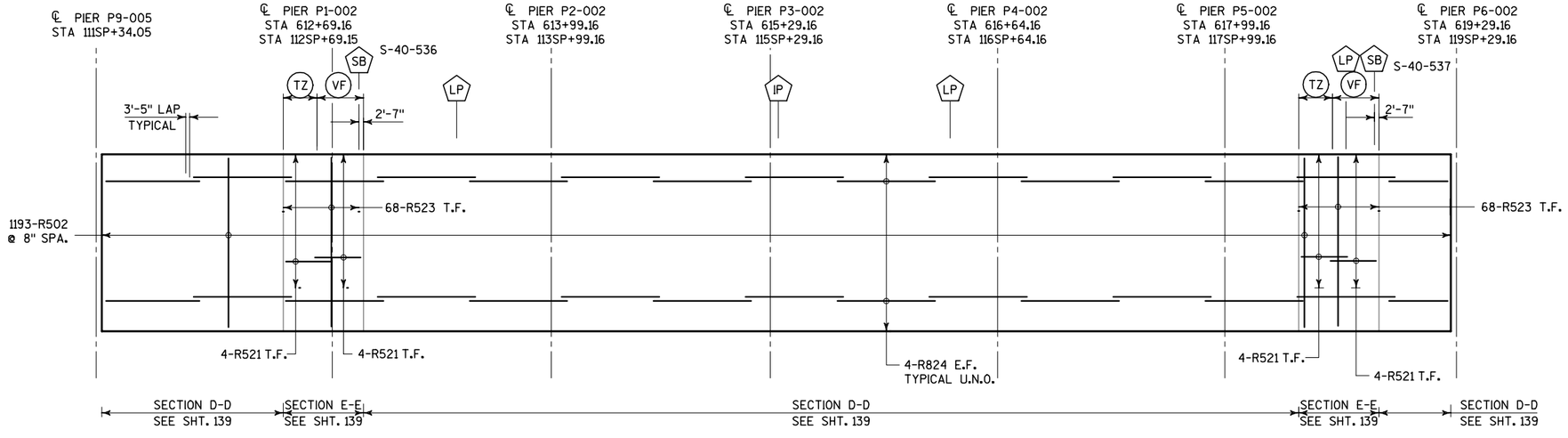
3005

STATE PROJECT NUMBER
1060-05-75



LEFT SIDE PARAPET ELEVATION

LOOKING LEFT AT TRAFFIC FACE
(NOT TO SCALE - SURFACE FEATURES NOT SHOWN)



RIGHT SIDE PARAPET ELEVATION

LOOKING LEFT AT EXTERIOR FACE
(NOT TO SCALE - SURFACE FEATURES NOT SHOWN)

LEGEND

- (IP) ITS POLE MOUNTING LOCATION. SEE SHEETS 375 TO 376
- (LP) LIGHT POLE MOUNTING LOCATION. SEE SHEETS 375 TO 376
- (SB) SIGN BRIDGE MOUNTING LOCATION. SEE SHEETS 371 TO 372
- (VF) VERTICAL FACE BARRIER SECTION - SEE SECTION E-E ON SHEET 139.
  VERTICAL FACE BEGINS 22'-5" FROM CENTERLINE SIGN BRIDGE AS SHOWN AND TERMINATES AT THE DOWNSTREAM END OF THE SIGN BRIDGE BASE.
- (TZ) 20'-0" TRANSITION ZONE FROM SAFETY SHAPE TO VERTICAL FACE BARRIER - SEE SECTION E-E ON SHEET 139.
- T.F. DENOTES BARS LOCATED ON 'TRAFFIC FACE' OF PARAPET.
- E.F. DENOTES BARS LOCATED ON BOTH FACES OF PARAPET ('EACH FACE').

NOTES

1. SEE SHEETS 3 & 4 FOR GENERAL NOTES.
2. UNLESS INSTALLATION IS EXPLICITLY COVERED BY A SEPARATE PAY ITEM, INSTALLATION OF ALL EMBEDMENTS IS CONSIDERED INCIDENTAL TO PAY ITEM SPV.0090.2040 - PARAPET BRIDGE FREEWAY STRUCTURES.
   SUPPLY OF EMBEDMENTS IS INCLUDED UNDER OTHER PAY ITEMS - SEE SHEET 5.
   SUPPLY OF EXPANSION FITTINGS FOR CONDUIT IS CONSIDERED INCIDENTAL TO THE PAY ITEM FOR THE CONDUIT BEING CONNECTED.
3. ALL EXPOSED CONDUIT ENDS SHALL BE SUPPLIED WITH TEMPORARY WEATHERPROOF CAPS TO PREVENT INGRESS OF MOISTURE PRIOR TO LIGHT POLE OR SIGN BRIDGE INSTALLATION.

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DEPARTMENT OF TRANSPORTATION
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STRUCTURE B-40-1312 (002)

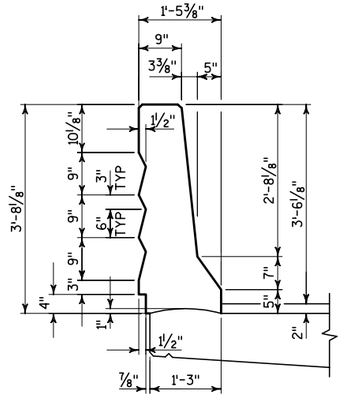
CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PARAPET ELEVATIONS

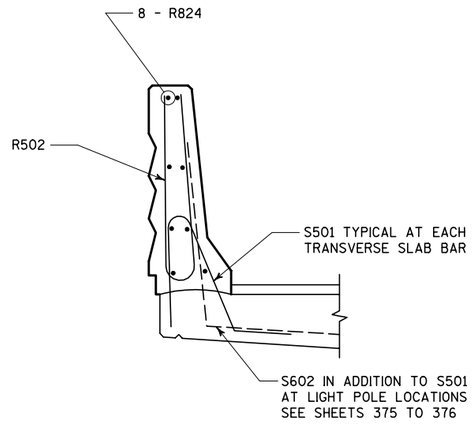
SHEET 138 OF 396
3006

8

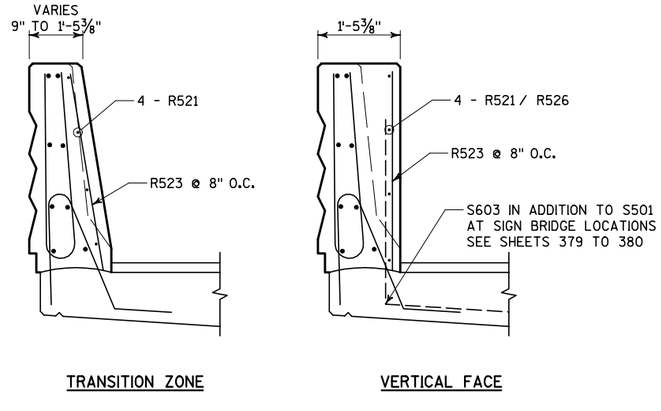
STATE PROJECT NUMBER
1060-05-75



SECTION D-D
(SHOWING DIMENSIONS)



SECTION D-D
(SHOWING REINFORCEMENT)



TRANSITION ZONE

VERTICAL FACE

SECTION E-E

NOTES

1. SEE SHEET 3 & 4 FOR GENERAL NOTES.
2. UTILITY CONDUITS NOT SHOWN IN SECTIONS. SEE SHEET 140 FOR NUMBER, SIZE AND EXTENT OF CONDUITS REQUIRED.
3. INSTALLATION OF ALL EMBEDDED ITEMS IS CONSIDERED INCIDENTAL TO PAY ITEM SPV.0090.2040 - PARAPET BRIDGE (FREEWAY STRUCTURES).

   SUPPLY OF EMBEDDED ITEMS IS INCLUDED UNDER OTHER PAY ITEMS - SEE QUANTITIES SHEETS

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

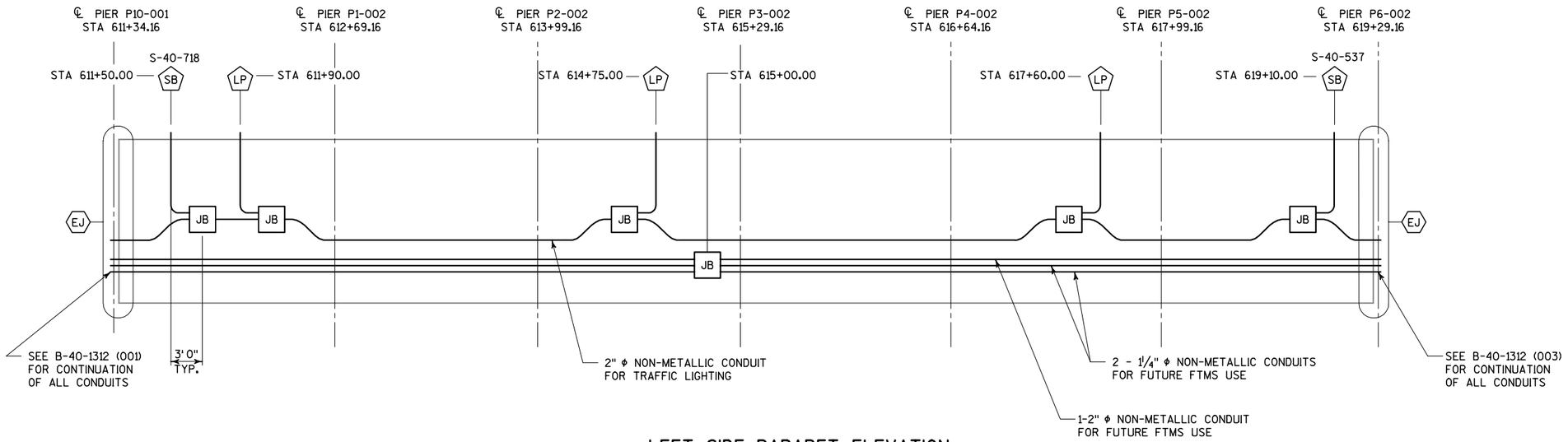
CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

PARAPET SECTIONS

SHEET 139 OF 396

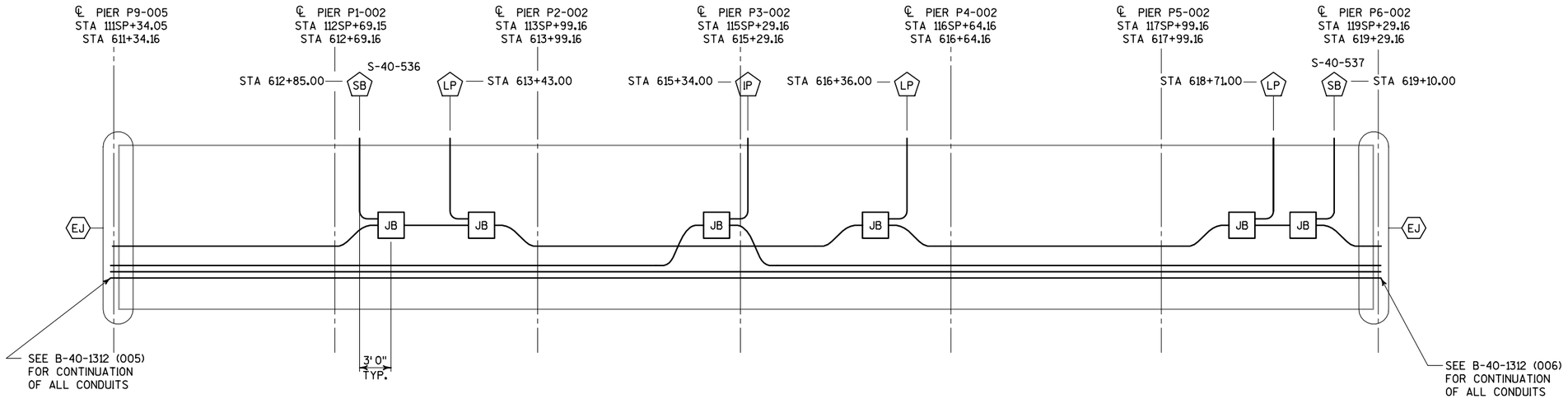
3007

STATE PROJECT NUMBER
1060-05-75



LEFT SIDE PARAPET ELEVATION

LOOKING LEFT AT TRAFFIC FACE
(NOT TO SCALE - SURFACE FEATURES NOT SHOWN)



RIGHT SIDE PARAPET ELEVATION

LOOKING LEFT AT EXTERIOR FACE
(NOT TO SCALE - SURFACE FEATURES NOT SHOWN)

LEGEND

- EJ — EXPANSION JOINT LOCATION. SEE SHEET 134 FOR DETAILS OF CONDUIT JOINTS REQUIRED IN THIS AREA (IF CONDUITS ARE PRESENT).
- IP — ITS POLE MOUNTING LOCATION - INSTALLATION OF ANCHOR ASSEMBLY REQUIRED. SEE SHEETS 354 TO 355.
- LP — LIGHT POLE MOUNTING LOCATION - INSTALLATION OF ANCHOR ASSEMBLY REQUIRED. SEE SHEETS 354 TO 355.
- SB — SIGN BRIDGE MOUNTING LOCATION - INSTALLATION OF ANCHOR ASSEMBLY REQUIRED. SEE SHEETS 358 TO 359.
- JB — JUNCTION BOX LOCATION - 14" X 8" X 6" TYPICAL. LOCATE ON TRAFFIC FACE OF BARRIER WITH TOP EDGE OF BOX 8" BELOW TOP OF PARAPET UNLESS OTHERWISE NOTED. RESPACE PARAPET REINFORCEMENT LOCALLY AS REQUIRED TO CLEAR.

NOTES

1. SEE SHEETS 3 & 4 FOR GENERAL NOTES.
2. UNLESS INSTALLATION IS EXPLICITLY COVERED BY A SEPARATE PAY ITEM, INSTALLATION OF ALL EMBEDMENTS IS CONSIDERED INCIDENTAL TO PAY ITEM SPV.0090.2040 - PARAPET BRIDGE FREEWAY STRUCTURES.

   SUPPLY OF EMBEDMENTS IS INCLUDED UNDER OTHER PAY ITEMS - SEE SHEET 5.

   SUPPLY OF EXPANSION FITTINGS FOR CONDUIT IS CONSIDERED INCIDENTAL TO THE PAY ITEM FOR THE CONDUIT BEING CONNECTED.
3. ALL EXPOSED CONDUIT ENDS SHALL BE SUPPLIED WITH TEMPORARY WEATHERPROOF CAPS TO PREVENT INGRESS OF MOISTURE PRIOR TO LIGHT POLE OR SIGN BRIDGE INSTALLATION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

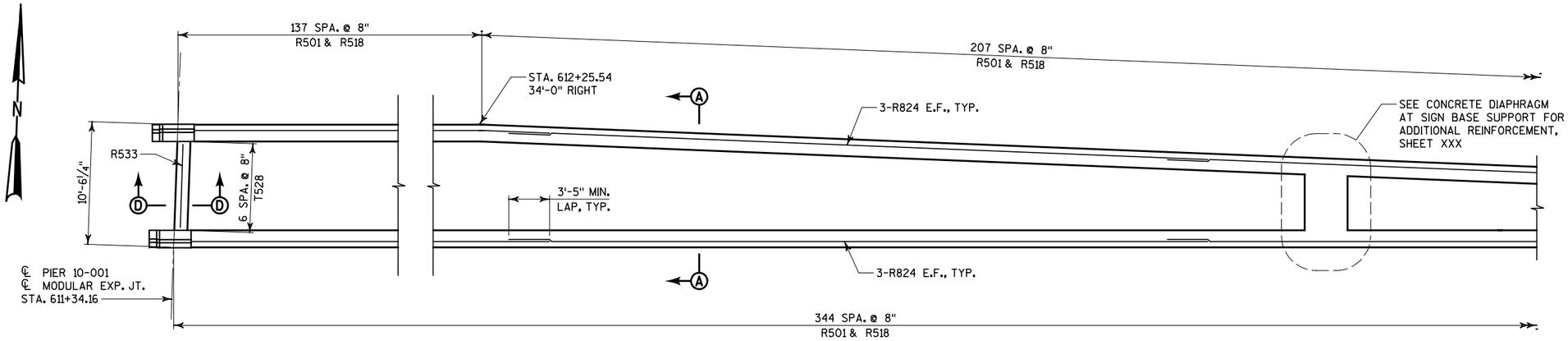
CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PARAPET EMBEDDED WORK

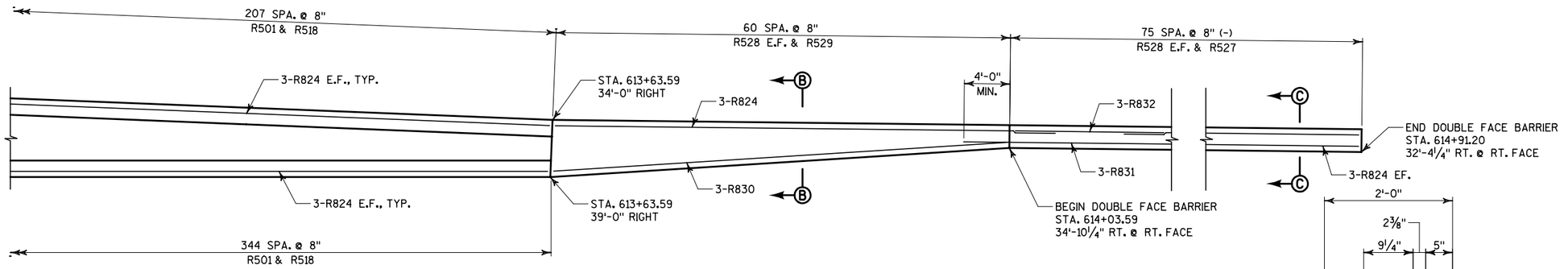
SHEET 140 OF 396
3008

8

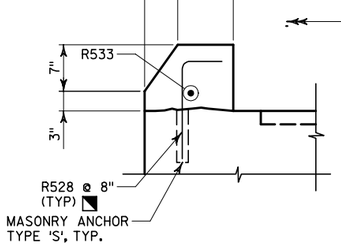
STATE PROJECT NUMBER
1060-05-75



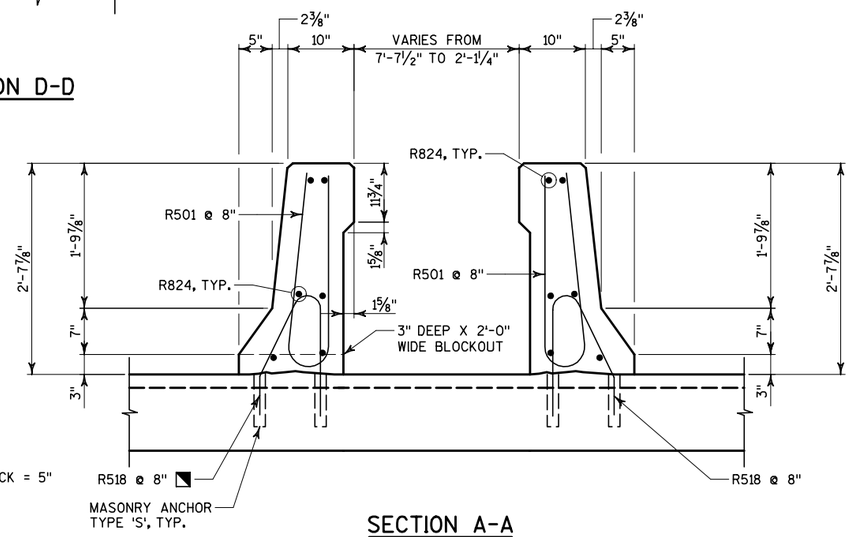
PARTIAL PLAN



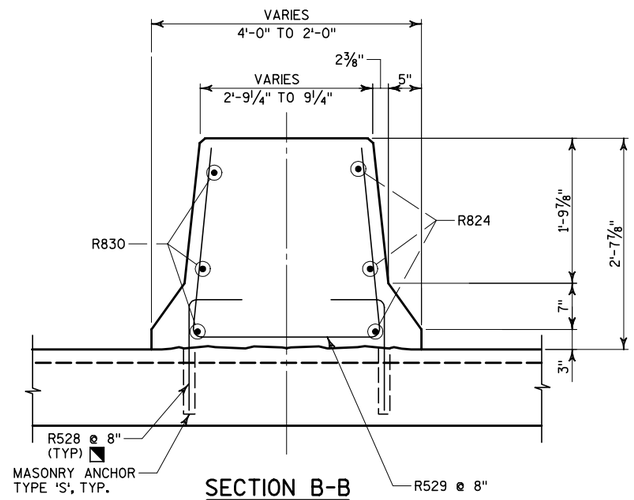
PARTIAL PLAN



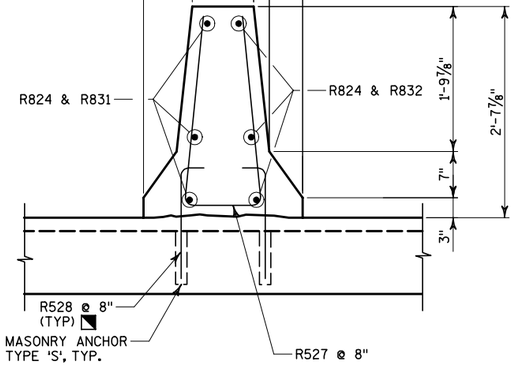
SECTION D-D



SECTION A-A



SECTION B-B



SECTION C-C

LEGEND

▙ CONC. MASONRY ANCHOR, TYPE 'S', NO. 5 BAR (5/8") MIN. EMBEDMENT INTO DECK = 5"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

SLOPE FACE BARRIER DETAILS 1

SHEET 141 OF 396

3009

8

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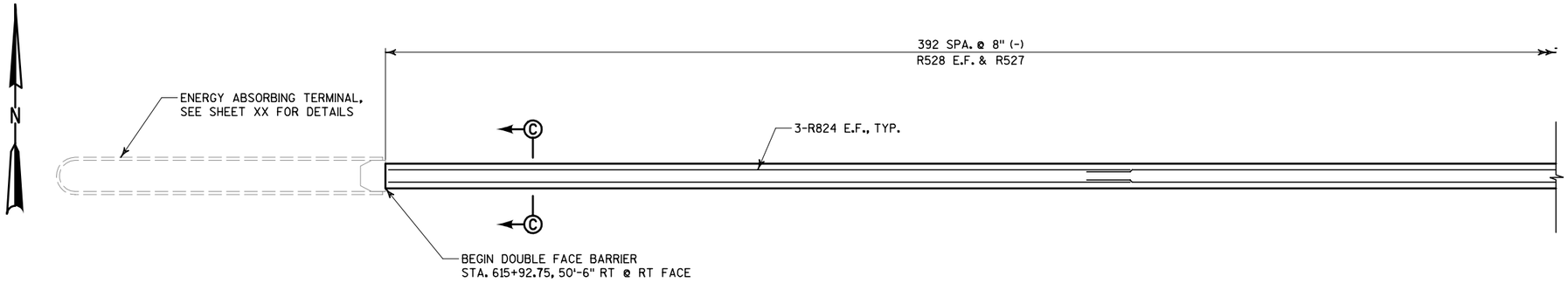
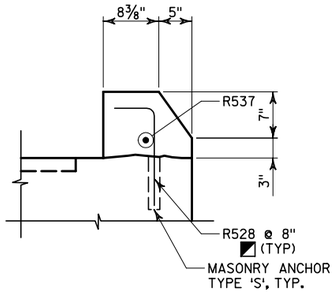
STATE PROJECT NUMBER

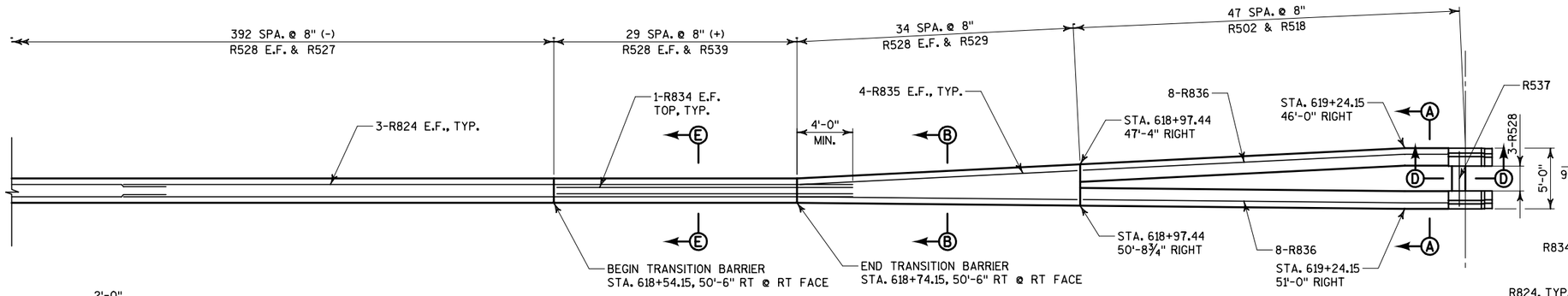
1060-05-75



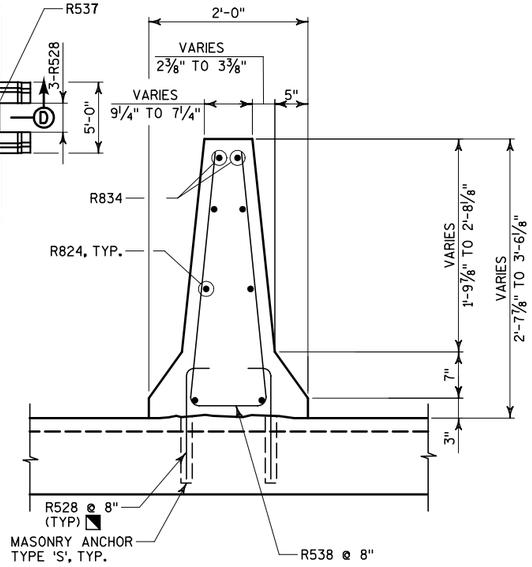
PARTIAL PLAN



SECTION D-D

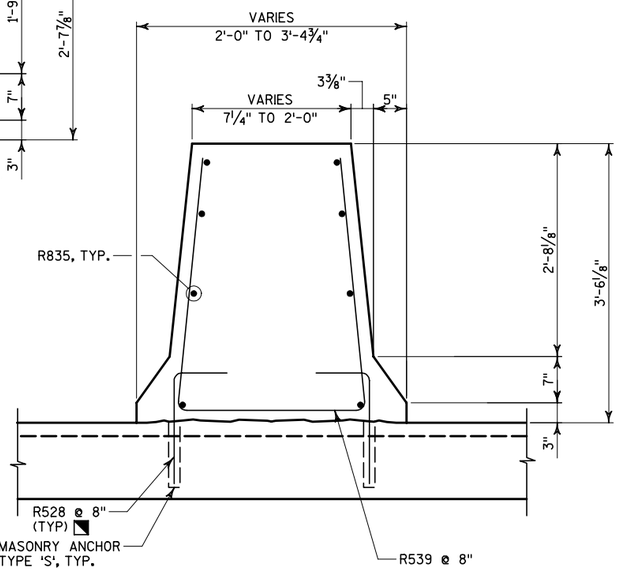


PARTIAL PLAN

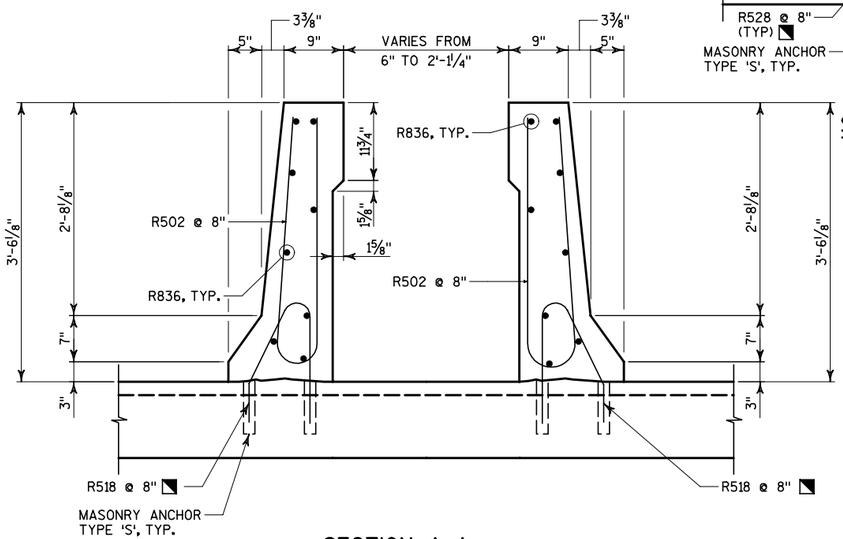


SECTION E-E

SECTION C-C



SECTION B-B



SECTION A-A

LEGEND

CONC. MASONRY ANCHOR, TYPE 'S', NO. 5 BAR (5/8 ") MIN. EMBEDMENT INTO DECK = 5"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

SLOPE FACE BARRIER DETAILS 2

SHEET 142 OF 396

3010

8

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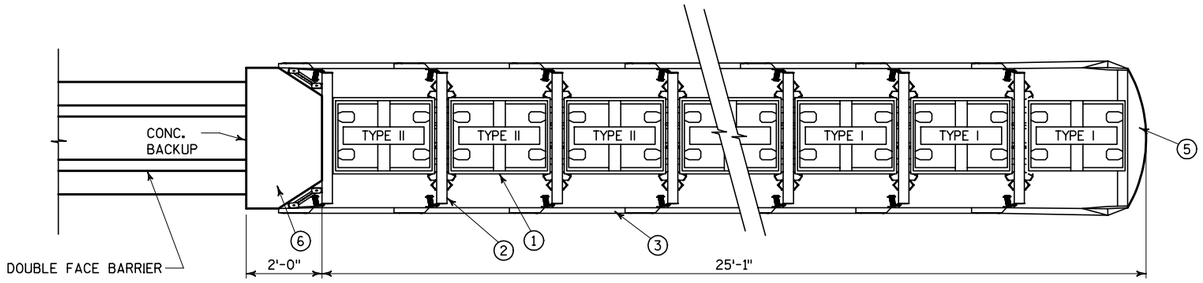
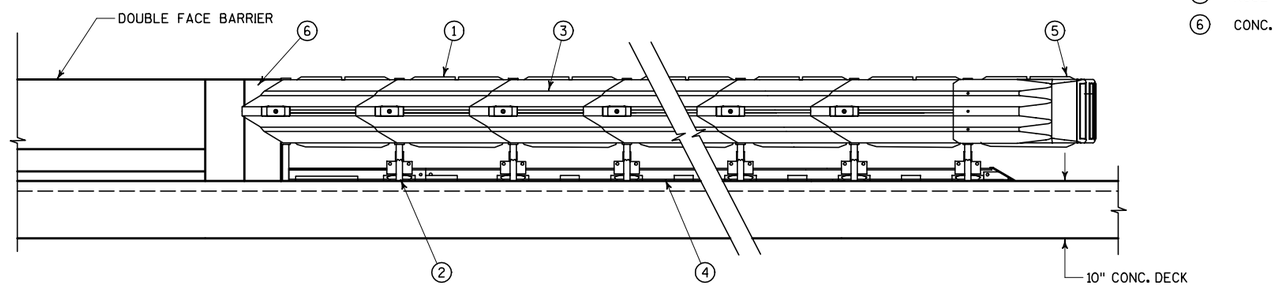
STATE PROJECT NUMBER
1060-05-75



PLAN

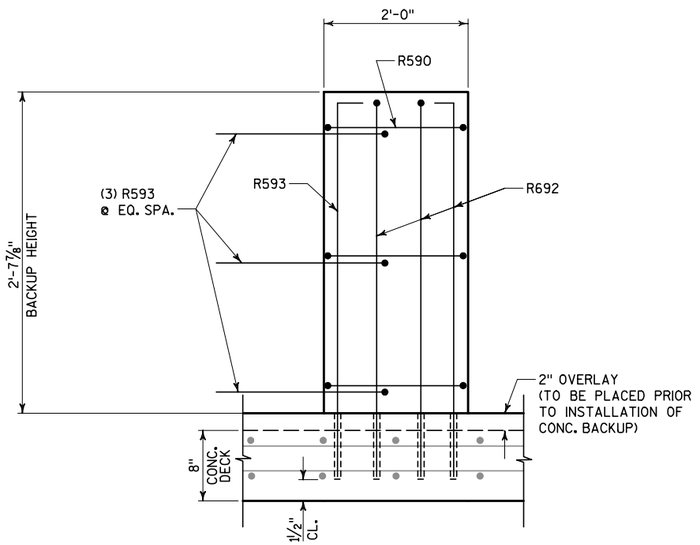


ELEVATION

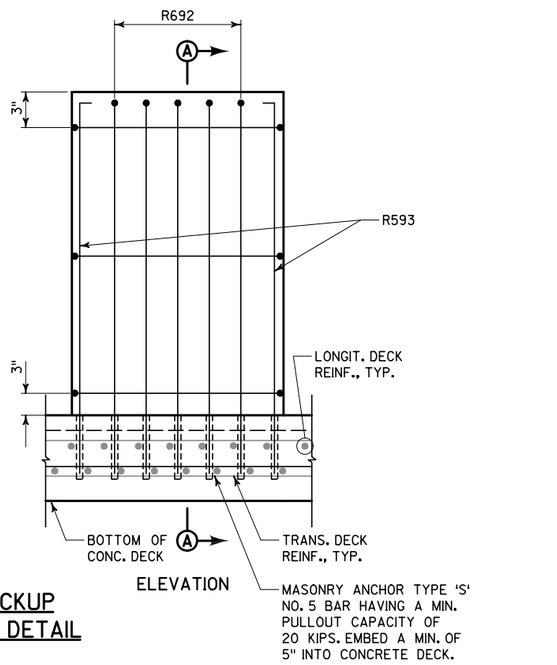
LEGEND

1. QUADGUARD CARTRIDGE
2. DIAPHRAGM
3. FENDER PANEL
4. MONORAIL
5. NOSE ASSEMBLY
6. CONC. BACKUP

30" CRASH CUSHION DETAIL

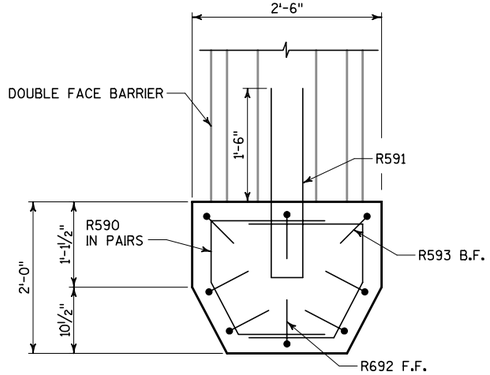


SECTION A-A



ELEVATION

CONCRETE BACKUP REINFORCEMENT DETAIL



PLAN

NOTES

DESIGN CRASH CUSHION FOR MAX. SPEED OF 65 MPH.

CRASH CUSHION MANUFACTURER TO PROVIDE ANCHOR BOLT LAYOUT AND DIMENSIONS.

CRASH CUSHION TO BE INSTALLED PER MANUFACTURER'S PLANS AND INSTALLATION INSTRUCTIONS.

DIMENSIONS TO BE VERIFIED BY MANUFACTURER.

CONCRETE BACKUP TO BE INSTALLED AFTER THE 2" OVERLAY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

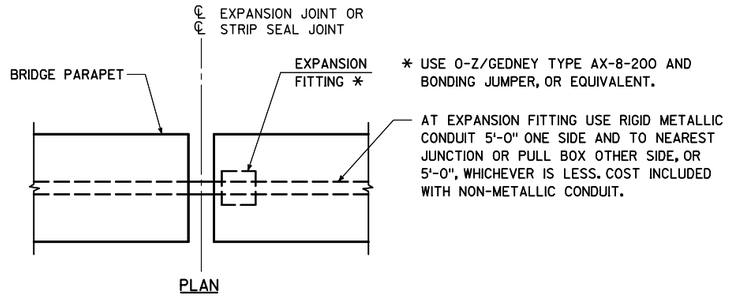
30 INCH CRASH CUSHION DETAILS

SHEET 143 OF 396

3011

8

STATE PROJECT NUMBER
1060-05-75



CONDUIT EXPANSION JOINT

(PIERS P10-001, P9-005, AND P6-002)

NOTES

1. SEE SHEETS 3 & 4 FOR GENERAL NOTES.
2. UNLESS INSTALLATION IS EXPLICITLY COVERED BY A SEPARATE PAY ITEM, INSTALLATION OF ALL EMBEDMENTS IS CONSIDERED INCIDENTAL TO PAY ITEM SPV.0090.2040 - PARAPET BRIDGE FREEWAY STRUCTURES.

   SUPPLY OF EMBEDMENTS IS INCLUDED UNDER OTHER PAY ITEMS - SEE QUANTITIES SHEETS.

   SUPPLY OF EXPANSION FITTINGS FOR CONDUIT IS CONSIDERED INCIDENTAL TO THE PAY ITEM FOR THE CONDUIT BEING CONNECTED.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PARAPET DETAILS

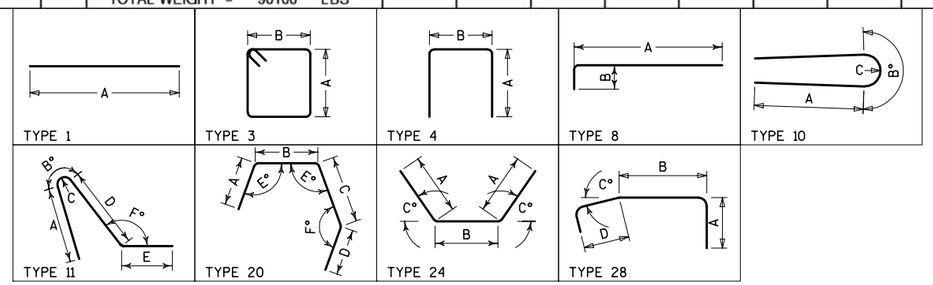
SHEET 144 OF 396

3012

STATE PROJECT NUMBER

1060-05-75

BAR INFORMATION						BAR DIMENSIONS										
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J	LOCATION	REMARKS
PARAPET																
R501	E	690	5'-2"	3718	10	2'-2"	186°	3"							LF PARAPET HAIRPINS	
R502	E	2482	6'-10"	17689	10	3'-0"	184°	3"							HF PARAPET HAIRPINS	
R518	E	786	5'-5"	4441	11	1'-9"	159°	2"	2'-0"	1'-0"	200°				PARAPET VERTICAL	DECK DOWEL
R521	E	24	24'-10"	622	1	24'-10"									PARAPET HORIZONTAL	
R523	E	228	3'-5"	812	1	3'-5"									PARAPET VERTICAL - TRANSITION	
R824	E	311	60'-0"	49822	1	60'-0"									PARAPET HORIZONTAL	
R526	E	4	15'-5"	64	1	15'-5"									PARAPET HORIZONTAL	
R527	E	469	5'-5"	2650	24	2'-4"	11"	96°							PARAPET VERTICAL	
R528	E	1200	1'-4"	1668	8	11"	5"								PARAPET VERTICAL	
R529	E	61	6'-5"	408	24	2'-4"	VARIES	96°							PARAPET VERTICAL	DIM'N. 'B' VARIES FROM 11" TO 2'-11"
R830	E	3	39'-8"	318	1	39'-8"									PARAPET HORIZONTAL	
R831	E	3	35'-0"	280	1	35'-0"									PARAPET HORIZONTAL	
R832	E	3	14'-0"	112	1	14'-0"									PARAPET HORIZONTAL	
R533	E	1	7'-5"	8	1	7'-5"									PARAPET HORIZONTAL	
R834	E	2	23'-9"	127	1	23'-9"									PARAPET HORIZONTAL	
R835	E	8	22'-10"	488	1	22'-10"									PARAPET HORIZONTAL	
R836	E	16	31'-3"	1335	1	31'-3"									PARAPET HORIZONTAL	
R537	E	1	1'-7"	2	1	7'-5"									PARAPET HORIZONTAL	
R538	E	30	6'-4"	197	24	VARIES	11"	96°							PARAPET VERTICAL	DIM'N. 'A' VARIES FROM 3'-2" TO 2'-4"
R539	E	35	7'-10"	286	24	3'-2"	VARIES	96°							PARAPET VERTICAL	DIM'N. 'B' VARIES FROM 11" TO 2'-11"
R442	E	10	10'-1"	67	4	3'-6"	3'-3"								SIGN BASE IN DOUBLE FACE - HORIZ.	
R443	E	10	8'-10"	59	4	3'-0"	3'-0"								SIGN BASE IN DOUBLE FACE - HORIZ.	
R644	E	12	2'-9"	50	1	2'-9"									SIGN BASE IN DOUBLE FACE - VERT.	
R545	E	10	7'-7"	79	4	2'-4"	3'-2"								SIGN BASE IN DOUBLE FACE - VERT.	
R546	E	16	3'-2"	53	8	2'-9"	6"								SIGN BASE IN DOUBLE FACE - VERT.	
R590	E	6	4'-0"	25	20	1'-2"	9"	10"	1'-6"	135°	90°				CRASH CUSHION	
R591	E	3	5'-3"	16	4	2'-6"	5"								CRASH CUSHION	
R692	E	5	3'-4"	25	8	2'-6"	10"								CRASH CUSHION	DECK DOWEL
R593	E	3	3'-3"	10	8	2'-6"	8"								CRASH CUSHION	DECK DOWEL
HF PARAPET LIGHT POLE BASE																
R504	E	42	6'-3"	274	4	2'-2"	2'-1"								LIGHT POLE BASE HORIZONTAL TIES	
R505	E	30	2'-5"	76	9	1'-3"	1'-3"	90°							LIGHT POLE BASE END FACE	
R506	E	42	7'-3"	318	4	2'-8"	2'-1"								LIGHT POLE BASE HORIZONTAL TIES	
R507	E	60	8'-1"	506	4	3'-0"	2'-3"								LIGHT POLE BASE VERTICAL TIES	
R508	E	6	10'-0"	63	3	2'-3"	2'-3"								LIGHT POLE BASE STIRRUPS	
R409	E	48	3'-7"	115	4	1'-0"	1'-8"								LIGHT POLE BASE SIDE FACE	DIM'N. 'B' VARIES FROM 1'-5" TO 1'-11" IN 3 STEPS OF 2" (2 SETS OF 4 BARS REQ'D)
R510	E	24	2'-9"	69	1	2'-9"									LIGHT POLE BASE SIDE FACE	
HF PARAPET SIGN BRIDGE BASE																
R612	E	64	11'-7"	1113	4	4'-0"	3'-9"								SIGN BRIDGE BASE HORIZONTAL TIES	
R613	E	40	6'-5"	386	28	1'-4"	4'-4"	76°	10"						SIGN BRIDGE BASE TOP BARS	
R414	E	80	5'-6"	294	4	1'-4"	2'-11"								SIGN BRIDGE PEDESTALS	
R615	E	72	10'-1"	1090	4	3'-2"	3'-11"								SIGN BRIDGE BASE VERTICAL TIES	
R417	E	32	5'-1" *	109	4	1'-4"	2'-6" *								SIGN BRIDGE BASE SIDE FACE	DIM'N. 'B' VARIES FROM 2'-0 3/4" TO 2'-10 1/2" IN 3 STEPS OF 3 1/4" (SETS OF 4 BARS)
R519	E	24	4'-6"	113	1	4'-6"									SIGN BRIDGE BASE SIDE FACE	
R520	E	4	12'-10"	54	3	2'-0"	3'-11"								SIGN BRIDGE BASE STIRRUPS	
R441	E	32	4'-3"	91	4	1'-4"	1'-8" *								SIGN BRIDGE BASE SIDE FACE	DIM'N. 'B' VARIES FROM 1'-2 1/4" TO 2'-0" IN 3 STEPS OF 3 1/4" (SETS OF 4 BARS)
		TOTAL WEIGHT = 90100 LBS														



NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEETS 3 & 4 FOR ADDITIONAL INFORMATION
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. * DENOTES AVERAGE DIMENSIONS FOR BAR SERIES. SEE THE 'REMARKS' COLUMN FOR COMPLETE SERIES INFORMATION.
7. ALL REINFORCEMENT IN THIS TABLE IS INCLUDED UNDER PAY ITEMS SPV.0090.2040 AND SPV.0090.2045 - PARAPET BRIDGE TYPE LF AND HF.

   NO SEPARATE PAYMENT WILL BE MADE - QUANTITIES ARE PROVIDED FOR INFORMATION ONLY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (002)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PARAPET REINFORCEMENT SCHEDULE

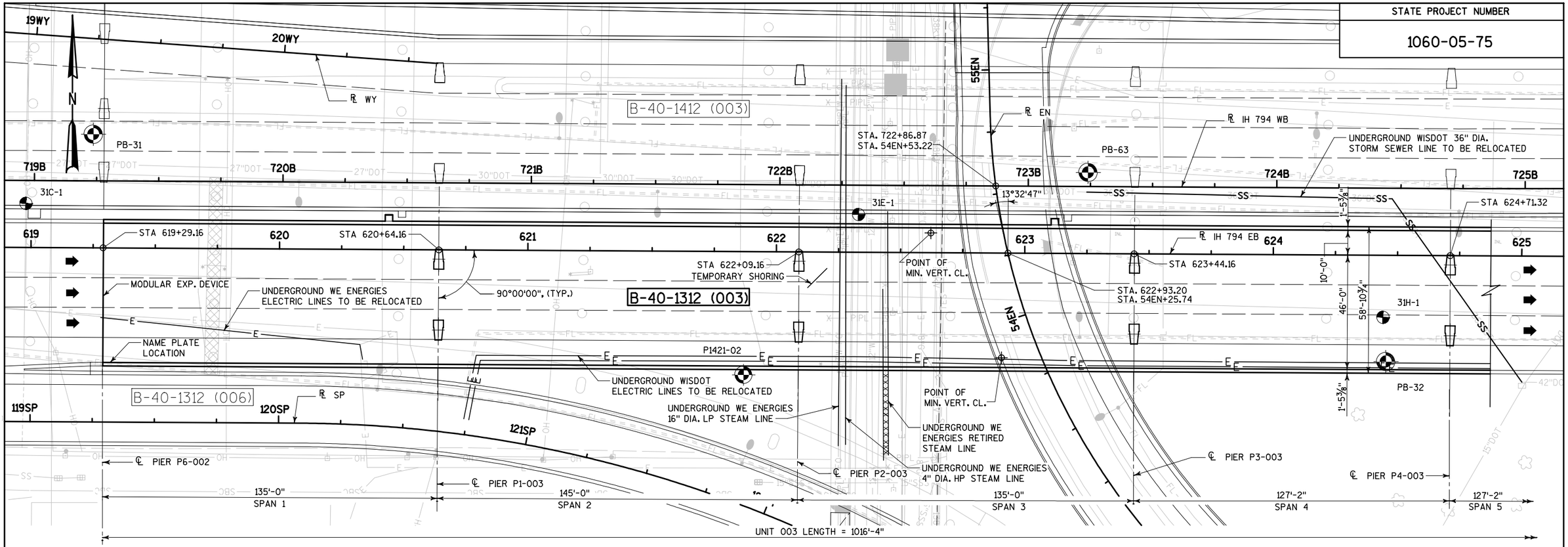
SHEET 145 OF 396

3013

8

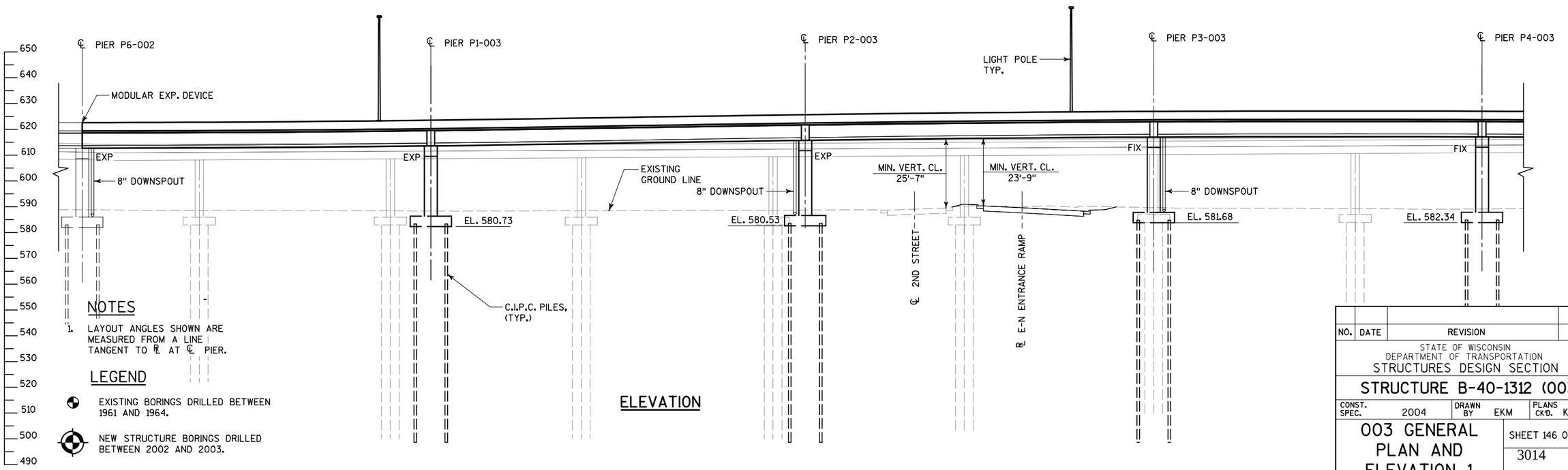
STATE PROJECT NUMBER

1060-05-75



PLAN

(UNIT 003: 8 SPAN 72" PRESTRESSED GIRDER)



ELEVATION

NOTES

1. LAYOUT ANGLES SHOWN ARE MEASURED FROM A LINE TANGENT TO ℄ AT ℄ PIER.

LEGEND

EXISTING BORINGS DRILLED BETWEEN 1961 AND 1964.

NEW STRUCTURE BORINGS DRILLED BETWEEN 2002 AND 2003.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

003 GENERAL PLAN AND ELEVATION 1

SHEET 146 OF 396

3014

8

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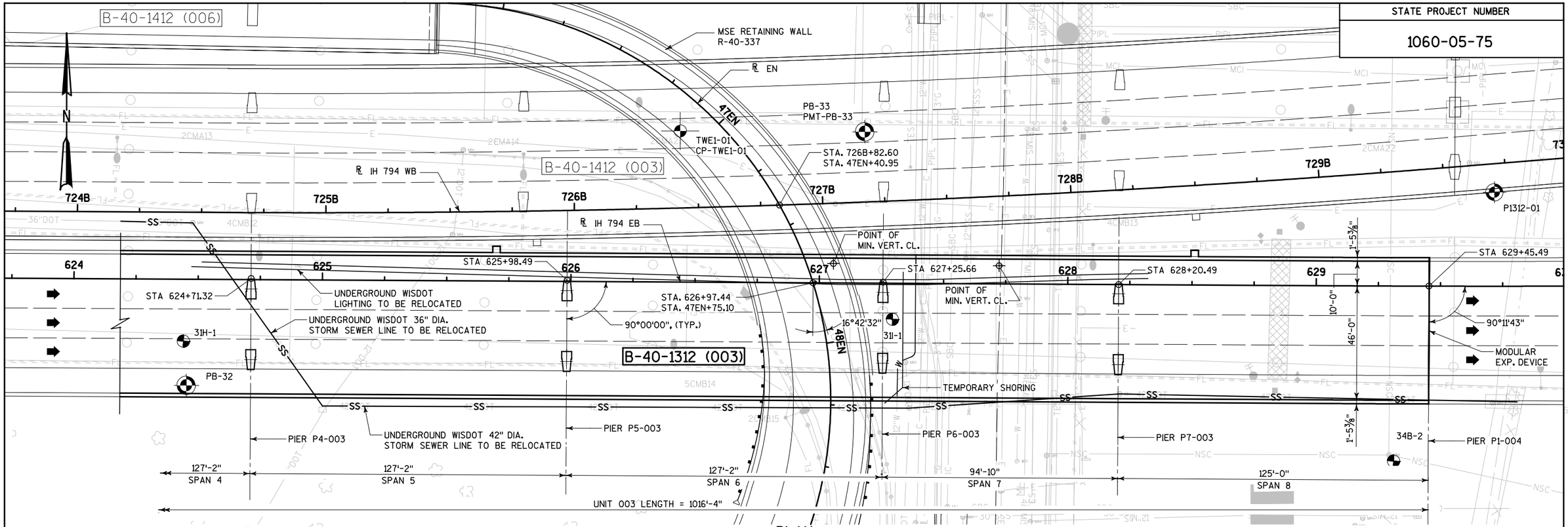
STATE PROJECT NUMBER

1060-05-75



PLAN

(UNIT 003: 8 SPAN 72" PRESTRESSED GIRDER)

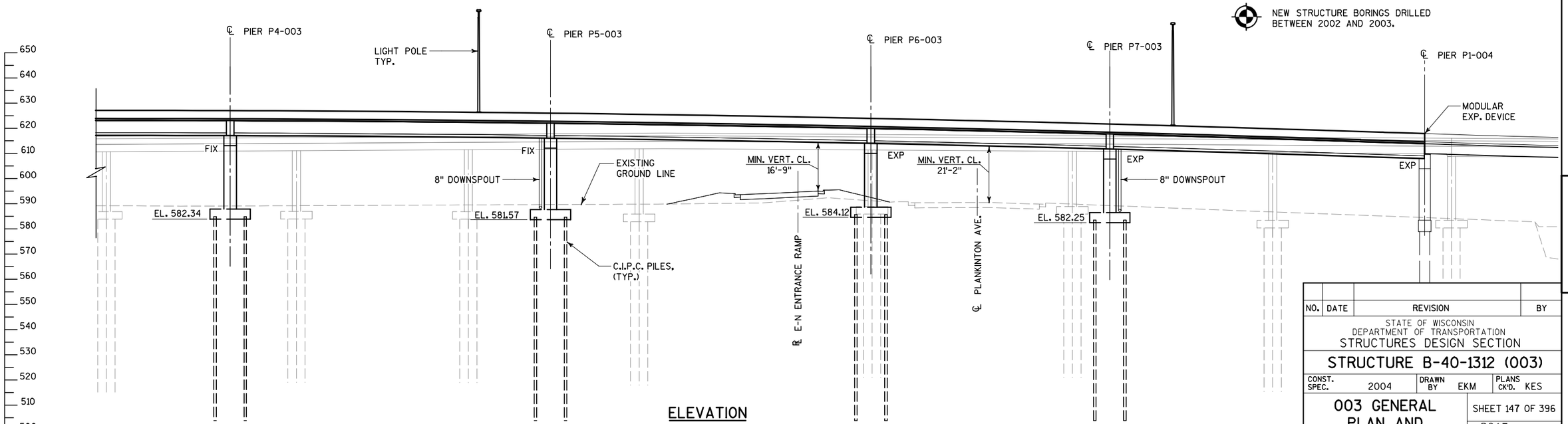
NOTES

1. LAYOUT ANGLES SHOWN ARE MEASURED FROM A LINE TANGENT TO ℜ AT ℄ PIER.

LEGEND

EXISTING BORINGS DRILLED BETWEEN 1961 AND 1964.

NEW STRUCTURE BORINGS DRILLED BETWEEN 2002 AND 2003.



ELEVATION

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

003 GENERAL PLAN AND ELEVATION 2

SHEET 147 OF 396

3015

8

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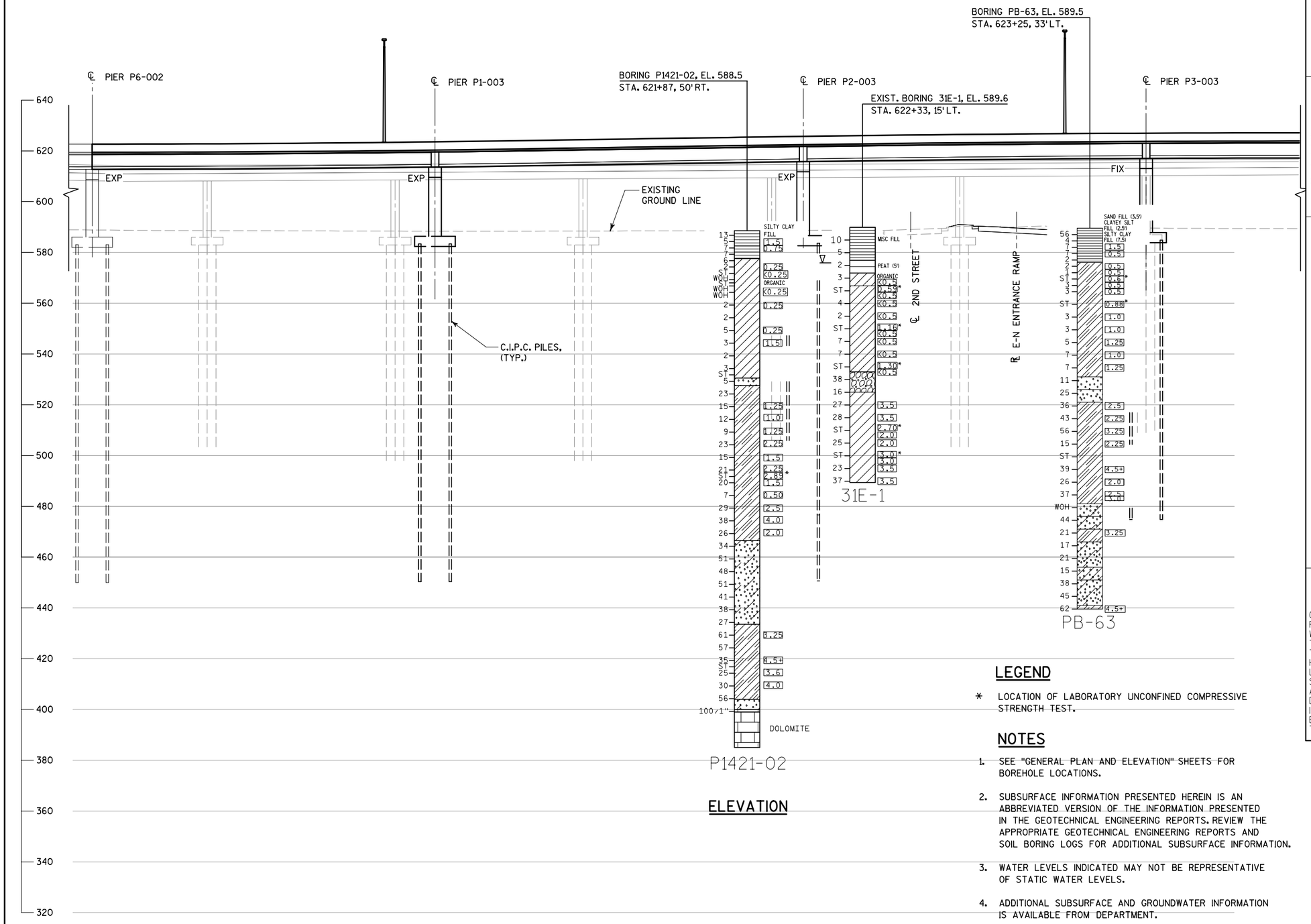


ELEVATION

LEGEND

* LOCATION OF LABORATORY UNCONFINED COMPRESSIVE STRENGTH TEST.

NOTES

1. SEE "GENERAL PLAN AND ELEVATION" SHEETS FOR BOREHOLE LOCATIONS.
2. SUBSURFACE INFORMATION PRESENTED HEREIN IS AN ABBREVIATED VERSION OF THE INFORMATION PRESENTED IN THE GEOTECHNICAL ENGINEERING REPORTS. REVIEW THE APPROPRIATE GEOTECHNICAL ENGINEERING REPORTS AND SOIL BORING LOGS FOR ADDITIONAL SUBSURFACE INFORMATION.
3. WATER LEVELS INDICATED MAY NOT BE REPRESENTATIVE OF STATIC WATER LEVELS.
4. ADDITIONAL SUBSURFACE AND GROUNDWATER INFORMATION IS AVAILABLE FROM DEPARTMENT.

STATE PROJECT NUMBER

1060-05-75

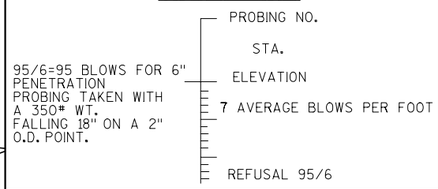
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

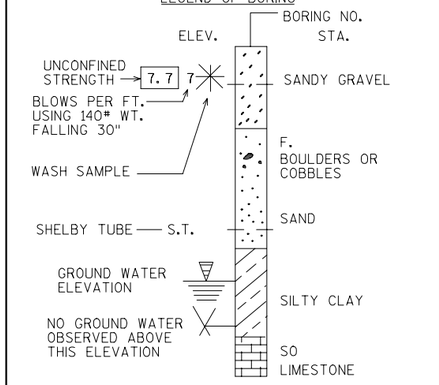
MATERIAL SYMBOLS

TOPSOIL/ FILL · SILT · SANDSTONE
SAND · PEAT · LIMESTONE
GRAVEL · CLAY · IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	2004	DRAWN BY	DJS	PLANS CK'D.	KES

SUBSURFACE EXPLORATION UNIT 003

SHEET 148 OF 396

3016

EXIST. BORING 31H-1, EL. 589.1
STA. 624+44, 25' RT. ACTUAL
STA. 624+54 SHOWN

EXIST. BORING PB-32, EL. 588.6
STA. 624+45, 43' RT. ACTUAL
STA. 624+85 SHOWN

℄ PIER P4-003

℄ PIER P5-003

BORING TWE1-01, EL. 590.1
STA. 626+44, 61' L

BORING PB-33, EL. 589.3
STA. 627+18, 61' L

℄ PIER P6-003

EXIST. BORING 31I-1, EL. 591.1
STA. 627+29, 25' RT.

℄ PIER P7-003

EXIST. BORING 34B-2, EL. 585.6
STA. 629+31, 71' RT.

FIX

FIX

EXP

EXP

EXISTING GROUND LINE

℄ E-N ENTRANCE RAMP

℄ PLANKINTON AVE.

C.I.P.C. PILES, (TYP.)

640
620
600
580
560
540
520
500
480
460
440
420
400
380
360
340
320

31H-1

PB-32

TWE1-01

PB-33

31I-1

34B-2

ELEVATION

LEGEND

* LOCATION OF LABORATORY UNCONFINED COMPRESSIVE STRENGTH TEST.

NOTES

1. SEE "GENERAL PLAN AND ELEVATION" SHEETS FOR BOREHOLE LOCATIONS.
2. SUBSURFACE INFORMATION PRESENTED HEREIN IS AN ABBREVIATED VERSION OF THE INFORMATION PRESENTED IN THE GEOTECHNICAL ENGINEERING REPORTS. REVIEW THE APPROPRIATE GEOTECHNICAL ENGINEERING REPORTS AND SOIL BORING LOGS FOR ADDITIONAL SUBSURFACE INFORMATION.
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STATE PROJECT NUMBER

1060-05-75

ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

MATERIAL SYMBOLS

TOPSOIL/ FILL · SILT · SANDSTONE
SAND · PEAT · LIMESTONE
GRAVEL · CLAY · IGNEOUS ROCK

LEGEND OF PROBING

PROBING NO.
STA.
ELEVATION
7 AVERAGE BLOWS PER FOOT
REFUSAL 95/6

95/6=95 BLOWS FOR 6" PENETRATION
PROBING TAKEN WITH A 350# WT. FALLING 18" ON A 2" O.D. POINT.

LEGEND OF BORING

BORING NO.
STA.
ELEV.
UNCONFINED STRENGTH → 7.7
BLOWS PER FT. USING 140# WT. FALLING 30"
WASH SAMPLE
SHELBY TUBE — S.T.
GROUND WATER ELEVATION
NO GROUND WATER OBSERVED ABOVE THIS ELEVATION
SANDY GRAVEL
F. BOULDERS OR COBBLES
SAND
SILTY CLAY
SO LIMESTONE

UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

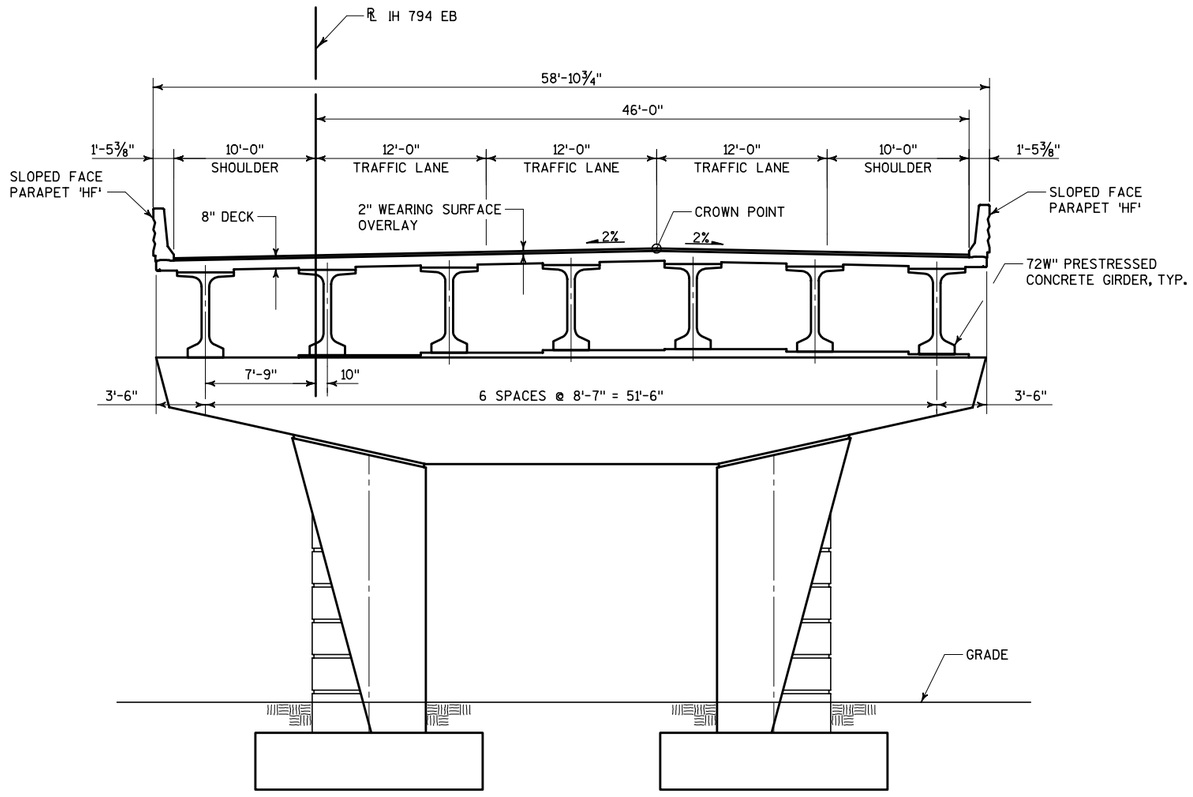
CONST. SPEC.	2004	DRAWN BY	DJS	PLANS CK'D.	KES

SUBSURFACE EXPLORATION UNIT 003

SHEET 149 OF 396

3017

STATE PROJECT NUMBER
1060-05-75



TYPICAL SECTION IN SPAN

SPANS 1 THRU 8, LOOKING EAST

NOTES

1. DIMENSIONS ARE MEASURED ALONG A LINE RADIAL TO THE ℄ UNLESS OTHERWISE NOTED.
2. FOR UTILITY INFORMATION, REFER TO DECK CROSS SECTIONS CONTAINED LATER IN THIS SET.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

TYPICAL SECTION

SHEET 150 OF 396

3018

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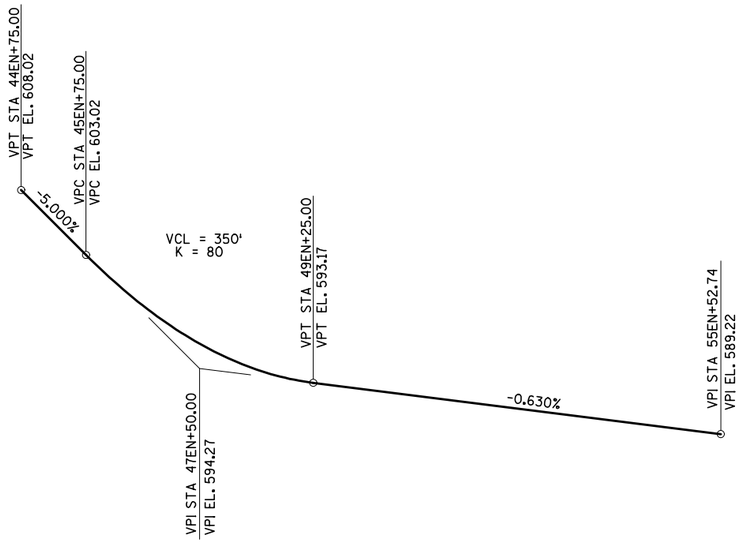
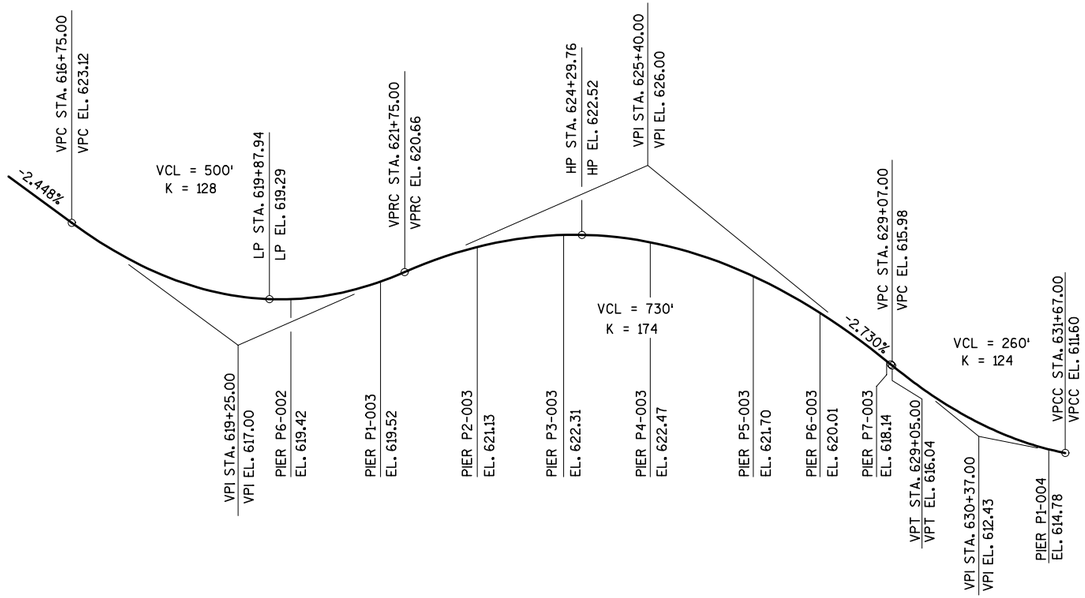
STATE PROJECT NUMBER
1060-05-75



PROFILE GRADE LINE - ℄ EN

SUBSTRUCTURE DATA

UNIT	STATION	SKEW
P7-002	STA 619+29.16	0° 0' 0"
P1-003	STA 620+64.16	0° 0' 0"
P2-003	STA 622+09.16	0° 0' 0"
P3-003	STA 623+44.16	0° 0' 0"
P4-003	STA 624+71.32	0° 0' 0"
P5-003	STA 625+98.49	0° 0' 0"
P6-003	STA 627+25.66	0° 0' 0"
P7-003	STA 628+20.49	0° 0' 0"
P1-004	STA 629+45.49	0° 11' 43" LHF



PROFILE GRADE LINE - ℄ IH 794 EB

HORIZONTAL CURVE DATA

℄ IH 794 EB

PT = STA. 606+02.85
PC = STA 629+06.46
L = 2303.61

PI = STA 630+76.44
Δ = 1°41'59"
D = 0°30'00"
T = 169.98
L = 339.94
R = 11459.16
E = 1.26
PC = STA 629+06.46
PT = STA 632+46.40

℄ EN

PI = N/A
Δ = 186°11'55"
D = 35°48'36"
T = N/A
L = 519.96
R = 160.00
E = N/A
PC = STA 45EN+74.65
PCC = STA 50EN+94.61

PI = STA 53EN+28.59
Δ = 81°13'55"
D = 21°00'00"
T = 233.98
L = 386.82
R = 272.84
E = 86.59
PCC = STA 50EN+94.61
PT = STA 54EN+81.43

NOTE

FOR SUPERELEVATION, SEE TYPICAL SECTIONS AND / OR DECK CROSS SECTION SHEETS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC. 2004	DRAWN BY RWN	PLANS CK'D. KES

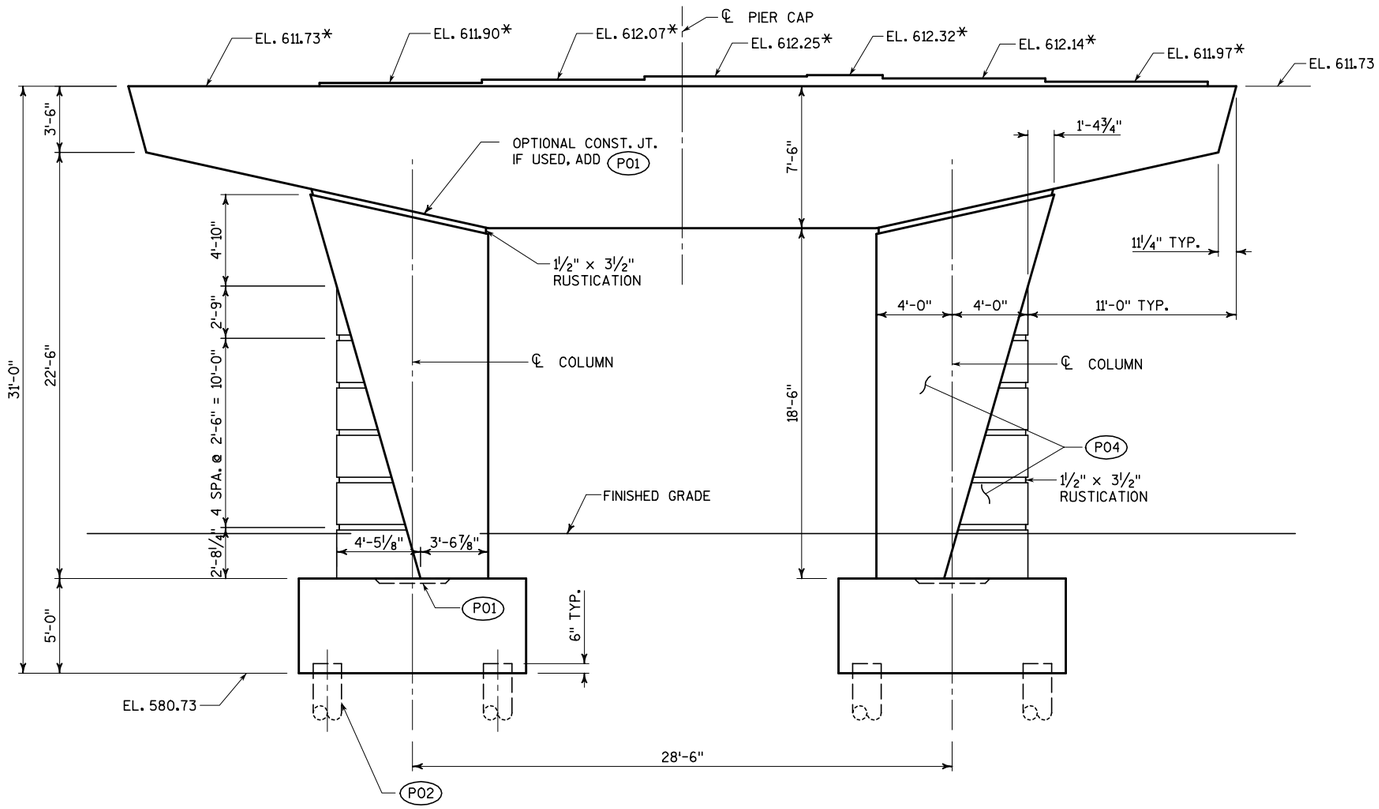
ALIGNMENT

SHEET 151 OF 396

3019

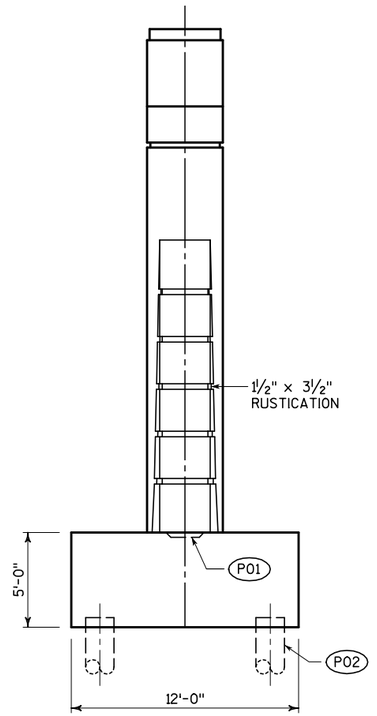
8

STATE PROJECT NUMBER
1060-05-75

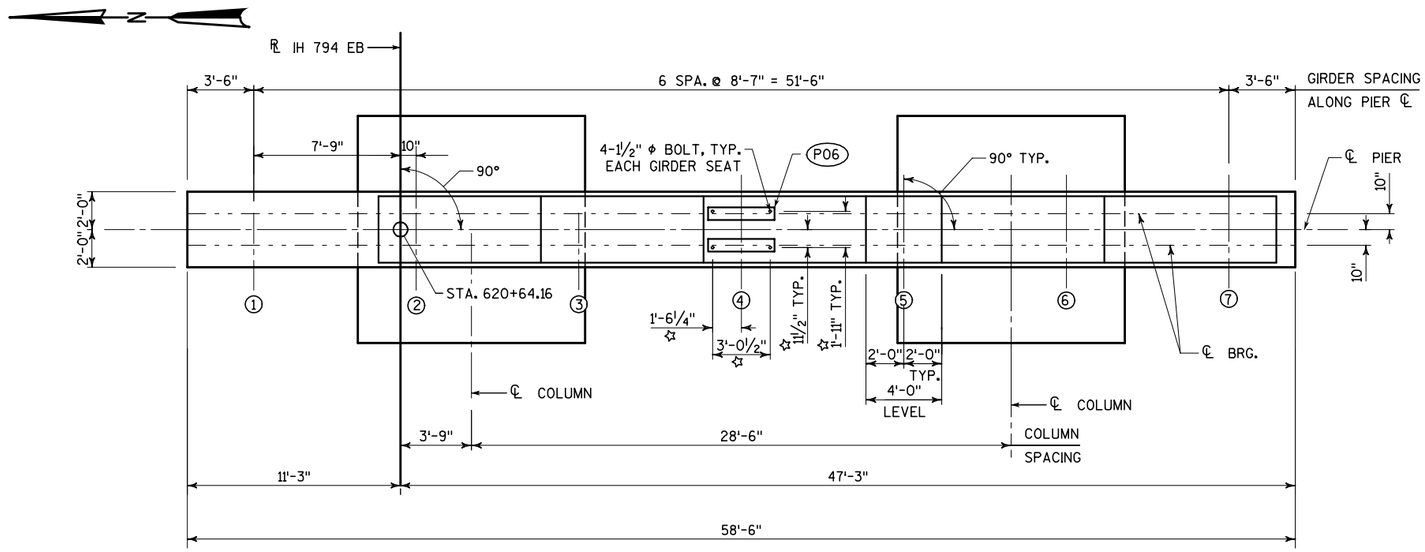


ELEVATION

(LOOKING EAST-SHOWING DIMENSIONS)



END ELEVATION



PLAN

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 205 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 130'.

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 383.

(P06) 1½" X 8" X 3'-6" MASONRY PLATE, SEE "PRESTRESSED GIRDER BEARINGS" SHEET FOR DETAILS.

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

☆ DIMENSIONS ARE GIVEN TO THE ℄ OF ANCHOR BOLTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

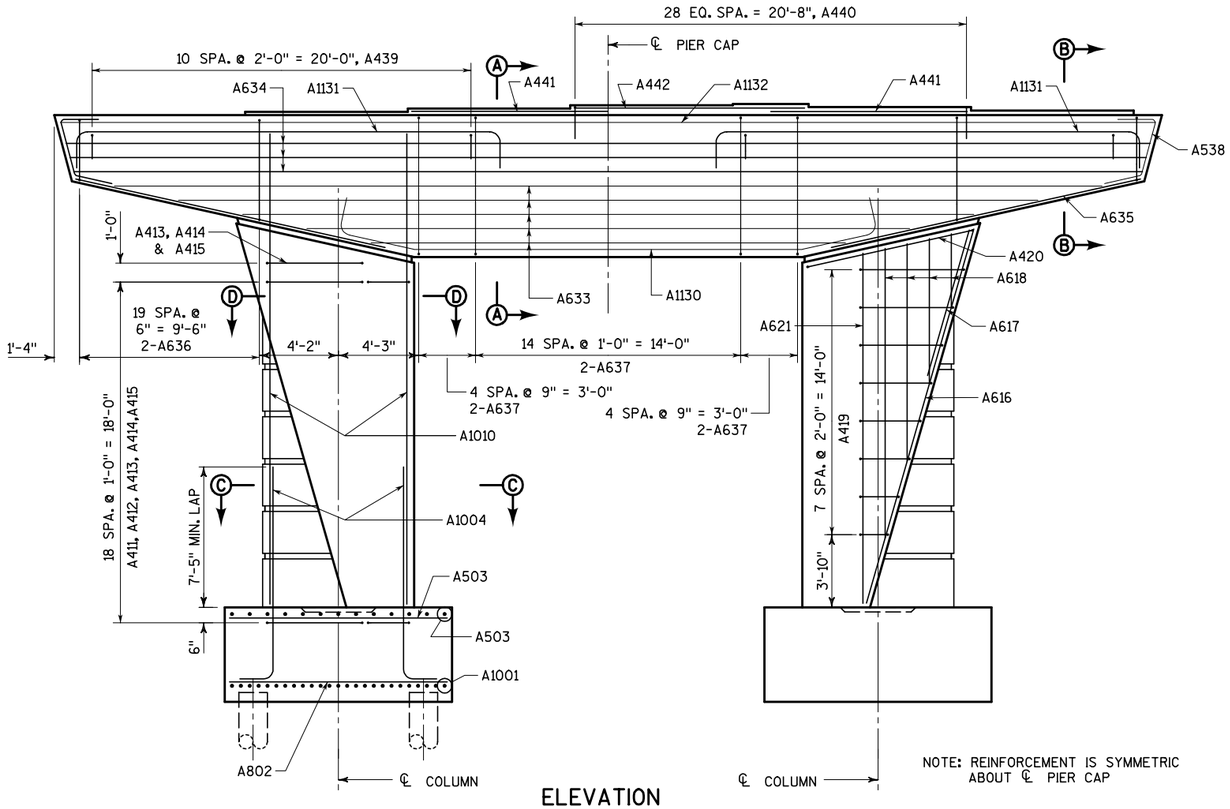
PIER P1-003

SHEET 152 OF 396

3020

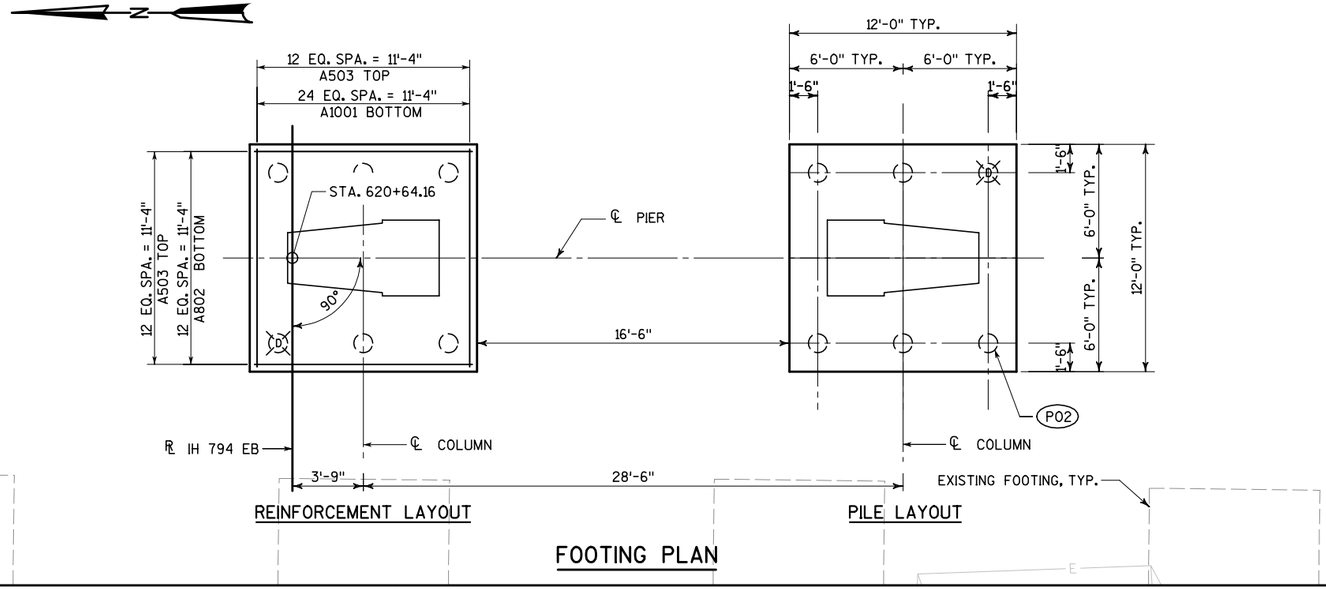
8

STATE PROJECT NUMBER
1060-05-75



ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)



REINFORCEMENT LAYOUT

PILE LAYOUT

FOOTING PLAN

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 205 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 130'.

(D) DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P1-003 REINF. LAYOUT

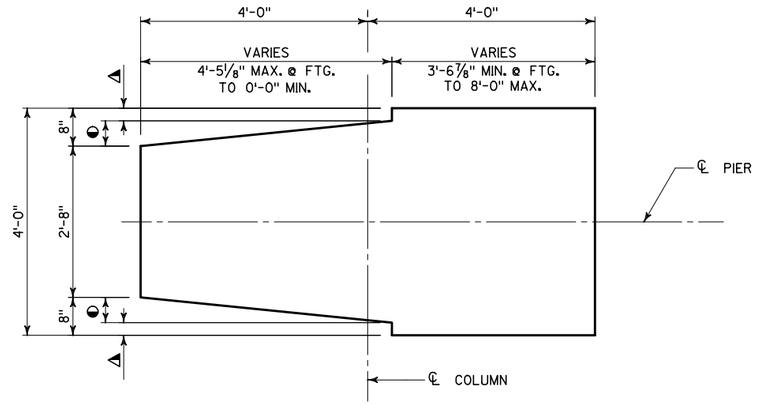
SHEET 153 OF 396

3021

8

STATE PROJECT NUMBER

1060-05-75

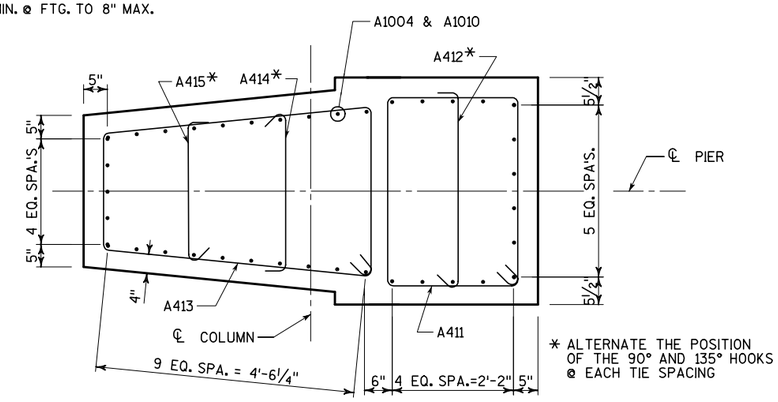


SECTION THRU COLUMN

(SHOWING DIMENSIONS)

◑ VARIES 5¼" MAX. @ FTG. TO 0" MIN.

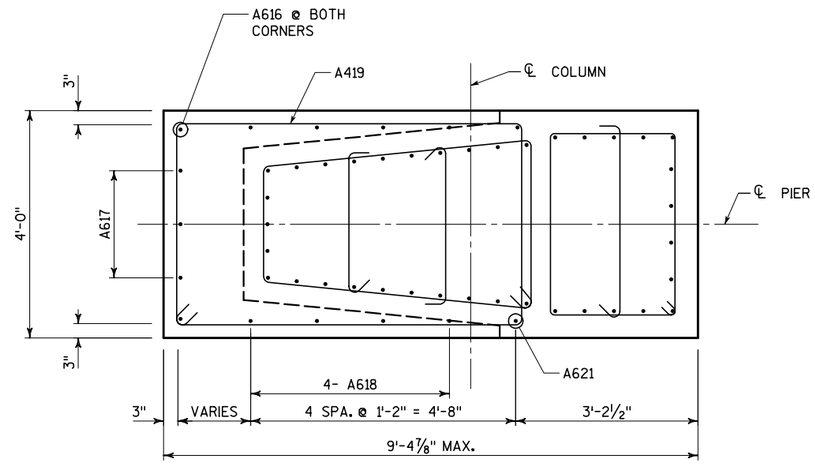
◭ VARIES 2¾" MIN. @ FTG. TO 8" MAX.



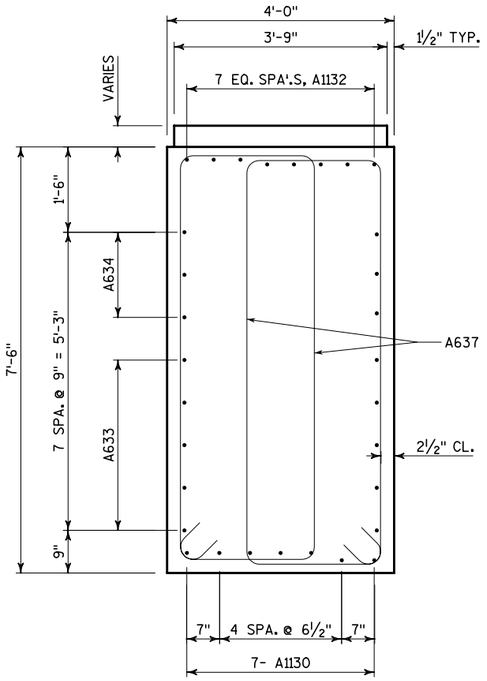
* ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS @ EACH TIE SPACING

SECTION C-C

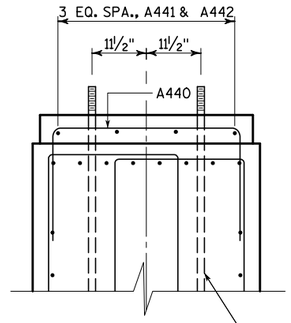
(SHOWING REINFORCEMENT)



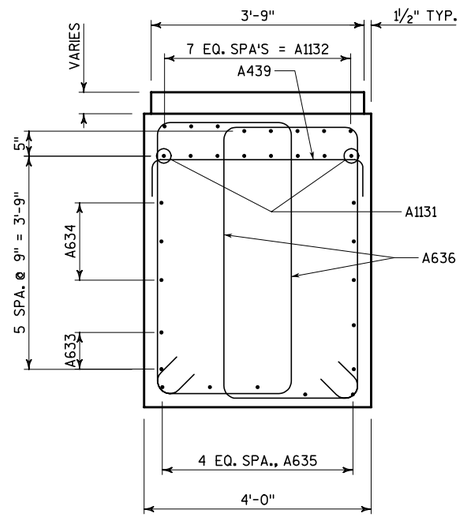
SECTION D-D



SECTION A-A



SECTION THRU GIRDER SEAT



SECTION B-B

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P1-003 DETAILS

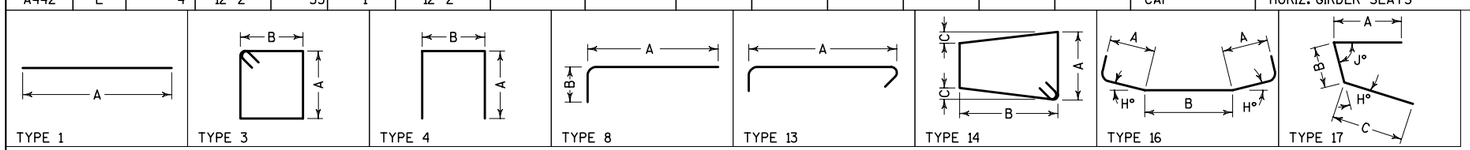
SHEET 154 OF 396

3022

FILE NAME: R:\C\bridges\1312\cds\1312-03C009D.dgn PEN TABLE: \\mtp\FinalDgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:34 Plotted by: emccrigh

STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
A1001		50	11'-6"	2474	1	11'-6"									FOOTING	BOTTOM
A802		26	11'-6"	798	1	11'-6"									FOOTING	BOTTOM
A503		52	11'-6"	624	1	11'-6"									FOOTING	TOP
A1004	E	74	13'-1"	4166	8	11'-7"									FOOTING	DOWEL
A1010	E	74	24'-10"	7908	1	24'-10"									COLUMN	VERTICAL
A411	E	38	11'-10"	300	3	3'-4"	2'-4"								COLUMN	TIES
A412	E	38	4'-0"	102	13	3'-4"									COLUMN	TIES
A413	E	40	15'-1"	403	14	3'-0"	4'-9"	6"							COLUMN	TIES
A414	E	40	3'-4"	89	13	2'-8½"									COLUMN	TIES
A415	E	40	3'-1"	82	13	2'-5"									COLUMN	TIES
A616	E	4	20'-7"	124	1	20'-7"									COLUMN	VERTICAL
A617	E	6	8'-0"	72	1	8'-0"									COLUMN	VERTICAL
A618	E	4 series of 4	15'-3" to 3'-10"	230	1	15'-3" to 3'-10" by 3'-9⅝"									COLUMN	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
A419	E	2 series of 8	18'-7" to 10'-7"	156	3	5'-5½" to 1'-5½" by 6⅞"	3'-7"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
A420	E	2	26'-1"	35	3	9'-2½"	3'-7"								COLUMN	TIES
A621	E	4	18'-6"	111	1	18'-6"									COLUMN	VERTICAL
A1130	E	7	32'-0"	1190	16	4'-2"	20'-5"						12.49		CAP	
A1131	E	16	24'-10"	2111	4	1'-11½"	21'-8"								CAP	TOP
A1132	E	8	57'-10"	2458	1	57'-10"									CAP	TOP
A633	E	2 series of 5	25'-1" to 52'-2"	580	1	25'-1" to 52'-2" by 6'-9¼"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
A634	E	2 series of 3	56'-5" to 57'-3"	512	1	56'-5" to 57'-3" by 5"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
A635	E	10	16'-9"	252	1	16'-9"									CAP	BOTTOM @ ENDS
A636	E	4 series of 20	15'-11" to 11'-9"	1665	3	5'-3" to 3'-2" by 1⅜"	2'-5"								CAP	STIRRUPS @ ENDS, BUNDLE AND TAG EACH SERIES SEPARATELY
A637	E	46	19'-7"	1353	3	7'-1"	2'-5"								CAP	STIRRUPS
A538	E	10	7'-0"	73	17	2'-0"	3'-2"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
A439	E	22	4'-8"	69	4	8"	3'-7"								CAP	TIE
A440	E	29	7'-1"	137	4	2'-0"	3'-4"								CAP	VERTICAL GIRDER SEATS
A441	E	8	10'-4"	55	1	10'-4"									CAP	HORIZ. GIRDER SEATS
A442	E	4	12'-2"	33	1	12'-2"									CAP	HORIZ. GIRDER SEATS



TOTAL NON-EPOXY REINFORCEMENT WT (LB)	3897
TOTAL EPOXY REINFORCEMENT WT (LB)	24267

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

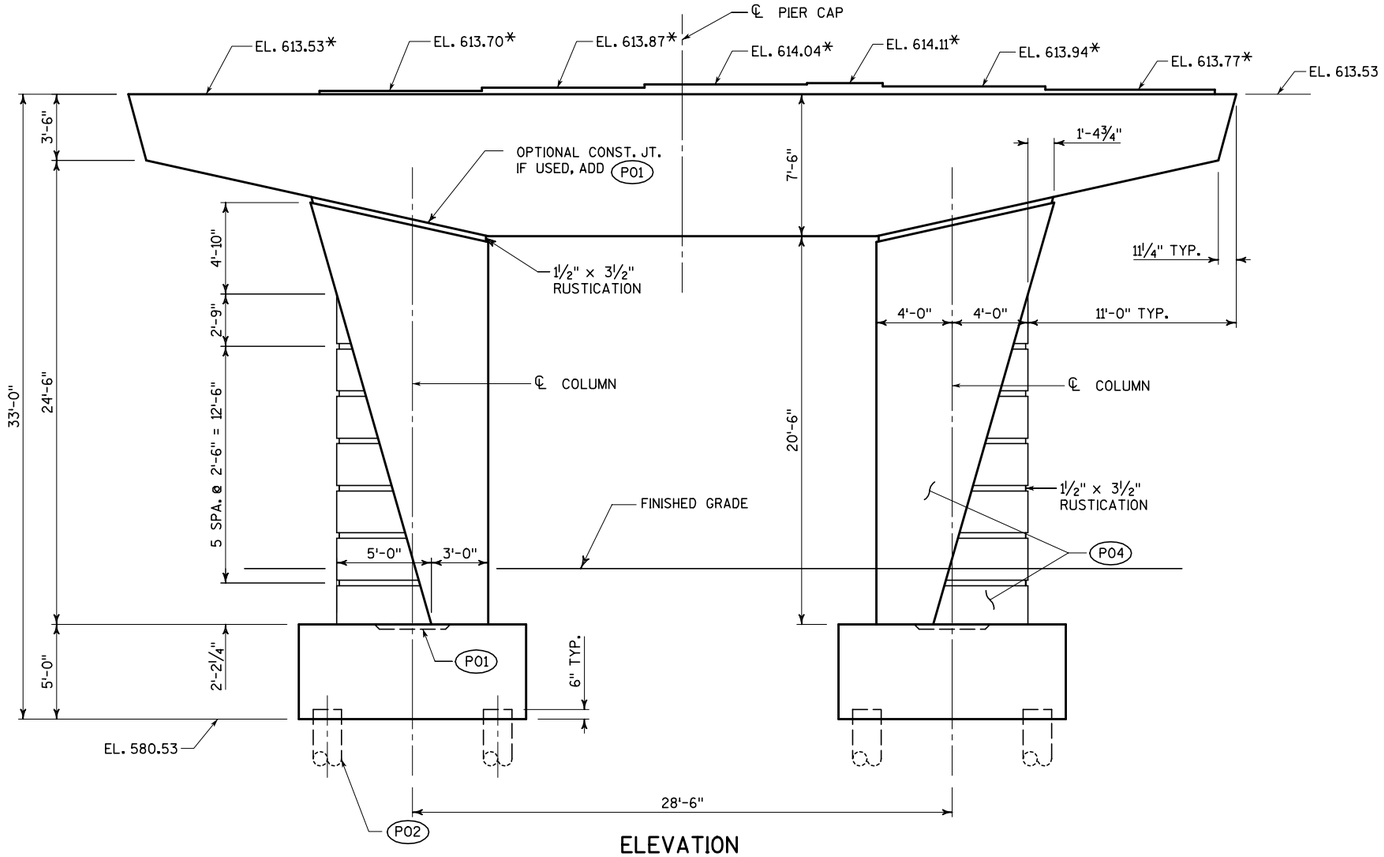
STRUCTURE B-40-1312 (003)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

PIER P1-003
REINF. SCHEDULE

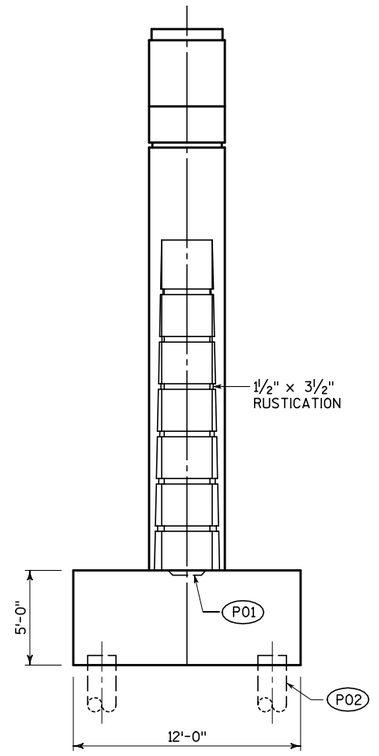
SHEET 155 OF 396
3023

STATE PROJECT NUMBER
1060-05-75

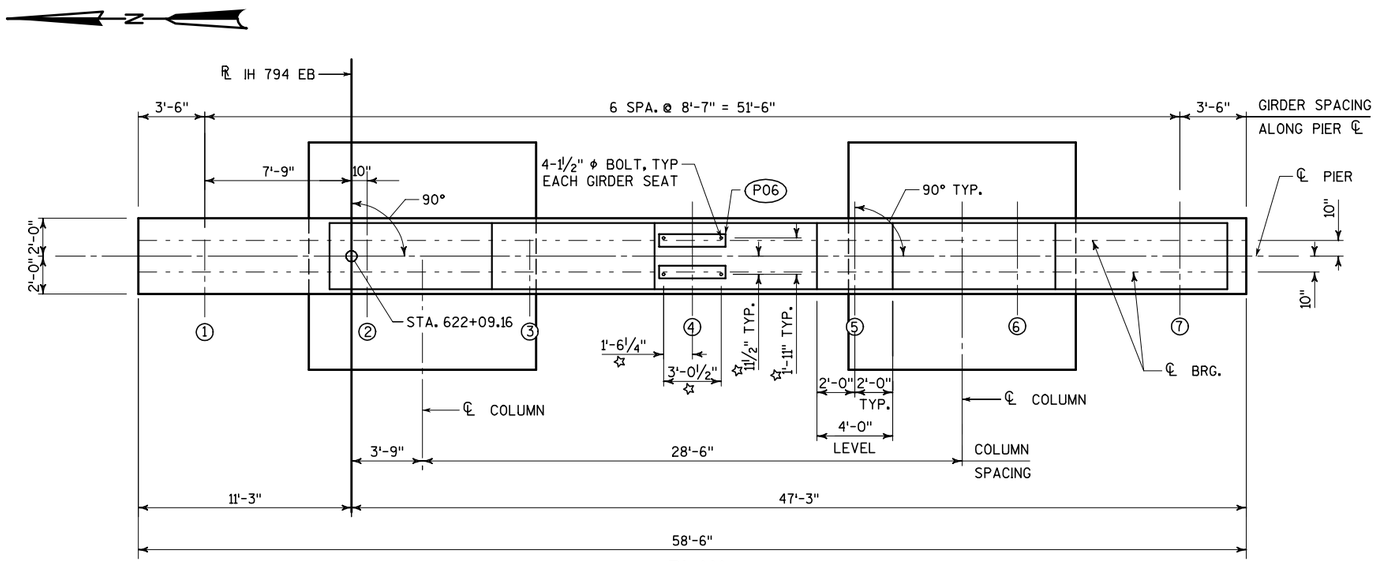


ELEVATION

(LOOKING EAST-SHOWING DIMENSIONS)



END ELEVATION



PLAN

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 200 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 130'.

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 383.

(P06) 1½" THICK MASONRY PLATE, SEE "PRESTRESSED GIRDER BEARINGS" SHEET FOR DETAILS.

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

☆ DIMENSIONS ARE GIVEN TO THE ℄ OF ANCHOR BOLTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P2-003

SHEET 156 OF 396

3024

8

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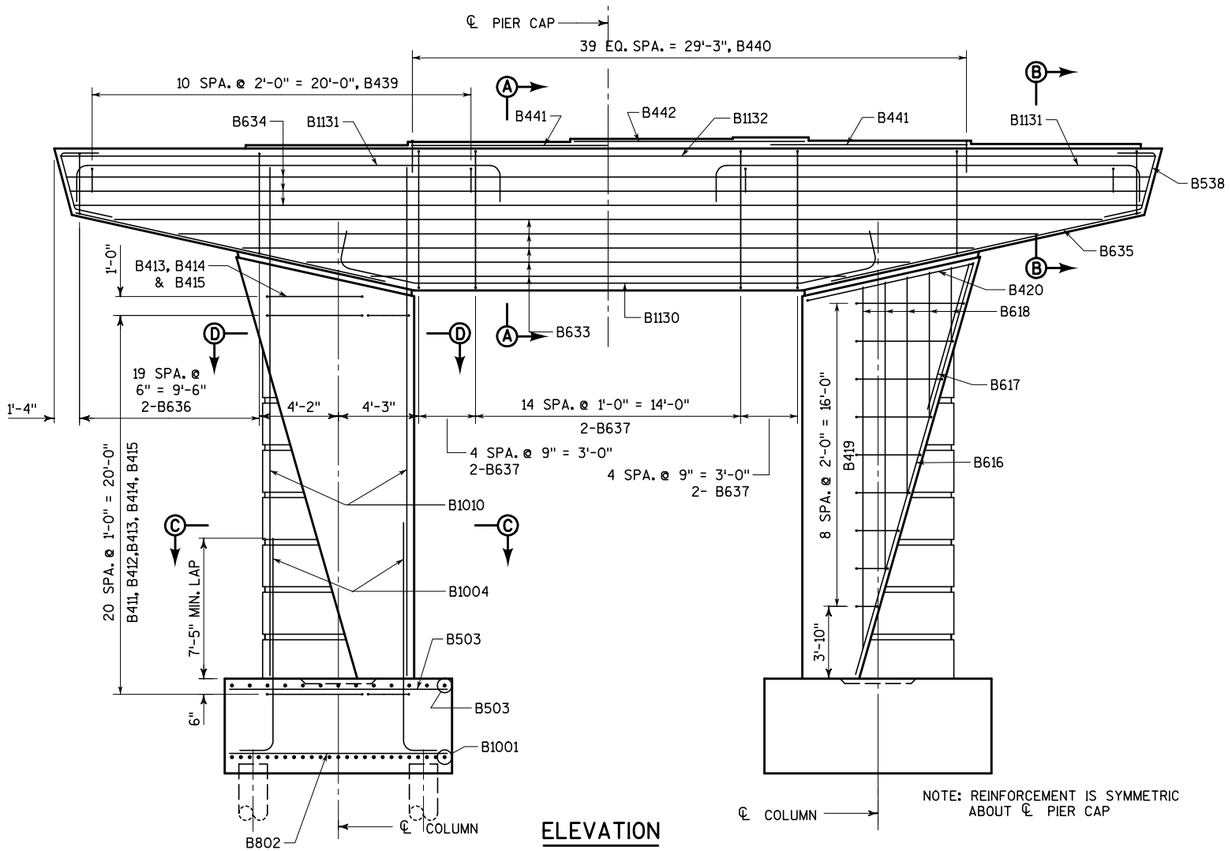
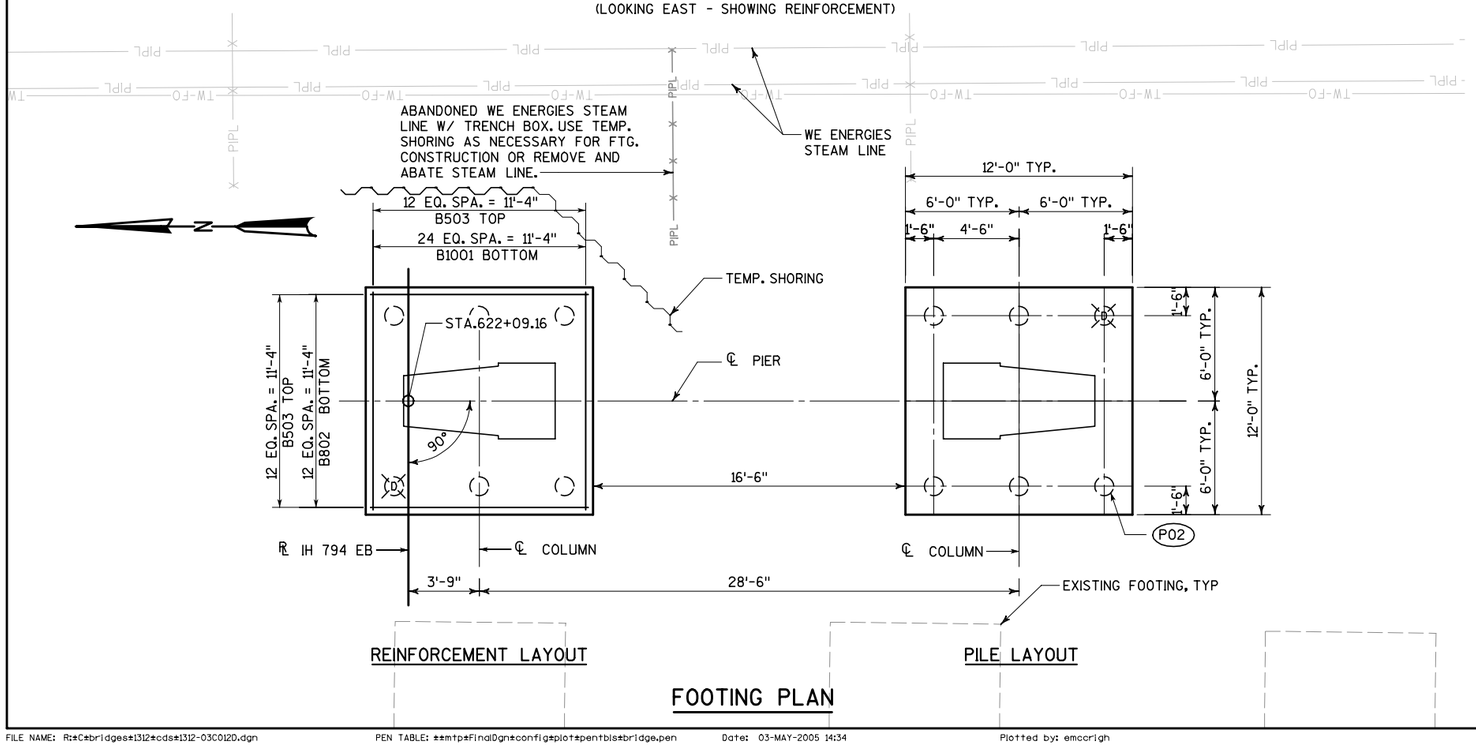
STATE PROJECT NUMBER

1060-05-75



ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)



REINFORCEMENT LAYOUT

PILE LAYOUT

FOOTING PLAN

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 200 TONS ALLOWABLE LOAD. ESTIMATED LENGTH = 130'.

(D) DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

PIER P2-003
REINF. LAYOUT

SHEET 157 OF 396

3025

8

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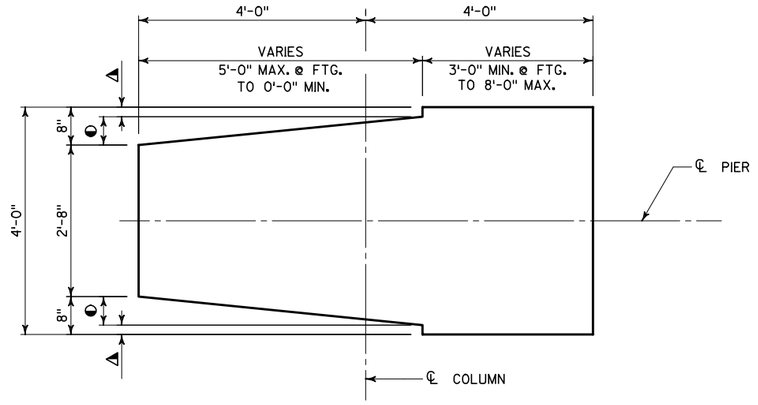
STATE PROJECT NUMBER

1060-05-75

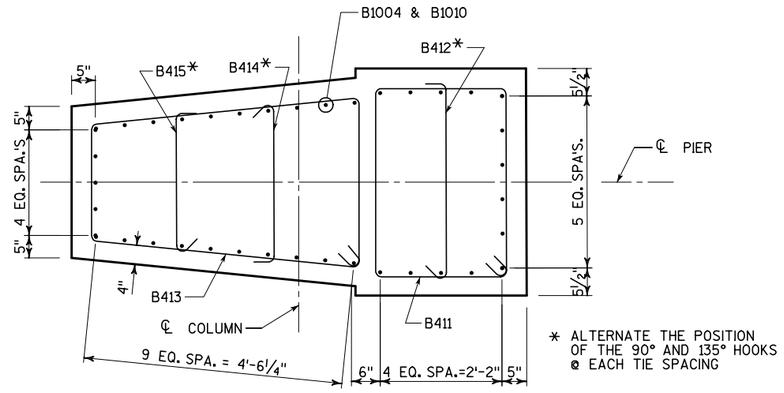


SECTION THRU COLUMN

(SHOWING DIMENSIONS)

◑ VARIES 6" MAX. @ FTG. TO 0" MIN.

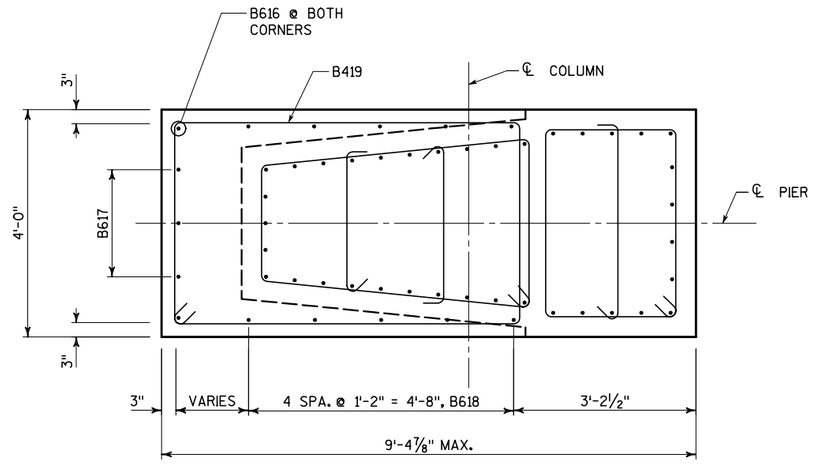
◭ VARIES 2" MIN. @ FTG. TO 8" MAX.



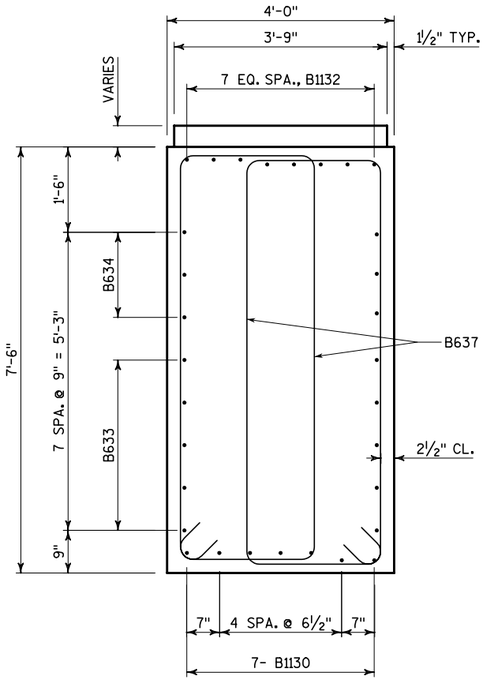
* ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS @ EACH TIE SPACING

SECTION C-C

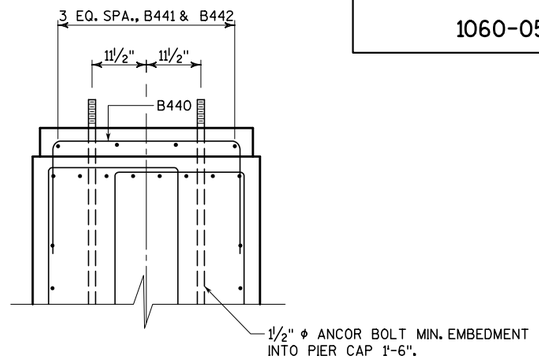
(SHOWING REINFORCEMENT)



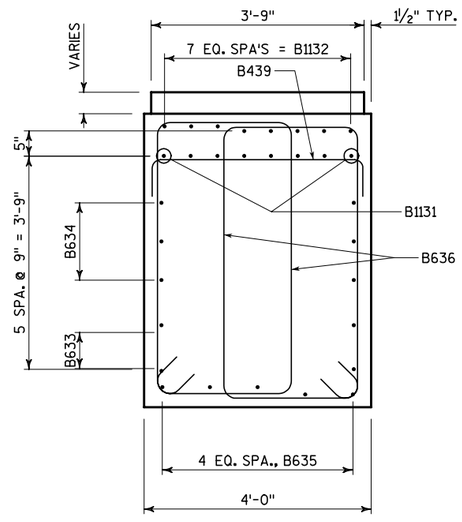
SECTION D-D



SECTION A-A



SECTION THRU GIRDER SEAT



SECTION B-B

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P2-003 DETAILS

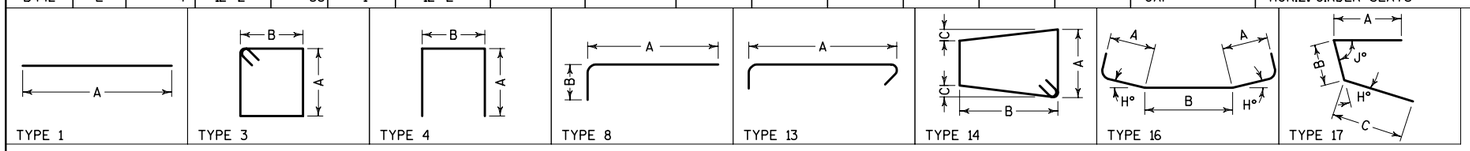
SHEET 158 OF 396

3026

8

STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
B1001		50	11'-6"	2474	1	11'-6"									FOOTING	BOTTOM
B802		26	11'-6"	798	1	11'-6"									FOOTING	BOTTOM
B503		52	11'-6"	624	1	11'-6"									FOOTING	TOP
B1004	E	74	13'-1"	4166	8	11'-7"									FOOTING	DOWEL
B1010	E	74	26'-10"	8545	1	26'-10"									COLUMN	VERTICAL
B411	E	42	11'-10"	332	3	3'-4"	2'-4"								COLUMN	TIES
B412	E	42	4'-0"	112	13	3'-4"									COLUMN	TIES
B413	E	44	15'-1"	443	14	3'-0"	4'-9"	6"							COLUMN	TIES
B414	E	44	3'-4"	98	13	2'-8½"									COLUMN	TIES
B415	E	44	3'-1"	91	13	2'-5"									COLUMN	TIES
B616	E	4	22'-8"	136	1	22'-8"									COLUMN	VERTICAL
B617	E	6	8'-0"	72	1	8'-0"									COLUMN	VERTICAL
B618	E	4 series of 5	19'-1" to 3'-10"	344	1	19'-1" to 3'-10" by 3'-9¾"									COLUMN	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
B419	E	2 series of 9	19'-0" to 9'-10"	173	3	5'-8" to 1'-1" by 6⅞"	3'-7"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
B420	E	2	26'-1"	35	3	9'-2½"	3'-7"								COLUMN	TIES
B1130	E	7	32'-0"	1190	16	4'-2"	20'-5"						12.49		CAP	BOTTOM
B1131	E	16	24'-10"	2111	4	1'-11½"	21'-8"								CAP	TOP
B1132	E	8	57'-10"	2458	1	57'-10"									CAP	TOP
B633	E	2 series of 5	25'-1" to 52'-2"	580	1	25'-1" to 52'-2" by 6'-9¼"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
B634	E	2 series of 3	56'-5" to 57'-3"	512	1	56'-5" to 57'-3" by 5"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
B635	E	10	16'-9"	252	1	16'-9"									CAP	BOTTOM @ ENDS
B636	E	4 series of 20	15'-11" to 11'-9"	1665	3	5'-3" to 3'-2" by 1⅜"	2'-5"								CAP	STIRRUPS @ ENDS, BUNDLE AND TAG EACH SERIES SEPARATELY
B637	E	46	19'-7"	1353	3	7'-1"	2'-5"								CAP	STIRRUPS
B538	E	10	7'-0"	73	17	2'-0"	3'-2"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
B439	E	22	4'-8"	69	4	8"	3'-7"								CAP	TIE
B440	E	40	7'-1"	189	4	2'-0"	3'-4"								CAP	VERTICAL GIRDER SEATS
B441	E	8	10'-4"	55	1	10'-4"									CAP	HORIZ. GIRDER SEATS
B442	E	4	12'-2"	33	1	12'-2"									CAP	HORIZ. GIRDER SEATS



TOTAL NON-EPOXY REINFORCEMENT WT (LB)	3897
TOTAL EPOXY REINFORCEMENT WT (LB)	25089

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

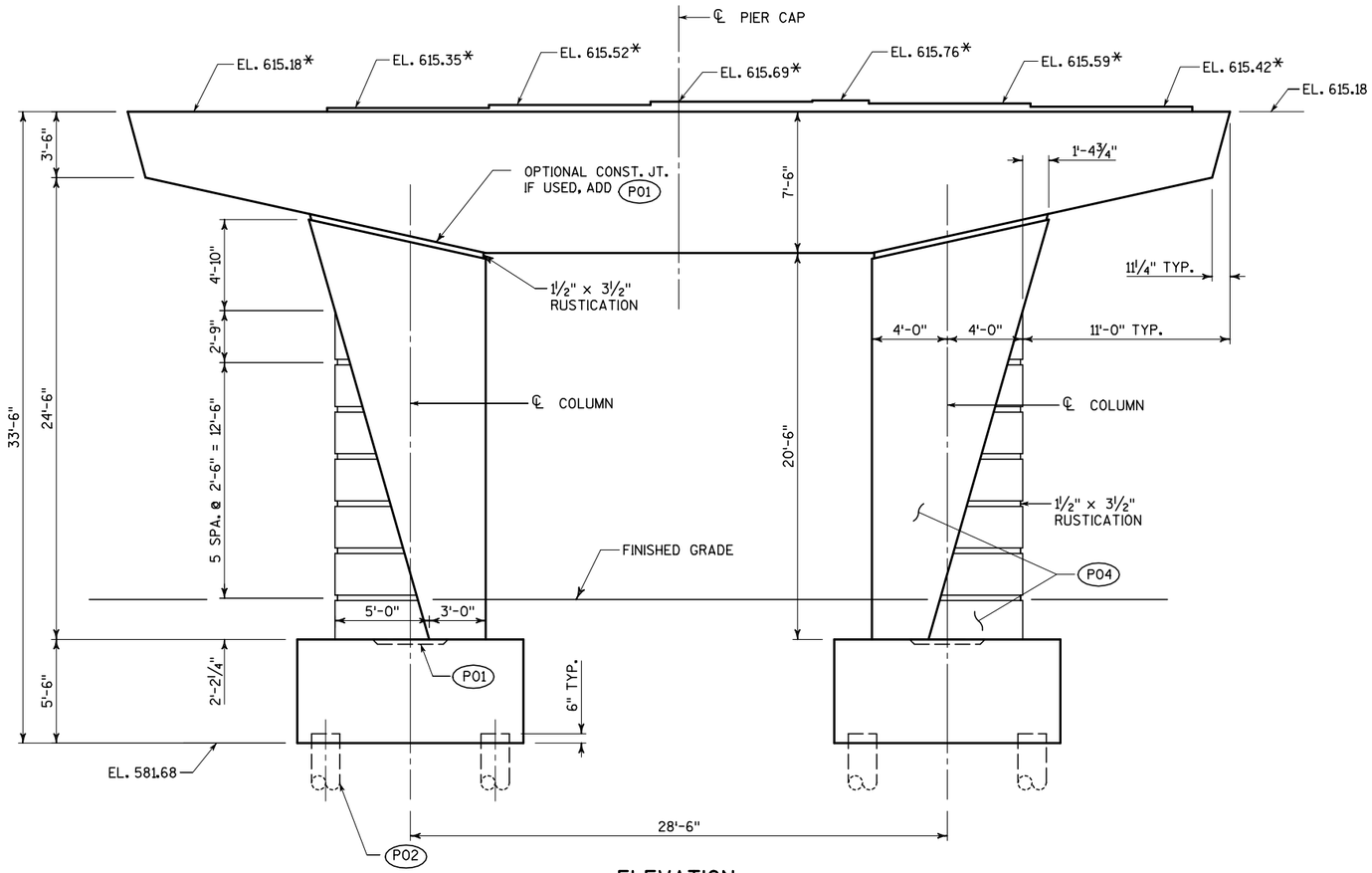
CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P2-003
REINF. SCHEDULE

SHEET 159 OF 396
3027

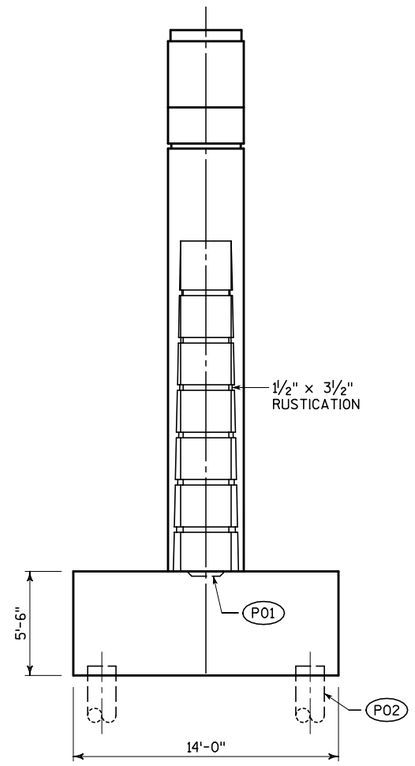
STATE PROJECT NUMBER

1060-05-75



ELEVATION

(LOOKING EAST-SHOWING DIMENSIONS)



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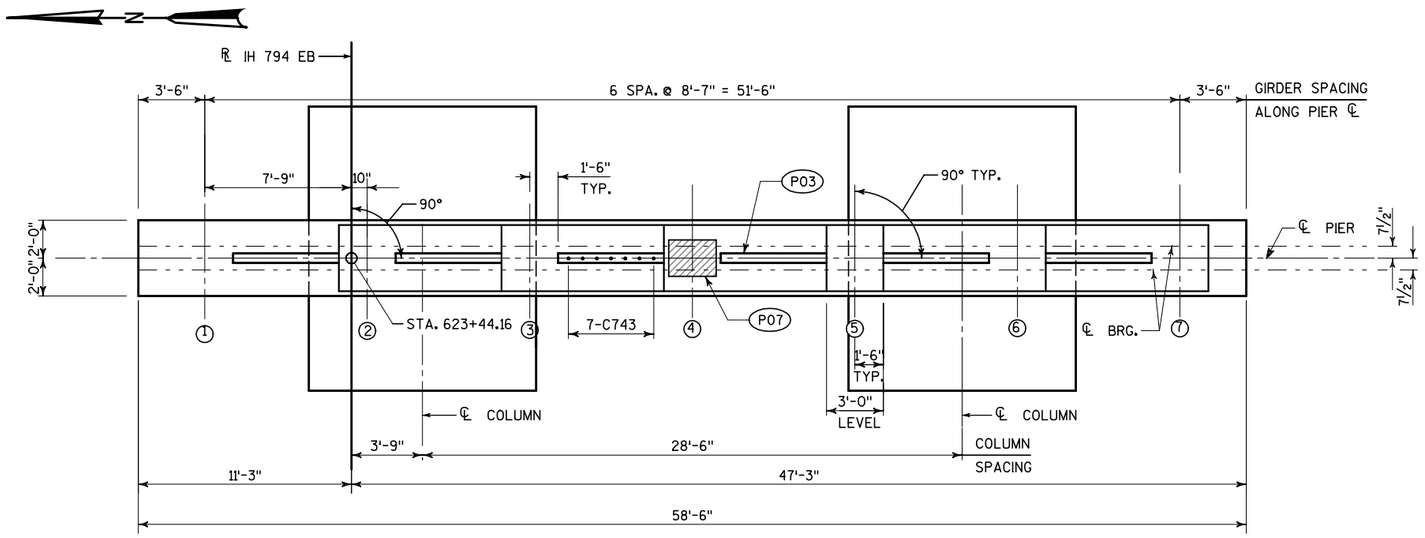


PLAN

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 195 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 130'.

(P03) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 2" X 6".

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 383.

(P07) ½" THICK ELASTOMERIC BEARING PAD, SEE SHEET 360 FOR DETAILS.

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

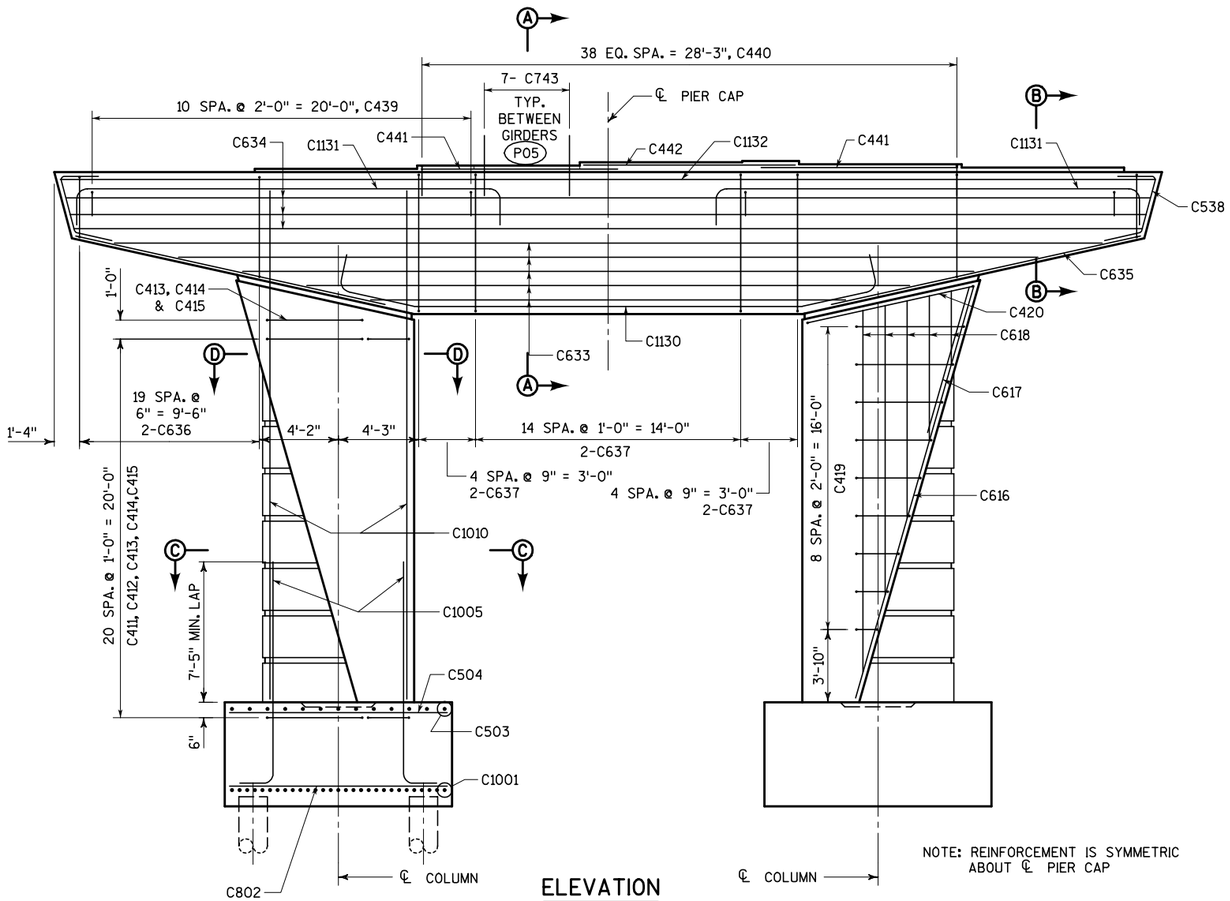
PIER P3-003

SHEET 160 OF 396

3028

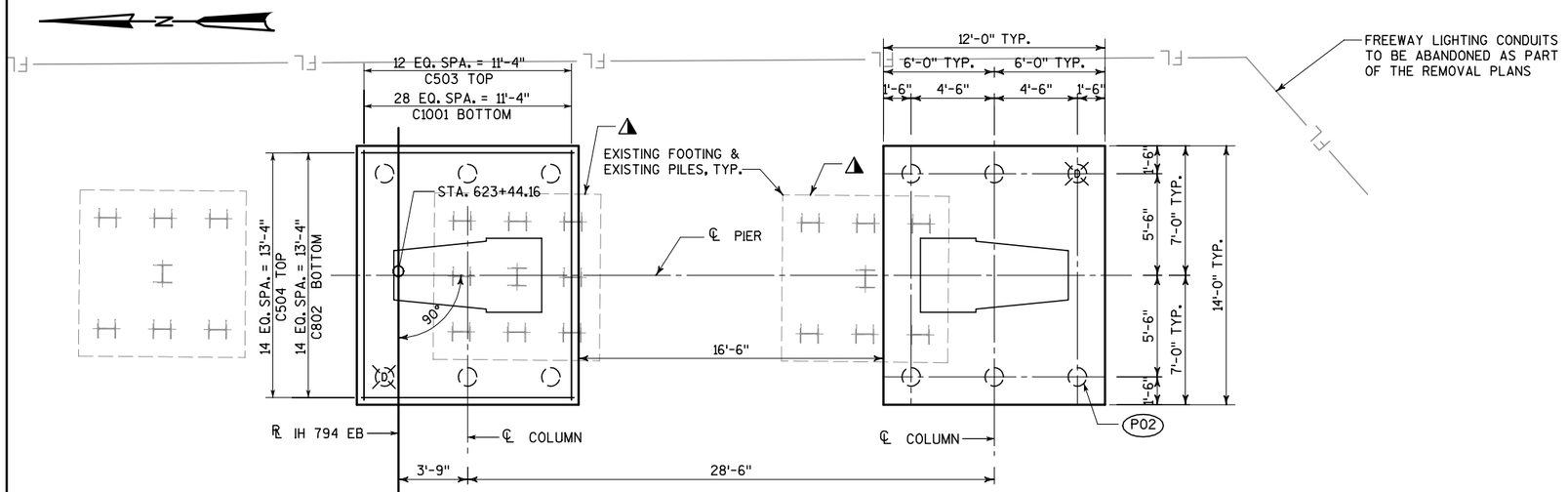
8

STATE PROJECT NUMBER
1060-05-75



ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)



REINFORCEMENT LAYOUT

PILE LAYOUT

FOOTING PLAN

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 195 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 130'.

NOTE - PROPOSED PILES MAY BE ADJUSTED UP TO 6" EACH WAY TO AVOID CONFLICTS WITH EXISTING PILES. IF GREATER ADJUSTMENT IS REQUIRED, CONTACT THE ENGINEER FOR ADDITIONAL INSTRUCTIONS BEFORE PROCEEDING.

LOCATION OF EXISTING PILES IS SHOWN BASED ON AS-BUILT DRAWINGS ONLY. FIELD VERIFY PILE LOCATIONS IMMEDIATELY AFTER EXPOSURE AND NOTIFY THE ENGINEER OF ANY DEVIATIONS NOTED.

(P05) C743 BARS AT 6 EQ. SPA. BETWEEN BEAM SEATS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. EMBED 1'-7".

D DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

⚠ CUT OFF PILING IN EXIST. FOOTING THAT IS IN THE FOOTPRINT OF THE PROPOSED FOOTING 2'-0" BELOW BOTTOM OF PROPOSED FOOTING. DO NOT INCORPORATE EXIST. PILING INTO PROPOSED FOOTING.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

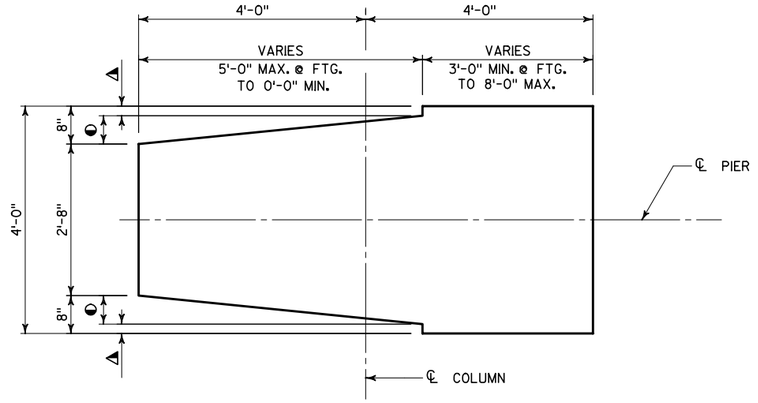
PIER P3-003
REINF. LAYOUT

SHEET 161 OF 396

3029

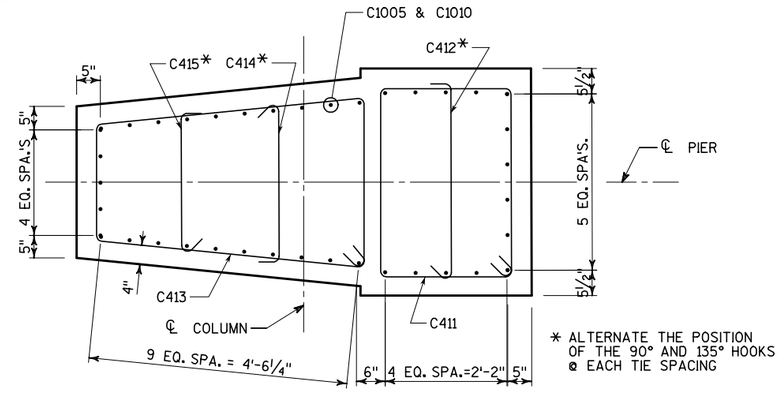
8

STATE PROJECT NUMBER
1060-05-75



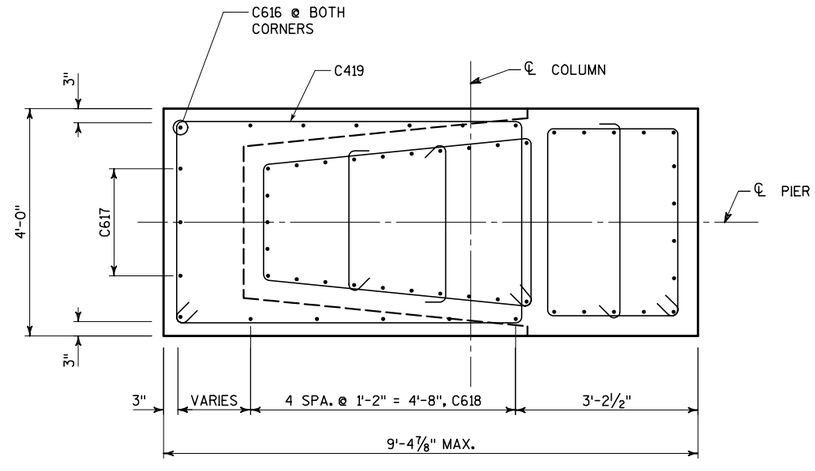
SECTION THRU COLUMN
(SHOWING DIMENSIONS)

◑ VARIES 6" MAX. @ FTG. TO 0" MIN.
◭ VARIES 2" MIN. @ FTG. TO 8" MAX.

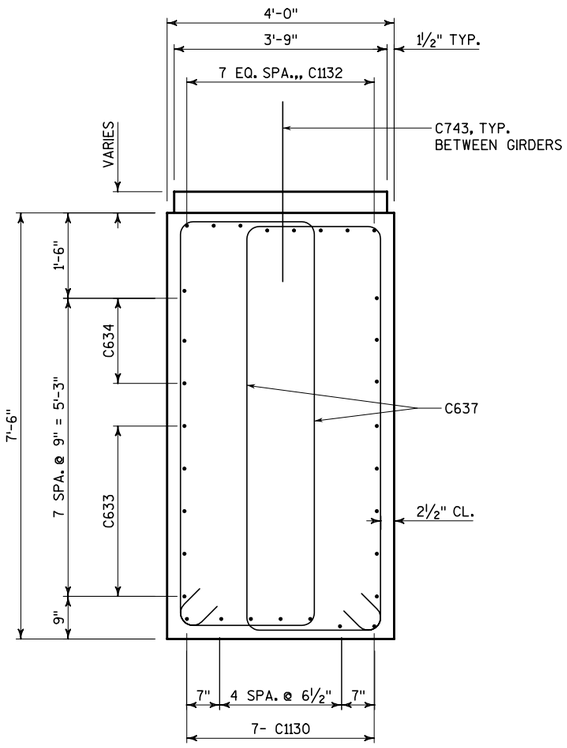


* ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS @ EACH TIE SPACING

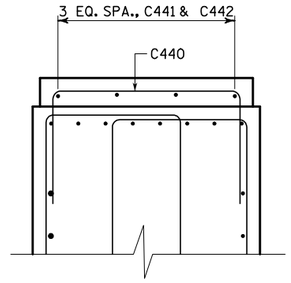
SECTION C-C
(SHOWING REINFORCEMENT)



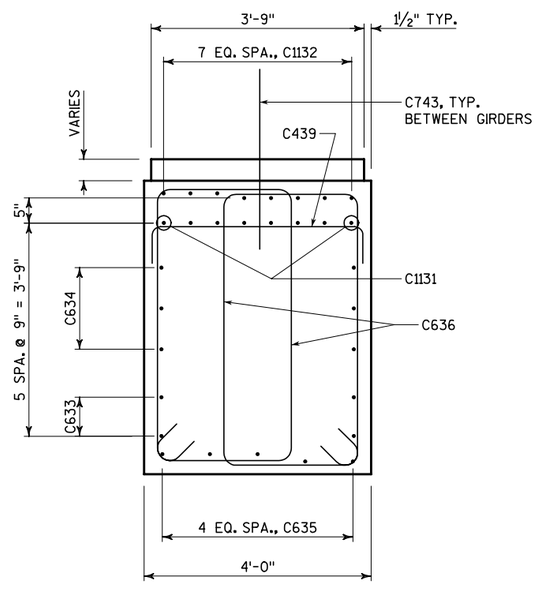
SECTION D-D



SECTION A-A



SECTION THRU GIRDER SEAT



SECTION B-B

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

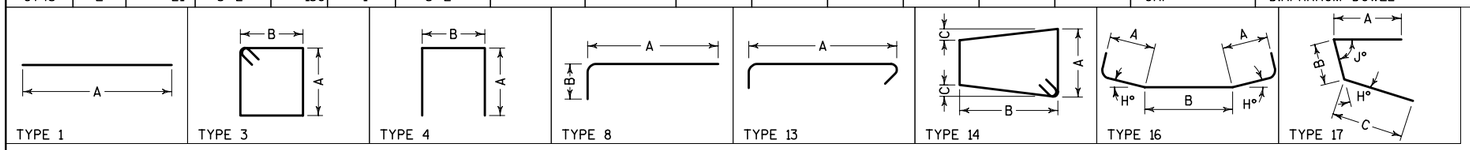
PIER P3-003 DETAILS

SHEET 162 OF 396
3030

FILE NAME: R:\C\bridges\1312\cds\1312-03C017D.dgn PEN TABLE: \\mtp\FinalDgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:34 Plotted by: emccrigh

STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
C1001		58	13'-6"	3370	1	13'-6"									FOOTING	BOTTOM
C802		30	11'-6"	921	1	11'-6"									FOOTING	BOTTOM
C504		30	11'-6"	360	1	11'-6"									FOOTING	TOP
C1005	E	74	13'-7"	4326	8	12'-1"									FOOTING	DOWEL
C1010	E	74	26'-10"	8545	1	26'-10"									COLUMN	VERTICAL
C411	E	42	11'-10"	332	3	3'-4"	2'-4"								COLUMN	TIES
C412	E	42	4'-0"	112	13	3'-4"									COLUMN	TIES
C413	E	44	15'-1"	443	14	3'-0"	4'-9"	6"							COLUMN	TIES
C414	E	44	3'-4"	98	13	2'-8½"									COLUMN	TIES
C415	E	44	3'-1"	91	13	2'-5"									COLUMN	TIES
C616	E	4	22'-8"	136	1	22'-8"									COLUMN	VERTICAL
C617	E	6	8'-0"	72	1	8'-0"									COLUMN	VERTICAL
C618	E	4 series of 5	19'-1" to 3'-10"	345	1	19'-1" to 3'-10" by 3'-9¾"									COLUMN	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
C419	E	2 series of 9	19'-0" to 9'-10"	174	3	5'-8" to 1'-1" by 6⅞"	3'-7"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
C420	E	2	26'-1"	35	3	9'-2½"	3'-7"								COLUMN	TIES
C1130	E	7	32'-0"	1190	16	4'-2"	20'-5"						12.49		CAP	BOTTOM
C1131	E	16	24'-10"	2111	4	1'-11½"	21'-8"								CAP	TOP
C1132	E	8	57'-10"	2458	1	57'-10"									CAP	TOP
C633	E	2 series of 5	25'-1" to 52'-2"	580	1	25'-1" to 52'-2" by 6'-9¼"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
C634	E	2 series of 3	56'-5" to 57'-3"	512	1	56'-5" to 57'-3" by 5"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
C635	E	10	16'-9"	252	1	16'-9"									CAP	BOTTOM @ ENDS
C636	E	4 series of 20	15'-11" to 11'-9"	1665	3	5'-3" to 3'-2" by 1⅜"	2'-5"								CAP	STIRRUPS @ ENDS, BUNDLE AND TAG EACH SERIES SEPARATELY
C637	E	46	19'-7"	1353	3	7'-1"	2'-5"								CAP	STIRRUPS
C538	E	10	7'-0"	73	17	2'-0"	3'-2"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
C439	E	22	4'-8"	69	4	8"	3'-7"								CAP	TIE
C440	E	39	7'-1"	185	4	2'-0"	3'-4"								CAP	VERTICAL GIRDER SEATS
C441	E	8	10'-4"	55	1	10'-4"									CAP	HORIZ. GIRDER SEATS
C442	E	4	11'-2"	30	1	11'-2"									CAP	HORIZ. GIRDER SEATS
C743	E	21	3'-2"	136	1	3'-2"									CAP	DIAPHRAGM DOWEL



TYPE 1 | TYPE 3 | TYPE 4 | TYPE 8 | TYPE 13 | TYPE 14 | TYPE 16 | TYPE 17

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

TOTAL NON-EPOXY REINFORCEMENT WT (LB)	4651
TOTAL EPOXY REINFORCEMENT WT (LB)	25378

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

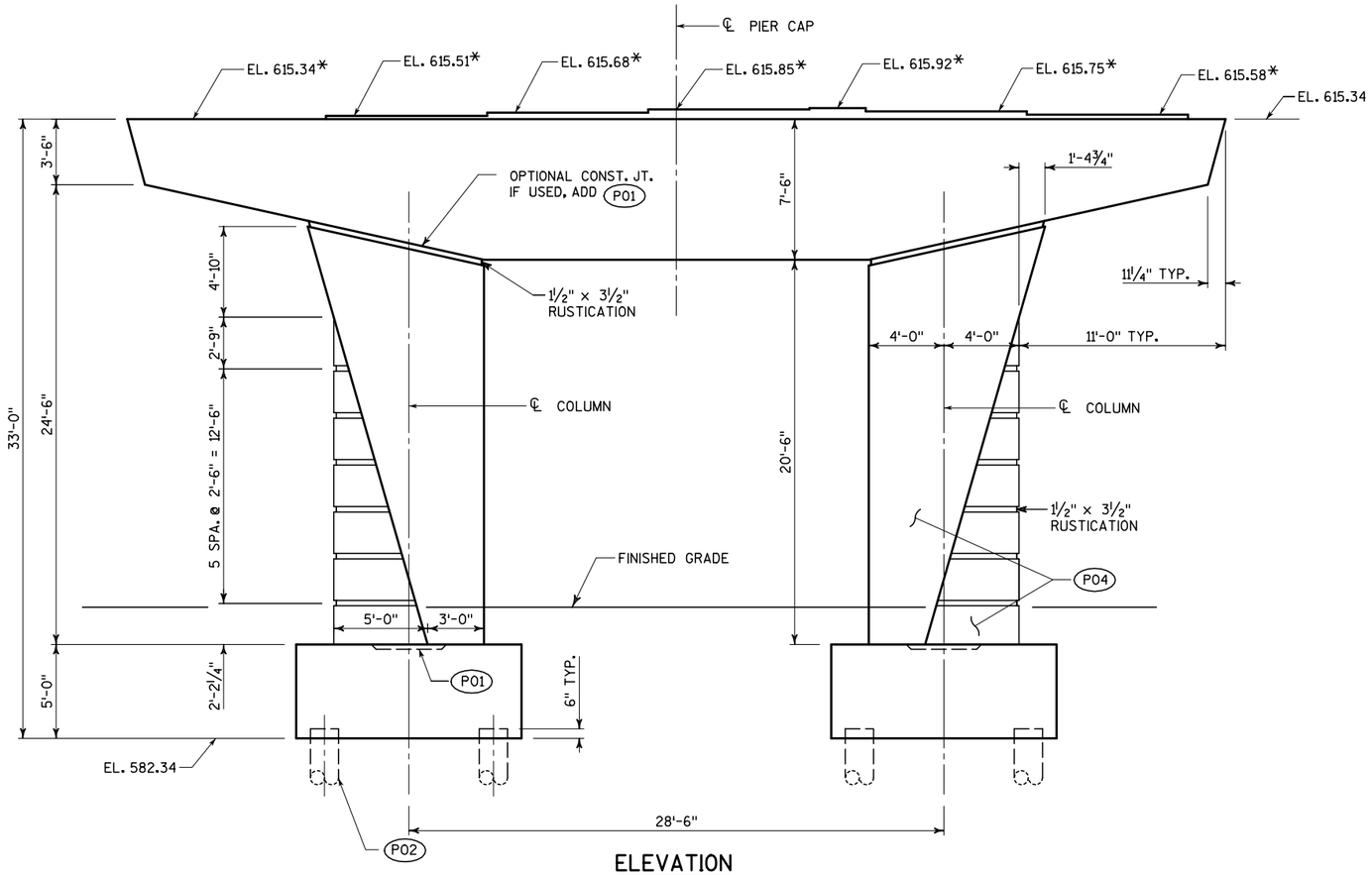
STRUCTURE B-40-1312 (003)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P3-003
REINF. SCHEDULE

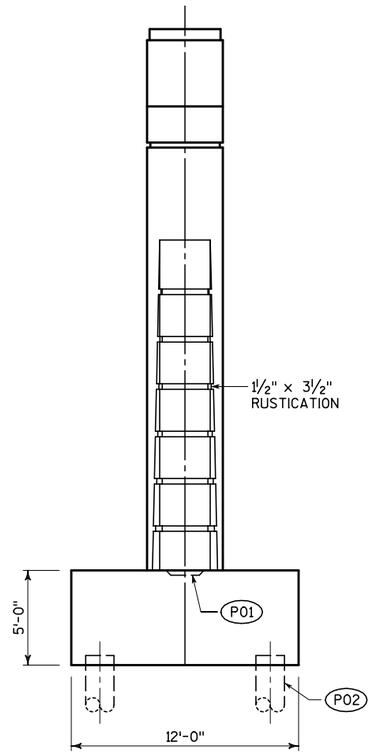
SHEET 163 OF 396
3031

STATE PROJECT NUMBER
1060-05-75

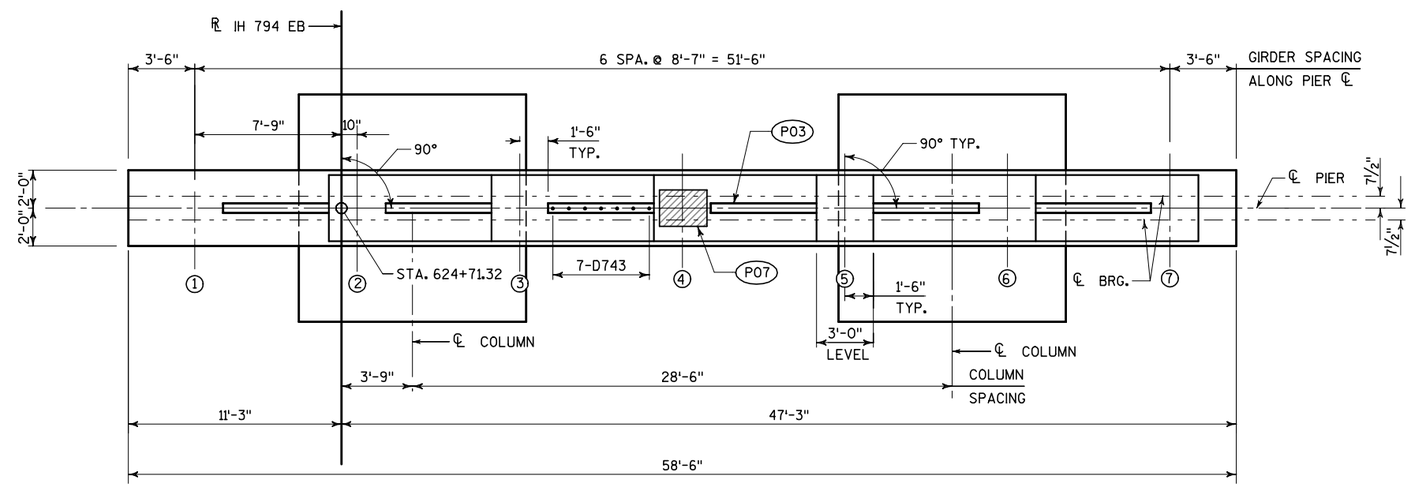


ELEVATION

(LOOKING EAST-SHOWING DIMENSIONS)



END ELEVATION



PLAN

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 220 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 110'.

(P03) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 2" X 6".

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 383.

(P07) ½" THICK ELASTOMERIC BEARING PAD, SEE SHEET 360 FOR DETAILS.

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

PIER P4-003

SHEET 164 OF 396

3032

8

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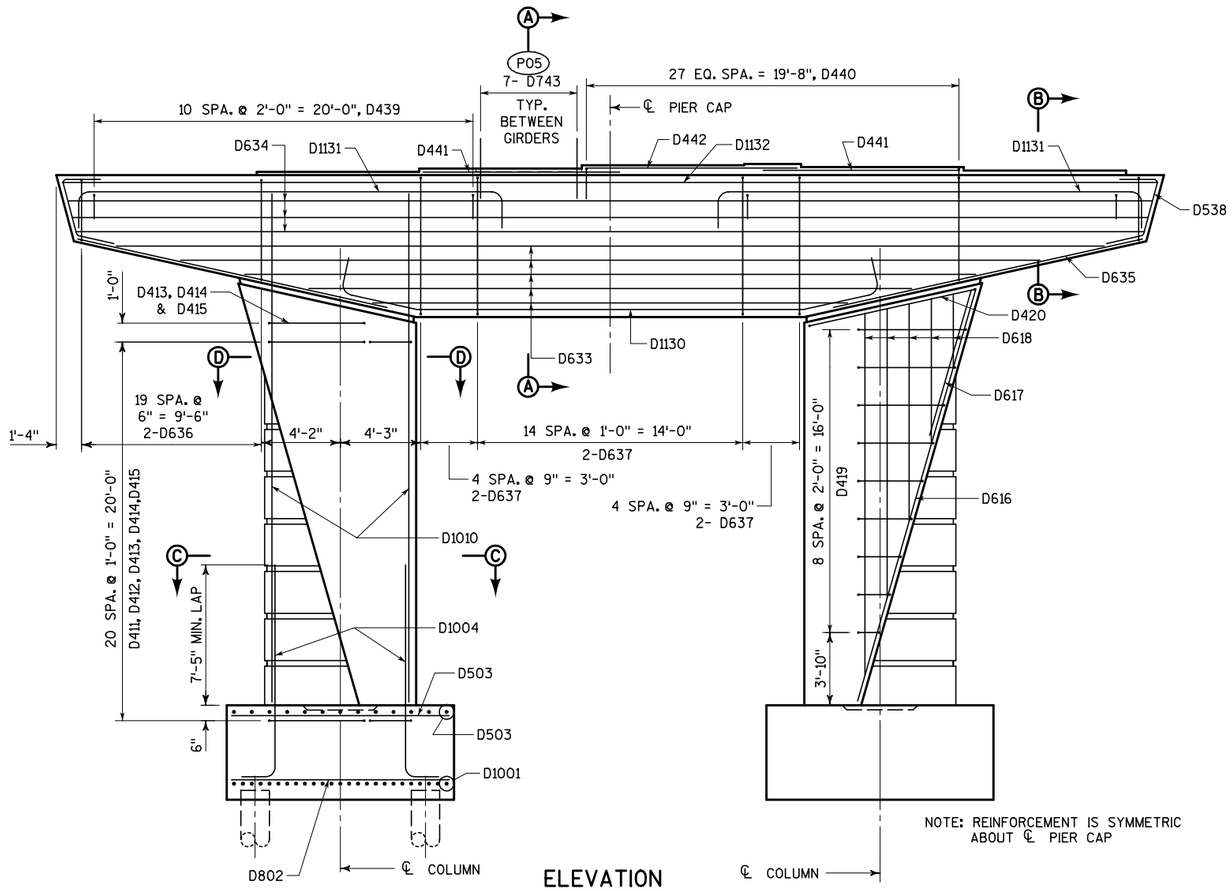
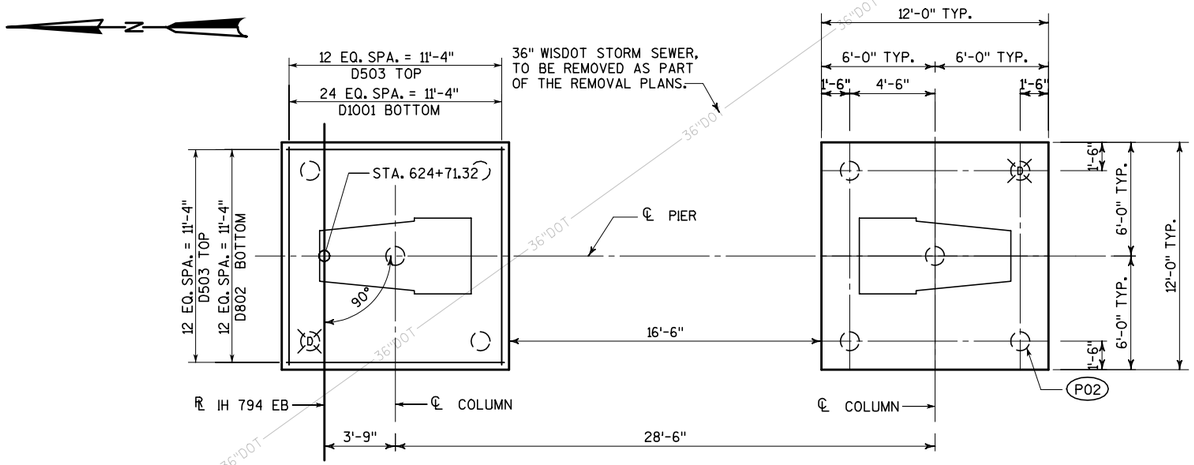
STATE PROJECT NUMBER
1060-05-75



NOTE: REINFORCEMENT IS SYMMETRIC ABOUT ℄ PIER CAP

ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)



REINFORCEMENT LAYOUT

PILE LAYOUT

FOOTING PLAN

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 220 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 110'.

(P05) D743 BARS BETWEEN GIRDER SEATS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. EMBED 1'-7".

(D) DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

PIER P4-003 REINF. LAYOUT

SHEET 165 OF 396

3033

36'DOT

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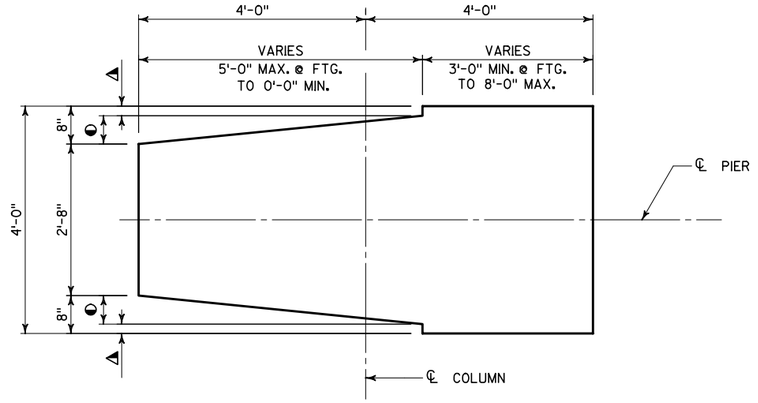
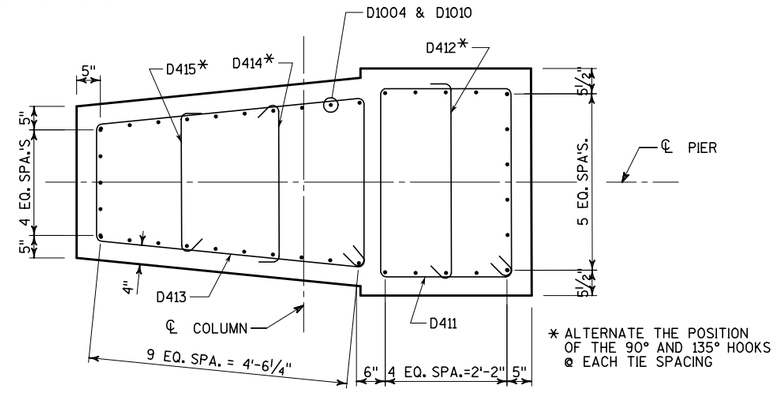
STATE PROJECT NUMBER
1060-05-75



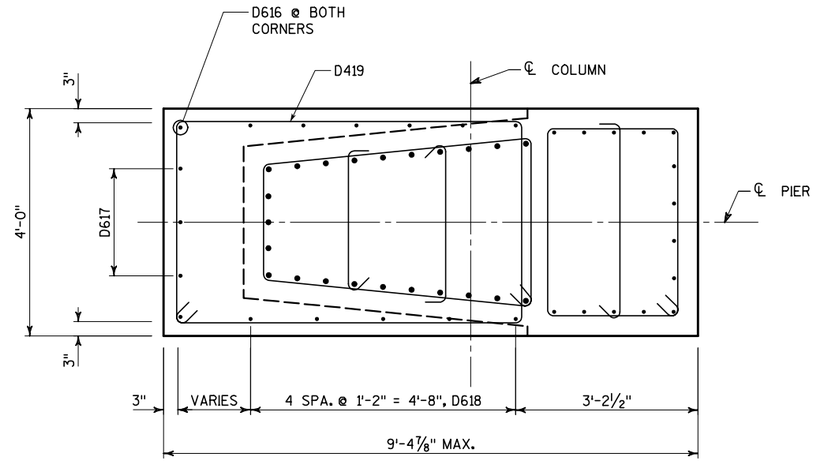
SECTION THRU COLUMN
(SHOWING DIMENSIONS)

◑ VARIES 6" MAX. @ FTG. TO 0" MIN.
◭ VARIES 2" MIN. @ FTG. TO 8" MAX.

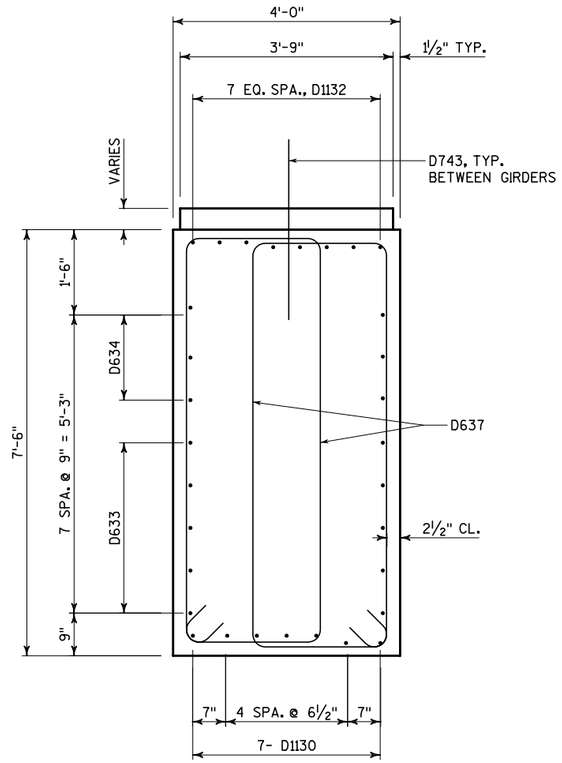


* ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS @ EACH TIE SPACING

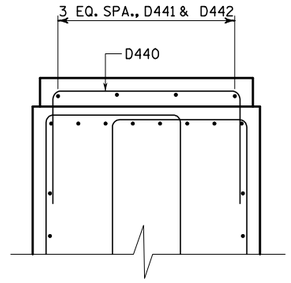
SECTION C-C
(SHOWING REINFORCEMENT)



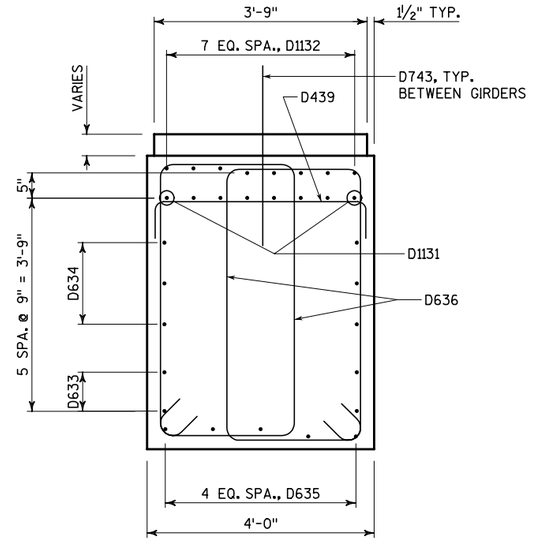
SECTION D-D



SECTION A-A



SECTION THRU GIRDER SEAT



SECTION B-B

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P4-003 DETAILS

SHEET 166 OF 396

3034

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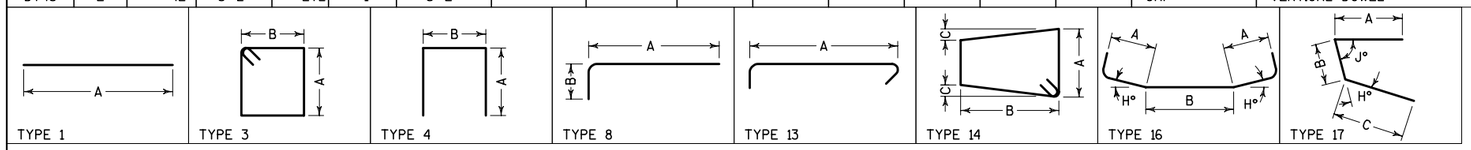
STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
D1001		50	11'-6"	2474	1	11'-6"									FOOTING	BOTTOM
D802		26	11'-6"	798	1	11'-6"									FOOTING	BOTTOM
D503		52	11'-6"	624	1	11'-6"									FOOTING	TOP
D1004	E	74	13'-1"	4166	8	11'-7"									FOOTING	DOWEL
D1010	E	74	26'-10"	8545	1	26'-10"									COLUMN	VERTICAL
D411	E	42	11'-10"	332	3	3'-4"	2'-4"								COLUMN	TIES
D412	E	42	4'-0"	112	13	3'-4"									COLUMN	TIES
D413	E	44	15'-1"	443	14	3'-0"	4'-9"	6"							COLUMN	TIES
D414	E	44	3'-4"	98	13	2'-8½"									COLUMN	TIES
D415	E	44	3'-1"	91	13	2'-5"									COLUMN	TIES
D616	E	4	22'-8"	136	1	22'-8"									COLUMN	VERTICAL
D617	E	6	8'-0"	72	1	8'-0"									COLUMN	VERTICAL
D618	E	4 series of 5	19'-1" to 3'-10"	345	1	19'-1" to 3'-10" by 3'-9¾"									COLUMN	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
D419	E	2 series of 9	19'-0" to 9'-10"	174	3	5'-8" to 1'-1" by 6⅞"	3'-7"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
D420	E	2	26'-1"	35	3	9'-2½"	3'-7"								COLUMN	TIES
D1130	E	7	32'-0"	1190	16	4'-2"	20'-5"						12.49		CAP	BOTTOM
D1131	E	16	24'-10"	2111	4	1'-11½"	21'-8"								CAP	TOP
D1132	E	8	57'-10"	2458	1	57'-10"									CAP	TOP
D633	E	2 series of 5	25'-1" to 52'-2"	580	1	25'-1" to 52'-2" by 6'-9¼"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
D634	E	2 series of 3	56'-5" to 57'-3"	512	1	56'-5" to 57'-3" by 5"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
D635	E	10	16'-9"	252	1	16'-9"									CAP	BOTTOM @ ENDS
D636	E	4 series of 20	15'-11" to 11'-9"	1665	3	5'-3" to 3'-2" by 1⅜"	2'-5"								CAP	STIRRUPS @ ENDS, BUNDLE AND TAG EACH SERIES SEPARATELY
D637	E	46	19'-7"	1353	3	7'-1"	2'-5"								CAP	STIRRUPS
D538	E	10	7'-0"	73	17	2'-0"	3'-2"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
D439	E	22	4'-8"	69	4	8"	3'-7"								CAP	TIE
D440	E	28	7'-1"	132	4	2'-0"	3'-4"								CAP	VERTICAL GIRDER SEATS
D441	E	8	10'-4"	55	1	10'-4"									CAP	HORIZ. GIRDER SEATS
D442	E	4	11'-2"	30	1	11'-2"									CAP	HORIZ. GIRDER SEATS
D743	E	42	3'-2"	272	1	3'-2"									CAP	VERTICAL DOWEL



TYPE 1 | TYPE 3 | TYPE 4 | TYPE 8 | TYPE 13 | TYPE 14 | TYPE 16 | TYPE 17

TOTAL NON-EPOXY REINFORCEMENT WT (LB)	3897
TOTAL EPOXY REINFORCEMENT WT (LB)	25303

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

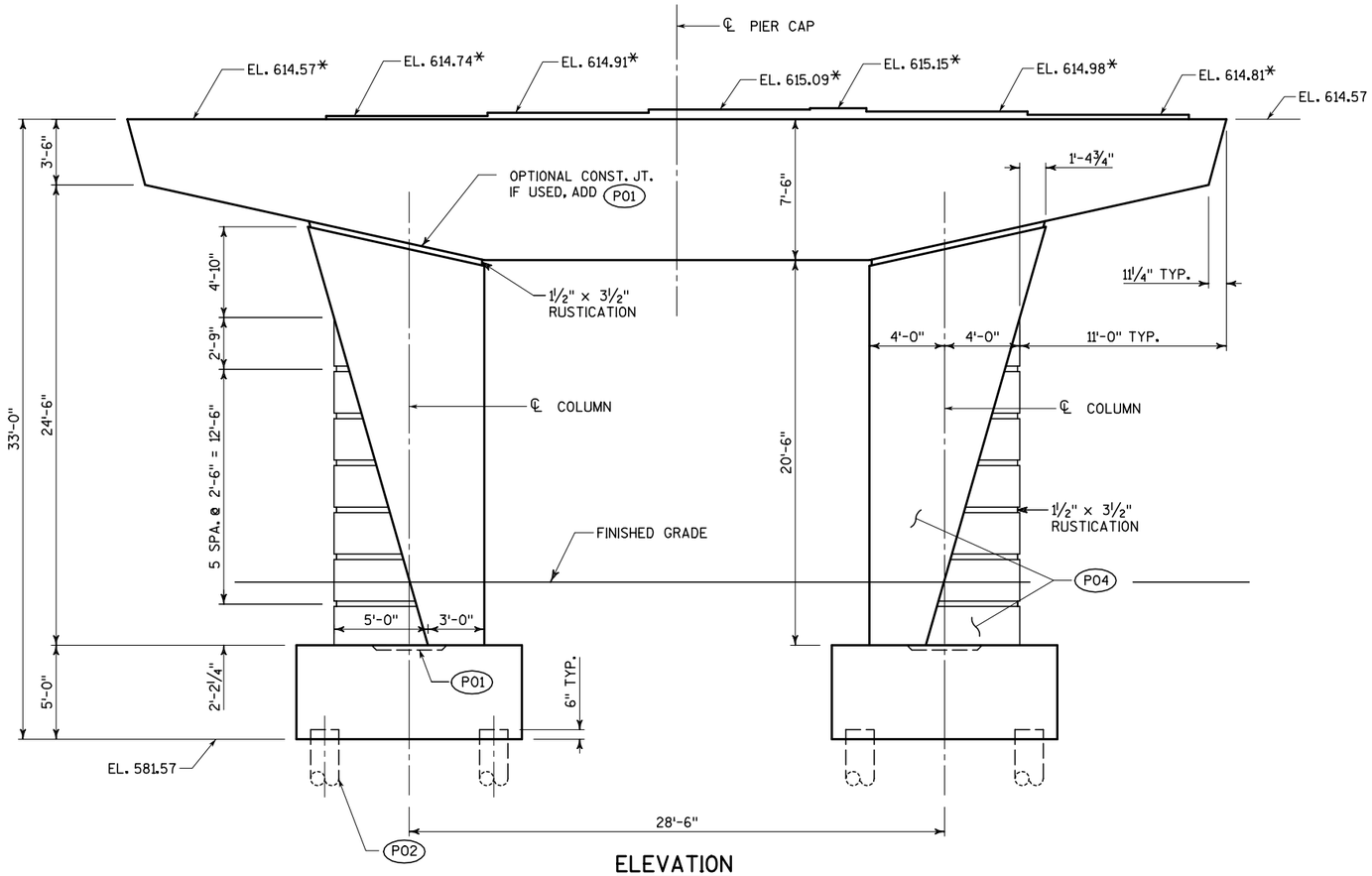
CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P4-003
REINF. SCHEDULE

SHEET 167 OF 396

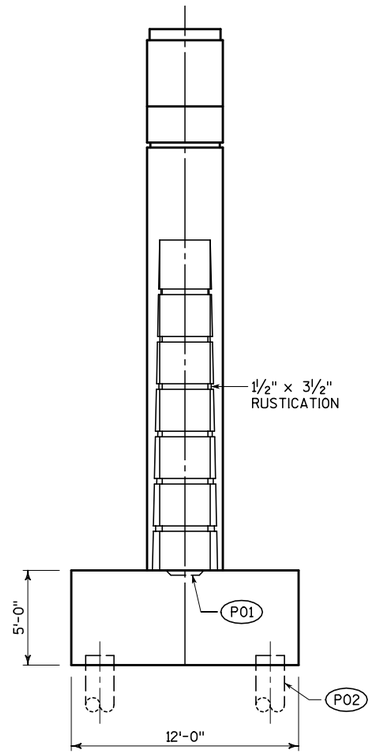
3035

STATE PROJECT NUMBER
1060-05-75

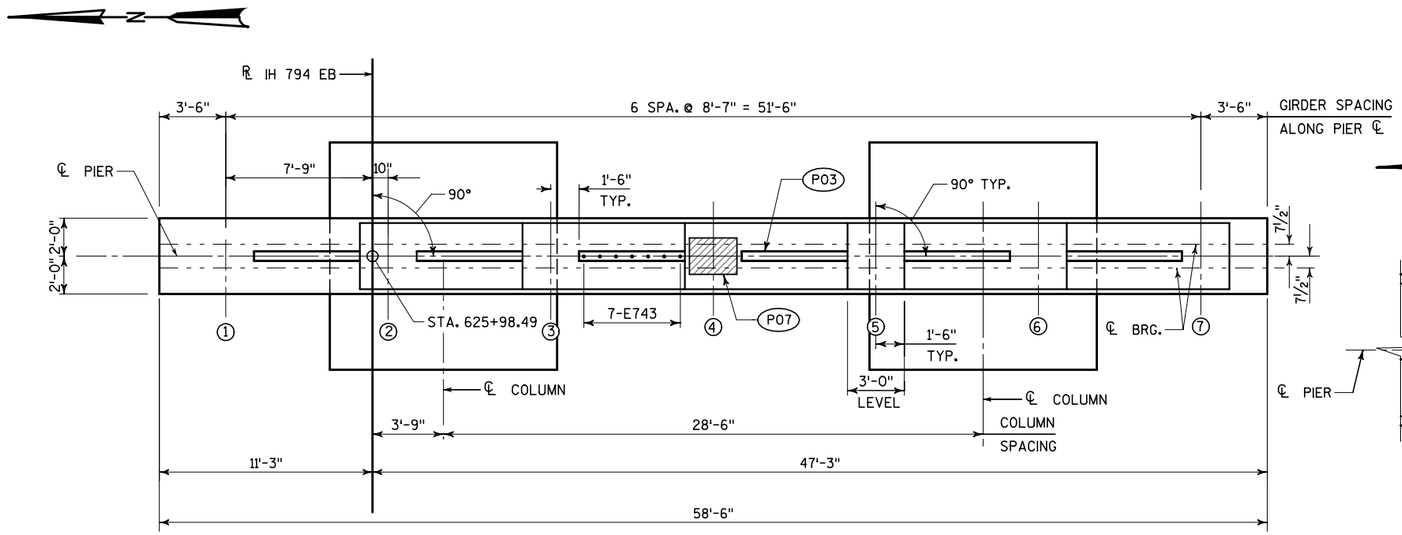


ELEVATION

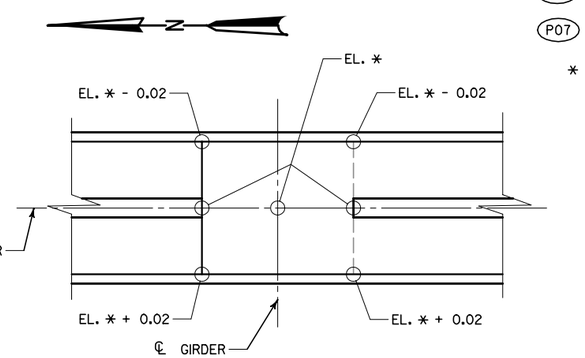
(LOOKING EAST-SHOWING DIMENSIONS)



END ELEVATION



PLAN



SLOPING BEAM SEAT DETAIL

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 205 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 135'.

(P03) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 2" X 6".

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 383.

(P07) ½" THICK ELASTOMERIC BEARING PAD, SEE SHEET 360 FOR DETAILS.

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

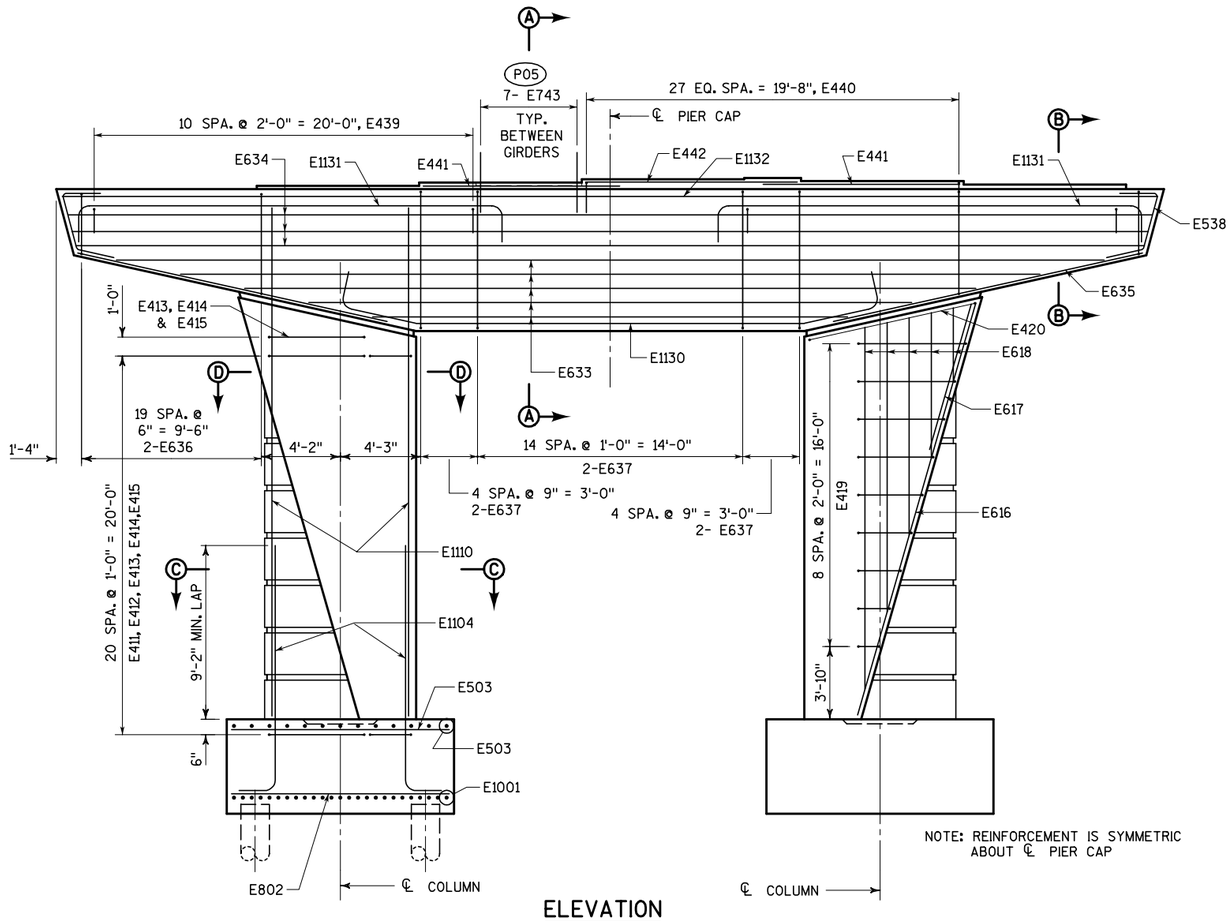
PIER P5-003

SHEET 168 OF 396

3036

8

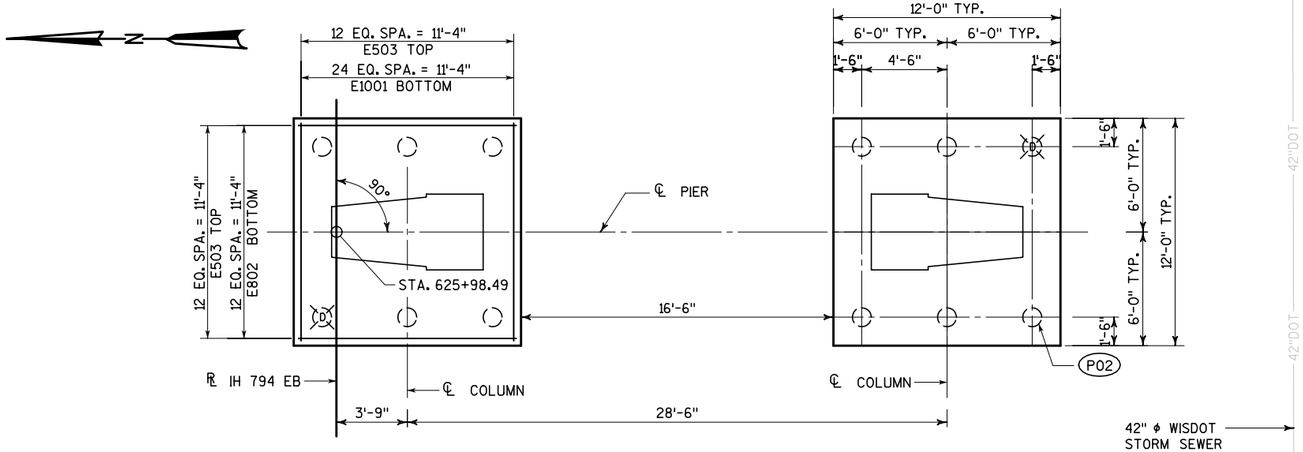
STATE PROJECT NUMBER
1060-05-75



NOTE: REINFORCEMENT IS SYMMETRIC ABOUT ℄ PIER CAP

ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)



REINFORCEMENT LAYOUT

PILE LAYOUT

FOOTING PLAN

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 210 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 135'.

(P05) E743 BARS BETWEEN GIRDER SEATS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. EMBED 1'-7".

D DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P5-003
REINF. LAYOUT

SHEET 169 OF 396

3037

8

42"DOT 42"DOT 42"DOT 42"DOT

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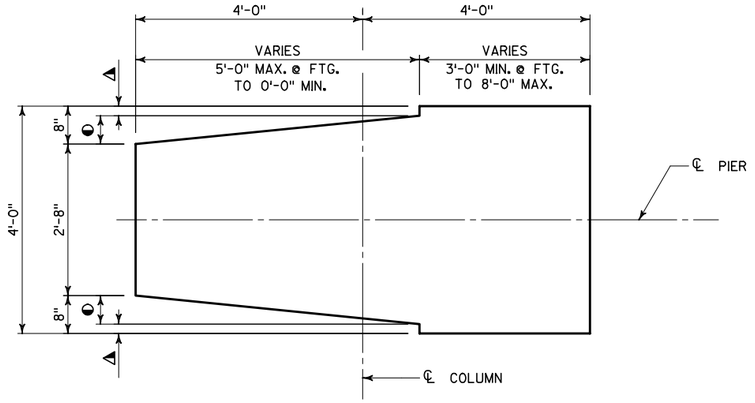
STATE PROJECT NUMBER
1060-05-75

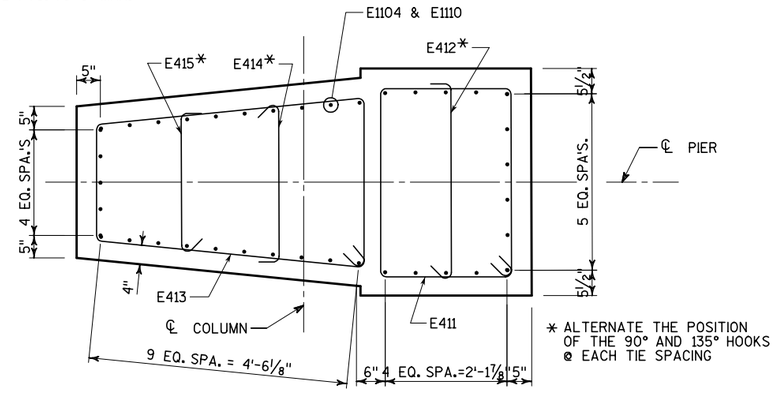


SECTION THRU COLUMN

(SHOWING DIMENSIONS)

◑ VARIES 6" MAX. @ FTG. TO 0" MIN.

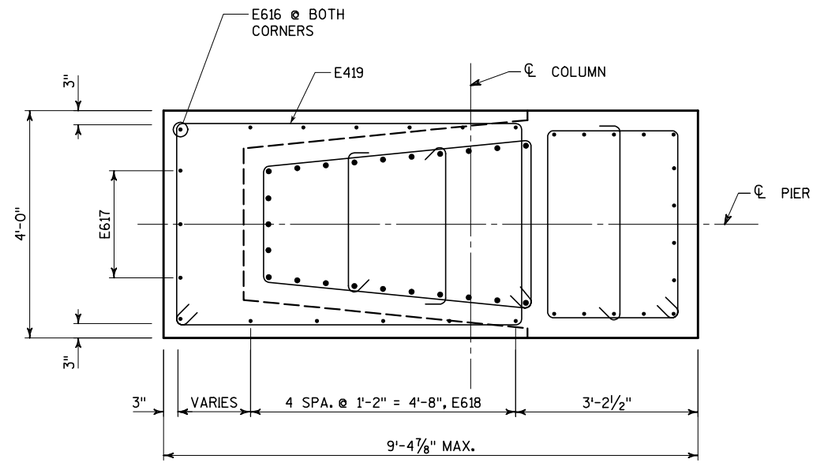
◭ VARIES 2" MIN. @ FTG. TO 8" MAX.



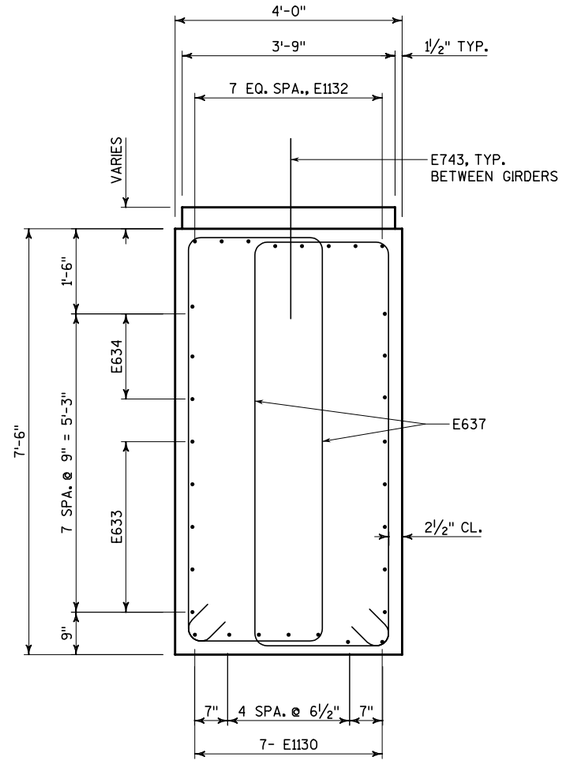
* ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS @ EACH TIE SPACING

SECTION C-C

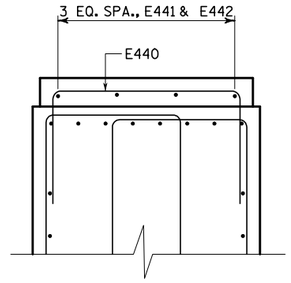
(SHOWING REINFORCEMENT)



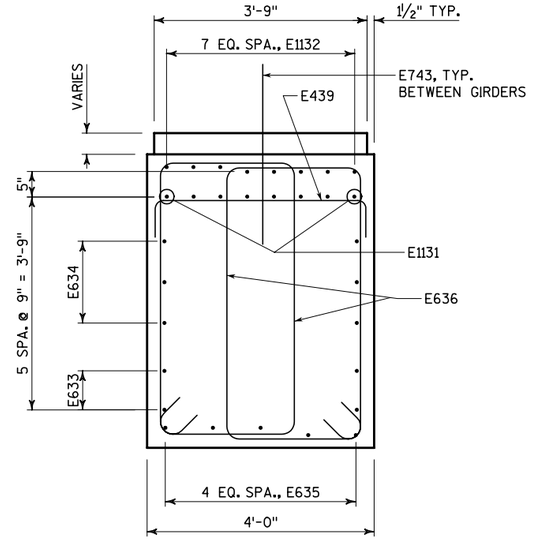
SECTION D-D



SECTION A-A



SECTION THRU GIRDER SEAT



SECTION B-B

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P5-003 DETAILS

SHEET 170 OF 396

3038

8

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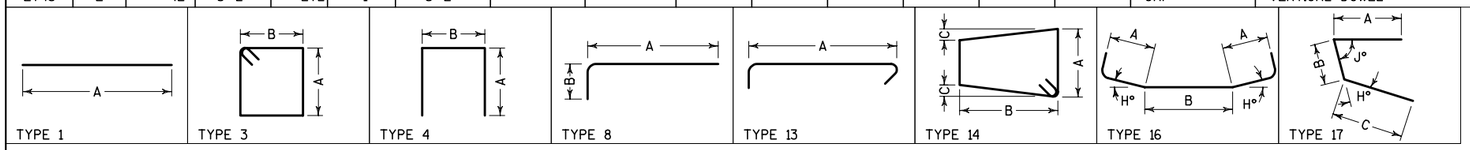
STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
E1001		50	11'-6"	2474	1	11'-6"									FOOTING	BOTTOM
E802		26	11'-6"	798	1	11'-6"									FOOTING	BOTTOM
E503		52	11'-6"	624	1	11'-6"									FOOTING	TOP
E1104	E	74	14'-11"	5865	8	13'-4"									FOOTING	DOWEL
E1110	E	74	26'-10"	10551	1	26'-10"									COLUMN	VERTICAL
E411	E	42	11'-10"	332	3	3'-4"	2'-4"								COLUMN	TIES
E412	E	42	4'-0"	112	13	3'-4"									COLUMN	TIES
E413	E	44	15'-1"	443	14	3'-0"	4'-9"	6"							COLUMN	TIES
E414	E	44	3'-4"	98	13	2'-8½"									COLUMN	TIES
E415	E	44	3'-1"	91	13	2'-5"									COLUMN	TIES
E616	E	4	22'-8"	136	1	22'-8"									COLUMN	VERTICAL
E617	E	6	8'-0"	72	1	8'-0"									COLUMN	VERTICAL
E618	E	4 series of 5	19'-1" to 3'-10"	345	1	19'-1" to 3'-10" by 3'-9¾"									COLUMN	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
E419	E	2 series of 9	19'-0" to 9'-10"	174	3	5'-8" to 1'-1" by 6⅞"	3'-7"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
E420	E	2	26'-1"	35	3	9'-2½"	3'-7"								COLUMN	TIES
E1130	E	7	32'-0"	1190	16	4'-2"	20'-5"						12.49		CAP	BOTTOM
E1131	E	16	24'-10"	2111	4	1'-11½"	21'-8"								CAP	TOP
E1132	E	8	57'-10"	2458	1	57'-10"									CAP	TOP
E633	E	2 series of 5	25'-1" to 52'-2"	580	1	25'-1" to 52'-2" by 6'-9¼"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
E634	E	2 series of 3	56'-5" to 57'-3"	512	1	56'-5" to 57'-3" by 5"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
E635	E	10	16'-9"	252	1	16'-9"									CAP	BOTTOM @ ENDS
E636	E	4 series of 20	15'-11" to 11'-9"	1665	3	5'-3" to 3'-2" by 1⅜"	2'-5"								CAP	STIRRUPS @ ENDS, BUNDLE AND TAG EACH SERIES SEPARATELY
E637	E	46	19'-7"	1353	3	7'-1"	2'-5"								CAP	STIRRUPS
E538	E	10	7'-0"	73	17	2'-0"	3'-2"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
E439	E	22	4'-8"	69	4	8"	3'-7"								CAP	TIE
E440	E	28	7'-1"	132	4	2'-0"	3'-4"								CAP	VERTICAL GIRDER SEATS
E441	E	8	10'-4"	55	1	10'-4"									CAP	HORIZ. GIRDER SEATS
E442	E	4	11'-2"	30	1	11'-2"									CAP	HORIZ. GIRDER SEATS
E743	E	42	3'-2"	272	1	3'-2"									CAP	VERTICAL DOWEL



TYPE 1 | TYPE 3 | TYPE 4 | TYPE 8 | TYPE 13 | TYPE 14 | TYPE 16 | TYPE 17

TOTAL NON-EPOXY REINFORCEMENT WT (LB)	3897
TOTAL EPOXY REINFORCEMENT WT (LB)	29007

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

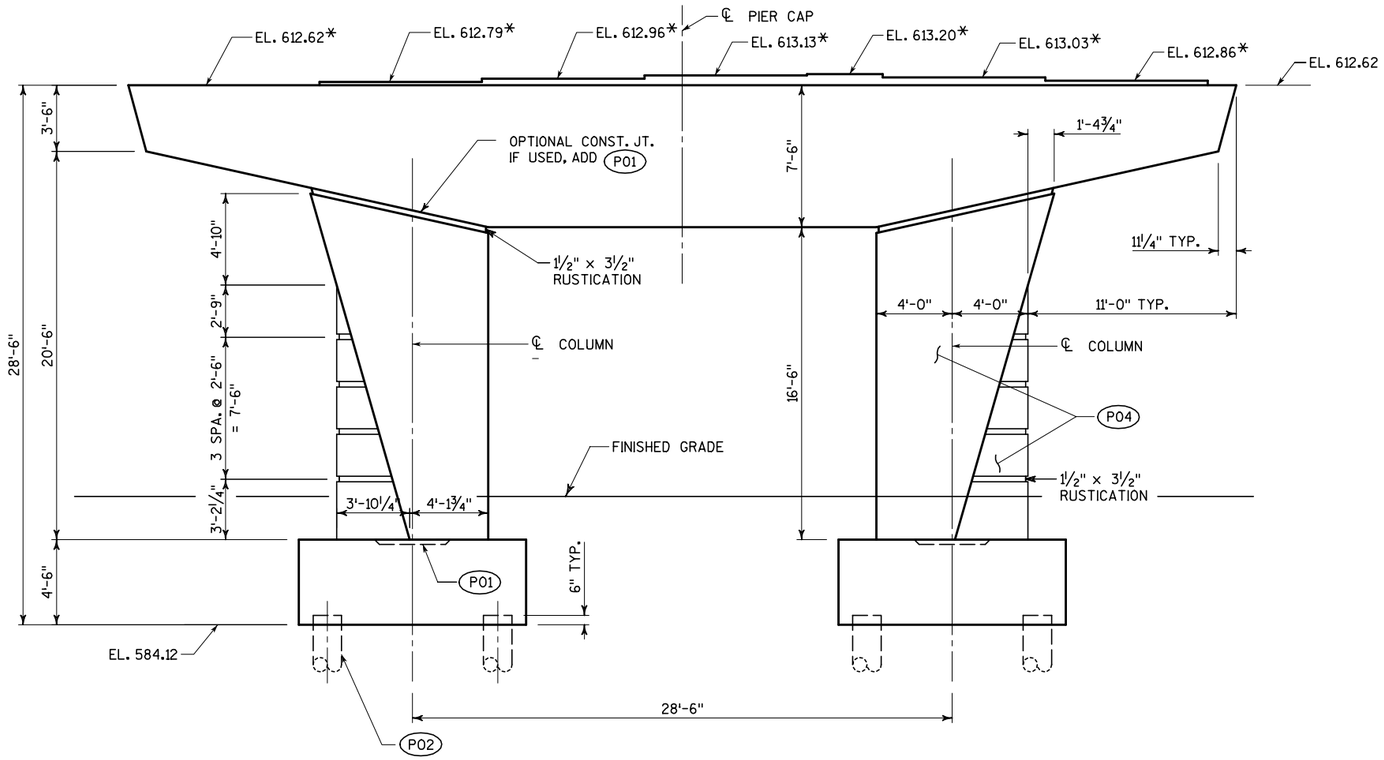
CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P5-003
REINF. SCHEDULE

SHEET 171 OF 396
3039

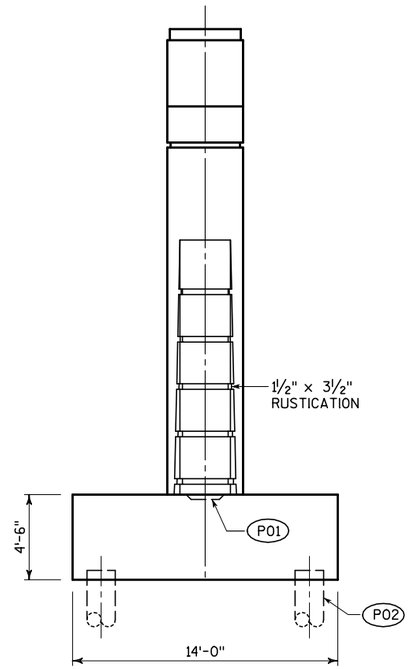
STATE PROJECT NUMBER

1060-05-75

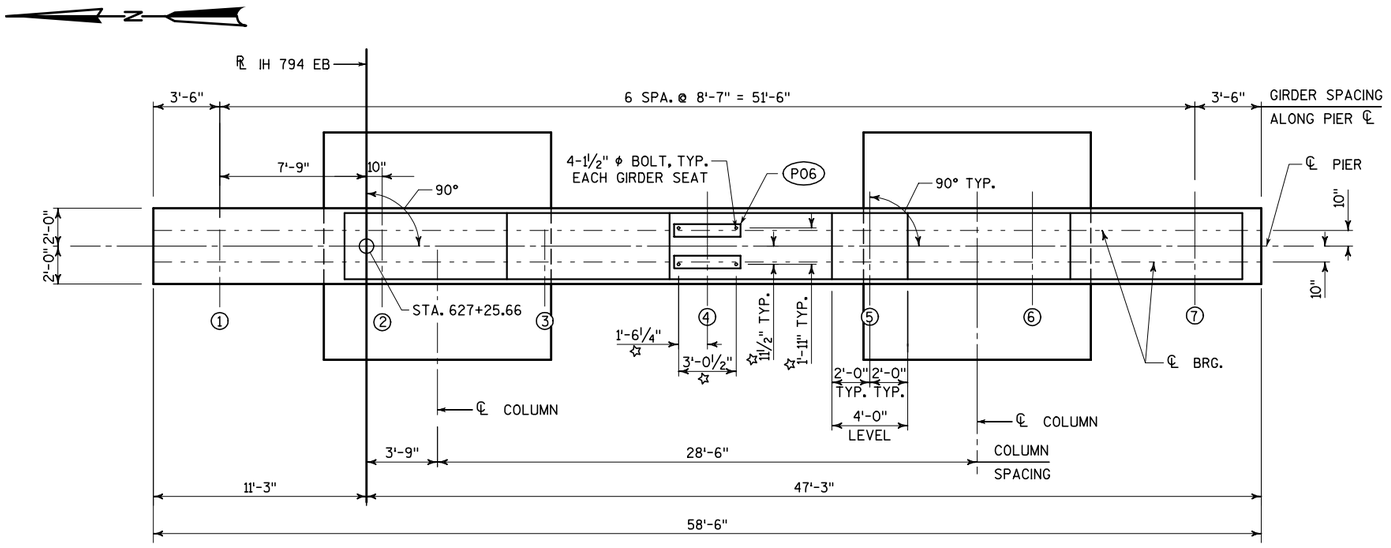


ELEVATION

(LOOKING EAST-SHOWING DIMENSIONS)



END ELEVATION



PLAN

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 205 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 135'.

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 383.

(P06) 1/2" THICK MASONRY PLATE, SEE "PRESTRESSED GIRDER BEARINGS" SHEET FOR DETAILS.

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

☆ DIMENSIONS ARE GIVEN TO THE ℄ OF ANCHOR BOLTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P6-003

SHEET 172 OF 396

3040

8

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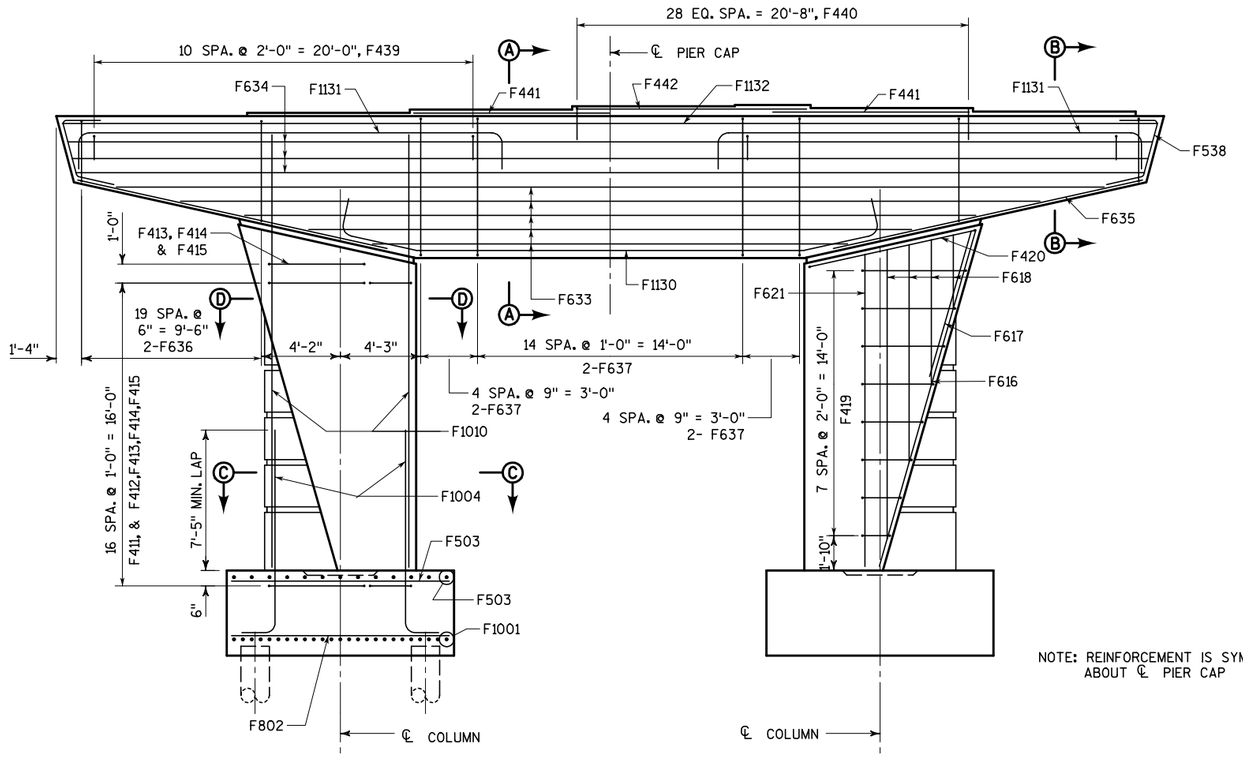
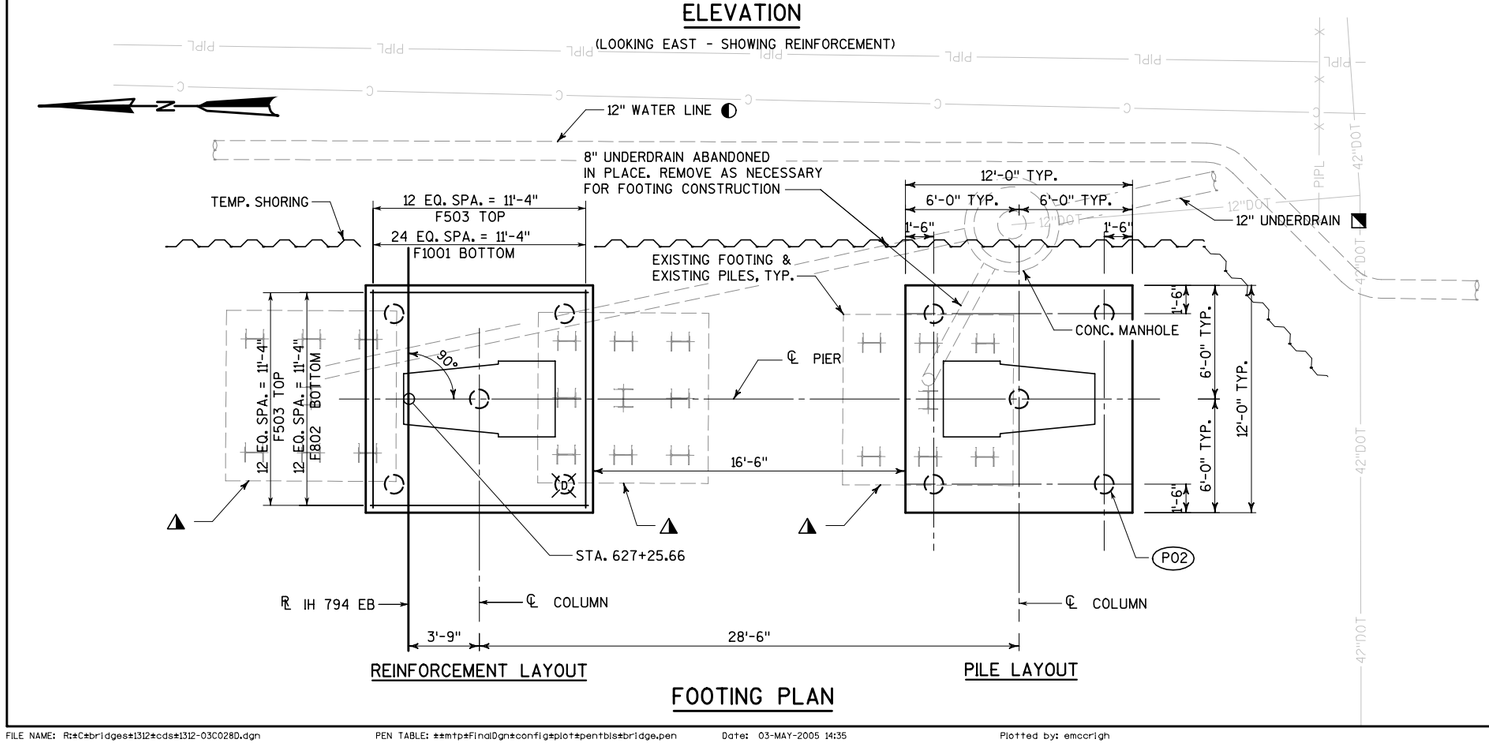
STATE PROJECT NUMBER
1060-05-75



NOTE: REINFORCEMENT IS SYMMETRIC ABOUT ℄ PIER CAP

ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)



FOOTING PLAN

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 205 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 135'.

NOTE - PROPOSED PILES MAY BE ADJUSTED UP TO 6" EACH WAY TO AVOID CONFLICTS WITH EXISTING PILES. IF GREATER ADJUSTMENT IS REQUIRED, CONTACT THE ENGINEER FOR ADDITIONAL INSTRUCTIONS BEFORE PROCEEDING.

LOCATION OF EXISTING PILES IS SHOWN BASED ON AS-BUILT DRAWINGS ONLY. FIELD VERIFY PILE LOCATIONS IMMEDIATELY AFTER EXPOSURE AND NOTIFY THE ENGINEER OF ANY DEVIATIONS NOTED.

D DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

△ CUTOFF PILING IN EXIST. FOOTING THAT IS IN THE FOOTPRINT OF THE PROPOSED FOOTING 2'-0" BELOW BOTTOM OF PROPOSED FOOTING. DO NOT INCORPORATE EXIST. PILING INTO PROPOSED FOOTING.

◪ 12" UNDERDRAIN AND CONCRETE MANHOLE TO BE REMOVED PRIOR TO FTG. CONSTRUCTION. SEE ROADWAY REMOVAL SHEETS.

◐ 12" WATER LINE IS APPROX. 7'-0" BELOW EXIST. GRADE. VERIFY LOCATION OF WATER LINE BEFORE PLACING TEMP. SHORING. USE TEMP. SHORING AS NECESSARY TO CONSTRUCT PROPOSED FOOTINGS.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

PIER P6-003
REINF. LAYOUT

SHEET 173 OF 396
3041

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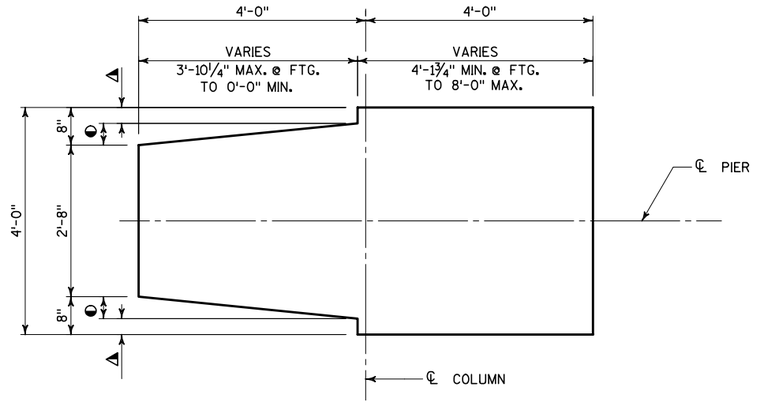
STATE PROJECT NUMBER

1060-05-75

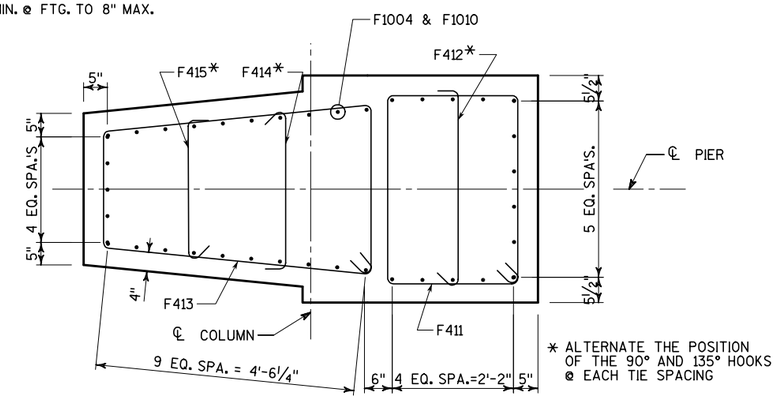


SECTION THRU COLUMN

(SHOWING DIMENSIONS)

◑ VARIES 4⅝" MAX. @ FTG. TO 0" MIN.

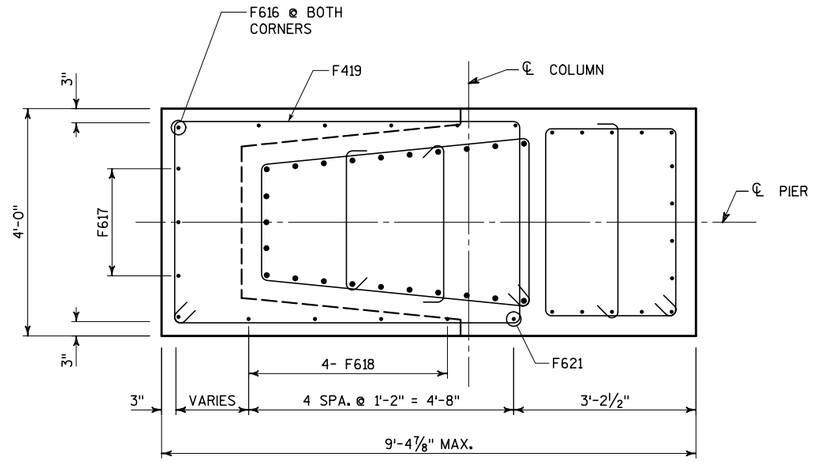
◭ VARIES 3⅜" MIN. @ FTG. TO 8" MAX.



* ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS @ EACH TIE SPACING

SECTION C-C

(SHOWING REINFORCEMENT)



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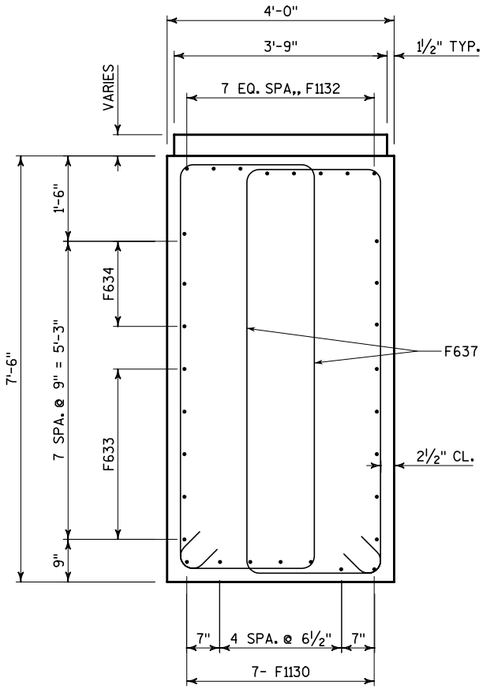
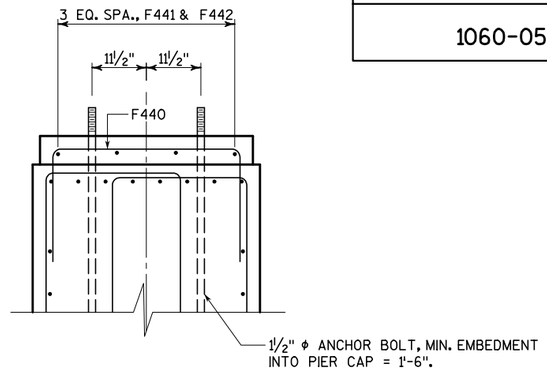
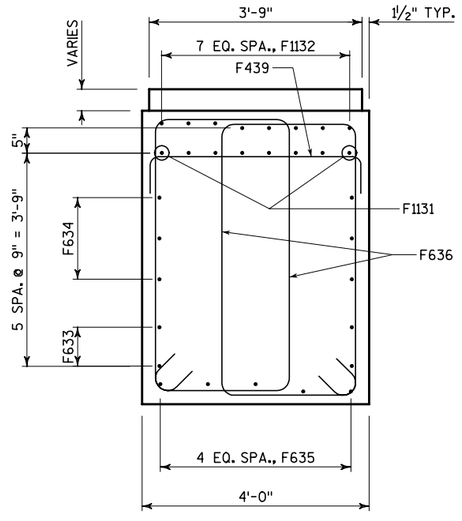


SECTION A-A



SECTION THRU GIRDER SEAT



SECTION B-B

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P6-003 DETAILS

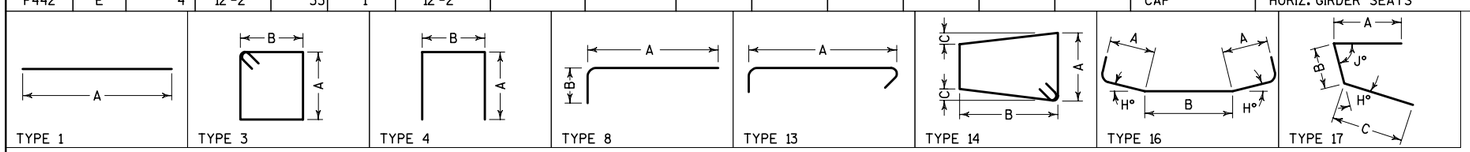
SHEET 174 OF 396

3042

8

STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
F1001		100	11'-6"	4949	1	11'-6"									FOOTING	BOTTOM
F802		52	11'-6"	1597	1	11'-6"									FOOTING	BOTTOM
F503		26	11'-6"	312	1	11'-6"									FOOTING	TOP
F1004	E	74	12'-7"	4007	8	11'-1"									FOOTING	DOWEL
F1010	E	74	22'-10"	7271	1	22'-10"									COLUMN	VERTICAL
F411	E	34	11'-10"	269	3	3'-4"	2'-4"								COLUMN	TIES
F412	E	34	4'-0"	91	13	3'-4"									COLUMN	TIES
F413	E	36	15'-1"	363	14	3'-0"	4'-9"	6"							COLUMN	TIES
F414	E	36	3'-4"	80	13	2'-8½"									COLUMN	TIES
F415	E	36	3'-1"	74	13	2'-5"									COLUMN	TIES
F616	E	4	18'-6"	111	1	18'-6"									COLUMN	VERTICAL
F617	E	6	8'-0"	72	1	8'-0"									COLUMN	VERTICAL
F618	E	4 series of 4	15'-4" to 3'-10"	230	1	15'-4" to 3'-10" by 3'-10"									COLUMN	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
F419	E	2 series of 8	18'-7" to 10'-7"	156	3	5'-5½" to 1'-5½" by 6⅞"	3'-7"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
F420	E	2	26'-1"	35	3	9'-2½"	3'-7"								COLUMN	TIES
F621	E	4	16'-6"	99	1	16'-6"									COLUMN	VERTICAL
F1130	E	7	32'-0"	1190	16	4'-2"	20'-5"						12.49		CAP	BOTTOM
F1131	E	16	24'-10"	2111	4	1'-11½"	21'-8"								CAP	TOP
F1132	E	8	57'-10"	2458	1	57'-10"									CAP	TOP
F633	E	2 series of 5	25'-1" to 52'-2"	580	1	25'-1" to 52'-2" by 6'-9¼"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
F634	E	2 series of 3	56'-5" to 57'-3"	512	1	56'-5" to 57'-3" by 5"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
F635	E	10	16'-9"	252	1	16'-9"									CAP	BOTTOM @ ENDS
F636	E	4 series of 20	15'-11" to 11'-9"	1665	3	5'-3" to 3'-2" by 1⅜"	2'-5"								CAP	STIRRUPS @ ENDS, BUNDLE AND TAG EACH SERIES SEPARATELY
F637	E	46	19'-7"	1353	3	7'-1"	2'-5"								CAP	STIRRUPS
F538	E	10	7'-0"	73	17	2'-0"	3'-2"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
F439	E	22	4'-8"	69	4	8"	3'-7"								CAP	TIE
F440	E	29	7'-1"	137	4	2'-0"	3'-4"								CAP	VERTICAL GIRDER SEATS
F441	E	8	10'-4"	55	1	10'-4"									CAP	TIES
F442	E	4	12'-2"	33	1	12'-2"									CAP	HORIZ. GIRDER SEATS



TYPE 1 | TYPE 3 | TYPE 4 | TYPE 8 | TYPE 13 | TYPE 14 | TYPE 16 | TYPE 17

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

TOTAL NON-EPOXY REINFORCEMENT	WT (LB)	6858
TOTAL EPOXY REINFORCEMENT	WT (LB)	23347

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P6-003
REINF. SCHEDULE

SHEET 175 OF 396
3043

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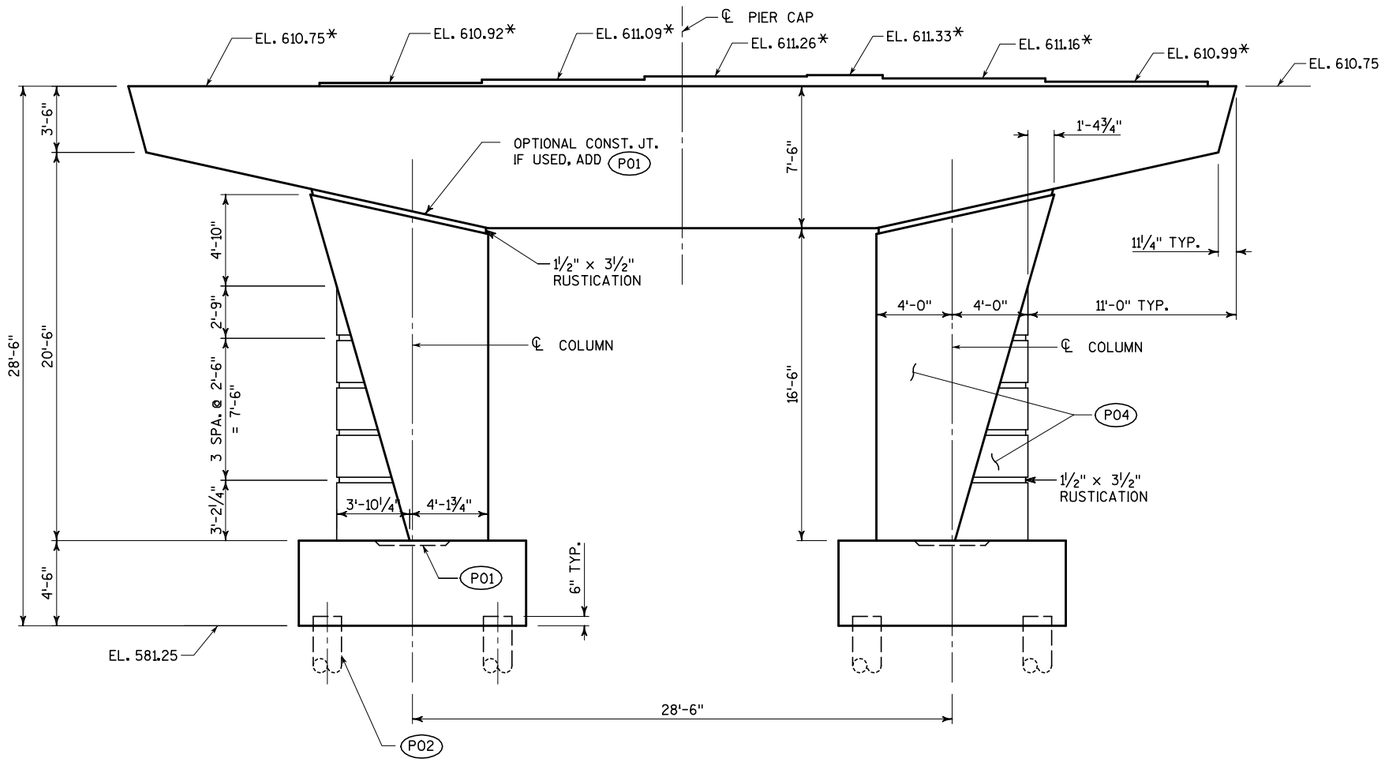
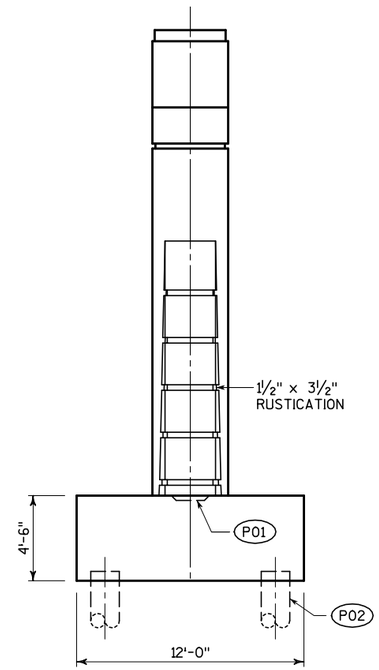
STATE PROJECT NUMBER
1060-05-75

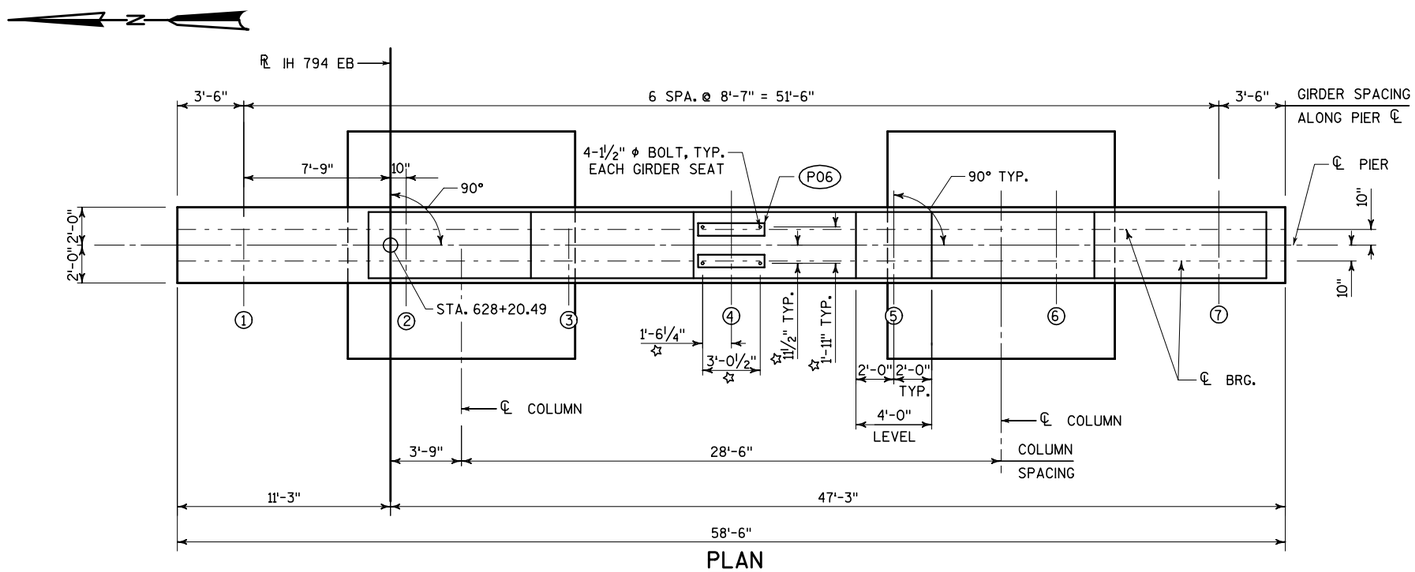


ELEVATION

(LOOKING EAST-SHOWING DIMENSIONS)



END ELEVATION



PLAN

NOTES

- (P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.
- (P02) CIP 16" DIAM. PILING AT 215 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 135'.
- (P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 383.
- (P06) 1½" THICK MASONRY PLATE, SEE "PRESTRESSED GIRDER BEARINGS" SHEET FOR DETAILS.
- * ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.
- ☆ DIMENSIONS ARE GIVEN TO THE ℄ OF ANCHOR BOLTS.

NO.	DATE	REVISION	BY

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STRUCTURE B-40-1312 (003)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P7-003

SHEET 176 OF 396

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STATE PROJECT NUMBER
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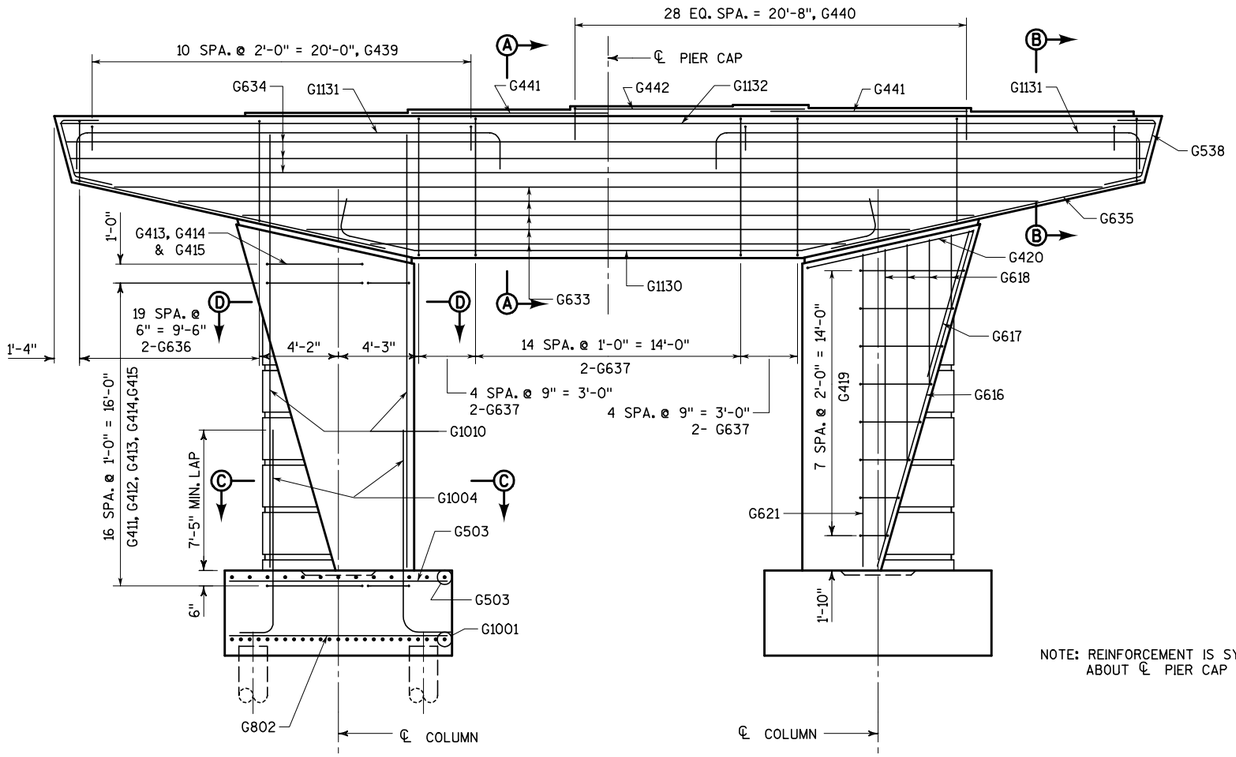
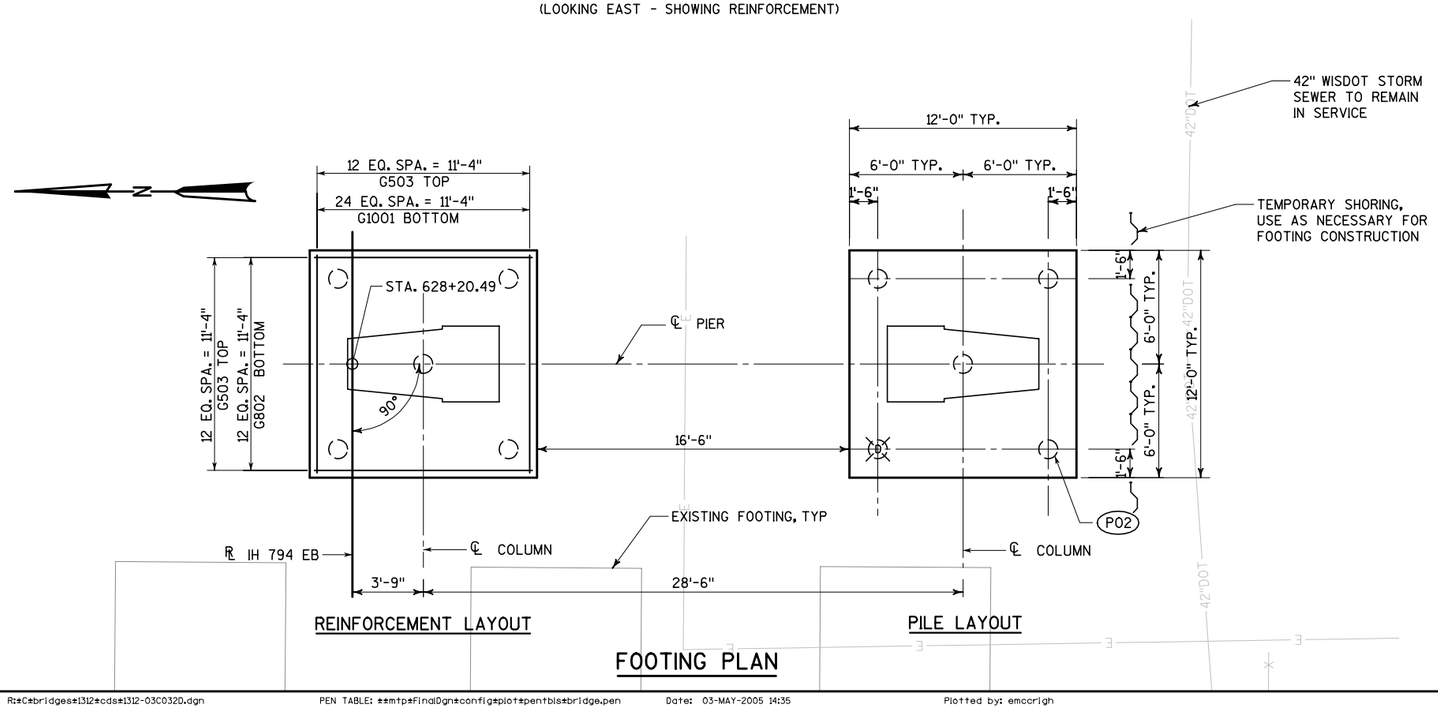


NOTE: REINFORCEMENT IS SYMMETRIC ABOUT ℄ PIER CAP

ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)



REINFORCEMENT LAYOUT

PILE LAYOUT

FOOTING PLAN

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 215 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 135'.

(D) DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P7-003 REINF. LAYOUT

SHEET 177 OF 396

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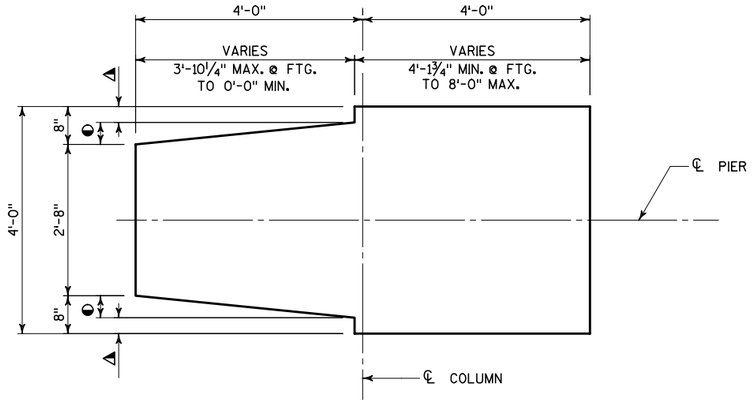
STATE PROJECT NUMBER

1060-05-75

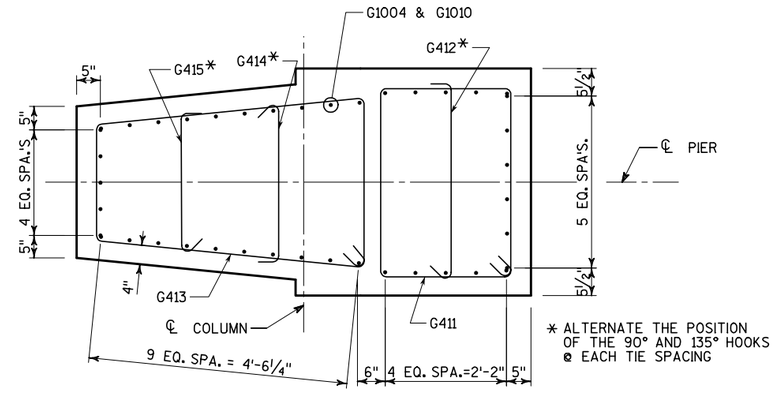


SECTION THRU COLUMN

(SHOWING DIMENSIONS)

◑ VARIES 4⅝" MAX. @ FTG. TO 0" MIN.

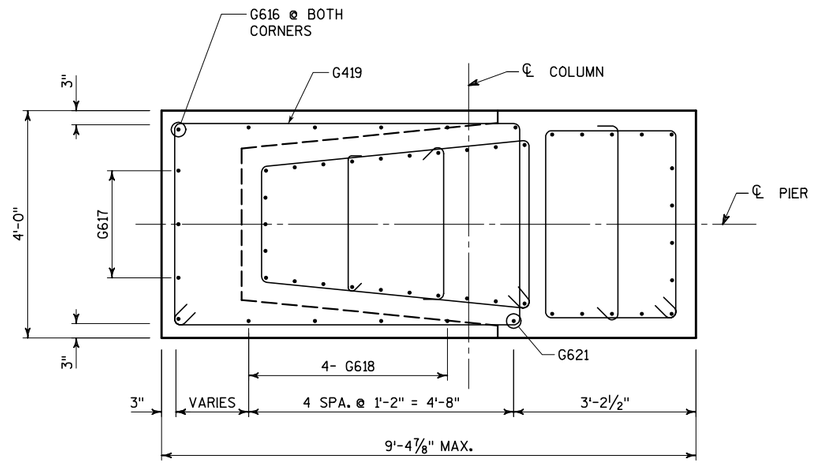
◭ VARIES 3⅜" MIN. @ FTG. TO 8" MAX.



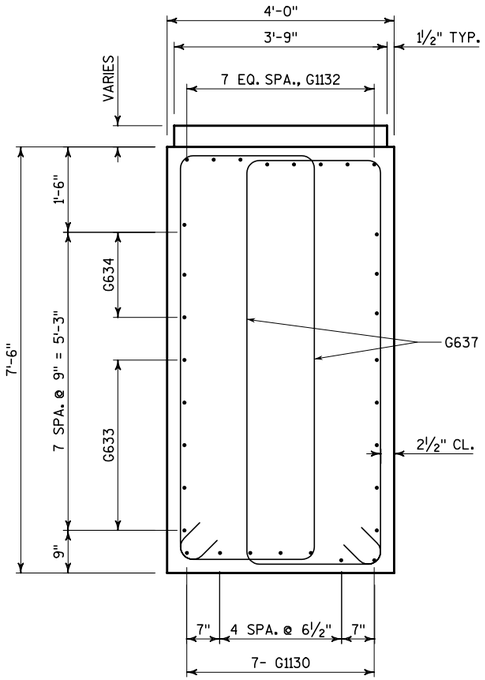
* ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS @ EACH TIE SPACING

SECTION C-C

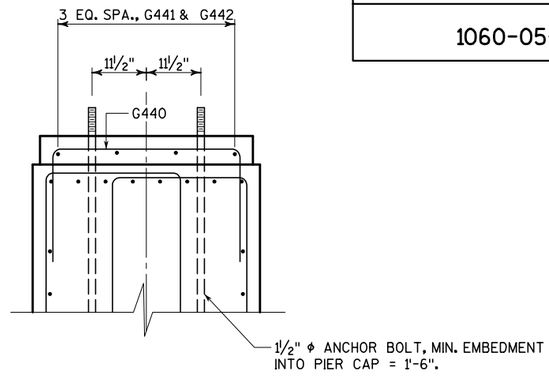
(SHOWING REINFORCEMENT)



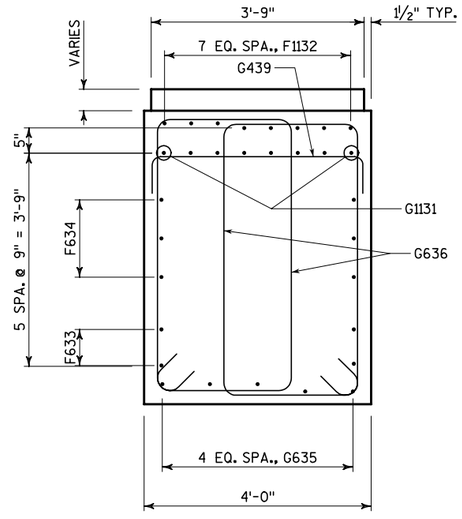
SECTION D-D



SECTION A-A



SECTION THRU GIRDER SEAT



SECTION B-B

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

PIER P7-003 DETAILS

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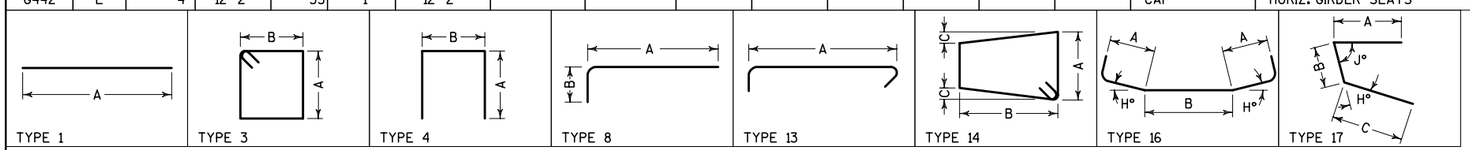
8

STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
G1001		50	11'-6"	2474	1	11'-6"									FOOTING	BOTTOM
G802		26	11'-6"	798	1	11'-6"									FOOTING	BOTTOM
G503		52	11'-6"	624	1	11'-6"									FOOTING	TOP
G1004	E	74	12'-7"	4007	8	11'-1"									FOOTING	DOWEL
G1010	E	74	22'-10"	7271	1	22'-10"									COLUMN	VERTICAL
G411	E	34	11'-10"	269	3	3'-4"	2'-4"								COLUMN	TIES
G412	E	34	4'-0"	91	13	3'-4"									COLUMN	TIES
G413	E	36	15'-1"	363	14	3'-0"	4'-9"	6"							COLUMN	TIES
G414	E	36	3'-4"	80	13	2'-8½"									COLUMN	TIES
G415	E	36	3'-1"	74	13	2'-5"									COLUMN	TIES
G616	E	4	18'-6"	111	1	18'-6"									COLUMN	VERTICAL
G617	E	6	8'-0"	72	1	8'-0"									COLUMN	VERTICAL
G618	E	4 series of 4	15'-4" to 3'-10"	230	1	15'-4" to 3'-10" by 3'-10"									COLUMN	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
G419	E	2 series of 8	18'-7" to 10'-7"	156	3	5'-5½" to 1'-5½" by 6⅞"	3'-7"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
G420	E	2	26'-1"	35	3	9'-2½"	3'-7"								COLUMN	TIES
G621	E	4	16'-6"	99	1	16'-6"									COLUMN	VERTICAL
G1130	E	7	32'-0"	1190	16	4'-2"	20'-5"						12.49		CAP	BOTTOM
G1131	E	16	24'-10"	2111	4	1'-11½"	21'-8"								CAP	TOP
G1132	E	8	57'-10"	2458	1	57'-10"									CAP	TOP
G633	E	2 series of 5	25'-1" to 52'-2"	580	1	25'-1" to 52'-2" by 6'-9¼"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
G634	E	2 series of 3	56'-5" to 57'-3"	512	1	56'-5" to 57'-3" by 5"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
G635	E	10	16'-9"	252	1	16'-9"									CAP	BOTTOM @ ENDS
G636	E	4 series of 20	15'-11" to 11'-9"	1665	3	5'-3" to 3'-2" by 1⅜"	2'-5"								CAP	STIRRUPS @ ENDS, BUNDLE AND TAG EACH SERIES SEPARATELY
G637	E	46	19'-7"	1353	3	7'-1"	2'-5"								CAP	STIRRUPS
G538	E	10	7'-0"	73	17	2'-0"	3'-2"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
G439	E	22	4'-8"	69	4	8"	3'-7"								CAP	TIE
G440	E	29	7'-1"	137	4	2'-0"	3'-4"								CAP	VERTICAL GIRDER SEATS
G441	E	8	10'-4"	55	1	10'-4"									CAP	HORIZ. GIRDER SEATS
G442	E	4	12'-2"	33	1	12'-2"									CAP	HORIZ. GIRDER SEATS



TYPE 1 | TYPE 3 | TYPE 4 | TYPE 8 | TYPE 13 | TYPE 14 | TYPE 16 | TYPE 17

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

TOTAL NON-EPOXY REINFORCEMENT	WT (LB)	3897
TOTAL EPOXY REINFORCEMENT	WT (LB)	23347

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P7-003
REINF. SCHEDULE

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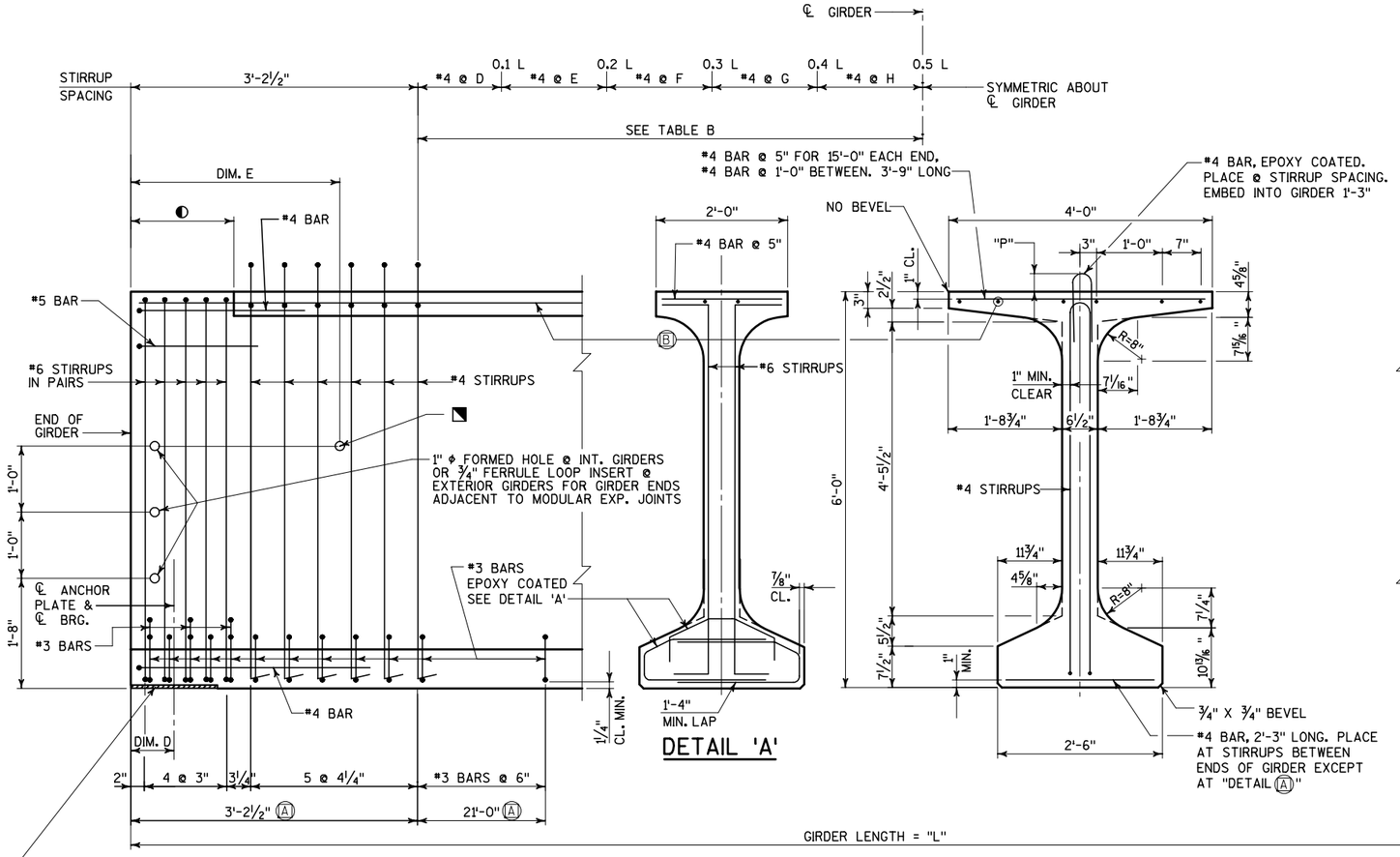

TABLE C - DRAIN INSERT LOCATIONS

SPAN	GIRDER NO.	GIRDER END	PIER	DIM E
2	1 & 7	UPSTATION	P2-003	2'-5"
4	1 & 7	DOWNSTATION	P3-003	2'-5"
5	1 & 7	UPSTATION	P5-003	2'-5"
8	1 & 7	DOWNSTATION	P7-003	2'-5"

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NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY FOR BONDING TO THE SLAB, EXCEPT THE OUTSIDE 15" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH. AN APPROVED LIQUID BOND BREAKER SHALL BE APPLIED TO THE TOP SURFACE OF THE GIRDER EXCEPT FOR THE CENTER 18". APPLY NO MORE THAN 7 DAYS PRIOR TO POURING THE DECK.

NOX-CRETE:
SILCOSEAL 2000 F (2 COATS)
MASTER BUILDERS:
FIRST COAT - PRECO FORM-COTE
SECOND COAT - RHEOFINISH 220

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS.

PRESTRESSING STRANDS SHALL BE 0.6" ϕ - 7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 PSI AND SHALL BE FLUSH WITH THE ENDS OF THE GIRDER.

BEND EACH END OF #4 STIRRUPS 4½" AND #6 STIRRUPS 9".

FOR DIAPHRAGM INSERT & CONNECTION DETAILS, SEE "STEEL DIAPHRAGM" SHEET. FOR LOCATION OF INSERTS, SEE "GIRDER FRAMING PLAN" SHEETS.

FOR THREADED INSERT & FORMED HOLE LOCATIONS & DETAILS AT CONCRETE DIAPH'S, SEE "SUPERSTRUCTURE DETAILS" SHEETS.

ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT. IF THE FABRICATOR WANTS TO BUILD A BAR STEEL CAGE BY WELDING LONGITUDINAL REINFORCEMENT TO THE #4 STIRRUPS, 2 OPTIONS ARE AVAILABLE:

1. USE ASTM A706, GRADE 60 REINFORCEMENT AND THE STIRRUP SPACING AS SHOWN ON THE PLANS.
2. USE ASTM A615, GRADE 40 REINFORCEMENT AND A MODIFIED STIRRUP SPACING SUBMITTED TO AND APPROVED BY THE STRUCTURES DEVELOPMENT SECTION.

AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION.

WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ASTM A497.

ENDS OF STRANDS SHALL BE PAINTED WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER AT GIRDER ENDS THAT ARE EXPOSED.

ALL PRESTRESSED GIRDERS SHALL BE 60 DAYS OLD BEFORE THE DECK AND CONCRETE DIAPHRAGMS ARE POURED.

SIDE VIEW & TYP. SECTION IN SPAN

Ⓐ DETAIL TYP. AT EACH END

Ⓑ #6 BARS, FULL LENGTH, MIN. LAP = 3'-2"

◐ TOP FLANGE BLOCK OUT, SEE DETAILS ON SHEET 181

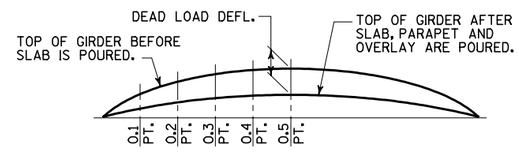
◥ ¾" ϕ ELECTROPLATED FERRULE LOOP INSERT (MEDIUM HIGH CARBON WIRE) OR APPROVED EQUAL. SEE TABLE C, DECK PLAN SHEETS AND PIER DRAIN SHEETS FOR LOCATIONS AND DETAILS OF INSERT.

TABLE A - ANCHOR PLATE DETAILS

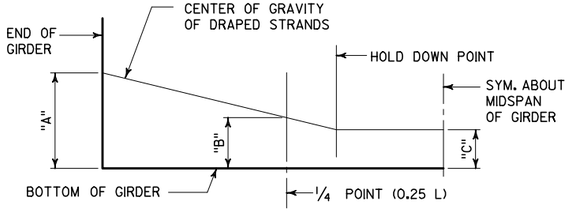
PIER NO.	DIM. D	ANCHOR PLATE DIM'S
P1-003, P2-003, P6-003 & P7-003	8½"	½" x 1'-5" x 2'-4½"
P6-002 & P1-004	9"	½" x 1'-6" x 2'-4½"

TABLE B - STIRRUP SPACING

SPAN	MAX. SPACING				
	D	E	F	G	H
1	8"	12"	14"	14"	15"
2	8"	12"	12"	12"	18"
3 & 4	8"	12"	14"	14"	18"
5 & 6	10"	12"	15"	15"	18"
7	10"	14"	16"	16"	18"
8	9"	14"	16"	16"	18"



DEAD LOAD DEFLECTION DIAGRAM



DRAPED STRAND PROFILE

GIRDER DATA

SPAN	GIRDER NO.	GIRDER LENGTH "L"	DEAD LOAD DEFL. (IN.)					CONC. STRGTH. f'c (p.s.i.)	"P" **	DIA. OF STRAND	DRAPED PATTERN							UNDRAPED PATTERN		TOP FLANGE BLOCK OUT DIM'S	
			0.1	0.2	0.3	0.4	0.5				TOTAL NO. OF STRANDS	f'cI (p.s.i.) *	(IN.) "A"	"B" MIN.	"B" MAX.	"C"		TOTAL NO. OF STRANDS	f'cI (p.s.i.) *	Z (IN.)	Y°
1	ALL	134'-4½"	¾"	1⅜"	1⅞"	2⅛"	2¼"	8,000	VARIES	0.6"	38	6,000	65	20	23	5		—	—	▲ 12	90
2	ALL	144'-9"	1"	1⅞"	2⅜"	2¾"	2⅞"	8,000	VARIES	0.6"	40	6,000	64	20½	23½	6		—	—	12	90
3	ALL	134'-9"	¾"	1⅜"	1¾"	2"	2⅛"	8,000	7"	0.6"	34	6,000	65	20	23	5		—	—	12	90
4,5,6	ALL	126'-11"	⅝"	1⅛"	1⅜"	1⅝"	1⅝"	8,000	7"	0.6"	28	6,000	64	19	22	4		—	—	12	90
6	ALL	126'-11"	⅝"	1⅛"	1½"	1⅝"	1¾"	8,000	7"	0.6"	28	6,000	64	19	22	4		—	—	12	90
7	ALL	94'-7"	⅛"	¼"	⅜"	½"	½"	8,000	7"	0.6"	—	—	—	—	—	—		20	6,000	12	90
8	ALL	124'-4½"	⅝"	1"	1⅜"	1⅝"	1⅝"	8,000	7"	0.6"	30	6,000	64	20½	23½	6		—	—	▲ 12	90

▲ BLOCK OUT DIM. Z ADJACENT TO MODULAR JOINTS SHALL BE 1'-11"

* MINIMUM CYLINDER STRENGTH OF CONCRETE AT TIME OF TRANSFER OF PRESTRESS FORCE.

** FOR STIRRUP EXTENSION, SEE DETAIL ON 72W" PRESTRESSED GIRDER DETAILS 2.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC. 2004 | DRAWN BY RWN | PLANS CK'D. KES

72W" PRESTRESSED GIRDER DETAILS 1

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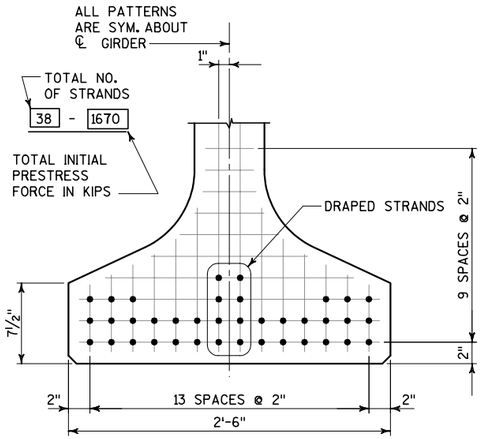
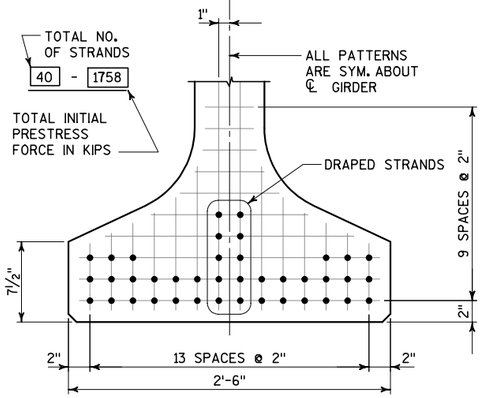
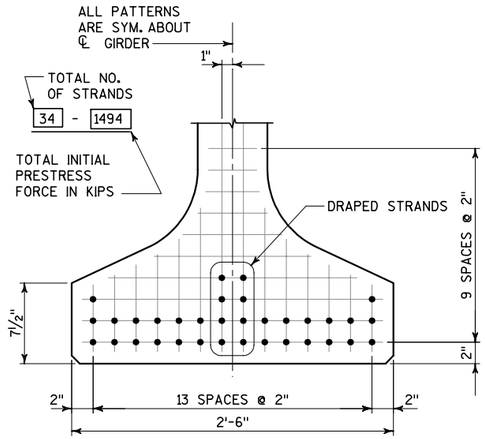


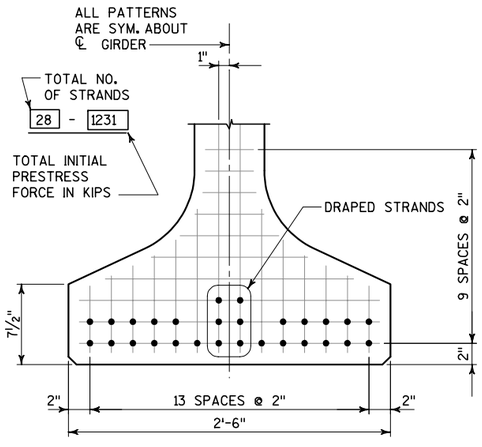
TYP. STRAND PATTERN SPAN 1



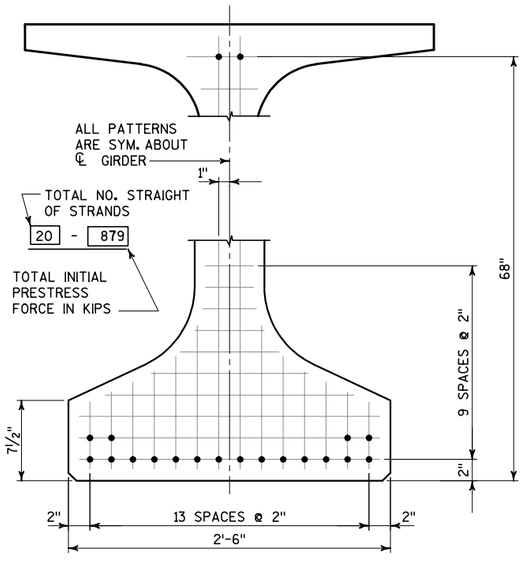
TYP. STRAND PATTERN - SPAN 2



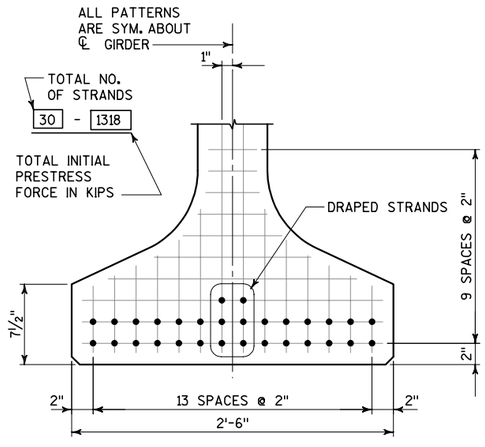
TYP. STRAND PATTERN SPAN 3



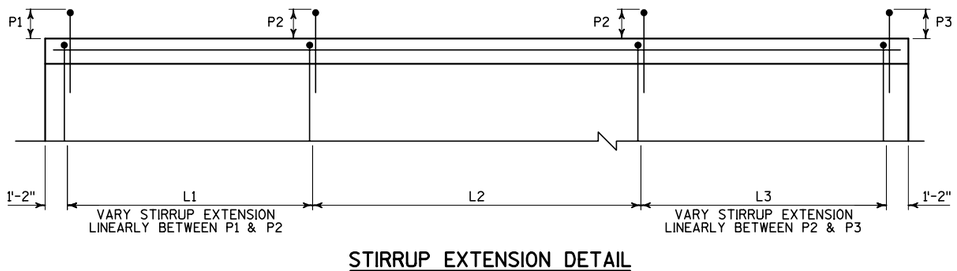
TYP. STRAND PATTERN SPAN 4 THRU 6



TYP. STRAND PATTERN - SPAN 7

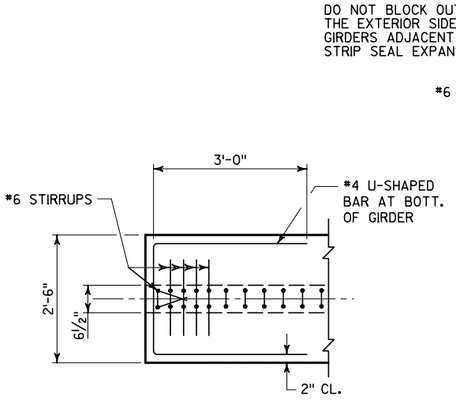


TYP. STRAND PATTERN SPAN 8

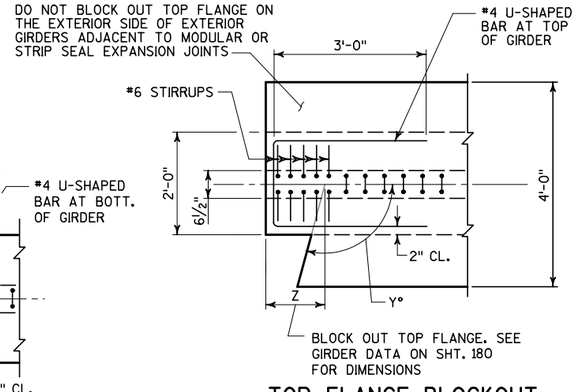


STIRRUP EXTENSION DETAIL

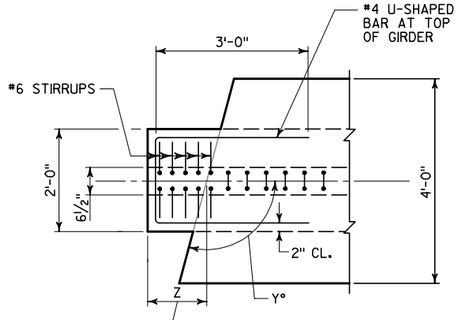
SPAN	GIRDERS	GIRDER LENGTH	L1	L2	L3	P1	P2	P3
1	ALL	134'-4½"	26'-6"	81'-4½"	26'-6"	8"	7"	8"
2	ALL	144'-9"	28'-7"	117'-2"	0'-0"	8"	7"	=



BOTTOM FLANGE AT GIRDER ENDS



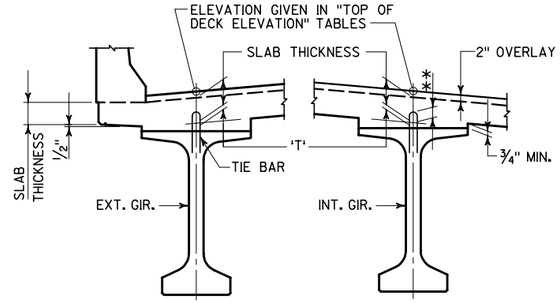
TOP FLANGE BLOCKOUT AT EXTERIOR GIRDER ENDS ADJACENT TO EXPANSION JTS



TOP FLANGE BLOCKOUT AT GIRDER ENDS

STATE PROJECT NUMBER

1060-05-75



SLAB HAUNCH DETAIL

IF ¾" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR. THE PLAN SLAB THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN ½" OR,

** IF 3" MINIMUM DECK EMBEDMENT OF THE TIE BAR CANNOT BE OBTAINED.

TO DETERMINE 'T', ELEV. OF TOP OF GIRDERS AT ℄ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF GIRDER ELEVATION
+ DEAD LOAD DEFLECTION
- SLAB THICKNESS

= HAUNCH HEIGHT 'T'

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC. 2004 | DRAWN BY EKM | PLANS CK'D. KES

72W" PRESTRESSED GIRDER DETAILS 2

SHEET 181 OF 396

3049

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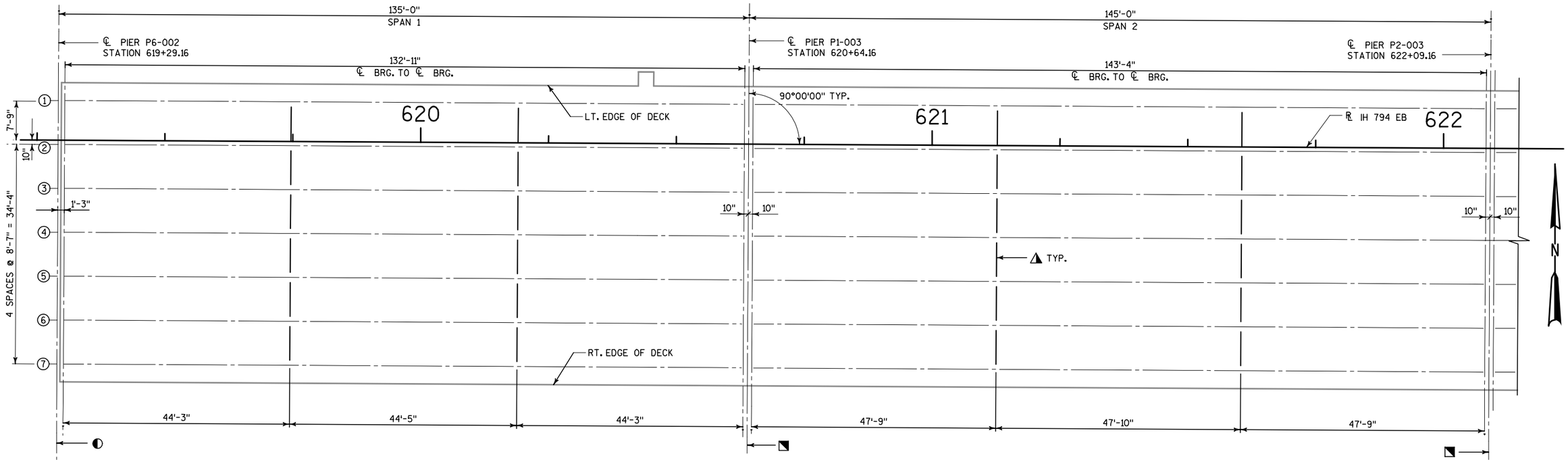
STATE PROJECT NUMBER
1060-05-75



GIRDER FRAMING PLAN

DECK EDGE DIMENSIONS FROM ℄ IH 794 EB		
STATION	LEFT EDGE	RIGHT EDGE
619+29.16	11'-3"	47'-3"
619+50.00	11'-3"	47'-3"
619+75.00	11'-3"	47'-3"
620+00.00	11'-3"	47'-3"
620+25.00	11'-3"	47'-3"
620+50.00	11'-3"	47'-3"
620+64.16	11'-3"	47'-3"
620+75.00	11'-3"	47'-3"
621+00.00	11'-3"	47'-3"
621+25.00	11'-3"	47'-3"
621+50.00	11'-3"	47'-3"
621+75.00	11'-3"	47'-3"
622+00.00	11'-3"	47'-3"
622+09.16	11'-3"	47'-3"

LEGEND

△ INTERMEDIATE STEEL DIAPHRAGM, TYP. DIAPHRAGMS ARE PARALLEL TO ℄ PIER UNLESS OTHERWISE NOTED. SEE SHT. 354 FOR DETAILS

◥ ℄ EXPANSION PIER DIAPHRAGM, SEE SHT. 191 FOR DETAILS

◐ ℄ MODULAR EXPANSION JT. SEE SHT. 192 FOR DIAPHRAGM DETAILS AND SHEETS 365-368 FOR MODULAR JT. DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	RWN	KES

GIRDER FRAMING PLAN 1

SHEET 182 OF 396

3050

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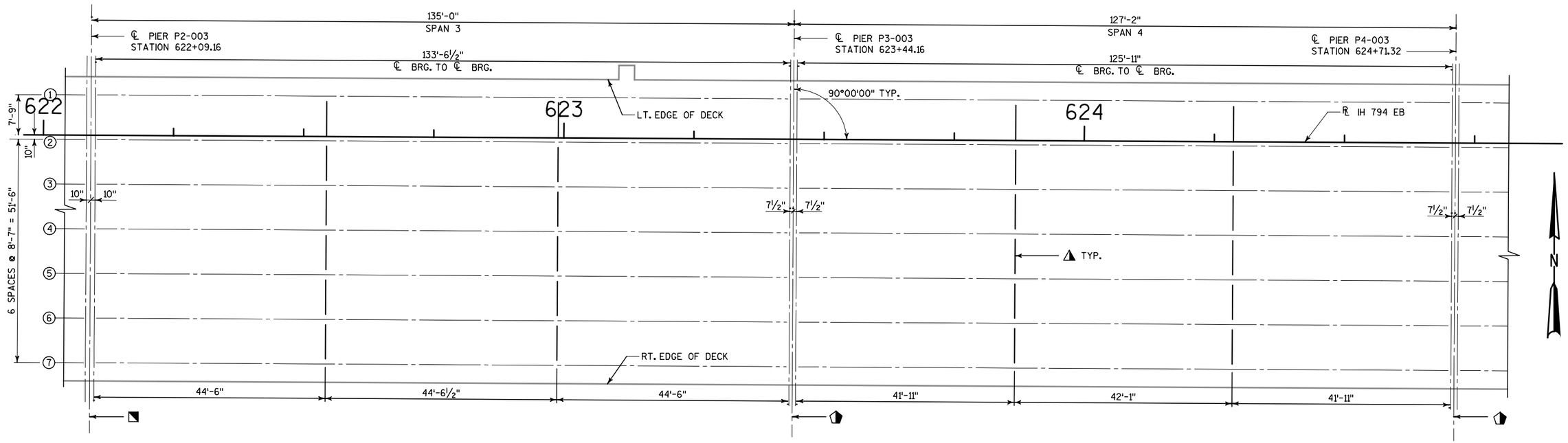
STATE PROJECT NUMBER
1060-05-75



GIRDER FRAMING PLAN

DECK EDGE DIMENSIONS FROM ℞ IH 794 EB		
STATION	LEFT EDGE	RIGHT EDGE
622+09.16	11'-3"	47'-3"
622+25.00	11'-3"	47'-3"
622+50.00	11'-3"	47'-3"
622+75.00	11'-3"	47'-3"
623+00.00	11'-3"	47'-3"
623+25.00	11'-3"	47'-3"
623+44.16	11'-3"	47'-3"
623+50.00	11'-3"	47'-3"
623+75.00	11'-3"	47'-3"
624+00.00	11'-3"	47'-3"
624+25.00	11'-3"	47'-3"
624+50.00	11'-3"	47'-3"
624+71.32	11'-3"	47'-3"

LEGEND

- ⧋ INTERMEDIATE STEEL DIAPHRAGM, TYP. DIAPHRAGMS ARE PARALLEL TO ℄ PIER UNLESS OTHERWISE NOTED. SEE SHT. 354 FOR DETAILS
- ⬟ ℄ FIXED PIER DIAPHRAGM, SEE SHT. 191 FOR DETAILS
- ◥◣ ℄ EXPANSION PIER DIAPHRAGM, SEE SHT. 191 FOR DETAILS

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC. 2004	DRAWN BY RWN	PLANS CK'D. KES

GIRDER FRAMING PLAN 2

SHEET 183 OF 396

3051

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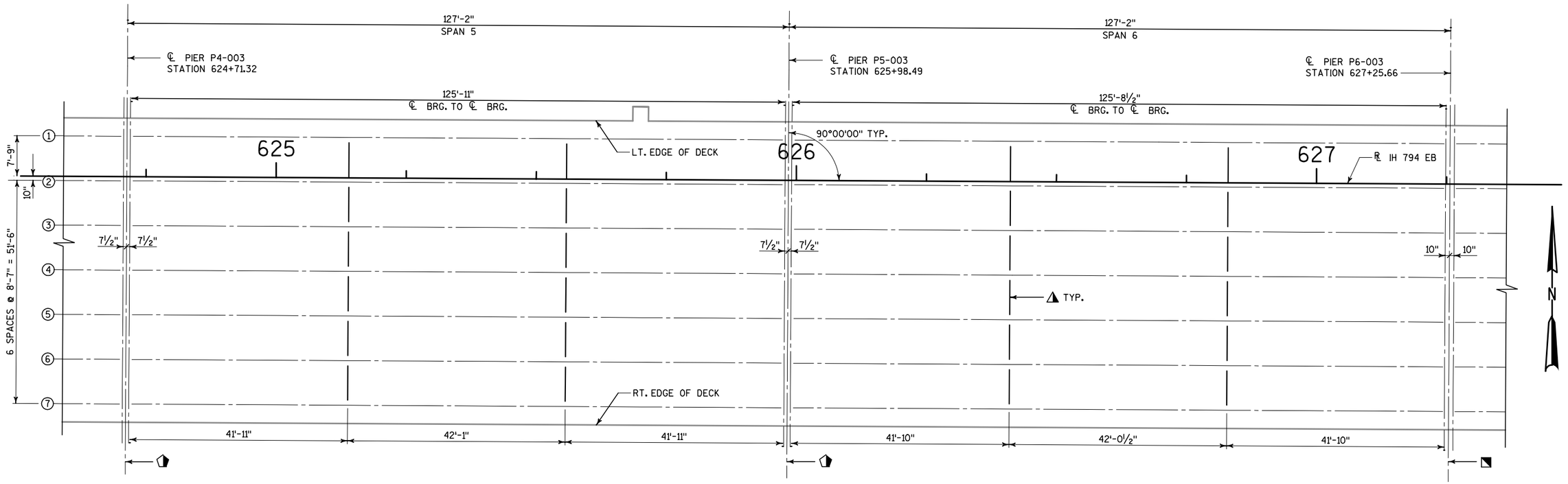
STATE PROJECT NUMBER
1060-05-75



GIRDER FRAMING PLAN

DECK EDGE DIMENSIONS FROM ℞ IH 794 EB		
STATION	LEFT EDGE	RIGHT EDGE
624+71.32	11'-3"	47'-3"
624+75.00	11'-3"	47'-3"
625+00.00	11'-3"	47'-3"
625+25.00	11'-3"	47'-3"
625+50.00	11'-3"	47'-3"
625+75.00	11'-3"	47'-3"
625+98.49	11'-3"	47'-3"
626+00.00	11'-3"	47'-3"
626+25.00	11'-3"	47'-3"
626+50.00	11'-3"	47'-3"
626+75.00	11'-3"	47'-3"
627+00.00	11'-3"	47'-3"
627+25.00	11'-3"	47'-3"
627+25.66	11'-3"	47'-3"

LEGEND

▲ INTERMEDIATE STEEL DIAPHRAGM, TYP. DIAPHRAGMS ARE PARALLEL TO ℄ PIER UNLESS OTHERWISE NOTED. SEE SHT. 354 FOR DETAILS

⬟ ℄ FIXED PIER DIAPHRAGM, SEE SHT. 191 FOR DETAILS

◥◣ ℄ EXPANSION PIER DIAPHRAGM, SEE SHT. 191 FOR DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC. 2004	DRAWN BY RWN	PLANS CK'D. KES

GIRDER FRAMING PLAN 3

SHEET 184 OF 396

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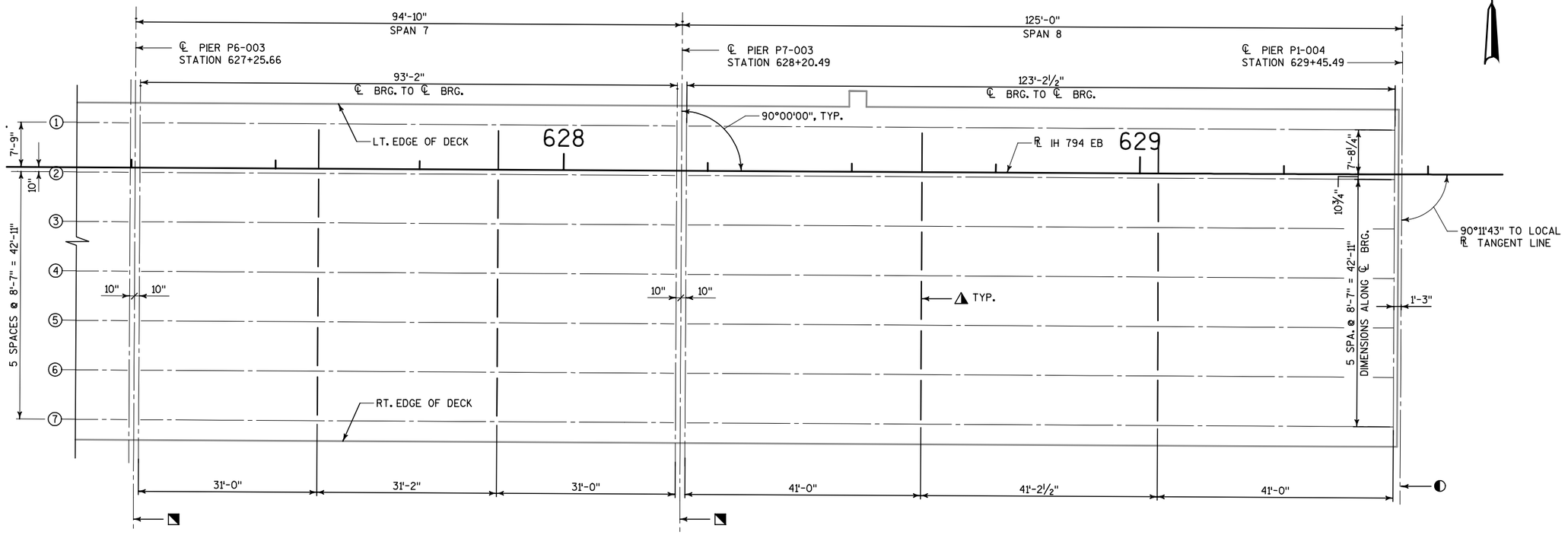
STATE PROJECT NUMBER
1060-05-75



GIRDER FRAMING PLAN

DECK EDGE DIMENSIONS FROM ℞ IH 794 EB		
STATION	LEFT EDGE	RIGHT EDGE
627+25.66	11'-3"	47'-3"
627+50.00	11'-3"	47'-3"
627+75.00	11'-3"	47'-3"
628+00.00	11'-3"	47'-3"
628+20.49	11'-3"	47'-3"
628+25.00	11'-3"	47'-3"
628+50.00	11'-3"	47'-3"
628+75.00	11'-3"	47'-3"
629+00.00	11'-3"	47'-3"
629+25.00	11'-3"	47'-3"
629+45.49	11'-3"	47'-3"

NOTES

1. LAYOUT ANGLES SHOWN ARE MEASURED FROM A LINE TANGENT TO ℞ AT ℄ PIER.

LEGEND

- ◭ INTERMEDIATE STEEL DIAPHRAGM, TYP. DIAPHRAGMS ARE PARALLEL TO ℄ PIER UNLESS OTHERWISE NOTED. SEE SHT. 354 FOR DETAILS
- ◥ ℄ EXPANSION PIER DIAPHRAGM, SEE SHT. 191 FOR DETAILS
- ◐ ℄ MODULAR EXPANSION JT. SEE SHT. 192 FOR DIAPHRAGM DETAILS AND SHEETS 365-368 FOR MODULAR JOINT DETAILS

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	RWN	KES

GIRDER FRAMING PLAN 4

SHEET 185 OF 396

3053

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STATE PROJECT NUMBER
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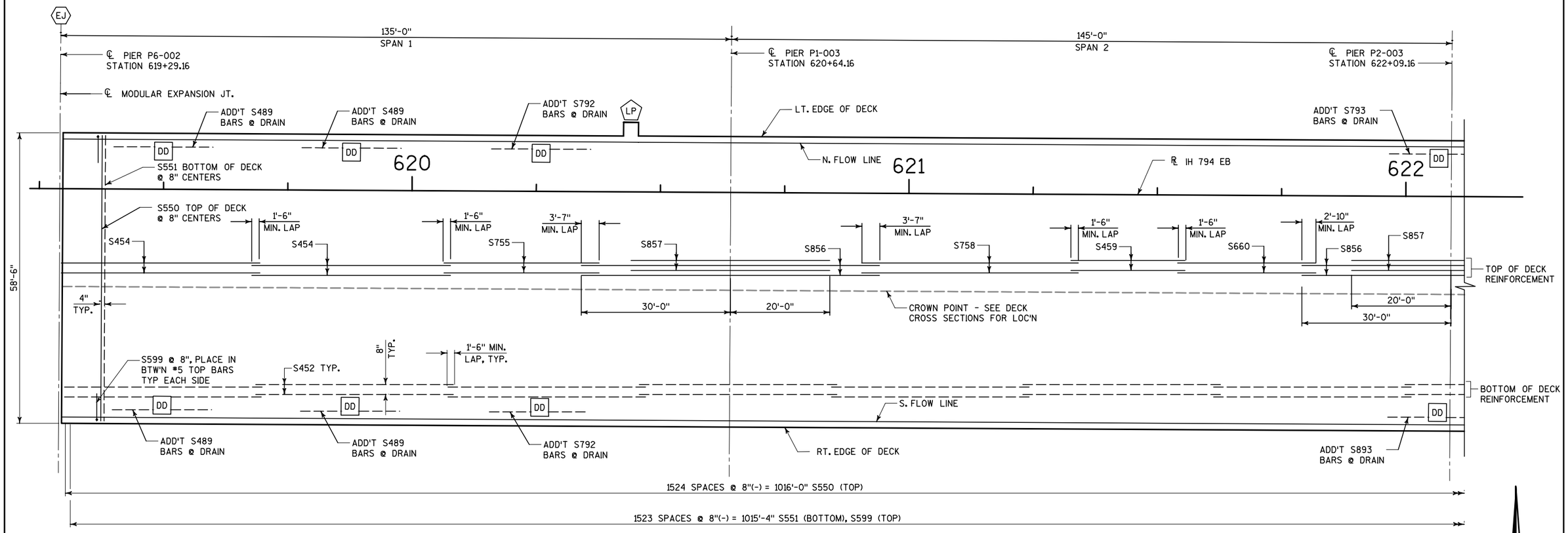

DECK PLAN

DECK FEATURE SUMMARY			
STATION	FEATURE	SIDE	DETAIL SHEETS
619+29.16	EXPANSION JOINT		365-368
619+50.16	DECK DRAIN - TYPE B	LEFT	371-372
619+50.16	DECK DRAIN - TYPE B	RIGHT	371-372
619+88.16	DECK DRAIN - TYPE B	LEFT	371-372
619+88.16	DECK DRAIN - TYPE B	RIGHT	371-372
620+26.16	DECK DRAIN - TYPE B	LEFT	371-372
620+26.16	DECK DRAIN - TYPE B	RIGHT	371-372
620+44.00	LIGHT POLE	LEFT	375-376
622+06.62	DECK DRAIN - TYPE B	LEFT	371-372
622+06.62	DECK DRAIN - TYPE B	RIGHT	371-372

LEGEND

- (EJ) EXPANSION JOINT LOCATION.
- DD DECK DRAIN LOCATION.*
- (LP) LIGHT POLE MOUNTING LOCATION.*

TOP OF DECK ELEVATIONS (GIVEN @ TOP OF OVERLAY)

	℄ PIER P7-002	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P1-003	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P2-003
N. FLOW LINE	619.23	619.17	619.13	619.10	619.09	619.09	619.11	619.14	619.18	619.24	619.32	619.41	619.52	619.65	619.79	619.95	620.13	620.33	620.53	620.74	620.92
GIRDER 1	619.26	619.21	619.17	619.15	619.14	619.14	619.15	619.18	619.23	619.28	619.37	619.46	619.57	619.70	619.84	620.00	620.17	620.36	620.57	620.77	620.98
GIRDER 2	619.44	619.38	619.34	619.32	619.31	619.31	619.33	619.36	619.40	619.46	619.54	619.63	619.75	619.87	620.01	620.17	620.35	620.54	620.74	620.94	621.16
GIRDER 3	619.61	619.55	619.52	619.49	619.48	619.48	619.50	619.53	619.57	619.63	619.71	619.81	619.92	620.04	620.19	620.34	620.52	620.71	620.91	621.11	621.33
GIRDER 4	619.78	619.73	619.69	619.66	619.65	619.65	619.67	619.70	619.74	619.80	619.88	619.98	620.09	620.21	620.36	620.51	620.69	620.88	621.08	621.28	621.50
CROWN	619.91	619.85	619.81	619.78	619.77	619.77	619.79	619.82	619.86	619.92	620.00	620.09	620.20	620.33	620.47	620.63	620.81	621.01	621.21	621.42	621.60
GIRDER 5	619.85	619.79	619.76	619.73	619.72	619.72	619.74	619.77	619.81	619.87	619.95	620.05	620.16	620.28	620.43	620.58	620.76	620.95	621.15	621.35	621.57
GIRDER 6	619.68	619.62	619.58	619.56	619.55	619.55	619.57	619.60	619.64	619.70	619.78	619.88	619.99	620.11	620.25	620.41	620.59	620.78	620.98	621.18	621.40
GIRDER 7	619.50	619.45	619.41	619.39	619.38	619.38	619.39	619.42	619.47	619.52	619.61	619.70	619.81	619.94	620.08	620.24	620.41	620.60	620.81	621.01	621.22
S. FLOW LINE	619.47	619.41	619.37	619.34	619.33	619.33	619.35	619.38	619.42	619.48	619.56	619.65	619.76	619.89	620.03	620.19	620.37	620.57	620.77	620.98	621.16

* SEE DETAIL SHEETS FOR ADDITIONAL DECK REINFORCEMENT REQUIRED IN THIS AREA.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	2004	DRAWN BY	RWN	PLANS CK'D.	KES

DECK PLAN / REINFORCEMENT 1

SHEET 186 OF 396

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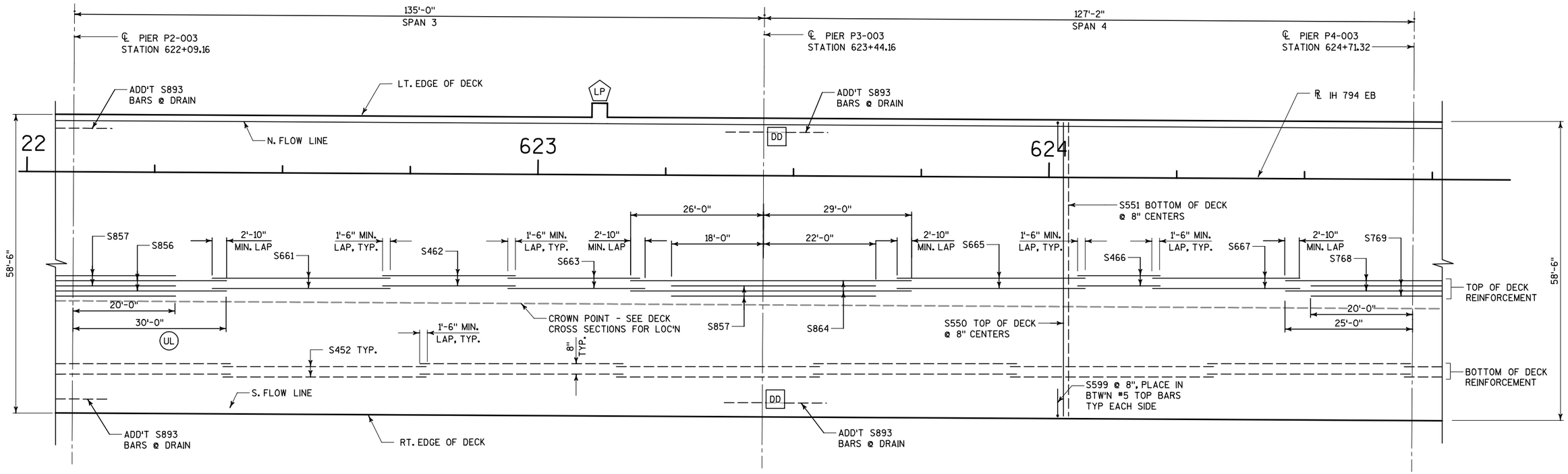
STATE PROJECT NUMBER
1060-05-75



DECK PLAN

DECK FEATURE SUMMARY			
STATION	FEATURE	SIDE	DETAIL SHEETS
623+12.00	LIGHT POLE	LEFT	375-376
622+28.00	UNDERDECK LIGHT ANCHORAGE	RIGHT	396
623+46.70	DECK DRAIN - TYPE B	LEFT	371-372
623+46.70	DECK DRAIN - TYPE B	RIGHT	371-372

TOP OF DECK ELEVATIONS (GIVEN @ TOP OF OVERLAY)

	℄ PIER P2-003	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P3-003	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P4-003
N. FLOW LINE	620.92	621.09	621.25	621.39	621.53	621.65	621.76	621.87	621.96	622.04	622.11	622.17	622.22	622.26	622.29	622.31	622.32	622.32	622.32	622.30	622.27
GIRDER 1	620.98	621.15	621.30	621.44	621.57	621.69	621.81	621.91	622.00	622.08	622.16	622.22	622.27	622.30	622.33	622.35	622.36	622.37	622.36	622.34	622.31
GIRDER 2	621.16	621.32	621.47	621.61	621.74	621.87	621.98	622.08	622.17	622.25	622.33	622.39	622.44	622.48	622.50	622.53	622.54	622.54	622.53	622.52	622.49
GIRDER 3	621.33	621.49	621.64	621.78	621.92	622.04	622.15	622.25	622.34	622.42	622.51	622.56	622.61	622.65	622.68	622.70	622.71	622.71	622.70	622.69	622.66
GIRDER 4	621.50	621.66	621.81	621.96	622.09	622.21	622.32	622.42	622.51	622.60	622.68	622.73	622.78	622.82	622.85	622.87	622.88	622.88	622.88	622.86	622.83
CROWN	621.60	621.77	621.93	622.07	622.21	622.33	622.44	622.55	622.64	622.72	622.79	622.85	622.90	622.94	622.97	622.99	623.00	623.00	623.00	622.98	622.95
GIRDER 5	621.57	621.73	621.88	622.02	622.16	622.28	622.39	622.49	622.58	622.66	622.75	622.80	622.85	622.89	622.92	622.94	622.95	622.95	622.94	622.93	622.90
GIRDER 6	621.40	621.56	621.71	621.85	621.98	622.11	622.22	622.32	622.41	622.49	622.57	622.63	622.68	622.72	622.75	622.77	622.78	622.78	622.77	622.76	622.73
GIRDER 7	621.22	621.39	621.54	621.68	621.81	621.93	622.05	622.15	622.24	622.32	622.40	622.46	622.51	622.54	622.57	622.59	622.61	622.61	622.60	622.59	622.56
S. FLOW LINE	621.16	621.33	621.49	621.63	621.77	621.89	622.00	622.11	622.20	622.28	622.35	622.41	622.46	622.50	622.53	622.55	622.56	622.56	622.56	622.54	622.51

N

LEGEND

DD — DECK DRAIN LOCATION. *

LP — LIGHT POLE MOUNTING LOCATION. *

UL — UNDERDECK LIGHTING ANCHORAGE LOCATION.

* SEE DETAIL SHEETS FOR ADDITIONAL DECK REINFORCEMENT REQUIRED IN THIS AREA.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	2004	DRAWN BY	RWN	PLANS CK'D.	KES

DECK PLAN / REINFORCEMENT 2

SHEET 187 OF 396

3055

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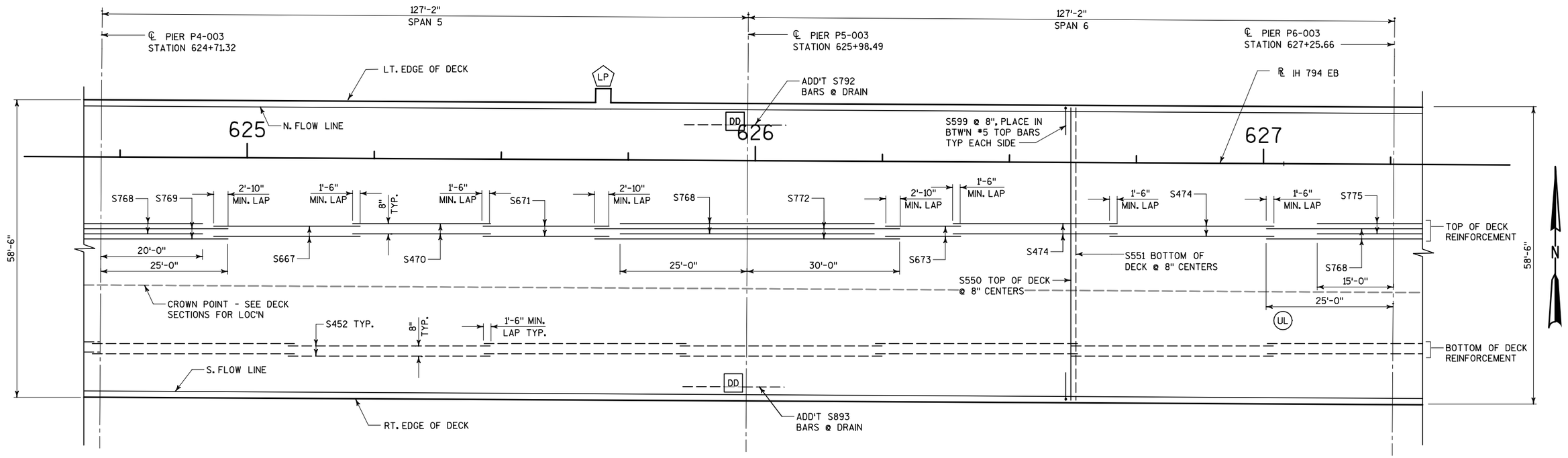
STATE PROJECT NUMBER
1060-05-75



DECK PLAN

DECK FEATURE SUMMARY			
STATION	FEATURE	SIDE	DETAIL SHEETS
625+70.00	LIGHT POLE	LEFT	354-355
625+95.91	DECK DRAIN - TYPE B	LEFT	350-351
625+95.91	DECK DRAIN - TYPE B	RIGHT	350-351
627+04.00	UNDERDECK LIGHT ANCHORAGE	30'-10" RT.	350-351

TOP OF DECK ELEVATIONS (GIVEN @ TOP OF OVERLAY)

	℄ PIER P4-003	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P5-003	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P6-003
N. FLOW LINE	622.27	622.24	622.19	622.14	622.08	622.01	621.92	621.83	621.73	621.62	621.50	621.38	621.24	621.09	620.94	620.77	620.60	620.41	620.22	620.02	619.81
GIRDER 1	622.31	622.28	622.24	622.18	622.12	622.05	621.97	621.88	621.78	621.68	621.54	621.41	621.28	621.13	620.98	620.82	620.65	620.47	620.28	620.08	619.83
GIRDER 2	622.49	622.45	622.41	622.35	622.29	622.22	622.14	622.05	621.95	621.85	621.71	621.58	621.45	621.30	621.15	620.99	620.82	620.64	620.45	620.25	620.00
GIRDER 3	622.66	622.62	622.58	622.53	622.46	622.39	622.31	622.22	622.13	622.02	621.88	621.76	621.62	621.48	621.32	621.16	620.99	620.81	620.62	620.42	620.18
GIRDER 4	622.83	622.79	622.75	622.70	622.64	622.56	622.48	622.40	622.30	622.19	622.05	621.93	621.79	621.65	621.49	621.33	621.16	620.98	620.79	620.59	620.35
CROWN	622.95	622.92	622.87	622.82	622.76	622.69	622.60	622.51	622.41	622.30	622.18	622.06	621.92	621.77	621.62	621.45	621.28	621.09	620.90	620.70	620.49
GIRDER 5	622.90	622.86	622.82	622.77	622.70	622.63	622.55	622.46	622.37	622.26	622.12	622.00	621.86	621.72	621.56	621.40	621.23	621.05	620.86	620.66	620.42
GIRDER 6	622.73	622.69	622.65	622.59	622.53	622.46	622.38	622.29	622.20	622.09	621.95	621.82	621.69	621.54	621.39	621.23	621.06	620.88	620.69	620.49	620.24
GIRDER 7	622.56	622.52	622.48	622.42	622.36	622.29	622.21	622.12	622.02	621.92	621.78	621.65	621.52	621.37	621.22	621.06	620.89	620.71	620.52	620.32	620.07
S. FLOW LINE	622.51	622.48	622.43	622.38	622.32	622.25	622.16	622.07	621.97	621.86	621.74	621.62	621.48	621.33	621.18	621.01	620.84	620.65	620.46	620.26	620.05

LEGEND

DD — DECK DRAIN LOCATION. *

LP — LIGHT POLE MOUNTING LOCATION. *

UL — UNDERDECK LIGHTING ANCHORAGE LOCATION. *

* SEE DETAIL SHEETS FOR ADDITIONAL DECK REINFORCEMENT REQUIRED IN THIS AREA.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	2004	DRAWN BY	RWN	PLANS CK'D.	KES

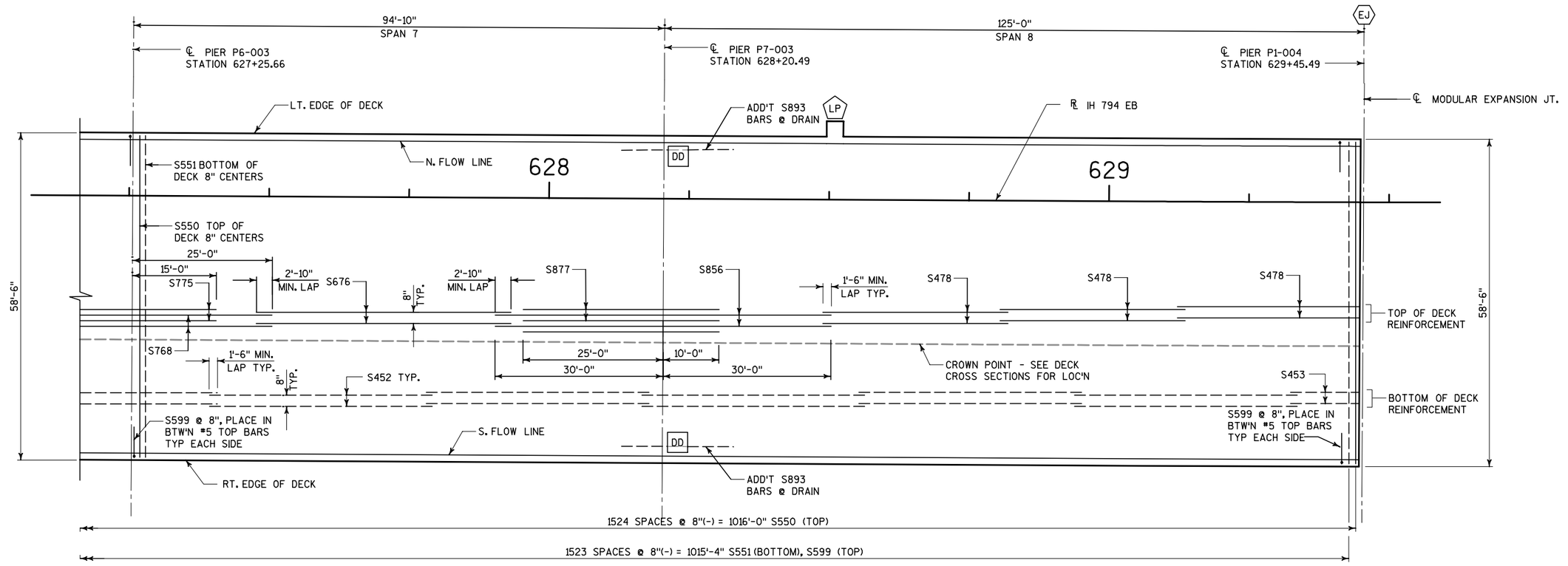
DECK PLAN / REINFORCEMENT 3

SHEET 188 OF 396

3056

8

STATE PROJECT NUMBER
1060-05-75



DECK PLAN

DECK FEATURE SUMMARY			
STATION	FEATURE	SIDE	DETAIL SHEETS
628+23.03	DECK DRAIN - TYPE B	LEFT	371-372
628+23.03	DECK DRAIN - TYPE B	RIGHT	371-372
628+51.00	LIGHT POLE	LEFT	375-376
629+45.49	EXPANSION JOINT		365-368

LEGEND

EJ — EXPANSION JOINT LOCATION.

DD — DECK DRAIN LOCATION. *

LP — LIGHT POLE MOUNTING LOCATION. *

TOP OF DECK ELEVATIONS (GIVEN @ TOP OF OVERLAY)

	℄ PIER P6-003	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P7-003	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P1-004
N. FLOW LINE	619.81	619.64	619.48	619.30	619.12	618.94	618.75	618.55	618.35	618.15	617.94	617.63	617.31	616.98	616.64	616.29	615.93	615.57	615.21	614.88	614.55
GIRDER 1	619.83	619.67	619.51	619.34	619.16	618.98	618.80	618.61	618.41	618.21	617.96	617.65	617.34	617.01	616.68	616.34	615.98	615.62	615.28	614.94	614.63
GIRDER 2	620.00	619.84	619.68	619.51	619.33	619.15	618.97	618.78	618.58	618.38	618.13	617.82	617.51	617.19	616.85	616.51	616.15	615.79	615.45	615.12	614.80
GIRDER 3	620.18	620.02	619.85	619.68	619.51	619.33	619.14	618.95	618.76	618.56	618.30	618.00	617.68	617.36	617.02	616.68	616.33	615.97	615.62	615.29	614.97
GIRDER 4	620.35	620.19	620.02	619.85	619.68	619.50	619.31	619.12	618.93	618.73	618.47	618.17	617.85	617.53	617.20	616.85	616.50	616.14	615.79	615.46	615.14
CROWN	620.49	620.32	620.16	619.98	619.80	619.62	619.43	619.23	619.03	618.83	618.62	618.31	617.99	617.66	617.32	616.97	616.61	616.25	615.89	615.56	615.23
GIRDER 5	620.42	620.26	620.09	619.92	619.75	619.57	619.38	619.19	619.00	618.80	618.54	618.24	617.92	617.60	617.27	616.92	616.57	616.21	615.86	615.53	615.21
GIRDER 6	620.24	620.08	619.92	619.75	619.57	619.39	619.21	619.02	618.82	618.63	618.37	618.06	617.75	617.43	617.09	616.75	616.40	616.04	615.69	615.36	615.04
GIRDER 7	620.07	619.91	619.75	619.58	619.40	619.22	619.04	618.85	618.65	618.45	618.20	617.89	617.58	617.26	616.92	616.58	616.22	615.86	615.52	615.19	614.87
S. FLOW LINE	620.05	619.88	619.72	619.54	619.36	619.18	618.99	618.79	618.59	618.39	618.18	617.87	617.55	617.22	616.88	616.53	616.17	615.81	615.45	615.12	614.79

* SEE DETAIL SHEETS FOR ADDITIONAL DECK REINFORCEMENT REQUIRED IN THIS AREA.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	2004	DRAWN BY	RWN	PLANS CK'D.	KES

DECK PLAN / REINFORCEMENT 4

SHEET 189 OF 396

3057

8

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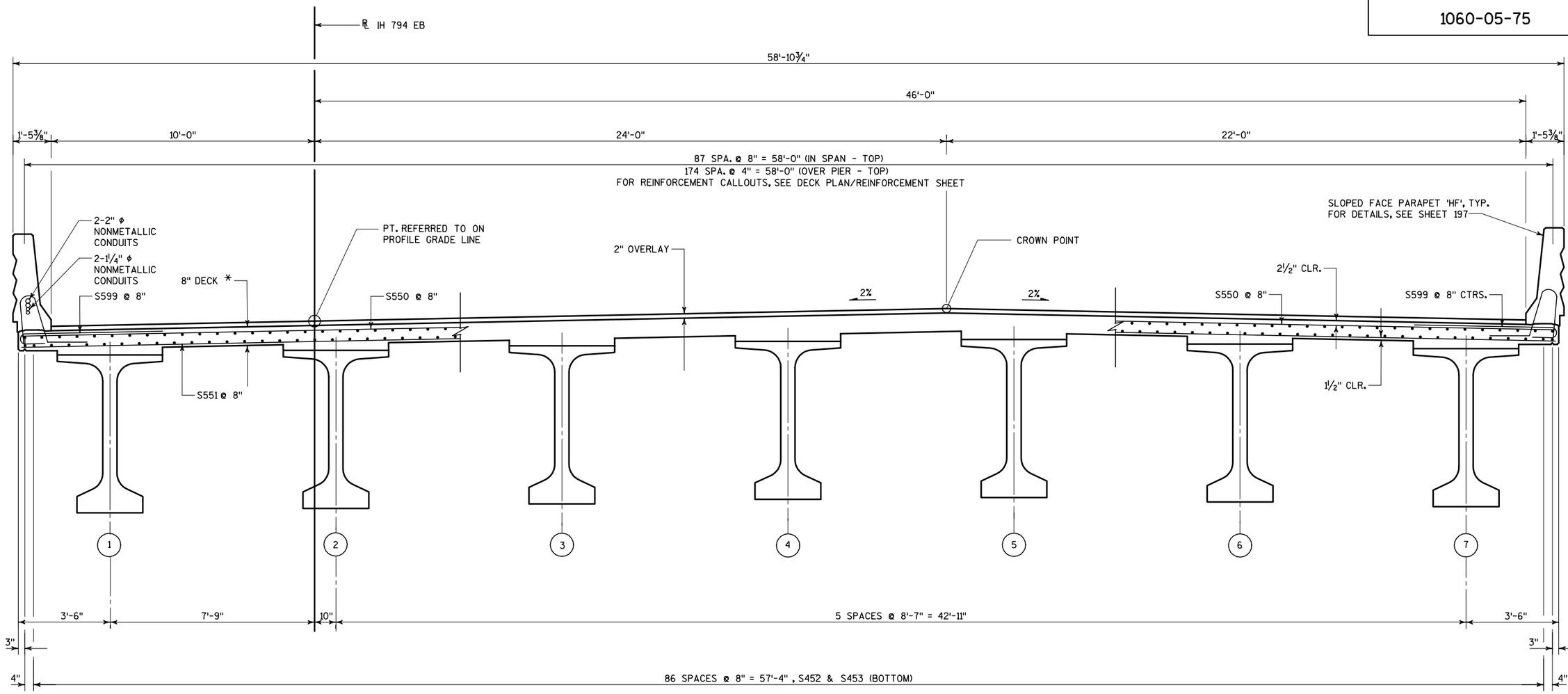
STATE PROJECT NUMBER

1060-05-75



DECK SECTION

(LOOKING EAST)

NOTES

* THE CONTRACTOR HAS THE OPTION TO USE PRECAST CONCRETE DECK PANELS INSTEAD OF TRADITIONAL FORMING METHODS. SEE SHEET 353 FOR DETAILS.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	DJS	KES

DECK CROSS SECTION

SHEET 190 OF 396

3058

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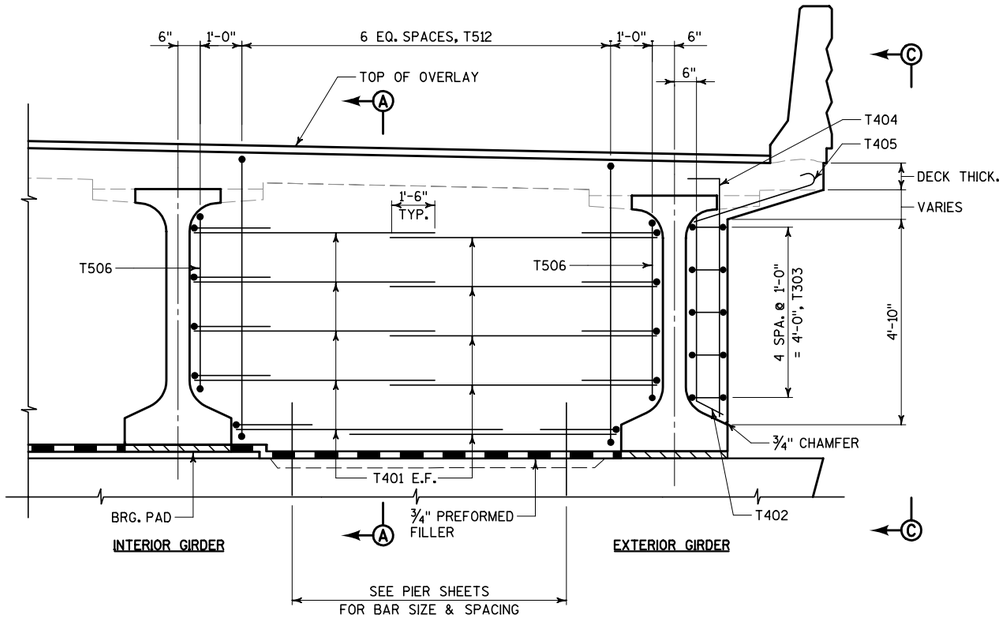
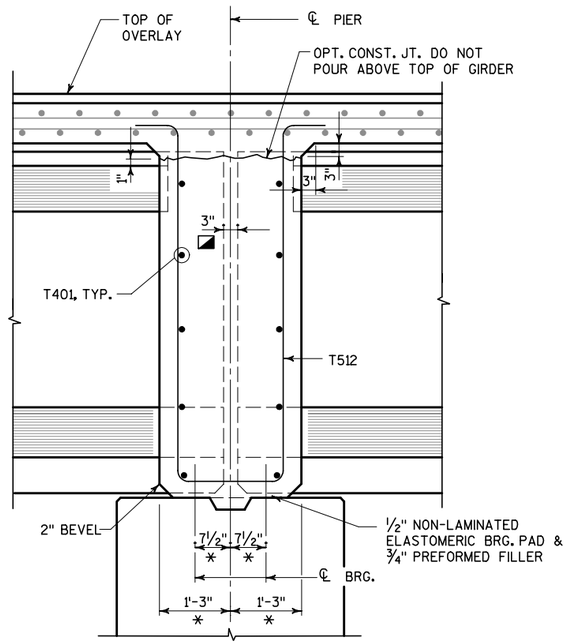
STATE PROJECT NUMBER

1060-05-75

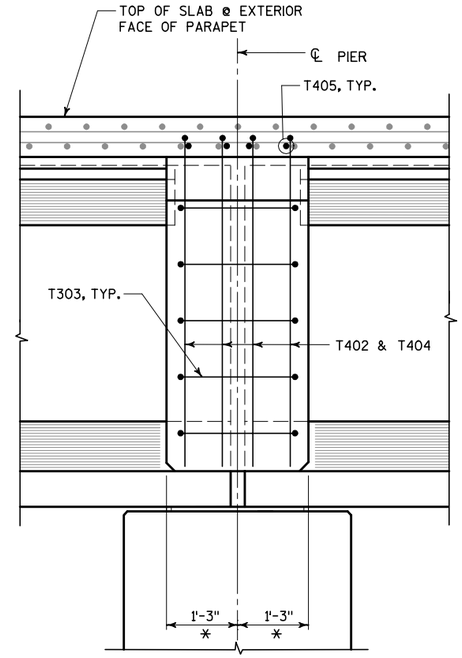


PART TRANSVERSE SECTION AT FIXED PIER DIAPHRAGM

SECTION APPLIES AT PIERS P3-003, P4-003 AND P5-003

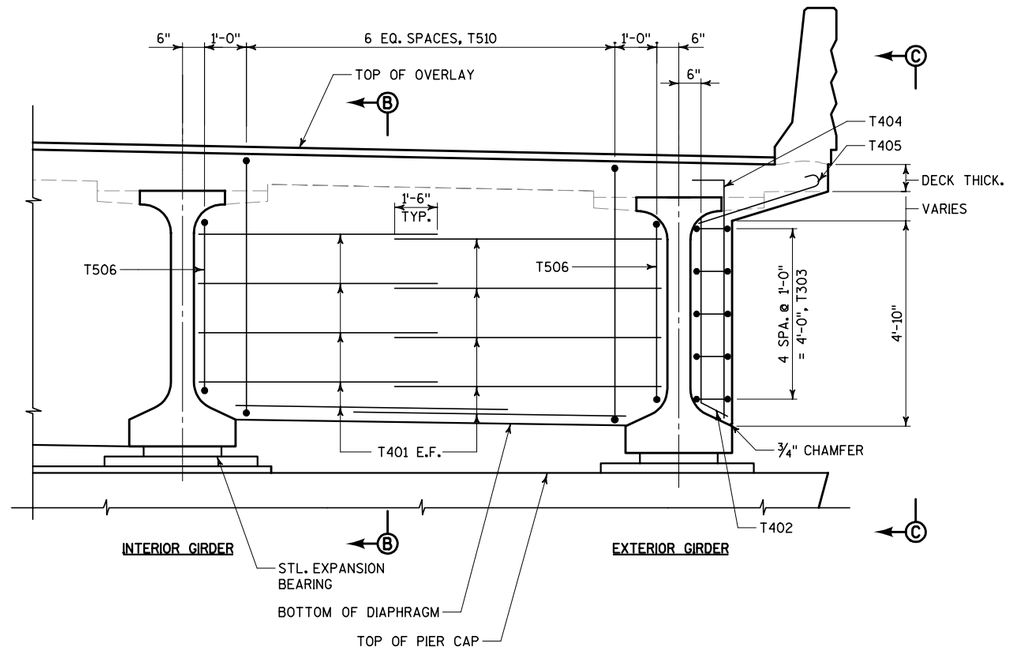


SECTION A-A



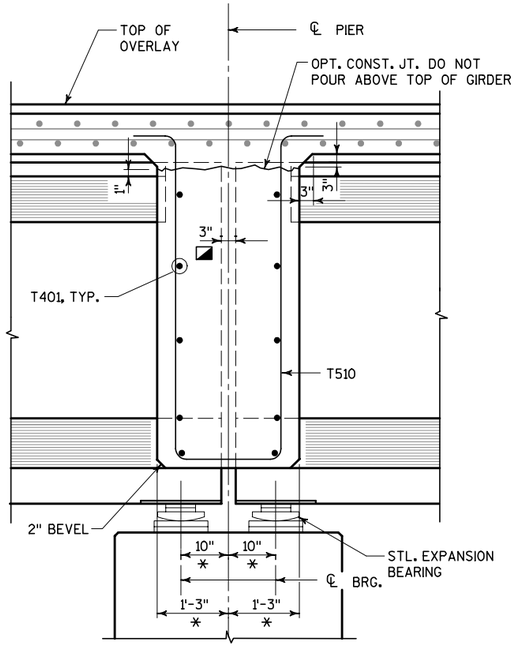
SECTION C-C

(FIXED DIAPHRAGM SHOWN, EXPANSION DIAPHRAGM SIMILAR)



PART TRANSVERSE SECTION AT EXPANSION PIER DIAPHRAGM

SECTION APPLIES AT PIERS P1-003, P2-003, P6-003 AND P7-003



SECTION B-B

LEGEND

* DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS.

◪ DIMENSION IS TAKEN PARALLEL TO ℄ GIRDER.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	RWN	KES

SUPERSTRUCTURE DETAILS 1

SHEET 191 OF 396

3059

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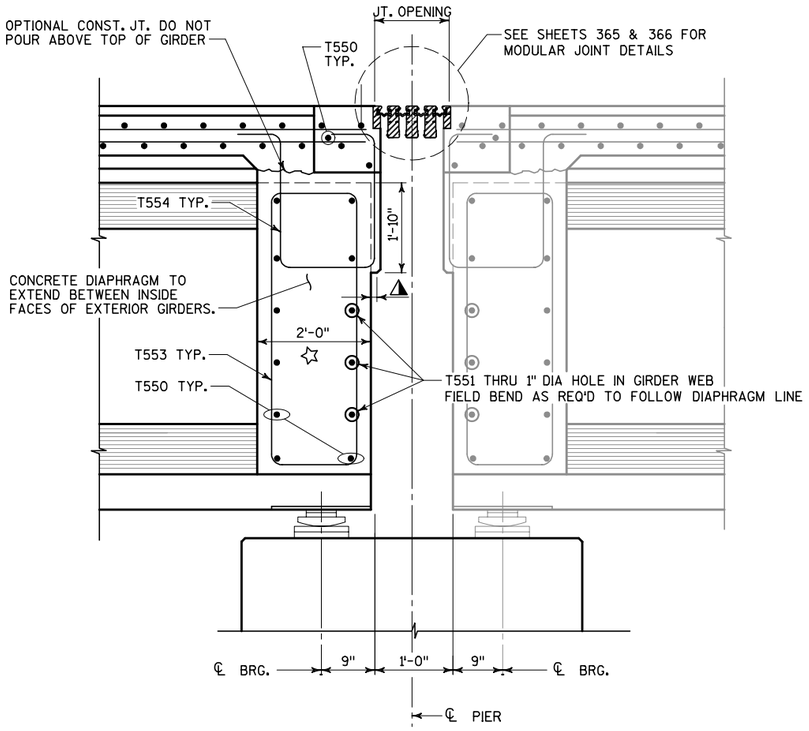
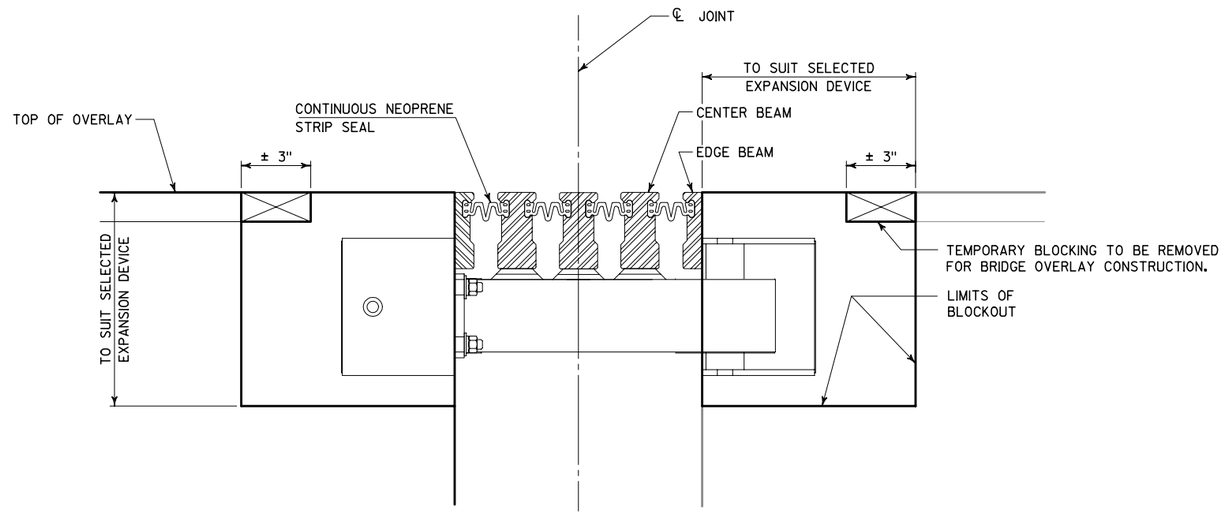
STATE PROJECT NUMBER
1060-05-75

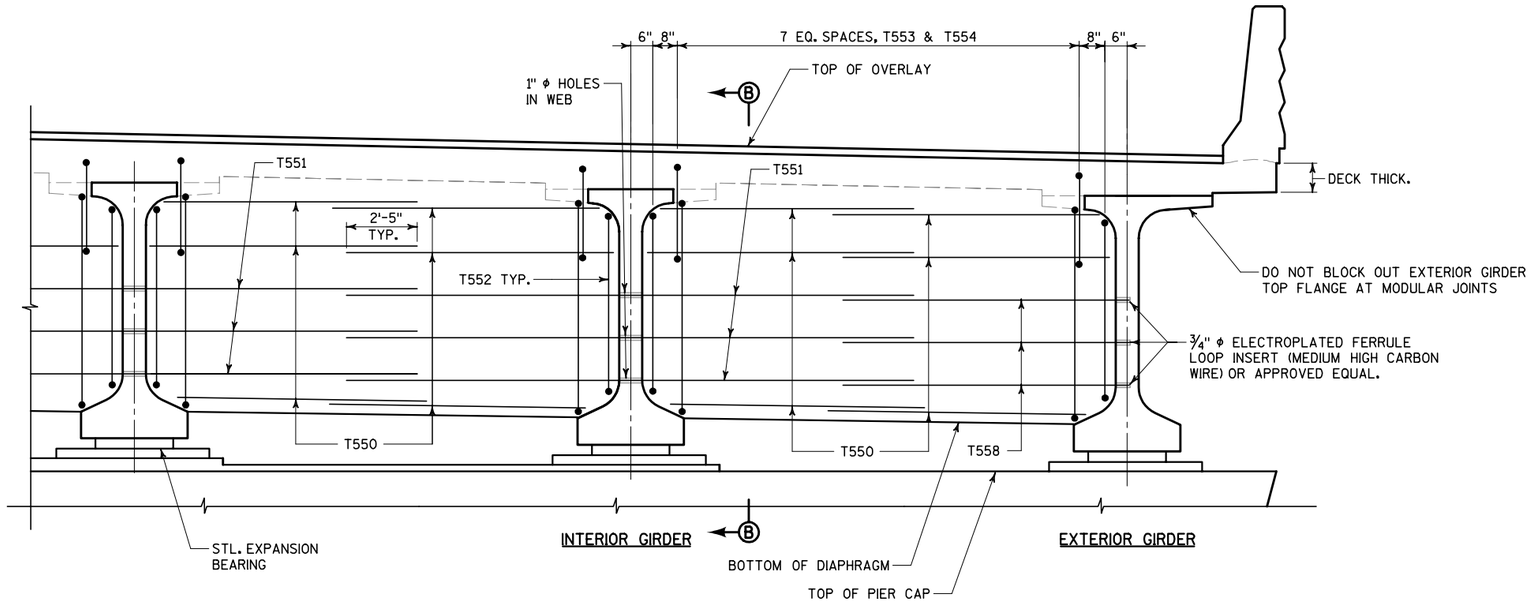


SECTION B-B



TYPICAL SECTION THRU SUPPORT BOX

(NOT TO SCALE)



PART TRANSVERSE SECTION AT MODULAR EXPANSION JT. DIAPHRAGM - PIER P6-002

BACK FACE REINFORCING SHOWN - SEE SECTION B-B FOR FRONT FACE

LEGEND

☆ DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS.

△ DIMENSION VARIES BASED ON MANUFACTURER'S RECOMMENDED JT. OPENING, MIN. DIMENSION = 0"

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	2004	DRAWN BY	RWN	PLANS CK'D.	KES

SUPERSTRUCTURE DETAILS 2

SHEET 192 OF 396

3060

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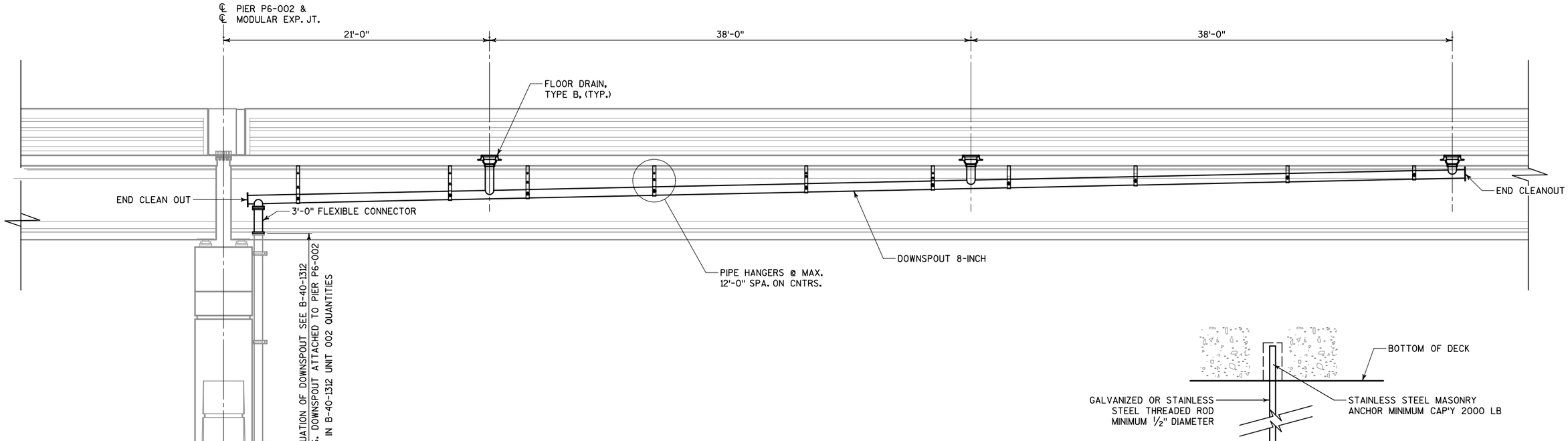
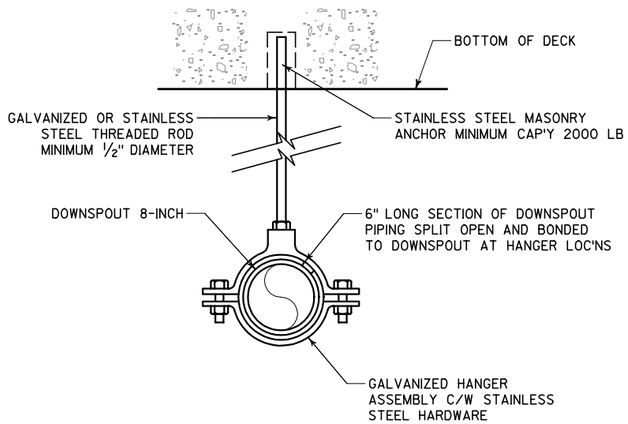
STATE PROJECT NUMBER
1060-05-75



ELEVATION - DRAINS ALONG SOUTH FLOW LINE

LOOKING NORTH
ELEVATION OF NORTH FLOW LINE DRAINS SIMILAR BUT OPPOSITE HAND



PIPE HANGER DETAIL

NOTES

1. SEE SHEETS 3 & 4 FOR GENERAL NOTES.
2. INSTALL PIPING AT THE STEEPEST GRADE POSSIBLE, MINIMUM 4½ PERCENT.
3. ALL FITTINGS, ELBOWS, CLEANOUTS, HANGERS, MASONRY ANCHORS, BOLTS AND OTHER HARDWARE REQUIRED FOR MOUNTING THE DOWNSPOUT AND/OR FLOOR DRAINS IS CONSIDERED INCIDENTAL TO PAY ITEM SPV.0090.2030 'DOWNSPOUT 8-INCH'.
4. 'END CLEANOUTS' SHALL CONSIST OF A REMOVABLE COVER SEALING THE PIPE END INDICATED. OTHER CLEANOUTS SHALL USE THE INTERMEDIATE CLEANOUT DETAIL GIVEN ON THIS SHEET.
5. CUT HOLES AND INSTALL INTERMEDIATE CLEANOUTS IN THE FIELD AFTER DOWNSPOUT HAS BEEN INSTALLED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

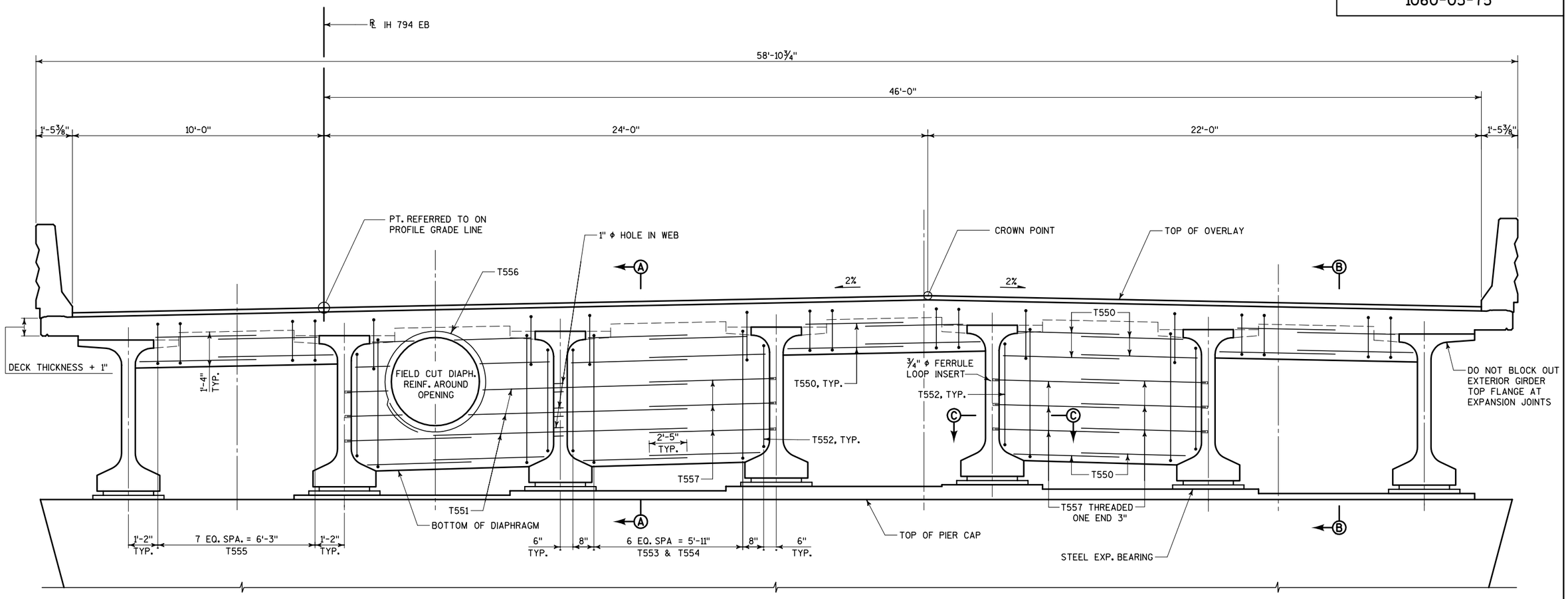
SUPERSTRUCTURE DETAILS 3

SHEET 193 OF 396
3061

8

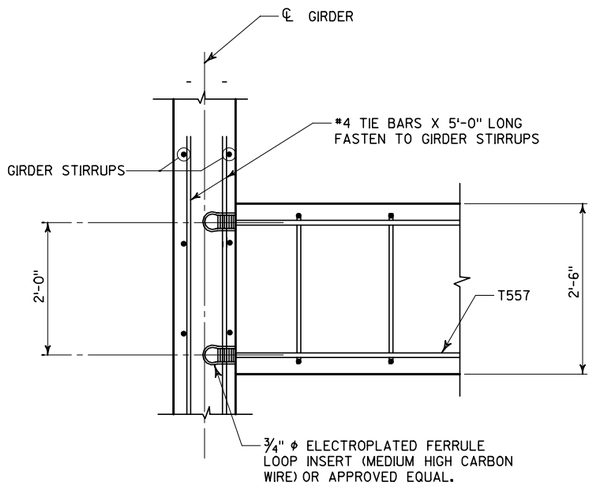
STATE PROJECT NUMBER

1060-05-75



ELEVATION VIEW AT PIER P1-004

LOOKING EAST - DIMENSIONS & ELEVATIONS GIVEN ALONG ℄ PIER P1-004
SEE SHEET 195 FOR SECTIONS A AND B



SECTION C-C

SEE SHEET 195 FOR SECTIONS A AND B

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

SUPERSTRUCTURE DETAILS 4

SHEET 194 OF 396

3062

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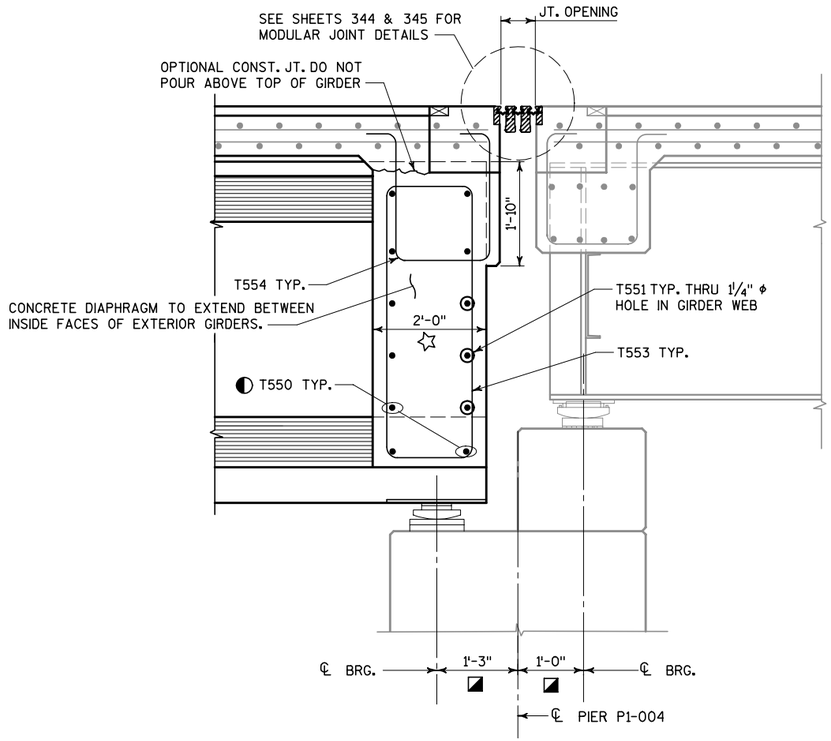
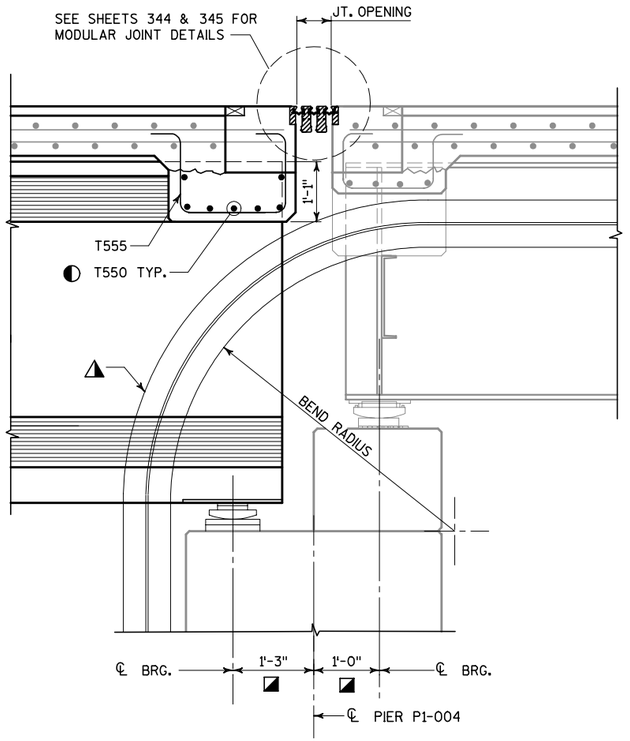
STATE PROJECT NUMBER
1060-05-75



SECTION A-A

(PIER P1-004)



SECTION B-B

(PIER P1-004)

LEGEND

◐ SEE DIAPHRAGM ELEVATION VIEWS FOR LONGITUDINAL REINFORCEMENT CALLOUTS

◪ DIMENSIONS GIVEN PERPENDICULAR TO ℄ PIER

⚠ 8 - 4" ϕ CONDUITS. MINIMUM BEND RADIUS OF LOWER CONDUITS IS 5'-0". COORDINATE VERTICAL LOCATION OF UTILITY OPENINGS WITH THE UTILITY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

SUPERSTRUCTURE DETAILS 5

SHEET 195 OF 396

3063

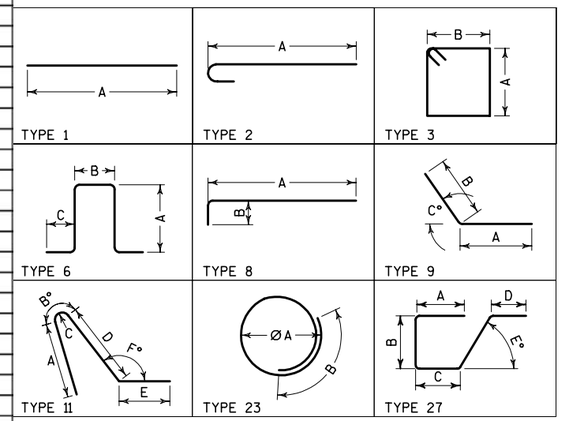
8

STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J	LOCATION
S501	E	3050	5'-4"	16966	11	1'-9"	159°	2"	2'-0"	1'-0"	116°				STANDARD PARAPET DOWELS
S602	E	28	6'-6"	273	9	3'-3"	3'-3"	83°							LIGHT POLE BASE PARAPET DOWELS
S605	E	48	14'-9"	1063	2	14'-0"									LIGHT POLE BASE EXTRA TRANSVERSE
S507	E	20	4'-2"	87	9	1'-11"	2'-3"	15°							LIGHT POLE BASE EXTRA DOWELS
S551	E	3050	58'-2"	185037	1	58'-2"									SLAB TOP & BOTTOM - TRANSVERSE
S452	E	2288	40'-0"	61135	1	40'-0"									SLAB BOTTOM - LONGITUDINAL - ALL SPANS
S453	E	88	14'-8"	862	1	14'-8"									SLAB BOTTOM - LONGITUDINAL - SPAN 8
S454	E	176	40'-0"	4703	1	40'-0"									SLAB TOP - LONGITUDINAL - SPAN 1
S755	E	88	31'-3"	5621	1	31'-3"									SLAB TOP - LONGITUDINAL - SPAN 1
S856	E	264	60'-0"	42293	1	60'-0"									SLAB TOP - LONGITUDINAL - OVER PIER P1-003, P2-003 & P7-003
S857	E	264	40'-0"	28195	1	40'-0"									SLAB TOP - LONGITUDINAL - OVER PIER P1-003, P2-003 & P3-003
S758	E	264	43'-7"	23518	1	43'-7"									SLAB TOP - LONGITUDINAL - SPAN 2
S459	E	88	23'-0"	1352	1	23'-0"									SLAB TOP - LONGITUDINAL - SPAN 2
S660	E	88	27'-10"	3679	1	27'-10"									SLAB TOP - LONGITUDINAL - SPAN 2
S661	E	88	34'-10"	4604	1	34'-10"									SLAB TOP - LONGITUDINAL - SPAN 3
S462	E	88	26'-0"	1528	1	26'-0"									SLAB TOP - LONGITUDINAL - SPAN 3
S663	E	88	26'-10"	3547	1	26'-10"									SLAB TOP - LONGITUDINAL - SPAN 3
S864	E	88	55'-0"	12923	1	55'-0"									SLAB TOP - LONGITUDINAL - OVER PIER P3-003
S665	E	88	36'-10"	4868	1	36'-10"									SLAB TOP - LONGITUDINAL - SPAN 4
S466	E	88	16'-2"	950	1	16'-2"									SLAB TOP - LONGITUDINAL - SPAN 4
S667	E	176	28'-10"	7622	1	28'-10"									SLAB TOP - LONGITUDINAL - SPAN 4 & 5
S768	E	264	50'-0"	26981	1	50'-0"									SLAB TOP - LONGITUDINAL - OVER PIER P4-003 ,P5-003 & P6-003
S769	E	88	40'-0"	7195	1	40'-0"									SLAB TOP - LONGITUDINAL - OVER PIER P4-003
S470	E	88	27'-2"	1597	1	27'-2"									SLAB TOP - LONGITUDINAL - SPAN 5
S671	E	88	24'-10"	3282	1	24'-10"									SLAB TOP - LONGITUDINAL - SPAN 5
S772	E	88	60'-0"	10792	1	60'-0"									SLAB TOP - LONGITUDINAL - OVER PIER P5-003
S673	E	176	14'-10"	3921	1	14'-10"									SLAB TOP - LONGITUDINAL - SPAN 6
S474	E	88	32'-4"	1901	1	32'-4"									SLAB TOP - LONGITUDINAL - SPAN 6
S775	E	88	30'-0"	5396	1	30'-0"									SLAB TOP - LONGITUDINAL - OVER PIER P6-003
S676	E	88	45'-6"	6014	1	45'-6"									SLAB TOP - LONGITUDINAL - SPAN 7
S877	E	88	35'-0"	8224	1	35'-0"									SLAB TOP - LONGITUDINAL - OVER PIER P7-003
S478	E	264	33'-2"	5849	1	33'-2"									SLAB TOP - LONGITUDINAL - SPAN 8
S489	E	48	20'-0"	641	1	20'-0"									SLAB - LONGITUDINAL AT DECK DRAINS
S792	E	24	20'-0"	981	1	20'-0"									SLAB - LONGITUDINAL AT DECK DRAINS
S893	E	96	20'-0"	5126	1	20'-0"									SLAB - LONGITUDINAL AT DECK DRAINS
S694	E	56	10'-11"	918	8	5'-6"	5'-6"								SLAB - TRANSVERSE AT DECK DRAINS
S599	E	3000	6'-0"	18774	2	5'-6"									SLAB - TRANSVERSE AT EDGE OF DECK
T401	E	840	4'-9"	2665	1	4'-9"									DIAPHRAGM - HORIZONTAL
T402	E	56	4'-8"	175	9	4'-1"	7"	65°							DIAPHRAGM - VERTICAL - EXTERIOR GIRDER
T303	E	70	5'-9"	151	3	6½"	2'-1"								DIAPHRAGM - HORIZONTAL - EXTERIOR GIRDER
T404	E	56	6'-1"	228	8	5'-6"									DIAPHRAGM - VERTICAL - EXTERIOR GIRDER
T405	E	56	3'-7"	134	2	3'-1"									DIAPHRAGM - VERTICAL - EXTERIOR GIRDER
T506	E	84	12'-9"	1117	3	3'-11"	2'-1"								DIAPHRAGM - VERTICAL
T510	E	84	15'-6"	1358	6	5'-10"	2'-1"	1'-0"							DIAPHRAGM - VERTICAL - PIERS P1-003 & P2-003
T511	E	84	15'-0"	1314	6	5'-7"	2'-1"	1'-0"							DIAPHRAGM - VERTICAL - PIERS P6-003 & P7-003
T512	E	126	16'-2"	2125	6	6'-2"	2'-1"	1'-0"							DIAPHRAGM - VERTICAL - PIERS P3-003, P4-003 & P5-003
T550	E	186	5'-1"	986	1	5'-1"									MODULAR EXPANSION JT. DIAPH. - HORIZONTAL
T551	E	18	11'-0"	207	1	11'-0"									MODULAR EXPANSION JT. DIAPH. - HORIZONTAL
T552	E	18	11'-9"	221	3	3'-11"	1'-7'								MODULAR EXPANSION JT. DIAPH. - VERTICAL
T553	E	68	13'-11"	987	3	5'-0"	1'-7'								MODULAR EXPANSION JT. DIAPH. - VERTICAL
T554	E	68	8'-1"	573	27	0'-10"	2'-7"	1'-7"	0'-10"	90^					MODULAR EXPANSION JT. DIAPH. - VERTICAL
T555	E	24	5'-9"	144	27	0'-10"	1'-5"	1'-7"	0'-10"	90^					MODULAR EXPANSION JT. DIAPH. - VERTICAL - P1-004
T456	E	4	14'-7"	39	23	4'-2"	1'-6"								MODULAR EXPANSION JT. DIAPH. - P4-001
T557	E	18	5'-4"	100	1	5'-4"									MODULAR EXPANSION JT. DIAPH. - HORIZONTAL - THREADED
		TOTAL WEIGHT =		530945	LBS										

NOTES:

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. SEE THE ACCOMPANYING BAR SERIES TABLE FOR SET COUNT AND BAR LENGTHS.
5. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
6. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.



8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

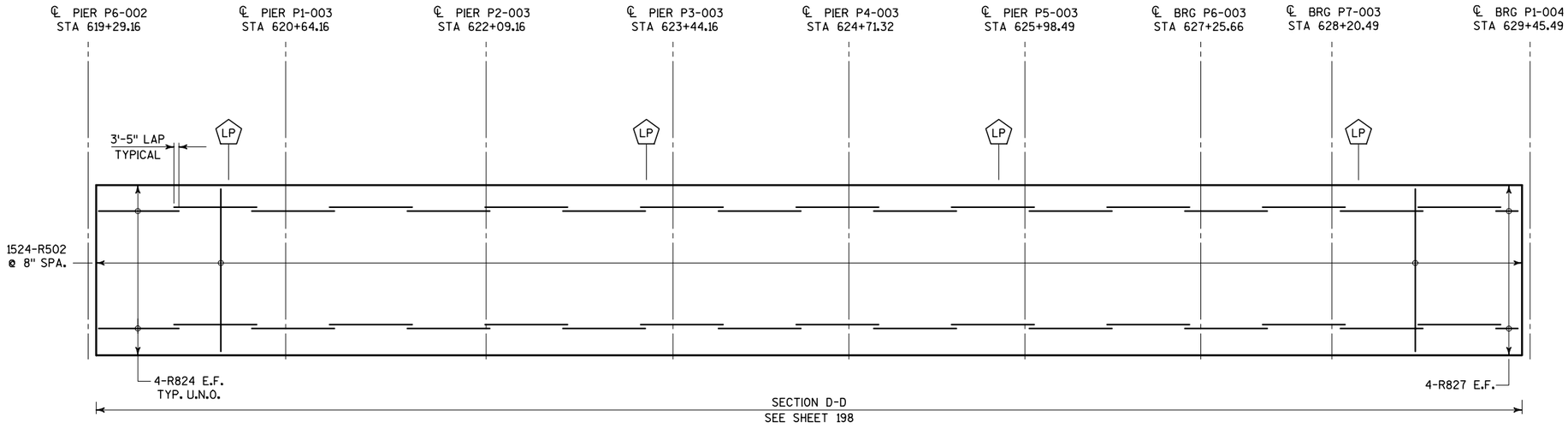
CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

SUPERSTRUCTURE REINF. SCHEDULE

SHEET 196 OF 396

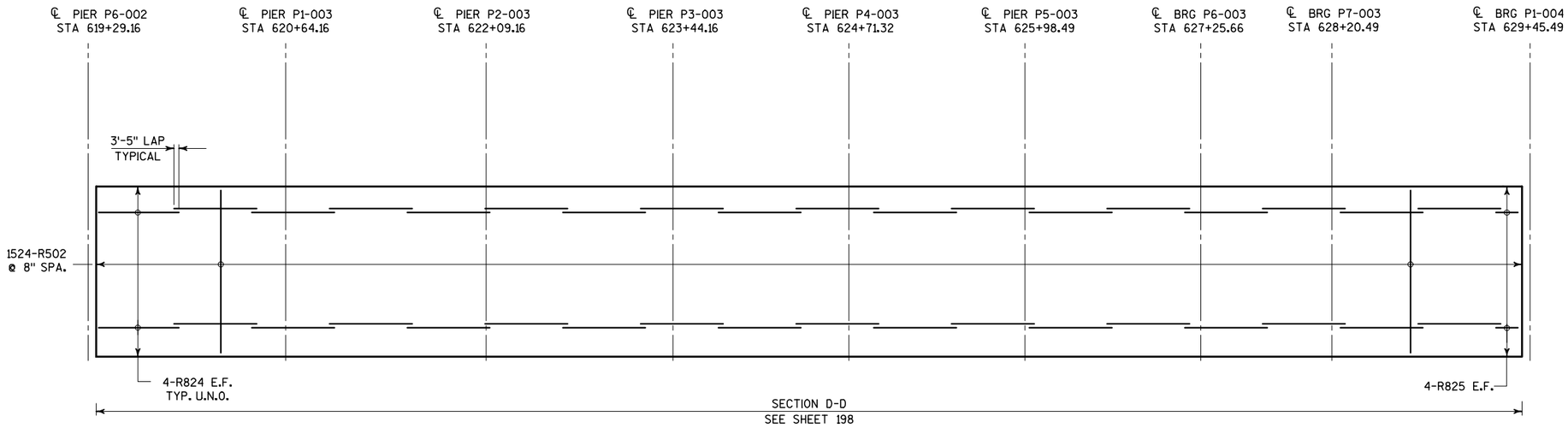
3064

STATE PROJECT NUMBER
1060-05-75



LEFT SIDE PARAPET ELEVATION

LOOKING LEFT AT TRAFFIC FACE
(NOT TO SCALE - SURFACE FEATURES NOT SHOWN)



RIGHT SIDE PARAPET ELEVATION

LOOKING LEFT AT EXTERIOR FACE
(NOT TO SCALE - SURFACE FEATURES NOT SHOWN)

LEGEND

LP — LIGHT POLE MOUNTING LOCATION. SEE SHEETS 354 TO 355.

T.F. — DENOTES BARS LOCATED ON 'TRAFFIC FACE' OF PARAPET.

E.F. — DENOTES BARS LOCATED ON BOTH FACES OF PARAPET ('EACH FACE').

NOTES

1. SEE SHEET 3 FOR GENERAL NOTES.
2. UNLESS OTHERWISE NOTED, SECTIONS REFERENCED ON THIS DRAWING CAN BE FOUND ON SHEET 190.
3. EXCEPT AS NOTED BELOW, LIGHT POLE BRIDGE BASES ARE INCLUDED WITH (AND CONSIDERED INCIDENTAL TO) ITEM SPV.0090.2040 - PARAPET BRIDGE (FREEWAY STRUCTURES).

   ALL ITEMS NOTED AS BEING EXCLUDED FROM SPV.0090.2040 ARE INCLUDED IN OTHER APPLICABLE PAY ITEMS AS SHOWN ON SHEET 6.
4. SUPPLY OF LIGHT POLE ANCHOR ASSEMBLIES IS COVERED UNDER SEPARATE PAY ITEM(S). INSTALLATION OF ANCHOR ASSEMBLIES IS CONSIDERED INCIDENTAL TO ITEM SPV.0090.2040.
5. LIGHT POLE INSTALLATION IS COVERED UNDER SEPARATE PAY ITEM(S).
6. REINFORCEMENT MARKS STARTING WITH 'R' ARE INCLUDED UNDER SPV.0090.2040. ALL OTHER MARK PREFIXES ARE COVERED UNDER OTHER PAY ITEMS.
7. CONSTRUCTION JOINTS IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS MAY BE USED AT THE CONTRACTOR'S DISCRETION:

   SPACING BETWEEN JOINTS SHALL BE AT LEAST 80'-0"

   LONGITUDINAL REINFORCEMENT SHALL RUN CONTINUOUS THROUGH JOINTS

   ¾" V-GROOVE SHALL BE PROVIDED ALONG THE FULL PERIMETER OF THE JOINT

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	DJS	KES

PARAPET ELEVATIONS

SHEET 197 OF 396

3065

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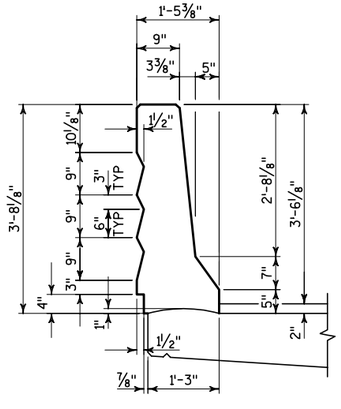
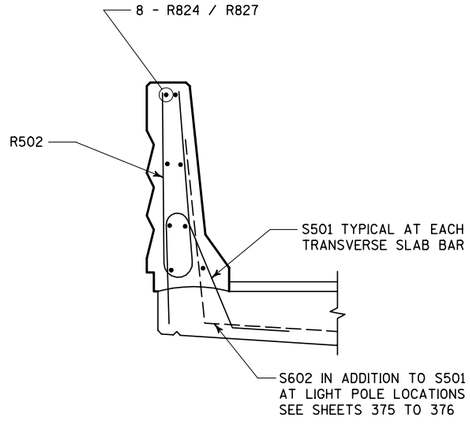
STATE PROJECT NUMBER
1060-05-75



SECTION D-D
(SHOWING DIMENSIONS)



SECTION D-D
(SHOWING REINFORCEMENT)

NOTES

1. SEE SHEET 3 & 4 FOR GENERAL NOTES.
2. UTILITY CONDUITS NOT SHOWN IN SECTIONS. SEE SHEET 199 FOR NUMBER, SIZE AND EXTENT OF CONDUITS REQUIRED.
3. INSTALLATION OF ALL EMBEDDED ITEMS IS CONSIDERED INCIDENTAL TO PAY ITEM SPV.0090.2040 - PARAPET BRIDGE (FREEWAY STRUCTURES).

   SUPPLY OF EMBEDDED ITEMS IS INCLUDED UNDER OTHER PAY ITEMS - SEE QUANTITIES SHEETS

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PARAPET SECTIONS

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STATE PROJECT NUMBER
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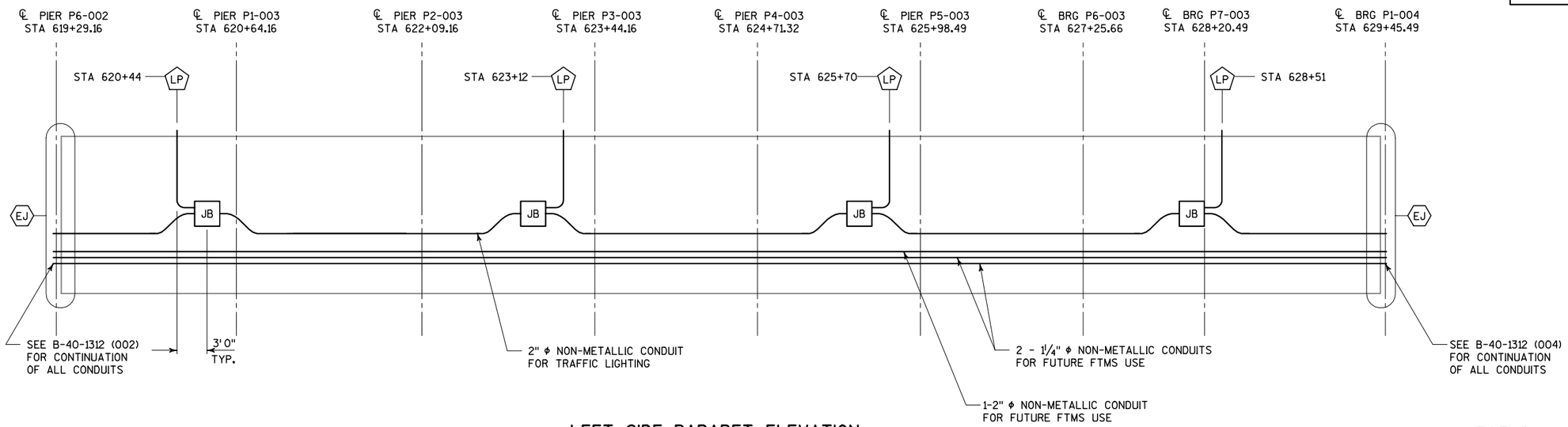

LEFT SIDE PARAPET ELEVATION

LOOKING LEFT AT TRAFFIC FACE

(NOT TO SCALE - SURFACE FEATURES NOT SHOWN)

LEGEND

- (EJ) EXPANSION JOINT LOCATION. SEE SHEET 200 FOR DETAILS OF CONDUIT JOINTS REQUIRED IN THIS AREA.
- (LP) LIGHT POLE MOUNTING LOCATION - INSTALLATION OF ANCHOR ASSEMBLY REQUIRED. SEE SHEETS 354 TO 355.
- (SB) SIGN BRIDGE MOUNTING LOCATION - INSTALLATION OF ANCHOR ASSEMBLY REQUIRED. SEE SHEETS 358 TO 359.
- [JB] JUNCTION BOX LOCATION - 14" X 8" X 6" TYPICAL. LOCATE ON TRAFFIC FACE OF BARRIER WITH TOP EDGE OF BOX 8" BELOW TOP OF PARAPET UNLESS OTHERWISE NOTED. RESPACE PARAPET REINFORCEMENT LOCALLY AS REQUIRED TO CLEAR.

NOTES

1. SEE SHEET 3 FOR GENERAL NOTES.
2. UNLESS INSTALLATION IS EXPLICITLY COVERED BY A SEPARATE PAY ITEM, INSTALLATION OF ALL EMBEDMENTS IS CONSIDERED INCIDENTAL TO PAY ITEM SPV.0090.2040 - PARAPET BRIDGE FREEWAY STRUCTURES.

   SUPPLY OF EMBEDMENTS IS INCLUDED UNDER OTHER PAY ITEMS - SEE SHEET 6.

   SUPPLY OF EXPANSION FITTINGS FOR CONDUIT IS CONSIDERED INCIDENTAL TO THE PAY ITEM FOR THE CONDUIT BEING CONNECTED.
3. ALL EXPOSED CONDUIT ENDS SHALL BE SUPPLIED WITH TEMPORARY WEATHERPROOF CAPS TO PREVENT INGRESS OF MOISTURE PRIOR TO LIGHT POLE OR SIGN BRIDGE INSTALLATION.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	DJS	KES

PARAPET
EMBEDDED WORK

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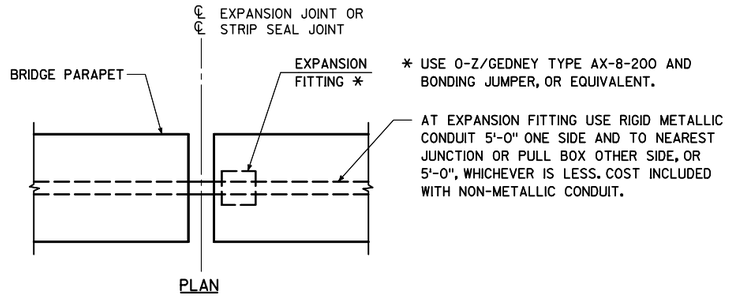
STATE PROJECT NUMBER
1060-05-72



CONDUIT EXPANSION JOINT

FOR USE AT : PIER P7-002 & PIER P1-004

NOTES

1. SEE SHEETS 3 & 4 FOR GENERAL NOTES.
2. UNLESS INSTALLATION IS EXPLICITLY COVERED BY A SEPARATE PAY ITEM, INSTALLATION OF ALL EMBEDMENTS IS CONSIDERED INCIDENTAL TO PAY ITEM SPV.0090.2040 - PARAPET BRIDGE FREEWAY STRUCTURES.

   SUPPLY OF EMBEDMENTS IS INCLUDED UNDER OTHER PAY ITEMS - SEE QUANTITIES SHEETS.

   SUPPLY OF EXPANSION FITTINGS FOR CONDUIT IS CONSIDERED INCIDENTAL TO THE PAY ITEM FOR THE CONDUIT BEING CONNECTED.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

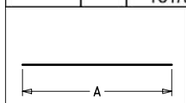
PARAPET DETAILS

SHEET 200 OF 396

3068

STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
PARAPET																
R502	E	1524	6'-10"	15641	10	3'-0"	184°	3"							HF PARAPET HAIRPINS	
R824	E	136	60'-0"	8511	1	60'-0"									PARAPET HORIZONTAL	
R827	E	8	55'-4"	462	1	55'-4"									PARAPET HORIZONTAL	
HF PARAPET LIGHT POLE BASE																
R504	E	28	6'-3"	183	4	2'-2"	2'-1"								LIGHT POLE BASE HORIZONTAL TIES	
R505	E	20	2'-5"	50	9	1'-3"	1'-3"	90°							LIGHT POLE BASE END FACE	
R506	E	28	7'-3"	212	4	2'-8"	2'-1"								LIGHT POLE BASE HORIZONTAL TIES	
R507	E	40	8'-1"	337	4	3'-0"	2'-3"								LIGHT POLE BASE VERTICAL TIES	
R508	E	4	10'-0"	42	3	2'-3"	2'-3"								LIGHT POLE BASE STIRRUPS	
R409	E	32	3'-7"	77	4	1'-0"	1'-8"								LIGHT POLE BASE SIDE FACE	DIM'N. 'B' VARIES FROM 1'-5" TO 1'-11" IN 3 STEPS OF 2" (2 SETS OF 4 BARS REQ'D)
R510	E	16	2'-9"	46	1	2'-9"									LIGHT POLE BASE SIDE FACE	
		TOTAL WEIGHT =		25560	LBS											



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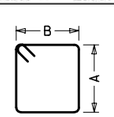
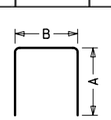


TYPE 3



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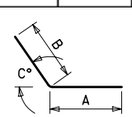
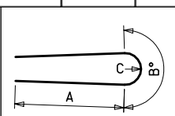


TYPE 9



TYPE 10

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEETS 3 & 4 FOR ADDITIONAL INFORMATION

2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.

3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED

4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.

5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.

6. * DENOTES AVERAGE DIMENSIONS FOR BAR SERIES. SEE THE 'REMARKS' COLUMN FOR COMPLETE SERIES INFORMATION.

7. ALL REINFORCEMENT IN THIS TABLE IS INCLUDED UNDER PAY ITEMS SPV.0090.2040 AND SPV.0090.2045 - PARAPET BRIDGE TYPE LF AND HF.

   NO SEPARATE PAYMENT WILL BE MADE - QUANTITIES ARE PROVIDED FOR INFORMATION ONLY.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (003)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	DJS	KES

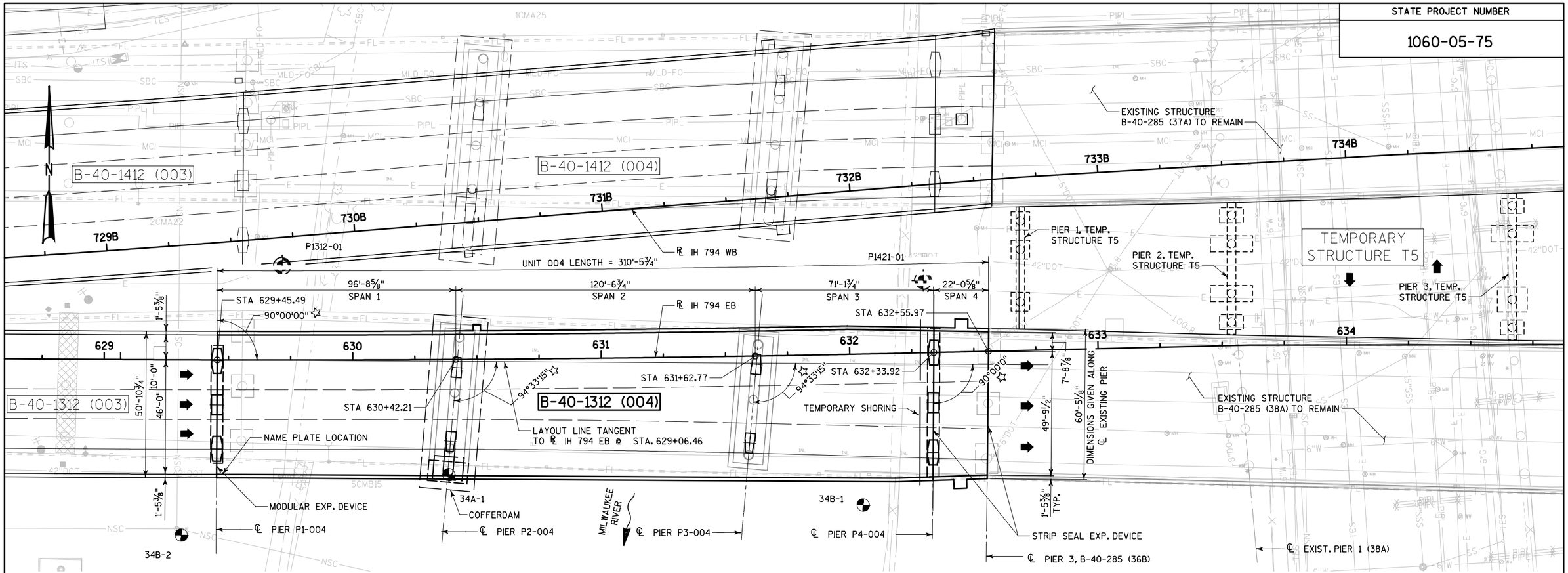
PARAPET REINFORCEMENT SCHEDULE

SHEET 201 OF 396

3069

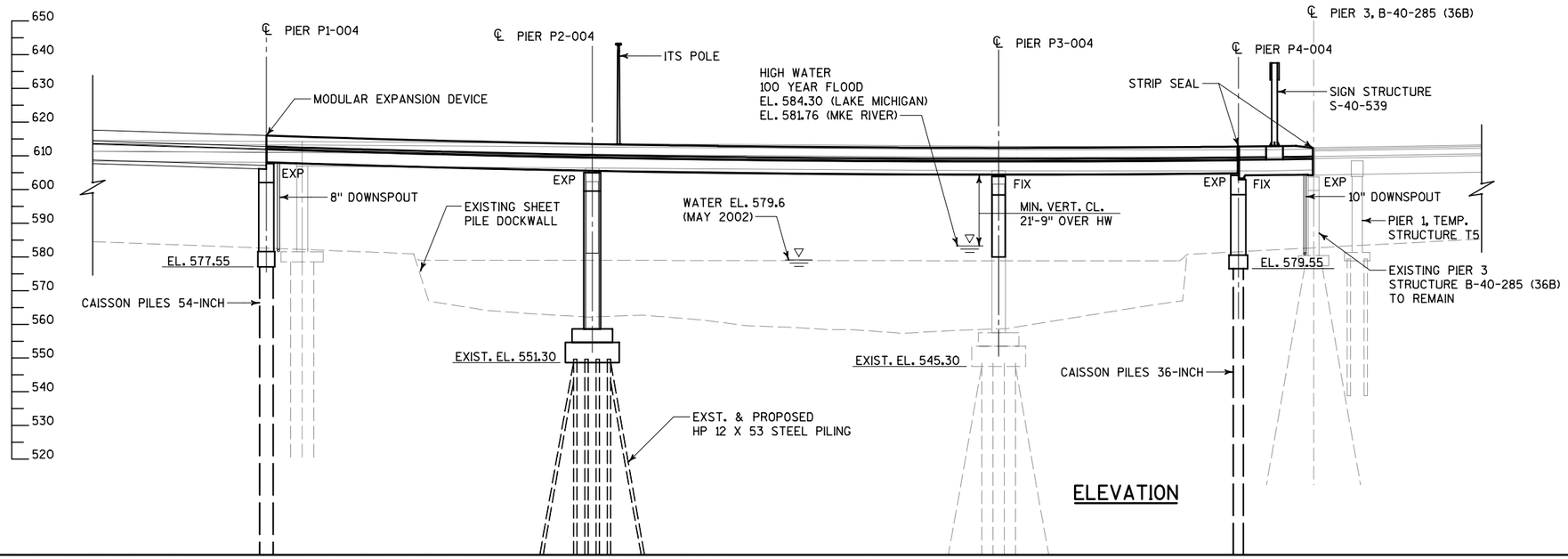
STATE PROJECT NUMBER

1060-05-75



PLAN

(UNIT 004: 3 SPAN 48" STEEL PLATE GIRDER & SINGLE SPAN CONC SLAB)



ELEVATION

LEGEND

- EXISTING BORINGS DRILLED BETWEEN 1961 AND 1964.
- NEW STRUCTURE BORINGS DRILLED BETWEEN 2002 AND 2003.
- ☆ ANGLE MEASURED FROM ℄ PIER TO LAYOUT LINE TANGENT TO ℞ IH 794 EB AT STA 629+06.46

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

004 GENERAL PLAN AND ELEVATION

SHEET 202 OF 396

3070

8

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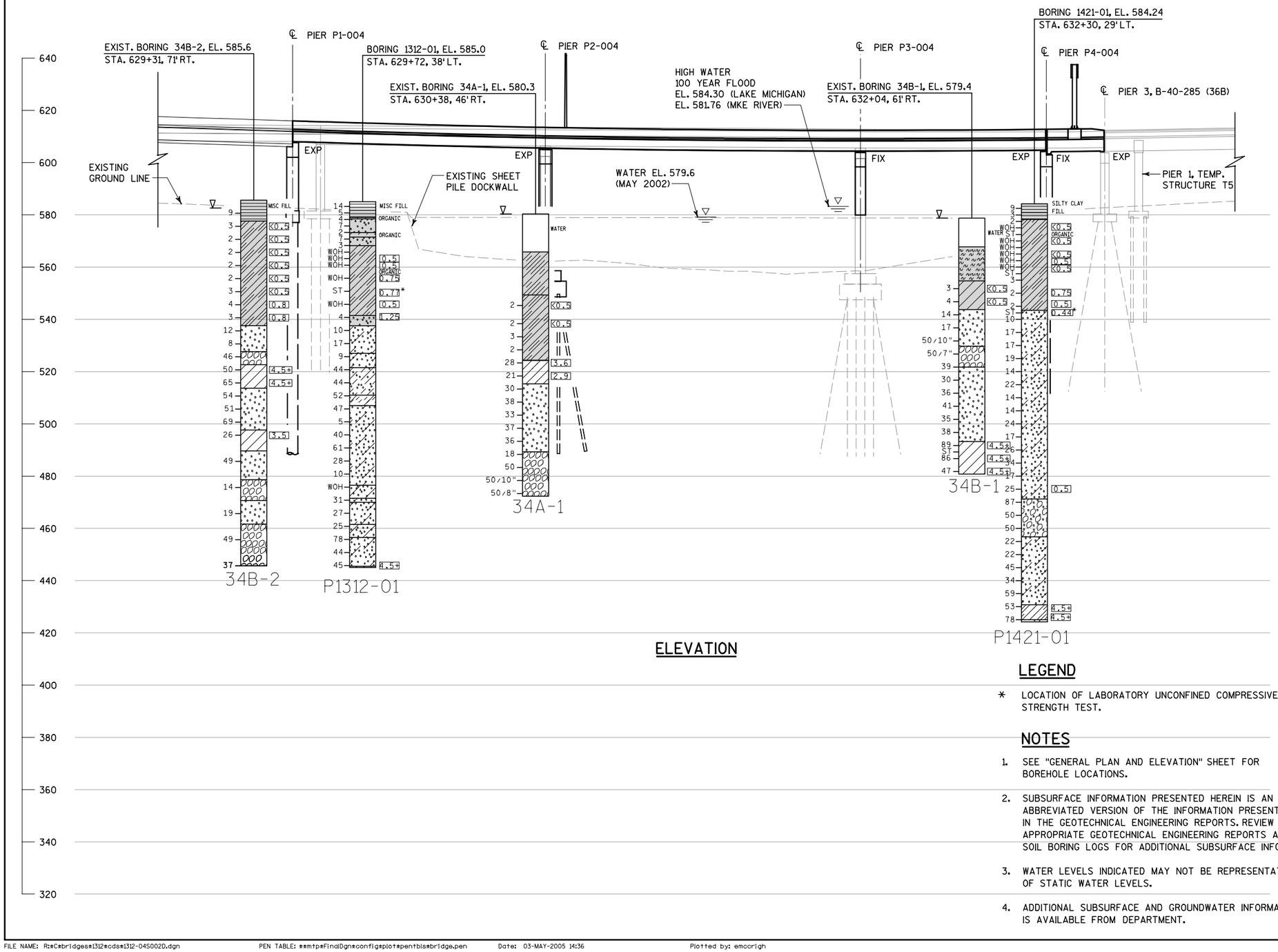


ELEVATION

LEGEND

* LOCATION OF LABORATORY UNCONFINED COMPRESSIVE STRENGTH TEST.

NOTES

1. SEE "GENERAL PLAN AND ELEVATION" SHEET FOR BOREHOLE LOCATIONS.
2. SUBSURFACE INFORMATION PRESENTED HEREIN IS AN ABBREVIATED VERSION OF THE INFORMATION PRESENTED IN THE GEOTECHNICAL ENGINEERING REPORTS. REVIEW THE APPROPRIATE GEOTECHNICAL ENGINEERING REPORTS AND SOIL BORING LOGS FOR ADDITIONAL SUBSURFACE INFORMATION.
3. WATER LEVELS INDICATED MAY NOT BE REPRESENTATIVE OF STATIC WATER LEVELS.
4. ADDITIONAL SUBSURFACE AND GROUNDWATER INFORMATION IS AVAILABLE FROM DEPARTMENT.

STATE PROJECT NUMBER

1060-05-75

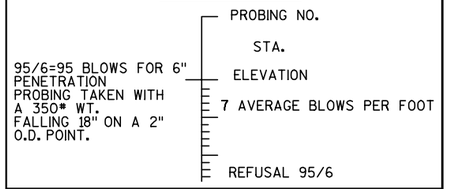
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

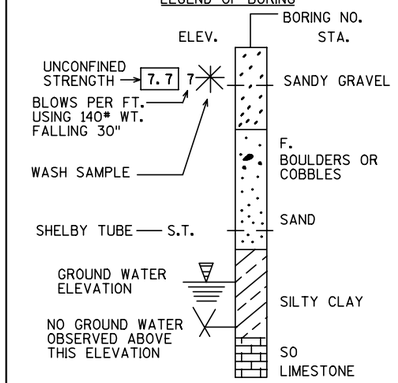
MATERIAL SYMBOLS

TOPSOIL/ FILL, SILT, SANDSTONE
SAND, PEAT, LIMESTONE
GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140* HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC.	2004	DRAWN BY	DJS	PLANS CK'D.	KES

SUBSURFACE EXPLORATION UNIT 004

SHEET 203 OF 396

3071

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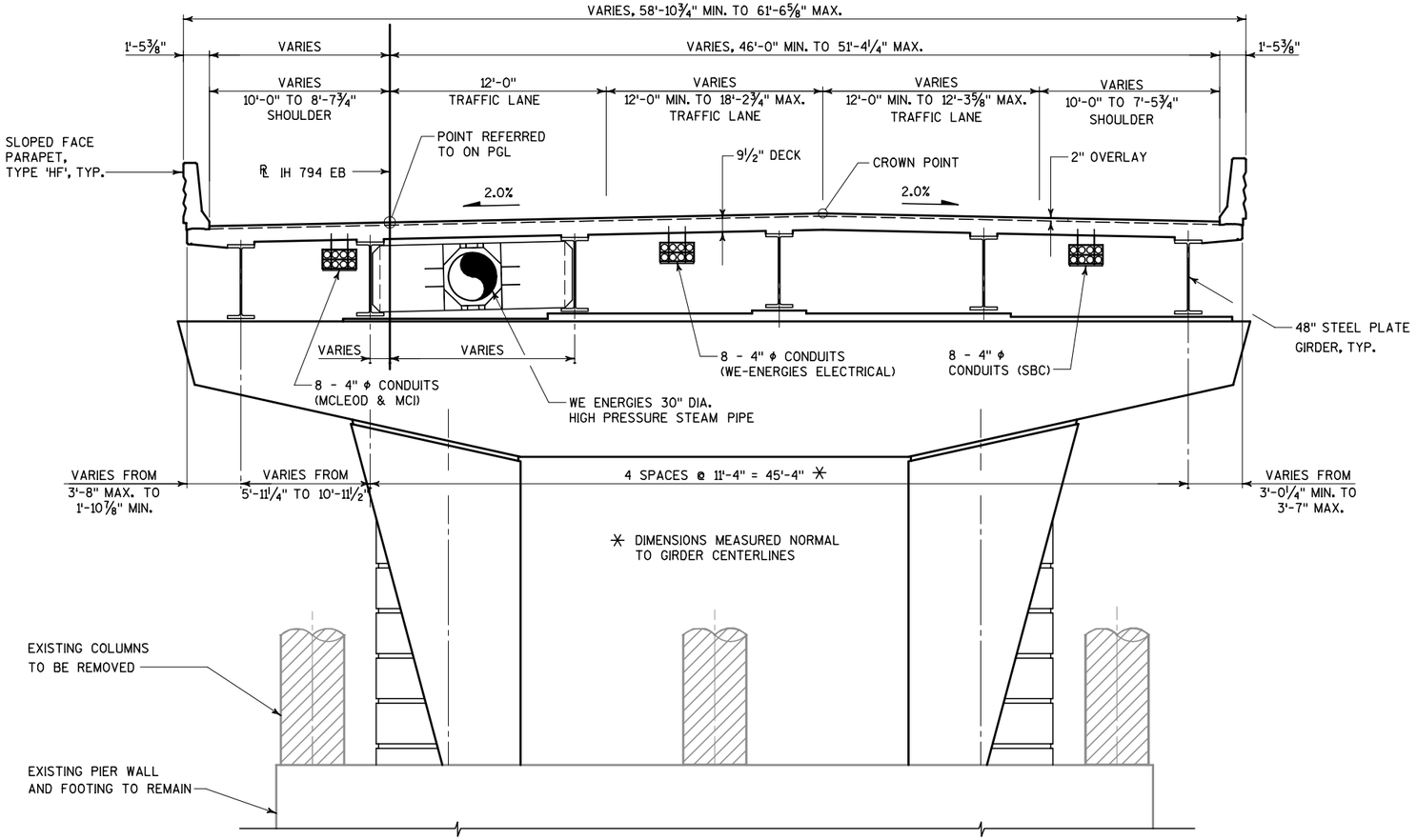
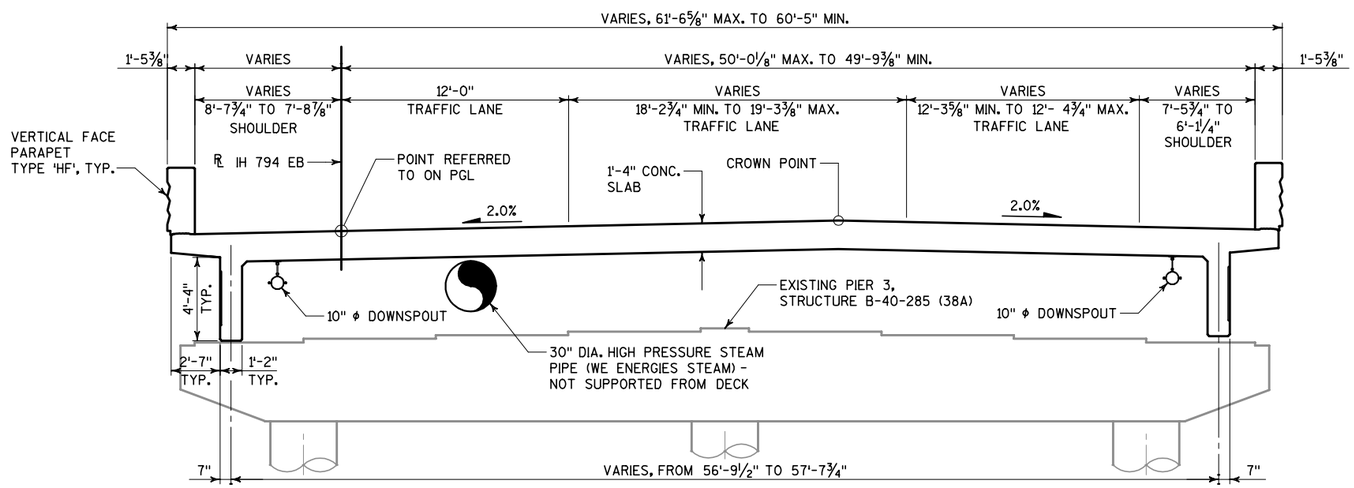


TYPICAL SECTION AT PIER

48" STEEL PLATE GIRDERS
(SPANS 1 THRU 3, LOOKING EAST, PIERS P3-004 SHOWN)



TYPICAL SECTION AT PIER

FLAT SLAB SECTION
(SPAN 4, LOOKING EAST, EXISTING PIER 3 SHOWN)

UTILITY NOTES

ALL UTILITIES SHOWN WILL BE INSTALLED AS PART OF THIS CONTRACT. SEE SPECIAL PROVISIONS.

NOTES

1. DIMENSIONS ARE MEASURED ALONG A LINE RADIAL TO THE ℄ UNLESS OTHERWISE NOTED.
2. FOR UTILITY INFORMATION, REFER TO DECK CROSS SECTIONS CONTAINED LATER IN THIS SET.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

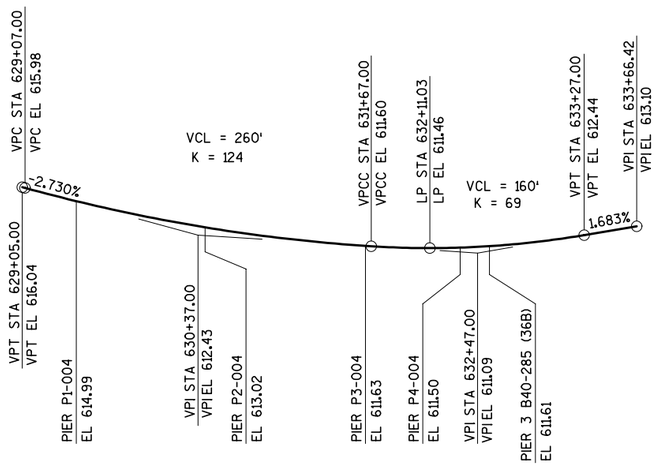
STRUCTURE B-40-1312 (004)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

TYPICAL SECTIONS

SHEET 204 OF 396
3072

STATE PROJECT NUMBER
1060-05-75



PROFILE GRADE LINE - ℄ IH 794 EB

SUBSTRUCTURE DATA

UNIT	STATION	SKEW
P1-004	STA 629+45.49	0° 11' 42.6" LHF
P2-004	STA 630+42.21	5° 13' 46.7" LHF
P3-004	STA 631+62.77	5° 50' 12.5" LHF
P4-004	STA 632+33.92	1° 38' 14.1" LHF
3 B-40-285(36B)	STA 632+55.92	1° 56' 50.5" LHF

HORIZONTAL CURVE DATA

℄ IH 794 EB

PI = STA 630+76.44
Δ = 1°41'59"
D = 0°30'00"
T = 169.98
L = 339.94
R = 11459.16
E = 1.26
PC = STA 629+06.46
PT = STA 632+46.40

PT = STA 632+46.40
PI = STA 633+61.41
L = 115.01

NOTE

FOR SUPERELEVATION, SEE TYPICAL SECTION AND/OR DECK CROSS SECTION SHEETS.

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

ALIGNMENT AND PROFILE

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3073

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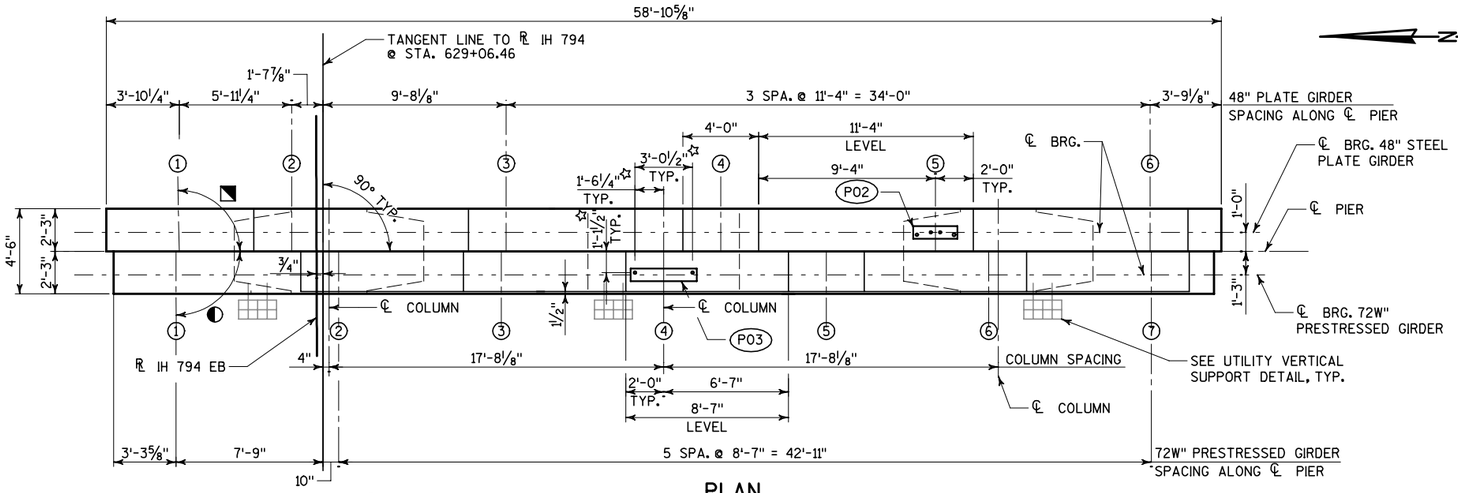
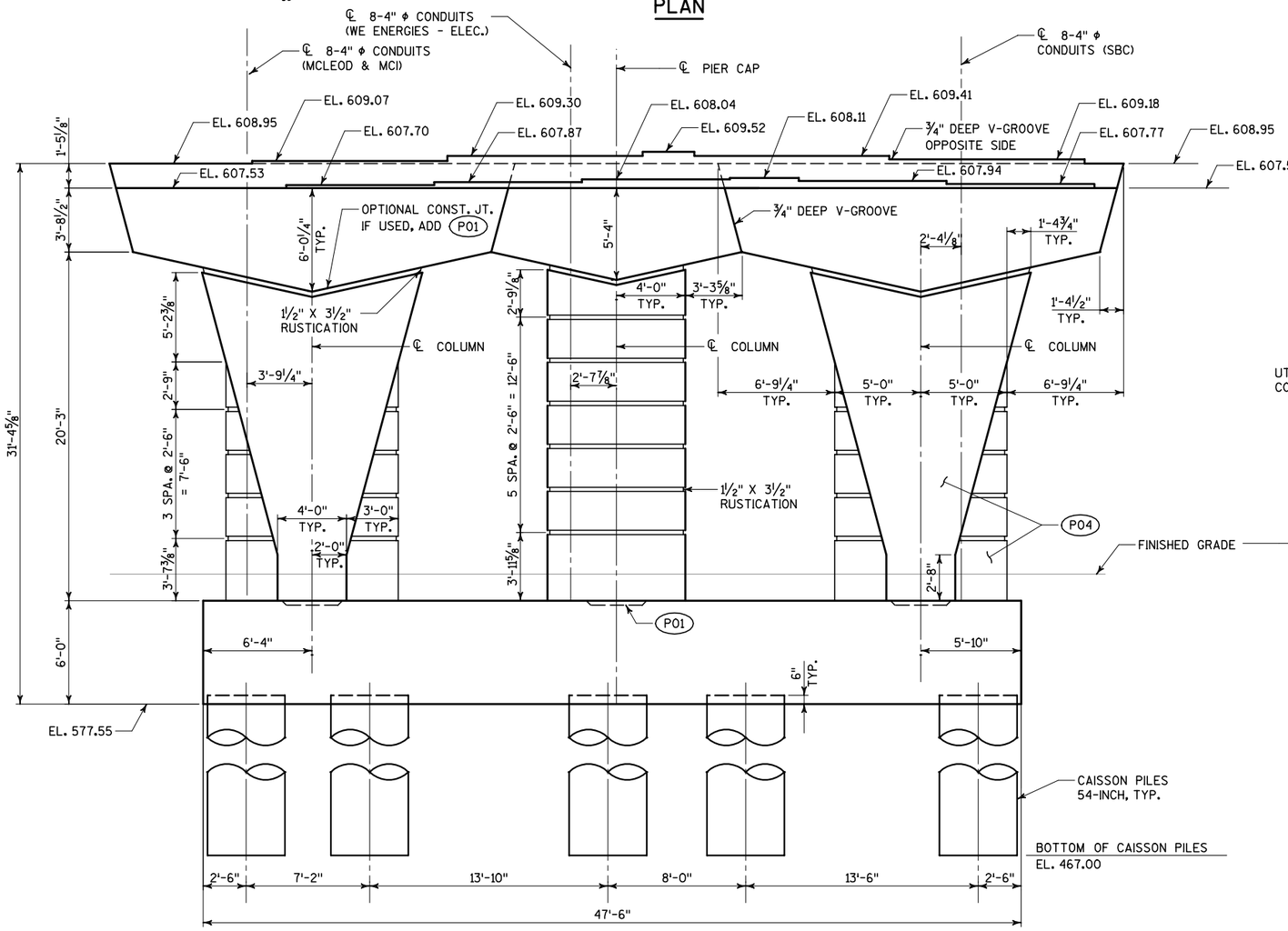
STATE PROJECT NUMBER

1060-05-75



PLAN

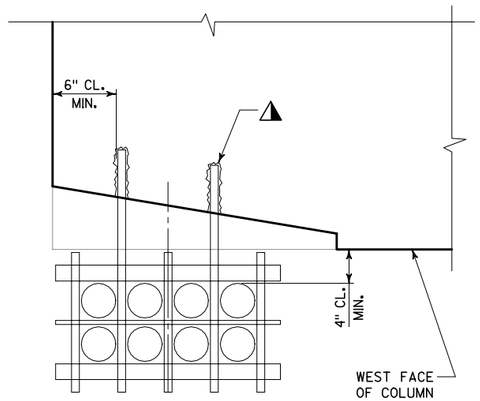


ELEVATION

(PIER P1-004 LOOKING EAST)

BEARING ANGLE

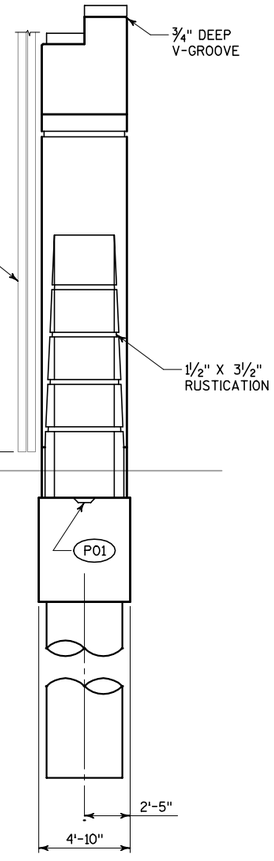
LOCATION		ANGLE
◥	GIRDER 1	90°59'51.0"
	GIRDER 2	90°0'0.0"
	GIRDER 3	90°0'0.0"
	GIRDER 4	90°0'0.0"
	GIRDER 5	90°0'0.0"
	GIRDER 6	90°0'0.0"
◐	GIRDER 1	89°58'13.4"
	GIRDER 2	89°58'13.4"
	GIRDER 3	89°58'13.4"
	GIRDER 4	89°58'13.4"
	GIRDER 5	89°58'13.4"
	GIRDER 6	89°58'13.4"
	GIRDER 7	89°58'13.4"



PLAN

UTILITY VERTICAL SUPPORT DETAIL

(TYP. FOR ALL UTILITIES)



END ELEVATION

(PIER P1-004 LOOKING NORTH)

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) 1½" X 8" X 2'-4" MASONRY PLATE, SEE "STEEL PLATE GIRDER BEARINGS" SHEET FOR DETAILS.

(P03) 1½" X 8" X 3'-6" MASONRY PLATE, SEE "PRESTRESSED GIRDER BEARINGS" SHEET FOR DETAILS.

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 387.

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

◭ CONCRETE MASONRY ANCHORS SHALL MEET THE REQUIREMENTS FOR TYPE 'L" AS DESCRIBED IN THE STANDARD SPECIFICATIONS. MASONRY ANCHORS AND CONDUIT SUPPORTS ARE INCIDENTAL TO THE LUMP SUM UTILITY PAY ITEM UNIQUE TO THE UTILITY SPECIFIED. SIZE AND LOCATION OF VERTICAL SUPPORTS TO BE SPECIFIED BY THE UTILITY. SEE SPECIAL PROVISIONS. END UTILITY CONDUITS 1'-0" ABOVE FINISHED GRADE.

☆ DIMENSIONS ARE GIVEN TO THE ℄ OF ANCHOR BOLTS.

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P1-004

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STATE PROJECT NUMBER
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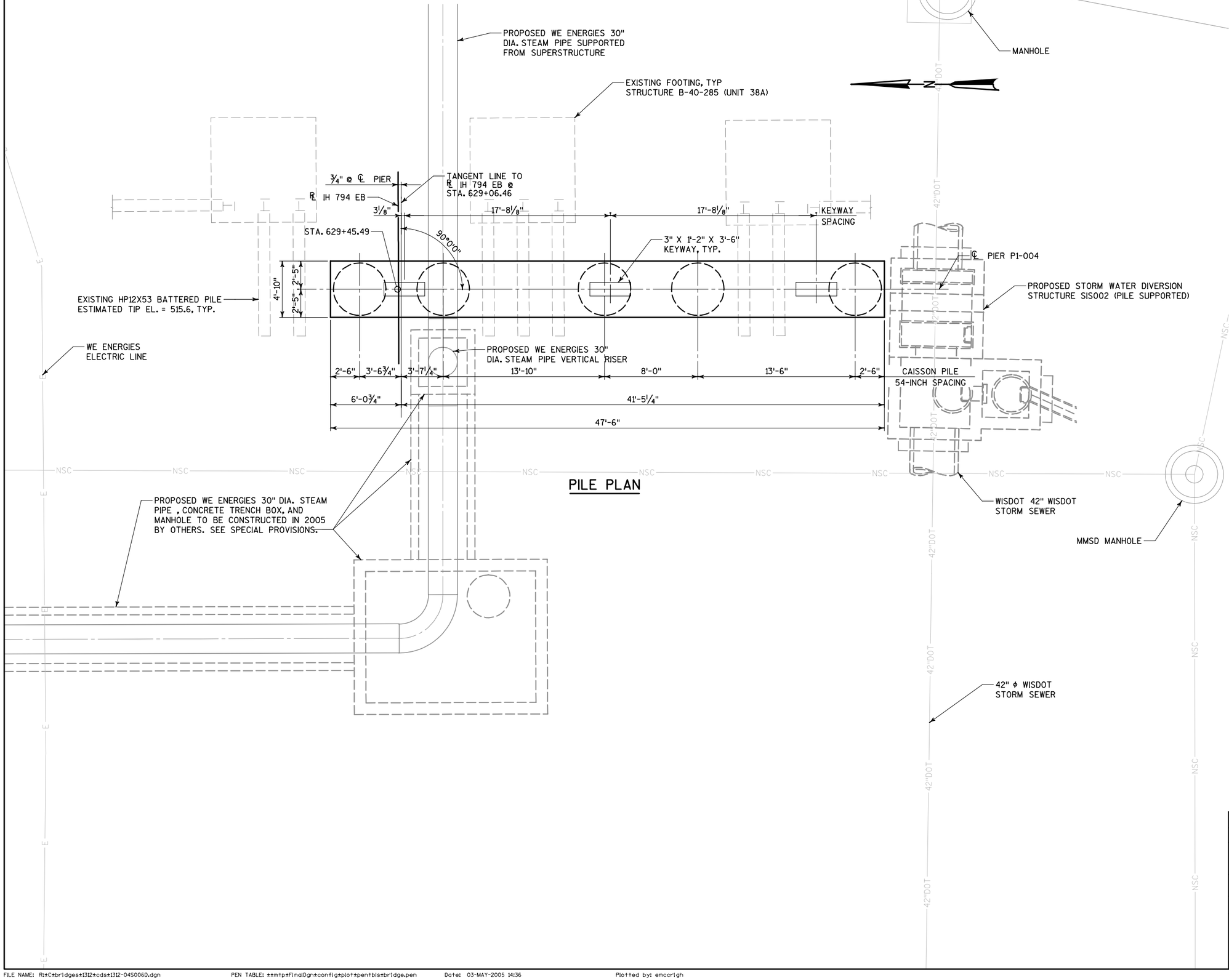

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P1-004 FOOTING PLAN

SHEET 207 OF 396

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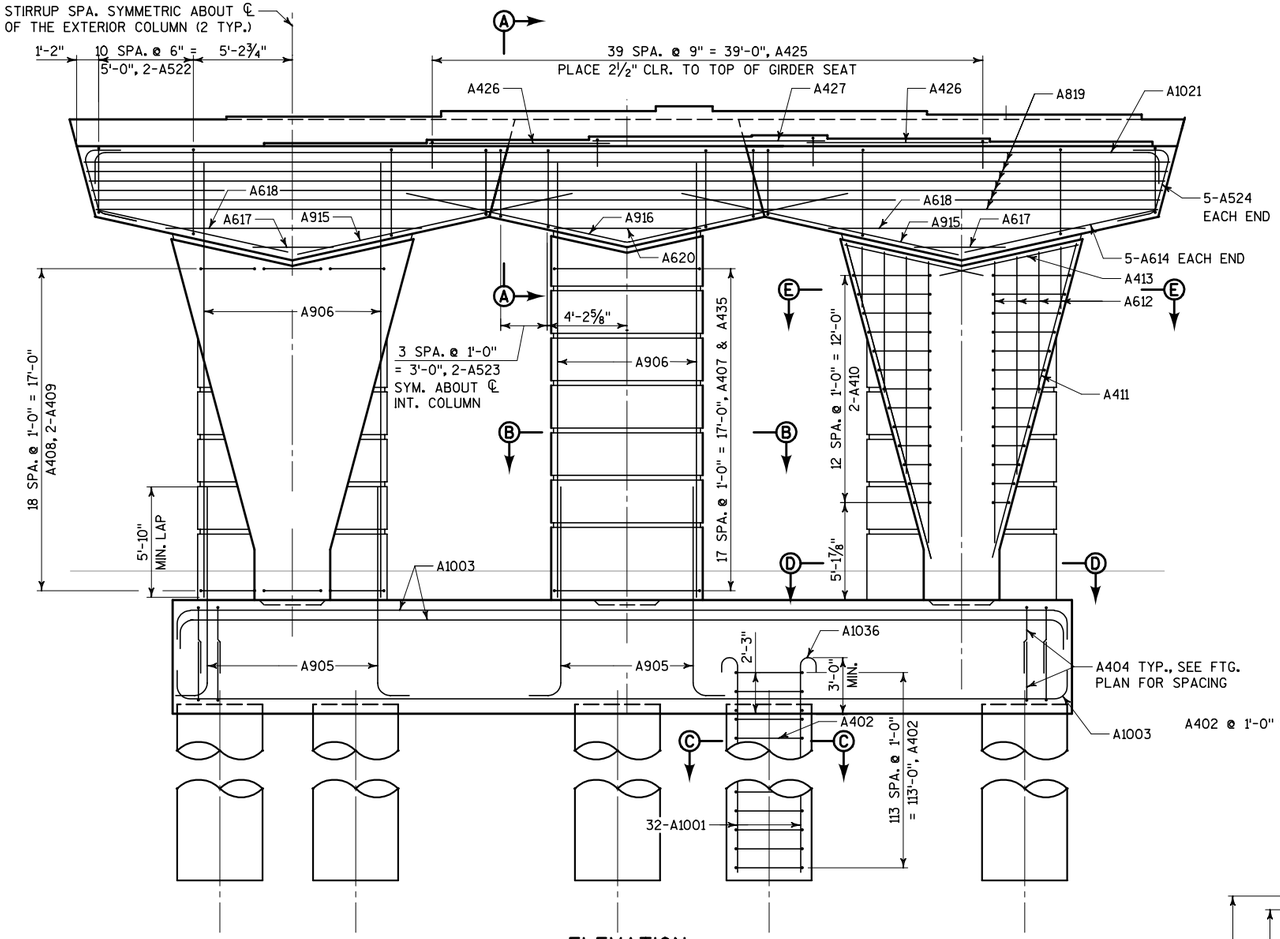
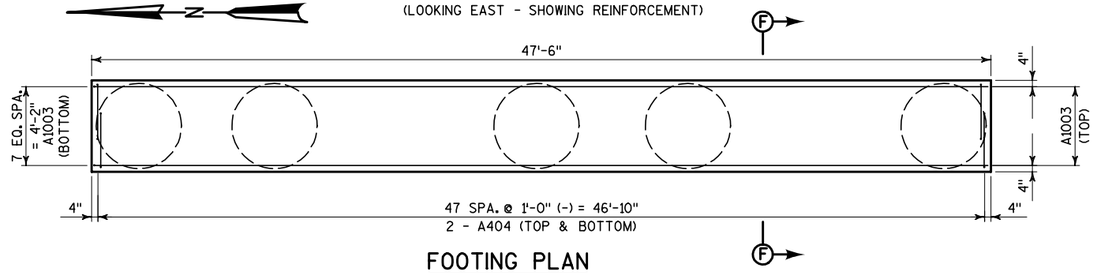
STATE PROJECT NUMBER

1060-05-75



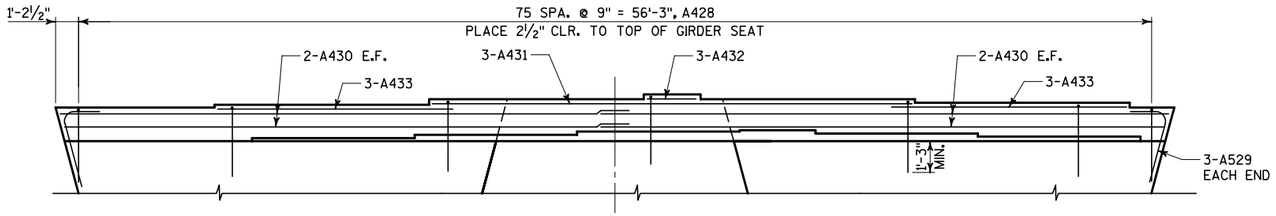
ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)



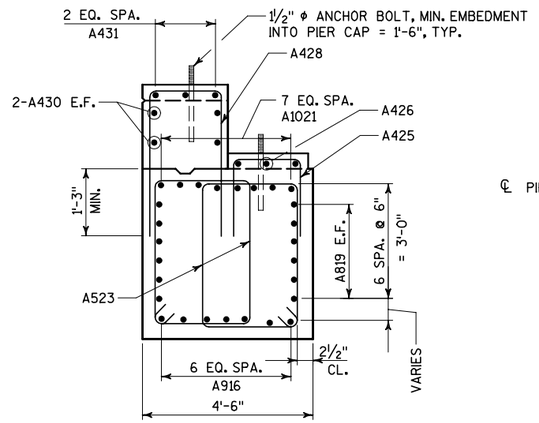
FOOTING PLAN

(SHOWING REINFORCEMENT)

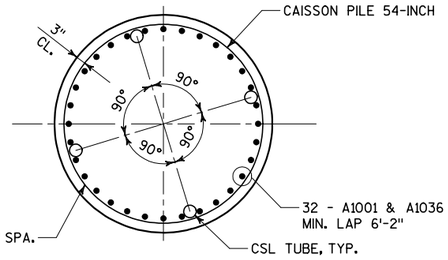


PARTIAL ELEVATION

(SHOWING GIRDER STEP REINFORCEMENT)



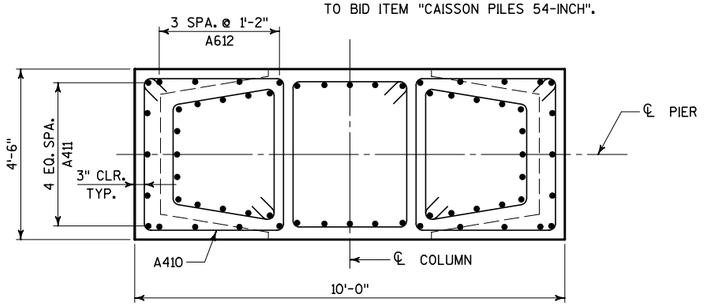
SECTION A-A



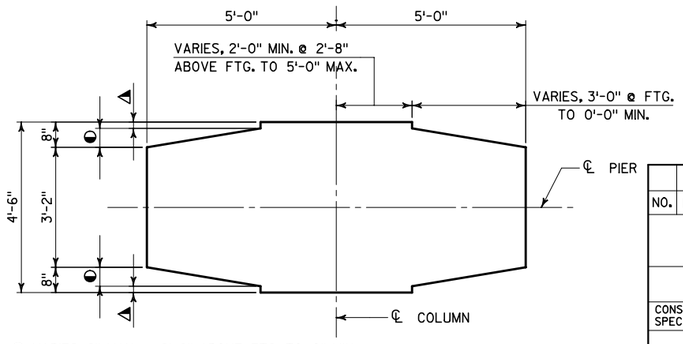
SECTION C-C

NOTE:

CSL TUBE MATERIAL AND INSTALLATION ARE INCIDENTAL TO BID ITEM "CAISSON PILES 54-INCH".



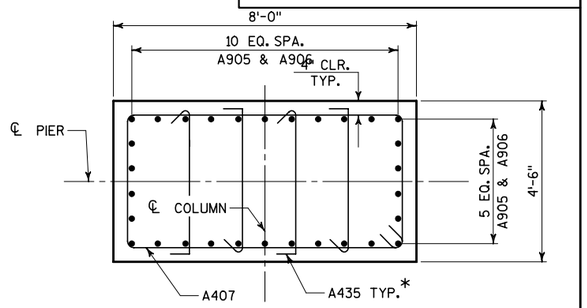
SECTION E-E



◐ VARIES 6" MAX. @ 2'-8" ABOVE FTG. TO 0" MIN.

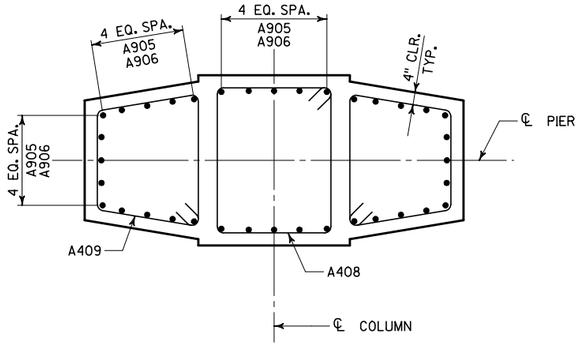
◭ VARIES 2" MIN. @ 2'-8" ABOVE FTG. TO 8" MAX.

SECTION THRU COLUMN



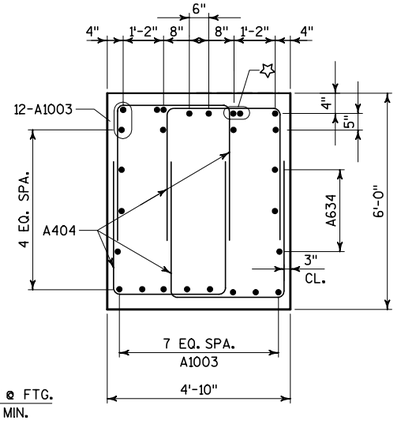
SECTION B-B

*ALTERNATE THE POSITION OF THE 90° & 135° HOOKS @ EACH TIE SPACING



SECTION D-D

☆ BUNDLE BARS, WRAP WITH WIRE @ 2'-0" CENTERS



SECTION F-F

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P1-004 REINF. LAYOUT & DETAILS

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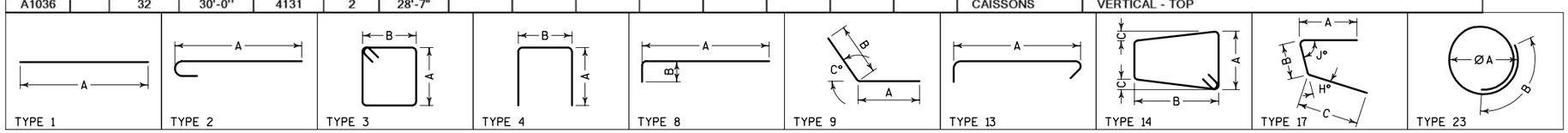
FILE NAME: R:\cabridges\1312\cds\1312-045007D.dgn PEN TABLE: \\mtp\FinalDgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:37 Plotted by: emccrigh

STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
A1001		64	48'-8"	13402	1	48'-8"									CAISSONS	VERTICAL - BOTTOM & MIDDLE
A402		114	13'-8"	1041	23	4'-0"	1'-0"								CAISSONS	TIES
A1003		20	50'-0"	4303	4	1'-9½"	47'-0"								FOOTING	TOP AND BOTTOM
A404		192	9'-10"	1261	4	3'-6"	3'-0"								FOOTING	STIRRUPS
A905	E	102	12'-8"	4393	8	11'-4"	1'-7"								COLUMNS	VERTICAL
A906	E	102	23'-0"	7976	1	23'-0"									COLUMNS	VERTICAL
A407	E	18	22'-11"	276	3	3'-10"	7'-4"								COLUMNS	TIES
A408	E	36	14'-3"	343	3	3'-10"	3'-0"								COLUMNS	TIES
A409	E	72	12'-1"	581	14	3'-6"	2'-8"	5"							COLUMNS	TIES
A410	E	4 SERIES OF 13	9'-10" TO 16'-6"	457	3	4'-0"	8" TO 4'-0" BY $3^3/_8$"								COLUMNS	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
A411	E	20	17'-6"	234	1	17'-6"									COLUMNS	VERTICAL
A612	E	8 SERIES OF 4	3'-2" TO 14'-11"	437	1	3'-2" TO 14'-11" BY 3'-11"									COLUMNS	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
A413	E	8	7'-6"	40	1	7'-6"									COLUMNS	TOP
A614	E	10	10'-6"	158	1	10'-6"									CAP	BOTTOM @ ENDS
A915	E	14	15'-0"	714	1	15'-0"									CAP	BOTTOM
A916	E	7	24'-0"	571	9	12'-0"	12'-0"	25.00							CAP	BOTTOM
A617	E	4	4'-4"	26	1	4'-4"									CAP	SIDES
A618	E	4	13'-2"	79	1	13'-2"									CAP	SIDES
A819	E	2 SERIES OF 6	55'-11" TO 57'-3"	1813	1	55'-11" TO 57'-3 BY 3¼"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
A620	E	2	7'-6"	23	1	7'-6"									CAP	SIDES
A1021	E	8	59'-4"	2042	4	1'-9½"	56'-3"								CAP	TOP
A522	E	8 SERIES OF 11	12'-11" TO 15'-1"	1285	3	3'-4" TO 4'-5" BY $1^1/_8$"	2'-9"								CAP	STIRRUPS, BUNDLE AND TAG EACH SERIES SEPARATELY
A523	E	4 SERIES OF 4	13'-1" TO 14'-3"	228	3	3'-5" TO 4'-0" BY $2^3/_8$"	2'-9"								CAP	STIRRUPS, BUNDLE AND TAG EACH SERIES SEPARATELY
A524	E	10	7'-1"	74	17	2'-0"	3'-3"	2'-0"					62.51	75.00	CAP	VERTICAL @ ENDS
A425	E	40	5'-1"	136	4	1'-9"	1'-9"								CAP	VERTICAL GIRDER SEATS
A426	E	6	10'-0"	40	1	10'-0"									CAP	HORIZONTAL GIRDER SEATS
A427	E	3	12'-2"	24	1	12'-2"									CAP	HORIZONTAL GIRDER SEATS
A428	E	78	8'-5"	439	4	3'-3"	2'-1"								CAP	VERTICAL GIRDER SEATS
A529	E	6	5'-8"	35	17	2'-0"	3'-9"	0"						75.00	CAP	VERTICAL @ ENDS
A430	E	8	30'-0"	160	1	30'-0"									CAP	HORIZONTAL GIRDER SEATS
A431	E	3	25'-3"	51	1	25'-3"									CAP	HORIZONTAL GIRDER SEATS
A432	E	3	2'-7"	5	1	2'-7"									CAP	HORIZONTAL GIRDER SEATS
A433	E	6	12'-8"	51	1	12'-8"									CAP	HORIZONTAL GIRDER SEATS
A634		6	47'-0"	424	1	47'-0"									FOOTING	SIDES
A435	E	72	4'-6"	216	13	4'-6"									COLUMNS	TIES
A1036		32	30'-0"	4131	2	28'-7"									CAISSONS	VERTICAL - TOP



NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

TOTAL NON-EPOXY REINFORCEMENT WT (LB)	24,565
TOTAL EPOXY REINFORCEMENT WT (LB)	22,910

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

PIER P1-004
REINF. SCHEDULE

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3077

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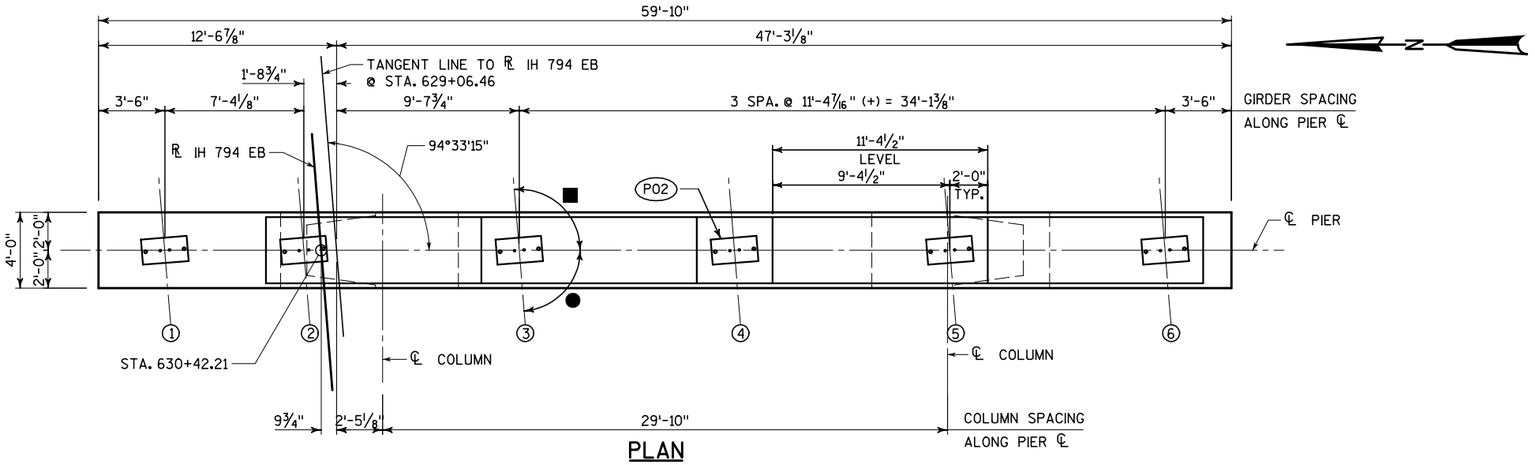
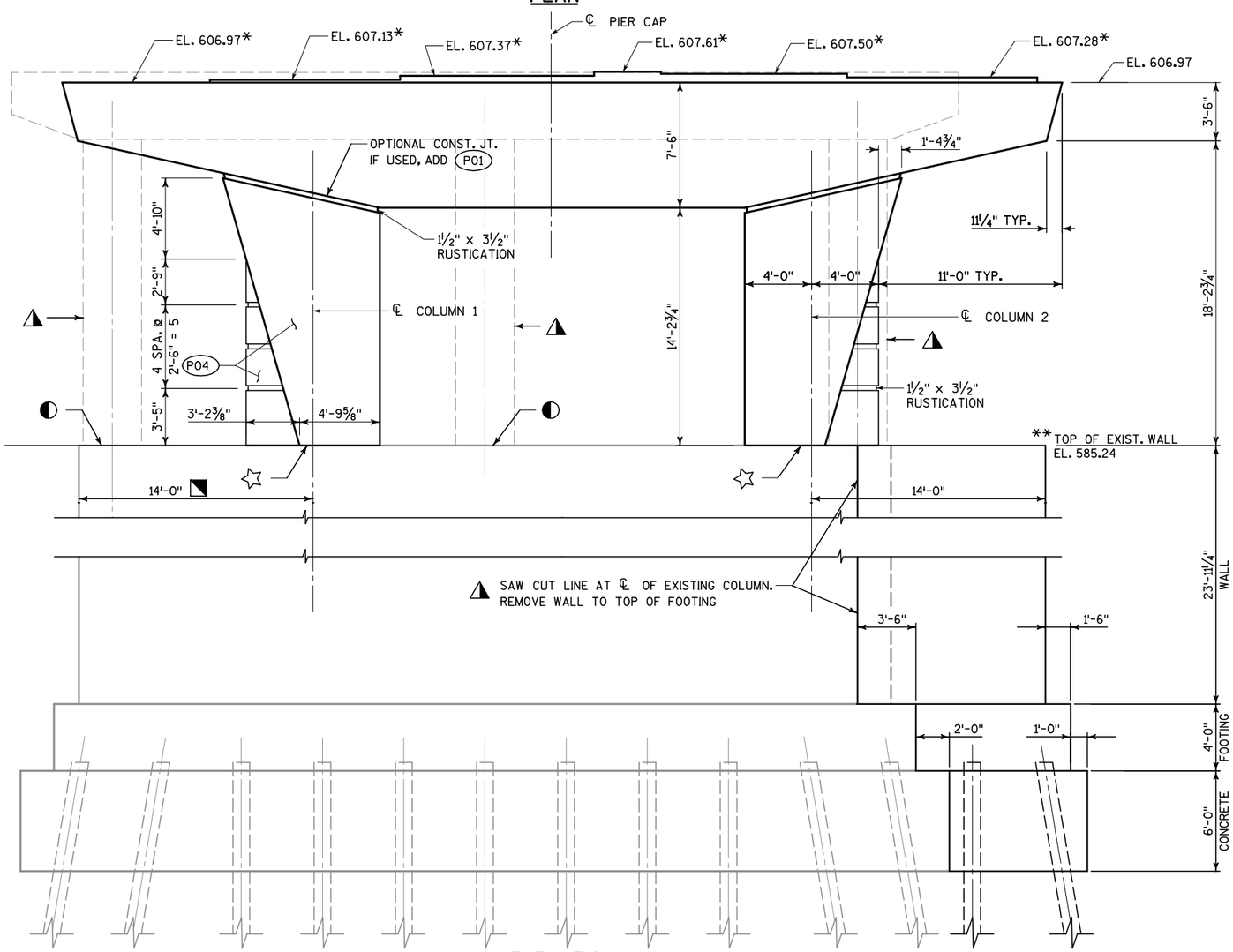
STATE PROJECT NUMBER
1060-05-75

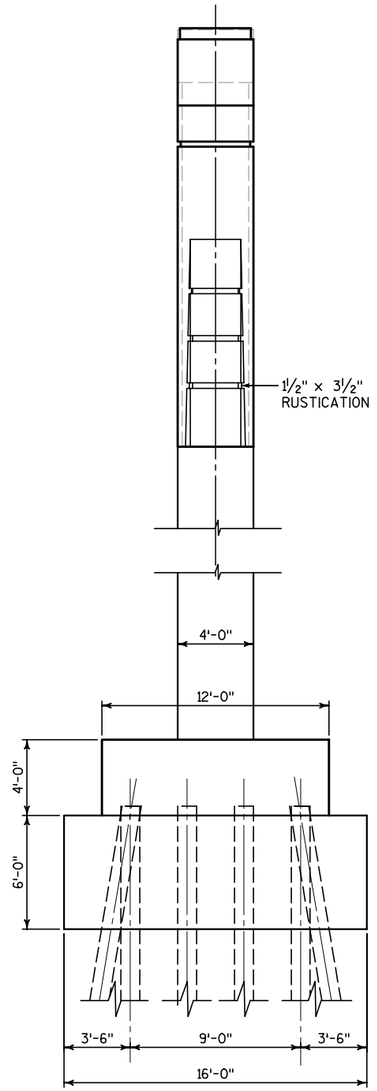


PLAN



ELEVATION

(PIER P2-004 LOOKING EAST)



ELEVATION

(PIER P2-004 LOOKING NORTH)

BEARING ANGLE

LOCATION		ANGLE
■	GIRDER 1	95°33'25"
	GIRDER 2	93°34'15"
	GIRDER 3	93°34'15"
	GIRDER 4	93°34'15"
	GIRDER 5	93°34'15"
	GIRDER 6	93°34'15"
●	GIRDER 1	84°26'35"
	GIRDER 2	85°26'45"
	GIRDER 3	85°26'45"
	GIRDER 4	85°26'45"
	GIRDER 5	85°26'45"
	GIRDER 6	85°26'45"

NOTES

◪ FIELD VERIFY HORIZONTAL DIMENSION @ ℄ PIER. IF VERIFIED DIMENSION VARIES BY MORE THAN 6" FROM THE PLAN DIMENSION, NEW DIMENSIONS MUST HAVE APPROVAL FROM THE ENGINEER.

* ELEVATIONS ARE GIVEN AT THE TOP OF CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

◭ REMOVE EXISTING PIER CAP, COLUMNS, & REINFORCEMENT TO TOP OF WALL. REMOVE PORTION OF WALL TO TOP OF FOOTING EXISTING STRUCTURAL REMOVALS SHOWN IN THESE PLANS ARE INCLUDED IN A LUMP SUM PAY ITEM THAT COVERS ALL EXISTING STRUCTURAL REMOVALS REQUIRED IN THE CONTRACT. SEE SPECIAL PROVISIONS.

◐ COAT AREA OF COLUMN REMOVAL WITH PROTECTIVE CLEAR COATING WHERE NOT COVERED BY PROPOSED COLUMNS.

** FIELD VERIFY TOP OF EXISTING WALL ELEVATION. IF VERIFIED DIMENSION VARIES BY MORE THAN 6" FROM THE PLAN DIMENSION, NEW DIMENSIONS MUST HAVE APPROVAL FROM THE ENGINEER.

☆ ROUGHEN AREA UNDER PROPOSED COLUMNS TO AMPLITUDE OF ¼".

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6". ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) 2⅞" X 1'-4" X 2'-5" MASONRY PLATE, SEE "STEEL PLATE GIRDER BEARINGS" SHEET FOR DETAILS.

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 383.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P2-004

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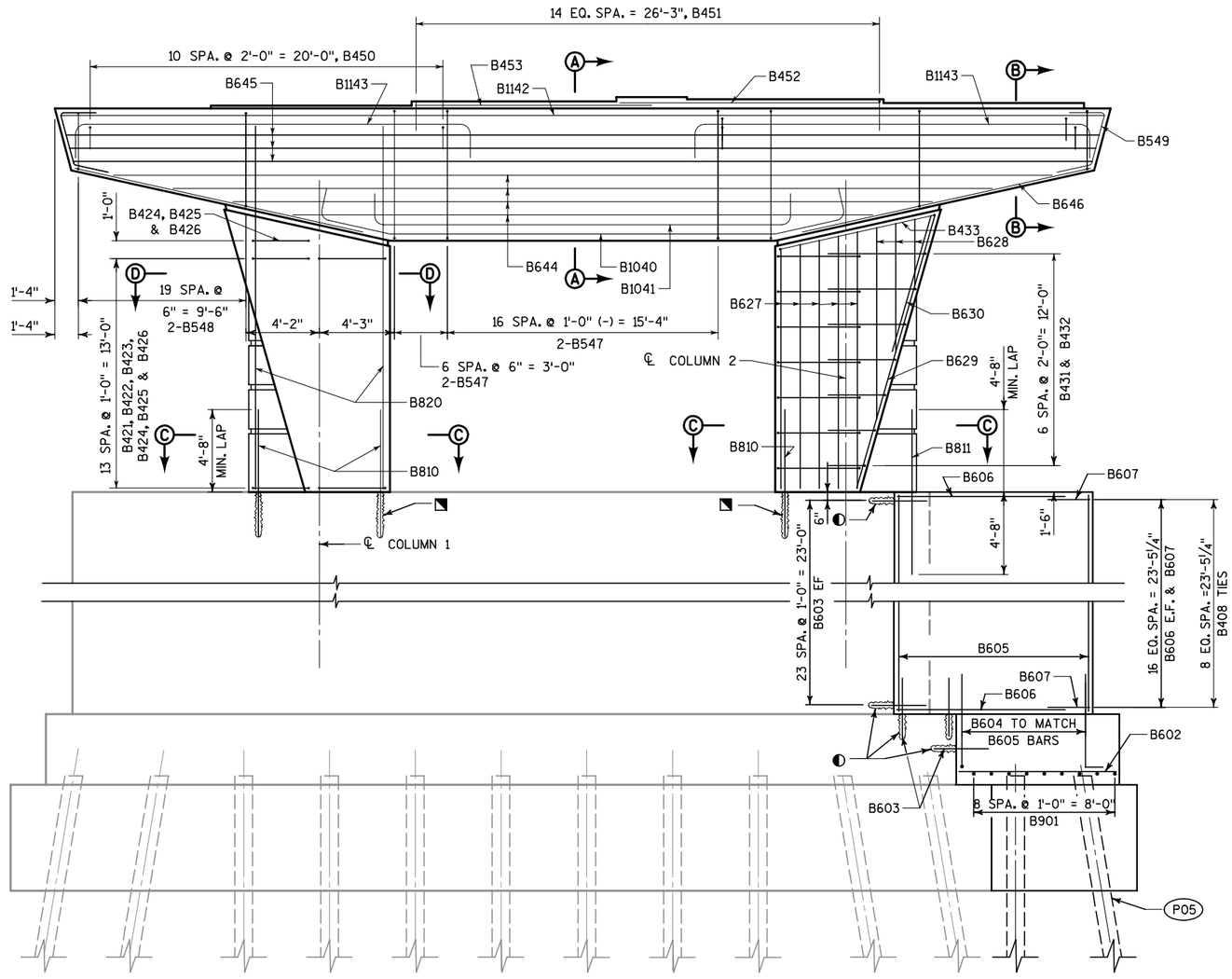
STATE PROJECT NUMBER
1060-05-75



ELEVATION

(PIER P2-004 LOOKING EAST - REINFORCEMENT SHOWN)

NOTES

- CONCRETE MASONRY ANCHOR, TYPE L, NO. 8 BAR, HAVING A MIN. PULLOUT CAPACITY OF 48 KIPS. EMBED 2'-6"
- CONCRETE MASONRY ANCHOR, TYPE L, NO. 6 BAR, HAVING A MIN. PULLOUT CAPACITY OF 27 KIPS. EMBED 1'-6".
- (P05) HP 12 X 53 STEEL PILING WITH AN ALLOWABLE LOAD OF 55 TONS. ESTIMATED LENGTH = 55'.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

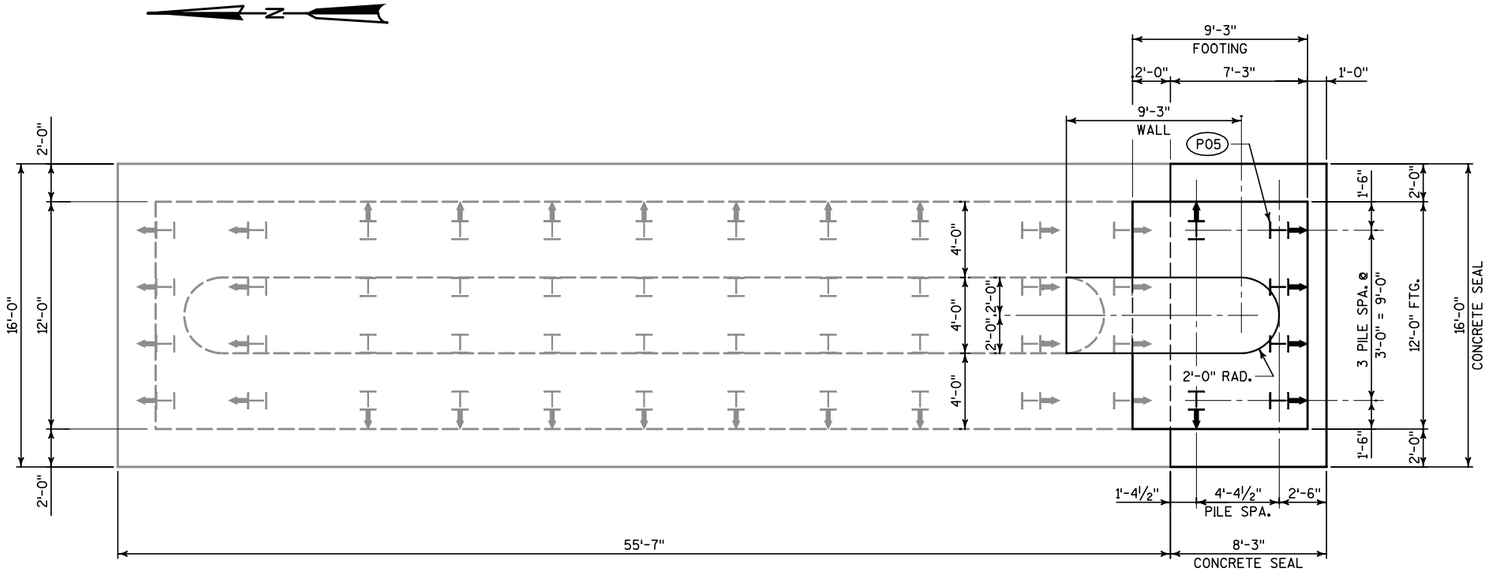
STRUCTURE B-40-1312 (004)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

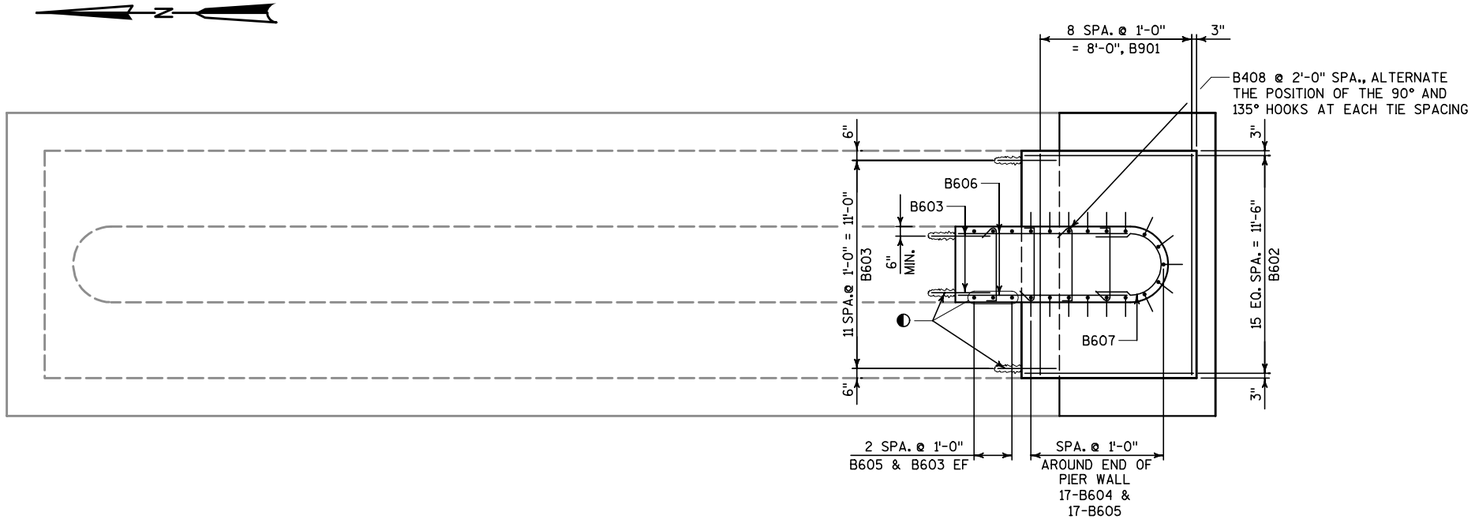
PIER P2-004
REINF. LAYOUT

SHEET 211 OF 396
3079

STATE PROJECT NUMBER
1060-05-75



FOOTING PLAN
(PIER P2-004 DIMENSIONS SHOWN)



FOOTING PLAN
(PIER P2-004 REINFORCEMENT SHOWN)

NOTES

◐ CONCRETE MASONRY ANCHOR, TYPE L, NO. 6 BAR, HAVING A MIN. PULLOUT CAPACITY OF 27 KIPS. EMBED 1'-6".

(P05) HP 12 X 53 STEEL PILING WITH AN ALLOWABLE LOAD OF 55 TONS. ESTIMATED LENGTH = 55'.

INDICATES BATTER PILE DIRECTION, BATTER PILES 1:6.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

PIER P2-004
FOOTING PLAN

SHEET 212 OF 396

3080

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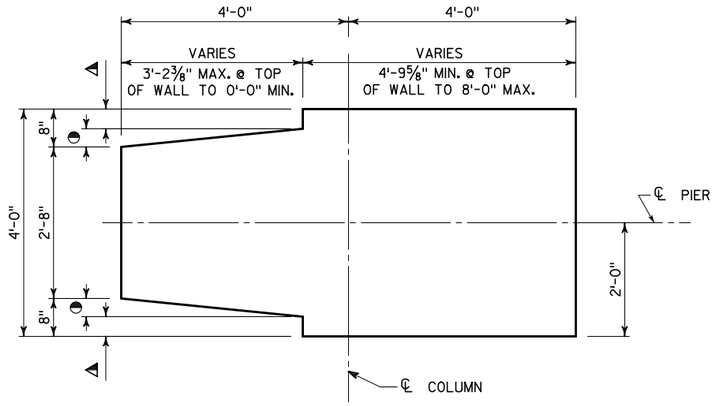
STATE PROJECT NUMBER

1060-05-75

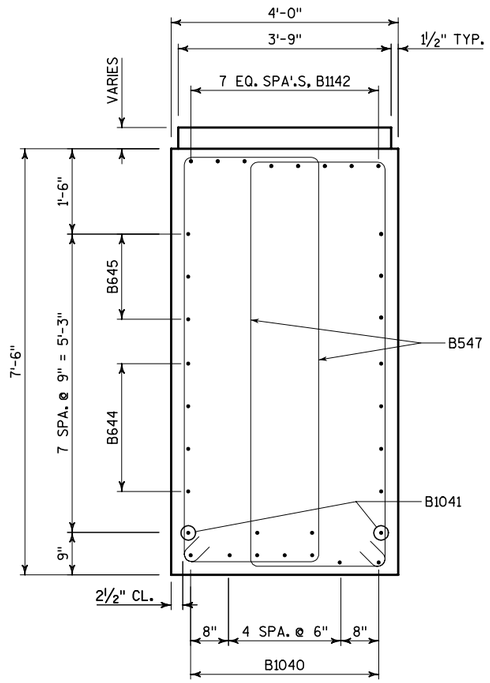


◑ VARIES 3⅞" MAX. @ TOP OF WALL TO 0" MIN.

▲ VARIES 4⅛" MIN. @ TOP OF WALL TO 8" MAX.

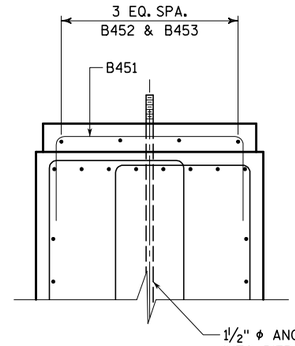
SECTION THRU COLUMN

(REINFORCEMENT NOT SHOWN)

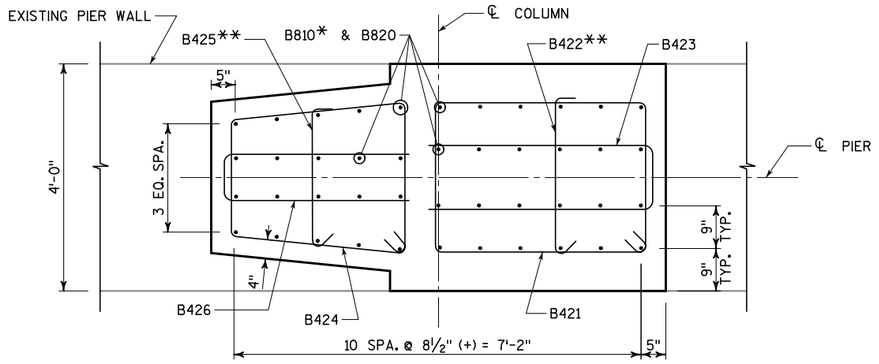


SECTION A-A

(SHOWING REINFORCEMENT)



SECTION THRU GIRDER SEAT

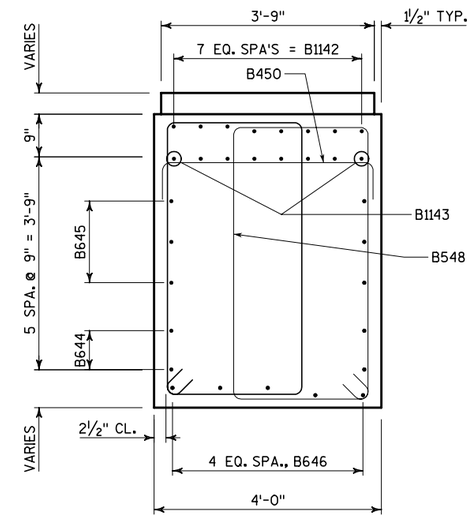


* B810 TO BE ANCHORED (TYPE L) A MIN. OF 2'-6" INTO EXISTING PIER WALL.

** ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS AT EACH TIE SPACING.

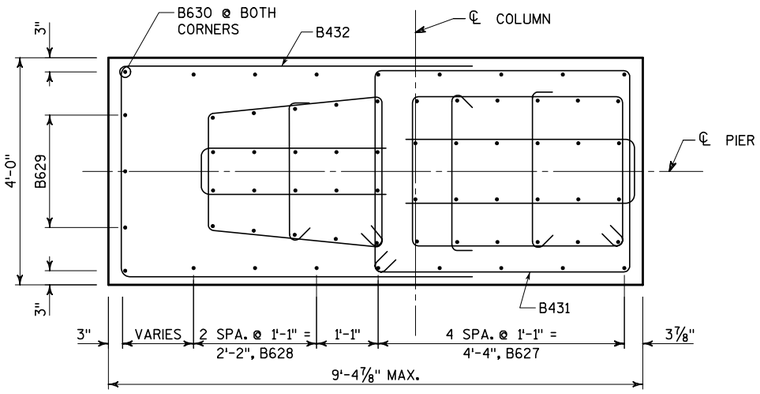
COLUMN 1 SECTION C-C

(SHOWING REINFORCEMENT)



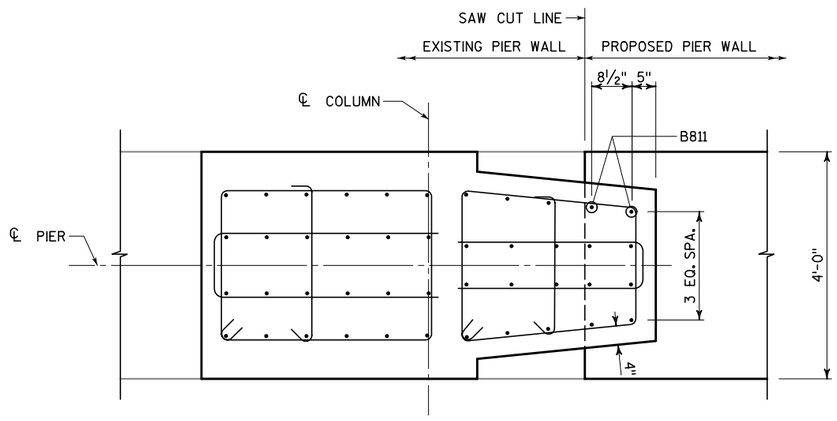
SECTION B-B

(SHOWING REINFORCEMENT)



SECTION D-D

(SHOWING REINFORCEMENT)



FOR DETAILS AND DIMENSIONS NOT SHOWN, SEE "COLUMN 1 SECTION C-C"

COLUMN 2 SECTION C-C

(SHOWING REINFORCEMENT)

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P2-004 DETAILS

SHEET 213 OF 396

3081

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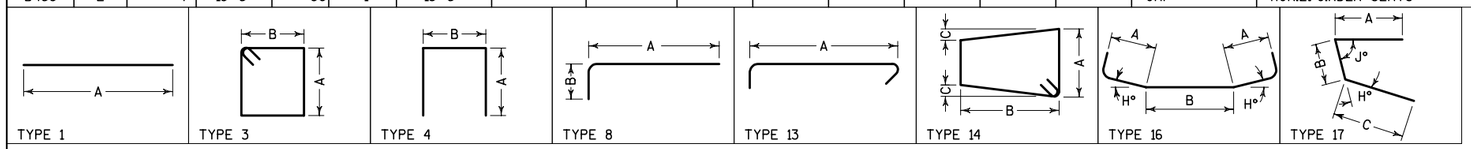
BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
B901		9	11'-6"	352	1	11'-6"									FOOTING	TRANSVERSE
B602		16	8'-10"	214	1	8'-10"									FOOTING	LONGITUDINAL
B603		66	3'-6"	347	1	3'-6"									DOWELS	
B604		17	6'-4"	162	8	5'-6"	1'-0"								FOOTING	VERTICAL
B605		23	23'-7"	815	1	23'-7"									WALL	VERTICAL
B606		34	9'-0"	460	1	9'-0"									WALL	HORIZONTAL
B607		17	8'-11"	228	37	3'-6"	3'-4"	3'-6"							WALL	HORIZONTAL
B408		36	4'-7"	110	13	3'-6"									WALL	TIES
B810		80	7'-2"	1531	1	7'-2"									COL. DOWELS	COLUMN ANCHORS INTO EXISTING WALL
B811	E	8	9'-4"	199	1	9'-4"									COL. DOWELS	COLUMN ANCHORS INTO NEW WALL
B820	E	88	20'-7"	4837	1	20'-7"									COLUMN	VERTICAL
B421	E	28	13'-4"	249	3	3'-9"	2'-8"								COLUMN	TIES
B422	E	28	3'-4"	62	13	2'-8"									COLUMN	TIES
B423	E	28	8'-7"	161	4	3'-10"	1'-2"								COLUMN	TIES
B424	E	30	11'-5"	229	14	2'-8"	3'-1"	4"							COLUMN	TIES
B425	E	30	3'-1"	62	13	2'-5"									COLUMN	TIES
B426	E	30	7'-0"	140	4	3'-2"	10½"								COLUMN	TIES
B627	E	2 series of 5	13'-7" to 14'-6"	211	1	13'-7" to 14'-6" by 2¾"									COLUMN	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
B628	E	4 series of 3	10'-10" to 3'-9"	132	1	10'-10" to 3'-9" by 3'-6½"									COLUMN	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
B629	E	6	16'-1"	145	1	16'-1"									COLUMN	VERTICAL
B630	E	4	8'-0"	48	1	8'-0"									COLUMN	VERTICAL
B431	E	14	16'-9"	157	3	4'-6½"	3'-7"								COLUMN	TIES
B432	E	2 series of 7	14'-3" to 7'-4"	101	4	5'-5½" to 2'-0" by 6⅞"	3'-7"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
B433	E	2	26'-1"	35	3	9'-2½"	3'-7"								COLUMN	TIES
B1040	E	7	33'-0"	994	16	4'-2"	21'-9"						12.49		CAP	BOTTOM
B1041	E	4	26'-7"	458	4	1'-9½"	23'-8"								CAP	BOTTOM
B1142	E	8	59'-2"	2515	1	59'-2"									CAP	TOP
B1143	E	16	24'-10"	2111	4	1'-11½"	21'-8"								CAP	TOP
B644	E	2 series of 4	32'-11" to 53'-2"	517	1	32'-11" to 53'-2" by 6'-9"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
B645	E	2 series of 3	57'-9" to 58'-7"	524	1	57'-9" to 58'-7" by 5"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
B646	E	10	16'-9"	252	1	16'-9"									CAP	BOTTOM @ ENDS
B547	E	58	19'-7"	1185	3	7'-1"	2'-5"								CAP	STIRRUPS
B548	E	4 series of 20	15'-11" to 11'-9"	1156	3	5'-3" to 3'-2" by 1⅜"	2'-5"								CAP	STIRRUPS @ ENDS, BUNDLE AND TAG EACH SERIES SEPARATELY
B549	E	10	7'-0"	73	17	2'-0"	3'-2"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
B450	E	22	4'-8"	69	4	8"	3'-7"								CAP	TIE
B451	E	15	6'-1"	61	4	1'-6"	3'-4"								CAP	VERTICAL GIRDER SEATS
B452	E	4	14'-9"	39	1	14'-9"									CAP	HORIZ. GIRDER SEATS
B453	E	4	13'-5"	36	1	13'-5"									CAP	HORIZ. GIRDER SEATS



TOTAL NON-EPOXY REINFORCEMENT WT (LB)	4219
TOTAL EPOXY REINFORCEMENT WT (LB)	16758

STATE PROJECT NUMBER

1060-05-75

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

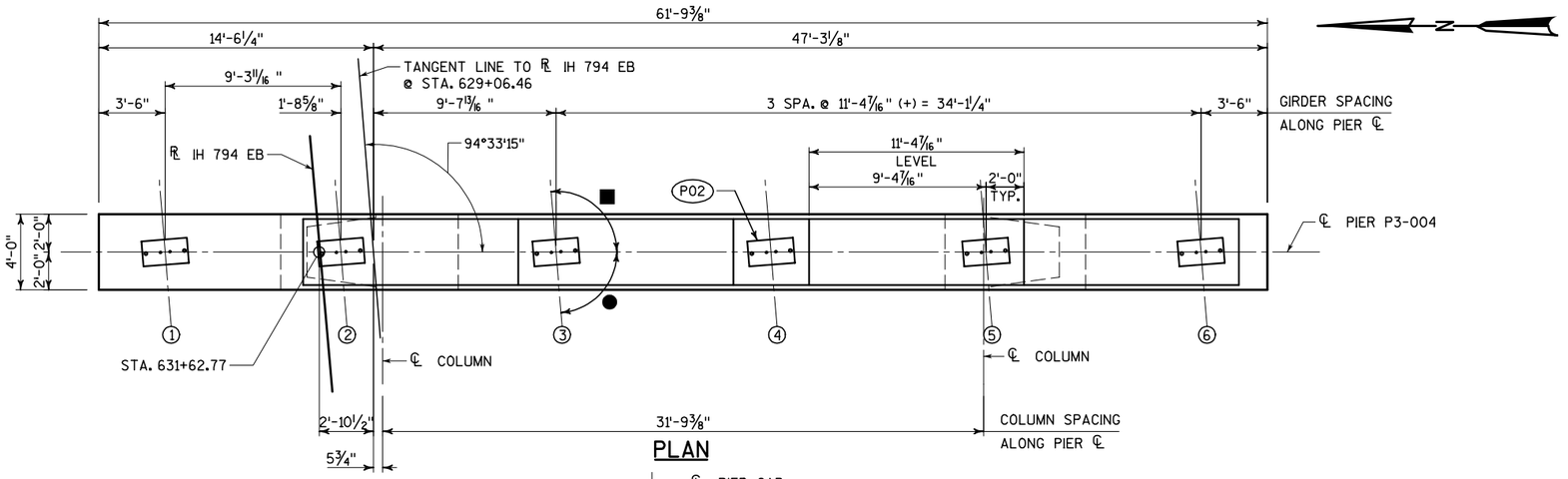
CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P2-004
REINF. SCHEDULE

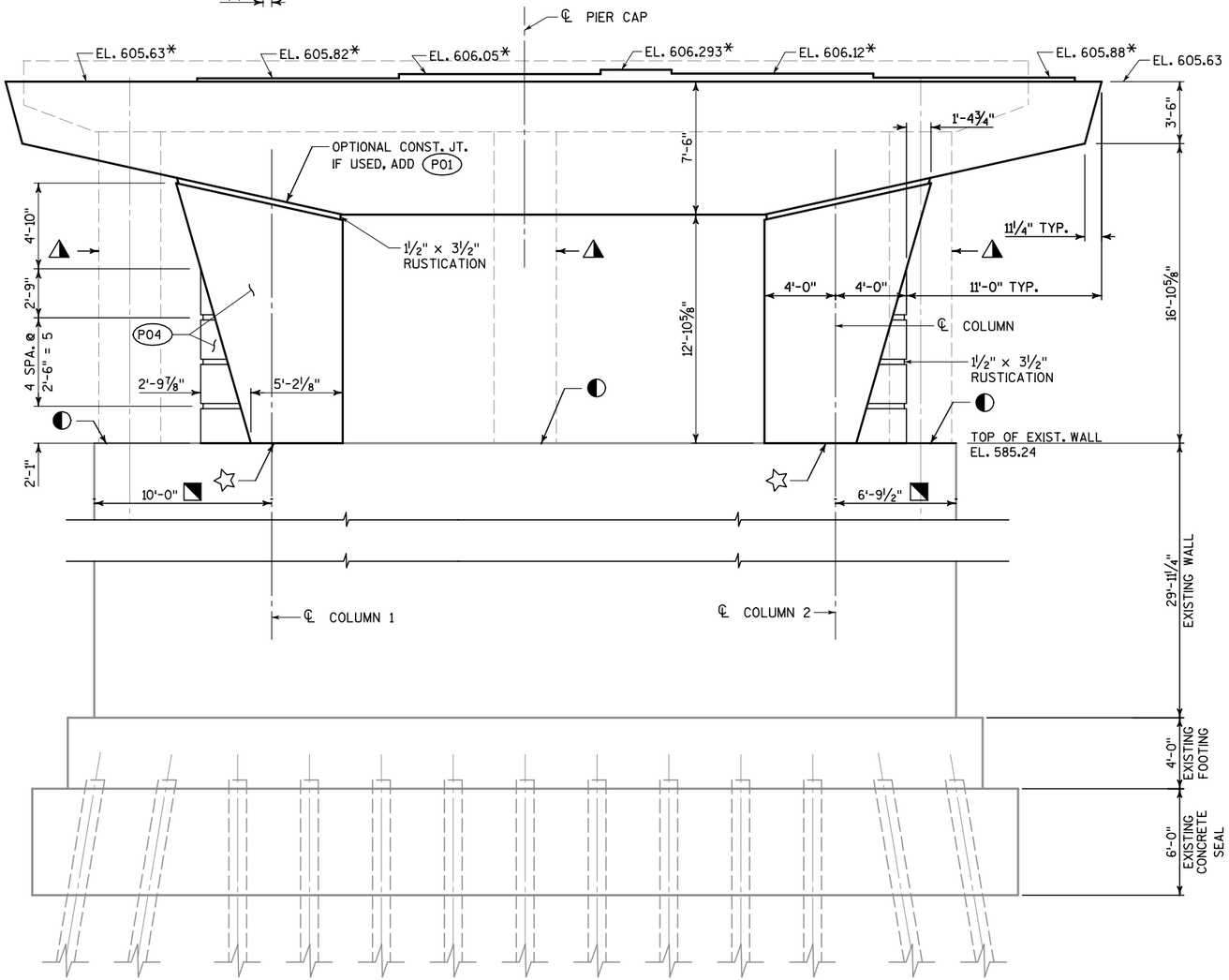
SHEET 214 OF 396

3082

STATE PROJECT NUMBER
1060-05-75



PLAN

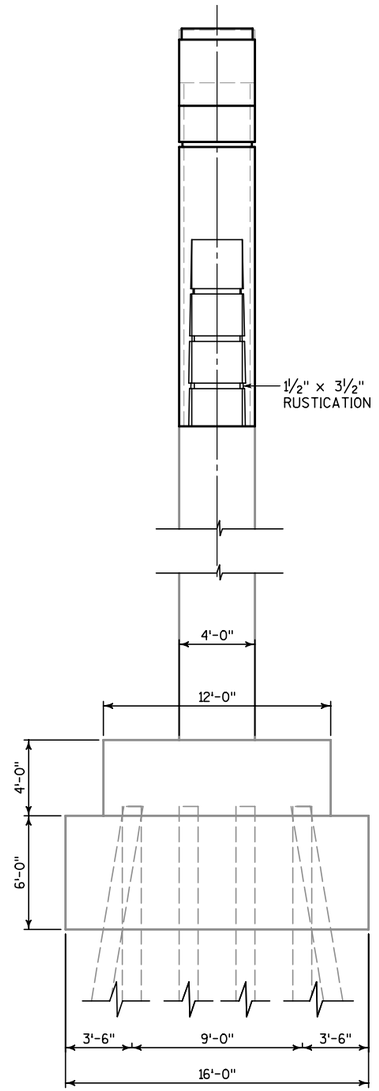


ELEVATION

(PIER P3-004 LOOKING EAST)

BEARING ANGLE

	LOCATION	ANGLE
■	GIRDER 1	95°33'41"
	GIRDER 2	94°33'15"
	GIRDER 3	94°33'15"
	GIRDER 4	94°33'15"
	GIRDER 5	94°33'15"
	GIRDER 6	94°33'15"
●	GIRDER 1	84°26'19"
	GIRDER 2	85°26'45"
	GIRDER 3	85°26'45"
	GIRDER 4	85°26'45"
	GIRDER 5	85°26'45"
	GIRDER 6	85°26'45"



ELEVATION

(PIER P3-004 LOOKING NORTH)

NOTES:

◥ FIELD VERIFY HORIZONTAL DIMENSION @ ℄ PIER. IF VERIFIED DIMENSION VARIES BY MORE THAN 6" FROM THE PLAN DIMENSION, NEW DIMENSIONS MUST HAVE APPROVAL FROM THE ENGINEER.

* ELEVATIONS ARE GIVEN AT THE TOP OF CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

◭ REMOVE EXISTING PIER CAP, COLUMNS, & REINFORCEMENT TO TOP OF WALL. REMOVE PORTION OF WALL TO TOP OF FOOTING EXISTING STRUCTURAL REMOVALS SHOWN IN THESE PLANS ARE INCLUDED IN A LUMP SUM PAY ITEM THAT COVERS ALL EXISTING STRUCTURAL REMOVALS REQUIRED IN THE CONTRACT. SEE SPECIAL PROVISIONS.

◐ COAT AREA OF COLUMN REMOVAL WITH PROTECTIVE CLEAR COATING WHERE NOT COVERED BY PROPOSED COLUMNS.

** FIELD VERIFY TOP OF EXISTING WALL ELEVATION. IF VERIFIED DIMENSION VARIES BY MORE THAN 6" FROM THE PLAN DIMENSION, NEW DIMENSIONS MUST HAVE APPROVAL FROM THE ENGINEER.

☆ ROUGHEN AREA UNDER PROPOSED COLUMNS TO AMPLITUDE OF 1/4".

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6". ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) 2 3/8" X 1'-2" X 2'-4" MASONRY PLATE, SEE "STEEL PLATE GIRDER BEARING DETAILS" SHEET FOR DETAILS.

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 383.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P3-004

SHEET 215 OF 396

3083

8

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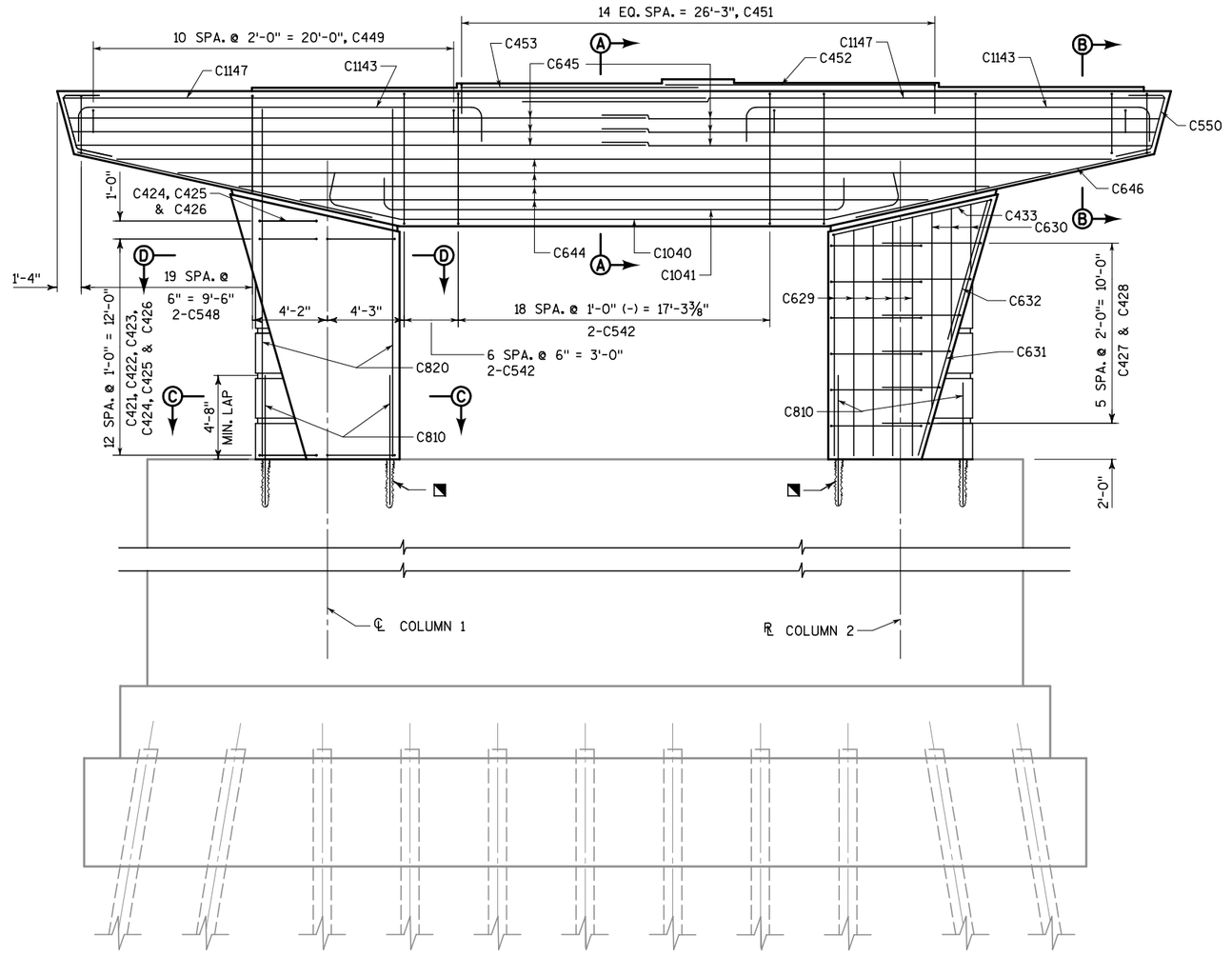
STATE PROJECT NUMBER
1060-05-75



ELEVATION

(PIER P3-004 LOOKING EAST - REINFORCEMENT SHOWN)

NOTES

◥ CONCRETE MASONRY ANCHOR, TYPE L, NO. 8 BAR, HAVING A MIN. PULLOUT CAPACITY OF 48 KIPS. EMBED 2'-6"

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

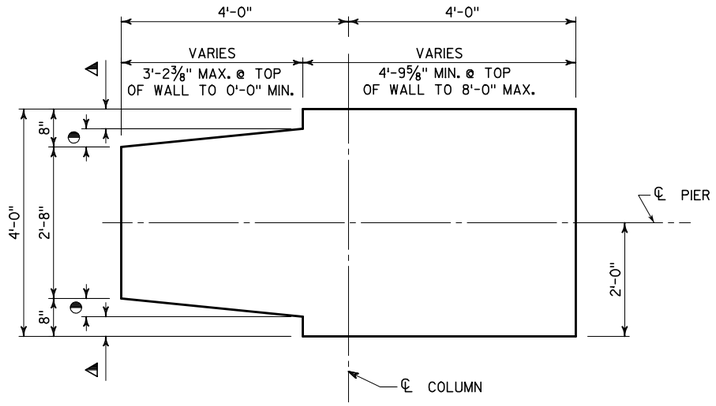
PIER P3-004 REINF. LAYOUT

SHEET 216 OF 396

3084

STATE PROJECT NUMBER

1060-05-75

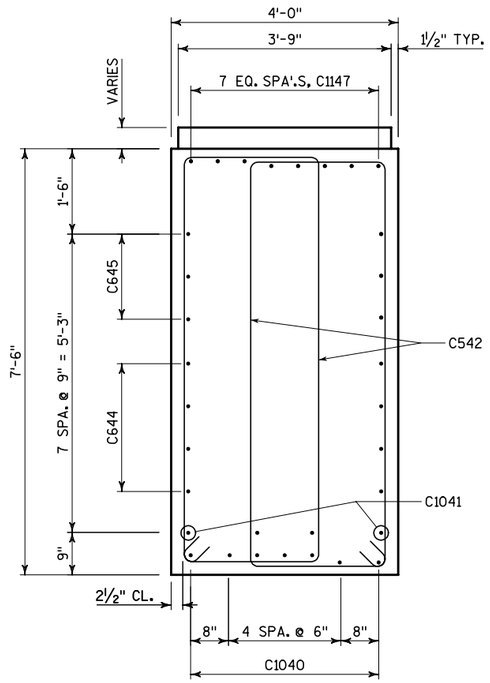


◑ VARIES 3⅜" MAX. @ TOP OF WALL TO 0" MIN.

◭ VARIES 4⅝" MIN. @ TOP OF WALL TO 8" MAX.

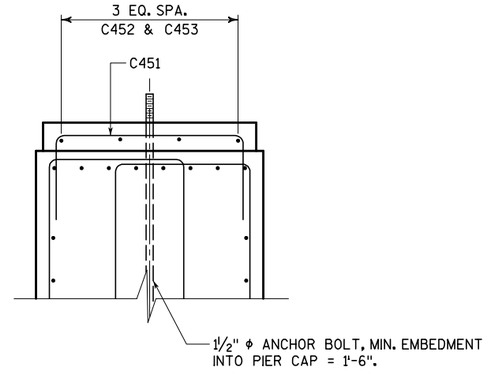
SECTION THRU COLUMN

(REINFORCEMENT NOT SHOWN)

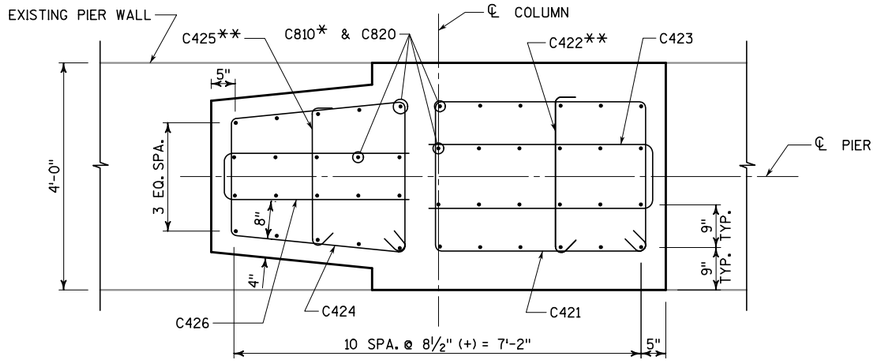


SECTION A-A

(SHOWING REINFORCEMENT)



SECTION THRU GIRDER SEAT

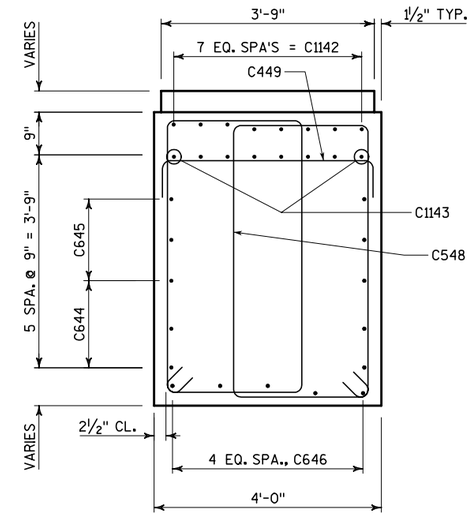


* C810 TO BE ANCHORED (TYPE L) A MIN. OF 2'-6" INTO EXISTING PIER WALL.

** ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS AT EACH TIE SPACING.

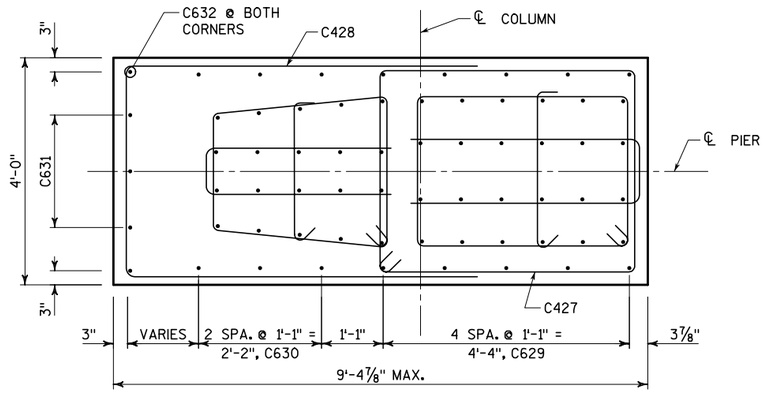
COLUMN 1 SECTION C-C

(SHOWING REINFORCEMENT)



SECTION B-B

(SHOWING REINFORCEMENT)



SECTION D-D

(SHOWING REINFORCEMENT)

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P3-004 DETAILS

SHEET 217 OF 396

3085

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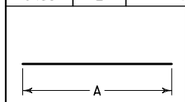
STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
C810		88	7'-2"	1684	1	7'-2"									COL. DOWELS	COLUMN ANCHORS INTO EXISTING WALL
C820	E	88	19'-3"	4523	1	19'-3"									COLUMN	VERTICAL
C421	E	26	13'-4"	232	3	3'-9"	2'-8"								COLUMN	TIES
C422	E	26	3'-4"	58	13	2'-8"									COLUMN	TIES
C423	E	26	8'-7"	149	4	3'-10"	1'-2"								COLUMN	TIES
C424	E	28	11'-5"	214	14	2'-8"	3'-1"	4"							COLUMN	TIES
C425	E	28	3'-1"	58	13	2'-5"									COLUMN	TIES
C426	E	28	7'-0"	131	4	3'-2"	10½"								COLUMN	TIES
C427	E	12	16'-9"	134	3	4'-6½"	3'-7"								COLUMN	TIES
C428	E	2 series of 6	14'-2" to 8'-5"	90	4	5'-5" to 2'-6½" by 6⅞"	3'-7"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
C629	E	2 series of 5	12'-3" to 13'-3"	192	1	12'-3" to 13'-3" by 3"									COLUMN	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
C630	E	4 series of 3	10'-10" to 3'-9"	132	1	10'-10" to 3'-9" by 3'-6½"									COLUMN	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
C631	E	6	14'-9"	133	1	14'-9"									COLUMN	VERTICAL
C632	E	4	8'-0"	48	1	8'-0"									COLUMN	VERTICAL
C433	E	2	26'-1"	35	3	9'-2½"	3'-7"								COLUMN	TIES
C1040	E	7	35'-0"	1054	16	4'-2"	23'-8½"						12.49		CAP	BOTTOM
C1041	E	4	28'-7"	492	4	1'-9½"	25'-7½"								CAP	BOTTOM
C542	E	62	19'-7"	1266	3	7'-1"	2'-5"								CAP	STIRRUPS
C1143	E	16	24'-10"	2111	4	1'-11½"	21'-8"								CAP	TOP
C644	E	2 series of 4	34'-10" to 55'-2"	541	1	34'-10" to 55'-2" by 6'-9¼"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
C645	E	4 series of 3	31'-7" to 32'-0"	573	1	31'-7" to 32'-0" by 2½"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
C646	E	10	16'-9"	252	1	16'-9"									CAP	BOTTOM @ ENDS
C1147	E	16	35'-8"	3032	1	35'-8"									CAP	TOP
C548	E	4 series of 20	15'-11" to 11'-9"	1156	3	5'-3" to 3'-2" by 1⅜"	2'-5"								CAP	STIRRUPS @ ENDS, BUNDLE AND TAG EACH SERIES SEPARATELY
C449	E	22	4'-8"	69	4	8"	3'-7"								CAP	TIE
C550	E	10	7'-0"	73	17	2'-0"	3'-2"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
C451	E	15	6'-1"	61	4	1'-6"	3'-4"								CAP	VERTICAL GIRDER SEATS
C452	E	4	14'-11"	40	1	14'-11"									CAP	HORIZ. GIRDER SEATS
C453	E	4	13'-2"	35	1	13'-2"									CAP	HORIZ. GIRDER SEATS



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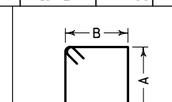

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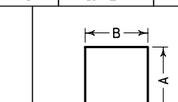

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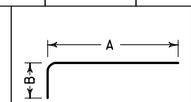

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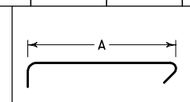
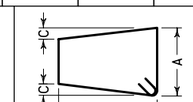
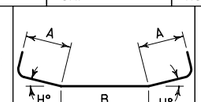


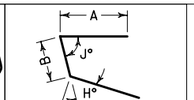
TYPE 13



TYPE 14



TYPE 16



TYPE 17

TOTAL NON-EPOXY REINFORCEMENT WT (LB)	1684
TOTAL EPOXY REINFORCEMENT WT (LB)	16884

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

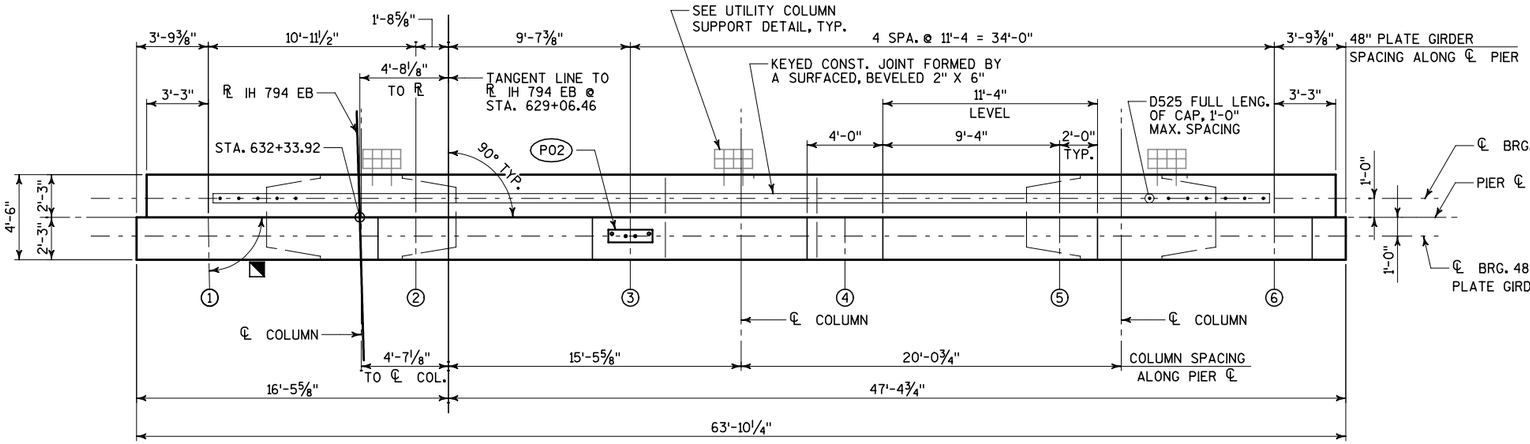
CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

PIER P3-004
REINF. SCHEDULE

SHEET 218 OF 396
3086

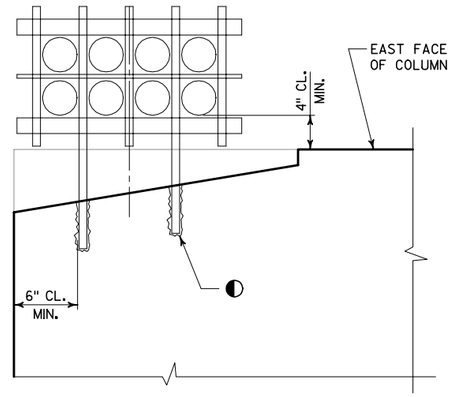
STATE PROJECT NUMBER

1060-05-75



BEARING ANGLE

	LOCATION	ANGLE
◥	GIRDER 1	89°0'9.1"
	GIRDER 2	90°0'0.0"
	GIRDER 3	90°0'0.0"
	GIRDER 4	90°0'0.0"
	GIRDER 5	90°0'0.0"
	GIRDER 6	90°0'0.0"

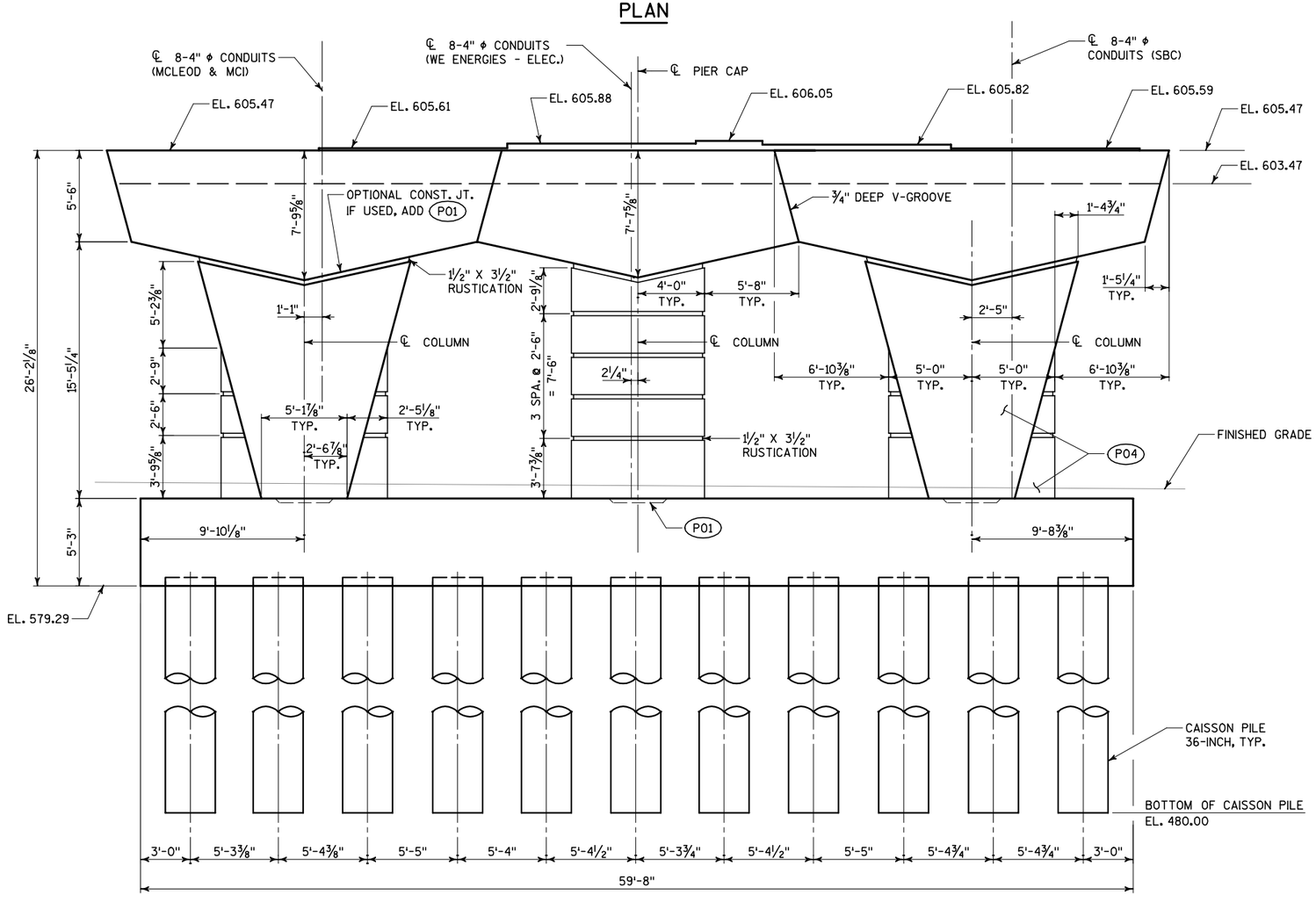


PLAN

UTILITY VERTICAL SUPPORT DETAIL

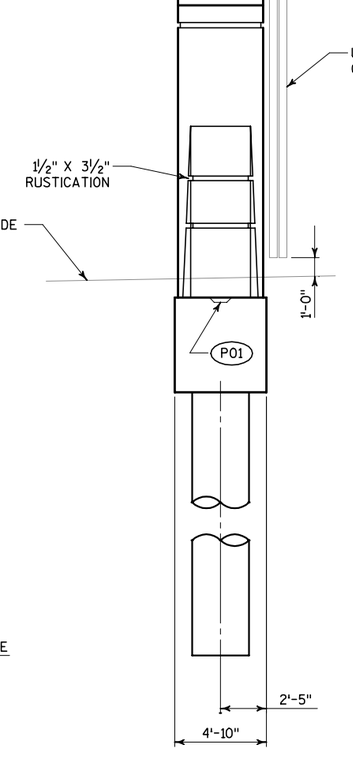
(TYP. FOR ALL UTILITIES)

PLAN



ELEVATION

(PIER P4-004 LOOKING EAST)



END ELEVATION

(PIER P4-004 LOOKING NORTH)

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) 1½" X 8" X 2'-4" MASONRY PLATE, SEE "STEEL PLATE GIRDER BEARINGS" SHEET FOR DETAILS.

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 387.

◐ CONCRETE MASONRY ANCHORS SHALL MEET THE REQUIREMENTS FOR TYPE 'L" AS DESCRIBED IN THE STANDARD SPECIFICATIONS. MASONRY ANCHORS AND CONDUIT SUPPORTS ARE INCIDENTAL TO THE LUMP SUM UTILITY PAY ITEM UNIQUE TO THE UTILITY SPECIFIED. SIZE AND LOCATION OF VERTICAL SUPPORTS TO BE SPECIFIED BY THE UTILITY. SEE SPECIAL PROVISIONS. END UTILITY CONDUITS 1'-0" ABOVE FINISHED GRADE.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P4-004

SHEET 219 OF 396

3087

STATE PROJECT NUMBER
1060-05-75

82 SPA. @ 9" = 61'-6", D426
PLACE 2½" CLR. TO TOP OF GIRDER SEAT

40 SPA. @ 1"-6" = 60'-0"
D525

* ALTERNATE D1036 & D1021 BARS SO ADJACENT LAP SPLICE OCCURS ON OPPOSITE END OF CAP

* D1036, 8'-3" MIN. LAP W/ D1021

* D1021

3-D427, 3-D428, 3-D429, 3-D430, D431 E.F.

3-D532 EACH END

5-D524 EACH END

5-D614 EACH END

D618, D617, D915, D916, D620, D819 3'-7" MIN. LAP, D413, D612, D411

1'-1¼" | 5'-2¾" | 10 SPA. @ 6" = 5'-0", 2-D522, SYM. ABOUT ℄ EXT. COLUMN (2 TYP.)

14 SPA. @ 1'-0" = 13'-5¼" D408, 2-D409

5'-10" MIN. LAP

5 SPA. @ 1'-0" = 5'-0", 2-D523, SYM. ABOUT ℄ INT. COLUMN

4'-2"

13 SPA. @ 1'-0" = 13'-0" D407 & D435

12 SPA. @ 1'-0" = 12'-0" D410

4"

D906, D905, D903

D1033, 3'-0" MIN., 2'-3"

D404 TYP., SEE FTG. PLAN FOR SPACING

D402

102 SPA. @ 1'-0" = 102'-0", D402

D1001

ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)

59'-8"

4'-10"

10 SPA. @ 5" = 4'-2" D903 (BOTT.)

D903 (TOP)

4"

59 SPA. @ 1'-0" = 59'-0"
D404 (TOP & BOTTOM)

FOOTING PLAN

(SHOWING REINFORCEMENT)

* D525 MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. EMBED 1'-0".

2 EQ. SPA. D428

1½" ϕ ANCHOR BOLT, MIN. EMBEDMENT INTO PIER CAP = 1'-6"

2-D431 E.F., D426, 7 EQ. SPA. D1021, D1036, D525 *

1'-3" MIN., D523, D819 E.F., 6 SPA. @ 6" = 3'-0" VARIES

7 EQ. SPA. D916

2½" CL. TYP.

4'-6"

SECTION A-A

10 EQ. SPA. D905 & D906

4'-6", 2'-3", ℄ PIER, ℄ COLUMN, 4" CL. TYP., 5 EQ. SPA. D905 & D906

D407, *D435 TYP.

8'-0"

SECTION B-B

* ALTERNATE THE POSITION OF THE 90° & 135° HOOKS @ EACH TIE SPACING

CAISSON PILE 36-INCH

3" CL., 120°, CSL TUBE, TYP.

D402, 18 - D1001 & D1033 MIN. LAP 6'-2"

SECTION C-C

4 EQ. SPA. D905 D906, 4 EQ. SPA. D905 D906, D410, 4" CLR. TYP., ℄ PIER

4 EQ. SPA. D905 D906, D408, D409, D411

1'-2" D612, 1'-2" D612

℄ COLUMN

SECTION D-D

NOTE:

CSL TUBE MATERIAL AND INSTALLATION ARE INCIDENTAL TO BID ITEM "CAISSON PILES 36-INCH".

VARIES, 10'-0" MIN.

3 SPA. @ 1'-2" D612, ℄ COLUMN

4'-6", 4 EQ. SPA. D411, 3" CL. TYP., D410

SECTION E-E

☆ BUNDLE BARS, WRAP WITH WIRE @ 2'-0" CENTERS

6", 4", 1'-2", 8", 8", 1'-2", 4"

℄ PIER, 10-D903, D404, 4", 5", D634, 5'-3", 4 EQ. SPA., 3" CL.

9 EQ. SPA. D903

4'-10"

SECTION F-F

5'-0", 5'-0"

VARIES, 2'-6⅞" MIN. @ FTG. TO 5'-0" MAX.

VARIES, 2'-5⅛" MAX. @ FTG. TO 0'-0" MIN.

8", 3'-2", 4'-6", 8", ℄ PIER

℄ COLUMN

◐ VARIES 4⅞" MAX. @ FTG. TO 0" MIN.
◭ VARIES 3⅛" MIN. @ FTG. TO 8" MAX.

SECTION THRU COLUMN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

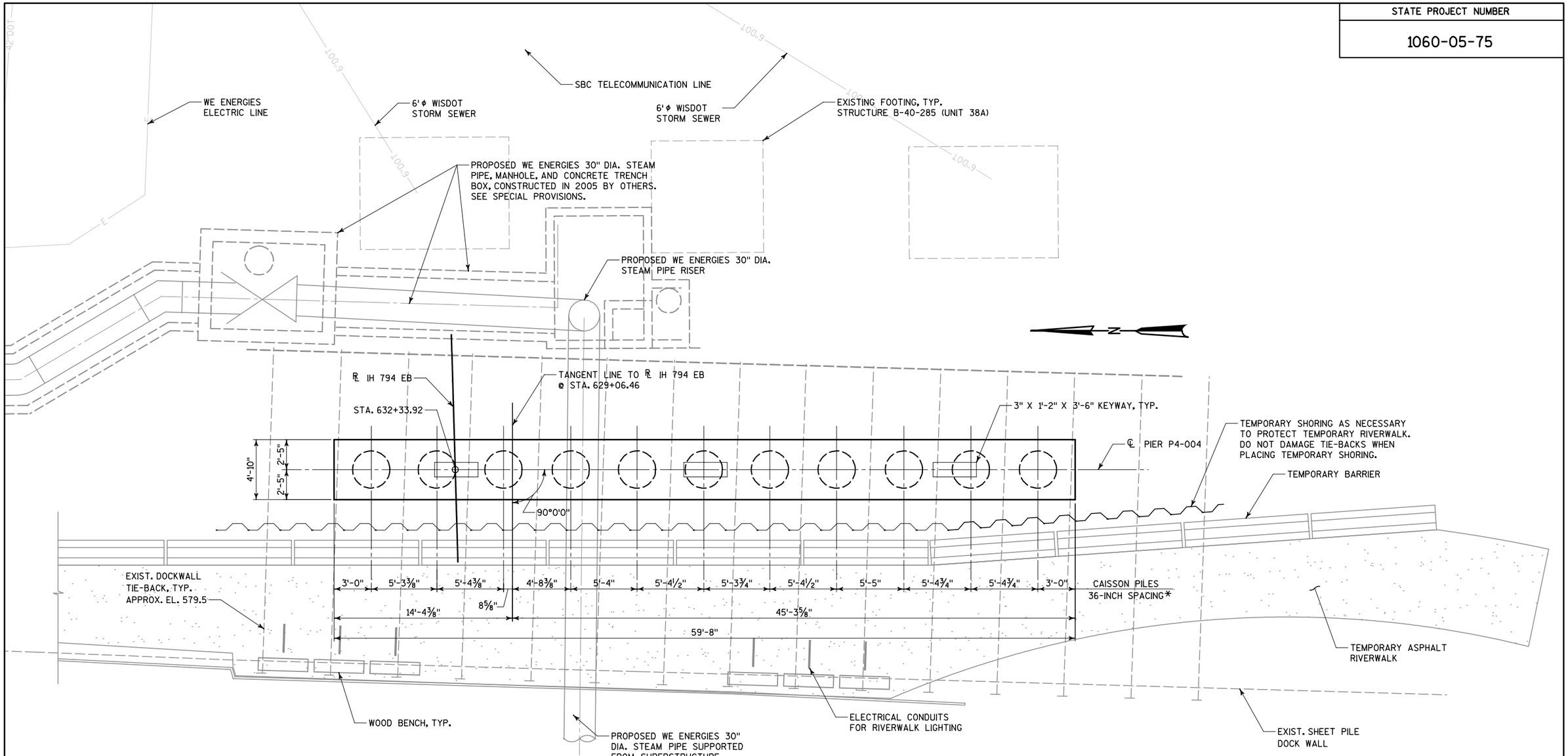
PIER P4-004 REINF. LAYOUT & DETAILS

SHEET 220 OF 396

3088

8

STATE PROJECT NUMBER
1060-05-75



FOOTING PLAN

NOTE:

THE TEMPORARY RIVERWALK CONSISTING OF TEMPORARY CONCRETE BARRIER, ASHPALT PAVEMENT, LIGHTING, BENCHES, PLANTS AND WATERING FACILITIES SHALL BE RESTORED TO THE ORIGINAL CONDITION IF DAMAGED OR REMOVED DURING CONSTRUCTION. SEE SPECIAL PROVISIONS FOR LIMITATIONS ON CLOSING THE TEMPORARY RIVERWALK.

* CAISSON PILE SPACING IS BASED ON AS-BUILT INFORMATION OF THE EXISTING TIE-BACKS. EXCAVATE TO EXPOSE TIE-BACKS BEFORE CAISSON PLACEMENT. CAISSONS MAY BE SHIFTED UP TO 6" MAX. ALONG ℄ PIER TO AVOID CONFLICT WITH TIE-BACKS. IF MORE THAN A 6" SHIFT IS NECESSARY TO AVOID CONFLICT WITH TIE-BACKS, OBTAIN APPROVAL FOR REVISED DIMENSIONS FROM THE ENGINEER.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

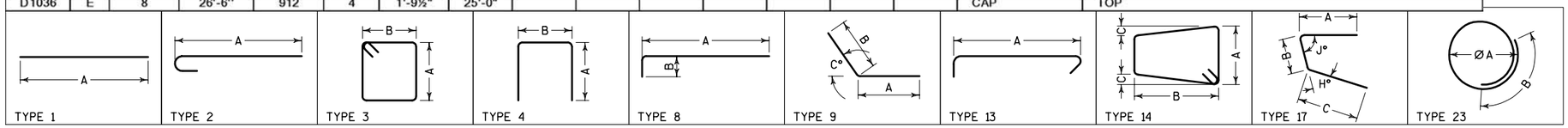
PIER P4-004
FOOTING PLAN

SHEET 221 OF 396
3089

FILE NAME: R:\C\bridges\1312\cds\1312-04S020D.dgn PEN TABLE: \\mtps\Final\Dgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:37 Plotted by: emccrigh

STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
D1001		18	60'-0"	4647	1	60'-0"									CAISSONS	VERTICAL - BOTTOM
D402		103	8'-11"	614	23	2'-6"	1'-0"								CAISSONS	TIES
D903		20	59'-2"	4023	1	59'-2"									FOOTING	TOP AND BOTTOM
D404		120	10'-2"	815	4	3'-0"	4'-4"								FOOTING	STIRRUPS
D905	E	102	12'-2"	4219	8	10'-10"	1'-7"								COLUMNS	VERTICAL - FTG. DOWEL
D906	E	102	18'-4"	6358	1	18'-4"									COLUMNS	VERTICAL
D407	E	14	22'-11"	214	3	3'-10"	7'-4"								COLUMNS	TIES
D408	E	30	14'-3"	286	3	3'-10"	3'-0"								COLUMNS	TIES
D409	E	60	12'-1"	484	14	3'-6"	2'-8"	5"							COLUMNS	TIES
D410	E	4 SERIES OF 13	9'-10" TO 16'-6"	457	3	4'-0"	8" TO 4'-0" BY $3^3/_8$"								COLUMNS	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
D411	E	20	14'-2"	189	1	14'-2"									COLUMNS	VERTICAL
D612	E	8 SERIES OF 4	3'-2" TO 14'-11"	437	1	3'-2" TO 14'-11" BY 3'-11"									COLUMNS	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
D413	E	8	7'-6"	40	1	7'-6"									COLUMNS	TOP
D614	E	10	10'-6"	158	1	10'-6"									CAP	BOTTOM @ ENDS
D915	E	16	15'-6"	843	1	15'-6"									CAP	BOTTOM
D916	E	8	30'-0"	816	9	15'-0"	15'-0"	25.00							CAP	BOTTOM
D617	E	4	3'-6"	21	1	3'-6"									CAP	SIDES
D618	E	4	12'-6"	75	1	12'-6"									CAP	SIDES
D819	E	24	32'-10"	2104	1	32'-10"									CAP	SIDES
D620	E	2	11'-0"	33	1	11'-0"									CAP	SIDES
D1021	E	8	46'-0"	1584	4	1'-9½"	44'-6"								CAP	TOP
D522	E	8 SERIES OF 11	12'-5" TO 14'-7"	1239	3	3'-1" TO 4'-2" BY $1^1/_4$"	2'-9"								CAP	STIRRUPS, BUNDLE AND TAG EACH SERIES SEPARATELY
D523	E	4 SERIES OF 6	12'-7" TO 14'-9"	342	3	3'-2" TO 4'-3" BY $2^5/_8$"	2'-9"								CAP	STIRRUPS, BUNDLE AND TAG EACH SERIES SEPARATELY
D524	E	10	6'-10"	71	17	2'-0"	3'-3"	2'-0"					62.51	75.00	CAP	VERTICAL @ ENDS
D525	E	41	2'-0"	86	1	2'-0"									CAP	VERTICAL DIAPHRAGM DOWEL
D426	E	83	8'-10"	490	4	3'-7"	1'-10"								CAP	VERTICAL GIRDER SEATS
D427	E	3	15'-6"	31	1	15'-6"									CAP	HORIZONTAL GIRDER SEATS
D428	E	3	26'-0"	52	1	26'-0"									CAP	HORIZONTAL GIRDER SEATS
D429	E	3	3'-7"	7	1	3'-7"								75.00	CAP	HORIZONTAL GIRDER SEATS
D430	E	3	26'-0"	52	1	26'-0"									CAP	HORIZONTAL GIRDER SEATS
D431	E	8	32'-6"	174	1	32'-6"									CAP	HORIZONTAL GIRDER SEATS
D532	E	6	5'-8"	35	17	2'-0"	3'-9"	0"							CAP	VERTICAL @ ENDS
D1033		18	50'-2"	3886	2	48'-9"									CAISSONS	VERTICAL - TOP
D634		6	59'-2"	533	1	59'-2"									FOOTING	SIDES
D435	E	56	4'-6"	168	13	4'-6"									COLUMNS	TIES
D1036	E	8	26'-6"	912	4	1'-9½"	25'-0"								CAP	TOP



NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

TOTAL NON-EPOXY REINFORCEMENT WT (LB)	14,520
TOTAL EPOXY REINFORCEMENT WT (LB)	21,980

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

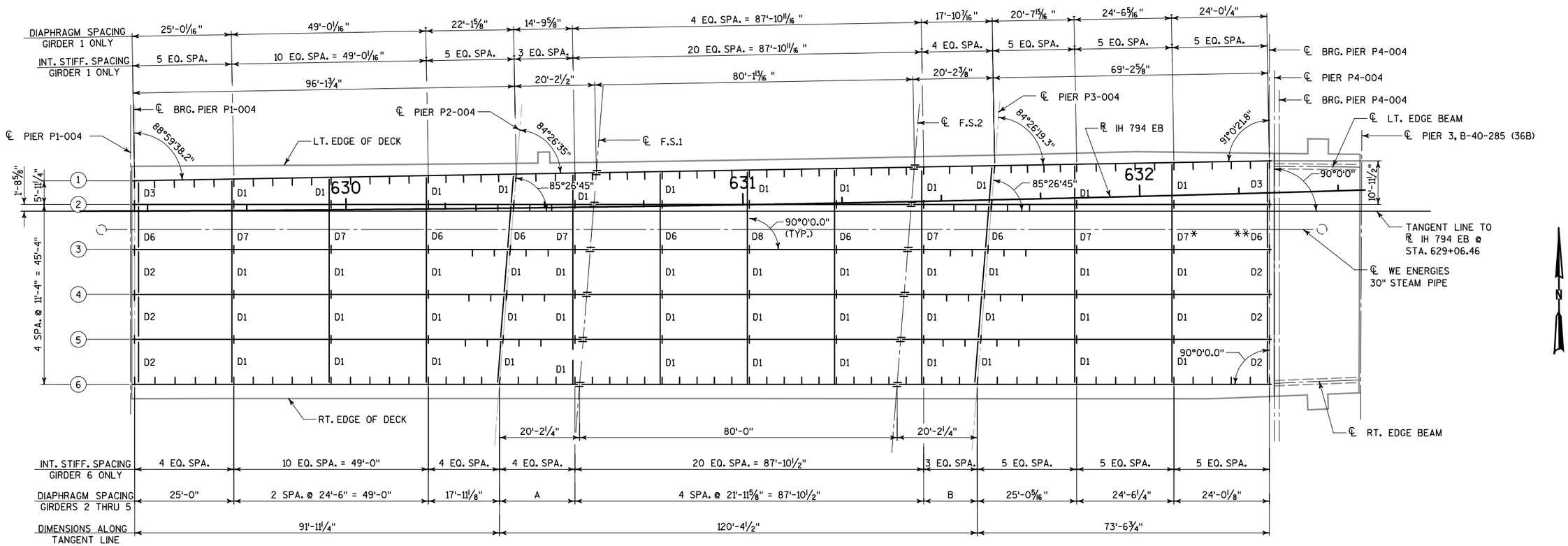
CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P4-004
REINF. SCHEDULE

SHEET 222 OF 396
3090

8

STATE PROJECT NUMBER
1060-05-75



FRAMING PLAN

GIRDER NO.	A	B	X	Y
2	15'-4 11/16"	17'-1 5/16"	4	4
3	16'-3 1/2"	16'-2 1/2"	4	4
4	17'-2 3/8"	15'-3 11/16"	4	4
5	18'-1 5/16"	14'-4 15/16"	4	3
6	19'-0"	13'-6"	4	3

NOTES

1. SEE INTERMEDIATE DIAPHRAGM SHEETS FOR DIAPHRAGM DETAILS.

* ADJUST VERTICAL LOCATION OF DIAPHRAGM 5/16" LOWER AT THIS LOCATION TO ELIMINATE A LOW SPOT IN THE STEAM PIPE PROFILE. SEE INTERMEDIATE DIAPHRAGMS SHEETS FOR DETAILS.

** ADJUST VERTICAL LOCATION OF DIAPHRAGM 1" LOWER AT THIS LOCATION TO ELIMINATE A LOW SPOT IN THE STEAM PIPE PROFILE. SEE INTERMEDIATE DIAPHRAGMS SHEETS FOR DETAILS.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC.	2004	DRAWN BY	RWN	PLANS CK'D.	KES

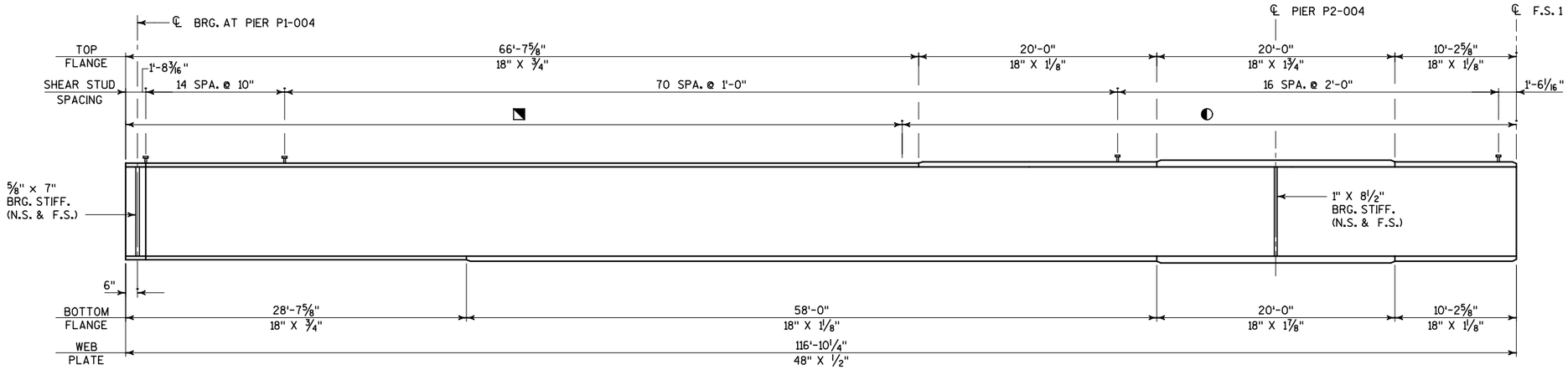
GIRDER FRAMING PLAN

SHEET 223 OF 396

3091

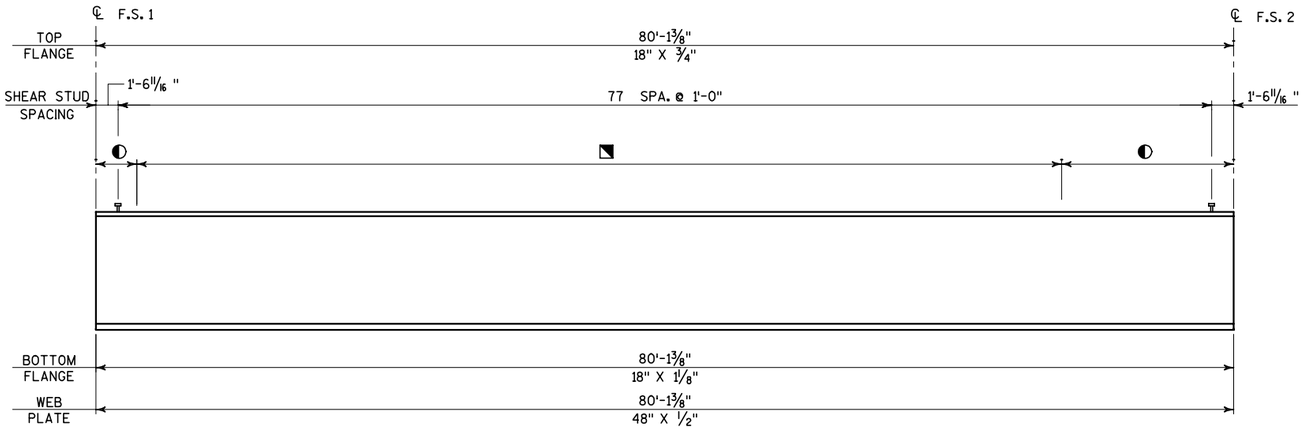
STATE PROJECT NUMBER

1060-05-75



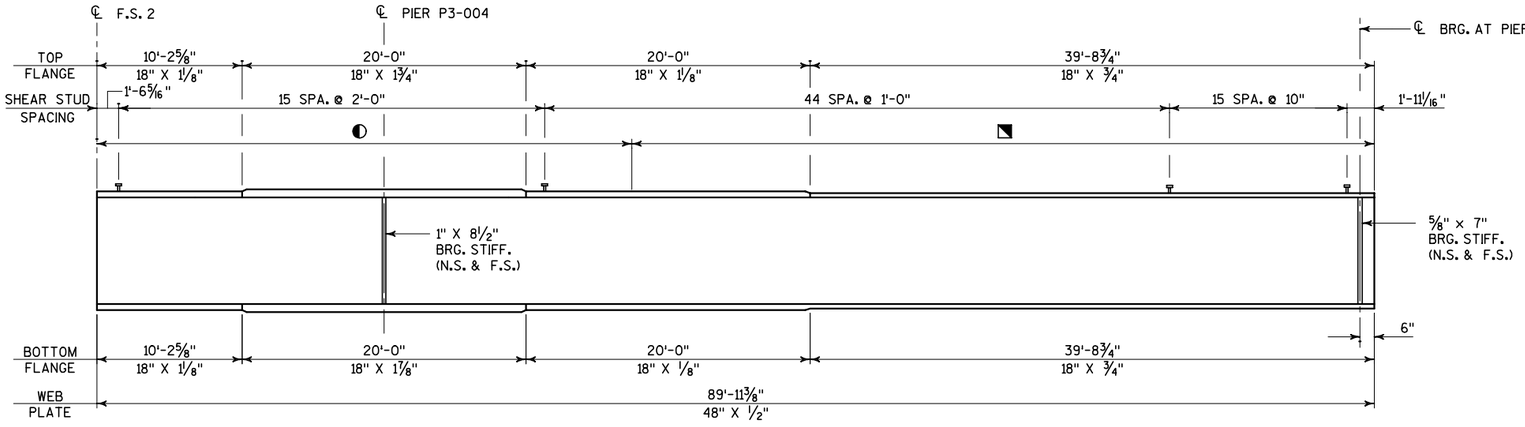
GIRDER ELEVATION

(℄ PIER P1-004 TO ℄ F.S. 1 - GIRDER 1)



GIRDER ELEVATION

(℄ F.S. 1 TO ℄ F.S. 2 - GIRDER 1)



GIRDER ELEVATION

(℄ F.S. 2 TO ℄ PIER P4-004 - GIRDER 1)

NOTES

◥ WELD INTERMEDIATE STIFFENERS ON THE TOP FLANGE IN THIS AREA. FIELD WELDING ON THE BOTTOM FLANGE IS PROHIBITED IN THIS AREA.

◐ WELD INTERMEDIATE STIFFENERS ON THE BOTTOM FLANGE IN THIS AREA. FIELD WELDING ON THE TOP FLANGE FOR ANY PURPOSE IS PROHIBITED IN THIS AREA EXCEPT FOR SHEAR STUD CONNECTIONS.

1. FOR ALL FLANGE AND WEB PLATES OVER 60'-0" LONG. IF USED, THE LOCATION OF THE SPLICE SHALL BE SHOWN ON SHOP DRAWINGS AND WILL BE SUBJECT TO THE APPROVAL OF THE STRUCTURES DESIGN SECTION.
2. OPTIONAL FLANGE BUTT SPLICE. A FLANGE PLATE OF THE LARGER SIZE MAY BE FURNISHED FULL LENGTH, BUT PAY WEIGHT SHALL BE BASED ON SECTIONS AS DETAILED.
3. INTERMEDIATE STIFFENERS ON INTERIOR SIDE OF GIRDER 1 NOT SHOWN. SEE GIRDER FRAMING PLAN FOR SPACING.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC.	2004	DRAWN BY	RWN	PLANS CK'D.	KES

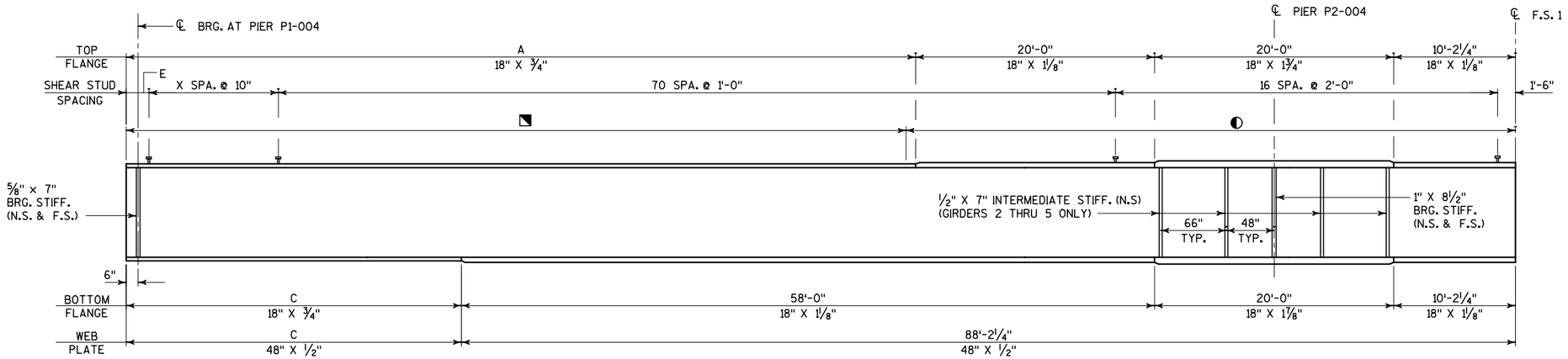
PLATE GIRDER ELEVATION 1

SHEET 224 OF 396

3092

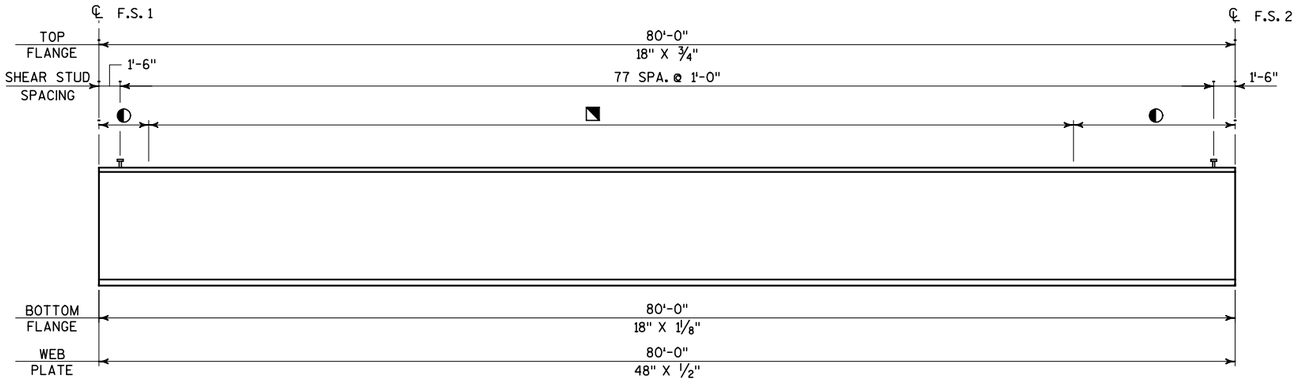
STATE PROJECT NUMBER

1060-05-75



GIRDER ELEVATION

(℄ PIER P1-004 TO ℄ F.S. 1 - GIRDERS 2 THRU 6)



GIRDER ELEVATION

(℄ F.S. 1 TO ℄ F.S. 2 - GIRDERS 2 THRU 6)

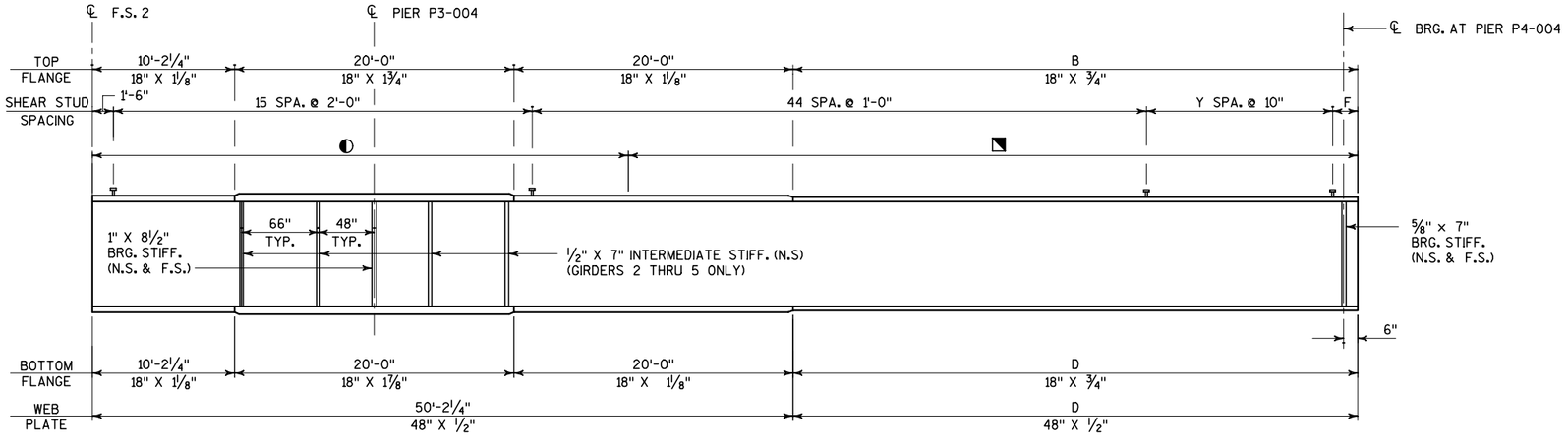
GIRDER NO.	A	B	C	D	E	F	X	Y
2	66'-0½"	40'-5½"	28'-0½"	40'-5½"	1'-10¾"	1'-9¾"	13	16
3	65'-1¾"	41'-4¼"	27'-1¾"	41'-4¼"	1'-10"	1'-10½"	12	17
4	64'-2 15/16"	42'-3 1/16"	26'-2 15/16"	42'-3 1/16"	1'-9⅛"	1'-11 15/16"	11	18
5	63'-4 1/16"	43'-1 15/16"	25'-4 1/16"	43'-1 15/16"	1'-8 5/16"	2'-0⅛"	10	19
6	62'-5¼"	44'-0¾"	24'-5¼"	44'-0¾"	1'-6½"	2'-1"	9	20

NOTES

◪ WELD INTERMEDIATE STIFFENERS ON THE TOP FLANGE IN THIS AREA. FIELD WELDING ON THE BOTTOM FLANGE IS PROHIBITED IN THIS AREA.

◐ WELD INTERMEDIATE STIFFENERS ON THE BOTTOM FLANGE IN THIS AREA. FIELD WELDING ON THE TOP FLANGE FOR ANY PURPOSE IS PROHIBITED IN THIS AREA EXCEPT FOR SHEAR STUD CONNECTIONS.

1. FOR ALL FLANGE AND WEB PLATES OVER 60'-0" LONG. IF USED, THE LOCATION OF THE SPLICE SHALL BE SHOWN ON SHOP DRAWINGS AND WILL BE SUBJECT TO THE APPROVAL OF THE STRUCTURES DESIGN SECTION.
2. OPTIONAL FLANGE BUTT SPLICE. A FLANGE PLATE OF THE LARGER SIZE MAY BE FURNISHED FULL LENGTH, BUT PAY WEIGHT SHALL BE BASED ON SECTIONS AS DETAILED.
3. INTERMEDIATE STIFFENERS ON INTERIOR SIDE OF GIRDER 6 NOT SHOWN. SEE GIRDER FRAMING PLAN FOR SPACING.



GIRDER ELEVATION

(℄ F.S. 2 TO ℄ PIER P4-004 - GIRDERS 2 THRU 6)

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	RWN	KES

PLATE GIRDER ELEVATION 2

SHEET 225 OF 396

3093

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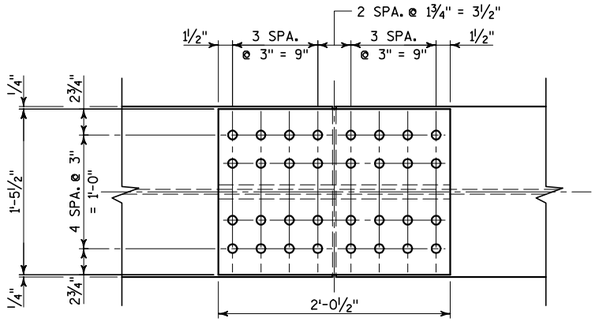
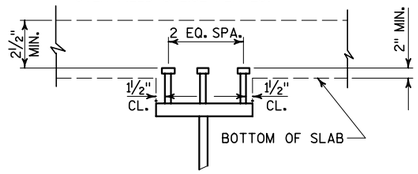


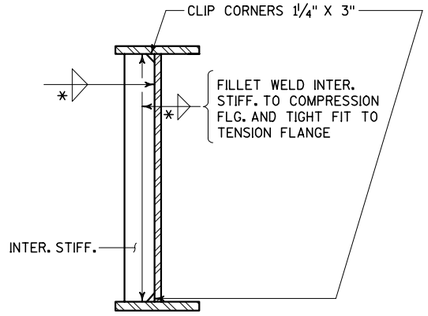
TOP FLANGE

NOTE: USE THREE FIELD WELDED ⅞" DIA. X 7" LONG ⊖ STUDS EQUALLY SPACED WITH A MIN. OF 1½" CL. FROM THE FLANGE EDGE. STUDS SHALL NOT BE PLACED OVER FIELD SPLICE PLATES.



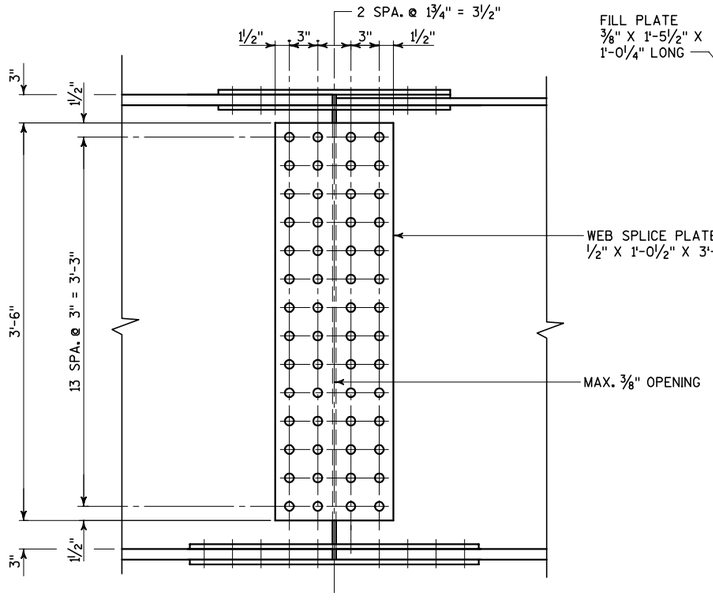
⊖ USE DIFFERENT LENGTH STUDS IF 2" MIN. CLEARANCE OR EXTENSION CRITERIA IS VIOLATED.

SHEAR CONN. DETAILS

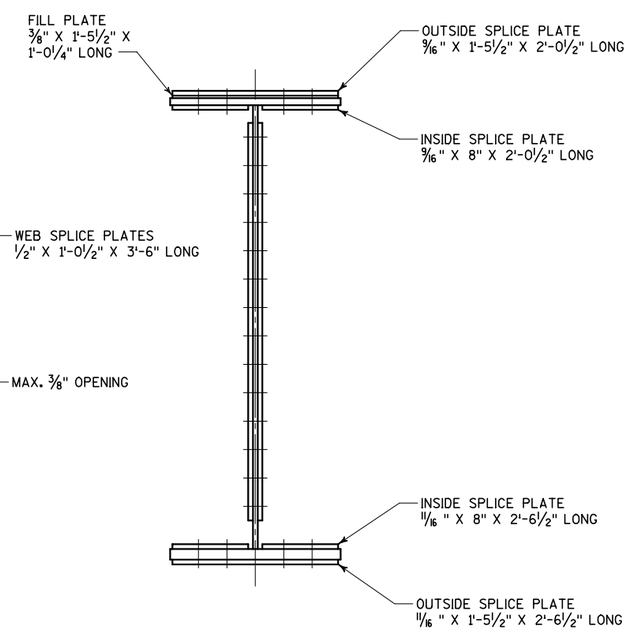


INTERMEDIATE STIFFENER DETAILS

(ALL GIRDERS)



WEB

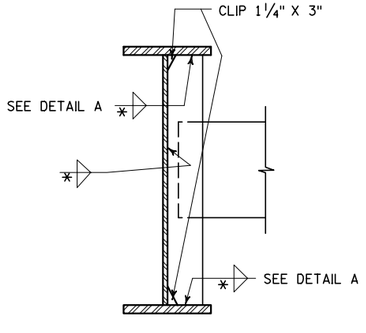


FIELD SPLICE 1 & 2 SECTION

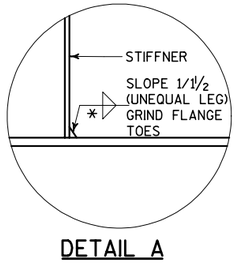
ALL BOLTS ⅞" ϕ A325 H.S. BOLTS
ALL BOLT HOLES STD. SIZE (15/16 " ϕ)

BOTTOM FLANGE

FIELD SPLICE 1 & 2 DETAIL



CONNECTION STIFF. DETAILS



DETAIL A

CONNECTION STIFFNER
DETAIL @ TENSION FLANGE

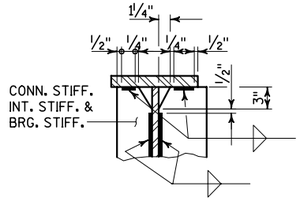
BRG. STIFF. DETAILS TYP. AT PIERS

* TABLE OF FILLET WELD SIZES

MATERIAL THICKNESS OF THICKER PART JOINED.	ǂ MIN. SIZE OF FILLET WELD
TO ½" INCLUSIVE	3/16"
OVER ½" TO ¾"	¼"
OVER ¾" TO 1½"	△ 5/16"
OVER 1½" TO 2¼"	△ ⅜"
OVER 2¼" TO 6"	△ ½"

ǂ EXCEPT THAT THE WELD SIZE SHALL NOT EXCEED THE THICKNESS OF THE THINNER PART JOINED.

△ MIN. PASS SIZE IS 5/16"



STIFF & CONN. STIFF. TO WEB/FLANGE CONN. WELDS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC. 2004	DRAWN BY RWN	PLANS CK'D. KES

PLATE GIRDER DETAILS

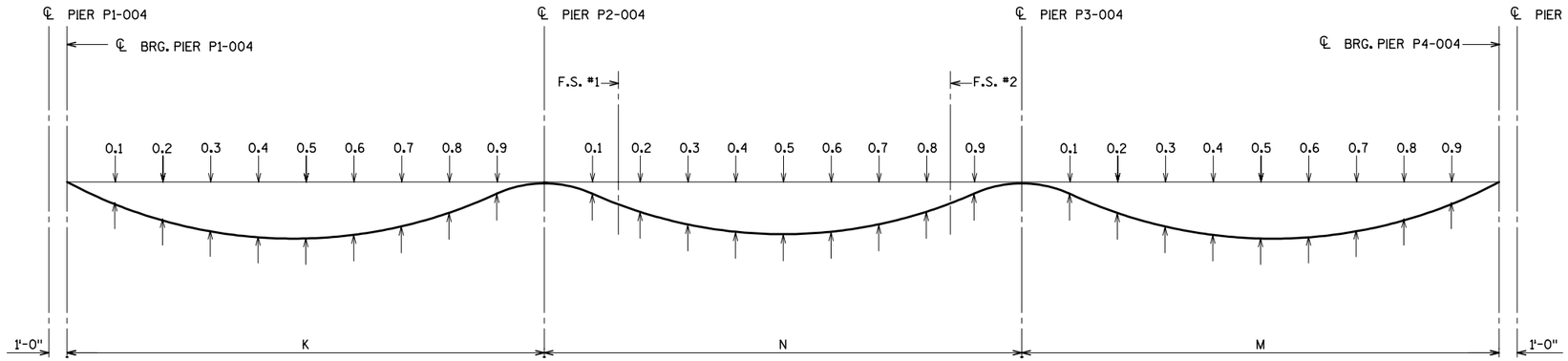
SHEET 226 OF 396

3094

8

STATE PROJECT NUMBER

1060-05-75



SPAN DIMENSIONS

	K	N	M
GIRDER 1	97'-1½"	120'-6½"	70'-2½"
GIRDER 2	96'-6⅝"	120'-4½"	70'-11⅜"
GIRDER 3	94'-7¾"	120'-4½"	70'-10¼"
GIRDER 4	94'-8⅝"	120'-4½"	71'-9/16"
GIRDER 5	93'-10/16"	120'-4½"	72'-7⅝"
GIRDER 6	91'-11¼"	120'-4½"	73'-6¾"

DEAD LOAD DEFLECTION DIAGRAM

DEAD LOAD DEFLECTIONS (FEET)

	SPAN POINT	℄ BRG. PIER P1-004	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	PIER P2-004	0.1	F.S.#1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	F.S.#2	0.9	℄ PIER P3-004
GIRDER 1 THRU 6	CONC. DEFL.	0.000	0.036	0.065	0.082	0.087	0.080	0.063	0.040	0.018	0.002	0.000	0.018	0.039	0.051	0.088	0.116	0.126	0.114	0.085	0.046	0.036	0.013	0.000
	TOTAL DEFL.	0.000	0.048	0.087	0.110	0.117	0.107	0.084	0.054	0.024	0.003	0.000	0.026	0.054	0.072	0.124	0.162	0.174	0.159	0.118	0.065	0.050	0.018	0.000

	SPAN POINT	℄ PIER P3-004	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	℄ BRG. PIER P4-004
GIRDER 1 THRU 6	CONC. DEFL.	0.000	0.003	0.010	0.019	0.028	0.036	0.039	0.036	0.028	0.016	0.000
	TOTAL DEFL.	0.000	0.004	0.014	0.026	0.039	0.049	0.053	0.050	0.039	0.021	0.000

DEFLECTION NOTES

DEFLECTIONS ARE GIVEN IN DECIMALS OF A FOOT.

NEGATIVE VALUE INDICATES UPWARD DEFLECTION.

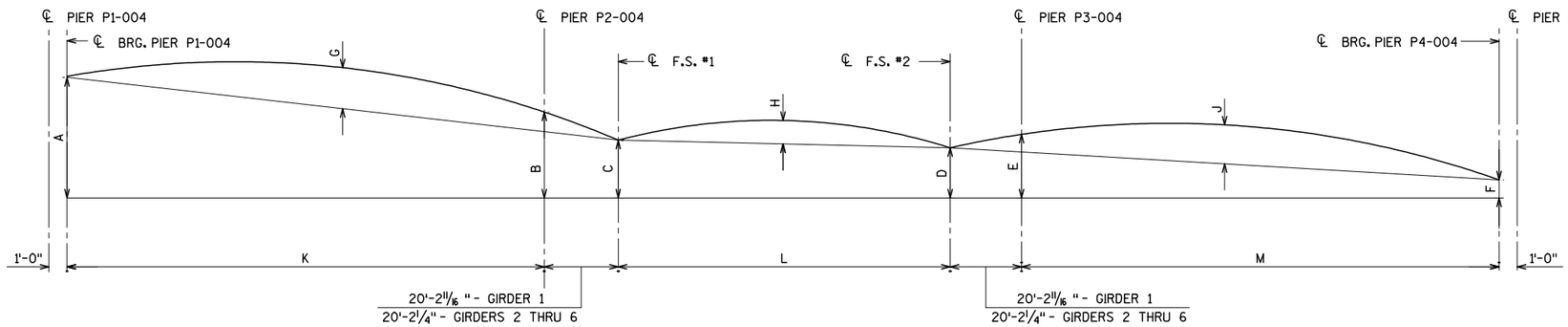
CONCRETE DEFLECTION INCLUDES CONCRETE SLAB, HAUNCH BARRIERS & WEARING SURFACE.

TOTAL DEFLECTION INCLUDES ALL OF ABOVE DEFLECTIONS DUE TO SELF WEIGHT OF STEEL.

TOP OF ERECTED STEEL

	PIER P1-004	PIER P2-004	F.S. #1	F.S. #2	PIER P3-004	PIER P4-004
GIRDER 1	613.46	611.68	611.23	610.26	610.34	609.98
GIRDER 2	613.58	611.84	611.40	610.45	610.53	610.12
GIRDER 3	613.81	612.08	611.64	610.68	610.76	610.39
GIRDER 4	614.03	612.32	611.88	610.92	611.00	610.56
GIRDER 5	613.92	612.20	611.76	610.73	610.81	610.33
GIRDER 6	613.69	611.99	611.54	610.51	610.59	610.10

THESE ELEVATIONS ARE TO TOP OF STEEL (SPLICE AND COVER PLATE THICKNESS, IF APPLICABLE, ARE ACCOUNTED FOR) AND THEY ARE FOR THE MATERIAL AS ERECTED. THE ELEVATION OF THE TOP STEEL AT THE FIELD SPLICE POINTS SHALL BE CHECKED, AND CORRECTED, IF POSSIBLE, AFTER ERECTION AND BEFORE PERMANENTLY BOLTING THE DIAPHRAGMS IN PLACE.



CAMBER & BLOCKING DIAGRAM, GIRDERS 1 THRU 6

CAMBER & BLOCKING DIMENSIONS

	A	B	C	D	E	F	G	H	J	K	L	M
GIRDER 1	3'-5¾"	1'-7 1/16"	1'-2"	2 5/16"	3⅜"	0	1 5/16"	1 1/16"	1½"	97'-1½"	80'-1¼'	70'-2½'
GIRDER 2	3'-7⅜"	1'-9 5/16"	1'-4 1/16"	4⅝"	5⅝"	1 11/16"	1 5/16"	1 3/16"	1½"	96'-6⅝"	80'-0"	70'-11⅜"
GIRDER 3	3'-10"	2'-0 5/16"	1'-6 5/16"	7 1/16"	8 1/16"	4 15/16"	1 5/16"	1 3/16"	1½"	94'-7¾'	80'-0"	70'-10¼"
GIRDER 4	4'-0⅝"	2'-3 3/16"	1'-9 13/16"	10¼"	11¼"	6 15/16"	1 5/16"	1 3/16"	1½"	94'-8 15/16"	80'-0"	71'-9 1/16"
GIRDER 5	3'-11 5/16"	2'-1¾"	1'-8 5/16"	8"	9"	4 3/16"	1 5/16"	1 3/16"	1½"	93'-10 1/16"	80'-0"	72'-7 5/16"
GIRDER 6	3'-8½"	1'-11 5/16"	1'-5¾"	5 5/16"	6 5/16"	1 1/16"	1 5/16"	1 3/16"	1½"	91'-11¼"	80'-0"	73'-6¾"

DIMENSIONS G, H, AND J PROVIDED AT MID-POINT OF FABRICATED GIRDER SEGMENT.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

CAMBER, BLOCKING & DEFLECTIONS

SHEET 227 OF 396

3095

8

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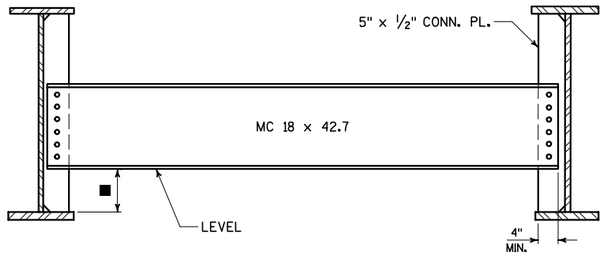
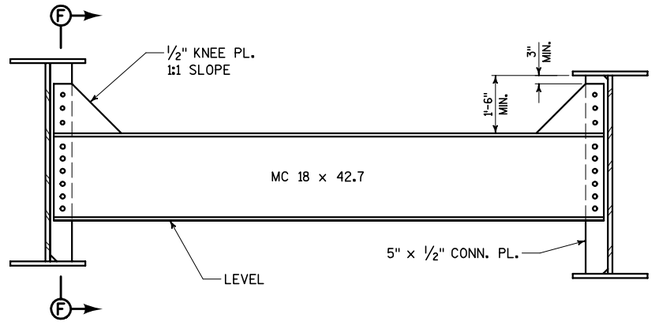
STATE PROJECT NUMBER
1060-05-75

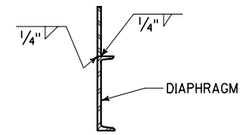


■ 8" MIN., 14" MAX.

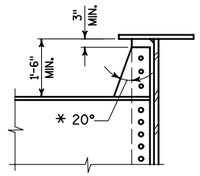
DIAPHRAGM DETAIL D1



DIAPHRAGM DETAIL D2

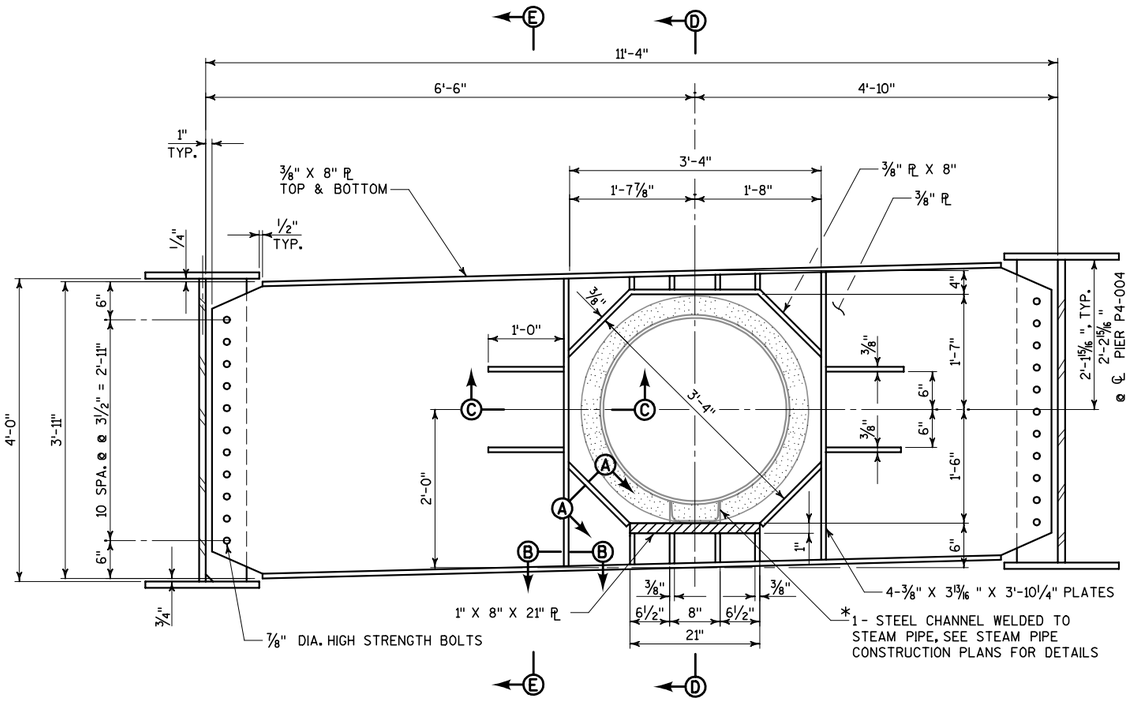


SECTION F-F



*MODIFY DIAPHRAGM DETAIL D2 KNEE PL SLOPE @ CONNECTION TO GIRDER 2 ONLY.

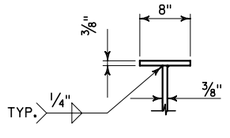
DIAPHRAGM DETAIL D3



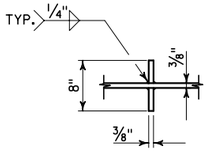
STEAM PIPE SUPPORT DIAPHRAGM D6

(LOOKING EAST)

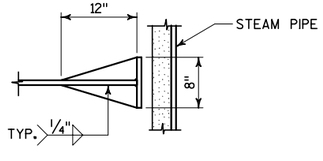
* STEAM PIPE, PIPE INSULATION AND STEEL CHANNELS TO BE SUPPLIED BY UTILITY AND INSTALLED AS PART OF THIS CONTRACT



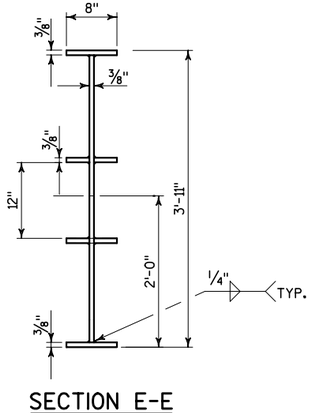
SECTION A-A



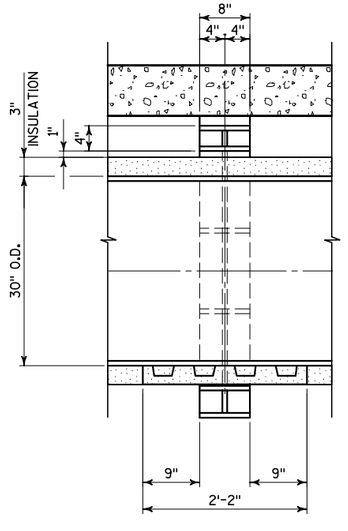
SECTION B-B



SECTION C-C



SECTION E-E



SECTION D-D

(LOOKING NORTH)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC. 2004	DRAWN BY DJS	PLANS CK'D. KES

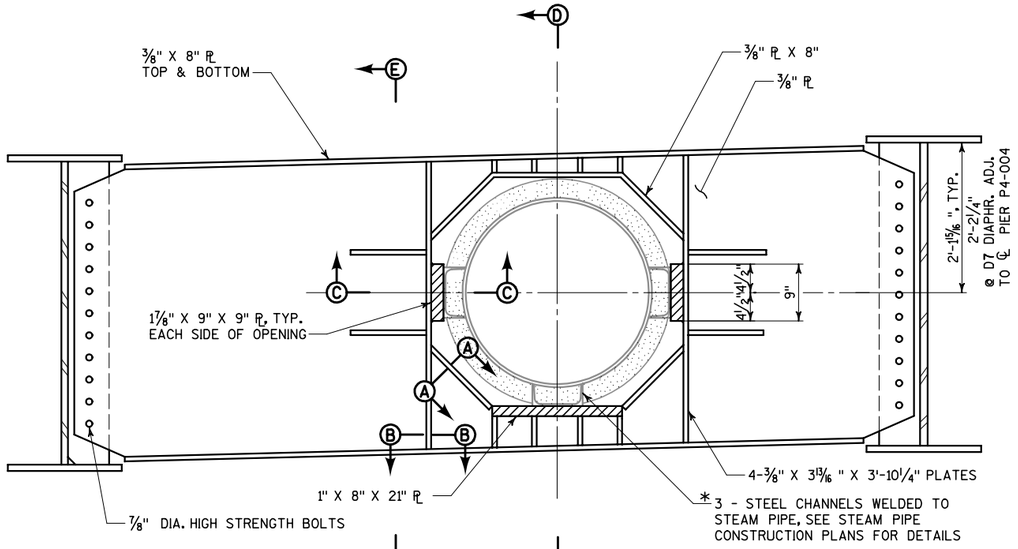
INTERMEDIATE DIAPHRAGMS 1

SHEET 228 OF 396

3096

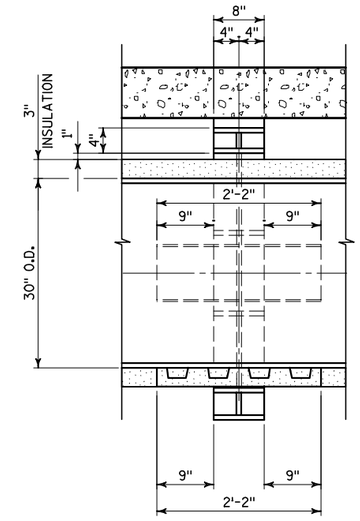
8

STATE PROJECT NUMBER
1060-05-75



STEAM PIPE GUIDE DIAPHRAGM D7

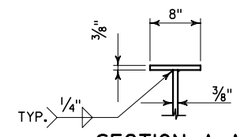
(LOOKING EAST - SEE DIAPHRAGM D6 FOR DIMENSIONS)



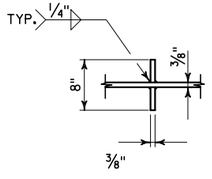
SECTION D-D

(LOOKING NORTH)

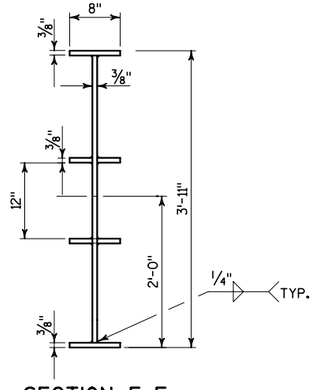
* STEAM PIPE, PIPE INSULATION AND STEEL CHANNELS TO BE SUPPLIED BY UTILITY AND INSTALLED AS PART OF THIS CONTRACT



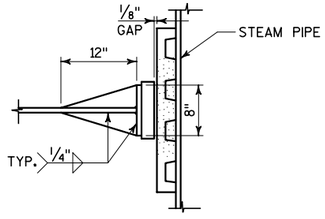
SECTION A-A



SECTION B-B



SECTION E-E



SECTION C-C

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC.	2004	DRAWN BY	DJS	PLANS CK'D.	KES

INTERMEDIATE DIAPHRAGMS 2

SHEET 229 OF 396

3097

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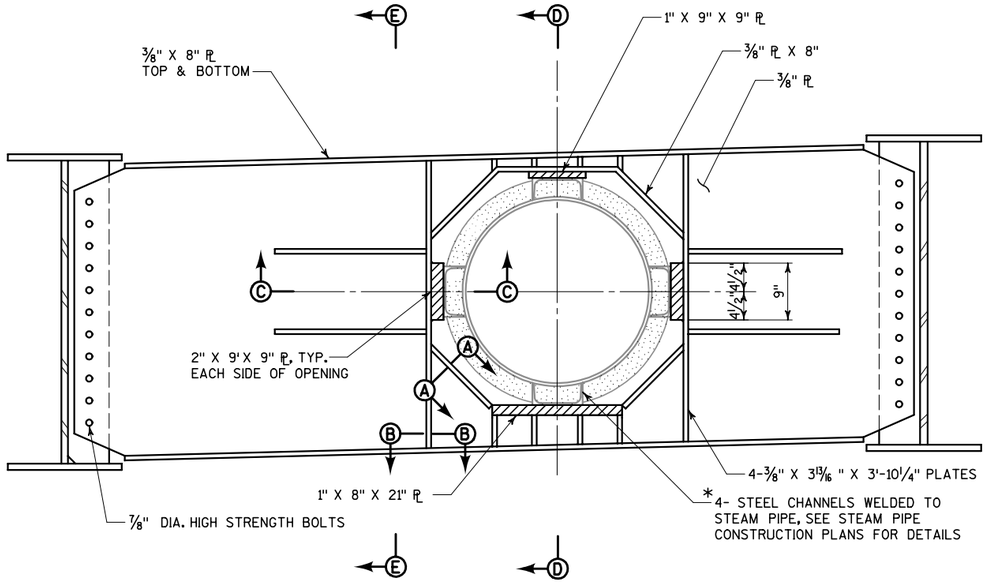
STATE PROJECT NUMBER

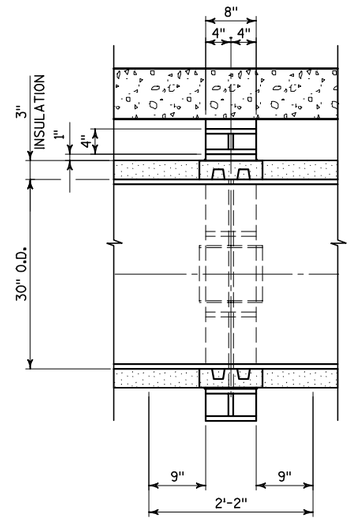
1060-05-75



STEAM PIPE ANCHOR DIAPHRAGM D8

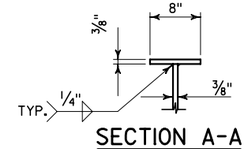
(LOOKING EAST - SEE DIAPHRAGM D6 FOR DIMENSIONS)

* STEAM PIPE, PIPE INSULATION AND STEEL CHANNELS TO BE SUPPLIED BY UTILITY AND INSTALLED AS PART OF THIS CONTRACT



SECTION D-D

(LOOKING NORTH)



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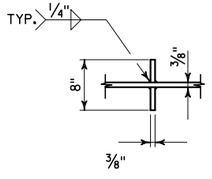

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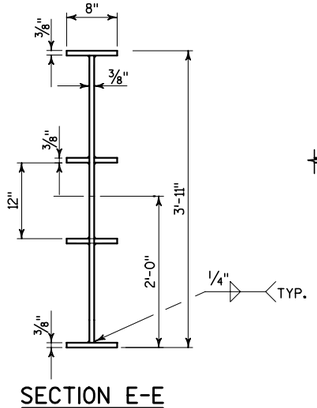

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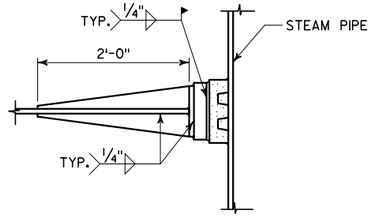

SECTION C-C

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	DJS	KES

INTERMEDIATE DIAPHRAGMS 3

SHEET 230 OF 396

3098

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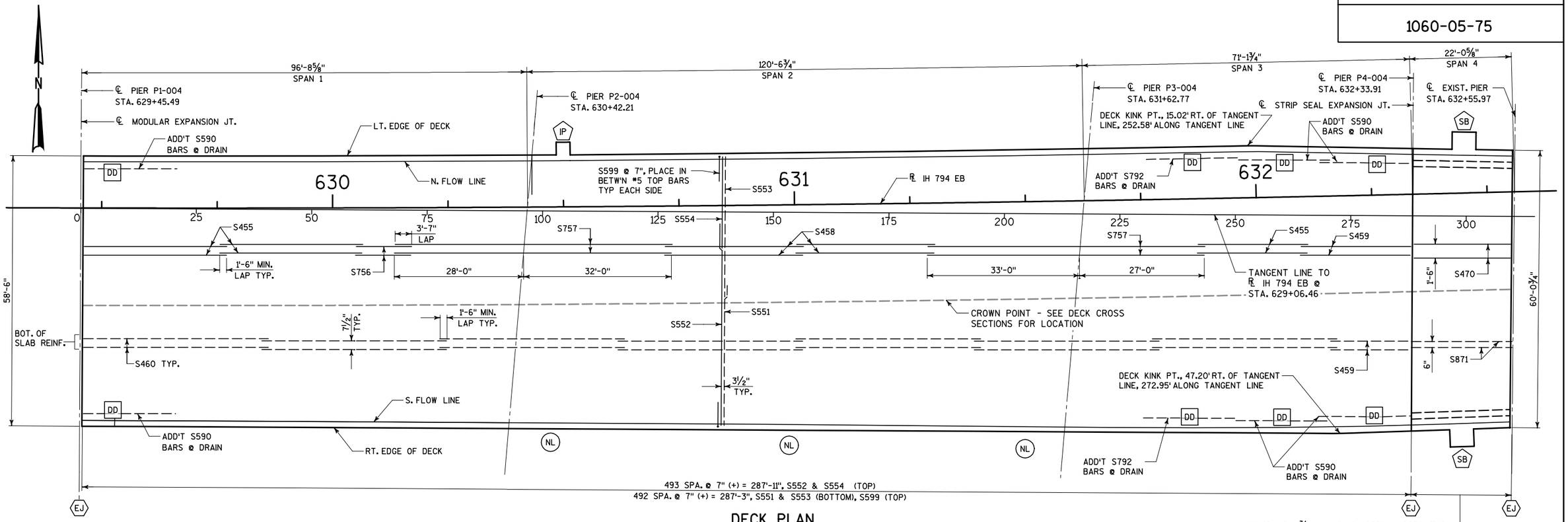
STATE PROJECT NUMBER

1060-05-75



DECK PLAN

DECK EDGE DIMENSIONS GIVEN FROM TANGENT LINE TO ℄ IH 794 EB @ STA. 692+09.46					
◐ DISTANCE ALONG TANGENT LINE	LEFT EDGE	RIGHT EDGE	DISTANCE ALONG TANGENT LINE	LEFT EDGE	RIGHT EDGE
0.0'	11'-3 13/16"	47'-2 3/16"	200.0'	13'-8 5/16"	47'-2 3/16"
25.0'	11'-5 3/16"	47'-1 13/16"	225.0'	14'-3 3/16"	47'-2 3/16"
50.0'	11'-7 3/16"	47'-1 7/8"	250.0'	14'-10 3/4"	47'-2 5/16"
75.0'	11'-9 13/16"	47'-1 7/8"	275.0'	14'-8 5/16"	47'-1 7/16"
100.0'	12'-1 1/8"	47'-2"	300.0	14'-5 3/16"	46'-1 1/2"
125.0'	12'-5 1/8"	47'-2 1/16"	309.72'	——	45'-8 11/16"
150.0'	12'-9 3/4"	47'-2 1/16"	309.97'	14'-3 7/8"	——
175.0'	13'-3"	47'-2 1/8"			

◐ 0.0' DISTANCE ALONG TANGENT LINE = PIER P1-004, STA. 692+45.49

DECK FEATURE SUMMARY			
STATION	FEATURE	SIDE	DETAIL SHEETS
629+45.49	EXPANSION JOINT		365-368
629+52.50	DECK DRAIN - TYPE B	RIGHT	371-372
629+52.30	DECK DRAIN - TYPE B	LEFT	371-372
630+48.00	NAVIGATIONAL LIGHT	RIGHT	------
630+50.00	ITS POLE	LEFT	373-376
630+99.00	NAVIGATIONAL LIGHT	RIGHT	------
631+50.00	NAVIGATIONAL LIGHT	RIGHT	------
631+91.00	DECK DRAIN - TYPE B	LEFT	371-372
631+91.00	DECK DRAIN - TYPE B	RIGHT	371-372
632+11.00	DECK DRAIN - TYPE B	LEFT	371-372
632+11.00	DECK DRAIN - TYPE B	RIGHT	371-372
632+31.00	DECK DRAIN - TYPE B	LEFT	371-372
632+31.00	DECK DRAIN - TYPE B	RIGHT	371-372
632+33.91	EXPANSION JOINT		360-364
632+44.65	SIGN BRIDGE	LEFT	377-380
632+44.65	SIGN BRIDGE	RIGHT	377-380
632+55.92	EXPANSION JOINT		360-364

TOP OF DECK ELEVATIONS (GIVEN @ TOP OF OVERLAY)

(GIVEN AT TOP OF DECK FOR SPAN 4)

	℄ PIER P1-004	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P2-004	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P3-004
N. FLOW LINE	614.79	614.56	614.33	614.11	613.91	613.70	613.51	613.32	613.14	612.97	612.81	612.62	612.44	612.27	612.11	611.97	611.84	611.72	611.61	611.51	611.42
GIRDER 1	614.83	614.60	614.37	614.15	613.94	613.74	613.55	613.36	613.18	613.01	612.85	612.66	612.47	612.31	612.15	612.01	611.87	611.75	611.64	611.55	611.46
GIRDER 2	614.95	614.72	614.50	614.29	614.08	613.88	613.69	613.51	613.33	613.17	613.01	612.82	612.64	612.47	612.32	612.18	612.05	611.93	611.83	611.73	611.65
GIRDER 3	615.18	614.95	614.73	614.52	614.32	614.12	613.93	613.75	613.57	613.41	613.25	613.06	612.88	612.72	612.56	612.42	612.29	612.17	612.06	611.97	611.89
GIRDER 4	615.40	615.18	614.96	614.75	614.55	614.36	614.17	613.99	613.82	613.65	613.49	613.30	613.12	612.96	612.80	612.66	612.53	612.41	612.30	612.20	612.12
CROWN	615.47	615.25	615.03	614.82	614.61	614.42	614.23	614.04	613.87	613.70	613.54	613.35	613.16	612.99	612.84	612.69	612.55	612.43	612.32	612.21	612.13
GIRDER 5	615.29	615.07	614.85	614.64	614.44	614.25	614.06	613.88	613.70	613.53	613.37	613.18	612.99	612.82	612.65	612.50	612.36	612.23	612.11	612.01	611.91
GIRDER 6	615.06	614.84	614.63	614.42	614.22	614.03	613.84	613.66	613.49	613.32	613.16	612.97	612.78	612.60	612.44	612.29	612.15	612.02	611.90	611.79	611.69
S. FLOW LINE	615.03	614.81	614.60	614.39	614.19	613.99	613.81	613.62	613.45	613.28	613.12	612.92	612.74	612.56	612.40	612.24	612.10	611.97	611.85	611.75	611.65

	℄ PIER P3-004	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P4-004	0.5 PT	℄ EXIST. PIER
N. FLOW LINE	611.42	611.38	611.34	611.31	611.29	611.27	611.27	611.27	611.28	611.30	611.33	611.37	611.45
GIRDER 1	611.46	611.42	611.38	611.35	611.33	611.31	611.31	611.31	611.31	611.33	611.34	611.41	611.46
GIRDER 2	611.65	611.61	611.57	611.55	611.53	611.51	611.51	611.51	611.52	611.53	611.56		
GIRDER 3	611.89	611.84	611.81	611.78	611.75	611.74	611.73	611.73	611.74	611.76	611.78		
CROWN ✳✳			612.04	612.00	611.97	611.96	611.94	611.94	611.94	611.96	611.98	612.02	612.08
GIRDER 4	612.12	612.08	612.03	611.99	611.96	611.94	611.93	611.92	611.92	611.93	611.94		
CROWN ✳✳	612.13	612.08											
GIRDER 5	611.91	611.86	611.81	611.77	611.74	611.72	611.70	611.69	611.69	611.70	611.71		
GIRDER 6	611.69	611.64	611.59	611.55	611.52	611.49	611.48	611.47	611.47	611.47	611.49	611.53	611.60
S. FLOW LINE	611.65	611.59	611.55	611.51	611.47	611.45	611.43	611.42	611.42	611.43	611.45	611.50	611.56

✳✳ CROWN LINE CROSSES OVER ℄ GIRDER 4 BETWEEN THE 0.1 PT AND THE 0.2 PT OF SPAN 3 @ STA. 631+70.56

LEGEND

- (EJ) EXPANSION JOINT LOCATION.
- [DD] DECK DRAIN LOCATION.✳
- (IP) ITS POLE MOUNTING LOCATION.✳
- [SB] SIGN BRIDGE MOUNTING LOCATION.✳
- (NL) NAVIGATIONAL LIGHT MOUNTING LOCATION.

✳ SEE DETAIL SHEETS FOR ADDITIONAL DECK REINFORCEMENT REQUIRED IN THIS AREA.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	DJS	KES

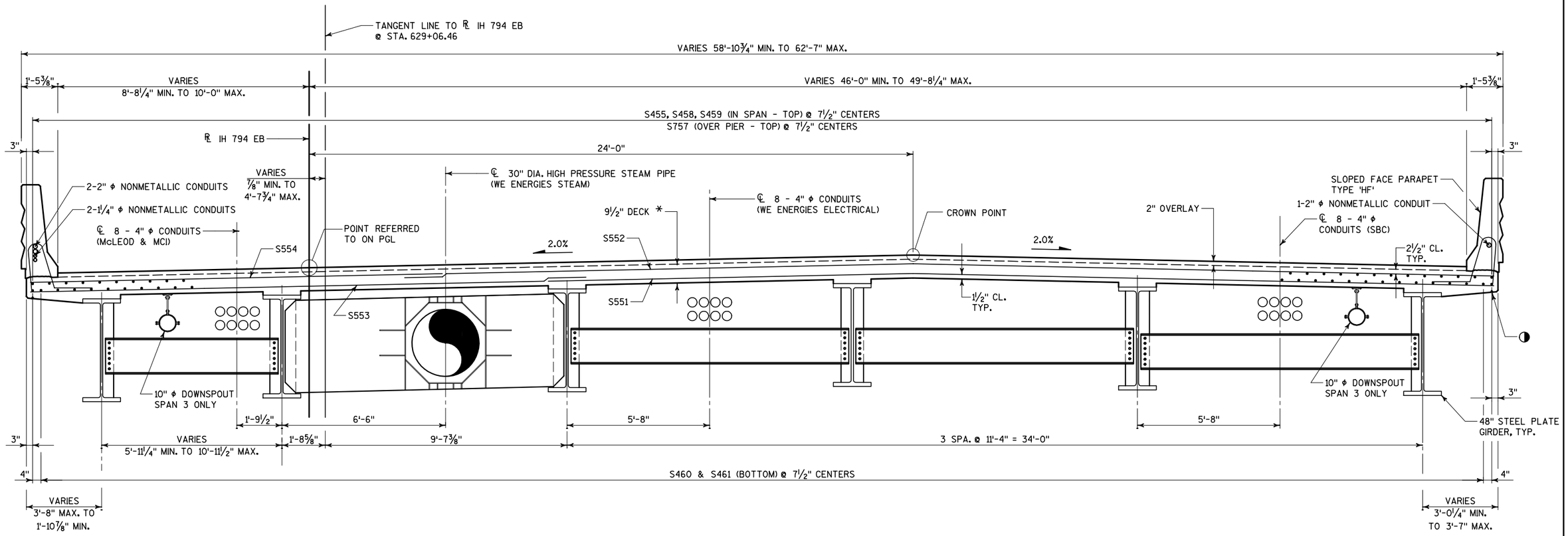
DECK PLAN / REINFORCEMENT

SHEET 231 OF 396

3099

8

STATE PROJECT NUMBER
1060-05-75



TYPICAL SECTION

(STEEL PLATE GIRDER)

NOTES

* THE CONTRACTOR HAS THE OPTION TO USE PRECAST CONCRETE DECK PANELS INSTEAD OF TRADITIONAL FORMING METHODS. SEE SHEET 353 AND SPECIAL PROVISIONS FOR DETAILS.

◑ ¾" CONTINUOUS DRIP GROOVE TO END 2'-0" AWAY FROM FACE OF DIAPHRAGM. TYP. EACH SIDE OF DECK.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

DECK CROSS SECTION STEEL PLATE GIRDER

SHEET 232 OF 396

3100

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STATE PROJECT NUMBER
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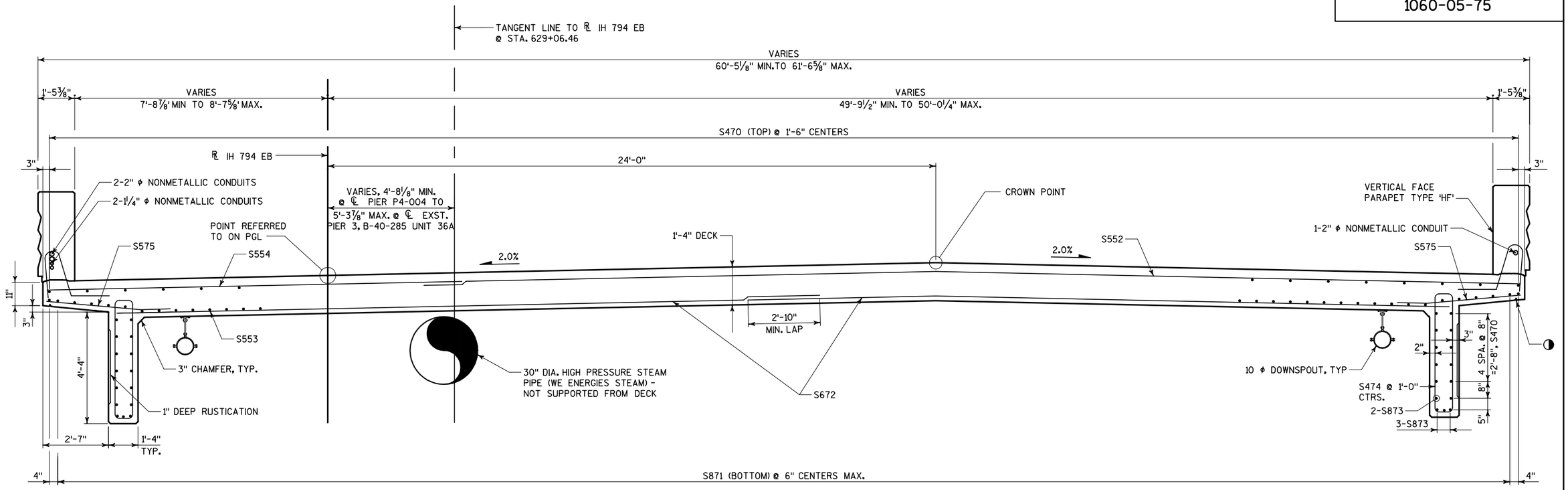
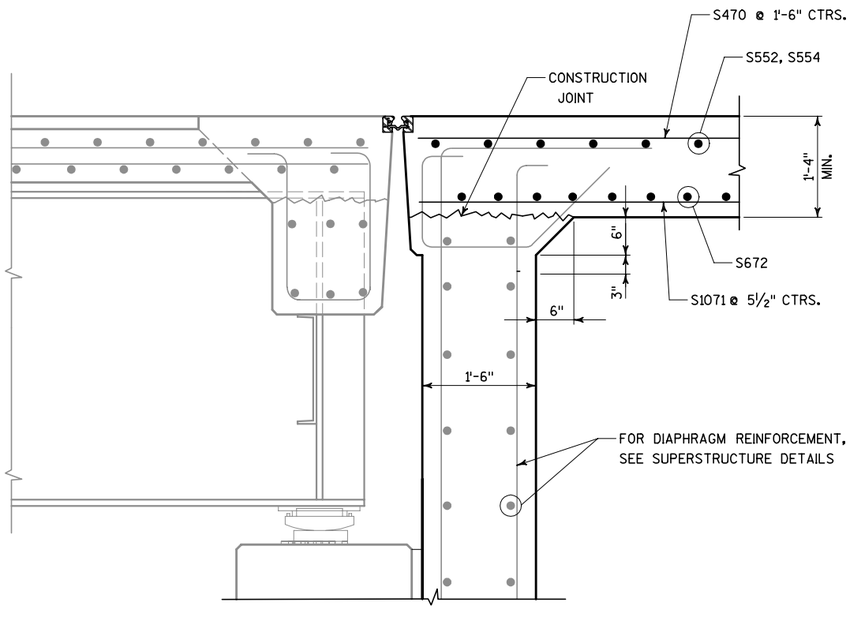


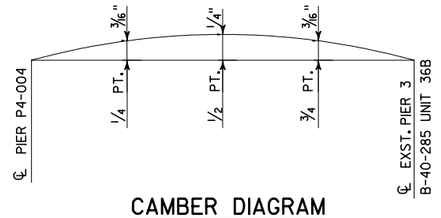
TYPICAL SECTION

(CONCRETE SLAB)



PART. SECTION AT DIAPHRAGM

(PIER P4-004 SHOWN, EXST. PIER 3 OF B-40-285 UNIT 36B SIMILAR)



CAMBER DIAGRAM

CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM OR FALSEWORK DEFLECTIONS.

NOTES

1. TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY. BOTTOM LONGIT. BARS SHALL BE SUPPORTED BY CONTINUOUS CHAIRS AT APPROXIMATELY 4'-0" CENTERS.
2. ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).
3. PARAPETS AND SIGN BRIDGE BASE SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED EXCEPT FOR STAGE CONSTRUCTION.

◑ ¾" CONTINUOUS DRIP GROOVE TO END 2'-0" AWAY FROM FACE OF DIAPHRAGM. TYP. EACH SIDE OF SLAB.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

DECK CROSS SECTION CONCRETE SLAB

SHEET 233 OF 396

3101

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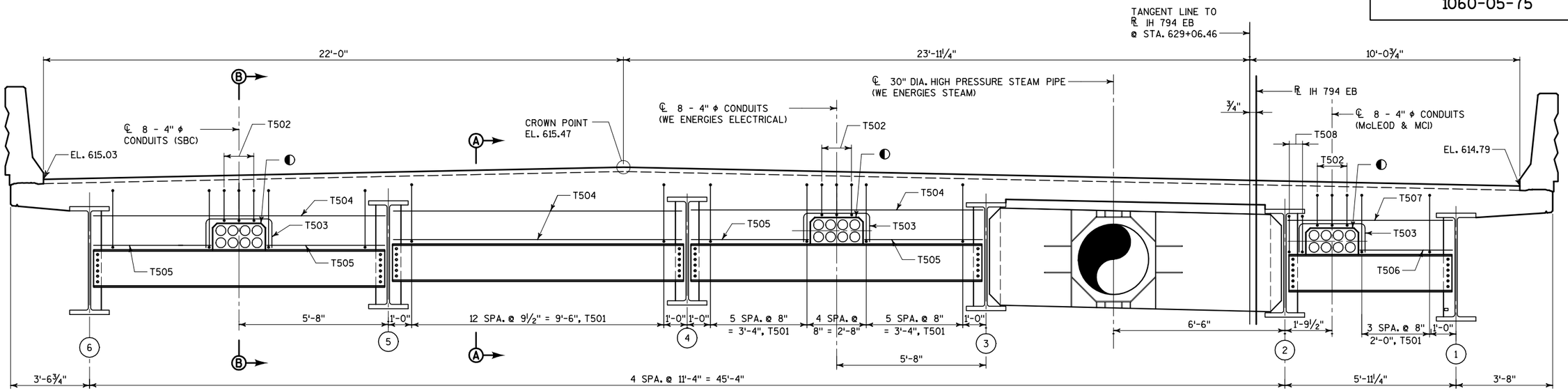
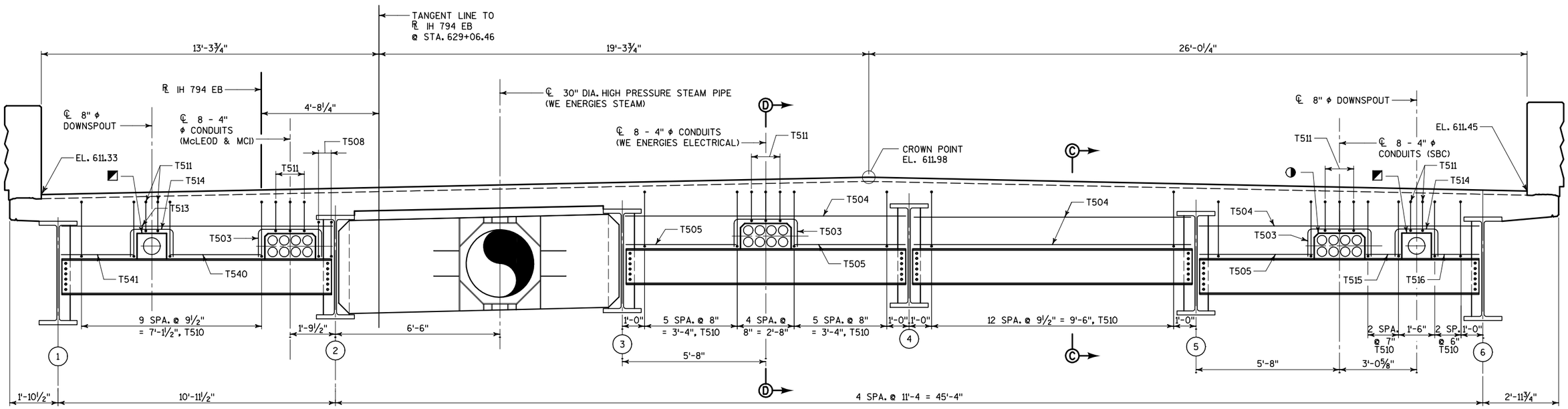
STATE PROJECT NUMBER
1060-05-75



ELEVATION VIEW AT PIER P1-004

(LOOKING WEST - DIMENSIONS & ELEVATIONS GIVEN ALONG ℄ PIER P1-004)



ELEVATION VIEW AT PIER P4-004

(LOOKING EAST - DIMENSIONS & ELEVATIONS GIVEN ALONG ℄ PIER P4-004)

LEGEND

◥ 1'-2" WIDE X 1'-4" HIGH BLOCKOUT FOR 10" ϕ DOWNSPOUT.

◐ 2'-2" WIDE X 1'-4" HIGH BLOCKOUT FOR UTILITY CONDUITS. COORDINATE END DIAPHRAGM VERTICAL ELEVATION WITH UTILITIES.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC.	2004	DRAWN BY	KES	PLANS CK'D.	KES

SUPERSTRUCTURE DETAILS 1

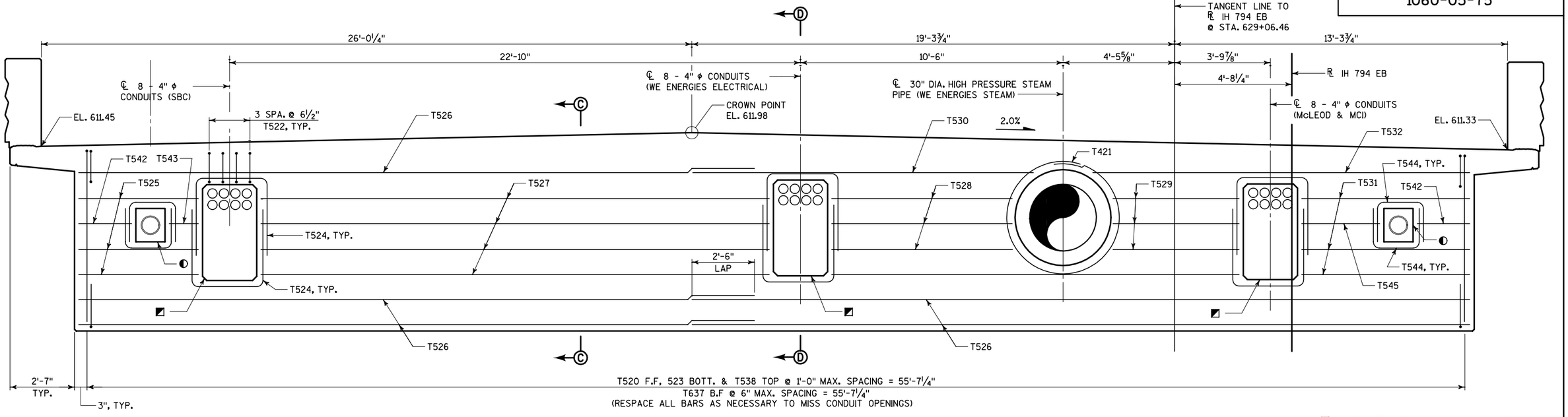
SHEET 234 OF 396

3102

8

STATE PROJECT NUMBER

1060-05-75

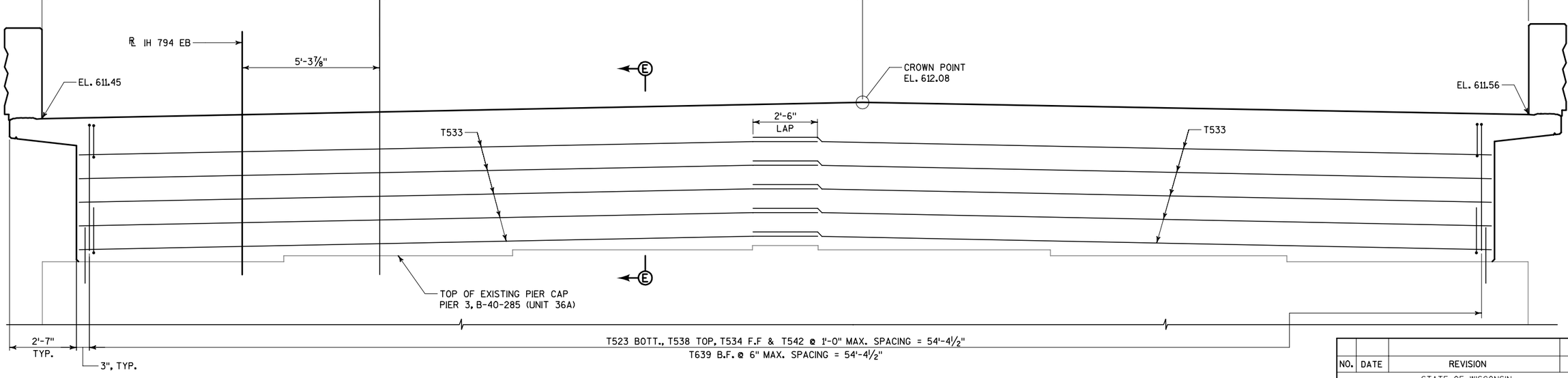


ELEVATION VIEW AT PIER P4-004

(LOOKING WEST - DIMENSIONS & ELEVATIONS GIVEN ALONG ℄ PIER P4-004)

◩ 2'-2" WIDE X 3'-10" HIGH BLOCKOUT FOR UTILITY CONDUITS. COORDINATE VERTICAL LOCATION OF OPENINGS WITH UTILITIES.

◐ 1'-2" WIDE X 1'-4" HIGH BLOCKOUT FOR 10" ϕ DOWNSPOUT.



ELEVATION VIEW AT EXISTING PIER 3

(LOOKING EAST - DIMENSIONS & ELEVATIONS GIVEN ALONG ℄ EXISTING PIER 3, STRUCTURE B-40-285 UNIT 38A)

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	KES	KES

SUPERSTRUCTURE DETAILS 2

SHEET 235 OF 396

3103

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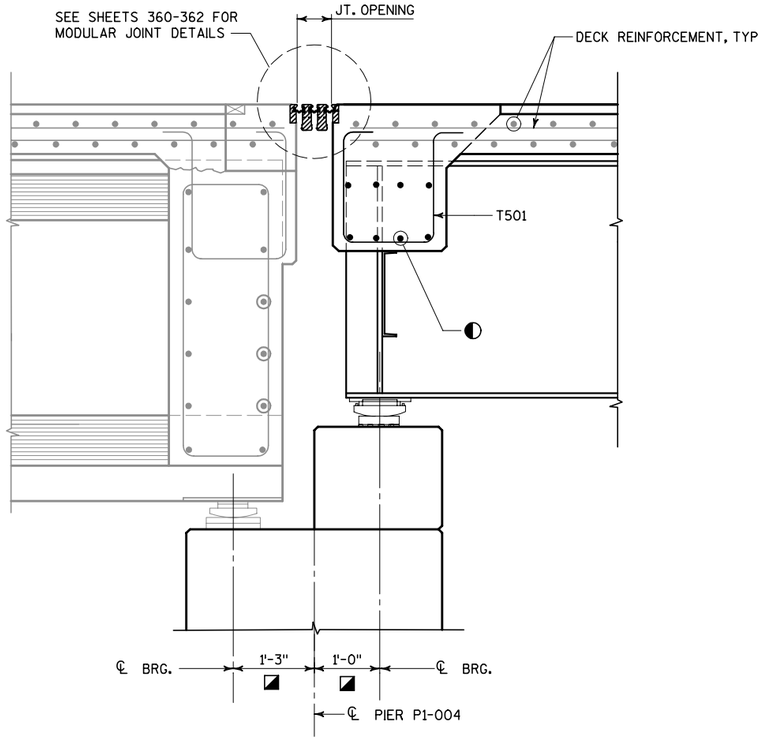
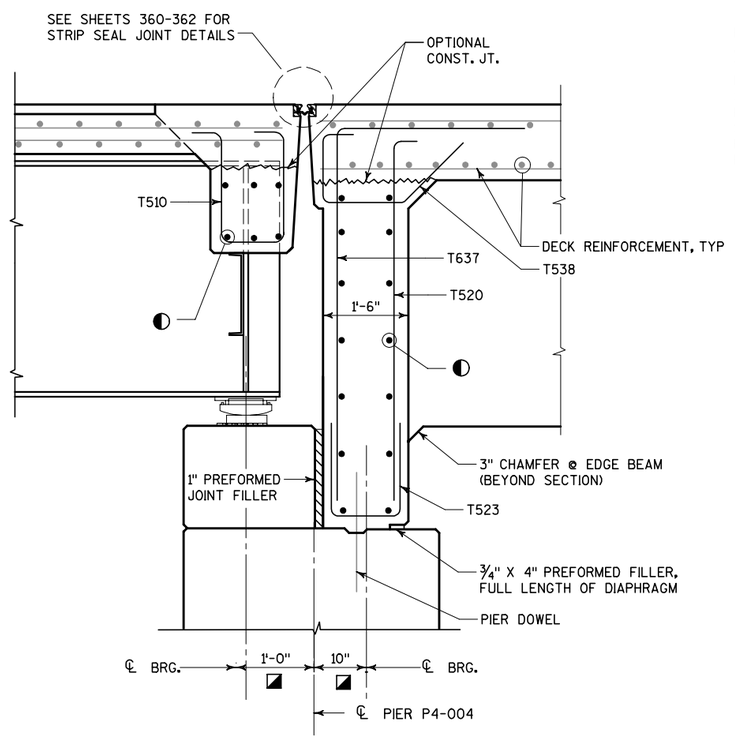
STATE PROJECT NUMBER

1060-05-75

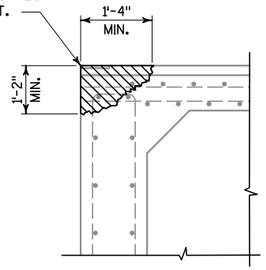


SECTION A-A

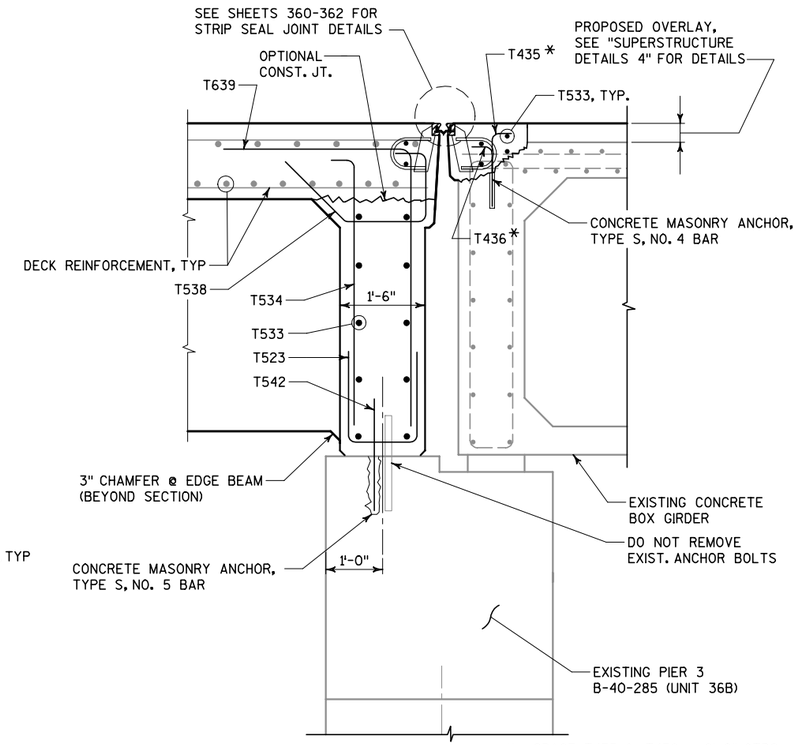


SECTION C-C

REMOVE EXISTING STEEL PLATE JOINT AND CONCRETE TO DIMENSIONS SHOWN. SALVAGE AND INCORPORATE LONGITUDINAL DECK STEEL AND STIRRUP INTO PROPOSED WORK. REMOVAL IS INCLUDED IN THE LUMP SUM PAY ITEM THAT COVERS ALL EXISTING STRUCTURAL REMOVALS REQUIRED IN THE CONTRACT.

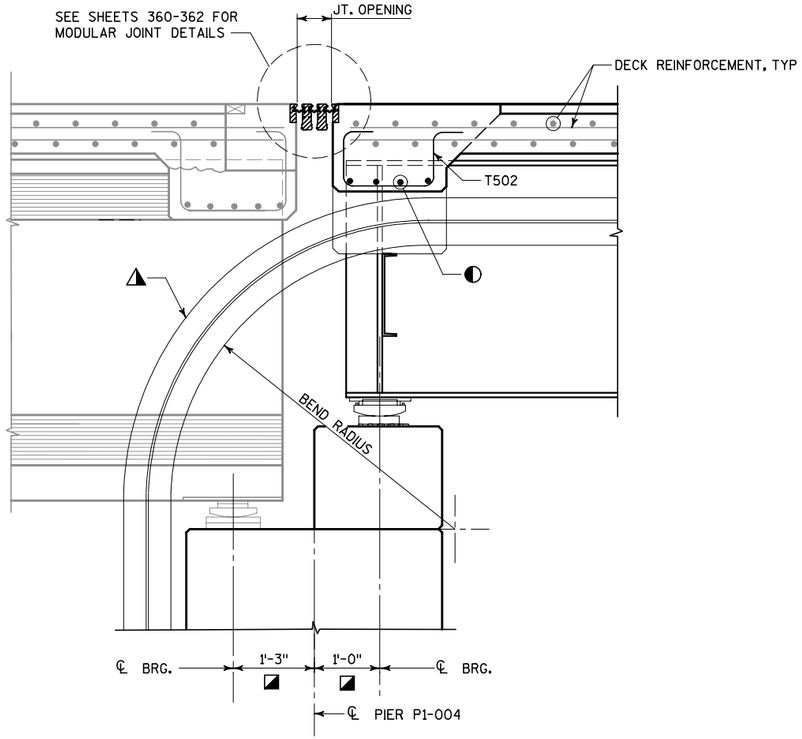


REMOVAL DETAIL A

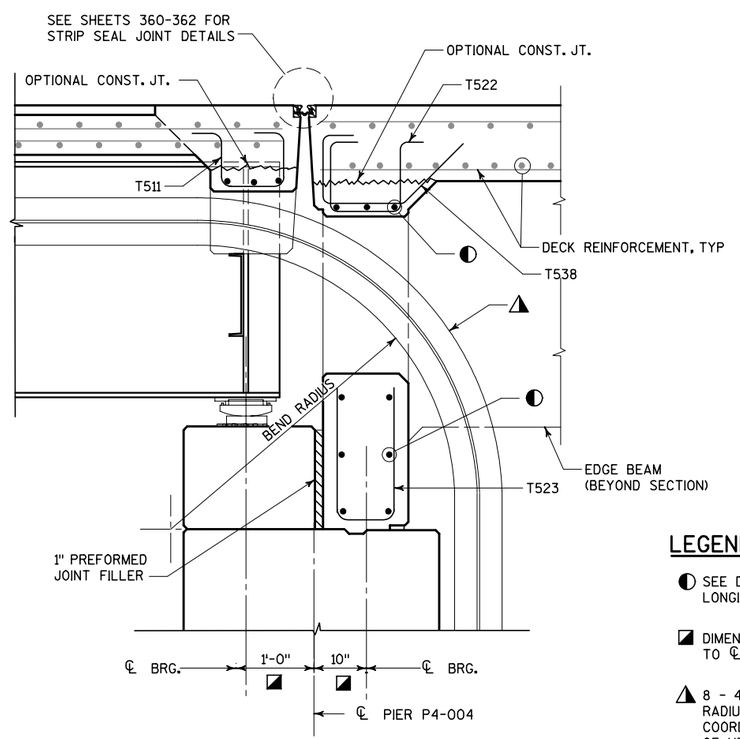


* SPACE T435 & T436 @ 2'-0" CTRS. ALTERNATE BARS TO ACHIEVE A 1'-0" SPA. BETWEEN ADJACENT BARS.

SECTION E-E



SECTION B-B



SECTION D-D

LEGEND

◐ SEE DIAPHRAGM ELEVATION VIEWS FOR LONGITUDINAL REINFORCEMENT CALLOUTS

◪ DIMENSIONS GIVEN PERPENDICULAR TO ℄ PIER

⚠ 8 - 4" ϕ CONDUITS. MAXIMUM BEND RADIUS OF LOWER CONDUITS IS 5'-0". COORDINATE VERTICAL LOCATION OF UTILITY OPENINGS THE UTILITY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

SUPERSTRUCTURE DETAILS 3

SHEET 236 OF 396

3104

8

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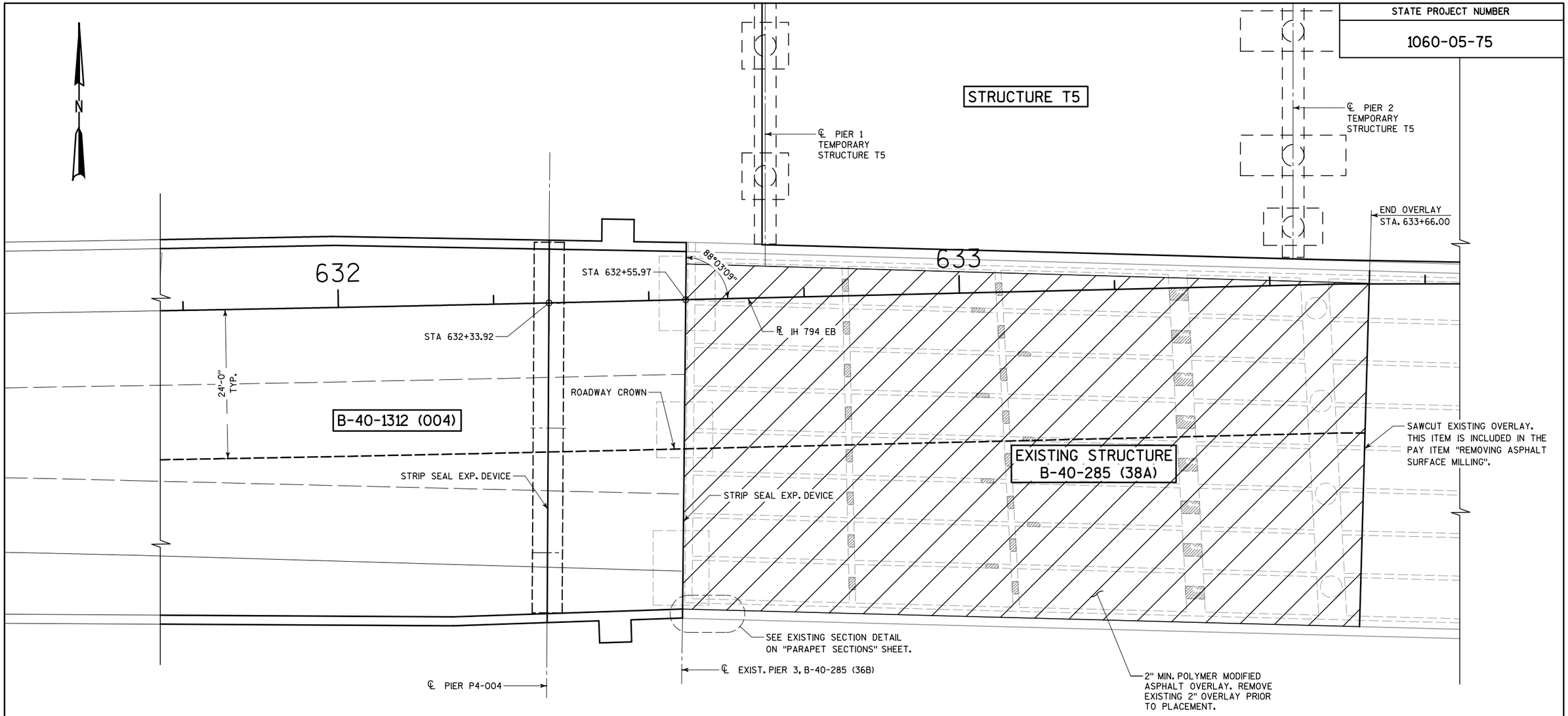
STATE PROJECT NUMBER

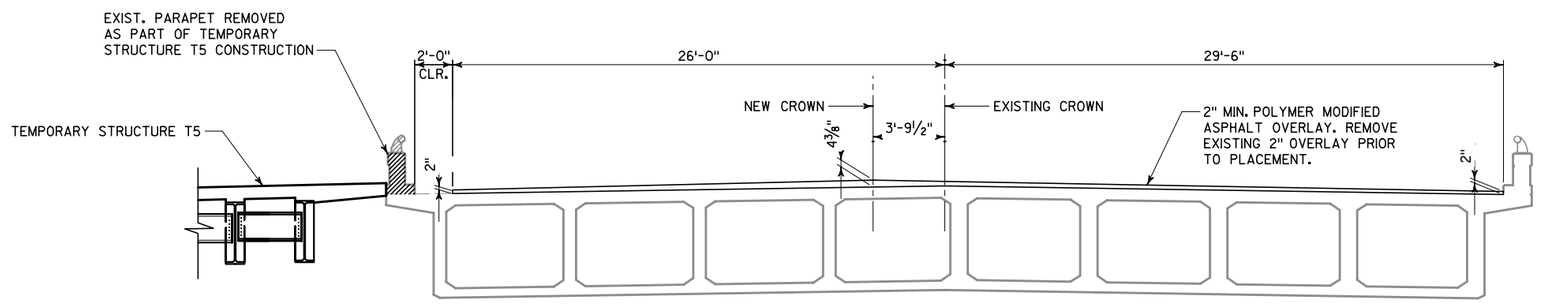
1060-05-75



PLAN

(STRUCTURE B-40-1312 (004), EXISTING STRUCTURE B-40-285 (38A), AND TEMPORARY STRUCTURE T5 SHOWN)

OVERLAY WILL BE PLACED PRIOR TO TEMP. STRUCTURE T5 REMOVAL AND BARRIER REPLACEMENT ON THE NORTH SIDE OF STRUCTURE B-40-285 UNIT 38A. STOP OVERLAY 2'-0" CLEAR FROM THE EXISTING CURB LINE OF THE NORTH PARAPET (REMOVED AS PART OF STRUCTURE T5 CONSTRUCTION) TO FACILITATE REPLACEMENT OF THIS PARAPET.



PARTIAL SECTION

(EXISTING STRUCTURE B-40-285 (38A) OVERLAY AT EXPANSION JOINT - STA. 632+55.92)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

SUPERSTRUCTURE DETAILS 4

SHEET 237 OF 396

3105

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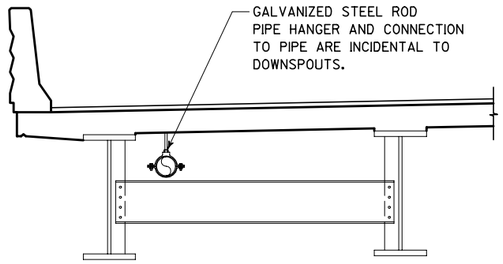
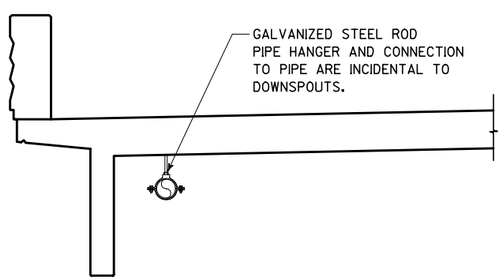
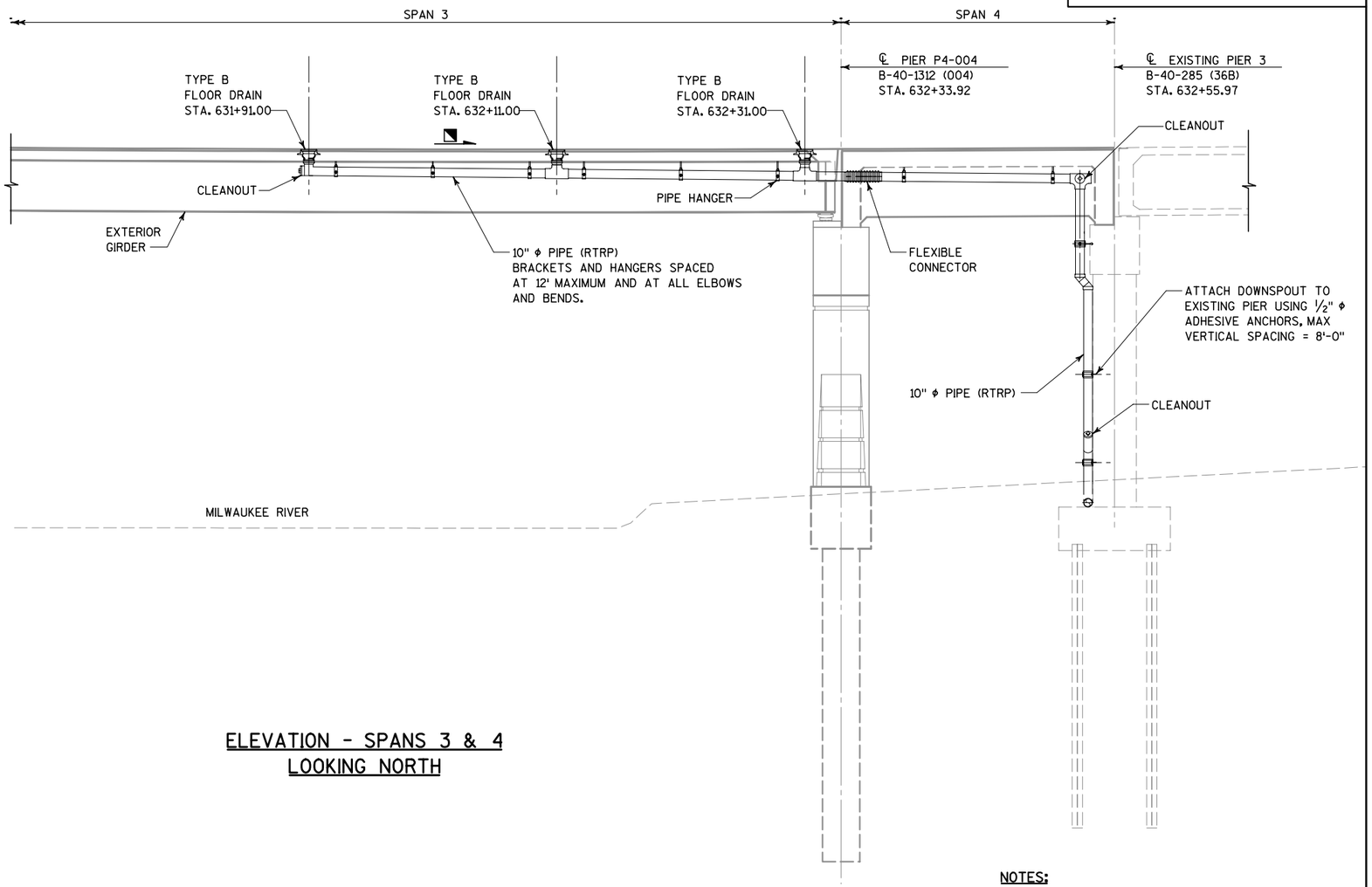
STATE PROJECT NUMBER
1060-05-75



HANGER DETAIL
(SPAN 3)



HANGER DETAIL
(SPAN 4)



ELEVATION - SPANS 3 & 4
LOOKING NORTH

NOTES:

THE HORIZONTAL AND VERTICAL ALIGNMENT OF THE DOWNSPOUT MAY BE ALTERED TO AVOID INTERFERENCE WITH THE GIRDER CROSS FRAME DIAPHRAGMS. MAINTAIN 2% MINIMUM SLOPE AND TRANSITION TO STEEPER SLOPE AS SOON AS POSSIBLE.

ALL FITTINGS, ELBOWS, FUNNELS, CLEANOUTS, STRAPS, HANGERS, AND BOLTS REQUIRED FOR ATTACHING THE DOWNSPOUT TO THE STRUCTURE ARE INCIDENTAL TO THE BID ITEM "DOWNSPOUT 10-INCH".

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC. 2004	DRAWN BY RWN	PLANS CK'D. PJC

SUPERSTRUCTURE DETAILS 5

SHEET 238 OF 396

3106

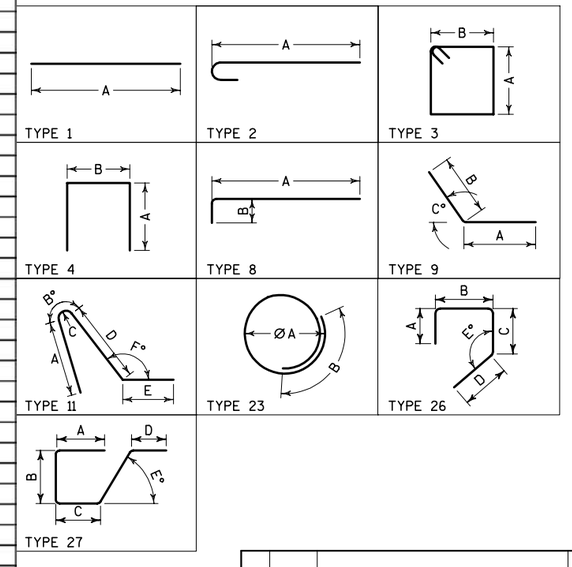
FILE NAME: R:\C\bridges\1312\cds\1312-04S037D.dgn PEN TABLE: \\mtp\Final\Dgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:38 Plotted by: emccrigh

STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS										
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J	LOCATION	REMARKS
S501	E	936	5'-4"	5206	11	1'-9"	159°	2"	2'-0"	1'-0"	116°				PARAPET DOWEL - VERTICAL	
S602	E	7	6'-6"	68	9	3'-3'	3'-3'	83°							LIGHT POLE BASE PARAPET DOWELS	
S603	E	18	6'-5"	173	8	3'-3"	3'-3"								EXTRA TOP AT SIGN BRIDGES	
S605	E	12	14'-9"	266	2	14'-0"									LIGHT POLE BASE EXTRA TRANSVERSE	
S507	E	5	4'-2"	22	9	1'-11"	2'-3"	15°							LIGHT POLE BASE EXTRA DOWELS	
S811	E	56	18'-10"	2816	8	18'-0"	1'-0"								EXTRA TOP AT SIGN BRIDGES	
S817	E	26	12'-11"	897	2	12'-0"									EXTRA TOP/BOTTOM AT SIGN BRIDGES	
S551	E	519	38'-8"	20931	1	38'-8"									SLAB BOTTOM - TRANSVERSE - STEEL SPANS	
S552	E	517	44'-4"	23906	1	44'-4"									SLAB TOP - TRANSVERSE - STEEL SPANS	
S553	E	519	26'-0"	14074	1	26'-0"									SLAB BOTTOM - TRANSVERSE - STEEL SPANS	
S554	E	517	20'-3"	10919	1	20'-3"									SLAB TOP - TRANSVERSE - STEEL SPANS	
S455	E	291	32'-0"	6220	1	32'-0"									SLAB TOP - LONGITUDINAL - SPAN 1 & SPAN 3	
S756	E	95	12'-4"	2395	1	12'-4"									SLAB TOP - LONGITUDINAL - SPAN 1	
S757	E	196	60'-0"	24037	1	60'-0"									SLAB TOP - LONGITUDINAL - OVER PIER P2-004 & P3-004	
S458	E	197	30'-0"	3948	1	30'-0"									SLAB TOP - LONGITUDINAL - SPAN 2	
S459	E	202	19'-0"	2564	1	19'-0"									SLAB TOP & BOTTOM - LONGITUDINAL - SPAN 3	
S460	E	686	40'-0"	18330	1	40'-0"									SLAB BOTTOM - LONGITUDINAL	
S470	E	62	21'-2"	877	1	21'-2"									SLAB TOP - LONGITUDINAL; EDGE BEAM - SIDES - SPAN 4	
S871	E	124	21'-2"	7008	1	21'-2"									SLAB BOTTOM - LONGITUDINAL - SPAN 4	
S672	E	62	32'-2"	2995	1	32'-2"									SLAB BOTTOM - TRANSVERSE - SPAN 4	
S873	E	10	21'-2"	565	1	21'-2"									EDGE BEAM - BOTTOM - SPAN 4	
S474	E	44	11'-8"	343	3	4'-9"	10"								EDGE BEAM - STIRRUPS - SPAN 4	
S575	E	62	5'-4"	345	1	5'-4"									SLAB BOTTOM - TRANSVERSE - SPAN 4	
S590	E	72	20'-0"	1502	1	20'-0"									SLAB - LONGITUDINAL @ DECK DRAINS	
S792	E	24	20'-0"	981	1	20'-0"									SLAB - LONGITUDINAL @ DECK DRAINS	
S694	E	32	10'-11"	525	8	5'-6"	5'-6"								SLAB - TRANSVERSE @ DECK DRAINS	
S599	E	986	6'-0"	6170	2	5'-2"									SLAB TOP - TRANSVERSE @ PARAPET	
T501	E	41	6'-5"	274	27	10"	1'-10"	1'-7"	10"	90.00					DIAPHRAGM - VERTICAL - P1-004	
T502	E	9	3'-7"	34	27	10"	5"	1'-7"	10"	90.00					DIAPHRAGM - VERTICAL - P1-004	
T503	E	21	5'-4"	117	4	1'-6"	2'-7"								DIAPHRAGM AT BLOCKOUT	
T504	E	28	10'-10"	316	1	10'-10"									DIAPHRAGM HORIZONTAL IN BAYS	
T505	E	25	4'-3"	111	1	4'-3"									DIAPHRAGM HORIZONTAL IN BAYS	
T506	E	4	2'-8"	11	1	2'-8"									DIAPHRAGM HORIZONTAL IN END BAY	
T507	E	4	5'-7"	23	1	5'-7"									DIAPHRAGM HORIZONTAL IN END BAY	
T508	E	4	5'-3"	22	27	10"	1'-3"	1'-7"	10"	90.00					DIAPHRAGM VERTICAL IN END BAY	
T510	E	47	5'-7"	274	27	10"	1'-10"	9"	10"	90.00					DIAPHRAGM VERTICAL P4-004	
T511	E	11	2'-9"	32	27	10"	5"	9"	10"	90.00					DIAPHRAGM VERTICAL P4-004	
T512	E	3	7'-9"	24	1	7'-9"									DIAPHRAGM HORIZONTAL P4-004	
T513	E	3	10'-7"	33	1	10'-7"									DIAPHRAGM HORIZONTAL P4-004	
T514	E	3	4'-4"	14	4	1'-7"	1'-7"								DIAPHRAGM OVER DOWNSPOUT	
T515	E	3	1'-2"	4	1	1'-2"									DIAPHRAGM HORIZONTAL END BAY	
T516	E	3	1'-10"	6	1	1'-10"									DIAPHRAGM HORIZONTAL END BAY	
T520	E	54	7'-7"	427	8	6'-10"	10"								DIAPHRAGM VERTICAL P4-004	
T521	E	2	14'-7"	30	23	4'-2"	1'-6"								AROUND 30" STEAM PIPE P4-004	
T522	E	12	3'-7"	45	27	10"	8"	1'-1"	10"	90.00					DIAPHRAGM VERTICAL P4-004	
T523	E	99	4'-11"	507	4	2'-0"	1'-1"								DIAPHRAGM VERTICAL P4-004 & EXISTING PIER 3	
T524	E	12	9'-2"	115	4	3'-5"	2'-7"								DIAPHRAGM AROUND BLOCKOUTS	
T525	E	6	4'-7"	29	1	4'-7"									DIAPHRAGM HORIZONTAL P4-004	
T526	E	10	29'-2"	304	1	29'-2"									DIAPHRAGM HORIZONTAL P4-004	
T527	E	8	20'-4"	170	1	20'-4"									DIAPHRAGM HORIZONTAL P4-004	
T528	E	6	7'-0"	44	1	7'-0"									DIAPHRAGM HORIZONTAL P4-004	
T529	E	6	4'-9"	30	1	4'-9"									DIAPHRAGM HORIZONTAL P4-004	
T530	E	2	11'-8"	24	1	11'-8"									DIAPHRAGM HORIZONTAL P4-004	
T531	E	6	7'-0"	44	1	7'-0"									DIAPHRAGM HORIZONTAL P4-004	
T532	E	2	15'-7"	33	1	15'-7"									DIAPHRAGM HORIZONTAL P4-004	
T533	E	32	28'-7"	954	1	28'-7"									DIAPHRAGM HORIZONTAL EXISTING PIER 3	
T534	E	55	5'-11"	339	8	5'-2"	10"								DIAPHRAGM VERTICAL EXISTING PIER 3	
T435	E	30	1'-9"	35	8	1'-4"	6"								EXISTING SLAB - TOP @ STRIP SEAL	
T436	E	30	1'-5"	28	8	1'-0"	6"								EXISTING SLAB - TOP @ STRIP SEAL	
T637	E	54	10'-8"	865	8	6'-10"	4'-0"								DIAPHRAGM VERTICAL P4-004	
T538	E	111	4'-10"	560	26	10"	1'-4"	1'-4"	1'-6"	135°					DIAPHRAGM VERTICAL P4-004 & EXISTING PIER 3	
T639	E	55	9'-0"	743	8	5'-2"	4'-0"								DIAPHRAGM VERTICAL EXISTING PIER 3	
T440	E	2	1'-7"	2	1	1'-7"									EXISTING CURB - HORIZONTAL	
T441	E	3	1'-4"	3	1	1'-4"									EXISTING CURB - DOWEL	
T542	E	60	2'-2"	136	1	2'-2"									DIAPH. HORIZ. P4-004 & DIAPH. DOWEL VERTICAL EXST. PIER 3	
T543	E	2	1'-2"	2	1	1'-2"									DIAPHRAGM HORIZONTAL P4-004	
T544	E	8	2'-10"	24	4	1'-6"	1'-6"								DIAPHRAGM HORIZONTAL P4-004	
T545	E	2	3'-1"	6	1	3'-1"									DIAPHRAGM HORIZONTAL P4-004	
		TOTAL WEIGHT =		160995	LBS											

NOTES:

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. SEE THE ACCOMPANYING BAR SERIES TABLE FOR SET COUNT AND BAR LENGTHS.
5. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
6. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.



NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

SUPERSTRUCTURE REINF. SCHEDULE

SHEET 239 OF 396

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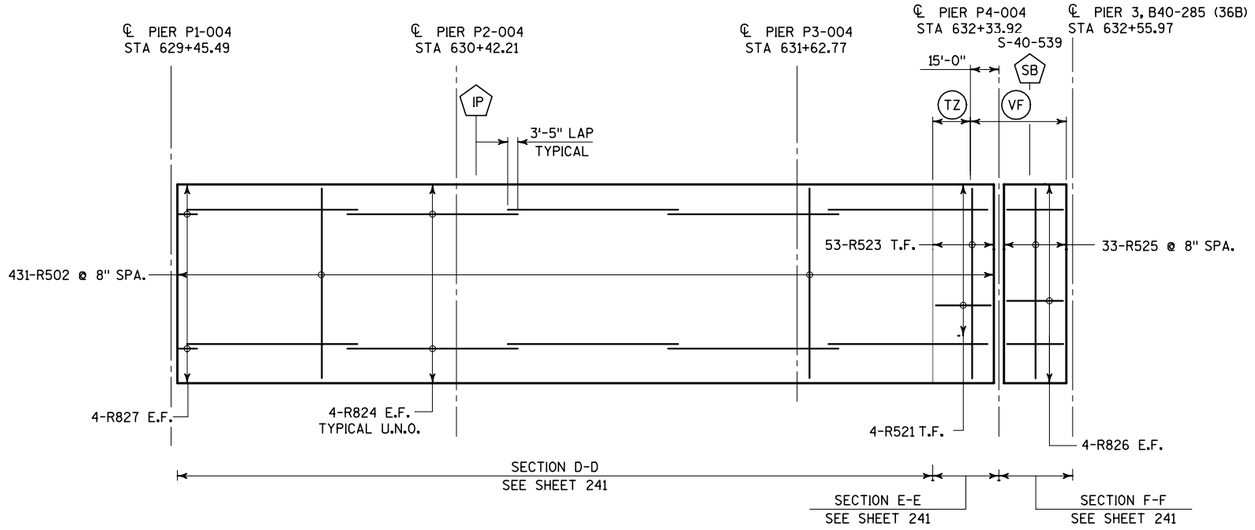
8

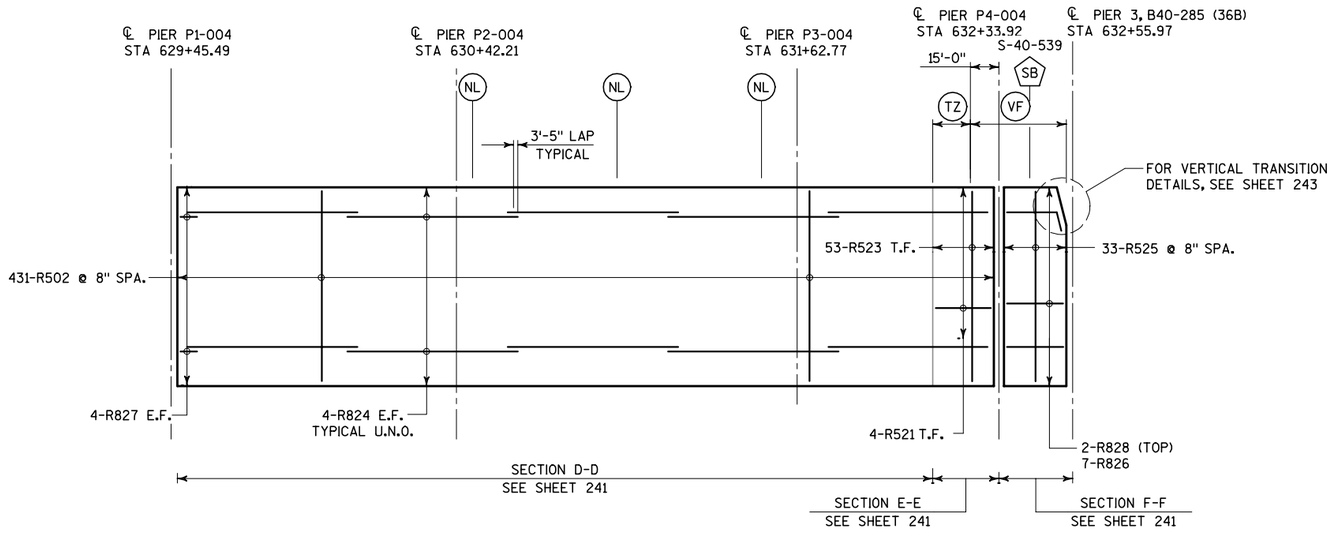
STATE PROJECT NUMBER

1060-05-75



LEFT SIDE PARAPET ELEVATION

LOOKING LEFT AT TRAFFIC FACE
(NOT TO SCALE - SURFACE FEATURES NOT SHOWN)



RIGHT SIDE PARAPET ELEVATION

LOOKING LEFT AT EXTERIOR FACE
(NOT TO SCALE - SURFACE FEATURES NOT SHOWN)

LEGEND

- IP — ITS POLE MOUNTING LOCATION. SEE SHEETS 375 TO 376.
- SB — SIGN BRIDGE MOUNTING LOCATION. SEE SHEETS 381 TO 382.
- VF — 37'-0⅝" VERTICAL FACE BARRIER SECTION - SEE SECTION E-E ON SHEET 241.
  VERTICAL FACE BEGINS 25'-8¾" FROM CENTERLINE SIGN BRIDGE AS SHOWN AND CONTINUES TO THE DOWNSTREAM END OF THE BRIDGE UNIT.
- TZ — 20'-0" TRANSITION ZONE FROM SAFETY SHAPE TO VERTICAL FACE BARRIER - SEE SECTION E-E ON SHEET 241.
- T.F. — DENOTES BARS LOCATED ON 'TRAFFIC FACE' OF PARAPET.
- E.F. — DENOTES BARS LOCATED ON BOTH FACES OF PARAPET ('EACH FACE').
- NL — NAVIGATIONAL LIGHT MOUNTING LOCATION. SEE LIGHTING SHEETS FOR DETAILS.

NOTES

1. SEE SHEET 3 & 4 FOR GENERAL NOTES.
2. UNLESS INSTALLATION IS EXPLICITLY COVERED BY A SEPARATE PAY ITEM, INSTALLATION OF ALL EMBEDMENTS IS CONSIDERED INCIDENTAL TO PAY ITEM SPV.0090.2040 - PARAPET BRIDGE FREEWAY STRUCTURES.
   SUPPLY OF EMBEDMENTS IS INCLUDED UNDER OTHER PAY ITEMS - SEE QUANTITY SHEETS.
   SUPPLY OF EXPANSION FITTINGS FOR CONDUIT IS CONSIDERED INCIDENTAL TO THE PAY ITEM FOR THE CONDUIT BEING CONNECTED.
3. ALL EXPOSED CONDUIT ENDS SHALL BE SUPPLIED WITH TEMPORARY WEATHERPROOF CAPS TO PREVENT INGRESS OF MOISTURE PRIOR TO LIGHT POLE OR SIGN BRIDGE INSTALLATION.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	DJS	KES

PARAPET ELEVATIONS

SHEET 240 OF 396

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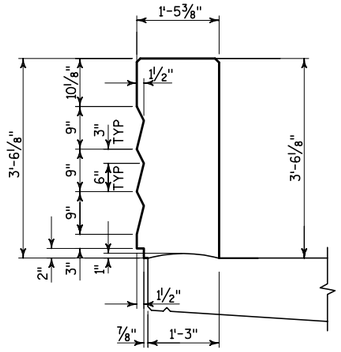
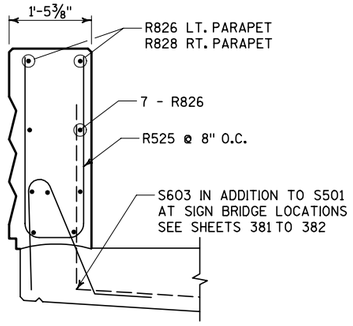
STATE PROJECT NUMBER
1060-05-75

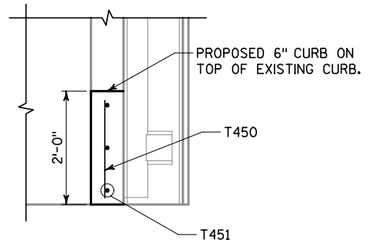


SECTION F-F
(SHOWING DIMENSIONS)

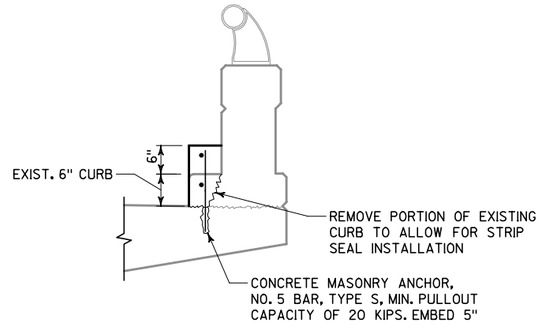


VERTICAL FACE

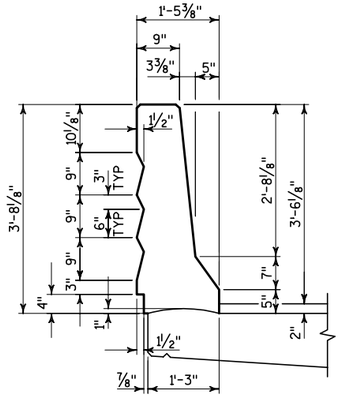
SECTION F-F
(SHOWING REINFORCEMENT)



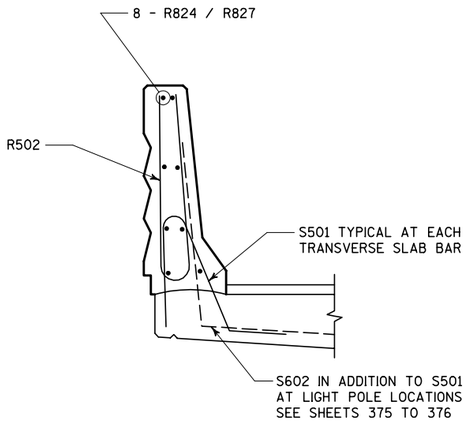
PLAN



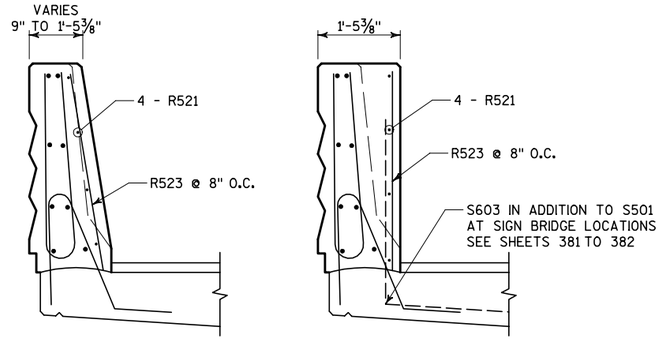
EXISTING SECTION



SECTION D-D
(SHOWING DIMENSIONS)



SECTION D-D
(SHOWING REINFORCEMENT)



TRANSITION ZONE

VERTICAL FACE

SECTION E-E

NOTES

1. SEE SHEET 3 & 4 FOR GENERAL NOTES.
2. UTILITY CONDUITS NOT SHOWN IN SECTIONS. SEE SHEET 242 FOR NUMBER, SIZE AND EXTENT OF CONDUITS REQUIRED.
3. INSTALLATION OF ALL EMBEDDED ITEMS IS CONSIDERED INCIDENTAL TO PAY ITEM SPV.0090.2040 - PARAPET BRIDGE (FREEWAY STRUCTURES).

   SUPPLY OF EMBEDDED ITEMS IS INCLUDED UNDER OTHER PAY ITEMS - SEE QUANTITIES SHEETS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

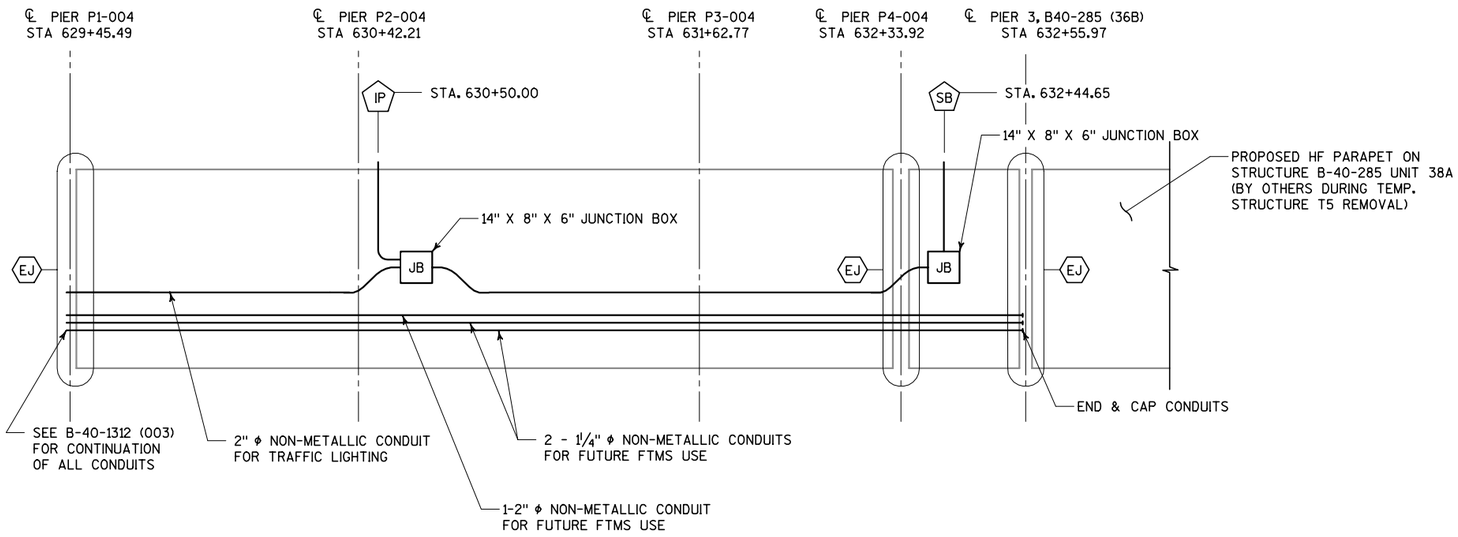
PARAPET SECTIONS

SHEET 241 OF 396

3109

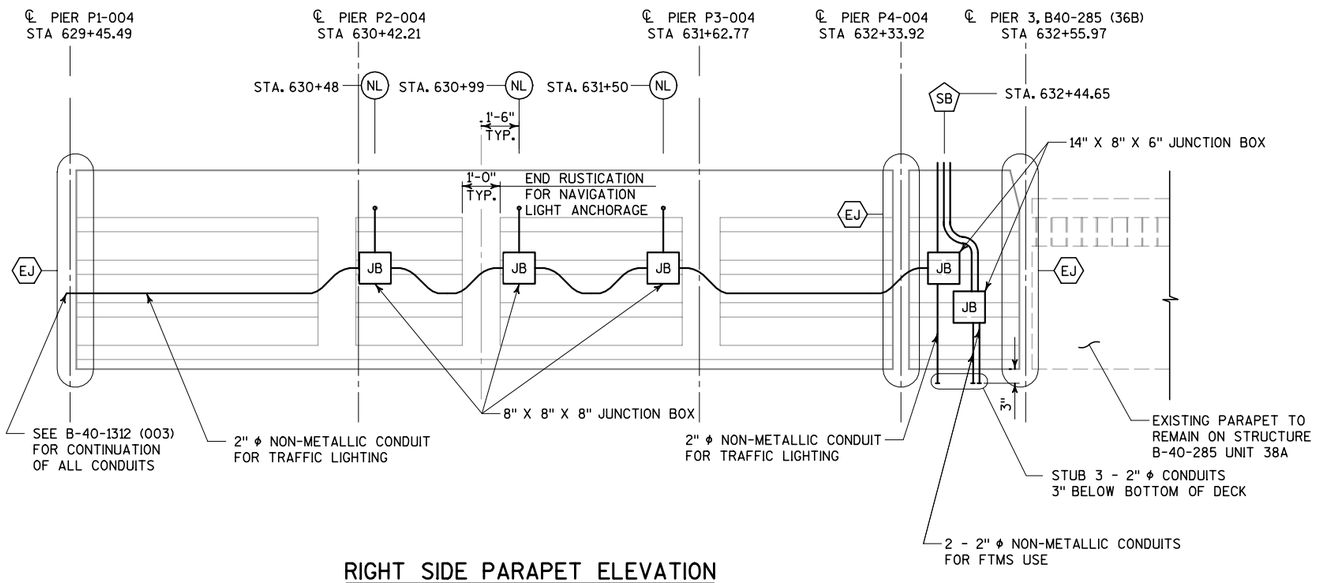
8

STATE PROJECT NUMBER
1060-05-75



LEFT SIDE PARAPET ELEVATION

LOOKING LEFT AT TRAFFIC FACE
(NOT TO SCALE - SURFACE FEATURES NOT SHOWN)



RIGHT SIDE PARAPET ELEVATION

LOOKING LEFT AT EXTERIOR FACE
(NOT TO SCALE - SURFACE FEATURES SHOWN)

LEGEND

- (EJ) EXPANSION JOINT LOCATION. SEE SHEET 243 FOR DETAILS OF CONDUIT JOINTS REQUIRED IN THIS AREA (IF CONDUITS ARE PRESENT).
- (IP) ITS POLE MOUNTING LOCATION - INSTALLATION OF ANCHOR ASSEMBLY REQUIRED. SEE SHEETS 375 TO 376.
- (LP) LIGHT POLE MOUNTING LOCATION - INSTALLATION OF ANCHOR ASSEMBLY REQUIRED. SEE SHEETS 375 TO 376.
- (SB) SIGN BRIDGE MOUNTING LOCATION - INSTALLATION OF ANCHOR ASSEMBLY REQUIRED. SEE SHEETS 381 TO 382.
- [JB] JUNCTION BOX LOCATION - 14" X 8" X 6" OR 8" X 8" X 8" AS REQ'D. LOCATE ON TRAFFIC FACE OF BARRIER WITH TOP EDGE OF BOX 8" BELOW TOP OF PARAPET UNLESS OTHERWISE NOTED. RESPACE PARAPET REINFORCEMENT LOCALLY AS REQUIRED TO CLEAR.
- (NL) NAVIGATIONAL LIGHT MOUNTING LOCATION. SEE LIGHT POLE SHEETS FOR DETAILS.

NOTES

1. SEE SHEETS 3 & 4 FOR GENERAL NOTES.
2. UNLESS INSTALLATION IS EXPLICITLY COVERED BY A SEPARATE PAY ITEM, INSTALLATION OF ALL EMBEDMENTS IS CONSIDERED INCIDENTAL TO PAY ITEM SPV.0090.2040 - PARAPET BRIDGE FREEWAY STRUCTURES.

   SUPPLY OF EMBEDMENTS IS INCLUDED UNDER OTHER PAY ITEMS - SEE QUANTITIES SHEET.

   SUPPLY OF EXPANSION FITTINGS FOR CONDUIT IS CONSIDERED INCIDENTAL TO THE PAY ITEM FOR THE CONDUIT BEING CONNECTED.
3. ALL EXPOSED CONDUIT ENDS SHALL BE SUPPLIED WITH TEMPORARY WEATHERPROOF CAPS TO PREVENT INGRESS OF MOISTURE PRIOR TO LIGHT POLE OR SIGN BRIDGE INSTALLATION.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PARAPET EMBEDDED WORK

SHEET 242 OF 396
3110

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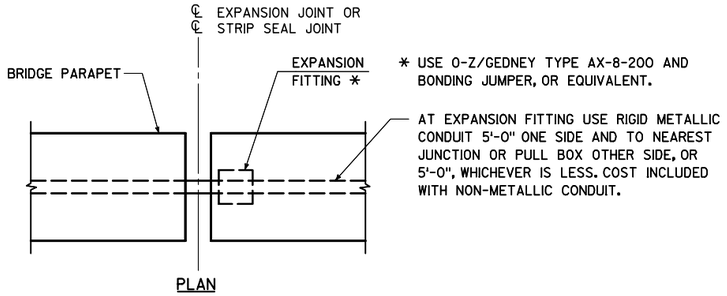
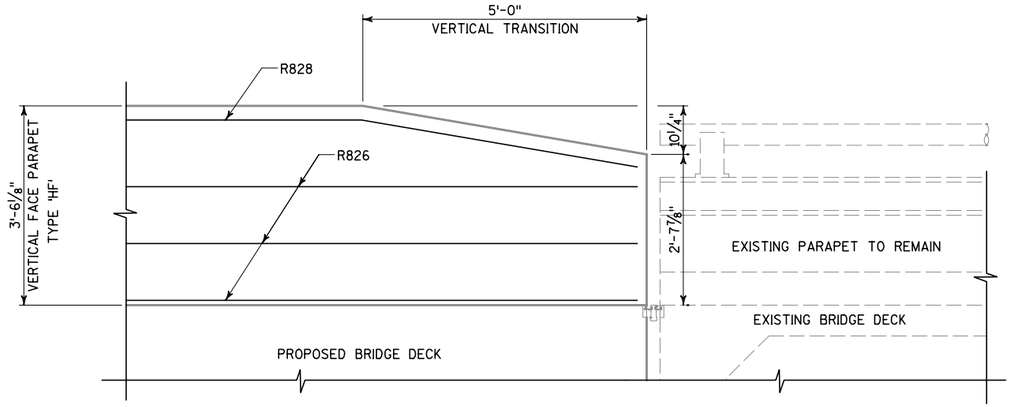
STATE PROJECT NUMBER

1060-05-75



CONDUIT EXPANSION JOINT

FOR USE AT: PIER P1-004 & PIER P4-004



RIGHT SIDE PARAPET ELEVATION

(LOOKING LEFT AT EXTERIOR FACE)

NOTES

1. SEE SHEETS 3 & 4 FOR GENERAL NOTES.
2. UNLESS INSTALLATION IS EXPLICITLY COVERED BY A SEPARATE PAY ITEM, INSTALLATION OF ALL EMBEDMENTS IS CONSIDERED INCIDENTAL TO PAY ITEM SPV.0090.2040 - PARAPET BRIDGE FREEWAY STRUCTURES.

   SUPPLY OF EMBEDMENTS IS INCLUDED UNDER OTHER PAY ITEMS - SEE QUANTITIES SHEETS.

   SUPPLY OF EXPANSION FITTINGS FOR CONDUIT IS CONSIDERED INCIDENTAL TO THE PAY ITEM FOR THE CONDUIT BEING CONNECTED.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

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2004	EKM	KES

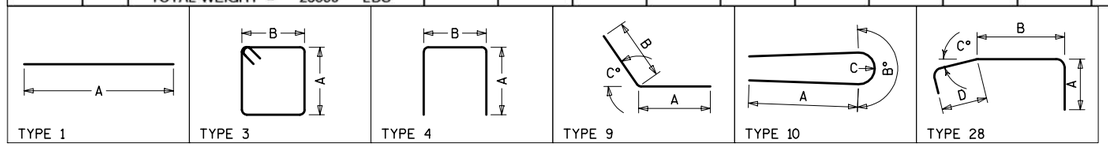
PARAPET DETAILS

SHEET 243 OF 396

3111

STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS										
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J	LOCATION	REMARKS
PARAPET																
R502	E	862	6'-10''	6143	10	3'-0"	184°	3"							HF PARAPET HAIRPINS	HF PARAPET HAIRPINS
R521	E	8	34'-4''	286	1	34'-4''									PARAPET HORIZONTAL	
R523	E	106	3'-5''	378	1	3'-5''									PARAPET VERITCAL	
R824	E	80	60'-0''	12816	1	60'-0''									PARAPET HORIZONTAL	
R525	E	66	7'-1''	488	4	3'-2"	11"								PARAPET VERTICAL	
R826	E	18	21'-6''	1033	1	21'-6''									PARAPET HORIZONTAL	
R827	E	16	10'-0''	427	1	10'-0''									PARAPET HORIZONTAL	
R828	E	2	21'-8''	116	9	16'-8"	5'-0"	10°							PARAPET HORIZONTAL	TOP @ VERTICAL TRANSITION
HF PARAPET LIGHT POLE BASE																
S602	E	7	6'-6''	0	9	3'-3"	3'-3"	83°							LIGHT POLE BASE PARAPET DOWELS	
S605	E	12	14'-9''	0	2	14'-0"									LIGHT POLE BASE EXTRA TRANSVERSE	
S507	E	5	4'-2''	0	9	1'-11"	2'-3"	15°							LIGHT POLE BASE EXTRA DOWELS	
R504	E	7	6'-3''	46	4	2'-2"	2'-1"								LIGHT POLE BASE HORIZONTAL TIES	
R505	E	5	2'-5''	13	9	1'-3"	1'-3"	90°							LIGHT POLE BASE END FACE	
R506	E	7	7'-3''	53	4	2'-8"	2'-1"								LIGHT POLE BASE HORIZONTAL TIES	
R507	E	10	8'-1''	84	4	3'-0"	2'-3"								LIGHT POLE BASE VERTICAL TIES	
R508	E	1	10'-0''	10	3	2'-3"	2'-3"								LIGHT POLE BASE STIRRUPS	
R409	E	8	3'-7''	19	4	1'-0"	1'-8"								LIGHT POLE BASE SIDE FACE	DIM'N. 'B' VARIES FROM 1'-5" TO 1'-11" IN 3 STEPS OF 2" (2 SETS OF 4 BARS REQ'D)
R510	E	4	2'-9''	11	1	2'-9"									LIGHT POLE BASE SIDE FACE	
HF PARAPET SIGN BRIDGE BASE																
R612	E	32	11'-7''	557	4	4'-0"	3'-9"								SIGN BRIDGE BASE HORIZONTAL TIES	
R613	E	20	6'-5''	193	28	1'-4"	4'-4"	76°	10"						SIGN BRIDGE BASE TOP BARS	
R414	E	40	5'-6''	147	4	1'-4"	2'-11"								SIGN BRIDGE PEDESTALS	
R615	E	36	10'-1''	545	4	3'-2"	3'-11"								SIGN BRIDGE BASE VERTICAL TIES	
R417	E	16	5'-1" *	54	4	1'-4"	2'-6" *								SIGN BRIDGE BASE SIDE FACE	DIM'N. 'B' VARIES FROM 2'-0 3/4" TO 2'-10 1/2" IN 3 STEPS OF 3 1/4" (SETS OF 4 BARS)
R519	E	12	4'-6''	56	1	4'-6''									SIGN BRIDGE BASE SIDE FACE	
R520	E	2	12'-10''	27	3	2'-0"	3'-11"								SIGN BRIDGE BASE STIRRUPS	
R421	E	16	4'-3''	45	4	1'-4"	1'-8" *								SIGN BRIDGE BASE SIDE FACE	DIM'N. 'B' VARIES FROM 1'-2 1/4" TO 2'-0" IN 3 STEPS OF 3 1/4" (SETS OF 4 BARS)
		TOTAL WEIGHT =	23550	LBS												



NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 & 4 FOR ADDITIONAL INFORMATION
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. * DENOTES AVERAGE DIMENSIONS FOR BAR SERIES. SEE THE 'REMARKS' COLUMN FOR COMPLETE SERIES INFORMATION.
7. ALL REINFORCEMENT IN THIS TABLE IS INCLUDED UNDER PAY ITEMS SPV.0090.2040 AND SPV.0090.2045 - PARAPET BRIDGE TYPE LF AND HF.

   NO SEPARATE PAYMENT WILL BE MADE - QUANTITIES ARE PROVIDED FOR INFORMATION ONLY.

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

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PARAPET REINFORCEMENT SCHEDULE

SHEET 244 OF 396

3112

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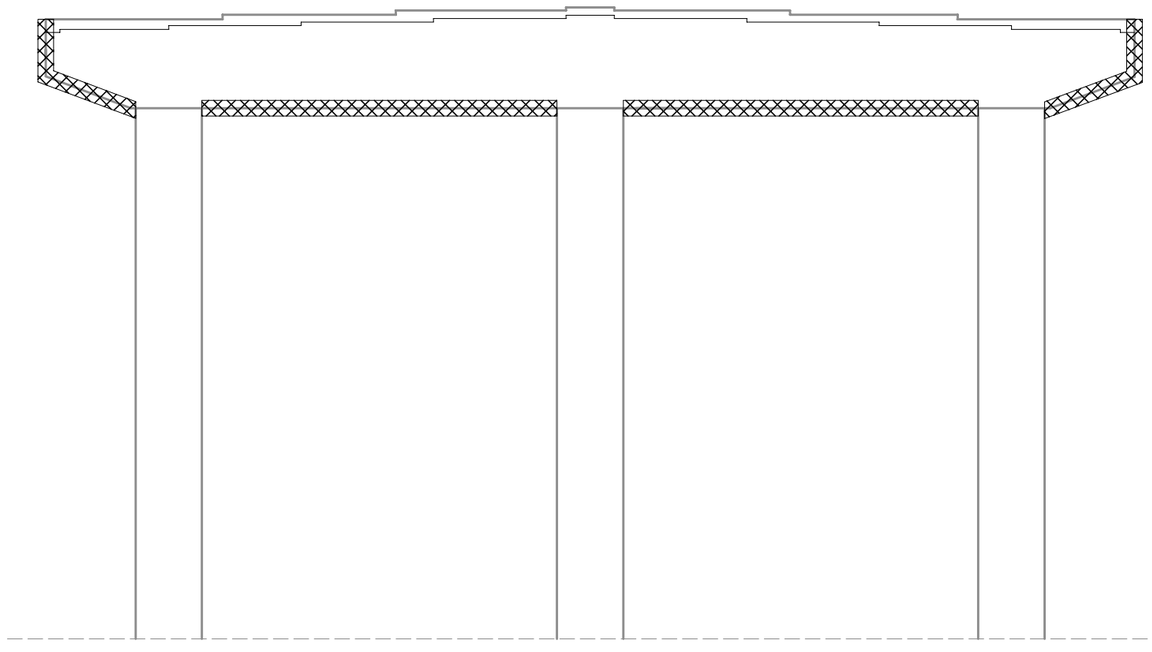
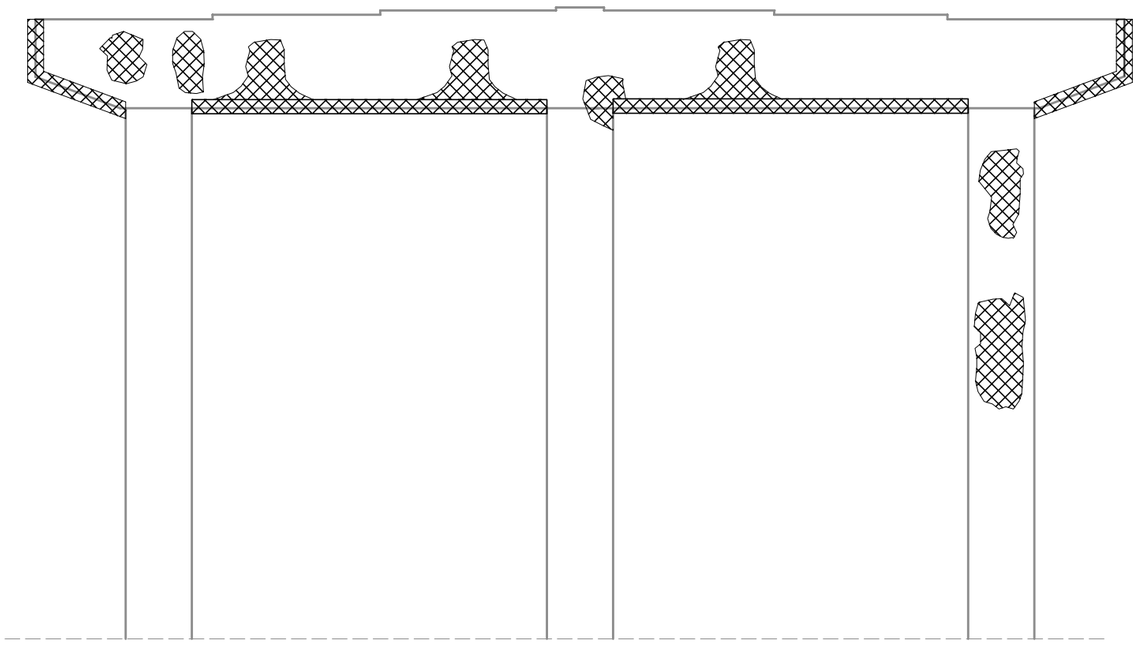


ELEVATION
(EXISTING PIER 3, B-40-285 UNIT 36B - LOOKING EAST)



ELEVATION
(EXISTING PIER 3, B-40-285 UNIT 36B - LOOKING WEST)

NOTES

BID ITEM "CONCRETE SURFACE REPAIR"
ESTIMATED QUANTITY = 320 FT^2

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (004)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

EXISTING PIER 3 DETAILS

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3113

STATE PROJECT NUMBER

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B-40-1312 (001)

B-40-1312 (005)

B-40-1221

B-40-1131

16B-3

PB-27

PB-25

7B-2

UNDERGROUND WISDOT LIGHTING TO BE RELOCATED

UNDERGROUND MCI COMMUNICATION LINES TO BE RELOCATED

UNDERGROUND AT&T LONG DISTANCE COMMUNICATION LINES TO BE RELOCATED

UNDERGROUND AMERITECH COMMUNICATION LINES TO BE RELOCATED

TEMPORARY SHORING

MODULAR EXP. DEVICES

NAME PLATE LOCATION

POINT OF MIN. VERT. CL.

STA 104WP+19.93
STA 104SP+01.40
STA 103WP+91.92
STA 83NE+94.76
STA 82NE+46.17
STA 102SP+38.29
STA 103SP+45.46
STA 104SP+60.46
STA 105SP+75.46
STA 106SP+90.46

℄ PIER P1A-005
℄ PIER P1B-005
℄ PIER P2-005
℄ PIER P3-005
℄ PIER P4-005
℄ PIER P5-005

℄ WJ
℄ SE
℄ WP
℄ NE
℄ SP

52WJ
53WJ
51SE
52SE
102WP
103WP
104WP
105SP
106SP
107SP
82NE
83NE
84NE
85NE
103SP
104SP
105SP
107SP

90°0'00"

107'-2" SPAN 1
115'-0" SPAN 2
115'-0" SPAN 3
115'-0" SPAN 4
115'-0" SPAN 5

UNIT 005 LENGTH = 895'-9"

NORMAL TO ℄ NE 31'-10⅝"
NORMAL TO ℄ SP 31'-9"
19'-0"
1'-5¼"
22'-5⅜"
10"
40'-10¾"
28'-0"
10'-0"
1'-5⅜"

NOTES

1. LAYOUT ANGLES SHOWN ARE MEASURED FROM A LINE TANGENT TO ℄ AT ℄ PIER.

LEGEND

EXISTING BORINGS DRILLED BETWEEN 1961 AND 1964.

NEW STRUCTURE BORINGS DRILLED BETWEEN 2002 AND 2003.

PLAN

(UNIT 005: 8 SPAN 72" PRESTRESSED GIRDER)

ELEVATION

670
660
650
640
630
620
610
600
590
580
570
560
550
540

℄ PIER P1A-005 & ℄ PIER P1B-005
MODULAR EXPANSION DEVICE
LIGHT POLE, TYP.
℄ PIER P2-005
℄ PIER P3-005
℄ PIER P4-005
ITS POLE
℄ PIER P5-005
SIGN STRUCTURE S-40-533

EXP
8" DOWNSPOUT
FIX

PIER P1A-005 - EL. 597.98
PIER P1B-005 - EL. 597.82
EL. 595.66
EL. 597.17
EL. 597.53
EL. 606.52

6%
MIN. VERT. CL. 31'-11"
EXISTING GROUND LINE
℄ WEST TO ST PAUL RAMP
C.I.P.C. PILES, (TYP.)

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

005 GENERAL PLAN AND ELEVATION 1

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3114

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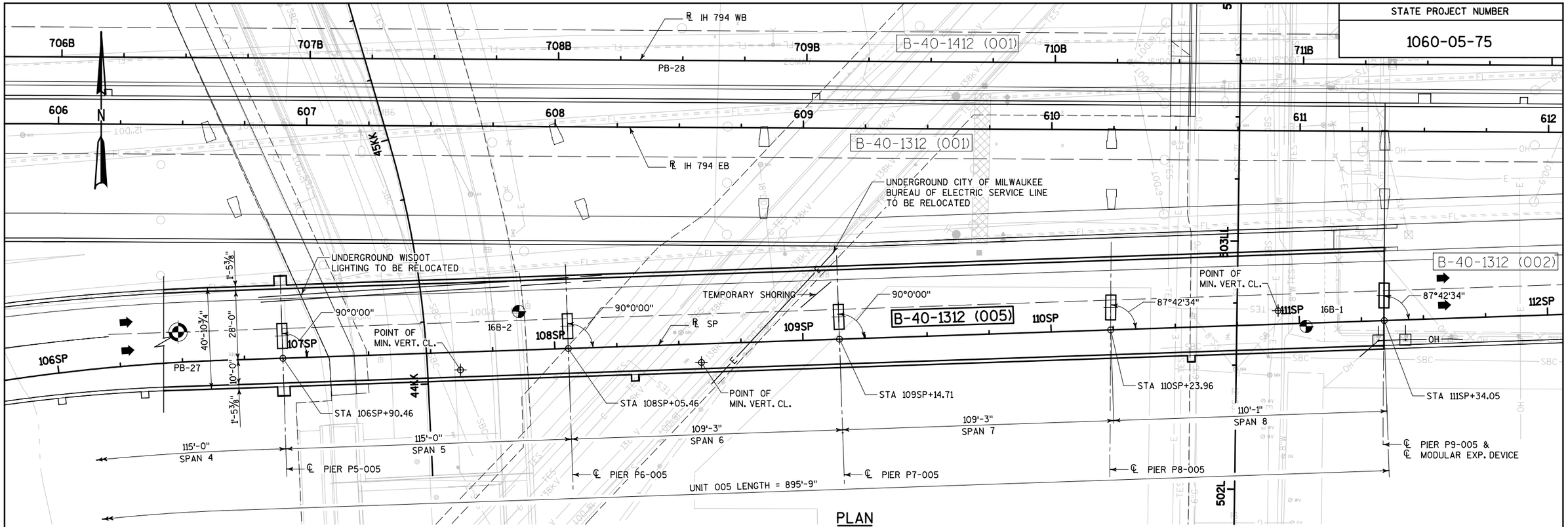
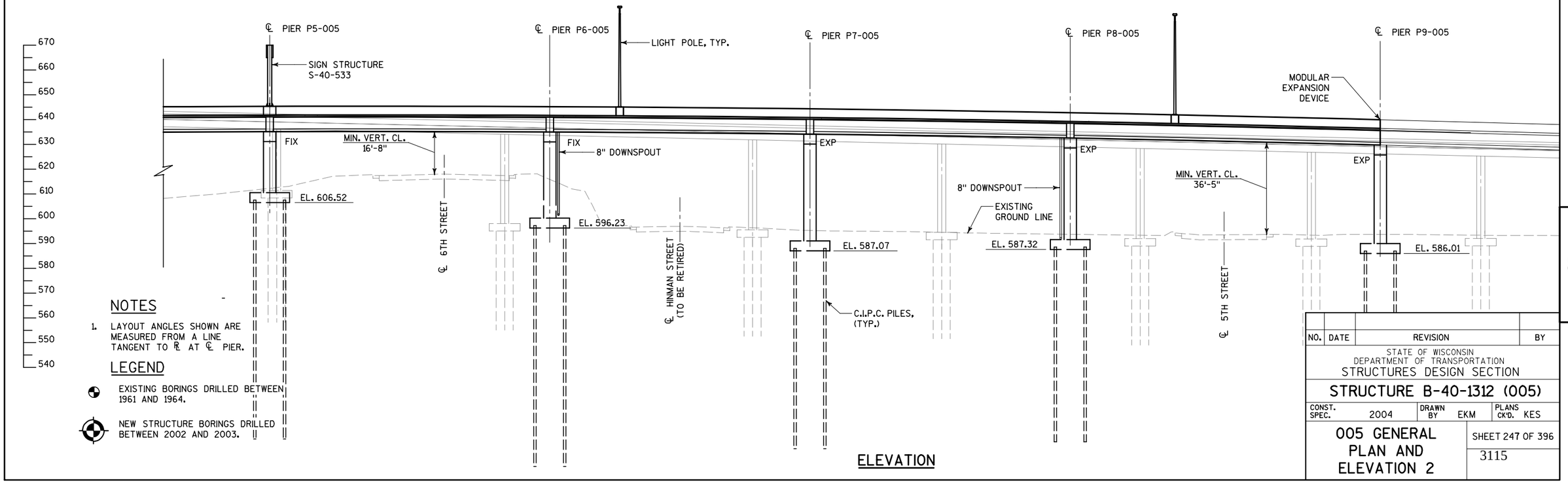
STATE PROJECT NUMBER

1060-05-75



PLAN

(UNIT 005: 8 SPAN 72" PRESTRESSED GIRDER)



ELEVATION

NOTES

1. LAYOUT ANGLES SHOWN ARE MEASURED FROM A LINE TANGENT TO ℞ AT ℄ PIER.

LEGEND

EXISTING BORINGS DRILLED BETWEEN 1961 AND 1964.

NEW STRUCTURE BORINGS DRILLED BETWEEN 2002 AND 2003.

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STRUCTURE B-40-1312 (005)

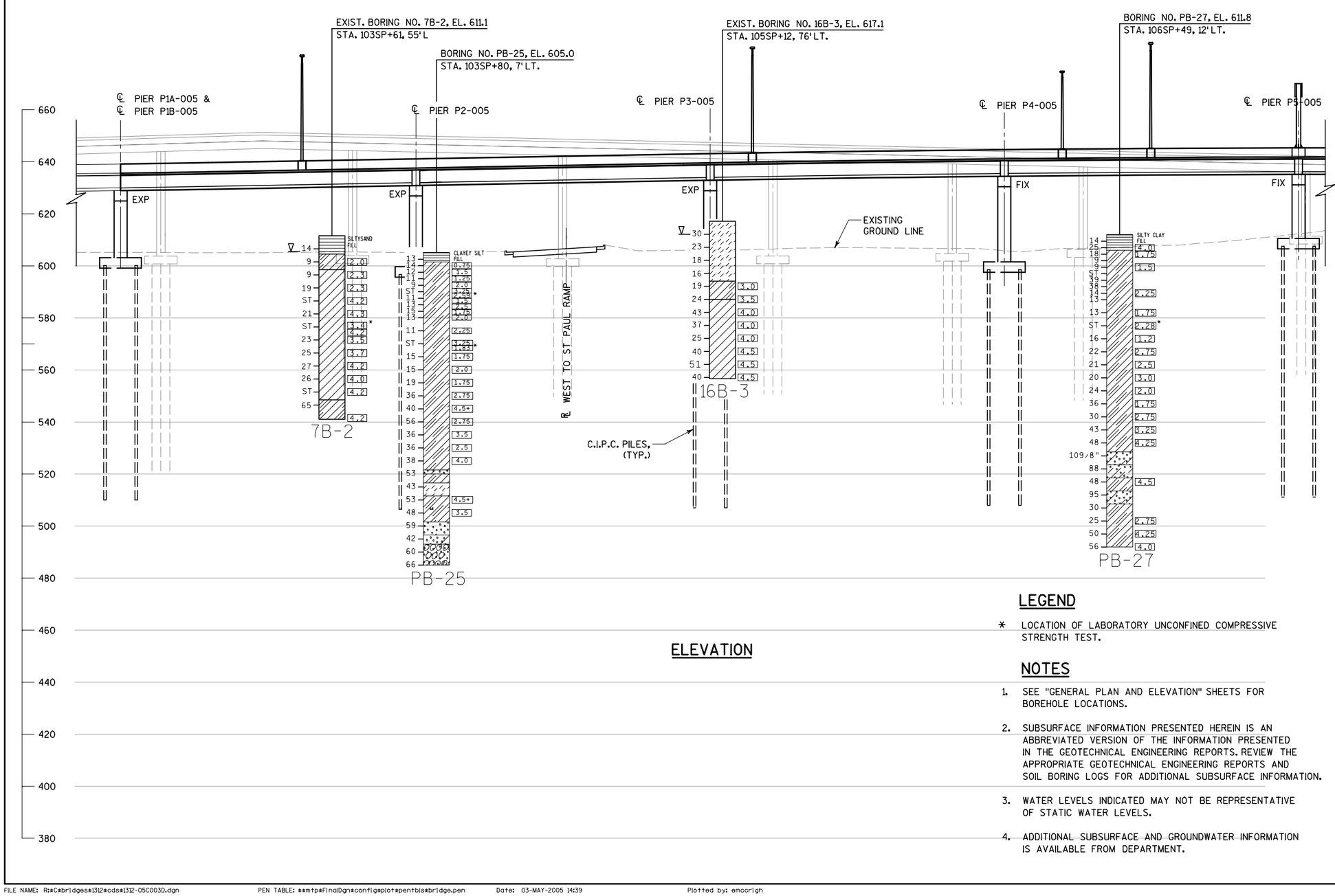
CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

005 GENERAL PLAN AND ELEVATION 2

SHEET 247 OF 396

3115

8



ELEVATION

LEGEND

* LOCATION OF LABORATORY UNCONFINED COMPRESSIVE STRENGTH TEST.

NOTES

1. SEE "GENERAL PLAN AND ELEVATION" SHEETS FOR BOREHOLE LOCATIONS.
2. SUBSURFACE INFORMATION PRESENTED HEREIN IS AN ABBREVIATED VERSION OF THE INFORMATION PRESENTED IN THE GEOTECHNICAL ENGINEERING REPORTS. REVIEW THE APPROPRIATE GEOTECHNICAL ENGINEERING REPORTS AND SOIL BORING LOGS FOR ADDITIONAL SUBSURFACE INFORMATION.
3. WATER LEVELS INDICATED MAY NOT BE REPRESENTATIVE OF STATIC WATER LEVELS.
4. ADDITIONAL SUBSURFACE AND GROUNDWATER INFORMATION IS AVAILABLE FROM DEPARTMENT.

STATE PROJECT NUMBER

1060-05-75

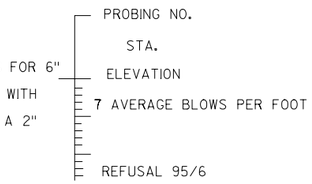
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

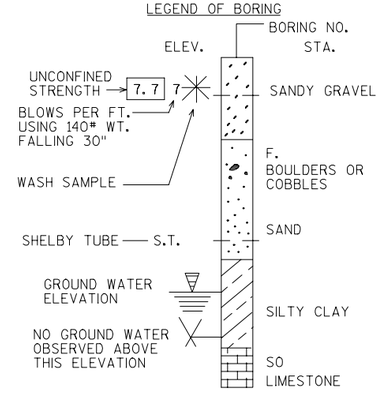
MATERIAL SYMBOLS

TOPSOIL/ FILL · SILT · SANDSTONE
SAND · PEAT · LIMESTONE
GRAVEL · CLAY · IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	2004	DRAWN BY	RWN	PLANS CK'D.	KES

SUBSURFACE EXPLORATION UNIT 005

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3116

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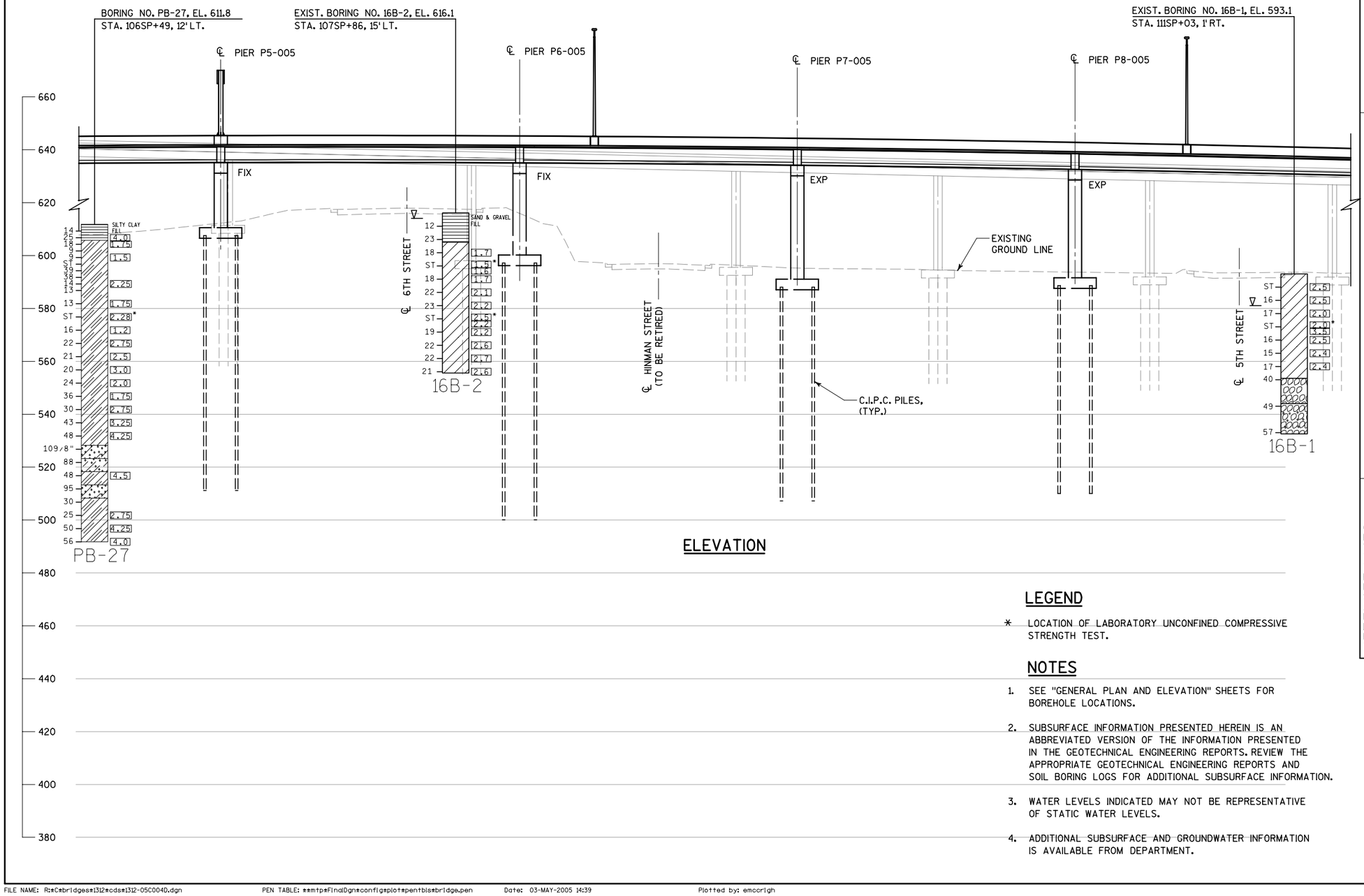

ELEVATION

LEGEND

* LOCATION OF LABORATORY UNCONFINED COMPRESSIVE STRENGTH TEST.

NOTES

1. SEE "GENERAL PLAN AND ELEVATION" SHEETS FOR BOREHOLE LOCATIONS.
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ABBREVIATIONS

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WS — WEATHERED SO — SOUND

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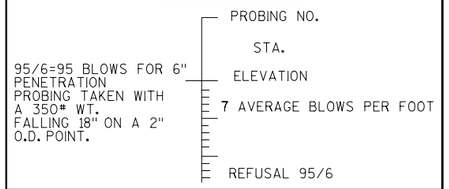
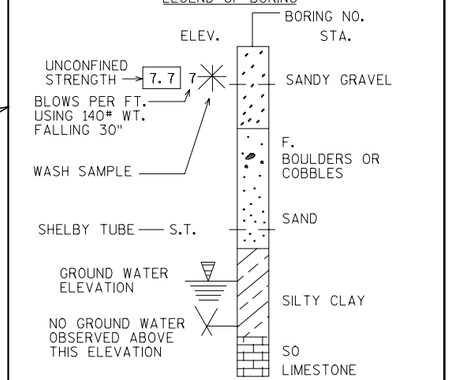
TOPSOIL/ FILL · SILT · SANDSTONE
SAND · PEAT · LIMESTONE
GRAVEL · CLAY · IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

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SUBSURFACE EXPLORATION UNIT 005

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3117

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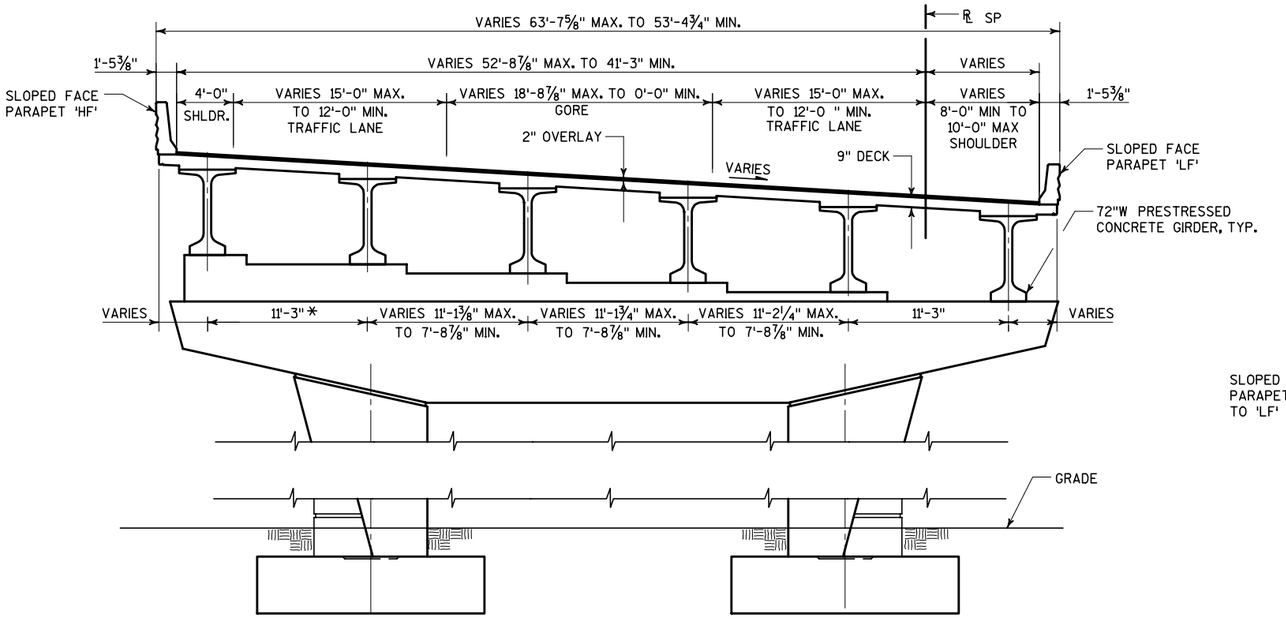
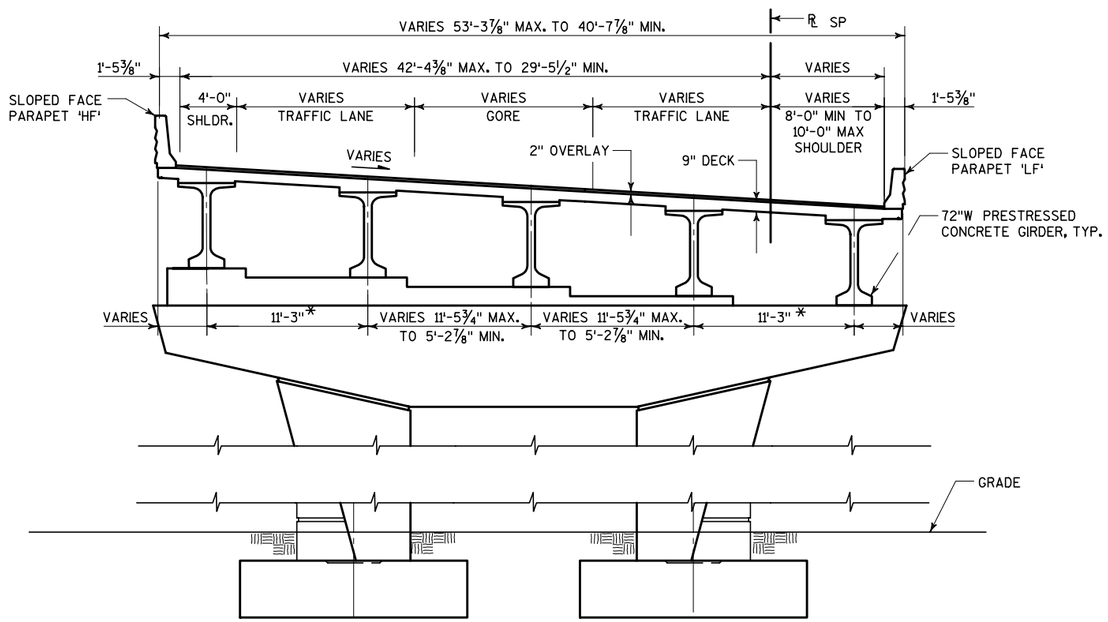


TYPICAL SECTION IN SPAN

(SPANS 1, LOOKING EAST)

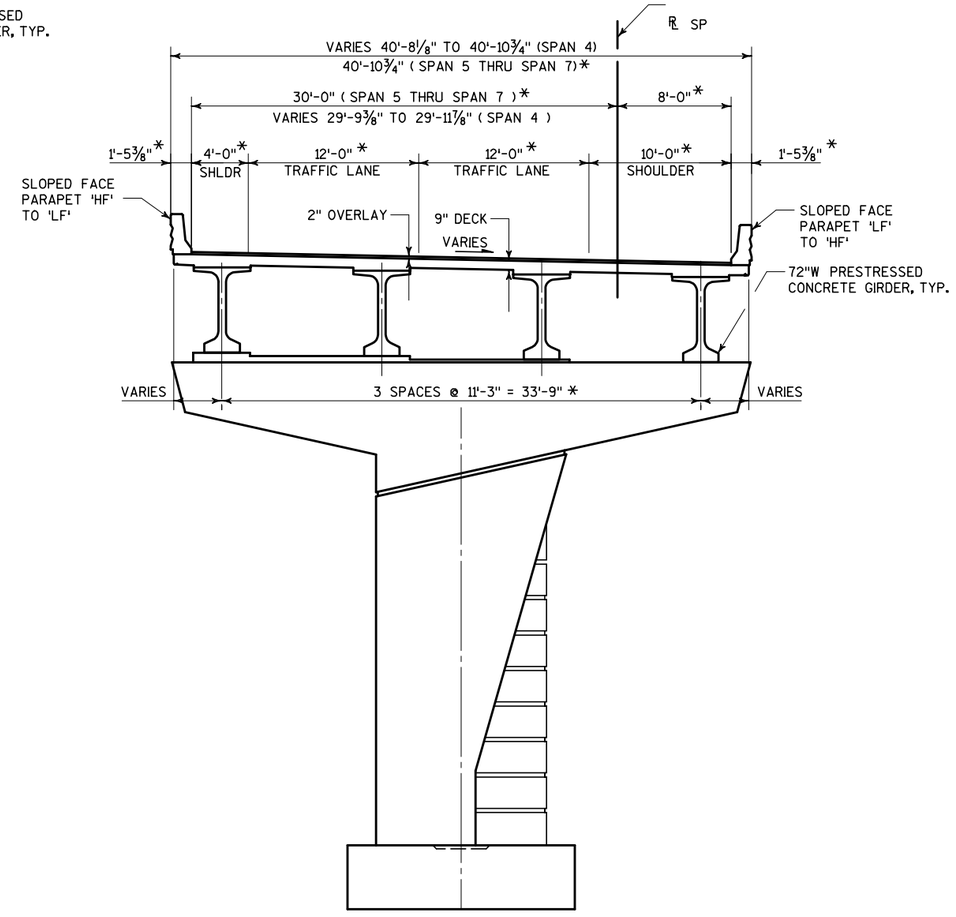
* DIMENSIONS MEASURED NORMAL TO GIRDER CENTERLINES



TYPICAL SECTION IN SPAN

(SPANS 2 AND 3, LOOKING EAST)

* DIMENSIONS MEASURED NORMAL TO GIRDER CENTERLINES



TYPICAL SECTION IN SPAN

(SPANS 4 THRU 8, LOOKING EAST)

* DIMENSIONS MEASURED NORMAL TO GIRDER CENTERLINES

NOTES

1. DIMENSIONS ARE MEASURED ALONG A LINE RADIAL TO THE ℄ UNLESS OTHERWISE NOTED.
2. FOR UTILITY INFORMATION, REFER TO DECK CROSS SECTIONS CONTAINED LATER IN THIS SET.

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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STRUCTURE B-40-1312 (005)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

TYPICAL SECTION

SHEET 250 OF 396

3118

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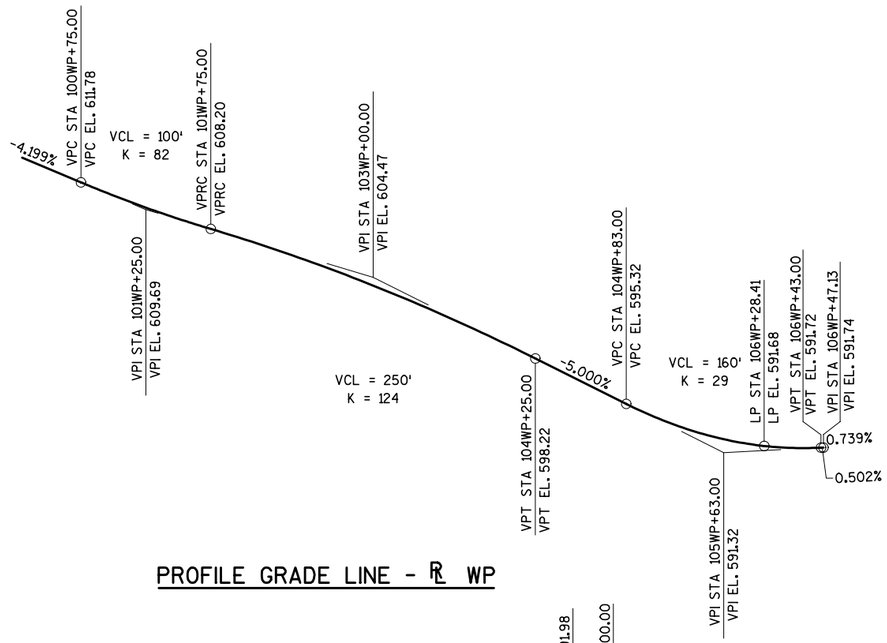
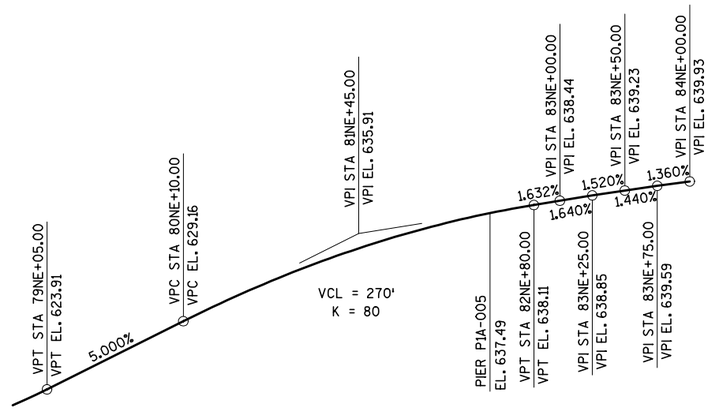
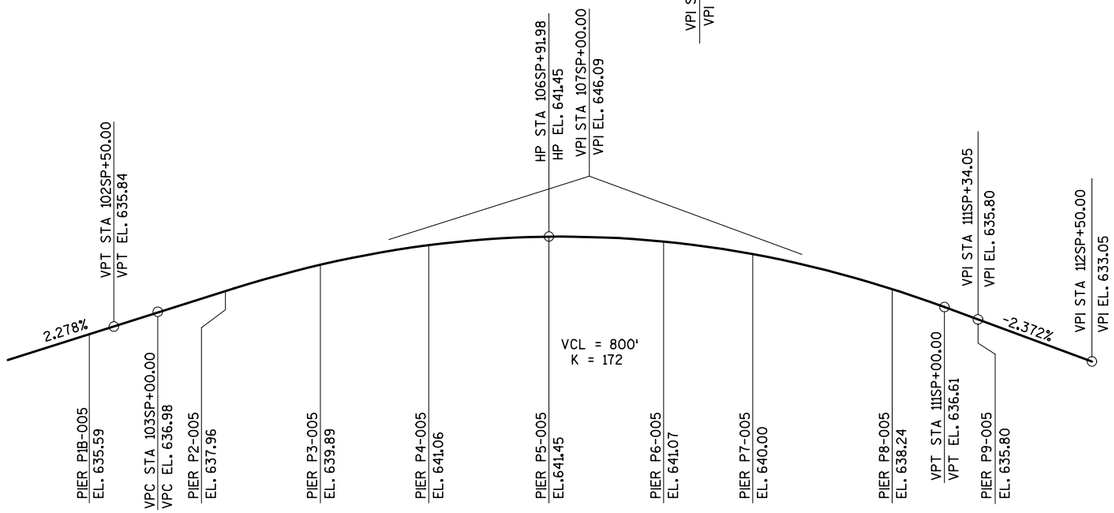
STATE PROJECT NUMBER
1060-05-75



PROFILE GRADE LINE - ℄ WP



PROFILE GRADE LINE - ℄ NE



PROFILE GRADE LINE - ℄ SP

SUBSTRUCTURE DATA

UNIT	STATION	SKEW
P1A-005 & P1B-005	STA 102SP+38.29	0° 0' 0"
P2-005	STA 103SP+45.46	0° 0' 0"
P3-005	STA 104SP+60.46	0° 0' 0"
P4-005	STA 105SP+75.46	0° 0' 0"
P4-005	STA 106SP+90.46	0° 0' 0"
P5-005	STA 106SP+90.46	0° 0' 0"
P6-005	STA 108SP+05.46	0° 0' 0"
P7-005	STA 109SP+14.71	0° 0' 0"
P8-005	STA 110SP+23.96	2° 17' 26" LHF
P9-005	STA 111SP+34.05	2° 17' 26" LHF

HORIZONTAL CURVE DATA

℄ NE

PI = STA 83NE+50.38
Δ = 20°02'41" RT
D = 6°00'00"
T = 168.76
L = 334.08
R = 954.93
E = 14.80
PCC = STA 81NE+81.62
PT = STA 85NE+15.70

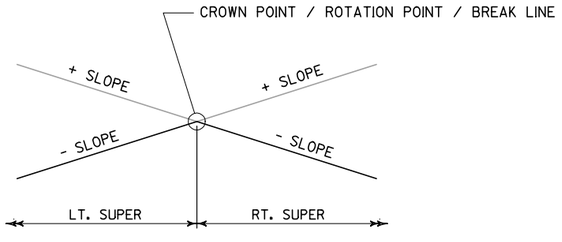
℄ SP

PI = STA 102SP+65.56
Δ = 70°38'04"
D = 7°30'00"
T = 541.25
L = 941.79
R = 763.94
E = 172.30
PCC = STA 97SP+24.32
PT = STA 106SP+66.11

PT = STA 106SP+66.11
PC = STA 112SP+31.96
L = 565.86

℄ WP

PI = STA 104WP+78.93
Δ = 76°09'27"
D = 21°00'00"
T = 213.77
L = 362.65
R = 272.84
E = 73.77
PC = STA 102WP+65.16
PT = STA 106WP+27.82



SUPERELEVATION DETAIL

SEE DECK SECTIONS FOR LOC'N OF CROWN POINT

SUPERELEVATION TABLE

		SUPERELEVATION	
	STATION	LT. SUPER (%)	RT. SUPER (%)
℄ SP	102SP+00.00	5.90	-5.90
	102SP+40.00	5.60	-5.60
	102SP+65.00	5.90	-5.90
	106SP+00.00	5.90	-5.90
	107SP+25.00	2.00	-2.00
	119SP+29.16	2.00	-2.00

NOTE THAT DECK ELEVATION IS CONTROLLED BY ℄ SP ONLY - SUPERELEVATION DATA FOR ℄ NE IS NOT REQUIRED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

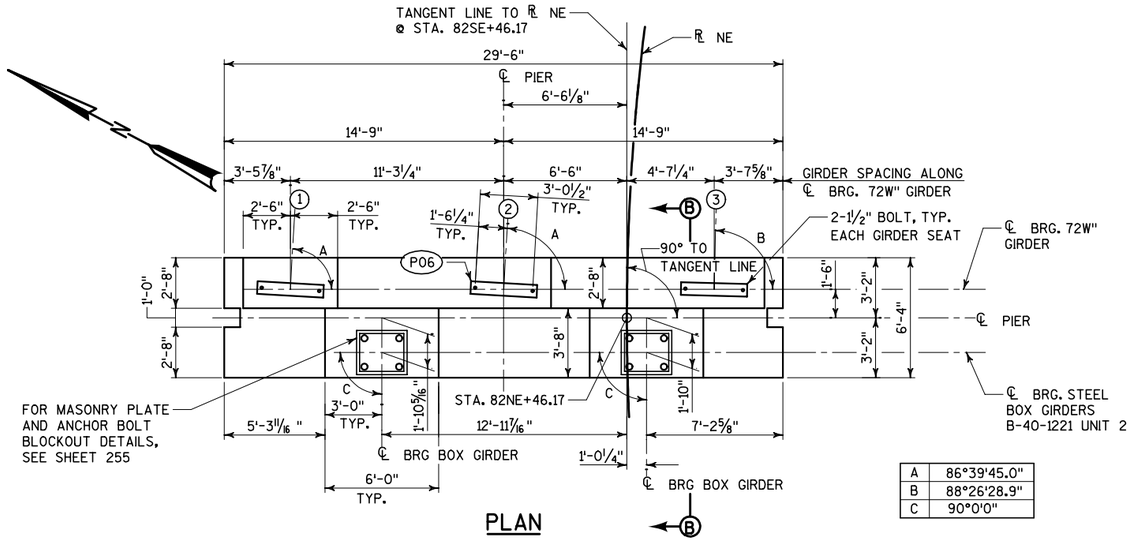
CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

ALIGNMENT

SHEET 251 OF 396
3119

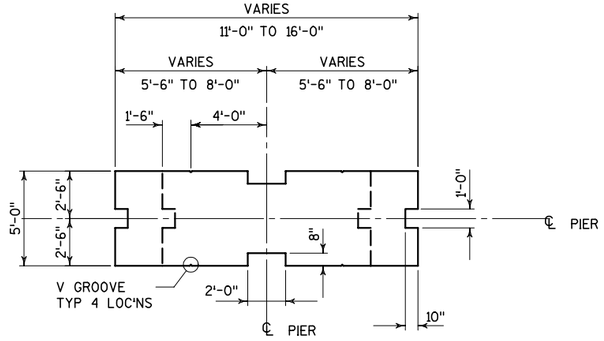
8

STATE PROJECT NUMBER
1060-05-75



A	86°39'45.0"
B	88°26'28.9"
C	90°0'0"

PLAN



SECTION A-A

LEGEND

⚠ SUGGESTED JACKING LOCATIONS FOR FUTURE BEARING REPLACEMENT. SEE B-40-1221 PLANS FOR JACKING PROVISIONS. ESTIMATED JACKING FORCE = 180 KIPS.

NOTES

1. SEE B-40-1221 PLANS FOR BOX GIRDER BEARINGS AND ANCHOR BOLT INFORMATION. CONTRACTOR SHALL ADJUST THE HEIGHT OF THE PEDESTALS AS REQUIRED TO MEET THE ACTUAL BEARING DIMENSIONS. MINIMUM PEDESTAL HEIGHT = 6".
2. SIDE FORMS FOR FRONT AND SIDE FACE RECESSES MAY BE TAPERED AT A MAXIMUM RATE OF 1 IN 10 IN ORDER TO FACILITATE FORM REMOVAL.
3. BLOCKOUT INFORMATION FOR BEARINGS AND ANCHOR BOLTS IS SCHEMATIC ONLY. CONTRACTOR SHALL COORDINATE BLOCKOUT SIZE AND NUMBER AND LOCATION OF ANCHOR BOLTS WITH THE INFORMATION GIVEN IN THE PLANS FOR STRUCTURE B-40-1122 AND WITH THE BEARING SUPPLIER.
4. ANCHOR BOLTS SHALL BE EITHER INSTALLED IN BLOCKOUTS AS SHOWN OR CAST DIRECTLY INTO THE PIER CAP / PEDESTAL. DRILLING OR CORING IN PLACE OF THE BLOCKOUTS SHOWN WILL NOT BE PERMITTED.
5. ANCHOR BOLT BLOCKOUTS SHALL BE FORMED USING CORRUGATED FORMS THAT WILL PROVIDE POSITIVE INTERLOCK BETWEEN THE PIER CAP / PEDESTAL AND THE GROUT SURROUNDING THE ANCHOR BOLTS.

(P01) 1'-2"x6'-0"x3" CONST. JOINT FORMED BY BEVELED KEYWAY, TYPICAL TOP AND BOTTOM OF ALL COLUMNS.

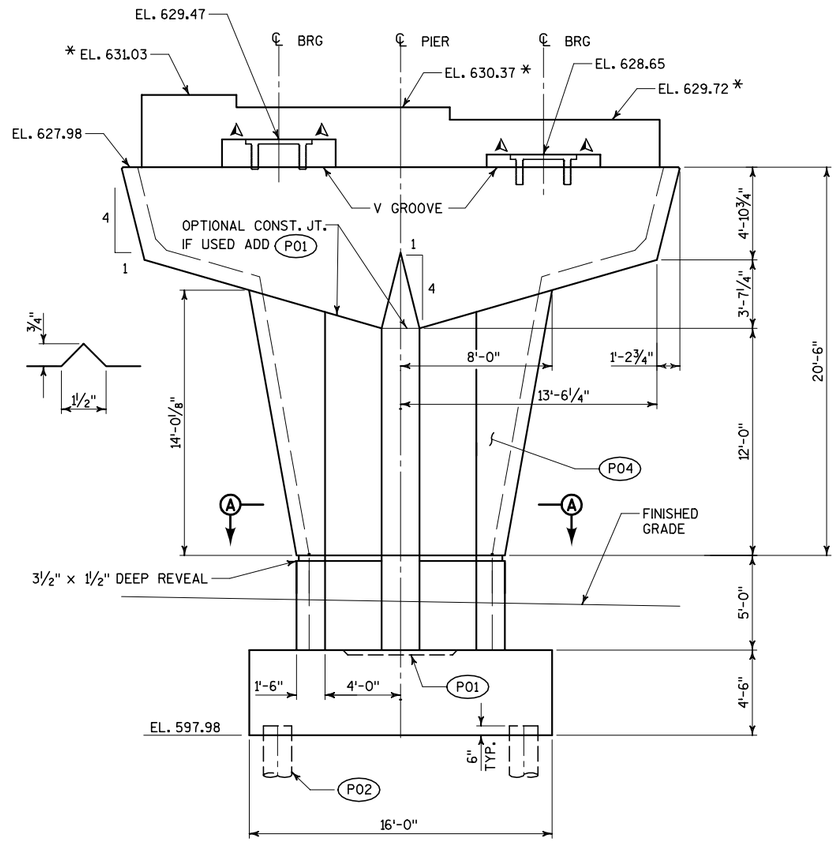
(P02) CIP 16" DIA. PILING, ESTIMATED 115' LONG & DRIVEN TO A MIN. BRG. VALUE OF 250 TONS. PILE REDRIVING REQUIRED AS PER THE SPECIAL PROVISIONS.

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 383.

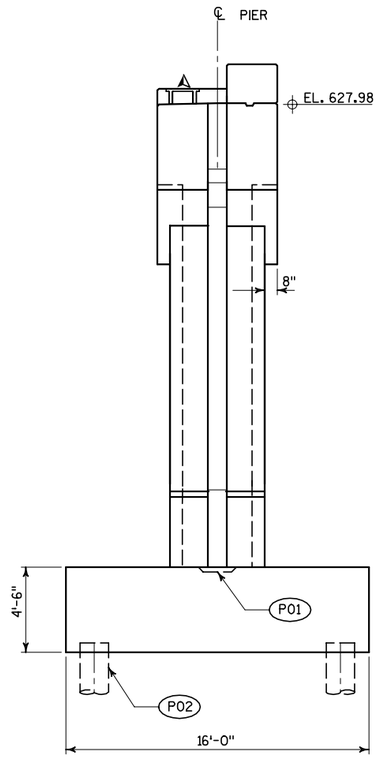
(P06) 1 1/2" THICK MASONRY PLATE, SEE "PRESTRESSED GIRDER BEARINGS" SHEET FOR DETAILS.

⬡ KEYED CONSTRUCTION JOINT FORMED BY SURFACED BEVELED 2"x6"

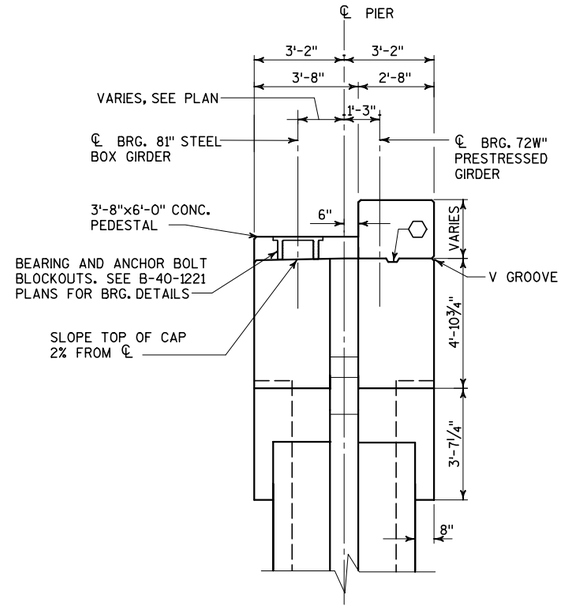
* ELEVATIONS ARE GIVEN AT THE TOP OF CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER & ℄ BRG. 72W" GIRDER



ELEVATION
(LOOKING EAST)



END ELEVATION



SECTION B-B

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P1A-005

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3120

8

STATE PROJECT NUMBER

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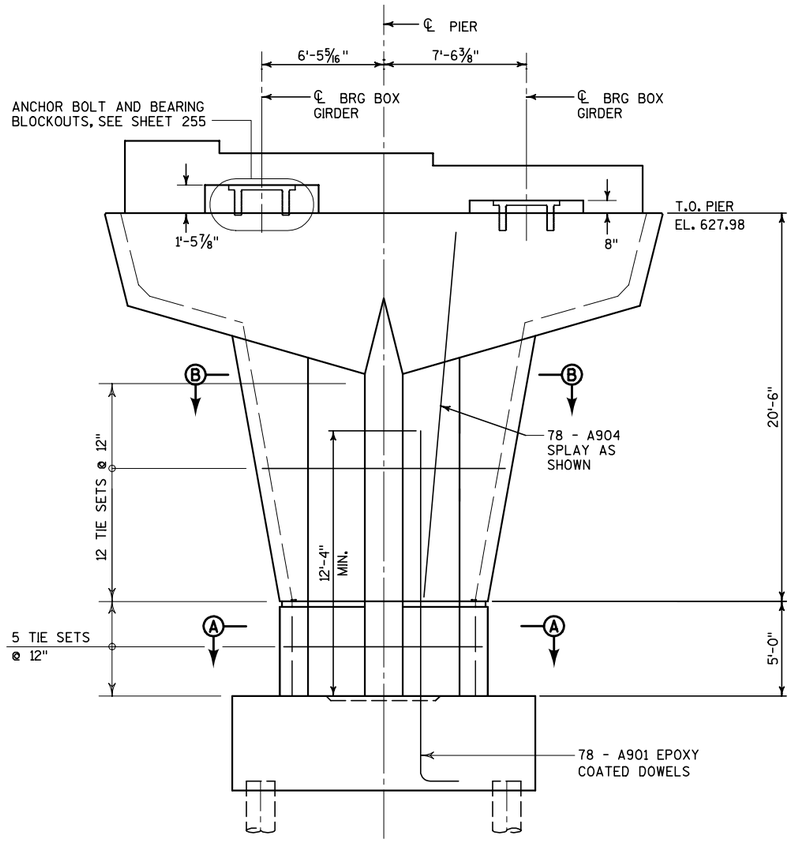
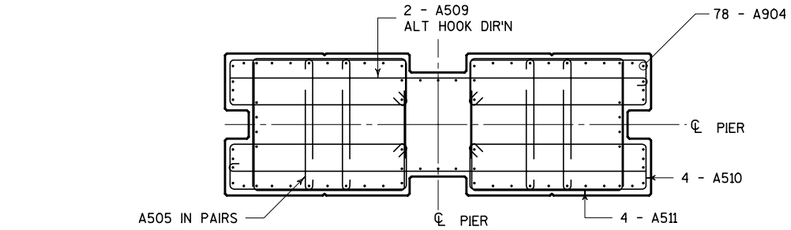


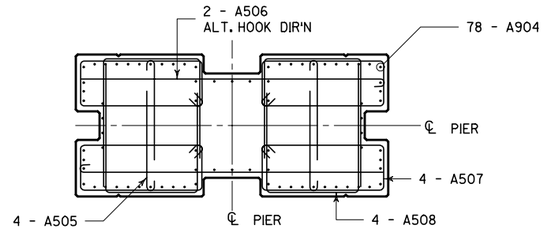
ELEVATION

(LOOKING EAST)



1 TOP SET x 6 PAIRS/SET
8 MIDDLE SETS x 4 PAIRS/SET
3 BOTTOM SETS x 2 PAIRS/SET
TOTAL = 44 PAIRS

SECTION B-B



SECTION A-A

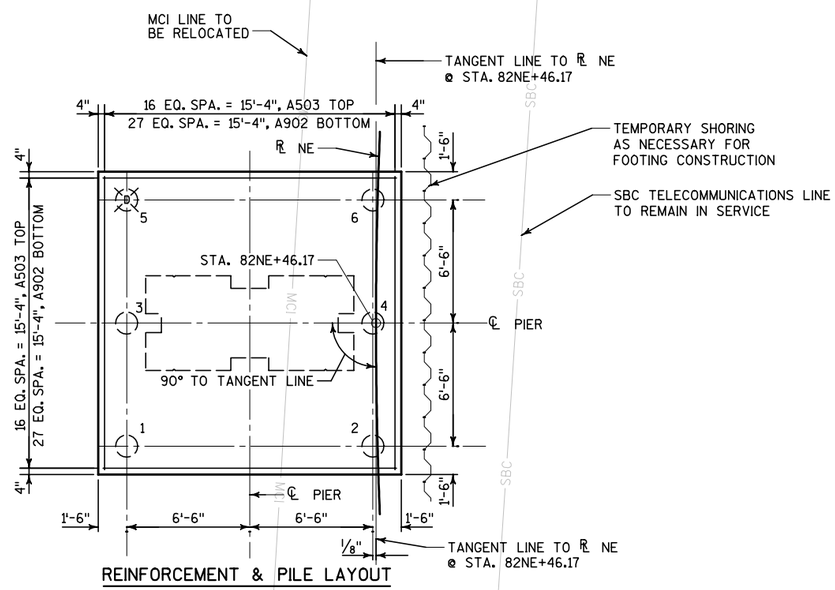
NOTES

1. THE FIRST TIE SET IN EACH POUR SECTION SHALL BE PLACED AT 6" ABOVE TOP OF PREVIOUS POUR. ADDITIONAL TIES SPACED AS SHOWN.
2. MAINTAIN MINIMUM 2" CLEAR COVER TO MAIN REINFORCEMENT AT HORIZONTAL REVEAL. MAINTAIN MINIMUM 2" CLEAR COVER TO TIES AT VERTICAL V-GROOVE LOCATIONS.
3. FOR PILE SPLICE AND PILE TIP DETAILS, SEE SHEET 396.

DYNAMIC PILE LOAD TESTING LOCATION.

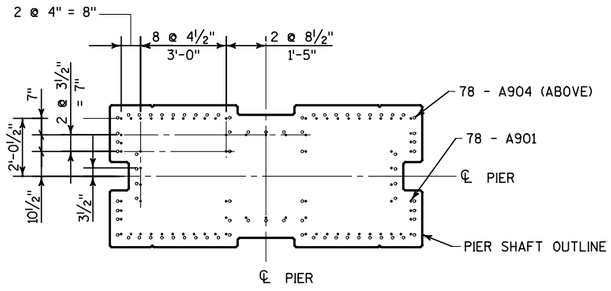
NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.



REINFORCEMENT & PILE LAYOUT

FOOTING PLAN



DOWEL PLACEMENT LAYOUT

SYMMETRICAL IN BOTH DIRECTIONS AS SHOWN

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

PIER P1A-005 REINFORCEMENT LAYOUT

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STATE PROJECT NUMBER

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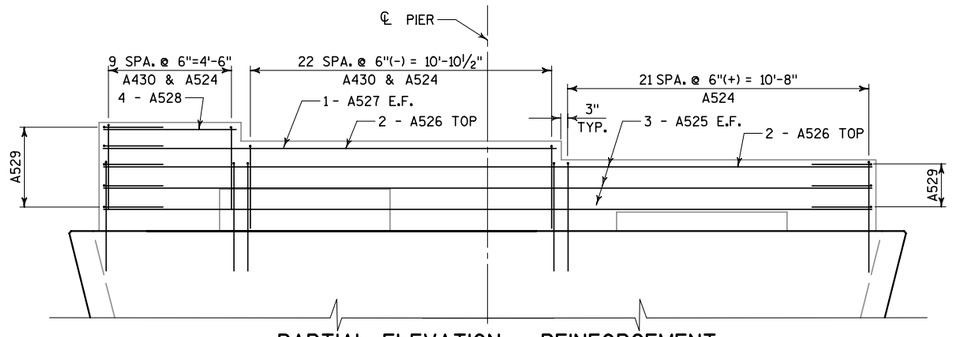
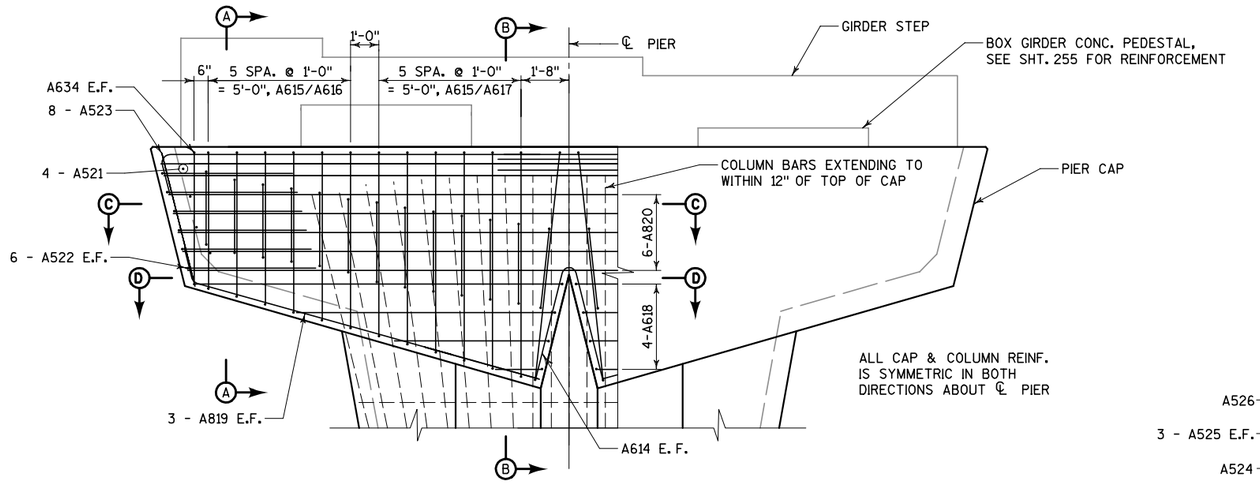
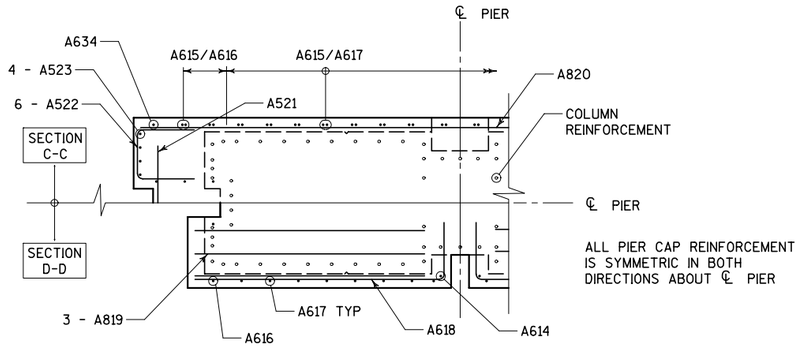


PARTIAL ELEVATION - REINFORCEMENT

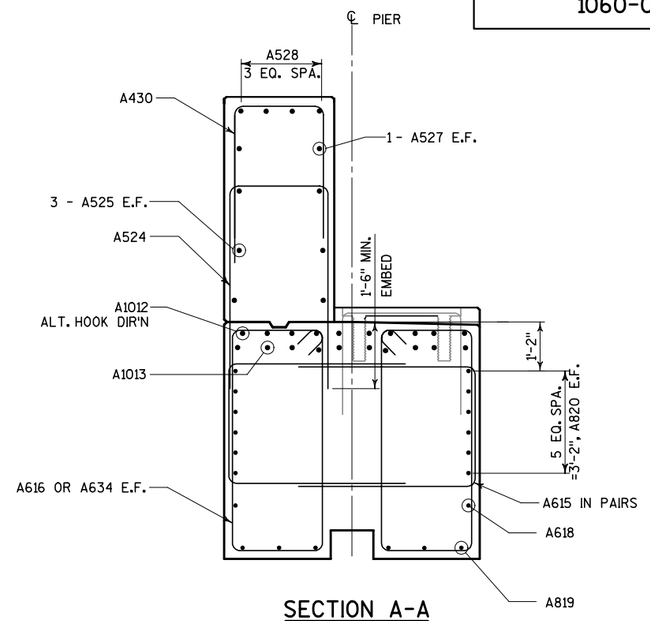
(SHOWING GIRDER STEP REINFORCEMENT)



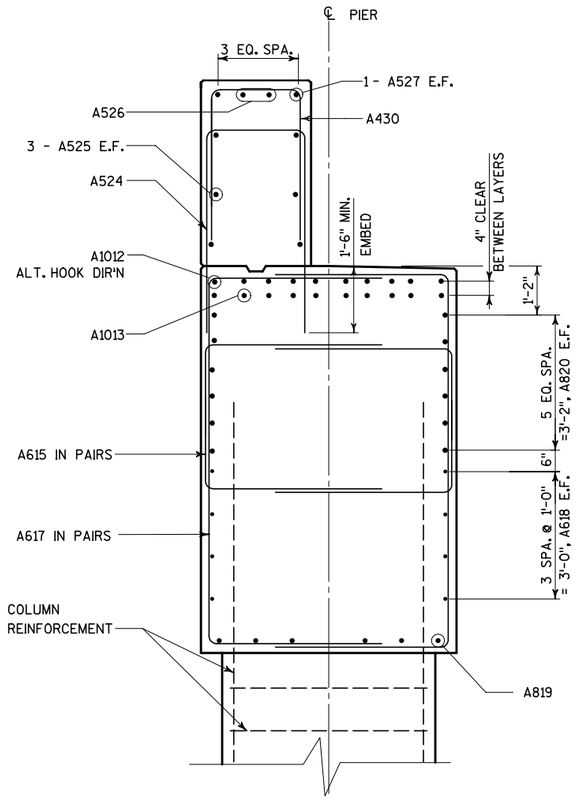
ELEVATION - REINFORCEMENT



SECTION C-C / D-D



SECTION A-A



SECTION B-B

NOTES

1. COLUMN BARS EXTENDING INTO THE CAP MAY BE MADE VERTICAL WHERE THEY ENTER THE CAP IN ORDER TO SIMPLIFY PLACEMENT OF THE PIER CAP REINFORCING CAGE.

   BARS MAY EITHER BE DETAILED AND FABRICATED WITH THE REQUIRED BEND OR THEY MAY BE BENT VERTICAL IN THE FIELD AFTER THE POUR BELOW HAS BEEN COMPLETED.

2. BARS EXTENDING THE FULL WIDTH OF THE CAP MAY BE SPLICED AT CENTERLINE OF PIER. SEE GENERAL NOTES FOR REQUIRED SPLICE LENGTHS.

3. ALL CAP & COLUMN REINFORCEMENT IS SYMMETRIC IN BOTH DIRECTIONS ABOUT ℄ PIER. GIRDER STEP REINFORCEMENT IS NOT SYMMETRIC.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

PIER P1A-005 CAP REINFORCEMENT LAYOUT

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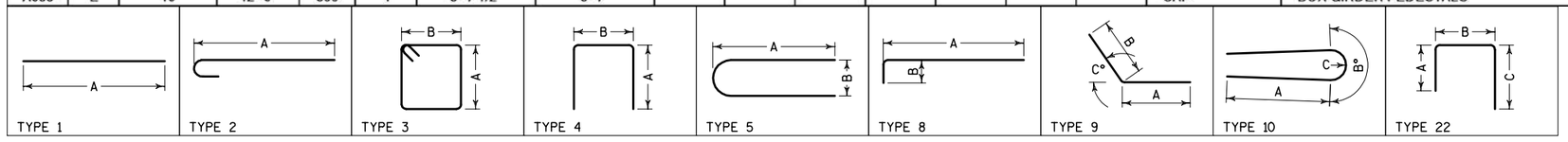
BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
A901	E	78	17'-11"	4752	8	1'-7"	16'-7"								FOOTING	DOWEL
A902		56	15'-6"	2951	1	15'-6"									FOOTING	BOTTOM
A503		34	15'-6"	550	1	15'-6"									FOOTING	TOP
A904	E	78	19'-6"	5171	1	19'-6"									COLUMN	VERTICAL
A505	E	108	4'-1"	460	2	3'-6"									COLUMN	TIES
A506	E	10	11'-3"	117	2	10'-8"									COLUMN	TIES
A507	E	20	11'-4"	236	3	1'-5"	3'-11"								COLUMN	TIES
A508	E	20	11'-0"	229	22	3'-6"	3'-3"	4'-6"							COLUMN	TIES
A509	E	2 series of 12	11'-5" to 15'- 3 3/4"	335	2	10'-10" to 14'-8 3/4" by 4 1/4"									COLUMN	TIES. BUNDLE AND TAG EACH SERIES SEPARATELY
A510	E	4 series of 12	11'-8" to 15'-6 1/2"	681	3	1'-5"	4'-1" to 6'-0 3/4" by 2 1/8"								COLUMN	TIES. BUNDLE AND TAG EACH SERIES SEPARATELY
A511	E	4 series of 12	11'-2" to 13'-1 3/8"	608	22	3'-6"	3'-5" to 5'-4 3/8" by 2 1/8"	4'-6"							COLUMN	TIES. BUNDLE AND TAG EACH SERIES SEPARATELY
A1012	E	20	23'-8"	2037	9	2'-0"	22'-0"	105°							CAP	TOP BARS
A1013	E	20	22'-0"	1893	1	22'-0"									CAP	TOP BARS - LAYER 2
A614	E	2	9'-5"	28	10	4'-0"	152°	6"							CAP	SIDES
A615	E	52	11'-1"	866	4	4'-4"	2'-9"								CAP	STIRRUPS
A616	E	4 series of 6	14'-10" to 17'-9"	587	3	4'-9" to 6'-2 1/2" by 3 1/2"	2'-3"								CAP	STIRRUPS. BUNDLE AND TAG EACH SERIES SEPARATELY
A617	E	4 series of 7	14'-10" to 16'-7"	660	4	4'-4"	6'-6" to 8'-3" by 3 1/2"								CAP	STIRRUPS. BUNDLE AND TAG EACH SERIES SEPARATELY
A618	E	4 series of 4	3'-11" to 14'-11"	226	8	2'-1" to 13'-1" by 3'-8"	2'-0"								CAP	SIDES. BUNDLE AND TAG EACH SERIES SEPARATELY
A819	E	12	14'-7"	467	9	12'-8"	2'-0"	60°							CAP	BOTTOM
A820	E	2 series of 6	28'-7" to 26'-7"	883	1	28'-7" to 26'-7" by $4^3/_4$"									CAP	SIDES. BUNDLE AND TAG EACH SERIES SEPARATELY
A521	E	8	4'-0"	33	1	4'-0"									CAP	END HORIZONTALS
A522	E	24	5'-10"	146	4	2'-0"	2'-1"								CAP	END HORIZONTALS
A523	E	16	4'-6"	75	1	4'-6"									CAP	END VERTICALS
A524	E	55	8'-2"	468	4	3'-1"	2'-3"								CAP	GIRDER STEP STIRRUPS
A525	E	6	27'-0"	169	1	27'-0"									CAP	GIRDER STEP SIDES
A526	E	4	12'-6"	52	1	12'-6"									CAP	GIRDER STEP TOP
A527	E	2	16'-0"	33	1	15'-9"									CAP	GIRDER STEP SIDES
A528	E	4	4'-8"	19	1	4'-8"									CAP	GIRDER STEP SIDES & TOP
A529	E	8	5'-8"	47	4	1'-11"	2'-1"								CAP	GIRDER STEP ENDS
A430	E	33	6'-3"	138	4	2'-1"	2'-3"								CAP	GIRDER STEP STIRRUPS
A631	E	12	10'-9"	194	4	4'-0"	3'-1"								CAP	BOX GIRDER PEDESTALS
A632	E	24	10'-2"	366	4	3'-7 1/2"	3'-3"								CAP	BOX GIRDER PEDESTALS
A633	E	16	12'-6"	300	4	3'-7 1/2"	5'-7"								CAP	BOX GIRDER PEDESTALS



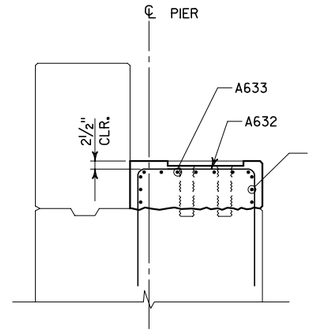
TOTAL NON-EPOXY REINFORCEMENT WT (LB)	3080
TOTAL EPOXY REINFORCEMENT WT (LB)	23730

STATE PROJECT NUMBER

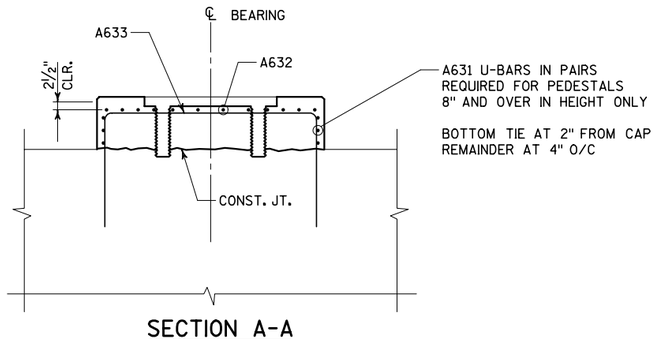
1060-05-75

NOTES

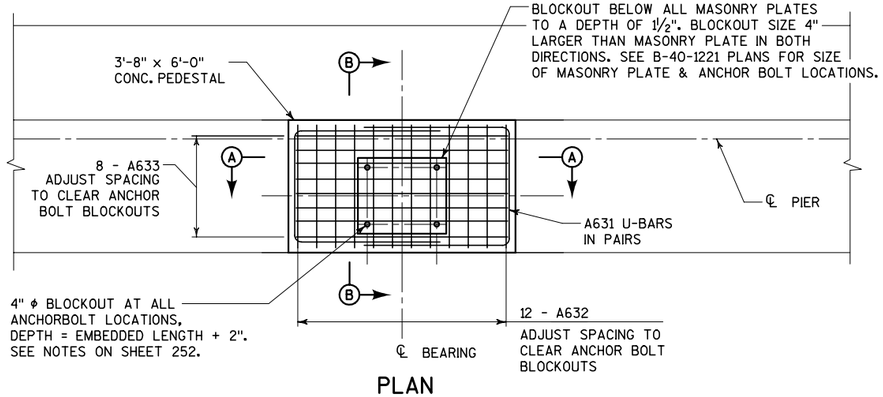
1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.



SECTION B-B



SECTION A-A



PLAN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P1A-005
REINF. SCHEDULE & BEARING PEDESTAL

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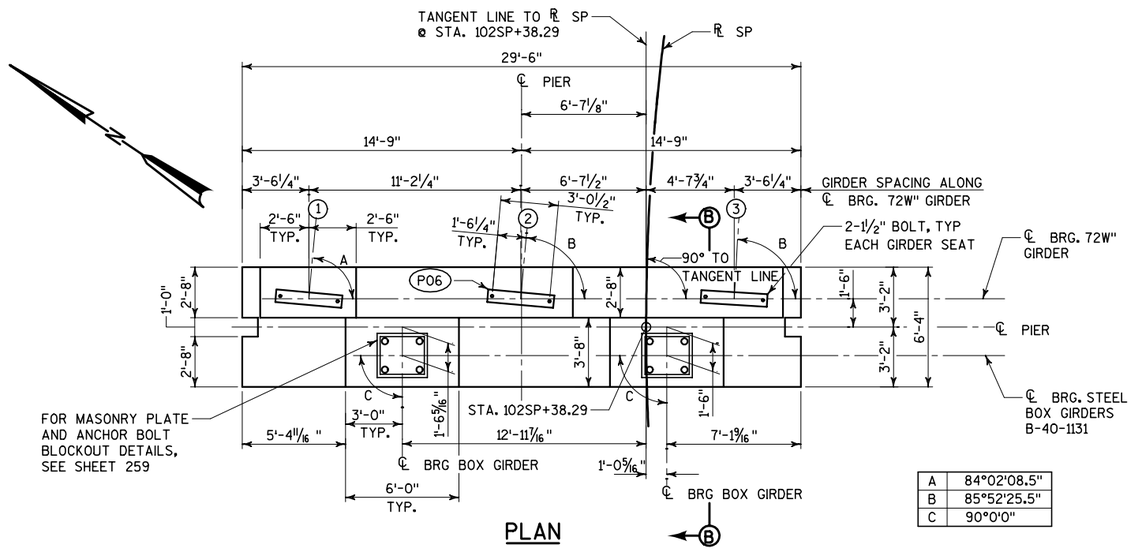
3123

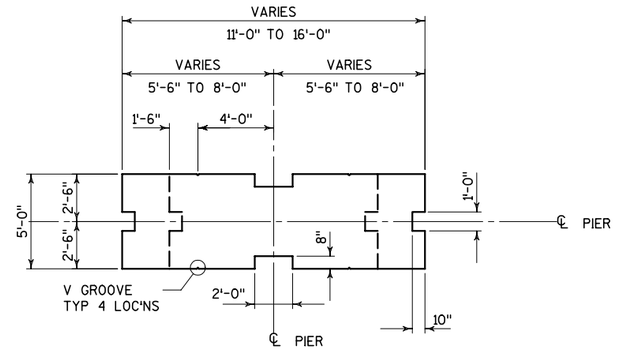
8

STATE PROJECT NUMBER
1060-05-75

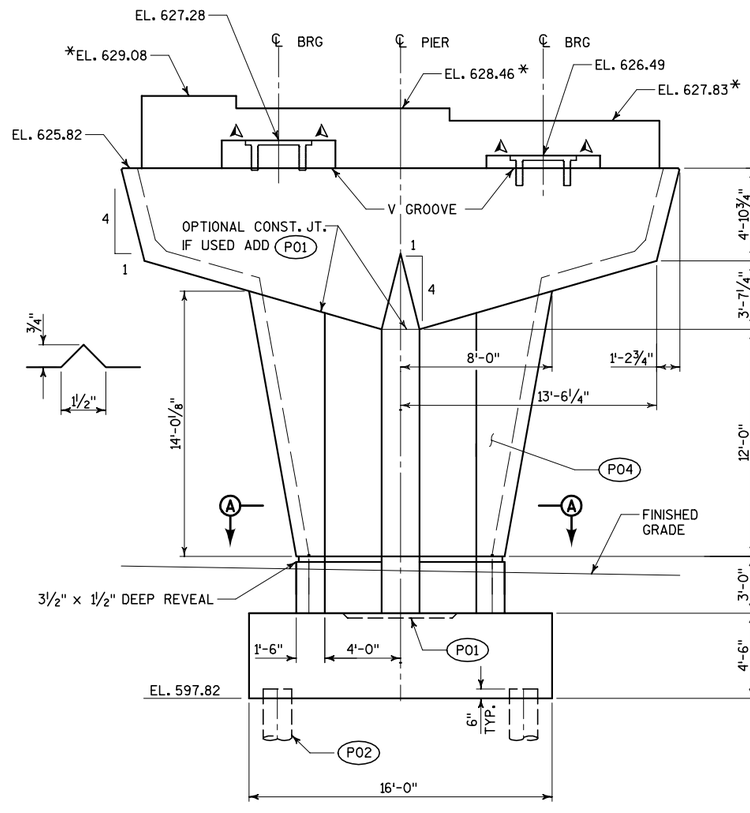


A	84°02'08.5"
B	85°52'25.5"
C	90°0'0"

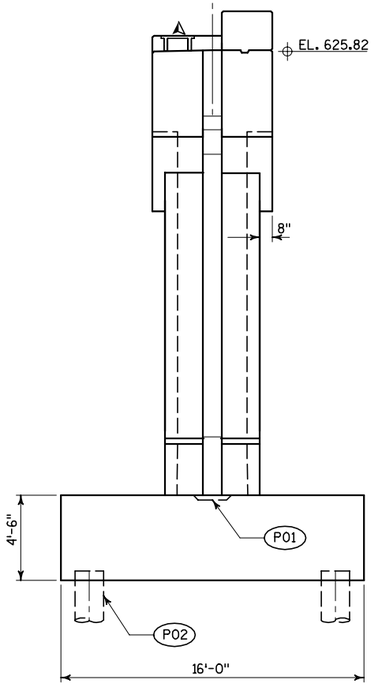
PLAN



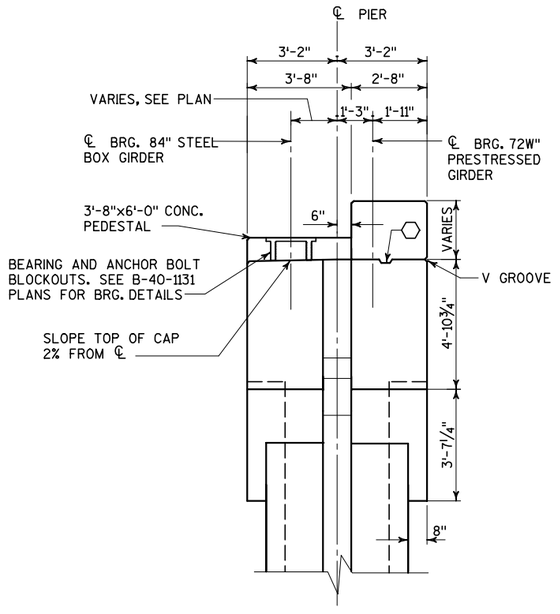
SECTION A-A



ELEVATION
(LOOKING EAST)



END ELEVATION



SECTION B-B

LEGEND

⚠ SUGGESTED JACKING LOCATIONS FOR FUTURE BEARING REPLACEMENT. SEE B-40-1131 PLANS FOR JACKING PROVISIONS. ESTIMATED JACKING FORCE = 180 KIPS.

NOTES

1. SEE B-40-1131 PLANS FOR BOX GIRDER BEARINGS AND ANCHOR BOLT INFORMATION. CONTRACTOR SHALL ADJUST THE HEIGHT OF THE PEDESTALS AS REQUIRED TO MEET THE ACTUAL BEARING DIMENSIONS. MINIMUM PEDESTAL HEIGHT = 6".
2. SIDE FORMS FOR FRONT AND SIDE FACE RECESSES MAY BE TAPERED AT A MAXIMUM RATE OF 1 IN 10 IN ORDER TO FACILITATE FORM REMOVAL.
3. BLOCKOUT INFORMATION FOR BEARINGS AND ANCHOR BOLTS IS SCHEMATIC ONLY. CONTRACTOR SHALL COORDINATE BLOCKOUT SIZE AND NUMBER AND LOCATION OF ANCHOR BOLTS WITH THE INFORMATION GIVEN IN THE PLANS FOR STRUCTURE B-40-1131 AND WITH THE BEARING SUPPLIER.
4. ANCHOR BOLTS SHALL BE EITHER INSTALLED IN BLOCKOUTS AS SHOWN OR CAST DIRECTLY INTO THE PIER CAP / PEDESTAL. DRILLING OR CORING IN PLACE OF THE BLOCKOUTS SHOWN WILL NOT BE PERMITTED.
5. ANCHOR BOLT BLOCKOUTS SHALL BE FORMED USING CORRUGATED FORMS THAT WILL PROVIDE POSITIVE INTERLOCK BETWEEN THE PIER CAP / PEDESTAL AND THE GROUT SURROUNDING THE ANCHOR BOLTS.

(P01) 1'-2"x6'-0"x3" CONST. JOINT FORMED BY BEVELED KEYWAY, TYPICAL TOP AND BOTTOM OF ALL COLUMNS.

(P02) CIP 16" DIA. PILING, ESTIMATED 115' LONG & DRIVEN TO A MIN. BRG. VALUE OF 225 TONS. PILE REDRIVING REQUIRED AS PER THE SPECIAL PROVISIONS.

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 383.

(P06) 1½" THICK MASONRY PLATE, SEE "PRESTRESSED GIRDER BEARINGS" SHEET FOR DETAILS.

⬡ KEYED CONSTRUCTION JOINT FORMED BY SURFACED BEVELED 2"x6"

* ELEVATIONS ARE GIVEN AT THE TOP OF CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER & ℄ BRG. 72W" GIRDER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

PIER P1B-005

SHEET 256 OF 396

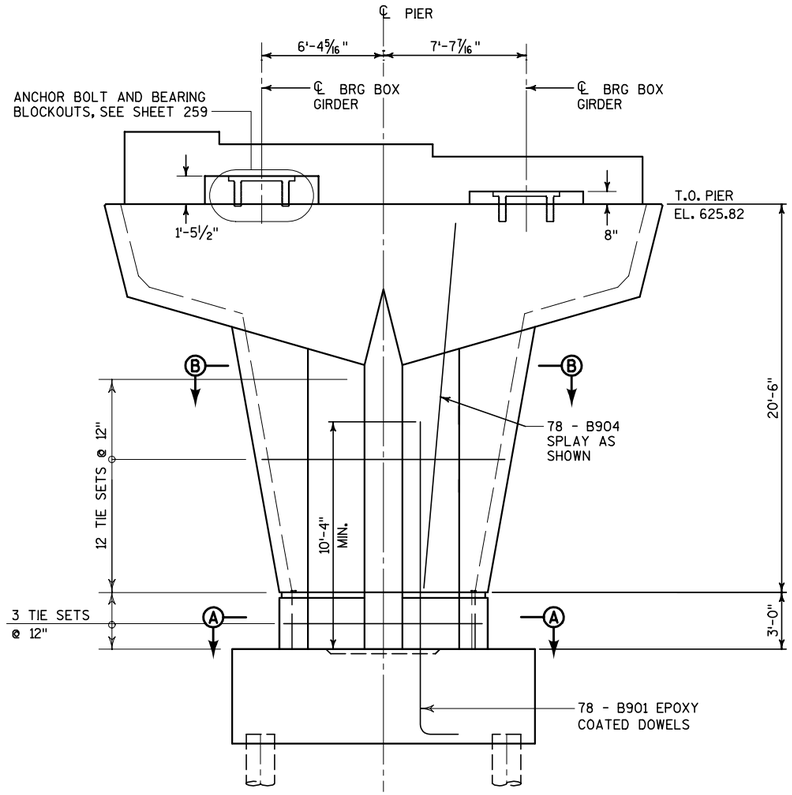
3124

8

FILE NAME: R:\C\bridges\1312\cds\1312-05C011D.dgn PEN TABLE: \\mtp\FinalDgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:40 Plotted by: emccrigh

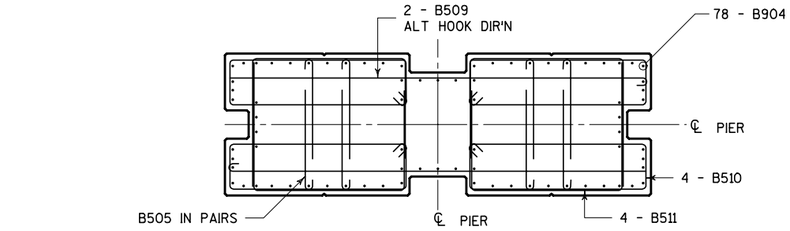
STATE PROJECT NUMBER

1060-05-75



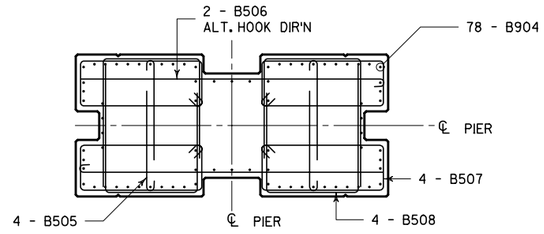
ELEVATION

(LOOKING EAST)



1 TOP SET x 6 PAIRS/SET
8 MIDDLE SETS x 4 PAIRS/SET
3 BOTTOM SETS x 2 PAIRS/SET
TOTAL = 44 PAIRS

SECTION B-B



SECTION A-A

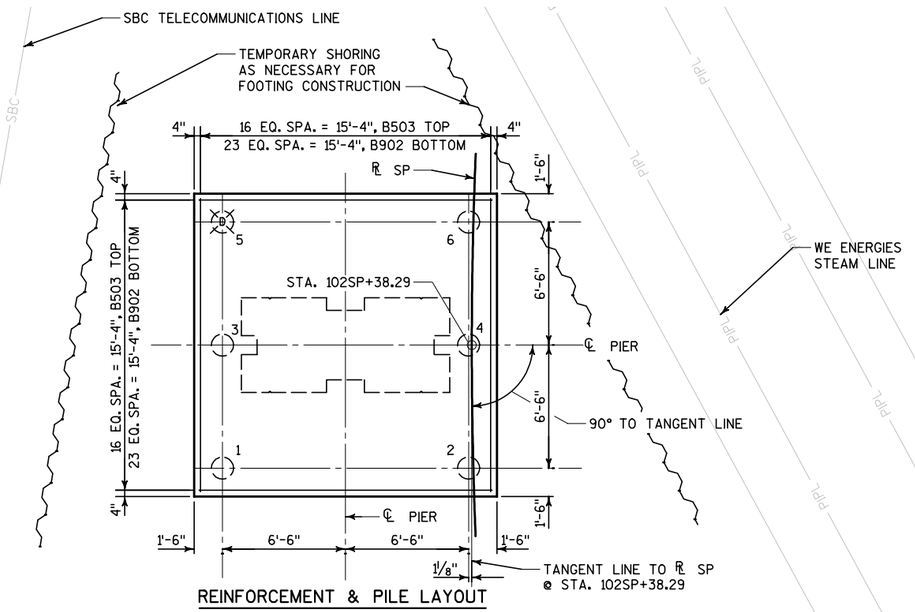
NOTES

1. THE FIRST TIE SET IN EACH POUR SECTION SHALL BE PLACED AT 6" ABOVE TOP OF PREVIOUS POUR. ADDITIONAL TIES SPACED AS SHOWN.
2. MAINTAIN MINIMUM 2" CLEAR COVER TO MAIN REINFORCEMENT AT HORIZONTAL REVEAL. MAINTAIN MINIMUM 2" CLEAR COVER TO TIES AT VERTICAL V-GROOVE LOCATIONS.
3. FOR PILE SPLICE AND PILE TIP DETAILS, SEE SHEET 396.

D DYNAMIC PILE LOAD TESTING LOCATION.

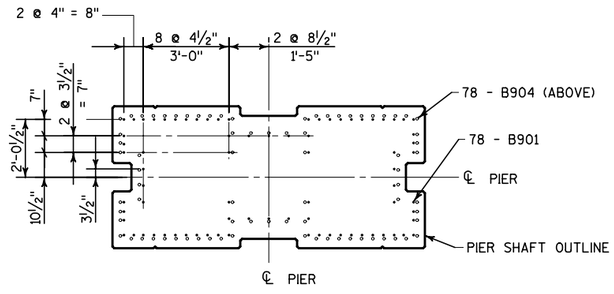
NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.



REINFORCEMENT & PILE LAYOUT

FOOTING PLAN



DOWEL PLACEMENT LAYOUT

SYMMETRICAL IN BOTH DIRECTIONS AS SHOWN

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

PIER P1B-005 REINFORCEMENT LAYOUT

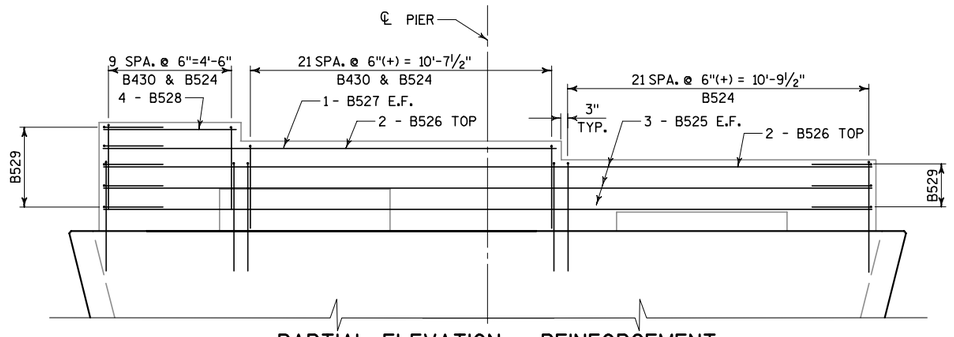
SHEET 257 OF 396

3125

FILE NAME: R:\C\bridges\1312\cds\1312-05C012D.dgn PEN TABLE: \\mtp\FindDgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:40 Plotted by: emccrigh

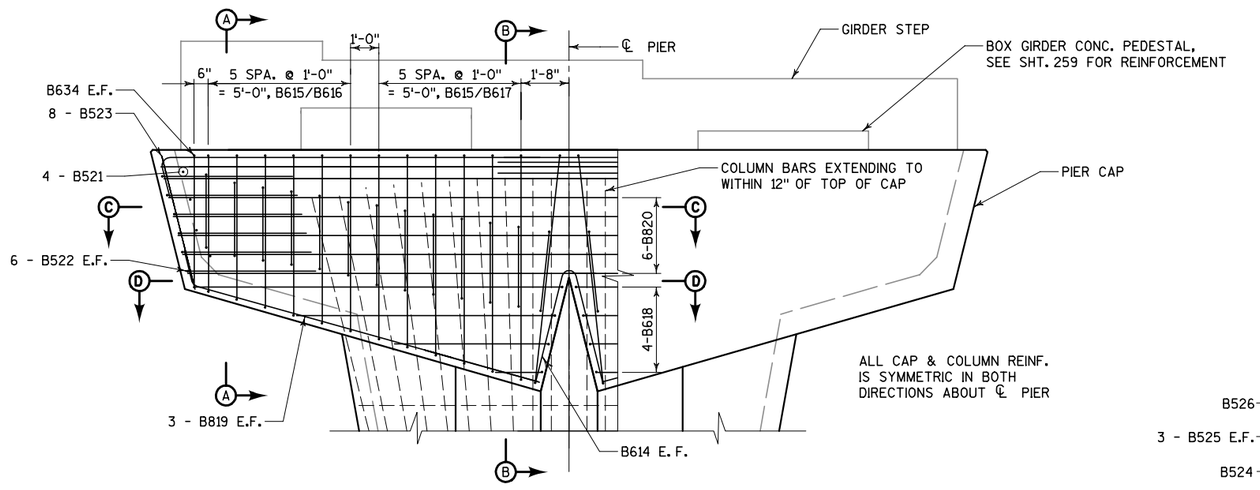
STATE PROJECT NUMBER

1060-05-75

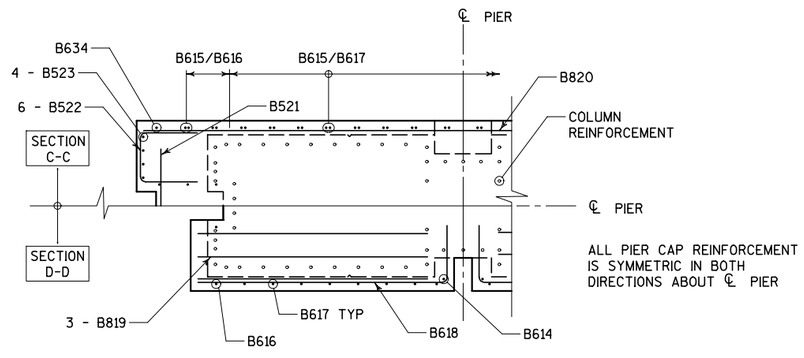


PARTIAL ELEVATION - REINFORCEMENT

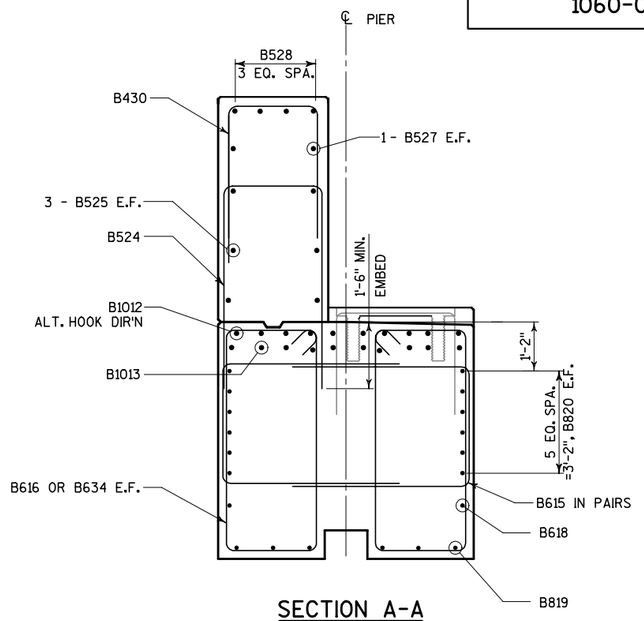
(SHOWING GIRDER STEP REINFORCEMENT)



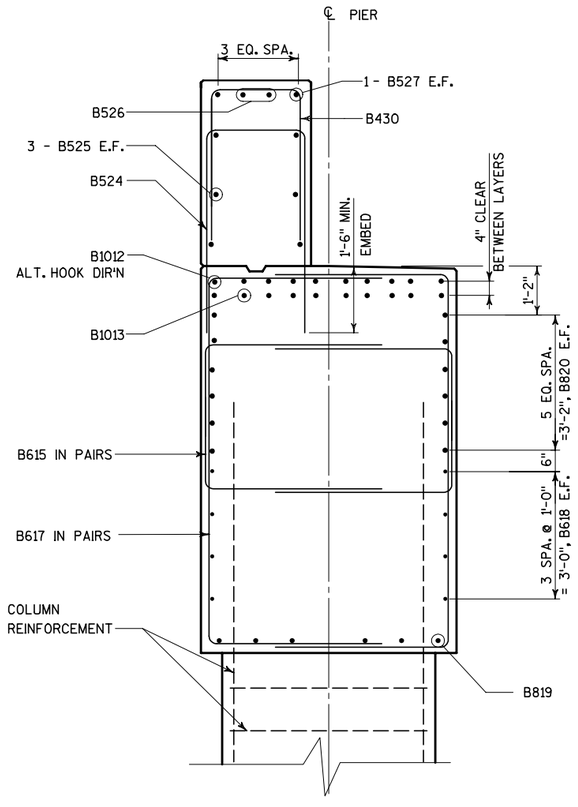
ELEVATION - REINFORCEMENT



SECTION C-C / D-D



SECTION A-A



SECTION B-B

NOTES

1. COLUMN BARS EXTENDING INTO THE CAP MAY BE MADE VERTICAL WHERE THEY ENTER THE CAP IN ORDER TO SIMPLIFY PLACEMENT OF THE PIER CAP REINFORCING CAGE.

   BARS MAY EITHER BE DETAILED AND FABRICATED WITH THE REQUIRED BEND OR THEY MAY BE BENT VERTICAL IN THE FIELD AFTER THE POUR BELOW HAS BEEN COMPLETED.
2. BARS EXTENDING THE FULL WIDTH OF THE CAP MAY BE SPLICED AT CENTERLINE OF PIER. SEE GENERAL NOTES FOR REQUIRED SPLICE LENGTHS.
3. ALL CAP & COLUMN REINFORCEMENT IS SYMMETRIC IN BOTH DIRECTIONS ABOUT ℄ PIER. GIRDER STEP REINFORCEMENT IS NOT SYMMETRIC.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P1B-005 CAP REINFORCEMENT LAYOUT

SHEET 258 OF 396

3126

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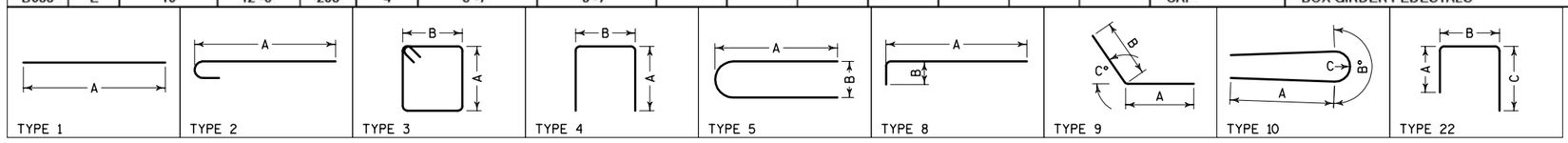
BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
B901	E	78	15'-11"	4221	8	1'-7"	14'-7"								FOOTING	DOWEL
B902		48	15'-6"	2530	1	15'-6"									FOOTING	BOTTOM
B503		34	15'-6"	550	1	15'-6"									FOOTING	TOP
B904	E	78	19'-6"	5171	1	19'-6"									COLUMN	VERTICAL
B505	E	100	4'-1"	426	2	3'-6"									COLUMN	TIES
B506	E	6	11'-3"	70	2	10'-8"									COLUMN	TIES
B507	E	12	11'-4"	142	3	1'-5"	3'-11"								COLUMN	TIES
B508	E	12	11'-0"	138	22	3'-6"	3'-3"	4'-6"							COLUMN	TIES
B509	E	2 series of 12	11'-5" to 15'- 3 3/4"	335	2	10'-10" to 14'-8 3/4" by 4 1/4"									COLUMN	TIES. BUNDLE AND TAG EACH SERIES SEPARATELY
B510	E	4 series of 12	11'-8" to 15'-6 1/2"	681	3	1'-5"	4'-1" to 6'-0 3/4" by 2 1/8"								COLUMN	TIES. BUNDLE AND TAG EACH SERIES SEPARATELY
B511	E	4 series of 12	11'-2" to 13'-1 3/8"	608	22	3'-6"	3'-5" to 5'-4 3/8" by 2 1/8"	4'-6"							COLUMN	TIES. BUNDLE AND TAG EACH SERIES SEPARATELY
B1012	E	20	23'-8"	2037	9	2'-0"	22'-0"	105°							CAP	TOP BARS
B1013	E	20	22'-0"	1893	1	22'-0"									CAP	TOP BARS - LAYER 2
B614	E	2	9'-5"	28	10	4'-0"	152°	6"							CAP	SIDES
B615	E	52	11'-1"	866	4	4'-4"	2'-9"								CAP	STIRRUPS
B616	E	4 series of 6	14'-10" to 17'-9"	587	3	4'-9" to 6'-2 1/2" by 3 1/2"	2'-3"								CAP	STIRRUPS. BUNDLE AND TAG EACH SERIES SEPARATELY
B617	E	4 series of 7	14'-10" to 16'-7"	660	4	4'-4"	6'-6" to 8'-3" by 3 1/2"								CAP	STIRRUPS. BUNDLE AND TAG EACH SERIES SEPARATELY
B618	E	4 series of 4	3'-11" to 14'-11"	226	8	2'-1" to 13'-1" by 3'-8"	2'-0"								CAP	SIDES. BUNDLE AND TAG EACH SERIES SEPARATELY
B819	E	12	14'-7"	467	9	12'-8"	2'-0"	60°							CAP	BOTTOM
B820	E	2 series of 6	28'-7" to 26'-7"	883	1	28'-7" to 26'-7" by $4\frac{3}{4}$"									CAP	SIDES. BUNDLE AND TAG EACH SERIES SEPARATELY
B521	E	8	4'-0"	33	1	4'-0"									CAP	END HORIZONTALS
B522	E	24	5'-10"	146	4	2'-0"	2'-1"								CAP	END HORIZONTALS
B523	E	16	4'-6"	75	1	4'-6"									CAP	END VERTICALS
B524	E	54	8'-8"	488	4	3'-4"	2'-3"								CAP	GIRDER STEP STIRRUPS
B525	E	6	27'-0"	169	1	27'-0"									CAP	GIRDER STEP SIDES
B526	E	4	12'-6"	52	1	12'-6"									CAP	GIRDER STEP TOP
B527	E	2	15'-9"	33	1	15'-9"									CAP	GIRDER STEP SIDES
B528	E	4	4'-8"	19	1	4'-8"									CAP	GIRDER STEP SIDES & TOP
B529	E	8	5'-8"	47	4	1'-11"	2'-1"								CAP	GIRDER STEP ENDS
B430	E	32	6'-3"	134	4	2'-1"	2'-3"								CAP	GIRDER STEP STIRRUPS
B631	E	12	10'-9"	194	4	4'-0"	3'-1"								CAP	BOX GIRDER PEDESTALS
B632	E	24	10'-1"	363	4	3'-7"	3'-3"								CAP	BOX GIRDER PEDESTALS
B633	E	16	12'-5"	298	4	3'-7"	5'-7"								CAP	BOX GIRDER PEDESTALS



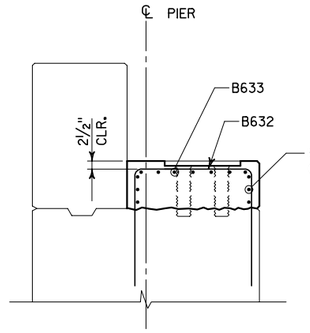
TOTAL NON-EPOXY REINFORCEMENT WT (LB)	3080
TOTAL EPOXY REINFORCEMENT WT (LB)	23730

STATE PROJECT NUMBER

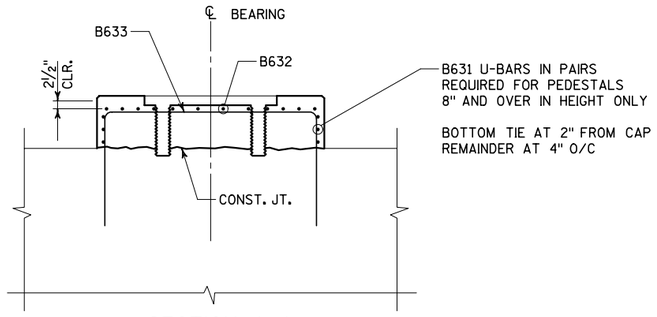
1060-05-75

NOTES

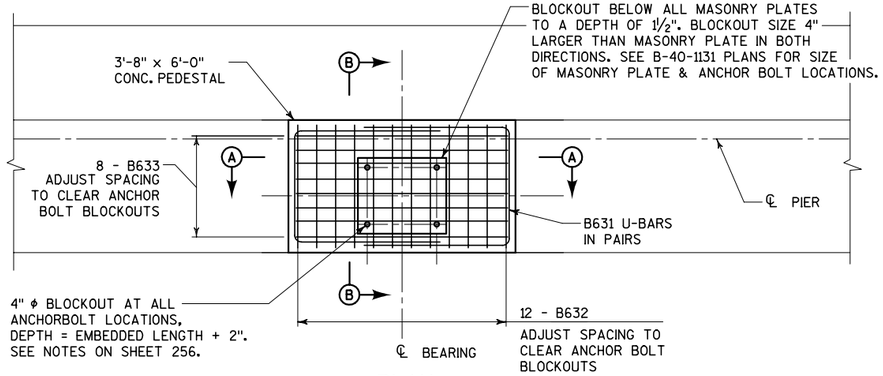
1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.



SECTION B-B



SECTION A-A



PLAN

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P1B-005
REINF. SCHEDULE & BEARING PEDESTAL

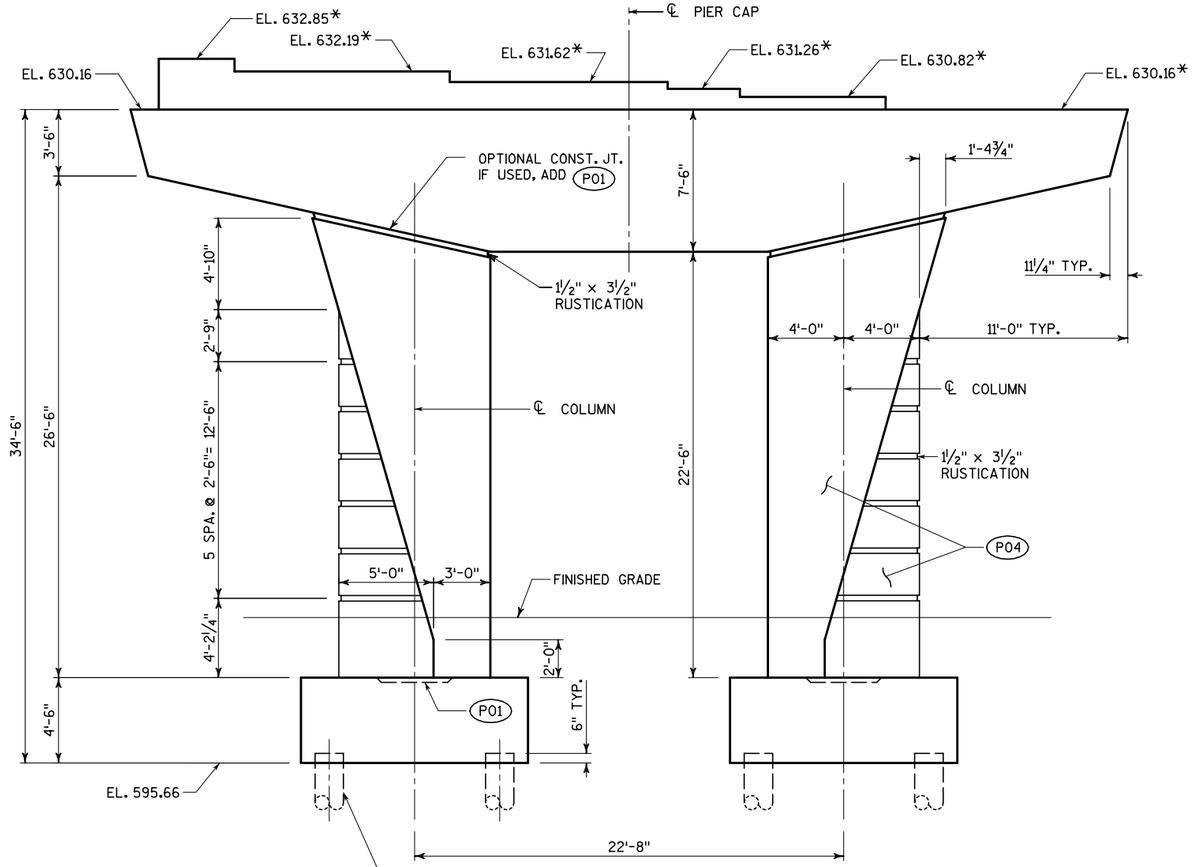
SHEET 259 OF 396

3127

FILE NAME: R:\C\bridges\1312\cds\1312-05C014D.dgn PEN TABLE: \\mtp\FinalDgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:40 Plotted by: emccrigh

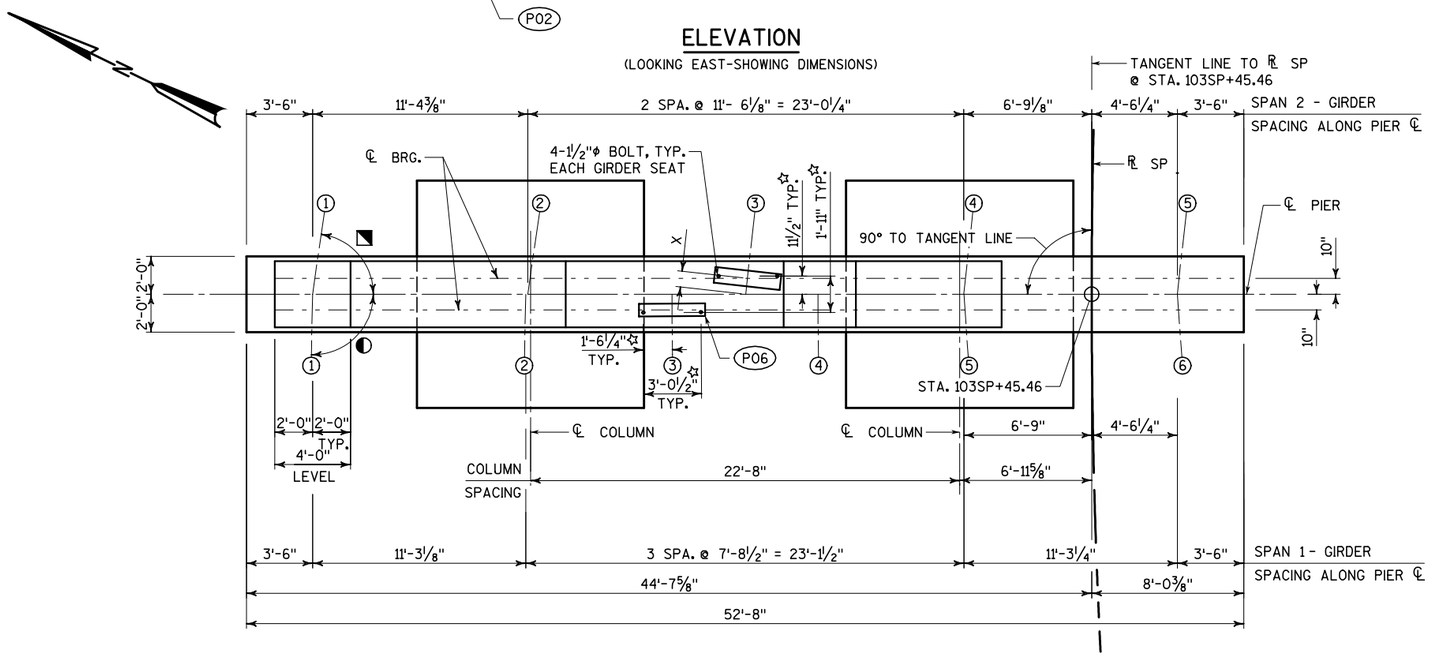
STATE PROJECT NUMBER

1060-05-75

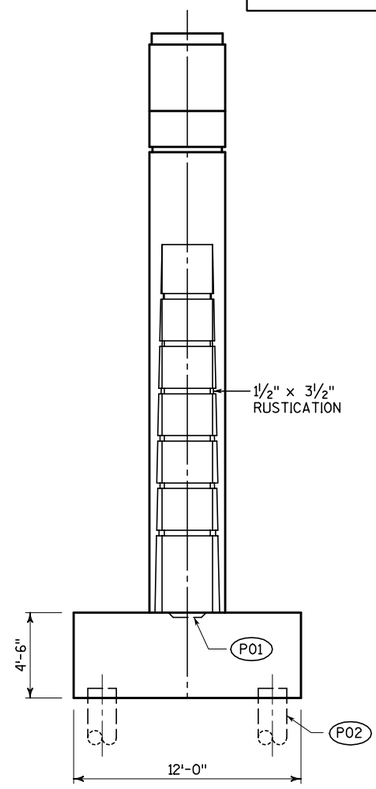


ELEVATION

(LOOKING EAST-SHOWING DIMENSIONS)



PLAN



END ELEVATION

BEARING ANGLE

	LOCATION	ANGLE	DIM. X
◥	GIRDER 1	81°49'08.3"	10⅛"
	GIRDER 2	81°49'08.3"	10⅛"
	GIRDER 3	83°43'39.1"	10 1/16"
	GIRDER 4	83°41'15.7"	10 1/16"
	GIRDER 5	83°41'15.7"	10 1/16"
◐	GIRDER 1	91°24'24.4"	10"
	GIRDER 2	91°24'24.4"	10"
	GIRDER 3	89°37'40.5"	10"
	GIRDER 4	87°49'06.0"	10"
	GIRDER 5	85°58'49.1"	10"
	GIRDER 6	85°58'49.1"	10"

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 200 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 85'.

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 383.

(P06) 1½" THICK MASONRY PLATE, SEE "PRESTRESSED GIRDER BEARINGS" SHEET FOR DETAILS.

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

☆ DIMENSIONS ARE GIVEN TO THE ℄ OF ANCHOR BOLTS.

DIM. X IS GIVEN FROM THE ℄ PIER TO THE ℄ BRG. ALONG THE ℄ GIRDER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P2-005

SHEET 260 OF 396

3128

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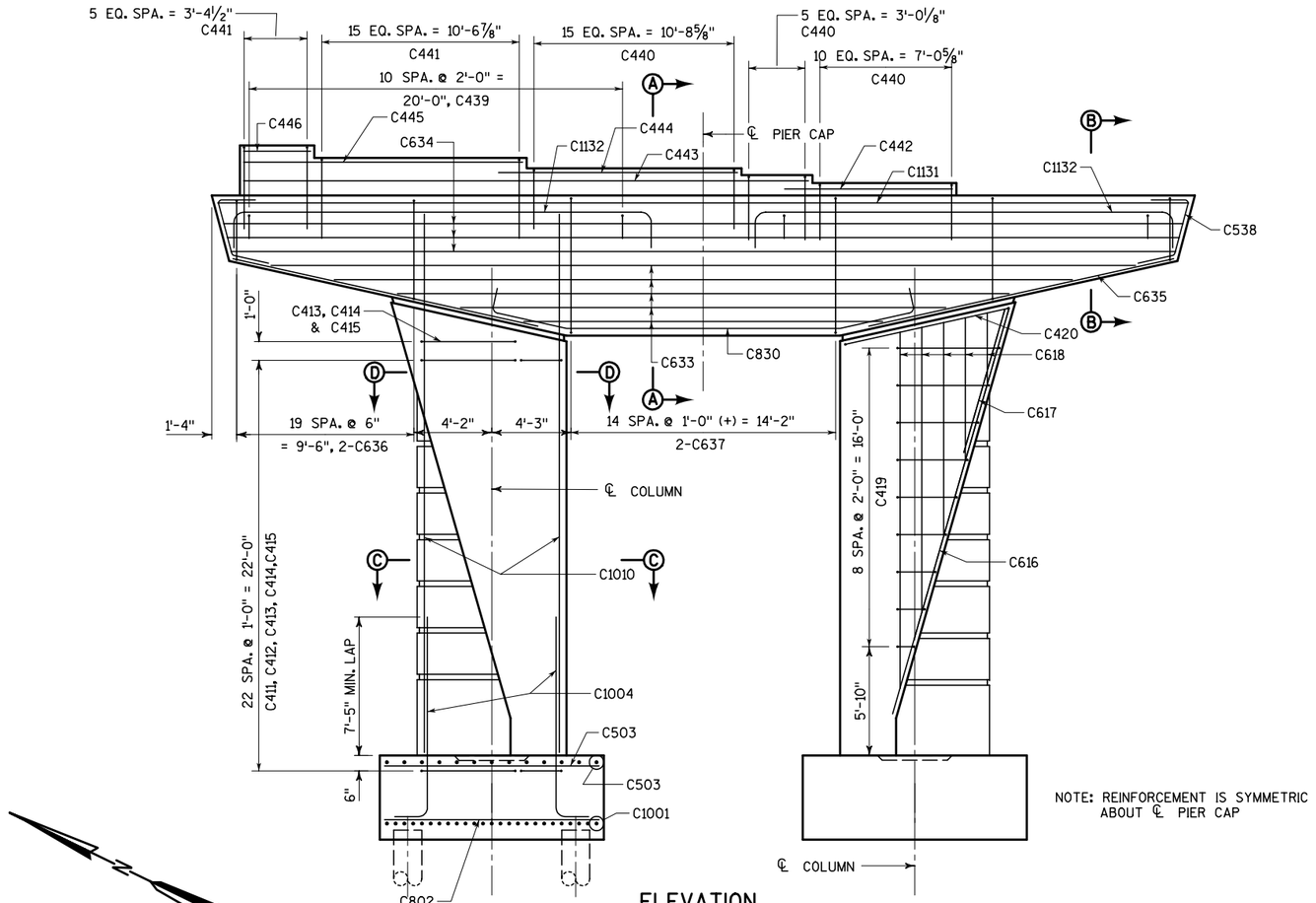
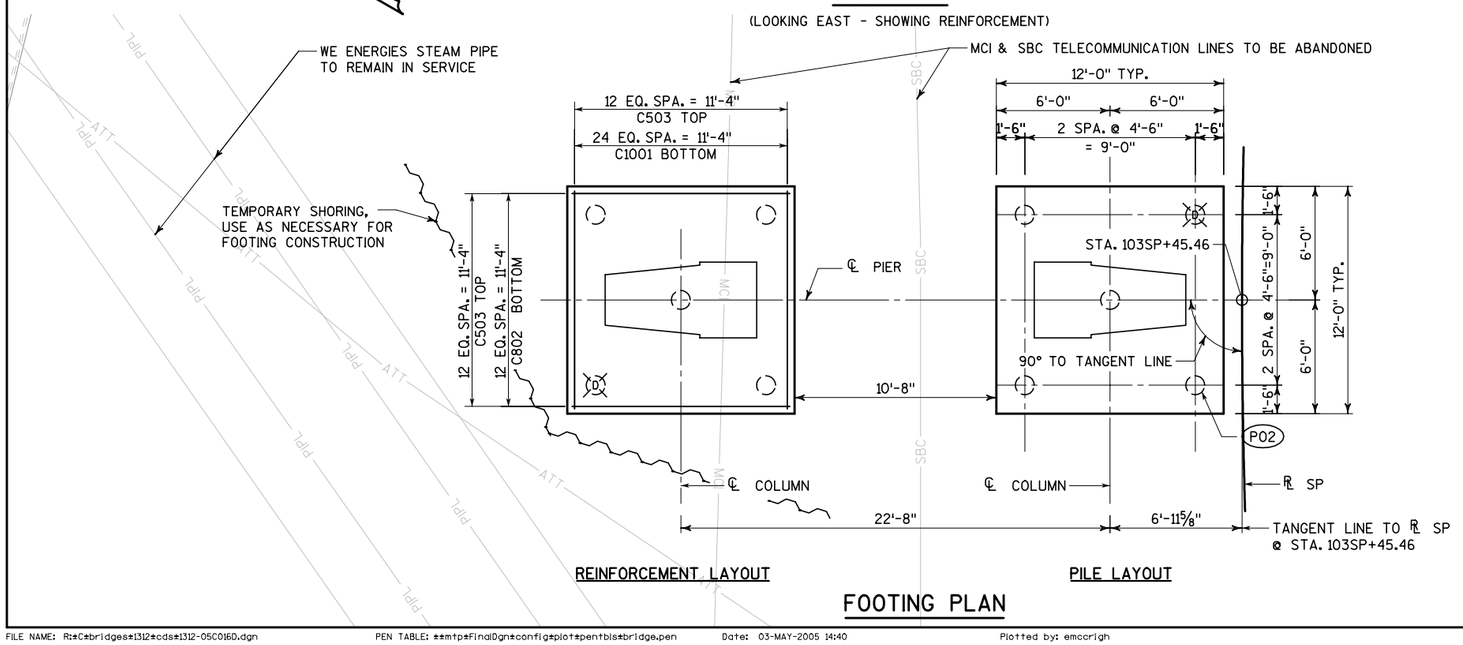
STATE PROJECT NUMBER
1060-05-75



NOTE: REINFORCEMENT IS SYMMETRIC ABOUT ℄ PIER CAP

ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)



REINFORCEMENT LAYOUT

PILE LAYOUT

FOOTING PLAN

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 200 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 85'.

(D) DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P2-005
REINF. LAYOUT

SHEET 261 OF 396
3129

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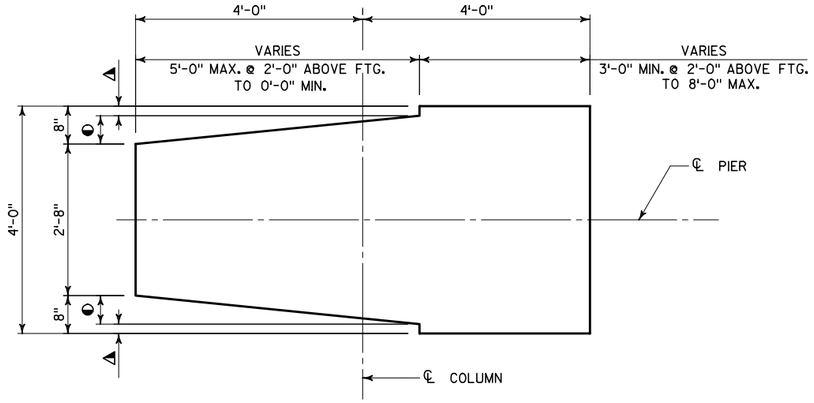
STATE PROJECT NUMBER

1060-05-75

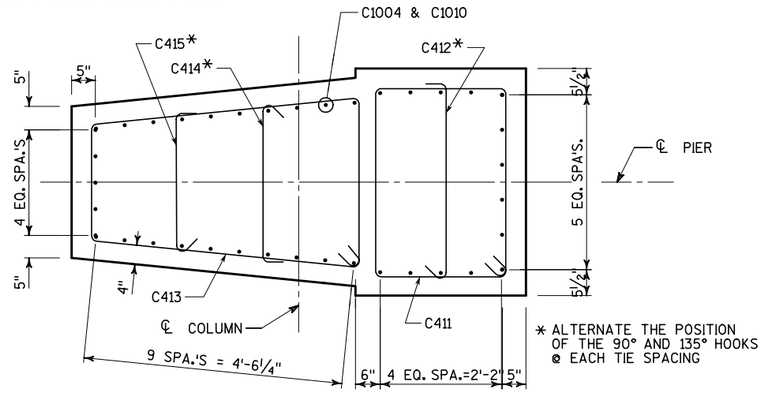


SECTION THRU COLUMN

(SHOWING DIMENSIONS)

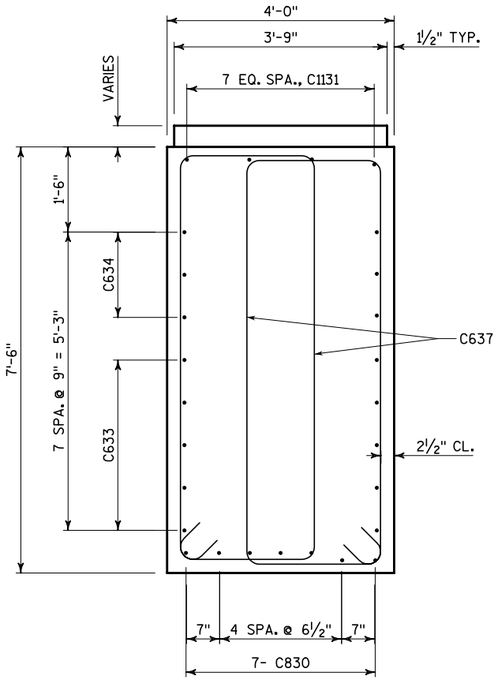
◑ VARIES 6" MAX. @ 2'-0" ABOVE FTG. TO 0" MIN.

◭ VARIES 2" MIN. @ 2'-0" ABOVE FTG. TO 8" MAX.

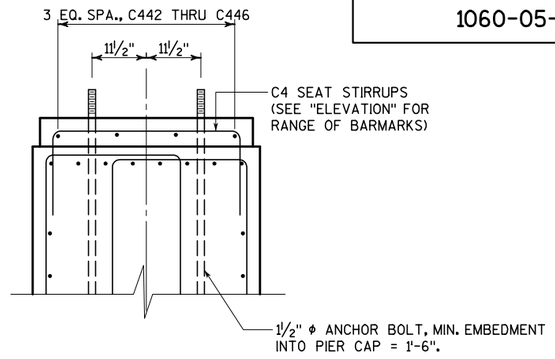


SECTION C-C

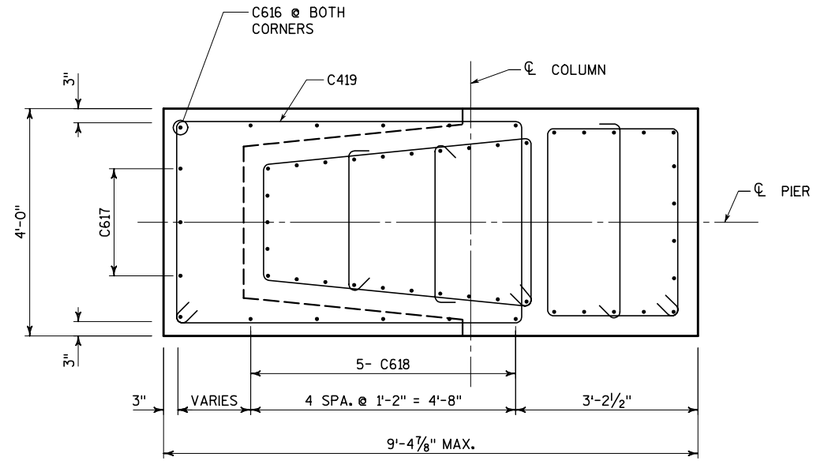
(SHOWING REINFORCEMENT)



SECTION A-A



SECTION THRU GIRDER SEAT



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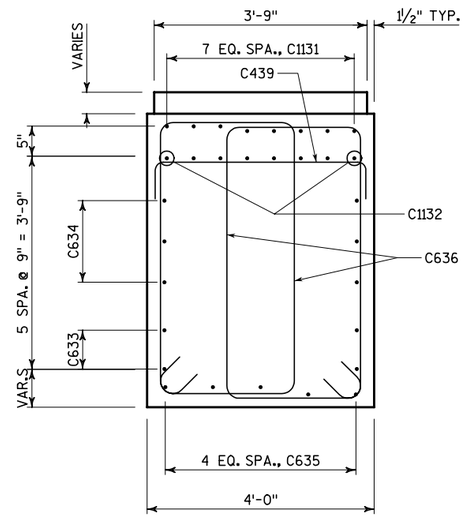

SECTION B-B

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P2-005
DETAILS

SHEET 262 OF 396

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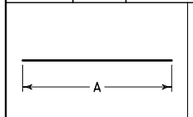
STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
C1001		50	11'-6"	2474	1	11'-6"									FOOTING	BOTTOM
C802		26	11'-6"	798	1	11'-6"									FOOTING	BOTTOM
C503		52	11'-6"	624	1	11'-6"									FOOTING	TOP
C1004	E	74	12'-7"	4007	8	11'-1"									FOOTING	DOWEL
C1010	E	74	28'-10"	9182	1	28'-10"									COLUMN	VERTICAL
C411	E	46	11'-10"	364	3	3'-4"	2'-4"								COLUMN	TIES
C412	E	46	4'-0"	123	13	3'-4"									COLUMN	TIES
C413	E	48	15'-1"	484	14	3'-0"	4'-9"	6"							COLUMN	TIES
C414	E	48	3'-4"	107	13	2'-8½"									COLUMN	TIES
C415	E	48	3'-1"	99	13	2'-5"									COLUMN	TIES
C616	E	4	22'-8"	136	1	22'-8"									COLUMN	VERTICAL
C617	E	6	8'-0"	72	1	8'-0"									COLUMN	VERTICAL
C618	E	4 series of 5	19'-1" to 3'-10"	345	1	19'-1" to 3'-10" by 3'-9¾"									COLUMN	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
C419	E	2 series of 9	18'-7" to 9'-5"	169	3	5'-5½" to 10½" by 6⅞"	3'-7"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
C420	E	2	26'-1"	35	3	9'-2½"	3'-7"								COLUMN	TIES
C830	E	7	25'-1"	469	16	4'-2"	14'-7"						12.49		CAP	BOTTOM
C1131	E	8	52'-0"	2210	1	52'-0"									CAP	TOP
C1132	E	16	24'-10"	2111	4	1'-11½"	21'-8"								CAP	TOP
C633	E	2 series of 5	19'-3" to 46'-4"	492	1	19'-3" to 46'-4" by 6'-9¼"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
C634	E	2 series of 3	50'-7" to 51'-5"	460	1	50'-7" to 51'-5" by 5"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
C635	E	10	16'-9"	252	1	16'-9"									CAP	BOTTOM @ ENDS
C636	E	4 series of 20	15'-10" to 11'-8"	1652	3	5'-2½" to 3'-1½" by 1⅜"	2'-5"								CAP	STIRRUPS @ ENDS, BUNDLE AND TAG EACH SERIES SEPARATELY
C637	E	30	19'-7"	882	3	7'-1"	2'-5"								CAP	STIRRUPS
C538	E	10	7'-0"	73	17	2'-0"	3'-2"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
C439	E	22	4'-8"	69	4	8"	3'-7"								CAP	TIE
C440	E	33	9'-1"	200	4	3'-0"	3'-4"								CAP	VERTICAL GIRDER SEATS
C441	E	22	11'-7"	170	4	4'-3"	3'-4"								CAP	VERTICAL GIRDER SEATS
C442	E	4	9'-0"	24	1	9'-0"									CAP	HORIZ. GIRDER SEATS
C443	E	4	30'-3"	81	1	30'-3"									CAP	HORIZ. GIRDER SEATS
C444	E	4	12'-10"	34	1	12'-10"									CAP	HORIZ. GIRDER SEATS
C445	E	4	14'-11"	40	1	14'-11"									CAP	HORIZ. GIRDER SEATS
C446	E	4	3'-7"	10	1	3'-7"									CAP	HORIZ. GIRDER SEATS



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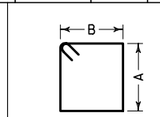

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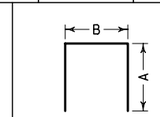

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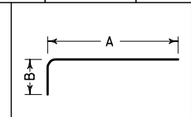
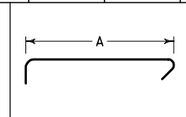


TYPE 8



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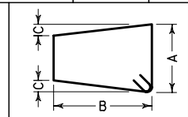
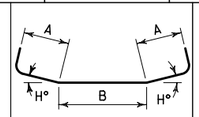


TYPE 14



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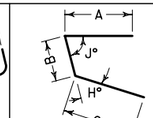

TYPE 17

TOTAL NON-EPOXY REINFORCEMENT WT (LB)	3897
TOTAL EPOXY REINFORCEMENT WT (LB)	24352

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

PIER P2-005
REINF. SCHEDULE

SHEET 263 OF 396
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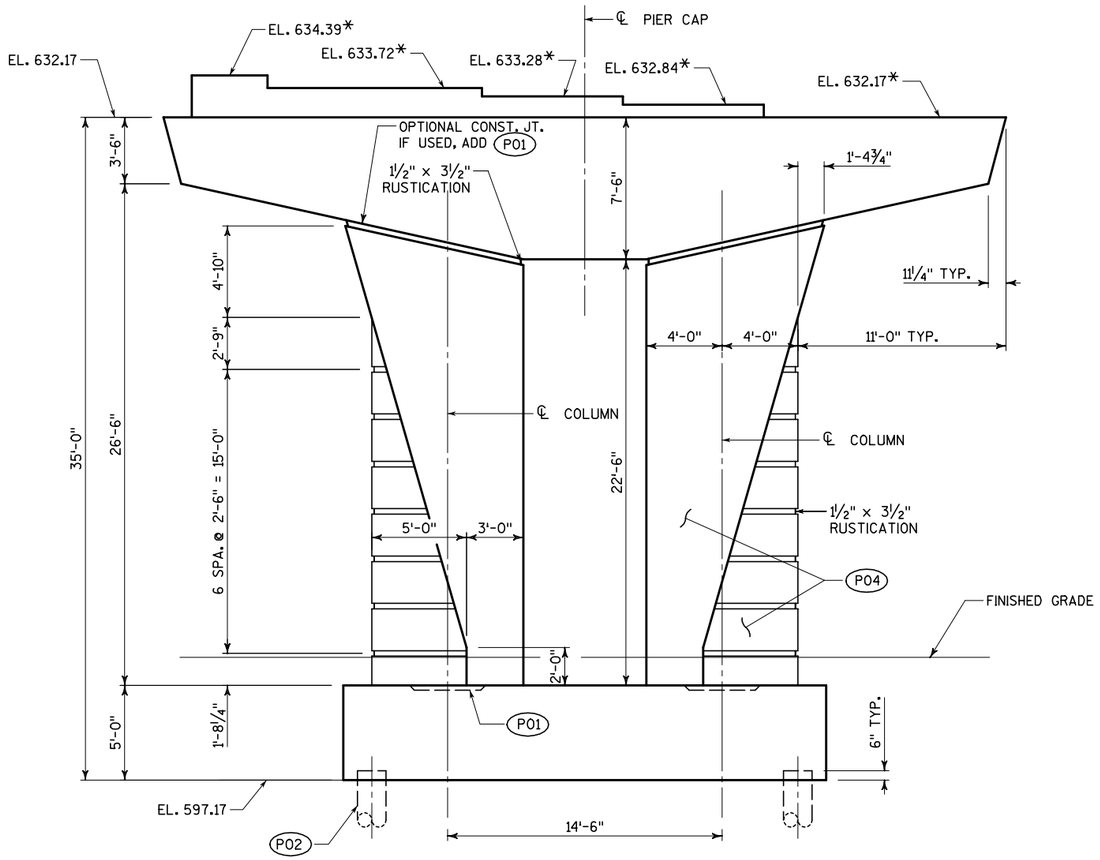
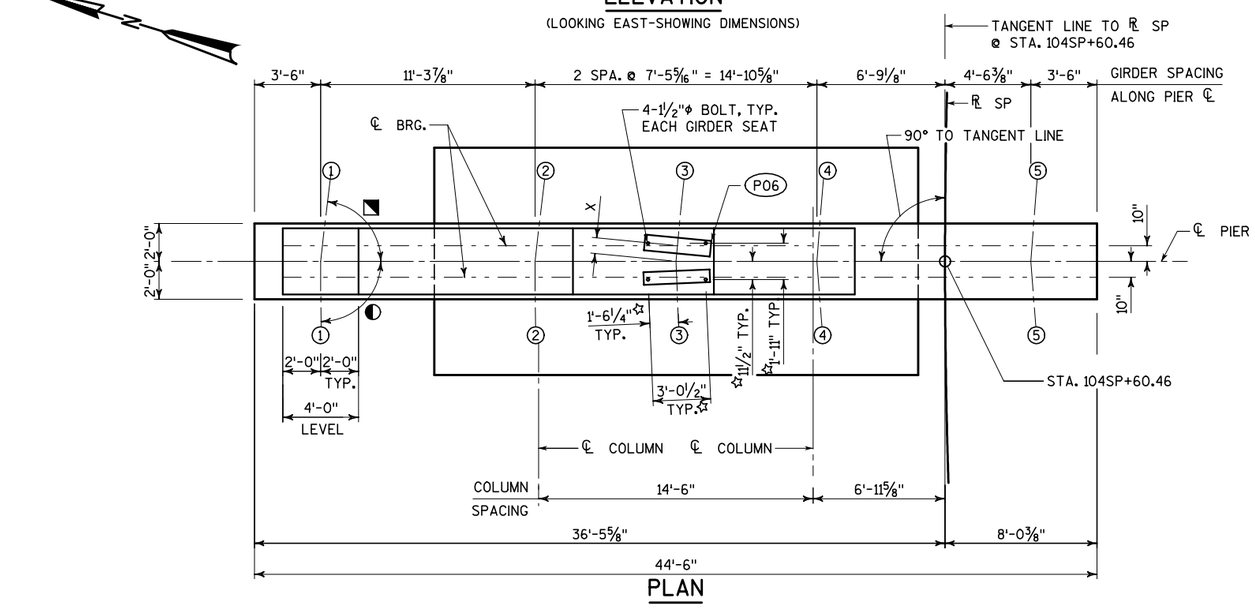
STATE PROJECT NUMBER
1060-05-75

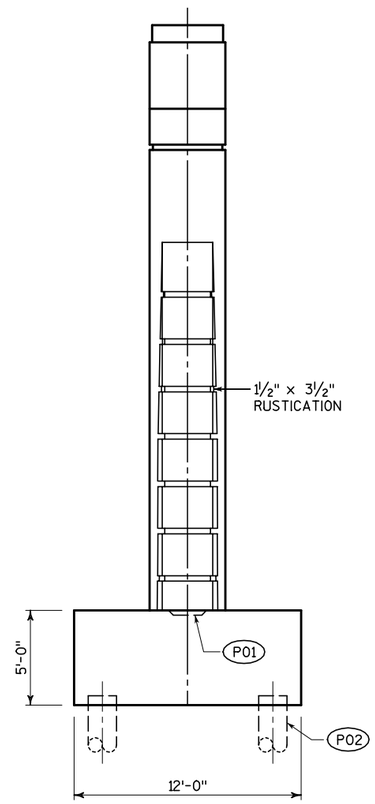


ELEVATION

(LOOKING EAST-SHOWING DIMENSIONS)



PLAN



END ELEVATION

BEARING ANGLE

	LOCATION	ANGLE	DIM. X
◥	GIRDER 1	83°23'37.7"	10 1/16"
◥	GIRDER 2	83°23'37.7"	10 1/16"
◥	GIRDER 3	84°27'23.5"	10"
◥	GIRDER 4	85°32'16.0"	10"
◥	GIRDER 5	85°32'16.0"	10"
◐	GIRDER 1	89°33'21.8"	10"
◐	GIRDER 2	89°33'21.8"	10"
◐	GIRDER 3	87°35'50.9"	10"
◐	GIRDER 4	85°41'14.3"	10"
◐	GIRDER 5	85°41'14.3"	10"

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 200 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 90'.

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 383.

(P06) 1½" THICK MASONRY PLATE, SEE "PRESTRESSED GIRDER BEARINGS" SHEET FOR DETAILS.

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

☆ DIMENSIONS ARE GIVEN TO THE ℄ OF ANCHOR BOLTS.

DIM. X IS GIVEN FROM THE ℄ PIER TO THE ℄ BRG. ALONG THE ℄ GIRDER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P3-005

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3132

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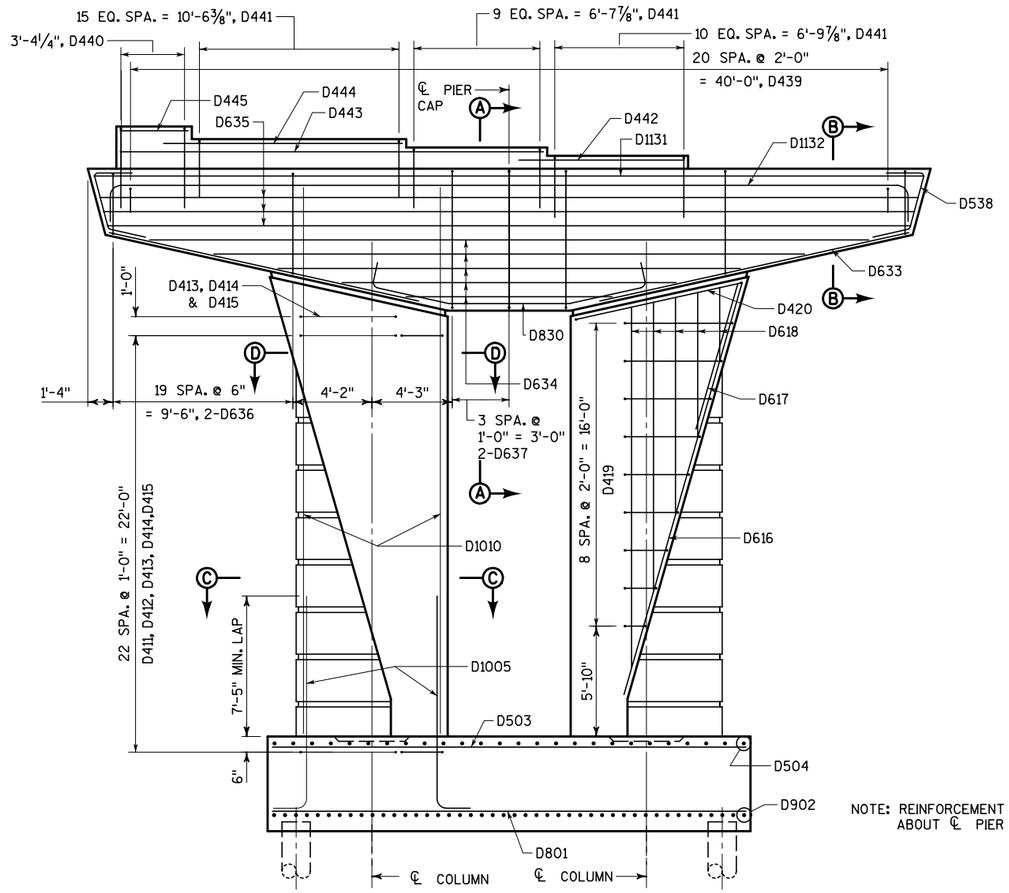
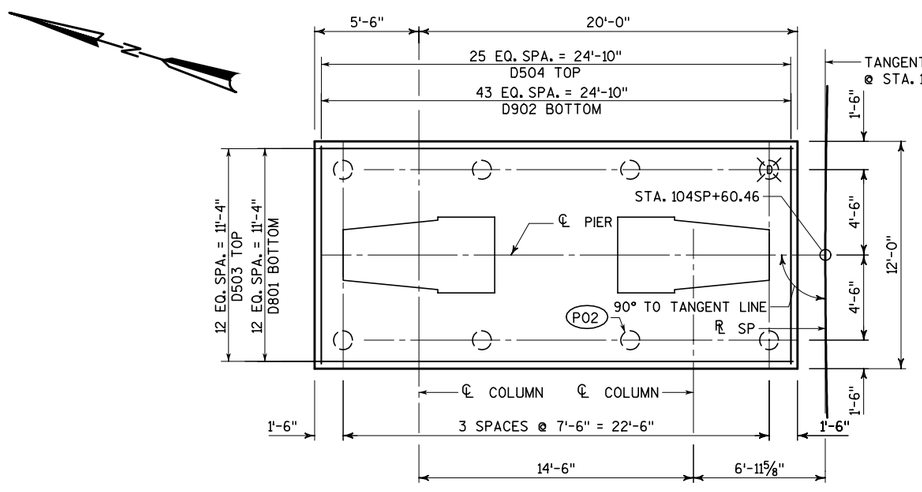
STATE PROJECT NUMBER
1060-05-75



ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)

NOTE: REINFORCEMENT IS SYMMETRIC ABOUT ℄ PIER CAP



FOOTING PLAN

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 200 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 90'.

DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

8

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DEPARTMENT OF TRANSPORTATION
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STRUCTURE B-40-1312 (005)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

PIER P3-005 REINF. LAYOUT

SHEET 265 OF 396

3133

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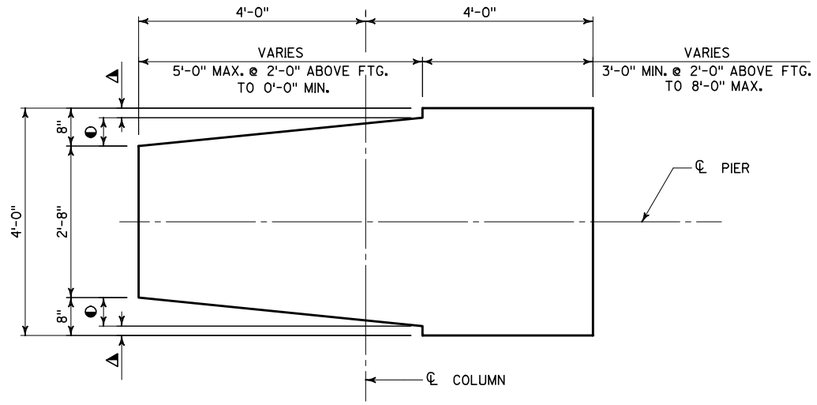
STATE PROJECT NUMBER

1060-05-75

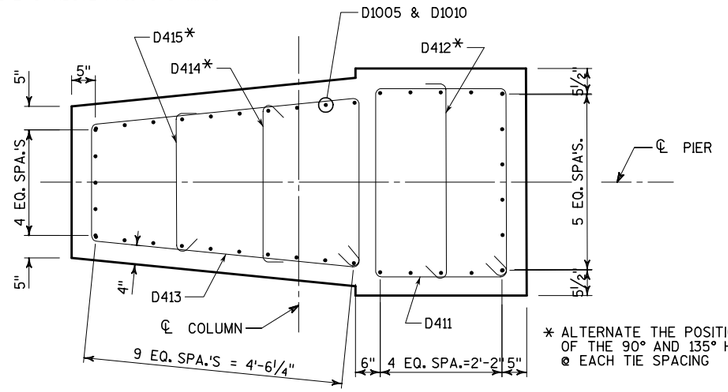


SECTION THRU COLUMN

(SHOWING DIMENSIONS)

◑ VARIES 6" MAX. @ 2'-0" ABOVE FTG. TO 0" MIN.

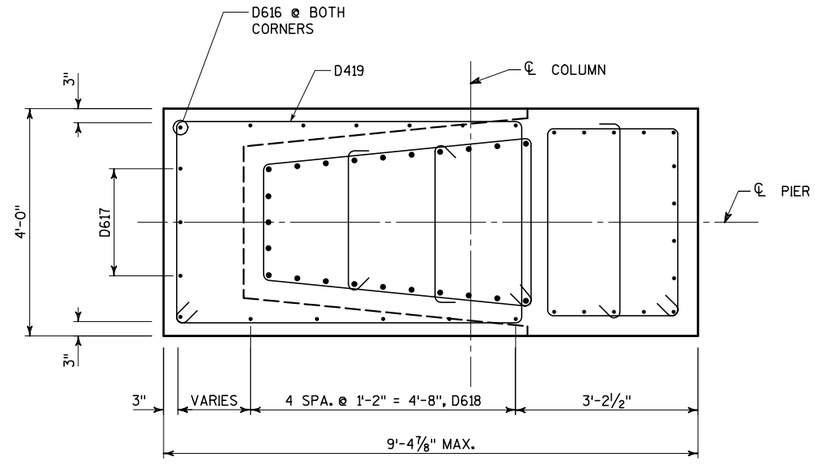
◭ VARIES 2" MIN. @ 2'-0" ABOVE FTG. TO 8" MAX.



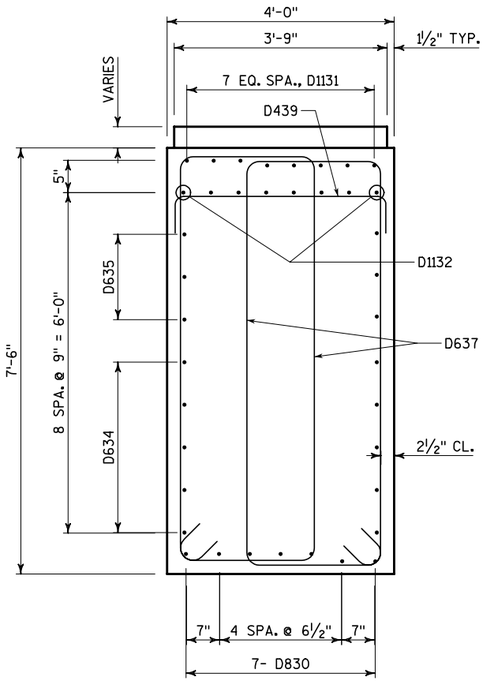
* ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS @ EACH TIE SPACING

SECTION C-C

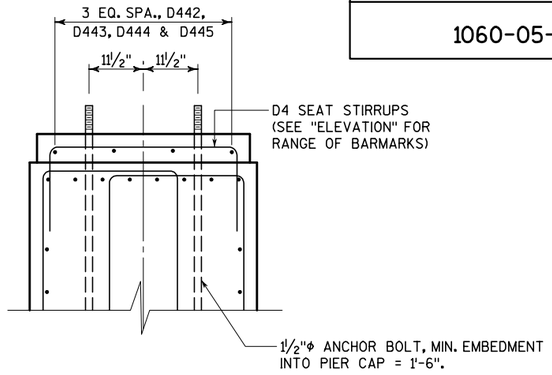
(SHOWING REINFORCEMENT)



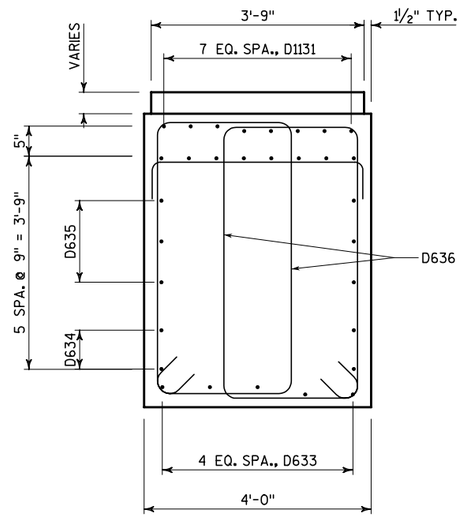
SECTION D-D



SECTION A-A



SECTION THRU GIRDER SEAT



SECTION B-B

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P3-005 DETAILS

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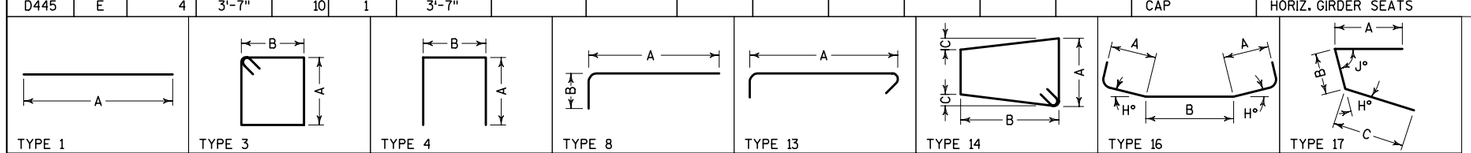
STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
D801		13	25'-0"	868	1	25'-0"									FOOTING	BOTTOM
D902		44	11'-6"	1721	1	11'-6"									FOOTING	BOTTOM
D503		13	25'-0"	339	1	25'-0"									FOOTING	TOP
D504		26	11'-6"	312	1	11'-6"									FOOTING	TOP
D1005	E	74	13'-1"	4166	8	11'-7"									FOOTING	DOWEL
D1010	E	74	28'-10"	9182	1	28'-10"									COLUMN	VERTICAL
D411	E	46	11'-10"	364	3	3'-4"	2'-4"								COLUMN	TIES
D412	E	46	4'-0"	123	13	3'-4"									COLUMN	TIES
D413	E	48	15'-1"	484	14	3'-0"	4'-9"	6"							COLUMN	TIES
D414	E	48	3'-4"	107	13	2'-8½"									COLUMN	TIES
D415	E	48	3'-1"	99	13	2'-5"									COLUMN	TIES
D616	E	4	22'-8"	136	1	22'-8"									COLUMN	VERTICAL
D617	E	6	8'-0"	72	1	8'-0"									COLUMN	VERTICAL
D618	E	4 series of 5	19'-1" to 3'-10"	345	1	19'-1" to 3'-10" by 3'-9¾"									COLUMN	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
D419	E	2 series of 9	19'-0" to 9'-10"	174	3	5'-8" to 1'-1" by 6⅞"	3'-7"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
D420	E	2	26'-1"	35	3	9'-2½"	3'-7"								COLUMN	TIES
D830	E	7	16'-11"	316	16	4'-2"	6'-5"						12.49		CAP	BOTTOM
D1131	E	12	43'-10"	2795	1	43'-10"									CAP	TOP
D1132	E	8	45'-5"	1931	4	1'-11½"	42'-3"								CAP	TOP
D633	E	10	16'-9"	252	1	16'-9"									CAP	BOTTOM @ ENDS
D634	E	1 series of 5	10'-11" to 38'-0"	184	1	10'-11" to 38'-0" by 6'-9¼"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
D635	E	1 series of 3	42'-5" to 43'-3"	193	1	42'-5" to 43'-3" by 5"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
D636	E	4 series of 20	15'-11" to 11'-9"	1665	3	5'-3" to 3'-2" by 1⅜"	2'-5"								CAP	STIRRUPS @ ENDS, BUNDLE AN TAG EACH SERIES SEPARATELY
D637	E	14	19'-7"	412	3	7'-1"	2'-5"								CAP	STIRRUPS
D538	E	10	7'-0"	73	17	2'-0"	3'-2"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
D439	E	21	4'-8"	65	4	8"	3'-7"								CAP	TIES
D440	E	6	11'-7"	46	4	4'-3"	3'-4"								CAP	VERTICAL GIRDER SEATS
D441	E	37	9'-1"	225	4	3'-0"	3'-4"								CAP	VERTICAL GIRDER SEATS
D442	E	4	8'-9"	23	1	8'-9"									CAP	HORIZ. GIRDER SEATS
D443	E	4	22'-4"	60	1	22'-4"									CAP	HORIZ. GIRDER SEATS
D444	E	4	12'-7"	34	1	12'-7"									CAP	HORIZ. GIRDER SEATS
D445	E	4	3'-7"	10	1	3'-7"									CAP	HORIZ. GIRDER SEATS



TOTAL NON-EPOXY REINFORCEMENT WT (LB)	3239
TOTAL EPOXY REINFORCEMENT WT (LB)	23569

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

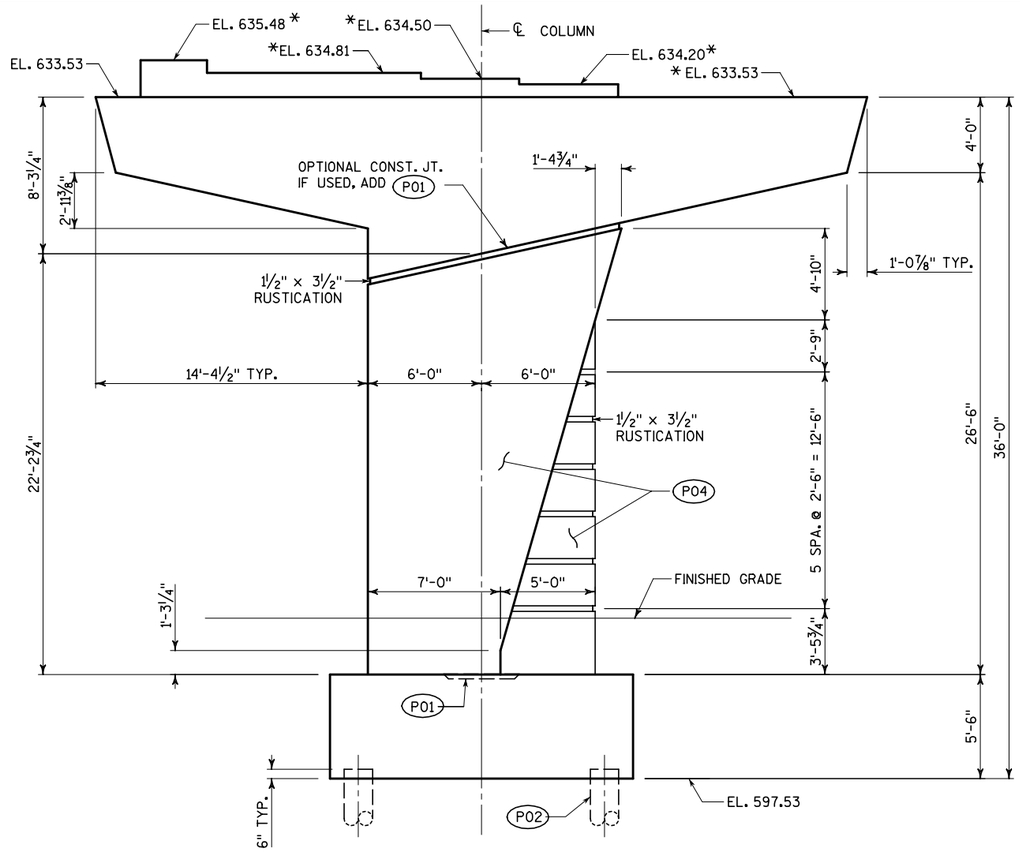
CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

PIER P3-005
REINF. SCHEDULE

SHEET 267 OF 396
3135

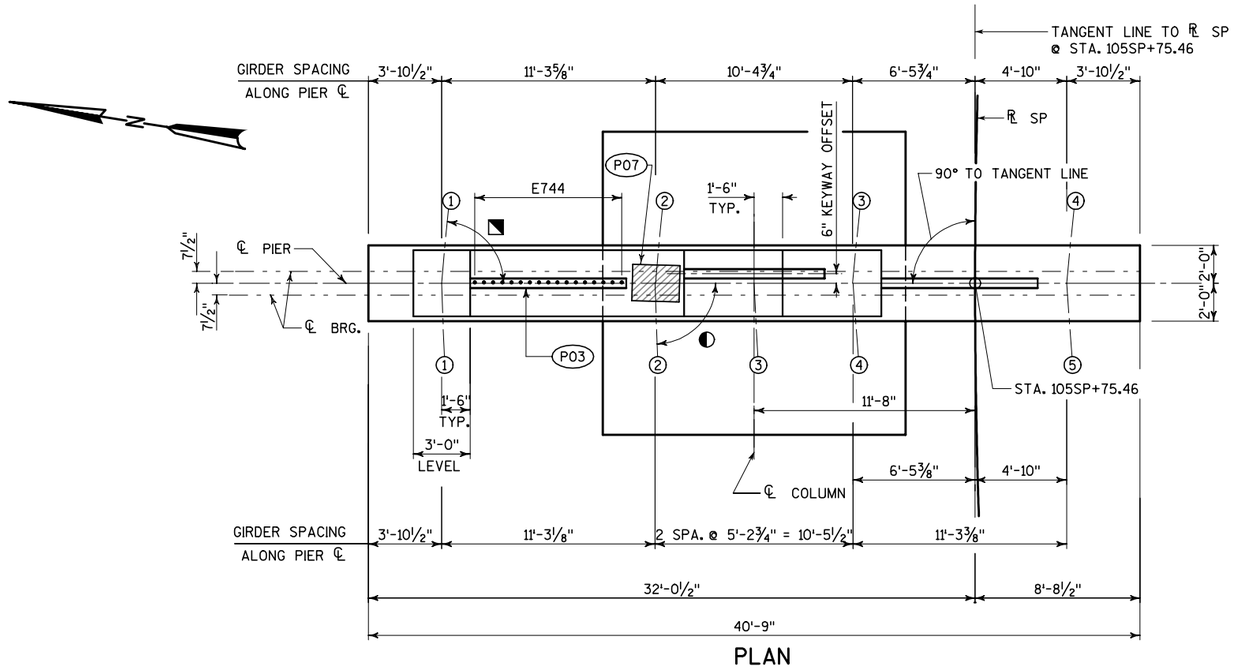
STATE PROJECT NUMBER

1060-05-75

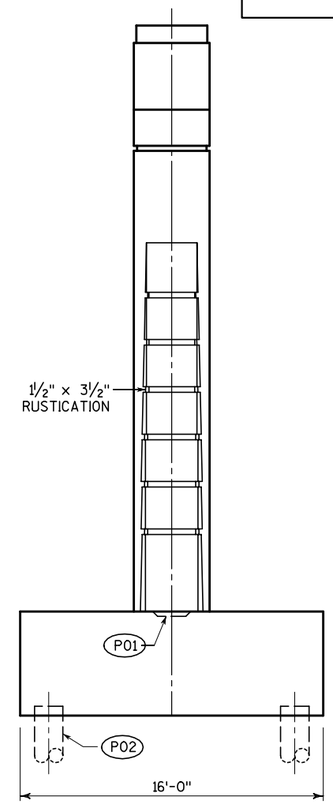


ELEVATION

(LOOKING EAST-SHOWING DIMENSIONS)



PLAN



END ELEVATION

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 200 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 85'.

(P03) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 2" X 6".

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 384.

(P07) ½" THICK ELASTOMERIC BEARING PAD. SEE SHEET 360 FOR DETAILS.

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

BEARING ANGLE

	LOCATION	ANGLE
◥	GIRDER 1	84°47'28.5"
	GIRDER 2	84°47'28.5"
	GIRDER 3	84°20'59.3"
	GIRDER 4	84°20'59.3"
◐	GIRDER 1	87°58'52.4"
	GIRDER 2	87°58'52.4"
	GIRDER 3	86°55'06.5"
	GIRDER 4	85°50'14.0"
	GIRDER 5	85°50'14.0"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P4-005

SHEET 268 OF 396

3136

8

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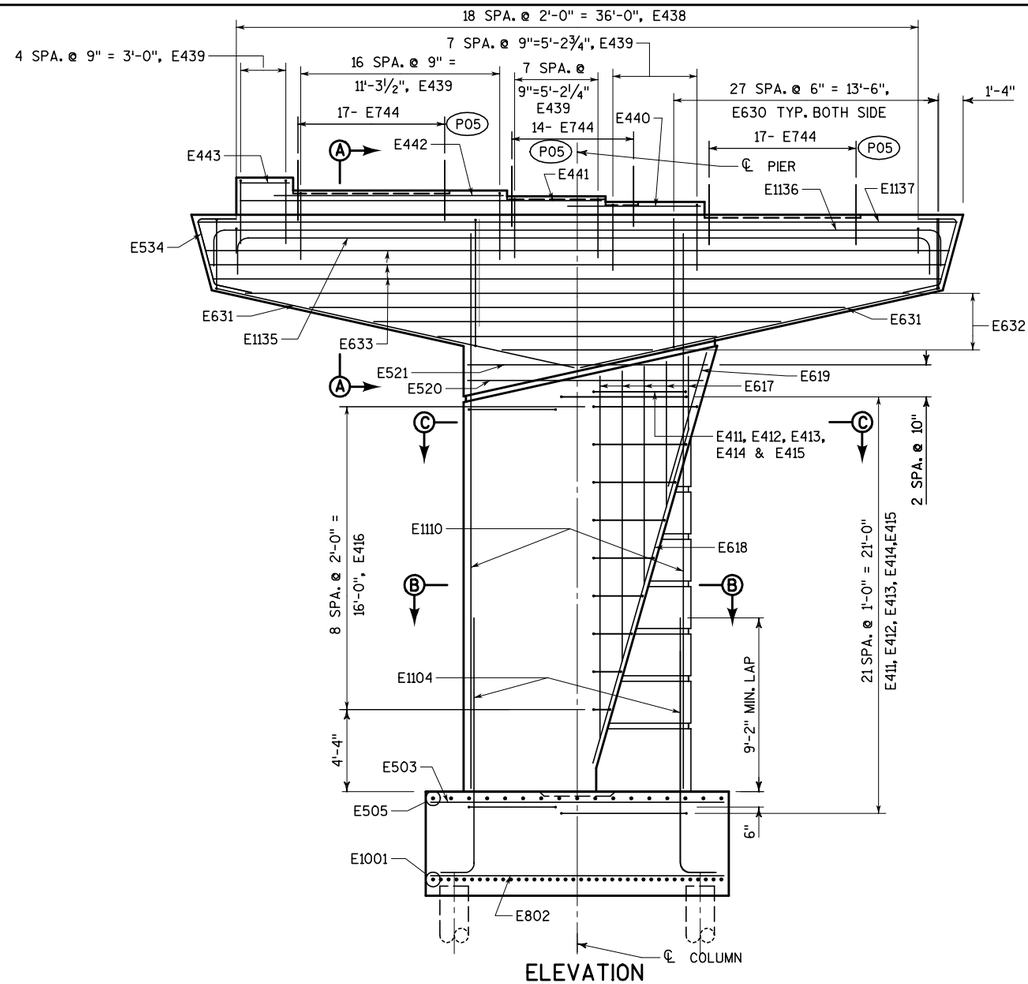
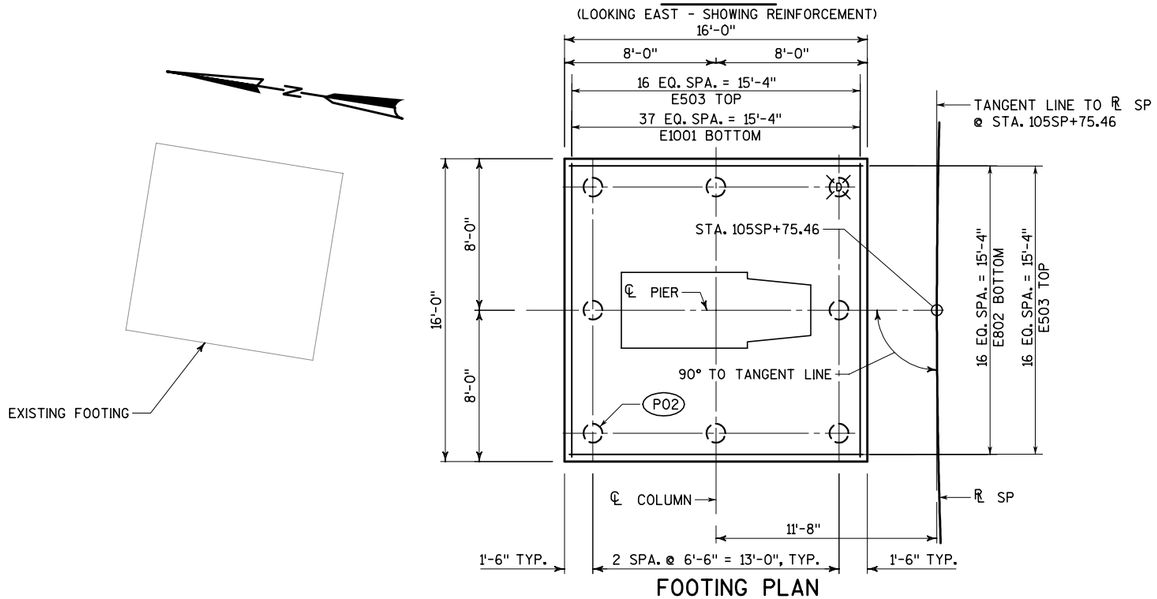


ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)



FOOTING PLAN

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 200 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 85'.

NOTE - PROPOSED PILES MAY BE ADJUSTED UP TO 6" EACH WAY TO AVOID CONFLICTS WITH EXISTING PILES. IF GREATER ADJUSTMENT IS REQUIRED, CONTACT THE ENGINEER FOR ADDITIONAL INSTRUCTIONS BEFORE PROCEEDING.

LOCATION OF EXISTING PILES IS SHOWN BASED ON AS-BUILT DRAWINGS ONLY. FIELD VERIFY PILE LOCATIONS IMMEDIATELY AFTER EXPOSURE AND NOTIFY THE ENGINEER OF ANY DEVIATIONS NOTED.

(P05) E744 BARS AT 6 EQ. SPA. BETWEEN BEAM SEATS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. EMBED 1'-7".

D DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

STATE PROJECT NUMBER

1060-05-75

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P4-005
REINF. LAYOUT

SHEET 269 OF 396
3137

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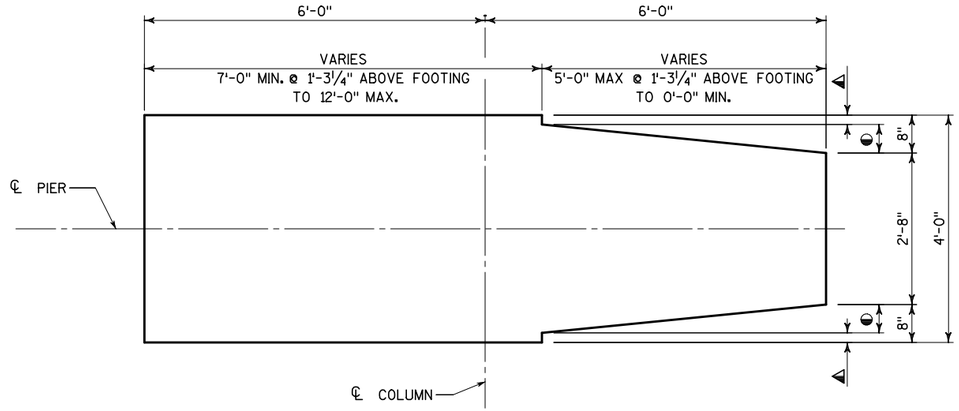
STATE PROJECT NUMBER
1060-05-75

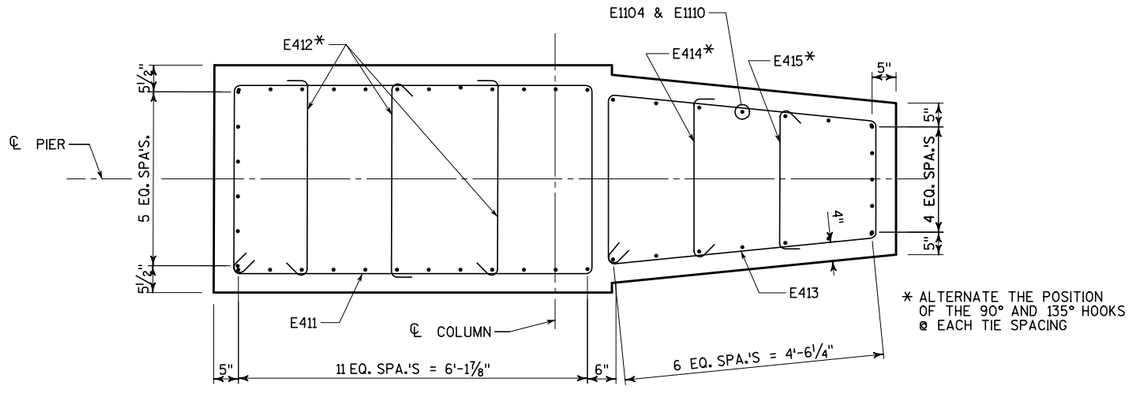


SECTION THRU COLUMN

(SHOWING DIMENSIONS)

◑ VARIES 6" MAX. @ 1'-3¼" ABOVE FOOTING TO 0" MIN.

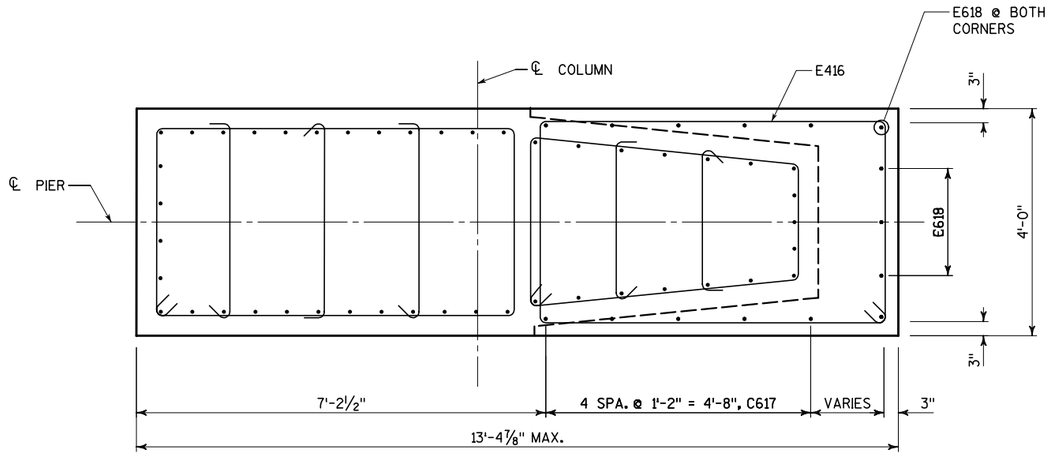
◭ VARIES 2" MIN. @ 1'-3¼" ABOVE FOOTING TO 8" MAX.



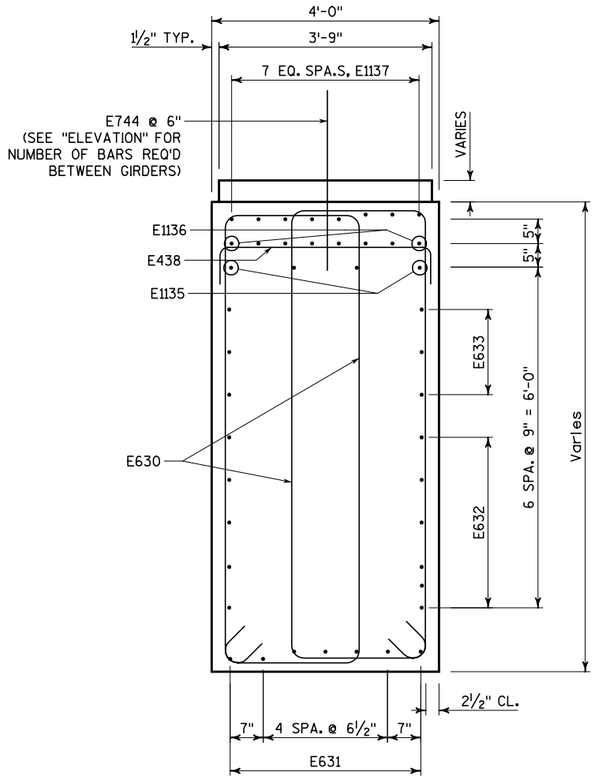
* ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS @ EACH TIE SPACING

SECTION B-B

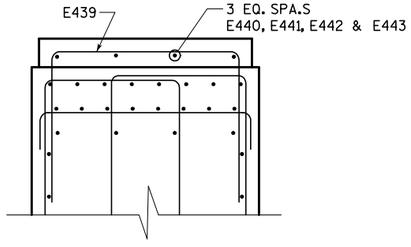
(SHOWING REINFORCEMENT)



SECTION C-C



SECTION A-A



SECTION THRU GIRDER SEAT

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P4-005 DETAILS

SHEET 270 OF 396

3138

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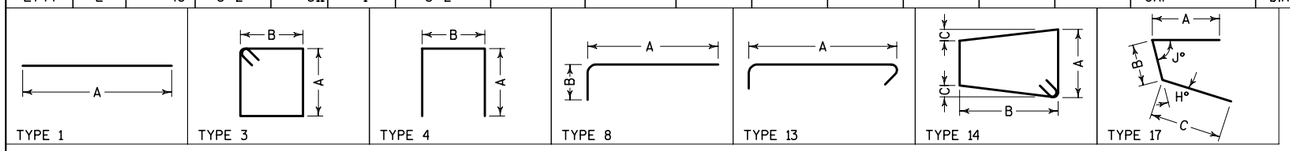
STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
E1001		38	15'-6"	2535	1	15'-6"									FOOTING	BOTTOM
E802		17	15'-6"	704	1	15'-6"									FOOTING	BOTTOM
E503		34	15'-6"	550	1	15'-6"									FOOTING	TOP
E1104	E	45	15'-5"	3686	8	13'-10"									FOOTING	DOWEL
E1110	E	45	29'-4"	7014	1	29'-4"									COLUMN	VERTICAL
E411	E	23	19'-10"	305	3	6'-4"	3'-4"								COLUMN	TIES
E412	E	69	4'-0"	184	13	3'-4"									COLUMN	TIES
E413	E	23	15'-1"	232	14	3'-0"	4'-9"	6"							COLUMN	TIES
E414	E	23	2'-11"	45	13	2'-3½"									COLUMN	TIES
E415	E	23	3'-1"	47	13	2'-5"									COLUMN	TIES
E416	E	9	19'-11"	120	3	6'-1½"	3'-7"								COLUMN	TIES
E617	E	1 series of 5	19'-2" to 3'-11"	86	1	19'-2" to 3'-11" by 3'-9¾"									COLUMN	VERTICAL
E618	E	2	18'-5"	55	1	18'-5"									COLUMN	VERTICAL
E619	E	3	7'-4"	33	1	7'-4"									COLUMN	VERTICAL
E521	E	1	33'-2"	35	3	12'-8½"	3'-7"								COLUMN	TIE, TOP OF COLUMN
E630	E	4 series of 28	12'-9" to 18'-9"	2653	3	3'-8" to 6'-8" by 1⅜"	2'-5"								CAP	STIRRUPS
E631	E	14	19'-5"	408	1	19'-5"									CAP	BOTTOM @ ENDS
E632	E	2 series of 5	35'-1" to 7'-11"	323	1	35'-1" to 7'-11" by 6'-9½"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
E633	E	2 series of 3	39'-3" to 38'-6"	350	1	39'-3" to 38'-6" by 4½"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
E534	E	10	7'-6"	78	17	2'-0"	3'-8"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
E1135	E	4	39'-10"	847	4	1'-11½"	36'-8"								CAP	TOP
E1136	E	8	41'-8"	1771	4	1'-11½"	38'-6"								CAP	TOP
E1137	E	8	40'-1"	1704	1	40'-1"									CAP	TOP
E438	E	19	4'-8"	59	4	8"	3'-7"								CAP	TIE
E439	E	38	9'-7"	243	4	3'-3"	3'-4"								CAP	VERTICAL GIRDER SEATS
E440	E	4	7'-0"	19	1	7'-0"									CAP	HORIZ. GIRDER SEATS
E441	E	4	19'-1"	51	1	19'-1"									CAP	HORIZ. GIRDER SEATS
E442	E	4	12'-1"	32	1	12'-1"									CAP	HORIZ. GIRDER SEATS
E443	E	4	2'-7"	7	1	2'-7"									CAP	HORIZ. GIRDER SEATS
E744	E	48	3'-2"	311	1	3'-2"									CAP	DIAPHRAGM DOWEL



TOTAL NON-EPOXY REINFORCEMENT	WT (LB)	3788
TOTAL EPOXY REINFORCEMENT	WT (LB)	20699

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

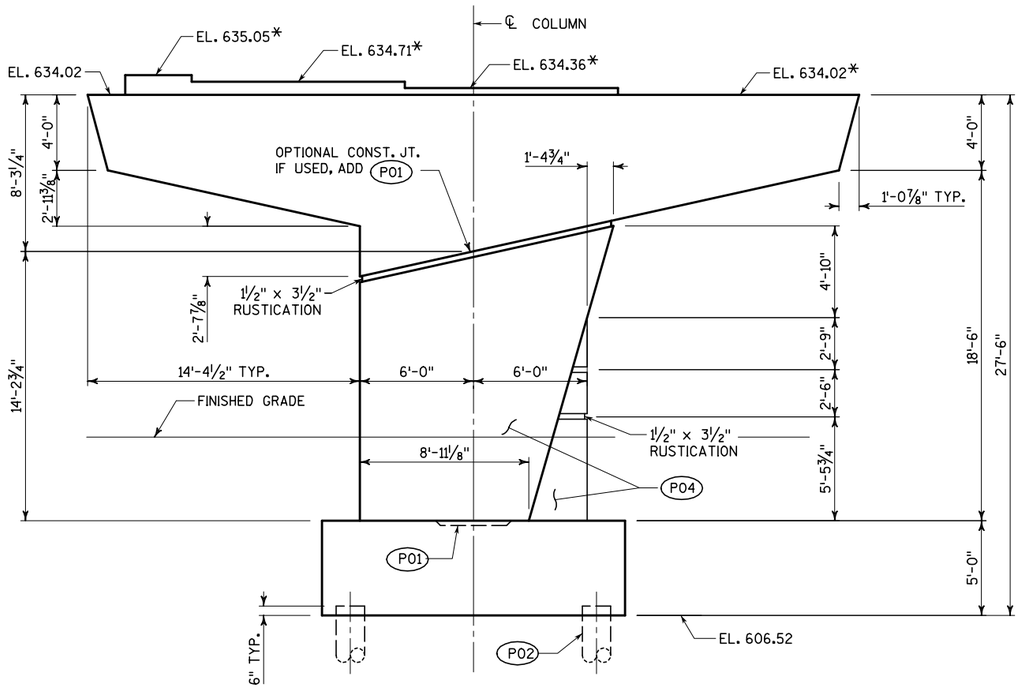
STRUCTURE B-40-1312 (005)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

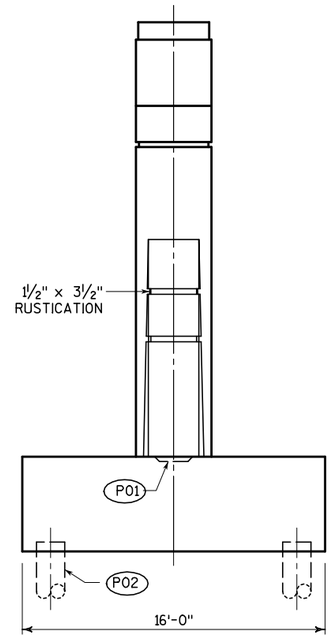
PIER P4-005
REINF. SCHEDULE

SHEET 271 OF 396
3139

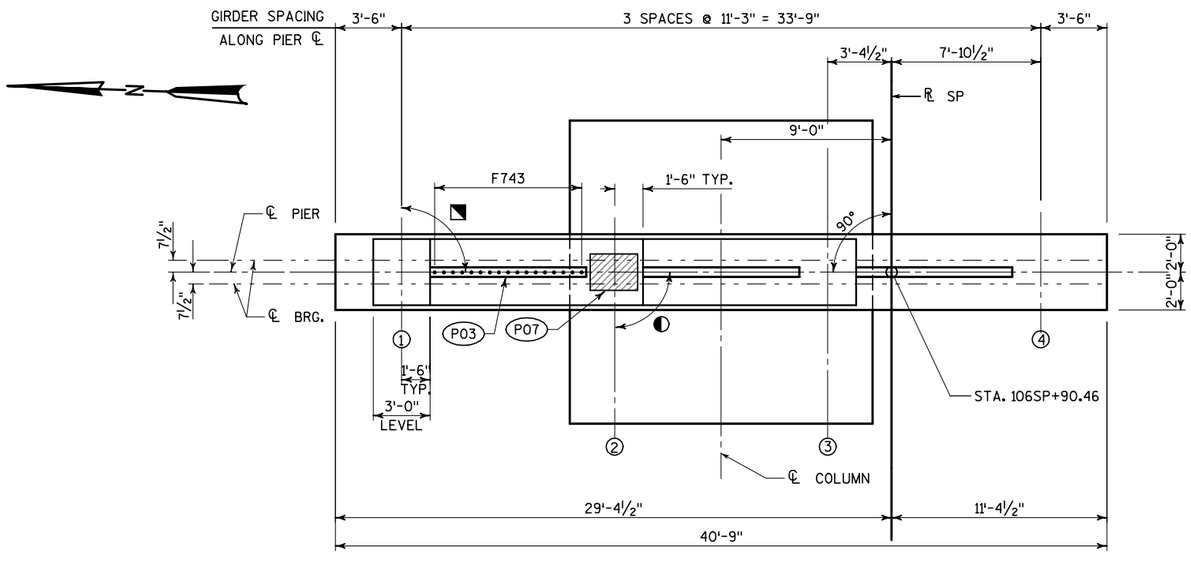
STATE PROJECT NUMBER
1060-05-75



ELEVATION
(LOOKING EAST-SHOWING DIMENSIONS)



END ELEVATION



PLAN

BEARING ANGLE

LOCATION		ANGLE
◪	GIRDER 1	90°0'0.0"
	GIRDER 2	90°0'0.0"
	GIRDER 3	90°0'0.0"
	GIRDER 4	90°0'0.0"
◐	GIRDER 1	88°24'37.4"
	GIRDER 2	88°24'37.4"
	GIRDER 3	88°51'06.7"
	GIRDER 4	88°51'06.7"

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 230 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 95'.

(P03) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 2" X 6".

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 384.

(P07) ½" THICK ELASTOMERIC BEARING PAD, SEE SHEET 360 FOR DETAILS.

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P5-005

SHEET 272 OF 396

3140

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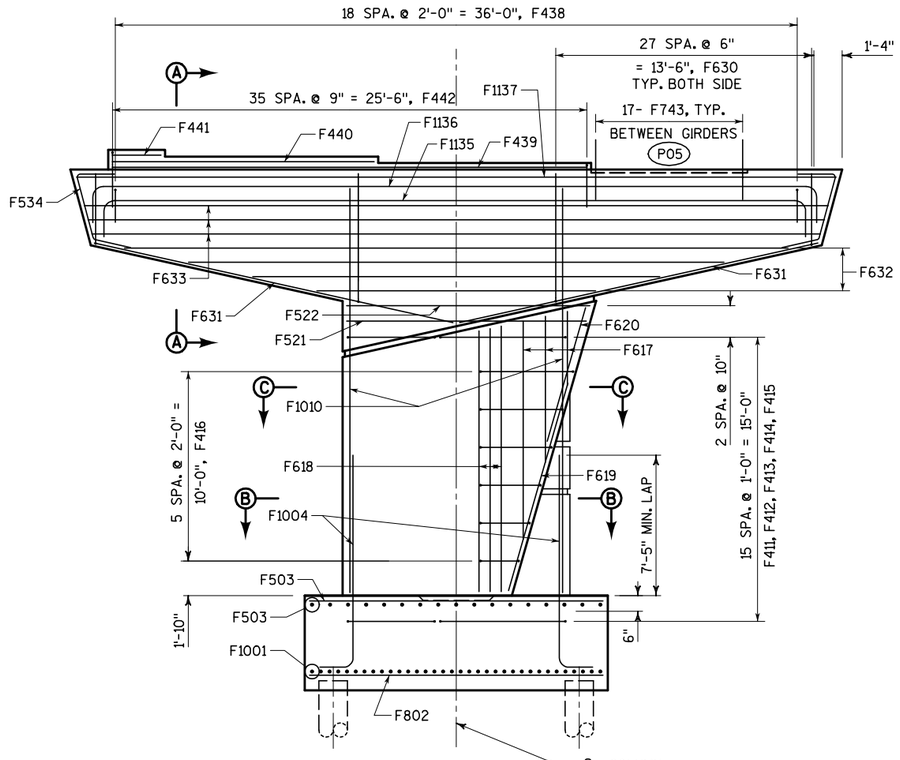
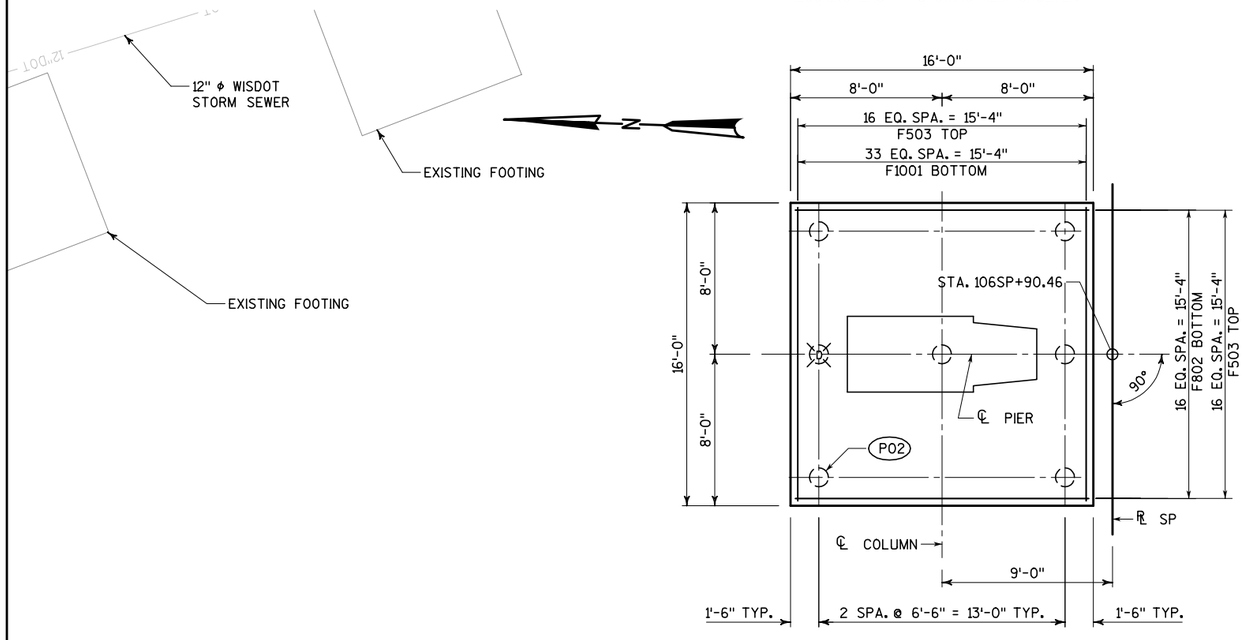
STATE PROJECT NUMBER
1060-05-75



ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)



FOOTING PLAN

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 230 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 95'.

(P05) F743 BARS AT 6 EQ. SPA. BETWEEN BEAM SEATS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. EMBED 1'-7".

(D) DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

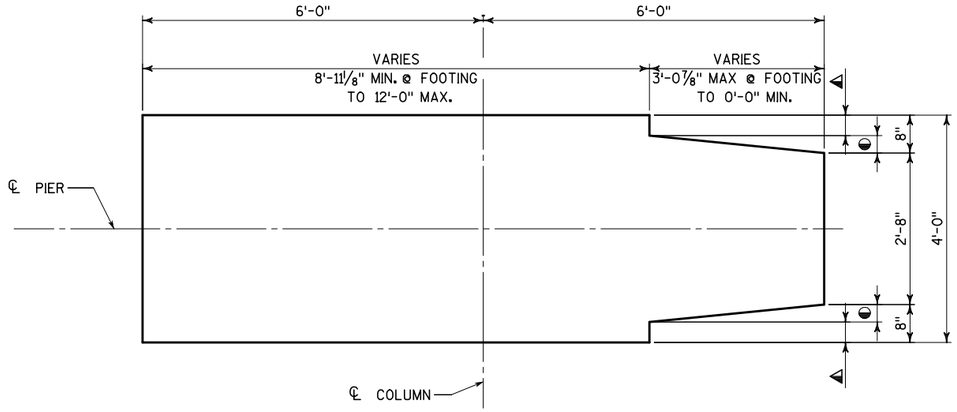
PIER P5-005 REINF. LAYOUT

SHEET 273 OF 396

3141

8

STATE PROJECT NUMBER
1060-05-75

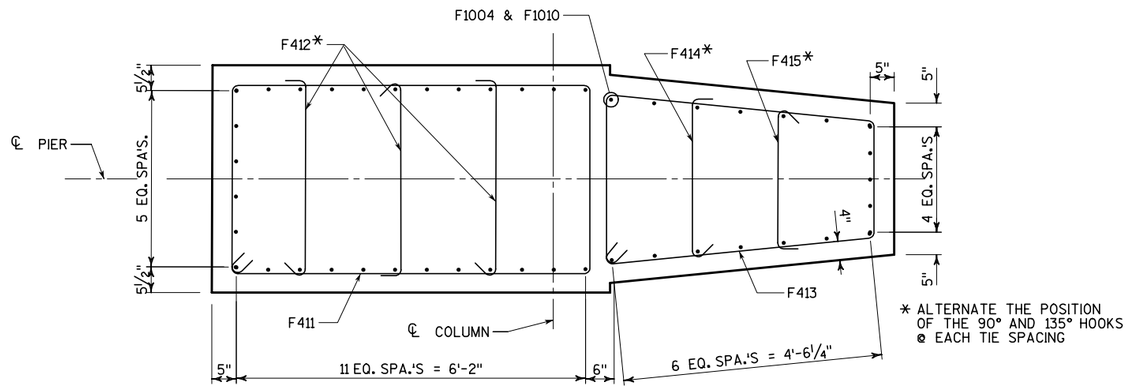


SECTION THRU COLUMN

(SHOWING DIMENSIONS)

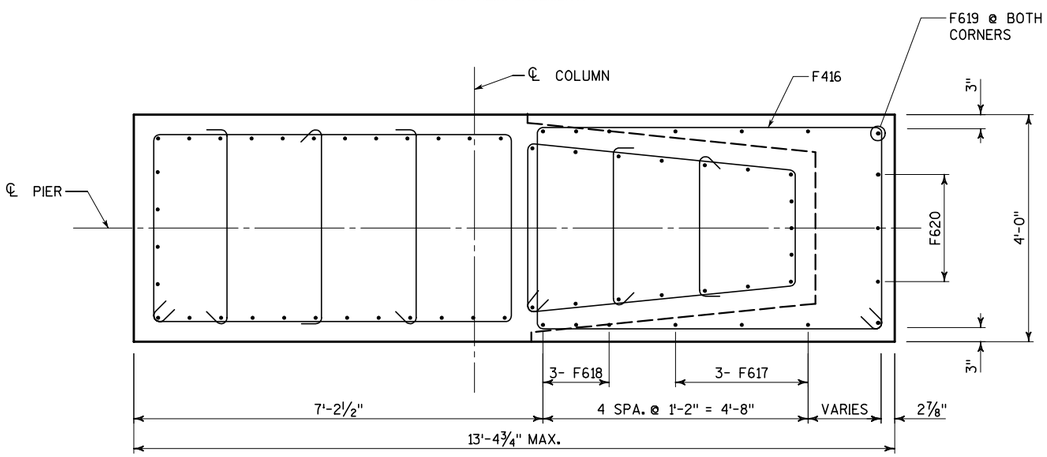
◑ VARIES 3⅝" MAX. @ FOOTING TO 0" MIN.

◭ VARIES 4⅜" MIN. @ FOOTING TO 8" MAX.

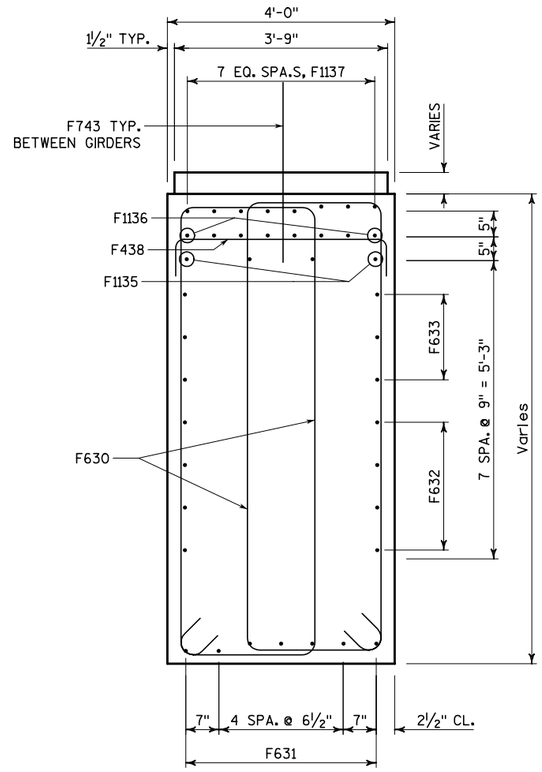


SECTION B-B

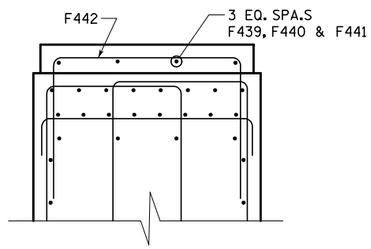
(SHOWING REINFORCEMENT)



SECTION C-C



SECTION A-A



SECTION THRU GIRDER SEAT

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

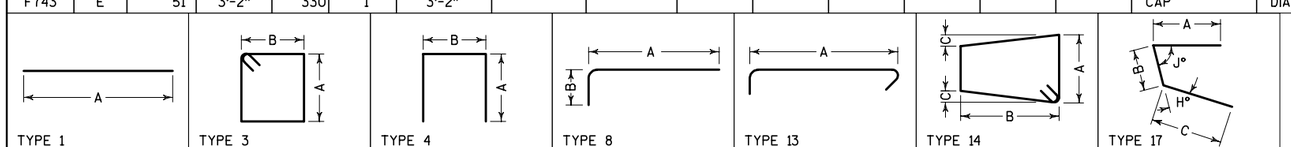
CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P5-005 DETAILS

SHEET 274 OF 396

3142

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
F1001		34	15'-6"	2268	1	15'-6"									FOOTING	BOTTOM
F802		17	15'-6"	704	1	15'-6"									FOOTING	BOTTOM
F503		34	15'-6"	550	1	15'-6"									FOOTING	TOP
F1004	E	45	13'-1"	2534	8	11'-7"									FOOTING	DOWEL
F1010	E	45	21'-4"	4131	1	21'-4"									COLUMN	VERTICAL
F411	E	16	19'-10"	212	3	6'-4"	3'-4"								COLUMN	TIES
F412	E	48	4'-0"	128	13	3'-4"									COLUMN	TIES
F413	E	16	15'-1"	161	14	3'-0"	4'-9"	6"							COLUMN	TIES
F414	E	16	2'-11"	31	13	2'-3½"									COLUMN	TIES
F415	E	16	3'-1"	33	13	2'-5"									COLUMN	TIES
F416	E	1 series of 6	17'-6" to 11'-9"	59	3	4'-11" to 2'-0½" by 6⅞"	3'-7"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
F617	E	2 series of 3	11'-6" to 3'-11"	69	1	11'-6" to 3'-11" by 3'-9½"									COLUMN	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
F618	E	2 series of 3	14'-0" to 13'-9"	125	1	14'-0" to 13'-9" by 1½"									COLUMN	VERTICAL
F619	E	2	11'-5"	34	1	11'-5"									COLUMN	VERTICAL
F620	E	3	7'-4"	33	1	7'-4"									COLUMN	VERTICAL
F521	E	1	33'-2"	35	3	12'-8½"	3'-7"								COLUMN	TIES, TOP OF COLUMN
F522	E	1	33'-7"	35	3	12'-11"	3'-7"								COLUMN	TIES, TOP OF COLUMN
F630	E	4 series of 28	12'-9" to 18'-9"	2653	3	3'-8" to 6'-8" by 1⅜"	2'-5"								CAP	STIRRUPS
F631	E	14	19'-5"	408	1	19'-5"									CAP	BOTTOM @ ENDS
F632	E	2 series of 4	35'-1" to 14'-9"	299	1	35'-1" to 14'-9" by 6'-9¼"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
F633	E	2 series of 3	39'-3" to 38'-6"	350	1	39'-3" to 38'-6" by 4½"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
F534	E	10	7'-6"	78	17	2'-0"	3'-8"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
F1135	E	4	40'-4"	857	4	1'-11½"	37'-2"								CAP	
F1136	E	8	41'-6"	1764	4	1'-11½"	38'-4"								CAP	TOP
F1137	E	8	40'-1"	1704	1	40'-1"									CAP	TOP
F438	E	19	4'-8"	59	4	8"	3'-7"								CAP	TIE
F439	E	4	25'-1"	67	1	25'-1"									CAP	HORIZ. GIRDER SEATS
F440	E	4	13'-10"	37	1	13'-10"									CAP	HORIZ. GIRDER SEATS
F441	E	4	2'-7"	7	1	2'-7"									CAP	HORIZ. GIRDER SEATS
F442	E	36	8'-1"	194	4	2'-6"	3'-4"								CAP	VERTICAL GIRDER SEATS
F743	E	51	3'-2"	330	1	3'-2"									CAP	DIAPHRAGM DOWEL



TYPE 1 | TYPE 3 | TYPE 4 | TYPE 8 | TYPE 13 | TYPE 14 | TYPE 17

TOTAL NON-EPOXY REINFORCEMENT	WT (LB)	3521
TOTAL EPOXY REINFORCEMENT	WT (LB)	16429

STATE PROJECT NUMBER

1060-05-75

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

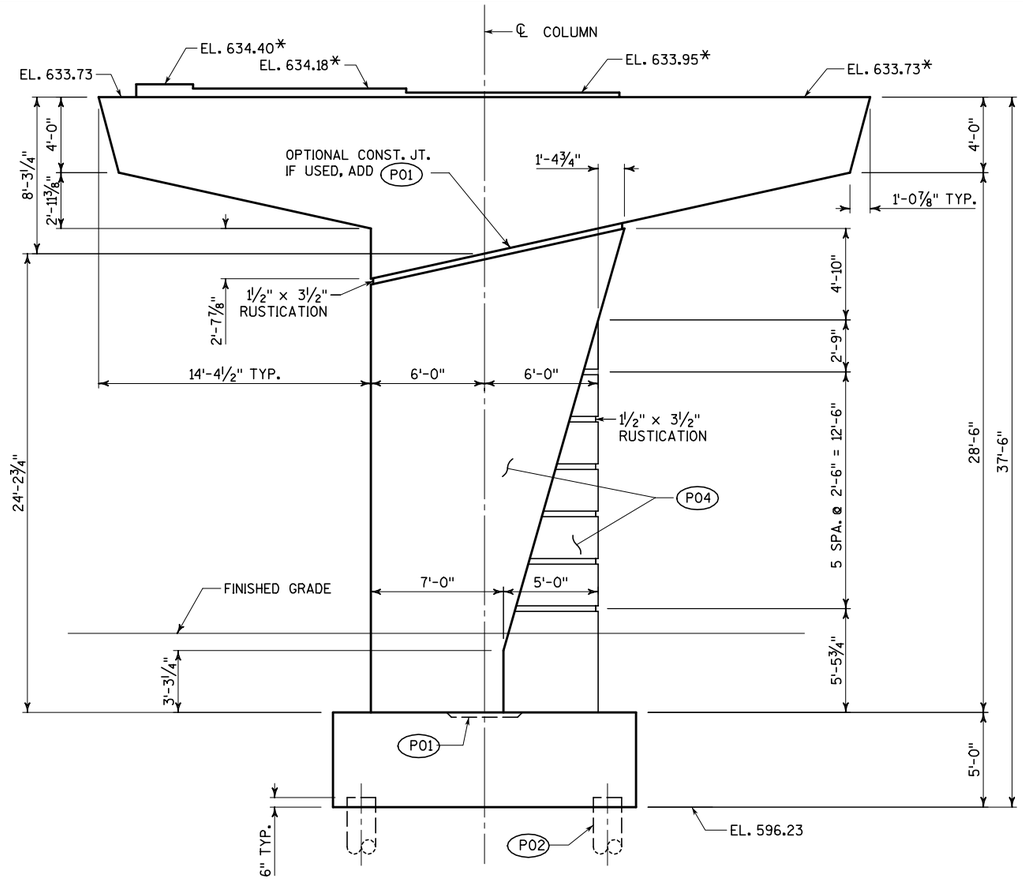
PIER P5-005
REINF. SCHEDULE

SHEET 275 OF 396

3143

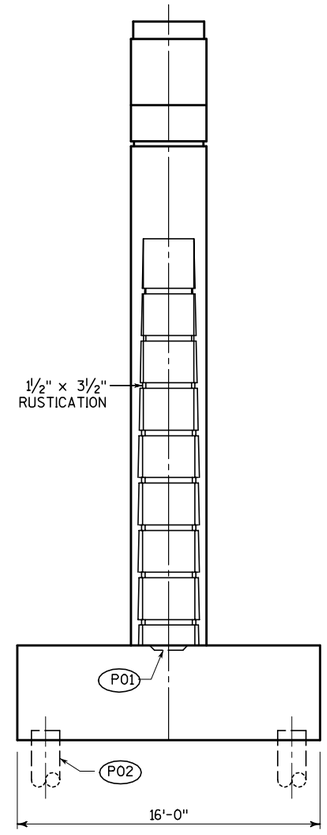
STATE PROJECT NUMBER

1060-05-75

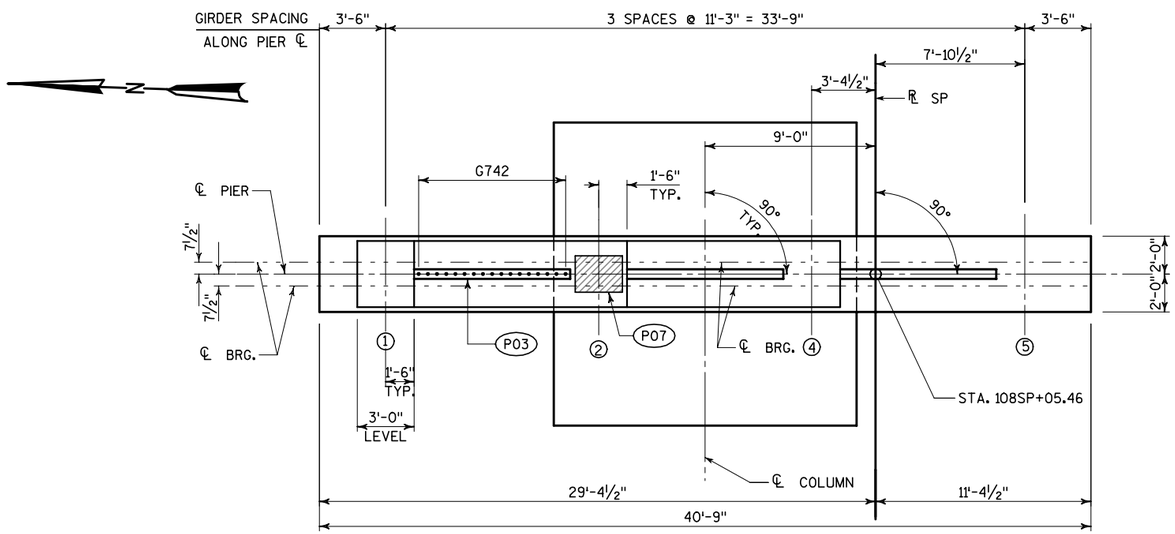


ELEVATION

(LOOKING EAST-SHOWING DIMENSIONS)



END ELEVATION



PLAN

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 230 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 85'.

(P03) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 2" X 6".

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 384.

(P07) ½" THICK ELASTOMERIC BEARING PAD, SEE SHEET 360 FOR DETAILS.

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P6-005

SHEET 276 OF 396

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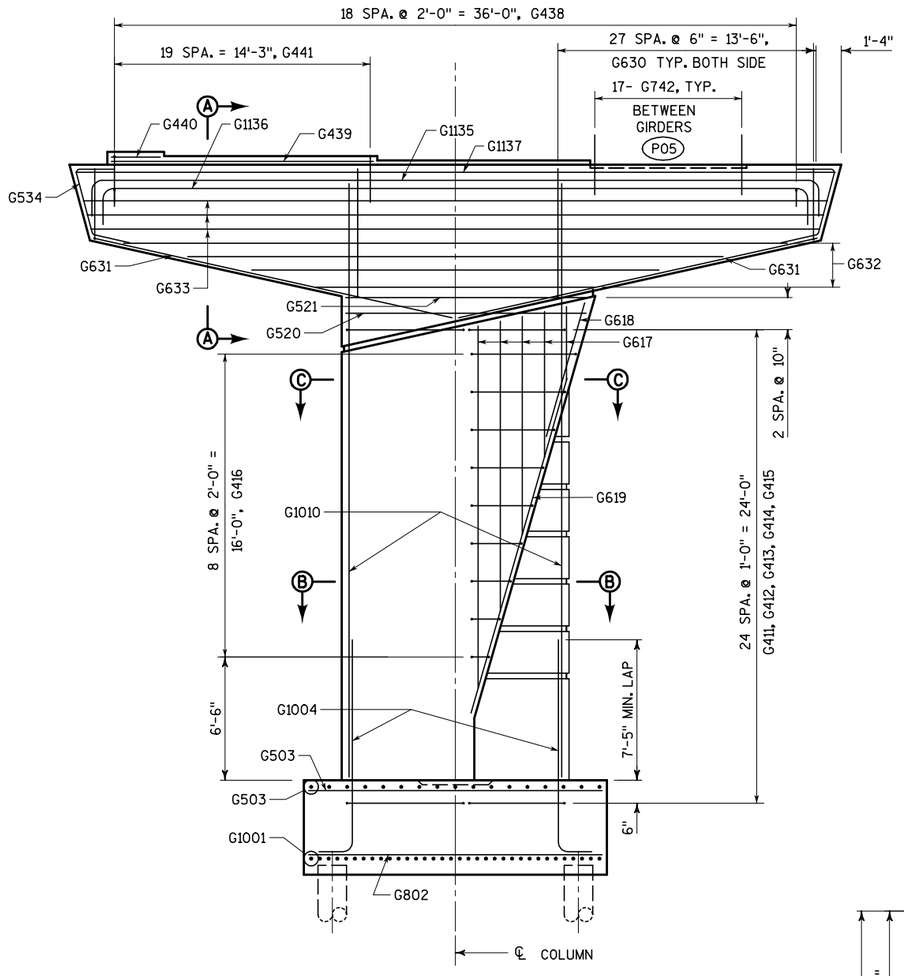
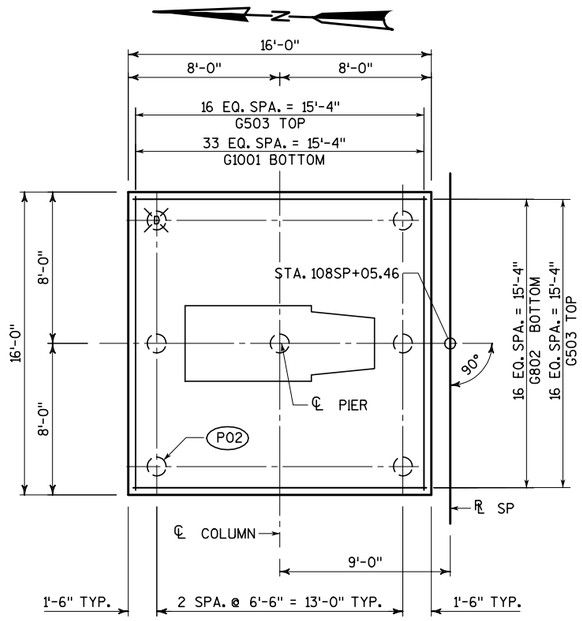
STATE PROJECT NUMBER
1060-05-75

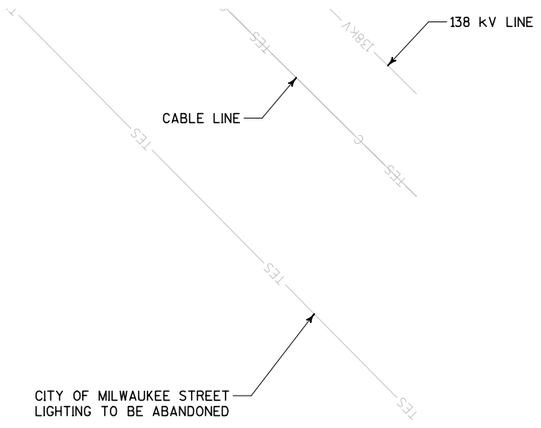


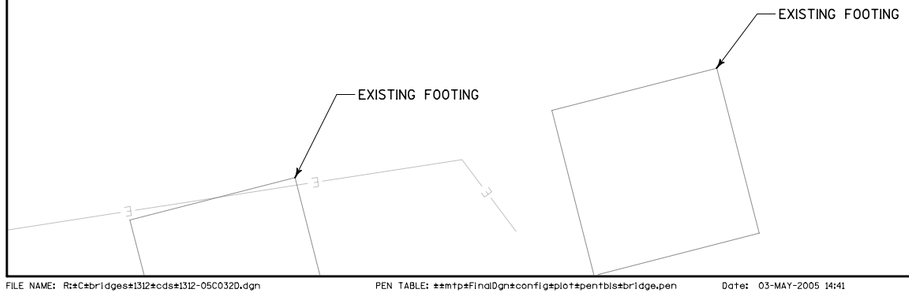
ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)



FOOTING PLAN





NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 230 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 85'.

(P05) G742 BARS AT 6 EQ. SPA. BETWEEN BEAM SEATS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. EMBED 1'-7".

D DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

PIER P6-005
REINF. LAYOUT

SHEET 277 OF 396

3145

8

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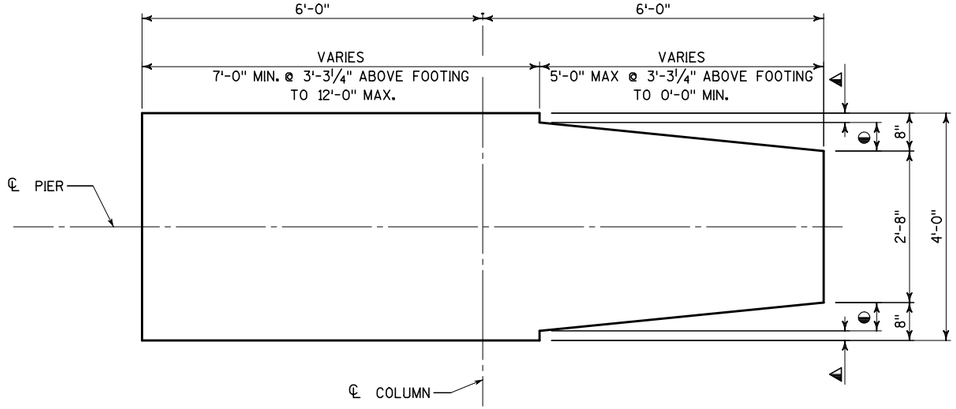
STATE PROJECT NUMBER
1060-05-75

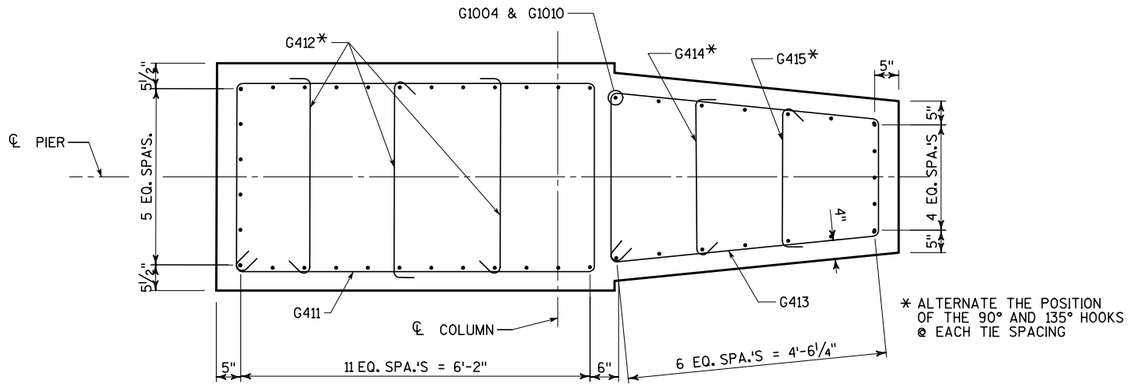


SECTION THRU COLUMN

(SHOWING DIMENSIONS)

◑ VARIES 6" MAX. @ 3'-3¼" ABOVE FOOTING TO 0" MIN.

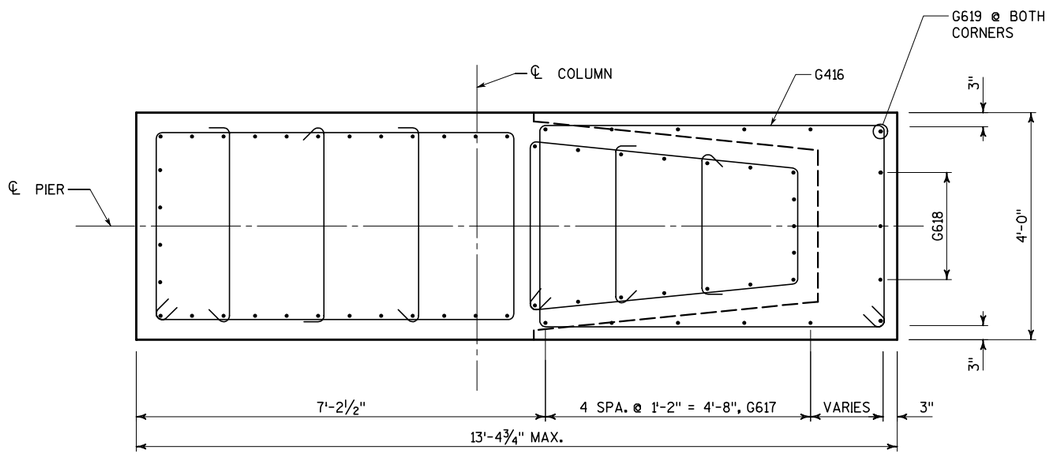
◭ VARIES 2" MIN. @ 3'-3¼" ABOVE FOOTING TO 8" MAX.



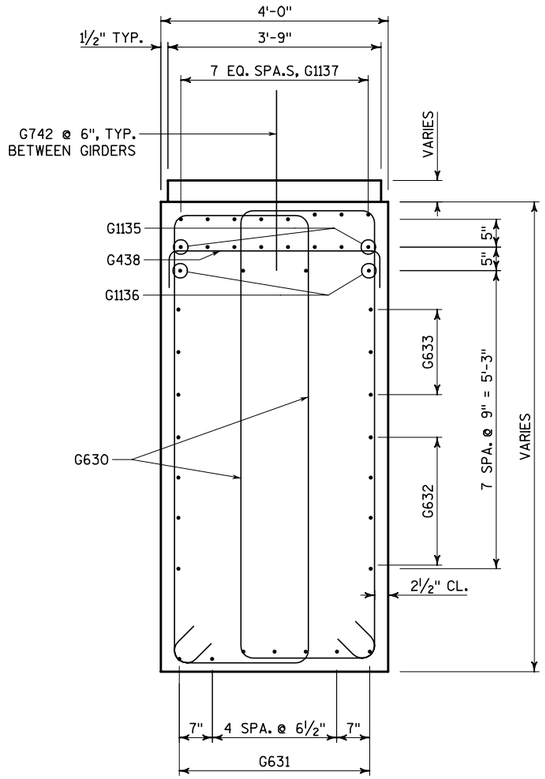
* ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS @ EACH TIE SPACING

SECTION B-B

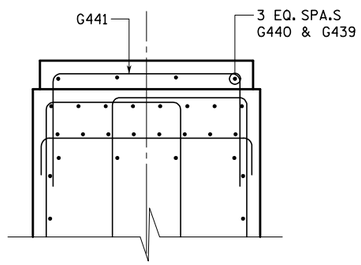
(SHOWING REINFORCEMENT)



SECTION C-C



SECTION A-A



SECTION THRU GIRDER SEAT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P6-005 DETAILS

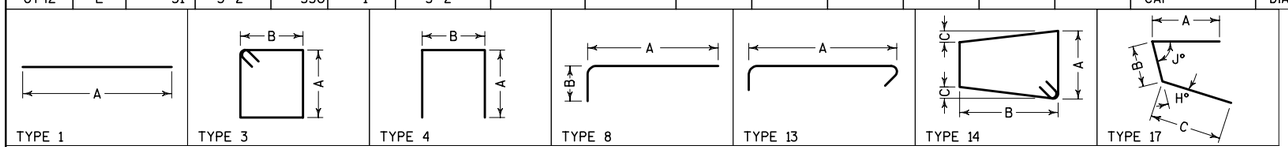
SHEET 278 OF 396

3146

8

STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
G1001		34	15'-6"	2268	1	15'-6"									FOOTING	BOTTOM
G802		17	15'-6"	704	1	15'-6"									FOOTING	BOTTOM
G503		34	15'-6"	550	1	15'-6"									FOOTING	TOP
G1004	E	45	13'-1"	2534	8	11'-7"									FOOTING	DOWEL
G1010	E	45	31'-4"	6068	1	31'-4"									COLUMN	VERTICAL
G411	E	25	19'-10"	331	3	6'-4"	3'-4"								COLUMN	TIES
G412	E	75	4'-0"	200	13	3'-4"									COLUMN	TIES
G413	E	25	15'-1"	252	14	3'-0"	4'-9"	6"							COLUMN	TIES
G414	E	25	3'-4"	56	13	2'-8½"									COLUMN	TIES
G415	E	25	3'-1"	51	13	2'-5"									COLUMN	TIES
G416	E	1 series of 9	9'-7" to 18'-9"	85	3	11½" to 5'-6½" by 6⅞"	3'-7"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
G617	E	2 series of 5	19'-2" to 3'-11"	173	1	19'-2" to 3'-11" by 3'-9¾"									COLUMN	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
G618	E	3	7'-4"	33	1	7'-4"									COLUMN	VERTICAL
G619	E	2	18'-5"	55	1	18'-5"									COLUMN	VERTICAL
G520	E	1	33'-2"	35	3	12'-8½"	3'-7"								COLUMN	TIE, TOP OF COLUMN
G521	E	1	33'-7"	35	3	12'-11"	3'-7"								COLUMN	TIE, TOP OF COLUMN
G630	E	4 series of 28	12'-9" to 18'-9"	2647	3	3'-8" to 6'-8" by 1⅜"	2'-5"								CAP	STIRRUPS
G631	E	14	19'-5"	408	1	19'-5"									CAP	BOTTOM @ ENDS
G632	E	2 series of 4	35'-1" to 14'-9"	299	1	35'-1" to 14'-9" by 6'-9¼"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
G633	E	2 series of 3	39'-3" to 38'-6"	350	1	39'-3" to 38'-6" by 4½"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
G534	E	10	7'-6"	78	17	2'-0"	3'-8"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
G1135	E	8	41'-8"	1771	4	1'-11½"	38'-6"								CAP	TOP
G1136	E	4	40'-6"	861	4	1'-11½"	37'-4"								CAP	TOP
G1137	E	8	40'-1"	1704	1	40'-1"									CAP	TOP
G438	E	20	4'-8"	62	4	8"	3'-7"								CAP	TIE
G439	E	4	13'-10"	37	1	13'-10"									CAP	HORIZ. GIRDER SEATS
G440	E	4	2'-7"	7	1	2'-7"									CAP	HORIZ. GIRDER SEATS
G441	E	20	7'-1"	95	4	2'-0"	3'-4"								CAP	VERTICAL GIRDER SEATS
G742	E	51	3'-2"	330	1	3'-2"									CAP	DIAPHRAGM DOWEL



TOTAL NON-EPOXY REINFORCEMENT	WT (LB)	3521
TOTAL EPOXY REINFORCEMENT	WT (LB)	18558

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P6-005
REINF. SCHEDULE

SHEET 279 OF 396
3147

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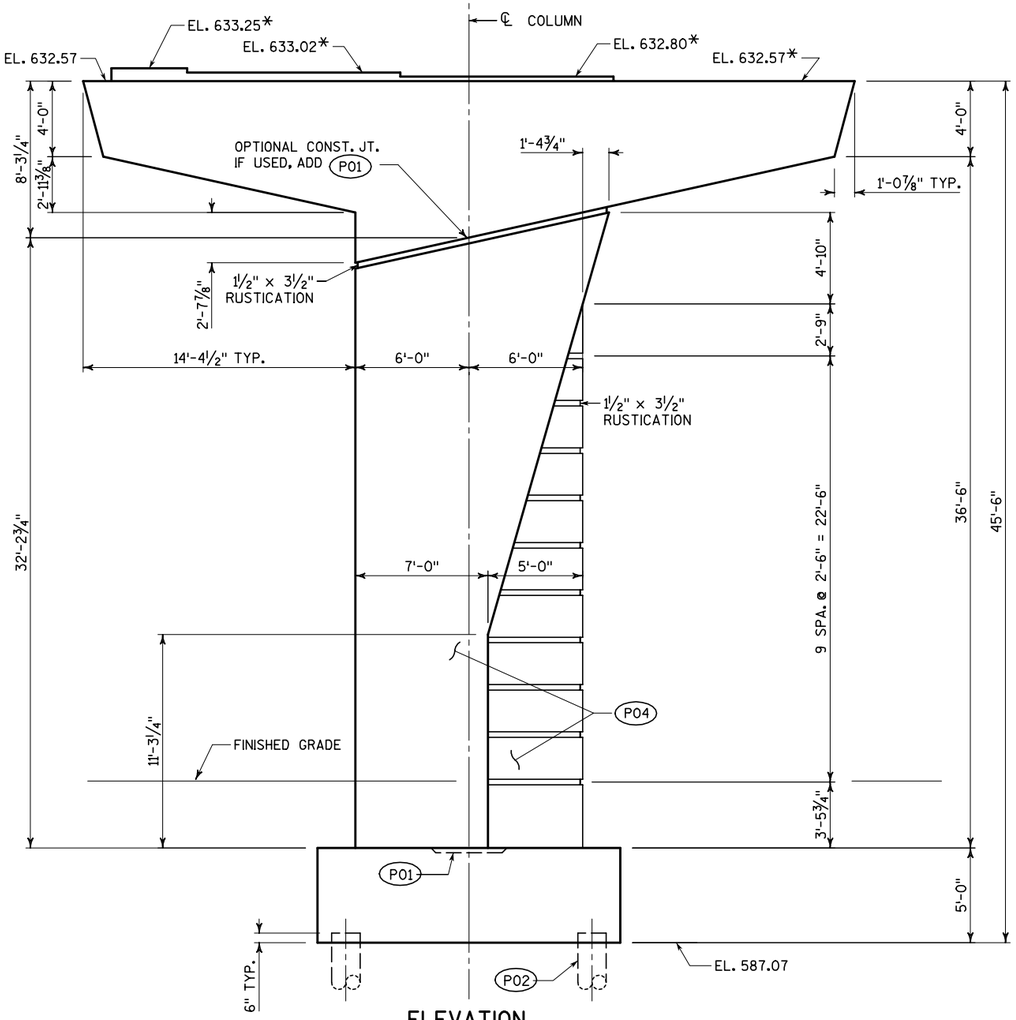
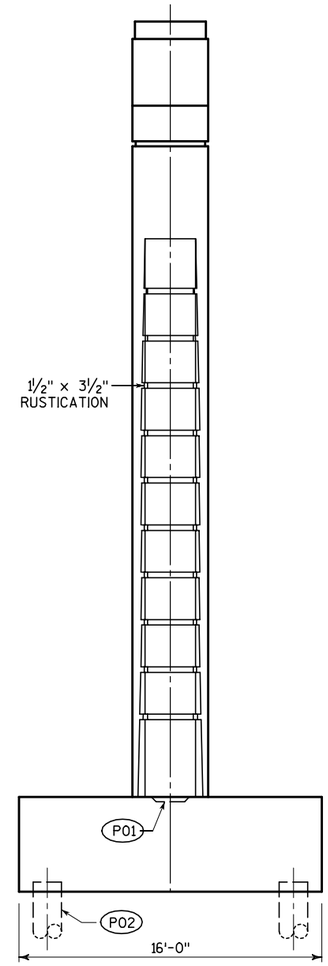
STATE PROJECT NUMBER

1060-05-75

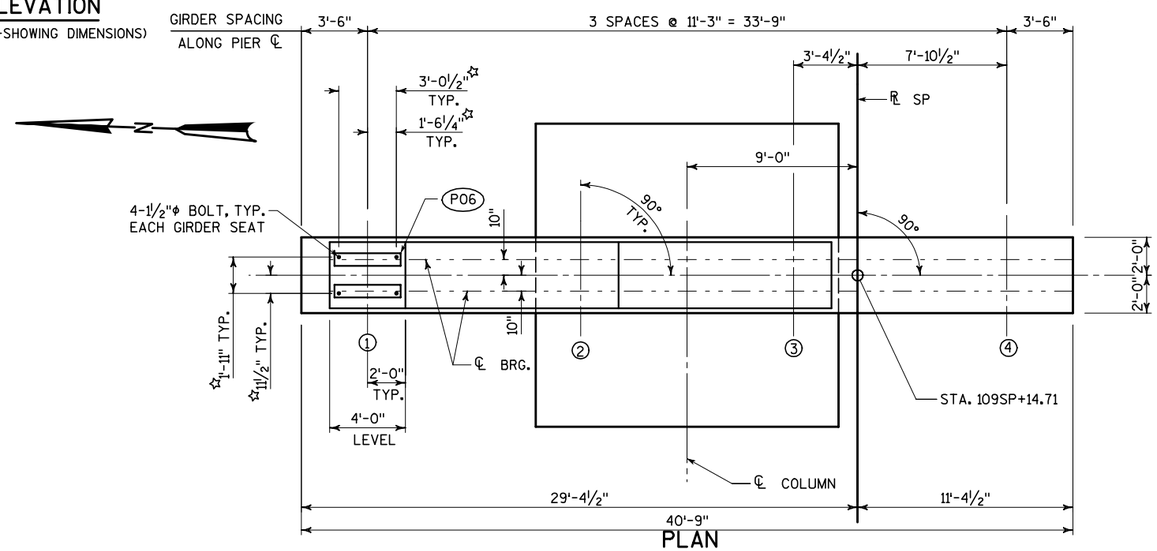


ELEVATION

(LOOKING EAST-SHOWING DIMENSIONS)



END ELEVATION



PLAN

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 230 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 75'.

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 384.

(P06) 1½" X 8" X 3'-6" MASONRY PLATE, SEE "PRESTRESSED GIRDER BEARINGS" SHEET FOR DETAILS.

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

☆ DIMENSIONS ARE GIVEN TO THE ℄ OF ANCHOR BOLTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P7-005

SHEET 280 OF 396

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8

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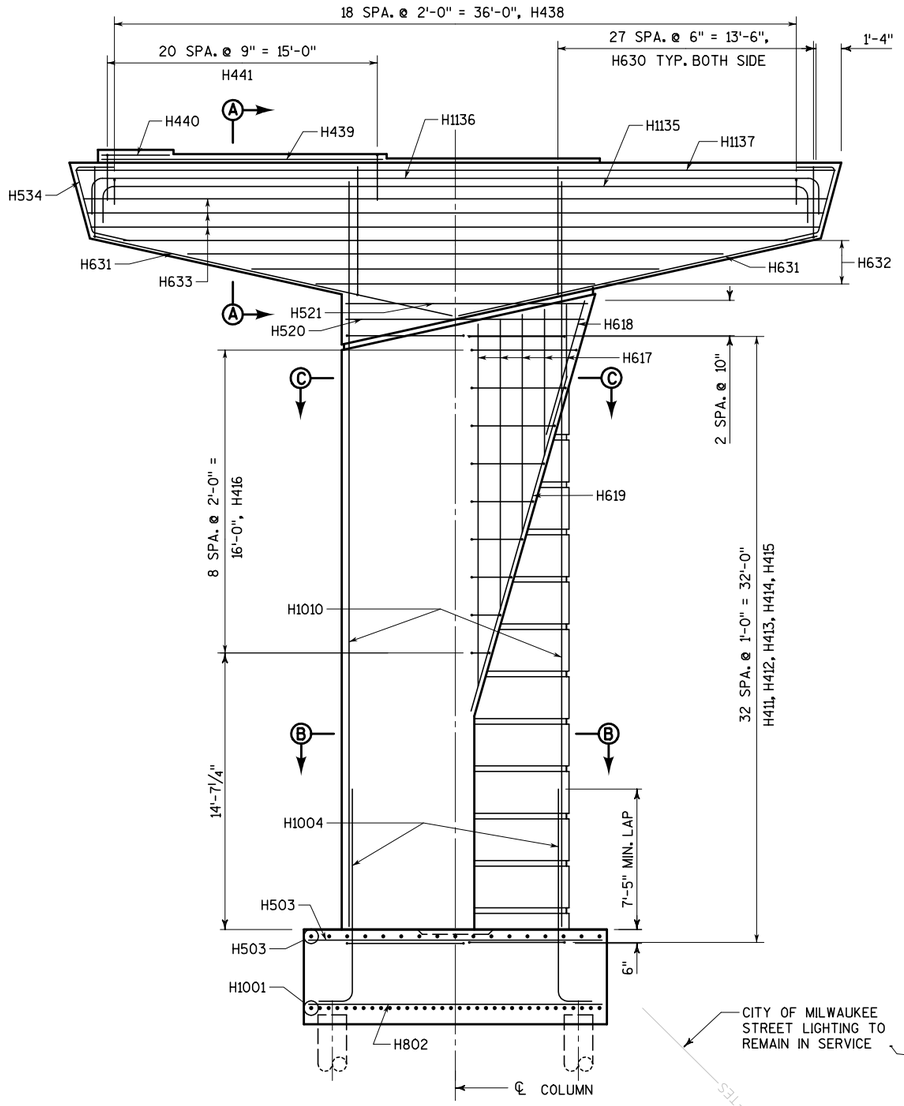
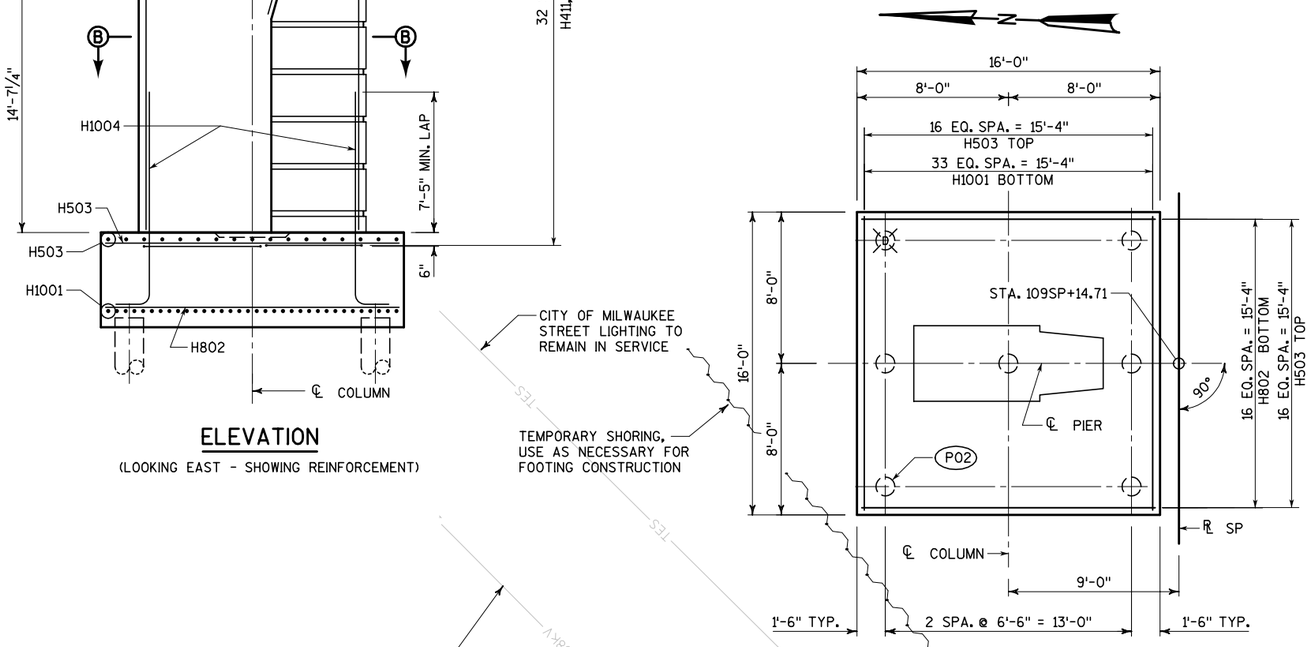
STATE PROJECT NUMBER
1060-05-75



ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)



FOOTING PLAN

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 230 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 75'.

(D) DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P7-005 REINF. LAYOUT

SHEET 281 OF 396

3149

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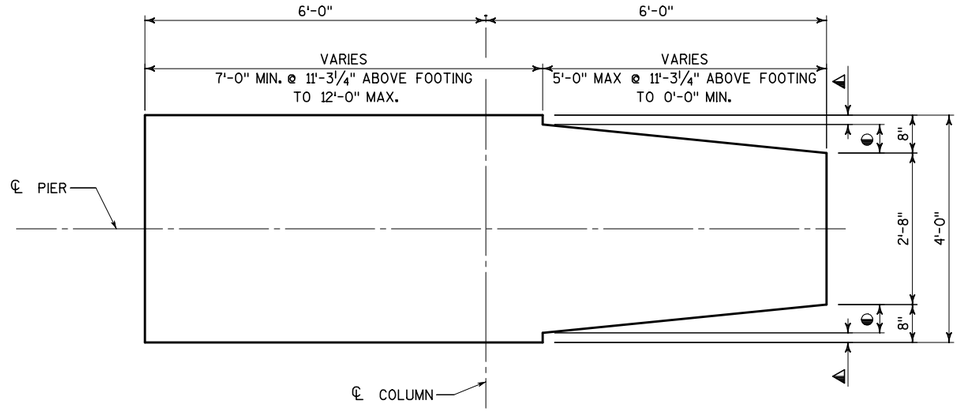
STATE PROJECT NUMBER
1060-05-75

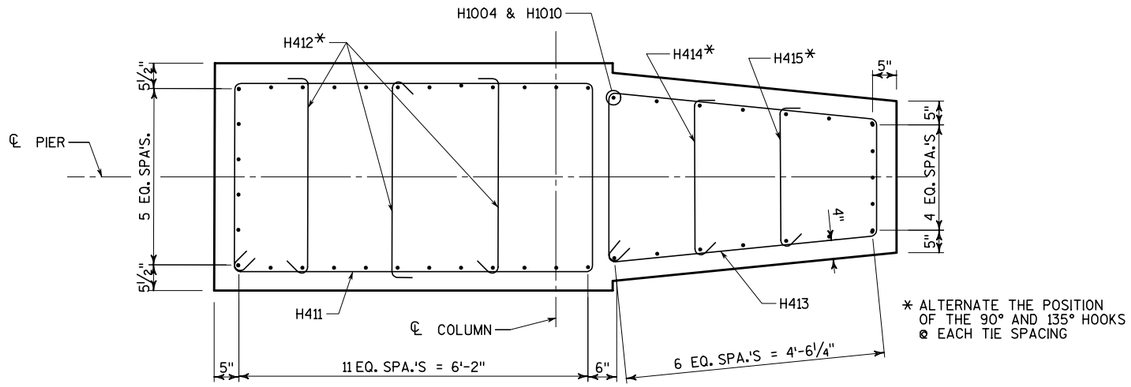


SECTION THRU COLUMN

(SHOWING DIMENSIONS)

◑ VARIES 6" MAX. @ 11'-3¼" ABOVE FOOTING TO 0" MIN.

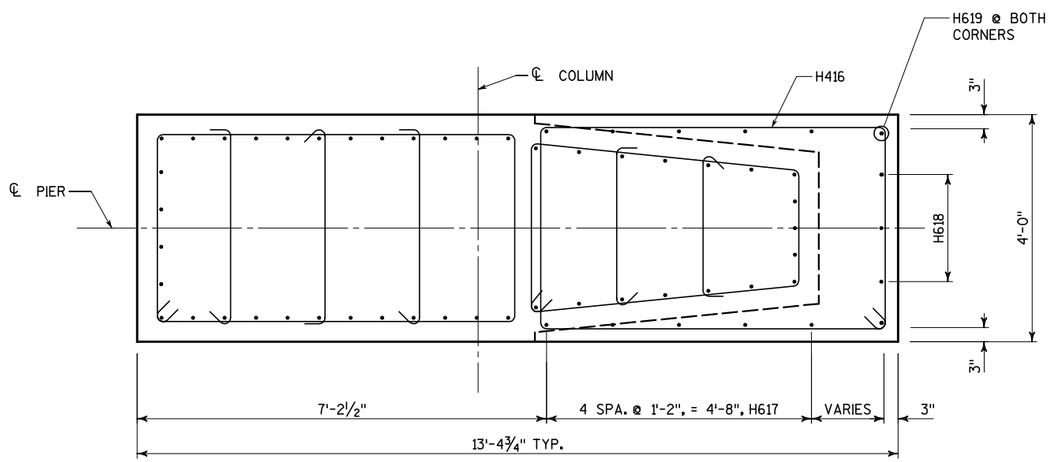
◭ VARIES 2" MIN. @ 11'-3¼" ABOVE FOOTING TO 8" MAX.



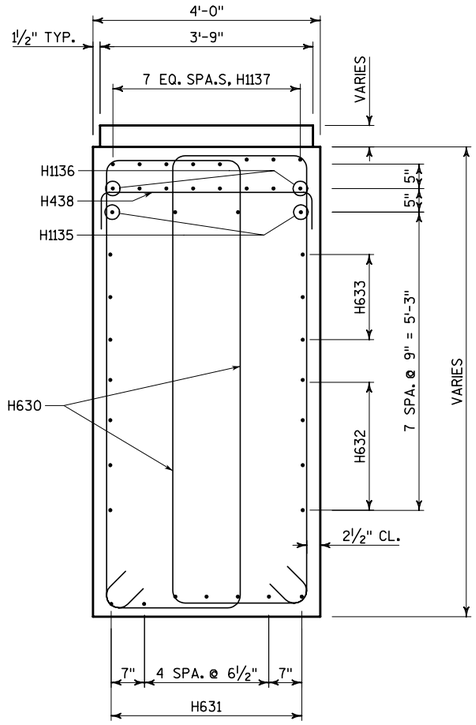
* ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS @ EACH TIE SPACING

SECTION B-B

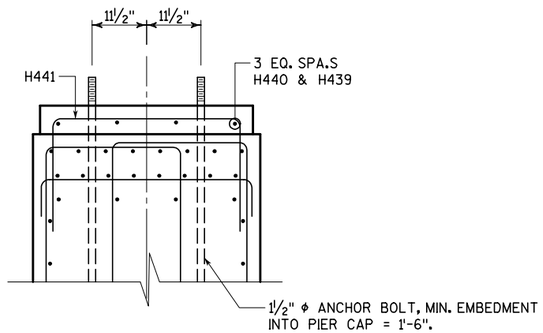
(SHOWING REINFORCEMENT)



SECTION C-C



SECTION A-A



SECTION THRU GIRDER SEAT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P7-005 DETAILS

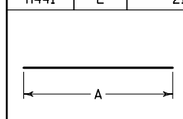
SHEET 282 OF 396

3150

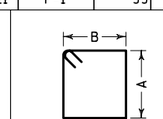
8

STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
H1001		34	15'-6"	2268	S	15'-6"									FOOTING	BOTTOM
H802		17	15'-6"	704	S	15'-6"									FOOTING	BOTTOM
H503		34	15'-6"	550	S	15'-6"									FOOTING	TOP
H1004	E	45	13'-1"	2534	8	11'-7"									FOOTING	DOWEL
H1010	E	45	39'-4"	7617	1										COLUMN	VERTICAL
H411	E	33	19'-10"	437	3	6'-4"	3'-4"								COLUMN	TIES
H412	E	99	4'-0"	265	13	3'-4"									COLUMN	TIES
H413	E	33	15'-1"	333	14	3'-0"	4'-9"	6"							COLUMN	TIES
H414	E	33	3'-4"	73	13	2'-8½"									COLUMN	TIES
H415	E	33	3'-1"	68	13	2'-5"									COLUMN	TIES
H416	E	1 series of 9	18'-9" to 9'-7"	85	3	5'-6½" to 11½" by 6⅞"	3'-7"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
H617	E	2 series of 5	19'-2" to 3'-11"	173	S	19'-2" to 3'-11" by 3'-9¾"									COLUMN	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
H618	E	3	7'-4"	33	S	7'-4"									COLUMN	VERTICAL
H619	E	2	18'-5"	55	S	18'-5"									COLUMN	VERTICAL
H520	E	1	33'-1"	35	3	12'-8"	3'-7"								COLUMN	TIE, TOP OF COLUMN
H521	E	1	33'-5"	35	3	12'-10"	3'-7"								COLUMN	TIE, TOP OF COLUMN
H630	E	4 series of 28	12'-9" to 18'-9"	2647	3	3'-8" to 6'-8" by 1⅜"	2'-5"								CAP	STIRRUPS
H631	E	14	19'-5"	408	S	19'-5"									CAP	BOTTOM @ ENDS
H632	E	2 series of 4	35'-1" to 14'-9"	299	S	35'-1" to 14'-9" by 6'-9¼"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
H633	E	2 series of 3	39'-3" to 38'-6"	350	S	39'-3" to 38'-6" by 4½"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
H534	E	10	7'-6"	78	17	2'-0"	3'-8"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
H1135	E	4	40'-6"	861	4	1'-11½"	37'-4"								CAP	TOP
H1136	E	8	41'-8"	1771	4	1'-11½"	38'-6"								CAP	TOP
H1137	E	8	40'-1"	1704	S	40'-1"									CAP	TOP
H438	E	19	4'-8"	59	4	8"	3'-7"								CAP	TIE
H439	E	4	14'-10"	40	S	14'-10"									CAP	HORIZ. GIRDER SEATS
H440	E	4	3'-7"	10	S	3'-7"									CAP	HORIZ. GIRDER SEATS
H441	E	21	7'-1"	99	4	2'-0"	3'-4"								CAP	VERTICAL GIRDER SEATS



TYPE 1



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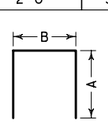

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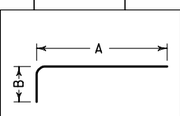
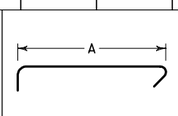
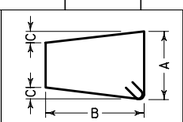


TYPE 8



TYPE 13



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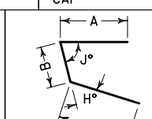


TYPE 17

TOTAL NON-EPOXY REINFORCEMENT WT (LB)	3521
TOTAL EPOXY REINFORCEMENT WT (LB)	20069

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

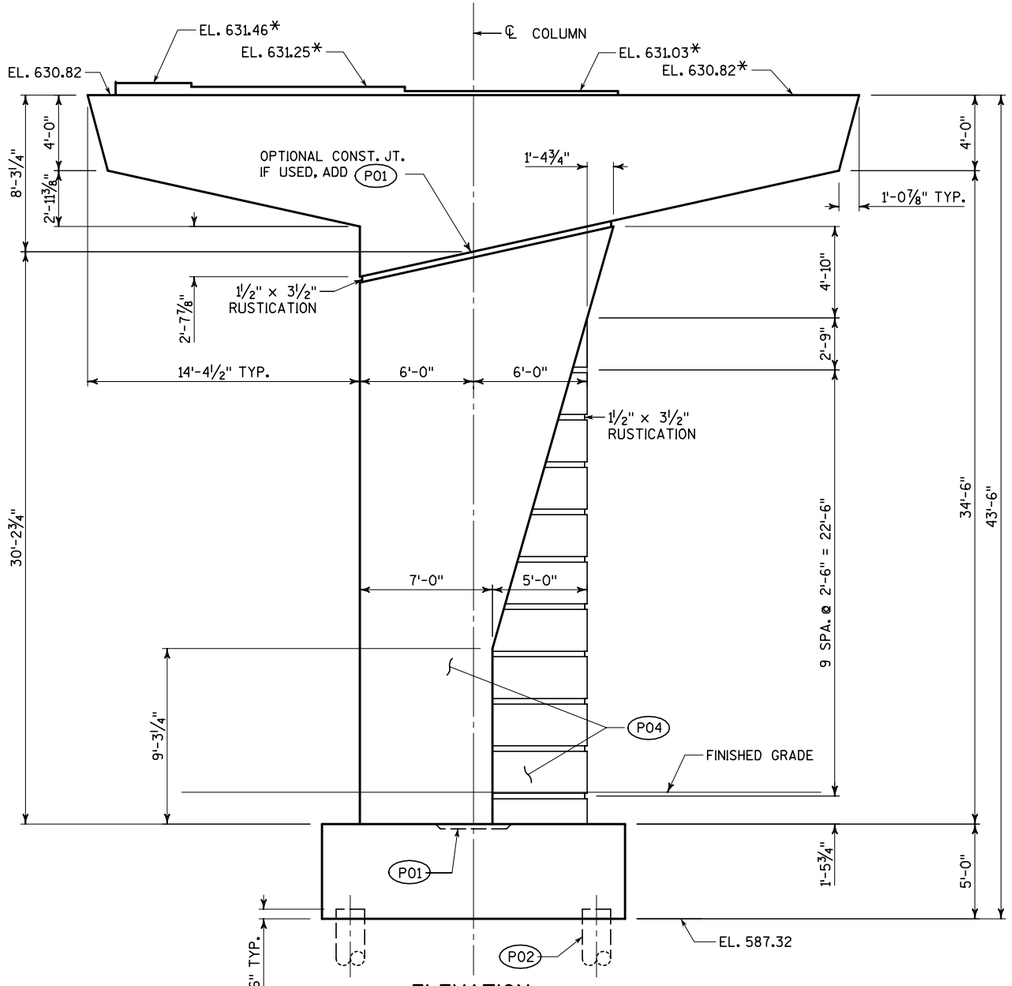
STRUCTURE B-40-1312 (005)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P7-005
REINF. SCHEDULE

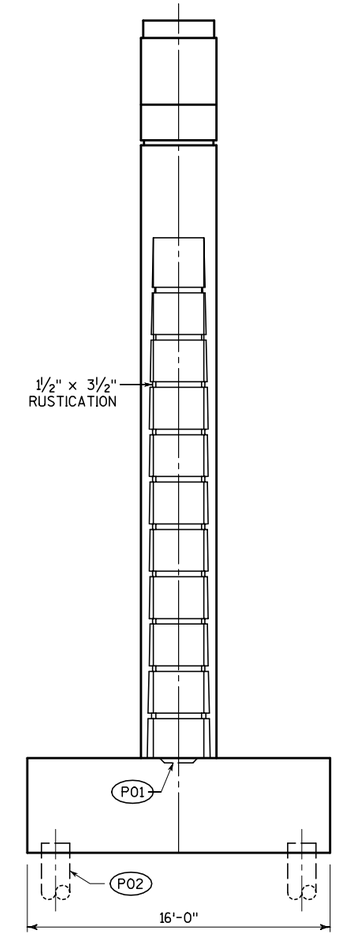
SHEET 283 OF 396
3151

STATE PROJECT NUMBER
1060-05-75

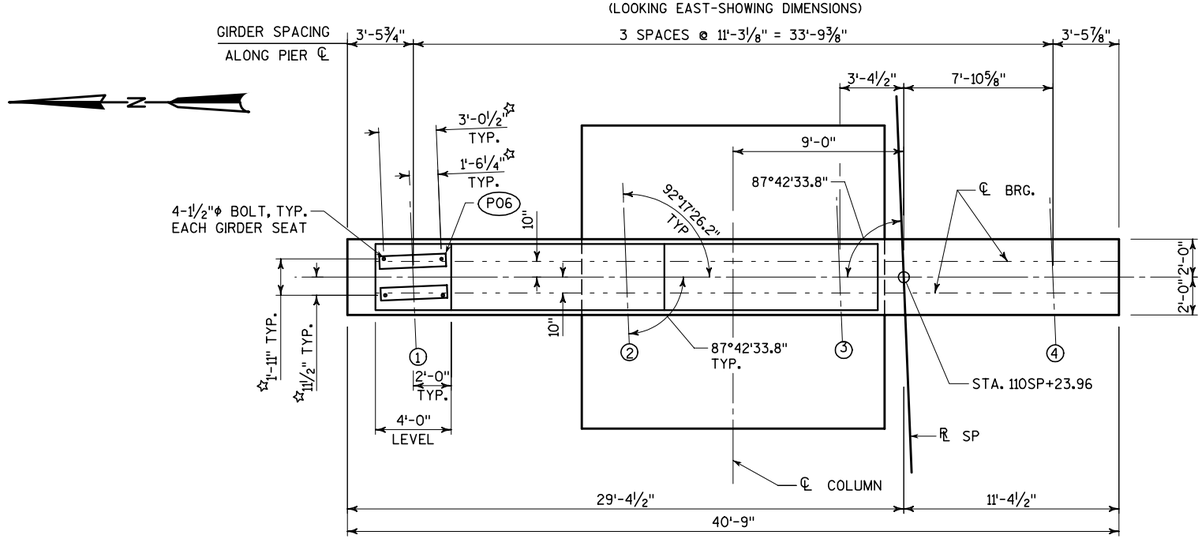


ELEVATION

(LOOKING EAST-SHOWING DIMENSIONS)



END ELEVATION



PLAN

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 230 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 75'.

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 384.

(P06) 1½" X 8" X 3'-6" MASONRY PLATE, SEE "PRESTRESSED GIRDER BEARINGS" SHEET FOR DETAILS.

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

☆ DIMENSIONS ARE GIVEN TO THE ℄ OF ANCHOR BOLTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P8-005

SHEET 284 OF 396

3152

8

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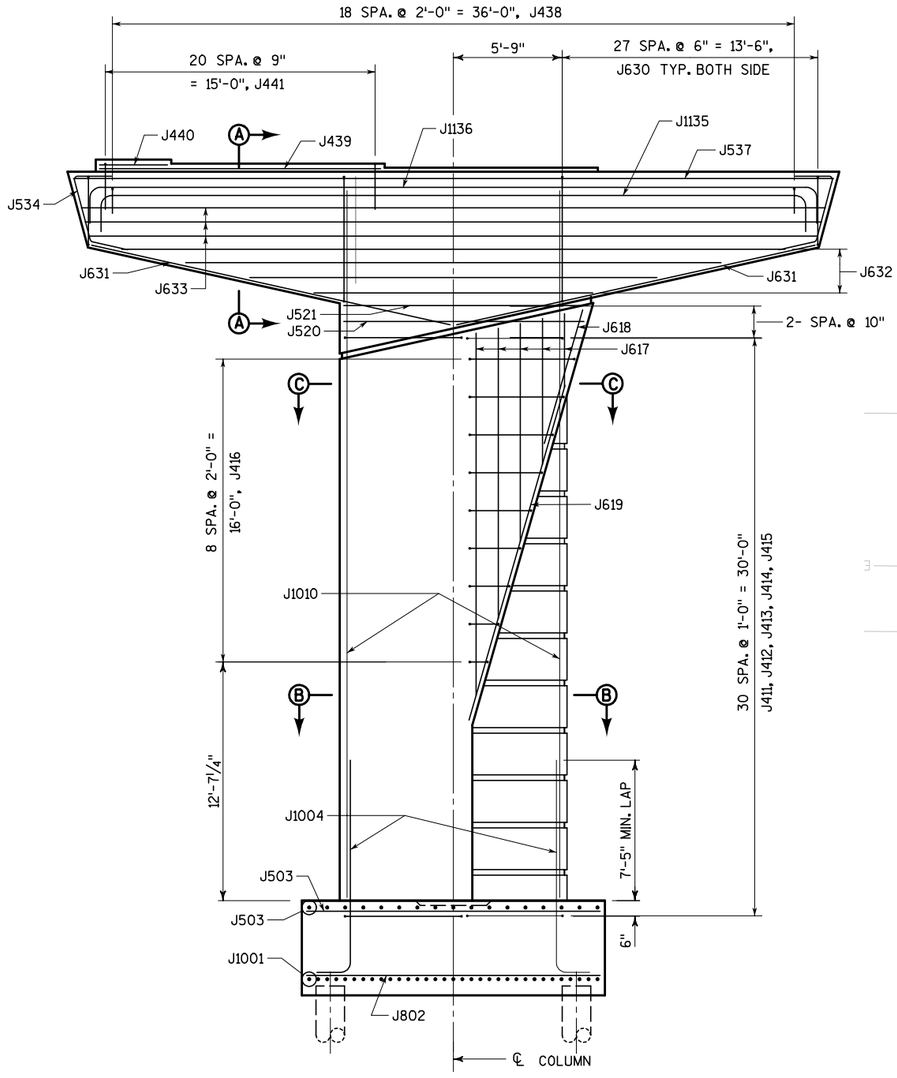
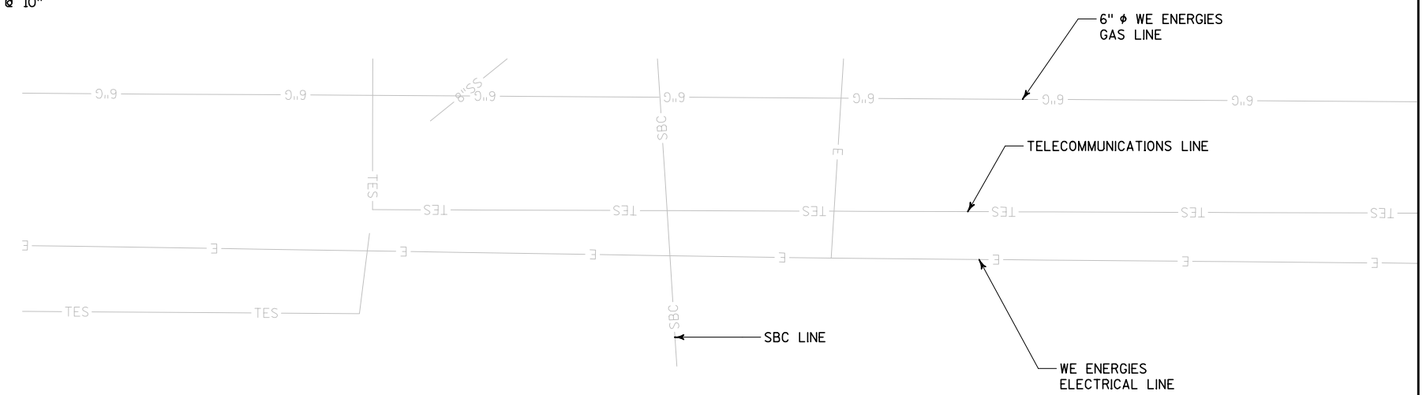
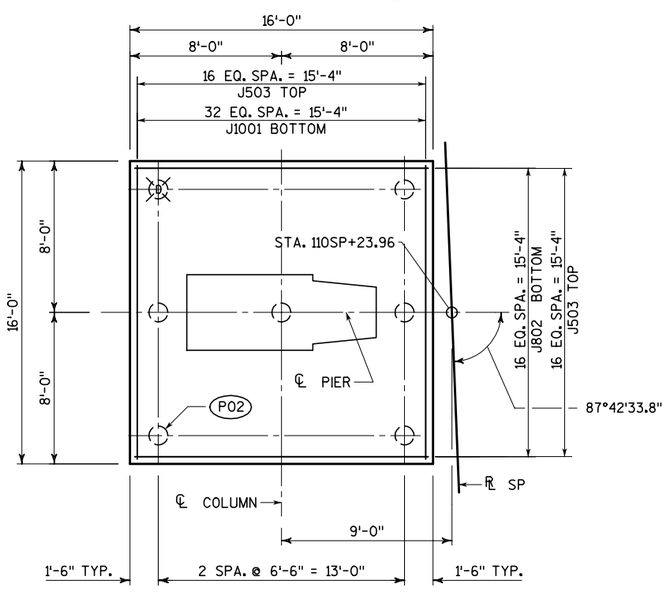
STATE PROJECT NUMBER
1060-05-75



ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)





FOOTING PLAN

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 230 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 75'.

(D) DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

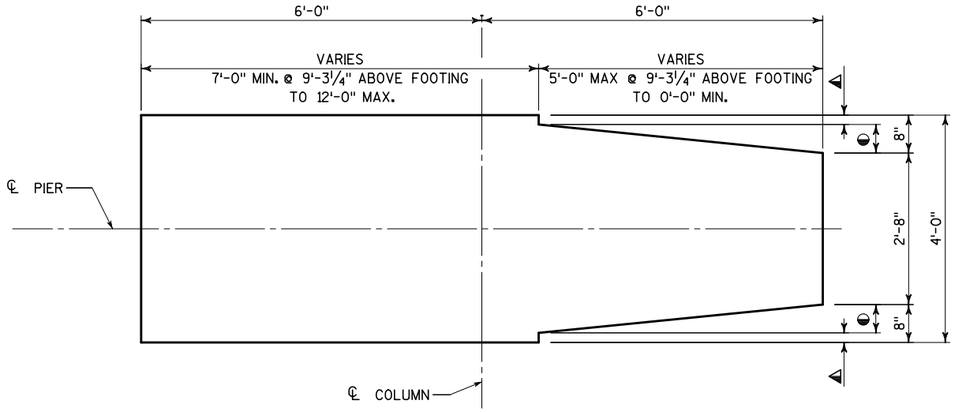
CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P8-005 REINF. LAYOUT

SHEET 285 OF 396

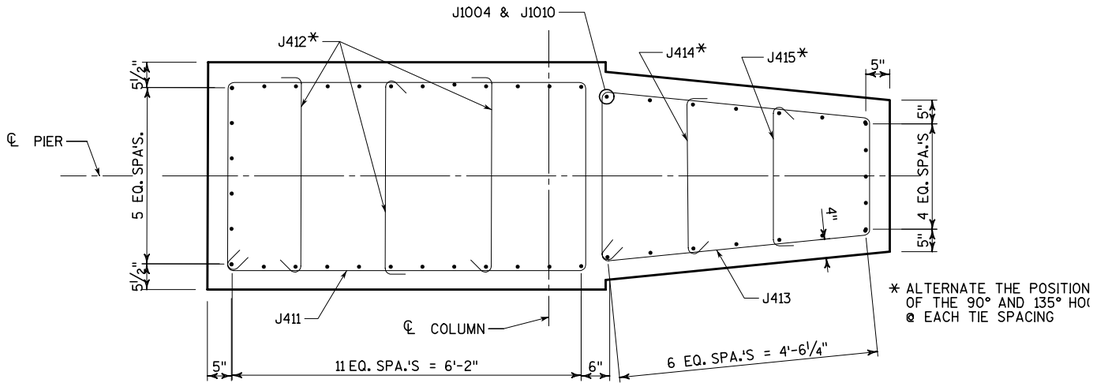
3153

STATE PROJECT NUMBER
1060-05-75

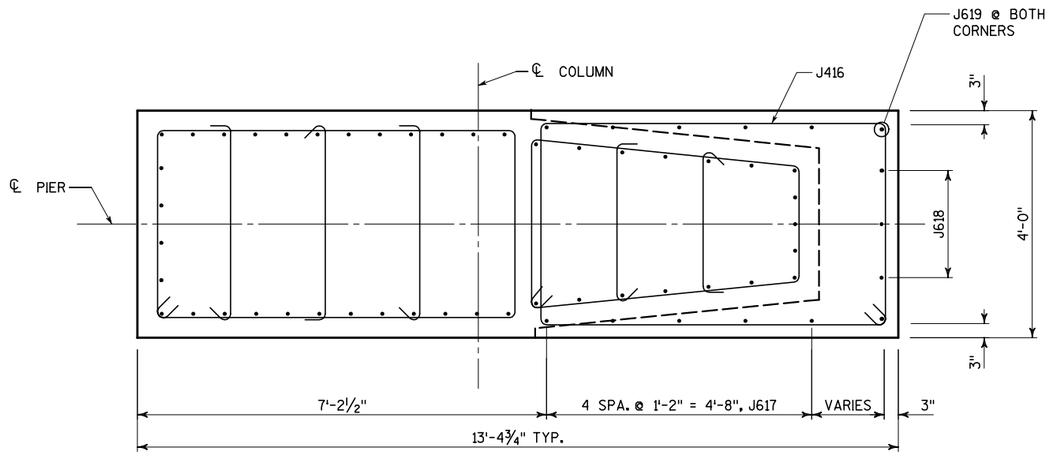


◑ VARIES 6" MAX. @ 9'-3¼" ABOVE FOOTING TO 0" MIN.
▲ VARIES 2" MIN. @ 9'-3¼" ABOVE FOOTING TO 8" MAX.

SECTION THRU COLUMN
(SHOWING DIMENSIONS)



SECTION B-B
(SHOWING REINFORCEMENT)



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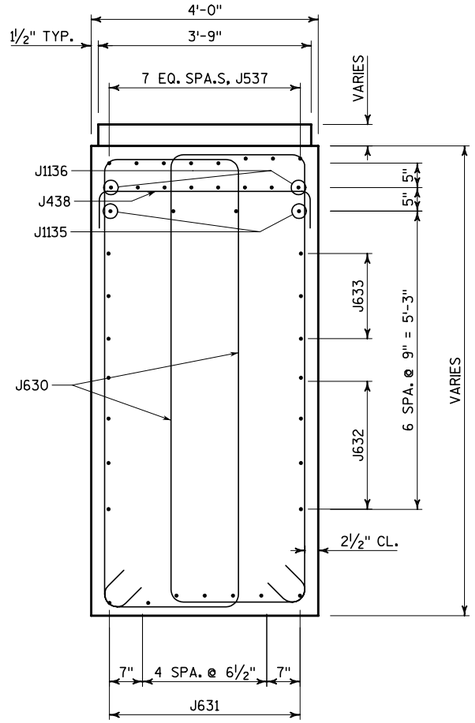
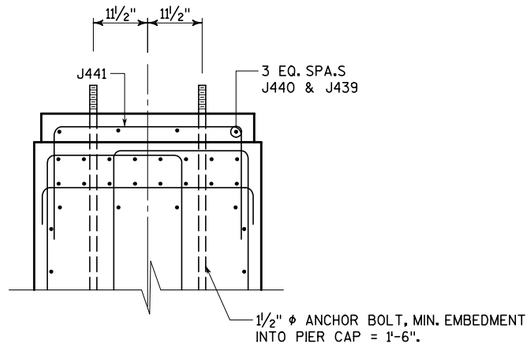


SECTION A-A



SECTION THRU GIRDER SEAT

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P8-005 DETAILS

SHEET 286 OF 396

3154

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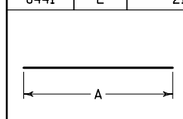
STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
J1001		33	15'-6"	2201	1	15'-6"									FOOTING	BOTTOM
J802		17	15'-6"	704	1	15'-6"									FOOTING	BOTTOM
J503		34	15'-6"	550	1	15'-6"									FOOTING	TOP
J1004	E	45	13'-1"	2534	8	11'-7"									FOOTING	DOWEL
J1010	E	45	37'-4"	7230	1	37'-4"									COLUMN	VERTICAL
J411	E	31	19'-10"	411	3	6'-4"	3'-4"								COLUMN	TIES
J412	E	93	4'-0"	249	13	3'-4"									COLUMN	TIES
J413	E	31	15'-1"	312	14	3'-0"	4'-9"	6"							COLUMN	TIES
J414	E	31	3'-4"	69	13	2'-8½"									COLUMN	TIES
J415	E	31	3'-1"	64	13	2'-5½"									COLUMN	TIES
J416	E	1 series of 9	18'-9" to 9'-7"	85	3	5'-6½" to 11½" by 6⅞"	3'-7"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
J617	E	2 series of 5	19'-2" to 3'-11"	173	1	19'-2" to 3'-11" by 3'-9¾"									COLUMN	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
J618	E	3	7'-4"	33	1	7'-4"									COLUMN	VERTICAL
J619	E	2	18'-5"	55	1	18'-5"									COLUMN	VERTICAL
J520	E	1	33'-2"	35	3	12'-8½"	3'-7"								COLUMN	TIE, TOP OF COLUMN
J521	E	1	33'-7"	35	3	12'-11"	3'-7"								COLUMN	TIE, TOP OF COLUMN
J630	E	4 series of 28	12'-7" to 18'-7"	2622	3	3'-7" to 6'-7" by 1⅜"	2'-5"								CAP	STIRRUPS
J631	E	14	19'-5"	408	1	19'-5"									CAP	BOTTOM @ ENDS
J632	E	2 series of 4	35'-1" to 14'-9"	299	1	35'-1" to 14'-9" by 6'-9¼"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
J633	E	2 series of 3	39'-3" to 38'-6"	350	1	39'-3" to 38'-6" by 4½"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
J534	E	10	7'-6"	78	17	2'-0"	3'-8"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
J1135	E	4	40'-6"	861	4	1'-11½"	37'-4"								CAP	TOP
J1136	E	8	41'-8"	1771	4	1'-11½"	38'-6"								CAP	TOP
J537	E	8	40'-2"	335	1	40'-2"									CAP	TOP
J438	E	19	4'-8"	59	4	8"	3'-7"								CAP	TIE
J439	E	4	14'-10"	40	1	14'-10"									CAP	HORIZ. GIRDER SEATS
J440	E	4	3'-7"	10	1	3'-7"									CAP	HORIZ. GIRDER SEATS
J441	E	21	7'-1"	99	4	2'-0"	3'-4"								CAP	VERTICAL GIRDER SEATS



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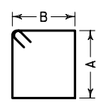

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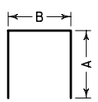

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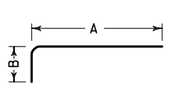

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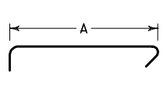
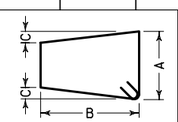
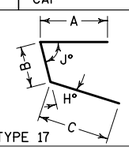


TYPE 13



TYPE 14



TYPE 17

TOTAL NON-EPOXY REINFORCEMENT WT (LB)	3454
TOTAL EPOXY REINFORCEMENT WT (LB)	18217

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P8-005
REINF. SCHEDULE

SHEET 287 OF 396
3155

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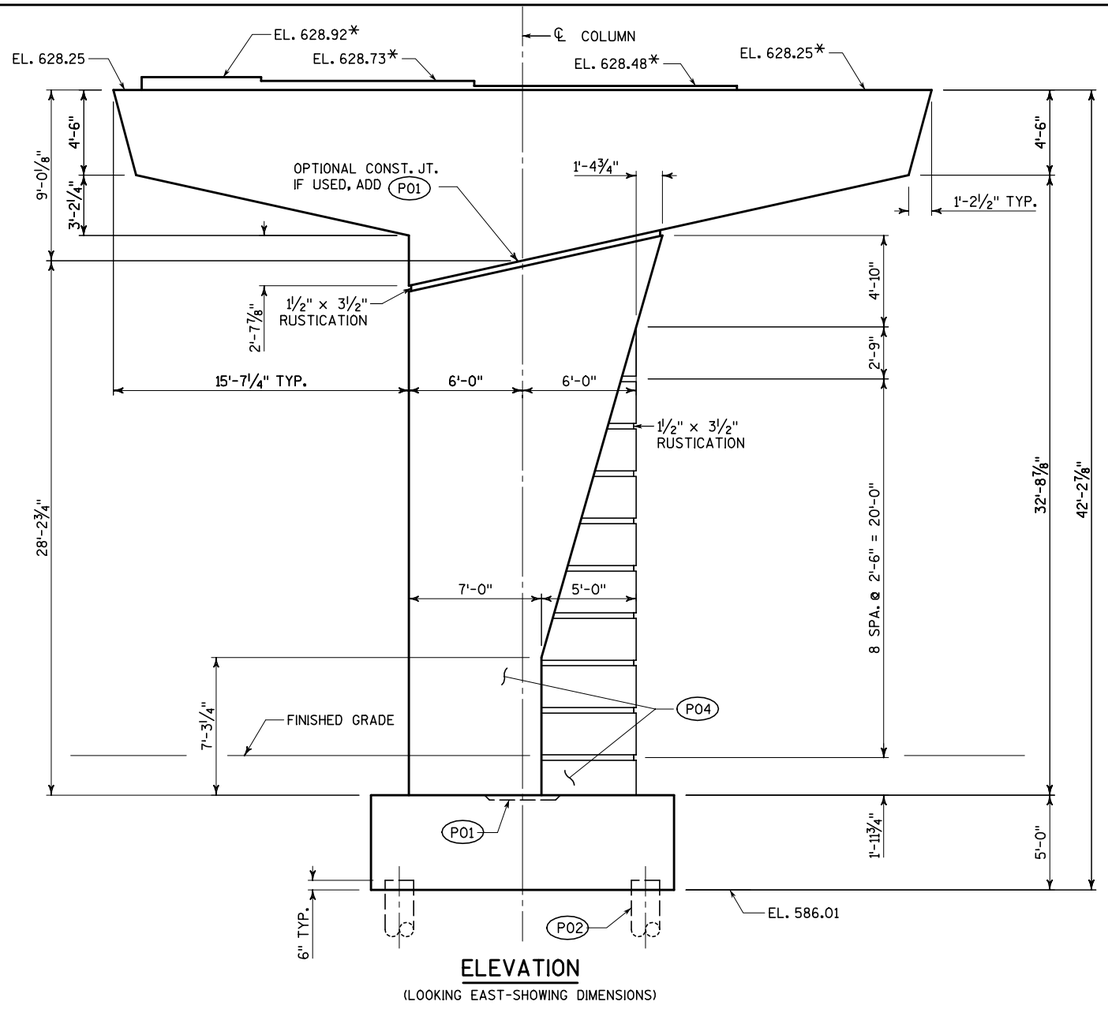
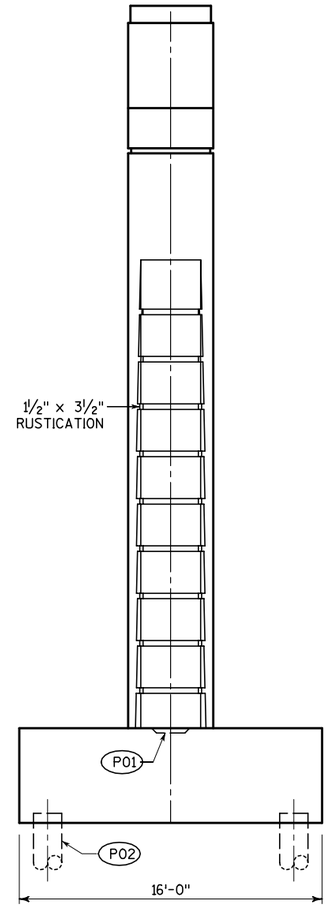
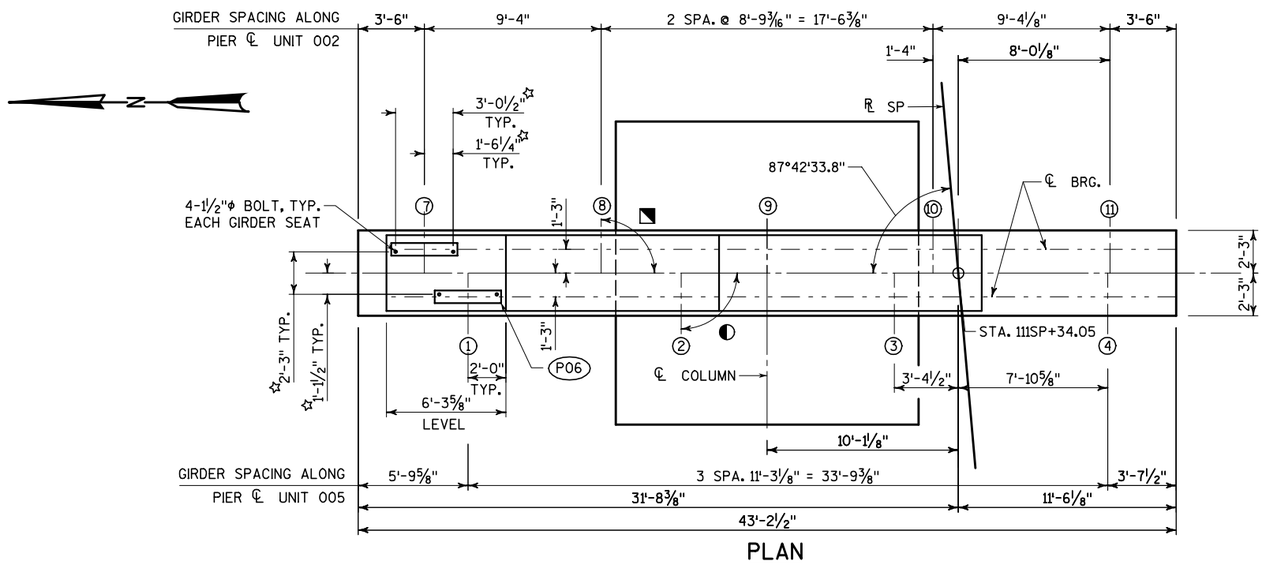


ELEVATION

(LOOKING EAST-SHOWING DIMENSIONS)



END ELEVATION



PLAN

BEARING ANGLE

LOCATION		ANGLE
UNIT 002 ◥	GIRDER 7	90°0'0.0"
	GIRDER 8	90°0'0.0"
	GIRDER 9	91°11'53.6"
	GIRDER 10	92°23'15.0"
	GIRDER 11	92°23'15.0"
UNIT 005 ◐	GIRDER 1	87°42'33.8"
	GIRDER 2	87°42'33.8"
	GIRDER 3	87°42'33.8"
	GIRDER 4	87°42'33.8"

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 230 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 75'.

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 384.

(P06) 1½" X 8" X 3'-6" MASONRY PLATE, SEE "PRESTRESSED GIRDER BEARINGS" SHEET FOR DETAILS.

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

☆ DIMENSIONS ARE GIVEN TO THE ℄ OF ANCHOR BOLTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

PIER P9-005

SHEET 288 OF 396

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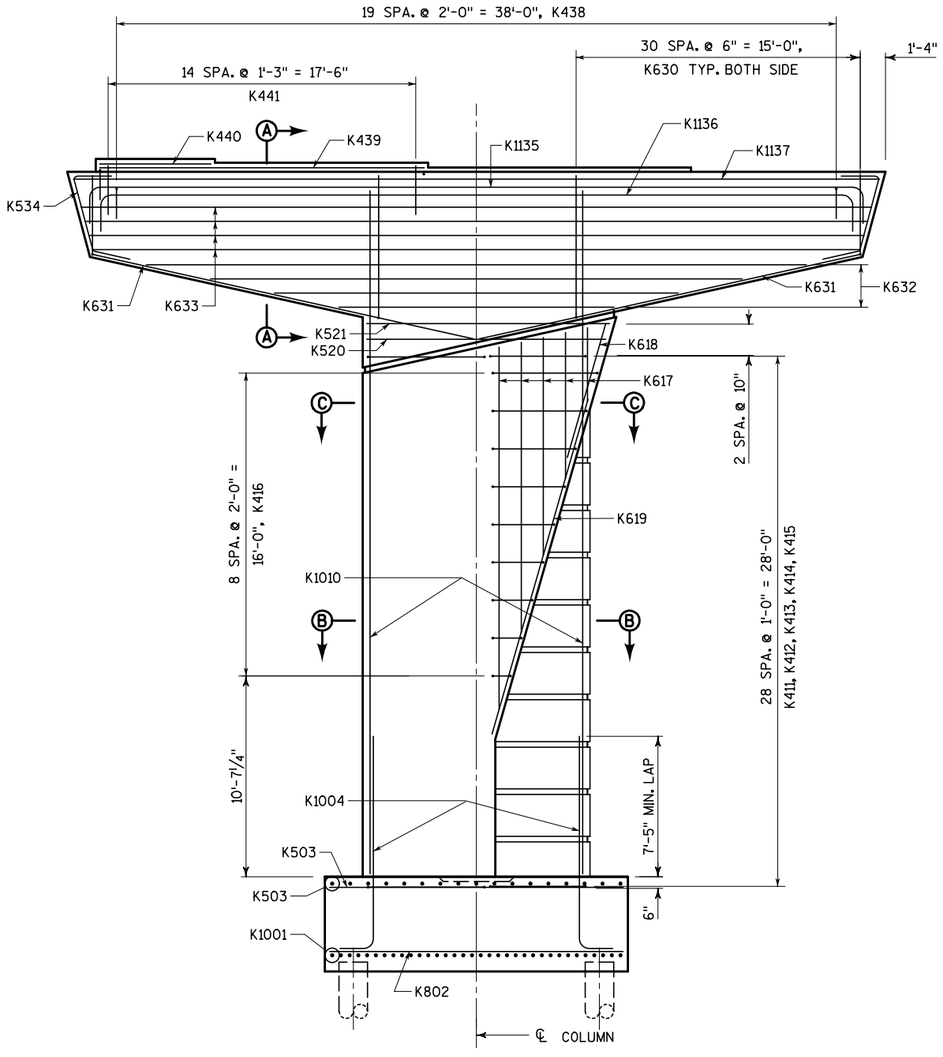
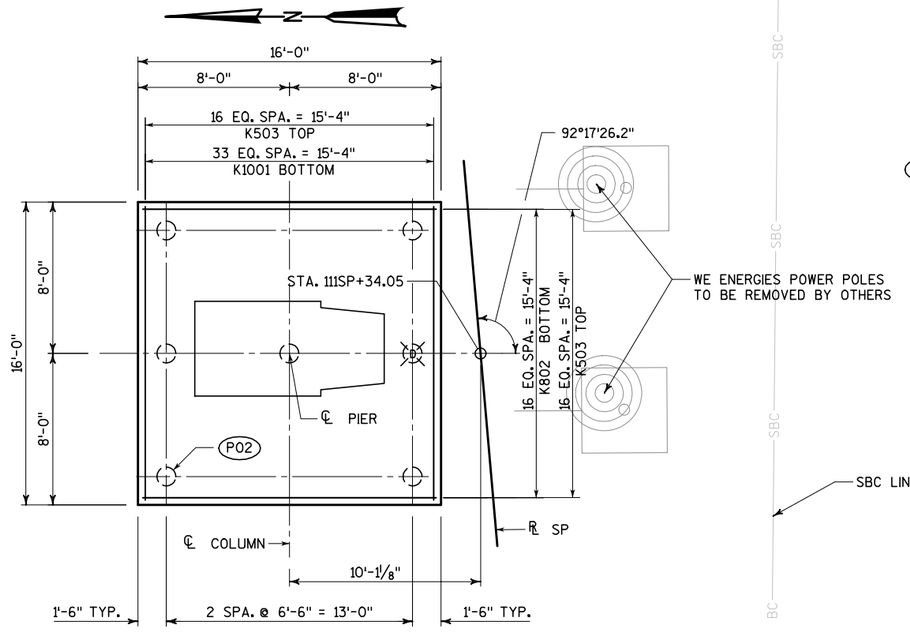
8

STATE PROJECT NUMBER
1060-05-75



ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)



FOOTING PLAN

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 230 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 75'.

DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

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NO.	DATE	REVISION	BY

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STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

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PIER P9-005 REINF. LAYOUT

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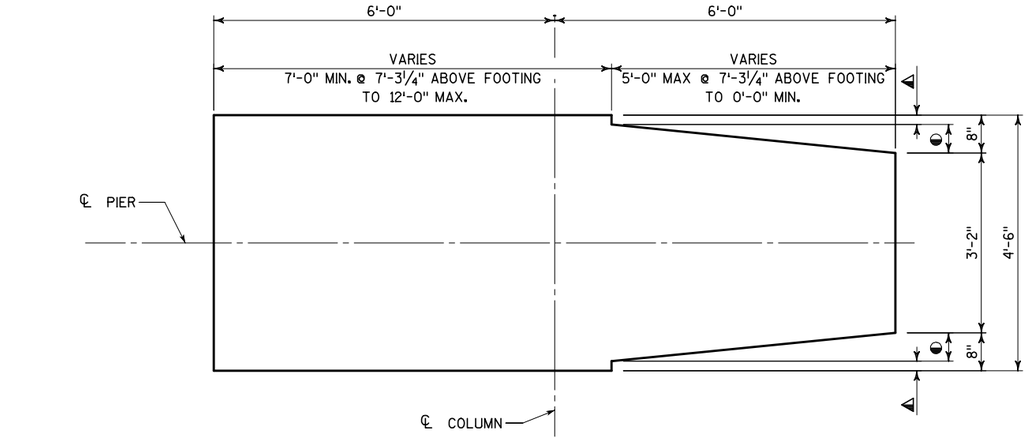
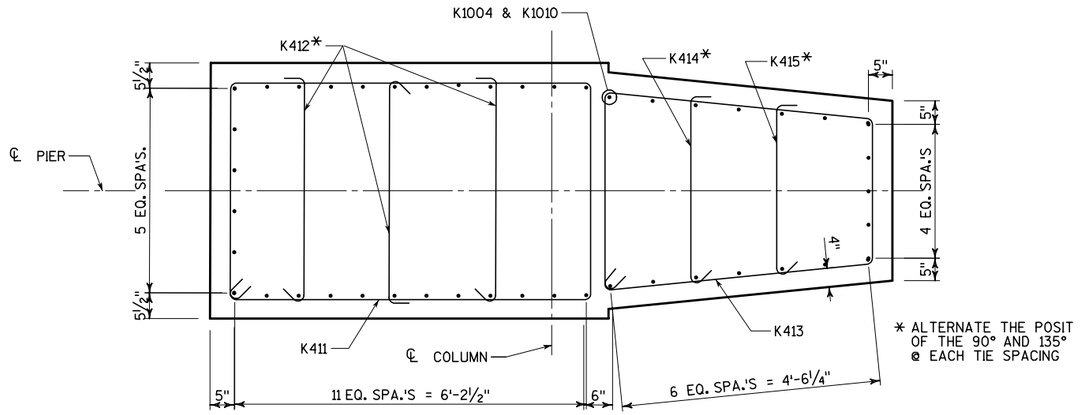


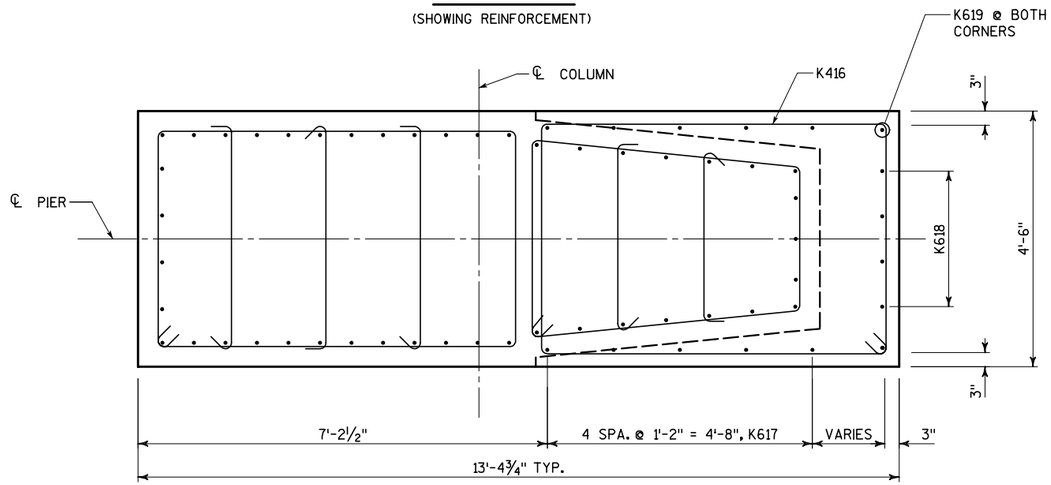
◑ VARIES 6" MAX. @ 7'-3¼" ABOVE FOOTING TO 0" MIN.
◭ VARIES 2" MIN. @ 7'-3¼" ABOVE FOOTING TO 8" MAX.

SECTION THRU COLUMN
(SHOWING DIMENSIONS)

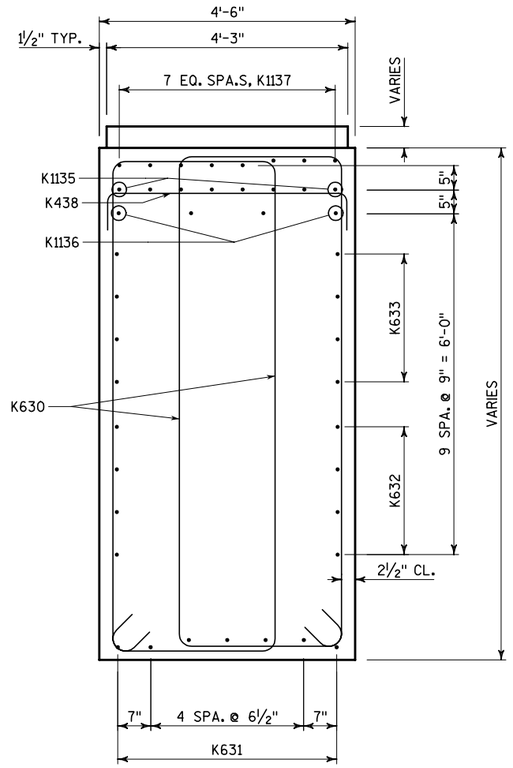


* ALTERNATE THE POSIT OF THE 90° AND 135° @ EACH TIE SPACING

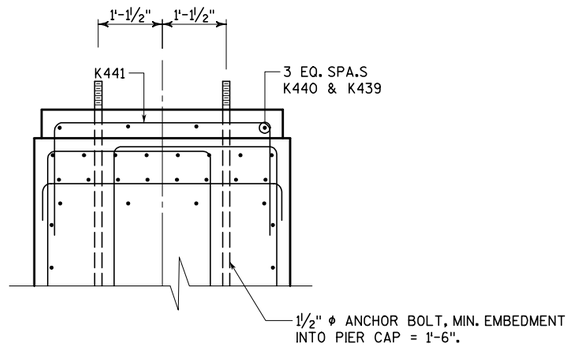
SECTION B-B
(SHOWING REINFORCEMENT)



SECTION C-C



SECTION A-A



SECTION THRU GIRDER SEAT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P9-005 DETAILS

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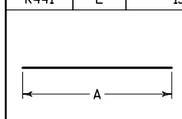
8

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
K1001		34	15'-6"	2268	1	15'-6"									FOOTING	BOTTOM
K802		17	15'-6"	704	1	15'-6"									FOOTING	BOTTOM
K503		34	15'-6"	550	1	15'-6"									FOOTING	TOP
K1004	E	45	13'-1"	2534	8	11'-7"									FOOTING	DOWEL
K1010	E	45	36'-1"	6988	1	36'-1"									COLUMN	VERTICAL
K411	E	29	20'-11"	405	3	6'-4½"	3'-10"								COLUMN	TIES
K412	E	87	4'-6"	262	13	3'-10"									COLUMN	TIES
K413	E	29	16'-1"	312	14	3'-6"	4'-9"	6"							COLUMN	TIES
K414	E	29	3'-5"	66	13	2'-9½"									COLUMN	TIES
K415	E	29	3'-1"	60	13	2'-5"									COLUMN	TIES
K416	E	1 series of 9	19'-9" to 10'-7"	91	3	5'-6½" to 11½" by 6⅞"	4'-1"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
K617	E	2 series of 5	19'-2" to 3'-11"	173	1	19'-2" to 3'-11" by 3'-9¾"									COLUMN	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
K618	E	4	7'-4"	44	1	7'-4"									COLUMN	VERTICAL
K619	E	2	18'-5"	55	1	18'-5"									COLUMN	VERTICAL
K520	E	1	34'-0"	35	3	12'-7½"	4'-1"								COLUMN	TIE, TOP OF COLUMN
K521	E	1	34'-5"	36	3	12'-10"	4'-1"								COLUMN	TIE, TOP OF COLUMN
K630	E	4 series of 31	14'-7" to 21'-3"	3342	3	4'-1" to 7'-5" by 1⅜"	2'-11"								CAP	STIRRUPS
K631	E	14	20'-6"	431	1	20'-6"									CAP	BOTTOM @ ENDS
K632	E	2 series of 4	34'-10" to 14'-6"	297	1	34'-10" to 14'-6" by 6'-9¼"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
K633	E	2 series of 4	41'-9" to 40'-7"	494	1	41'-9" to 40'-7" by 4⅝"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
K534	E	10	8'-1"	84	17	2'-0"	4'-2½"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
K1135	E	8	44'-2"	1877	4	1'-11½"	40'-11½"								CAP	TOP
K1136	E	4	43'-0"	914	4	1'-11½"	39'-10"								CAP	TOP
K1137	E	8	42'-7"	1810	1	42'-7"									CAP	TOP
K438	E	20	5'-2"	69	4	8"	4'-1"								CAP	TIE
K439	E	4	17'-2"	46	1	17'-2"									CAP	HORIZ. GIRDER SEATS
K440	E	4	5'-11"	16	1	5'-11"									CAP	HORIZ. GIRDER SEATS
K441	E	15	7'-7"	76	4	2'-0"	3'-10"								CAP	VERTICAL GIRDER SEATS



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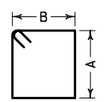

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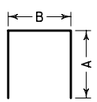

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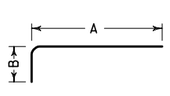
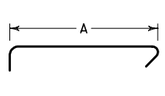
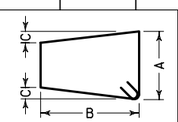


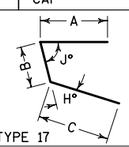
TYPE 8



TYPE 13



TYPE 14



TYPE 17

TOTAL NON-EPOXY REINFORCEMENT WT (LB)	3521
TOTAL EPOXY REINFORCEMENT WT (LB)	20517

STATE PROJECT NUMBER

1060-05-75

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P9-005
REINF. SCHEDULE

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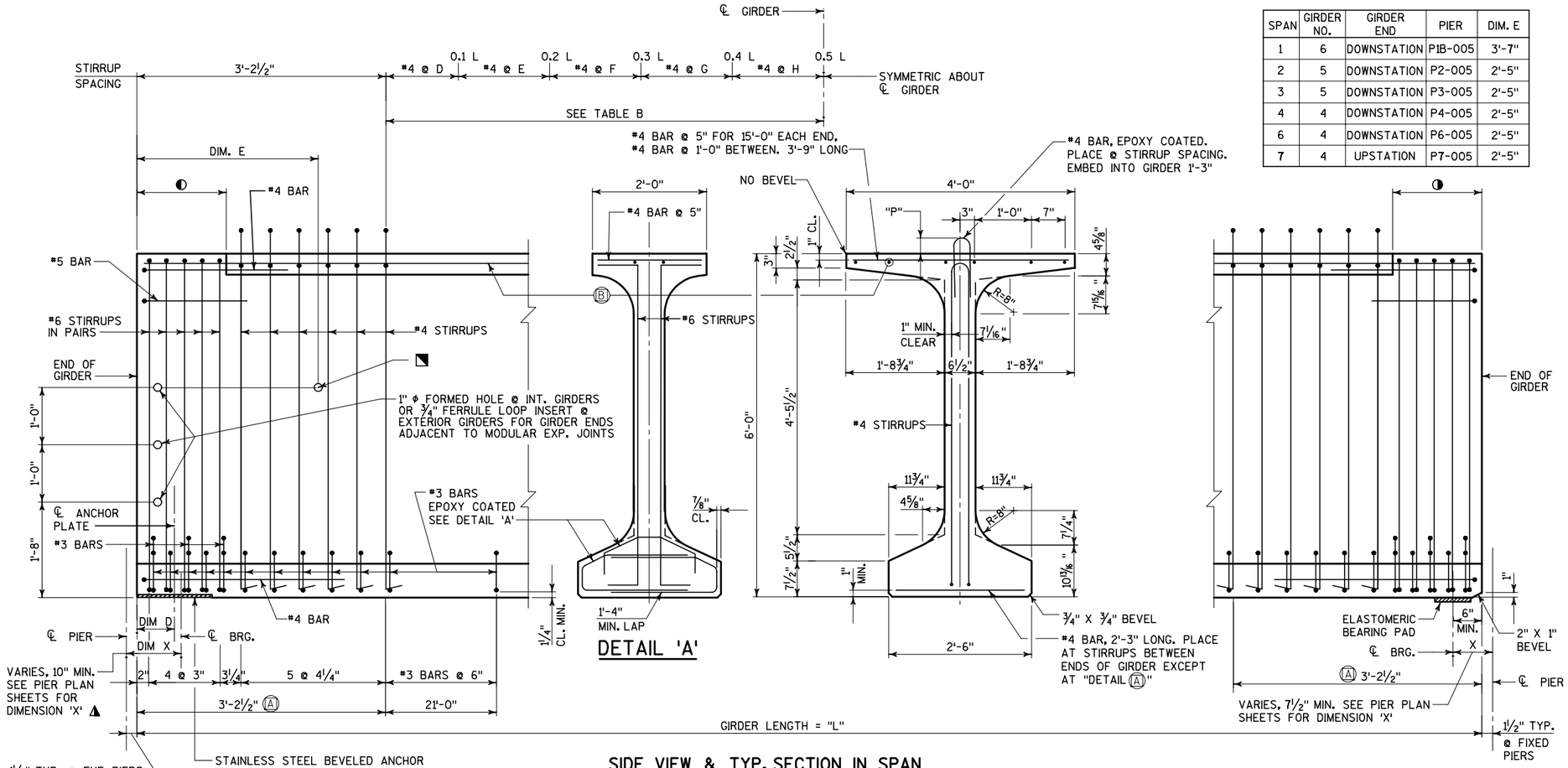


TABLE C - DRAIN INSERT LOCATIONS

SPAN	GIRDER NO.	GIRDER END	PIER	DIM. E
1	6	DOWNSTATION	P1B-005	3'-7"
2	5	DOWNSTATION	P2-005	2'-5"
3	5	DOWNSTATION	P3-005	2'-5"
4	4	DOWNSTATION	P4-005	2'-5"
6	4	DOWNSTATION	P6-005	2'-5"
7	4	UPSTATION	P7-005	2'-5"

NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY FOR BONDING TO THE SLAB, EXCEPT THE OUTSIDE 15" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH. AN APPROVED LIQUID BOND BREAKER SHALL BE APPLIED TO THE TOP SURFACE OF THE GIRDER EXCEPT FOR THE CENTER 18", APPLY NO MORE THAN 7 DAYS PRIOR TO POURING THE DECK.

NOX-CRETE:
SILCOSEAL 2000 F (2 COATS)
MASTER BUILDERS:
FIRST COAT - PRECO FORM-COTE
SECOND COAT - RHEOFINISH 220

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS.

PRESTRESSING STRANDS SHALL BE 0.6" ϕ - 7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 PSI AND SHALL BE FLUSH WITH THE ENDS OF THE GIRDER.

BEND EACH END OF #4 STIRRUPS 4½" AND #6 STIRRUPS 9".

FOR DIAPHRAGM INSERT & CONNECTION DETAILS, SEE "STEEL DIAPHRAGM" SHEET. FOR LOCATION OF INSERTS, SEE "GIRDER FRAMING PLAN" SHEETS.

FOR THREADED INSERT & FORMED HOLE LOCATIONS & DETAILS AT CONCRETE DIAPH'S, SEE "SUPERSTRUCTURE DETAILS" SHEETS.

ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT. IF THE FABRICATOR WANTS TO BUILD A BAR STEEL CAGE BY WELDING LONGITUDINAL REINFORCEMENT TO THE #4 STIRRUPS, 2 OPTIONS ARE AVAILABLE:

1. USE ASTM A706, GRADE 60 REINFORCEMENT AND THE STIRRUP SPACING AS SHOWN ON THE PLANS.
2. USE ASTM A615, GRADE 40 REINFORCEMENT AND A MODIFIED STIRRUP SPACING SUBMITTED TO AND APPROVED BY THE STRUCTURES DEVELOPMENT SECTION.

AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION.

WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ASTM A497.

ENDS OF STRANDS SHALL BE PAINTED WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER AT GIRDER ENDS THAT ARE EXPOSED.

ALL PRESTRESSED GIRDERS SHALL BE 60 DAYS OLD BEFORE THE DECK AND CONCRETE DIAPHRAGMS ARE POURED.

SIDE VIEW & TYP. SECTION IN SPAN

Ⓐ DETAIL TYP. AT EACH END

Ⓑ #6 BARS, FULL LENGTH, MIN. LAP = 3'-2"

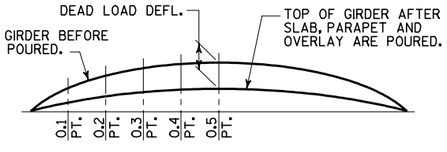
◐ TOP FLANGE BLOCK OUT, SEE DETAILS ON SHEET 294

◥ ¾" ϕ ELECTROPLATED FERRULE LOOP INSERT (MEDIUM HIGH CARBON WIRE) OR APPROVED EQUAL. SEE TABLE C, DECK PLAN SHEETS AND PIER DRAIN SHEETS FOR LOCATIONS AND DETAILS OF INSERT.

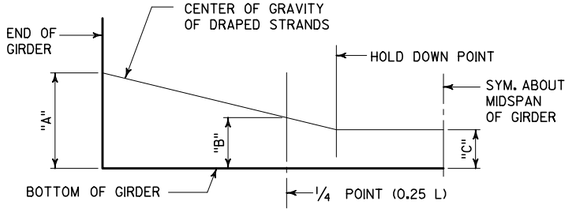
▲ FOR GIRDER LAYOUT ANGLES BETWEEN 85° & 95°, DIM. X IS EQUAL TO THE ℄ PIER TO THE ℄ BRG. DISTANCE GIVEN ON THE PIER PLAN SHEETS

TABLE A

PIER NO.	DIM. D	ANCHOR PLATE DIM'S
P1A-005, P1B-005, P9-005	9"	½" X 1'-6" X 2'-4½"
P2-005, P3-005, P7-005, P8-005	8½"	½" X 1'-5" X 2'-4½"



DEAD LOAD DEFLECTION DIAGRAM



DRAPED STRAND PROFILE

TABLE B - STIRRUP SPACING

SPAN	MAX. SPACING				
	D	E	F	G	H
1	7"	9"	13"	13"	14"
2 3	10"	16"	18"	18"	18"
4, 5, 6, 7	7"	8"	12"	12"	16"
8	6"	7"	13"	13"	18"

STATE PROJECT NUMBER

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	RWN	KES

72W" PRESTRESSED GIRDER DETAILS 1

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STATE PROJECT NUMBER

1060-05-75

GIRDER DATA

SPAN	GIRDER NO.	GIRDER LENGTH "L"	DEAD LOAD DEFL. (IN.) 0.1	0.2	0.3	0.4	0.5	CONC. STRGTH. f'c (p.s.i.)	"P" **	DIA. OF STRAND	DRAPED PATTERN TOTAL NO. OF STRANDS	f'ci (p.s.i.) *	(IN.) "A"	"B" MIN.	"B" MAX.	"C"	UNDRAPED PATTERN TOTAL NO. OF STRANDS	f'ci (p.s.i.) *	TOP FLANGE BLOCK OUT DIM'S Z (IN.)	Y°
1	1	110'-0 1/2"	1/2	7/8	1 1/4	1 1/4	1 3/8	8,000	VARIES	0.6"	30	6,000	54	16 1/2	19 1/2	4	——	——	▲ 12	⊛
1	2	109'-7 3/4"	1/2	7/8	1 1/4	1 1/4	1 3/8	8,000	VARIES	0.6"	30	6,000	54	16 1/2	19 1/2	4	——	——	▲ 12	⊛
1	3	109'-3"	1/2	7/8	1 1/4	1 1/4	1 3/8	8,000	VARIES	0.6"	30	6,000	54	16 1/2	19 1/2	4	——	——	▲ 12	⊛
1	4	108'-6 1/4"	1/2	7/8	1 1/4	1 1/4	1 3/8	8,000	VARIES	0.6"	30	6,000	54	16 1/2	19 1/2	4	——	——	▲ 12	⊛
1	5	107'-1 1/2"	1/2	7/8	1 1/4	1 1/4	1 3/8	8,000	VARIES	0.6"	30	6,000	54	16 1/2	19 1/2	4	——	——	▲ 12	⊛
1	6	105'-6 5/8"	1/2	7/8	1 1/4	1 1/4	1 3/8	8,000	VARIES	0.6"	30	6,000	54	16 1/2	19 1/2	4	——	——	▲ 12	⊛
2	1	120'-5 7/8"	5/8	1 1/8	1 1/2	1 3/4	1 3/4	8,000	VARIES	0.6"	32	6,000	57	18	21	5	——	——	12	⊛
2	2	118'-9 3/8"	5/8	1 1/8	1 1/2	1 3/4	1 3/4	8,000	VARIES	0.6"	32	6,000	57	18	21	5	——	——	12	⊛
2	3	117'-1 7/8"	5/8	1 1/8	1 1/2	1 3/4	1 3/4	8,000	VARIES	0.6"	32	6,000	57	18	21	5	——	——	12	⊛
2	4	115'-7 7/8"	5/8	1 1/8	1 1/2	1 3/4	1 3/4	8,000	VARIES	0.6"	32	6,000	57	18	21	5	——	——	12	⊛
2	5	113'-11 1/2"	5/8	1 1/8	1 1/2	1 3/4	1 3/4	8,000	VARIES	0.6"	32	6,000	57	18	21	5	——	——	12	⊛
3	1	119'-4"	1/2	7/8	1 1/8	1 3/8	1 3/8	8,000	VARIES	0.6"	26	6,000	58	17 1/2	20 1/2	4	——	——	12	⊛
3	2	117'-7 5/8"	1/2	7/8	1 1/8	1 3/8	1 3/8	8,000	VARIES	0.6"	26	6,000	58	17 1/2	20 1/2	4	——	——	12	⊛
3	3	116'-7 3/8"	1/2	7/8	1 1/8	1 3/8	1 3/8	8,000	VARIES	0.6"	26	6,000	58	17 1/2	20 1/2	4	——	——	12	⊛
3	4	115'-7 5/8"	1/2	7/8	1 1/8	1 3/8	1 3/8	8,000	VARIES	0.6"	26	6,000	58	17 1/2	20 1/2	4	——	——	12	⊛
3	5	113'-11 1/4"	1/2	7/8	1 1/8	1 3/8	1 3/8	8,000	VARIES	0.6"	26	6,000	58	17 1/2	20 1/2	4	——	——	12	⊛
4	1	117'-11"	5/8	1 1/8	1 1/2	1 3/4	1 3/4	8,000	VARIES	0.6"	32	6,000	57	18	21	5	——	——	12	⊛
4	2	116'-7"	5/8	1 1/8	1 1/2	1 3/4	1 3/4	8,000	VARIES	0.6"	32	6,000	57	18	21	5	——	——	12	⊛
4	3	115'-3 7/8"	5/8	1 1/8	1 1/2	1 3/4	1 3/4	8,000	VARIES	0.6"	32	6,000	57	18	21	5	——	——	12	⊛
4	4	113'-11 7/8"	5/8	1 1/8	1 1/2	1 3/4	1 3/4	8,000	VARIES	0.6"	32	6,000	57	18	21	5	——	——	12	⊛
5	ALL	114'-9"	5/8	1	1 3/8	1 1/2	1 5/8	8,000	VARIES	0.6"	30	6,000	58	17 1/2	20 1/2	4	——	——	12	90
6	ALL	109'-0"	1/2	7/8	1 1/8	1 1/4	1 1/4	8,000	7"	0.6"	26	6,000	56	17	20	4	——	——	12	90
7	1	110'-0 1/2"	1/2	7/8	1 1/8	1 1/4	1 3/8	8,000	7"	0.6"	28	6,000	56	17	20	4	——	——	12	⊛
7	2	109'-7"	1/2	7/8	1 1/8	1 1/4	1 3/8	8,000	7"	0.6"	28	6,000	56	17	20	4	——	——	12	⊛
7	3	109'-1 3/4"	1/2	7/8	1 1/8	1 1/4	1 3/8	8,000	7"	0.6"	28	6,000	56	17	20	4	——	——	12	⊛
7	4	108'-8 1/4"	1/2	7/8	1 1/8	1 1/4	1 3/8	8,000	7"	0.6"	28	6,000	56	17	20	4	——	——	12	⊛
8	1 & 2	109'-7 5/8"	1/2	7/8	1 1/8	1 1/4	1 3/8	8,000	7"	0.6"	30	6,000	56	17	20	4	——	——	▲ 12	⊛
8	3 & 4	109'-6 5/8"	1/2	7/8	1 1/8	1 1/4	1 3/8	8,000	7"	0.6"	30	6,000	56	17	20	4	——	——	▲ 12	⊛

⊛ SEE PIER PLAN LAYOUT FOR GIRDER CUTOFF ANGLE.

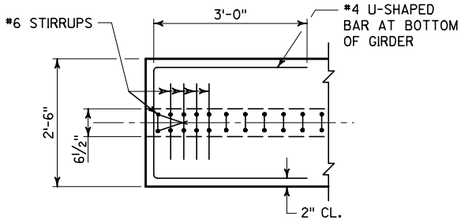
▲ BLOCK OUT DIM. Z ADJACENT TO MODULAR JOINT SHALL BE 1'-11"

* MINIMUM CYLINDER STRENGTH OF CONCRETE AT TIME OF TRANSFER OF PRESTRESS FORCE.

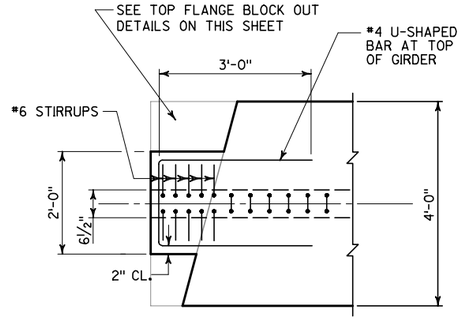
** 72W" PRESTRESSED GIRDER DETAILS 3.
72W" PRESTRESSED GIRDER DETAILS 3.

BLOCK OUT DATA ⊛

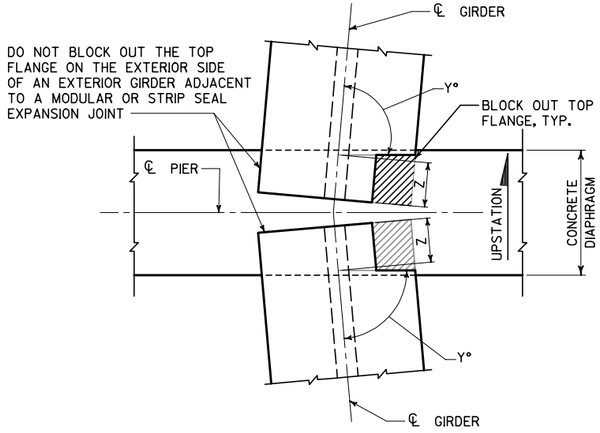
SPAN	GIRDER NO.	TOP FLANGE BLOCK OUT DIM'S GIRDER END	X (IN.)	Y
1	1, 2	DOWNSTATION	23	86°39'45"
		UPSTATION	12	91°24'24"
1	3	DOWNSTATION	23	88°26'29"
		UPSTATION	12	89°37'41"
1	4	DOWNSTATION	23	84°02'09"
		UPSTATION	12	87°49'06"
1	5, 6	DOWNSTATION	23	85°52'26"
		UPSTATION	12	85°58'49"
2	1, 2	DOWNSTATION	12	81°49'08"
		UPSTATION	12	89°33'22"
2	3	DOWNSTATION	12	83°43'39"
		UPSTATION	12	87°35'51"
2	4, 5	DOWNSTATION	12	83°41'16"
		UPSTATION	12	85°41'14"
3	1, 2	DOWNSTATION	12	83°23'38"
		UPSTATION	12	87°58'52"
3	3	DOWNSTATION	12	84°27'24"
		UPSTATION	12	86°55'7"
3	4, 5	DOWNSTATION	12	85°32'16"
		UPSTATION	12	85°50'14"
4	1, 2	DOWNSTATION	12	84°47'29"
		UPSTATION	12	88°24'37"
4	3, 4	DOWNSTATION	12	84°20'59"
		UPSTATION	12	88°51'7"
7	1 - 4	DOWNSTATION	12	90°0'0"
		UPSTATION	12	87°42'34"
8	1 - 4	DOWNSTATION	12	92°17'26"
		UPSTATION	23	87°42'34"



BOTTOM FLANGE AT GIRDER ENDS

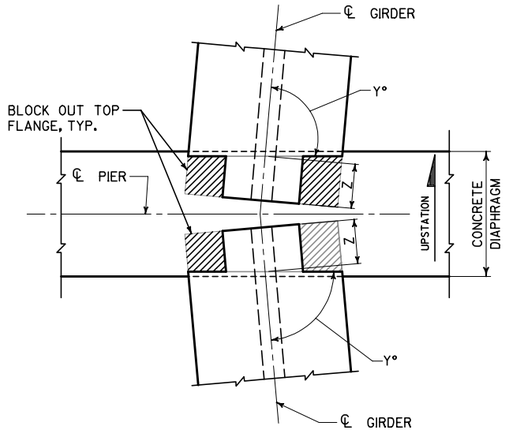


TOP FLANGE AT GIRDER ENDS



TOP FLANGE BLOCKOUT DETAIL
@ EXTERIOR GIRDERS

(SEE BLOCK OUT DATA TABLE ON THIS SHEET)



TOP FLANGE BLOCKOUT DETAIL
@ INTERIOR GIRDERS

(SEE BLOCK OUT DATA TABLE ON THIS SHEET)

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

72"W PRESTRESSED GIRDER DETAILS 2

SHEET 293 OF 396

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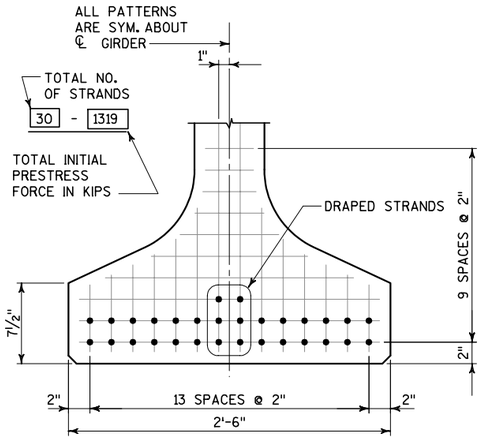
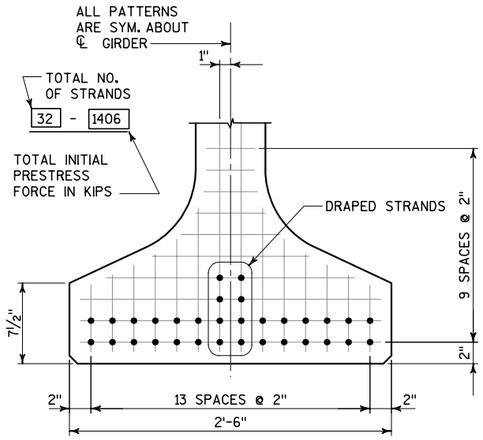
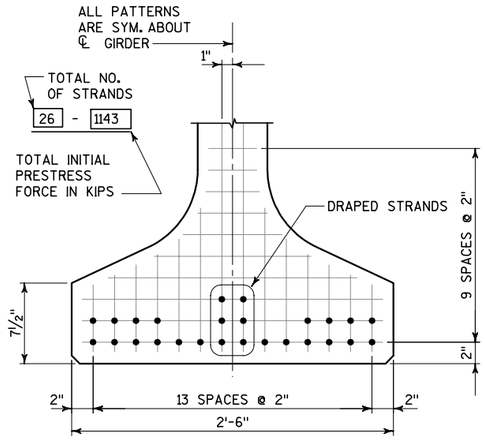


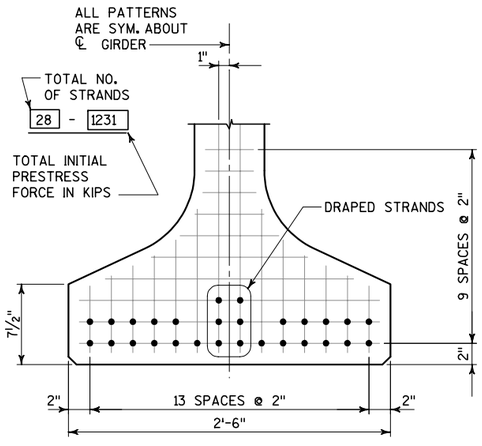
TYP. STRAND PATTERN
SPAN 1, 5 & 8



TYP. STRAND PATTERN
SPAN 2 & 4

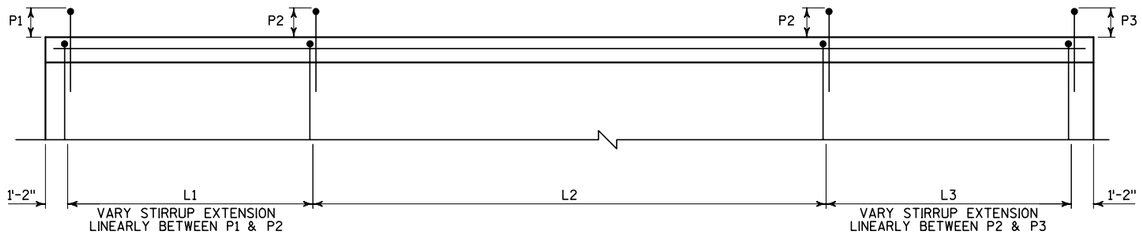


TYP. STRAND PATTERN
SPAN 3 & 6

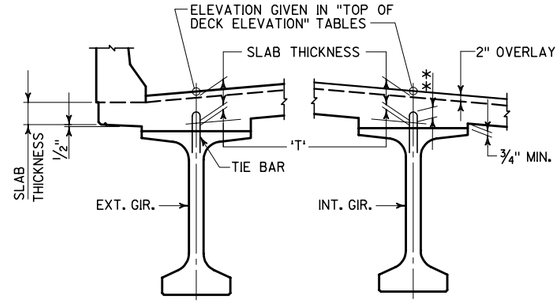


TYP. STRAND PATTERN
SPAN 7

SPAN	GIRDERS	GIRDER LENGTH	L1	L2	L3	P1	P2	P3
1	1	110'-0½"	31'-0"	58'-0½"	21'-0"	8"	7"	8"
1	2&3	VARIES	21'-0"	VARIES	21'-0"	8"	7"	8"
1	4,5&6	VARIES	11'-0"	VARIES	21'-0"	8"	7"	8"
2	1&2	VARIES	12'-0"	VARIES	0'-0"	8"	7"	-
2	3,4&5	VARIES	23'-0"	VARIES	0'-0"	8"	7"	-
3	ALL	VARIES	0'-0"	VARIES	11'-6"	-	7"	8"
4	1	117'-11"	44'-0"	73'-11"	0'-0"	8"	7"	-
4	2	116'-7"	33'-0"	83'-7"	0'-0"	8"	7"	-
4	3&4	VARIES	11'-0"	VARIES	0'-0"	8"	7"	-
5	4	114'-9"	11'-0"	58'-9"	45'-0"	7"	8"	7"



STIRRUP EXTENSION DETAIL



SLAB HAUNCH DETAIL

IF ¾" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR. THE PLAN SLAB THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN ½" OR,

** IF 3" MINIMUM DECK EMBEDMENT OF THE TIE BAR CANNOT BE OBTAINED.

TO DETERMINE 'T', ELEV. OF TOP OF GIRDERS AT ℄ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF GIRDER ELEVATION
+ DEAD LOAD DEFLECTION
- SLAB THICKNESS

= HAUNCH HEIGHT 'T'

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

72W" PRESTRESSED GIRDER DETAILS 3

SHEET 294 OF 396

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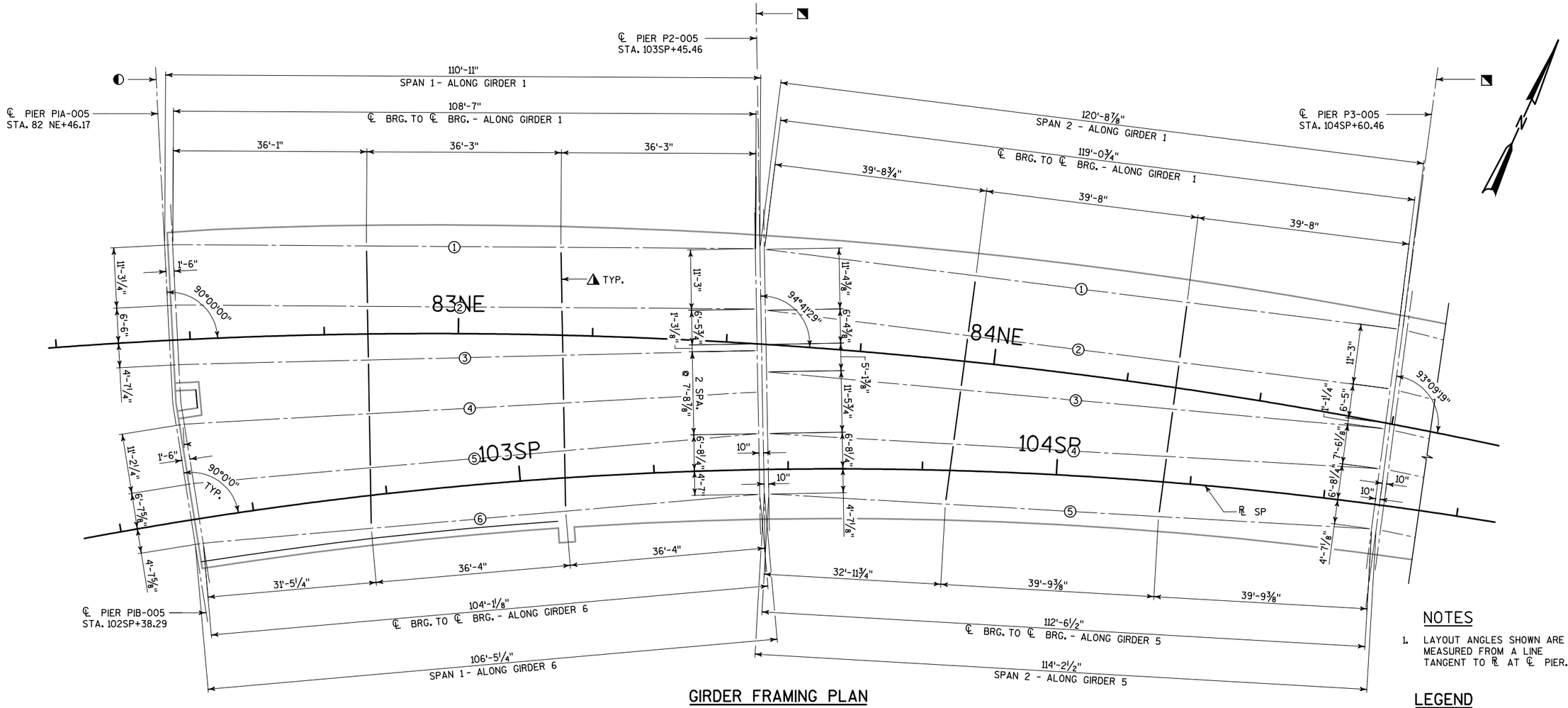
STATE PROJECT NUMBER

1060-05-75



GIRDER FRAMING PLAN

DECK EDGE DIMENSIONS FROM ℄ SP		
STATION	LEFT EDGE	RIGHT EDGE
102SP+38.29	53'-10⅝"	9'-3"
102SP+50.00	52'-10⅝"	9'-3"
102SP+75.00	50'-3¼"	9'-3"
103SP+00.00	47'-9½"	9'-3"
103SP+25.00	45'-5½"	9'-3"
103SP+45.46	43'-8¼"	9'-3"
103SP+50.00	43'-3½"	9'-3"
103SP+75.00	41'-3⅜"	9'-3"
104SP+00.00	39'-4⅞"	9'-3"
104SP+25.00	37'-8⅜"	9'-3"
104SP+50.00	36'-1⅝"	9'-3"
104SP+60.46	35'-6⅝"	9'-3"

DECK EDGE DIMENSIONS FROM ℄ NE	
STATION	LEFT EDGE
82NE+00	20'-3"
85NE+00	20'-3"

NOTES

1. LAYOUT ANGLES SHOWN ARE MEASURED FROM A LINE TANGENT TO ℄ AT ℄ PIER.

LEGEND

- ◭ INTERMEDIATE STEEL DIAPHRAGM, TYP. SEE SHEET 354 FOR DETAILS. ALIGNED PARALLEL TO PIER P2-005 IN SPAN 1 AND TO PIER P3-005 IN SPAN 2
- ◥ ℄ EXPANSION PIER DIAPHRAGM, SEE SHEETS 307 THRU 308 FOR DETAILS
- ◐ ℄ MODULAR JT. EXPANSION PIER DIAPHRAGM, SEE SHEETS 309 THRU 310 FOR DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	2004	DRAWN BY	DJS	PLANS CK'D.	KES

GIRDER FRAMING PLAN 1

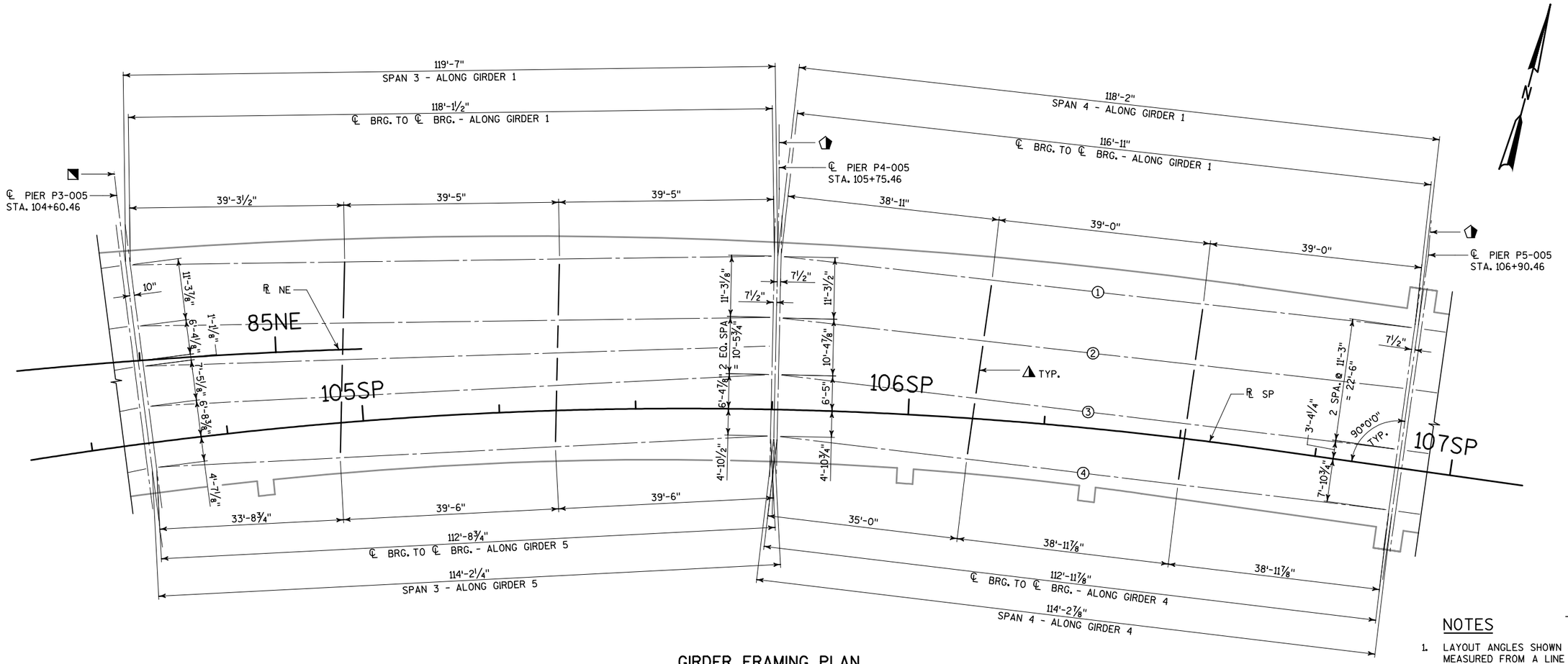
SHEET 295 OF 396

3163

8

FILE NAME: R:\C\bridges\1312\cds\1312-05C050D.dgn PEN TABLE: \\mtp\FinalDgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:42 Plotted by: emccrigh

STATE PROJECT NUMBER
1060-05-75



GIRDER FRAMING PLAN

DECK EDGE DIMENSIONS FROM ℄ SP		
STATION	LEFT EDGE	RIGHT EDGE
104SP+60.46	35'-6⅝"	9'-3"
104SP+75.00	34'-8⅞"	9'-3"
105SP+00.00	33'-6"	9'-3"
105SP+25.00	32'-4⅞"	9'-3"
105SP+50.00	31'-5¾"	9'-3⅞"
105SP+75.00	30'-8½"	9'-6⅝"
105SP+75.46	30'-8⅜"	9'-6⅝"
106SP+00.00	30'-1¼"	9'-11"
106SP+25.00	29'-7¾"	10'-5¼"
106SP+50.00	29'-4¼"	11'-1"
106SP+75.00	29'-3"	11'-3"
106SP+90.46	29'-3"	11'-3"

NOTES

1. LAYOUT ANGLES SHOWN ARE MEASURED FROM A LINE TANGENT TO ℜ AT ℄ PIER.

LEGEND

- ◭ INTERMEDIATE STEEL DIAPHRAGM, TYP. SEE SHEET 354 FOR DETAILS. ALIGNED PARALLEL TO PIER P4-005 IN SPAN 3 AND TO PIER P5-005 IN SPAN 4
- ◗ ℄ FIXED PIER DIAPHRAGM, SEE SHEETS 307 THRU 308 FOR DETAILS
- ◥ ℄ EXPANSION PIER DIAPHRAGM, SEE SHEETS 307 THRU 308 FOR DETAILS

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	2004	DRAWN BY	DJS	PLANS CK'D.	KES

GIRDER FRAMING PLAN 2

SHEET 296 OF 396

3164

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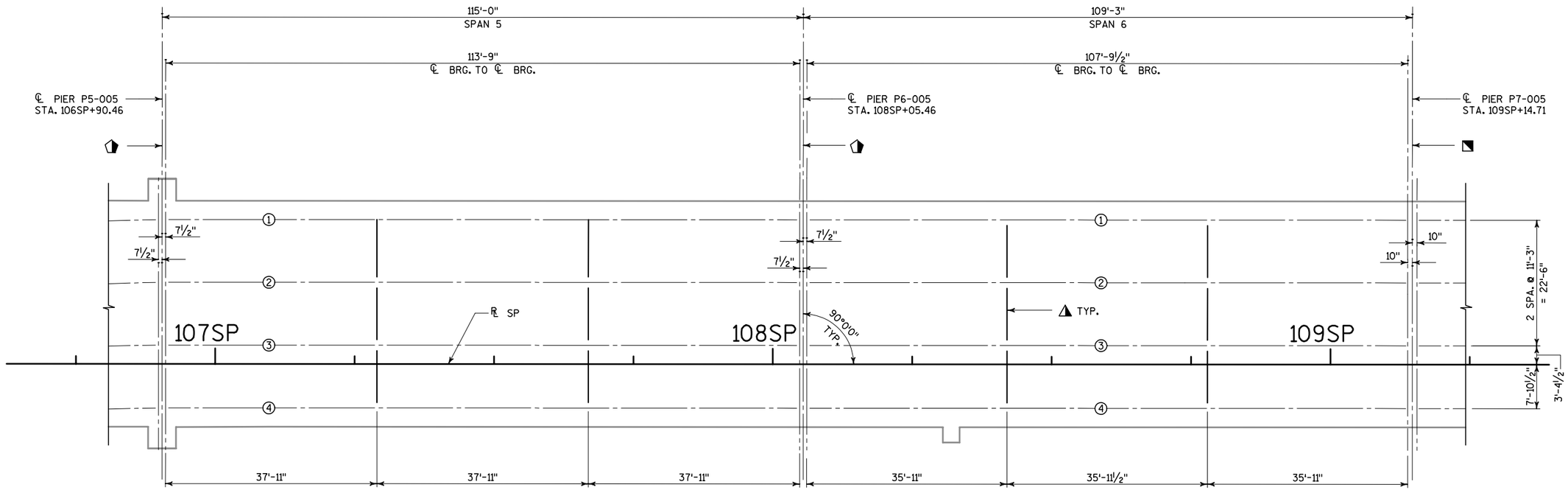
STATE PROJECT NUMBER
1060-05-75



GIRDER FRAMING PLAN

DECK EDGE DIMENSIONS FROM ℄ SP		
STATION	LEFT EDGE	RIGHT EDGE
106SP+90.46	29'-3"	11'-3"
107SP+00.00	29'-3"	11'-3"
107SP+25.00	29'-3"	11'-3"
107SP+50.00	29'-3"	11'-3"
107SP+75.00	29'-3"	11'-3"
108SP+00.00	29'-3"	11'-3"
108SP+05.46	29'-3"	11'-3"
108SP+25.00	29'-3"	11'-3"
108SP+50.00	29'-3"	11'-3"
108SP+75.00	29'-3"	11'-3"
109SP+00.00	29'-3"	11'-3"
109SP+14.71	29'-3"	11'-3"

NOTES

1. LAYOUT ANGLES SHOWN ARE MEASURED FROM A LINE TANGENT TO ℄ AT ℄ PIER.

LEGEND

- INTERMEDIATE STEEL DIAPHRAGM, TYP. SEE SHEET 354 FOR DETAILS
- ℄ FIXED PIER DIAPHRAGM, SEE SHEETS 307 THRU 308 FOR DETAILS
- ℄ EXPANSION PIER DIAPHRAGM, SEE SHEETS 307 THRU 308 FOR DETAILS

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	DJS	KES

GIRDER FRAMING PLAN 3

SHEET 297 OF 396

3165

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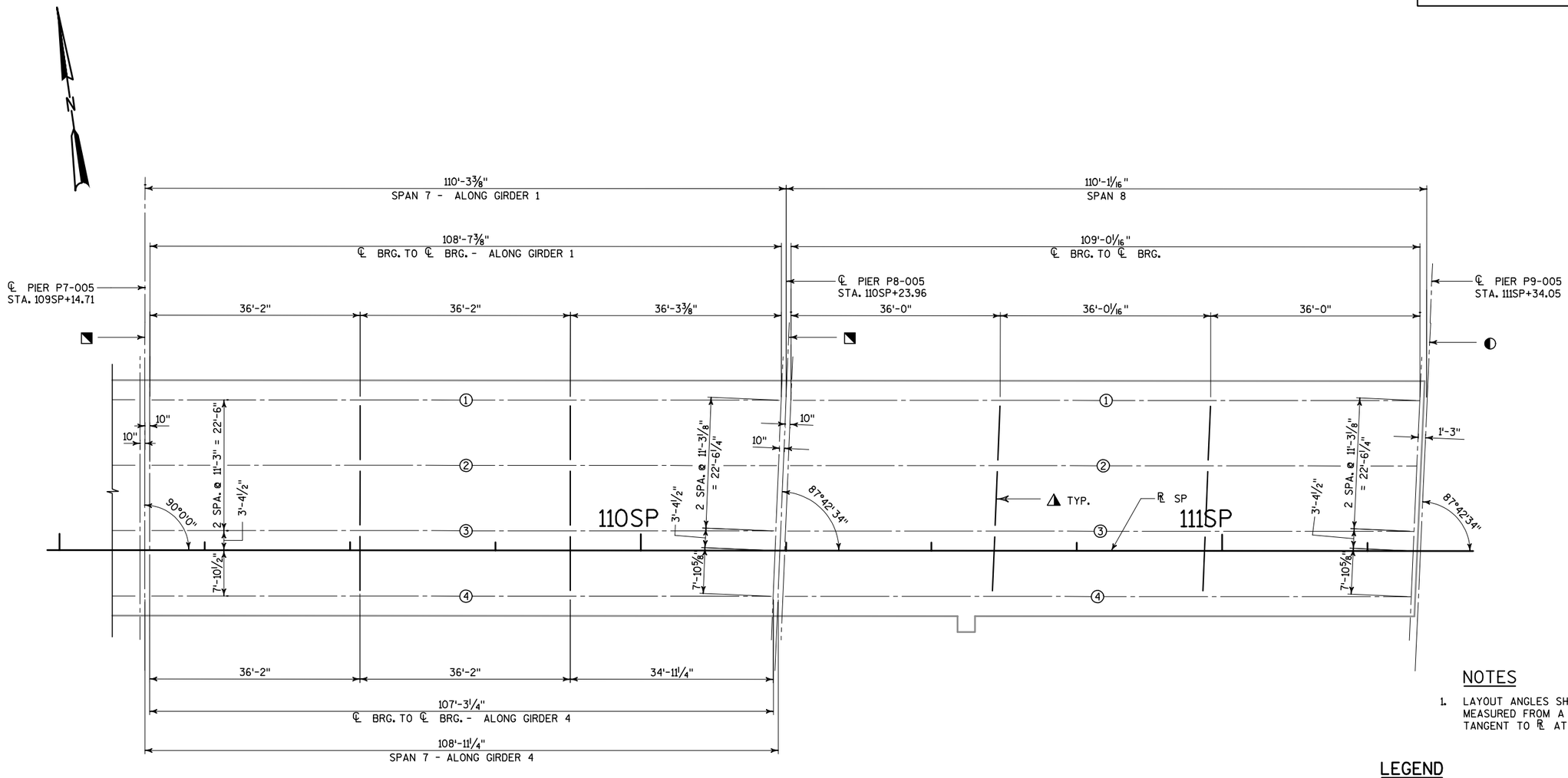
STATE PROJECT NUMBER
1060-05-75



GIRDER FRAMING PLAN

DECK EDGE DIMENSIONS FROM ℞ SP		
STATION	LEFT EDGE	RIGHT EDGE
109SP+25.00	29'-3"	11'-3"
109SP+50.00	29'-3"	11'-3"
109SP+75.00	29'-3"	11'-3"
110SP+00.00	29'-3"	11'-3"
110SP+23.96	29'-3"	11'-3"
110SP+50.00	29'-3"	11'-3"
110SP+75.00	29'-3"	11'-3"
111SP+00.00	29'-3"	11'-3"
111SP+25.00	29'-3"	11'-3"
111SP+34.05	29'-3"	11'-3"

NOTES

1. LAYOUT ANGLES SHOWN ARE MEASURED FROM A LINE TANGENT TO ℞ AT ℄ PIER.

LEGEND

▲ INTERMEDIATE STEEL DIAPHRAGM, TYP. SPAN 7 DIAPHRAGMS ARE PARALLEL TO ℄ PIER P7-005 AND SPAN 8 DIAPHRAGMS ARE PARALLEL TO ℄ PIER P8-005. SEE SHEET 354 FOR DETAILS

◥ ℄ EXPANSION PIER DIAPHRAGM, SEE SHEETS 307 THRU 308 FOR DETAILS

◐ ℄ MODULAR JT. EXPANSION PIER DIAPHRAGM, SEE SHEETS 309 THRU 310 FOR DETAILS

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	DJS	KES

GIRDER FRAMING PLAN 4

SHEET 298 OF 396

3166

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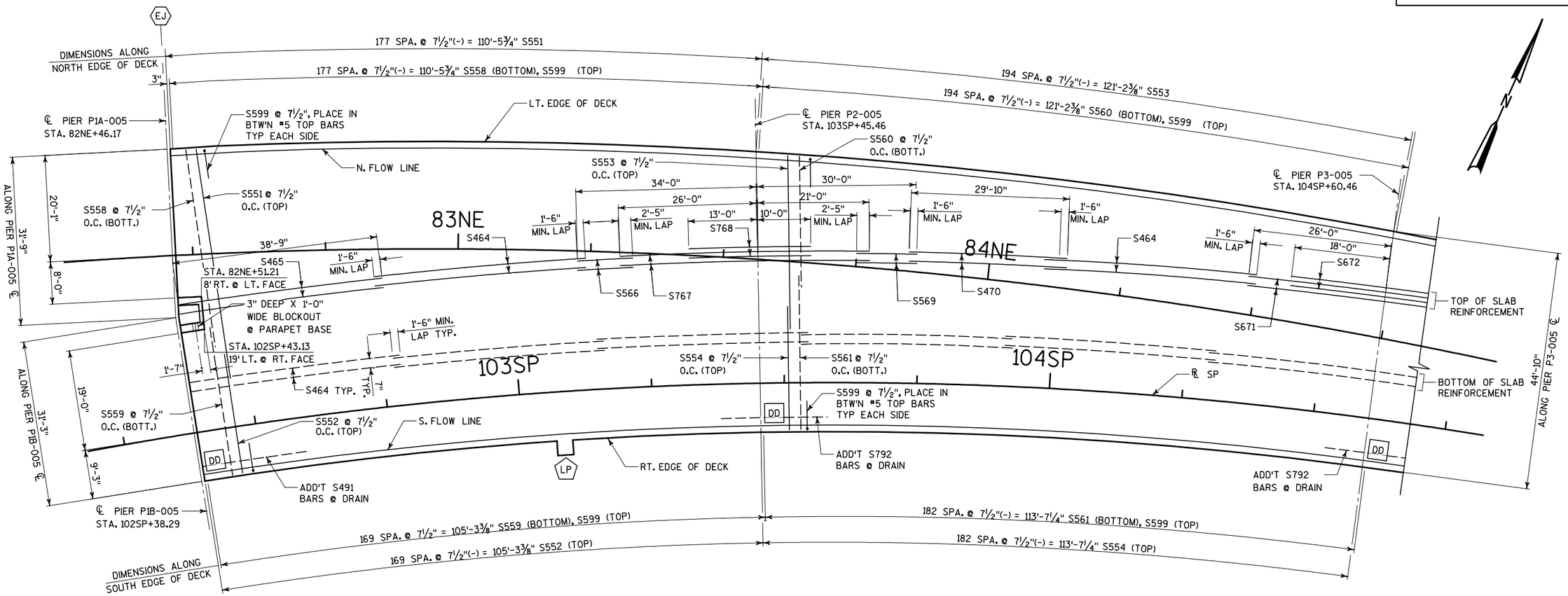
STATE PROJECT NUMBER
1060-05-75



DECK PLAN
(SPAN 1 & SPAN 2)

DECK FEATURE SUMMARY			
STATION	FEATURE	SIDE	DETAIL SHEETS
102SP+38.30	EXPANSION JOINT		365-368
103SP+08.00	DECK DRAIN - TYPE B	RIGHT	371-372
103SP+08.00	LIGHT POLE	RIGHT	371-372
103SP+48.00	DECK DRAIN - TYPE B	RIGHT	373-376
104SP+63.00	DECK DRAIN - TYPE B	RIGHT	371-372

TOP OF DECK ELEVATIONS (GIVEN @ TOP OF OVERLAY)

	℄ PIER P1B-005	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P2-005	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P3-005
N. FLOW LINE	638.59	638.84	639.07	639.26	639.44	639.61	639.79	639.97	640.13	640.30	640.46	640.63	640.80	640.96	641.11	641.26	641.40	641.54	641.67	641.79	641.91
GIRDER 1	638.56	638.75	638.95	639.12	639.27	639.44	639.62	639.80	639.99	640.17	640.40	640.52	640.65	640.79	640.93	641.07	641.21	641.36	641.51	641.66	641.84
GIRDER 2	637.89	638.07	638.26	638.43	638.59	638.76	638.94	639.13	639.32	639.51	639.73	639.85	639.99	640.12	640.26	640.40	640.55	640.69	640.84	641.00	641.17
GIRDER 3	637.24	637.43	637.63	637.82	638.00	638.20	638.40	638.61	638.81	639.03	639.05	639.20	639.36	639.52	639.68	639.84	640.01	640.18	640.36	640.53	640.74
GIRDER 4	636.61	636.80	637.01	637.21	637.42	637.63	637.86	638.09	638.32	638.55	638.37	638.55	638.73	638.91	639.10	639.29	639.48	639.67	639.87	640.07	640.30
GIRDER 5	635.99	636.19	636.40	636.62	636.85	637.08	637.33	637.57	637.82	638.07	637.71	637.89	638.07	638.25	638.44	638.62	638.82	639.01	639.20	639.40	639.63
GIRDER 6	635.36	635.54	635.74	635.96	636.19	636.42	636.66	636.91	637.16	637.41	637.67										
S. FLOW LINE	635.14	635.36	635.60	635.84	636.08	636.32	636.57	636.81	637.04	637.27	637.48	637.71	637.93	638.14	638.35	638.55	638.74	638.92	639.09	639.26	639.42

LEGEND

EJ — EXPANSION JOINT LOCATION.

DD — DECK DRAIN LOCATION. ✳

LP — LIGHT POLE MOUNTING LOCATION. ✳

✳ SEE DETAIL SHEETS FOR ADDITIONAL DECK REINFORCEMENT REQUIRED IN THIS AREA.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

DECK PLAN / REINFORCEMENT 1

SHEET 299 OF 396

3167

8

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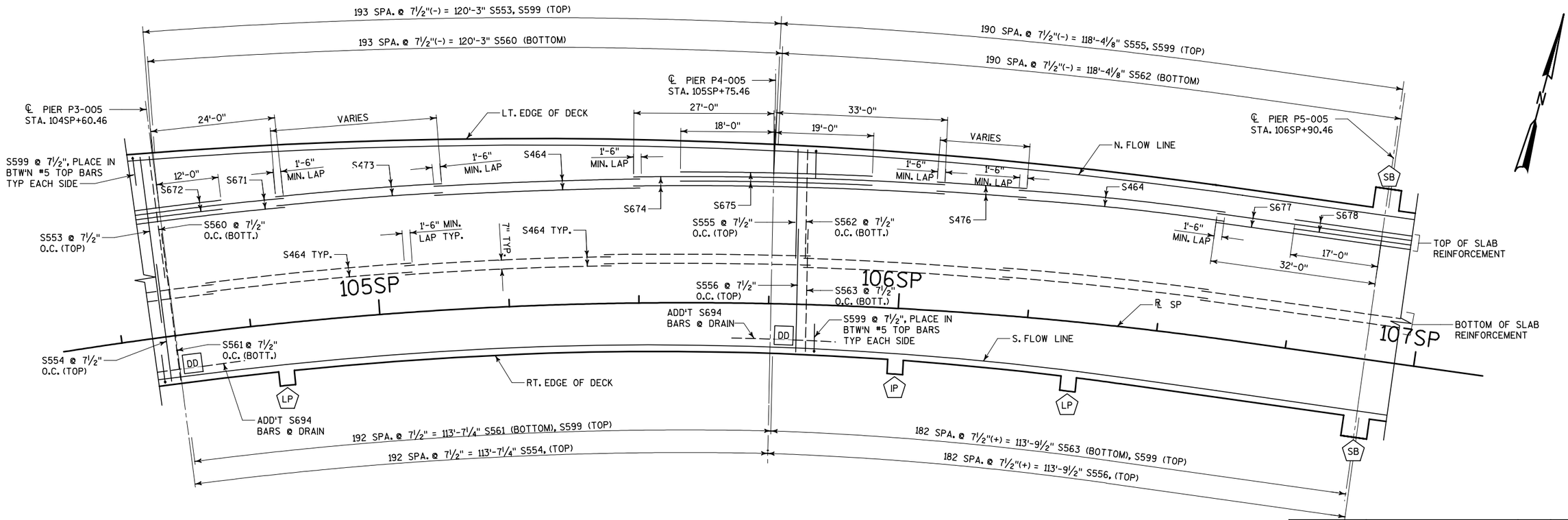
STATE PROJECT NUMBER
1060-05-75



DECK PLAN
(SPAN 3 & SPAN 4)

DECK FEATURE SUMMARY			
STATION	FEATURE	SIDE	DETAIL SHEETS
104SP+64.00	DECK DRAIN - TYPE B	RIGHT	371-372
104SP+85.00	LIGHT POLE	RIGHT	373-376
105SP+78.00	DECK DRAIN - TYPE B	RIGHT	371-372
106SP+00.00	ITS POLE	RIGHT	373-376
106SP+34.00	LIGHT POLE	RIGHT	373-376
106SP+90.46	SIGN BRIDGE	LEFT	377-380
106SP+90.46	SIGN BRIDGE	RIGHT	377-380

TOP OF DECK ELEVATIONS (GIVEN @ TOP OF OVERLAY)

	℄ PIER P3-005	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P4-005	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P5-005
N. FLOW LINE	641.91	642.03	642.13	642.24	642.33	642.42	642.51	642.59	642.66	642.73	642.79	642.85	642.90	642.85	642.79	642.72	642.65	642.57	642.49	642.40	642.31
GIRDER 1	641.84	641.91	641.99	642.07	642.15	642.24	642.32	642.41	642.51	642.60	642.72	642.73	642.75	642.69	642.62	642.57	642.51	642.45	642.39	642.33	642.23
GIRDER 2	641.17	641.25	641.32	641.40	641.49	641.57	641.66	641.75	641.84	641.94	642.05	642.06	642.08	642.06	642.03	642.02	642.00	641.98	641.96	641.94	641.89
GIRDER 3	640.74	640.82	640.91	641.01	641.10	641.20	641.30	641.40	641.51	641.62	641.43	641.45	641.46	641.46	641.47	641.49	641.50	641.52	641.54	641.55	641.55
GIRDER 4	640.30	640.40	640.50	640.61	640.72	640.83	640.94	641.06	641.18	641.30	640.77	640.78	640.80	640.84	640.89	640.94	641.00	641.05	641.11	641.16	641.21
GIRDER 5	639.63	639.73	639.84	639.94	640.05	640.16	640.28	640.39	640.51	640.63	640.77										
GIRDER 6																					
S. FLOW LINE	639.42	639.57	639.71	639.85	639.97	640.09	640.21	640.31	640.40	640.49	640.56	640.63	640.68	640.75	640.82	640.89	640.94	641.00	641.05	641.10	641.14

LEGEND

- DD — DECK DRAIN LOCATION.*
- LP — LIGHT POLE MOUNTING LOCATION.*
- SB — SIGN BRIDGE MOUNTING LOCATION.*
- IP — ITS POLE MOUNTING LOCATION.*

* SEE DETAIL SHEETS FOR ADDITIONAL DECK REINFORCEMENT REQUIRED IN THIS AREA.

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

DECK PLAN / REINFORCEMENT 2

SHEET 300 OF 396

3168

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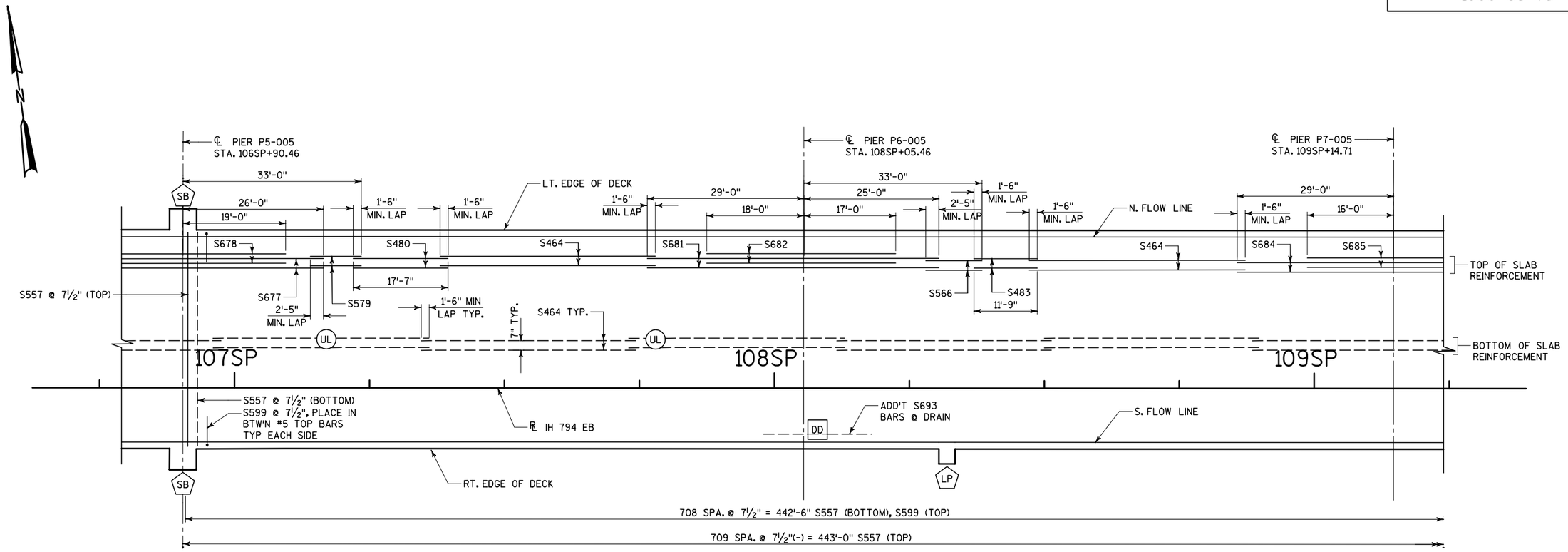
STATE PROJECT NUMBER
1060-05-75



DECK PLAN
(SPAN 5 & SPAN 6)

DECK FEATURE SUMMARY			
STATION	FEATURE	SIDE	DETAIL SHEETS
106SP+90.00	SIGN BRIDGE	LEFT	377-380
106SP+90.00	SIGN BRIDGE	RIGHT	377-380
107SP+17.00	UNDERDECK LIGHT ANCHORAGE	9'-0" LT	396
107SP+78.00	UNDERDECK LIGHT ANCHORAGE	9'-0" LT	396
108SP+08.00	DECK DRAIN - TYPE B	RIGHT	371-372
108SP+32.00	LIGHT POLE	RIGHT	373-376

TOP OF DECK ELEVATIONS (GIVEN @ TOP OF OVERLAY)

	℄ PIER P5-005	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P6-005	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P7-005
N. FLOW LINE	642.31	642.20	642.09	641.97	641.95	641.92	641.87	641.82	641.77	641.70	641.63	641.56	641.47	641.38	641.29	641.18	641.07	640.96	640.83	640.70	640.56
GIRDER 1	642.23	642.14	642.04	641.93	641.91	641.87	641.83	641.78	641.73	641.67	641.58	641.51	641.43	641.34	641.24	641.14	641.03	640.92	640.80	640.67	640.51
GIRDER 2	641.89	641.84	641.77	641.71	641.68	641.65	641.61	641.56	641.50	641.44	641.36	641.28	641.20	641.11	641.02	640.92	640.81	640.70	640.57	640.45	640.28
GIRDER 3	641.55	641.53	641.51	641.48	641.46	641.42	641.38	641.33	641.28	641.22	641.13	641.06	640.98	640.89	640.79	640.69	640.58	640.47	640.35	640.22	640.06
GIRDER 4	641.21	641.23	641.25	641.26	641.23	641.20	641.16	641.11	641.05	640.99	640.91	640.83	640.75	640.66	640.57	640.47	640.36	640.24	640.12	640.00	639.83
GIRDER 5																					
GIRDER 6																					
S. FLOW LINE	641.14	641.17	641.20	641.21	641.19	641.16	641.11	641.06	641.01	640.94	640.87	640.80	640.71	640.62	640.53	640.42	640.31	640.20	640.07	639.94	639.80

LEGEND

- DD — DECK DRAIN LOCATION. *
- LP — LIGHT POLE MOUNTING LOCATION. *
- UL — UNDERDECK LIGHTING ANCHORAGE.
- SB — SIGN BRIDGE MOUNTING LOCATION. *

* SEE DETAIL SHEETS FOR ADDITIONAL DECK REINFORCEMENT REQUIRED IN THIS AREA.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

DECK PLAN / REINFORCEMENT 3

SHEET 301 OF 396

3169

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STATE PROJECT NUMBER
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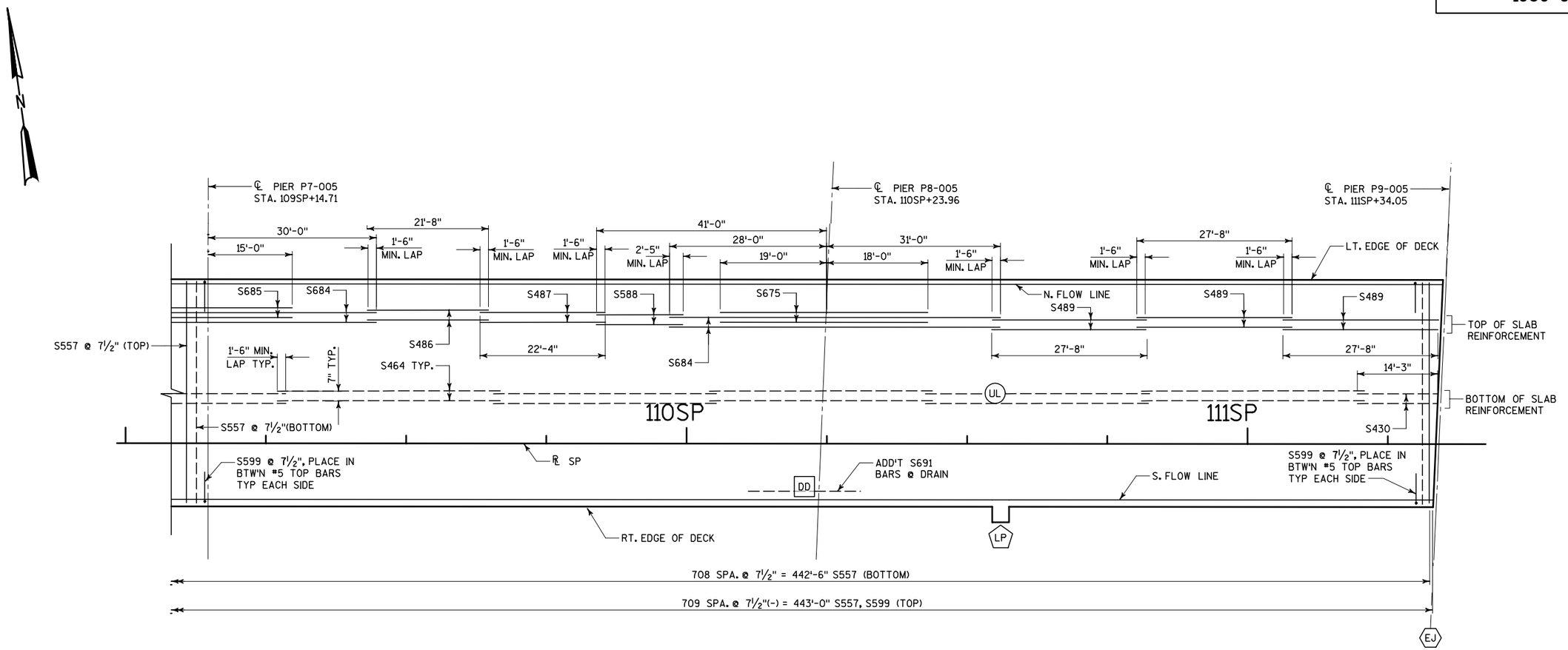


DECK PLAN

(SPAN 7 & SPAN 8)

DECK FEATURE SUMMARY			
STATION	FEATURE	SIDE	DETAIL SHEETS
110SP+20.98	DECK DRAIN - TYPE B	RIGHT	371-372
110SP+55.00	UNDERDECK LIGHT ANCHORAGE	9'-0" LT	396
110SP+56.00	LIGHT POLE	RIGHT	373-376
111SP+34.05	EXPANSION JOINT		365-368

TOP OF DECK ELEVATIONS (GIVEN @ TOP OF OVERLAY)

	℄ PIER P7-005	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P8-005	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P9-005
N. FLOW LINE	640.56	640.42	640.26	640.10	639.94	639.76	639.58	639.39	639.19	638.99	638.78	638.56	638.34	638.11	637.87	637.62	637.37	637.11	636.85	636.59	636.33
GIRDER 1	640.51	640.36	640.21	640.05	639.89	639.72	639.54	639.36	639.16	638.97	638.72	638.50	638.28	638.06	637.83	637.59	637.34	637.09	636.83	636.58	636.32
GIRDER 2	640.28	640.14	639.99	639.83	639.67	639.50	639.32	639.14	638.95	638.75	638.50	638.29	638.07	637.84	637.61	637.37	637.13	636.87	636.62	636.36	636.11
GIRDER 3	640.06	639.91	639.76	639.61	639.45	639.28	639.10	638.92	638.73	638.53	638.29	638.07	637.85	637.63	637.40	637.16	636.91	636.66	636.40	636.15	635.89
GIRDER 4	639.83	639.69	639.54	639.39	639.22	639.06	638.88	638.70	638.51	638.32	638.07	637.86	637.64	637.41	637.18	636.94	636.70	636.45	636.19	635.94	635.68
GIRDER 5																					
GIRDER 6																					
S. FLOW LINE	639.80	639.66	639.51	639.35	639.19	639.01	638.84	638.65	638.46	638.26	638.05	637.84	637.61	637.38	637.15	636.90	636.65	636.39	636.13	635.87	635.61

LEGEND

- (EJ) EXPANSION JOINT LOCATION.
- [DD] DECK DRAIN LOCATION. *
- ⬠LP⬠ LIGHT POLE MOUNTING LOCATION. *
- (UL) UNDERDECK LIGHTING ANCHORAGE.

* SEE DETAIL SHEETS FOR ADDITIONAL DECK REINFORCEMENT REQUIRED IN THIS AREA.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

DECK PLAN / REINFORCEMENT 4

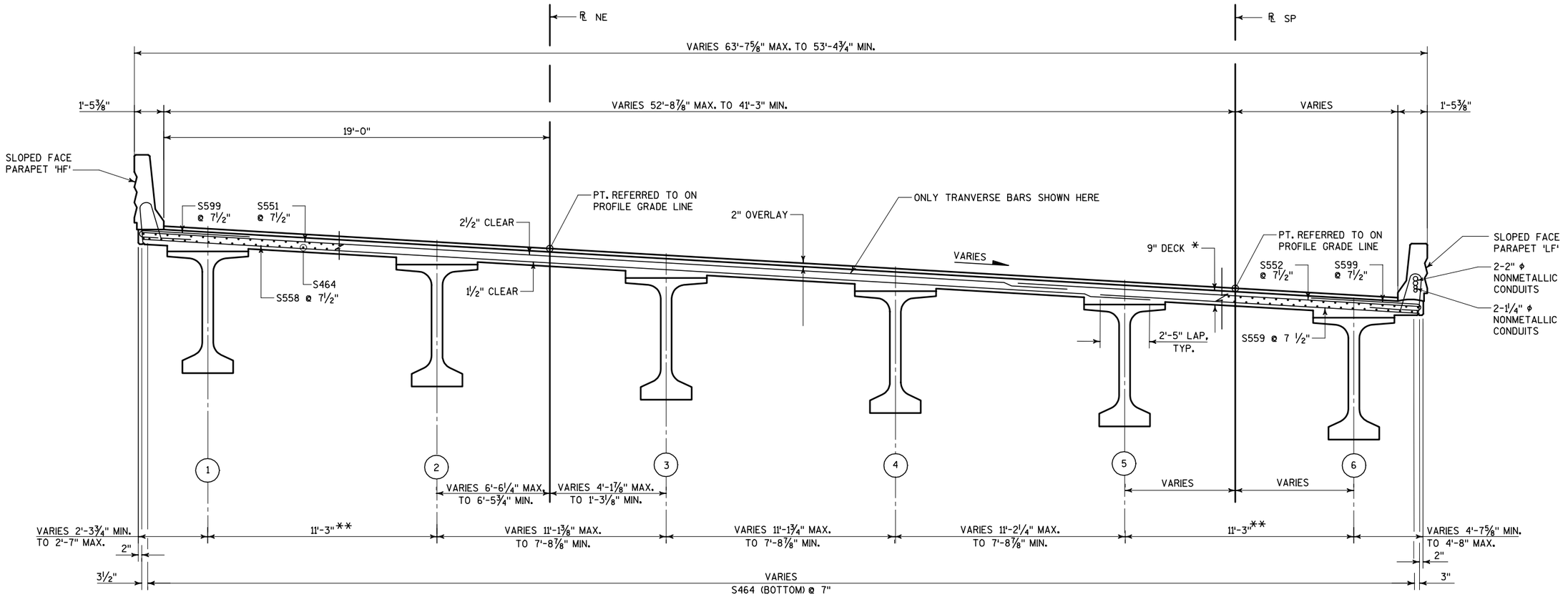
SHEET 302 OF 396

3170

8

STATE PROJECT NUMBER

1060-05-75



DECK SECTION

(SPAN 1, LOOKING EAST)

** DIMENSIONS MEASURED NORMAL TO GIRDER CENTERLINES

NOTES

1. FOR REINFORCEMENT CALLOUTS, SEE DECK / PLAN REINFORCEMENT SHEETS.

* THE CONTRACTOR HAS THE OPTION TO USE PRECAST CONCRETE DECK PANELS INSTEAD OF TRADITIONAL FORMING METHODS. SEE SHEET 353 FOR DETAILS.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

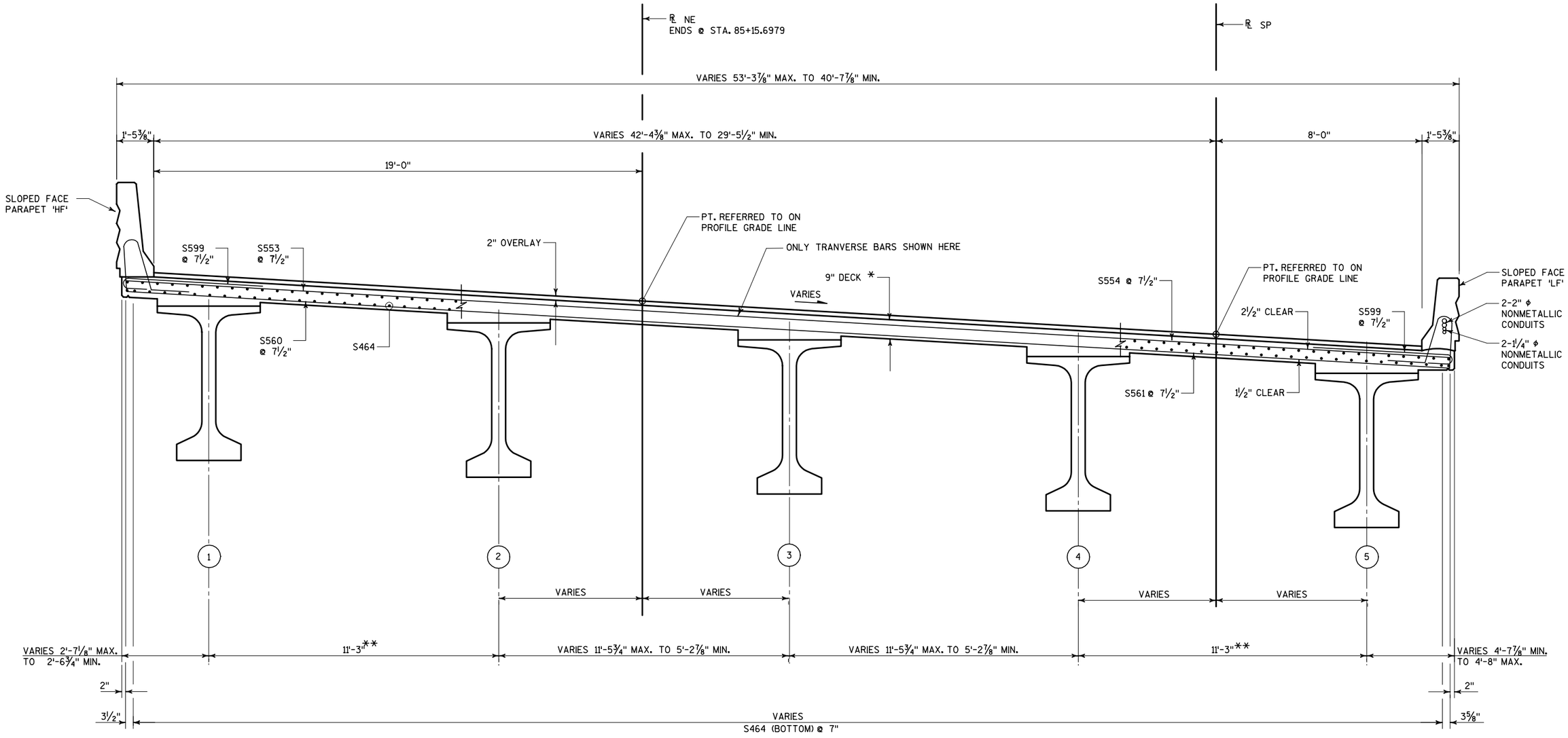
CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	DJS	KES

DECK CROSS SECTION 1

SHEET 303 OF 396

3171

STATE PROJECT NUMBER
1060-05-75



DECK SECTION

(SPANS 2 & 3, LOOKING EAST)

** DIMENSIONS MEASURED NORMAL TO GIRDER CENTERLINES

NOTES:

1. FOR REINFORCEMENT CALLOUTS, SEE DECK PLAN/REINFORCEMENT SHEETS.

* THE CONTRACTOR HAS THE OPTION TO USE PRECAST CONCRETE DECK PANELS INSTEAD OF TRADITIONAL FORMING METHODS. SEE SHEET 353 FOR DETAILS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	DJS	KES

DECK CROSS SECTION 2

SHEET 304 OF 396

3172

8

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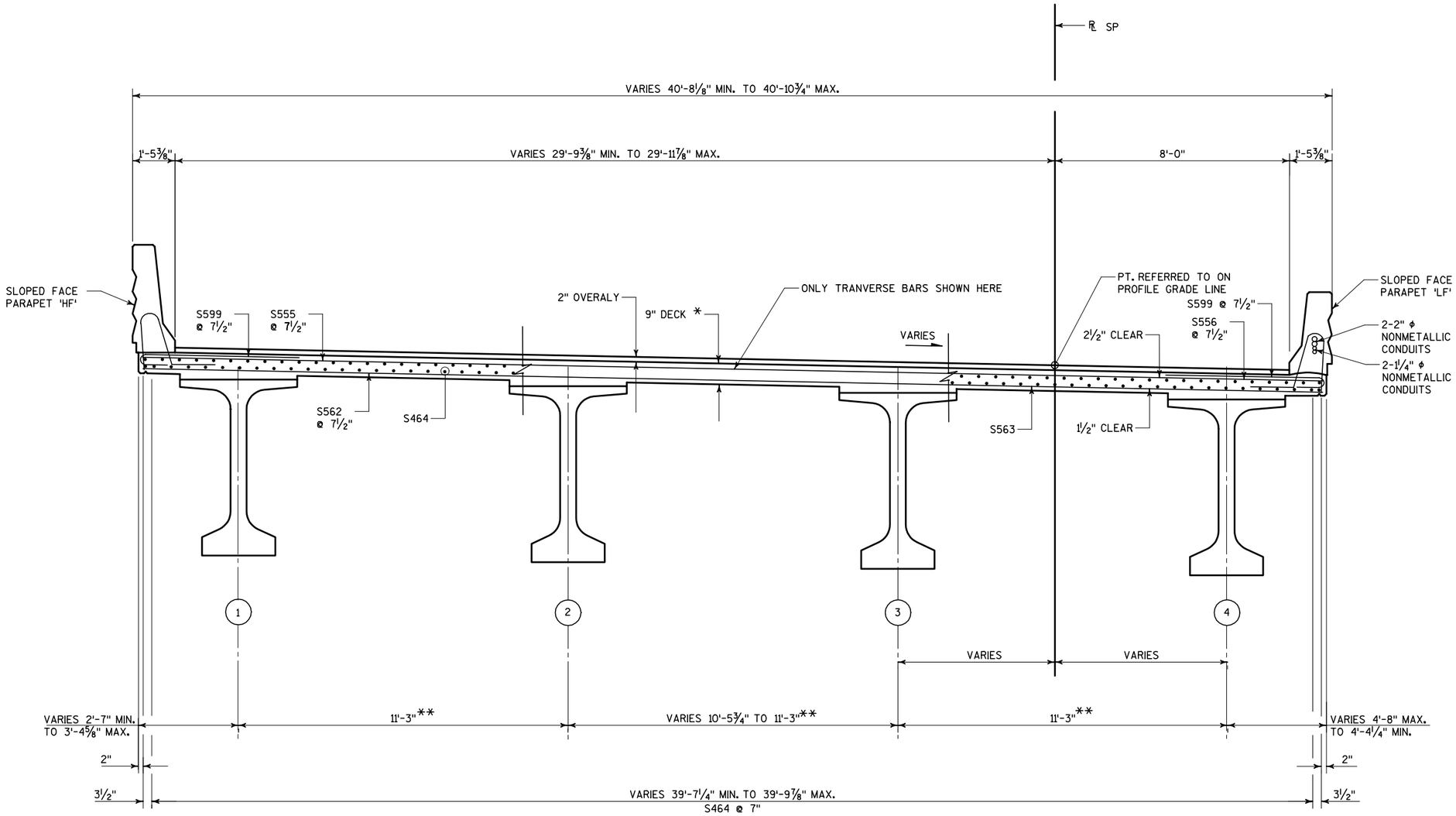


DECK SECTION

(SPAN 4, LOOKING EAST)

** DIMENSIONS MEASURED NORMAL TO GIRDER CENTERLINES

NOTES:

1. FOR REINFORCEMENT CALLOUTS, SEE DECK PLAN/REINFORCEMENT SHEETS.

* THE CONTRACTOR HAS THE OPTION TO USE PRECAST CONCRETE DECK PANELS INSTEAD OF TRADITIONAL FORMING METHODS. SEE SHEET 353 FOR DETAILS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC. 2004	DRAWN BY DJS	PLANS CK'D. KES

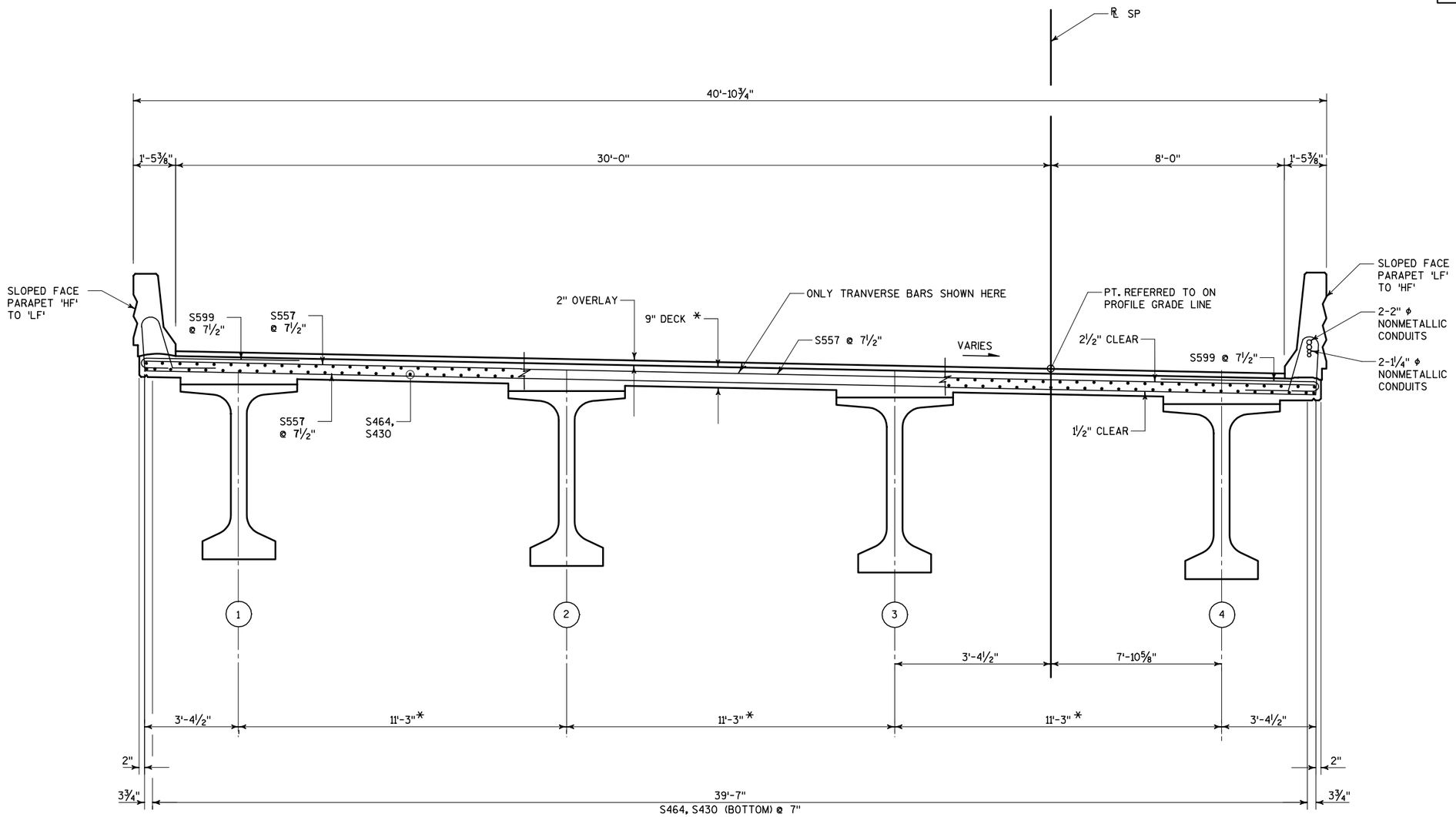
DECK CROSS SECTION 3

SHEET 305 OF 396

3173

8

STATE PROJECT NUMBER
1060-05-75



DECK SECTION

(SPANS 5 - 8, LOOKING EAST)

* DIMENSIONS MEASURED NORMAL TO GIRDER CENTERLINES

NOTES:

1. FOR REINFORCEMENT CALLOUTS, SEE DECK PLAN/REINFORCEMENT SHEETS.
2. THE CONTRACTOR HAS THE OPTION TO USE PRECAST CONCRETE DECK PANELS INSTEAD OF TRADITIONAL FORMING METHODS. SEE SHEET 353 FOR DETAILS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC. 2004	DRAWN BY DJS	PLANS CK'D. KES

DECK CROSS SECTION 4

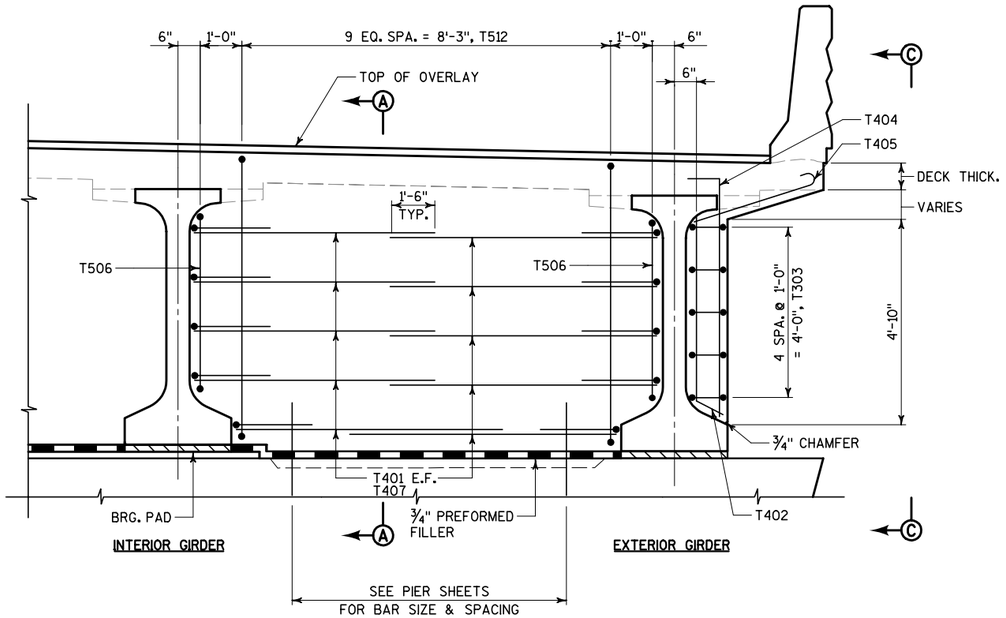
SHEET 306 OF 396

3174

8

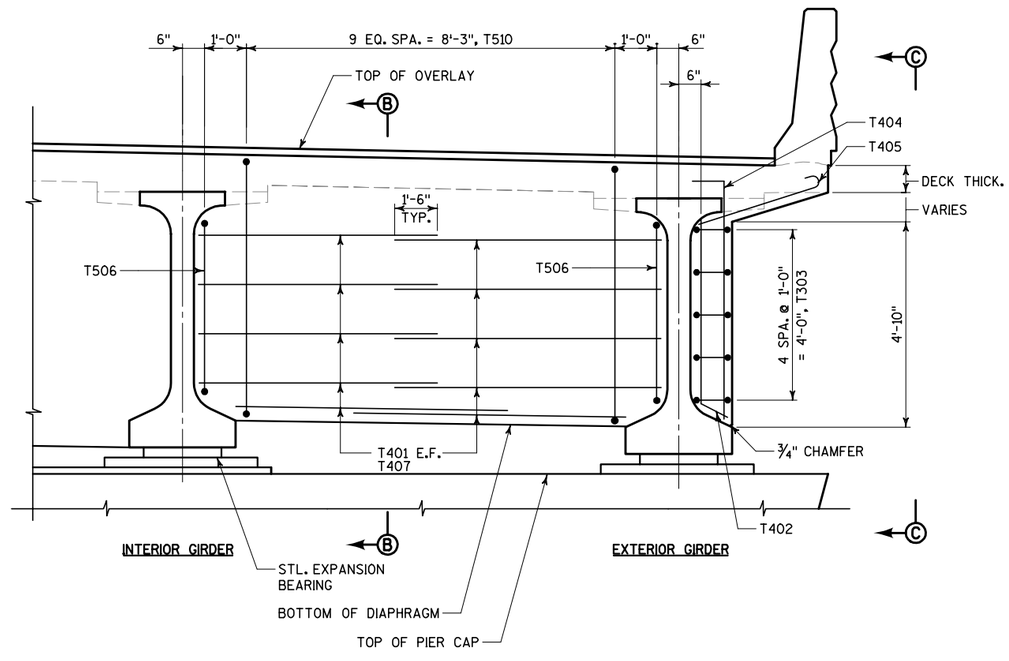
STATE PROJECT NUMBER

1060-05-75



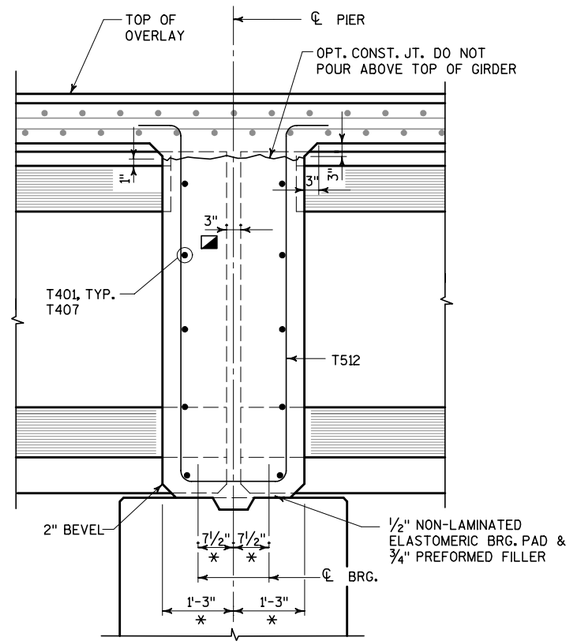
PART TRANSVERSE SECTION AT FIXED PIER DIAPHRAGM

SECTION APPLIES AT PIERS P4-005, P5-005 AND P6-005
SEE SHEET 308 FOR PLAN VIEW AT PIER P4-005

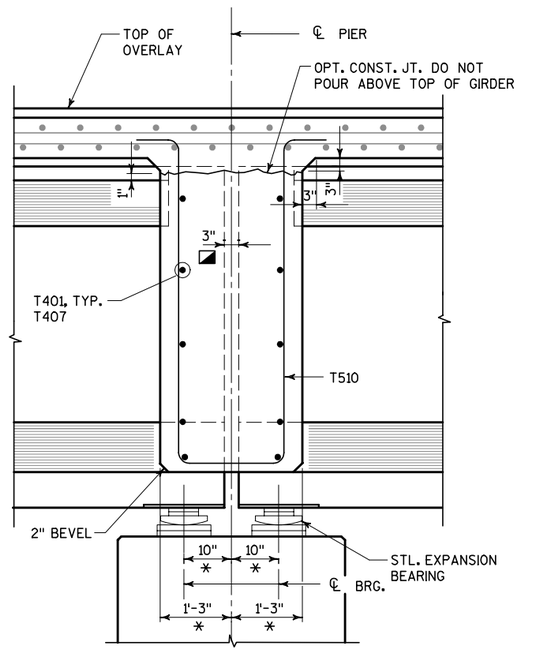


PART TRANSVERSE SECTION AT EXPANSION PIER DIAPHRAGM

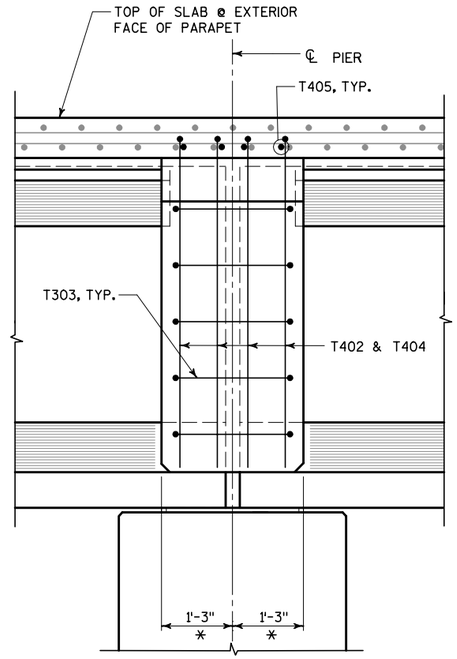
SECTION APPLIES AT PIERS P2-005, P3-005, P7-005 AND P8-005
SEE SHEET 308 FOR PLAN VIEW AT PIER P2-005



SECTION A-A



SECTION B-B



SECTION C-C

(FIXED DIAPHRAGM SHOWN, EXPANSION DIAPHRAGM SIMILAR)

LEGEND

* DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS.

◪ DIMENSION IS TAKEN PARALLEL TO ℄ GIRDER.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	RWN	KES

SUPERSTRUCTURE DETAILS 1

SHEET 307 OF 396

3175

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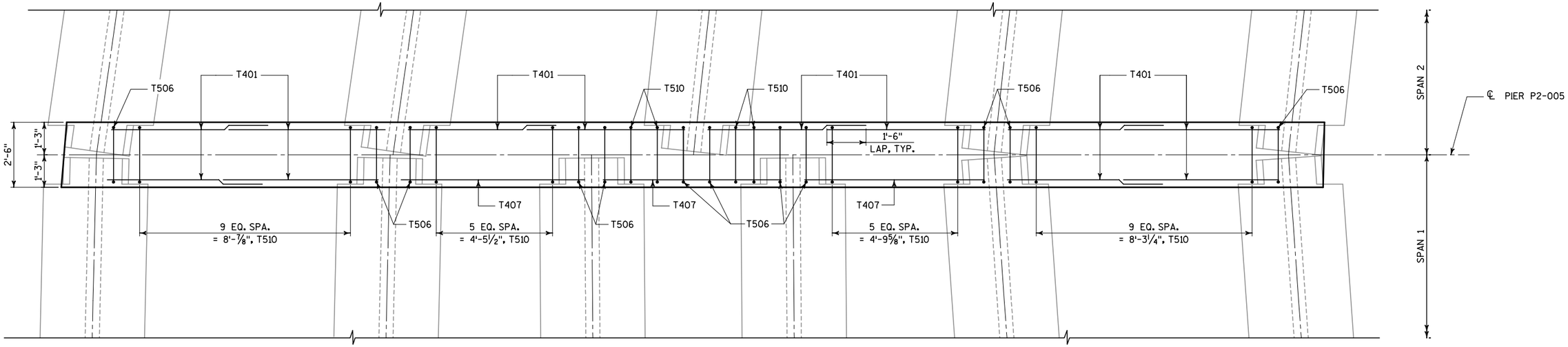
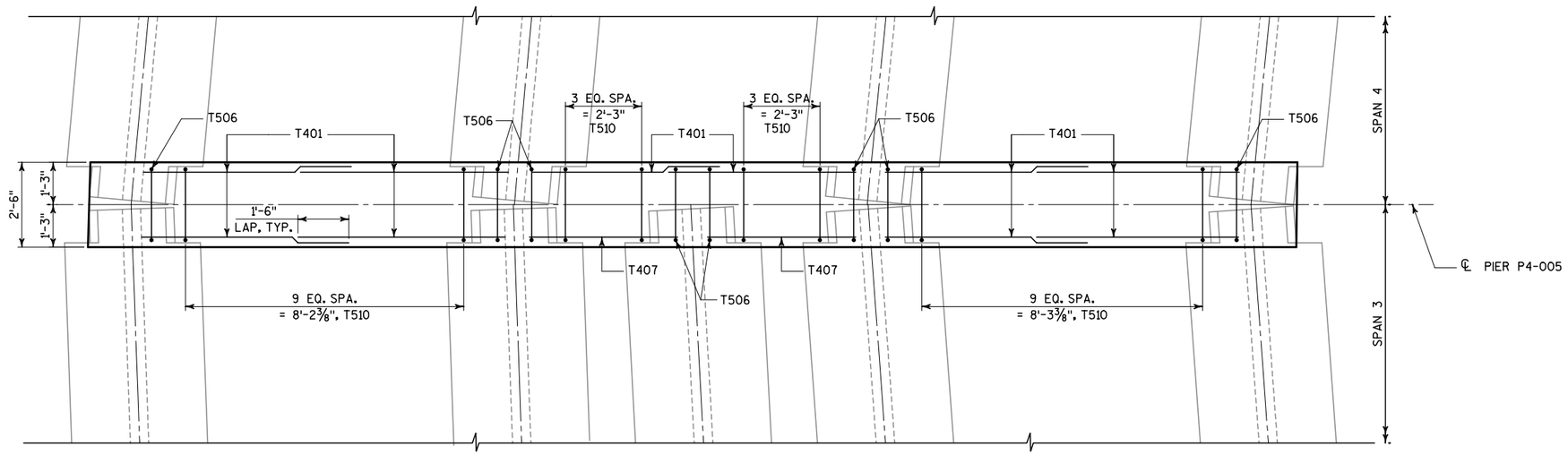


PIER P2-005 DIAPHRAGM PLAN



PIER P4-005 DIAPHRAGM PLAN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

SUPERSTRUCTURE DETAILS 2

SHEET 308 OF 396

3176

8

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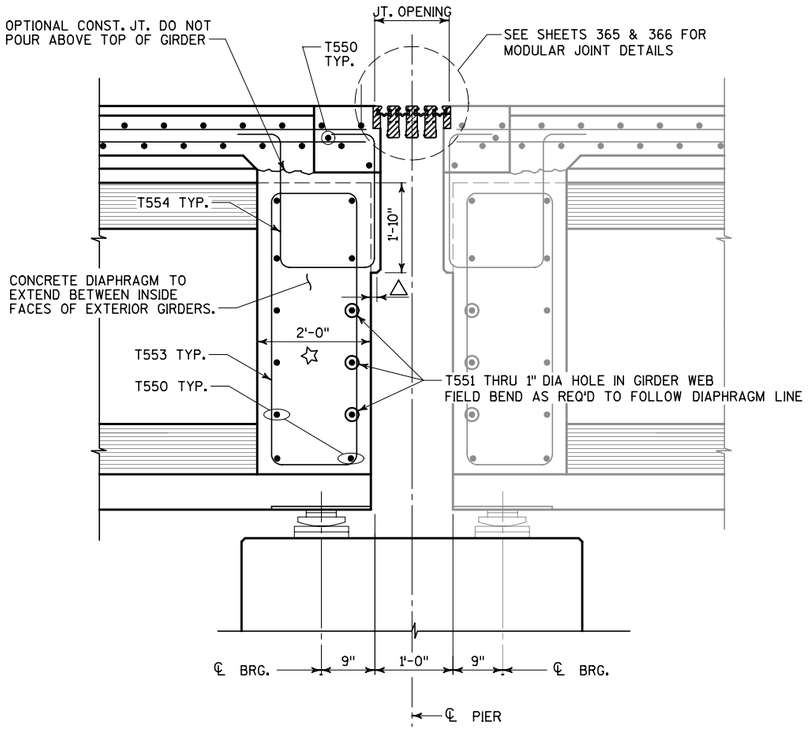
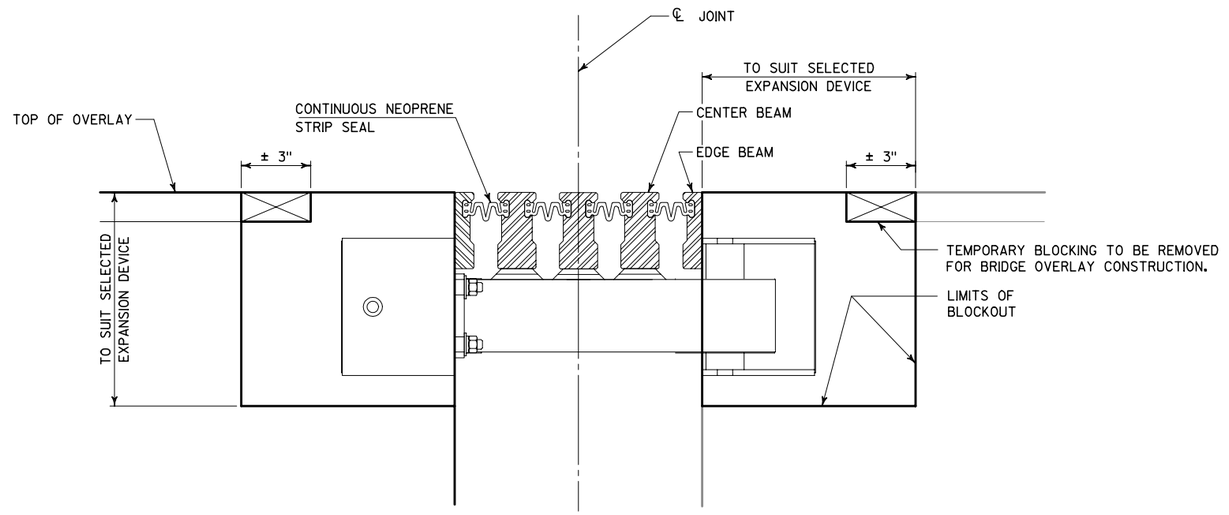
STATE PROJECT NUMBER
1060-05-75

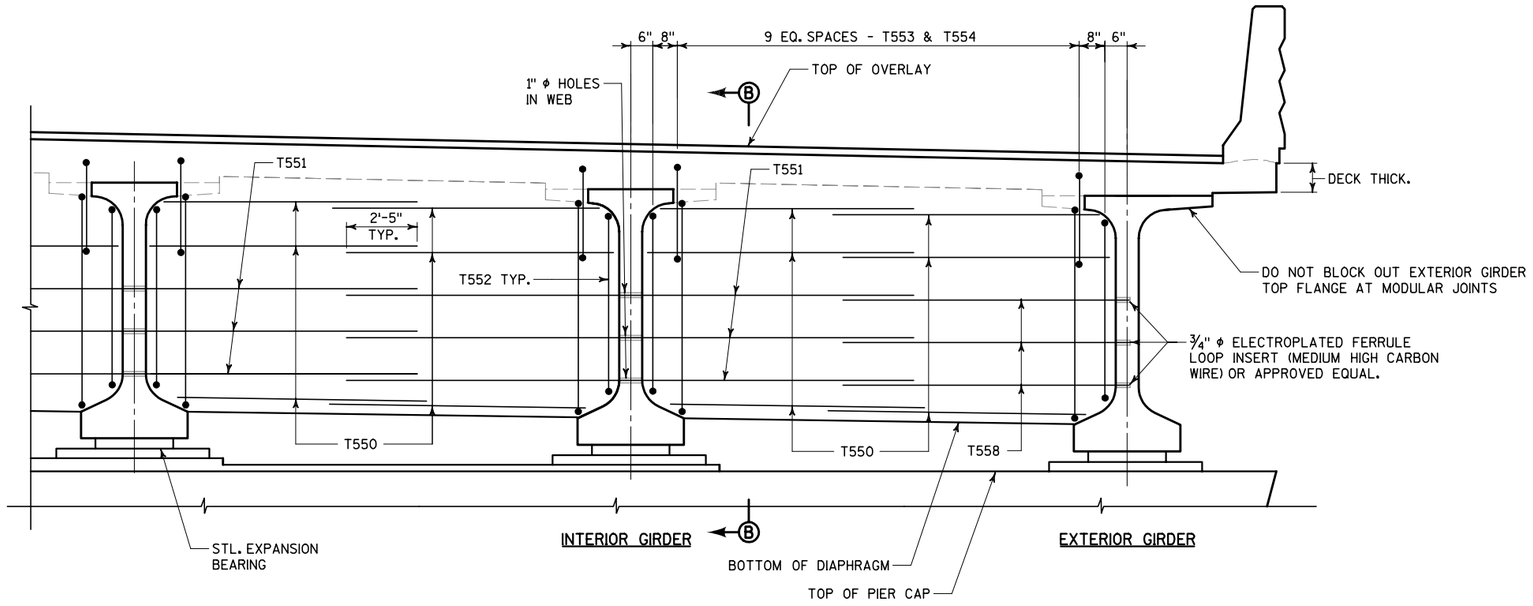


SECTION B-B



TYPICAL SECTION THRU SUPPORT BOX

(NOT TO SCALE)



PART TRANSVERSE SECTION AT MODULAR EXPANSION JT. DIAPHRAGM - PIER P9-005

BACK FACE REINFORCING SHOWN - SEE SECTION B-B FOR FRONT FACE

LEGEND

☆ DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS.

⚠ DIMENSION VARIES BASED ON MANUFACTURER'S RECOMMENDED JT. OPENING, MIN. DIMENSION = 0"

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	2004	DRAWN BY	RWN	PLANS CK'D.	KES

SUPERSTRUCTURE DETAILS 3

SHEET 309 OF 396

3177

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STATE PROJECT NUMBER
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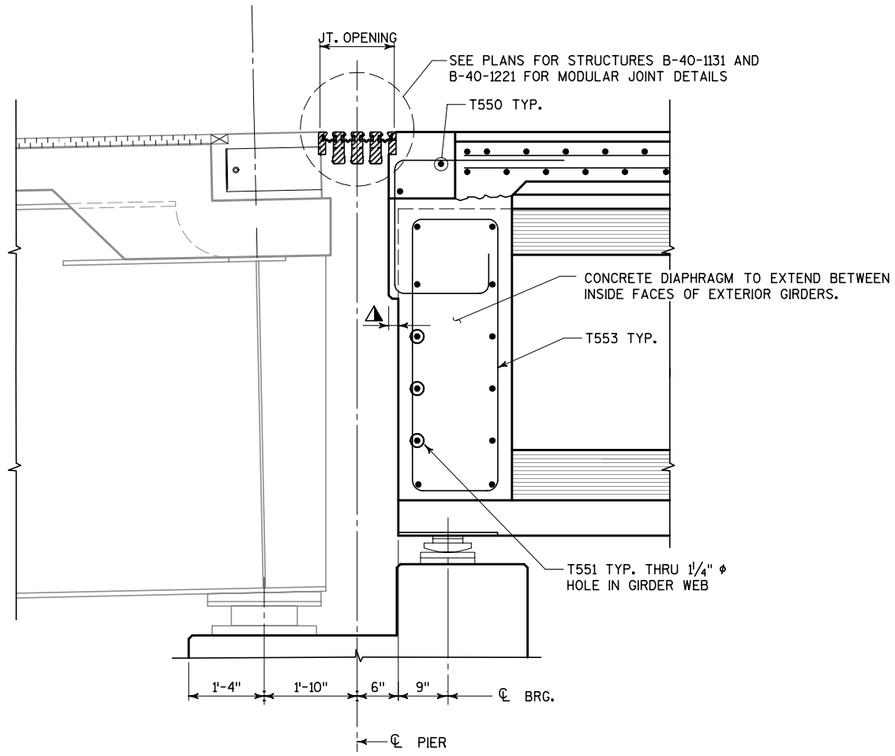
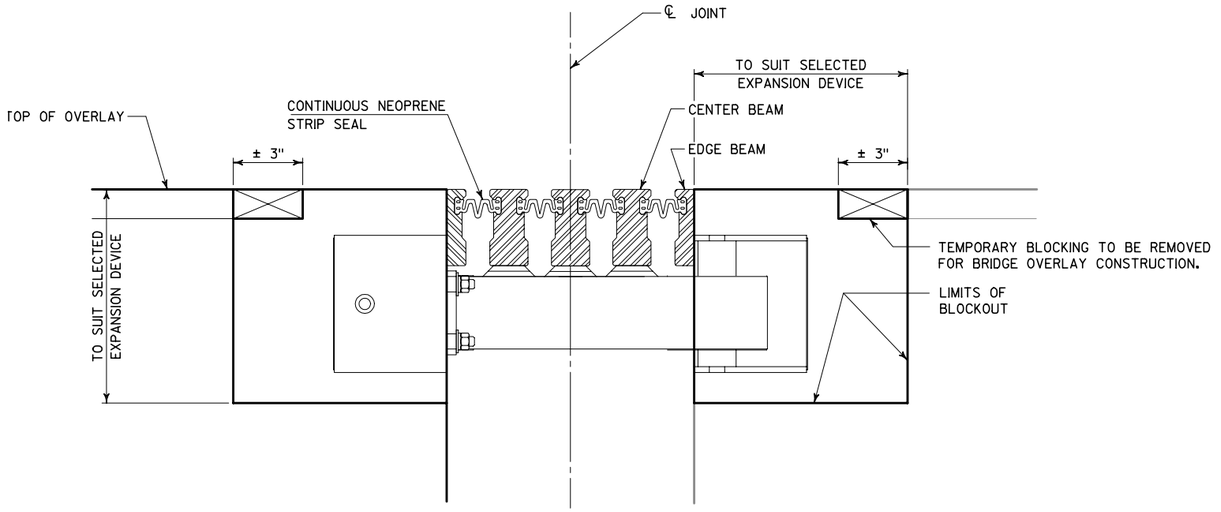


SECTION B-B



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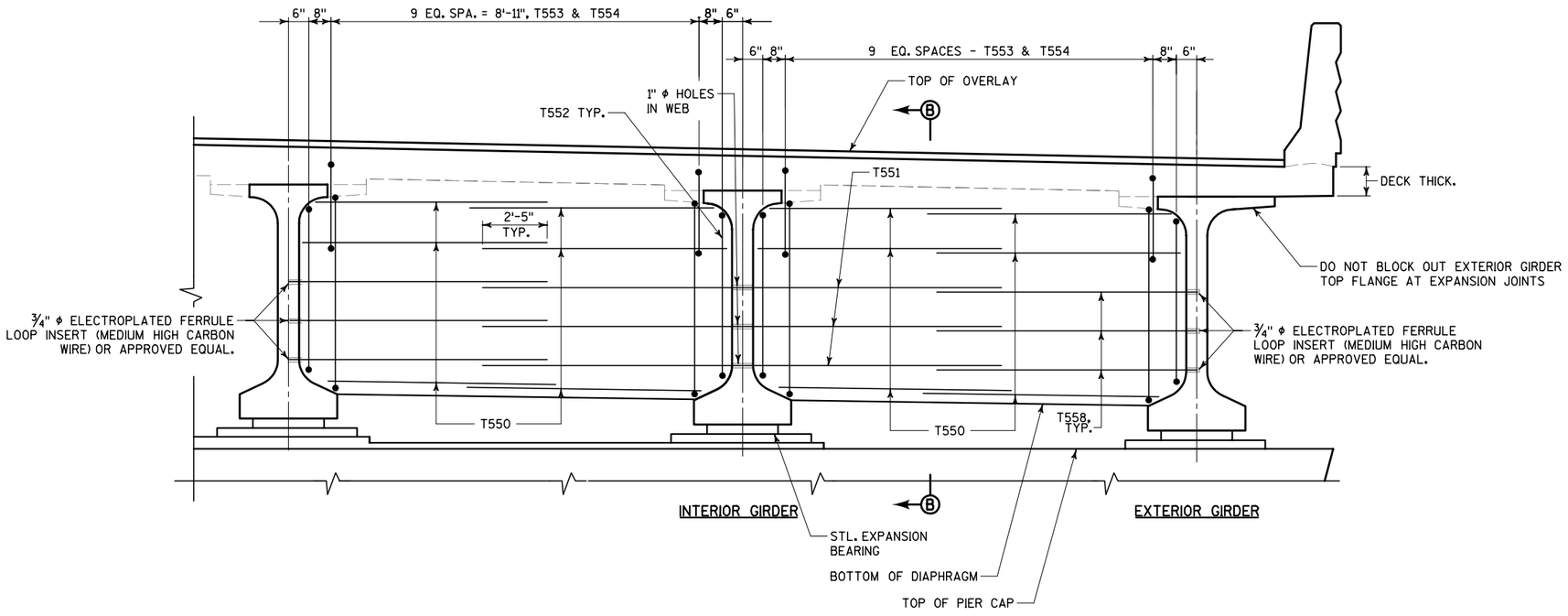

PART TRANSVERSE SECTION AT MODULAR EXPANSION JT. DIAPHRAGMS - PIERS P1A-005 & P1B-005

BACK FACE REINFORCEMENT SHOWN - SEE SECTION B-B FOR FRONT FACE REINFORCEMENT

LEGEND

☆ DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS.

⚠ DIMENSION VARIES BASED ON MANUFACTURER'S RECOMMENDED JT. OPENING, MIN. DIMENSION = 0"

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

SUPERSTRUCTURE DETAILS 4

SHEET 310 OF 396

3178

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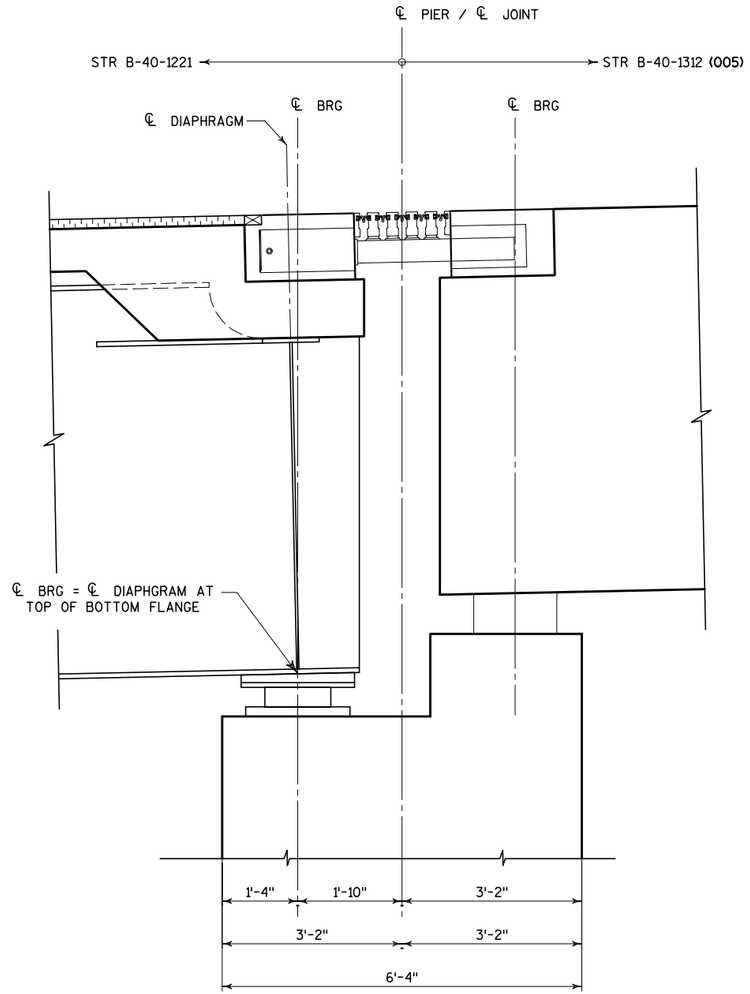
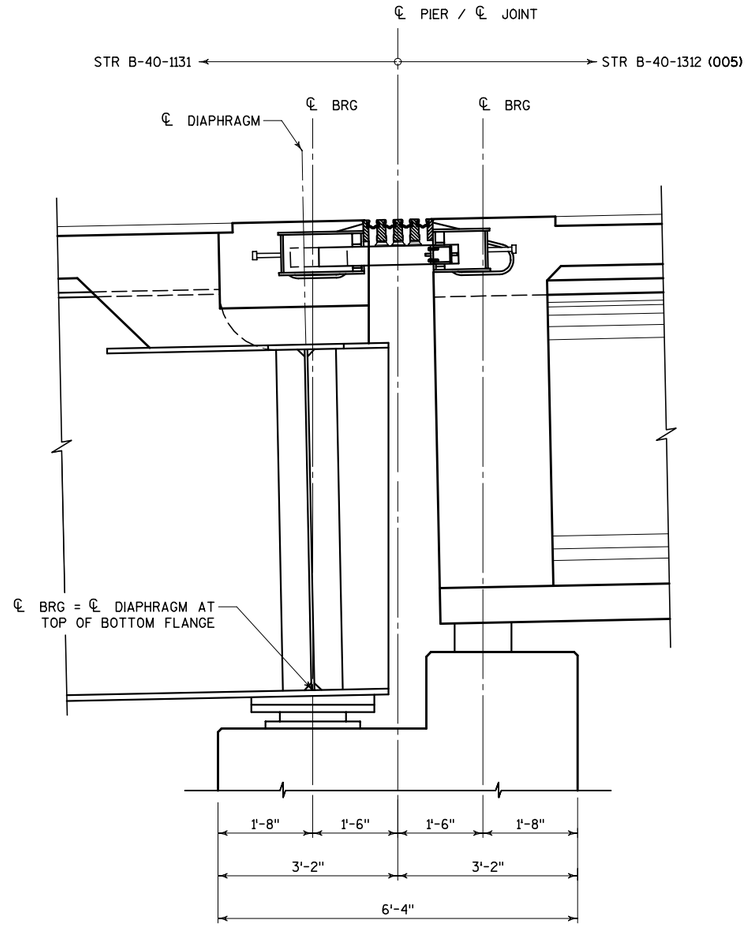
STATE PROJECT NUMBER
1060-05-75



SECTION AT PIER P1A-005

(FOR DETAILS, SEE B-40-1221 PLANS)



SECTION AT PIER P1B-005

(FOR DETAILS, SEE B-40-1131 PLANS)

FOR INFORMATION ONLY

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

SUPERSTRUCTURE DETAILS 5

SHEET 311 OF 396

3179

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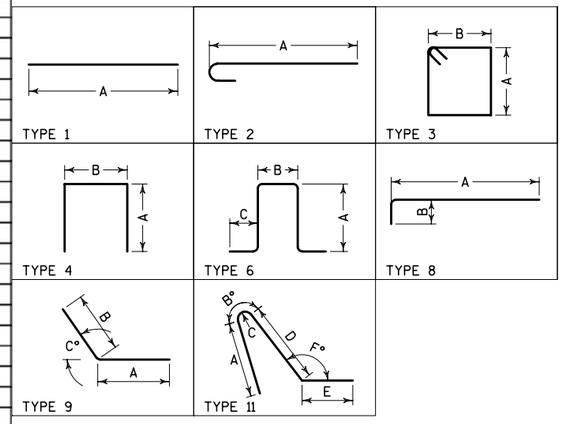
BAR INFORMATION						BAR DIMENSIONS							LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G		
S501	E	2700	5'-4"	15019	11	1'-9"	159°	2"	2'-0"	1'-0"	116°		STANDARD PARAPET DOWELS	
S602	E	42	6'-6"	410	9	3'-3"	3'-3"	83°					LIGHT POLE BASE PARAPET DOWELS	
S603	E	18	6'-5"	173	8	3'-3"	3'-3"						EXTRA TOP AT SIGN BRIDGES	
S605	E	72	14'-9"	1595	2	14'-0"							LIGHT POLE BASE EXTRA TRANSVERSE	
S506	E	20	4'-6"	94	9	2'-3"	2'-3"	15°					LIGHT POLE BASE EXTRA DOWELS	
S507	E	10	4'-2"	43	9	1'-11"	2'-3"	15°					LIGHT POLE BASE EXTRA DOWELS	
S710	E	52	16'-10"	1789	8	16'-0"	1'-0"						EXTRA TOP AT SIGN BRIDGES	
S515	E	12	8'-7"	107	2	8'-0"							EXTRA BOTTOM AT SIGN BRIDGES	
S551	E	178	39'-11"	7402	1	39'-11"							SLAB TOP - TRANSVERSE - NORTH - SPAN 1	"A" VARIES 34'-6" TO 43'-8" (1 SET)
S552	E	178	22'-8"	4203	1	22'-8"							SLAB TOP - TRANSVERSE - SOUTH - SPAN 1	
S553	E	385	27'-11"	11207	1	27'-11"							SLAB TOP - TRANSVERSE - NORTH - SPAN 2 & 3	"A" VARIES 23'-1" TO 32'-8" (1 SET)
S554	E	385	23'-3"	9347	1	23'-3"							SLAB TOP - TRANSVERSE - SOUTH - SPAN 2 & 3	
S555	E	191	22'-3"	4426	1	22'-3"							SLAB TOP - TRANSVERSE - NORTH - SPAN 4	
S556	E	191	23'-9"	4725	1	23'-9"							SLAB TOP- TRANSVERSE - SOUTH - SPAN 4	
S557	E	1424	40'-0"	59415	1	40'-0"							SLAB TOP & BOTTOM - TRANSVERSE - SPAN 5-8	
S558	E	178	34'-2"	6328	1	34'-2"							SLAB BOTTOM - TRANSVERSE - NORTH - SPAN 1	"A" VARIES 30'-8" TO 37'-7" (1 SET)
S559	E	178	26'-8"	4945	1	26'-8"							SLAB BOTTOM - TRANSVERSE - SOUTH - SPAN 1	"A" VARIES 25'-2" TO 28'-2" (1 SET)
S560	E	385	24'-8"	9917	1	24'-8"							SLAB BOTTOM - TRANSVERSE - NORTH - SPAN 2 &3	
S561	E	385	25'-11"	10403	1	25'-11"							SLAB BOTTOM - TRANSVERSE - SOUTH - SPAN 2 & 3	"A" VARIES 22'-9" TO 29'-0" (1 SET)
S562	E	191	22'-9"	4526	1	22'-9"							SLAB BOTTOM - TRANSVERSE - NORTH - SPAN 4	
S563	E	191	23'-9"	4725	1	23'-9"							SLAB BOTTOM - TRANSVERSE - SOUTH - SPAN 4	
S464	E	1948	40'-0"	52051	1	40'-0"							SLAB LONGITUDINAL - TOP SPANS 1-6, BOTTOM ALL SPANS	
S465	E	95	10'-10"	687	1	10'-10"							SLAB TOP - LONGITUDINAL - SPAN 1 BEGIN	
S566	E	150	10'-5"	1630	1	10'-5"							SLAB TOP - LONGITUDINAL - SPANS 1 & 6	
S767	E	80	47'-0"	7685	1	47'-0"							SLAB TOP - LONGITUDINAL - PIER 2	
S768	E	80	13'-10"	2262	1	13'-10"							SLAB TOP - LONGITUDINAL - PIER 2	
S569	E	80	11'-5"	953	1	11'-5"							SLAB TOP - LONGITUDINAL - SPAN 2	
S470	E	74	29'-10"	1475	1	29'-10"							SLAB TOP - LONGITUDINAL - SPAN 2	
S671	E	68	50'-0"	5107	1	50'-0"							SLAB TOP - LONGITUDINAL - PIER 3	
S672	E	68	30'-0"	3064	1	30'-0"							SLAB TOP - LONGITUDINAL - PIER 3	
S473	E	64	30'-4"	1298	1	30'-4"							SLAB TOP - LONGITUDINAL - SPAN 3 SERIES	"A" VARIES FROM 27'-2" TO 33'-8" (1 SET)
S674	E	62	60'-0"	5587	1	60'-0"							SLAB TOP - LONGITUDINAL - PIER 4	
S675	E	124	37'-0"	6891	1	37'-0"							SLAB TOP - LONGITUDINAL - PIERS 4 & 8	
S476	E	62	15'-8"	649	1	15'-8"							SLAB TOP - LONGITUDINAL - SPAN 4 SERIES	"A" VARIES 13'-4" TO 18'-1" (1 SET)
S677	E	62	58'-0"	5401	1	58'-0"							SLAB TOP - LONGITUDINAL - PIER 5	
S678	E	62	36'-0"	3352	1	36'-0"							SLAB TOP - LONGITUDINAL - PIER 5	
S579	E	62	9'-5"	609	1	9'-5"							SLAB TOP - LONGITUDINAL - SPAN 5	
S480	E	62	17'-7"	728	1	17'-7"							SLAB TOP - LONGITUDINAL - SPAN 5	
S681	E	62	54'-0"	5029	11	54'-0"							SLAB TOP - LONGITUDINAL - PIER 6	
S682	E	62	35'-0"	3259	1	35'-0"							SLAB TOP - LONGITUDINAL - PIER 6	
S483	E	62	11'-9"	487	1	11'-9"							SLAB TOP - LONGITUDINAL - SPAN 6	
S684	E	124	59'-0"	10989	1	59'-0"							SLAB TOP - LONGITUDINAL - PIERS 7 & 8	
S685	E	62	31'-0"	2887	1	31'-0"							SLAB TOP - LONGITUDINAL - PIER 7	
S486	E	62	21'-8"	897	1	21'-8"							SLAB TOP - LONGITUDINAL - SPAN 7	
S487	E	62	22'-4"	925	1	22'-4"							SLAB TOP - LONGITUDINAL - SPAN 7	
S588	E	62	15'-5"	997	1	15'-5"							SLAB TOP - LONGITUDINAL - SPAN 7	
S489	E	186	27'-8"	3438	1	27'-8"							SLAB TOP - LONGITUDINAL - SPAN 8 & PIER 9	
S430	E	62	15'-5"	638	1	15'-5"							SLAB TOP - LONGITUDINAL - PIER 9	
S590	E	48	20'-0"	1001	1	20'-0"							SLAB - LONGITUDINAL AT DECK DRAINS	
S792	E	24	20'-0"	981	1	20'-0"							SLAB - LONGITUDINAL AT DECK DRAINS	
S893	E	96	20'-0"	5126	1	20'-0"							SLAB - LONGITUDINAL AT DECK DRAINS	
S694	E	56	10'-11"	918	8	5'-6"	5'-6"						SLAB - TRANSVERSE AT DECK DRAINS	
S599	E	2795	6'-0"	17491	2	5'-6"							SLAB - TRANSVERSE AT EDGE OF DECK	
T401	E	390	6'-0"	1563	1	6'-0"							DIAPHRAGM - HORIZONTAL	
T402	E	56	4'-8"	175	9	4'-1"	7"	65°					DIAPHRAGM - VERTICAL	
T303	E	70	5'-9"	151	3	6½"	2'-1"						DIAPHRAGM - HORIZONTAL	
T404	E	56	6'-1"	228	8	5'-6"							DIAPHRAGM - VERTICAL	
T405	E	56	3'-7"	134	2	3'-1"							DIAPHRAGM - VERTICAL	
T506	E	52	12'-9"	692	3	3'-11"	2'-1"						DIAPHRAGM - VERTICAL	
T407	E	80	4'-2"	223	1	4'-2"							DIAPHRAGM - HORIZONTAL	
T510	E	138	15'-6"	2231	6	5'-10"	2'-1"	1'-0"					DIAPHRAGM - VERTICAL - PIERS P2-005, P3-005, P7-005, P8-005	
T512	E	88	16'-2"	1484	6	6'-2"	2'-1"	1'-0"					DIAPHRAGM - VERT. - PIERS P4-005, P5-005 & P6-005	
T550	E	156	6'-4"	1030	1	6'-4"							MODULAR EXPANSION JT. DIAPH. - HORIZONTAL	
T551	E	18	13'-8"	257	1	13'-8"							MODULAR EXPANSION JT. DIAPH. - HORIZONTAL	
T552	E	16	11'-9"	196	3	3'-11"	1'-7'						MODULAR EXPANSION JT. DIAPH. - VERTICAL	
T553	E	80	13'-11"	1161	3	5'-0"	1'-7'						MODULAR EXPANSION JT. DIAPH. - VERTICAL	
T554	E	80	8'-1"	674	27	0'-10"	2'-7"	1'-7"	0'-10"	90^			MODULAR EXPANSION JT. DIAPH. - VERTICAL	
T558	E	12	6'-7"	82	1	6'-7"							MODULAR EXPANSION JT. DIAPH. - HORIZ. - THREADED	
		TOTAL WEIGHT =		325580	LBS									

STATE PROJECT NUMBER

1060-05-75

NOTES:

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. SEE THE ACCOMPANYING BAR SERIES TABLE FOR SET COUNT AND BAR LENGTHS.
5. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
6. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.



NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

SUPERSTRUCTURE REINF. SCHEDULE

SHEET 312 OF 396

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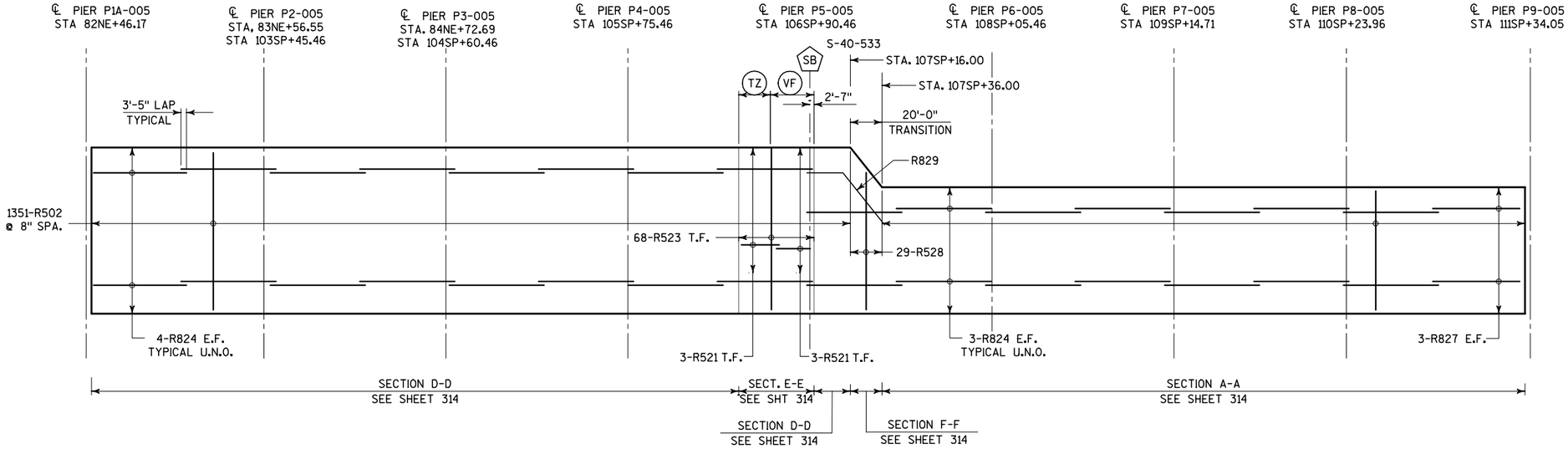
STATE PROJECT NUMBER

1060-05-75



LEFT SIDE PARAPET ELEVATION

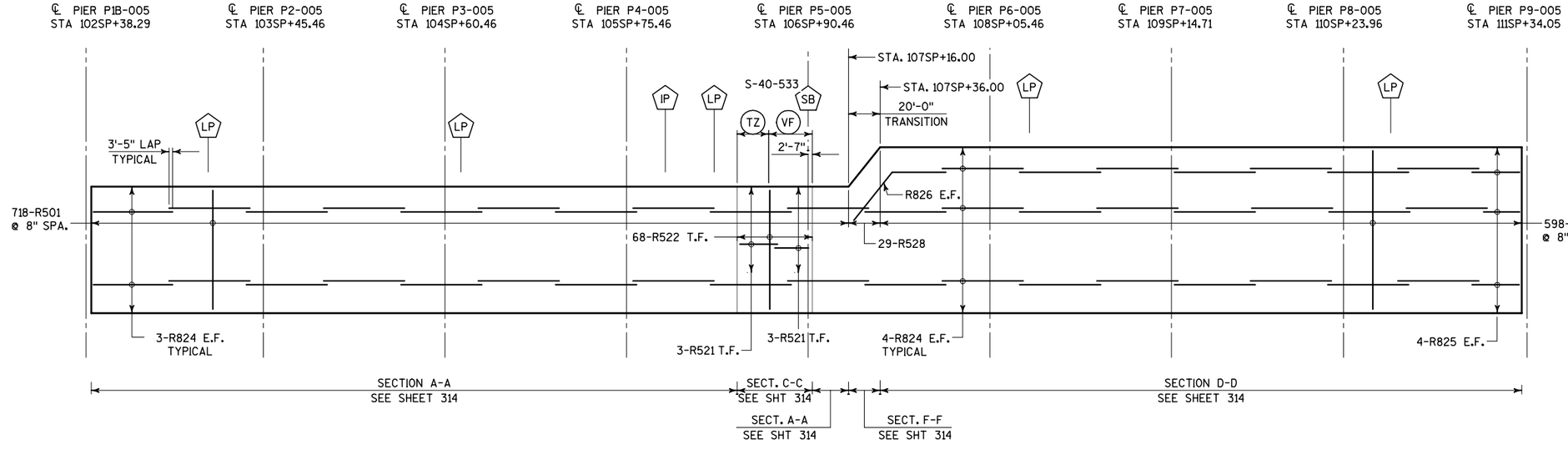
LOOKING LEFT AT TRAFFIC FACE

(NOT TO SCALE - SURFACE FEATURES NOT SHOWN)

LEGEND

- (LP) LIGHT POLE MOUNTING LOCATION. SEE SHEETS 373 TO 376.
- (SB) SIGN BRIDGE MOUNTING LOCATION. SEE SHEETS 377 TO 380.
- (VF) 25'-0" VERTICAL FACE BARRIER SECTION - SEE SECTION E-E ON SHEET 314.

  VERTICAL FACE BEGINS 22'-5" FROM CENTERLINE SIGN BRIDGE AS SHOWN AND TERMINATES AT THE DOWNSTREAM END OF THE SIGN BRIDGE BASE.
- (TZ) 20'-0" TRANSITION ZONE FROM SAFETY SHAPE TO VERTICAL FACE BARRIER - SEE SECTION E-E ON SHEET 314.
- T.F. DENOTES BARS LOCATED ON 'TRAFFIC FACE' OF PARAPET.
- E.F. DENOTES BARS LOCATED ON BOTH FACES OF PARAPET ('EACH FACE').



RIGHT SIDE PARAPET ELEVATION

LOOKING LEFT AT EXTERIOR FACE

(NOT TO SCALE - SURFACE FEATURES NOT SHOWN)

NOTES

1. SEE SHEET 3 & 4 FOR GENERAL NOTES.
2. UNLESS INSTALLATION IS EXPLICITLY COVERED BY A SEPARATE PAY ITEM, INSTALLATION OF ALL EMBEDMENTS IS CONSIDERED INCIDENTAL TO PAY ITEM SPV.0090.2040 - PARAPET BRIDGE FREEWAY STRUCTURES.

   SUPPLY OF EMBEDMENTS IS INCLUDED UNDER OTHER PAY ITEMS - SEE QUANTITIES SHEET.

   SUPPLY OF EXPANSION FITTINGS FOR CONDUIT IS CONSIDERED INCIDENTAL TO THE PAY ITEM FOR THE CONDUIT BEING CONNECTED.
3. ALL EXPOSED CONDUIT ENDS SHALL BE SUPPLIED WITH TEMPORARY WEATHERPROOF CAPS TO PREVENT INGRESS OF MOISTURE PRIOR TO LIGHT POLE OR SIGN BRIDGE INSTALLATION.

8

NO.	DATE	REVISION	BY

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DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	DJS	KES

PARAPET ELEVATIONS

SHEET 313 OF 396

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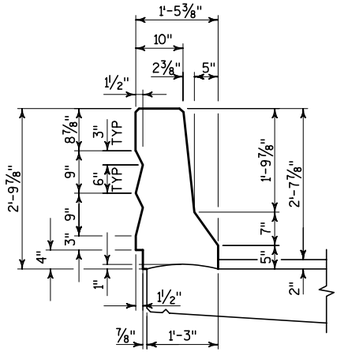
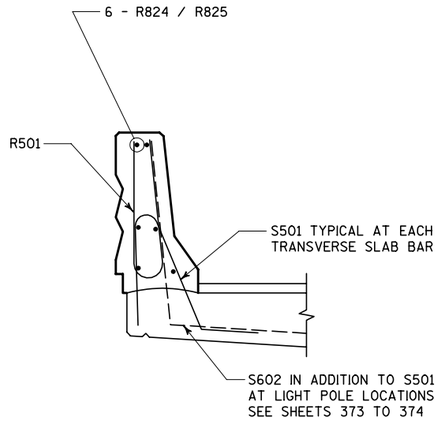
STATE PROJECT NUMBER

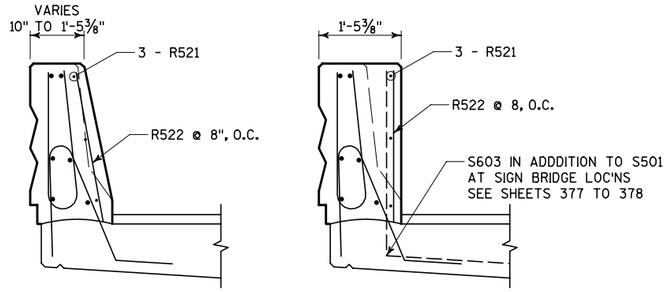
1060-05-75



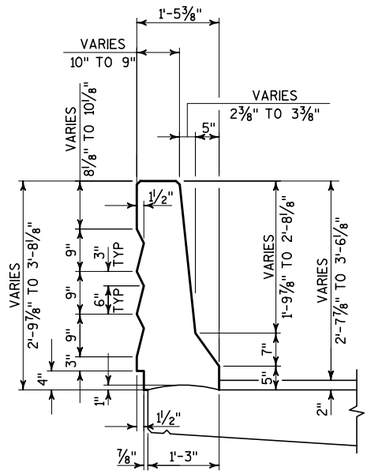
SECTION A-A
(SHOWING DIMENSIONS)



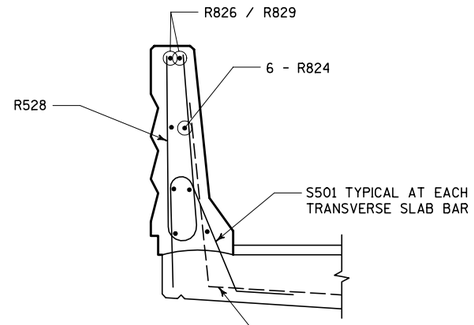
SECTION A-A
(SHOWING REINFORCEMENT)



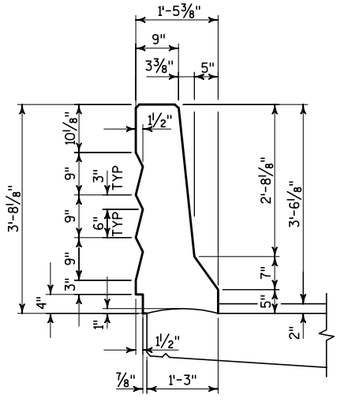
SECTION C-C



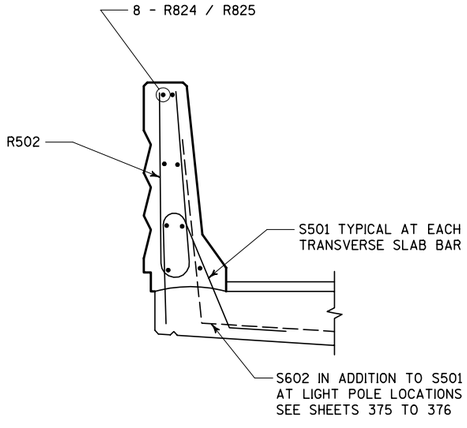
SECTION F-F
(SHOWING DIMENSIONS)



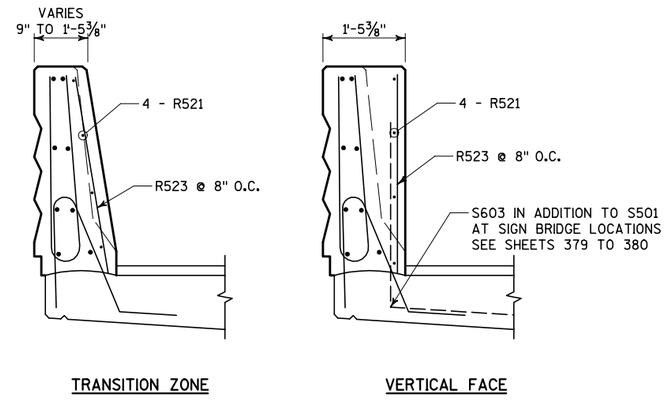
SECTION F-F
(SHOWING REINFORCEMENT)



SECTION D-D
(SHOWING DIMENSIONS)



SECTION D-D
(SHOWING REINFORCEMENT)



SECTION E-E

NOTES

1. SEE SHEET 3 & 4 FOR GENERAL NOTES.
2. UTILITY CONDUITS NOT SHOWN IN SECTIONS. SEE SHEET 315 FOR NUMBER, SIZE AND EXTENT OF CONDUITS REQUIRED.
3. INSTALLATION OF ALL EMBEDDED ITEMS IS CONSIDERED INCIDENTAL TO PAY ITEM SPV.0090.2040 - PARAPET BRIDGE (FREEWAY STRUCTURES).

   SUPPLY OF EMBEDDED ITEMS IS INCLUDED UNDER OTHER PAY ITEMS - SEE QUANTITIES SHEETS

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

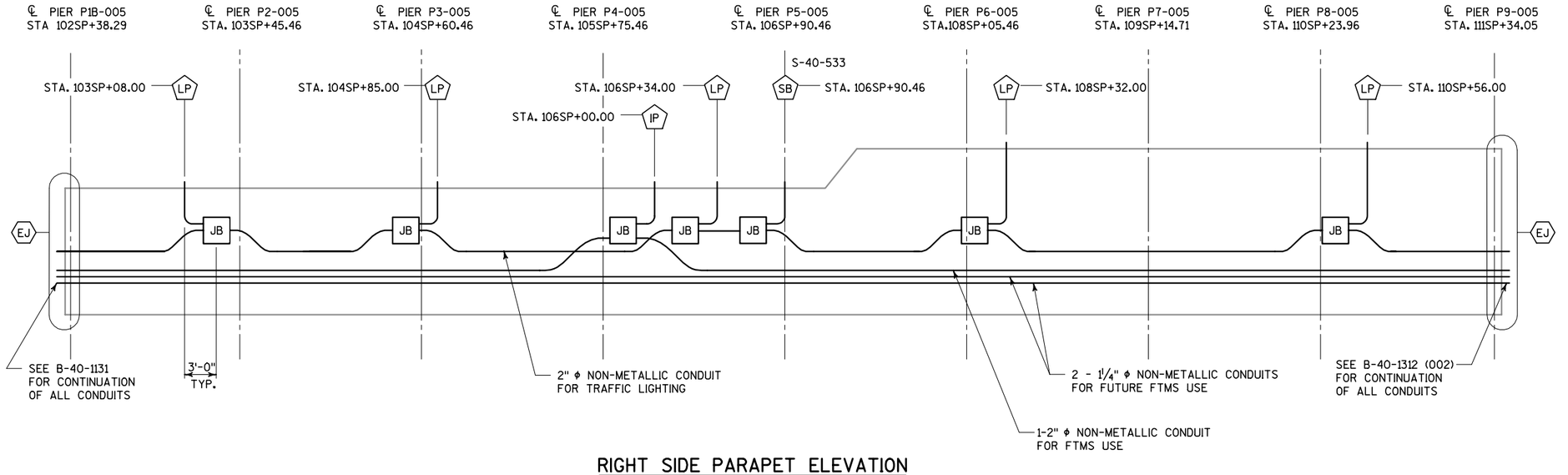
CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PARAPET SECTIONS

SHEET 314 OF 396

3182

STATE PROJECT NUMBER
1060-05-75



RIGHT SIDE PARAPET ELEVATION

LOOKING LEFT AT EXTERIOR FACE

(NOT TO SCALE - SURFACE FEATURES NOT SHOWN)

LEGEND

- (EJ) EXPANSION JOINT LOCATION. SEE SHEET 316 FOR DETAILS OF CONDUIT JOINTS REQUIRED IN THIS AREA (IF CONDUITS ARE PRESENT).
- (LP) LIGHT POLE MOUNTING LOCATION - INSTALLATION OF ANCHOR ASSEMBLY REQUIRED. SEE SHEETS 373 TO 376.
- (SB) SIGN BRIDGE MOUNTING LOCATION - INSTALLATION OF ANCHOR ASSEMBLY REQUIRED. SEE SHEETS 377 TO 380.
- [JB] JUNCTION BOX LOCATION - 14" X 8" X 6" TYPICAL. LOCATE ON TRAFFIC FACE OF BARRIER WITH TOP EDGE OF BOX 8" BELOW TOP OF PARAPET UNLESS OTHERWISE NOTED. RESPACE PARAPET REINFORCEMENT LOCALLY AS REQUIRED TO CLEAR.

NOTES

1. SEE SHEET 3 & 4 FOR GENERAL NOTES.
2. UNLESS INSTALLATION IS EXPLICITLY COVERED BY A SEPARATE PAY ITEM, INSTALLATION OF ALL EMBEDMENTS IS CONSIDERED INCIDENTAL TO PAY ITEM SPV.0090.2040 - PARAPET BRIDGE FREEWAY STRUCTURES.

   SUPPLY OF EMBEDMENTS IS INCLUDED UNDER OTHER PAY ITEMS - SEE QUANTITIES SHEET.

   SUPPLY OF EXPANSION FITTINGS FOR CONDUIT IS CONSIDERED INCIDENTAL TO THE PAY ITEM FOR THE CONDUIT BEING CONNECTED.
3. ALL EXPOSED CONDUIT ENDS SHALL BE SUPPLIED WITH TEMPORARY WEATHERPROOF CAPS TO PREVENT INGRESS OF MOISTURE PRIOR TO LIGHT POLE OR SIGN BRIDGE INSTALLATION.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC. 2004	DRAWN BY KGW	PLANS CK'D. KES

PARAPET EMBEDDED WORK

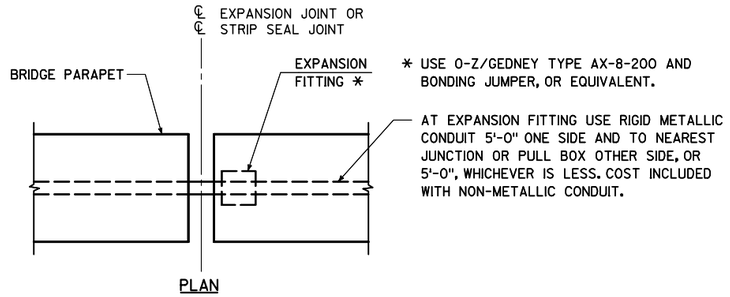
SHEET 315 OF 396

3183

FILE NAME: R:\C\bridges\1312\cds\1312-05C070D.dgn PEN TABLE: \\mtp\FinalDgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:42 Plotted by: emccrigh

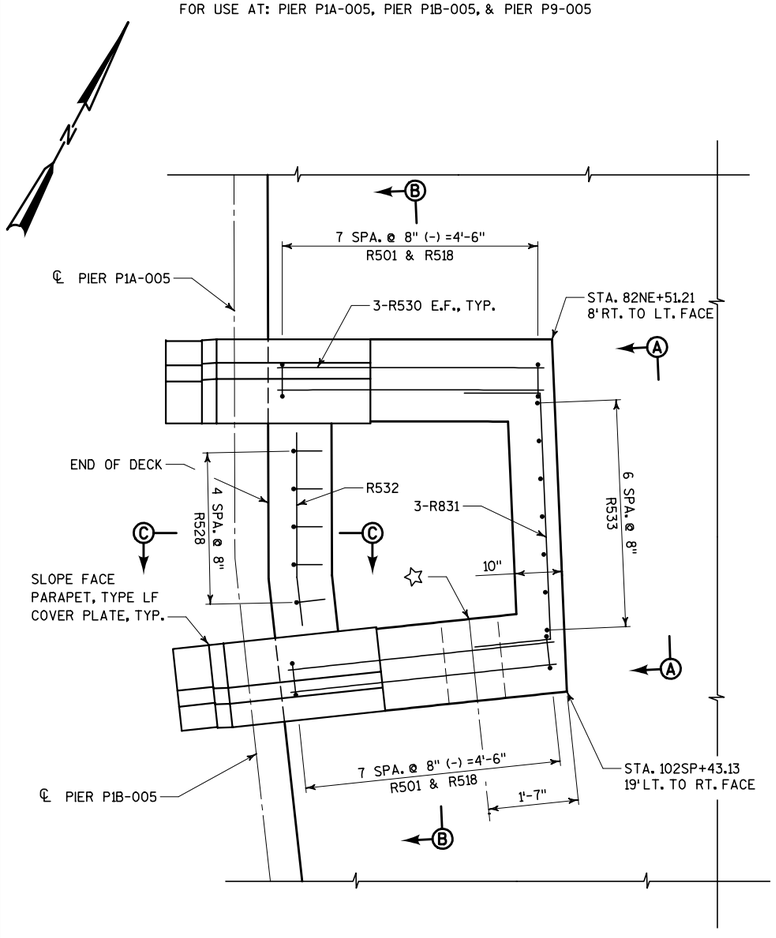
STATE PROJECT NUMBER

1060-05-72



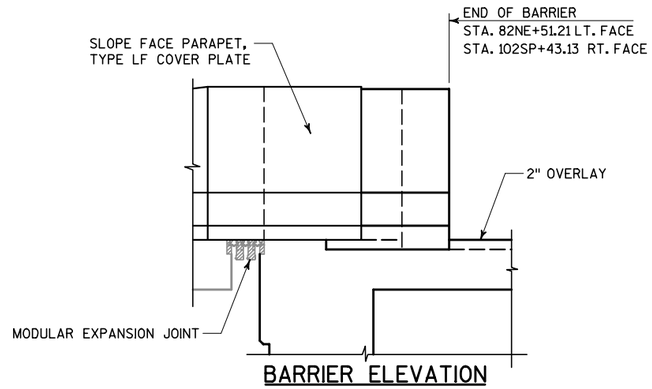
CONDUIT EXPANSION JOINT

FOR USE AT: PIER P1A-005, PIER P1B-005, & PIER P9-005



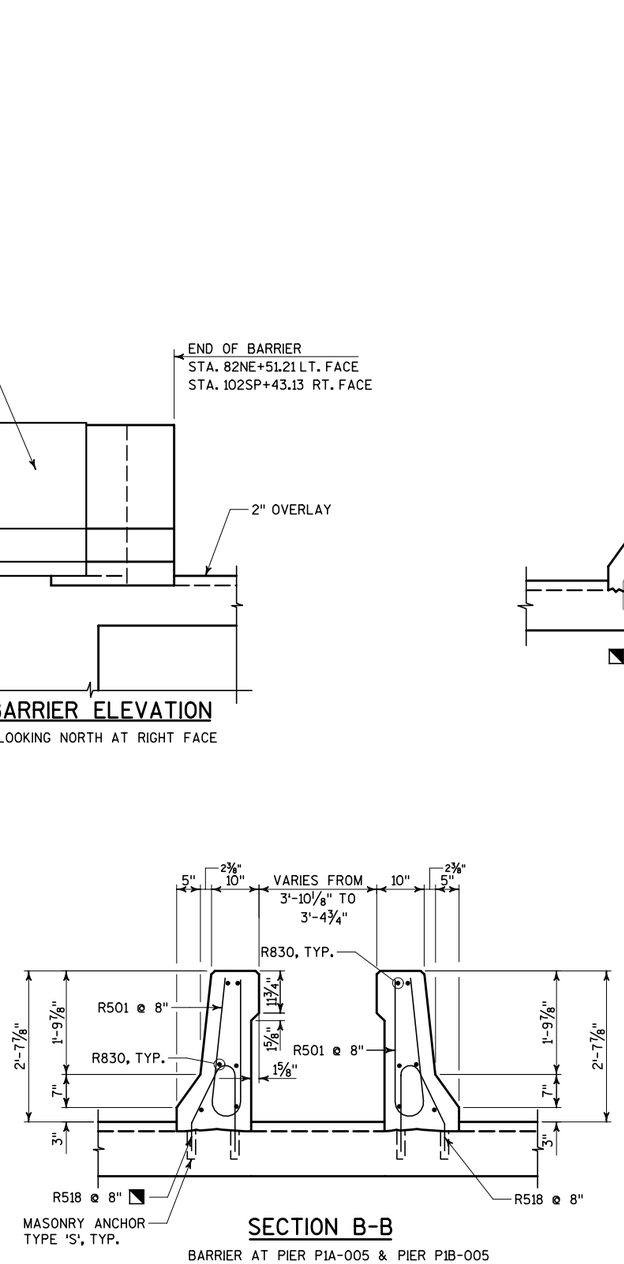
BARRIER PARTIAL PLAN

BARRIER AT PIER P1A-005 & PIER P1B-005



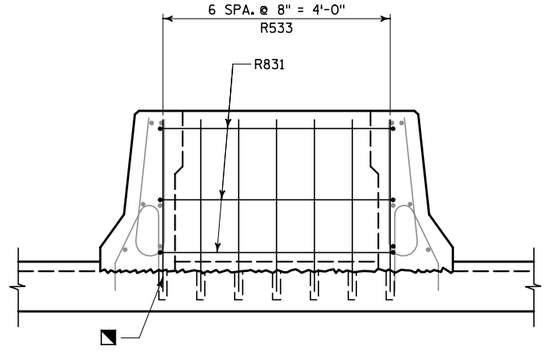
BARRIER ELEVATION

LOOKING NORTH AT RIGHT FACE



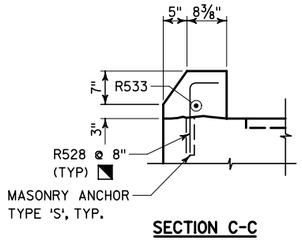
SECTION B-B

BARRIER AT PIER P1A-005 & PIER P1B-005
(DIMENSIONS & REINFORCEMENT SHOWN)



SECTION A-A

(REINFORCEMENT SHOWN)



SECTION C-C

LEGEND

- CONC. MASONRY ANCHOR, TYPE 'S', NO. 5 BAR (⅝") MIN. EMBEDMENT INTO DECK = 5"
- ☆ 3" DEEP X 1'-0" WIDE BLOCKOUT @ PARAPET BASE. ADJUST REINFORCEMENT TO AVOID BLOCKOUT.

NOTES

1. SEE SHEETS 3 & 4 FOR GENERAL NOTES.
2. UNLESS INSTALLATION IS EXPLICITLY COVERED BY A SEPARATE PAY ITEM, INSTALLATION OF ALL EMBEDMENTS IS CONSIDERED INCIDENTAL TO PAY ITEM SPV.0090.2040 - PARAPET BRIDGE FREEWAY STRUCTURES.

   SUPPLY OF EMBEDMENTS IS INCLUDED UNDER OTHER PAY ITEMS - SEE QUANTITIES SHEETS.

   SUPPLY OF EXPANSION FITTINGS FOR CONDUIT IS CONSIDERED INCIDENTAL TO THE PAY ITEM FOR THE CONDUIT BEING CONNECTED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PARAPET DETAILS

SHEET 316 OF 396

3184

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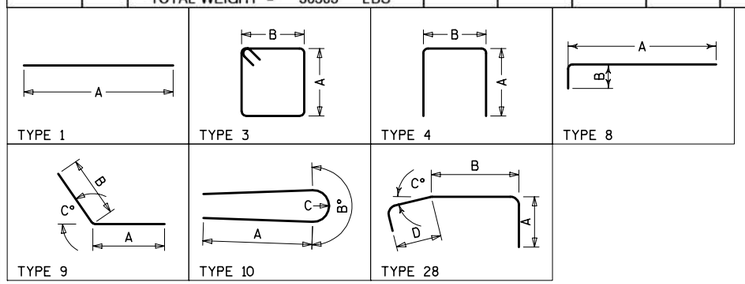
FILE NAME: R:\C\bridges\1312\cds\1312-05C071D.dgn PEN TABLE: \\mtp\FindlDgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:42 Plotted by: emccrigh

STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS										
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J	LOCATION	REMARKS
PARAPET																
R501	E	1332	5'-2"	7178	10	2'-2"	186°	3"							LF PARAPET HAIRPINS	
R502	E	1321	6'-10"	9415	10	3'-0"	184°	3"							HF PARAPET HAIRPINS	
R518	E	16	5'-5"	90	11	1'-9"	159°	2"	2'-0"	1'-0"	200°				PARAPET VERTICAL	DECK DOWEL
R521	E	14	24'-10"	363	1	24'-10"									PARAPET HORIZONTAL	
R522	E	68	2'-7"	183	1	2'-7"									PARAPET VERTICAL	
R523	E	68	3'-5"	242	1	3'-5"									PARAPET VERTICAL	
R824	E	208	60'-0"	33322	1	60'-0"									PARAPET HORIZONTAL	
R825	E	8	47'-9"	1020	1	47'-9"									PARAPET HORIZONTAL	
R826	E	2	35'-0"	187	9	20'-6"	14'-7"	3°							PARAPET HORIZONTAL	
R827	E	6	48'-8"	780	1	48'-8"									PARAPET HORIZONTAL	
R528	E	63	6'-0"	397	10	VARIES	185°	3"							PARAPET HAIRPINS	DIM'N. 'A' VARIES FROM 2'-2" TO 3'-0"
R829	E	2	50'-4"	269	9	29'-10"	20'-6"	3°							PARAPET HORIZONTAL	
R830	E	12	4'-6"	144	1	4'-6"									PARAPET HORIZONTAL	
R831	E	3	6'-7"	53	4	1'-4"	4'-4"								PARAPET HORIZONTAL	
R532	E	1	3'-4"	3	1	3'-4"									PARAPET HORIZONTAL	
R533	E	7	2'-10"	21	1	2'-10"									PARAPET VERTICAL	DECK DOWEL
LF PARAPET LIGHT POLE BASE																
R503	E	40	7'-1"	296	4	2'-6"	2'-3"								LIGHT POLE BASE VERTICAL TIES	
R504	E	24	6'-3"	156	4	2'-2"	2'-1"								LIGHT POLE BASE HORIZONTAL TIES	
R505	E	20	2'-5"	50	9	1'-3"	1'-3"	90°							LIGHT POLE BASE END FACE	
R506	E	24	7'-3"	181	4	2'-8"	2'-1"								LIGHT POLE BASE HORIZONTAL TIES	
HF PARAPET LIGHT POLE BASE																
R504	E	14	6'-3"	91	4	2'-2"	2'-1"								LIGHT POLE BASE HORIZONTAL TIES	
R505	E	10	2'-5"	25	9	1'-3"	1'-3"	90°							LIGHT POLE BASE END FACE	
R506	E	14	7'-3"	106	4	2'-8"	2'-1"								LIGHT POLE BASE HORIZONTAL TIES	
R507	E	20	8'-1"	169	4	3'-0"	2'-3"								LIGHT POLE BASE VERTICAL TIES	
R508	E	2	10'-0"	21	3	2'-3"	2'-3"								LIGHT POLE BASE STIRRUPS	
R409	E	16	3'-7"	38	4	1'-0"	1'-8"								LIGHT POLE BASE SIDE FACE	DIM'N. 'B' VARIES FROM 1'-5" TO 1'-11" IN 3 STEPS OF 2" (2 SETS OF 4 BARS REQ'D)
R510	E	8	2'-9"	23	1	2'-9"									LIGHT POLE BASE SIDE FACE	
LF PARAPET SIGN BRIDGE BASE																
R611	E	18	8'-9"	237	4	2'-6"	3'-11"								SIGN BRIDGE BASE VERTICAL TIES	
R612	E	12	11'-7"	209	4	4'-0"	3'-9"								SIGN BRIDGE BASE HORIZONTAL TIES	
R613	E	10	6'-5"	96	28	1'-4"	4'-4"	76°	10"						SIGN BRIDGE BASE TOP BARS	
R414	E	20	5'-6"	73	4	1'-4"	2'-11"								SIGN BRIDGE PEDESTALS	
R516	E	1	13'-6"	14	3	2'-4"	3'-11"								SIGN BRIDGE BASE STIRRUPS	
R519	E	4	4'-6"	19	1	4'-6"									SIGN BRIDGE BASE SIDE FACE	
R440	E	8	4'-0" *	21	4	1'-4"	1'-5" *								SIGN BRIDGE BASE SIDE FACE	DIM'N. 'B' VARIES FROM 1'-0 1/4" TO 1'-10" IN 3 STEPS OF 3 1/4" (SETS OF 4 BARS)
HF PARAPET SIGN BRIDGE BASE																
R612	E	16	11'-7"	278	4	4'-0"	3'-9"								SIGN BRIDGE BASE HORIZONTAL TIES	
R613	E	10	6'-5"	96	28	1'-4"	4'-4"	76°	10"						SIGN BRIDGE BASE TOP BARS	
R414	E	20	5'-6"	73	4	1'-4"	2'-11"								SIGN BRIDGE PEDESTALS	
R615	E	18	10'-1"	273	4	3'-2"	3'-11"								SIGN BRIDGE BASE VERTICAL TIES	
R417	E	8	5'-1" *	27	4	1'-4"	2'-6" *								SIGN BRIDGE BASE SIDE FACE	DIM'N. 'B' VARIES FROM 2'-0 3/4" TO 2'-10 1/2" IN 3 STEPS OF 3 1/4" (SETS OF 4 BARS)
R519	E	6	4'-6"	28	1	4'-6"									SIGN BRIDGE BASE SIDE FACE	
R520	E	1	12'-10"	13	3	2'-0"	3'-11"								SIGN BRIDGE BASE STIRRUPS	
R441	E	8	4'-3"	23	4	1'-4"	1'-8" *								SIGN BRIDGE BASE SIDE FACE	DIM'N. 'B' VARIES FROM 1'-2 1/4" TO 2'-0" IN 3 STEPS OF 3 1/4" (SETS OF 4 BARS)
		TOTAL WEIGHT =	56305	LBS												



NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 & 4 FOR ADDITIONAL INFORMATION
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. * DENOTES AVERAGE DIMENSIONS FOR BAR SERIES. SEE THE 'REMARKS' COLUMN FOR COMPLETE SERIES INFORMATION.
7. ALL REINFORCEMENT IN THIS TABLE IS INCLUDED UNDER PAY ITEMS SPV.0090.2040 AND SPV.0090.2045 - PARAPET BRIDGE TYPE LF AND HF.

   NO SEPARATE PAYMENT WILL BE MADE - QUANTITIES ARE PROVIDED FOR INFORMATION ONLY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (005)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PARAPET REINFORCEMENT SCHEDULE

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STATE PROJECT NUMBER
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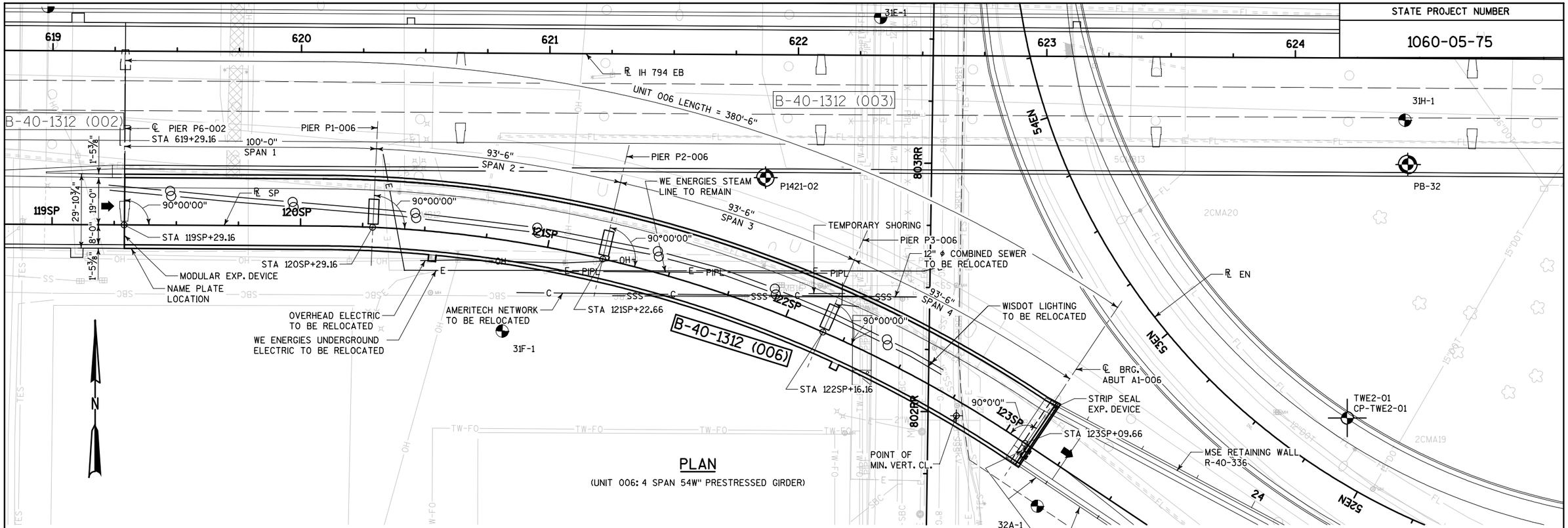


PLAN

(UNIT 006: 4 SPAN 54W" PRESTRESSED GIRDER)

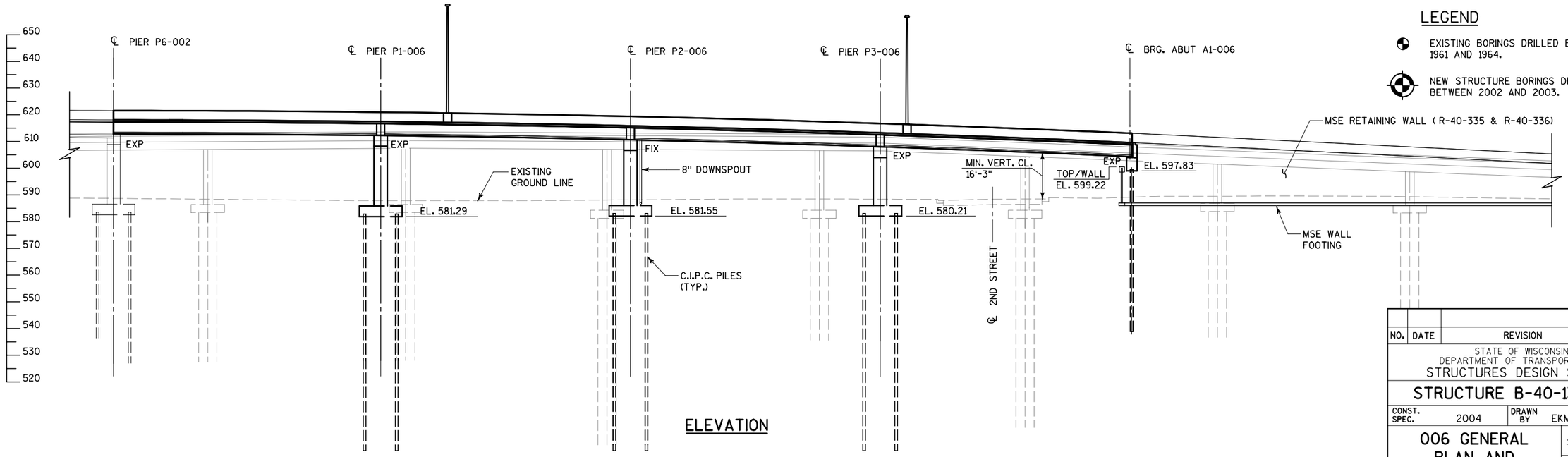
NOTES

1. LAYOUT ANGLES SHOWN ARE MEASURED FROM A LINE TANGENT TO ℄ AT ℄ PIER.

LEGEND

EXISTING BORINGS DRILLED BETWEEN 1961 AND 1964.

NEW STRUCTURE BORINGS DRILLED BETWEEN 2002 AND 2003.



ELEVATION

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

006 GENERAL PLAN AND ELEVATION 1

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8

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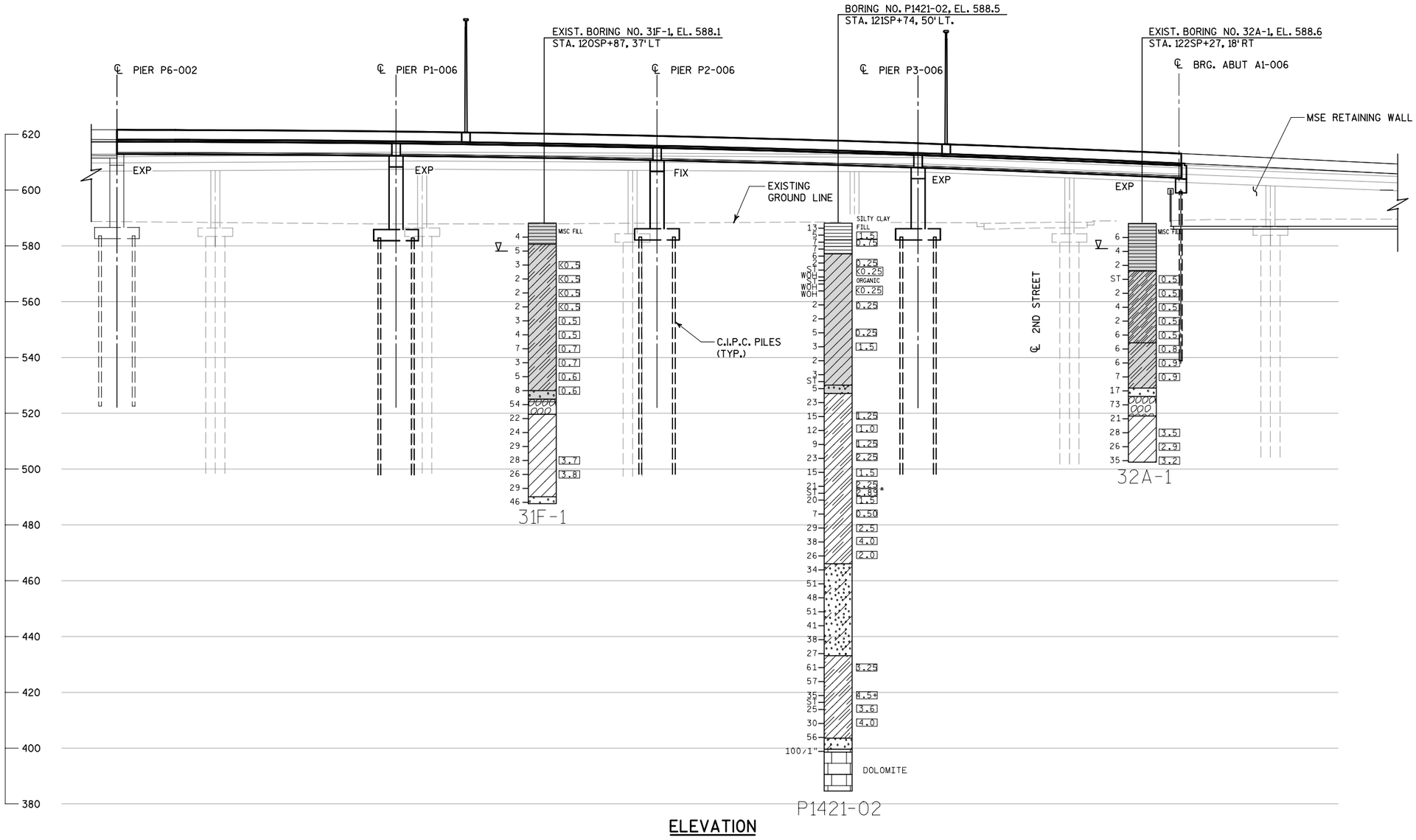
LEGEND

* LOCATION OF LABORATORY UNCONFINED COMPRESSIVE STRENGTH TEST.

NOTES

1. SEE "GENERAL PLAN AND ELEVATION" SHEET FOR BOREHOLE LOCATIONS.
2. SUBSURFACE INFORMATION PRESENTED HEREIN IS AN ABBREVIATED VERSION OF THE INFORMATION PRESENTED IN THE GEOTECHNICAL ENGINEERING REPORTS. REVIEW THE APPROPRIATE GEOTECHNICAL ENGINEERING REPORTS AND SOIL BORING LOGS FOR ADDITIONAL SUBSURFACE INFORMATION.
3. WATER LEVELS INDICATED MAY NOT BE REPRESENTATIVE OF STATIC WATER LEVELS.
4. ADDITIONAL SUBSURFACE AND GROUNDWATER INFORMATION IS AVAILABLE FROM DEPARTMENT.



ELEVATION

STATE PROJECT NUMBER

1060-05-75

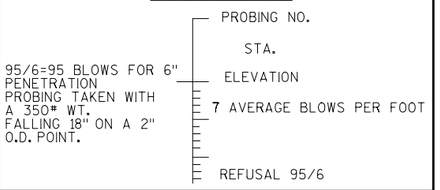
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

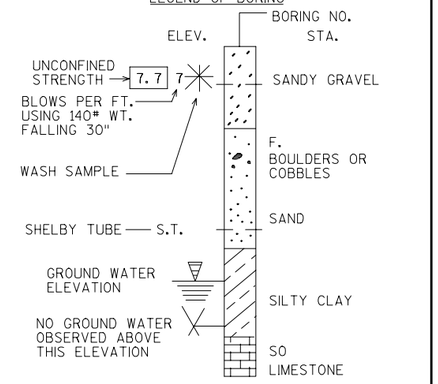
MATERIAL SYMBOLS

TOPSOIL/ FILL, SILT, SANDSTONE, SAND, PEAT, LIMESTONE, GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

CONST. SPEC.	2004	DRAWN BY	DJS	PLANS CK'D.	KES

SUBSURFACE EXPLORATION UNIT 006

SHEET 319 OF 396

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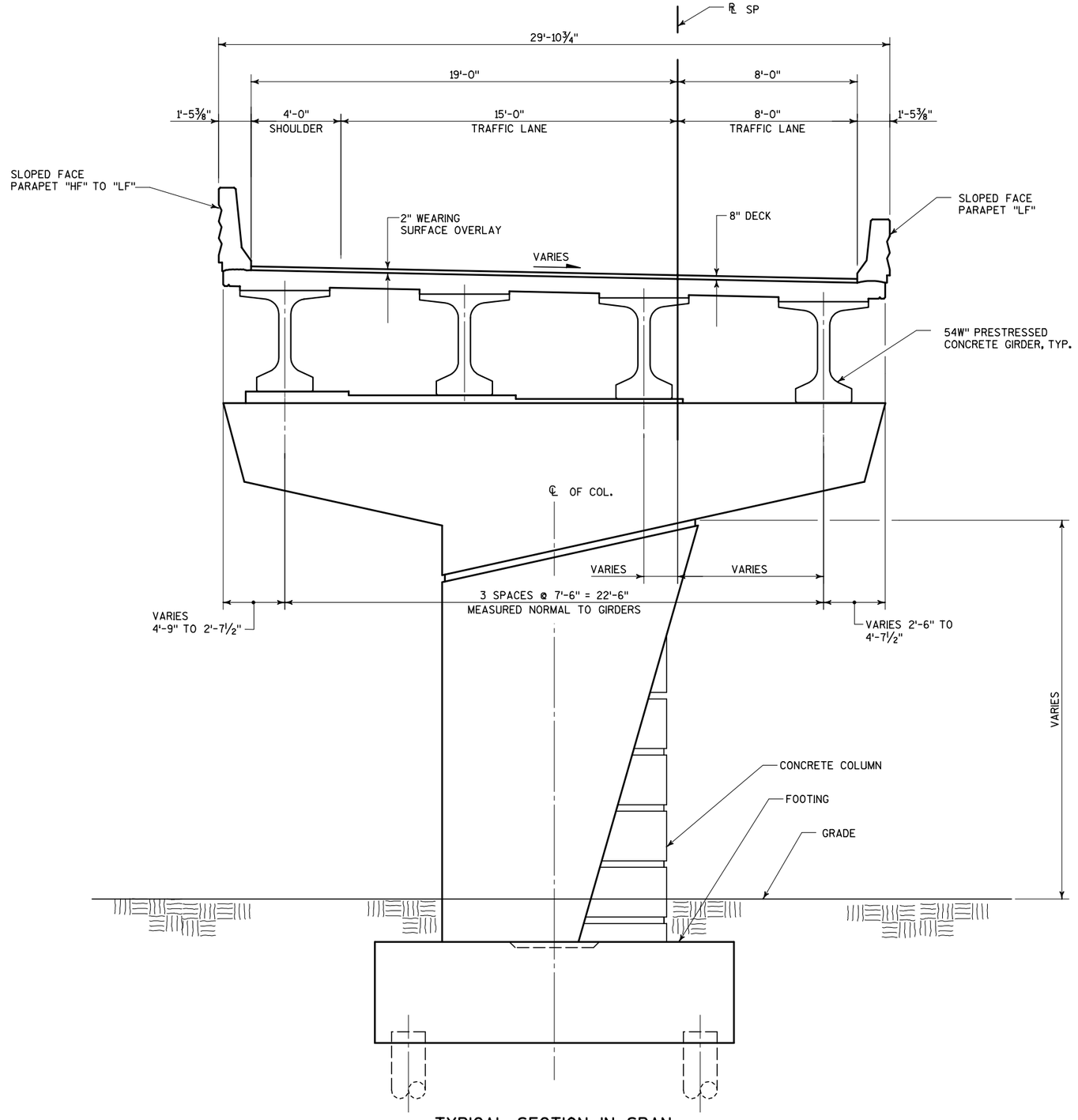
STATE PROJECT NUMBER
1060-05-75



TYPICAL SECTION IN SPAN

(LOOKING EAST)

NOTES

1. DIMENSIONS ARE MEASURED ALONG A LINE RADIAL TO THE ℄ UNLESS OTHERWISE NOTED.
2. FOR UTILITY INFORMATION, REFER TO DECK CROSS SECTIONS CONTAINED LATER IN THIS SET.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

TYPICAL SECTION

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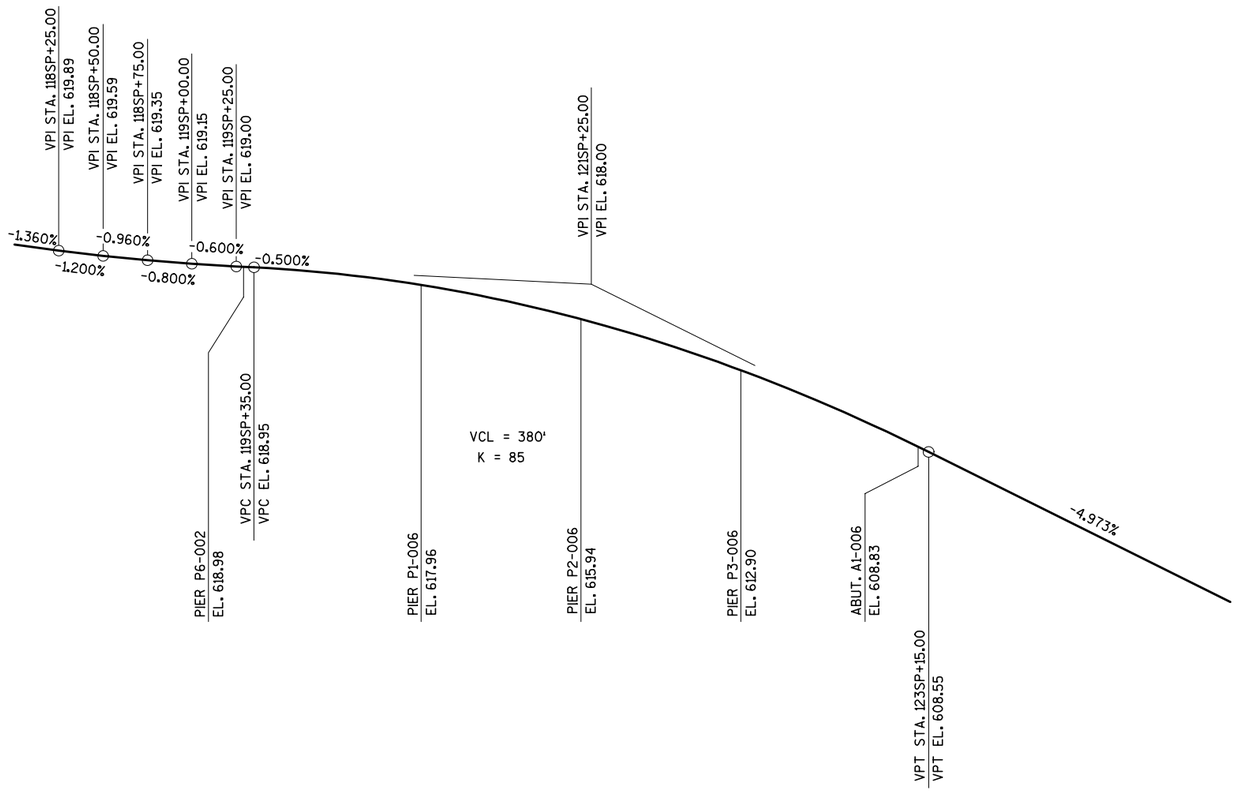
STATE PROJECT NUMBER
1060-05-75



PROFILE GRADE LINE - ℄ SP

SUBSTRUCTURE DATA

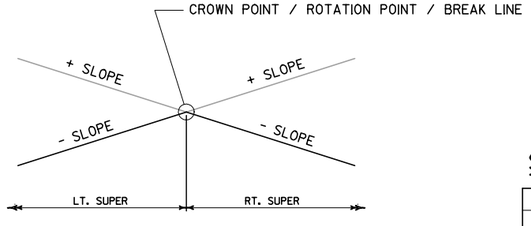
UNIT	STATION	SKEW
P6-002	STA 119+29.16	0° 0' 0"
P1-006	STA 120+29.16	0° 0' 0"
P2-006	STA 121+22.66	0° 0' 0"
P3-006	STA 122+16.16	0° 0' 0"
A1-006	STA 123+09.66	0° 0' 0"

HORIZONTAL CURVE DATA

℄ SP

PT = STA 113SP+46.49
PC = STA 120SP+09.06
L = 662.57

PI = STA 121SP+62.24
Δ = 33°28'41"
D = 11°15'00"
T = 153.17
L = 297.58
R = 509.30
E = 22.54
PC = STA 120SP+09.06
PT = STA 123SP+06.65



SUPERELEVATION DETAIL

SEE DECK SECTIONS FOR LOC'N OF CROWN POINT

SUPERELEVATION TABLE

		SUPERELEVATION	
	STATION	LT. SUPER (%)	RT. SUPER (%)
℄ SP	119SP+29.16	2.00	-2.00
	120+50.00	6.00	-6.00
	122+50.00	6.00	-6.00
	125+00.00	-6.00	6.00

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

ALIGNMENT

SHEET 321 OF 396
3189

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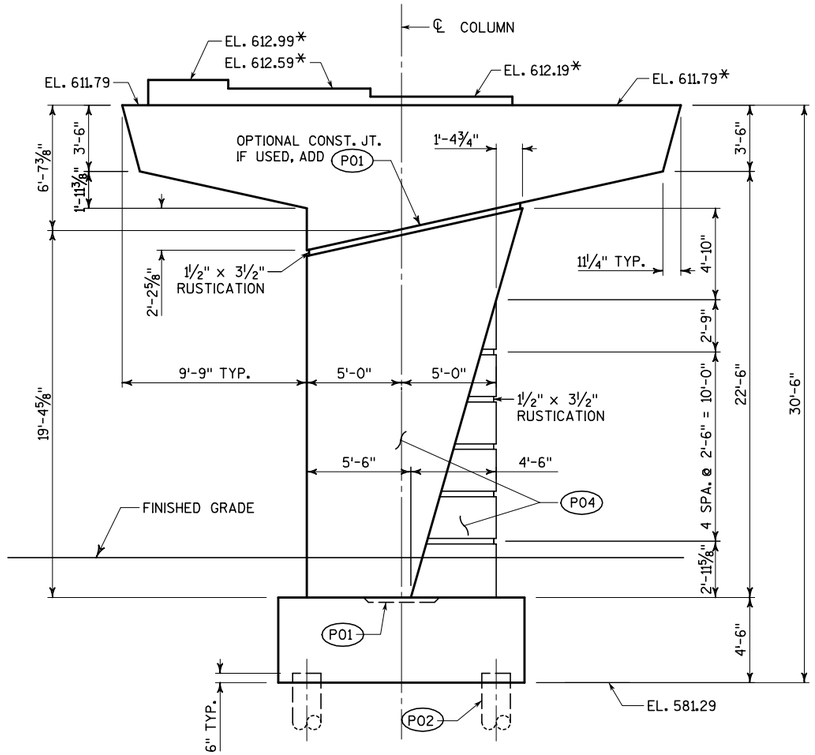
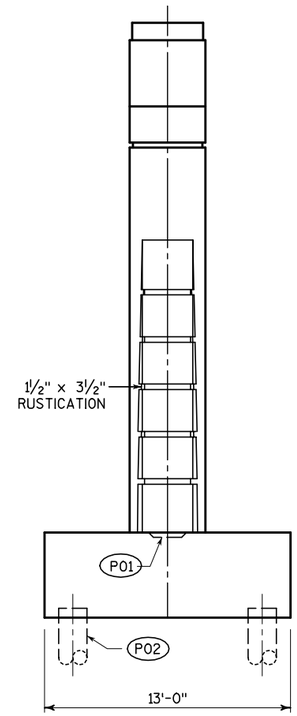
STATE PROJECT NUMBER

1060-05-75

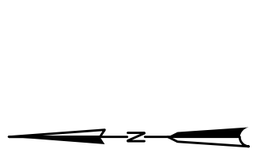


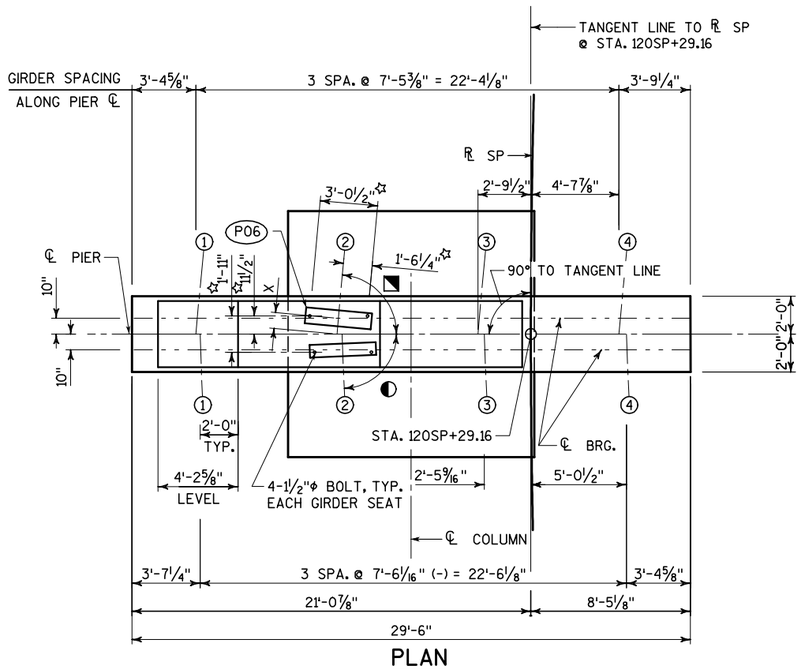
ELEVATION

(LOOKING EAST-SHOWING DIMENSIONS)



END ELEVATION





PLAN

BEARING ANGLE

LOCATION		ANGLE	DIM. X
◥	GIRDER 1	84°46'14.6"	10 1/16"
	GIRDER 2	84°46'14.6"	10 1/16"
	GIRDER 3	84°46'14.6"	10 1/16"
	GIRDER 4	84°46'14.6"	10 1/16"
◐	GIRDER 1	87°44'20.6"	10 1/16"
	GIRDER 2	87°44'20.6"	10 1/16"
	GIRDER 3	87°44'20.6"	10 1/8"
	GIRDER 4	87°44'20.6"	10 1/8"

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 230 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 130'.

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 384.

(P06) 1½" X 8" X 3'-6" MASONRY PLATE, SEE "PRESTRESSED GIRDER BEARINGS" SHEET FOR DETAILS.

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

☆ DIMENSIONS ARE GIVEN TO THE ℄ OF ANCHOR.

DIM. X IS GIVEN FROM THE ℄PIER TO THE ℄ BRG. ALONG THE ℄ GIRDER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

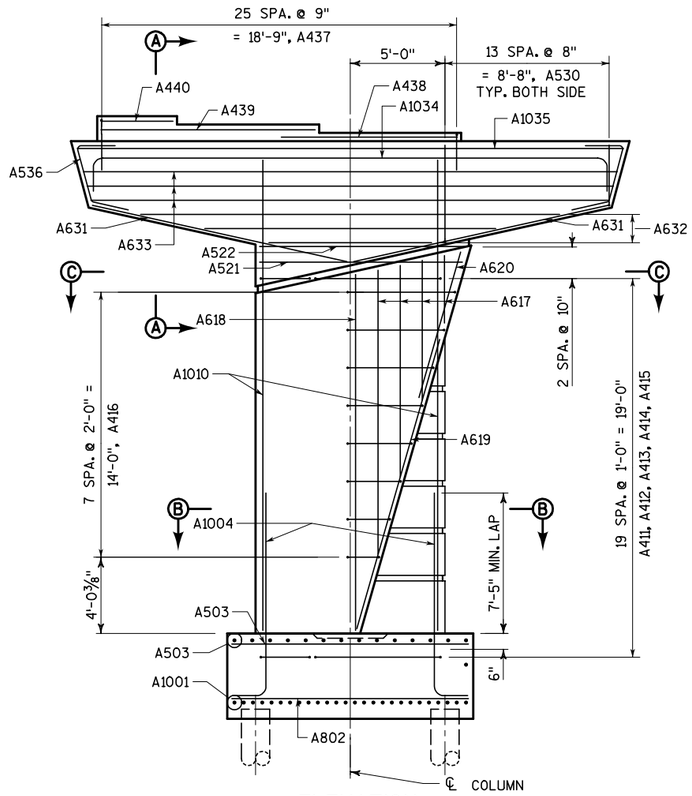
PIER P1-006

SHEET 322 OF 396

3190

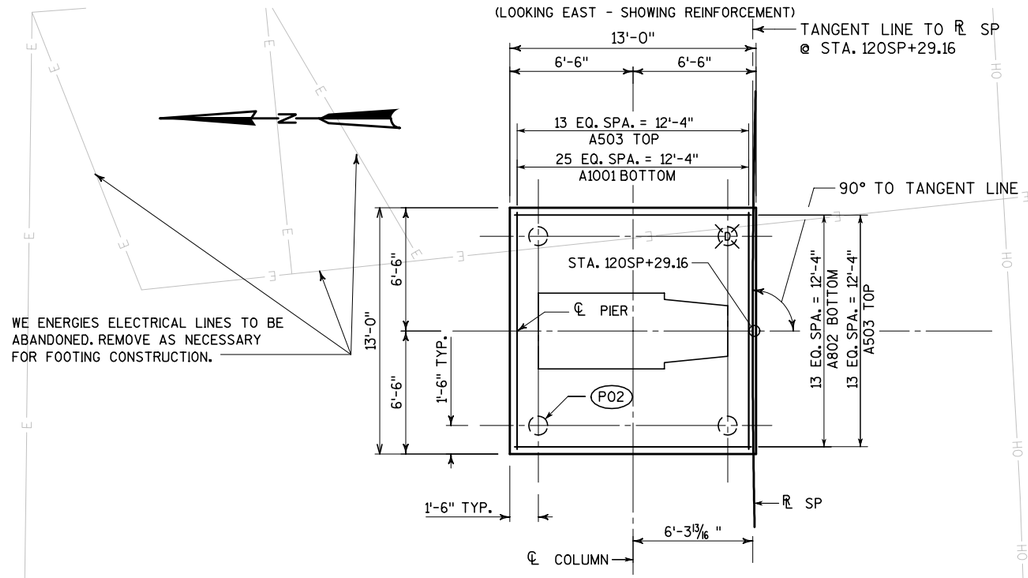
8

STATE PROJECT NUMBER
1060-05-75



ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)



FOOTING PLAN

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 230 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 130'. PREBORE ALL PILING 20'.

(D) DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P1-006 REINF. LAYOUT

SHEET 323 OF 396

3191

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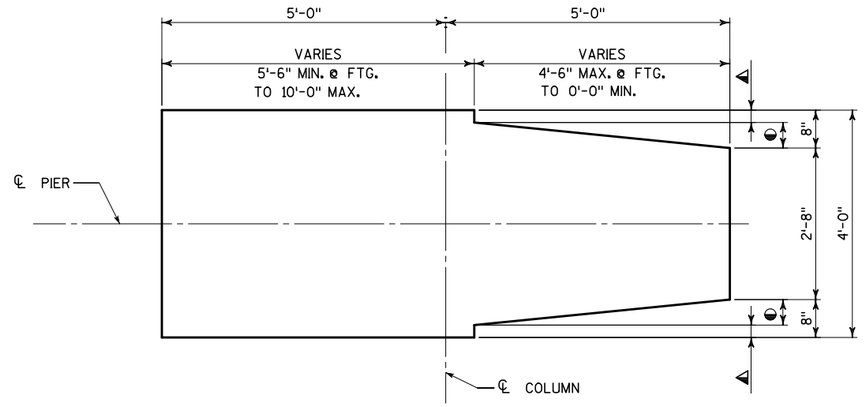
STATE PROJECT NUMBER

1060-05-75

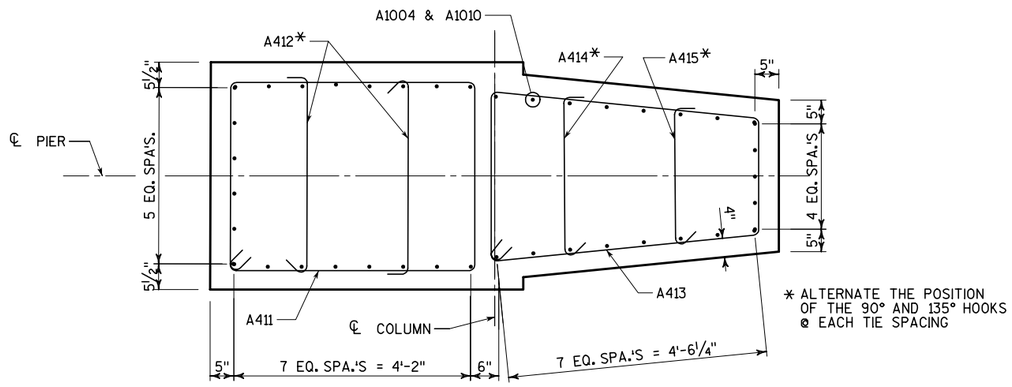


SECTION THRU COLUMN

(SHOWING DIMENSIONS)

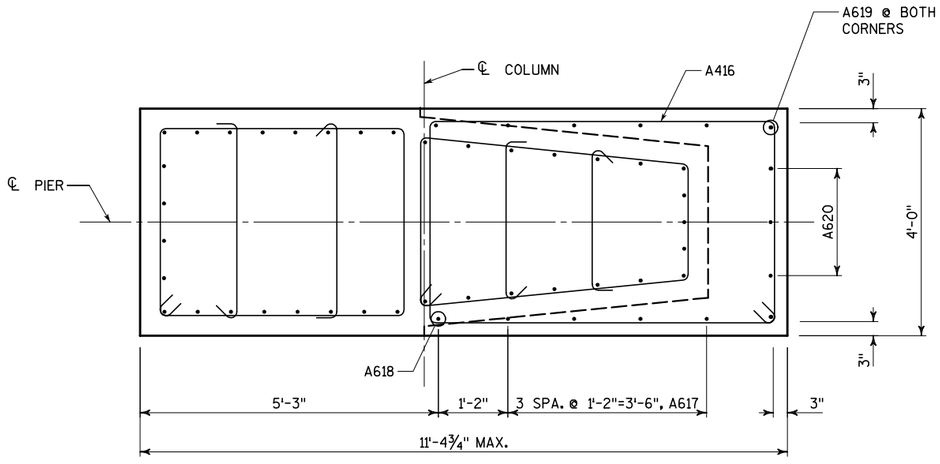
◑ VARIES 5⅜" MAX. @ FTG. TO 0" MIN.

◭ VARIES 2⅝" MIN. @ FTG. TO 8" MAX.

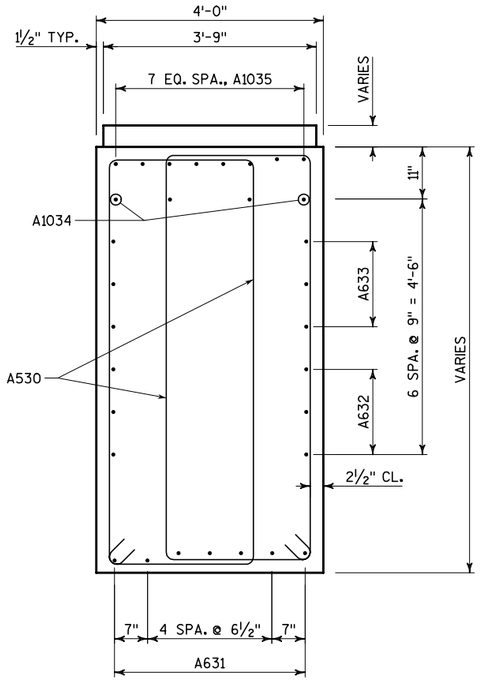


SECTION B-B

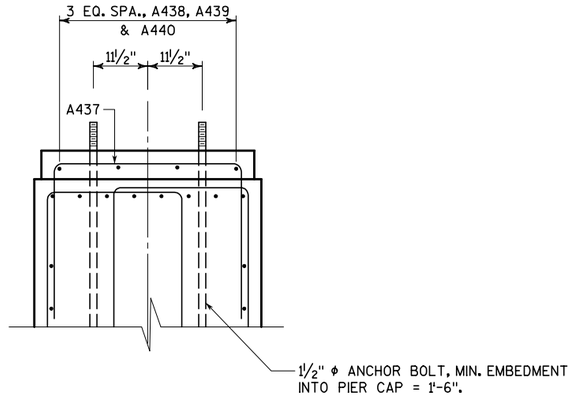
(SHOWING REINFORCEMENT)



SECTION C-C



SECTION A-A



SECTION THRU GIRDER SEAT

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P1-006 DETAILS

SHEET 324 OF 396

3192

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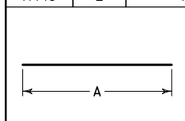
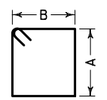
STATE PROJECT NUMBER
1060-05-75

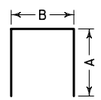
BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
A1001		26	12'-6"	1399	1	12'-6"									FOOTING	BOTTOM
A802		14	12'-6"	467	1	12'-6"									FOOTING	BOTTOM
A503		28	12'-6"	365	1	12'-6"									FOOTING	TOP
A1004	E	39	12'-7"	2112	8	11'-1"									FOOTING	DOWEL
A1010	E	39	24'-10"	4168	1	24'-10"									COLUMN	VERTICAL
A411	E	20	15'-10"	212	3	4'-4"	3'-4"								COLUMN	TIES
A412	E	40	4'-0"	107	13	3'-4"									COLUMN	TIES
A413	E	20	15'-1"	202	14	3'-0"	4'-9"	6"							COLUMN	TIES
A414	E	20	3'-5"	46	13	2'-9"									COLUMN	TIES
A415	E	20	3'-0"	40	13	2'-4½"									COLUMN	TIES
A416	E	8	19'-11"	106	3	6'-1½"	3'-7"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
A617	E	2 series of 4	15'-0" to 3'-7"	111	1	15'-0" to 3'-7" by 3'-9⅝"									COLUMN	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
A618	E	2	18'-10"	57	1	18'-10"									COLUMN	
A619	E	2	15'-11"	48	1	15'-11"									COLUMN	VERTICAL
A620	E	3	8'-0"	36	1	8'-0"									COLUMN	VERTICAL
A521	E	1	29'-2"	30	3	10'-8½"	3'-7"								COLUMN	TIE, TOP OF COLUMN
A522	E	1	29'-6"	31	3	10'-10½"	3'-7"								COLUMN	TIE, TOP OF COLUMN
A530	E	4 series of 14	12'-0" to 15'-10"	812	3	3'-1½" to 5'-0½" by 1¾"	2'-7"								CAP	STIRRUPS
A631	E	14	13'-9"	289	1	13'-9"									CAP	BOTTOM @ ENDS
A632	E	2 series of 3	22'-2" to 8'-7"	138	1	22'-2" to 8'-7" by 6'-9½"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
A633	E	2 series of 3	28'-2" to 27'-5"	250	1	28'-2" to 27'-5" by 4½"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
A1034	E	4	30'-2"	519	4	1'-9½"	27'-3"								CAP	TOP
A1035	E	8	28'-10"	993	1	28'-10"									CAP	TOP
A536	E	10	7'-0"	73	17	2'-0"	3'-2"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
A437	E	26	8'-7"	149	4	2'-9"	3'-4"								CAP	VERTICAL GIRDER SEATS
A438	E	4	9'-4"	25	1	9'-4"									CAP	HORIZ. GIRDER SEATS
A439	E	4	11'-4"	30	1	11'-4"									CAP	HORIZ. GIRDER SEATS
A440	E	4	3'-10"	10	1	3'-10"									CAP	HORIZ. GIRDER SEATS



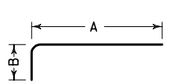
TYPE 1



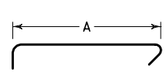
TYPE 3



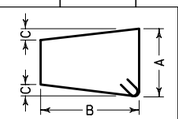
TYPE 4



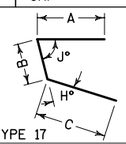
TYPE 8



TYPE 13



TYPE 14



TYPE 17

TOTAL NON-EPOXY REINFORCEMENT	WT (LB)	2231
TOTAL EPOXY REINFORCEMENT	WT (LB)	10594

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 & 4 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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STRUCTURES DESIGN SECTION

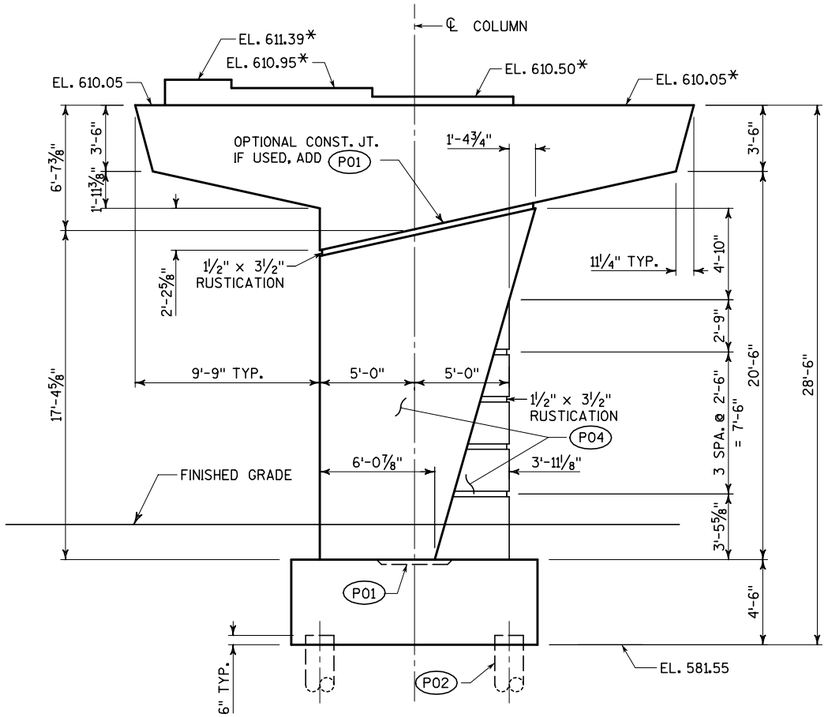
STRUCTURE B-40-1312 (006)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P1-006
REINF. SCHEDULE

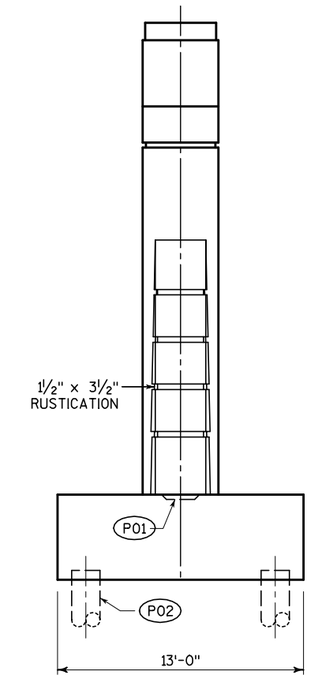
SHEET 325 OF 396
3193

STATE PROJECT NUMBER
1060-05-75

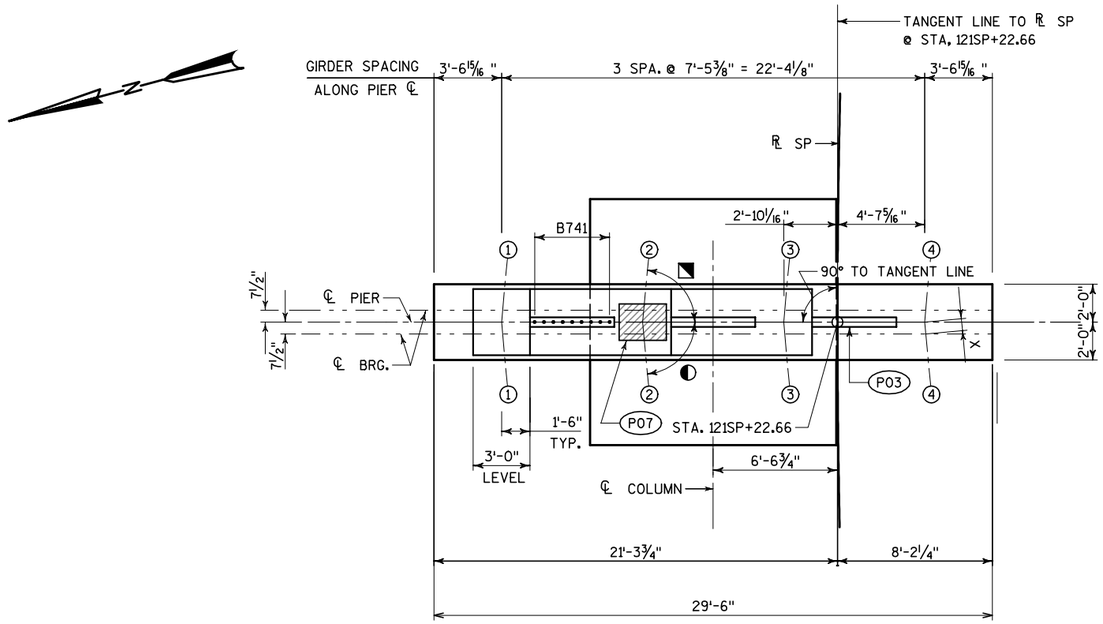


ELEVATION

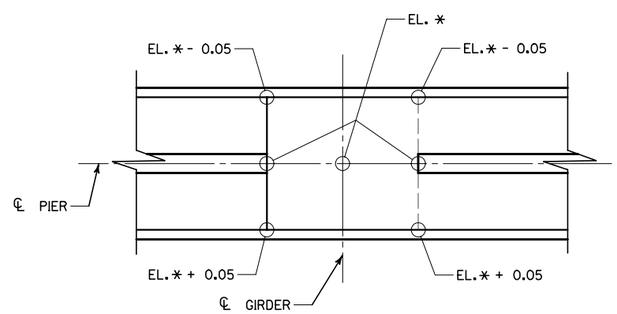
(LOOKING EAST-SHOWING DIMENSIONS)



END ELEVATION



PLAN



SLOPING BEAM SEAT DETAIL

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 235 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 130'.

(P03) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 2" X 6".

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 384.

(P07) ½" THICK ELASTOMERIC BEARING PAD, SEE SHEET 360 FOR DETAILS.

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

BEARING ANGLE

LOCATION		ANGLE	DIM X
◥	GIRDER 1	84°44'23.4"	7 9/16"
	GIRDER 2	84°44'23.4"	7 9/16"
	GIRDER 3	84°44'23.4"	7 9/16"
	GIRDER 4	84°44'23.4"	7 9/16"
◐	GIRDER 1	84°42'40.5"	7 9/16"
	GIRDER 2	84°42'40.5"	7 9/16"
	GIRDER 3	84°42'40.5"	7 9/16"
	GIRDER 4	84°42'40.5"	7 9/16"

DIM X IS GIVEN FROM THE ℄ PIER TO THE ℄ BRG. ALONG THE GIRDER ℄

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
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STRUCTURE B-40-1312 (006)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P2-006

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8

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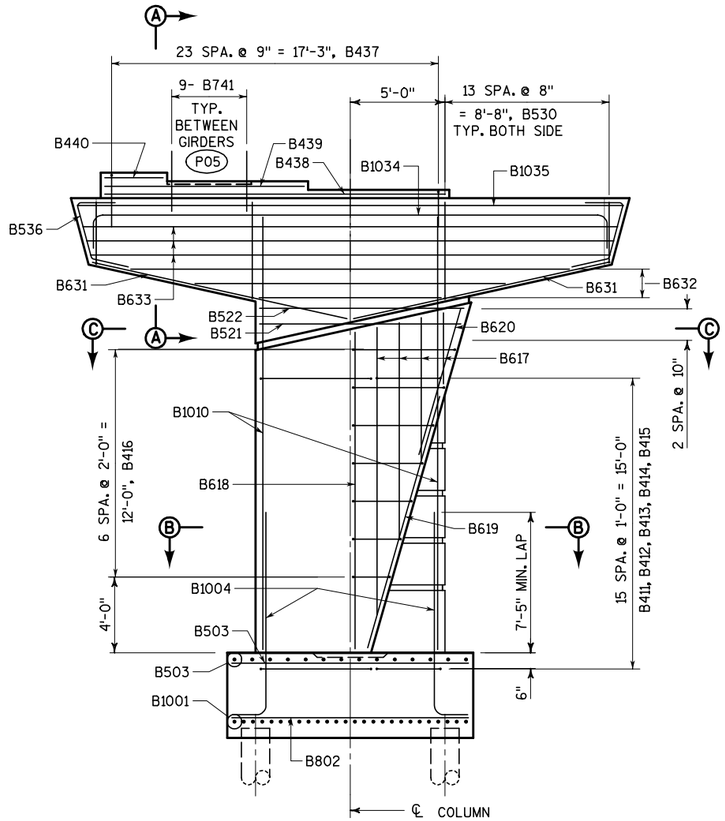
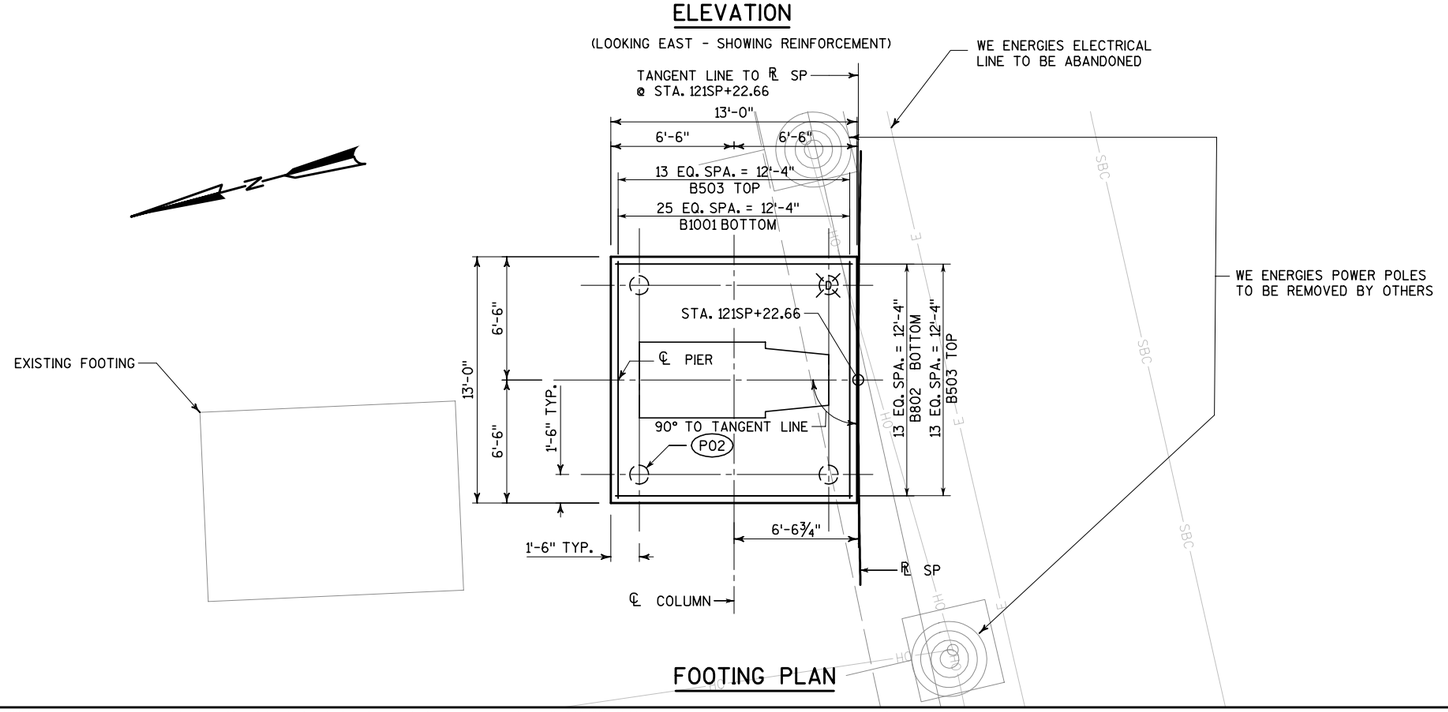
STATE PROJECT NUMBER
1060-05-75



ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)



FOOTING PLAN

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 235 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 130'. PREBORE ALL PILING 20'.

(P05) B742 BARS AT 6 EQ. SPA. BETWEEN BEAM SEATS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. EMBED 1'-7".

D DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P2-006 REINF. LAYOUT

SHEET 327 OF 396

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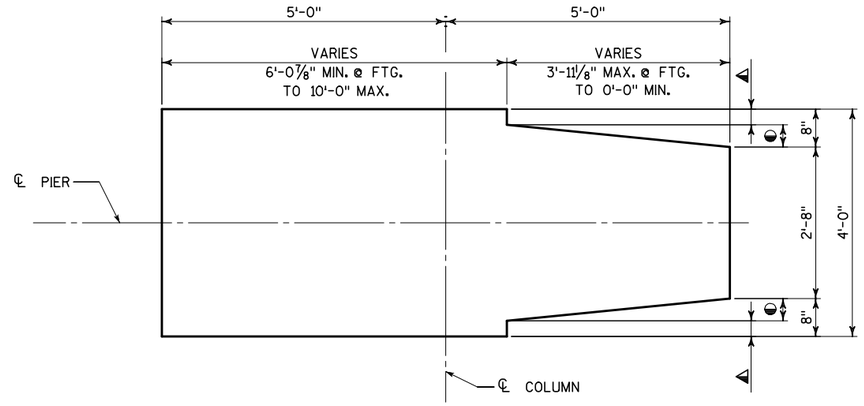
STATE PROJECT NUMBER

1060-05-75

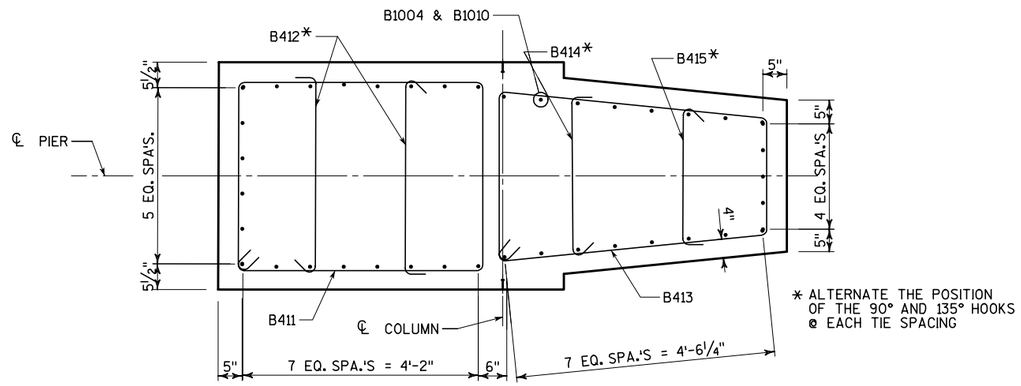


SECTION THRU COLUMN

(SHOWING DIMENSIONS)

◑ VARIES 4 5/8" MAX. @ FTG. TO 0" MIN.

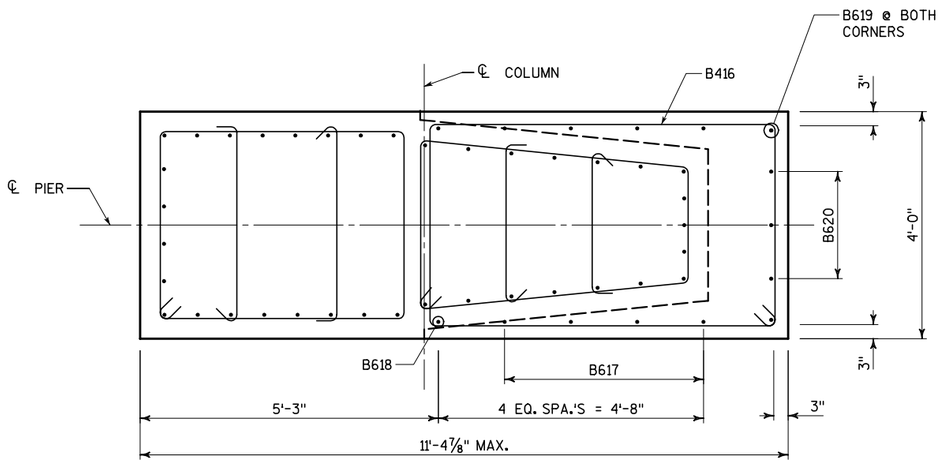
◭ VARIES 3 3/8" MIN. @ FTG. TO 8" MAX.



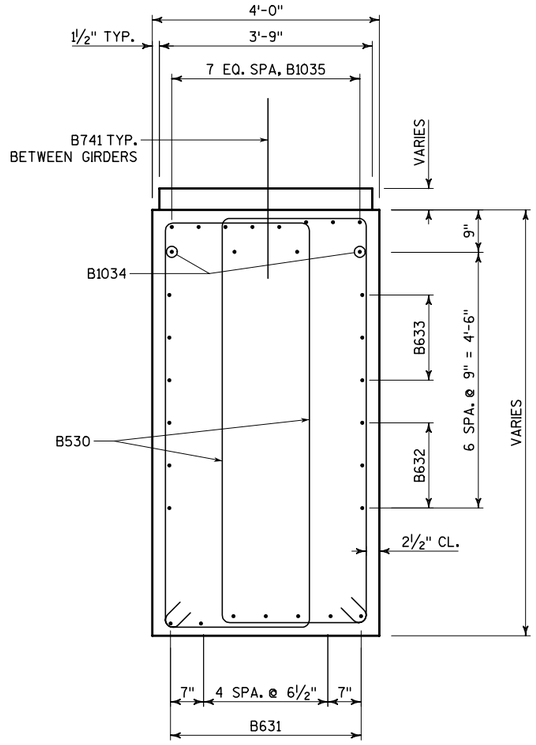
* ALTERNATE THE POSITION OF THE 90° AND 135° HOOKS @ EACH TIE SPACING

SECTION B-B

(SHOWING REINFORCEMENT)



SECTION C-C



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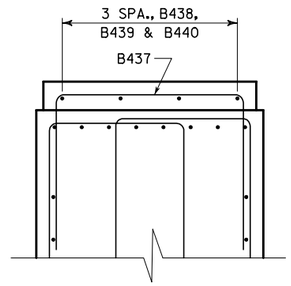

SECTION THRU GIRDER SEAT

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P2-006 DETAILS

SHEET 328 OF 396

3196

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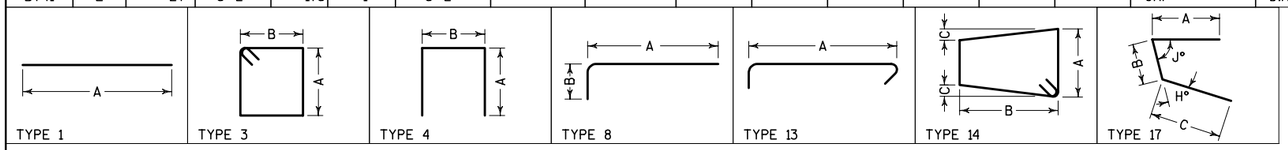
STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
B1001		26	12'-6"	1399	1	12'-6"									FOOTING	BOTTOM
B802		14	12'-6"	467	1	12'-6"									FOOTING	BOTTOM
B503		28	12'-6"	365	1	12'-6"									FOOTING	TOP
B1004	E	39	12'-7"	2112	8	11'-1"									FOOTING	DOWEL
B1010	E	39	22'-10"	3832	1	22'-10"									COLUMN	VERTICAL
B411	E	16	15'-10"	169	3	4'-4"	3'-4"								COLUMN	TIES
B412	E	32	4'-0"	86	13	3'-4"									COLUMN	TIES
B413	E	16	15'-1"	161	14	3'-0"	4'-9"	6"							COLUMN	TIES
B414	E	16	3'-5"	37	13	2'-9"									COLUMN	TIES
B415	E	16	3'-0"	32	13	2'-4½"									COLUMN	TIES
B416	E	1 series of 7	18'-5" to 11'-6"	70	3	5'-4½" to 1'-11" by 6⅞"	3'-7"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
B617	E	2 series of 4	15'-2" to 3'-9"	114	1	15'-2" to 3'-9" by 3'-9⅝"									COLUMN	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
B618	E	2	16'-8"	50	1	16'-8"									COLUMN	VERTICAL
B619	E	2	13'-10"	42	1	13'-10"									COLUMN	VERTICAL
B620	E	3	8'-0"	36	1	8'-0"									COLUMN	VERTICAL
B521	E	1	29'-1"	30	3	10'-8"	3'-7"								COLUMN	TIE, TOP OF COLUMN
B522	E	1	29'-4"	31	3	10'-9½"	3'-7"								COLUMN	TIE, TOP OF COLUMN
B530	E	4 series of 14	12'-0" to 15'-10"	812	3	3'-1½" to 5'-0½" by 1¾"	2'-7"								CAP	STIRRUPS
B631	E	14	13'-9"	289	1	13'-9"									CAP	BOTTOM @ ENDS
B632	E	2 series of 3	23'-2" to 9'-7"	148	1	23'-2" to 9'-7" by 6'-9½"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
B633	E	2 series of 3	28'-3" to 27'-5"	251	1	28'-3" to 27'-5" by 5"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
B1034	E	4	30'-2"	519	4	1'-9½"	27'-3"								CAP	TOP
B1035	E	8	28'-10"	993	1	28'-10"									CAP	TOP
B536	E	10	7'-0"	73	17	2'-0"	3'-2"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
B437	E	24	8'-7"	138	4	2'-9"	3'-4"								CAP	VERTICAL GIRDER SEATS
B438	E	4	18'-0"	48	1	18'-0"									CAP	HORIZ. GIRDER SEATS
B439	E	4	10'-6"	28	1	10'-6"									CAP	HORIZ. GIRDER SEATS
B440	E	4	3'-1"	8	1	3'-1"									CAP	HORIZ. GIRDER SEATS
B741	E	27	3'-2"	175	1	3'-2"									CAP	DIAPHRAGM DOWEL



TOTAL NON-EPOXY REINFORCEMENT	WT (LB)	2231
TOTAL EPOXY REINFORCEMENT	WT (LB)	10282

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 & 4 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

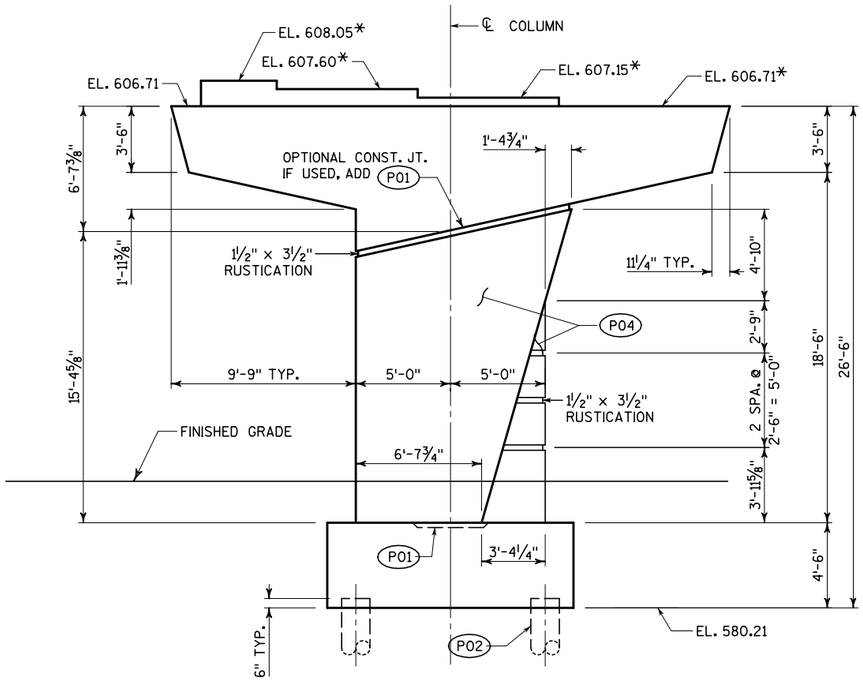
STRUCTURE B-40-1312 (006)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P2-006
REINF. SCHEDULE

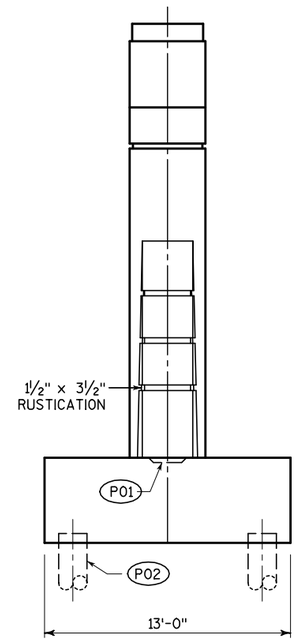
SHEET 329 OF 396
3197

STATE PROJECT NUMBER
1060-05-75

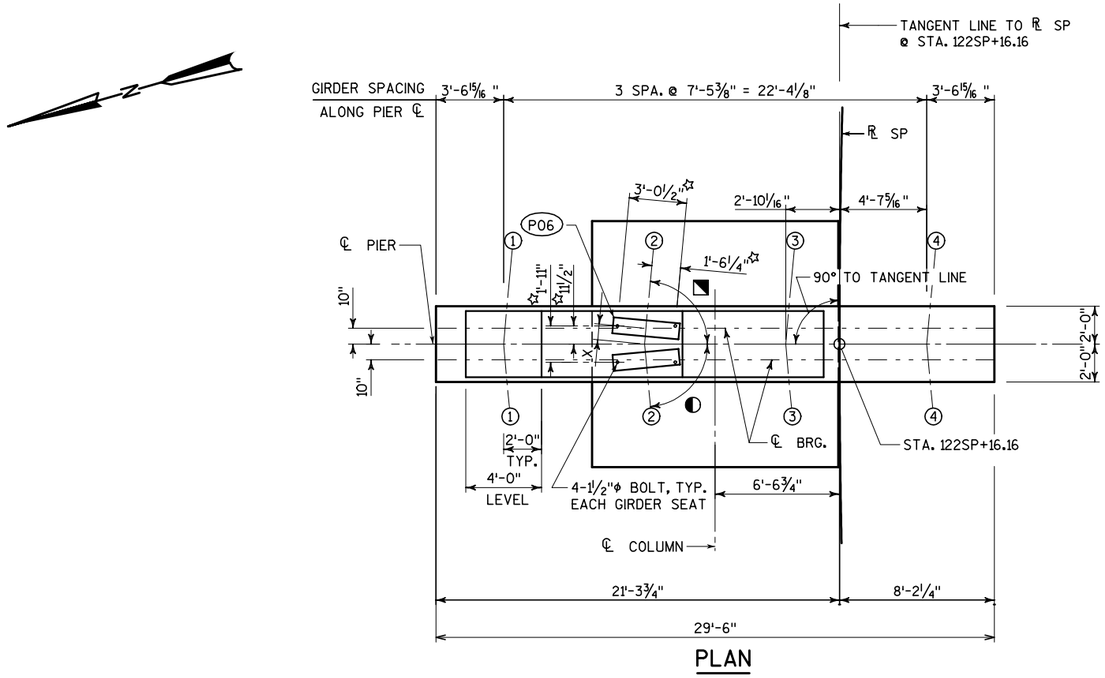


ELEVATION

(LOOKING EAST-SHOWING DIMENSIONS)



END ELEVATION



PLAN

BEARING ANGLE

LOCATION		ANGLE	DIM. X
◥◣	GIRDER 1	84°44'40.0"	10 1/16"
	GIRDER 2	84°44'40.0"	10 1/16"
	GIRDER 3	84°44'40.0"	10 1/16"
	GIRDER 4	84°44'40.0"	10 1/16"
◐	GIRDER 1	87°44'29.2"	10"
	GIRDER 2	87°44'29.2"	10"
	GIRDER 3	87°44'29.2"	10"
	GIRDER 4	87°44'29.2"	10"

NOTES

(P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 3" X 1'-2" X 3'-6", TYPICAL BOTTOM OF ALL COLUMNS. ADD TO TOP OF COLUMNS IF THE COLUMN AND CAP CONCRETE ARE PLACED IN SEPARATE POURS.

(P02) CIP 16" DIAM. PILING AT 235 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 130'.

(P04) FOR CONCRETE STAINING DETAILS, SEE SHEET 384.

(P06) 1½" X 8" X 3'-6" MASONRY PLATE, SEE "PRESTRESSED GIRDER BEARINGS" SHEET FOR DETAILS.

* ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ PIER.

☆ DIMENSIONS ARE GIVEN TO THE ℄ OF ANCHOR BOLTS.

DIM. X IS GIVEN FROM THE ℄PIER TO THE ℄ BRG. ALONG THE ℄ GIRDER.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

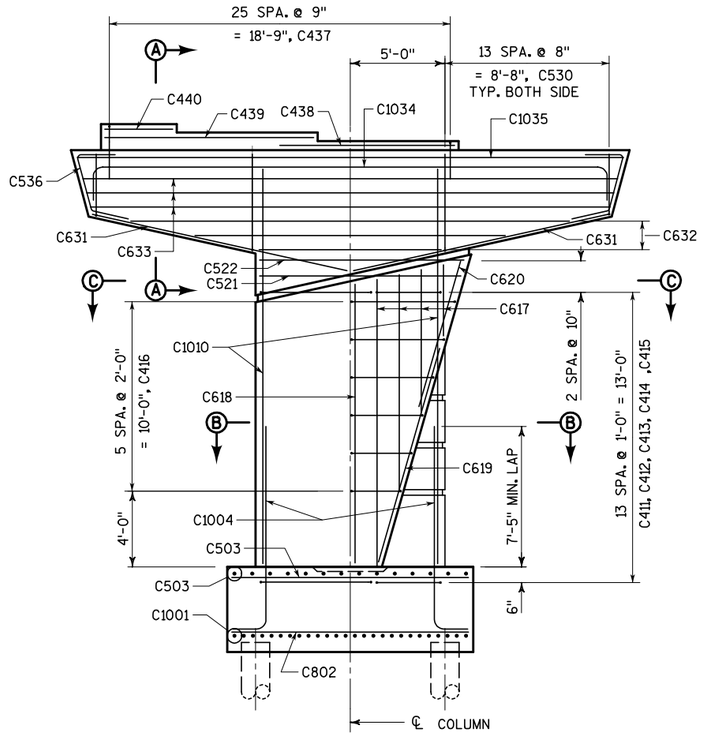
CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P3-006

SHEET 330 OF 396

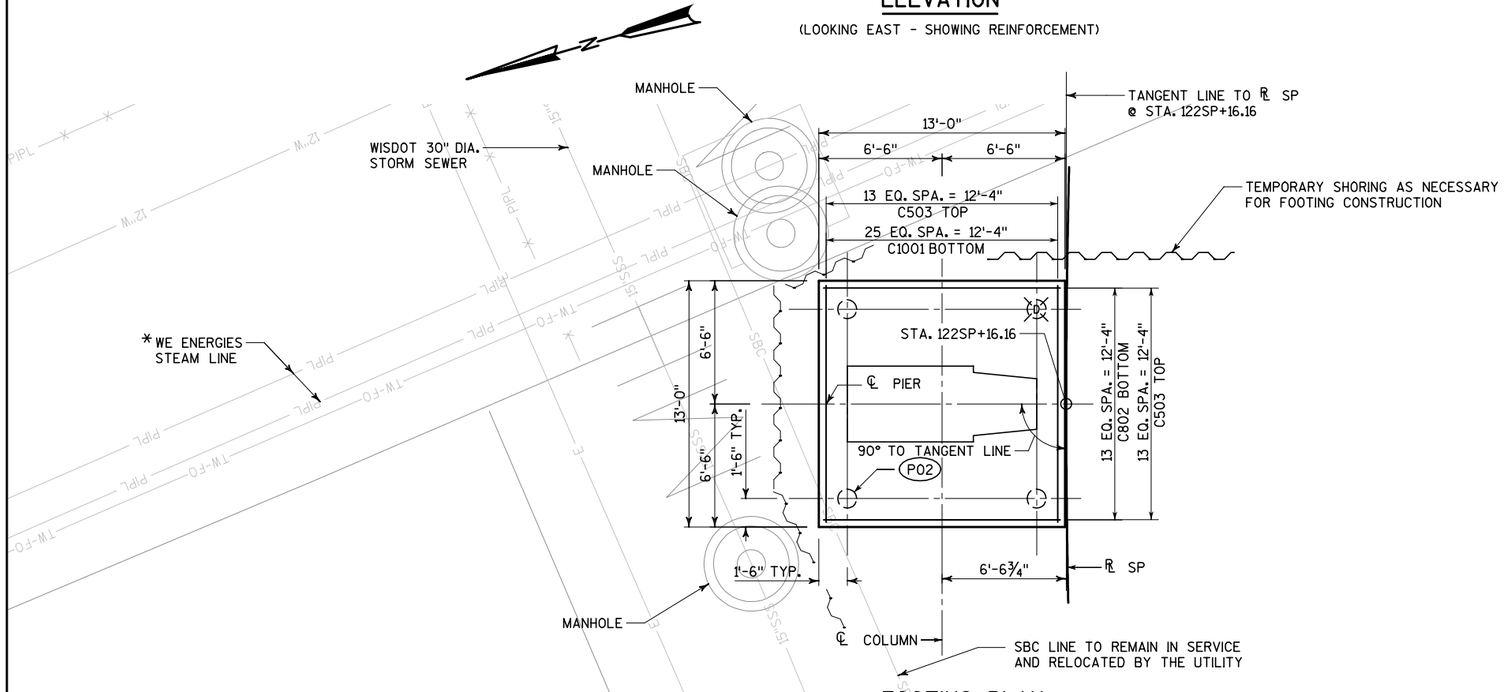
3198

STATE PROJECT NUMBER
1060-05-75



ELEVATION

(LOOKING EAST - SHOWING REINFORCEMENT)



FOOTING PLAN

NOTES

1. SEE SHEET 396 FOR C-I-P PILE SPLICE AND C-I-P PILE TIP DETAILS.

(P02) CIP 16" DIAM. PILING AT 235 TONS ALLOWABLE LOAD, ESTIMATED LENGTH = 130'. PREBORE ALL PILING 20'.

◇D DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

* STEAM LINE AND TRENCH BOX WAS LOCATED USING AS-BUILT DRAWINGS AND FIELD SURVEY. FIELD VERIFY STEAM LINE AND TRENCH BOX LOCATIONS IMMEDIATELY AFTER EXPOSURE AND NOTIFY THE ENGINEER OF ANY DEVIATIONS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

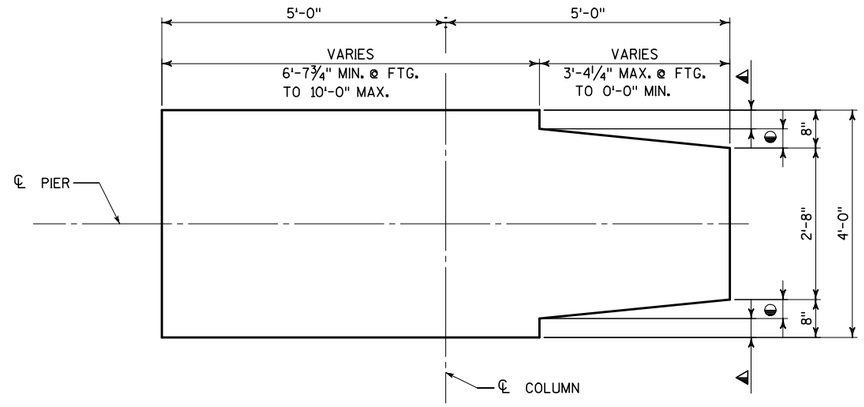
CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

PIER P3-006 REINF. LAYOUT

SHEET 331 OF 396

3199

8

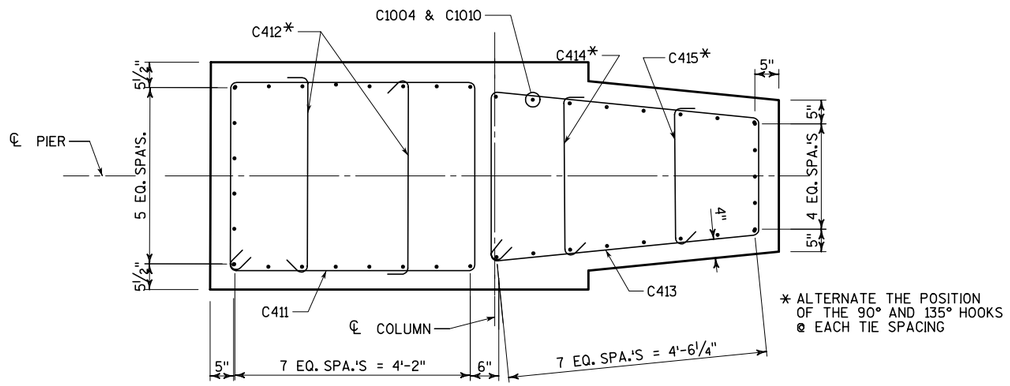


SECTION THRU COLUMN

(SHOWING DIMENSIONS)

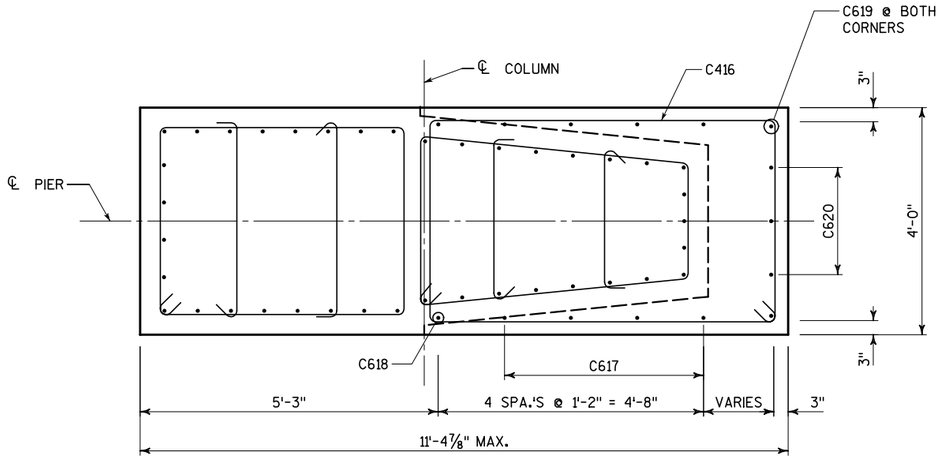
◑ VARIES 4" MAX. @ FTG. TO 0" MIN.

◭ VARIES 4" MIN. @ FTG. TO 8" MAX.



SECTION B-B

(SHOWING REINFORCEMENT)



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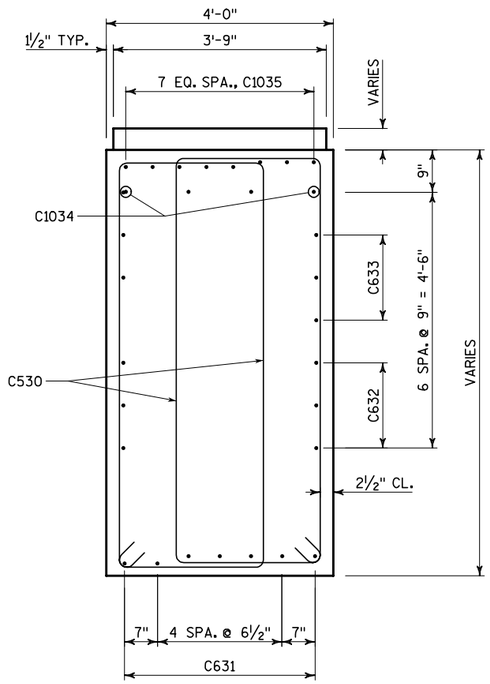
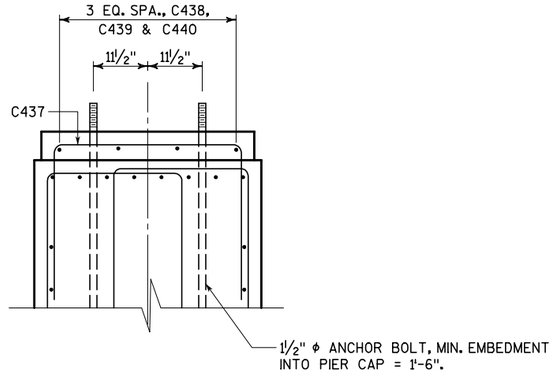


SECTION A-A



SECTION THRU GIRDER SEAT

STATE PROJECT NUMBER

1060-05-75

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER P3-006 DETAILS

SHEET 332 OF 396

3200

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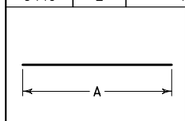
STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
C1001		26	12'-6"	1399	1	12'-6"									FOOTING	BOTTOM
C802		14	12'-6"	467	1	12'-6"									FOOTING	BOTTOM
C503		28	12'-6"	365	1	12'-6"									FOOTING	TOP
C1004	E	39	12'-7"	2112	8	11'-1"									FOOTING	DOWEL
C1010	E	39	20'-10"	3496	1	20'-10"									COLUMN	VERTICAL
C411	E	14	15'-10"	148	3	4'-4"	3'-4"								COLUMN	TIES
C412	E	28	4'-0"	75	13	3'-4"									COLUMN	TIES
C413	E	14	15'-1"	141	14	3'-0"	4'-9"	6"							COLUMN	TIES
C414	E	14	3'-5"	32	13	2'-9"									COLUMN	TIES
C415	E	14	3'-0"	28	13	2'-4½"									COLUMN	TIES
C416	E	6	19'-11"	80	3	6'-1½"	3'-7"								COLUMN	TIES, BUNDLE AND TAG EACH SERIES SEPARATELY
C617	E	2 series of 4	15'-2" to 3'-9"	114	1	15'-2" to 3'-9" by 3'-9⅝"									COLUMN	VERTICAL, BUNDLE AND TAG EACH SERIES SEPARATELY
C618	E	2	14'-8"	44	1	14'-8"									COLUMN	VERTICAL
C619	E	2	11'-9"	35	1	11'-9"									COLUMN	VERTICAL
C620	E	3	8'-0"	36	1	8'-0"									COLUMN	VERTICAL
C521	E	1	29'-1"	30	3	10'-8"	3'-7"								COLUMN	TIE, TOP OF COLUMN
C522	E	1	29'-5"	31	3	10'-10"	3'-7"								COLUMN	TIE, TOP OF COLUMN
C530	E	4 series of 14	12'-0" to 15'-10"	812	3	3'-1½" to 5'-0½" by 1¾"	2'-7"								CAP	STIRRUPS
C631	E	14	13'-9"	289	1	13'-9"									CAP	BOTTOM @ ENDS
C632	E	2 series of 3	23'-2" to 9'-7"	148	1	23'-2" to 9'-7" by 6'-9½"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
C633	E	2 series of 3	28'-3" to 27'-5"	251	1	28'-3" to 27'-5" by 5"									CAP	SIDES, BUNDLE AND TAG EACH SERIES SEPARATELY
C1034	E	4	30'-2"	519	4	1'-9½"	27'-3"								CAP	TOP
C1035	E	8	28'-10"	993	1	28'-10"									CAP	TOP
C536	E	10	7'-0"	73	17	2'-0"	3'-2"	2'-0"					62.51	75.00	CAP	VERTICAL ENDS
C437	E	26	8'-7"	149	4	2'-9"	3'-4"								CAP	VERTICAL GIRDER SEATS
C438	E	4	9'-3"	25	1	9'-3"									CAP	HORIZ. GIRDER SEATS
C439	E	4	11'-0"	29	1	11'-0"									CAP	HORIZ. GIRDER SEATS
C440	E	4	3'-7"	10	1	3'-7"									CAP	HORIZ. GIRDER SEATS



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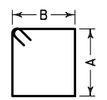

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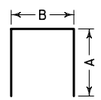

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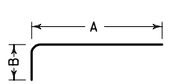
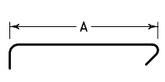


TYPE 8



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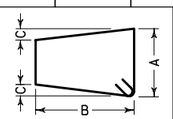

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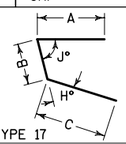


TYPE 17

TOTAL NON-EPOXY REINFORCEMENT	WT (LB)	2231
TOTAL EPOXY REINFORCEMENT	WT (LB)	9699

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 & 4 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

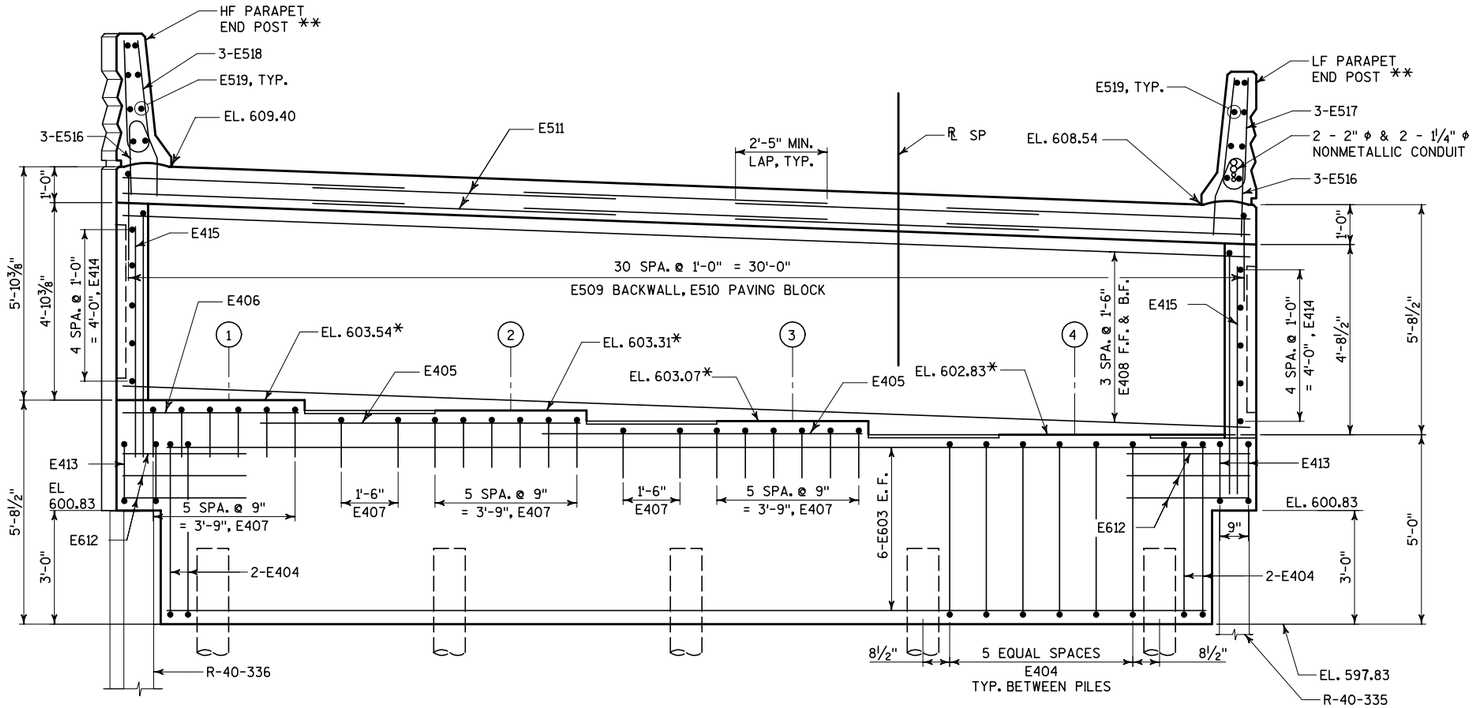
CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PIER P3-006
REINF. SCHEDULE

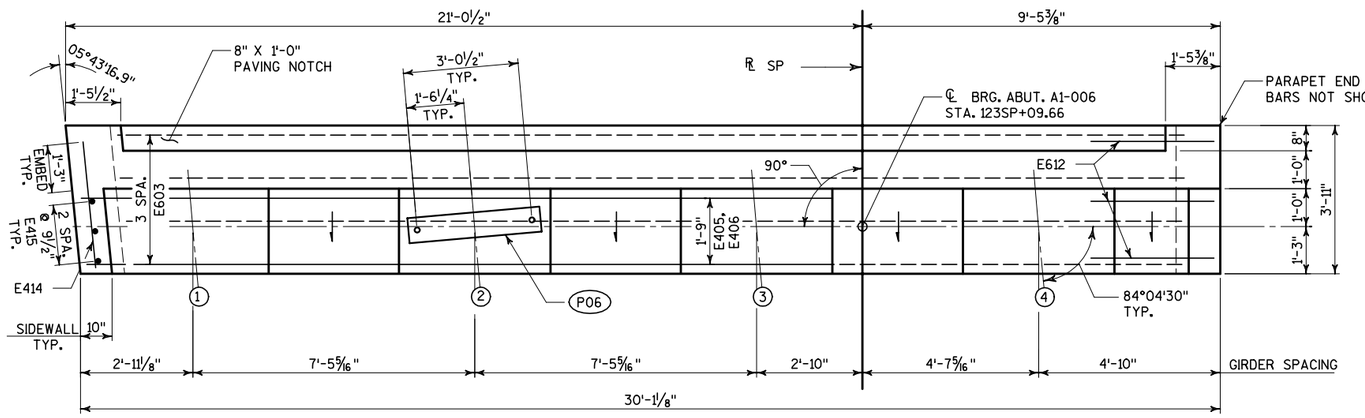
SHEET 333 OF 396
3201

STATE PROJECT NUMBER

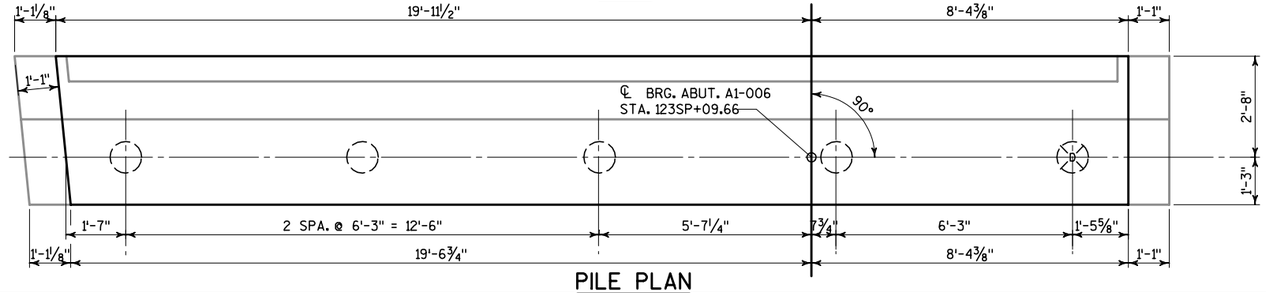
PARAPET END POST 1060-05-75



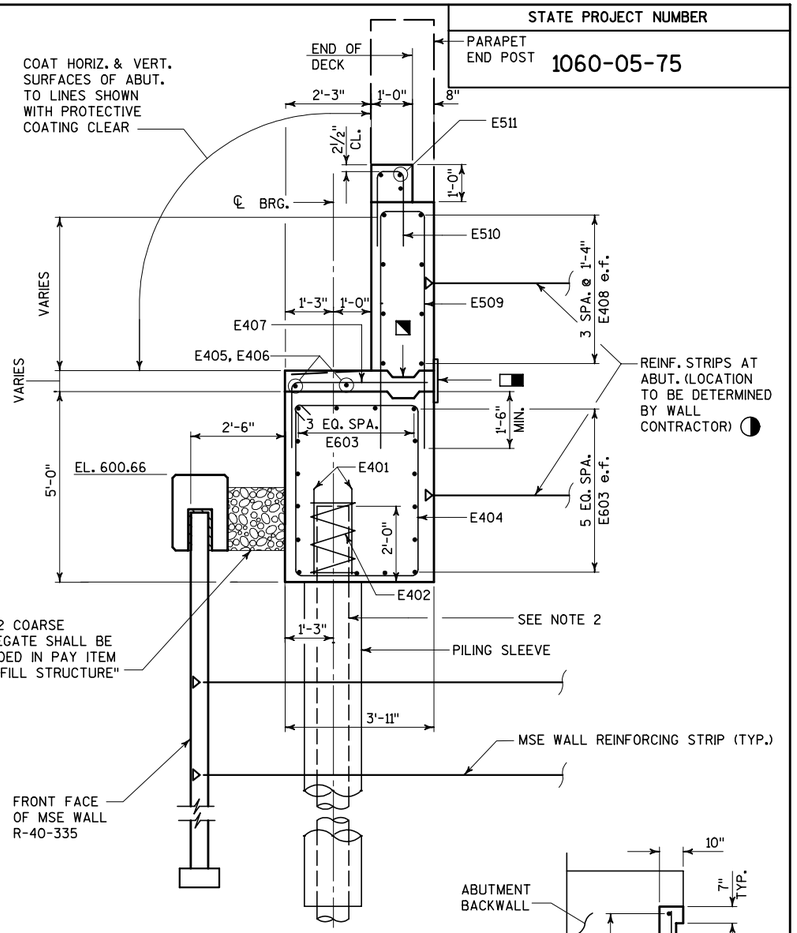
ELEVATION



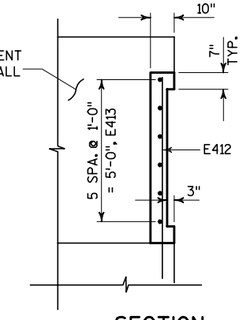
PLAN



PILE PLAN



SECTION THRU BODY



SECTION

(THRU SIDEWALL)

NOTES

- 18" RUBBERIZED MEMBRANE WATERPROOFING, SEAL ALL HORIZ. AND VERT. JOINTS ON BACKFACE.
- KEYED CONST. JOINT FORMED BY BEVELED 2" X 6".
- NON-FACTORED SUPERSTRUCTURE LATERAL LIVE LOAD TRANSFERRED TO ABUTMENT TO BE TAKEN AS 1.2 k/lf OF ABUTMENT. THIS VALUE TO BE USED FOR THE DESIGN OF THE REINFORCING STRIPS AT THE ABUTMENT.
- * ELEVATIONS ARE GIVEN AT THE TOP OF CONCRETE AT THE INTERSECTION OF THE ℄ GIRDER AND ℄ BRG.
- ** SEE SUPERSTRUCTURE DETAILS FOR DIMENSIONS.
- SLOPE 1" BETWEEN BEARING SEATS.

1. PILING SLEEVES INCLUDED IN THE QUANTITIES FOR R-40-335. WALL AND PILING SLEEVES TO BE CONSTRUCTED TO ELEVATION 597.83 PRIOR TO BEGINNING ABUTMENT CONSTRUCTION.
2. CIP 12¾" ϕ PILING AT 120 TONS ALLOWABLE LOAD. ESTIMATED LENGTH = 150'.

D DYNAMIC PILE LOAD TESTING LOCATION.

NOTE THAT PAY ITEMS SPV.0060.2060 AND SPV.0060.2065 INCLUDE ONLY THE PREMIUM COST ASSOCIATED WITH THE DYNAMIC LOAD TESTING OF THESE PILES. PAYMENT FOR ALL OTHER ASPECTS OF THESE PILES IS INCLUDED UNDER OTHER PAY ITEMS.

TEST PILES REQUIRE AN INTERIM CUTOFF ELEVATION THAT IS HIGHER THAN THE FINAL CUTOFF ELEVATION. THIS ADDITIONAL LENGTH WILL BE PAID FOR UNDER THE PILING PAY ITEM AND HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES.

P06 1½" X 8" X 3'-6" MASONRY PLATE, SEE "PRESTRESSED GIRDER BEARINGS" SHEET FOR DETAILS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

ABUTMENT A1-006

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3202

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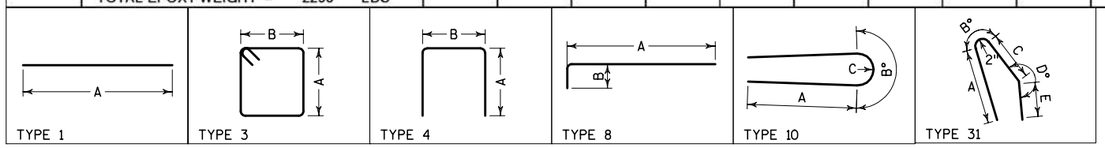
STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS									LOCATION	REMARKS
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J		
E401	E	10	2'-3"	15	1	2'-3"									ABUT. - PILE	
E402	E	5	28'-0"	94	SPIRAL										ABUT. - PILE	
E603	E	16	27'-4"	657	1	27'-4"									ABUT. - BODY - HORIZ.	
E404	E	28	16'-6"	298	3	4'-6"	3'-6"								ABUT. - BODY - STIRRUP	
E405	E	4	8'-6"	23	1	8'-6"									ABUT. - STEP - HORIZ.	
E406	E	2	4'-7"	6	1	4'-7"									ABUT. - STEP - HORIZ.	
E407	E	22	5'-7"	82	8	3'-6"	2'-2"								ABUT. - STEP - VERT.	
E408	E	8	29'-11"	160	1	29'-11"									ABUT. - BACK WALL - HORIZ.	
E509	E	31	15'-9"	509	4	7'-4"	1'-4"								ABUT. - BACK WALL - VERT.	
E510	E	31	2'-3"	73	4	1'-10"	8"								ABUT. - PAV. BLOCK - VERT.	
E511	E	15	8'-0"	125	1	8'-0"									ABUT. - PAV. BLOCK - HORIZ.	
E612	E	16	3'-3"	78	1	3'-3"									ABUT. - BODY END - HORIZ.	
E413	E	4	10'-8"	29	3	1'-7"	3'-6"								ABUT. - BODY END - STIRRUP	
E414	E	10	3'-4"	22	1	3'-4"									ABUT. - SIDE WALL - HORIZ.	
E415	E	6	6'-1"	24	1	6'-1"									ABUT. - SIDE WALL - VERT.	
E516	E	6	4'-10"	30	31	2'-2"	155°	1'-1"	215°	1'-2"					PARAPET END POST	
E517	E	3	5'-2"	16	10	2'-2"	186°	3"							LF PARAPET END POST	
E518	E	3	6'-10"	21	10	3'-0"	184°	3"							HF PARAPET END POST	
E519	E	16	1'-3"	21	1	1'-3"									PARAPET END POST	
	TOTAL BLACK WEIGHT =			0	LBS											
	TOTAL EPOXY WEIGHT =			2295	LBS											



NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 FOR ADDITIONAL INFORMATION.
2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.
3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED
4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.
5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.
6. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. BAR SERIES INFORMATION IS LOCATED IN THE BAR CHART.

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

ABUT. A1-006
REINF. SCHEDULE

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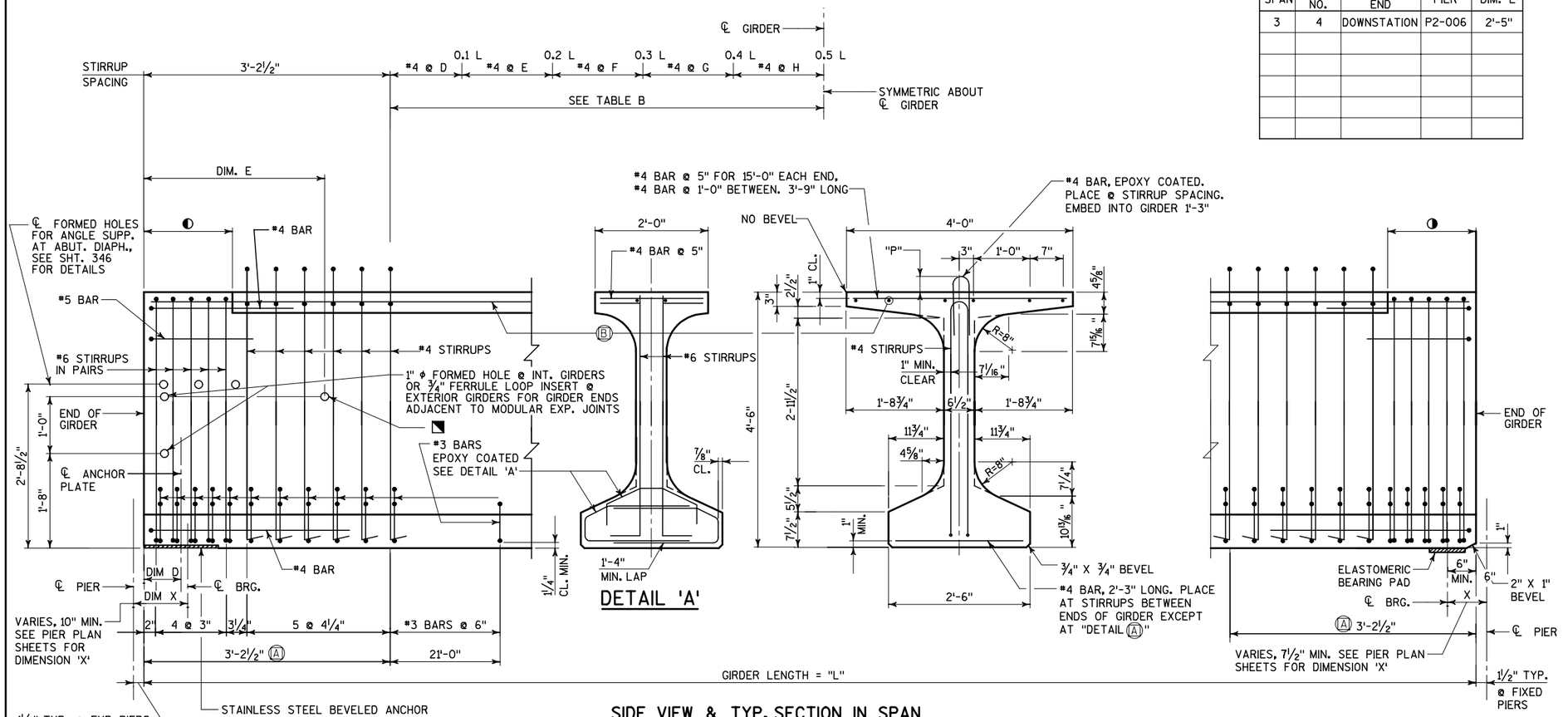


TABLE C - DRAIN INSERT LOCATIONS

SPAN	GIRDER NO.	GIRDER END	PIER	DIM. E
3	4	DOWNSTATION	P2-006	2'-5"

NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY FOR BONDING TO THE SLAB, EXCEPT THE OUTSIDE 15" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH. AN APPROVED LIQUID BOND BREAKER SHALL BE APPLIED TO THE TOP SURFACE OF THE GIRDER EXCEPT FOR THE CENTER 18". APPLY NO MORE THAN 7 DAYS PRIOR TO POURING THE DECK.

NOX-CRETE:
SILCOSEAL 2000 F (2 COATS)
MASTER BUILDERS:
FIRST COAT - PRECO FORM-COTE
SECOND COAT - RHEOFINISH 220

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS.

PRESTRESSING STRANDS SHALL BE 0.6" ϕ - 7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 PSI AND SHALL BE FLUSH WITH THE ENDS OF THE GIRDER.

BEND EACH END OF #4 STIRRUPS 4½" AND #6 STIRRUPS 9".

FOR DIAPHRAGM INSERT & CONNECTION DETAILS, SEE "STEEL DIAPHRAGM" SHEET. FOR LOCATION OF INSERTS, SEE "GIRDER FRAMING PLAN" SHEETS.

FOR THREADED INSERT & FORMED HOLE LOCATIONS & DETAILS AT CONCRETE DIAPH'S, SEE "SUPERSTRUCTURE DETAILS" SHEETS.

ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT. IF THE FABRICATOR WANTS TO BUILD A BAR STEEL CAGE BY WELDING LONGITUDINAL REINFORCEMENT TO THE #4 STIRRUPS, 2 OPTIONS ARE AVAILABLE:

1. USE ASTM A706, GRADE 60 REINFORCEMENT AND THE STIRRUP SPACING AS SHOWN ON THE PLANS.
2. USE ASTM A615, GRADE 40 REINFORCEMENT AND A MODIFIED STIRRUP SPACING SUBMITTED TO AND APPROVED BY THE STRUCTURES DEVELOPMENT SECTION.

AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION.

WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ASTM A497.

ENDS OF STRANDS SHALL BE PAINTED WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER AT GIRDER ENDS THAT ARE EXPOSED.

ALL PRESTRESSED GIRDERS SHALL BE 60 DAYS OLD BEFORE THE DECK AND CONCRETE DIAPHRAGMS ARE POURED.

FOR FORMED HOLES IN WEB FOR END DIAPHRAGM SUPPORT ANGLE @ ABUT. A1-006, SEE 'SUPERSTRUCTURE DETAILS' SHEETS.

SIDE VIEW & TYP. SECTION IN SPAN

Ⓐ DETAIL TYP. AT EACH END

⒝ #6 BARS, FULL LENGTH, MIN. LAP = 3'-2"

◐ TOP FLANGE BLOCK OUT. SEE DETAILS ON SHEET 337

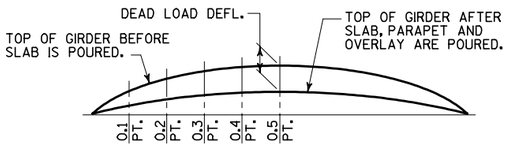
◥ ¾" ϕ ELECTROPLATED FERRULE LOOP INSERT (MEDIUM HIGH CARBON WIRE) OR APPROVED EQUAL. SEE TABLE C, DECK PLAN SHEETS AND PIER DRAIN SHEETS FOR LOCATIONS AND DETAILS OF INSERT.

TABLE A

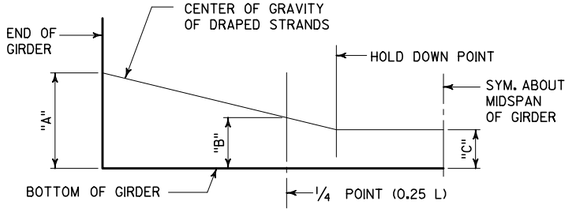
PIER NO.	DIM. D	ANCHOR PLATE DIM'S
P1-006, P3-006	7"	½" X 1'-4" X 2'-4½"
P6-002	9"	½" X 1'-6" X 2'-4½"
A1-006	7"	½" X 1'-2" X 2'-4½"

TABLE B - STIRRUP SPACING

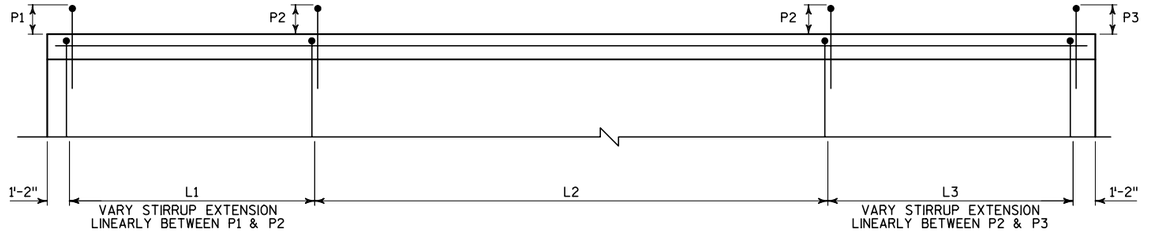
SPAN	MAX. SPACING				
	D	E	F	G	H
1	10"	12"	12"	14"	18"
2 & 3	12"	12"	12"	14"	18"
4	10"	14"	14"	14"	18"



DEAD LOAD DEFLECTION DIAGRAM



DRAPED STRAND PROFILE



STIRRUP EXTENSION DETAIL

SPAN	GIRDERS	GIRDER LENGTH	L1	L2	L3	P1	P2	P3
4	1	96'-11⅝"	9'-0"	60'-11⅝"	27'-0"	7"	8"	7"

NOTE: STIRRUP EXTENSION DETAIL IS REQUIRED ONLY FOR GIRDER ONE IN SPAN 4

STATE PROJECT NUMBER

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

CONST. SPEC. 2004 | DRAWN BY RWN | PLANS CK'D. KES

54"W PRESTRESSED GIRDER DETAILS 1

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STATE PROJECT NUMBER

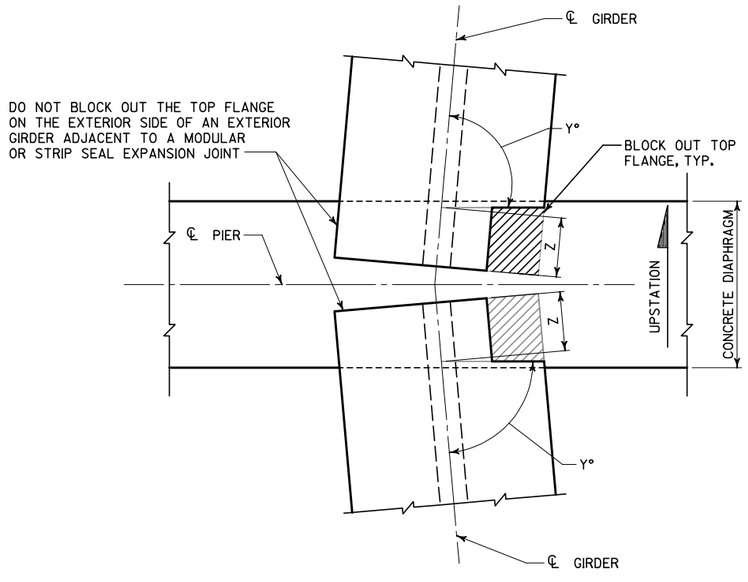
1060-05-75

GIRDER DATA

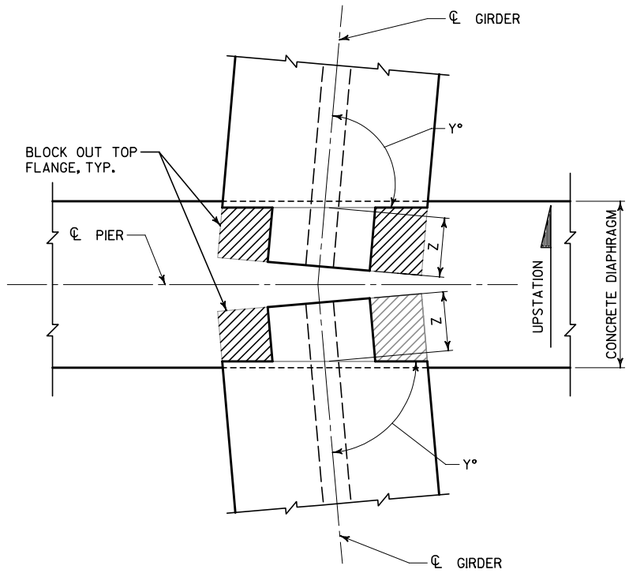
SPAN	GIRDER NO.	GIRDER LENGTH "L"	DEAD LOAD DEFL. (IN.) 0.1	0.2	0.3	0.4	0.5	CONC. STRGTH. f'c (p.s.i.)	"P" **	DIA. OF STRAND	DRAPED PATTERN TOTAL NO. OF STRANDS	f'ci (p.s.i.) *	(IN.) "A"	"B" MIN.	"B" MAX.	"C"	UNDRAPED PATTERN TOTAL NO. OF STRANDS	f'ci (p.s.i.) *	TOP FLANGE BLOCK OUT DIM'S GIRDER END	Z (IN.)	Y
1	1	100'-0 3/4"	1/2"	3/4"	1"	1 1/4"	1 1/4"	8,000	7"	0.6"	24	6,000	49	3 1/2	6 1/2	5	——	——	DOWNSTATION	23	90°0'0"
																			UPSTATION	12	87°44'20.6"
1	2	99'-9 1/4"	1/2"	3/4"	1"	1 1/4"	1 1/4"	8,000	7"	0.6"	24	6,000	49	3 1/2	6 1/2	5	——	——	DOWNSTATION	23	90°0'0"
																			UPSTATION	12	87°44'20.6"
1	3	99'-5 5/8"	1/2"	3/4"	1"	1 1/4"	1 1/4"	8,000	7"	0.6"	24	6,000	49	3 1/2	6 1/2	5	——	——	DOWNSTATION	23	90°0'0"
																			UPSTATION	12	87°44'20.6"
1	4	99'-2 1/8"	1/2"	3/4"	1"	1 1/4"	1 1/4"	8,000	7"	0.6"	24	6,000	49	3 1/2	6 1/2	5	——	——	DOWNSTATION	23	90°0'0"
																			UPSTATION	12	87°44'20.6"
2	1	96'-4 1/2"	3/8"	5/8"	3/4"	7/8"	7/8"	8,000	7"	0.6"	18	6,000	50	2 1/2	5 1/2	4	——	——	DOWNSTATION	12	84°46'14.6"
																			UPSTATION	12	84°42'40.5"
2	2	95'-0"	3/8"	5/8"	3/4"	7/8"	7/8"	8,000	7"	0.6"	18	6,000	50	2 1/2	5 1/2	4	——	——	DOWNSTATION	12	84°46'14.6"
																			UPSTATION	12	84°42'40.5"
2	3	93'-7 5/8"	3/8"	5/8"	3/4"	7/8"	7/8"	8,000	7"	0.6"	18	6,000	50	2 1/2	5 1/2	4	——	——	DOWNSTATION	12	84°46'14.6"
																			UPSTATION	12	84°42'40.5"
2	4	92'-3 1/4"	3/8"	5/8"	3/4"	7/8"	7/8"	8,000	7"	0.6"	18	6,000	50	2 1/2	5 1/2	4	——	——	DOWNSTATION	12	84°46'14.6"
																			UPSTATION	12	84°42'40.5"
3	1	96'-4 3/8"	3/8"	5/8"	3/4"	7/8"	7/8"	8,000	7"	0.6"	18	6,000	50	2 1/2	5 1/2	4	——	——	DOWNSTATION	12	84°44'23.4"
																			UPSTATION	12	87°44'29.2"
3	2	95'-0"	3/8"	5/8"	3/4"	7/8"	7/8"	8,000	7"	0.6"	18	6,000	50	2 1/2	5 1/2	4	——	——	DOWNSTATION	12	84°44'23.4"
																			UPSTATION	12	87°44'29.2"
3	3	93'-7 5/8"	3/8"	5/8"	3/4"	7/8"	7/8"	8,000	7"	0.6"	18	6,000	50	2 1/2	5 1/2	4	——	——	DOWNSTATION	12	84°44'23.4"
																			UPSTATION	12	87°44'29.2"
3	4	92'-3 1/4"	3/8"	5/8"	3/4"	7/8"	7/8"	8,000	7"	0.6"	18	6,000	50	2 1/2	5 1/2	4	——	——	DOWNSTATION	12	84°44'23.4"
																			UPSTATION	12	87°44'29.2"
4	1	96'-11 5/8"	3/8"	5/8"	3/4"	7/8"	1"	8,000	VARIES	0.6"	20	6,000	50	2 1/2	5 1/2	4	——	——	DOWNSTATION	12	84°44'23.4"
																			UPSTATION	25	95°3'43.9"
4	2	95'-7 3/4"	3/8"	5/8"	3/4"	7/8"	1"	8,000	7"	0.6"	20	6,000	50	2 1/2	5 1/2	4	——	——	DOWNSTATION	12	84°44'23.4"
																			UPSTATION	25	95°3'43.9"
4	3	94'-3 7/8"	3/8"	5/8"	3/4"	7/8"	1"	8,000	7"	0.6"	20	6,000	50	2 1/2	5 1/2	4	——	——	DOWNSTATION	12	84°44'23.4"
																			UPSTATION	25	95°3'43.9"
4	4	93'-0 1/8"	3/8"	5/8"	3/4"	7/8"	1"	8,000	7"	0.6"	20	6,000	50	2 1/2	5 1/2	4	——	——	DOWNSTATION	12	84°44'23.4"
																			UPSTATION	25	95°3'43.9"

* MINIMUM CYLINDER STRENGTH OF CONCRETE AT TIME OF TRANSFER OF PRESTRESS FORCE.

** FOR STIRRUP EXTENSION, SEE DETAIL ON 54W" PRESTRESSED GIRDER DETAILS 1.



TOP FLANGE BLOCKOUT DETAIL
@ EXTERIOR GIRDERS



TOP FLANGE BLOCKOUT DETAIL
@ INTERIOR GIRDERS

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

CONST. SPEC. 2004	DRAWN BY DJS	PLANS CK'D. KES

54"W PRESTRESSED GIRDER DETAILS 2

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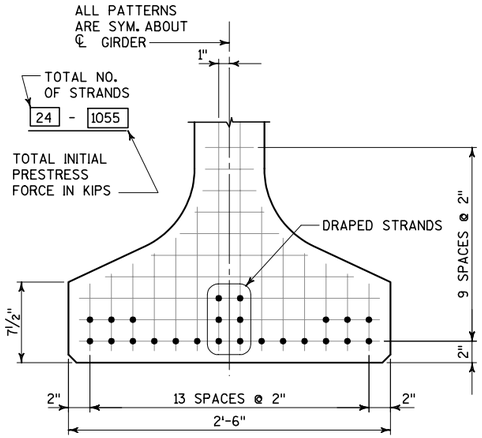
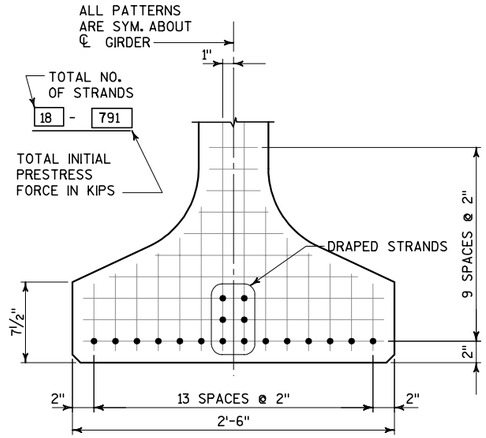
3205

STATE PROJECT NUMBER

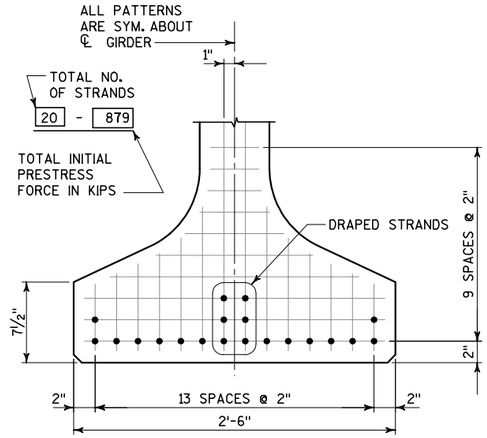
1060-05-75



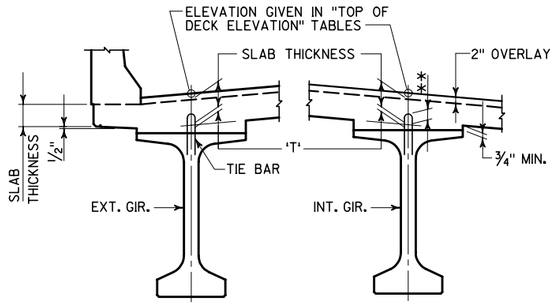
TYP. STRAND PATTERN
SPAN 1



TYP. STRAND PATTERN
SPAN 2 & 3



TYP. STRAND PATTERN
SPAN 4



SLAB HAUNCH DETAIL

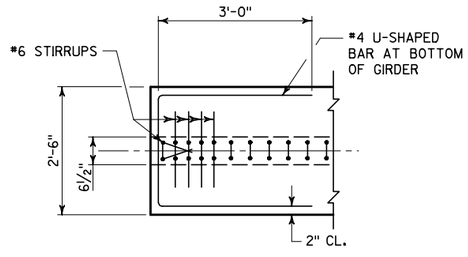
IF ¾" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR. THE PLAN SLAB THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN ½" OR,

** IF 3" MINIMUM DECK EMBEDMENT OF THE TIE BAR CANNOT BE OBTAINED.

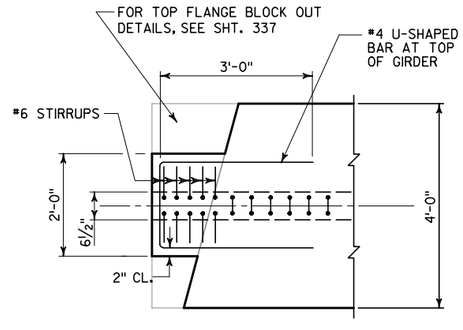
TO DETERMINE 'T', ELEV. OF TOP OF GIRDERS AT ℄ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
\- TOP OF GIRDER ELEVATION
\+ DEAD LOAD DEFLECTION
\- SLAB THICKNESS

= HAUNCH HEIGHT 'T'



BOTTOM FLANGE AT GIRDER ENDS



TOP FLANGE AT GIRDER ENDS

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004		

54"W PRESTRESSED GIRDER DETAILS 3

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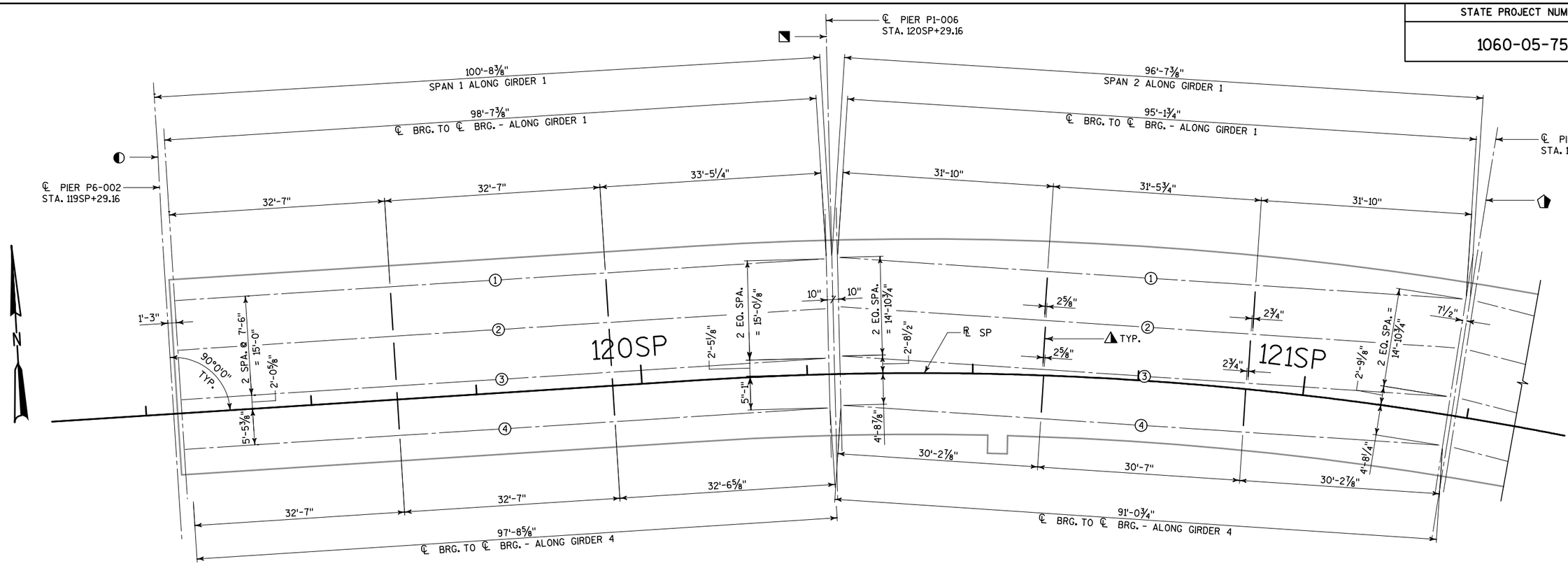
STATE PROJECT NUMBER
1060-05-75



GIRDER FRAMING PLAN

DECK EDGE DIMENSIONS FROM ℄ SP		
STATION	LEFT EDGE	RIGHT EDGE
119SP+29.16	20'-3"	9'-3"
119SP+50.00	20'-3"	9'-3"
119SP+75.00	20'-3"	9'-3"
120SP+00.00	20'-3"	9'-3"
120SP+25.00	20'-3"	9'-3"
120SP+29.16	20'-3"	9'-3"
120SP+50.00	20'-3"	9'-3"
120SP+75.00	20'-3"	9'-3"
121SP+00.00	20'-3"	9'-3"
121SP+22.66	20'-3"	9'-3"

NOTES

1. LAYOUT ANGLES SHOWN ARE MEASURED FROM A LINE TANGENT TO ℄ AT ℄ PIER.

LEGEND

- ▲ INTERMEDIATE STEEL DIAPHRAGM, TYP. DIAPHRAGMS ARE PERPENDICULAR TO ℄ OF GIRDER, SEE SHT. 355 FOR DETAILS
- ◥ ℄ EXPANSION PIER DIAPHRAGM, SEE SHT. 344 FOR DETAILS
- ◐ ℄ MODULAR JT. EXPANSION PIER DIAPHRAGM, SEE SHT. 345 FOR DETAILS
- ◑ ℄ FIXED PIER DIAPHRAGM, SEE SHT. 344 FOR DETAILS

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	DJS	KES

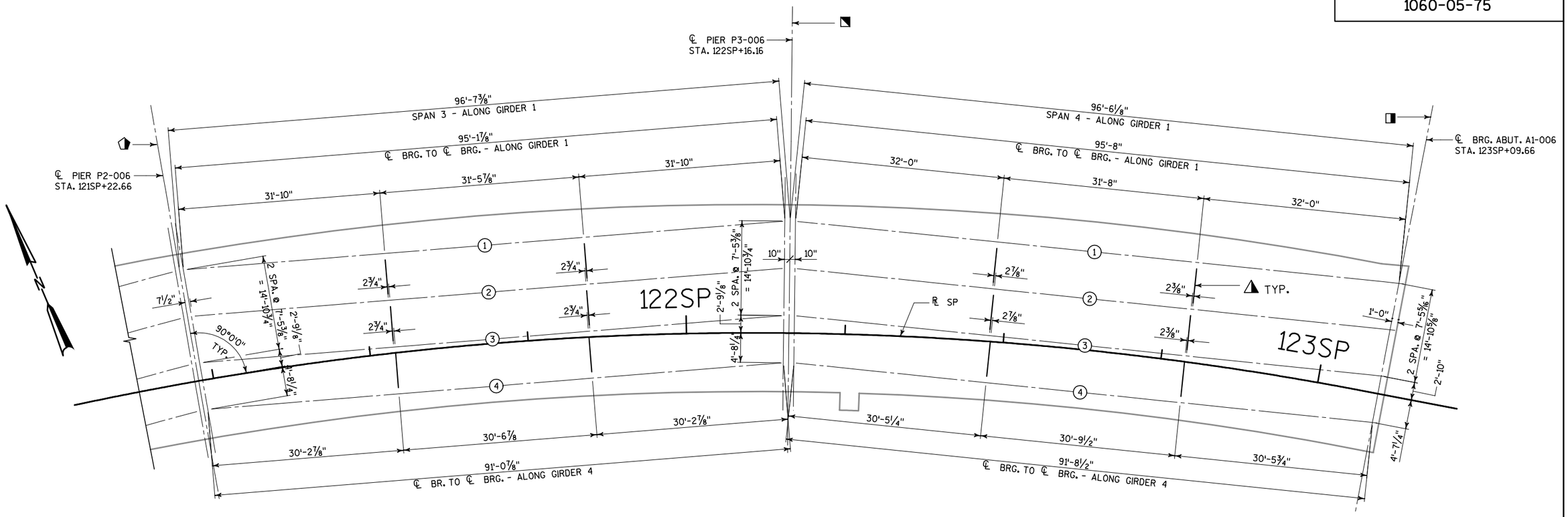
GIRDER FRAMING PLAN 1

SHEET 339 OF 396

3207

FILE NAME: R:\C&bridges\1312\cds\1312-06C022D.dgn PEN TABLE: \\mtp\FinalDgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:44 Plotted by: emccrigh

STATE PROJECT NUMBER
1060-05-75



GIRDER FRAMING PLAN

DECK EDGE DIMENSIONS FROM ℄ SP		
STATION	LEFT EDGE	RIGHT EDGE
121SP+22.66	20'-3"	9'-3"
121SP+25.00	20'-3"	9'-3"
121SP+50.00	20'-3"	9'-3"
121SP+75.00	20'-3"	9'-3"
122SP+00.00	20'-3"	9'-3"
122SP+16.16	20'-3"	9'-3"
122SP+25.00	20'-3"	9'-3"
122SP+50.00	20'-3"	9'-3"
122SP+75.00	20'-3"	9'-3"
123SP+00.00	20'-3"	9'-3"
123SP+06.40	20'-3"	9'-3"
123SP+09.16	20'-8⅛"	9'-3"

NOTES

1. LAYOUT ANGLES SHOWN ARE MEASURED FROM A LINE TANGENT TO ℄ AT ℄ PIER.

LEGEND

- ▲ INTERMEDIATE STEEL DIAPHRAGM, TYP. DIAPHRAGMS ARE PERPENDICULAR TO ℄ OF GIRDER, SEE SHT. 355 FOR DETAILS
- ◥ ℄ EXPANSION PIER DIAPHRAGM, SEE SHT. 344 FOR DETAILS
- ◨ STRIP SEAL EXPANSION JOINT, SEE SHT. 346 FOR DETAILS
- ◮ ℄ FIXED PIER DIAPHRAGM, SEE SHT. 344 FOR DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	DJS	KES

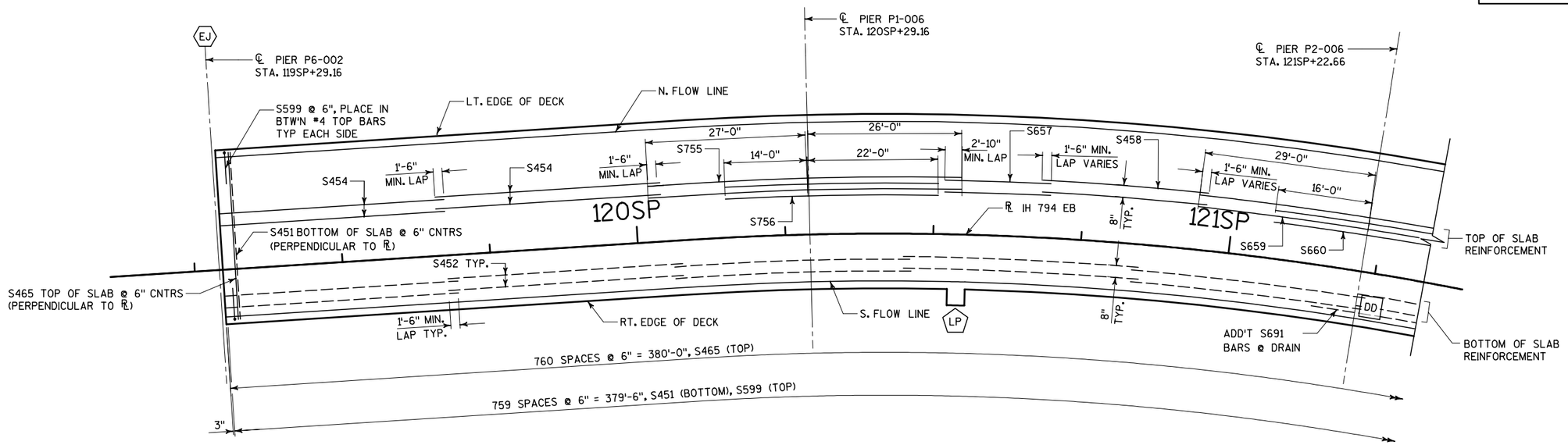
GIRDER FRAMING PLAN 2

SHEET 340 OF 396

3208

8

STATE PROJECT NUMBER
1060-05-75



DECK PLAN

LEGEND

EJ — EXPANSION JOINT LOCATION.

LP — LIGHT POLE MOUNTING LOCATION. ✳

DD — DECK DRAIN LOCATION. ✳

DECK FEATURE SUMMARY			
STATION	FEATURE	SIDE	DETAIL SHEETS
119SP+29.16	EXPANSION JOINT		365-368
120SP+59.00	LIGHT POLE	RIGHT	373-376
121SP+25.20	DECK DRAIN - TYPE B	RIGHT	371-372

TOP OF DECK ELEVATIONS (GIVEN @ TOP OF OVERLAY)

	℄ PIER P6-002	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P1-006	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P2-006
N. FLOW LINE	619.36	619.37	619.37	619.36	619.34	619.31	619.26	619.21	619.14	619.06	618.97	618.87	618.76	618.60	618.41	618.22	618.01	617.79	617.57	617.33	617.08
GIRDER 1	619.32	619.33	619.32	619.30	619.28	619.24	619.18	619.12	619.05	618.97	618.88	618.74	618.59	618.40	618.20	618.01	617.81	617.61	617.42	617.22	616.97
GIRDER 2	619.17	619.15	619.12	619.08	619.03	618.96	618.89	618.80	618.70	618.60	618.48	618.32	618.15	617.96	617.76	617.56	617.36	617.17	616.97	616.78	616.52
GIRDER 3	619.01	618.97	618.92	618.85	618.78	618.69	618.59	618.48	618.36	618.23	618.08	617.90	617.71	617.51	617.31	617.12	616.92	616.72	616.53	616.33	616.07
GIRDER 4	618.86	618.79	618.72	618.63	618.53	618.42	618.29	618.16	618.02	617.86	617.68	617.48	617.26	617.06	616.87	616.67	616.47	616.28	616.08	615.88	615.62
S. FLOW LINE	618.82	618.74	618.65	618.56	618.44	618.32	618.19	618.04	617.88	617.71	617.53	617.35	617.16	616.98	616.79	616.60	616.39	616.17	615.95	615.71	615.46

✳ SEE DETAIL SHEETS FOR ADDITIONAL DECK REINFORCEMENT REQUIRED IN THIS AREA.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

CONST. SPEC. 2004	DRAWN BY DJS	PLANS CK'D. KES

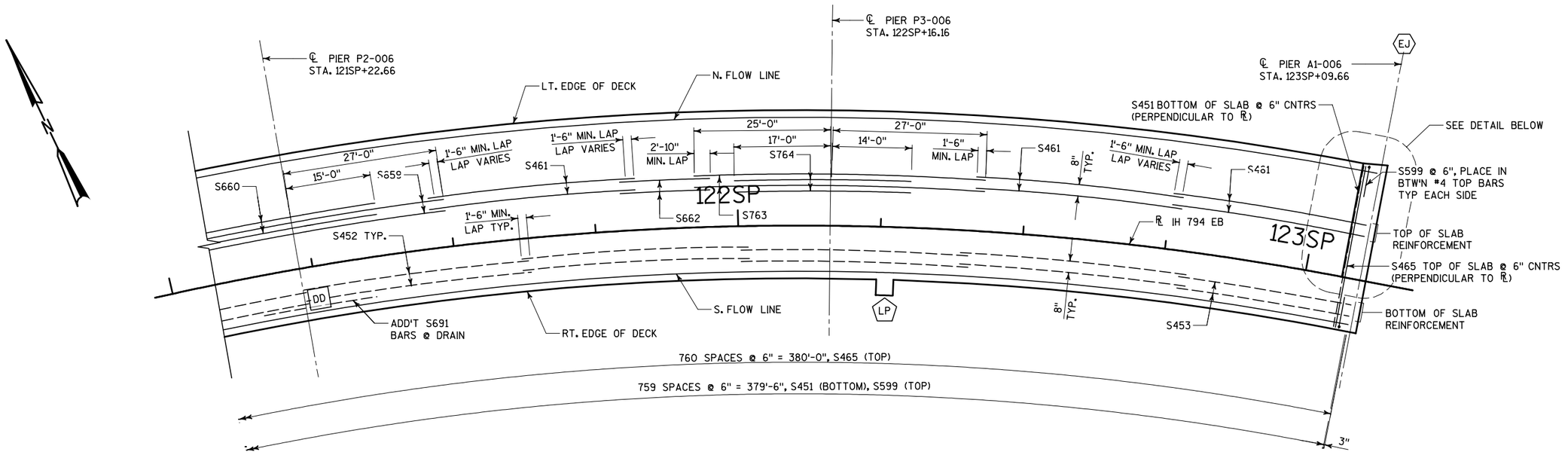
DECK PLAN / REINFORCEMENT 1

SHEET 341 OF 396

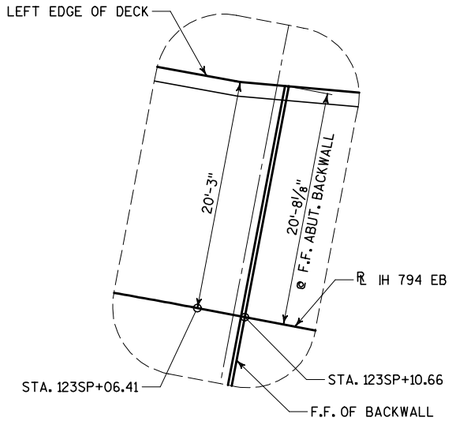
3209

8

STATE PROJECT NUMBER
1060-05-75



DECK PLAN



DETAIL

LEGEND

EJ — EXPANSION JOINT LOCATION.

DD — DECK DRAIN LOCATION.*

LP — LIGHT POLE MOUNTING LOCATION.*

DECK FEATURE SUMMARY			
STATION	FEATURE	SIDE	DETAIL SHEETS
121SP+25.20	DECK DRAIN - TYPE B	RIGHT	371-372
122SP+26.00	LIGHT POLE	RIGHT	373-376
123SP+09.16	EXPANSION JOINT		365-368

TOP OF DECK ELEVATIONS (GIVEN @ TOP OF OVERLAY)

	℄ PIER P2-006	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ PIER P3-006	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ ABUT A1-006
N. FLOW LINE	617.08	616.82	616.55	616.27	615.98	615.68	615.37	615.05	614.72	614.38	614.03	613.67	613.30	612.92	612.49	612.01	611.51	611.00	610.48	609.95	609.41
GIRDER 1	616.97	616.67	616.37	616.07	615.77	615.48	615.18	614.88	614.58	614.29	613.91	613.51	613.11	612.72	612.29	611.82	611.36	610.89	610.42	609.94	609.44
GIRDER 2	616.52	616.22	615.92	615.63	615.33	615.03	614.73	614.43	614.14	613.84	613.46	613.06	612.67	612.27	611.86	611.42	610.99	610.55	610.11	609.66	609.21
GIRDER 3	616.07	615.78	615.48	615.18	614.88	614.59	614.29	613.99	613.69	613.40	613.01	612.62	612.22	611.82	611.42	611.02	610.62	610.22	609.81	609.39	608.97
GIRDER 4	615.62	615.33	615.03	614.74	614.44	614.14	613.84	613.54	613.25	612.95	612.56	612.17	611.77	611.38	610.99	610.62	610.25	609.88	609.51	609.12	608.73
S. FLOW LINE	615.46	615.20	614.93	614.65	614.36	614.06	613.75	613.43	613.10	612.76	612.41	612.05	611.68	611.30	610.92	610.55	610.18	609.79	609.39	608.98	608.57

* SEE DETAIL SHEETS FOR ADDITIONAL DECK REINFORCEMENT REQUIRED IN THIS AREA.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

CONST. SPEC. 2004	DRAWN BY DJS	PLANS CK'D. KES

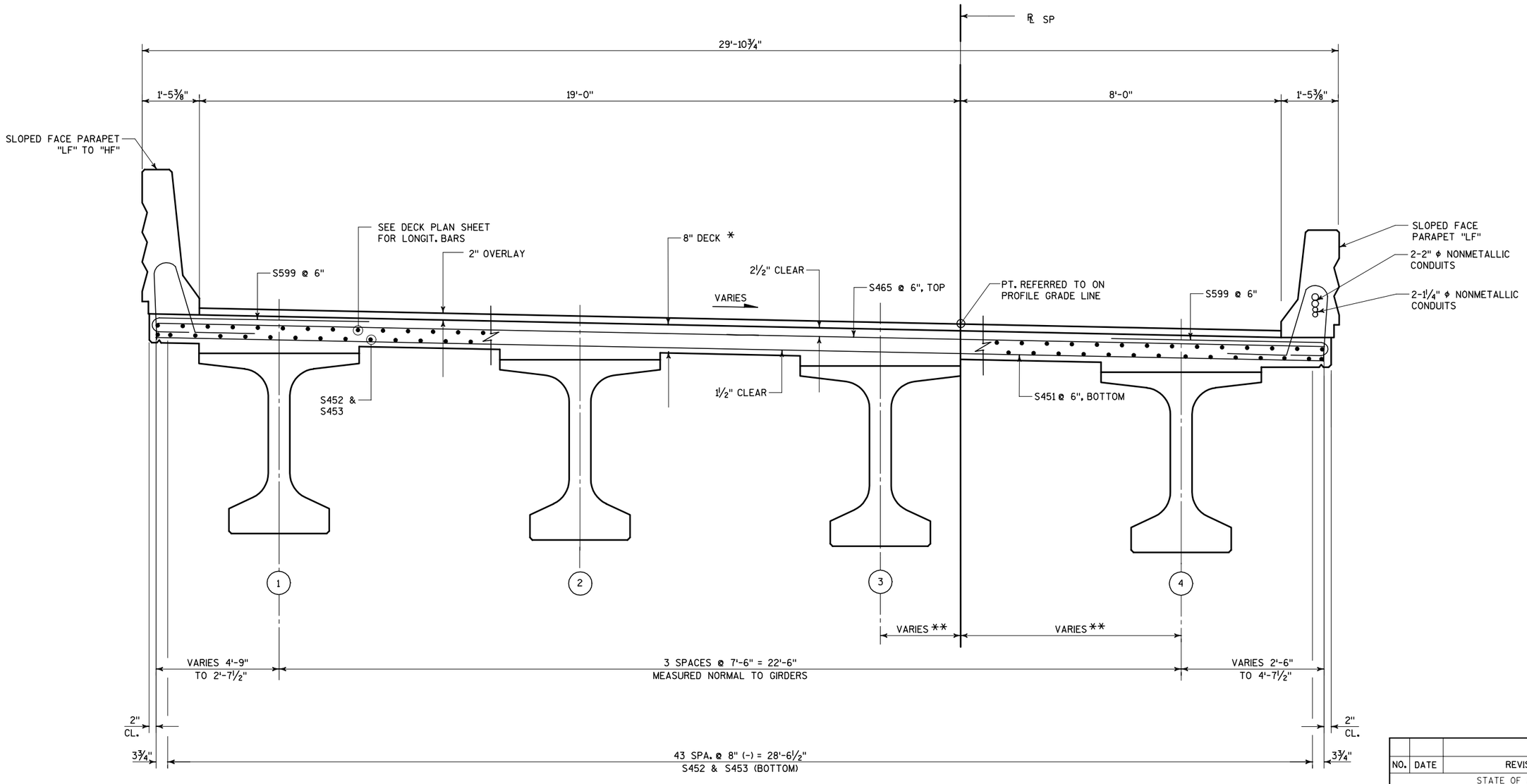
DECK PLAN / REINFORCEMENT 2

SHEET 342 OF 396

3210

8

STATE PROJECT NUMBER
1060-05-75



DECK SECTION

(LOOKING EAST)

NOTE:

* THE CONTRACTOR HAS THE OPTION TO USE PRECAST CONCRETE DECK PANELS INSTEAD OF TRADITIONAL FORMING METHODS. SEE SHEET 353 FOR DETAILS.

** SEE FRAMING PLAN FOR DIMENSIONS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

CONST. SPEC. 2004	DRAWN BY DJS	PLANS CK'D. KES

DECK CROSS SECTION

SHEET 343 OF 396

3211

8

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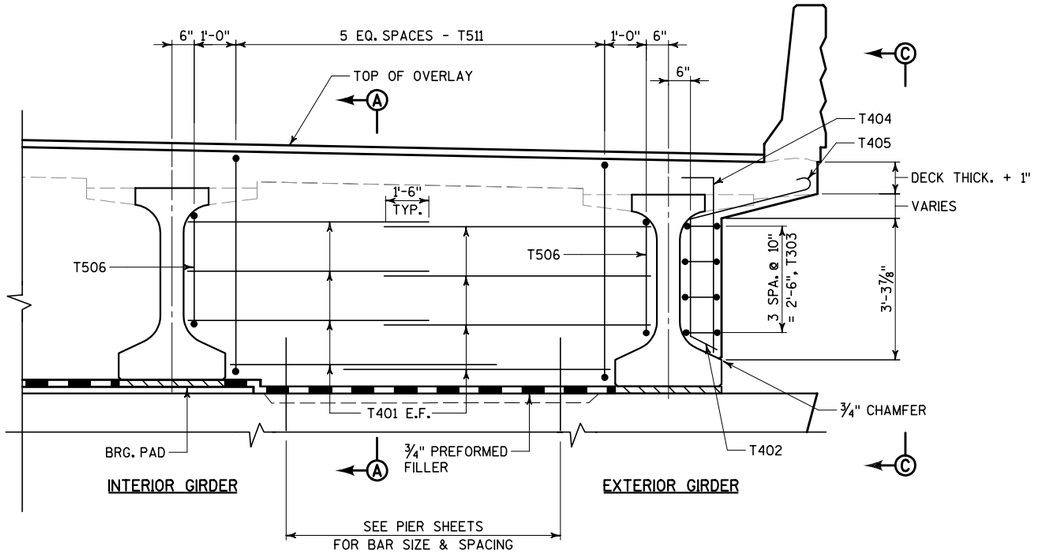
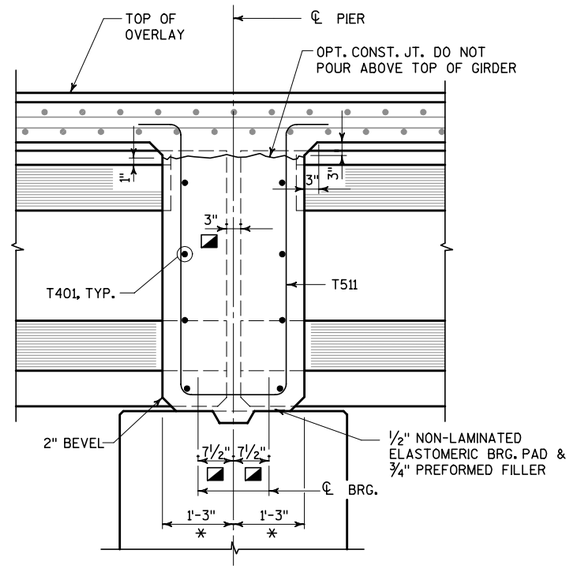
STATE PROJECT NUMBER

1060-05-75

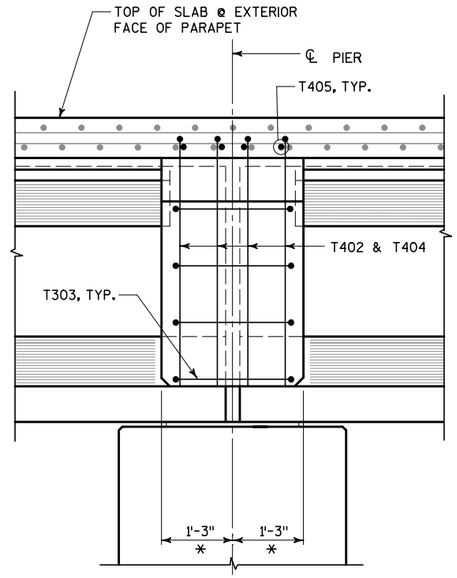


PART TRANSVERSE SECTION AT FIXED PIER DIAPHRAGM

SECTION APPLIES AT PIER P2-006

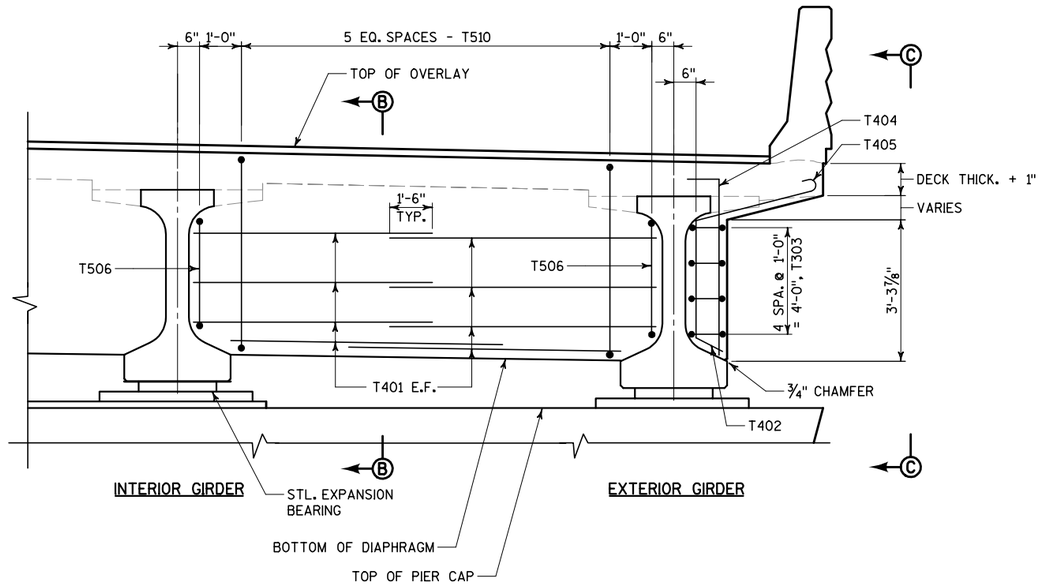


SECTION A-A



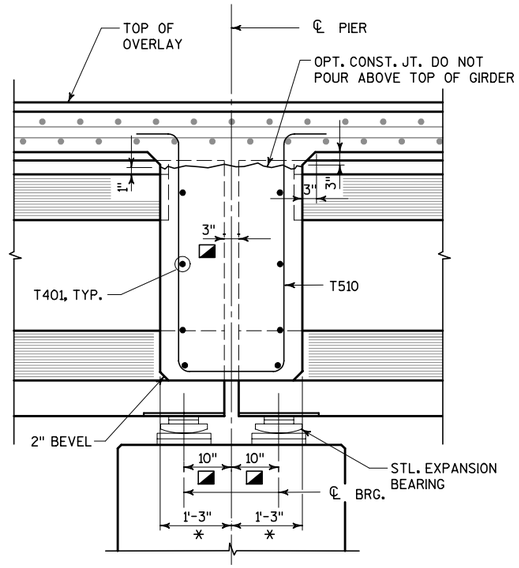
SECTION C-C

(FIXED DIAPHRAGM SHOWN, EXPANSION DIAPHRAGM SIMILAR)



PART TRANSVERSE SECTION AT EXPANSION PIER DIAPHRAGM

SECTION APPLIES AT PIER P1-006 AND PIER P3-006



SECTION B-B

LEGEND

* DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS.

◪ DIMENSION IS TAKEN PARALLEL TO ℄ GIRDER.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

CONST. SPEC.	2004	DRAWN BY	RWN	PLANS CK'D.	KES

SUPERSTRUCTURE DETAILS 1

SHEET 344 OF 396

3212

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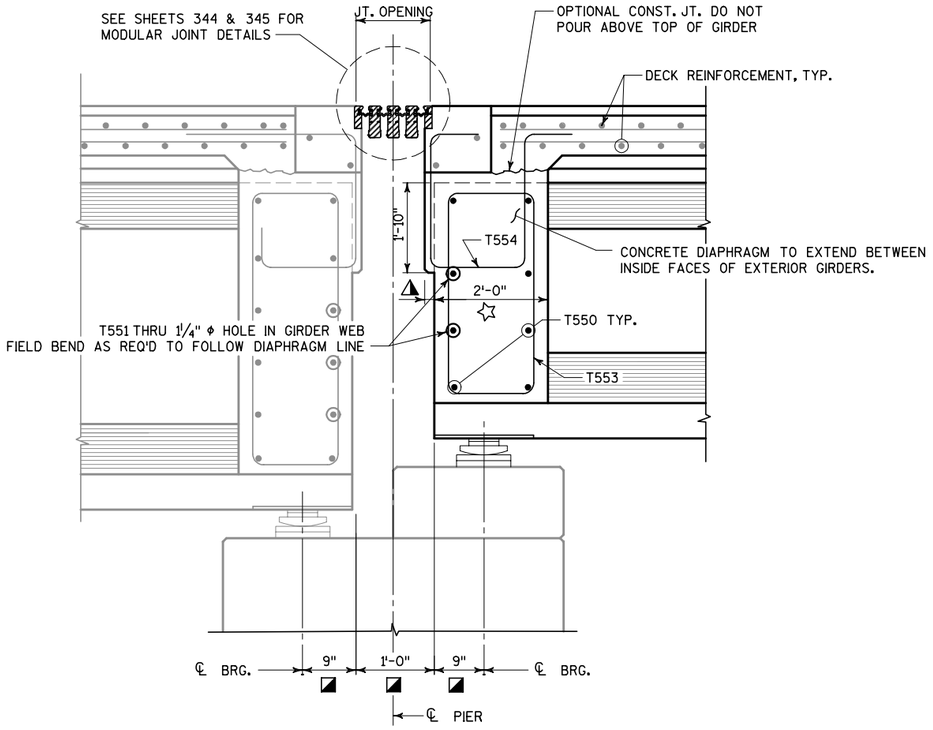
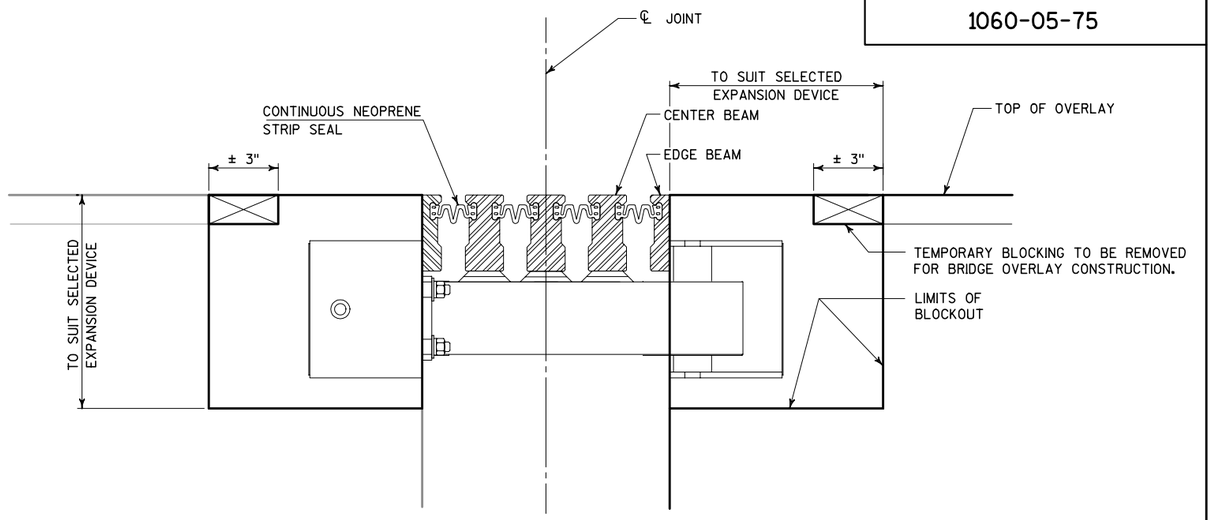
STATE PROJECT NUMBER

1060-05-75



SECTION B-B



TYPICAL SECTION THRU SUPPORT BOX

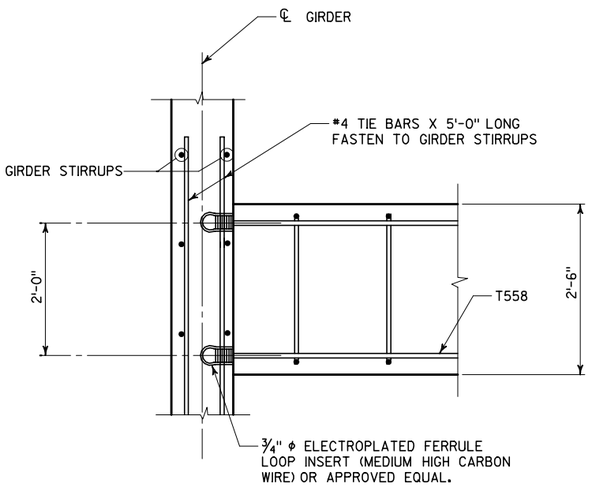
(NOT TO SCALE)

LEGEND

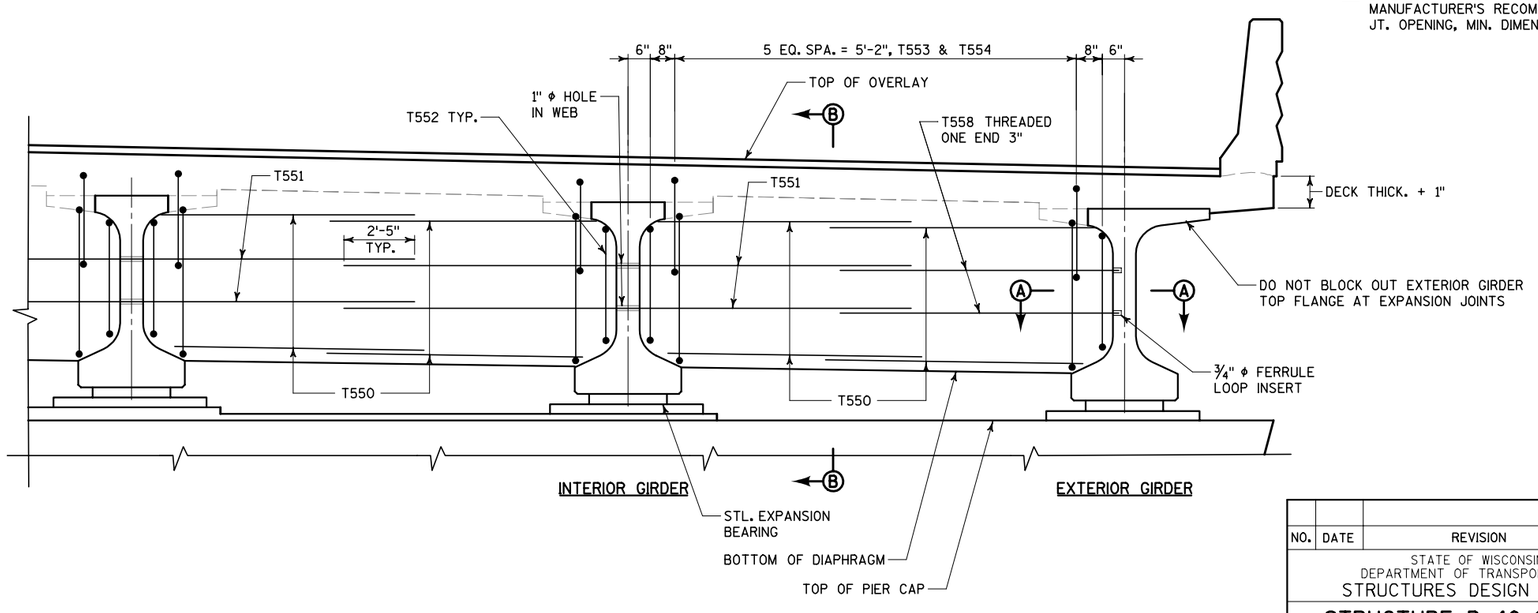
☆ DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS.

◪ DIMENSION IS TAKEN PARALLEL TO ℄ GIRDER.

⚠ DIMENSION VARIES BASED ON MANUFACTURER'S RECOMMENDED JT. OPENING, MIN. DIMENSION = 0"



SECTION A-A



PART TRANSVERSE SECTION AT MODULAR EXPANSION JT. DIAPHRAGM - PIER P6-002

BACK FACE REINFORCEMENT SHOWN - SEE SECTION B-B FOR FRONT FACE REINFORCEMENT

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

CONST. SPEC.	2004	DRAWN BY	RWN	PLANS CK'D.	KES

SUPERSTRUCTURE DETAILS 2

SHEET 345 OF 396

3213

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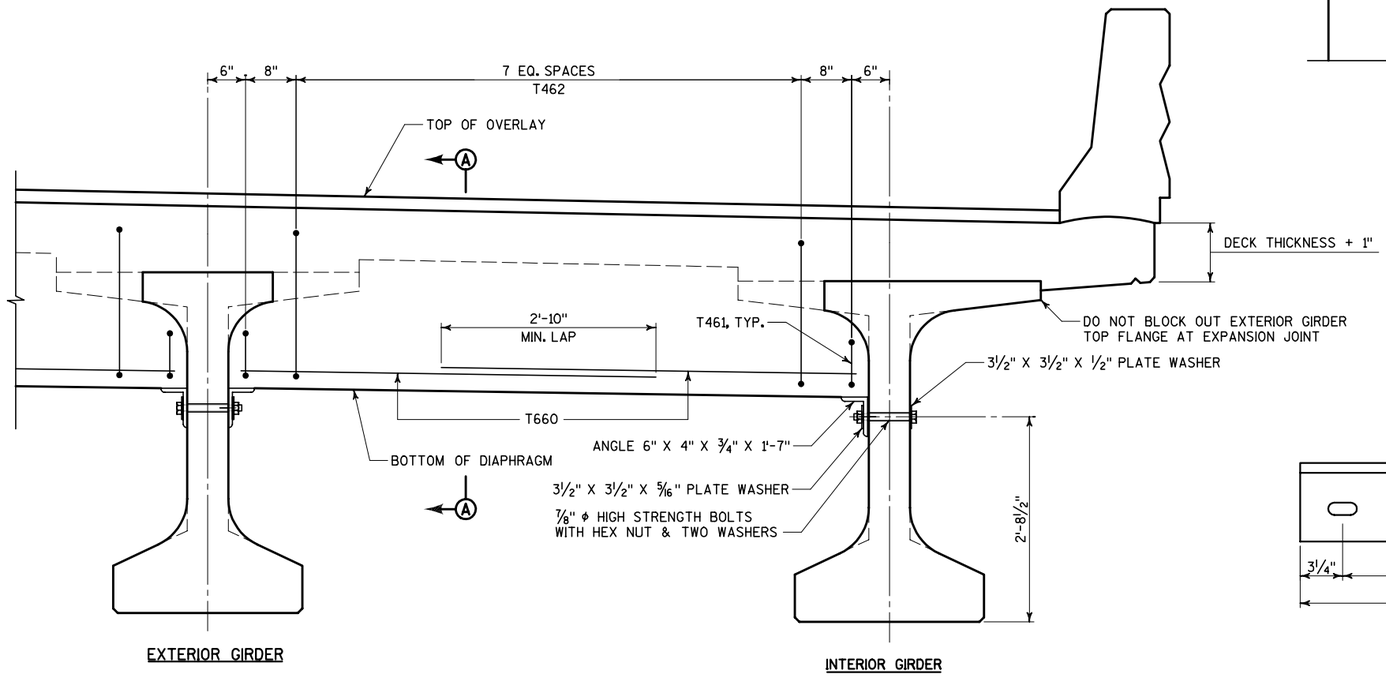
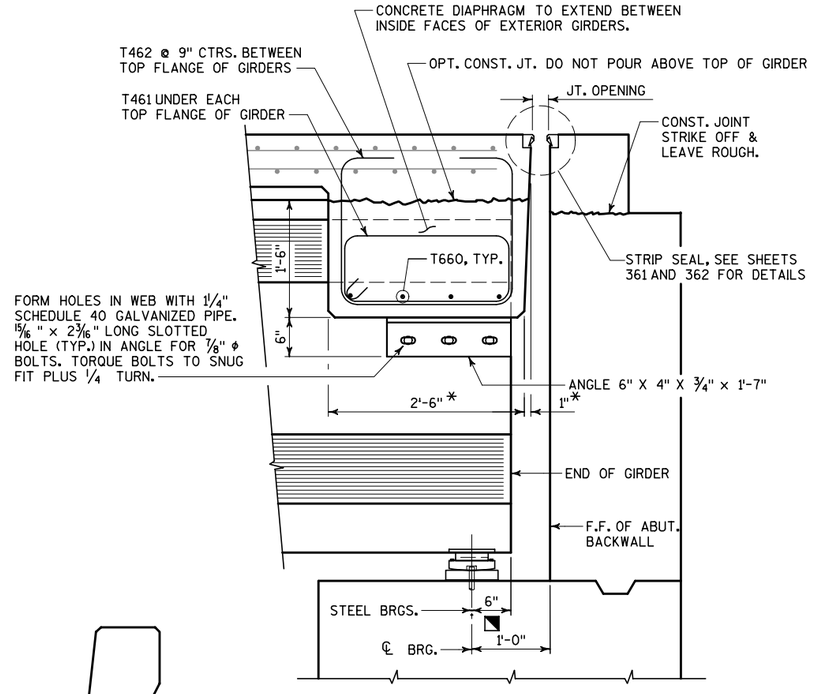
STATE PROJECT NUMBER
1060-05-75

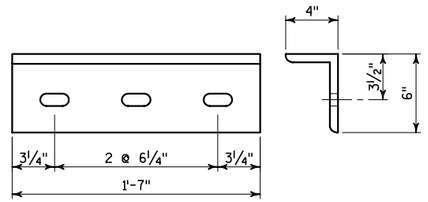


PART TRANSVERSE SECTION AT DIAPHRAGM - ABUTMENT A1-006



SECTION A-A

(ABUTMENT A1-006)



ANGLE

LEGEND

* DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS.

◥ DIMENSION IS TAKEN PARALLEL TO ℄ GIRDER.

NOTES

DIAPHRAGM SUPPORT ANGLES SHALL BE ASTM A709 GRADE 36. ALL BOLTS, NUTS AND WASHERS SHALL BE ASTM A325 TYPE 1.

ALL SUPPORT ANGLES SHALL BE HOT-DIPPED GALVANIZED. ALL BOLTS, NUTS AND WASHERS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C. GALVANIZED NUTS SHALL BE TAPPED OVERSIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A563 AND SHALL MEET THE REQUIREMENTS OF SUPPLEMENTARY REQUIREMENT S1 OF ASTM A563, LUBRICANT AND TEST FOR COATED NUTS.

ALL DIAPHRAGM SUPPORT HARDWARE SHALL BE INCIDENTAL TO PAY ITEM SPV.0035.2025 "HIGH PERFORMANCE CONCRETE (HPC) MASONRY SUPERSTRUCTURES".

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

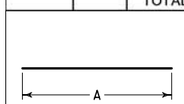
SUPERSTRUCTURE DETAILS 3

SHEET 346 OF 396

3214

8

BAR INFORMATION						BAR DIMENSIONS									
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J	LOCATION
S501	E	1524	5'-4''	8477	11	1'-9"	159°	2"	2'-0"	1'-0"	116°				STANDARD PARAPET DOWELS
S602	E	14	6'-6''	137	9	3'-3"	3'-3"	83°							LIGHT POLE BASE PARAPET DOWELS
S605	E	24	14'-9''	532	2	14'-0"									LIGHT POLE BASE EXTRA TRANSVERSE
S506	E	10	4'-6''	47	9	2'-3"	2'-3"	15°							LIGHT POLE BASE EXTRA DOWELS
S451	E	1524	29'-2''	29693	1	29'-2''									SLAB BOTTOM - TRANSVERSE
S452	E	396	40'-0''	10581	1	40'-0''									SLAB BOTTOM - LONGITUDINAL
S453	E	44	31'-10''	936	1	31'-10''									SLAB BOTTOM - LONGITUDINAL - SPAN 4
S454	E	88	38'-1''	2239	1	38'-1''									SLAB TOP - LONGITUDINAL
S655	E	44	53'-0''	3503	1	53'-0''									SLAB TOP - LONGITUDINAL - PIER 1
S707	E	44	36'-0''	3238	1	36'-0''									SLAB TOP - LONGITUDINAL - PIER 1
S657	E	44	18'-10''	1245	1	18'-10''									SLAB TOP - LONGITUDINAL - SPAN 2
S458	E	44	27'-4''	803	1	27'-4''									SLAB TOP - LONGITUDINAL - SPAN 2
S659	E	44	56'-0''	3701	1	56'-0''									SLAB TOP - LONGITUDINAL - PIER 2
S660	E	44	31'-0''	2049	1	31'-0''									SLAB TOP - LONGITUDINAL - PIER 2
S461	E	132	36'-5''	3211	1	36'-5''									SLAB TOP - LONGITUDINAL - SPAN 3 & 4
S662	E	44	14'-10''	980	1	14'-10''									SLAB TOP - LONGITUDINAL - SPAN 3
S763	E	44	52'-0''	4677	1	52'-0''									SLAB TOP - LONGITUDINAL - PIER 3
S764	E	44	31'-0''	2788	1	31'-0''									SLAB TOP - LONGITUDINAL - PIER 3
S691	E	12	20'-0''	360	1	20'-0''									SLAB - LONGITUDINAL AT DECK DRAINS
S694	E	56	10'-11''	918	8	5'-6"	5'-6"								SLAB - TRANSVERSE AT DECK DRAINS
S599	E	1515	6'-0''	9481	2	5'-6"									SLAB - TRANSVERSE AT EDGE OF DECK
T401	E	144	4'-1''	393	1	4'-1''									DIAPHRAGM - HORIZONTAL
T402	E	24	3'-3''	52	9	2'-8"	7"	65°							DIAPHRAGM - VERTICAL
T303	E	30	5'-9''	65	3	6½"	2'-1"								DIAPHRAGM - HORIZONTAL
T404	E	24	4'-7''	73	8	4'-0"	7"								DIAPHRAGM - VERTICAL
T405	E	24	2'-10''	45	2	2'-4"									DIAPHRAGM - VERTICAL
T506	E	18	9'-10''	185	3	2'-5"	2'-1"								DIAPHRAGM - VERTICAL
T510	E	12	12'-6''	156	6	4'-4"	2'-1"	1'-0"							DIAPHRAGM - VERTICAL - PIERS P1-006 & P3-006
T511	E	6	13'-7''	85	6	4'-11"	2'-1"	1'-0"							DIAPHRAGM - VERTICAL - PIERS P2-006
T550	E	22	4'-9"	109	1	4'-9"									MODULAR EXPANSION JT. DIAPH. - HORIZONTAL
T551	E	4	9'-11''	41	1	9'-11''									MODULAR EXPANSION JT. DIAPH. - HORIZONTAL
T552	E	6	10'-0''	63	3	3'-0"	1'-7"								MODULAR EXPANSION JT. DIAPH. - VERITCAL
T553	E	18	11'-11''	224	3	4'-0"	1'-7'								MODULAR EXPANSION JT. DIAPH. - VERTICAL
T554	E	18	8'-1''	152	27	0'-10"	2'-7"	1'-7"	0'-10"	90^					MODULAR EXPANSION JT. DIAPH. - VERTICAL
T558	E	6	5'-0''	31	1	5'-0"									MODULAR EXPANSION JT. DIAPH. - HORIZ. - THREADED
T660	E	24	5'-0''	180	1	5'-0"									DIAPHRAGM - HORIZONTAL - ABUTMENT
T461	E	6	6'-1''	24	3	0'-9"	2'-0"								DIAPHRAGM - VERTICAL - ABUTMENT
T462	E	24	6'-5''	103	34	2'-0"	2'-0"								DIAPHRAGM - VERTICAL - ABUTMENT
		TOTAL WEIGHT = 91580 LBS													



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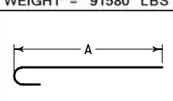

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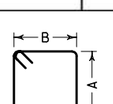

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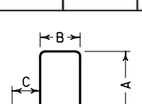

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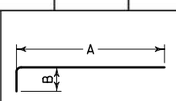

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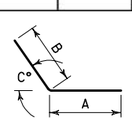
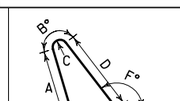
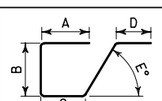


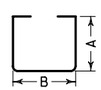
TYPE 9



TYPE 11



TYPE 27



TYPE 34

STATE PROJECT NUMBER

1060-05-75

NOTES:

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 & 4 FOR ADDITIONAL INFORMATION.

2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.

3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED

4. BAR SERIES ARE INDICATED BY A CUT LENGTH AND ONE DIMENSION THAT VARIES. SEE THE ACCOMPANYING BAR SERIES TABLE FOR SET COUNT AND BAR LENGTHS.

5. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.

6. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

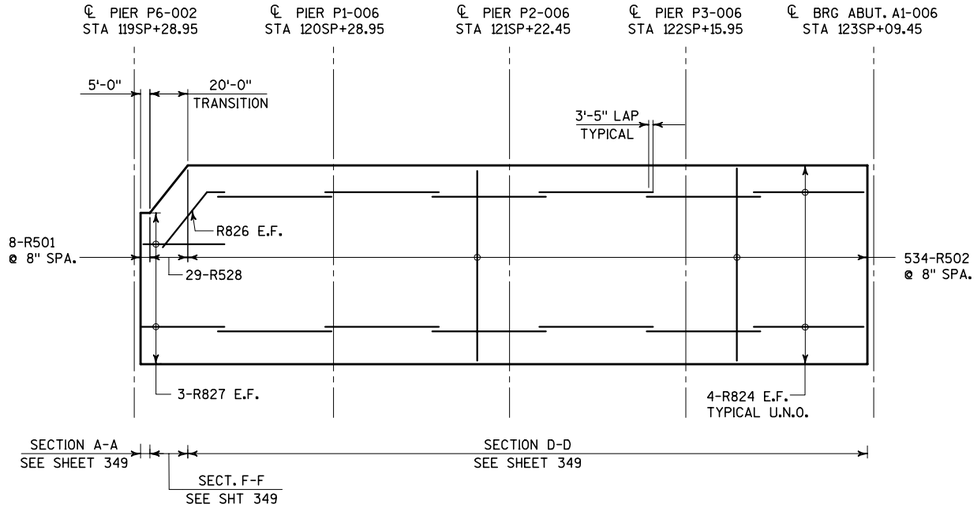
CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

SUPERSTRUCTURE REINF. SCHEDULE

SHEET 347 OF 396

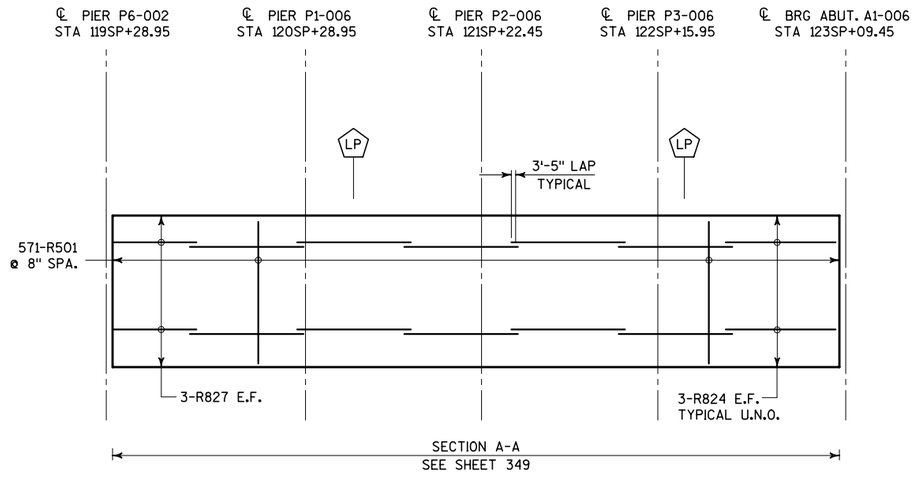
3215

STATE PROJECT NUMBER
1060-05-75



LEFT SIDE PARAPET ELEVATION

LOOKING LEFT AT TRAFFIC FACE
(NOT TO SCALE - SURFACE FEATURES NOT SHOWN)



RIGHT SIDE PARAPET ELEVATION

LOOKING LEFT AT EXTERIOR FACE
(NOT TO SCALE - SURFACE FEATURES NOT SHOWN)

LEGEND

- (LP) LIGHT POLE MOUNTING LOCATION. SEE SHEETS 373 TO 376.
- T.F. DENOTES BARS LOCATED ON 'TRAFFIC FACE' OF PARAPET.
- E.F. DENOTES BARS LOCATED ON BOTH FACES OF PARAPET ('EACH FACE').

NOTES

1. SEE SHEET 3 & 4 FOR GENERAL NOTES.
2. UNLESS INSTALLATION IS EXPLICITLY COVERED BY A SEPARATE PAY ITEM, INSTALLATION OF ALL EMBEDMENTS IS CONSIDERED INCIDENTAL TO PAY ITEM SPV.0090.2040 - PARAPET BRIDGE FREEWAY STRUCTURES.

   SUPPLY OF EMBEDMENTS IS INCLUDED UNDER OTHER PAY ITEMS - SEE QUANTITIES SHEETS.

   SUPPLY OF EXPANSION FITTINGS FOR CONDUIT IS CONSIDERED INCIDENTAL TO THE PAY ITEM FOR THE CONDUIT BEING CONNECTED.
3. ALL EXPOSED CONDUIT ENDS SHALL BE SUPPLIED WITH TEMPORARY WEATHERPROOF CAPS TO PREVENT INGRESS OF MOISTURE PRIOR TO LIGHT POLE OR SIGN BRIDGE INSTALLATION.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

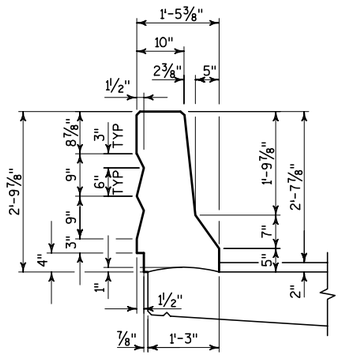
STRUCTURE B-40-1312 (006)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

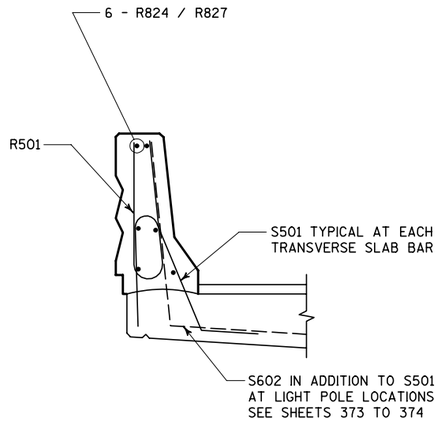
PARAPET ELEVATIONS

SHEET 348 OF 396
3216

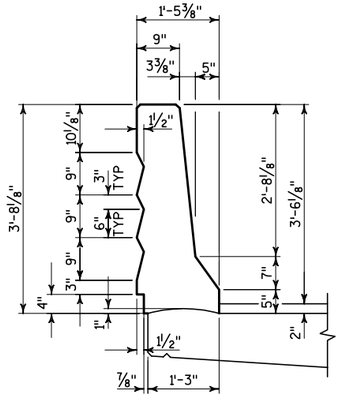
STATE PROJECT NUMBER
1060-05-75



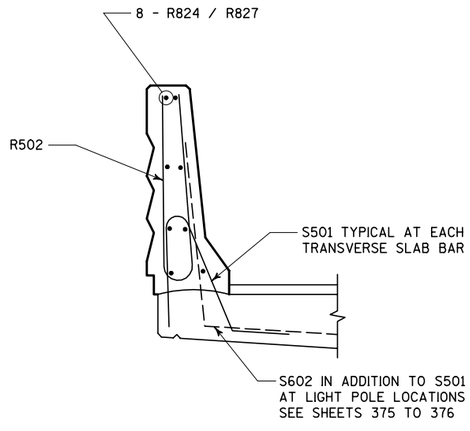
SECTION A-A
(SHOWING DIMENSIONS)



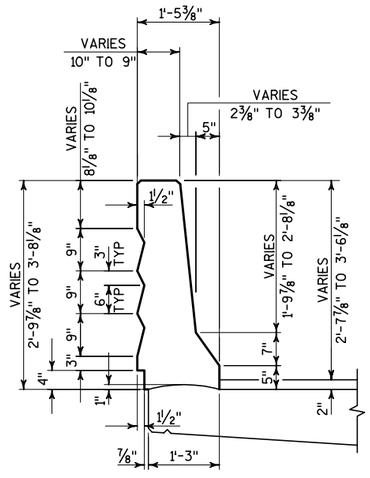
SECTION A-A
(SHOWING REINFORCEMENT)



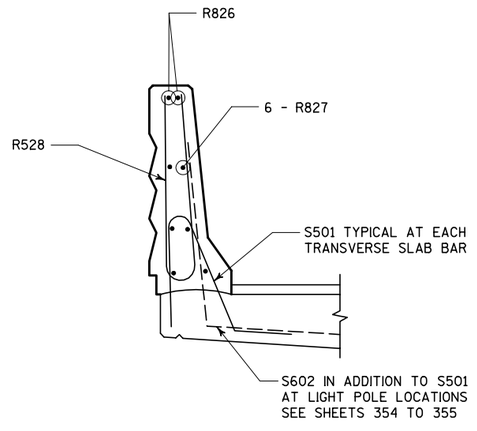
SECTION D-D
(SHOWING DIMENSIONS)



SECTION D-D
(SHOWING REINFORCEMENT)



SECTION F-F
(SHOWING DIMENSIONS)



SECTION F-F
(SHOWING REINFORCEMENT)

NOTES

1. SEE SHEET 3 & 4 FOR GENERAL NOTES.
2. UTILITY CONDUITS NOT SHOWN IN SECTIONS. SEE SHEET 350 FOR NUMBER, SIZE AND EXTENT OF CONDUITS REQUIRED.
3. INSTALLATION OF ALL EMBEDDED ITEMS IS CONSIDERED INCIDENTAL TO PAY ITEM SPV.0090.2040 - PARAPET BRIDGE (FREEWAY STRUCTURES).

   SUPPLY OF EMBEDDED ITEMS IS INCLUDED UNDER OTHER PAY ITEMS - SEE QUANTITIES SHEETS

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

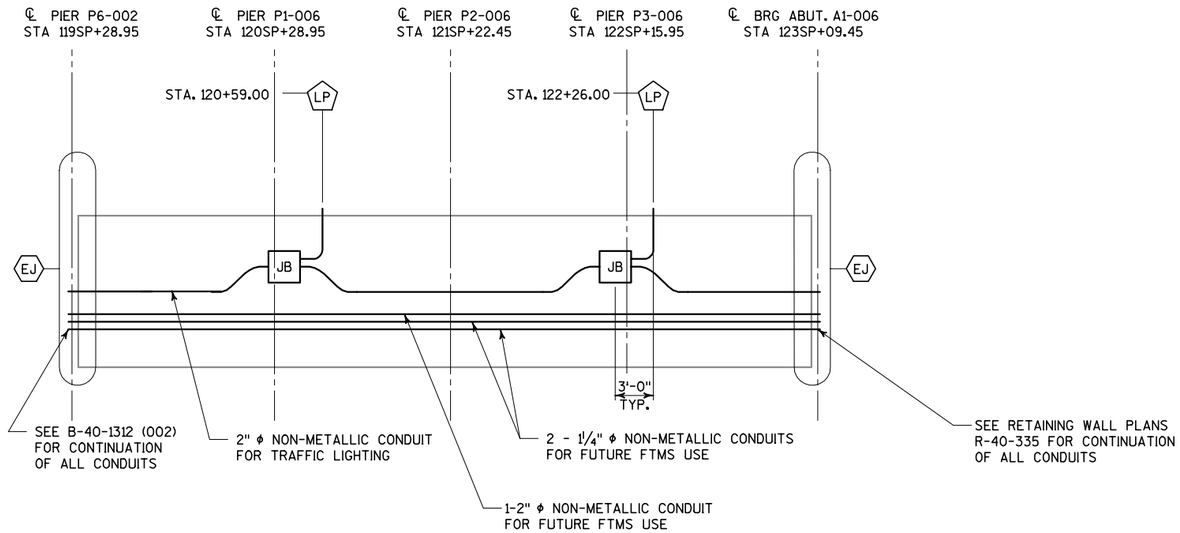
CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PARAPET SECTIONS

SHEET 349 OF 396

3217

STATE PROJECT NUMBER
1060-05-75



RIGHT SIDE PARAPET ELEVATION

LOOKING LEFT AT EXTERIOR FACE

(NOT TO SCALE - SURFACE FEATURES NOT SHOWN)

LEGEND

EJ — EXPANSION JOINT LOCATION. SEE SHEET 351 FOR DETAILS OF CONDUIT JOINTS REQUIRED IN THIS AREA (IF CONDUITS ARE PRESENT).

LP — LIGHT POLE MOUNTING LOCATION - INSTALLATION OF ANCHOR ASSEMBLY REQUIRED. SEE SHEETS 373 TO 376.

JB — JUNCTION BOX LOCATION - 14" X 8" X 6" TYPICAL. LOCATE ON TRAFFIC FACE OF BARRIER WITH TOP EDGE OF BOX 8" BELOW TOP OF PARAPET UNLESS OTHERWISE NOTED. RESPACE PARAPET REINFORCEMENT LOCALLY AS REQUIRED TO CLEAR.

NOTES

1. SEE SHEET 3 & 4 FOR GENERAL NOTES.
2. UNLESS INSTALLATION IS EXPLICITLY COVERED BY A SEPARATE PAY ITEM, INSTALLATION OF ALL EMBEDMENTS IS CONSIDERED INCIDENTAL TO PAY ITEM SPV.0090.2040 - PARAPET BRIDGE FREEWAY STRUCTURES.

   SUPPLY OF EMBEDMENTS IS INCLUDED UNDER OTHER PAY ITEMS - SEE QUANTITIES SHEETS.

   SUPPLY OF EXPANSION FITTINGS FOR CONDUIT IS CONSIDERED INCIDENTAL TO THE PAY ITEM FOR THE CONDUIT BEING CONNECTED.
3. ALL EXPOSED CONDUIT ENDS SHALL BE SUPPLIED WITH TEMPORARY WEATHERPROOF CAPS TO PREVENT INGRESS OF MOISTURE PRIOR TO LIGHT POLE OR SIGN BRIDGE INSTALLATION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	KGW	KES

PARAPET EMBEDDED WORK

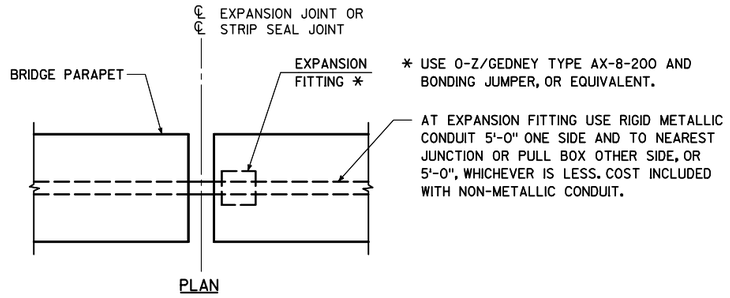
SHEET 350 OF 396

3218

8

FILE NAME: R:\Cbridges\1312\cds\1312-06C033D.dgn PEN TABLE: \\mtp\FinalDgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:45 Plotted by: emccrigh

STATE PROJECT NUMBER
1060-05-72



CONDUIT EXPANSION JOINT

NOTES

1. SEE SHEETS 3 & 4 FOR GENERAL NOTES.
2. UNLESS INSTALLATION IS EXPLICITLY COVERED BY A SEPARATE PAY ITEM, INSTALLATION OF ALL EMBEDMENTS IS CONSIDERED INCIDENTAL TO PAY ITEM SPV.0090.2040 - PARAPET BRIDGE FREEWAY STRUCTURES.

   SUPPLY OF EMBEDMENTS IS INCLUDED UNDER OTHER PAY ITEMS - SEE QUANTITIES SHEETS.

   SUPPLY OF EXPANSION FITTINGS FOR CONDUIT IS CONSIDERED INCIDENTAL TO THE PAY ITEM FOR THE CONDUIT BEING CONNECTED.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

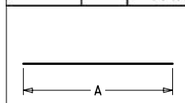
PARAPET DETAILS

SHEET 351 OF 396

3219

STATE PROJECT NUMBER
1060-05-75

BAR INFORMATION						BAR DIMENSIONS										
BAR MARK	COAT	NO. REQ'D	CUT LENGTH	TOTAL WT (LB)	BEND TYPE	A	B	C	D	E	F	G	H	J	LOCATION	REMARKS
PARAPET																
R501	E	579	5'-2"	3120	10	2'-2"	186°	3"							LF PARAPET HAIRPINS	
R502	E	534	6'-10"	3806	10	3'-0"	184°	3"							HF PARAPET HAIRPINS	
R824	E	84	60'-0"	13457	1	60'-0"									PARAPET HORIZONTAL	
R826	E	2	36'-8"	196	9	16'-3"	20'-6"	3"							PARAPET HORIZONTAL	
R827	E	12	41'-0"	1314	1	41'-0"									PARAPET HORIZONTAL	
LF PARAPET LIGHT POLE BASE																
R503	E	20	7'-1"	148	4	2'-6"	2'-3"								LIGHT POLE BASE VERTICAL TIES	
R504	E	12	6'-3"	78	4	2'-2"	2'-1"								LIGHT POLE BASE HORIZONTAL TIES	
R505	E	10	2'-5"	25	9	1'-3"	1'-3"	90°							LIGHT POLE BASE END FACE	
R506	E	12	7'-3"	91	4	2'-8"	2'-1"								LIGHT POLE BASE HORIZONTAL TIES	
		TOTAL WEIGHT =		22235	LBS											



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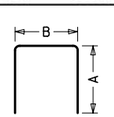

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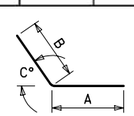

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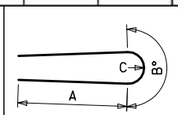


TYPE 10

NOTES

1. REINFORCEMENT SCHEDULES AND BREAKDOWNS ARE FOR INFORMATION ONLY. SEE GENERAL NOTES ON SHEET 3 & 4 FOR ADDITIONAL INFORMATION

2. THE FIRST ONE OR TWO DIGITS IN THE BAR MARK DENOTES THE BAR SIZE.

3. THE ENTRY IN THE 'COAT' COLUMN IS DEFINED AS FOLLOWS:
   BLANK = UNCOATED
   E = EPOXY COATED

4. ALL BENDS AND BAR EXTENSIONS ARE STANDARD AASHTO DIMENSIONS UNLESS OTHERWISE NOTED.

5. BARS ARE SYMMETRIC UNLESS OTHERWISE NOTED.

6. * DENOTES AVERAGE DIMENSIONS FOR BAR SERIES. SEE THE 'REMARKS' COLUMN FOR COMPLETE SERIES INFORMATION.

7. ALL REINFORCEMENT IN THIS TABLE IS INCLUDED UNDER PAY ITEMS SPV.0090.2040 AND SPV.0090.2045 - PARAPET BRIDGE TYPE LF AND HF.

   NO SEPARATE PAYMENT WILL BE MADE - QUANTITIES ARE PROVIDED FOR INFORMATION ONLY.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312 (006)

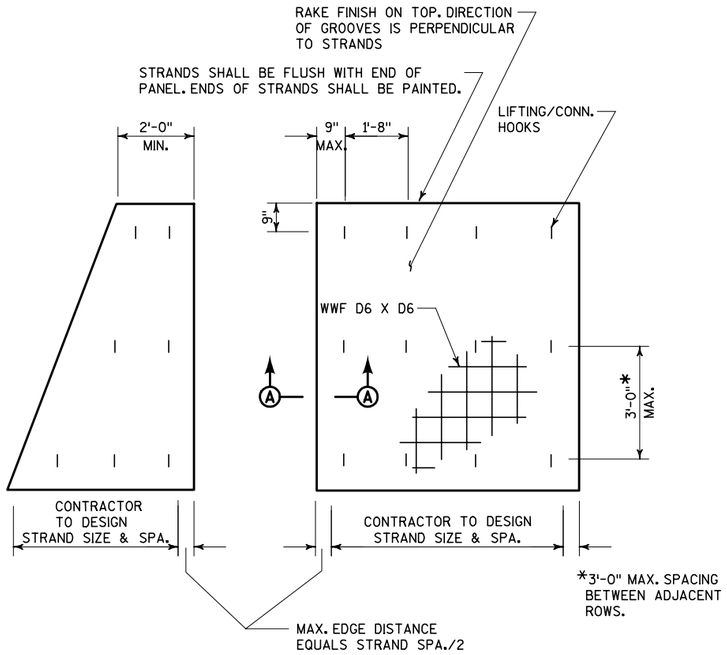
CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PARAPET REINFORCEMENT SCHEDULE

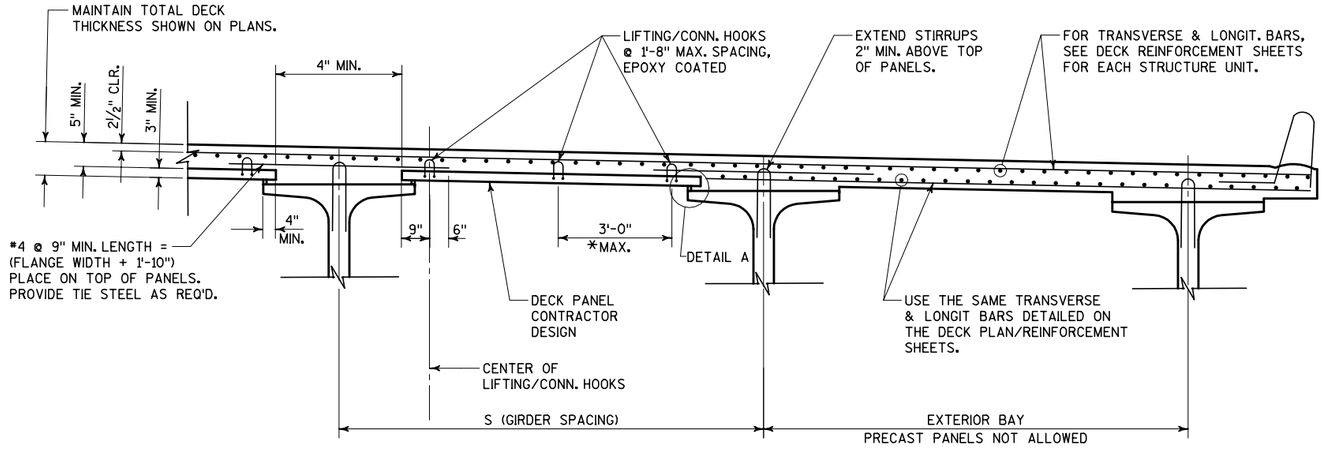
SHEET 352 OF 396

3220

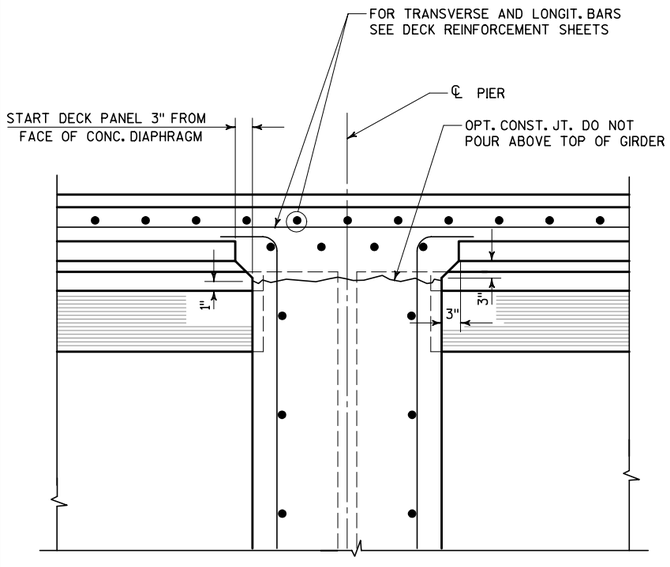
STATE PROJECT NUMBER
1060-05-75



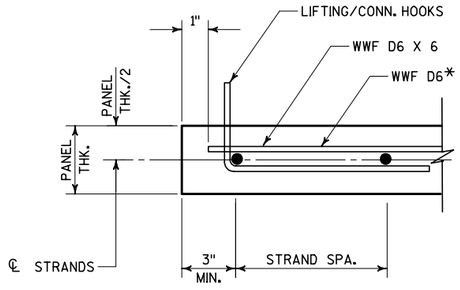
END SKEW DECK PANEL DECK PANEL



TRANSVERSE SECTION THRU SLAB ON GIRDERS WITH DECK PANELS

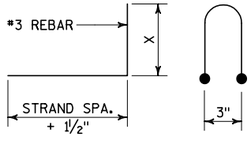


DIAPHRAGM DETAIL



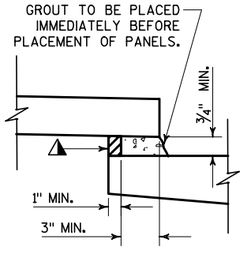
PART SECTION A-A

*BARS IN WWF WHICH ARE PARALLEL TO THE STRANDS MUST BE A MINIMUM OF 1" CLEAR FROM THE STRANDS.

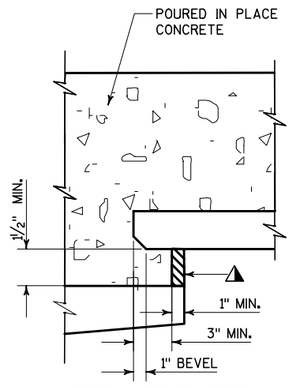


PANEL THK. (IN.)	X (IN.)
3, 3½	4½
4	5
4½, 5, 5½	5½

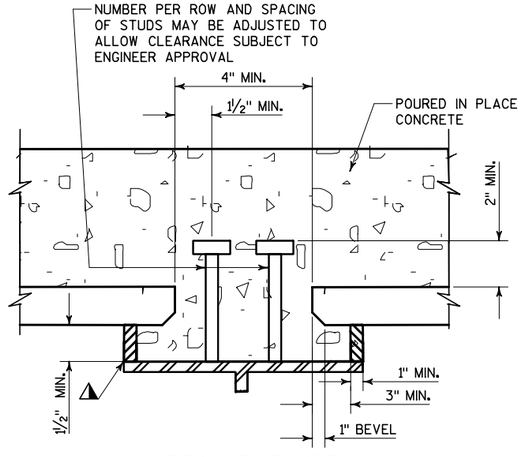
LIFTING/CONN. HOOK DETAIL



DETAIL A



ALTERNATIVE DETAIL A PRESTRESSED GIRDER



ALTERNATIVE DETAIL A STEEL GIRDER

NOTES

⚠ PANEL SUPPORTS TO BE HIGH DENSITY EXPANDED POLYSTYRENE GLUED TO THE TOP OF GIRDER OR NON-SHRINK GROUT.

1. PRECAST PANELS MAY NOT BE USED WITHIN 10' (PARALLEL DISTANCE) OF A MODULAR OR STRIP SEAL EXPANSION JOINT.
2. PRECAST PANELS ARE NOT ALLOWED AT ALL EXTERIOR BAYS.
3. PRECAST PANELS ARE NOT ALLOWED WITHIN 15'-0" (LONGITUDINAL) ON EITHER SIDE OF A DRAIN LOCATED AT INTERIOR BAY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	2004	DRAWN BY	DJS	PLANS CK'D.	KES

PRECAST DECK PANEL DETAILS

SHEET 353 OF 396

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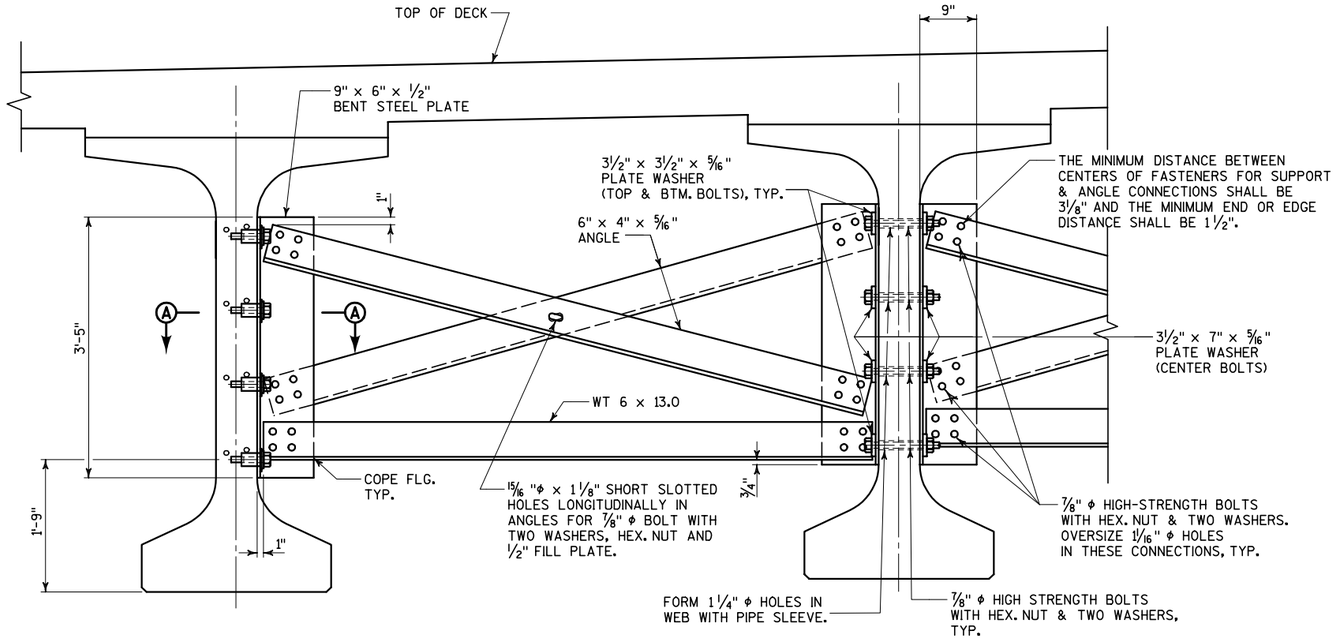
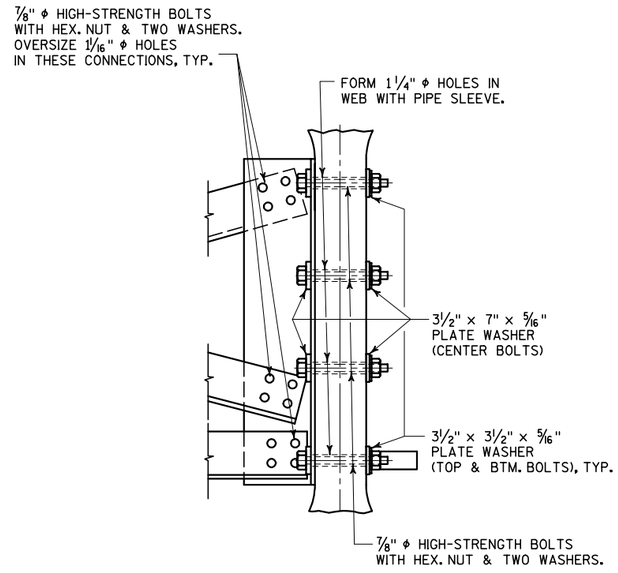
8

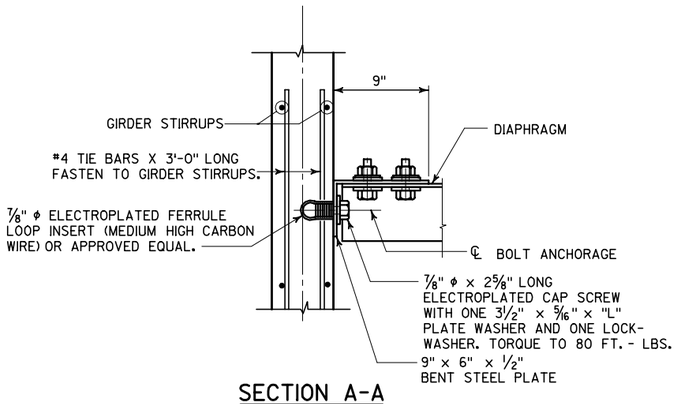
STATE PROJECT NUMBER
1060-05-75



PART TRANSVERSE SECTION AT DIAPHRAGM



SECTION AT INTERIOR GIRDERS (FOR STAGGERED DIAPHRAGMS)

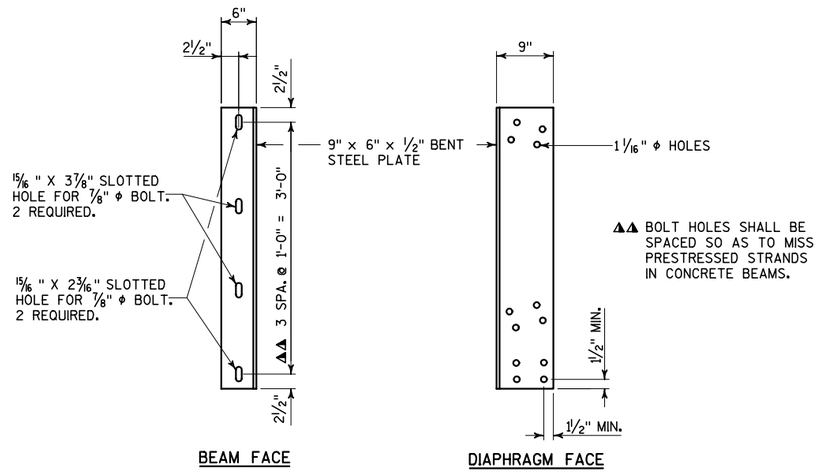


SECTION A-A

(FOR EXTERIOR ATTACHMENT)

"L" = 3 1/2" ; TOP & BOTTOM BOLTS

"L" = 7" ; CENTER BOLTS



DIAPHRAGM SUPPORT

NOTES

ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGM, STRUCTURE B-40-1312", EACH.

EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36. ALL BOLTS, NUTS AND WASHERS SHALL BE ASTM A325 TYPE 1.

ALL DIAPHRAGM STRUCTURAL STEEL SHOWN SHALL BE HOT-DIPPED GALVANIZED. ALL BOLTS, NUTS AND WASHERS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C. GALVANIZED NUTS SHALL BE TAPPED OVERSIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A563 AND SHALL MEET THE REQUIREMENTS OF SUPPLEMENTARY REQUIREMENT S1 OF ASTM A563, LUBRICANT AND TEST FOR COATED NUTS.

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

72W" STEEL DIAPHRAGM DETAILS

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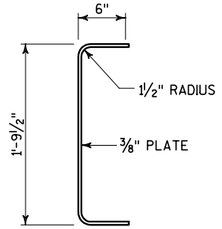
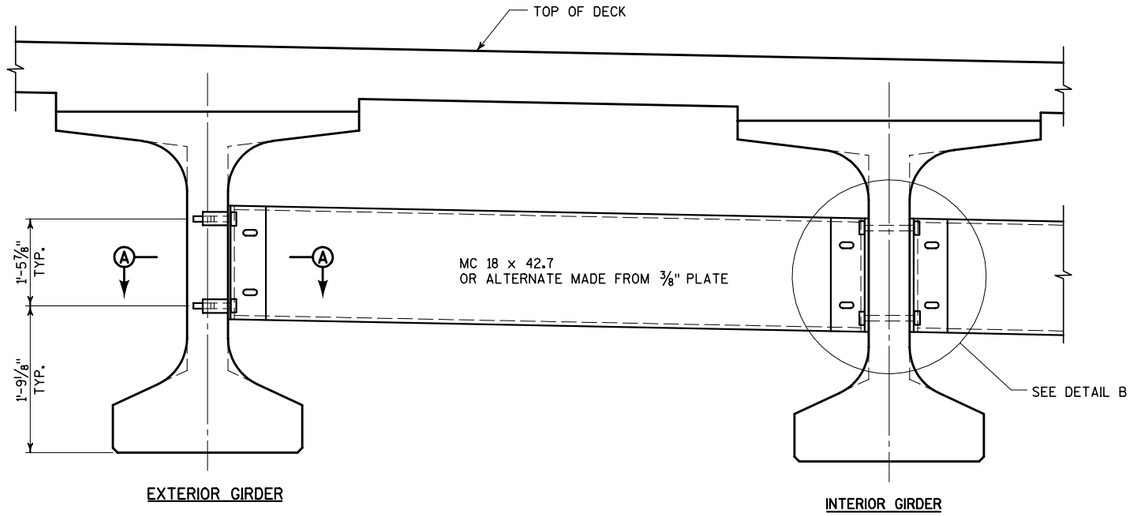
STATE PROJECT NUMBER
1060-05-75



SECTION THRU ALTERNATE DIAPHRAGM



PART TRANSVERSE SECTION AT DIAPHRAGM

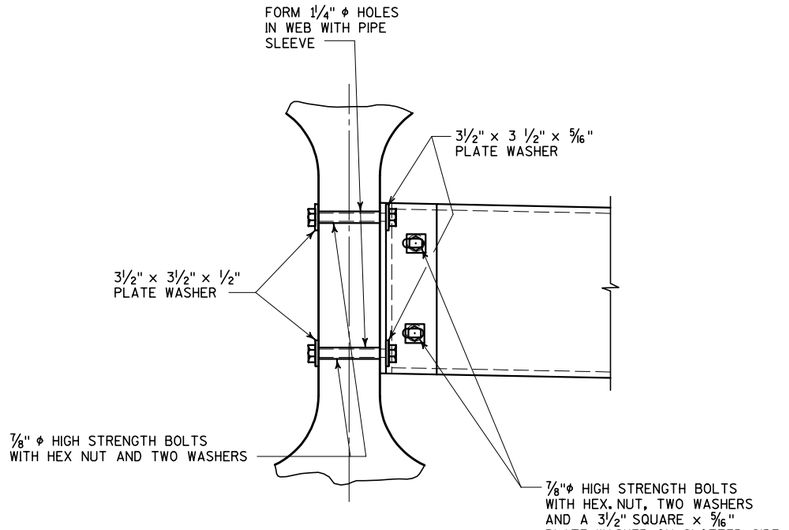
NOTES

ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGM, STRUCTURE B-40-1312", EACH.

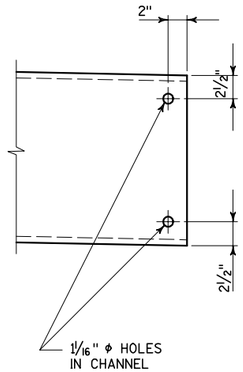
EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

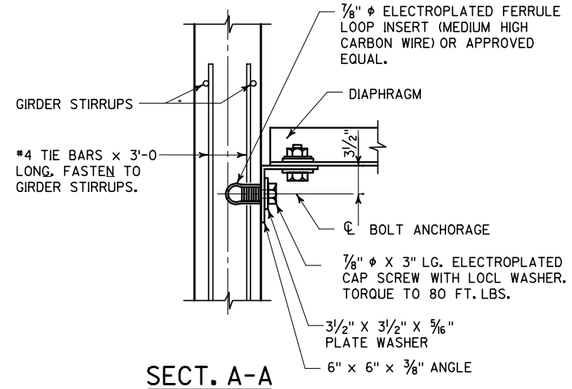
ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36. ALL BOLTS, NUTS AND WASHERS SHALL BE ASTM A325 TYPE 1.

ALL DIAPHRAGM STRUCTURAL STEEL SHOWN SHALL BE HOT-DIPPED GALVANIZED. ALL BOLTS, NUTS AND WASHERS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C. GALVANIZED NUTS SHALL BE TAPPED OVERSIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A563 AND SHALL MEET THE REQUIREMENTS OF SUPPLEMENTARY REQUIREMENT S1 OF ASTM A563, LUBRICANT AND TEST FOR COATED NUTS.



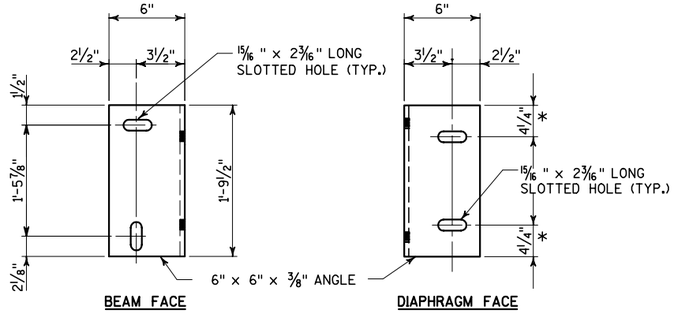
DETAIL B





SECT. A-A

(FOR EXTERIOR ATTACHMENT)



DIAPHRAGM SUPPORT

* 2½" FOR ALTERNATE PLATE DIAPHRAGM.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

54"W STEEL DIAPHRAGM DETAILS

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STATE PROJECT NUMBER

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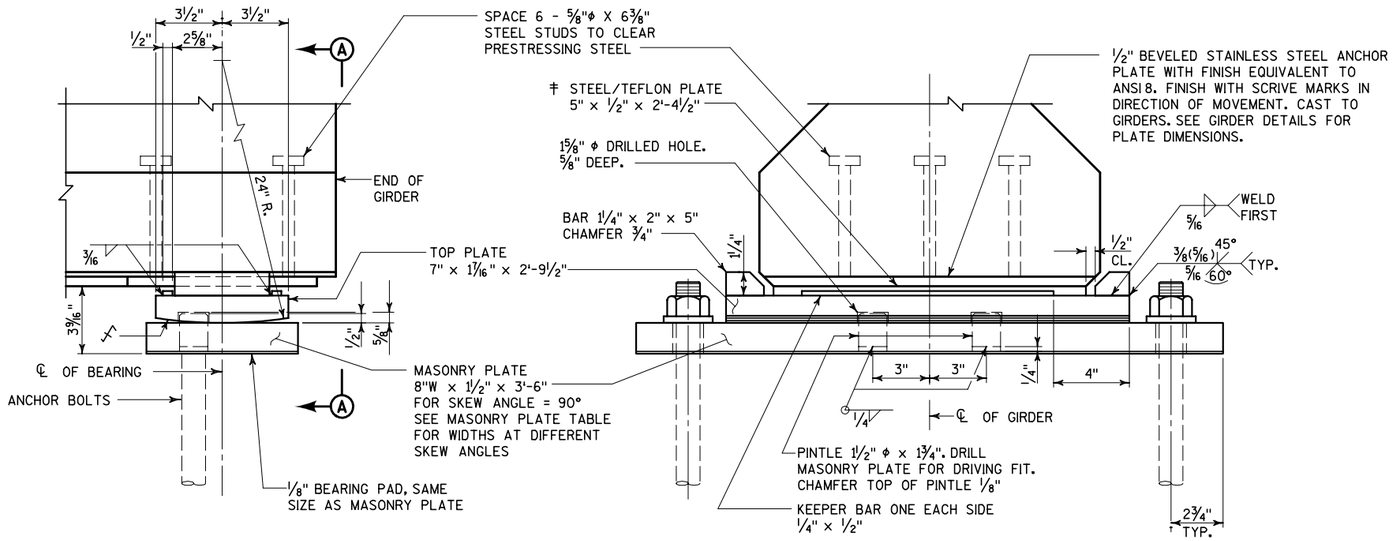


EXPANSION BEARING

SECTION A-A

NOTES

ALL BEARINGS ARE SYMMETRICAL ABOUT ℄ OF GIRDER AND ℄ OF BEARING.

ALL MATERIAL INCLUDING SHIMS, BUT EXCLUDING STAINLESS STEEL PLATE, TEFLON SURFACE, PINTLES, ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A709 GRADE 50W.

STAINLESS STEEL PLATE SHALL CONFORM TO A.S.T.M. A240, TYPE 304.

STEEL PINTLES SHALL CONFORM TO ASTM A449 OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION.

FABRICATOR MAY INCREASE "MASONRY PLATE" THICKNESS AS AN ALTERNATE TO SHIMS.

ALL STRUCTURAL STEEL BEARING PLATES SHALL BE FLAT ROLLED STEEL PLATES WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT, AND VERTICAL.

ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

ALL SURFACES MARKED ✓ SHALL BE MACHINE FINISHED ANSI 250 UNLESS OTHERWISE SHOWN.

ALL FINISHED SURFACES SHALL BE MACHINE FINISHED BY AN AUTOMATIC PROCESS.

ALL ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A709 GRADE 36, OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION.

CHAMFER ANCHOR BOLTS PRIOR TO THREADING.

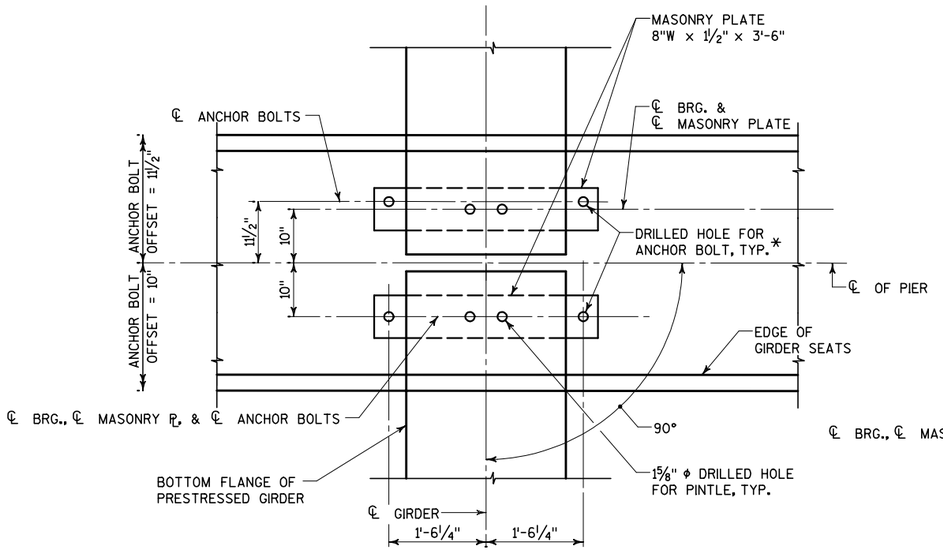
MASONRY PLATE, TOP PLATE, KEEPER BARS, ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AS REQUIRED BY ASTM DESIGNATION A153, CLASS "C". STEEL PLATE ATTACHED TO TEFLON SURFACE SHALL BE SHOP PAINTED.

ANCHOR BOLTS SHALL BE THREADED 3". PROVIDE ONE STANDARD WROUGHT WASHER AND ONE HEX NUT PER BOLT. PROJECT ANCHOR BOLTS "MASONRY PLATE" THICKNESS +2¼" ABOVE TOP OF CONCRETE.

ALL MATERIALS IN "STEEL BEARINGS FOR PRESTRESSED CONCRETE GIRDERS", INCLUDING SHIMS, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR EITHER "EXPANSION BEARING ASSEMBLIES, EACH" OR "FIXED BEARING ASSEMBLIES, EACH".

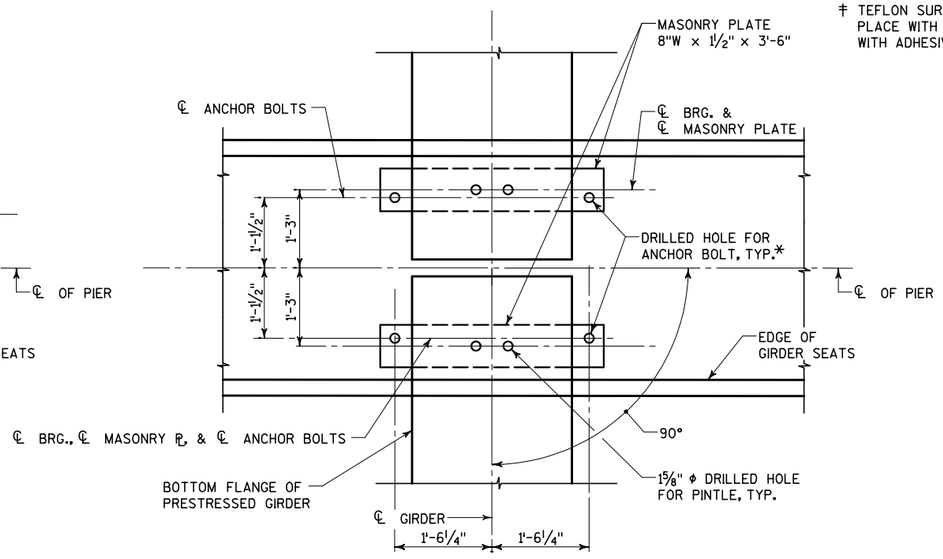
* ALL ANCHOR BOLTS ARE 1½" DIAMETER. DRILLED HOLES FOR ANCHOR BOLTS SHALL HAVE A DIAMETER OF 1⅞".

‡ TEFLON SURFACE, USE UNFILLED SHEETS, DIMPLED AND LUBRICATED (MIN. ⅛" THICKNESS). PLACE WITH SCRIBE MARKS IN DIRECTION OF MOVEMENT. BOND STEEL AND TEFLON WITH ADHESIVE MATERIAL MEETING FED. SPEC. MMM-A-134, FEP FILM OR EQUAL.



EXPANSION BEARING MASONRY PLATE DETAIL

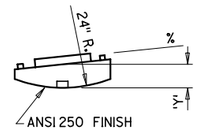
(STD. 90° SKEW, SEE PIER PLANS FOR BOLT OFFSET DIMENSIONS)



MASONRY PLATE DETAIL @ MODULAR EXPANSION JOINT

(STD. 90° SKEW, SEE PIER PLANS FOR BOLT OFFSET DIMENSIONS)

BEVELED PLATE TABLE				
UNIT	PIER	PIER CAP SIDE	'Y'	%
006	P3-006	DOWNSTATION	1⅜"	3.24%
006	P3-006	UPSTATION	1⅝"	4.55%
006	A1-006	DOWNSTATION	1⅝"	4.78%



BEVELED TOP PLATE DETAIL

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC. 2004 | DRAWN BY EKM | PLANS CK'D. KES

PRESTRESSED GIRDER BEARINGS 1

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FILE NAME: R:\C\bridges\1312\cds\1312-99C004D.dgn PEN TABLE: \\mtp\FindlDgn\config\plot\pentbls\bridge.pen Date: 04-MAY-2005 16:36 Plotted by: emccrigh

STATE PROJECT NUMBER
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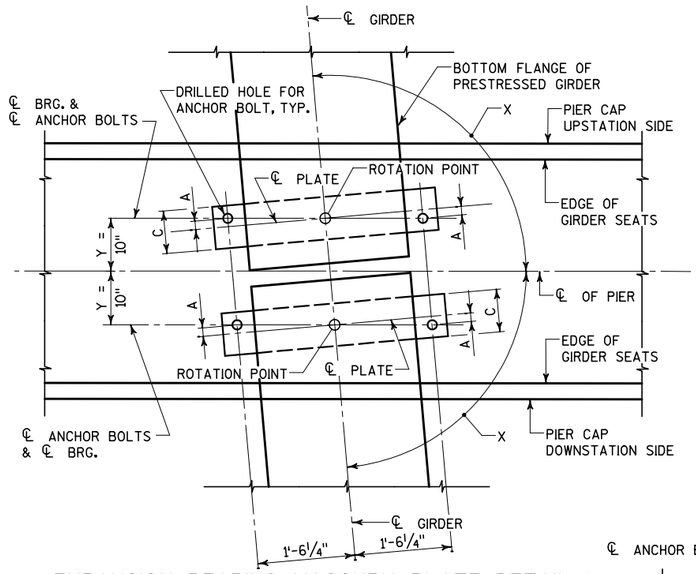
MASONRY PLATE DIMENSION TABLE

B-40-1312 UNIT 001								
PIER NO.	GIRDER	X	Y	PIER CAP SIDE	DETAIL	A	B	C
P2-001	1 - 6	94°55'43.6"	10"	UP STATION	1	1 9/16"	---	8 1/2"
P2-001	7	98°05'24.6"	10"	UPSTATION	1	2 5/8"	---	10 1/2"
P2-001	8	101°09'31.4"	10"	UPSTATION	1	3 5/8"	---	12 1/2"
P2-001	1 - 6	85°04'16.4"	10"	DOWNSTATION	1	1 9/16"	---	8 1/2"
P2-001	7	80°54'23.6"	10"	DOWNSTATION	1	2 15/16"	---	11"
P2-001	8	76°09'20.0"	10"	DOWNSTATION	1	4 1/2"	---	14"
P2-001	9	69°58'04.0"	10"	DOWNSTATION	4	2 1/4"	1 1/2"	10"
P3-001	1	93°27'55.4"	10"	UPSTATION	1	1 1/8"	---	8"
P3-001	2	93°30'41.4"	10"	UPSTATION	1	1 1/8"	---	8"
P3-001	3	93°33'27.4"	10"	UPSTATION	1	1 1/8"	---	8"
P3-001	4	93°36'13.3"	10"	UPSTATION	1	1 1/8"	---	8"
P3-001	5	93°38'59.6"	10"	UPSTATION	1	1 3/16"	---	8"
P3-001	6	93°41'45.6"	10"	UPSTATION	1	1 3/16"	---	8"
P3-001	7	93°44'31.6"	10"	UPSTATION	1	1 3/16"	---	8"
P3-001	1 - 6	85°03'41.9"	10"	DOWNSTATION	1	1 9/16"	---	8 1/2"
P3-001	7	81°54'35.3"	10"	DOWNSTATION	1	2 5/8"	---	10 1/2"
P3-001	8	78°50'28.7"	10"	DOWNSTATION	1	3 5/8"	---	12 1/2"
P4-001	1	91°42'17.0"	10"	UPSTATION	1	9/16"	---	8"
P4-001	2	91°42'31.0"	10"	UPSTATION	1	9/16"	---	8"
P4-001	3	91°42'45.0"	10"	UPSTATION	1	9/16"	---	8"
P4-001	4	91°42'59.0"	10"	UPSTATION	1	9/16"	---	8"
P4-001	5	91°43'13.0"	10"	UPSTATION	1	9/16"	---	8"
P4-001	6	91°43'27.0"	10"	UPSTATION	1	9/16"	---	8"
P4-001	7	91°43'41.0"	10"	UPSTATION	1	9/16"	---	8"
P4-001	1	86°32'05.0"	10"	DOWNSTATION	1	1 1/8"	---	8"
P4-001	2	86°29'19.0"	10"	DOWNSTATION	1	1 1/8"	---	8"
P4-001	3	86°26'33.0"	10"	DOWNSTATION	1	1 1/8"	---	8"
P4-001	4	86°23'47.0"	10"	DOWNSTATION	1	1 1/8"	---	8"
P4-001	5	86°21'01.0"	10"	DOWNSTATION	1	1 3/16"	---	8"
P4-001	6	86°18'15.0"	10"	DOWNSTATION	1	1 3/16"	---	8"
P4-001	7	86°15'28.0"	10"	DOWNSTATION	1	1 3/16"	---	8"
P7-001	1 - 7	70°00'00.0"	9 3/8"	UPSTATION	5	2 1/4"	1 1/2"	10"
P7-001	1 - 7	110°00'00.0"	9 3/8"	DOWNSTATION	5	2 1/4"	1 1/2"	10"
P8-001	6 - 7	91°52'09.0"	10"	UPSTATION	1	5/8"	---	8"
P9-001	6	91°51'49.7"	11 1/2"	UPSTATION	2	2 1/8"	15/16"	9 1/2"
P9-001	6 - 7	88°07'51.0"	11 1/2"	DOWNSTATION	2	2 1/8"	7/8"	9 1/2"
P10-001	6	88°08'10.3"	13 1/2"	DOWNSTATION	6	2 1/8"	15/16"	9 1/2"

B-40-1312 UNIT 002								
PIER NO.	GIRDER	X	Y	PIER CAP SIDE	DETAIL	A	B	C
P1-002	10 - 11	91°14'43.3"	11 1/2"	UPSTATION	2	1 7/8"	1 1/8"	9"
P1-002	9	88°48'06.5"	11 1/2"	DOWNSTATION	2	1 7/8"	1 1/8"	9"
P1-002	10 - 11	87°36'45.0"	11 1/2"	DOWNSTATION	2	2 1/4"	3/4"	9 1/2"

B-40-1312 UNIT 004								
PIER NO.	GIRDER	X	Y	PIER CAP SIDE	DETAIL	A	B	C
P1-004	1 - 7	89°58'13.4"	13 1/2"	DOWNSTATION	6	1 1/2"	1 1/2"	8"



EXPANSION BEARING MASONRY PLATE DETAIL 1

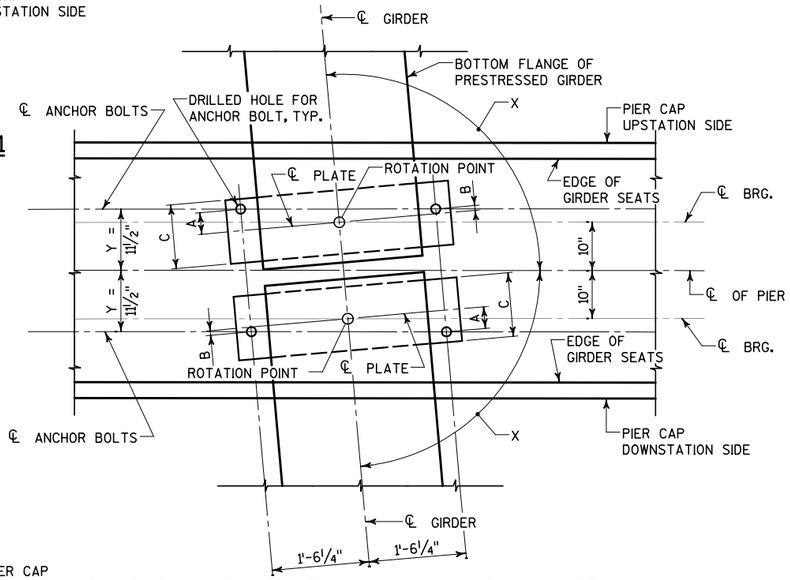
UPSTATION BEARING ROTATION ANGLE X > 90°
DOWNSTATION BEARING ROTATION ANGLE X < 90°

PINTLES NOT SHOWN IN EXPANSION BEARING MASONRY PLATE DETAILS. SEE DETAILS ON SHEET 356 FOR PINTLE LOCATIONS.

NOTES

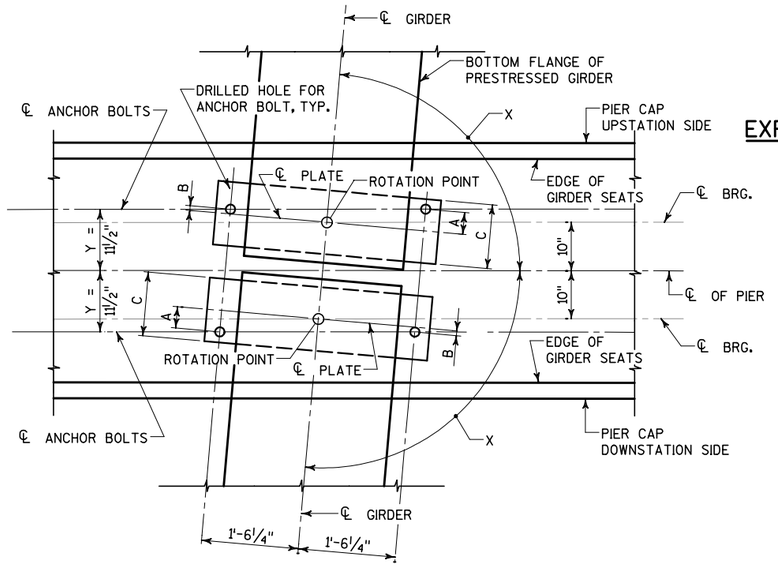
SEE SHEET 356 FOR PRESTRESSED GIRDER BEARING DETAILS.

SEE SHEET 358 FOR EXPANSION BEARING MASONRY PLATE DETAILS 4, 5, & 6.



EXPANSION BEARING MASONRY PLATE DETAIL 2

UPSTATION BEARING ROTATION ANGLE X > 90°
DOWNSTATION BEARING ROTATION ANGLE X < 90°



EXPANSION BEARING MASONRY PLATE DETAIL 3

UPSTATION BEARING ROTATION ANGLE X < 90°
DOWNSTATION BEARING ROTATION ANGLE X > 90°

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

PRESTRESSED GIRDER BEARINGS 2

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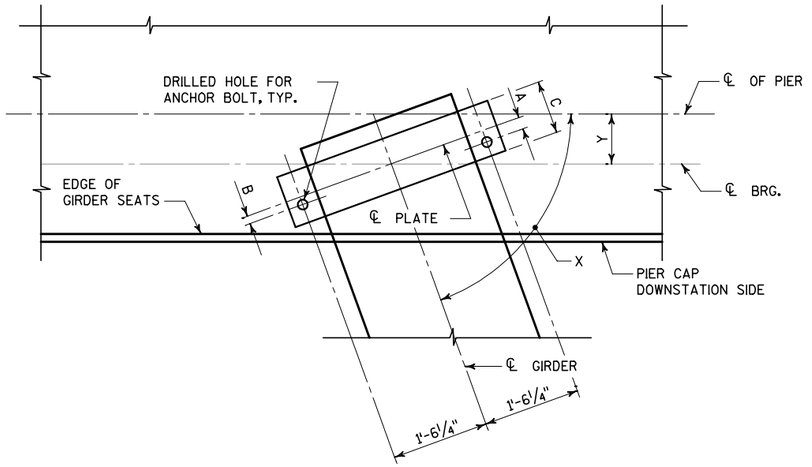
STATE PROJECT NUMBER
1060-05-75

MASONRY PLATE DIMENSION TABLE

B-40-1312 UNIT 005								
PIER NO.	GIRDER	X	Y	PIER CAP SIDE	DETAIL	A	B	C
P2-005	1 - 2	81°49'08.3"	11 1/2"	UPSTATION	3	4 1/8"	-1 1/8"	16 1/2"
P2-005	3	83°43'39.1"	11 1/2"	UPSTATION	3	3 1/2"	-1/2"	14"
P2-005	4 - 5	83°41'15.7"	11 1/2"	UPSTATION	3	3 1/2"	-1/2"	14"
P2-005	1 - 2	91°24'24.4"	11 1/2"	DOWNSTATION	3	1 15/16"	1 1/16"	8"
P2-005	3	89°37'40.5"	11 1/2"	DOWNSTATION	2	1 5/8"	1 3/8"	8"
P2-005	4	87°49'06.0"	11 1/2"	DOWNSTATION	2	2 3/16"	13/16"	9"
P2-005	5 - 6	85°58'49.1"	11 1/2"	DOWNSTATION	2	2 13/16"	1/4"	11 1/2"
P3-005	1 - 2	83°23'37.7"	11 1/2"	UPSTATION	3	3 5/8"	-5/8"	14 1/2"
P3-005	3	84°27'23.5"	11 1/2"	UPSTATION	3	3 1/4"	-1/4"	13"
P3-005	4 - 5	85°32'16.0"	11 1/2"	UPSTATION	3	2 15/16"	1/16"	12"
P3-005	1 - 2	89°33'21.8"	11 1/2"	DOWNSTATION	2	1 5/8"	1 3/8"	8"
P3-005	3	87°35'50.9"	11 1/2"	DOWNSTATION	2	2 1/4"	3/4"	9"
P3-005	4 - 5	85°41'14.3"	11 1/2"	DOWNSTATION	2	2 7/8"	1/8"	11 1/2"
P8-005	1 - 4	92°17'26.2"	11 1/2"	UPSTATION	2	2 1/4"	3/4"	9"
P8-005	1 - 4	87°42'33.8"	11 1/2"	DOWNSTATION	2	2 1/4"	3/4"	9"
P9-005	9	91°11'53.6"	13 1/2"	UPSTATION	6	1 7/8"	1 1/8"	8"
P9-005	10 - 11	92°23'15.0"	13 1/2"	UPSTATION	6	2 1/4"	3/4"	9"
P9-005	1 - 4	87°42'33.8"	13 1/2"	DOWNSTATION	6	2 1/4"	3/4"	9"
B-40-1312 UNIT 006								
PIER NO.	GIRDER	X	Y	PIER CAP SIDE	DETAIL	A	B	C
P1-006	1 - 4	84°46'14.6"	11 1/2"	UPSTATION	3	3 3/16"	-3/16"	13"
P1-006	1 - 4	87°44'20.6"	11 1/2"	DOWNSTATION	2	2 1/4"	3/4"	9"
P3-006	1 - 4	84°44'40.0"	11 1/2"	UPSTATION	3	3 3/16"	-3/16"	13"
P3-006	1 - 4	87°44'29.2"	11 1/2"	DOWNSTATION	2	2 1/4"	13/16"	9"

NEGATIVE DIMENSION INDICATES THAT CENTER OF ANCHOR BOLT HOLE IS LOCATED ON OPPOSITE SIDE OF ℄ BRG. PLATE AS SHOWN IN THE REFERENCED MASONRY PLATE DETAIL.



EXPANSION BEARING MASONRY PLATE DETAIL 4

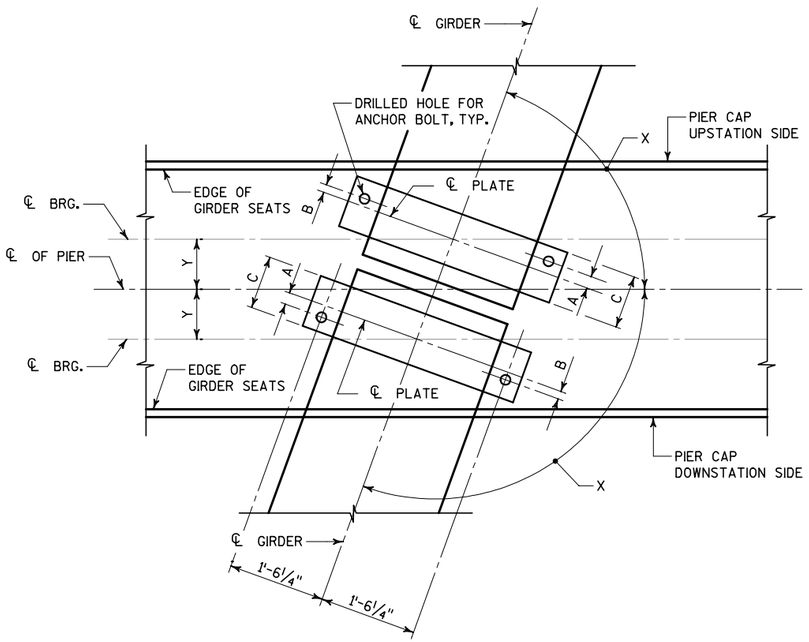
DOWNSTATION BEARING ROTATION ANGLE X < 90°

PINTLES NOT SHOWN IN EXPANSION BEARING MASONRY PLATE DETAILS. SEE DETAILS ON SHEET 356 FOR PINTLE LOCATIONS.

NOTES

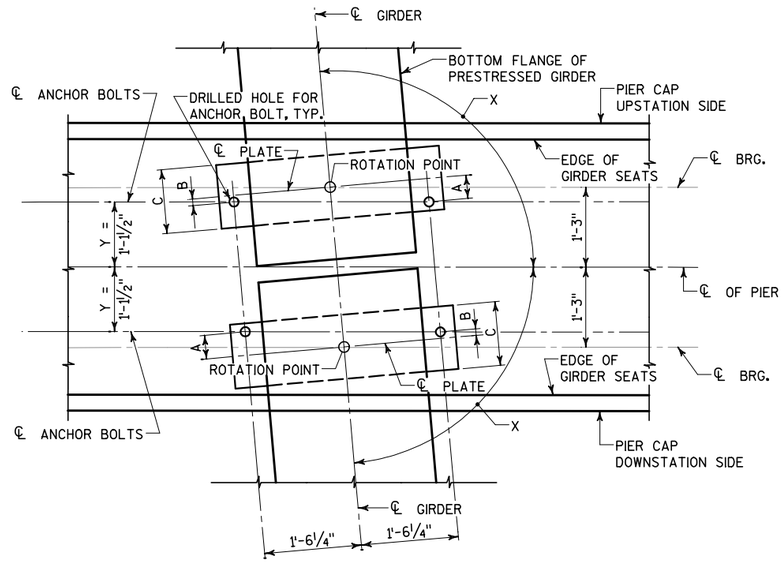
SEE SHEET 356 FOR PRESTRESSED GIRDER BEARING DETAILS.

SEE SHEET 357 FOR EXPANSION BEARING MASONRY PLATE DETAILS 1, 2, & 3.



EXPANSION BEARING MASONRY PLATE DETAIL 5

UPSTATION BEARING ROTATION ANGLE X < 90°
DOWNSTATION BEARING ROTATION ANGLE X > 90°



EXPANSION BEARING MASONRY PLATE DETAIL 6

EXPANSION BEARINGS AT MODULAR JOINTS.

NO.	DATE	REVISION	BY

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STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

PRESTRESSED GIRDER BEARINGS 3

SHEET 358 OF 396

3226

8

STATE PROJECT NUMBER

1060-05-75

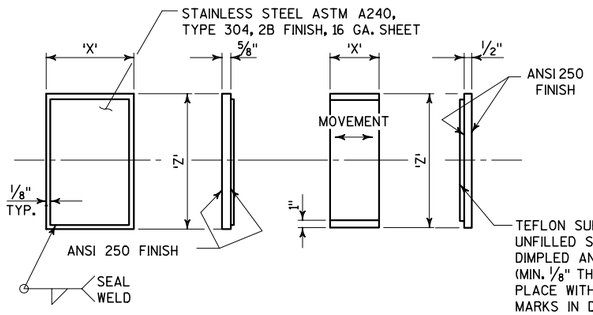


PLATE "A"

PLATE "B"

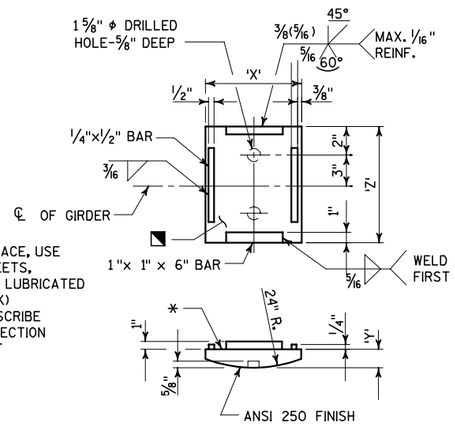


PLATE "C"

EXPANSION BEARING

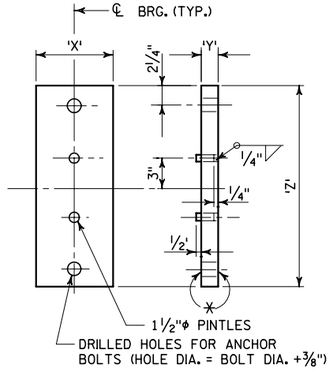
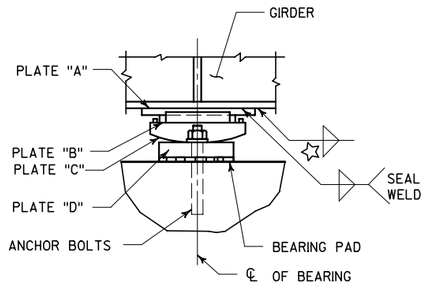


PLATE "D"



EXPANSION BEARING ASSEMBLY

	PLATE "A"		PLATE "B"		PLATE "C"			PLATE "D"			ANCHOR BOLT SIZE	NO. OF BRG'S REQ'D.	LOCATION
	'X'	'Z'	'X'	'Z'	'X'	'Y'	'Z'	'X'	'Y'	'Z'			
EXPANSION BEARING	11"	1'-6"	7"	1'-6"	9"	1 11/16 "	1'-8 1/4"	8"	1 1/2"	2'-4"	1 1/2"ϕ	12	P1-004 & P4-004
	1'-9"	1'-6"	1'-5"	1'-6"	1'-7"	3 7/8"	1'-8 1/4"	1'-4"	2 7/8"	2'-5"	1 1/2"ϕ	6	P2-004
FIXED BEARING						2 3/8"	1'-6"	1'-2"	2 3/8"	2'-4"	1 1/2"ϕ	6	P3-004

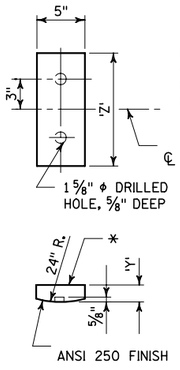
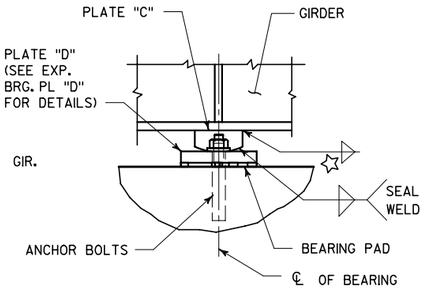


PLATE "C"



FIXED BEARING ASSEMBLY

FIXED BEARING

BEARING NOTES

ALL BEARINGS ARE SYMMETRICAL ABOUT ℄ OF GIRDER AND ℄ OF BEARINGS.

ALL STRUCTURAL STEEL BEARING PLATES SHALL BE FLAT ROLLED STEEL PLATES WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL.

ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

ALL FINISHED SURFACES SHALL BE MACHINE FINISHED BY AN AUTOMATIC PROCESS.

CHAMFER ANCHOR BOLTS PRIOR TO THREADING. ANCHOR BOLTS SHALL BE THREADED 3". PROVIDE ONE STANDARD WROUGHT WASHER AND ONE HEX NUT PER BOLT. BOLT LENGTH TO BE 1'-5 FOR 1¼" ϕ AND 1'-10 FOR 1½" ϕ BOLTS. PROJECT ANCHOR BOLTS "D" PLATE THICKNESS +2¼" ABOVE TOP OF CONCRETE.

CHAMFER TOP OF PINTLES ⅛". DRILL HOLES FOR PINTLES IN ALL "D" PLATES FOR DRIVING FIT.

ALL MATERIAL INCLUDING SHIMS BUT EXCLUDING ANCHOR BOLTS, STAINLESS STEEL, TEFLON SURFACE, PINTLES, NUTS AND STEEL WASHERS SHALL BE MADE OF ASTM A709 GRADE 50W. STEEL PINTLES SHALL BE MADE OF ASTM A449 STEEL OR MATERIAL OF EQUAL YIELD STRENGTH & ELONGATION. ANCHOR BOLTS, NUTS & WASHERS SHALL CONFORM TO ASTMA709 GRADE 36 OR MATERIAL OF EQUIV. STRENGTH & ELONGATION.

PROVIDE ⅛" THICK BEARING PAD SAME SIZE AS PLATE "D" FOR EACH BEARING.

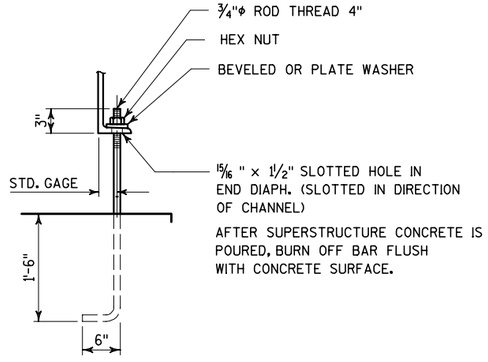
ALL MATERIAL IN BEARINGS, INCLUDING BEARING PADS & SHIM PLATES SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "EXPANSION BEARING ASSEMBLIES" OR "FIXED BEARING ASSEMBLIES" RESPECTIVELY.

ANCHOR BOLTS, NUTS & WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C.

ALL SURFACES OF BEARING PLATES, EXCEPT STAINLESS STEEL & TEFLON SURFACES SHALL BE BE PAINTED AFTER GALVANIZING WITH A TIE COAT. INTERMEDIATE COAT & TOP COAT. FOR UNPAINTED STRUCURES, BEARING PLATE WELDED TO THE GIRDER NEED NOT BE PAINTED.

* FINISH THESE SURFACES ANSI 250 FINISH IF 'Y' DIM. IS GREATER THAN 2".

◥ PROVIDE A METHOD FOR HANDLING PLATE "C" DURING GALVANIZING.



TEMPORARY HOLD DOWN

PLACE ONE PER GIRDER AT PIER WHERE SLAB POUR TERMINATES. LOCATE 1'-6 (NORMAL) OFF ℄ OF GIRDER. TO BE PAID FOR AS "STRUCTURAL CARBON STEEL".

TABLE OF FILLET WELD SIZES

☆ THICKNESS OF THICKER PART JOINED	∓ MIN. SIZE OF FILLET WELD
TO ½" INCLUSIVE	3/16"
OVER ½" TO ¾"	¼"
OVER ¾" TO 1½"	5/16"
OVER 1½" TO 2 ¼"	3/8"
OVER 2 ¼" TO 6"	½"

∓ EXCEPT THAT WELD SIZE SHALL NOT EXCEED THICKNESS OF THINNER PART JOINED.

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PLATE GIRDER BEARINGS

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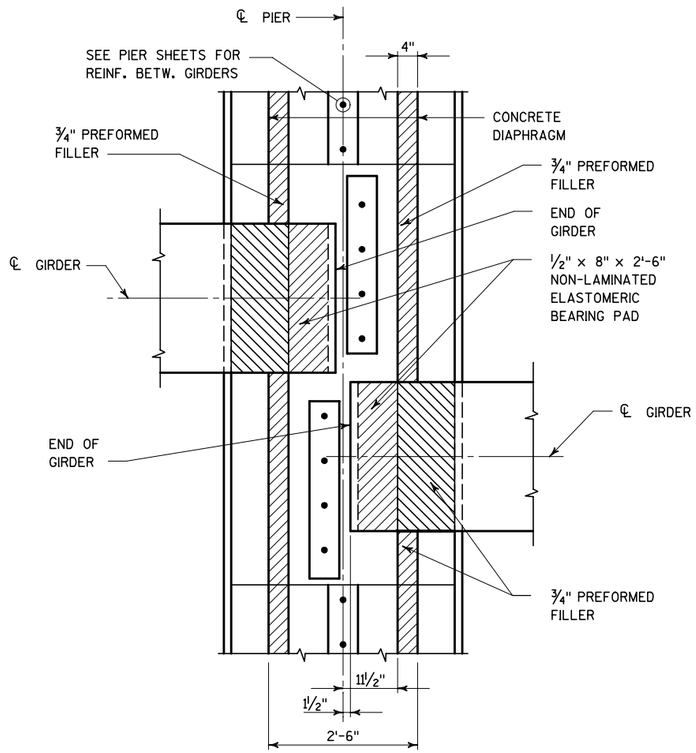
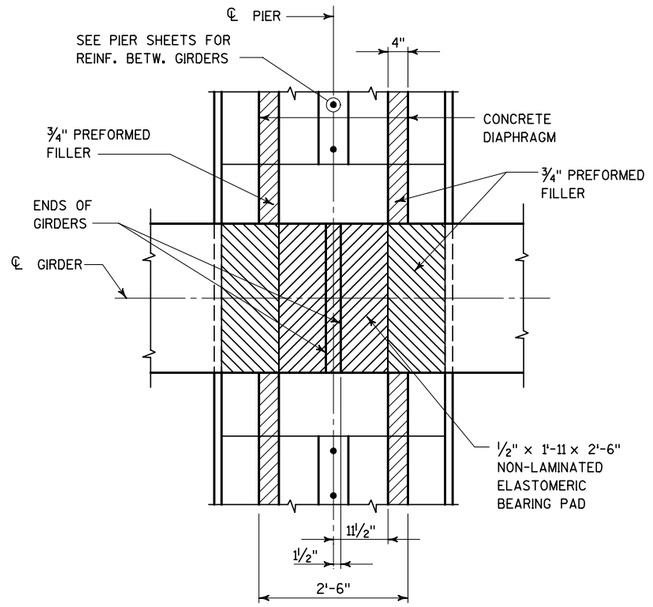


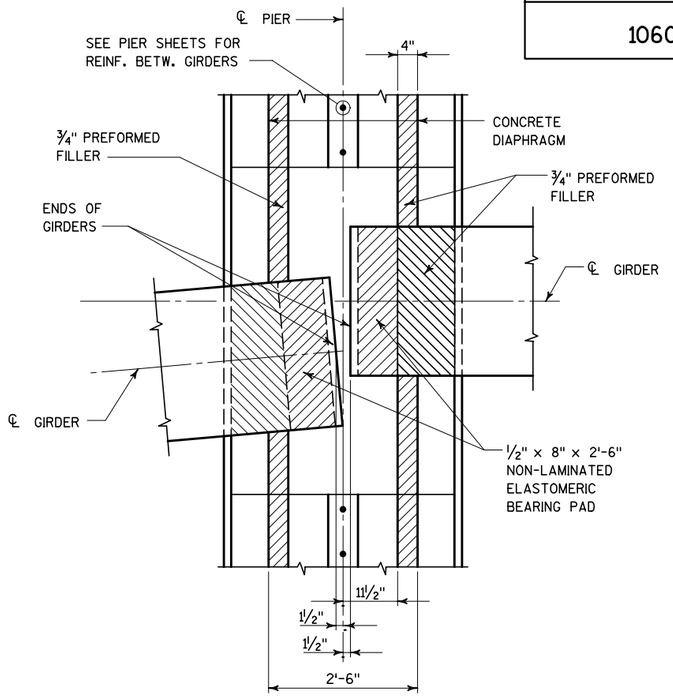
BEARING PAD DETAIL AT FIXED PIER

(0° SKEW)

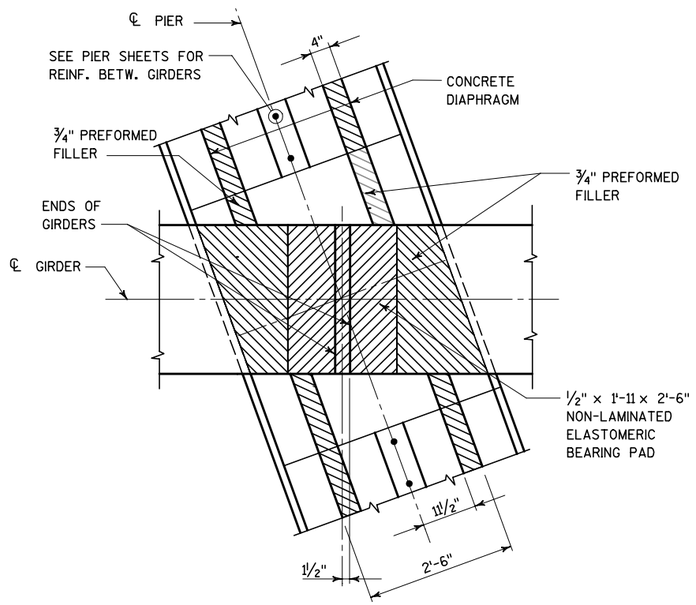


BEARING PAD DETAIL AT FIXED PIER

(0° SKEW)

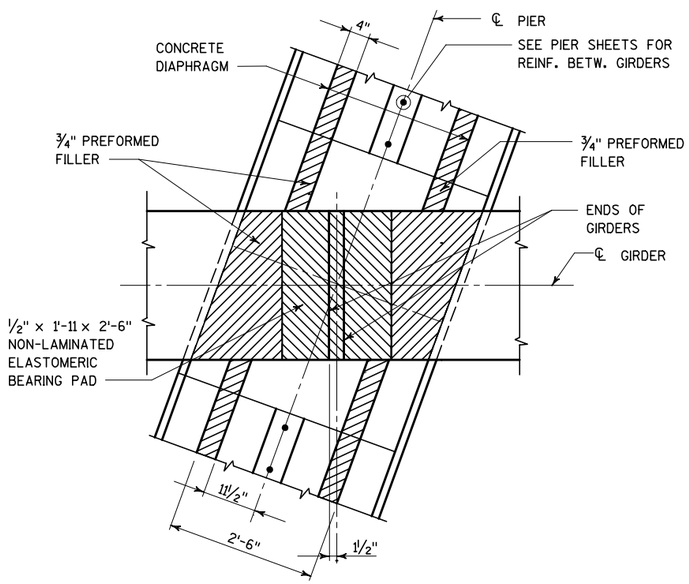


BEARING PAD DETAIL AT FIXED PIER



BEARING PAD DETAIL AT FIXED PIER

(RHF SKEW)



BEARING PAD DETAIL AT FIXED PIER

(LHF SKEW)

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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STRUCTURE B-40-1312

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

ELASTOMERIC BEARING PAD DETAILS

SHEET 360 OF 396

3228

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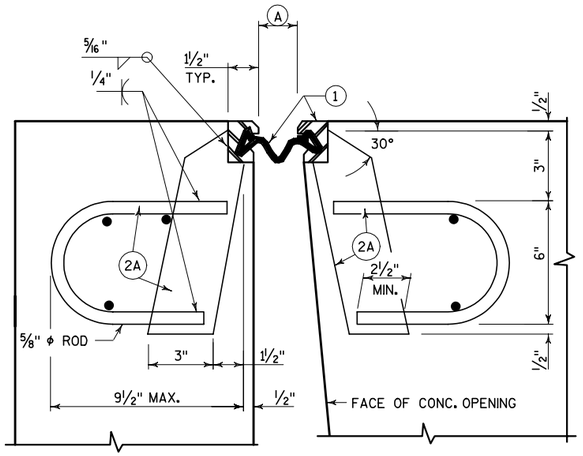
STATE PROJECT NUMBER

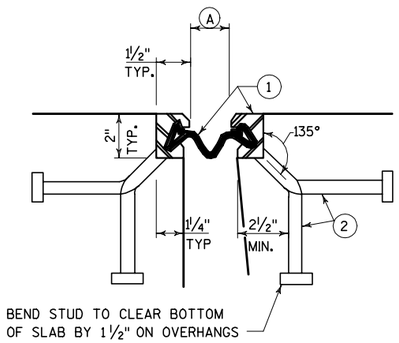
1060-05-75



AT PAVING BLOCK AT SLAB

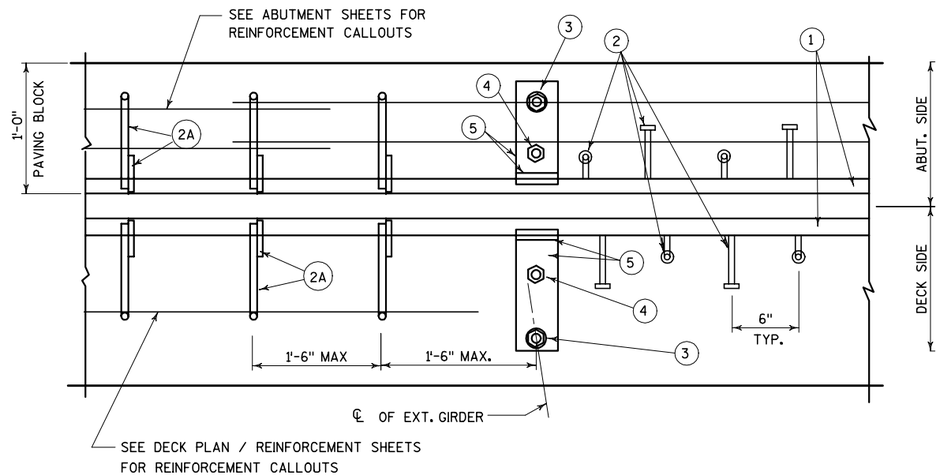
SECTION THRU JOINT

ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS



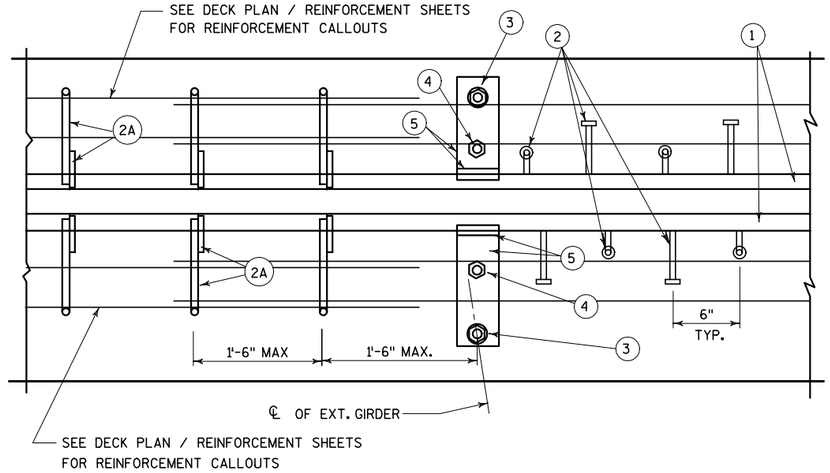
SECTION THRU JOINT

EXTERIOR GIRDER TO EDGE OF SLAB &
AT PARAPETS, MEDIAN & SIDEWALKS



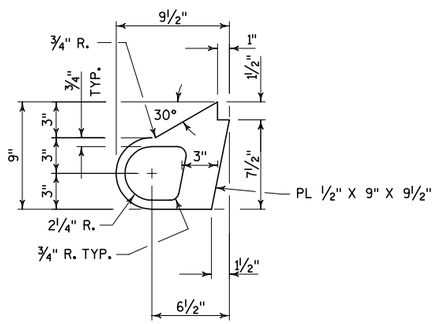
PARTIAL PLAN AT ABUTMENT

(PLAN APPLIES TO ABUTMENT A1-006)



PARTIAL PLAN AT PIER

(PLAN APPLIES TO P4-004 & EXST. PIER 3 OF B-40-285 (36B))



ALTERNATE STRIP SEAL ANCHOR

NOTES

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS. IF USED, DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST & SWEEP.

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN & SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST PLATES & EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING THE PLATES & EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED.

ANCHOR SYSTEM NO. 8 & NO. 9 SHALL CONFORM TO ASTM A307 & SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C & D.

STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS & HARDWARE WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE".

LEGEND

1. NEOPRENE STRIP SEAL & STEEL EXTRUSIONS.
2. STUDS 5/8" ϕ X 6 3/8" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS & BEND AS SHOWN AFTER WELDING.
2A. 1/2" THICK ANCHOR PLATE WITH 5/8"ϕ ROD (OR ALTERNATE STRIP SEAL ANCHOR). WELD ROD TO ANCHOR PLATE, WELD ANCHOR PLATE TO NO.1 AT 1'-6" CTRS. BETWEEN GIRDERS.
3. 3/4" ϕ THREADED ROD WITH 2 NUTS AND WASHERS. FIELD SET ON ℄ OF GIRDER AT ABUTMENTS, AT ABUTMENT BACKWALLS, CONCRETE DIAPHRAGMS, OR EXISTING CONCRETE BACKWALLS. GROUT THREADED ROD INTO FIELD DRILLED HOLES AS SHOWN.
4. 3/4"ϕ THREADED ROD WITH NUT. TACK WELD NUT TO NO. 5.
5. FABRICATE SUPPORT FROM 3" X 1/2" BAR AS SHOWN OR EQUIVALENT, ONE PER GIRDER PER SIDE. FIELD OR SHOP WELD TO NO. 1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY- COATING MATERIAL. PROVIDE 1 1/2" ϕ HOLE FOR NO. 3 & 1" ϕ HOLE FOR NO. 4.
6. PLATE 3/8" × 10 1/2" × (2'-0" LONG FOR SKEWS 10° TO 45° AND 3'-0" LONG FOR SKEWS > 45°) WITH HOLES FOR NO. 7. BEND AS SHOWN.
7. 3/4" ϕ × 1 1/2" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. RECESS 1/16" BELOW PLATE SURFACE.
8. 3/4" ϕ × 4" GALV. HEX HEAD BOLT. BEND 45°.
9. 3/4" ϕ × 2 1/4" GALV. THREADED COUPLING.
11. 1" × 5" SLOTTED CSK. HOLE FOR NO. 7. SLOT PARALLEL TO DIRECTION OF MOVEMENT.

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NO.	DATE	REVISION	BY

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STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

STRIP SEAL DETAILS 1

SHEET 361 OF 396

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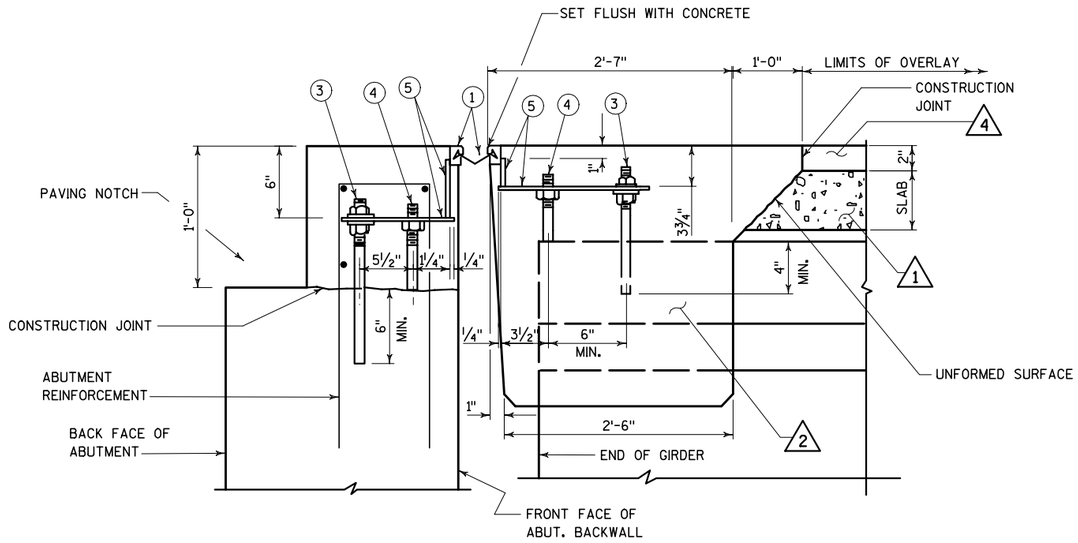
STATE PROJECT NUMBER

1060-05-75

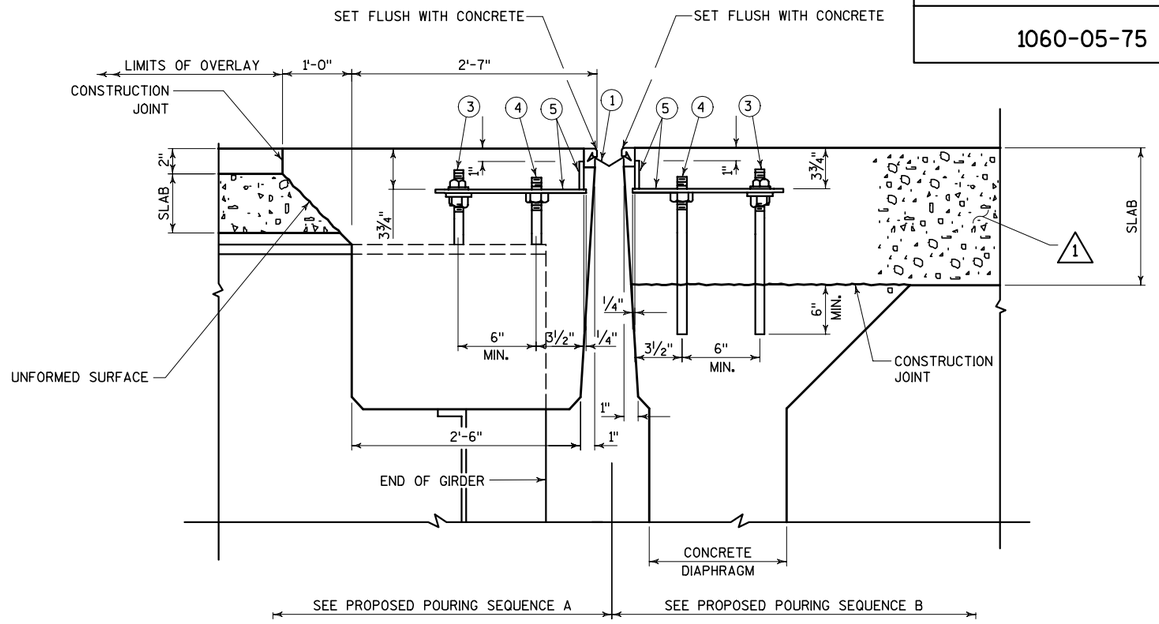


PROPOSED POURING SEQUENCE A

1. PLACE DECK SLAB
2. PLACE DIAPHRAGM AT ABUTMENT (INCLUDING FULL-DEPTH SLAB AND EMBEDMENT OF EXPANSION DEVICE)
3. PLACE PARAPETS (NOT SHOWN)
4. PLACE 2" OVERLAY

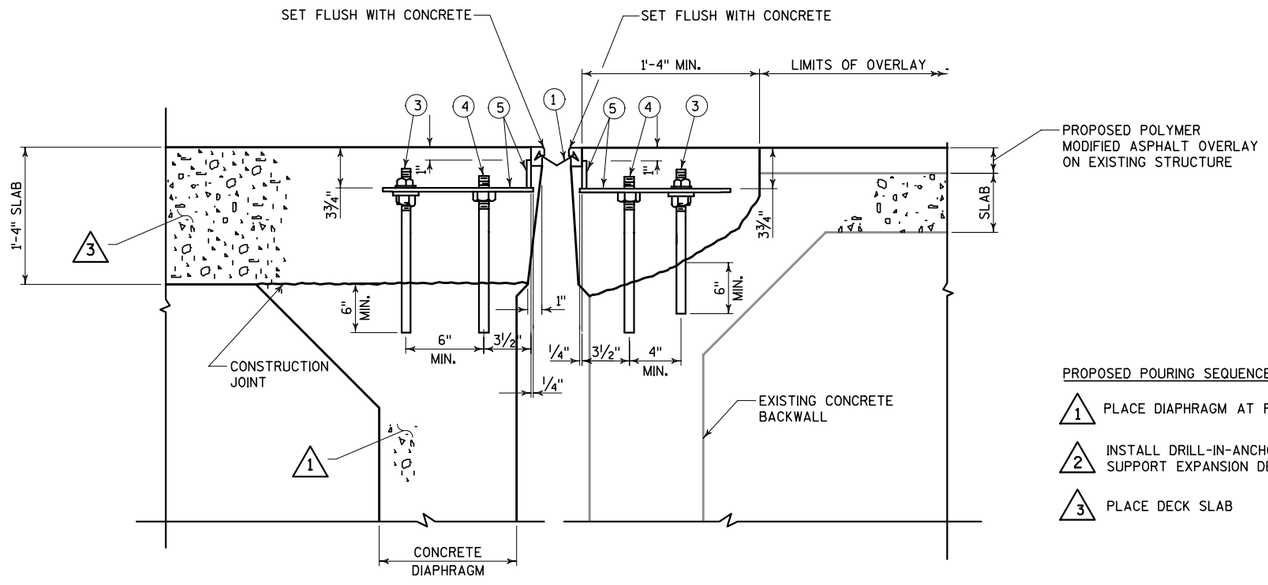
SECTION THRU JOINT @ PRESTRESSED GIRDER

NORMAL TO ℄ SUBSTRUCTURE



SECTION THRU JOINT AT STEEL PLATE GIRDER AND CONCRETE SLAB

NORMAL TO ℄ SUBSTRUCTURE



PROPOSED POURING SEQUENCE B

1. PLACE DIAPHRAGM AT PIER
2. INSTALL DRILL-IN-ANCHORS TO SUPPORT EXPANSION DEVICE
3. PLACE DECK SLAB

SECTION THRU JOINT AT CONCRETE SLAB AND EXISTING STRUCTURE

NORMAL TO ℄ EXISTING SUBSTRUCTURE

JOINT LOCATION	Ⓐ	STRIP SEAL SIZE
ABUTMENT A1-006, STA. 123SP+09.66	1¾"	4"
PIER P4-004, STA. 632+33.91	1¾"	4"
EXIST. PIER, STA. 632+55.92	1¾"	4"

NOTE

FOR LEGEND, SEE SHEET 361

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

STRIP SEAL DETAILS 2

SHEET 362 OF 396

3230

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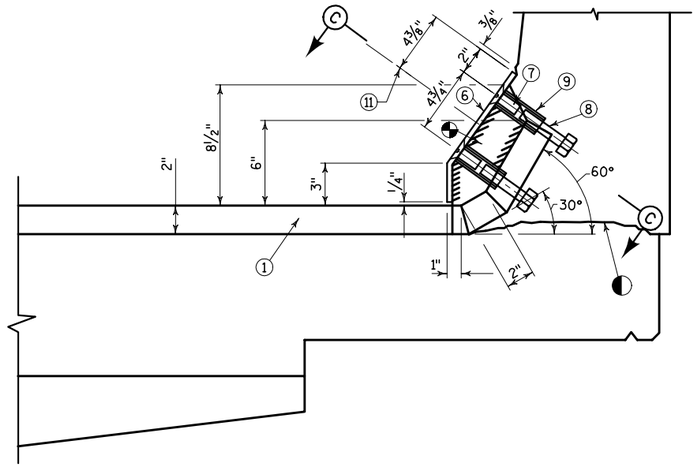
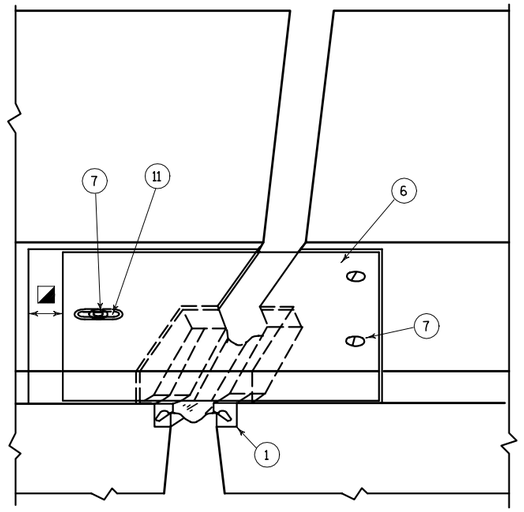
STATE PROJECT NUMBER

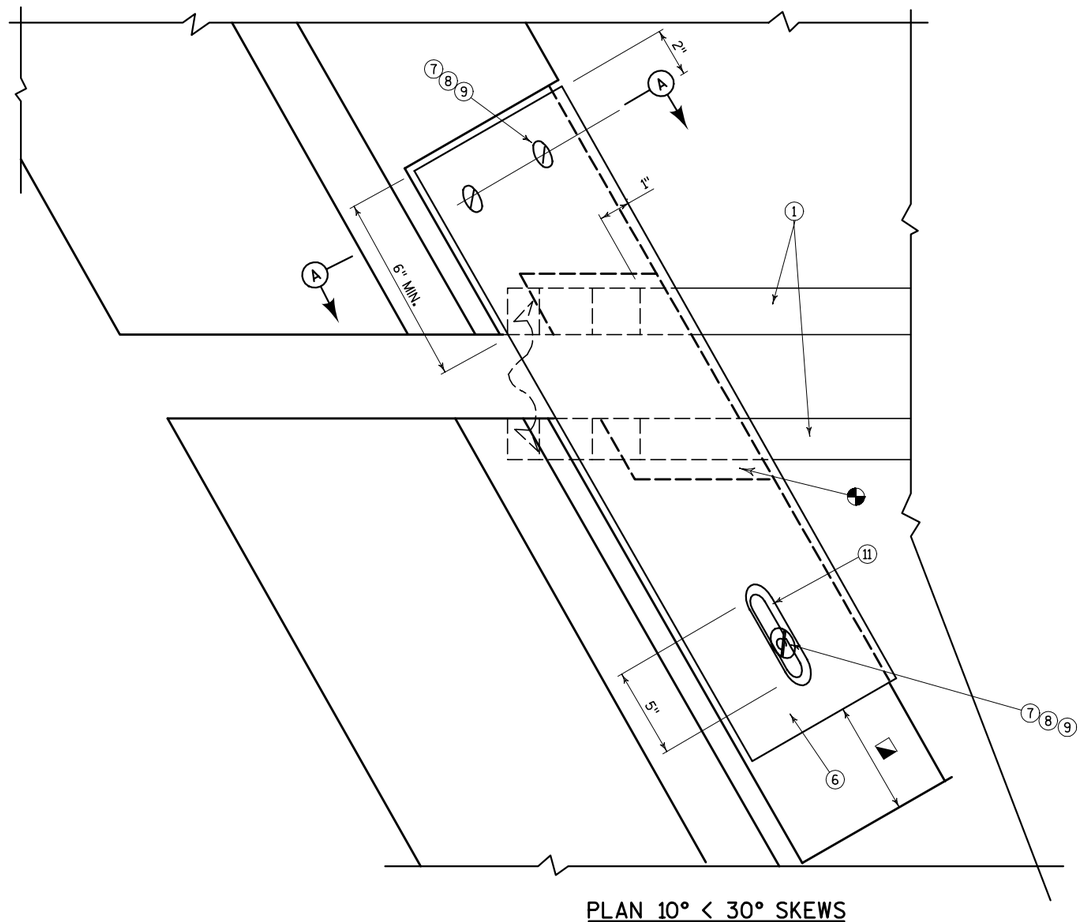
1060-05-75



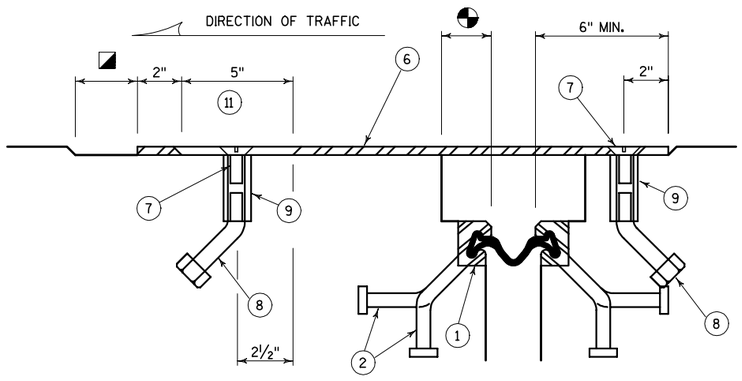
SECTION A-A



VIEW OF PARAPET PLATES FROM ROADWAY



PLAN 10° < 30° SKEWS



SECTION C-C

NOTES

- BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.
- JOINT OPENING DIM. ALONG SKEW PLUS 1/2 "
- CONST. JOINT - STRIKE OFF AS SHOWN.

FOR LEGEND, SEE SHEET 361

NO.	DATE	REVISION	BY

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STRUCTURE B-40-1312

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

COVER PLATES FOR LF/HF PARAPET STRIP SEAL JOINTS

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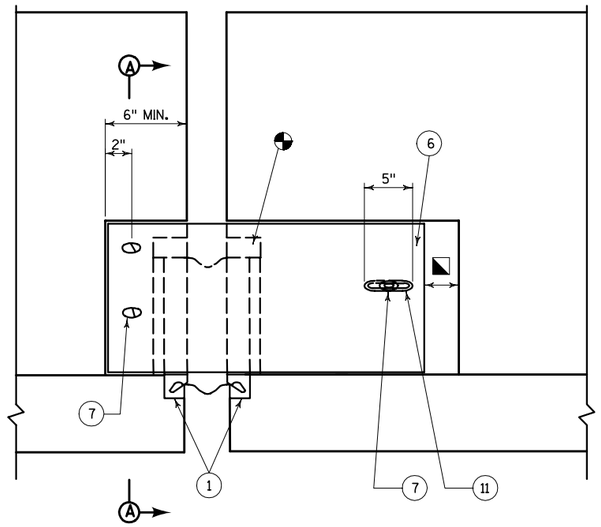
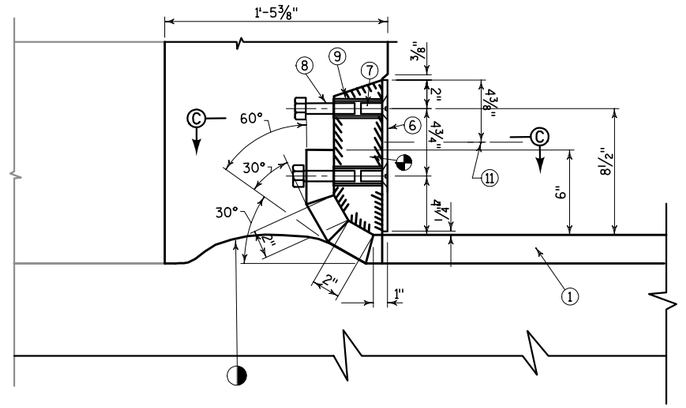
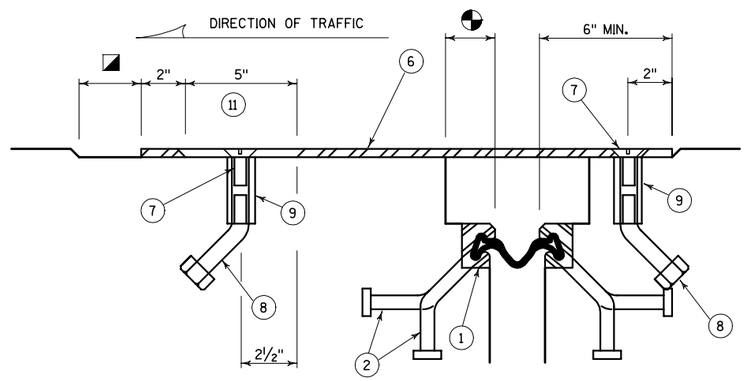


TRAFFIC FACE VIEW



SECTION A-A



SECTION C-C

NOTES

- BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.
- JOINT OPENING DIM. ALONG SKEW PLUS ½"
- CONST. JOINT - STRIKE OFF AS SHOWN.

FOR LEGEND, SEE SHEET 361

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

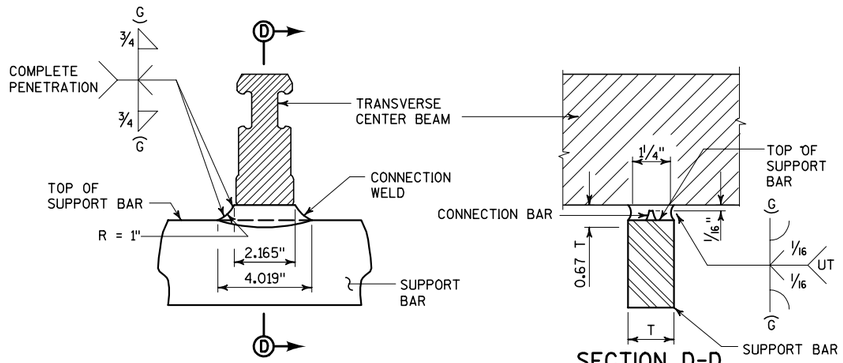
COVER PLATES FOR VERT. FACE PARAPET STRIP SEAL JOINTS

SHEET 364 OF 396

3232

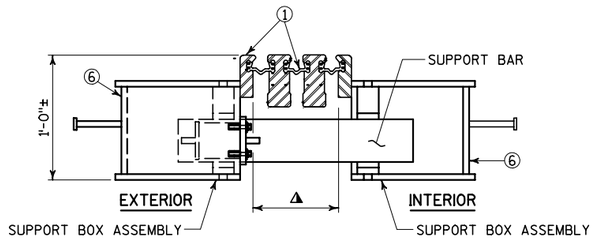
8

STATE PROJECT NUMBER
1060-05-75



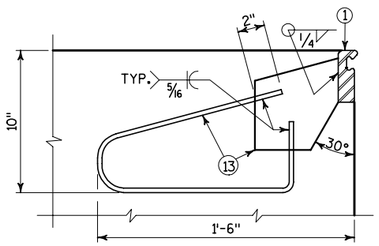
MODULAR EXPANSION JOINT CONNECTION DETAIL AND WELD SPECIFICATION

SECTION D-D



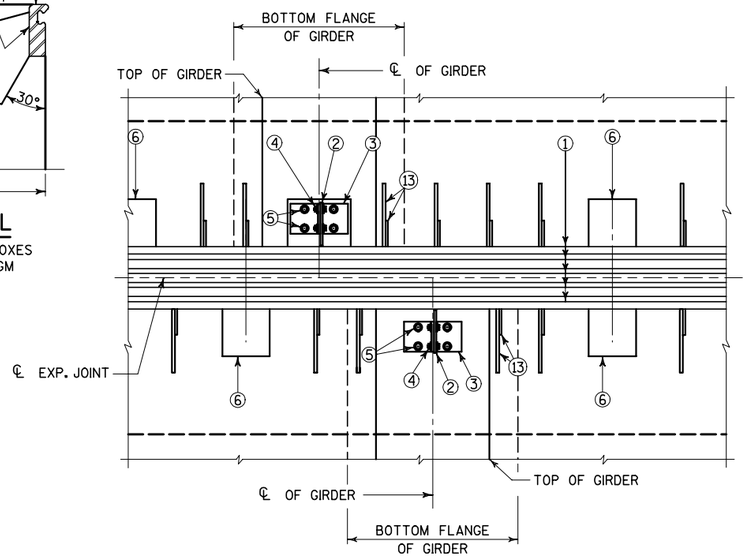
JOINT DETAIL

AT SUPPORT BAR & SUPPORT BOX ASSEMBLY

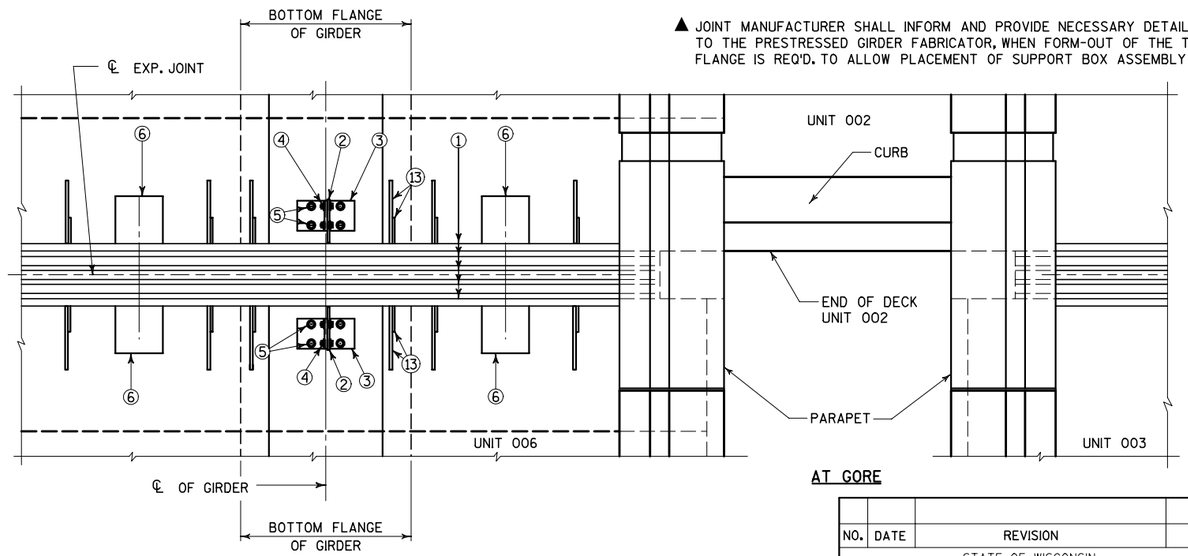


ANCHORAGE DETAIL

PLACE ADJACENT TO SUPPORT BOXES IN DECK @ CONCRETE DIAPHRAGM



PART PLAN (GIRDERS OFFSET AT JOINT)



PART PLAN

AT GORE

NOTES

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS. DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE GLAND.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST & SWEEP.

NO EXPANSION JOINT PROTRUSIONS PERMITTED ABOVE ROADWAY SURFACE, ON PARAPET ROADWAY FACE OR ABOVE SIDEWALK SURFACE (FOR RAISED SIDEWALK).

THE EXPANSION JOINT SEALS SHALL BE PLACED, BONDED & SEALED AS RECOMMENDED BY THE MANUFACTURER. FORM WORK SHALL BE PLACED BETWEEN THE SUPPORT BOXES TO PREVENT CONCRETE INTRUSION INTO THE SUPPORT BOX. A TECHNICAL REPRESENTATIVE OF THE MANUFACTURER SHALL BE PRESENT DURING INSTALLATION. PRIOR TO SETTING THE JOINT ASSEMBLY INTO POSITION, THE PROJECT ENGINEER SHALL DETERMINE THE PROPER JOINT OPENING.

EXPANSION JOINT EXTRUSIONS SHALL BE FABRICATED TO CONFORM TO ROADWAY CROWN & GRADE. FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN & SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST BARS, PLATES, WT-SECTION, ANCHORAGE LOOP, & EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THIS ASSEMBLY SHALL BE HOT DIPPED GALVANIZED.

COST OF FURNISHING & PLACING OF THE EXPANSION JOINTS COMPLETE WITH PARAPET PLATES & SIDEWALK PLATES SHALL BE PAID FOR UNDER THE PRICE BID FOR "MODULAR EXPANSION DEVICE, STRUCTURE B-40-1312".

BAR STEEL REINF. IN DECK AND CONC. DIAPHRAGM SHALL BE RESPACED AS NECESSARY TO ALLOW PLACEMENT OF JOINT ASSEMBLY.

NOTES

FABRICATOR WILL DESIGN EACH JOINT DEPENDING ON THE CONDITIONS AND THE DESIGN CRITERIA USED BY THE SUPPLIER. FABRICATION DRAWING IS SUBJECT TO THE APPROVAL OF THE BUREAU OF STRUCTURES.

SUPPORT BOXES ARE SHOWN FOR GENERAL INFORMATION AND LOCATION MAY VARY ACCORDING TO FABRICATOR DESIGN.

LEGEND

1. MODULAR EXPANSION JOINT DEVICE.
2. 1/2" PLATE, ONE PER GIRDER MIN. PROVIDE 2 - 1" X 2" MIN. SLOTTED HOLES PLACED HORIZONTALLY FOR NO. 4.
3. WT 6 X 29 (OR EQUIVALENT BUILT UP T-SECTION). ONE PER GIRDER. PROVIDE 2 - 1" X 3" MIN. SLOTTED HOLES PLACED VERTICALLY IN WEB OF WT FOR BOLTS NO. 4.
4. 3/4" ϕ HIGH STRENGTH BOLTS WITH NUTS & WASHERS. (A325 GALV.)
5. 3/4" ϕ THREADED ROD WITH 2 NUTS & WASHERS. GROUT THREADED ROD INTO FIELD DRILLED HOLES. (GALV.)
6. SUPPORT BOX ASSEMBLY FOR SUPPORT BAR (SPA. PER MANUFACTURER). SPACE TO MISS GIRDERS. FABRICATE BOX FROM 1/2" PLATES.
7. 3/8" BULKHEAD PLATE. WELD TO NO. 1, NO. 8 AND NO.14.
8. INSIDE PLATE. FABRICATE FROM 3/8" PLATE.
9. OUTSIDE PLATE. FABRICATE FROM 5/8" PLATE.
10. 7/8" SQUARE BAR. WELD TO NO. 8 AS SHOWN.
11. 3/4" ϕ X 4" LONG STUDS. WELD TO NO. 8 , NO. 7 & NO. 14 AS SHOWN.
12. 3/4" ϕ X 2" STAINLESS STEEL FLAT CTSK. SLOTTED HEAD CAP SCREWS. RECESS 1/16" BELOW PLATE SURFACE.
13. 1/2" PLATE WITH 5/8" ϕ LOOP ANCHOR FABRICATED AS SHOWN. SPACED AT MANUFACTURER'S SPEC.
14. INSIDE PLATE. FABRICATE FROM 5/8" PLATE
15. ADIPRENE BUTTON. SEE DETAIL. SET IN OUTSIDE PLATE.
16. 1" X 5/8" BAR WELDED TO NO. 14 AS SHOWN.

⚠ MANUFACTURER'S RECOMMENDED JOINT OPENING BASED ON THE TEMPERATURE ON THE DAY OF PLACEMENT PER TEMPERATURE TABLE

SEE SHEET 366 FOR TEMPERATURE TABLE

▲ JOINT MANUFACTURER SHALL INFORM AND PROVIDE NECESSARY DETAILS TO THE PRESTRESSED GIRDER FABRICATOR, WHEN FORM-OUT OF THE TOP FLANGE IS REQ'D. TO ALLOW PLACEMENT OF SUPPORT BOX ASSEMBLY

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

MODULAR EXPANSION JOINT DETAILS 1

SHEET 365 OF 396

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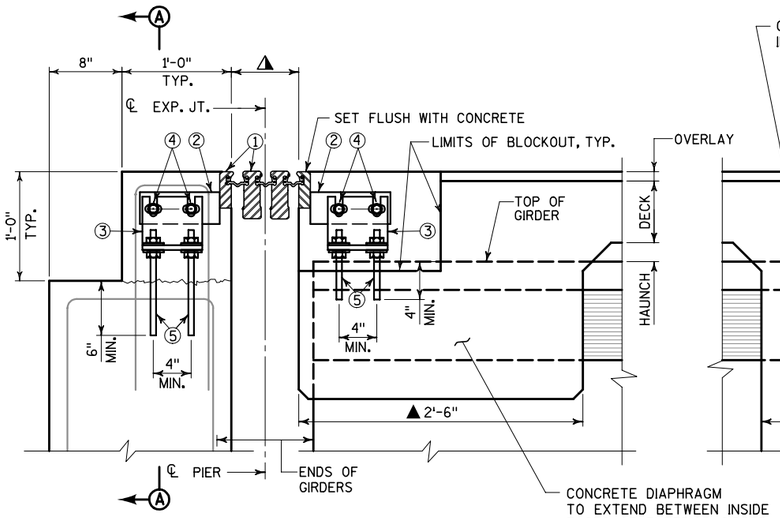
8

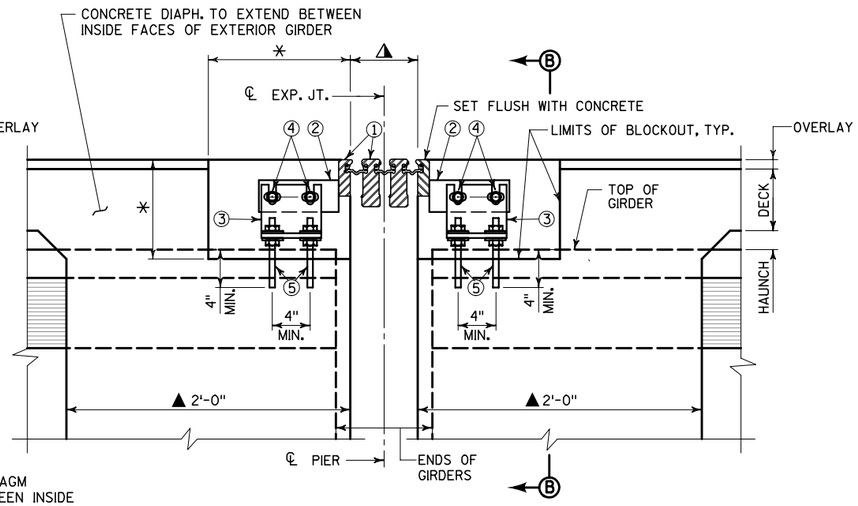
STATE PROJECT NUMBER

1060-05-75



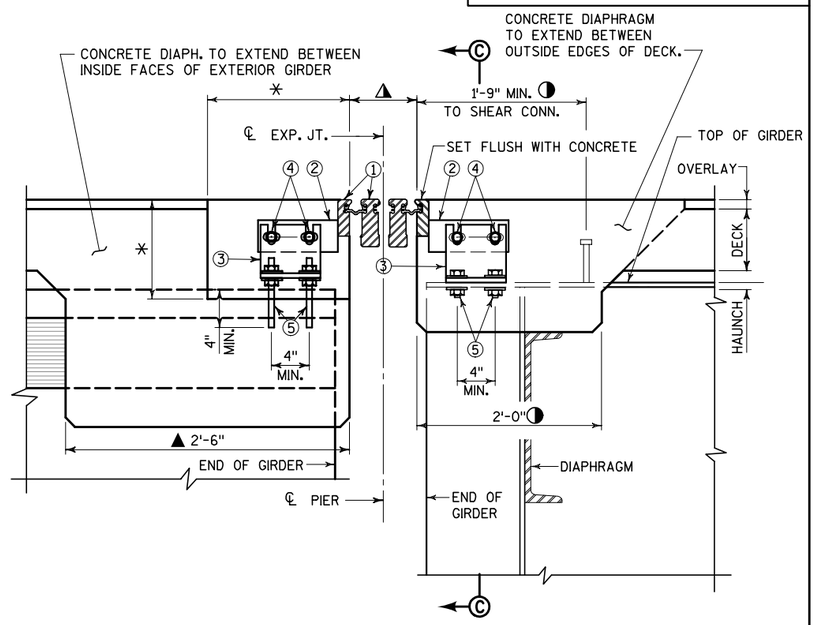
EXPANSION JOINT @ ABUTMENT

NORMAL TO ℄ SUBSTRUCTURE



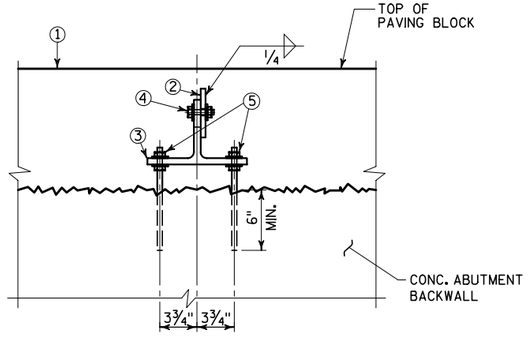
EXPANSION JOINT @ PIER

NORMAL TO ℄ SUBSTRUCTURE



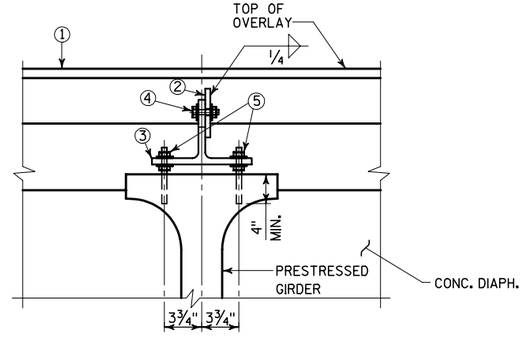
EXPANSION JOINT @ PIER

NORMAL TO ℄ SUBSTRUCTURE
PRESTRESSED GIRDER TO STEEL PLATE GIRDER TRANSITION



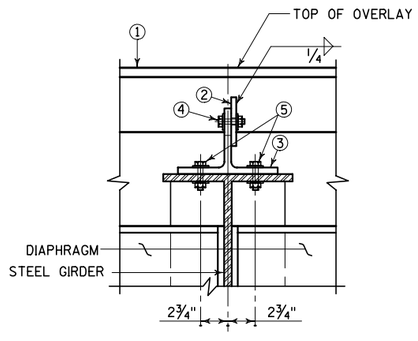
SECTION A-A

(WT 6x29 SUPPORTED ON TOP OF ABUTMENT BACKWALL)



SECTION B-B

(WT 6x29 SUPPORTED ON TOP OF PRESTRESSED GIRDER)



SECTION C-C

(WT 6x29 SUPPORTED ON TOP OF STEEL PLATE GIRDER)

JOINT LOCATION	Ⓐ	Ⓑ
ABUTMENT A1-001, STA. 601+60.05	0.40"	1.75"
PIER P10-001, STA. 611+34.16	0.70"	3.50"
PIER P9-005, STA. 111SP+34.05	0.62"	3.25"
PIER P6-002, STA. 619+29.16	0.66"	3.375"
PIER P6-002, STA. 119SP+29.16	0.44"	2.25"
PIER P1-004, STA. 629+45.49	0.50"	2.00"

MODULAR EXPANSION JOINTS BETWEEN IH 794 EB AND RAMP STRUCTURES QUANTIFIED AND PAID FOR IN THE RAMP STRUCTURE PLANS.

TEMPERATURE TABLE

TEMPERATURE TABLE FOR SETTING JOINT OPENINGS TO BE DETERMINED BY JOINT MANUFACTURER WITH THE FOLLOWING DESIGN DATA:

1. Ⓐ IN. OF MOVEMENT PER 10° F
2. MEDIAN TEMPERATURE OF 45° F
3. TEMP. RANGE IN TABLE FROM (- 5° F) TO (+ 95°F)
4. ADJUST INITIAL JOINT OPENINGS BY A REDUCTION OF Ⓑ IN., WHICH ACCOUNTS FOR SHRINKAGE (CREEP) OF THE SUPERSTRUCTURE OVER TIME, TO PRODUCE FINAL JOINT OPENINGS FOR TABLE.

A TABLE OF JOINT OPENINGS BASED ON ABOVE DATA SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

NOTES

FOR LEGEND, SEE SHT. 365.

△ MANUFACTURER'S RECOMMENDED JOINT OPENING BASED ON THE TEMPERATURE ON THE DAY OF PLACEMENT PER TEMPERATURE TABLE

▲ JOINT MANUFACTURER SHALL INFORM AND PROVIDE NECESSARY DETAILS TO THE PRESTRESSED GIRDER FABRICATOR, WHEN FORM-OUT OF THE TOP FLANGE IS REQ'D. TO ALLOW PLACEMENT OF SUPPORT BOX ASSEMBLY

◑ DIMENSION IS PARALLEL TO ℄ GIRDER.

✳ SIZE BLOCK OUT BASED ON JOINT MANUFACTURER'S RECOMMENDATIONS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

MODULAR EXPANSION JOINT DETAILS 2

SHEET 366 OF 396

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8

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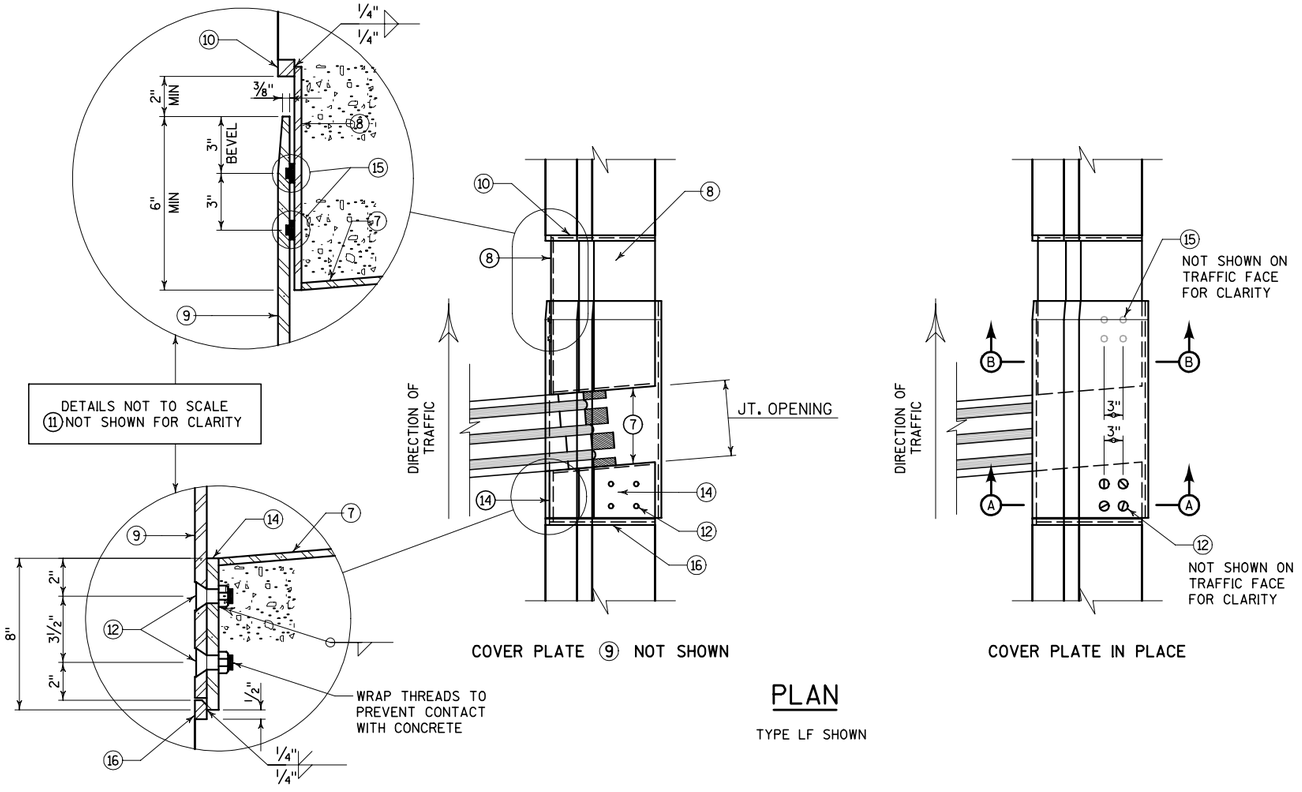
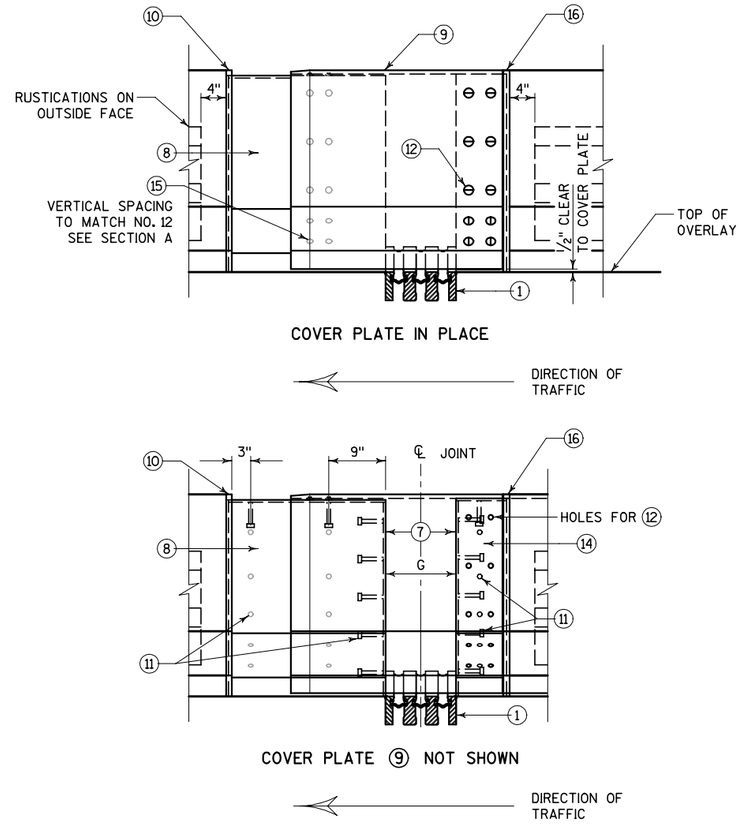
STATE PROJECT NUMBER

1060-05-75



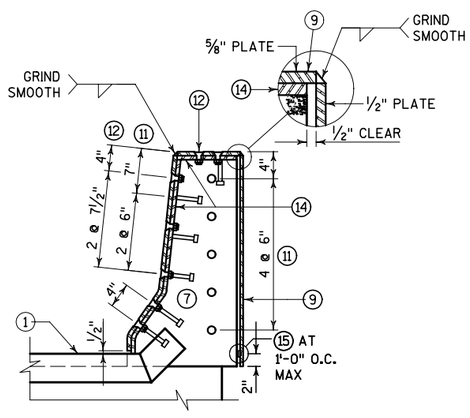
PLAN

TYPE LF SHOWN



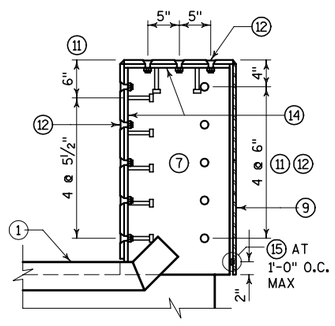
INSIDE FACE ELEVATION

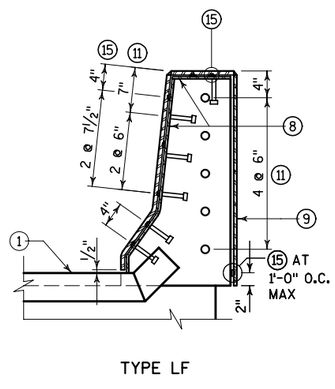
TYPE LF SHOWN
OTHER TYPES SIMILAR



SECTION A-A

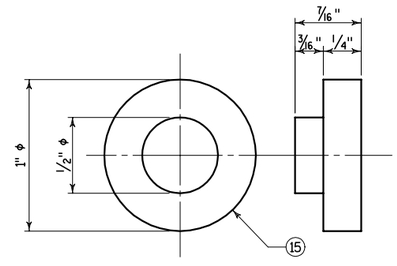
FIXED (TRAFFIC UPSTREAM) SIDE





SECTION B-B

SLIDING (TRAFFIC DOWNSTREAM) SIDE



ADIPRENE BUTTON

NOTE

FOR LEGEND, SEE SHT. 365

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

COVER PLATES FOR LF PARAPET MOD. EXPANSION JOINT

SHEET 367 OF 396

3235

8

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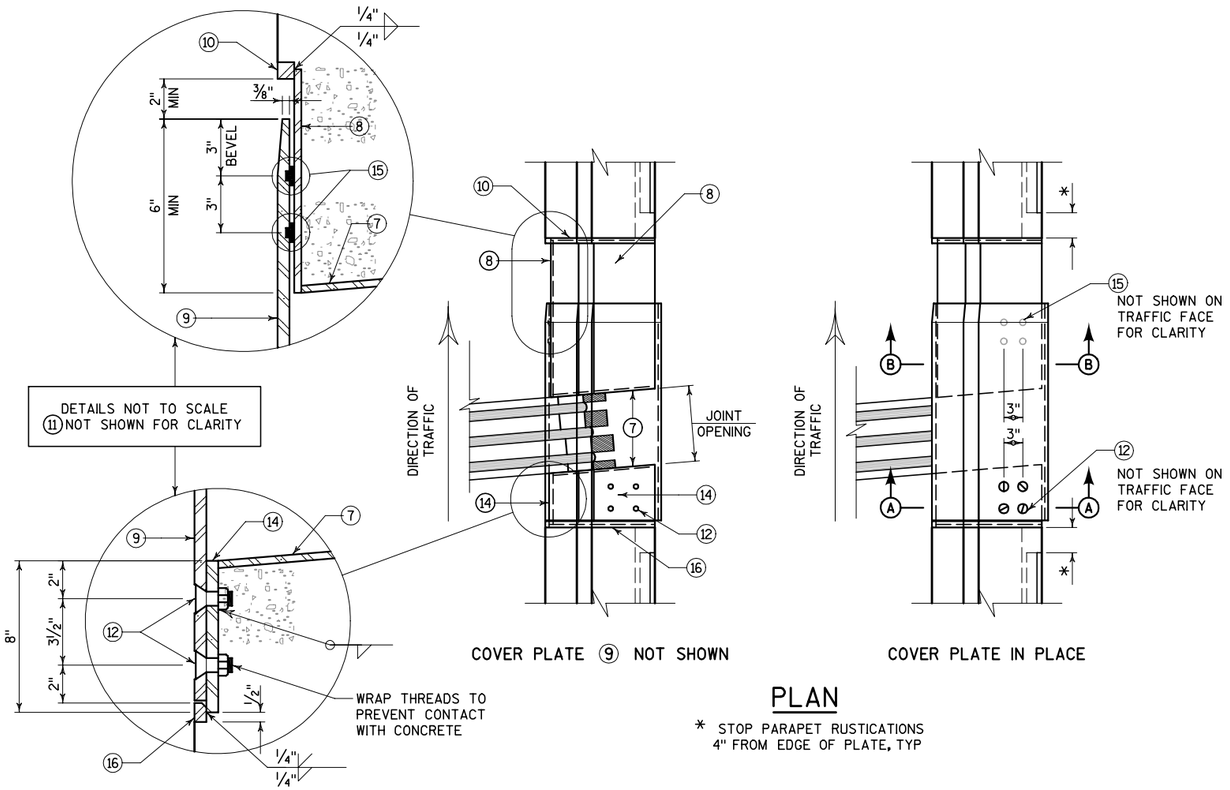
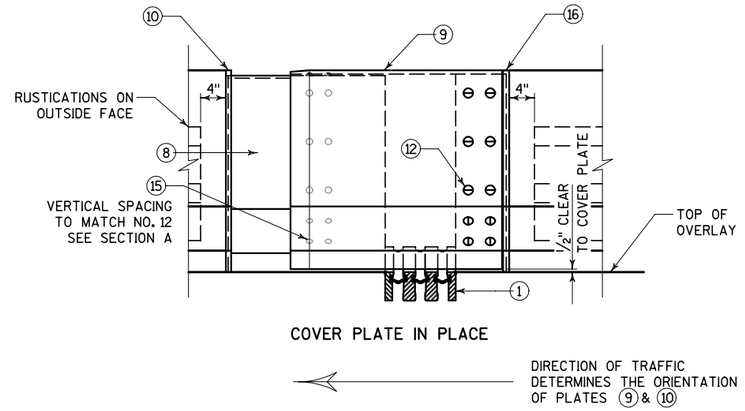
STATE PROJECT NUMBER

1060-05-75

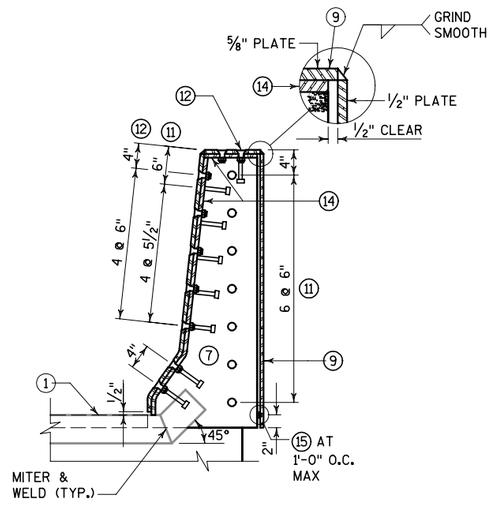


PLAN

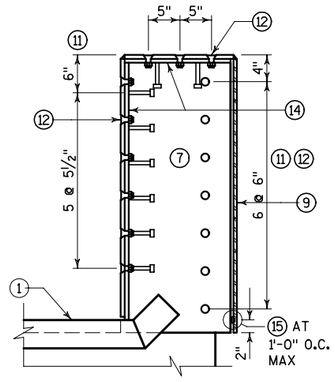
* STOP PARAPET RUSTICATIONS 4" FROM EDGE OF PLATE, TYP



INSIDE FACE ELEVATION



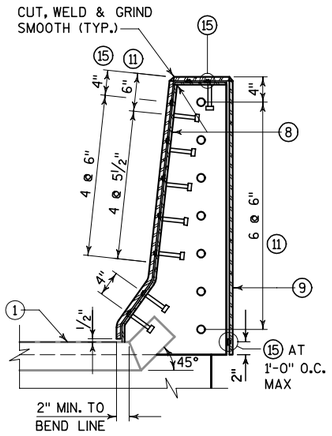
TYPE HF



TYPE HF VERTICAL

SECTION A-A

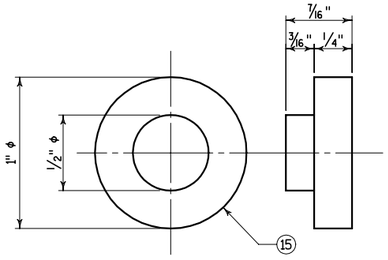
FIXED (TRAFFIC UPSTREAM) SIDE



TYPE HF

SECTION B-B

SLIDING (TRAFFIC DOWNSTREAM) SIDE



ADIPRENE BUTTON

NOTE

FOR LEGEND, SEE SHT. 360

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

COVER PLATES FOR HF PARAPET MOD. EXPANSION JOINT

SHEET 368 OF 396

3236

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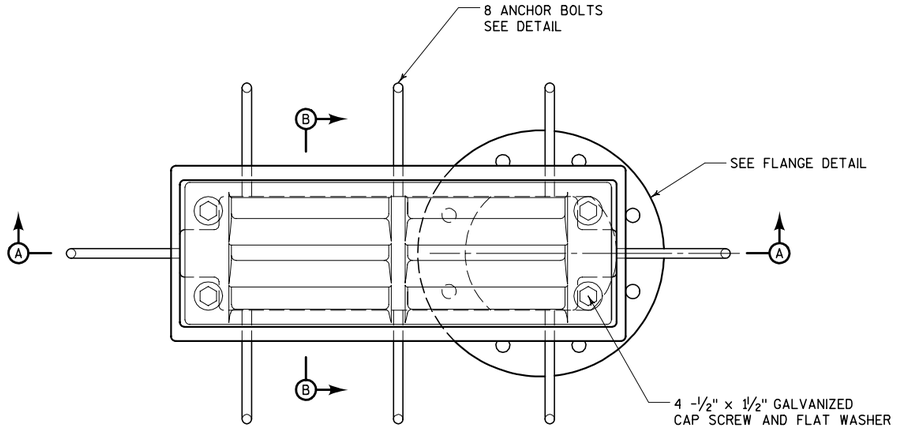
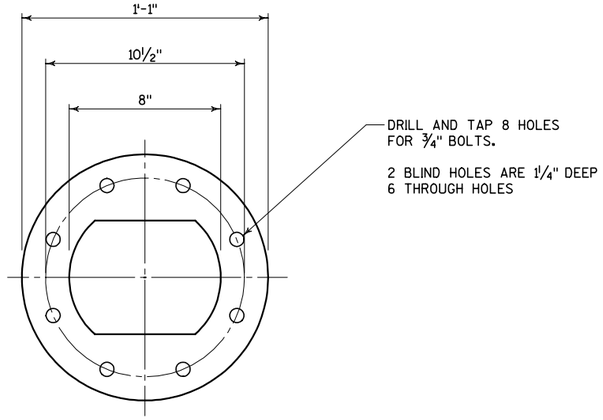
STATE PROJECT NUMBER
1060-05-75



PLAN



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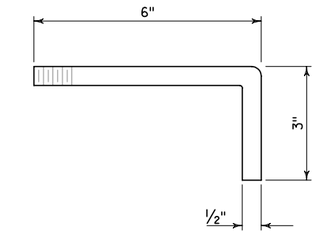
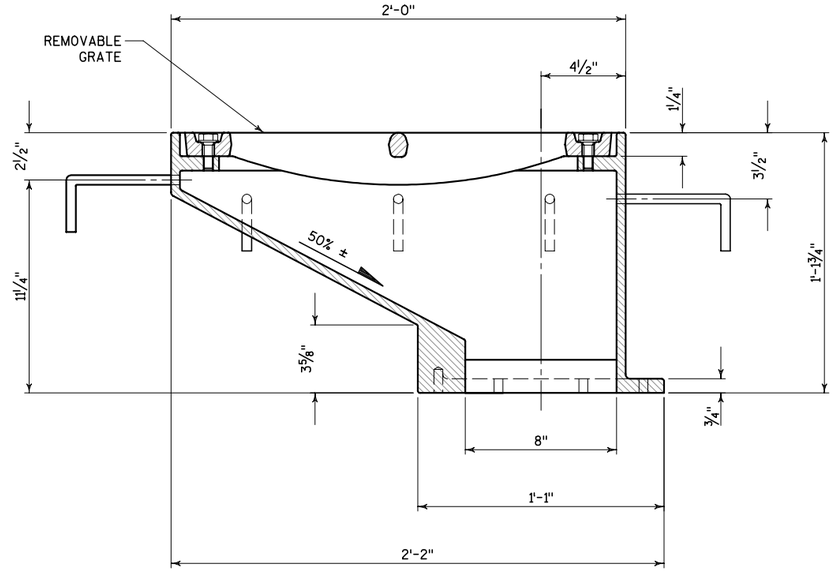
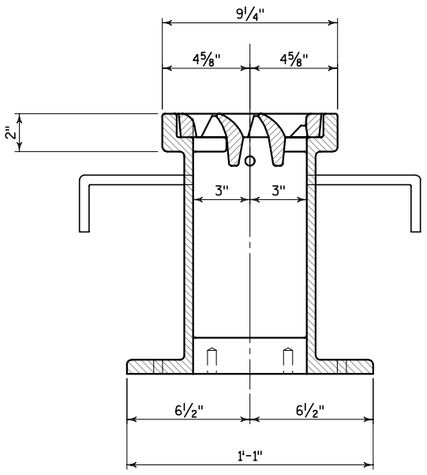


ANCHOR BOLT DETAIL



SECTION A-A



SECTION B-B

NOTES

1. THE DRAIN CASTING SHOWN IS BASED ON PART NUMBER R-3921-V1 FROM THE NEENAH FOUNDRY COMPANY WITH MODIFICATIONS AS REQUIRED TO PERMIT AN 8" DOWNSPOUT TO BE USED.
2. A FABRICATED DRAIN ASSEMBLY MAY BE SUBSTITUTED IF THE HYDRAULIC PROPERTIES OF THE SPECIFIED CASTING CAN BE MAINTAINED, IF THE GEOMETRY OF THE REPLACEMENT IS ACCEPTABLE AND IF APPROVED BY THE ENGINEER. FABRICATED DRAINS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A153.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	2004	DRAWN BY	DJS	PLANS CK'D.	KES

FLOOR DRAIN
TYPE A

SHEET 369 OF 396

3237

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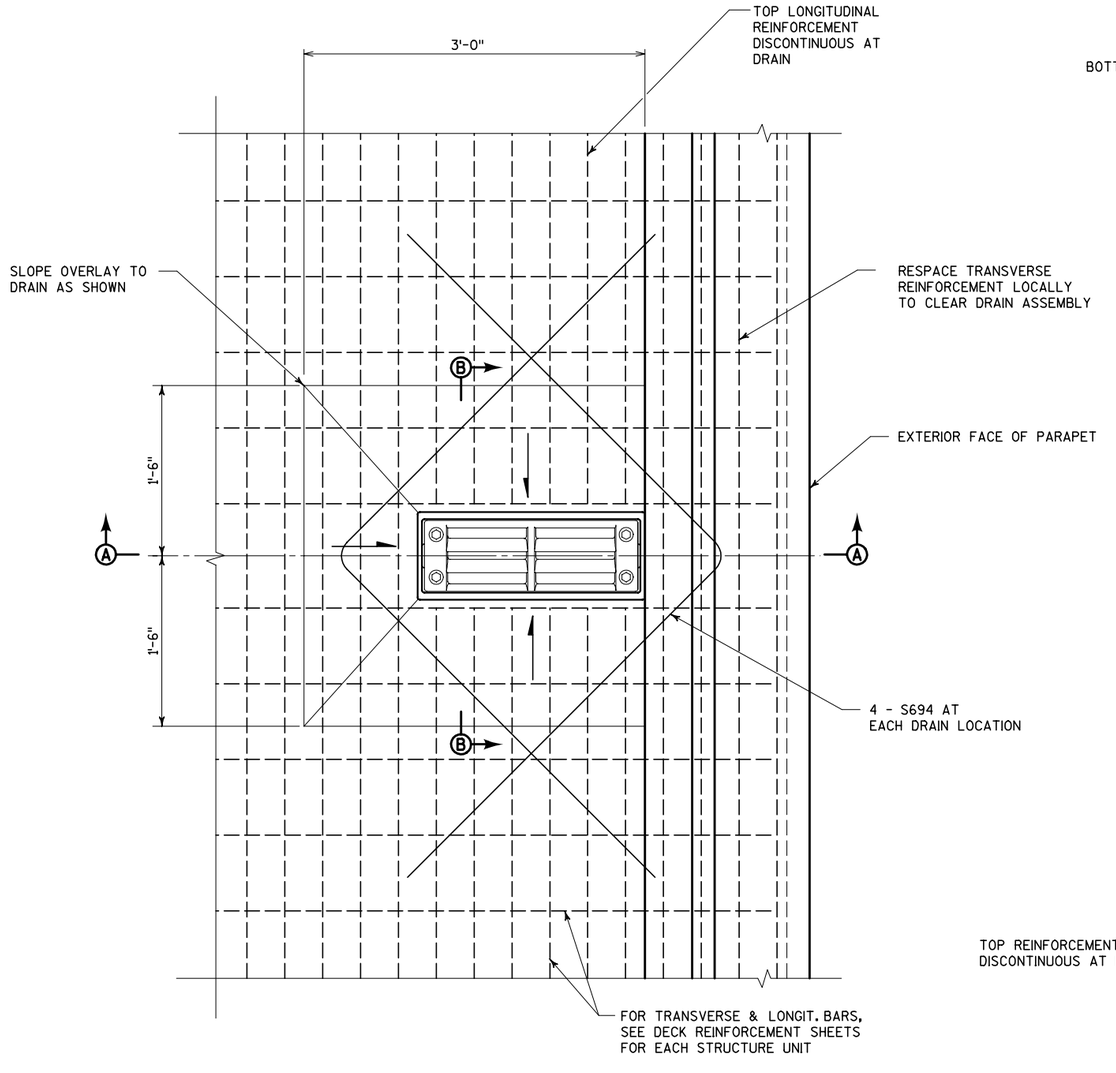
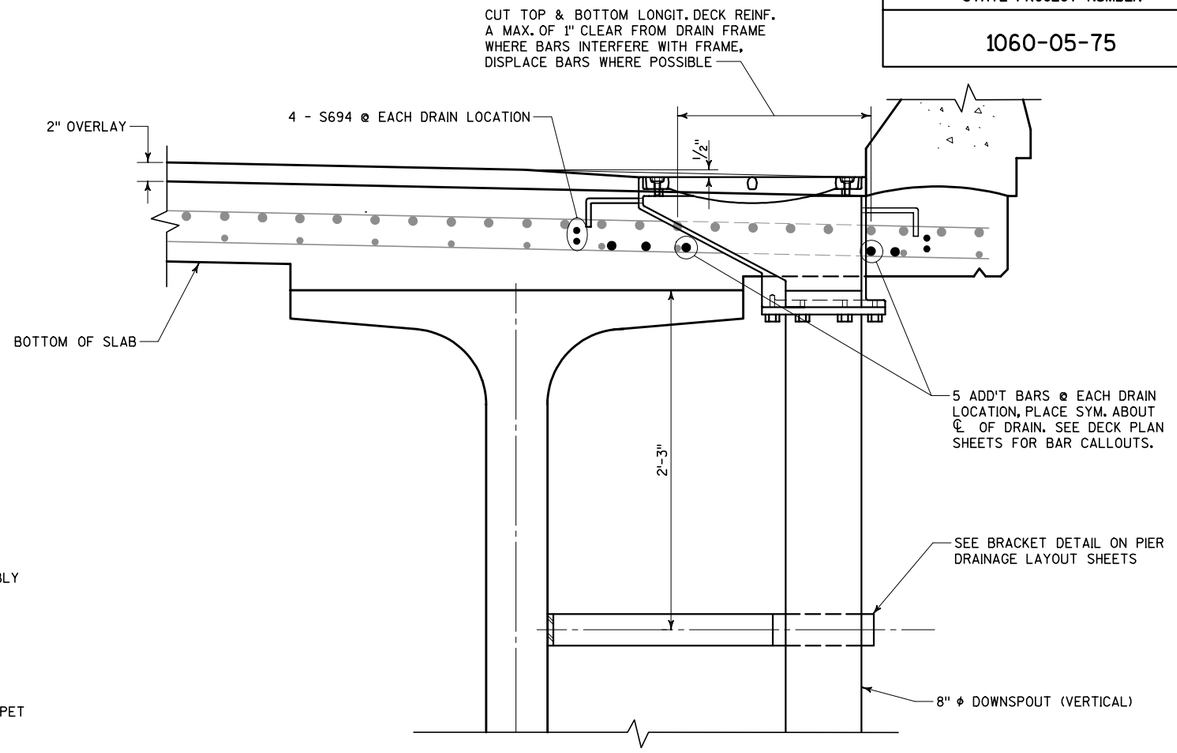
STATE PROJECT NUMBER

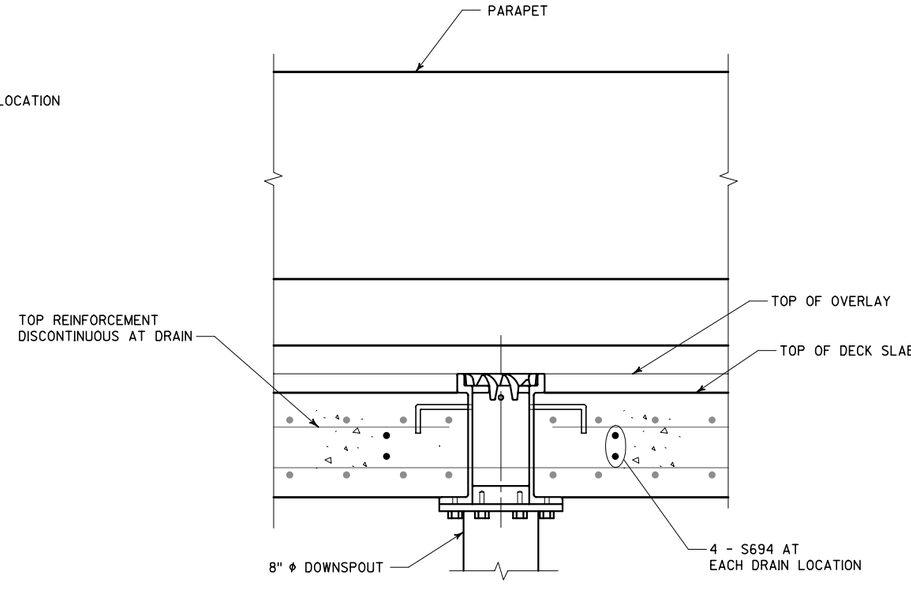
1060-05-75



PLAN



SECTION A-A



SECTION B-B

NOTES

1. PARAPET REINFORCEMENT AND DOWELS NOT SHOWN FOR CLARITY - RESPACE LOCALLY AS REQUIRED TO CLEAR DECK DRAIN.
2. FOR DRAIN CASTING DETAILS, SEE SHEET 369.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	DJS	KES

FLOOR DRAIN TYPE A DETAILS

SHEET 370 OF 396

3238

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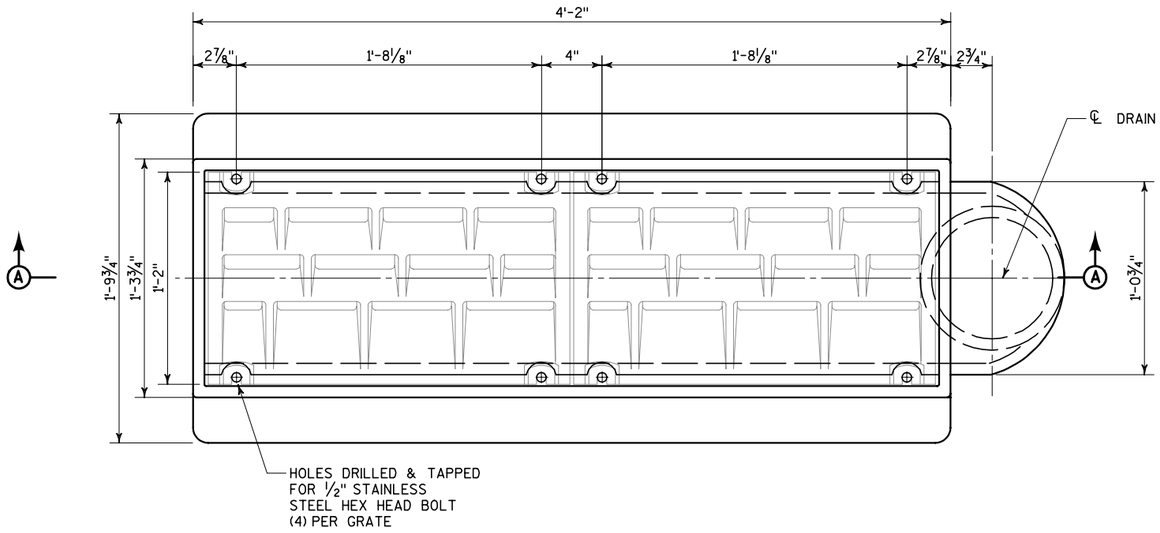
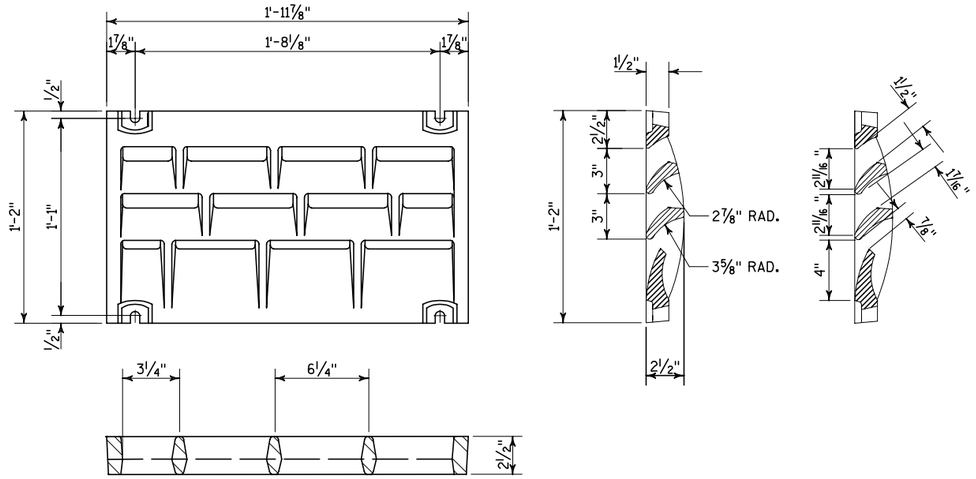
STATE PROJECT NUMBER
1060-05-75

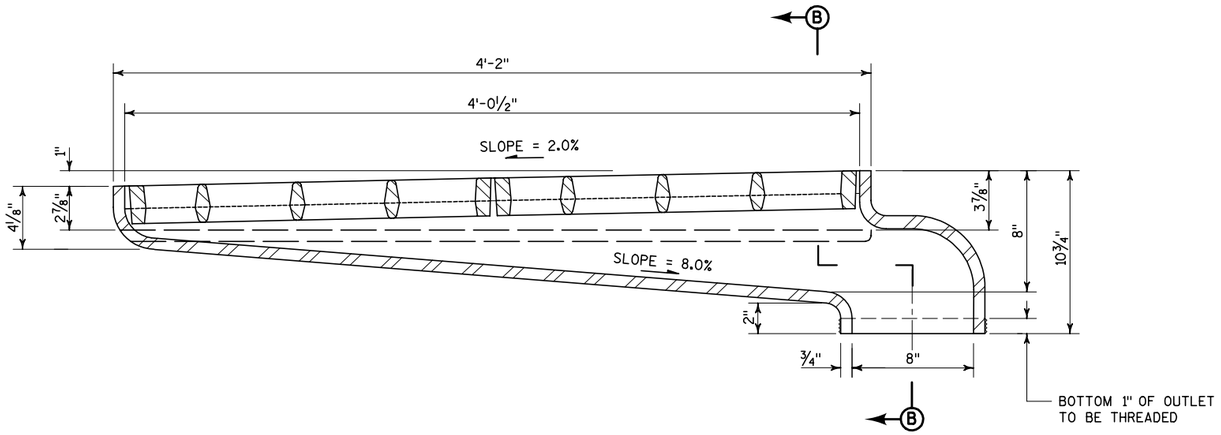


PLAN

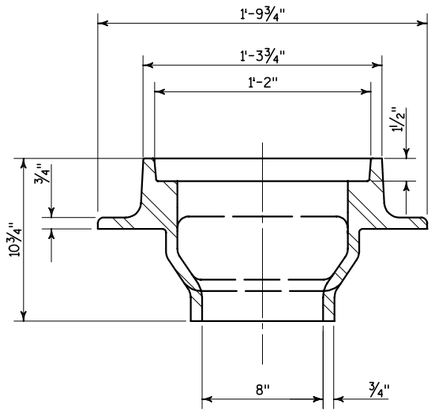


GRATE DETAIL

ATTACH GRATE TO FRAME FOR SHIPMENT



SECTION A-A



SECTION B-B

NOTES

1. THE DRAIN CASTING SHOWN IS BASED ON PART NUMBER R-3951 FROM THE NEENAH FOUNDRY COMPANY WITH MODIFICATIONS AS REQUIRED TO PROVIDE A BOTTOM SLOPE DRAIN OF 8%.
2. A FABRICATED DRAIN ASSEMBLY MAY BE SUBSTITUTED IF THE HYDRAULIC PROPERTIES OF THE SPECIFIED CASTING CAN BE MAINTAINED, IF THE GEOMETRY OF THE REPLACEMENT IS ACCEPTABLE AND IF APPROVED BY THE ENGINEER. FABRICATED DRAINS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A153.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	KGW	KES

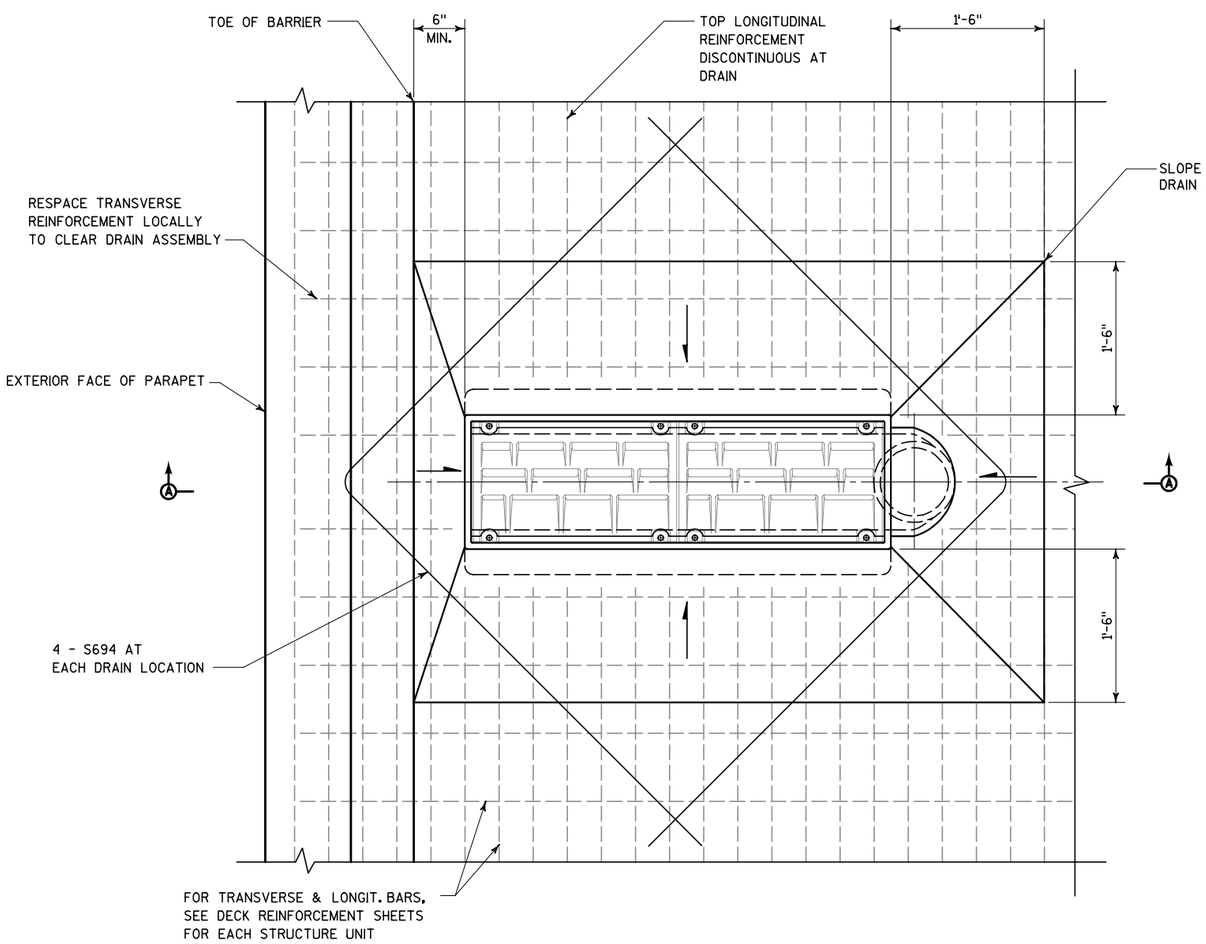
FLOOR DRAIN TYPE B

SHEET 371 OF 396

3239

STATE PROJECT NUMBER

1060-05-75



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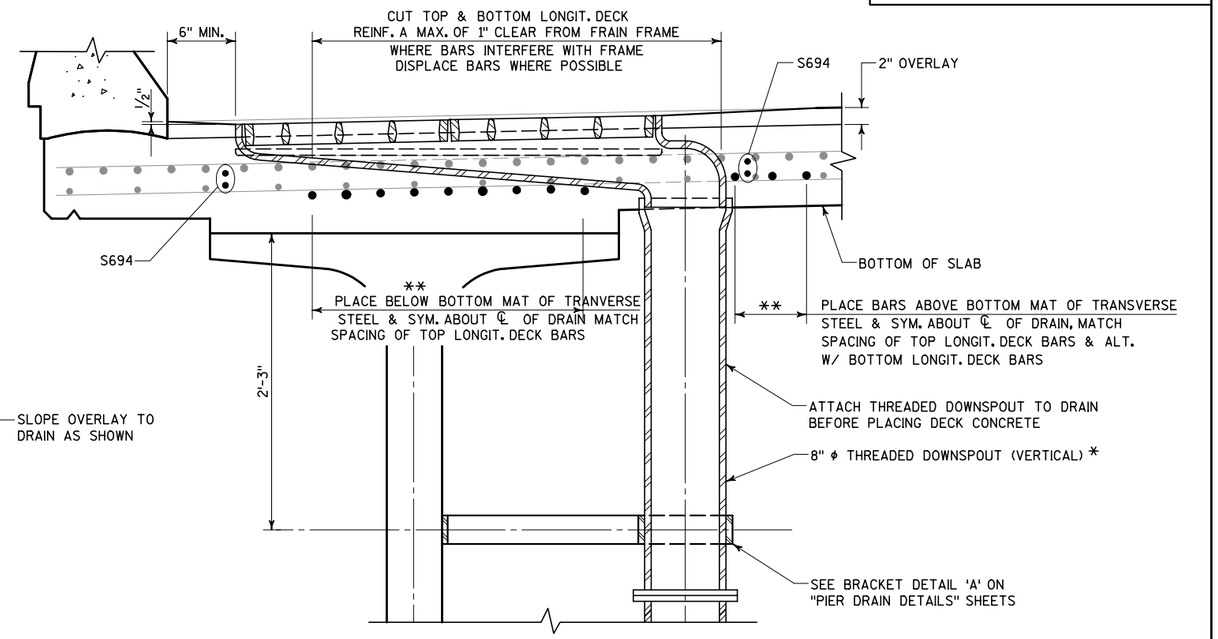

SECTION A-A

NOTES

1. FOR DRAIN CASTING DETAILS, SEE SHEET 371.
2. MATERIAL FOR BRACKETS SHALL CONFORM TO ASTM A36.
3. THE CONTRACTOR MAY PROPOSE AN ALTERNATE TYPE OF BRACKET. THE PROPOSED ALTERNATE DETAILS SHALL BE SUBMITTED AND SUBJECT TO THE APPROVAL OF THE ENGINEER.

* 8" DIA. DOWNSPOUTS AND FITTINGS SHALL BE REINFORCED THERMOSETTING RESIN PIPING (RTRP).

** FOR BAR CALLOUTS OF ADDITIONAL REINFORCEMENT, SEE DECK PLAN/REINFORCEMENT SHEETS.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	RWN	KES

FLOOR DRAIN TYPE B DETAILS

SHEET 372 OF 396

3240

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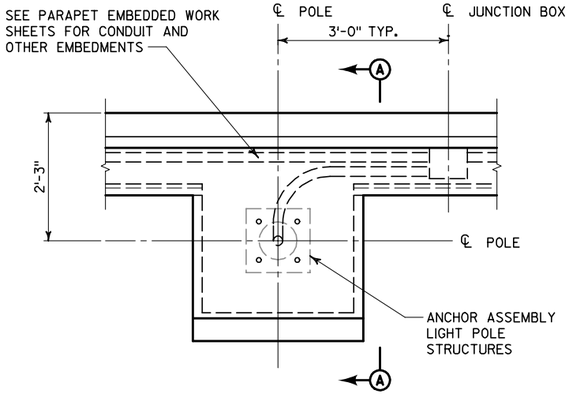
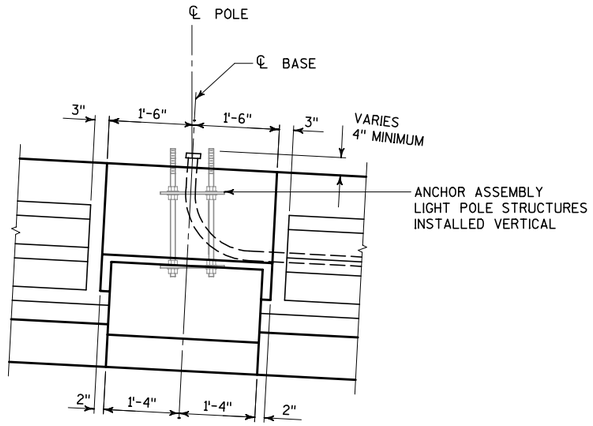
STATE PROJECT NUMBER

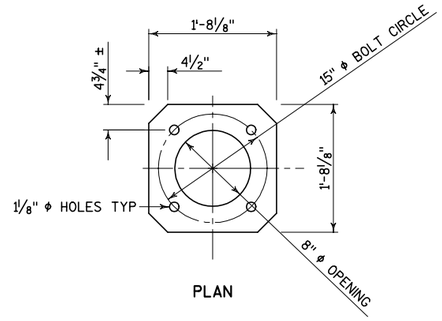
1060-05-75



PLAN



ELEVATION



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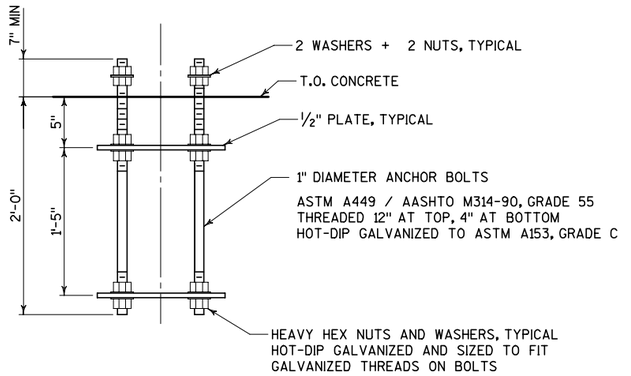
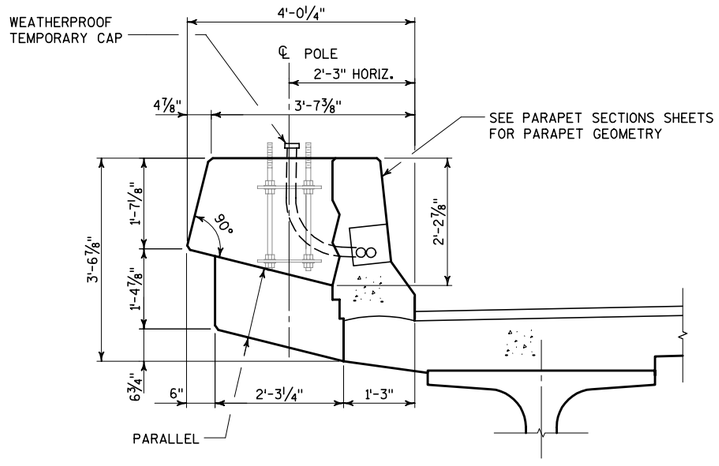


ELEVATION

ANCHOR ASSEMBLY LIGHT POLE STRUCTURES

NOT TO SCALE



SECTION A-A

NOTES

1. SEE SHEET 3 & 4 FOR GENERAL NOTES.
2. EXCEPT AS NOTED BELOW, LIGHT POLE BASES ARE INCLUDED WITH (AND CONSIDERED INCIDENTAL TO) ITEM SPV.0090.2040 AND SPV.00900.2045 - PARAPET BRIDGE TYPE LF AND HF.
3. SUPPLY OF LIGHT POLE ANCHOR ASSEMBLIES IS COVERED UNDER SEPARATE PAY ITEM(S). INSTALLATION OF ANCHOR ASSEMBLIES IS CONSIDERED INCIDENTAL TO THE PARAPET BRIDGE PAY ITEM(S).
4. LIGHT POLE INSTALLATION IS COVERED UNDER A SEPARATE PAY ITEM.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

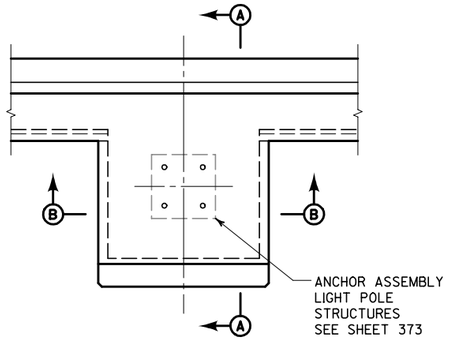
LF PARAPET LIGHT POLE BASE

SHEET 373 OF 396

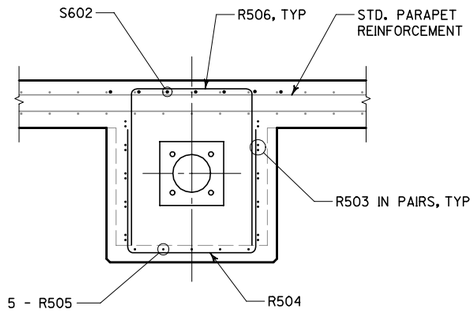
3241

8

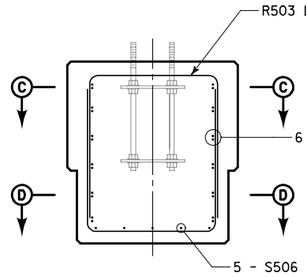
STATE PROJECT NUMBER
1060-05-75



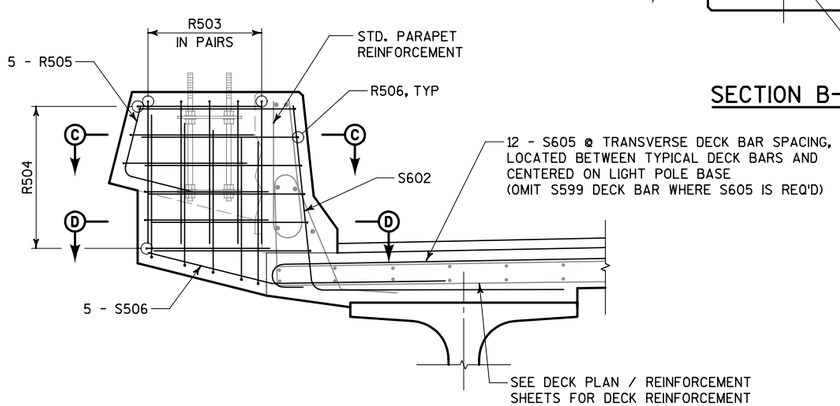
PLAN



SECTION C-C



SECTION B-B



SECTION A-A

SECTION D-D

NOTES

1. SEE SHEET 3 & 4 FOR GENERAL NOTES.
2. EXCEPT AS NOTED BELOW, LIGHT POLE BASES ARE INCLUDED WITH (AND CONSIDERED INCIDENTAL TO) ITEM SPV.0090.2040 AND SPV.00900.2045 - PARAPET BRIDGE TYPE LF AND HF.
3. SUPPLY OF LIGHT POLE ANCHOR ASSEMBLIES IS COVERED UNDER SEPARATE PAY ITEM(S). INSTALLATION OF ANCHOR ASSEMBLIES IS CONSIDERED INCIDENTAL TO THE PARAPET BRIDGE PAY ITEM(S).
4. LIGHT POLE INSTALLATION IS COVERED UNDER A SEPARATE PAY ITEM.
5. REINFORCEMENT MARKS STARTING WITH 'R' ARE INCLUDED UNDER THE PARAPET BRIDGE PAY ITEMS. ALL OTHER MARK PREFIXES ARE COVERED UNDER OTHER PAY ITEM(S).

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

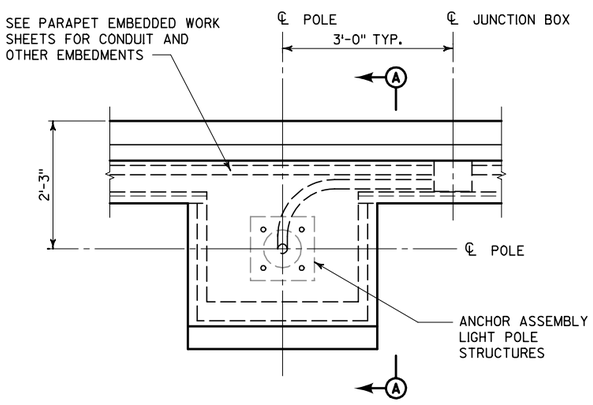
CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

LF PARAPET
LIGHT POLE BASE
REINFORCEMENT

SHEET 374 OF 396

3242

STATE PROJECT NUMBER
1060-05-75



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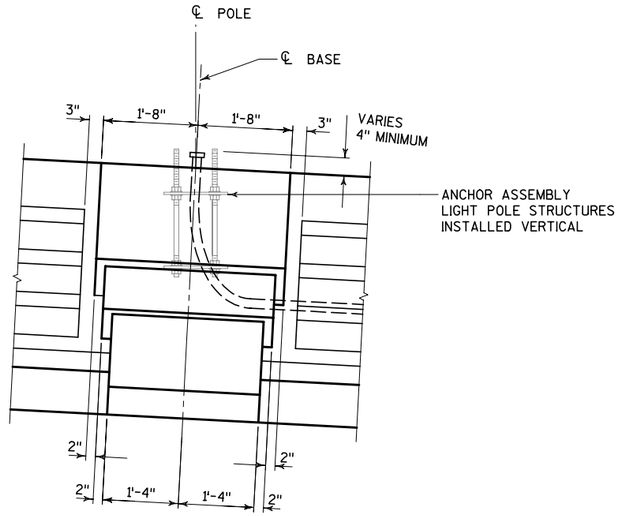

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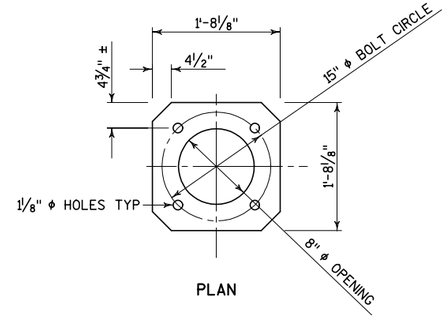

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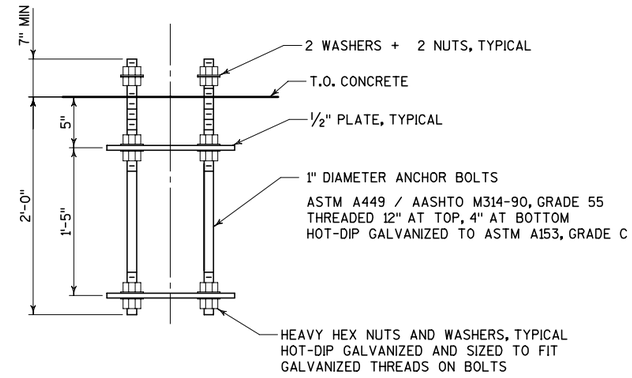

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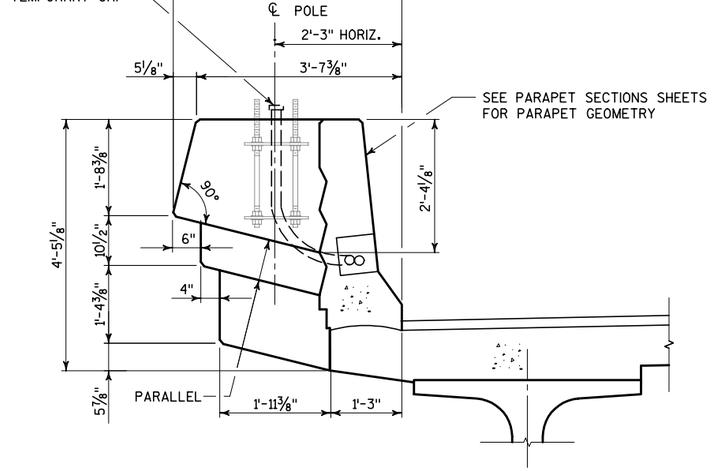

SECTION A-A

ANCHOR ASSEMBLY LIGHT POLE STRUCTURES

NOT TO SCALE

NOTES

1. SEE SHEET 3 & 4 FOR GENERAL NOTES.
2. EXCEPT AS NOTED BELOW, LIGHT POLE BASES ARE INCLUDED WITH (AND CONSIDERED INCIDENTAL TO) ITEM SPV.0090.2040 AND SPV.00900.2045 - PARAPET BRIDGE TYPE LF AND HF.
3. SUPPLY OF LIGHT POLE ANCHOR ASSEMBLIES IS COVERED UNDER SEPARATE PAY ITEM(S). INSTALLATION OF ANCHOR ASSEMBLIES IS CONSIDERED INCIDENTAL TO THE PARAPET BRIDGE PAY ITEM(S).
4. LIGHT POLE INSTALLATION IS COVERED UNDER A SEPARATE PAY ITEM.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

HF PARAPET
LIGHT POLE BASE

SHEET 375 OF 396

3243

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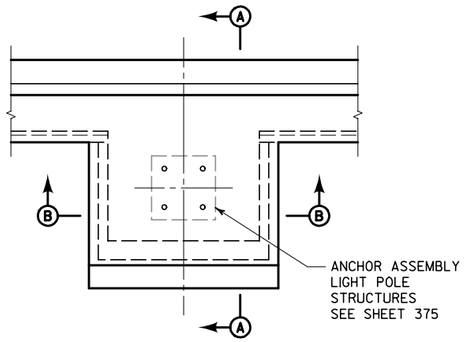
STATE PROJECT NUMBER
1060-05-75



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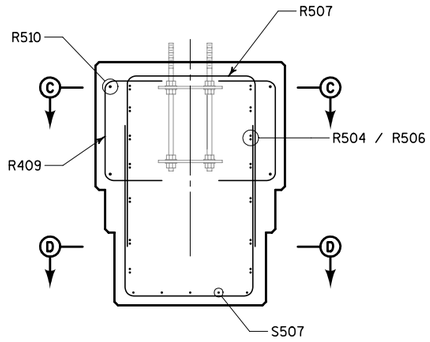
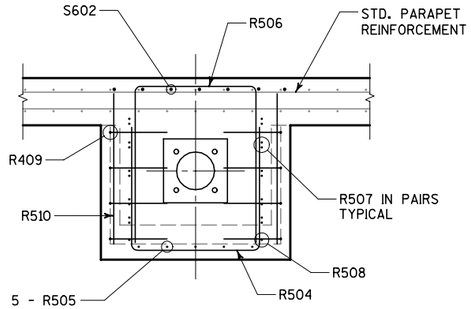
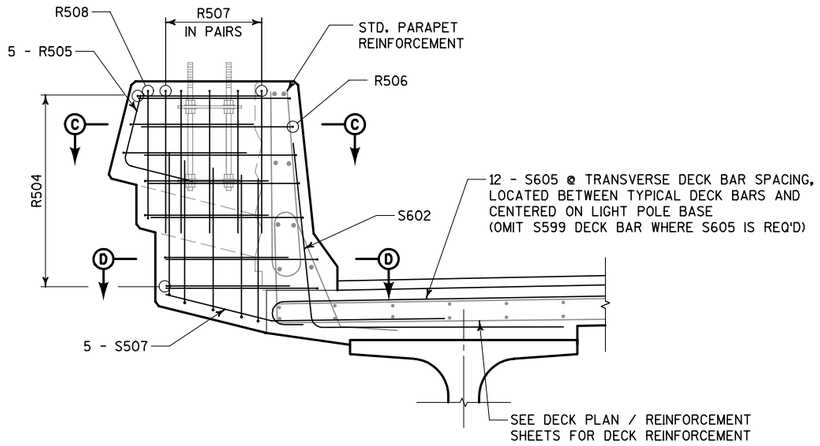


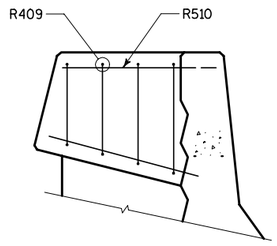
SECTION B-B



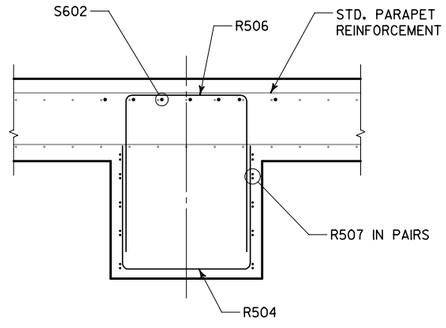
SECTION C-C



SECTION A-A



SIDE FACE DETAIL



SECTION D-D

NOTES

1. SEE SHEET 3 & 4 FOR GENERAL NOTES.
2. EXCEPT AS NOTED BELOW, LIGHT POLE BASES ARE INCLUDED WITH (AND CONSIDERED INCIDENTAL TO) ITEM SPV.0090.2040 AND SPV.00900.2045 - PARAPET BRIDGE TYPE LF AND HF.
3. SUPPLY OF LIGHT POLE ANCHOR ASSEMBLIES IS COVERED UNDER SEPARATE PAY ITEM(S). INSTALLATION OF ANCHOR ASSEMBLIES IS CONSIDERED INCIDENTAL TO THE PARAPET BRIDGE PAY ITEM(S).
4. LIGHT POLE INSTALLATION IS COVERED UNDER A SEPARATE PAY ITEM.
5. REINFORCEMENT MARKS STARTING WITH 'R' ARE INCLUDED UNDER THE PARAPET BRIDGE PAY ITEMS. ALL OTHER MARK PREFIXES ARE COVERED UNDER OTHER PAY ITEM(S).

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

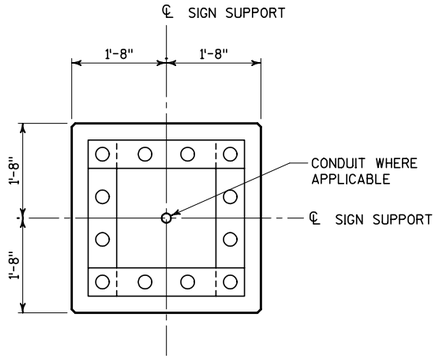
HF PARAPET
LIGHT POLE BASE
REINFORCEMENT

SHEET 376 OF 396

3244

STATE PROJECT NUMBER

1060-05-75



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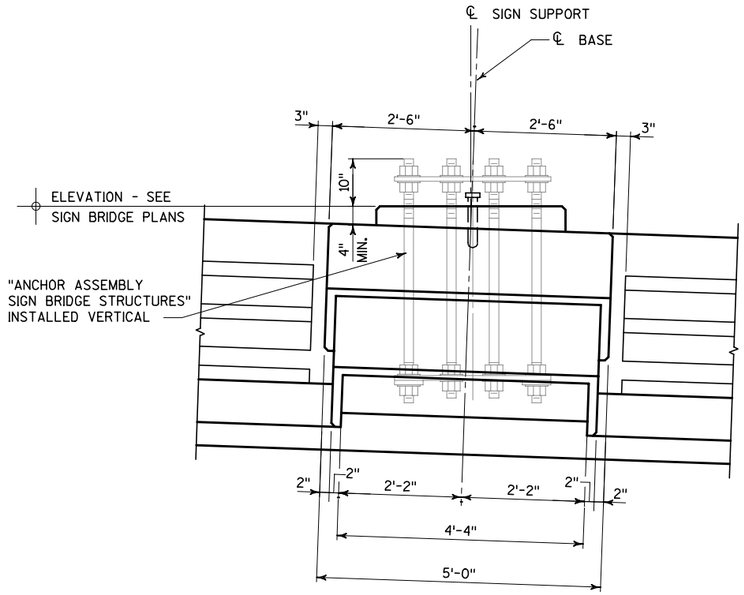

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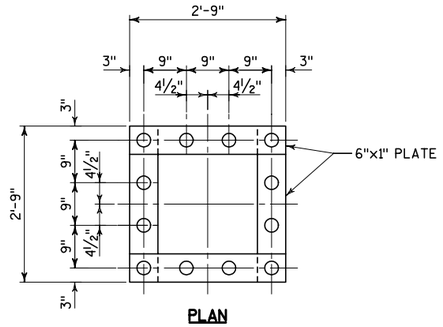
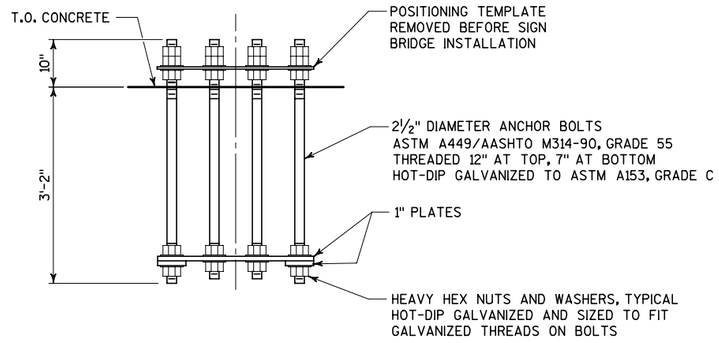


PLAN

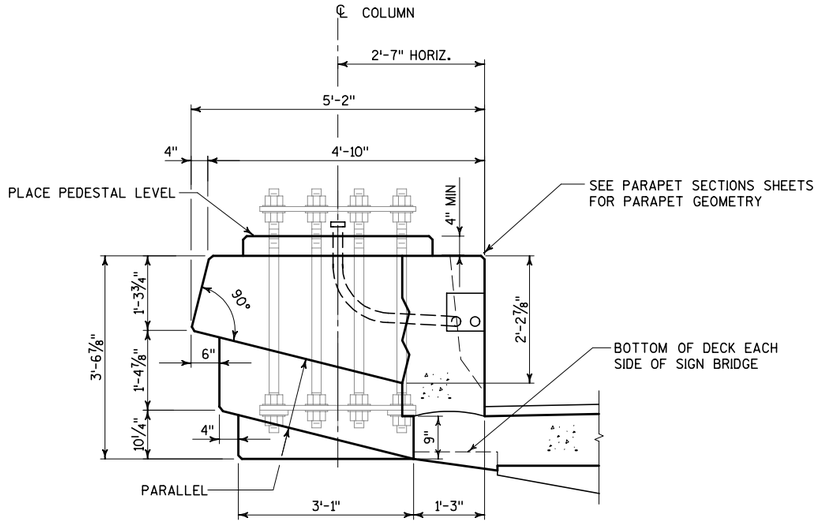


ELEVATION

ANCHOR ASSEMBLY SIGN BRIDGE STRUCTURES

NOT TO SCALE

PLAN



SECTION A-A

NOTES

1. SEE SHEET 3 AND 4 FOR GENERAL NOTES.
2. EXCEPT AS NOTED BELOW, SIGN BRIDGE BASES ARE INCLUDED WITH (AND CONSIDERED INCIDENTAL TO) ITEM SPV.0090.2040 - PARAPET BRIDGE TYPE LF.
3. SUPPLY OF SIGN BRIDGE ANCHOR ASSEMBLIES IS COVERED UNDER SEPARATE PAY ITEM(S). INSTALLATION OF ANCHOR ASSEMBLIES IS CONSIDERED INCIDENTAL TO ITEM SPV.0090.2040.
4. SIGN BRIDGE INSTALLATION IS COVERED UNDER SEPARATE PAY ITEM(S).

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

LF PARAPET
SIGN BRIDGE BASE
LAYOUT

SHEET 377 OF 396

3245

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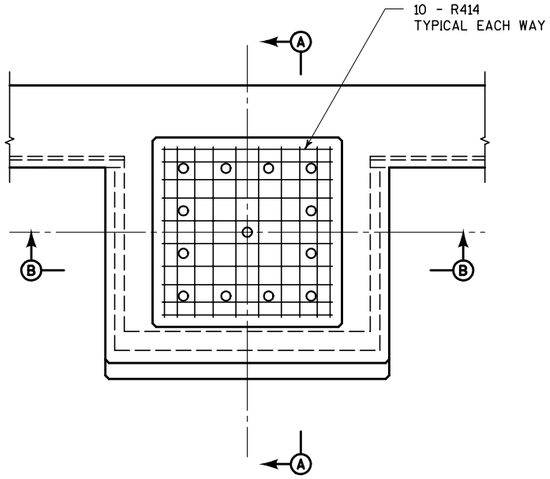
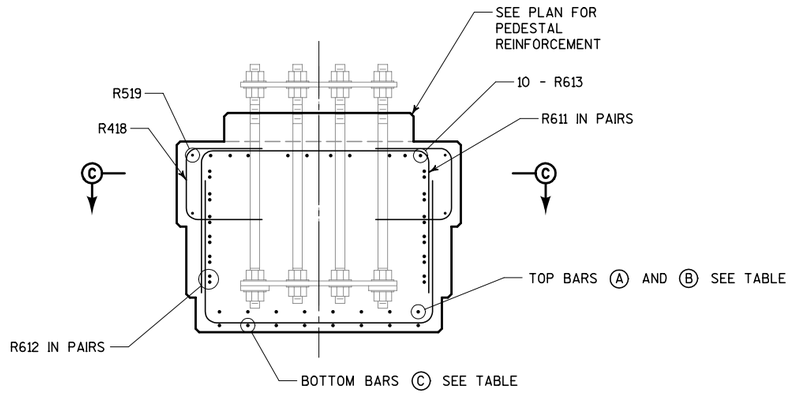
STATE PROJECT NUMBER
1060-05-75

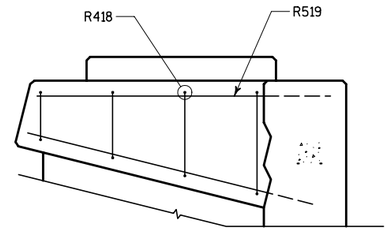


PLAN

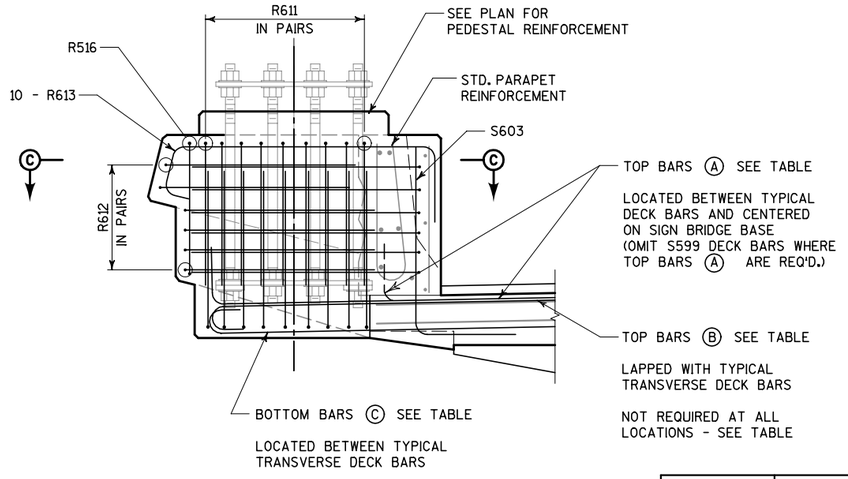
(SHOWING PEDESTAL REINFORCEMENT ONLY)



SECTION B-B

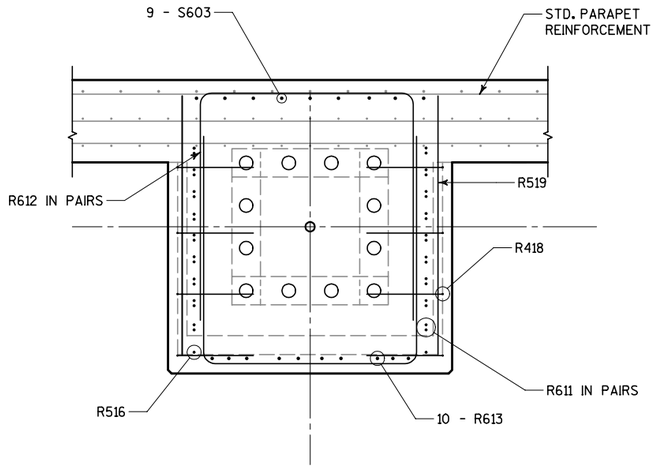


SIDE FACE DETAIL



SECTION A-A

STRUCTURE	BAR TYPES		
	(A)	(B)	(C)
S-40-533	26 - S710		6 - S515
S-40-534	26 - S811		6 - S616
S-40-535	28 - S811	6 - S616	6 - S817



SECTION C-C

NOTES

1. SEE SHEET 3 AND 4 FOR GENERAL NOTES.
2. EXCEPT AS NOTED BELOW, SIGN BRIDGE BASES ARE INCLUDED WITH (AND CONSIDERED INCIDENTAL TO) ITEM SPV.0090.2040 - PARAPET BRIDGE TYPE LF.
3. SUPPLY OF SIGN BRIDGE ANCHOR ASSEMBLIES IS COVERED UNDER SEPARATE PAY ITEM(S). INSTALLATION OF ANCHOR ASSEMBLIES IS CONSIDERED INCIDENTAL TO ITEM SPV.0090.2040.
4. SIGN BRIDGE INSTALLATION IS COVERED UNDER SEPARATE PAY ITEM(S).
5. REINFORCEMENT MARKS STARTING WITH 'R' ARE INCLUDED UNDER SPV.0090.2040. ALL OTHER MARK PREFIXES ARE COVERED UNDER OTHER PAY ITEMS.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	2004	DRAWN BY	EKM	PLANS CK'D.	KES

LF PARAPET
SIGN BRIDGE BASE
REINFORCEMENT

SHEET 378 OF 396

3246

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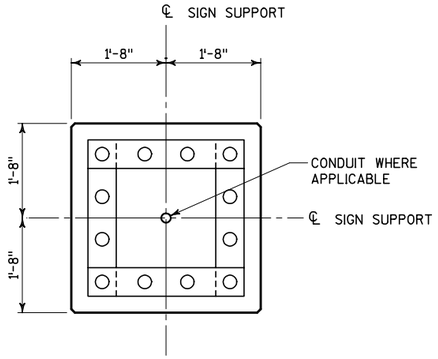
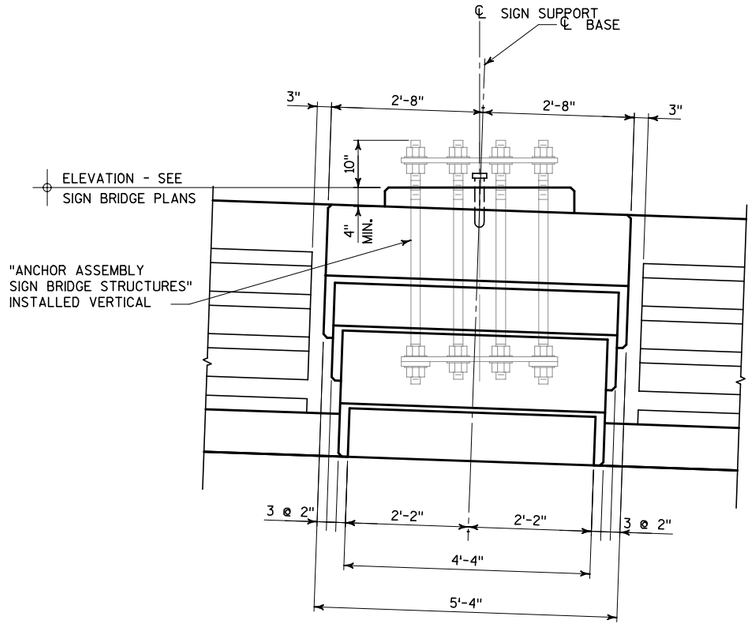
STATE PROJECT NUMBER

1060-05-75



PEDESTAL PLAN



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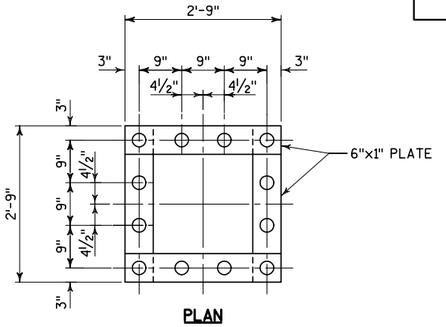
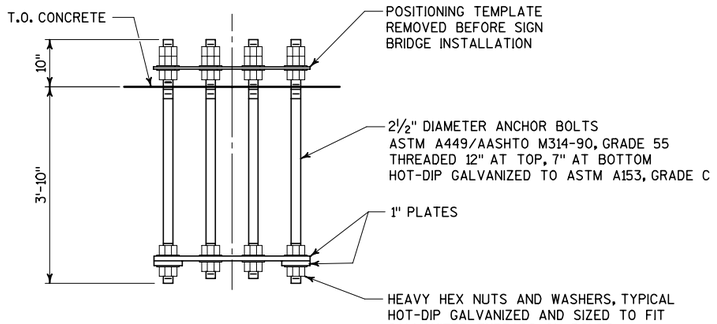


PLAN



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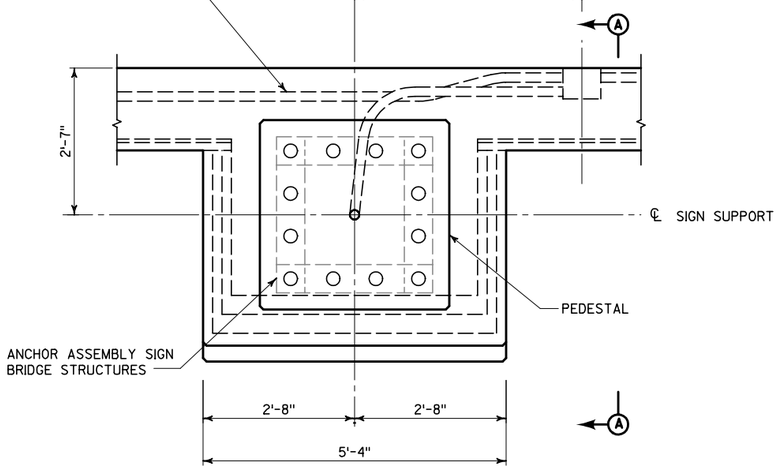

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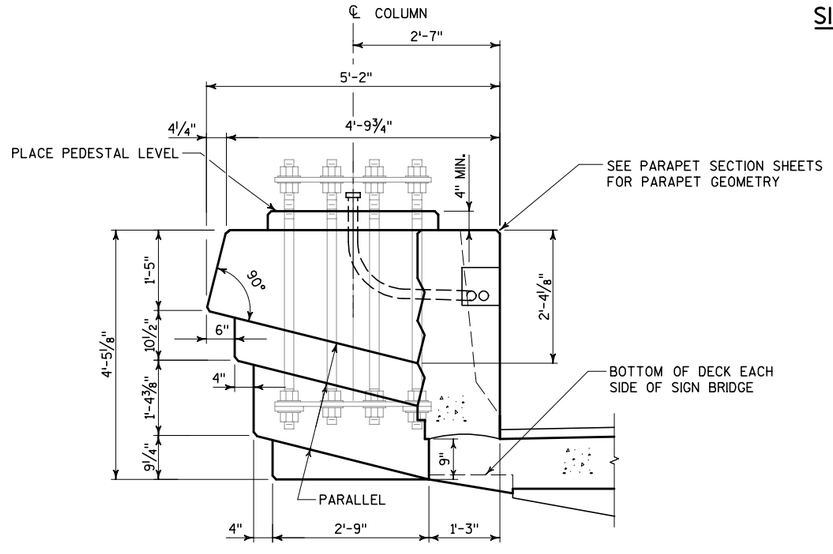

SECTION A-A

ANCHOR ASSEMBLY SIGN BRIDGE STRUCTURES

NOT TO SCALE

SEE NEXT SHEET FOR ANCHOR ASSEMBLY FOR SIGN STRUCTURE S-40-718. THE DETAIL ON THIS SHEET APPLIES TO ALL OTHER SIGN BASE LOCATIONS.

NOTES

1. SEE SHEET 3 AND 4 FOR GENERAL NOTES.
2. EXCEPT AS NOTED BELOW, SIGN BRIDGE BASES ARE INCLUDED WITH (AND CONSIDERED INCIDENTAL TO) ITEM SPV.0090.2045 - PARAPET BRIDGE TYPE HF.
3. SUPPLY OF SIGN BRIDGE ANCHOR ASSEMBLIES IS COVERED UNDER SEPARATE PAY ITEM(S). INSTALLATION OF ANCHOR ASSEMBLIES IS CONSIDERED INCIDENTAL TO ITEM SPV.0090.2045.
4. SIGN BRIDGE INSTALLATION IS COVERED UNDER SEPARATE PAY ITEM(S).

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

HF PARAPET SIGN BRIDGE BASE LAYOUT

SHEET 379 OF 396

3247

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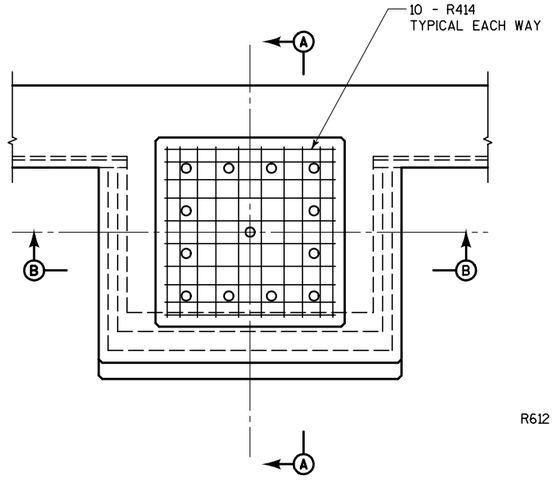
STATE PROJECT NUMBER

1060-05-75



PLAN

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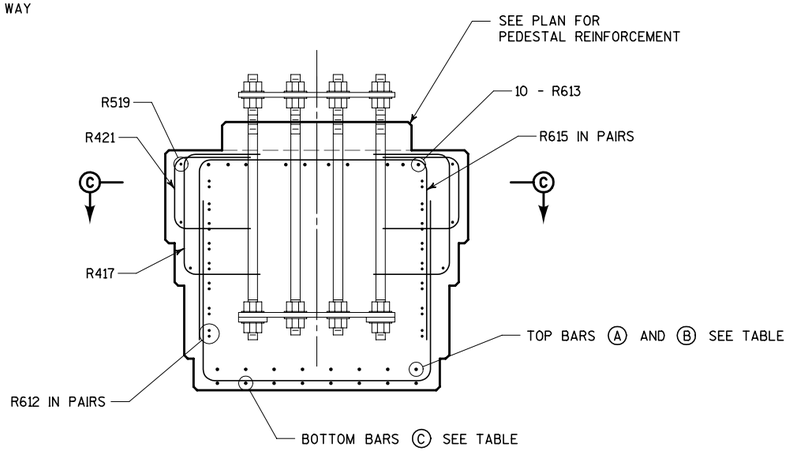
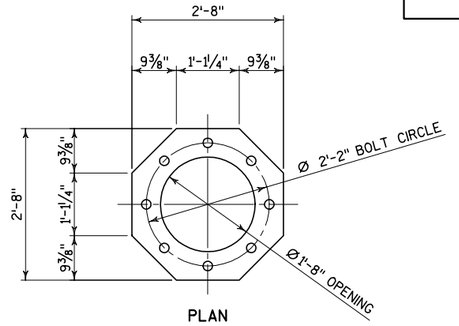


SECTION B-B



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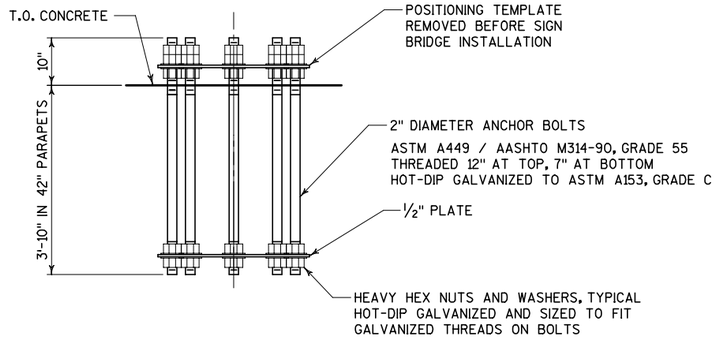

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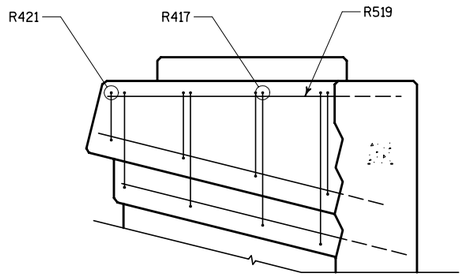
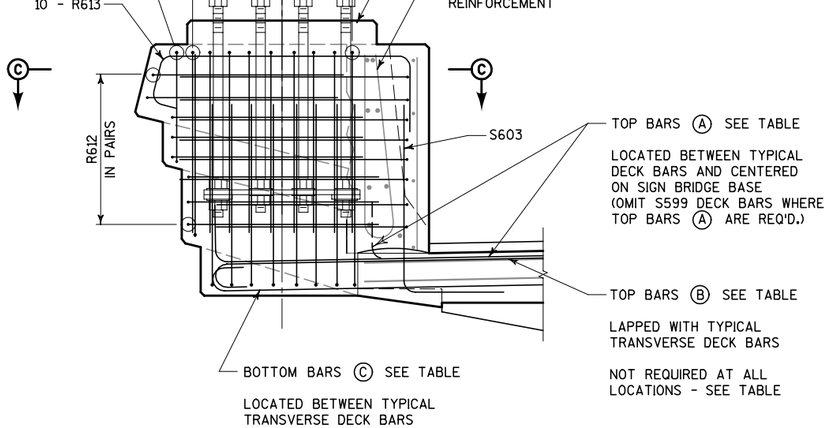


SIDE FACE DETAIL

ANCHOR ASSEMBLY
SIGN BRIDGE STRUCTURES

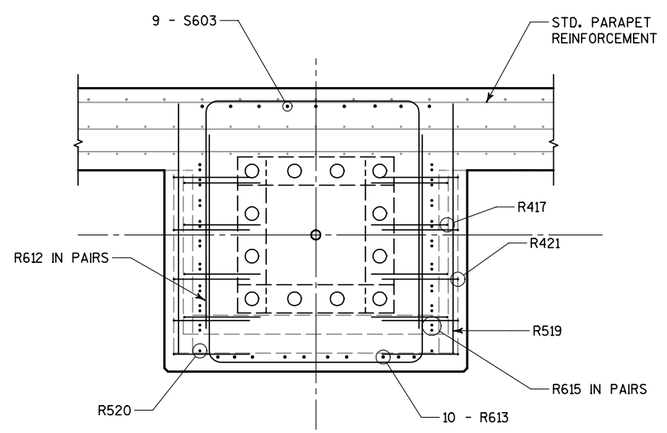
NOT TO SCALE

THIS DETAIL IS FOR SIGN STRUCTURE S-40-718 ONLY.



SECTION A-A

STRUCTURE	BAR TYPES		
	(A)	(B)	(C)
S-40-533	26 - S710		6 - S515
S-40-534	26 - S811		6 - S616
S-40-535	28 - S811	6 - S616	6 - S817
S-40-536	26 - S710		6 - S515
S-40-537	30 - S811	6 - S616	6 - S616
S-40-538	32 - S811	6 - S817	6 - S817
S-40-540	28 - S811	6 - S817	6 - S817
S-40-718	26 - S710		6 - S515



SECTION C-C

NOTES

1. SEE SHEET 3 AND 4 FOR GENERAL NOTES.
2. EXCEPT AS NOTED BELOW, SIGN BRIDGE BASES ARE INCLUDED WITH (AND CONSIDERED INCIDENTAL TO) ITEM SPV.0090.2045 - PARAPET BRIDGE TYPE HF.
3. SUPPLY OF SIGN BRIDGE ANCHOR ASSEMBLIES IS COVERED UNDER SEPARATE PAY ITEM(S). INSTALLATION OF ANCHOR ASSEMBLIES IS CONSIDERED INCIDENTAL TO ITEM SPV.0090.2045.
4. SIGN BRIDGE INSTALLATION IS COVERED UNDER SEPARATE PAY ITEM(S).
5. REINFORCEMENT MARKS STARTING WITH 'R' ARE INCLUDED UNDER SPV.0090.2045. ALL OTHER MARK PREFIXES ARE COVERED UNDER OTHER PAY ITEMS.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

HF PARAPET
SIGN BRIDGE BASE
REINFORCEMENT

SHEET 380 OF 396

3248

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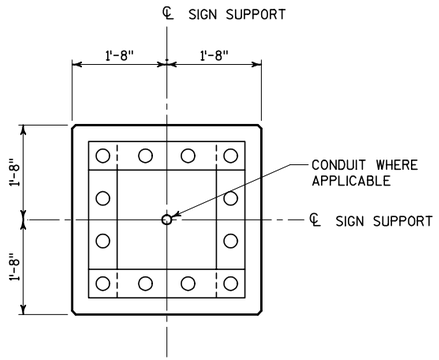
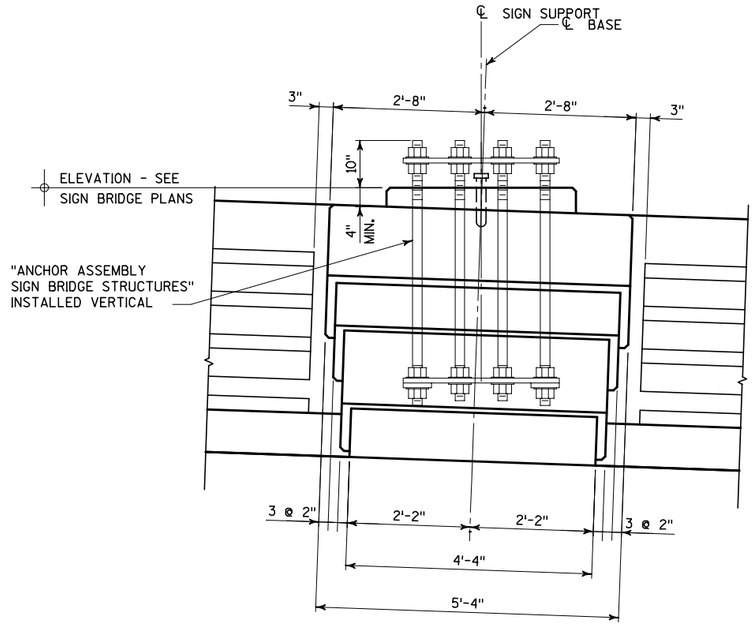
STATE PROJECT NUMBER

1060-05-75



PEDESTAL PLAN



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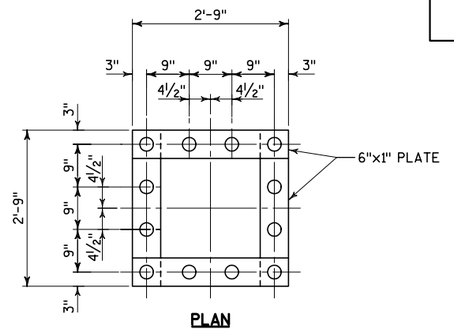
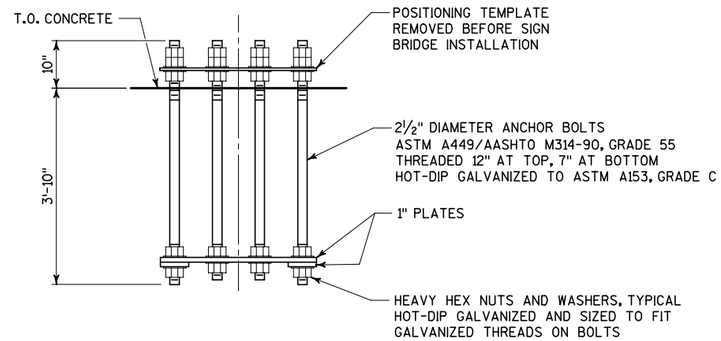


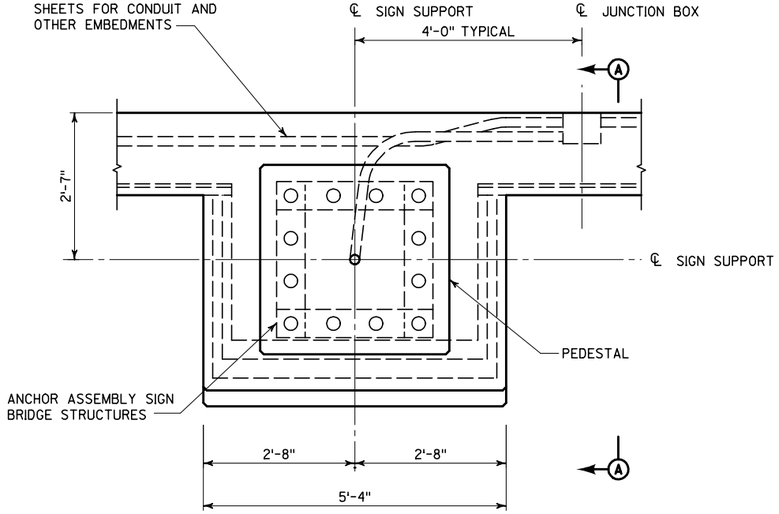
PLAN



ELEVATION

ANCHOR ASSEMBLY SIGN BRIDGE STRUCTURES

NOT TO SCALE



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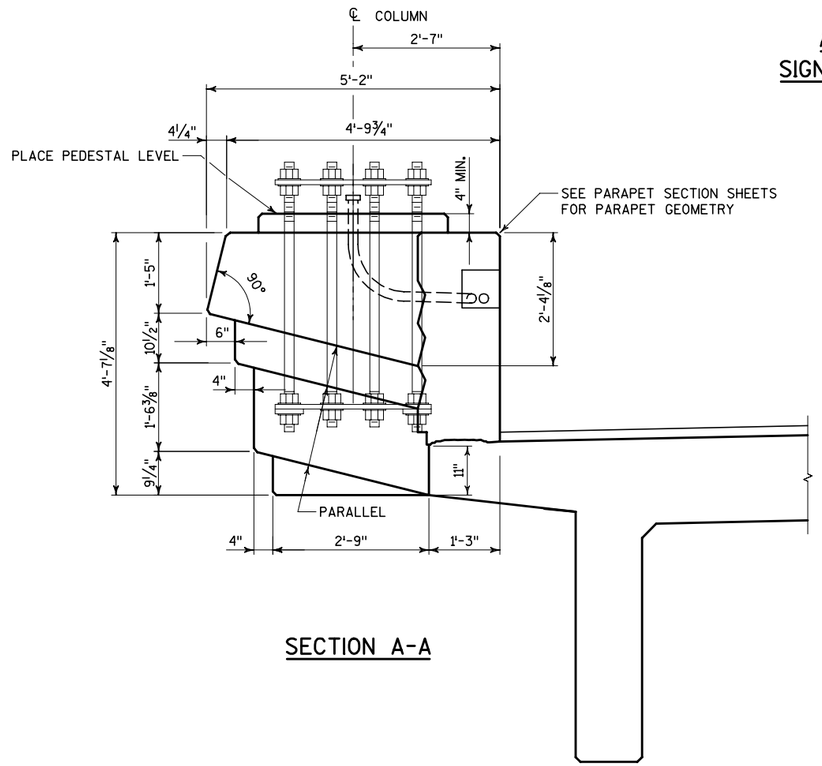

SECTION A-A

NOTES

1. SEE SHEET 3 AND 4 FOR GENERAL NOTES.
2. EXCEPT AS NOTED BELOW, SIGN BRIDGE BASES ARE INCLUDED WITH (AND CONSIDERED INCIDENTAL TO) ITEM SPV.0090.2045 - PARAPET BRIDGE TYPE HF.
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4. SIGN BRIDGE INSTALLATION IS COVERED UNDER SEPARATE PAY ITEM(S).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

HF PARAPET SIGN BRIDGE BASE AT SLAB STRUCTURE

SHEET 381 OF 396

3249

8

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STATE PROJECT NUMBER
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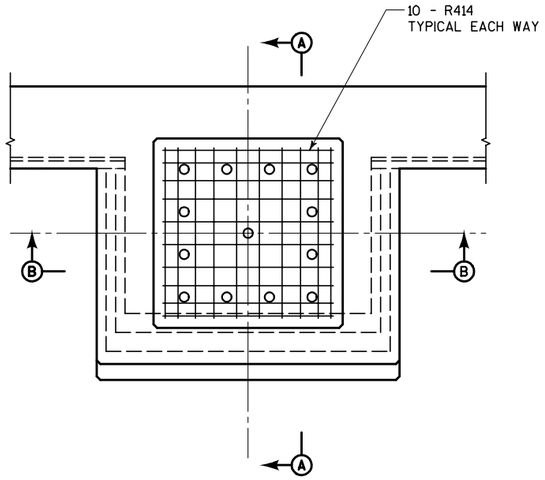

PLAN

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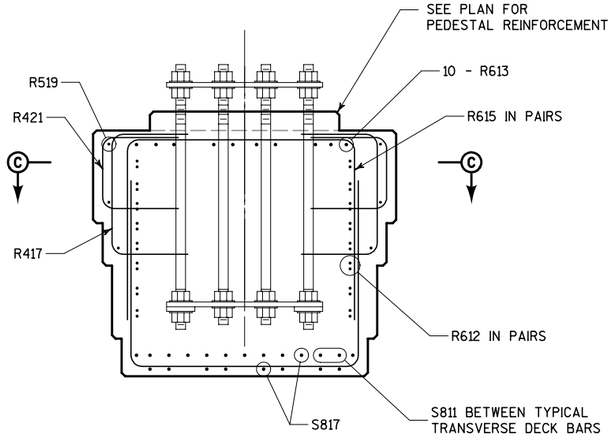
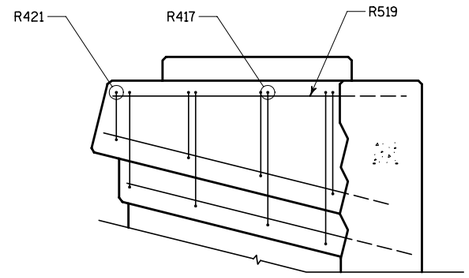
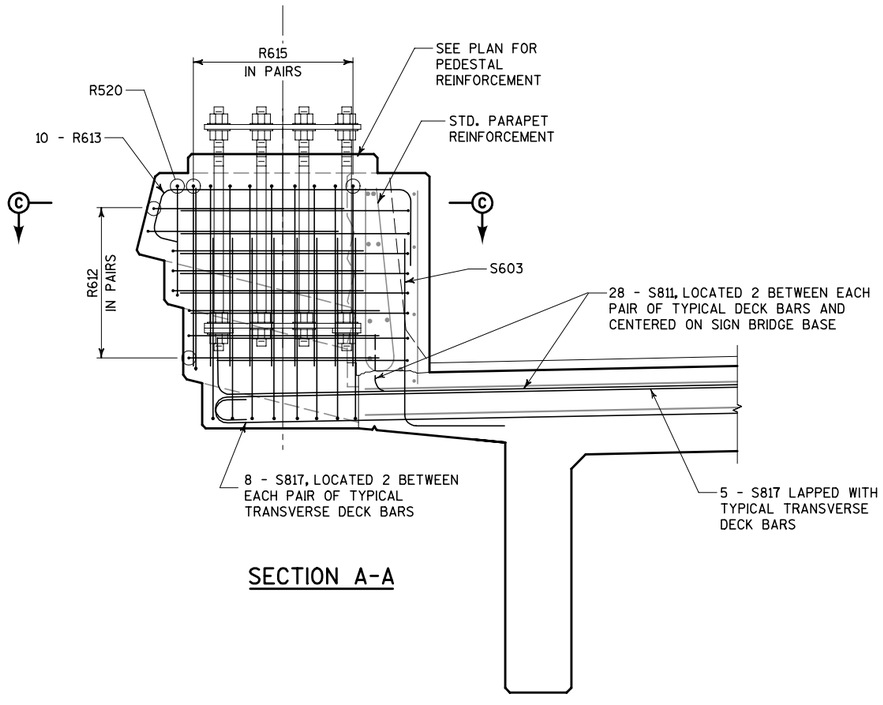


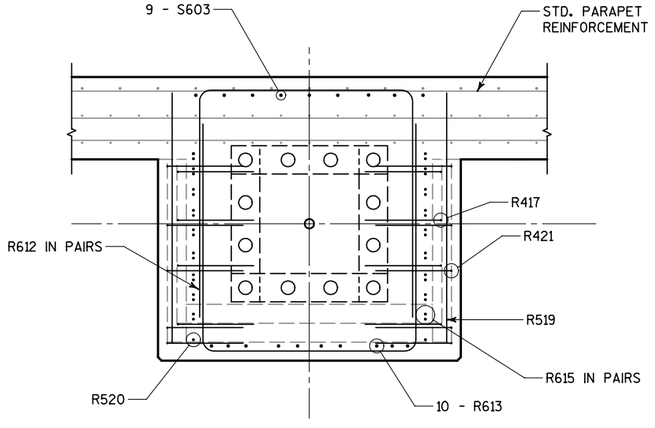
SECTION B-B



SIDE FACE DETAIL



SECTION A-A



SECTION C-C

NOTES

1. SEE SHEET 3 FOR GENERAL NOTES.
2. EXCEPT AS NOTED BELOW, SIGN BRIDGE BASES ARE INCLUDED WITH (AND CONSIDERED INCIDENTAL TO) ITEM SPV.0090.2045 - PARAPET BRIDGE TYPE HF.
3. SUPPLY OF SIGN BRIDGE ANCHOR ASSEMBLIES IS COVERED UNDER SEPARATE PAY ITEM(S). INSTALLATION OF ANCHOR ASSEMBLIES IS CONSIDERED INCIDENTAL TO ITEM SPV.0090.2045.
4. SIGN BRIDGE INSTALLATION IS COVERED UNDER SEPARATE PAY ITEM(S).
5. REINFORCEMENT MARKS STARTING WITH 'R' ARE INCLUDED UNDER SPV.0090.2045. ALL OTHER MARK PREFIXES ARE COVERED UNDER OTHER PAY ITEMS.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

HF PARAPET SIGN BRIDGE BASE REINF. AT SLAB STRUCTURE

SHEET 382 OF 396

3250

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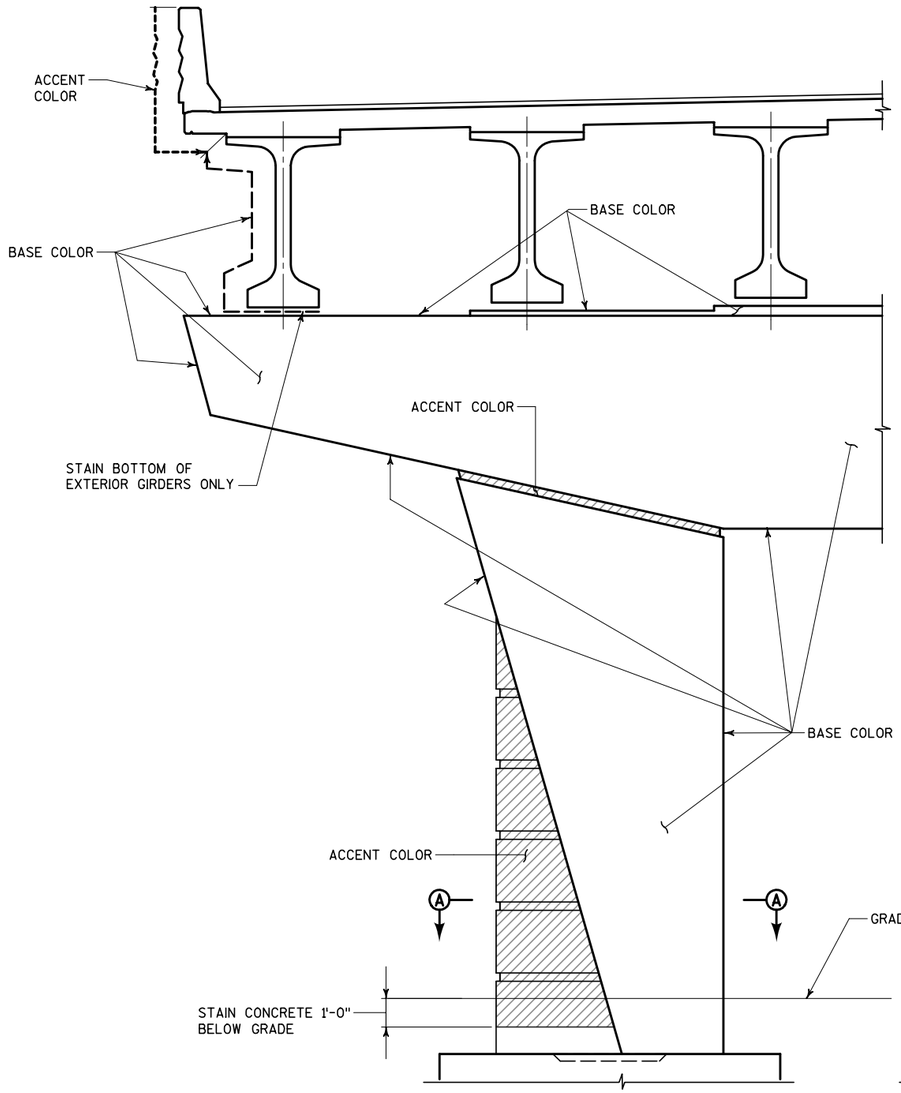
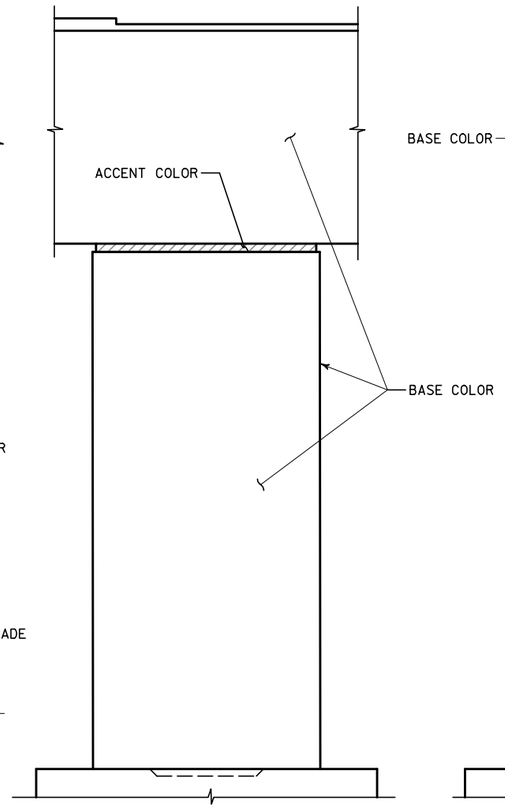
STATE PROJECT NUMBER
1060-05-75



PARTIAL ELEVATION



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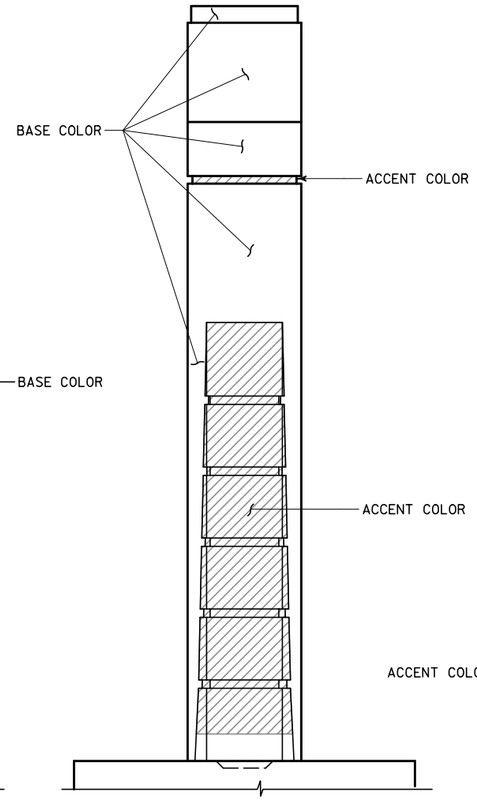

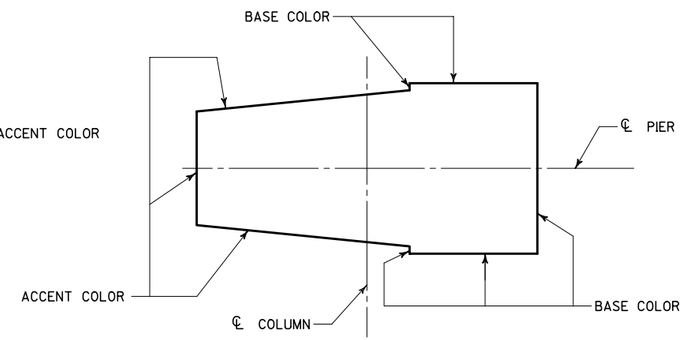

SECTION A-A

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC. 2004	DRAWN BY DJS	PLANS CK'D. KES

CONCRETE STAINING DETAILS 1

SHEET 383 OF 396

3251

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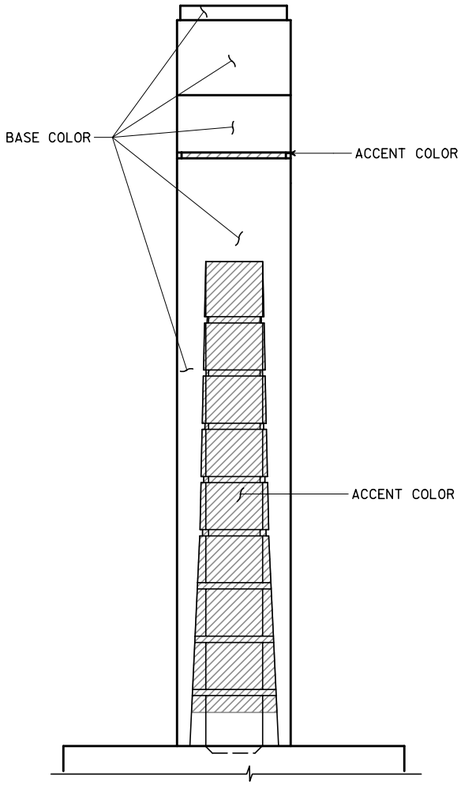

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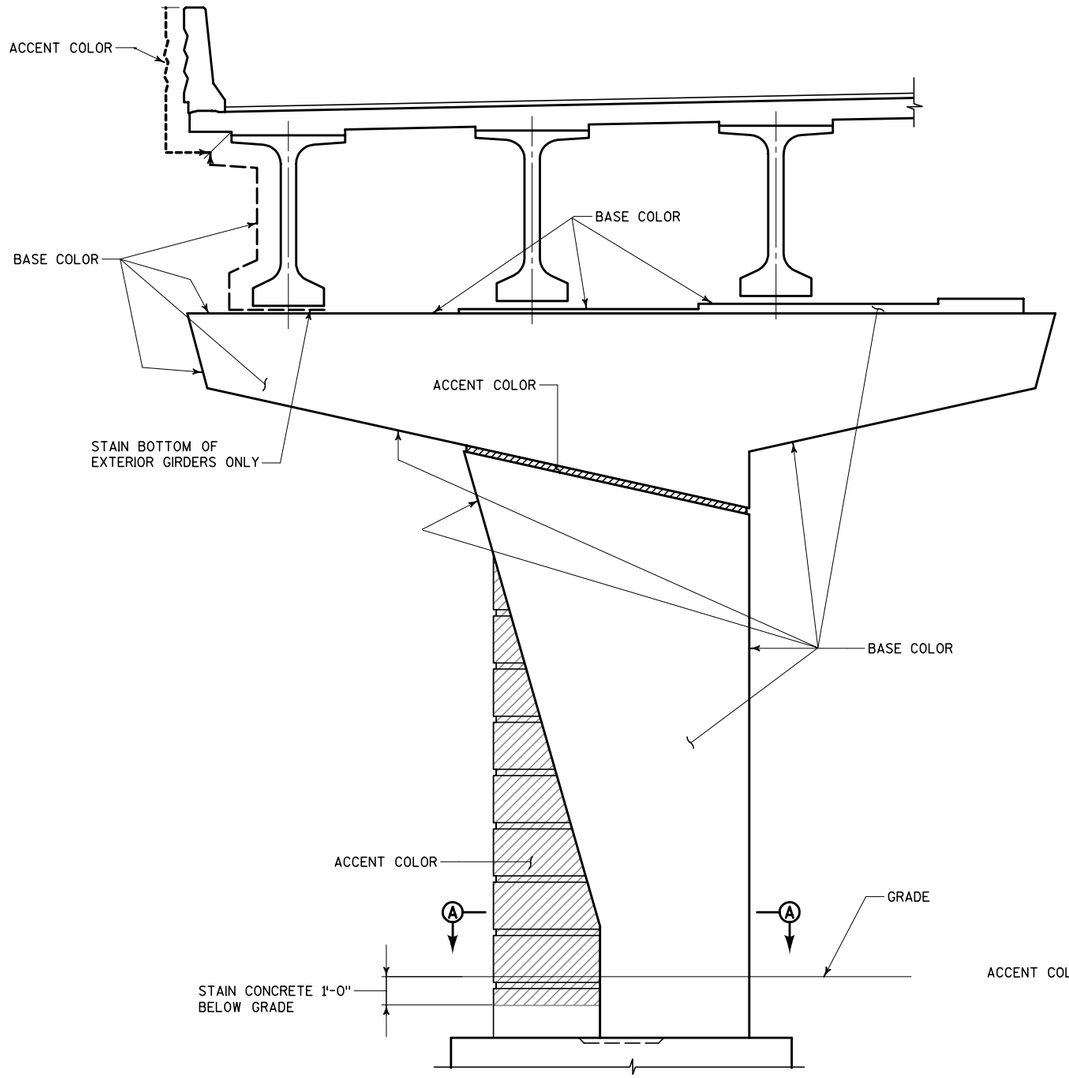

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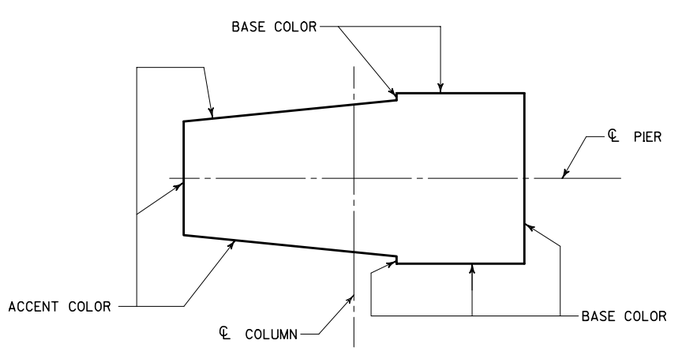

SECTION A-A

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC. 2004	DRAWN BY DJS	PLANS CK'D. KES

CONCRETE STAINING DETAILS 2

SHEET 384 OF 396

3252

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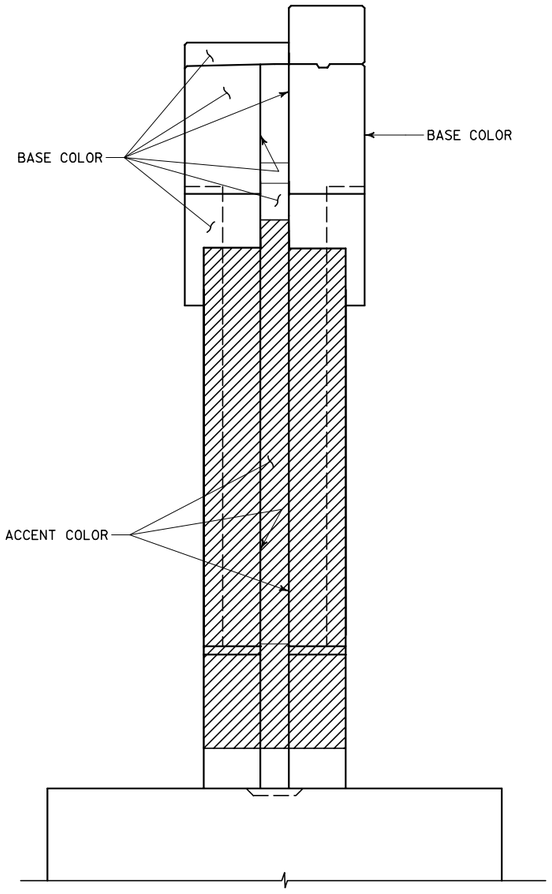
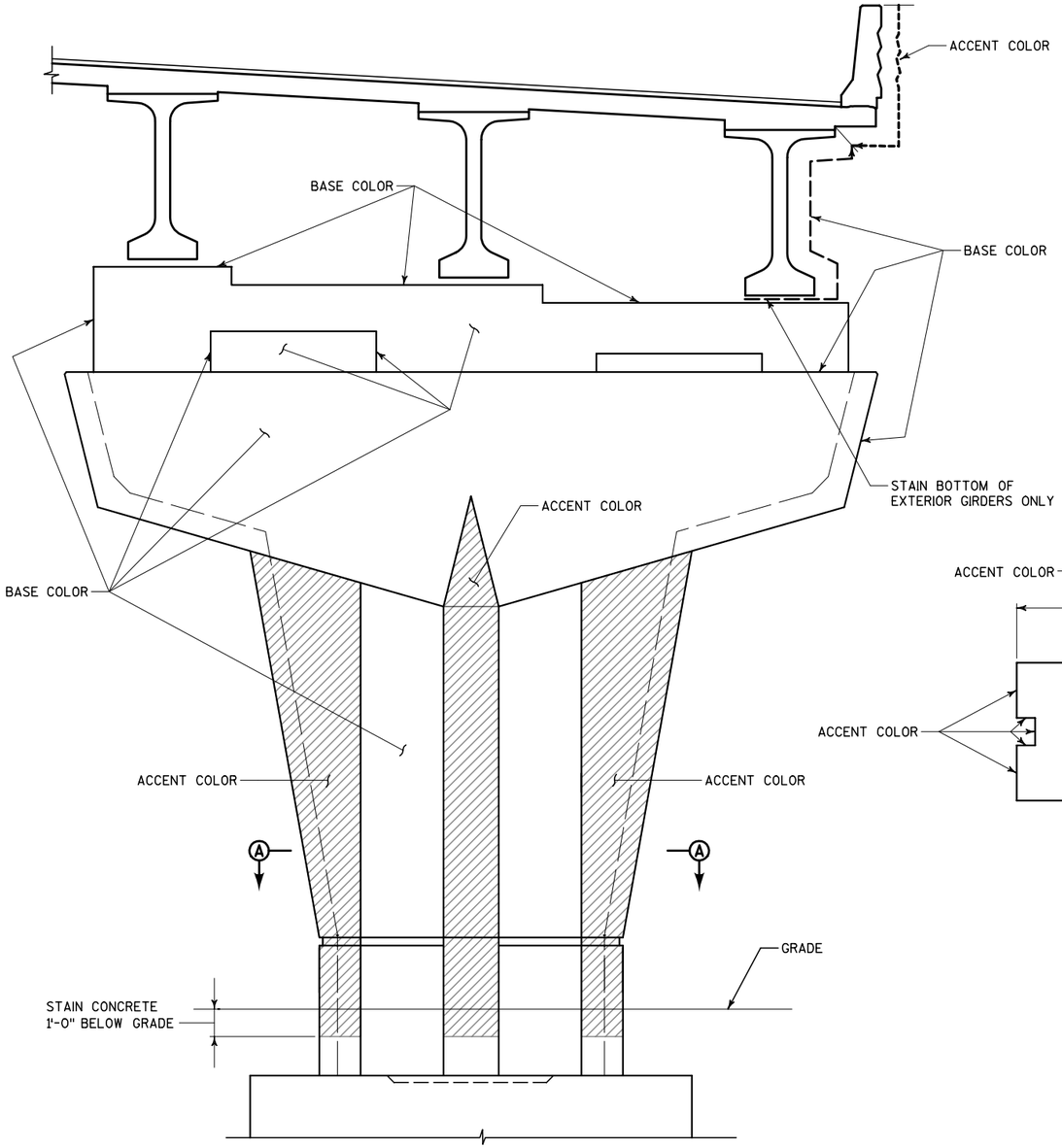


END VIEW



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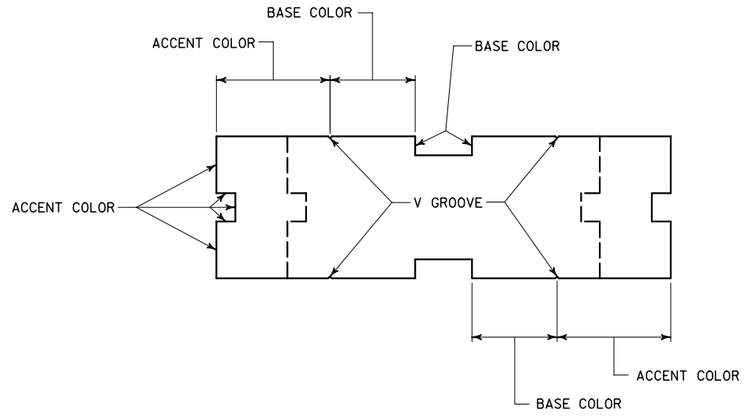

SECTION A-A

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC. 2004	DRAWN BY DJS	PLANS CK'D. KES

CONCRETE STAINING DETAILS 3

SHEET 385 OF 396

3253

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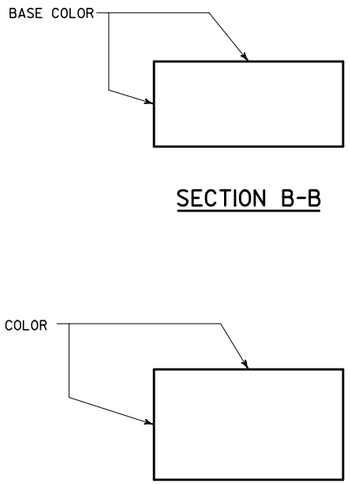
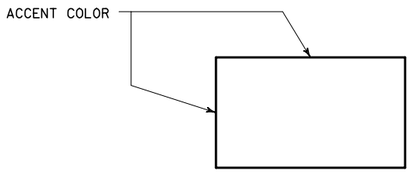
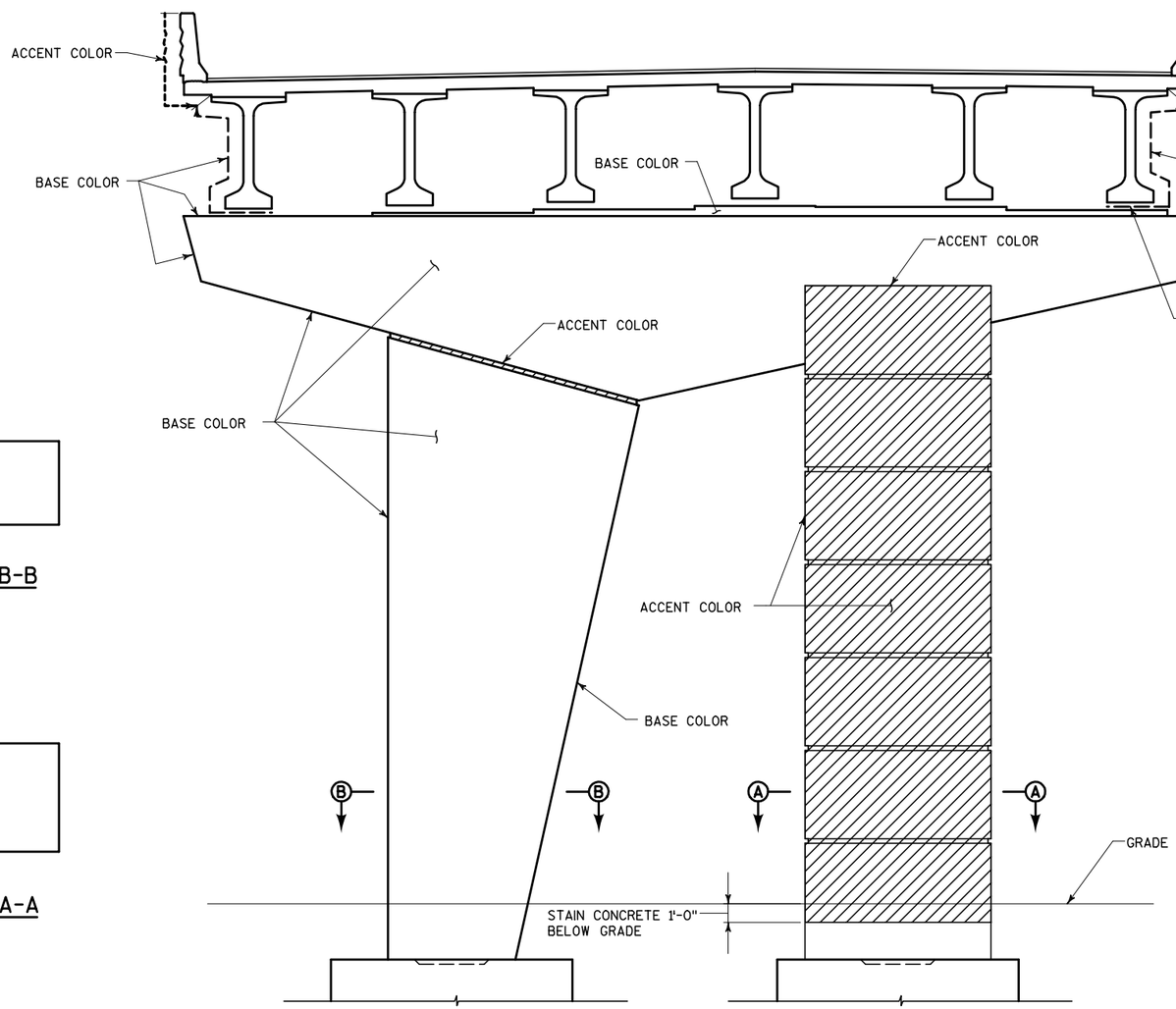
STATE PROJECT NUMBER
1060-05-75



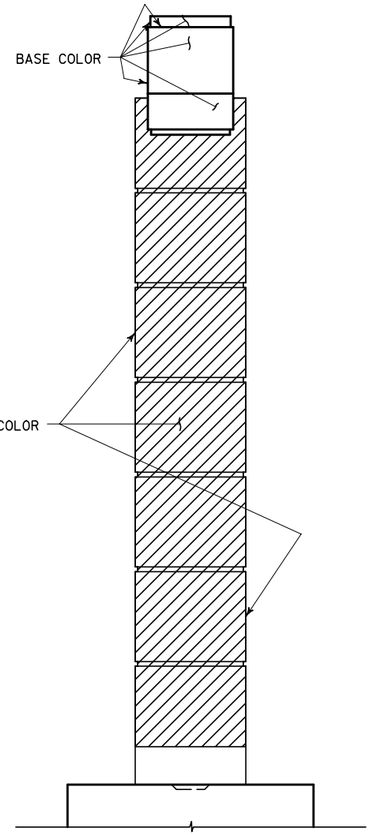
SECTION B-B



SECTION A-A



ELEVATION



END VIEW

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC. 2004	DRAWN BY DJS	PLANS CK'D. KES

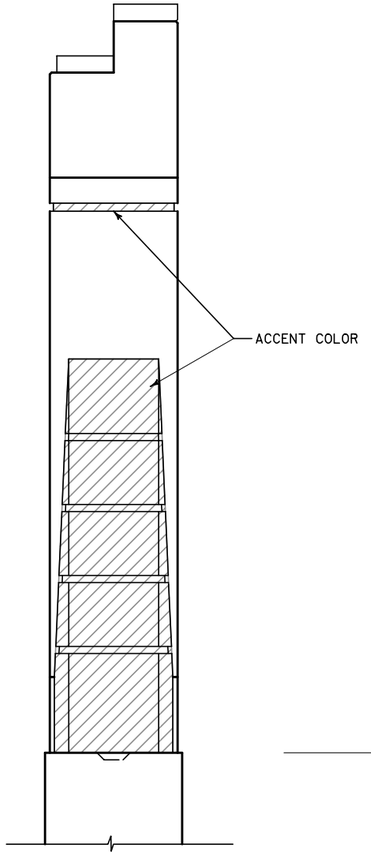
CONCRETE STAINING DETAILS 4

SHEET 386 OF 396

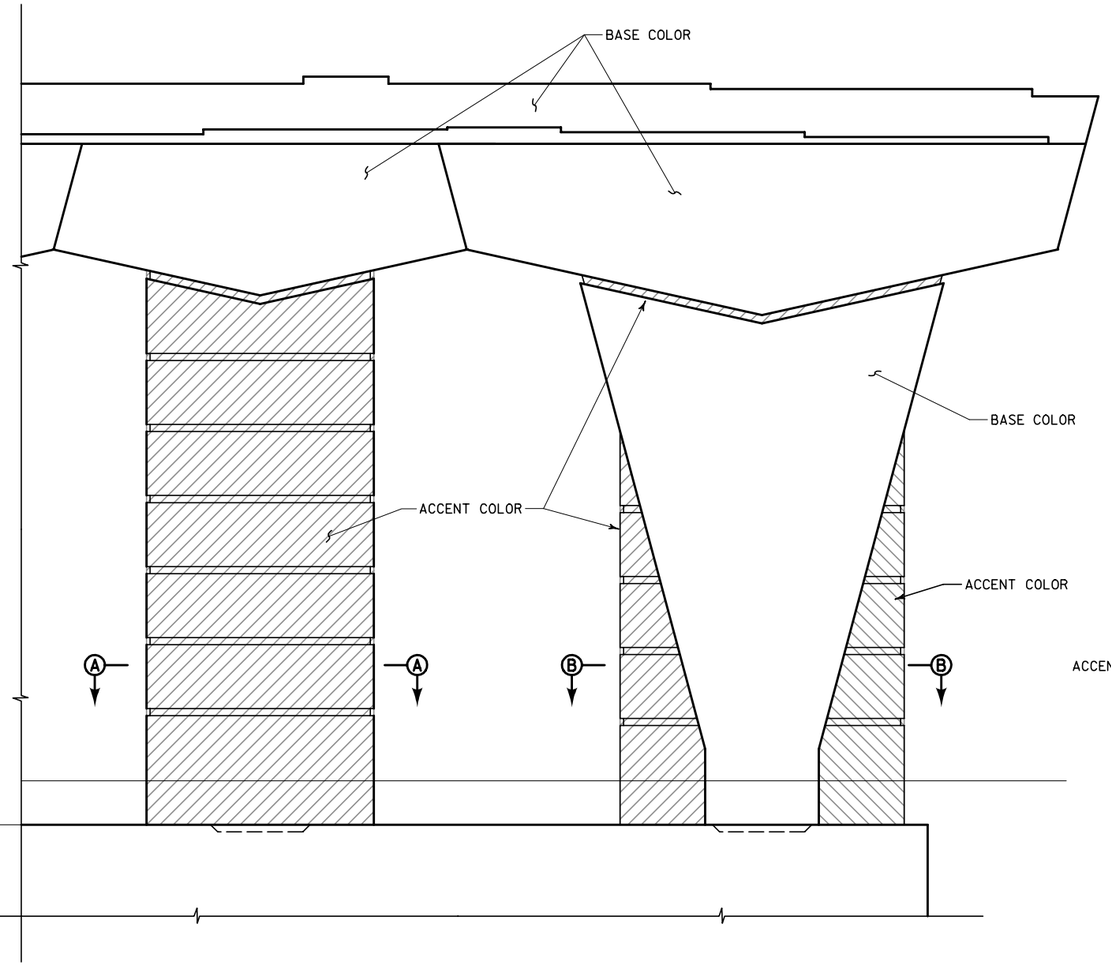
3254

8

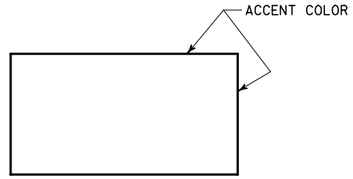
STATE PROJECT NUMBER
1060-05-75



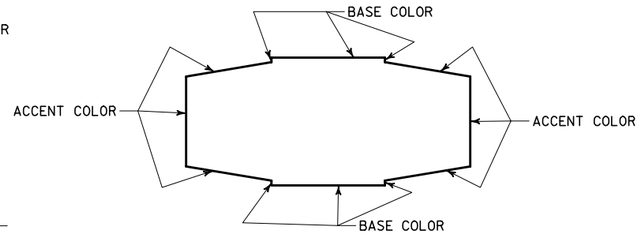
END VIEW



PARTIAL ELEVATION



SECTION A-A



SECTION B-B

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC. 2004	DRAWN BY DJS	PLANS CK'D. KES

CONCRETE STAINING DETAILS 5

SHEET 387 OF 396

3255

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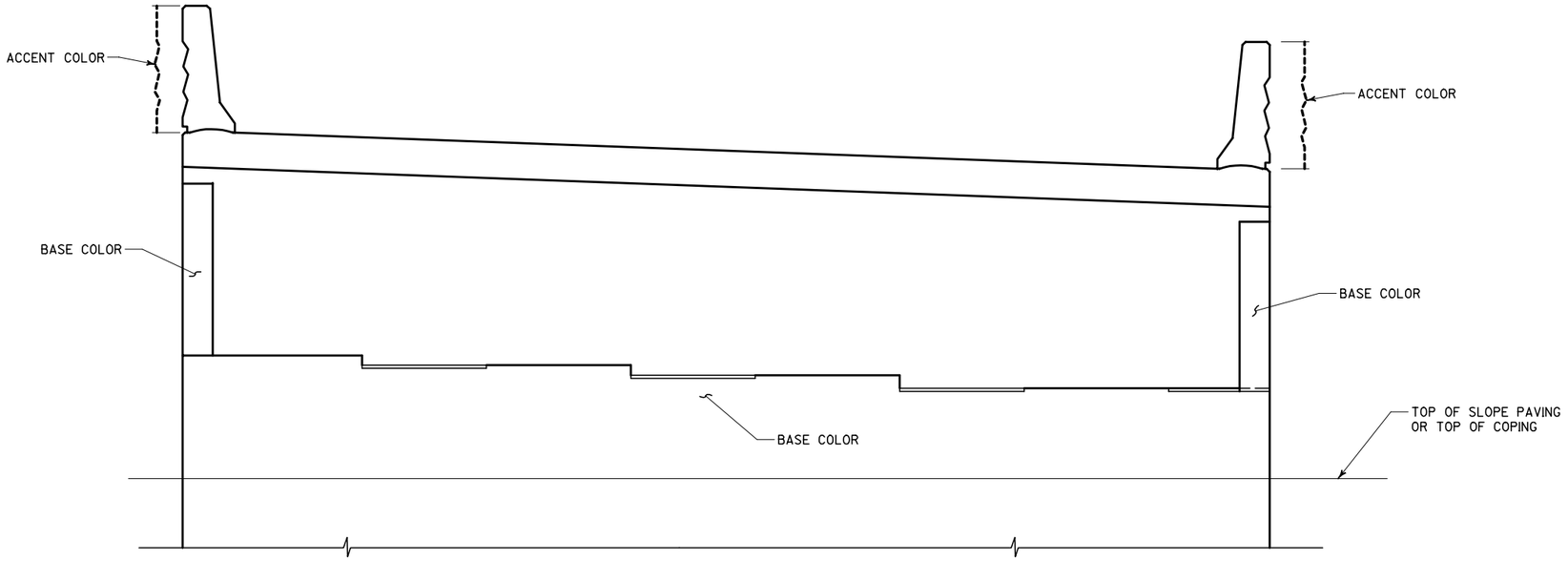
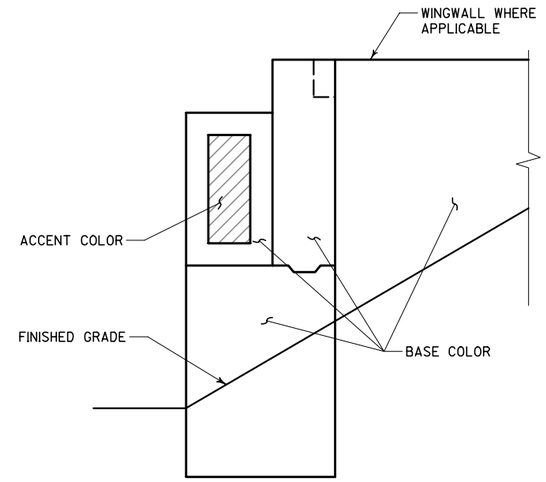
STATE PROJECT NUMBER
1060-05-75



ABUTMENT ELEVATION



END VIEW
ABUT. A1-001

ABUT. A1-006 STAINED
SIMILAR - NO WING

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC. 2004	DRAWN BY EKM	PLANS CK'D. KES

CONCRETE STAINING DETAILS 6

SHEET 388 OF 396

3256

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STATE PROJECT NUMBER
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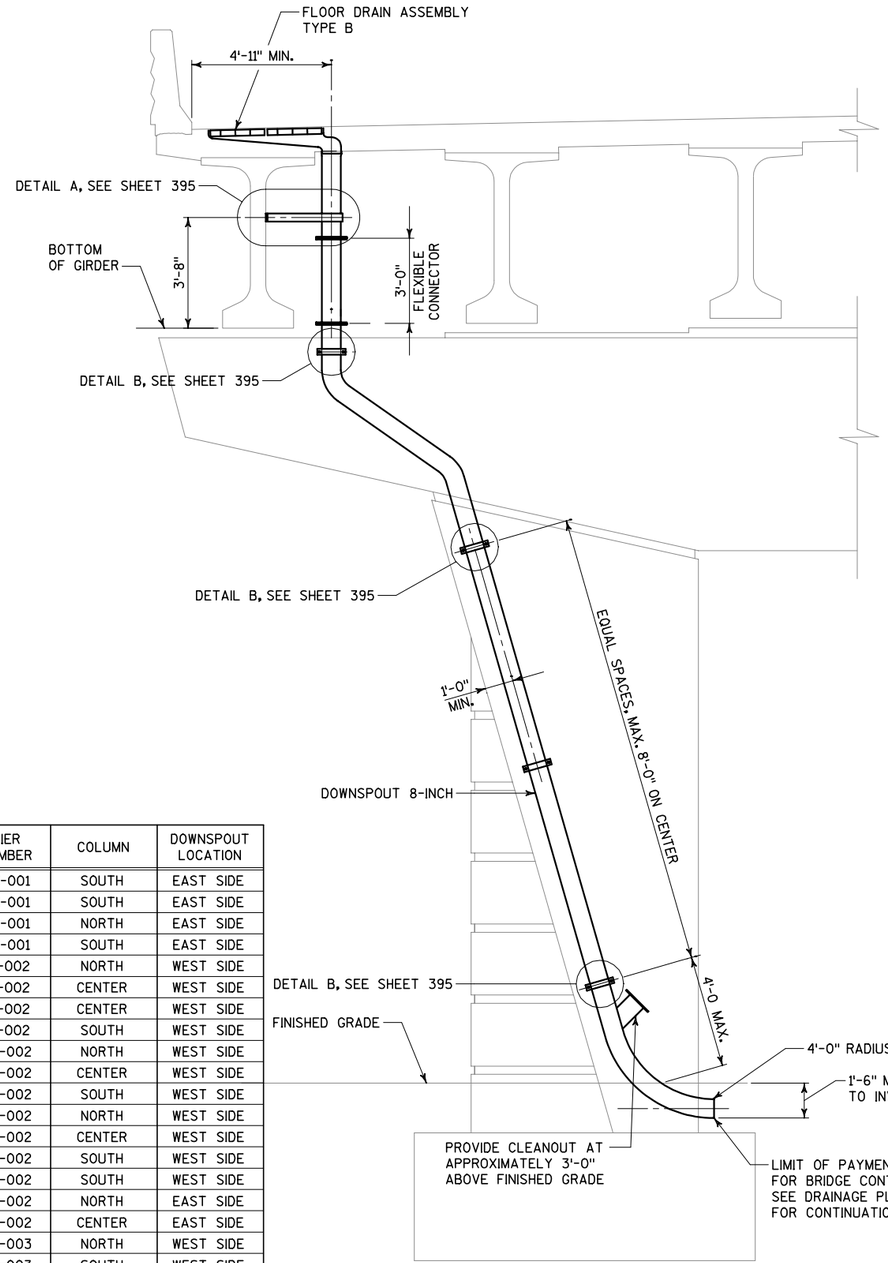
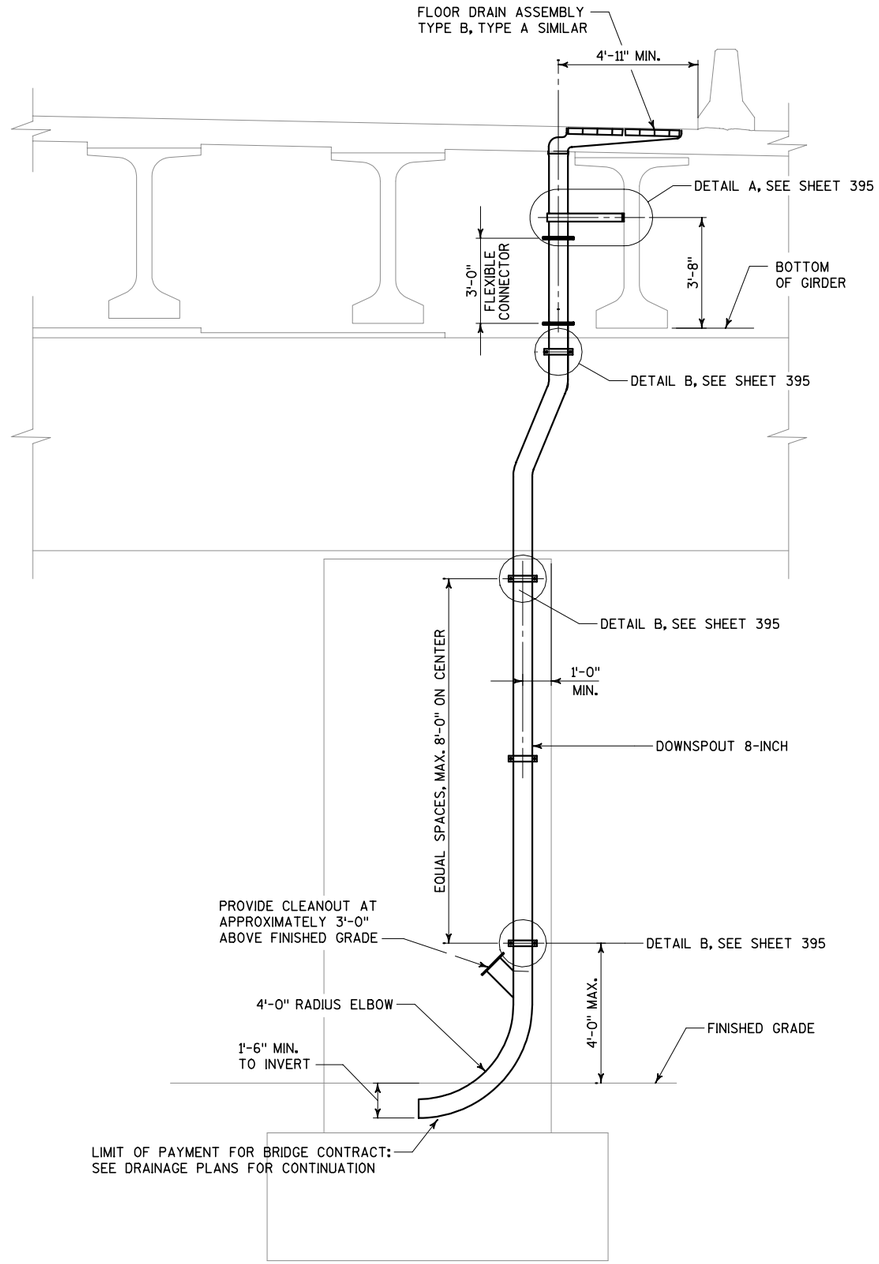


PARTIAL ELEVATION

UNIT	PIER NUMBER	COLUMN	DOWNSPOUT LOCATION
001	P3-001	SOUTH	EAST SIDE
001	P4-001	SOUTH	EAST SIDE
001	P7-001	NORTH	EAST SIDE
001	P7-001	SOUTH	EAST SIDE
002	P1-002	NORTH	WEST SIDE
002	P1-002	CENTER	WEST SIDE
002	P1-002	CENTER	WEST SIDE
002	P1-002	SOUTH	WEST SIDE
002	P3-002	NORTH	WEST SIDE
002	P3-002	CENTER	WEST SIDE
002	P3-002	SOUTH	WEST SIDE
002	P5-002	NORTH	WEST SIDE
002	P5-002	CENTER	WEST SIDE
002	P5-002	SOUTH	WEST SIDE
002	P6-002	SOUTH	WEST SIDE
003	P6-002	NORTH	EAST SIDE
003	P6-002	CENTER	EAST SIDE
003	P2-003	NORTH	WEST SIDE
003	P2-003	SOUTH	WEST SIDE
003	P3-003	NORTH	EAST SIDE
003	P3-003	SOUTH	EAST SIDE
003	P5-003	NORTH	WEST SIDE
003	P5-003	SOUTH	WEST SIDE
003	P7-003	NORTH	EAST SIDE
003	P7-003	SOUTH	EAST SIDE
005	P2-005	SOUTH	EAST SIDE
005	P3-005	SOUTH	EAST SIDE



PARTIAL ELEVATION

NOTES

1. SEE SHEETS 3 & 4 FOR GENERAL NOTES.
2. SEE SHEET 395 FOR ADDITIONAL DETAILS.
3. DOWNSPOUT SHALL BE REINFORCED THERMOSETTING RESIN PIPING (RTRP).
4. VERIFY ALL DIMENSIONS PRIOR TO FABRICATING DOWNSPOUT.
5. CONNECTION HARDWARE SHALL BE STAINLESS STEEL. ALL OTHER CONNECTION ELEMENTS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
6. MASONRY ANCHORS SHALL MEET THE REQUIREMENTS FOR TYPE 'S' AS DESCRIBED IN THE STANDARD SPECIFICATIONS.
7. FOR PAYMENT PURPOSES, FLEXIBLE CONNECTORS AND ALL CONNECTION AND INSTALLATION HARDWARE (INCLUDING MASONRY ANCHORS) ARE CONSIDERED INCIDENTAL TO ITEM SPV.0090.2030 - DOWNSPOUT 8-INCH.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

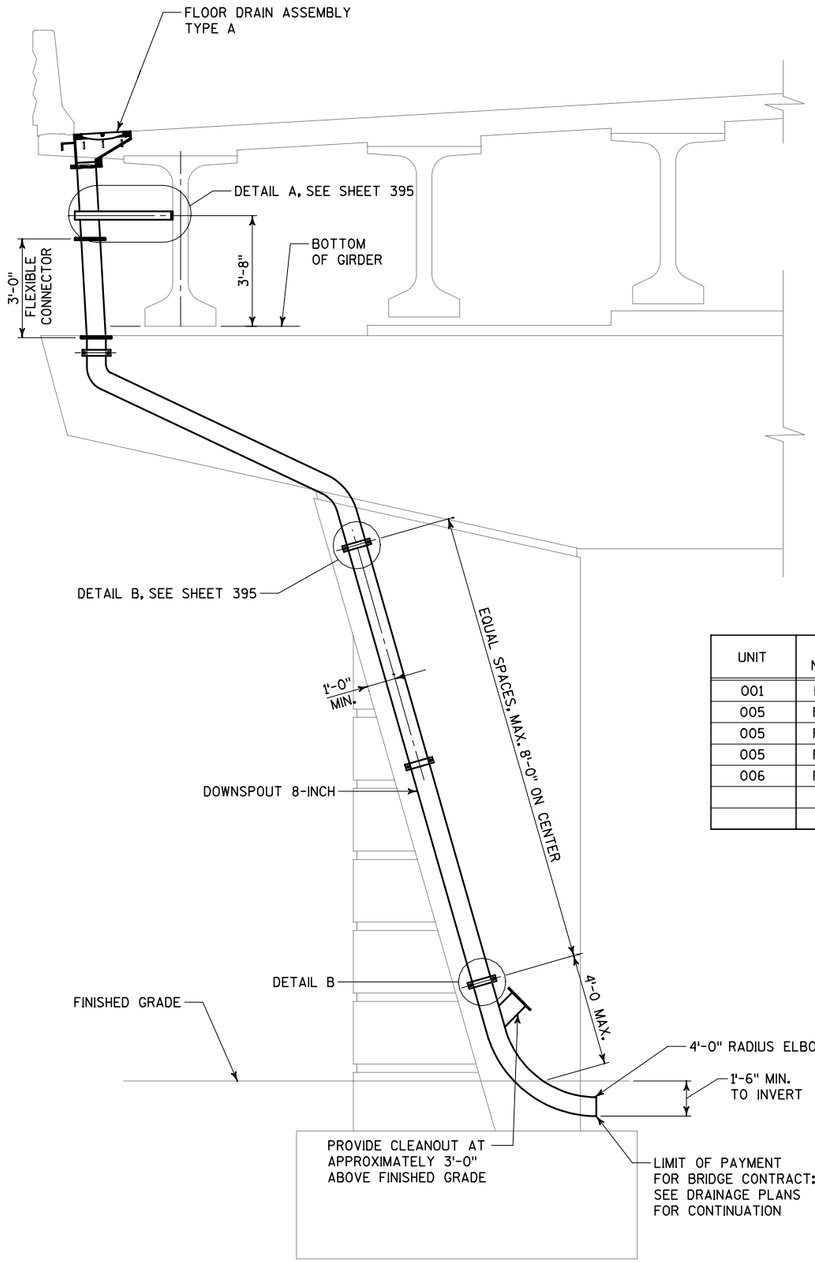
PIER DRAIN ELEVATION 1

SHEET 389 OF 396

3257

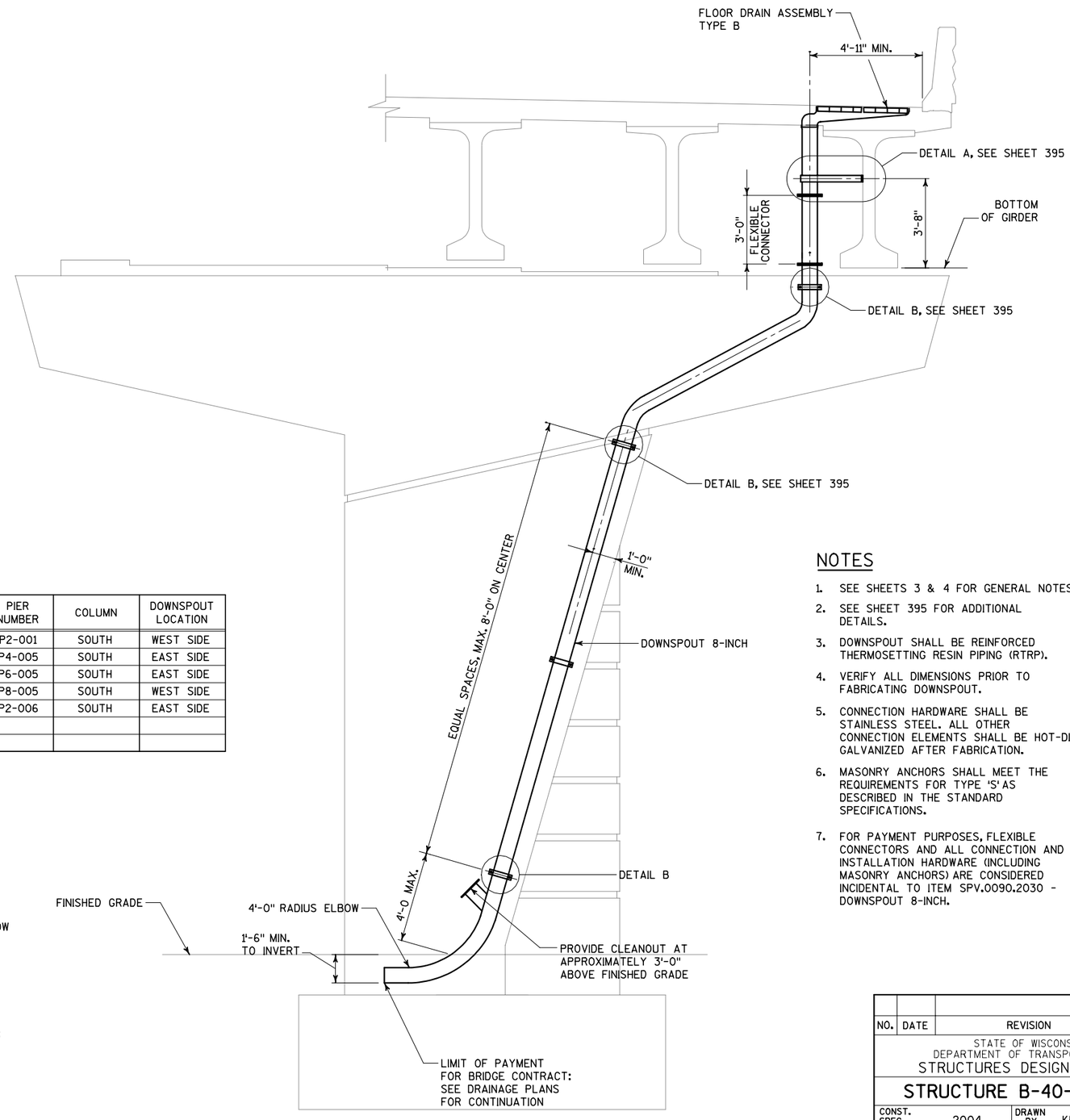
FILE NAME: R:\C\bridges\1312\cds\1312-99C037D.dgn PEN TABLE: \\mtps\FinalDgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:46 Plotted by: emccrigh

STATE PROJECT NUMBER
1060-05-75



PARTIAL ELEVATION

UNIT	PIER NUMBER	COLUMN	DOWNSPOUT LOCATION
001	P2-001	SOUTH	WEST SIDE
005	P4-005	SOUTH	EAST SIDE
005	P6-005	SOUTH	EAST SIDE
005	P8-005	SOUTH	WEST SIDE
006	P2-006	SOUTH	EAST SIDE



PARTIAL ELEVATION

NOTES

1. SEE SHEETS 3 & 4 FOR GENERAL NOTES.
2. SEE SHEET 395 FOR ADDITIONAL DETAILS.
3. DOWNSPOUT SHALL BE REINFORCED THERMOSETTING RESIN PIPING (RTRP).
4. VERIFY ALL DIMENSIONS PRIOR TO FABRICATING DOWNSPOUT.
5. CONNECTION HARDWARE SHALL BE STAINLESS STEEL. ALL OTHER CONNECTION ELEMENTS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
6. MASONRY ANCHORS SHALL MEET THE REQUIREMENTS FOR TYPE 'S' AS DESCRIBED IN THE STANDARD SPECIFICATIONS.
7. FOR PAYMENT PURPOSES, FLEXIBLE CONNECTORS AND ALL CONNECTION AND INSTALLATION HARDWARE (INCLUDING MASONRY ANCHORS) ARE CONSIDERED INCIDENTAL TO ITEM SPV.0090.2030 - DOWNSPOUT 8-INCH.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	2004	DRAWN BY	KES	PLANS CK'D.	KES

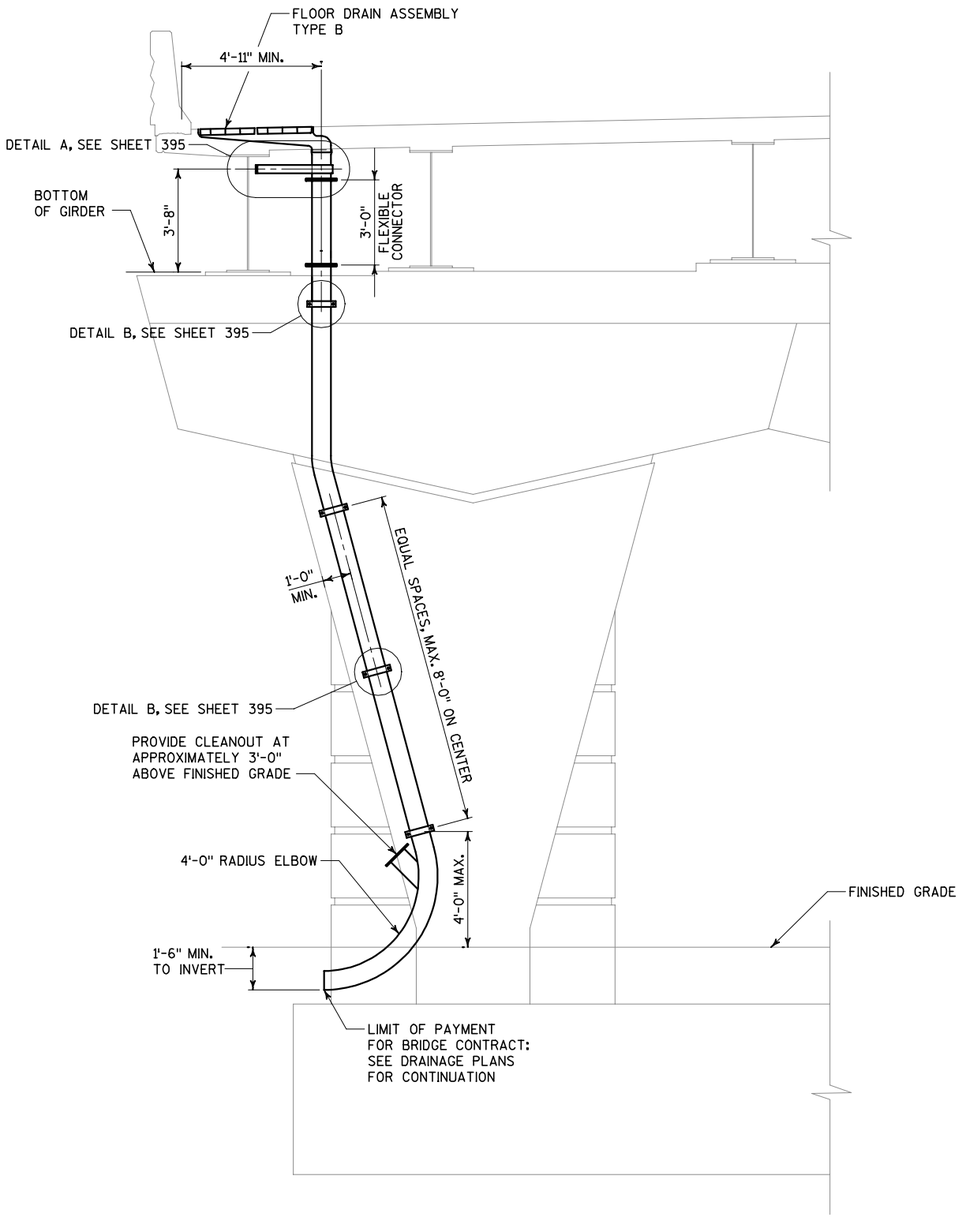
PIER DRAIN ELEVATION 2

SHEET 390 OF 396

3258

FILE NAME: R:\C&bridges\1312\cds\1312-99C038D.dgn PEN TABLE: \\mtp\FinalDgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:46 Plotted by: emccrigh

STATE PROJECT NUMBER
1060-05-75



PARTIAL ELEVATION

UNIT	PIER NUMBER	COLUMN	DOWNSPOUT LOCATION
004	P1-004	NORTH	EAST SIDE
004	P1-004	SOUTH	EAST SIDE

NOTES

1. SEE SHEETS 3 & 4 FOR GENERAL NOTES.
2. SEE SHEET 395 FOR ADDITIONAL DETAILS.
3. DOWNSPOUT SHALL BE REINFORCED THERMOSETTING RESIN PIPING (RTRP).
4. VERIFY ALL DIMENSIONS PRIOR TO FABRICATING DOWNSPOUT.
5. CONNECTION HARDWARE SHALL BE STAINLESS STEEL. ALL OTHER CONNECTION ELEMENTS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
6. MASONRY ANCHORS SHALL MEET THE REQUIREMENTS FOR TYPE 'S' AS DESCRIBED IN THE STANDARD SPECIFICATIONS.
7. FOR PAYMENT PURPOSES, FLEXIBLE CONNECTORS AND ALL CONNECTION AND INSTALLATION HARDWARE (INCLUDING MASONRY ANCHORS) ARE CONSIDERED INCIDENTAL TO ITEM SPV.0090.2030 - DOWNSPOUT 8-INCH.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER DRAIN ELEVATION 3

SHEET 391 OF 396

3259

FILE NAME: R:\C\bridges\1312\cds\1312-99C039D.dgn PEN TABLE: \\mtp\FindDgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:46 Plotted by: emccrigh

STATE PROJECT NUMBER

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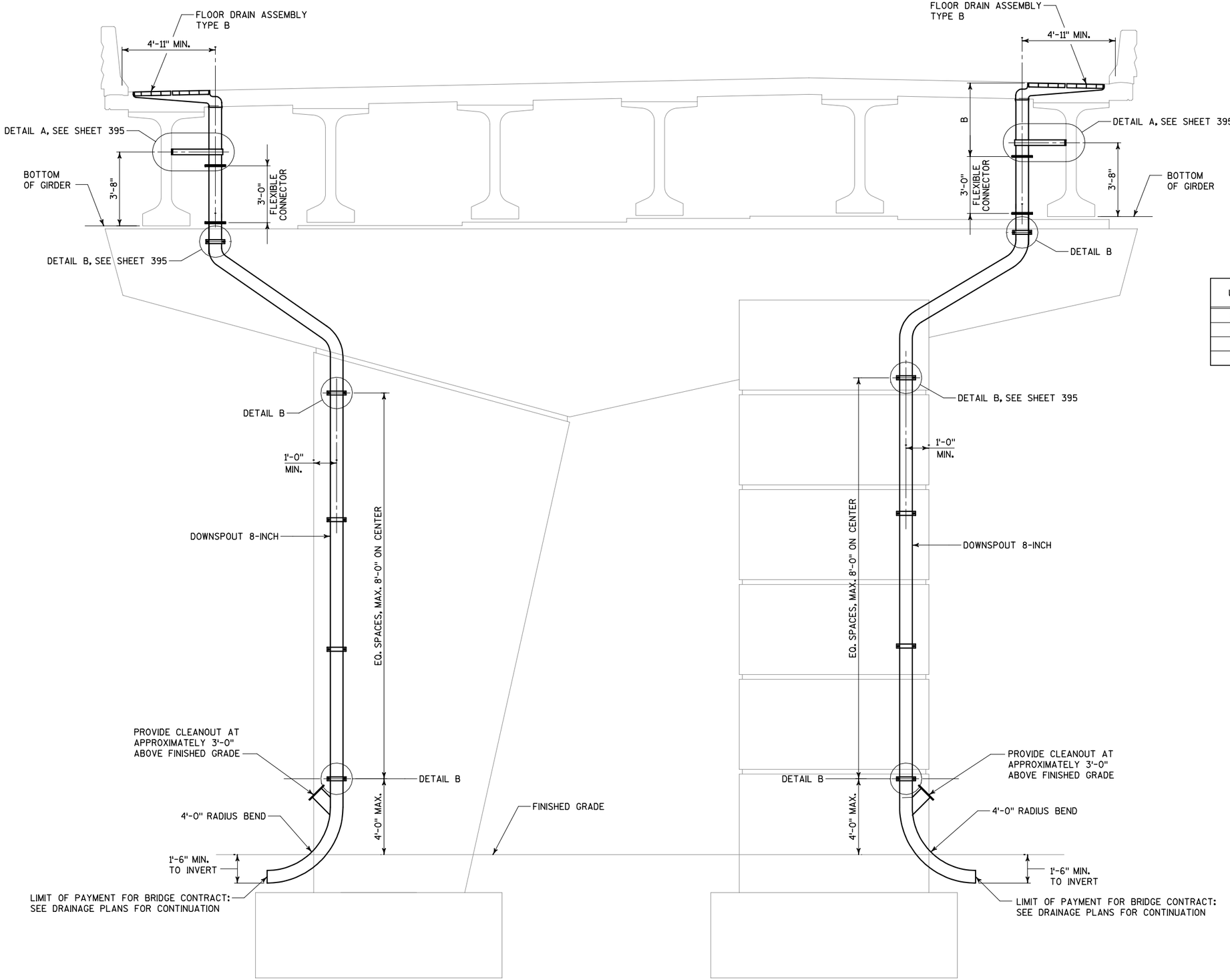

ELEVATION

UNIT	PIER NUMBER	COLUMN	DOWNSPOUT LOCATION
001	P9-001	NORTH	WEST SIDE
001	P9-001	SOUTH	WEST SIDE

NOTES

1. SEE SHEETS 3 & 4 FOR GENERAL NOTES.
2. SEE SHEET 395 FOR ADDITIONAL DETAILS.
3. DOWNSPOUT SHALL BE REINFORCED THERMOSETTING RESIN PIPING (RTRP).
4. VERIFY ALL DIMENSIONS PRIOR TO FABRICATING DOWNSPOUT.
5. CONNECTION HARDWARE SHALL BE STAINLESS STEEL. ALL OTHER CONNECTION ELEMENTS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
6. MASONRY ANCHORS SHALL MEET THE REQUIREMENTS FOR TYPE 'S' AS DESCRIBED IN THE STANDARD SPECIFICATIONS.
7. FOR PAYMENT PURPOSES, FLEXIBLE CONNECTORS AND ALL CONNECTION AND INSTALLATION HARDWARE (INCLUDING MASONRY ANCHORS) ARE CONSIDERED INCIDENTAL TO ITEM SPV.0090.2030 - DOWNSPOUT 8-INCH.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER DRAIN ELEVATION 4

SHEET 392 OF 396

3260

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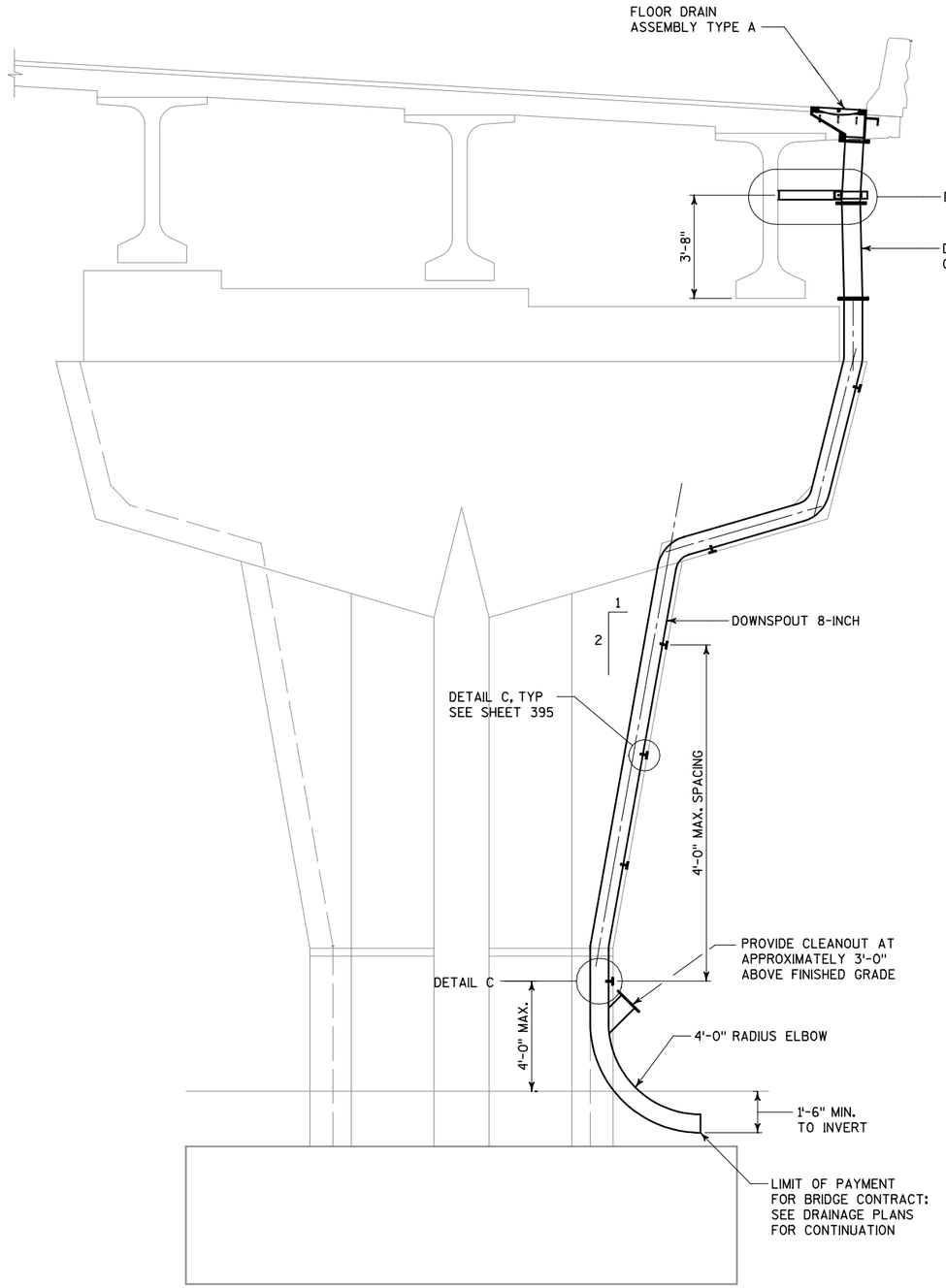
STATE PROJECT NUMBER
1060-05-75



ELEVATION

NOTES

1. SEE SHEETS 3 & 4 FOR GENERAL NOTES.
2. SEE SHEET 395 FOR ADDITIONAL DETAILS OF THE FLOOR DRAIN ASSEMBLY.
3. DOWNSPOUT SHALL BE REINFORCED THERMOSETTING RESIN PIPING (RTRP).
4. VERIFY ALL DIMENSIONS PRIOR TO FABRICATING DOWNSPOUT.
5. CONNECTION HARDWARE SHALL BE STAINLESS STEEL. ALL OTHER CONNECTION ELEMENTS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
6. MASONRY ANCHORS SHALL MEET THE REQUIREMENTS FOR TYPE 'S' AS DESCRIBED IN THE STANDARD SPECIFICATIONS.
7. FOR PAYMENT PURPOSES, FLEXIBLE CONNECTORS AND ALL CONNECTION AND INSTALLATION HARDWARE (INCLUDING MASONRY ANCHORS) ARE CONSIDERED INCIDENTAL TO ITEM SPV.0090.2030 - DOWNSPOUT 8-INCH.

UNIT	PIER NUMBER	COLUMN	DOWNSPOUT LOCATION
005	P1B-005	SOUTH	EAST SIDE

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

PIER DRAIN ELEVATION 5

SHEET 393 OF 396

3261

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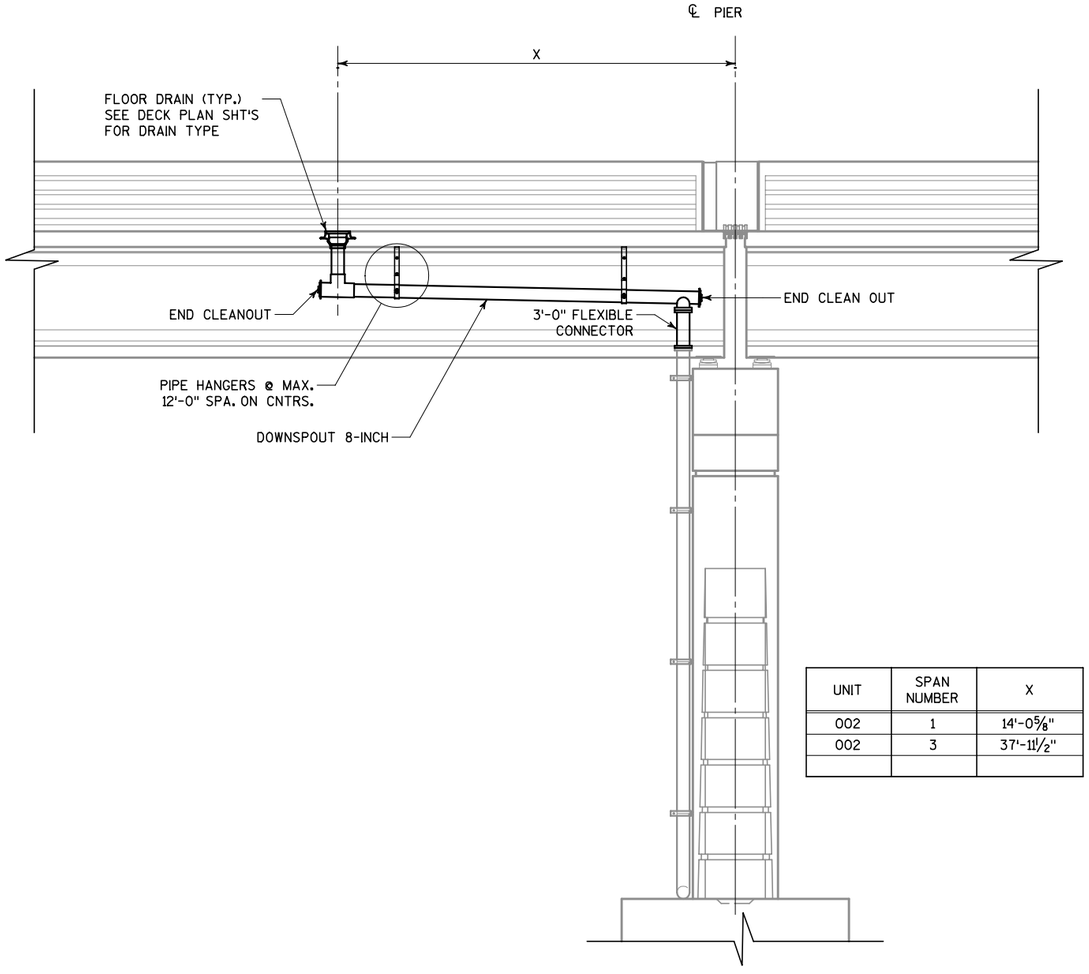
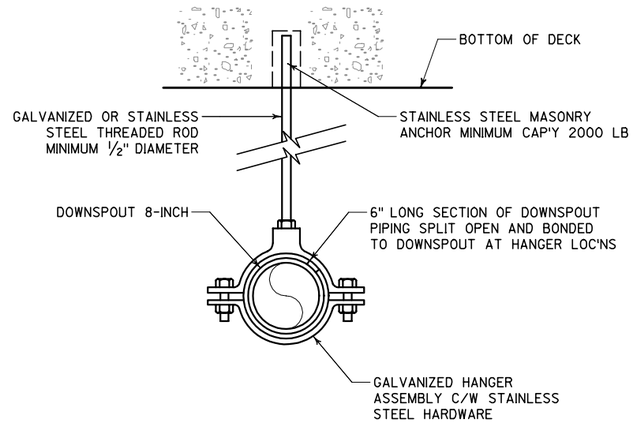
STATE PROJECT NUMBER

1060-05-75



UNIT	SPAN NUMBER	X
002	1	14'-0⅝"
002	3	37'-11½"

ELEVATION



PIPE HANGER DETAIL

NOTES

1. SEE SHEET 3 & 4 FOR GENERAL NOTES.
2. INSTALL PIPING AT THE STEEPEST GRADE POSSIBLE, MINIMUM 3 PERCENT.
3. ALL FITTINGS, ELBOWS, CLEANOUTS, HANGERS, MASONRY ANCHORS, BOLTS AND OTHER HARDWARE REQUIRED FOR MOUNTING THE DOWNSPOUT AND/OR FLOOR DRAINS IS CONSIDERED INCIDENTAL TO PAY ITEM SPV.0090.2030 'DOWNSPOUT 8-INCH'.
4. 'END CLEANOUTS' SHALL CONSIST OF A REMOVABLE COVER SEALING THE PIPE END INDICATED. OTHER CLEANOUTS SHALL USE THE INTERMEDIATE CLEANOUT DETAIL GIVEN ON THIS SHEET.
5. CUT HOLES AND INSTALL INTERMEDIATE CLEANOUTS IN THE FIELD AFTER DOWNSPOUT HAS BEEN INSTALLED.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

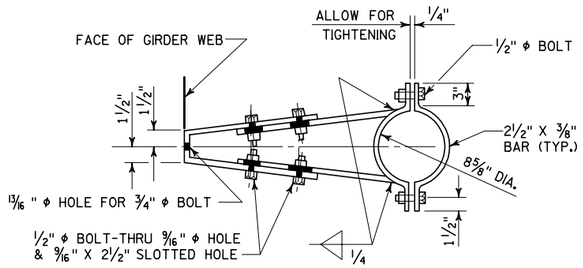
PIER DRAIN DETAILS 1

SHEET 394 OF 396

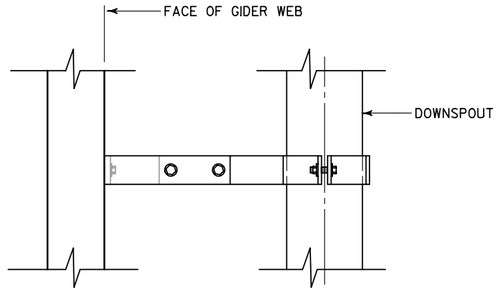
3262

FILE NAME: R:\C\bridges\1312\cds\1312-99C042D.dgn PEN TABLE: \\mtp\FindDgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:47 Plotted by: emccrigh

STATE PROJECT NUMBER
1060-05-75

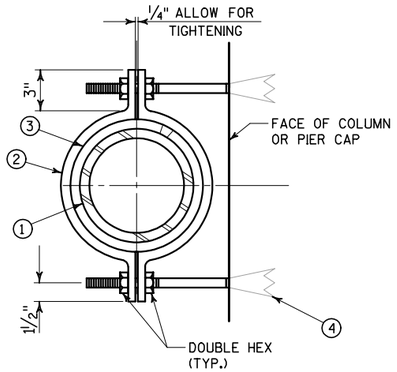


PLAN

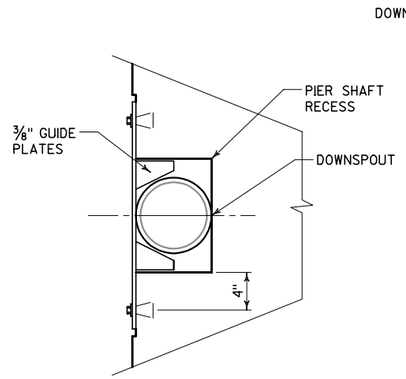


SIDE ELEVATION

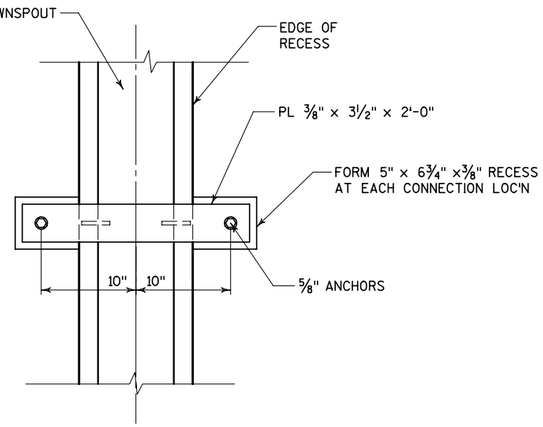
DETAIL A



DETAIL B



PLAN



FRONT ELEVATION

DETAIL C

LEGEND

1. 8" ϕ DOWNSPOUT
2. 2 1/2" X 3/8" BAR (TYP.)
3. 6" LG. SPLIT RTRP STRIP. BOND TO #1, PLACE AT ALL CLAMP LOC'S.
4. 5/8" ϕ TYPE S ANCHORS. (ST. STL. BOLT & WASHER - TYP.)

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC. 2004	DRAWN BY RWN	PLANS CK'D. KES

PIER DRAIN DETAILS 2

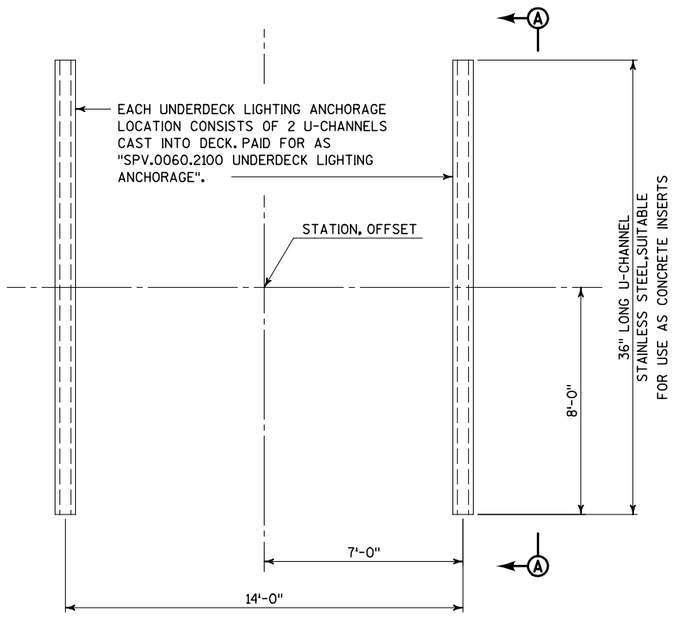
SHEET 395 OF 396

3263

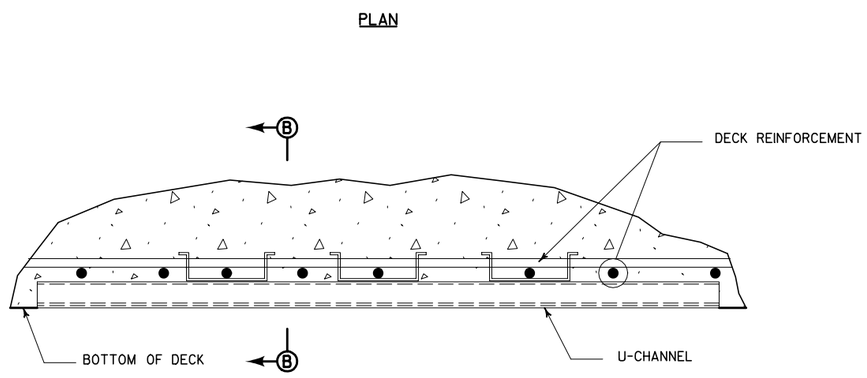
FILE NAME: R:\C\bridges\1312\cds\1312-99C043D.dgn PEN TABLE: \\mtp\FinalDgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:47 Plotted by: emccrigh

STATE PROJECT NUMBER

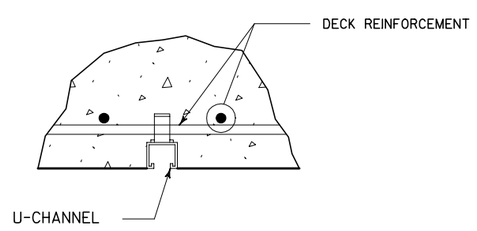
1060-05-75



PLAN

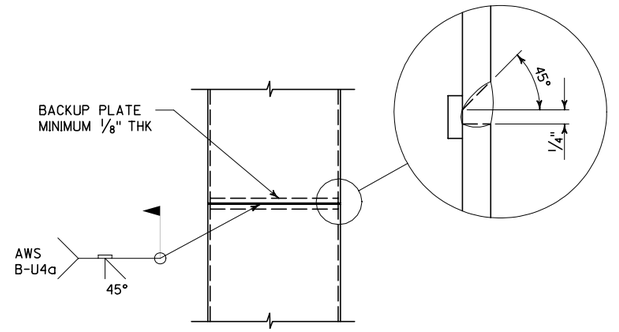


SECTION A-A

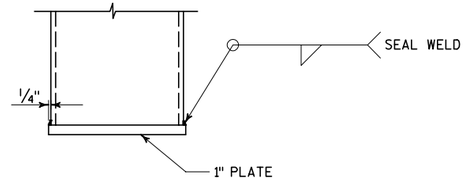


SECTION B-B

UNDERDECK LIGHTING ANCHORAGE DETAILS



PILE SPLICE DETAIL



PILE TIP DETAIL

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1312

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2004	EKM	KES

MISCELLANEOUS DETAILS

SHEET 396 OF 396

3264

FILE NAME: R:\C\bridges\1312\cds\1312-99C044D.dgn PEN TABLE: \\mtp\FinalDgn\config\plot\pentbls\bridge.pen Date: 03-MAY-2005 14:47 Plotted by: emccrigh