

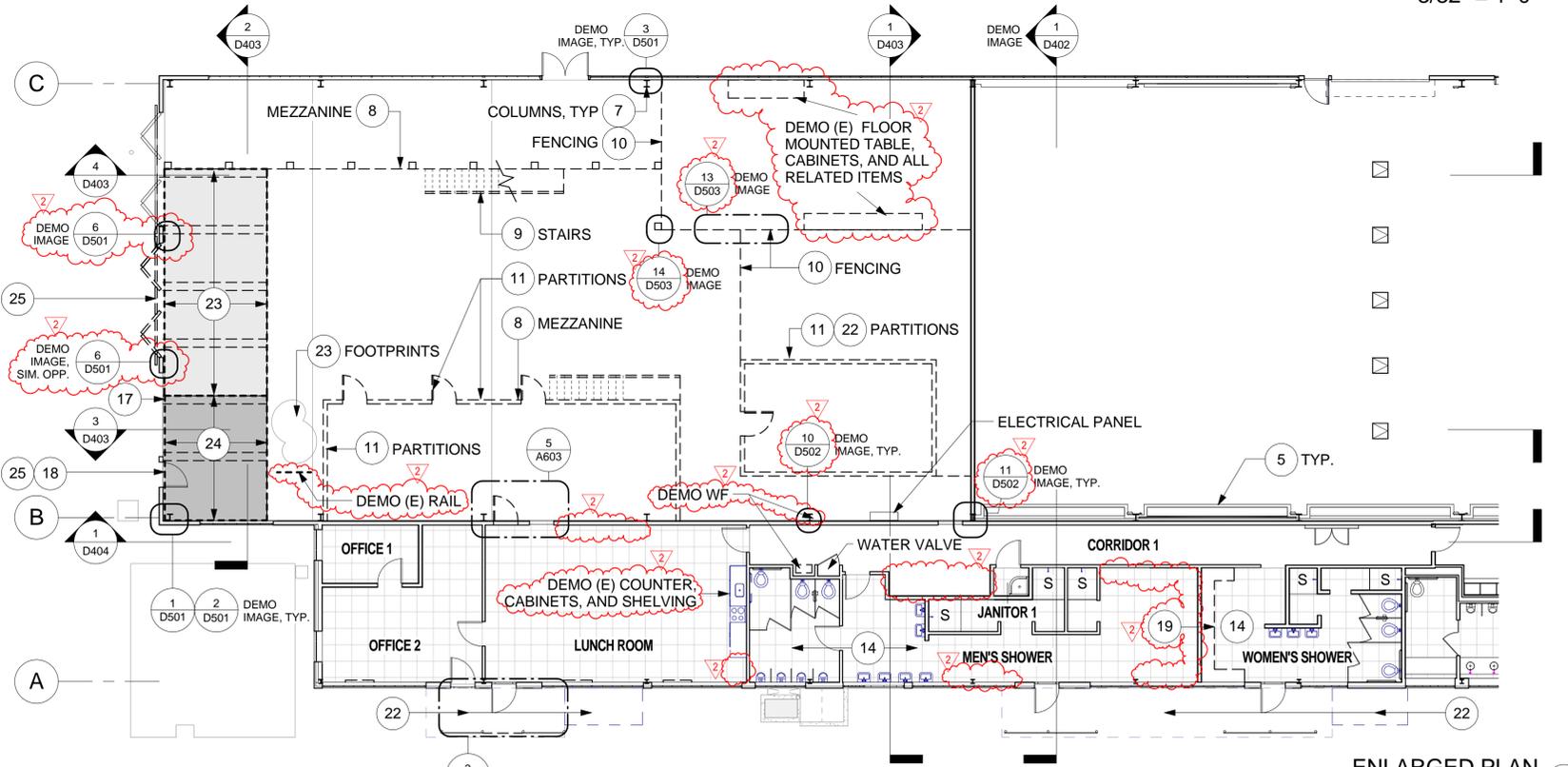
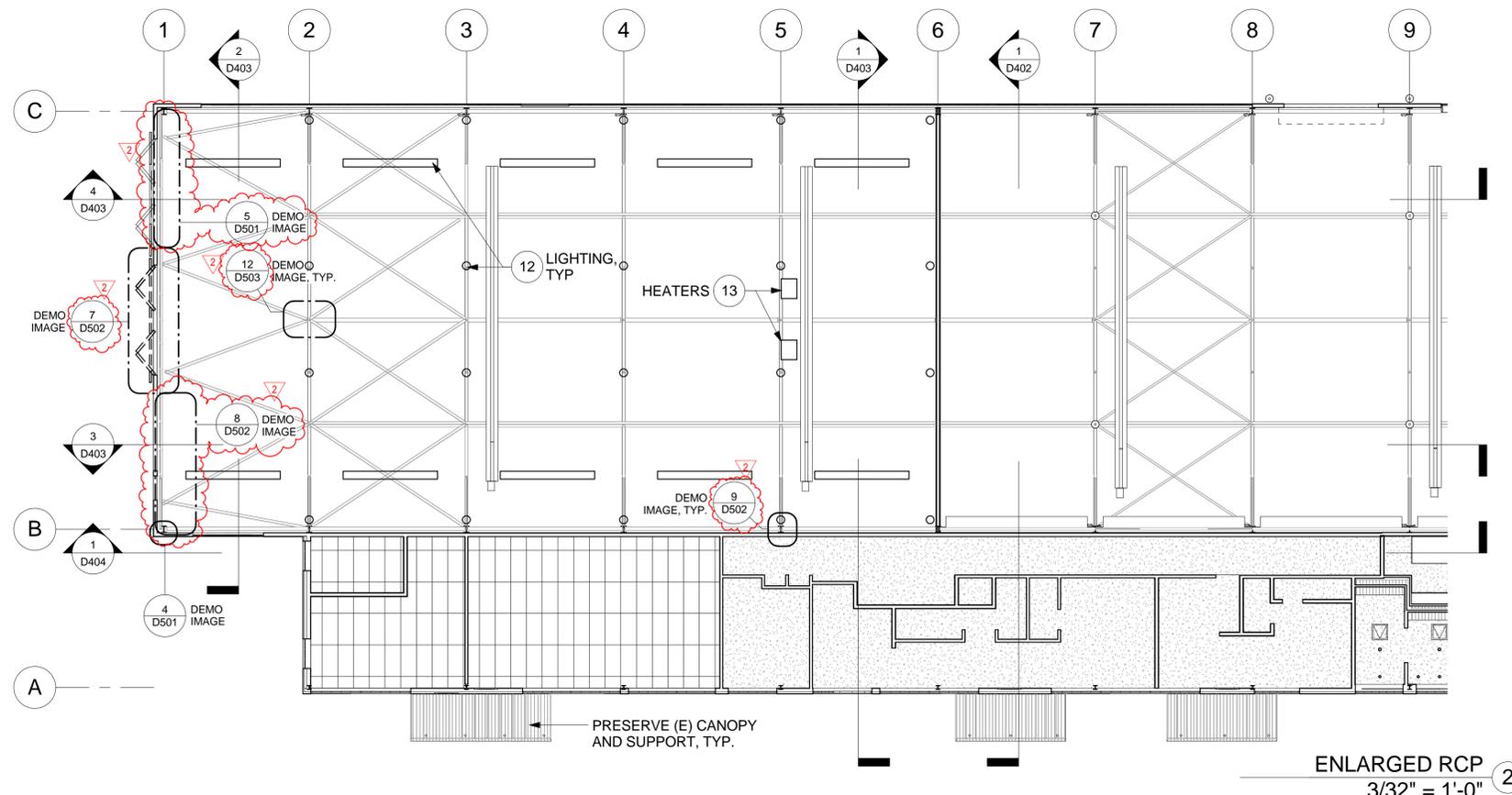
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04	ALA	80	2.0	8	124
 REGISTERED ARCHITECT			08/17/15	 DATE	
08/24/15			PLANS APPROVAL DATE		
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HNTB CORPORATION 1111 BROADWAY 9TH FLOOR OAKLAND, CA 94607					

- NOTES:**
- DEMO ALL UNUSED NON-STRUCTURAL METALS, (E) UTILITIES, AND MISC. ITEMS AS REQUIRED TO DO SEISMIC RETROFIT AND HAZARDOUS MITIGATION WORK FROM GL-B TO GL-C, BETWEEN GL-1 TO GL-6.
 - ALL CEILINGS BETWEEN GL A-B FROM GL 2-9 ARE (E) TO REMAIN.
 - REFERENCES TO DEMO IMAGES SHOWN REPRESENT SAMPLE LOCATIONS; SEE NOTE 3 IN D500 SERIES FOR DETAILS.

- DOOR AND HARDWARE:**
- A. REMOVE (E) HISTORIC DOOR AND TRACK; SAVE AND STORE FOR FUTURE REINSTALLATION.
 - B. (E) TRACK TO REMAIN FOR FUTURE USE.
 - C. REMOVE (E) HINGE SHAFTS AS SHOWN IN PHOTO 12/D503; (E) JAMB PORTION OF DOOR HINGE TO REMAIN FOR FUTURE USE.
 - D. REMOVE (E) TRANSITE COVER AS SHOWN IN PHOTO 12/D503.

- DEMOLITION KEYNOTES:**
1. REMOVE HEATERS AS REQUIRED TO COMPLETE SEISMIC RETROFIT DEMO. COORDINATE WITH SCOPE OF RIVET REMOVAL. SAVE AND STORE FOR FUTURE RENOVATION.
 2. REMOVE LIGHTING FIXTURES/LIGHTING TRACK AS REQUIRED TO COMPLETE SEISMIC DEMO. COORDINATE WITH SCOPE OF RIVET REMOVAL. SAVE AND STORE FOR FUTURE RENOVATION.
 3. CUT BACK FULL HEIGHT CONDUIT WHERE OCCURS TO DATUM LINE 22' - 5".
 4. CUT BACK PARTIAL HEIGHT CONDUIT WHERE OCCURS TO DATUM LINE 11' - 3".
 5. REMOVE GYPSUM BOARD AND PLYWOOD FROM ALL VISIBLE PARTITION FACES INCLUDING TOP.
 6. REMOVE (E) ACOUSTIC BOARDS. SAVE AND STORE FOR REINSTALL.
 7. REMOVE ALL CONDUIT, DATA, GAS, AND MISC. STEEL, HARDWARE, AND DEVICES FROM COLUMN FLANGES AND WEB; COORDINATE WITH SEISMIC RETROFIT DETAILS, TYP. SAVE AND STORE FOR FUTURE REINSTALLATION.
 8. DEMO MEZZANINE AND SUPPORT STRUCTURE, TYP.
 9. DEMO STAIRS AND SUPPORT STRUCTURE, TYP.
 10. DEMO ALL FENCING, GATES, AND ATTACHMENT HARDWARE, TYP.
 11. DEMO PARTITIONS, FRAMING, DOORS, AND HARDWARE, TYP.
 12. DEMO (E) LIGHTING FIXTURES AND CONDUIT, TYP.
 13. DEMO (E) HEATERS, CONDUIT, AND FLUE BELOW ROOF LEVEL.
 14. DEMO ALL (E) TOILET AND SHOWER PARTITIONS.
 15. REMOVE S.S. RAILINGS FOR ACCESS TO BASE OF COLUMN.
 16. REMOVE (E) GYPSUM BOARD OR PLYWOOD WHERE OCCURS AS SHOWN.
 17. DEMO (E) ROLLUP DOOR AND FRAME.
 18. DEMO (E) DIVIDED GLAZING, DOOR, AND MULLION CONSTRUCTION.
 19. DEMO (E) LOCKERS AND WOODEN BENCH.
 20. REMOVE (E) FRAMING AS SHOWN.
 21. REMOVE (E) TEMPORARY 2 1/2" PARTITION FRAMING AND GYPSUM BOARD.
 22. DEMO (E) RAISED CONCRETE SLAB AND CURB.
 23. PATCH (E) CONCRETE FLOOR.
 24. GRIND (E) CONCRETE FLOOR.
 25. SEE NOTE: DOOR AND HARDWARE (D202).

==== (E) TO REMAIN
 ===== TO BE DEMOLISHED



REPLACED PER ADDENDUM NO. 2 DATED SEPTEMBER 18, 2015

FRANK THOMAS
 DESIGN OVERSIGHT
 08/24/15
 SIGN OFF DATE

MARK	DATE	DESCRIPTIONS	BY	CHD

DESIGN BY BAN JUNG
 DETAILS BY
 QUANTITIES BY

CHECKED GREGORY BAKER
 CHECKED
 CHECKED

PREPARED FOR THE
 BAY AREA
 TOLL AUTHORITY

KAREN Y. WANG
 PROJECT ENGINEER

BRIDGE NO	BRIDGE YARD (IERBYS)	SHEET
POST MILES	SEISMIC AND RENOVATION PROJECT	D202
2.0	DEMO - ENLARGED PLANS, GL 1-6	

DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)

REVISIONS

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0 1 2 3

UNIT: 04
 PROJECT NUMBER AND PHASE: 04-15000182

CONTRACT NO.: 04-01413

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET	OF
		8	124

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	ALA	80	2.0	18	124

	08/17/15
REGISTERED ARCHITECT	DATE
08/24/15	DATE
PLANS	APPROVAL

	
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HNTB CORPORATION 1111 BROADWAY 9TH FLOOR OAKLAND, CA 94607	HNTB HNTB Corporation Engineers Architects Planners

NOTES:

1. ALL NON-STRUCTURAL ITEMS ATTACHED TO COLUMNS SHALL BE REMOVED TO FACILITATE SEISMIC RETROFIT.
2. ALL UTILITIES THAT INTERFERE WITH SEISMIC RETROFIT OF COLUMNS, TRUSSES AND FOUNDATIONS SHALL BE REMOVED AS SHOWN ON PLANS, OR APPROVED BY ENGINEER.
3. SAMPLES OF TYPICAL NON-STRUCTURAL ATTACHMENTS THAT ARE PRESENT AT VARIOUS LOCATIONS ON COLUMNS AND TRUSSES ARE SHOWN ON PHOTOGRAPHS #1 THROUGH #10.



PHOTO #1

NON-STRUCTURAL PLATE ATTACHED TO COLUMN FLANGES (IMAGE AT COLUMN 1B)



PHOTO #2

NON-STRUCTURAL BARS ATTACHED TO COLUMN FLANGES (IMAGE AT COLUMN 1C)

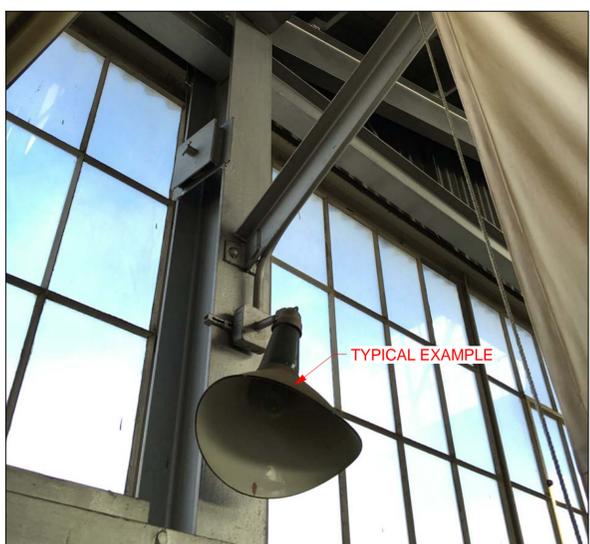


PHOTO #3

UTILITY ATTACHMENTS TO COLUMNS AND DOOR FRAMING (IMAGE AT COLUMN LINE C, PAINT SHOP AREA)

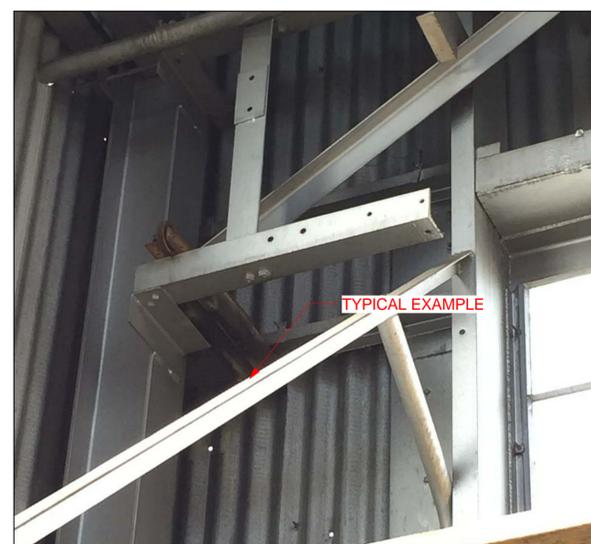


PHOTO #4

NON-STRUCTURAL FRAMING ATTACHED TO COLUMNS AND DOOR FRAMING (IMAGE AT COLUMN 1B)



PHOTO #5

NON-STRUCTURAL METAL AND RELATED ITEMS (IMAGE AT COLUMN 1C)



PHOTO #6

UTILITY PIPING ATTACHED TO COLUMNS; CUT OFF LEVEL WITH FLOOR AND PATCH (IMAGE AT GL-1)

2 REPLACED PER ADDENDUM NO. 2 DATED SEPTEMBER 18, 2015

FRANK THOMAS DESIGN OVERSIGHT		DESIGN BY BAN JUNG	CHECKED GREGORY BAKER	PREPARED FOR THE BAY AREA TOLL AUTHORITY	KAREN Y. WANG PROJECT ENGINEER	BRIDGE NO BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT	SHEET D501
08/24/15 SIGN OFF DATE	MARK DATE DESCRIPTIONS BY CHD	DETAILS BY	CHECKED			NON-STRUCTURAL ITEM REMOVAL SHEET 1	
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)	REVISIONS	QUANTITIES BY	CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 04 PROJECT NUMBER AND PHASE: 04-15000182	CONTRACT NO.: 04-01413	REVISION DATES
				0 1 2 3			SHEET OF 18 124

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	ALA	80	2.0	19	124
 REGISTERED ARCHITECT			08/17/15 DATE		
08/24/15 PLANS APPROVAL DATE			10/31/15 RENEWAL DATE		
HNTB CORPORATION 1111 BROADWAY 9TH FLOOR OAKLAND, CA 94607					

NOTES:

1. ALL NON-STRUCTURAL ITEMS ATTACHED TO COLUMNS SHALL BE REMOVED TO FACILIATE SEISMIC RETROFIT.
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PHOTO #7

NON-STRUCTURAL FRAMING ATTACHED TO DOOR FRAMING (IMAGE AT COLUMN LINE 1)



PHOTO #9

UTILITY PIPING ATTACHED TO COLUMNS (IMAGE IN PAINT SHOP AREA)



PHOTO #10

UTILITY PIPING NEAR COLUMNS (IMAGE IN PAINT SHOP AREA)

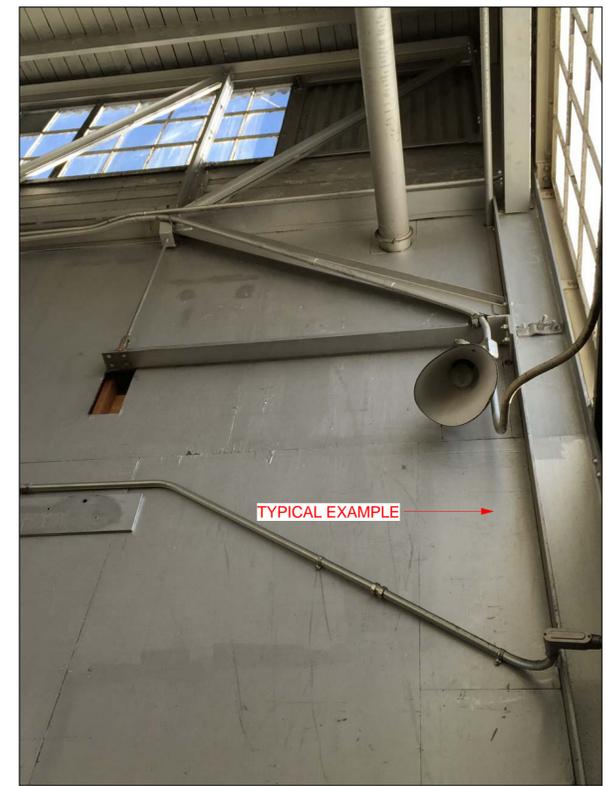


PHOTO #11

NON-STRUCTURAL PARTITION WALL ATTACHED TO COLUMN (IMAGE AT GRIDLINE 6)

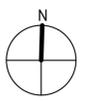


PHOTO #8

NON-STRUCTURAL FRAMING AND MISC. RELATED ITEMS (IMAGE AT GL-1)

REPLACED PER ADDENDUM NO. 2 DATED SEPTEMBER 18, 2015

FRANK THOMAS DESIGN OVERSIGHT 08/24/15 SIGN OFF DATE	MARK DATE DESCRIPTIONS BY CHD	DESIGN BY BAN JUNG CHECKED GREGORY BAKER	DETAILS BY CHECKED	QUANTITIES BY CHECKED	PREPARED FOR THE BAY AREA TOLL AUTHORITY	KAREN Y. WANG PROJECT ENGINEER	BRIDGE NO POST MILES 2.0	BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT NON-STRUCTURAL ITEM REMOVAL SHEET 2	SHEET D502
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
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 REGISTERED ARCHITECT			08/17/15 DATE		
08/24/15 PLANS APPROVAL DATE			DATE		
HNTB CORPORATION 1111 BROADWAY 9TH FLOOR OAKLAND, CA 94607					

- NOTES:**
1. ALL NON-STRUCTURAL ITEMS ATTACHED TO COLUMNS SHALL BE REMOVED TO FACILITATE SEISMIC RETROFIT.
 2. ALL UTILITIES THAT INTERFERE WITH SEISMIC RETROFIT OF COLUMNS, TRUSSES AND FOUNDATIONS SHALL BE REMOVED AS SHOWN ON PLANS, OR APPROVED BY ENGINEER.
 3. SAMPLES OF TYPICAL NON-STRUCTURAL ATTACHMENTS THAT ARE PRESENT AT VARIOUS LOCATIONS ON COLUMNS AND TRUSSES ARE SHOWN ON PHOTOGRAPHS #1 THROUGH #10.



PHOTO #12
UTILITY PIPING NEAR RIVETED GUSSET PLATE CONNECTIONS

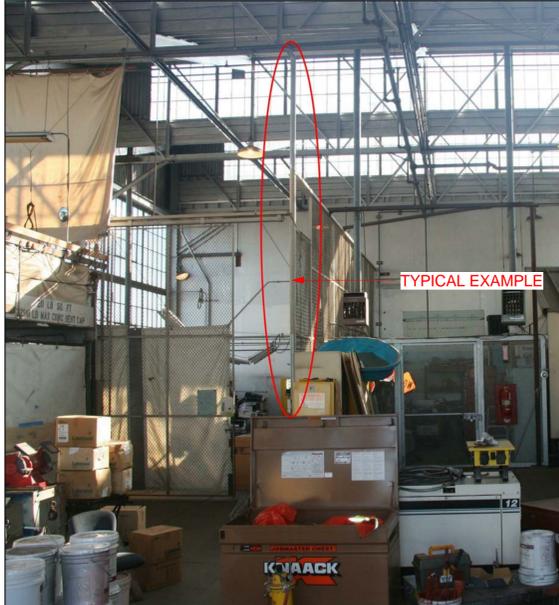


PHOTO #14
FENCING AND SUPPORTING COLUMN (IMAGE IN PAINT SHOP AREA)

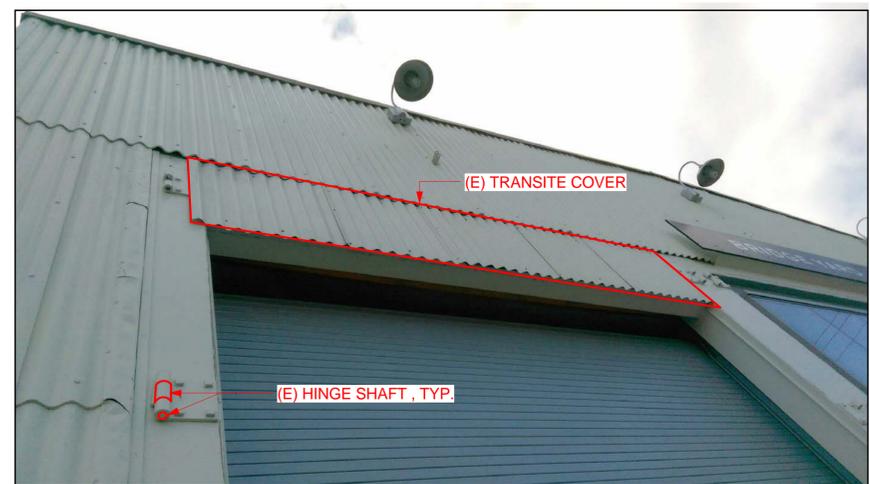


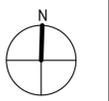
PHOTO #15
(E) HINGE SHAFTS ARE LOCATED AT LEFT BOTTOM, RIGHT BOTTOM, AND LEFT 3RD FROM BOTTOM, FACING THE ROLLUP DOOR ON EAST FACADE (IMAGE AT GL B, GL 18)



PHOTO #13
NON-STRUCTURAL BRACING ATTACHED TO TRUSS (IMAGE IN PAINT SHOP AREA)

2 REPLACED PER ADDENDUM NO. 2 DATED SEPTEMBER 18, 2015

FRANK THOMAS DESIGN OVERSIGHT 08/24/15 SIGN OFF DATE	MARK DATE DESCRIPTIONS BY CHD	DESIGN BY BAN JUNG DETAILS BY QUANTITIES BY	CHECKED GREGORY BAKER CHECKED CHECKED	PREPARED FOR THE BAY AREA TOLL AUTHORITY	KAREN Y. WANG PROJECT ENGINEER	BRIDGE NO POST MILES 2.0	BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT NON-STRUCTURAL ITEM REMOVAL SHEET 3	SHEET D503
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)	REVISIONS	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 04 PROJECT NUMBER AND PHASE: 04-15000182	CONTRACT NO.: 04-01413	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET OF 20 124



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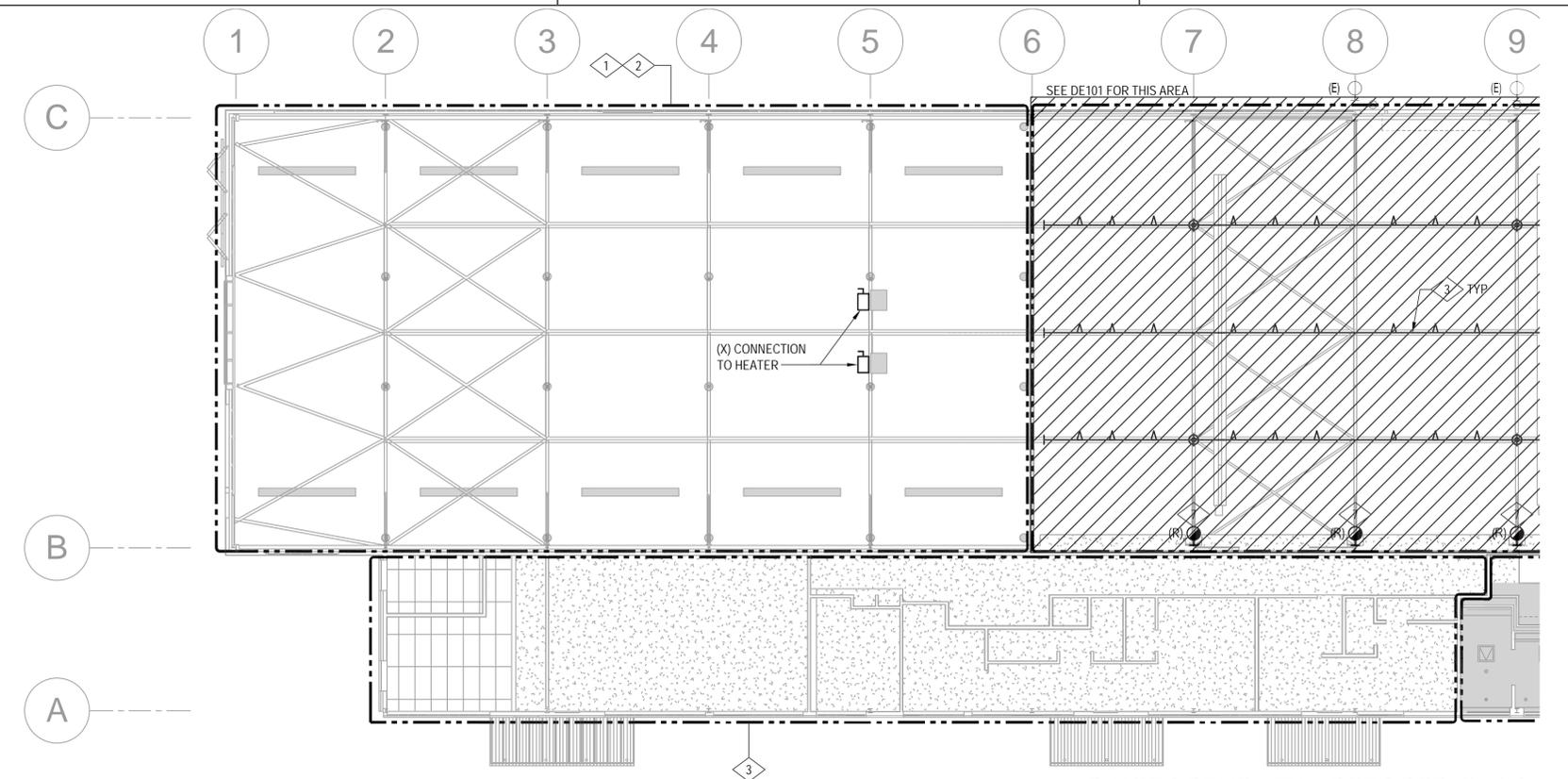
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04	ALA	80	2.0	22	124

ANDREW J. HARRINGTON 08/17/15
 REGISTERED ENGINEER DATE

08/24/15
 PLANS APPROVAL DATE

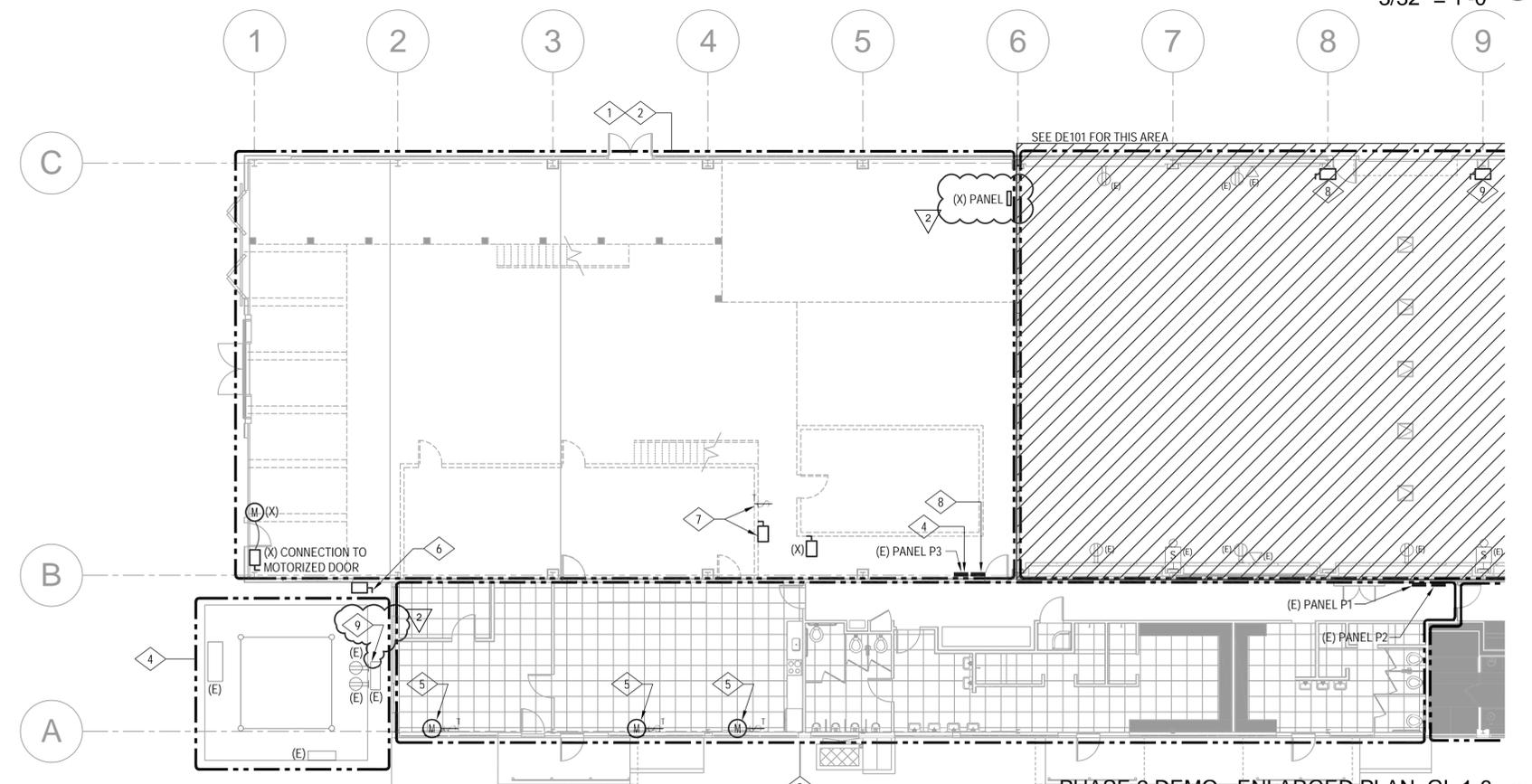
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SHEET NOTES

- A. WHERE EXISTING EQUIPMENT, FIXTURES, DEVICES AND CONTROLS ARE BEING REMOVED, DEMOLISH ALL ASSOCIATED OUTLET BOXES, CONDUIT AND WIRE BACK TO THE PANELBOARD OR TO THE NEAREST EXISTING CONNECTED DEVICE SCHEDULED TO REMAIN. CONTRACTOR SHALL NOT LEAVE ABANDONED BACKBOXES AND/OR BLANK FACEPLATE COVERS IN NEW FINISHED SURFACES.
- B. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND ADD OR REMOVE EQUIPMENT, FIXTURES AND DEVICES AS REQUIRED.
- C. WHERE INTERIOR (E) RLM LIGHTS ARE BEING REMOVED, REMOVE AND HANDLE CAREFULLY AND STORE IN A SAFE AND SECURE LOCATION FOR FUTURE RE-INSTALLATION.
- D. (E) PANELS P1, P2, AND P3 TO CONTINUE TO SERVE ANY (E) EQUIPMENT NOT REMOVED IN THIS SCOPE OF WORK. NO NEW EQUIPMENT OR CIRCUITS SHALL BE CONNECTED TO THESE PANELS.



NUMBERED NOTES

- 1 IN THIS AREA, REMOVE ALL EXISTING LIGHTING FIXTURES, CONTROLS AND EXIT SIGNS, UON.
- 2 IN THIS AREA, REMOVE ALL EXISTING POWER AND FIRE ALARM DEVICES, UON.
- 3 IN THIS AREA, ALL EXISTING LIGHTING FIXTURES, CONTROLS, EXIT SIGNS, POWER DEVICES AND FIRE ALARM DEVICES ARE EXISTING TO REMAIN (E), UON.
- 4 EQUIPMENT SERVING BASE TOWER TO REMAIN ENERGIZED AT ALL TIMES. PROVIDE TEMPORARY POWER IF/AS REQUIRED DURING CONSTRUCTION AND COORDINATE ANY BRIEF SHUTDOWNS WITH OWNER REP. BASE TOWER IS SERVED VIA EXISTING PANEL P3.
- 5 (X) EQUIPMENT CONNECTION TO WALL-MOUNTED UNIT.
- 6 (X) CONNECTION TO CONDENSING UNIT.
- 7 (X) EQUIPMENT CONNECTIONS TO WATER HEATER AND FURNACE LOCATED ON MEZZANINE.
- 8 (X) GUTTER EXTENDING FROM PANEL TOWARDS DOOR. IF CIRCUITS PASSING THROUGH GUTTER SERVE EXISTING EQUIPMENT TO REMAIN, RELOCATE CONDUIT(S) IF/AS REQUIRED TO PROVIDE ADA CLEARANCE AT SIDE OF DOOR, AND EXTEND CONDUIT(S) DIRECTLY TO PANEL. REFER TO NUMBERED NOTE 4.
- 9 VERIFY EQUIPMENT IS SERVING COMMUNICATION TOWER; IF NOT, REMOVE UPON OWNER'S REVIEW AND APPROVAL.

2 REPLACED PER ADDENDUM NO. 2 DATED SEPTEMBER 18, 2015

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MARK	DATE	DESCRIPTIONS REVISIONS	BY	CHD																					
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 04 PROJECT NUMBER AND PHASE: 04-15000182		CONTRACT NO.: 04-01413		DISREGARD PRINTS BEARING EARLIER REVISION DATES		<table border="1"> <tr> <th>REVISION DATES</th> <th>SHEET</th> <th>OF</th> </tr> <tr> <td> </td> <td>22</td> <td>124</td> </tr> </table>		REVISION DATES	SHEET	OF		22	124				
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	22	124																							

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	ALA	80	2.0	23	124

JAMES R. GRONEK
REGISTERED ENGINEER

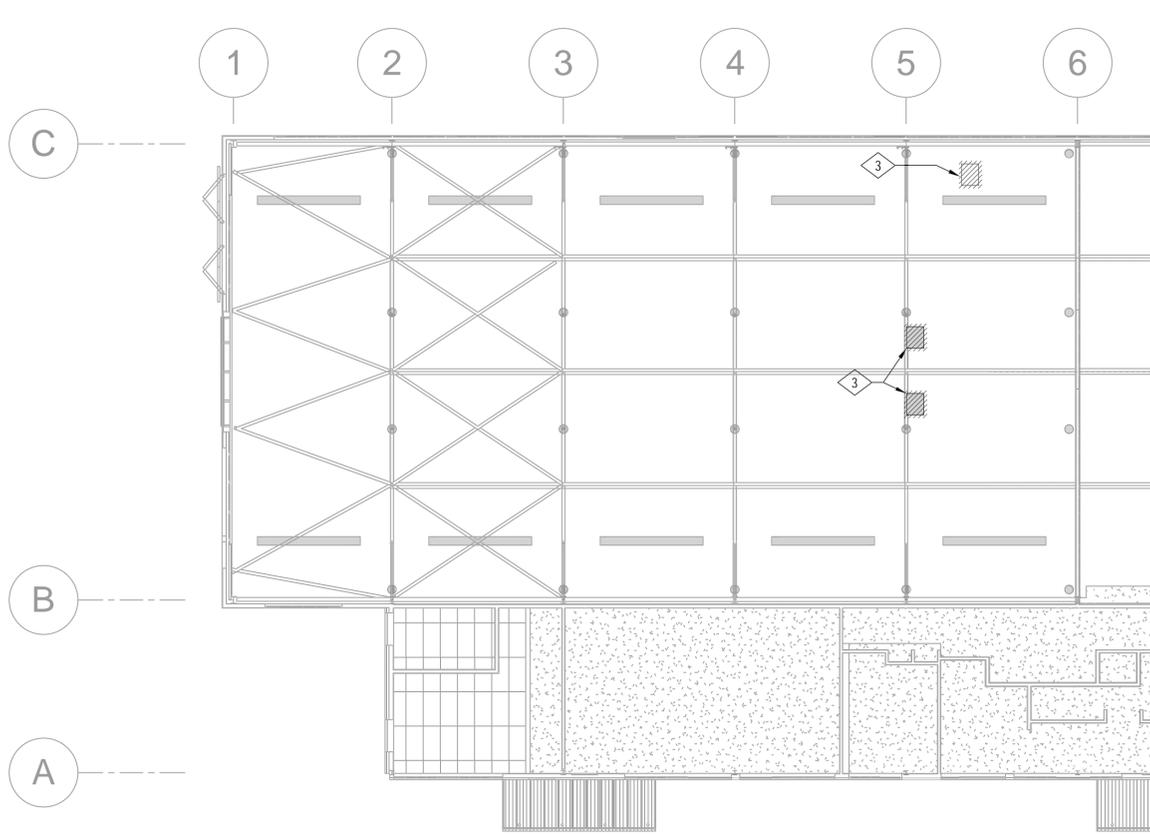
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DATE

08/24/15
PLANS APPROVAL DATE

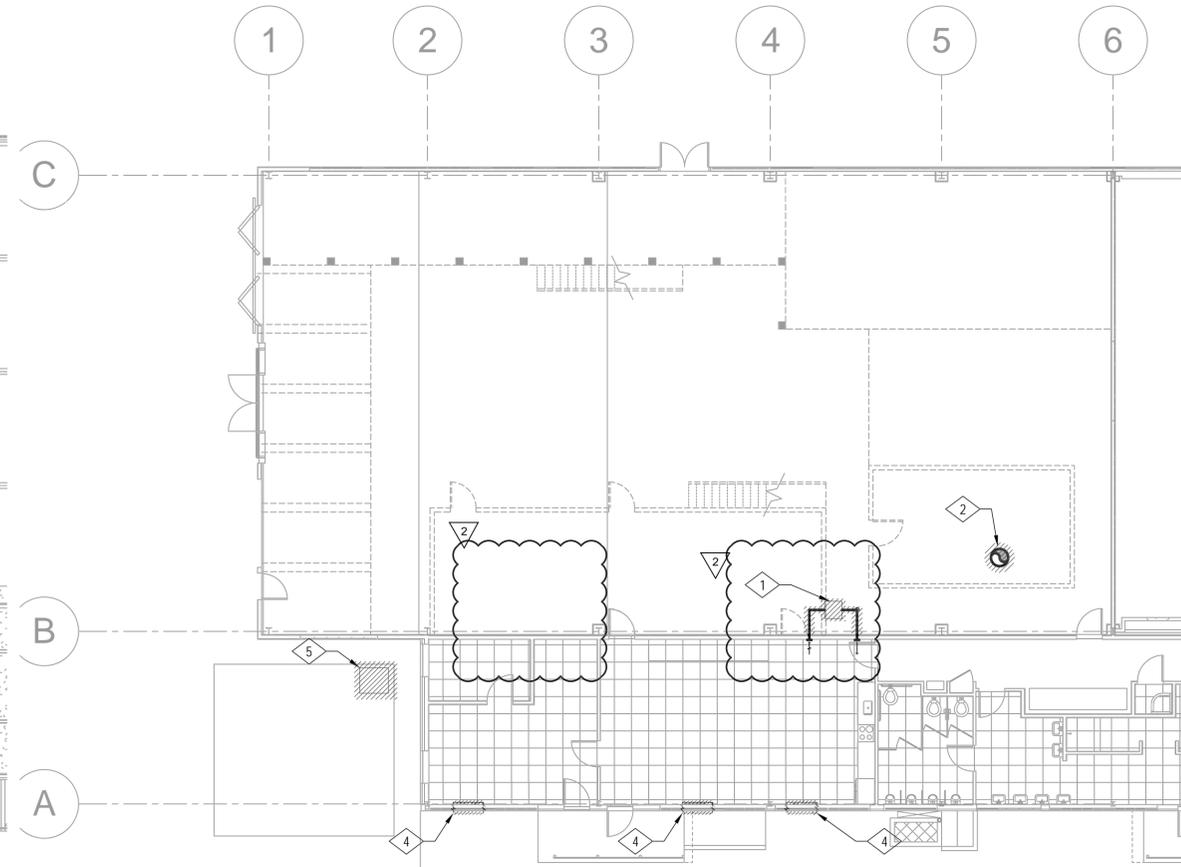
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PHASE 2 DEMO - ENLARGED RCP, GL 1-6
3/32" = 1'-0" ②



PHASE 2 DEMO - ENLARGED PLAN, GL 1-6
3/32" = 1'-0" ①



SHEET NOTES

A. CONTRACTOR SHALL REMOVE ALL UNUSED EQUIPMENT, DUCTWORK, PIPING, AND ACCESSORIES. NO EQUIPMENT SHALL BE ABANDONED IN PLACE. DEMO DRAWING SHOWS MAJOR PIECES OF EQUIPMENT KNOWN BASED ON SITE SURVEY HOWEVER MAY NOT SHOW ALL ITEMS.

NUMBERED NOTES

- ① DEMO (E) HEATING UNIT. DUCT PENETRATIONS THRU WALL AND ROOF SHALL REMAIN TO MAINTAIN AESTHETIC AT EXTERIOR OF BUILDING. DUCTS SHALL BE CAPPED AND SEALED RELATIVELY FLUSH WITH INTERIOR BUILDING WALL AND FIRMLY SECURED TO BUILDING (SEE DETAIL 3).
- ② DEMO (E) PAINT ROOM EXHAUST DUCT. PENETRATION THRU ROOF SHALL REMAIN TO MAINTAIN AESTHETIC AT EXTERIOR OF BUILDING. DUCTS SHALL BE CAPPED AND SEALED FLUSH WITH INTERIOR BUILDING WALL.
- ③ DEMO (E) GAS FIRED SUSPENDED HEATERS INCLUDING EXHAUST FLUES. PENETRATION THRU ROOF SHALL REMAIN TO MAINTAIN AESTHETIC AT EXTERIOR OF BUILDING. DUCTS SHALL BE CAPPED AND SEALED FLUSH WITH INTERIOR BUILDING WALL.
- ④ DEMO (E) WALL MOUNTED UNIT. ENSURE REFRIGERANT IS PROPERLY AND LEGALLY CONTAINED, HANDLED AND DISPOSED OF.
- ⑤ DEMO (E) CONDENSING UNIT AND ASSOCIATED PIPING. DEMO (E) ASSOCIATED INTERIOR UNIT. EXACT LOCATION OF INTERIOR UNIT IS UNKNOWN. CONTRACTOR TO FOLLOW PIPING FROM CONDENSING UNIT TO FIELD VERIFY INTERIOR UNIT LOCATION.

② REPLACED PER ADDENDUM NO. 2 DATED SEPTEMBER 18, 2015

CHRIS FARIA DESIGN OVERSIGHT 08/24/15 SIGN OFF DATE DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)	<table border="1"> <thead> <tr> <th>MARK</th> <th>DATE</th> <th>DESCRIPTIONS REVISIONS</th> <th>BY</th> <th>CHD</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	MARK	DATE	DESCRIPTIONS REVISIONS	BY	CHD						DESIGN BY WSP CHECKED WSP	PREPARED FOR THE BAY AREA TOLL AUTHORITY	KAREN Y. WANG PROJECT ENGINEER	BRIDGE NO	BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT MECHANICAL DEMOLITION PLAN, GL 1-6	SHEET
		MARK	DATE	DESCRIPTIONS REVISIONS	BY	CHD											
POST MILES 2.0	UNIT: 04 PROJECT NUMBER AND PHASE: 04-15000182 CONTRACT NO.: 04-01413	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET OF 23 124														

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



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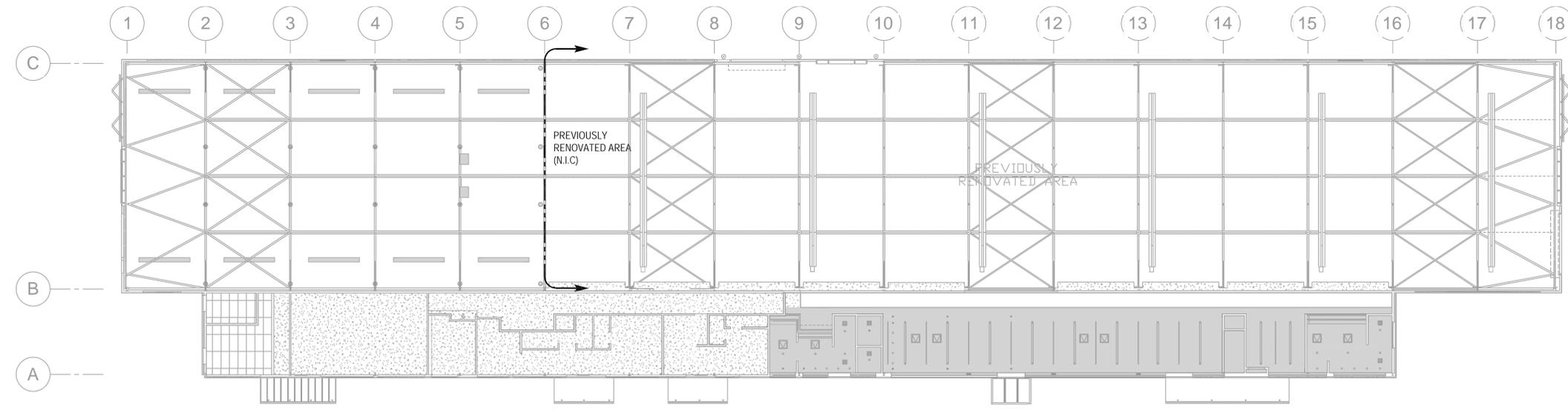
JAMES R. GRONEK
REGISTERED ENGINEER

08/17/15
DATE

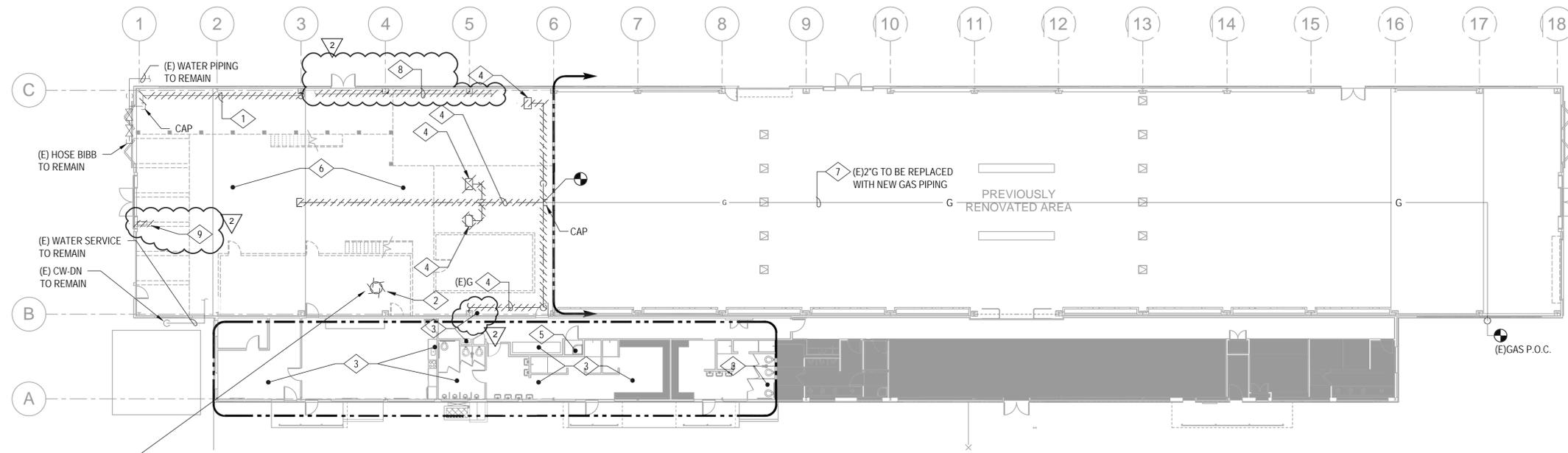
08/24/15
PLANS APPROVAL DATE

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PHASE 2 DEMO - ENLARGED RCP
1/16" = 1'-0" ②



PHASE 2 DEMO - ENLARGED PLAN
1/16" = 1'-0" ①

- SHEET NOTES**
- A. DEMOLITION SHALL BE PERFORMED IN SUCH A MANNER THAT WILL NOT DAMAGE ADJOINING SURFACES OR EQUIPMENT INDICATED TO REMAIN.
 - B. WHERE DEMOLITION WOULD AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH DEMOLITION.
 - C. REMOVE ALL EXISTING PIPING AND EQUIPMENT NOT REQUIRED FOR RE-USE. SEE NOTE "A" ABOVE.

- NUMBERED NOTES**
- ① REMOVE PIPING AS SHOWN AND CAP AT NEAREST VALVE OR MAIN LINE. REMOVED PIPING, FIXTURES, AND TRIM SHALL REMAIN THE PROPERTY OF THE OWNER AND THE CONTRACTOR SHALL STORE ON SITE OR REMOVE FROM SITE FIXTURES AS DIRECTED BY OWNER.
 - ② EXISTING WATER HEATER, VALVES AND ASSOCIATED PIPING NOT REQUIRED FOR RE-USE TO BE REMOVED. NOTE THAT WATER HEATER IS LOCATED ON SECOND FLOOR / MEZZANINE.
 - ③ REMOVE ALL EXISTING WATER CLOSETS AND PARTITIONS, URINALS, FLUSHOMETERS, LAVATORIES, FAUCETS, SHOWER HEADS, KITCHEN SINKS, DRINKING FOUNTAINS, CONTROLS AND ASSOCIATED EXPOSED WASTE, VENT AND COLD/HOT WATER PIPING NOT REQUIRED FOR RE-USE. CAP ALL SUPPLY AND DRAIN LINES BELOW FLOOR, BEHIND FINISHED WALL AND/OR ABOVE CEILING. EXISTING FLOOR SINKS/FLOOR DRAINS AND ASSOCIATED SANITARY, VENT PIPING AND TRAP PRIMER VALVES WITH TRAP PRIMER LINES ARE TO REMAIN.
 - ④ REMOVE EXISTING HEATERS AND ASSOCIATED VALVING AND PIPING NOT REQUIRED FOR RE-USE AND AS REQUIRED TO COMPLETE SEISMIC RETROFIT. REFER TO ARCHITECTURAL DEMOLITION PLANS FOR ACTUAL HEATER LOCATION.
 - ⑤ EXISTING JANITORS SINK, FAUCET, ASSOCIATED VALVING AND PIPING TO REMAIN.
 - ⑥ CONTRACTOR TO DEMOLISH ALL SUPPLEMENTARY SPRINKLER SYSTEMS BENEATH MEZZANINES AND WITHIN MISCELLANEOUS STRUCTURES WITH THE HIGH BAY, WHICH THEMSELVES ARE TO BE DEMOLISHED. THIS INCLUDES ALL DROPS AND ASSOCIATED PIPING. DEMO SPECIFIC HIGH BAY CONDITIONS AS REQUIRED TO PERFORM THE SEISMIC PORTION OF THE WORK. CONTRACTOR IS RESPONSIBLE FOR ALL WORK ASSOCIATED WITH PERFORMING THE SEISMIC STRENGTHENING.
 - ⑦ EXISTING 2" GAS LINE LOCATED IN CENTER OF BUILDING SHALL BE REMOVED FOR ACCESS TO RIVETS AND REPLACED WITH NEW GAS PIPING.
 - ⑧ REMOVE ALL EXISTING AIR, GAS, AND WATER UTILITIES NOT REQUIRED FOR REUSE.
 - ⑨ REMOVE EXISTING FIRE HOSE.



EXISTING WATER HEATER TO BE REMOVED
NTS ③
② REPLACED PER ADDENDUM NO. 2 DATED SEPTEMBER 18, 2015

P:\2014\07680\---Bridge_Yard\CAD\PLANS\SHEETS\07680P101.dwg
 08/24/15
 2015 September 14 16:40:03 PDT
 Plotted:

CHRIS FARIA DESIGN OVERSIGHT 08/24/15 SIGN OFF DATE	<table border="1"> <tr> <th>MARK</th> <th>DATE</th> <th>DESCRIPTIONS</th> <th>BY</th> <th>CHD</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	MARK	DATE	DESCRIPTIONS	BY	CHD						DESIGN BY WSP CHECKED WSP	PREPARED FOR THE BAY AREA TOLL AUTHORITY	KAREN Y. WANG PROJECT ENGINEER	BRIDGE NO 2.0	BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT PLUMBING DEMOLITION PLAN	SHEET DP101
		MARK	DATE	DESCRIPTIONS	BY	CHD											
DETAILS BY CHECKED	UNIT: 04 PROJECT NUMBER AND PHASE: 04-15000182	CONTRACT NO.: 04-01413															
QUANTITIES BY CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES															

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	AL	80	2.0	40	124

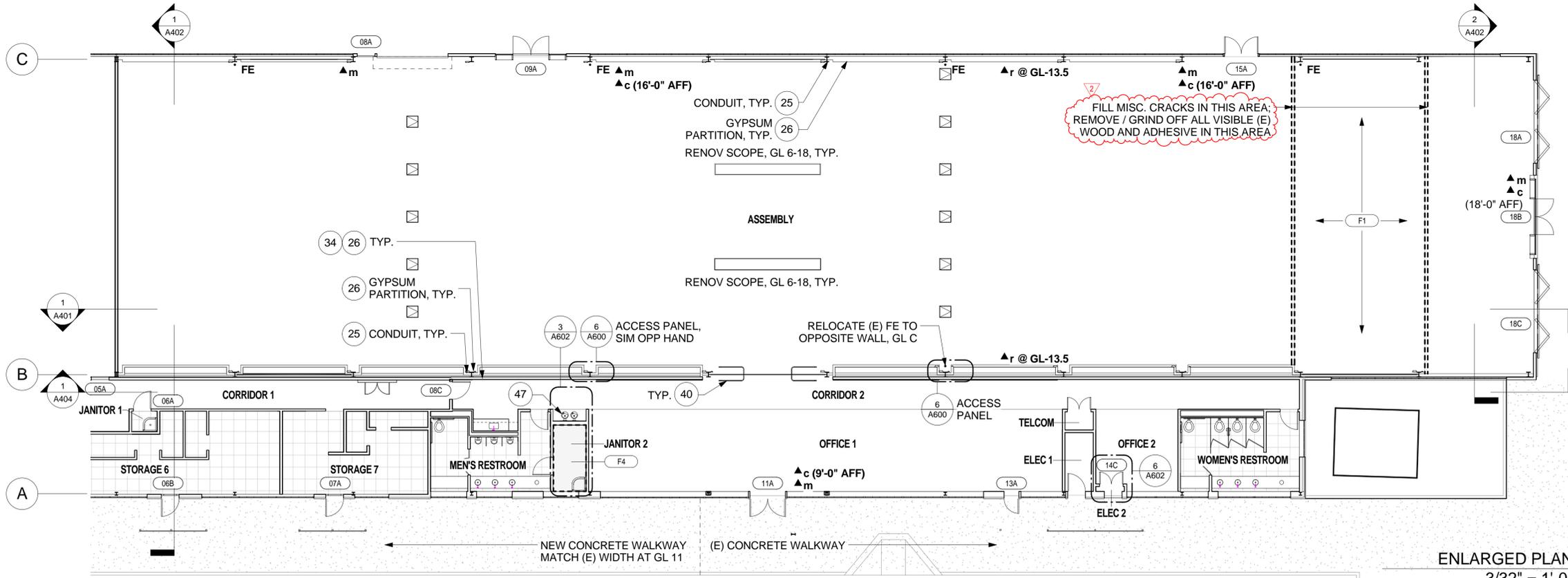
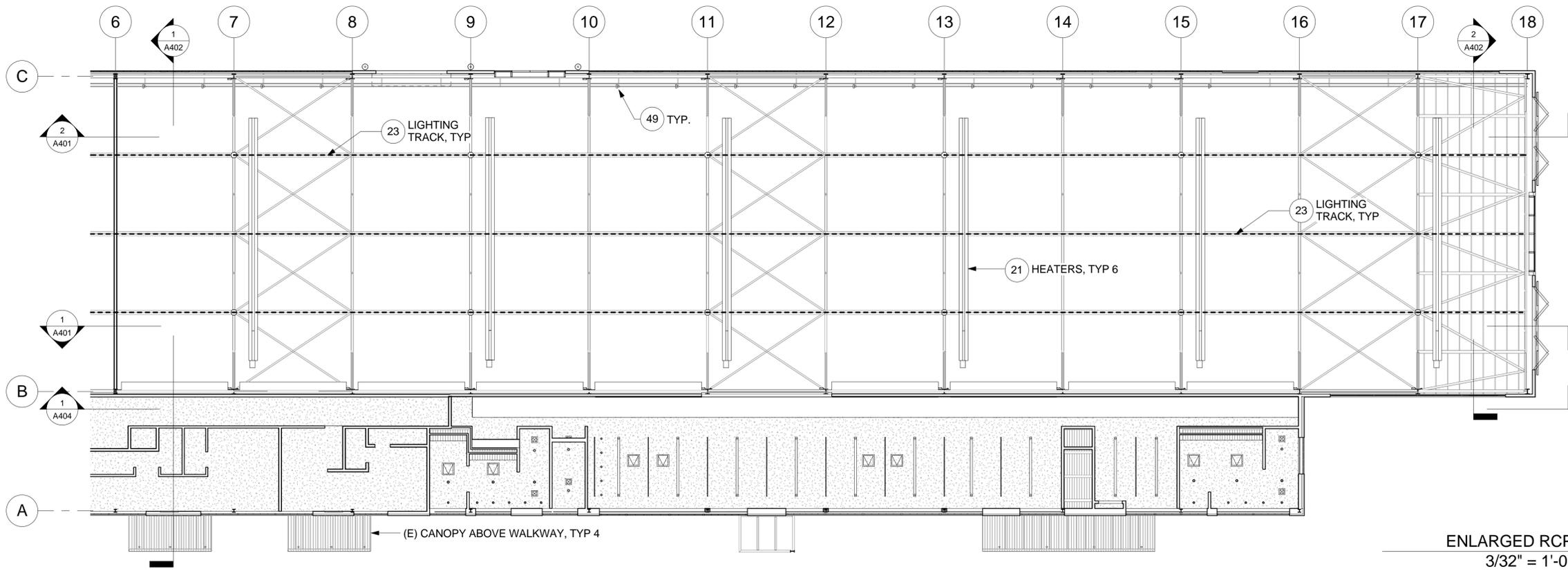
08/17/15 DATE
 GREGORY P. BAKER
 C-16884
 10/31/15 RENEWAL DATE
 STATE OF CALIFORNIA
 LICENSED ARCHITECT

08/24/15 APPROVAL DATE
 PLANS

HNTB CORPORATION
 1111 BROADWAY
 9TH FLOOR
 OAKLAND, CA 94607

HNTB HNTB Corporation
 Engineers Architects Planners

- RENOVATION KEYNOTES:**
- REPLACE STORED HEATERS FROM DEMO PHASE UPON COMPLETION OF SEISMIC RETROFIT.
 - INSTALL NEW HEATERS.
 - REPLACE STORED LIGHTING TRACK AND FIXTURES UPON COMPLETION OF SEISMIC RETROFIT.
 - INSTALL NEW LIGHTING TRACK AND FIXTURES.
 - RE-ROUTE CUT-BACK CONDUIT AS REQUIRED TO POWER DEVICES AND LIGHTING.
 - REPLACE GYPSUM BOARD AND PLYWOOD REMOVED IN DEMO PHASE.
 - RE-INSTALL FIRE ALARMS AS SHOWN ON ELECTRICAL DRAWINGS AND DETAILS.
 - RE-INSTALL EMERGENCY LIGHTING AS SHOWN ON ELECTRICAL DRAWINGS AND DETAILS.
 - RE-INSTALL STROBES AS SHOWN ON ELECTRICAL DRAWINGS AND DETAILS.
 - RE-INSTALL EXIT SIGN AS SHOWN ON ELECTRICAL DRAWINGS AND DETAILS.
 - REPLACE FIRE EXTINGUISHERS.
 - NEW ACCESS PANEL.
 - REPLACE REMOVED FRAMING AND GYPSUM BOARD OR PLYWOOD WHERE OCCURS TO MATCH (E) CONSTRUCTION. PROVIDE PENETRATIONS FOR ALL ELECTRICAL AND UTILITIES AS REQ.
 - REPLACE STORED ACOUSTIC BOARDS FROM DEMO PHASE UPON COMPLETION OF GYPSUM BOARD AND PLYWOOD REPLACEMENT.
 - TRANSITE - PROVIDE NEW METAL WALL PANELS OVER (E) TRANSITE PANELS BELOW A HEIGHT OF 6'-0" U.N.O.
 - TRANSITE - PROVIDE FIBER ENCAPSULATING COATING OVER (E) VERTICAL AND SLOPED TRANSITE PANELS ABOVE A HEIGHT OF 6'-0" U.N.O.
 - RE-PUTTY ALL (E) GLAZING.
 - PATCH AND REPAIR ROOF PENETRATIONS.
 - NEW LIGHT FIXTURE.
 - ADA RAILING.
 - PATCH, REPAIR, AND PAINT (E) GYPSUM BOARD.
 - METAL LINEAR GRILLE.
 - W1 GLAZING FILM.
 - W2 GLAZING FILM.
 - W3 GLAZING FILM.
 - WINDOW HARDWARE.
 - INSTALL NEW DRINKING FOUNTAIN.
 - NEW FENCE AT TOWER.
 - SIGN LIGHT TRACK FIXTURE.
 - PROVIDE FULL HEIGHT PLYWOOD BACKING FOR ELECTRICAL PANELS AS SHOWN.



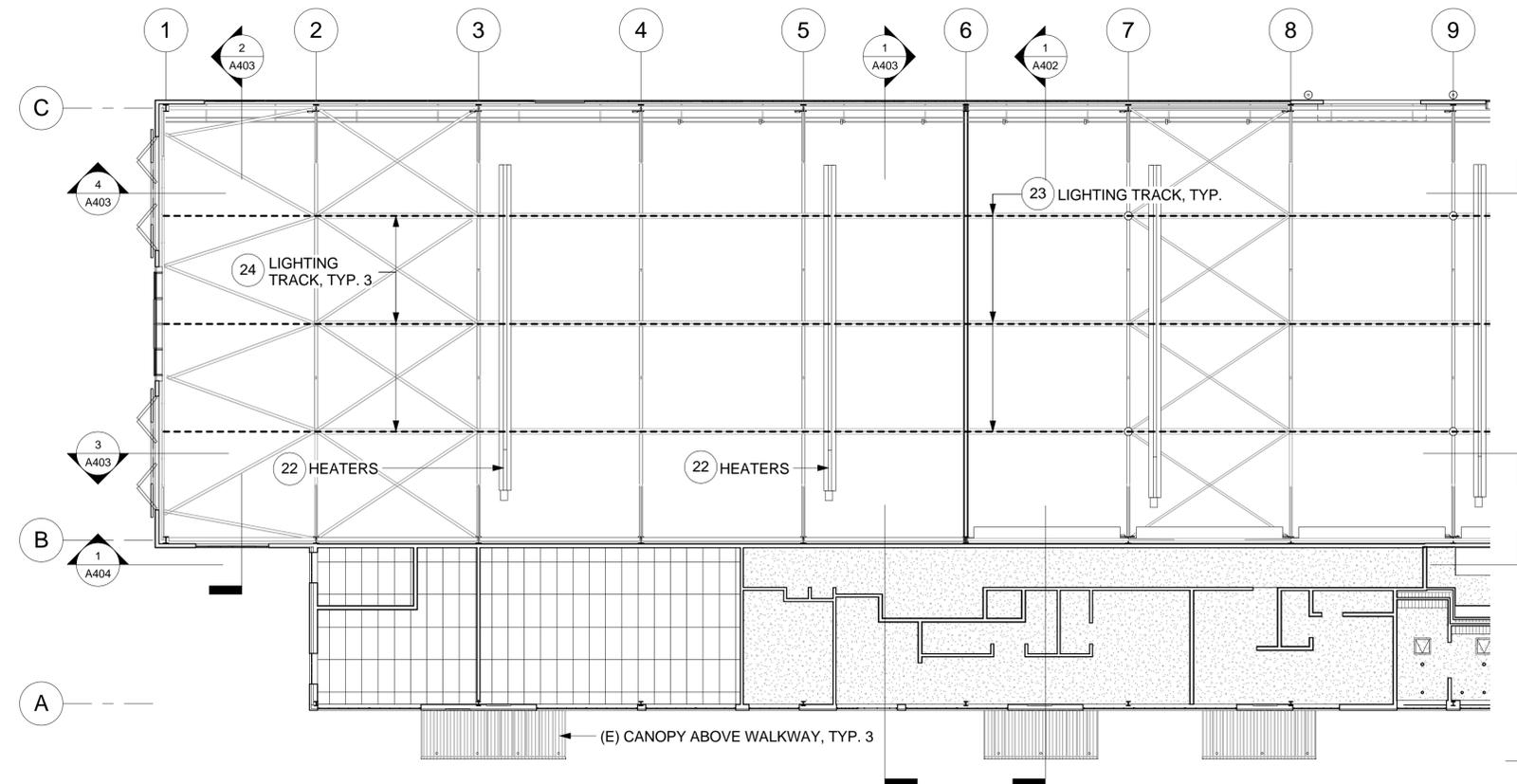
NOTES:

- FOR FINISH SCHEDULE DEFINITION AND REQUIREMENTS, SEE A500.
- FOR SCOPE OF INTERIOR PAINTING BETWEEN GL A & C FROM GL 6-18, SEE NOTES ON SHEETS: A401, A402, A404, A410, A411.
- FOR SECURITY DEVICE INFO, SEE A202.

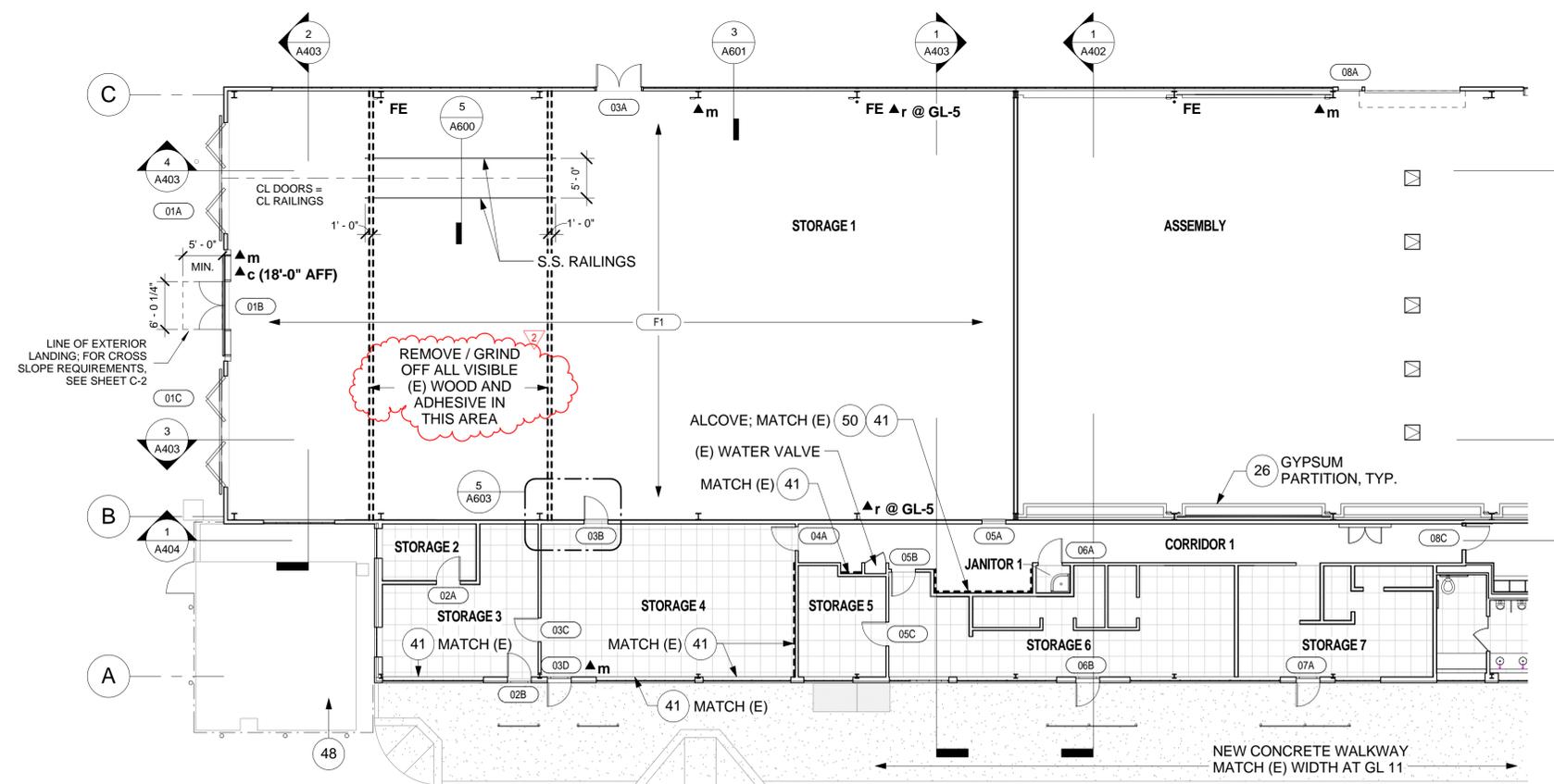
REPLACED PER ADDENDUM NO. 2 DATED SEPTEMBER 18, 2015

FRANK THOMAS DESIGN OVERSIGHT 08/24/15 SIGN OFF DATE	MARK DATE DESCRIPTIONS BY CHD	DESIGN BY BAN JUNG DETAILS BY QUANTITIES BY	CHECKED GREGORY BAKER CHECKED CHECKED	PREPARED FOR THE BAY AREA TOLL AUTHORITY	KAREN Y. WANG PROJECT ENGINEER	BRIDGE NO POST MILES 2.0	BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT ENLARGED PLANS, GL 6-18	SHEET A201
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 04 PROJECT NUMBER AND PHASE: 04-15000182		CONTRACT NO.: 04-01413		REVISION DATES SHEET 40 OF 124

9/18/2015 12:56:39 PM



ENLARGED RCP
3/32" = 1'-0" ②



ENLARGED PLAN
3/32" = 1'-0" ①

NOTES:

- FOR FINISH SCHEDULE DEFINITION AND REQUIREMENTS, SEE A500.
- FOR SCOPE OF INTERIOR PAINTING BETWEEN GL B & C FROM GL 1-9, SEE NOTES ON SHEETS: A403, A412, A413.

SECURITY DEVICES (OWNER FURNISHED / OWNER INSTALLED)

- ▲_m MOTION DETECTION
- ▲_c SECURITY CAMERA
- DOOR CONTACTS - SEE DOOR SCHEDULE, A500
- ▲_r WIRELESS REPEATER

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	ALA	80	2.0	41	124

08/17/15
DATE

REGISTERED ARCHITECT

08/24/15
APPROVAL DATE

PLANS

Gregory P. Baker

GREGORY P. BAKER
C-16884
10/31/15
RENEWAL DATE

STATE OF CALIFORNIA

HNTB CORPORATION
1111 BROADWAY
9TH FLOOR
OAKLAND, CA 94607

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Engineers Architects Planners

RENOVATION KEYNOTES:

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② REPLACED PER ADDENDUM NO. 2 DATED SEPTEMBER 18, 2015

FRANK THOMAS DESIGN OVERSIGHT 08/24/15 SIGN OFF DATE	MARK DATE DESCRIPTIONS BY CHD	DESIGN BY BAN JUNG DETAILS BY QUANTITIES BY	CHECKED GREGORY BAKER CHECKED CHECKED	PREPARED FOR THE BAY AREA TOLL AUTHORITY	KAREN Y. WANG PROJECT ENGINEER	BRIDGE NO POST MILES 2.0	BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT ENLARGED PLANS, GL 1-6	SHEET A202
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 04 PROJECT NUMBER AND PHASE: 04-15000182		CONTRACT NO.: 04-01413		REVISION DATES SHEET 41 OF 124

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A. GENERAL STRUCTURAL NOTES

1. ALL EXISTING CONDITIONS AND ASSOCIATED DIMENSIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES OR CONFLICTS BETWEEN EXISTING CONDITIONS AND DESIGN DETAILS INDICATED BY THESE DRAWINGS.
2. EMBEDDED ITEMS SUCH AS PIPES, INSERTS, SLEEVES AND CONDUITS, AND ANY RECESSES OR OPENINGS REQUIRED FOR UTILITY, ARCHITECTURAL, MECHANICAL AND ELECTRICAL INSTALLATIONS ARE NOT NECESSARILY SHOWN ON THE STRUCTURAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF THE UTILITY, ARCHITECTURAL, MECHANICAL, ELECTRICAL CONTRACT/REFERENCE DRAWINGS AND FINAL CONSTRUCTION DRAWINGS FOR THE LOCATIONS AND DETAILS OF THESE ITEMS.
3. STRUCTURAL SEISMIC RETROFIT DESIGN IS IN ACCORDANCE WITH THE 2013 CALIFORNIA BUILDING CODE, AND ASCE STANDARDS ASCE/SEI 31-03 & 41-06. THE BUILDING TYPE CONSISTS OF STEEL BRACED FRAMES (S2A) AND MOMENT RESISTING FRAMES (S1A) FOR THE LONGITUDINAL AND TRANSVERSE DIRECTIONS, RESPECTIVELY, THE SEISMIC IMPORTANCE FACTOR IS 1, AND RISK CATEGORY II, S_{DS}=0.90g AND S_{D1}=0.96g.
4. THE PERFORMANCE LEVEL CATEGORY OF THE STRUCTURE IS LIFE SAFETY. THE SITE SEISMICITY LEVEL IS HIGH AND THE SITE-SPECIFIC DESIGN RESPONSE SPECTRA ARE BASED ON GEOTECHNICAL ENGINEERING FOUNDATION REPORT PREPARED BY EARTH MECHANICS, INC. DATED MARCH 2013. THE SITE IS CLASS E, THE DESIGN BASE SHEAR IS 450 KIPS, AND THE RESPONSE MODIFICATION FACTORS ARE R=5.5 IN LONGITUDINAL DIRECTION AND R=1.0 IN THE TRANSVERSE DIRECTION. THE STRUCTURE WAS ANALYZED BY THE RESPONSE SPECTRUM ANALYSIS METHOD.
5. ALL NON-STRUCTURAL ELEMENTS AND UTILITIES THAT INTERFERE WITH THE SEISMIC RETROFIT OF STRUCTURAL MEMBERS SHALL BE PARTIALLY OR FULLY REMOVED.

B. CONCRETE

1. UNLESS OTHERWISE NOTED OR SPECIFIED, ALL STRUCTURAL CONCRETE SHALL BE NORMAL WEIGHT. MINIMUM COMPRESSIVE CONCRETE STRENGTH AT 28 DAYS SHALL BE f'c = 4000 psi
2. THE CONCRETE MIX SHALL CONSIST OF TYPE II MODIFIED CEMENT WITH A MINIMUM CEMENTITIOUS MATERIAL CONTENT OF 675 lb/cy. THE MAXIMUM WATER-TO-CEMENTITIOUS MATERIAL RATIO SHALL BE 0.4.
3. ALL REINFORCING BARS, ANCHOR THREADED RODS AND INSERTS TO BE WELL SECURED PRIOR TO POURING CONCRETE.
4. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL ACCESSORIES AND INSERTS TO BE CAST IN CONCRETE.
5. FOUNDATION CONTRACTORS SHALL COORDINATE EMBEDS AND ANCHORAGES FOR OTHER WORK TO BE ATTACHED OR ANCHORED TO CAST IN PLACE FOUNDATION WITH APPROPRIATE CONTRACTORS.
6. MINIMUM CONCRETE PROTECTIVE COVER FOR CONCRETE PEDESTAL SHALL BE 1".

C. REINFORCING STEEL

1. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A706 SPECIFICATIONS, GRADE 60, WITH NOMINAL YIELD STRENGTH OF 60,000 psi.
2. FIELD WELDING OF REINFORCEMENT SHALL NOT BE ALLOWED UNLESS NOTED OTHERWISE OR UNLESS PRIOR APPROVAL IS OBTAINED FROM THE ENGINEER. WELDING OF REINFORCING BARS SHALL CONFORM TO LATEST STRUCTURAL WELDING CODE AWS D1.4.

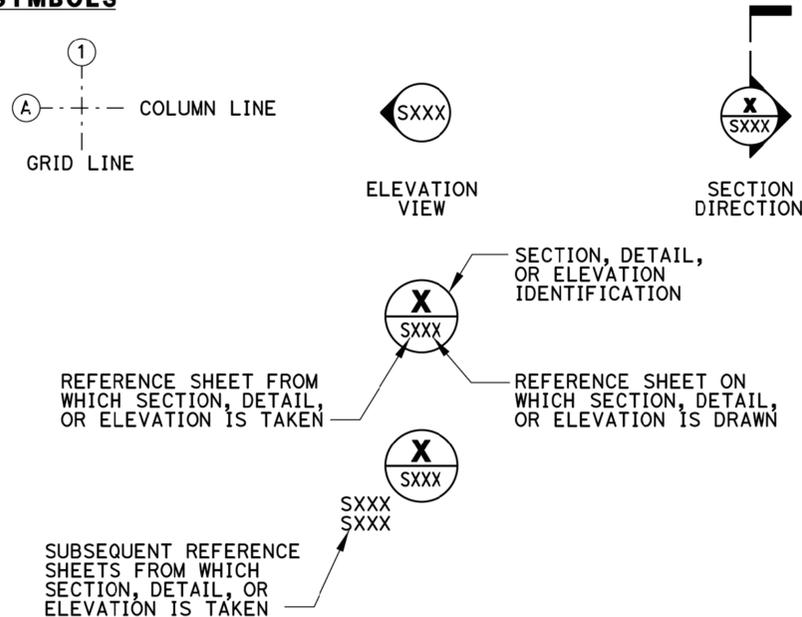
D. STRUCTURAL STEEL

1. ALL STEEL SHALL MEET ASTM A992, GRADE 50. EXCEPT ANGLES AND PLATES SHALL MEET ASTM A572 GRADE 50 UNLESS NOTED OTHERWISE.
2. WELDING - ALL WELDING SHALL BE IN ACCORDANCE WITH THE LATEST STRUCTURAL WELDING CODE AWS D1.1.
3. ALL WELDED CONNECTIONS SHALL BE MADE WITH ELECTRODES CONFORMING TO AWS A5.1 OR A5.5.
4. ALL NEW BOLTS SHALL BE ASTM A325 HIGH STRENGTH BOLTS TYPE I U.N.O.
5. ALL BOLTS SHALL BE HIGH STRENGTH BOLTS CONFORMING TO ASTM A325, WITH THREADS EXCLUDED FROM SHEAR PLANE PER R.C.S.C. SPECIFICATIONS, U.N.O.
6. THE JOINTS FOR COLUMN PLATING INSTALLATION SHALL BE SLIP-CRITICAL TYPE CLASS A, AND RIVET REPLACEMENT SHALL BE PRE-TENSIONED TYPE, PER AISC REQUIREMENTS.
7. STEEL WORK SHALL CONFORM TO ALL REQUIREMENTS OF AISC "2010 CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".

DRAWING INDEX

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S102	RIVETS REMOVAL PLAN AND DETAILS
S103	ENCLOSURE AREAS FOR PAINT REMOVAL
S201	PAINT REMOVAL LIMITS
S202	PAINT REMOVAL SECTIONS
S203	PAINT REMOVAL SECTIONS AND DETAILS NO. 1
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S301	FLOOR LEVEL PLAN
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S311	TRUSS SECTIONS AND DETAILS NO. 1
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S328	COLUMN SECTIONS AND DETAILS NO. 7
S329	COLUMN DETAILS AT WINDOW AND SIDING FRAMING ATTACHMENTS
S331	PEDESTAL ENLARGEMENT DETAIL @ COL. LINE B
S332	PEDESTAL ENLARGEMENT DETAIL @ COL. LINE C
S333	ANCHOR RODS & PEDESTAL ENLARGEMENT SECTIONS AND DETAILS

SYMBOLS



ABBREVIATIONS

AB & @	Anchor Bolt And At
∠	Angle
Add'l APPROX	Additional Approximate
Bm Brg Bott B.O.	Beam Bearing Bottom Bottom of
C Col Conc Const Const Jt Cont Contr Comp Clr	Channel(Structural) Column Concrete Construction Construction Joint Continuous Contraction Composite Center Line Clear
DL Deg or ° Det Diag DIA or ø Dim Dbl DN Dwg Do.	Dead Load Degree Detail Diagonal Diameter Dimension Double Down Drawing Ditto
Ea EF EW EL EQ or = Exp (E) EXIST	Each Each Face Each way Elevation Equal Expansion Existing Existing
F to F Fin FB Fl FD Ftg Fdn F.S. Ga Galv Gr	Face to Face Finish Flat Bar Floor Floor Drain Footing Foundation Far Side Gage Galvanized Grade
HR Ht HP HSS H.S. H.S.B. Horiz	Hand Rail Height High Point Hollow Structural Section High Strength High Strength Bolt Horizontal
ID IF Inv Jt kg kN kPa	Inside Diameter Inside Face Invert Joint Kilogram Kilonewton Kilopascal
LS L Lin LL Lg LP	Left side Length Linear, Lineal Live Load Long Low Point
MH MB Mtl Max Mpa m mm Min Misc M.C. MEP	Man Hole Machine Bolt Material Maximum Megapascal Meter Millimeter Minimum Miscellaneous Moment Connection Mechanical Electrical Plumbing
NF Neg Noml NIC No. # N.S. (N)	Near Face Negative Nominal Not in Contract Number Number (Rebar Size) Near Side New
OC Opng OPP. HAND OD O.F.	On Center Opening Opposite Hand Outside Diameter Outside Face
PL or Ⓡ	Plate
R Ref Reinf RC Rev RS RD	Radius Reference Reinforcing Reinforced Concrete Revision or Revise Right Side Roof Drain
Sch Sect Sht Sim Spec Sq Sq m Std Stl Stiff Sym	Schedule Section Sheet Similar Specification Square Square Meter Standard Steel Stiffener Symmetrical
T & B T.O. T.O.C T.O.P T.O.S TYP	Top and Bottom Top of Top of Concrete Top of Plate Top of Steel Typical
UNO or U.N.O.	Unless Noted Otherwise
VERT	Vertical
WP Wt WL W/	Work Point Weight Wind Load With

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	ALA	80	2.0	92	124

08/17/15 DATE

08/24/15 DATE

PLANS APPROVAL DATE

The state of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

Parsons Brinckerhoff
425 Market Street
17th Floor
San Francisco, CA 94105

08/17/15 DATE

REGISTERED PROFESSIONAL ENGINEER

Gregory Benkovich
No. C40518
Exp. 3/31/17
CIVIL

STATE OF CALIFORNIA

REPLACED PER ADDENDUM NO. 2 DATED SEPTEMBER 18, 2015

SEAN SAMUEL DESIGN OVERSIGHT 08/24/15 SIGN OFF DATE	MARK DATE DESCRIPTIONS REVISIONS	DESIGN BY G. BENKOVICH CHECKED V. LOPEZ	DETAILS BY O. KURNOVSKAYA CHECKED G. BENKOVICH	QUANTITIES BY M. MOORE CHECKED G. BENKOVICH	PREPARED FOR THE BAY AREA TOLL AUTHORITY	R. DONIKIAN PROJECT ENGINEER	BRIDGE NO POST MILES 2.0	BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT GENERAL STRUCTURAL NOTES	SHEET S001
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)						UNIT: 04 PROJECT NUMBER AND PHASE: 04-15000182	CONTRACT NO.: 04-01413	REVISION DATES	SHEET 92 OF 124

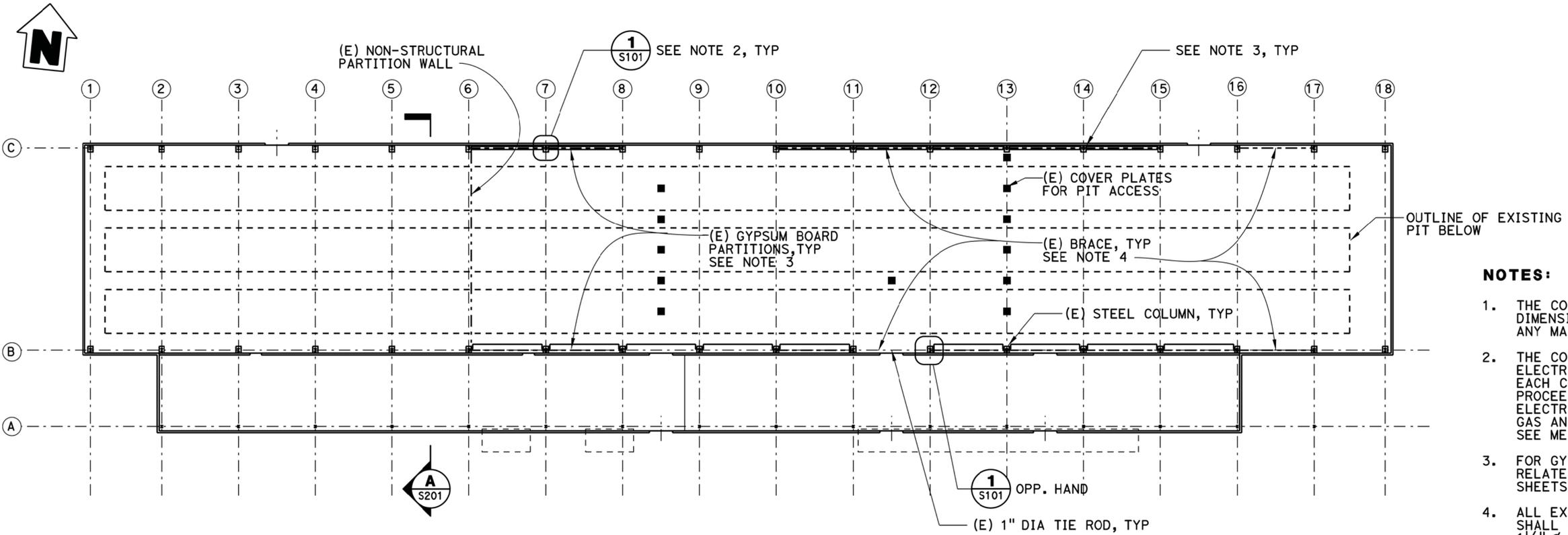
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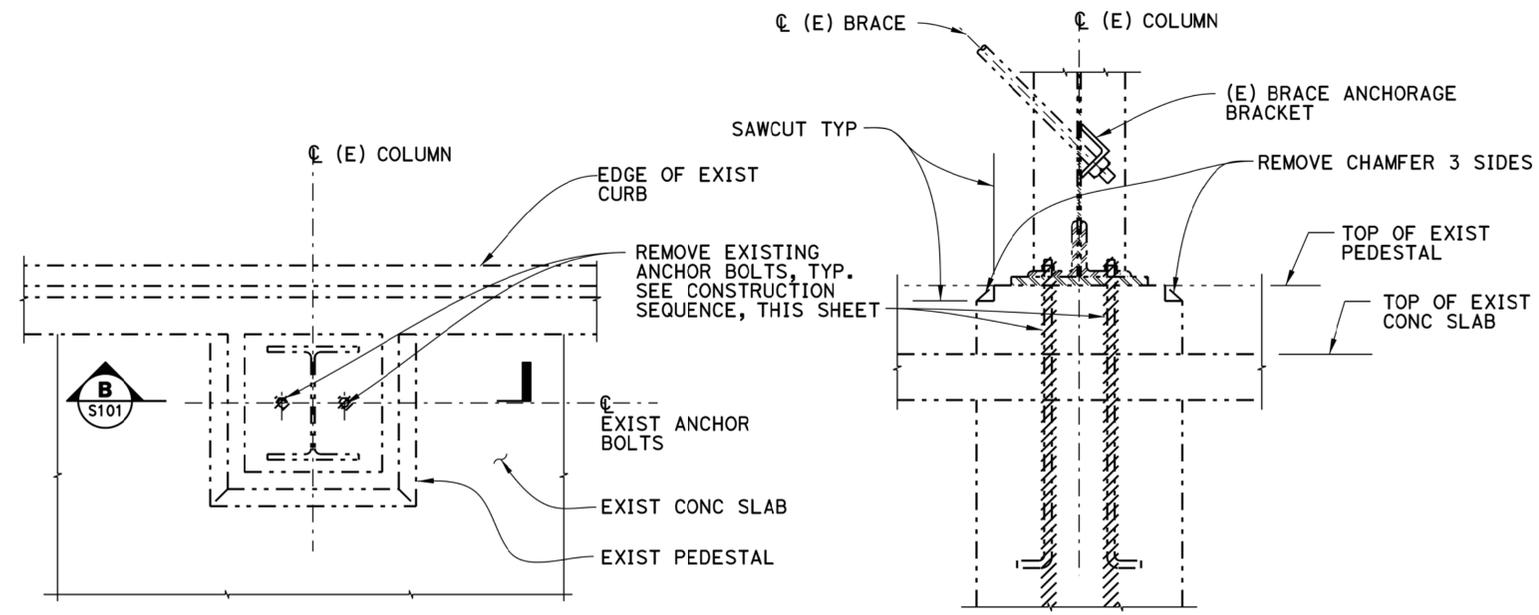
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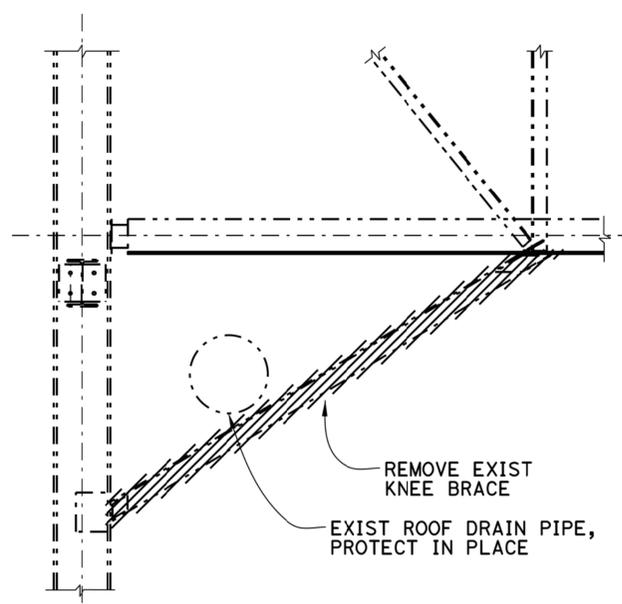
FLOOR LEVEL PLAN
1/16" = 1'-0"

- NOTES:**
1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
 2. THE CONTRACTOR SHALL SURVEY LOCATIONS OF ALL ELECTRICAL CONDUITS AND CONDUIT SUPPORTS AT EACH COLUMN AT COLUMN LINES B & C BEFORE PROCEEDING WITH REMOVAL. FOR REMOVAL OF ELECTRICAL CONDUITS, CONDUIT SUPPORT, HEATERS, GAS AND WATER SUPPLY AND RELATED DEMOLITION, SEE MEP DEMOLITION SHEETS.
 3. FOR GYPSUM BOARD PARTITIONS REMOVAL AND ALL RELATED DEMOLITION, SEE ARCHITECTURAL DEMOLITION SHEETS.
 4. ALL EXISTING BRACES ALONG COLUMN LINES B AND C SHALL BE REMOVED AND REPLACED WITH NEW 1 1/4" Ø ASTM A572 GRADE 60 BAR WITH MINIMUM Fy=60 ksi AND NOT TO EXCEED 66 ksi, 16 TOTAL.



DETAIL 1
1/2" = 1'-0" S101

SECTION B
1/2" = 1'-0" S101



SECTION C
3/4" = 1'-0" S102

LEGEND:
 INDICATES REMOVAL

- CONSTRUCTION SEQUENCE:**
 REMOVAL EXISTING ANCHOR BOLTS
1. THE CONTRACTOR SHALL REMOVE AND REPLACE EACH OF EXISTING ANCHOR BOLTS WITH 1 1/4" Ø NEW ANCHOR RODS ONE AT A TIME. SEE SHEET S333 FOR THREADED ANCHOR ROD INSTALLATION.
 2. CONTRACTOR SHALL REMOVE ONE OF TWO EXISTING TIE ROD CROSS-BRACES ONLY, ONE BRACED BAY AT A TIME PER COLUMN LINE. EXISTING BRACE ANCHORAGE BRACKET SHALL BE REMOVED FOR ANCHOR ROD INSTALLATION AND REPLACED IN KIND.
 3. DRILL OUT EXISTING ANCHOR BOLTS.

REPLACED PER ADDENDUM NO. 2 DATED SEPTEMBER 18, 2015

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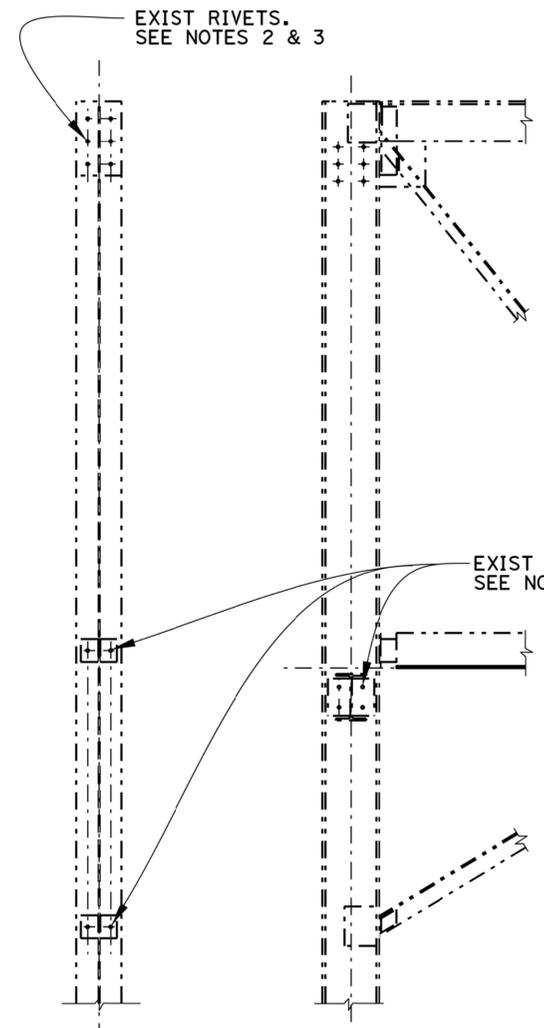
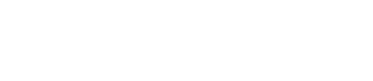
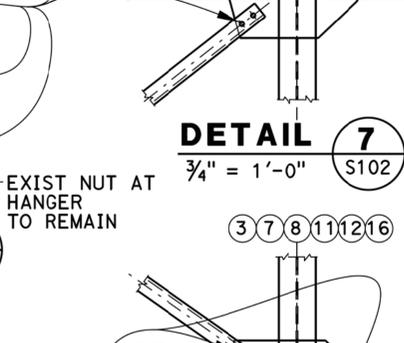
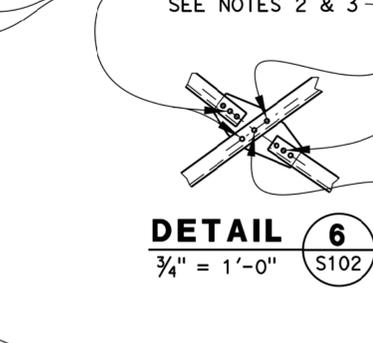
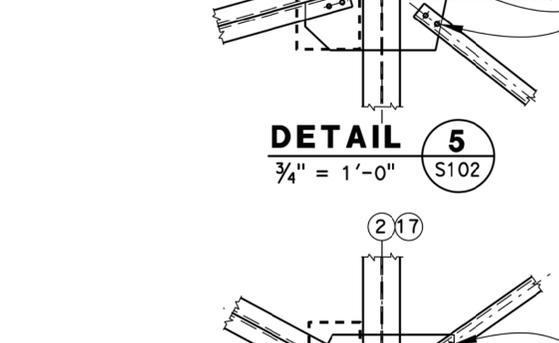
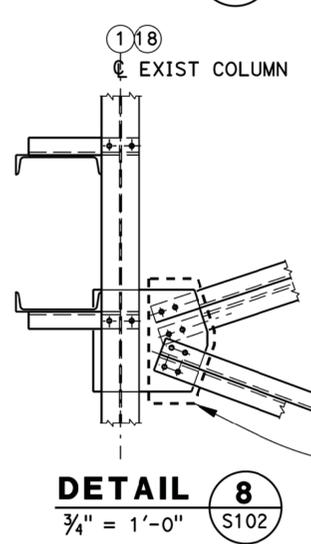
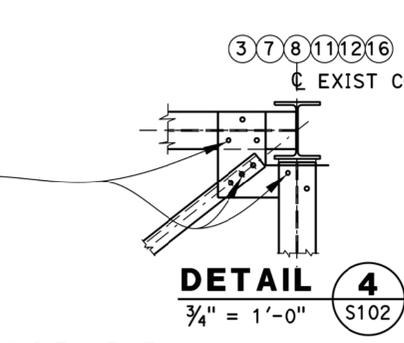
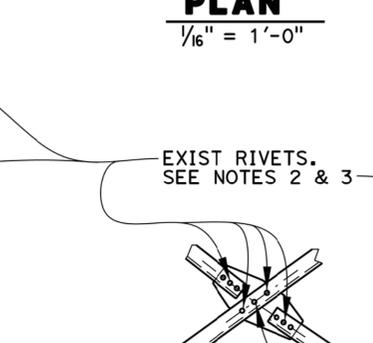
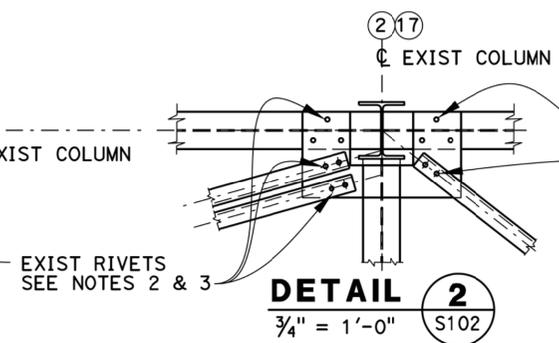
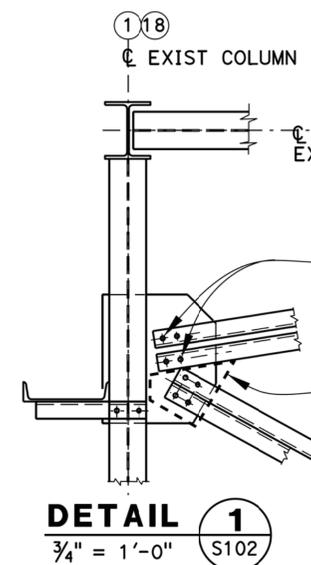
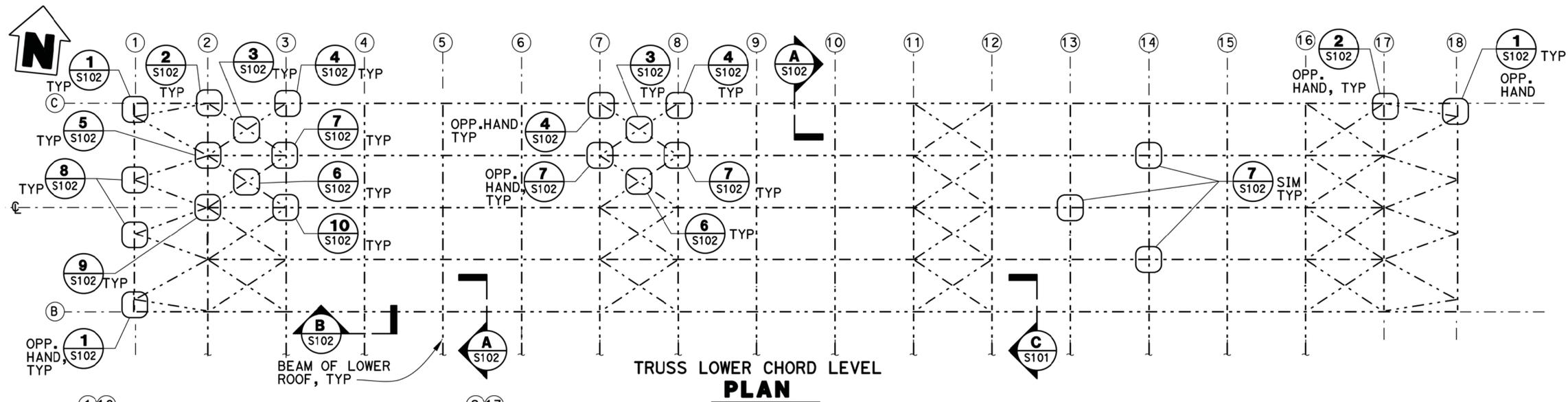
08/24/15
 PLANS APPROVAL DATE

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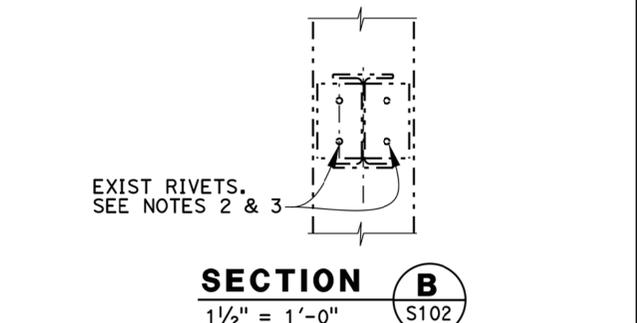
08/17/15
 DATE

Gregory Benkovich
 REGISTERED PROFESSIONAL ENGINEER
 No. C40518
 Exp. 3/31/17
 CIVIL
 STATE OF CALIFORNIA



- NOTES:**
1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
 2. THE CONTRACTOR SHALL SURVEY DIAMETER AND LOCATION OF EXISTING RIVETS BEFORE PROCEEDING WITH RIVETS REMOVAL AND REPLACEMENT.
 3. THE CONTRACTOR SHALL REPLACE EXISTING RIVETS WITH A325 HIGH STRENGTH BOLTS WITH SAME DIAMETER AS RIVETS TO BE REPLACED.
 4. ALL EXISTING RIVETS SHOWN IN DETAILS 1 THROUGH 10 SHALL BE REPLACED U.N.O.

- RIVETS REMOVAL/REPLACEMENT CONSTRUCTION SEQUENCE**
1. REMOVE PAINT FROM OUTSIDE SURFACES OF CONNECTING PARTS AT RIVETS.
 2. REMOVE ONLY ONE RIVET AT CONNECTION.
 3. CLEAN AREA AROUND THE HOLE OF EXISTING CONNECTION AND REMOVE REMAINING PAINT.
 4. PREPARE CONTACT SURFACES FOR PRE-TENSIONED TYPE CONNECTION REQUIREMENTS.
 5. INSTALL NEW A325 HIGH STRENGTH BOLT.
 6. REPEAT SEQUENCE 2 THRU 5 WITH NEXT RIVET, AND COMPLETE ENTIRE JOINT.
 7. THIS PROCEDURE MAY BE APPLIED SIMULTANEOUSLY AT OTHER JOINTS.



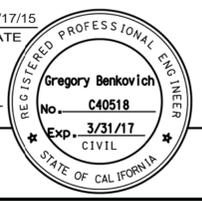
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SEAN SAMUEL DESIGN OVERSIGHT 08/24/15 SIGN OFF DATE	MARK DATE DESCRIPTIONS REVISIONS BY CHD	DESIGN BY G. BENKOVICH CHECKED V. LOPEZ DETAILS BY O. KURNOVSKAYA CHECKED G. BENKOVICH QUANTITIES BY M. MOORE CHECKED G. BENKOVICH	PREPARED FOR THE BAY AREA TOLL AUTHORITY	R. DONIKIAN PROJECT ENGINEER	BRIDGE NO POST MILES 2.0	BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT RIVETS REMOVAL PLAN AND DETAILS	SHEET S102
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 04 PROJECT NUMBER AND PHASE: 04-15000182	CONTRACT NO.: 04-01413	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES SHEET OF 94 124

11-SEP-2015 10:09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	ALA	80	2.0	95	124

08/24/15
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NOTES:

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LEGEND:

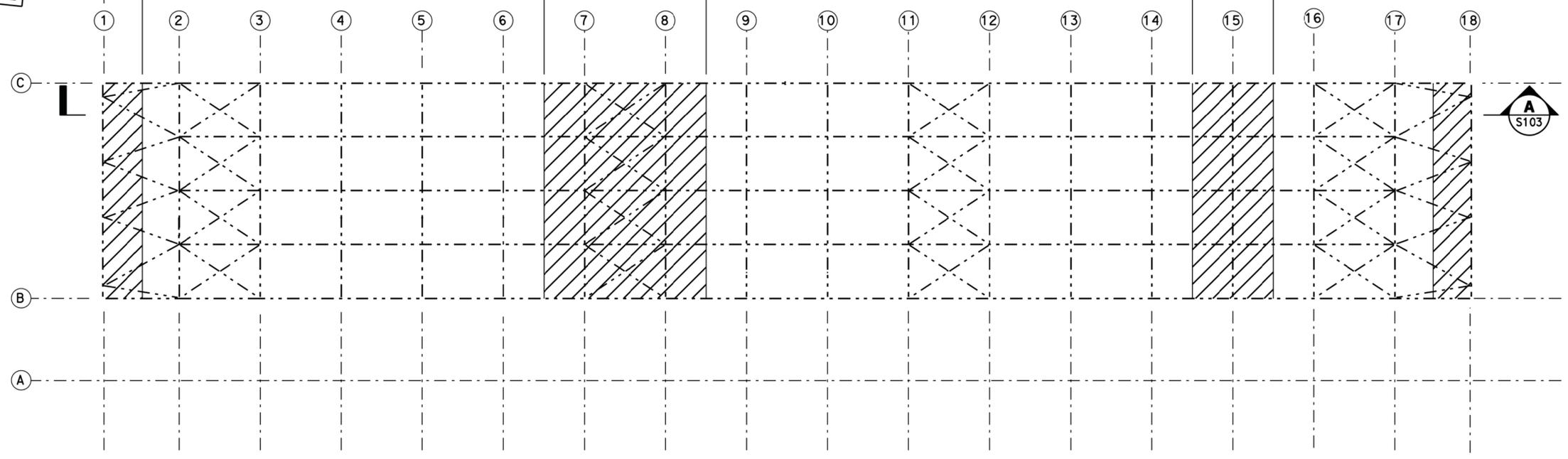
INDICATES NEGATIVE PRESSURE CONTAINMENT AREAS FOR PAINT REMOVAL/LEAD PAINT ABATEMENT OPERATION.



10'-0"± SUGGESTED APPROX ENCLOSURE AREA FOR PAINT REMOVAL AT GRID LINES ① & ⑱

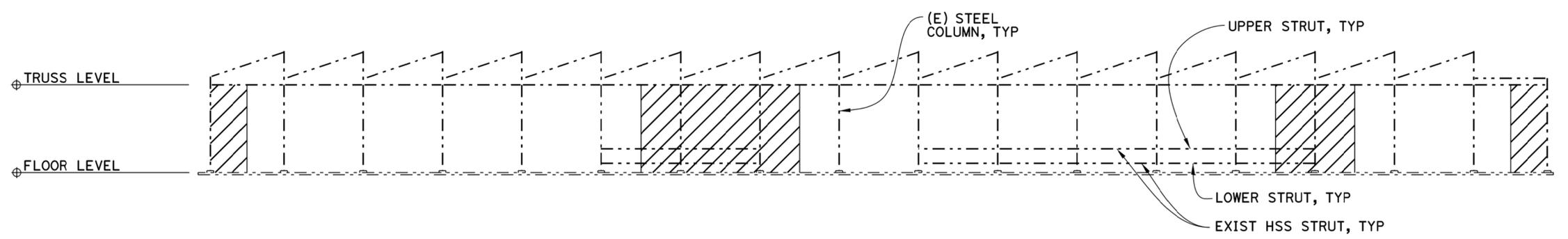
40'-0"± SUGGESTED APPROX ENCLOSURE AREA FOR PAINT REMOVAL AT BRACED BAYS, TYP

20'-0"± SUGGESTED APPROX ENCLOSURE AREA FOR PAINT REMOVAL AT TYPICAL FRAMES



TRUSS LOWER CHORD LEVEL

1/16" = 1'-0"



SECTION A
1/16" = 1'-0"

REPLACED PER ADDENDUM NO. 2 DATED SEPTEMBER 18, 2015

SEAN SAMUEL DESIGN OVERSIGHT 08/24/15 SIGN OFF DATE	MARK DATE DESCRIPTIONS REVISIONS BY CHD	DESIGN BY G. BENKOVICH CHECKED V. LOPEZ	DETAILS BY O. KURNOVSKAYA CHECKED G. BENKOVICH	QUANTITIES BY M. MOORE CHECKED G. BENKOVICH	PREPARED FOR THE BAY AREA TOLL AUTHORITY	R. DONIKIAN PROJECT ENGINEER	BRIDGE NO 2.0	BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT ENCLOSURE AREAS FOR PAINT REMOVAL	SHEET S103
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 04 PROJECT NUMBER AND PHASE: 04-15000182	CONTRACT NO.: 04-01413	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES SHEET 95 OF 124

11-SEP-2015 10:09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	ALA	80	2.0	96	124

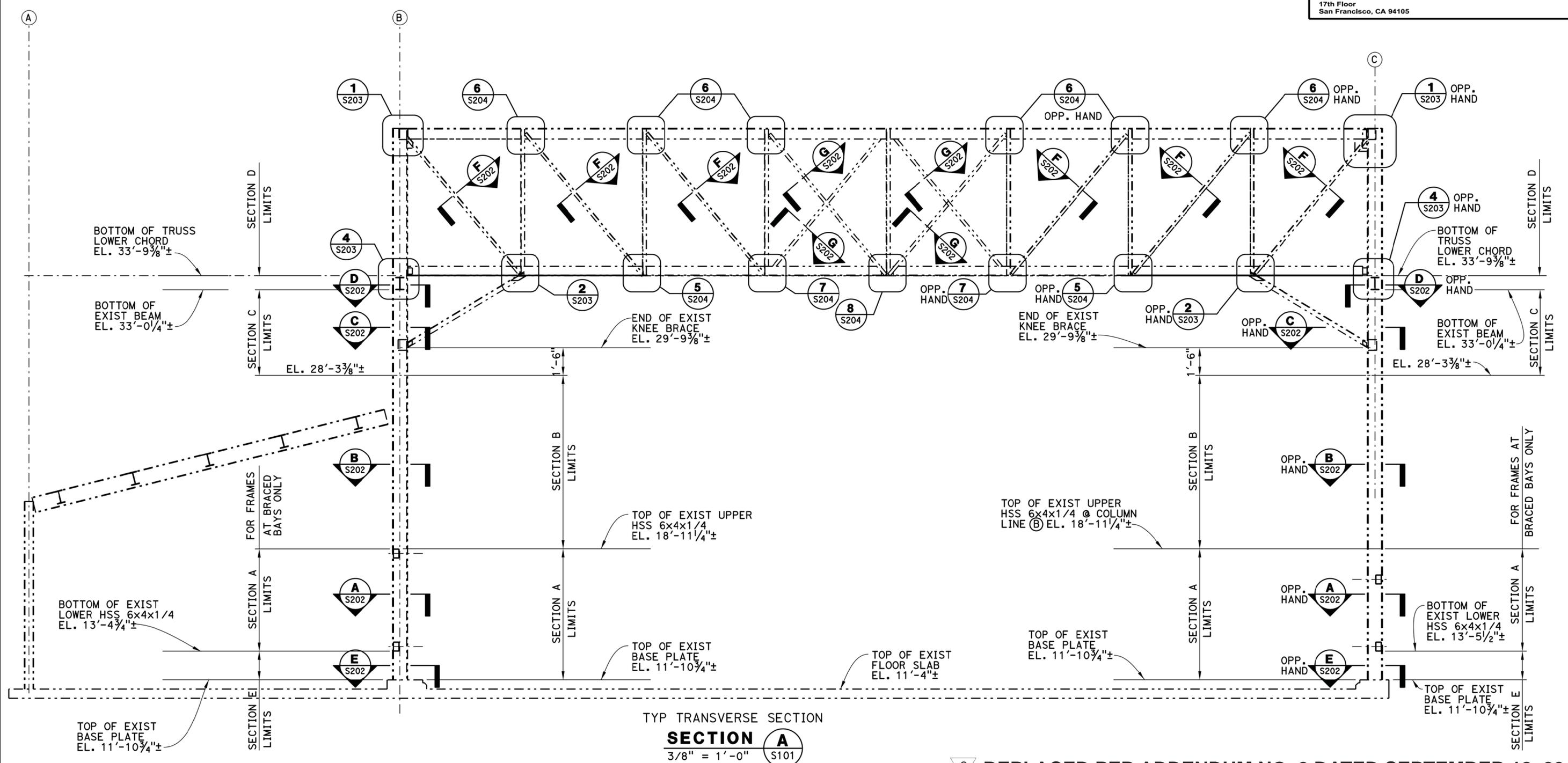
08/24/15
 DATE
 REGISTERED ENGINEER
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 No. C40518
 Exp. 3/31/17
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NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
2. SECTIONS F AND G APPLY TO ENTIRE TRUSS MEMBER LENGTH.
3. FOR PAINT REMOVAL DETAILS, SEE SHEET S202



TYP TRANSVERSE SECTION
SECTION A
 3/8" = 1'-0" S101

REPLACED PER ADDENDUM NO. 2 DATED SEPTEMBER 18, 2015

SEAN SAMUEL DESIGN OVERSIGHT 08/24/15 SIGN OFF DATE	MARK DATE DESCRIPTIONS REVISIONS	DESIGN BY G. BENKOVICH DETAILS BY O. KURNOVSKAYA QUANTITIES BY M. MOORE	CHECKED V. LOPEZ G. BENKOVICH G. BENKOVICH	PREPARED FOR THE BAY AREA TOLL AUTHORITY	R. DONIKIAN PROJECT ENGINEER	BRIDGE NO. POST MILES 2.0	BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT PAINT REMOVAL LIMITS	SHEET S201
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 04 PROJECT NUMBER AND PHASE: 04-15000182	CONTRACT NO.: 04-01413	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES SHEET 96 OF 124

11-SEP-2015 10:10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	ALA	80	2.0	97	124

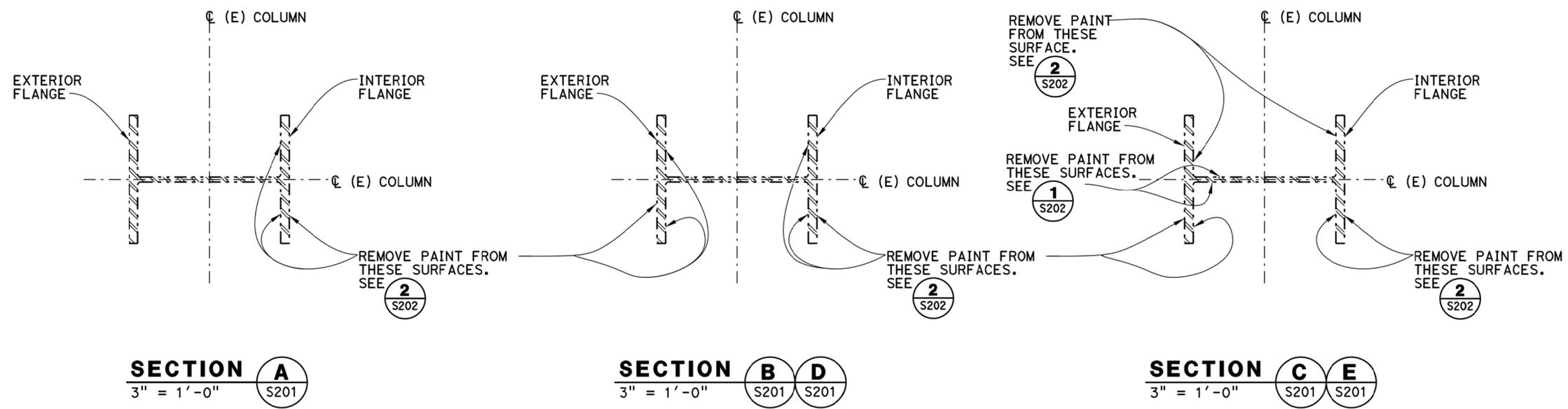
Gregory Benkovich 08/17/15
REGISTERED ENGINEER DATE

08/24/15
PLANS APPROVAL DATE

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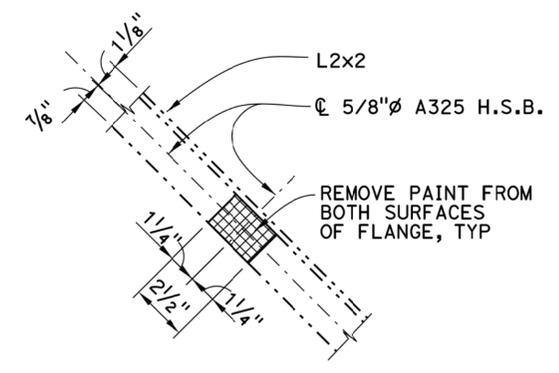
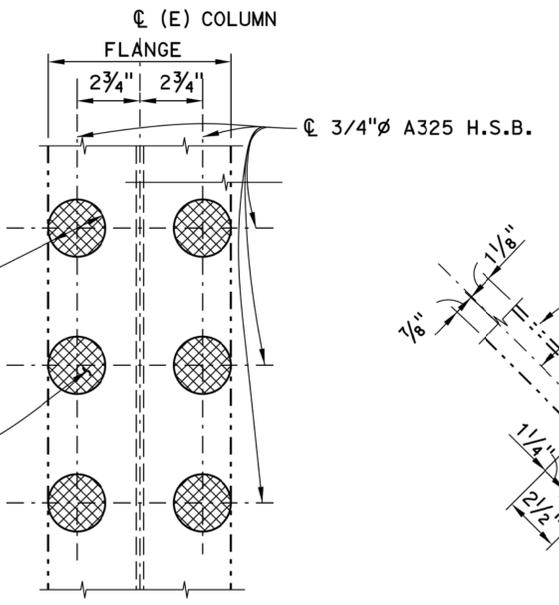
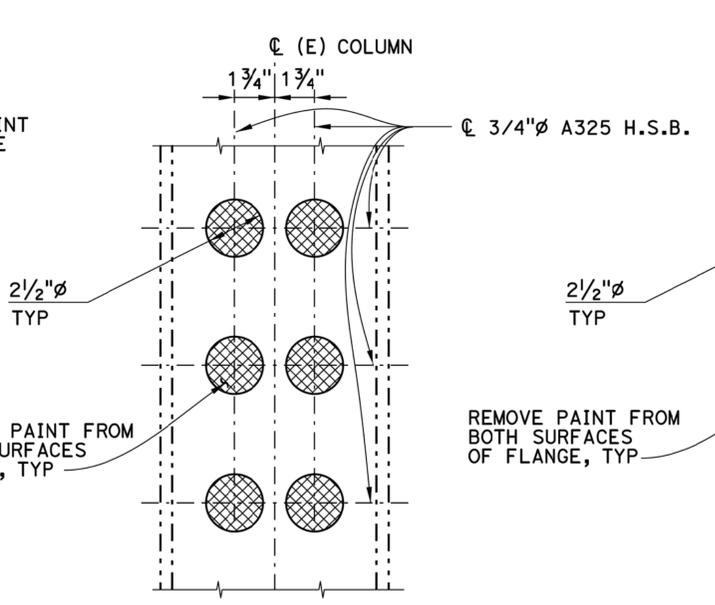
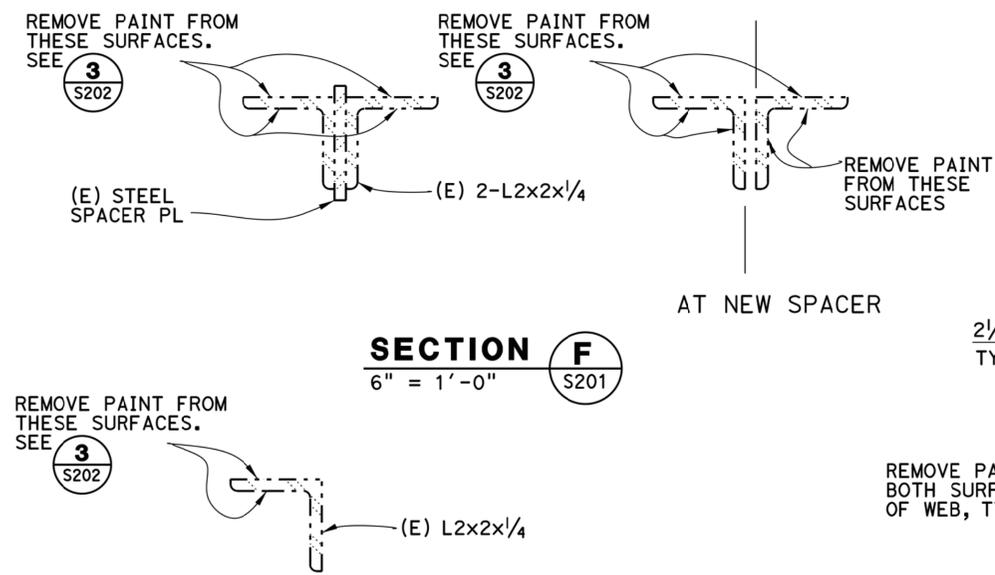


NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

LEGEND:

INDICATE PAINT REMOVAL PAY LIMITS



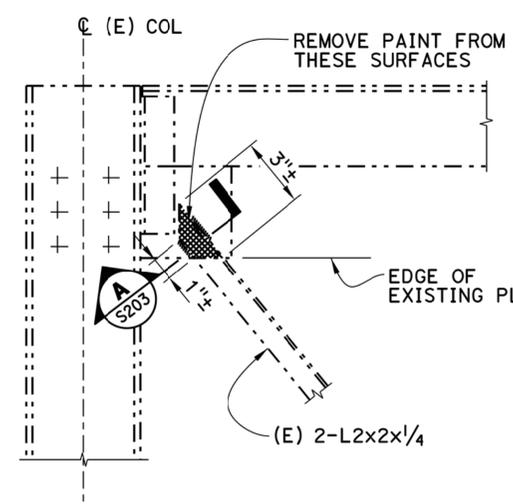
2 REPLACED PER ADDENDUM NO. 2 DATED SEPTEMBER 18, 2015

SEAN SAMUEL DESIGN OVERSIGHT 08/24/15 SIGN OFF DATE	MARK DATE DESCRIPTIONS REVISIONS BY CHD	DESIGN BY G. BENKOVICH CHECKED V. LOPEZ	BY O. KURNOVSKAYA CHECKED G. BENKOVICH	QUANTITIES BY M. MOORE CHECKED G. BENKOVICH	PREPARED FOR THE BAY AREA TOLL AUTHORITY	R. DONIKIAN PROJECT ENGINEER	BRIDGE NO. POST MILES 2.0	BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT PAINT REMOVAL SECTIONS	SHEET S202
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 04 PROJECT NUMBER AND PHASE: 04-15000182	CONTRACT NO.: 04-01413	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES SHEET OF 97 124

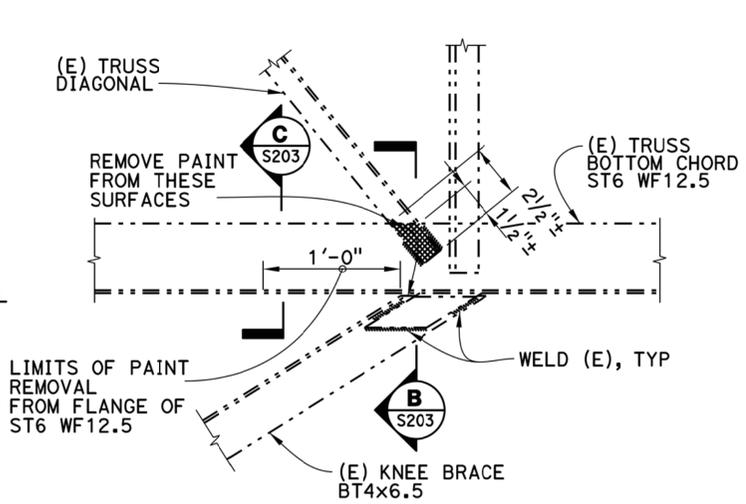
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	ALA	80	2.0	98	124

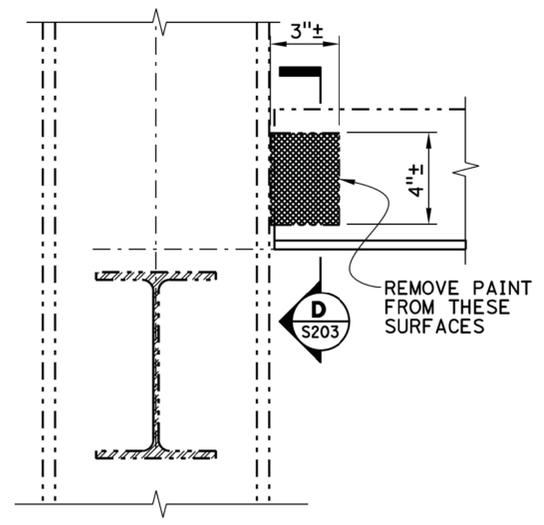
08/24/15
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DETAIL 1
1/2" = 1'-0" S201



DETAIL 2
1/2" = 1'-0" S201

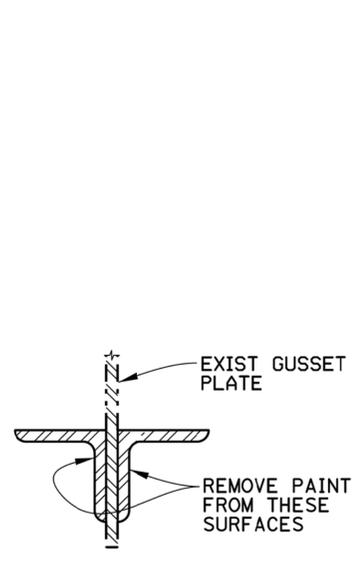


DETAIL 4
3" = 1'-0" S201

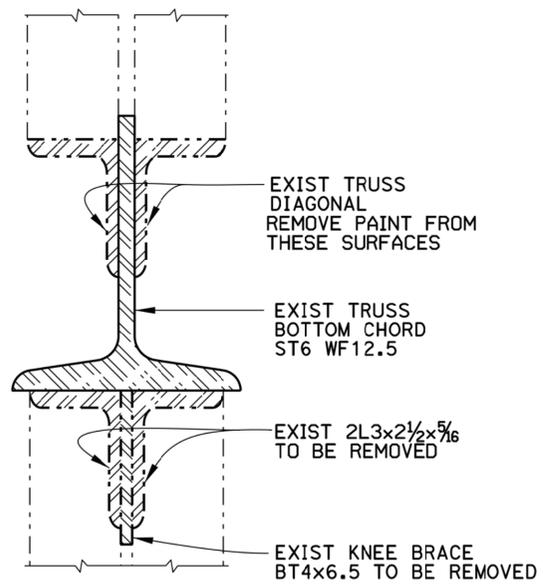
- NOTES:**
- THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

LEGEND:

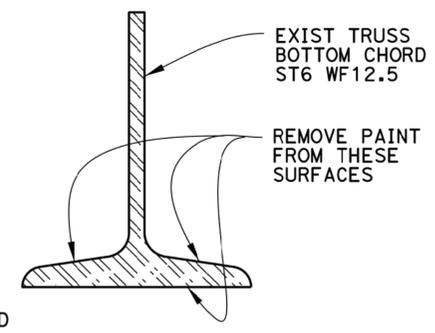
LIMITS OF PAINT REMOVAL



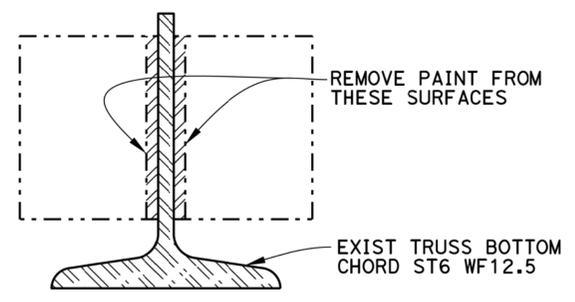
SECTION A
6" = 1'-0" S203



SECTION B
6" = 1'-0" S203



SECTION C
6" = 1'-0" S203



SECTION D
6" = 1'-0" S203

2 REPLACED PER ADDENDUM NO. 2 DATED SEPTEMBER 18, 2015

SEAN SAMUEL DESIGN OVERSIGHT 08/24/15 SIGN OFF DATE	MARK DATE DESCRIPTIONS REVISIONS BY CHD	DESIGN BY G. BENKOVICH CHECKED V. LOPEZ	BY O. KURNOVSKAYA CHECKED G. BENKOVICH	QUANTITIES BY M. MOORE CHECKED G. BENKOVICH	PREPARED FOR THE BAY AREA TOLL AUTHORITY	R. DONIKIAN PROJECT ENGINEER	BRIDGE NO 2.0	BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT PAINT REMOVAL SECTIONS AND DETAILS NO.1	SHEET S203
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 04 PROJECT NUMBER AND PHASE: 04-15000182	CONTRACT NO.: 04-01413	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES SHEET 98 OF 124

11-SEP-2015 10:10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	ALA	80	2.0	99	124

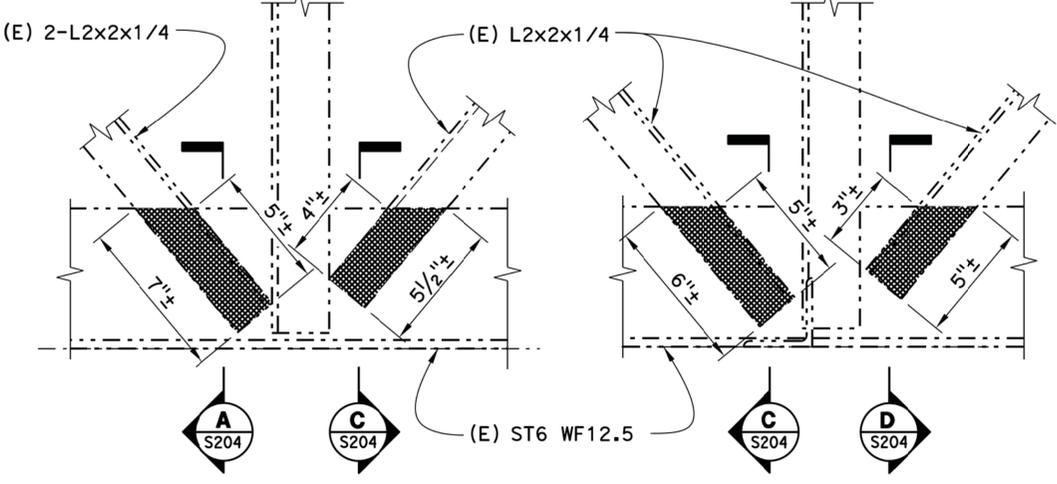
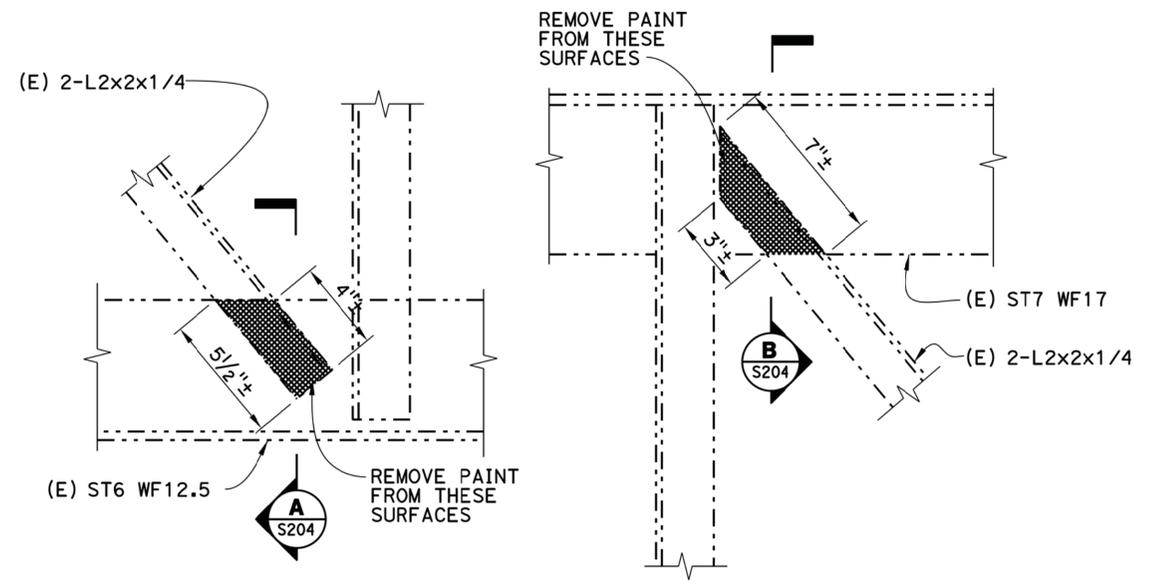
08/24/15
 REGISTERED ENGINEER DATE
 08/17/15
 DATE
 Gregory Benkovich
 No. C40518
 Exp. 3/31/17
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 STATE OF CALIFORNIA

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- NOTES:**
- THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

LEGEND:

 LIMITS OF PAINT REMOVAL

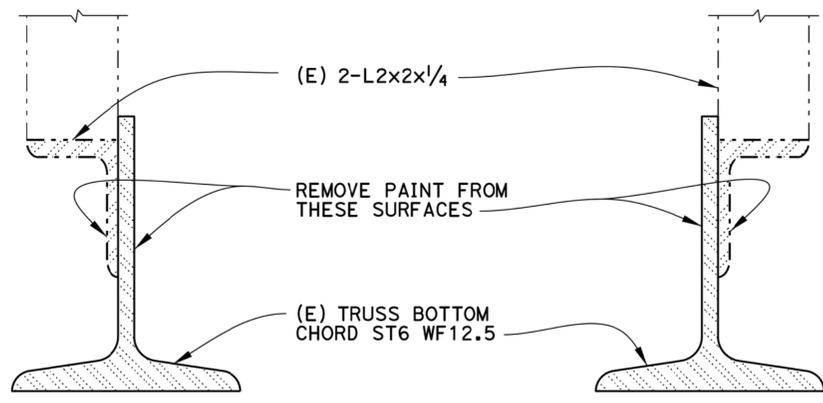
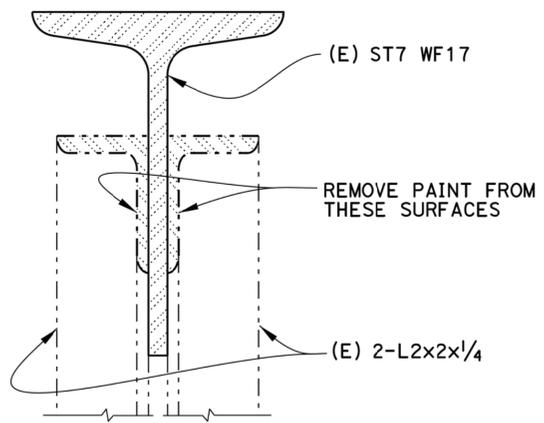
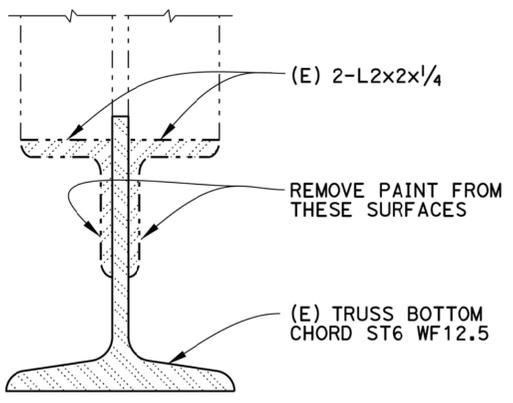


DETAIL 5
3" = 1'-0" S201

DETAIL 6
3" = 1'-0" S201

DETAIL 7
3" = 1'-0" S201

DETAIL 8
3" = 1'-0" S201



SECTION A
6" = 1'-0" S204

SECTION B
6" = 1'-0" S204

SECTION C
6" = 1'-0" S204

SECTION D
6" = 1'-0" S204

2 REPLACED PER ADDENDUM NO. 2 DATED SEPTEMBER 18, 2015

SEAN SAMUEL DESIGN OVERSIGHT 08/24/15 SIGN OFF DATE	MARK DATE DESCRIPTIONS REVISIONS BY CHD	DESIGN BY G. BENKOVICH CHECKED V. LOPEZ	DETAILS BY O. KURNOVSKAYA CHECKED G. BENKOVICH	QUANTITIES BY M. MOORE CHECKED G. BENKOVICH	PREPARED FOR THE BAY AREA TOLL AUTHORITY	R. DONIKIAN PROJECT ENGINEER	BRIDGE NO. POST MILES 2.0	BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT PAINT REMOVAL SECTIONS AND DETAILS NO.2	SHEET S204
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 04 PROJECT NUMBER AND PHASE: 04-15000182	CONTRACT NO.: 04-01413	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES SHEET OF 99 124

11-SEP-2015 10:10

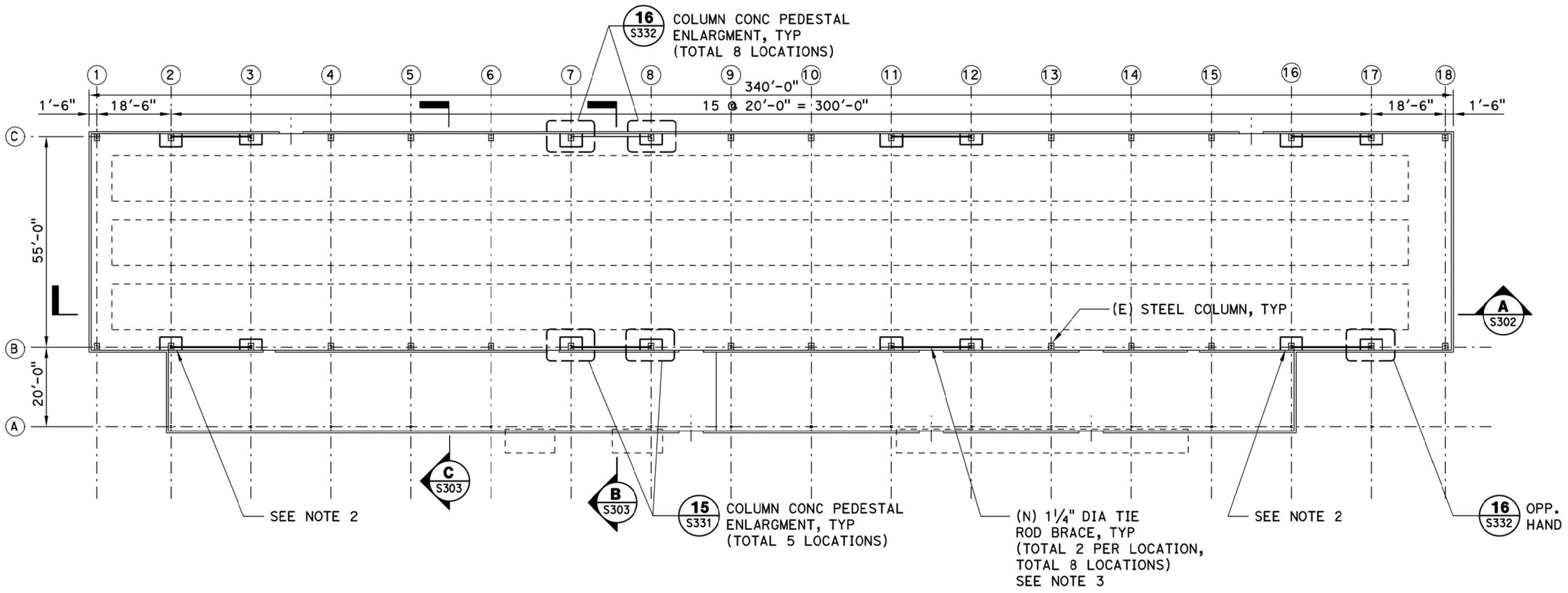
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	ALA	80	2.0	100	124

08/24/15
 PLANS APPROVAL DATE

08/17/15
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- NOTES:**
1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
 2. AT GRID LINES 2 AND 16 ALONG COLUMN LINE B, WITH PARTIAL CURB CONDITIONS, DETAILS 15 AND 16 SHALL BE APPLIED IN COMBINATION.
 3. COLUMN CONCRETE PEDESTAL SHALL BE ENLARGED PRIOR TO REPLACEMENT OF TIE RODS. THE CONCRETE SHALL REACH 70% OF ITS DESIGN COMPRESSIVE STRENGTH PRIOR TO TIE ROD REPLACEMENT.

FLOOR LEVEL PLAN
 $\frac{1}{16}'' = 1'-0''$

REPLACED PER ADDENDUM NO. 2 DATED SEPTEMBER 18, 2015

SEAN SAMUEL DESIGN OVERSIGHT 08/24/15 SIGN OFF DATE	MARK DATE DESCRIPTIONS REVISIONS BY CHD	DESIGN BY G. BENKOVICH CHECKED V. LOPEZ	PREPARED FOR THE BAY AREA TOLL AUTHORITY	R. DONIKIAN PROJECT ENGINEER	BRIDGE NO POST MILES 2.0	BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT FLOOR LEVEL PLAN	SHEET S301
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)		QUANTITIES BY M. MOORE CHECKED G. BENKOVICH	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 04 PROJECT NUMBER AND PHASE: 04-15000182	CONTRACT NO.: 04-01413	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES SHEET 100 OF 124

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	ALA	80	2.0	101	124

Gregory Benkovich 08/17/15
 REGISTERED ENGINEER DATE

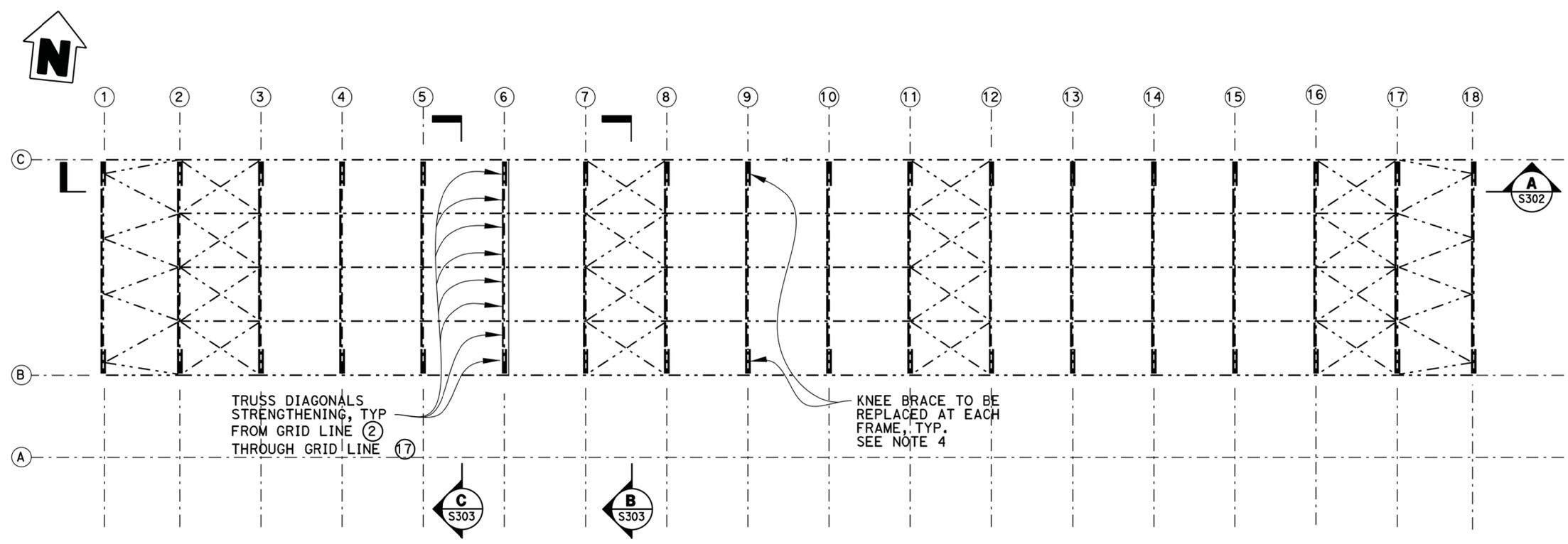
08/24/15
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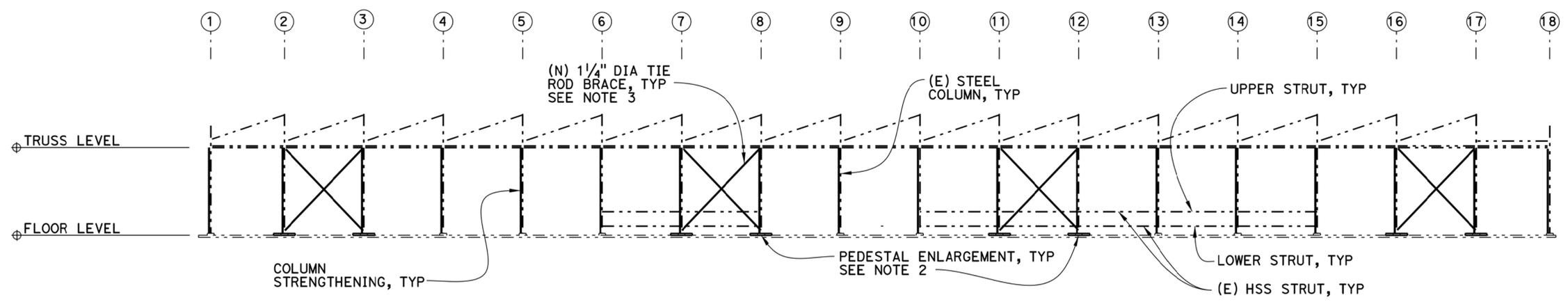
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REGISTERED PROFESSIONAL ENGINEER
 Gregory Benkovich
 No. C40518
 Exp. 3/31/17
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- NOTES:**
1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
 2. FOR PEDESTAL ENLARGEMENT DETAIL, SEE SHEETS S331 AND S332.
 3. NEW 1 1/4" Ø TIE ROD BRACE SHALL BE ASTM A572 GRADE 60 BAR WITH MINIMUM fy = 60 ksi AND NOT TO EXCEED 66 ksi (TOTAL 16). EXISTING TIE RODS SHALL BE REPLACED WITH NEW ONES ONE AT A TIME PER SINGLE BRACED BAY ALONG EACH COLUMN LINE. THIS MAY BE PERFORMED SIMULTANEOUSLY AT BOTH COLUMN LINES B AND C. SEE NOTE 3 ON S301.
 4. KNEE BRACES MAY BE REPLACED IN ANY SEQUENCE.



TRUSS LOWER CHORD LEVEL
 1/16" = 1'-0"



SECTION A
 1/16" = 1'-0" S302 S301

2 REPLACED PER ADDENDUM NO. 2 DATED SEPTEMBER 18, 2015

SEAN SAMUEL DESIGN OVERSIGHT 08/24/15 SIGN OFF DATE	MARK DATE DESCRIPTIONS REVISIONS BY CHD	DESIGN BY G. BENKOVICH CHECKED V. LOPEZ	DETAILS BY O. KURNOVSKAYA CHECKED G. BENKOVICH	QUANTITIES BY M. MOORE CHECKED G. BENKOVICH	PREPARED FOR THE BAY AREA TOLL AUTHORITY	R. DONIKIAN PROJECT ENGINEER	BRIDGE NO 2.0	BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT TRUSS LEVEL PLAN AND LONGITUDINAL SECTION	SHEET S302		
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 04 PROJECT NUMBER AND PHASE: 04-15000182	CONTRACT NO.: 04-01413	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 101	OF 124

11-SEP-2015 10:10

DIST	COUNTY	ROUTE	POST MILES	SHEET	TOTAL
04	ALA	80	TOTAL PROJECT 2.0	No 102	SHEETS 124

08/17/15
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 REGISTERED ENGINEER
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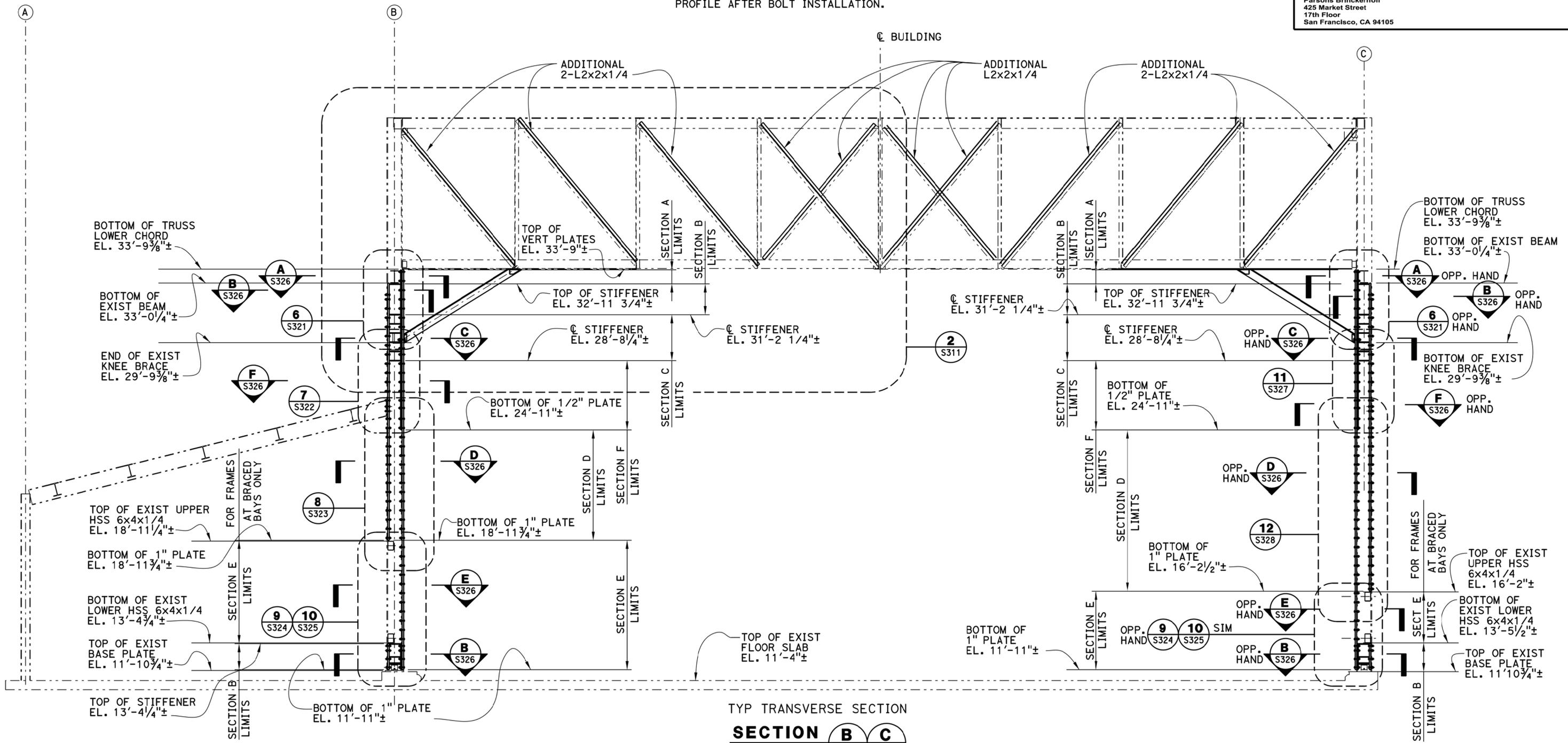
08/24/15
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NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
2. WHERE REQUIRED FOR BOLT INSTALLATION ON COLUMN FLANGES, THE CONTRACTOR SHALL REMOVE PORTION OF THE EXISTING CONCRETE CURB BY CHIPPING TO PRESERVE EXISTING REINFORCING BARS AND RESTORE CONCRETE CURB TO MATCH ORIGINAL SURFACE PROFILE AFTER BOLT INSTALLATION.
3. FOR NON-TYPICAL BOLT INSTALLATION OR CONNECTION AT WINDOW AND SIDING FRAMING ATTACHMENTS SEE SHEET S329.



TYP TRANSVERSE SECTION
SECTION B C
 $\frac{3}{8}'' = 1'-0''$
 S302 S302

REPLACED PER ADDENDUM NO. 2 DATED SEPTEMBER 18, 2015

SEAN SAMUEL DESIGN OVERSIGHT 08/24/15 SIGN OFF DATE	MARK DATE DESCRIPTIONS REVISIONS BY CHD	DESIGN BY G. BENKOVICH CHECKED V. LOPEZ DETAILS BY O. KURNOVSKAYA CHECKED G. BENKOVICH QUANTITIES BY M. MOORE CHECKED G. BENKOVICH	PREPARED FOR THE BAY AREA TOLL AUTHORITY	R. DONIKIAN PROJECT ENGINEER	BRIDGE NO. POST MILES 2.0	BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT TYPICAL TRANSVERSE SECTION	SHEET S303
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 04 PROJECT NUMBER AND PHASE: 04-15000182	CONTRACT NO.: 04-01413	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES SHEET 102 OF 124

11-SEP-2015 10:10

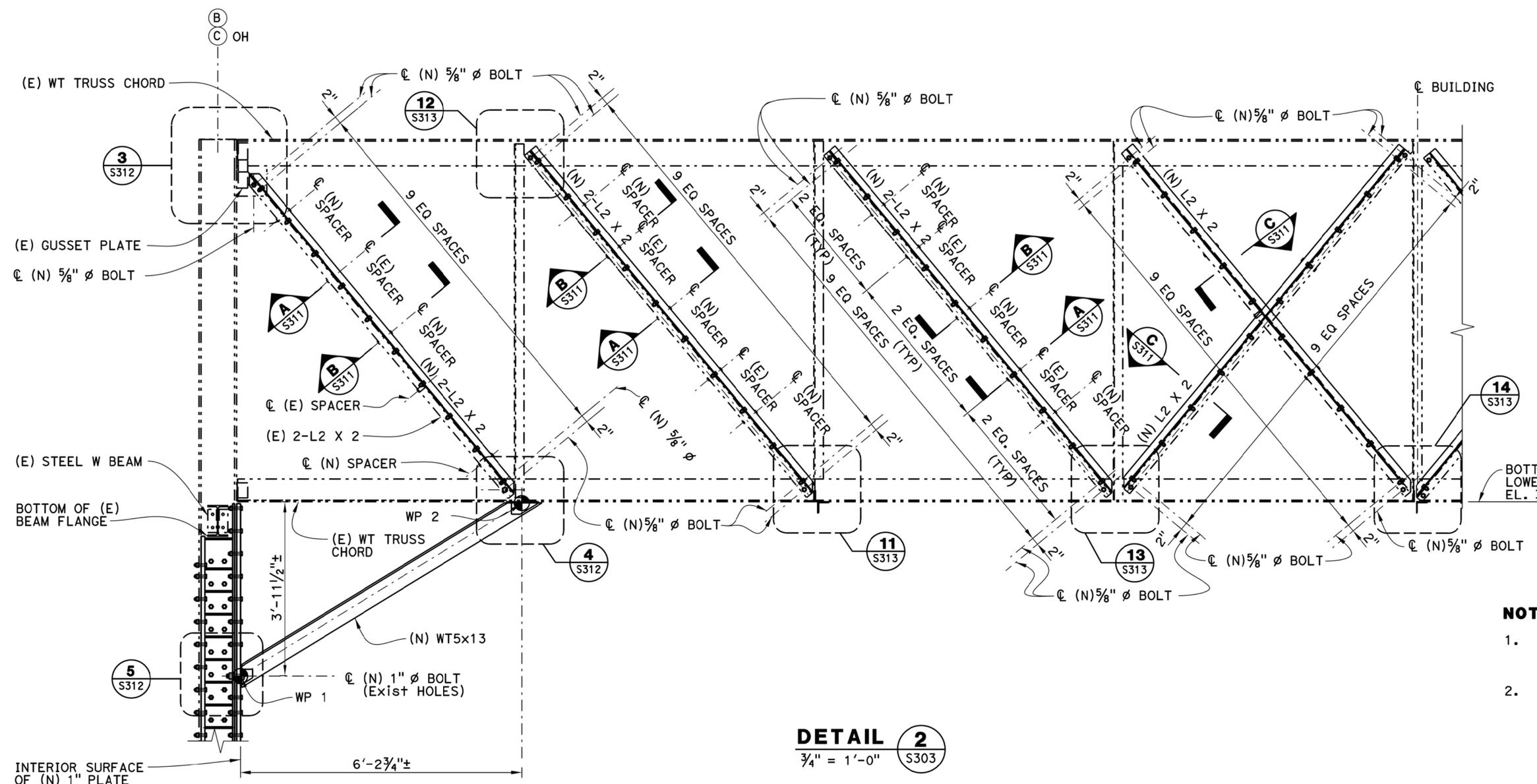
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	ALA	80	2.0	103	124

08/24/15
 PLANS APPROVAL DATE

08/17/15
 DATE

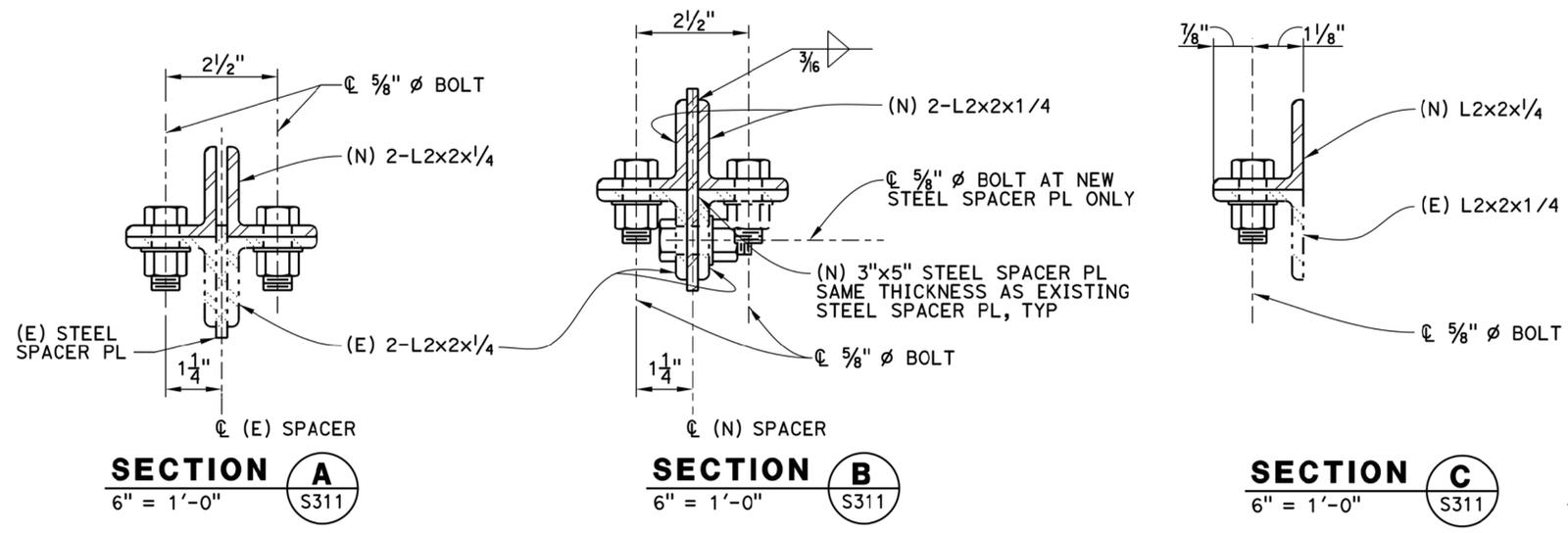
REGISTERED PROFESSIONAL ENGINEER
 Gregory Benkovich
 No. C40518
 Exp. 3/31/17
 CIVIL
 STATE OF CALIFORNIA

Parsons Brinckerhoff
 425 Market Street
 17th Floor
 San Francisco, CA 94105



- NOTES:**
1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
 2. DETAIL 2 PERTAINS TO PORTION OF BUILDING MIRRORED ABOUT CENTERLINE.

DETAIL 2
 $\frac{3}{4}'' = 1'-0''$
 S303



REPLACED PER ADDENDUM NO. 2 DATED SEPTEMBER 18, 2015

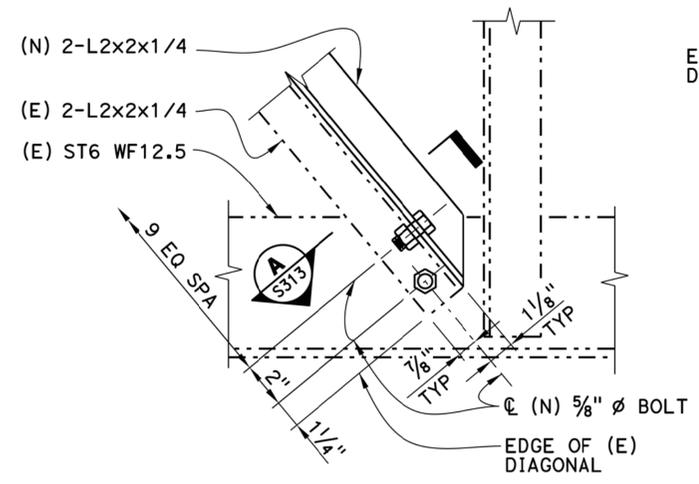
SEAN SAMUEL DESIGN OVERSIGHT 08/24/15 SIGN OFF DATE	MARK DATE DESCRIPTIONS REVISIONS BY CHD	DESIGN BY G. BENKOVICH CHECKED V. LOPEZ	DETAILS BY O. KURNOVSKAYA CHECKED G. BENKOVICH	QUANTITIES BY M. MOORE CHECKED G. BENKOVICH	PREPARED FOR THE BAY AREA TOLL AUTHORITY	R. DONIKIAN PROJECT ENGINEER	BRIDGE NO POST MILES 2.0	BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT TRUSS SECTIONS AND DETAILS NO. 1	SHEET S311
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 04 PROJECT NUMBER AND PHASE: 04-15000182	CONTRACT NO.: 04-01413	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES SHEET 103 OF 124

11-SEP-2015 10:11

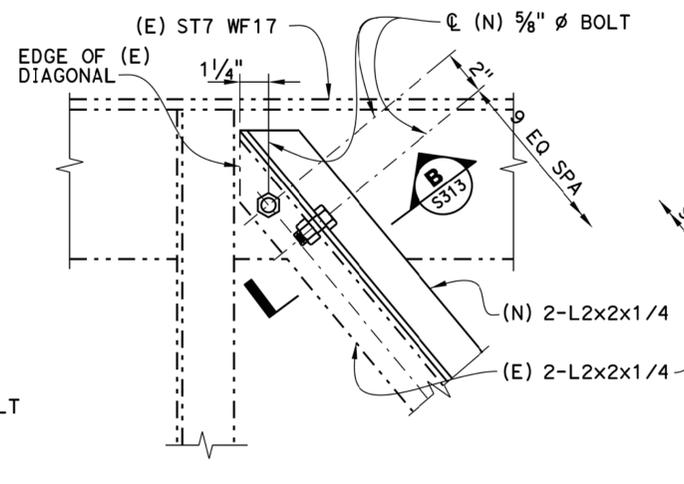
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	ALA	80	2.0	105	124

08/17/15
 DATE
 REGISTERED ENGINEER
 Gregory Benkovich
 No. C40518
 Exp. 3/31/17
 CIVIL
 STATE OF CALIFORNIA

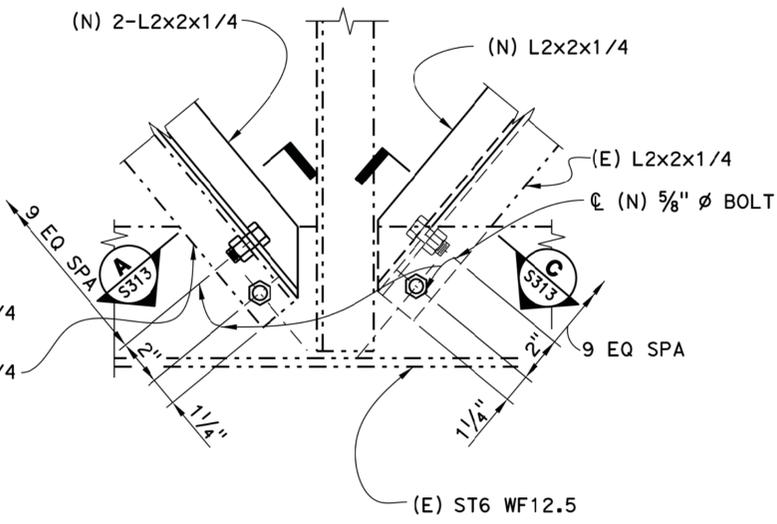
08/24/15
 PLANS APPROVAL DATE
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DETAIL 11
3" = 1'-0" S311

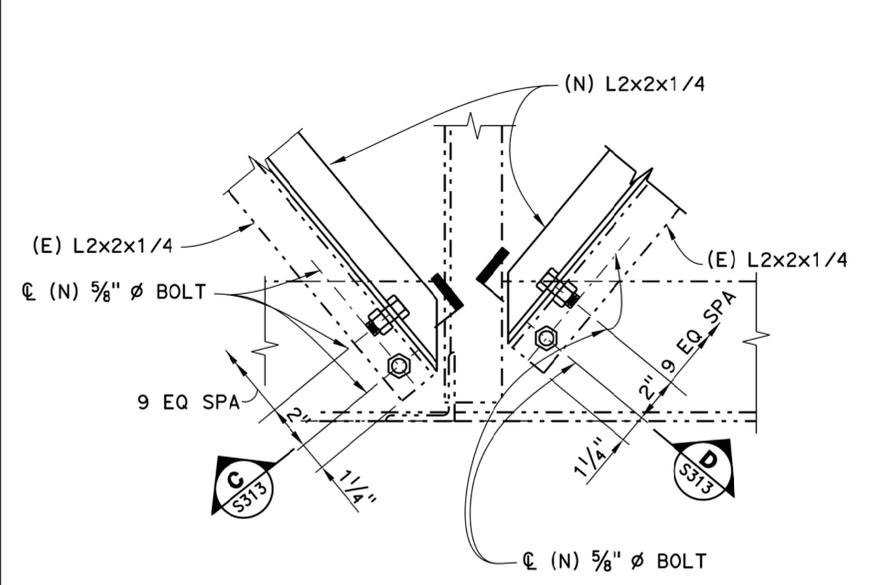


DETAIL 12
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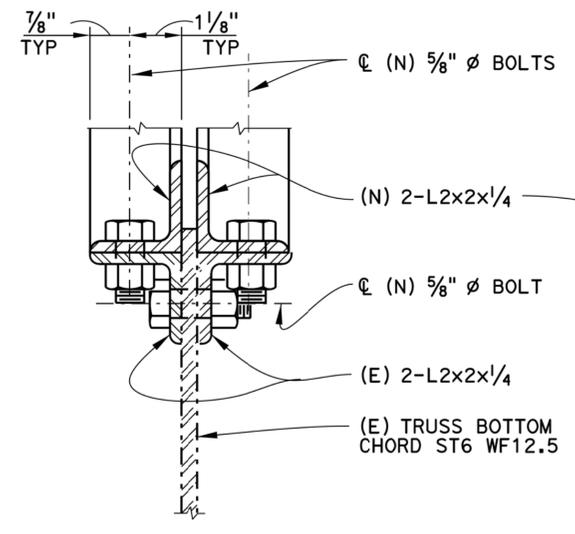


DETAIL 13
3" = 1'-0" S311

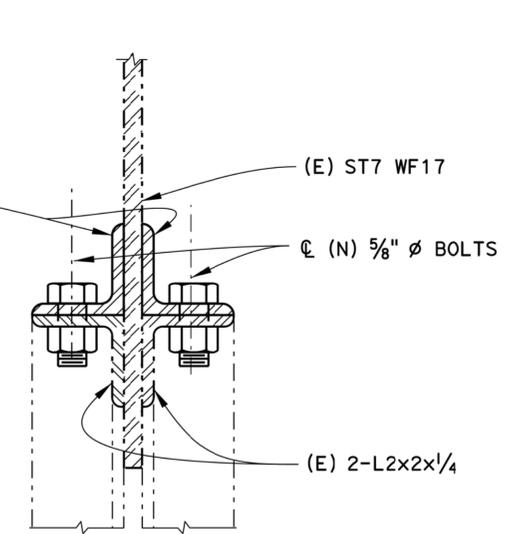
- NOTES:**
- THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



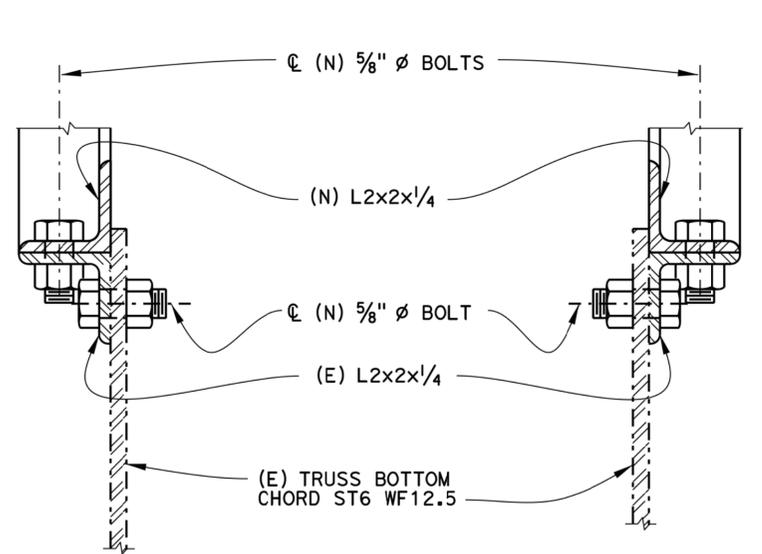
DETAIL 14
3" = 1'-0" S311



SECTION A
6" = 1'-0" S313



SECTION B
6" = 1'-0" S313



SECTION C
6" = 1'-0" S313

SECTION D
6" = 1'-0" S313

2 REPLACED PER ADDENDUM NO. 2 DATED SEPTEMBER 18, 2015

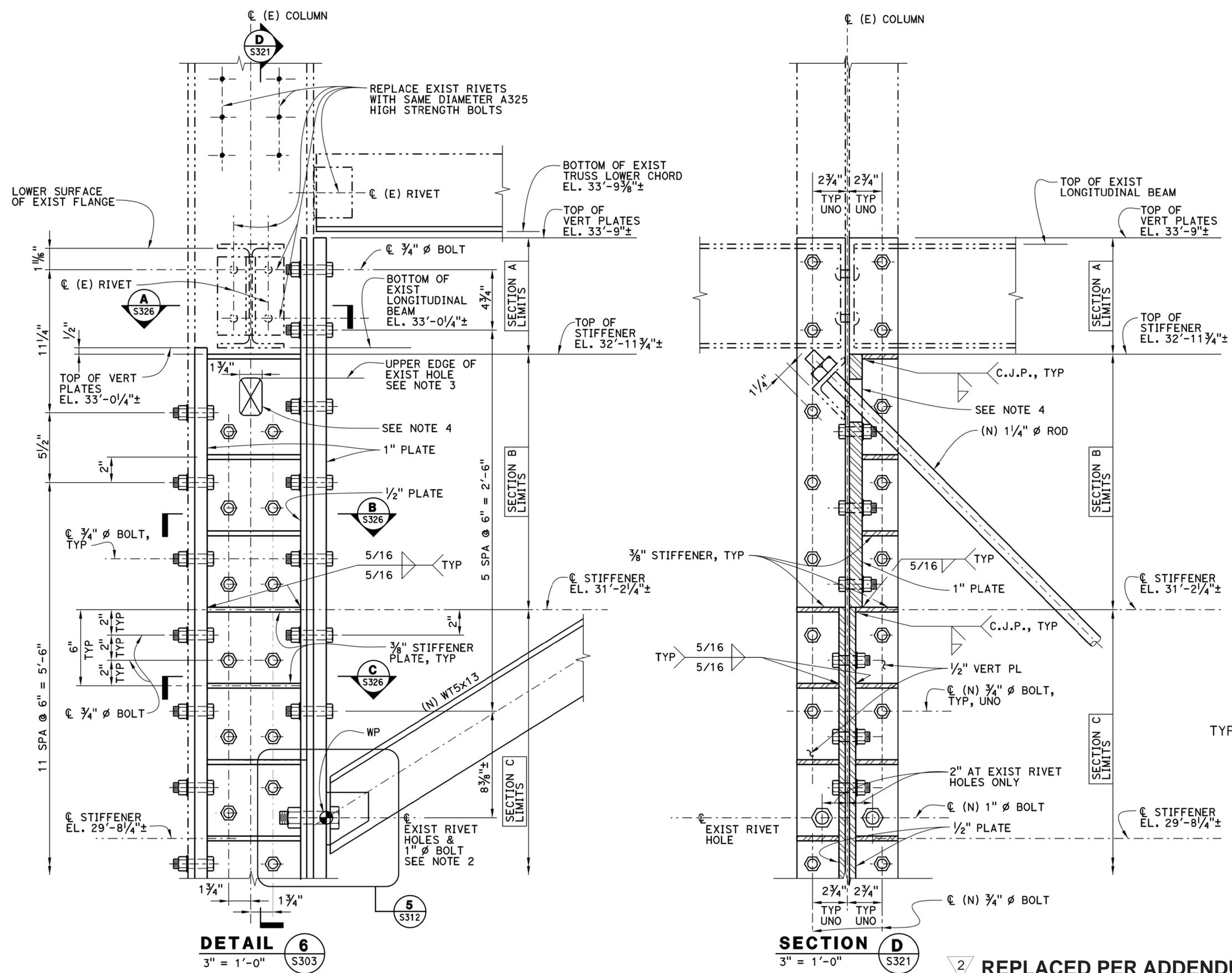
SEAN SAMUEL DESIGN OVERSIGHT 08/24/15 SIGN OFF DATE	MARK DATE DESCRIPTIONS REVISIONS BY CHD	DESIGN BY G. BENKOVICH CHECKED V. LOPEZ	DETAILS BY O. KURNOVSKAYA CHECKED G. BENKOVICH	QUANTITIES BY M. MOORE CHECKED G. BENKOVICH	PREPARED FOR THE BAY AREA TOLL AUTHORITY	R. DONIKIAN PROJECT ENGINEER	BRIDGE NO BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT	SHEET S313
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 04 PROJECT NUMBER AND PHASE: 04-15000182	CONTRACT NO.: 04-01413	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET OF 105 124	

11-SEP-2015 10:10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	ALA	80	2.0	106	124

08/24/15
 APPROVAL DATE
 DATE
 08/17/15
 DATE
 REGISTERED ENGINEER
 REGISTERED PROFESSIONAL ENGINEER
 No. C40518
 Exp. 3/31/17
 CIVIL
 STATE OF CALIFORNIA

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 San Francisco, CA 94105



REPLACED PER ADDENDUM NO. 2 DATED SEPTEMBER 18, 2015

SEAN SAMUEL DESIGN OVERSIGHT 08/24/15 SIGN OFF DATE	MARK DATE DESCRIPTIONS REVISIONS BY CHD	DESIGN BY G. BENKOVICH CHECKED V. LOPEZ	DETAILS BY O. KURNOVSKAYA CHECKED G. BENKOVICH	QUANTITIES BY M. MOORE CHECKED G. BENKOVICH	PREPARED FOR THE BAY AREA TOLL AUTHORITY	R. DONIKIAN PROJECT ENGINEER	BRIDGE NO POST MILES 2.0	BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT COLUMN SECTIONS AND DETAILS NO. 1	SHEET S321
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 04 PROJECT NUMBER AND PHASE: 04-15000182	CONTRACT NO.: 04-01413	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES SHEET 106 OF 124

11-SEP-2015 10:10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	ALA	80	2.0	107	124

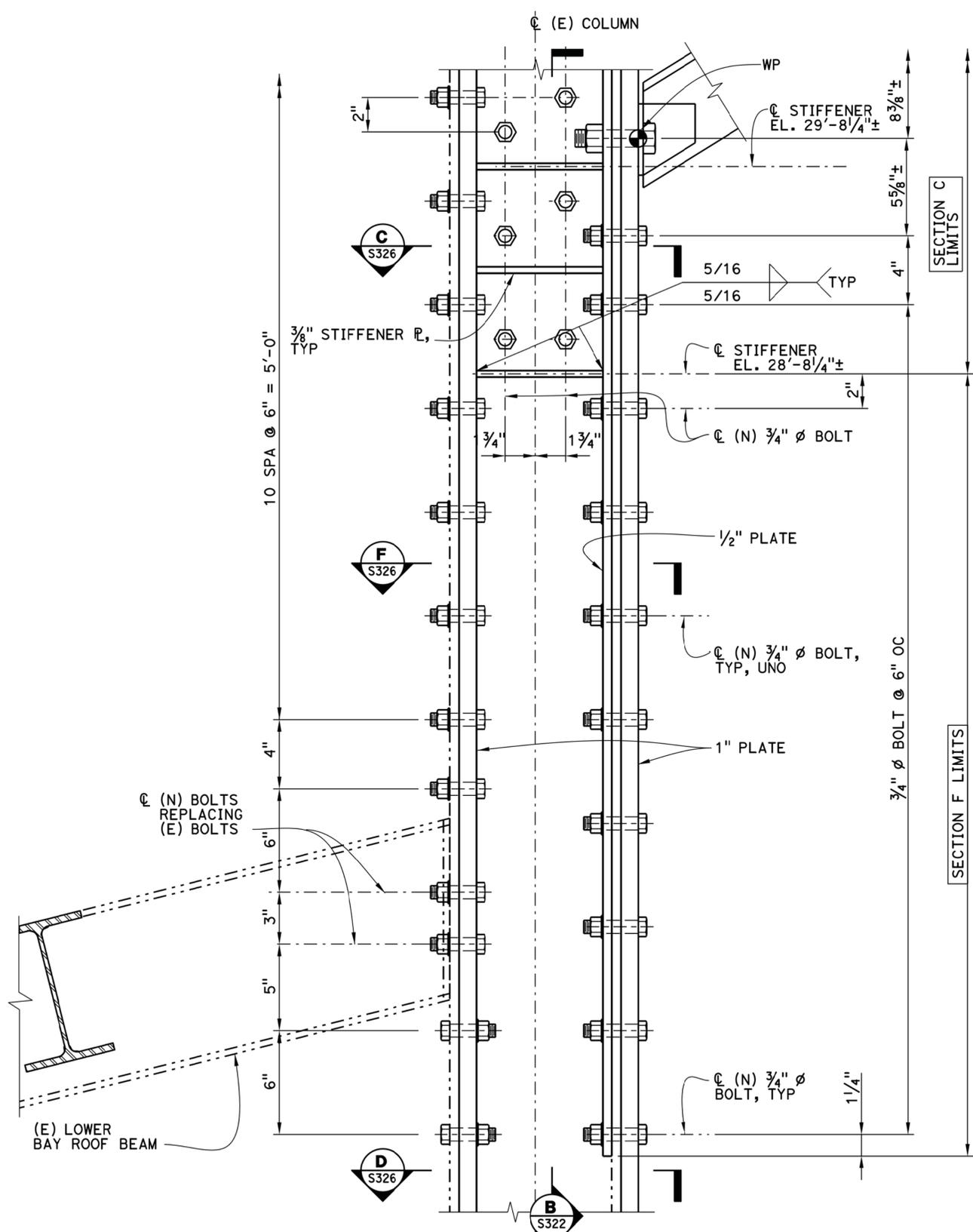
08/17/15 DATE
 08/24/15 PLANS APPROVAL DATE
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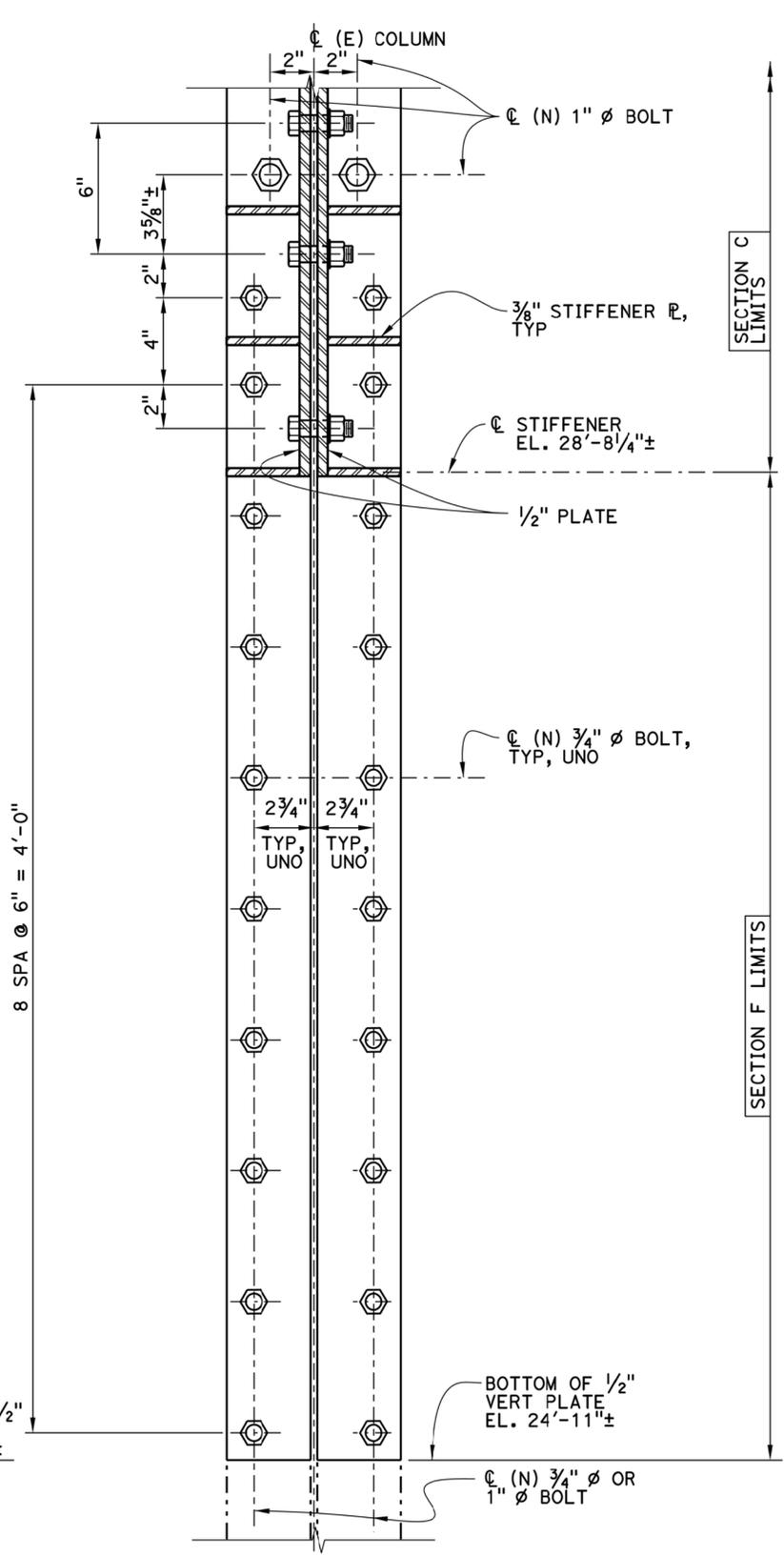


NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
2. FOR NON-TYPICAL BOLT INSTALLATION OR CONNECTION AT WINDOW AND SIDING FRAMING ATTACHMENTS SEE SHEET S329.



DETAIL 7
3" = 1'-0" S303



SECTION B
3" = 1'-0" S322

2 REPLACED PER ADDENDUM NO. 2 DATED SEPTEMBER 18, 2015

SEAN SAMUEL	DESIGN OVERSIGHT	08/24/15	SIGN OFF DATE
-------------	------------------	----------	---------------

MARK	DATE	DESCRIPTIONS	BY	CHD

DESIGN	BY G. BENKOVICH	CHECKED V. LOPEZ
DETAILS	BY O. KURNOVSKAYA	CHECKED G. BENKOVICH
QUANTITIES	BY M. MOORE	CHECKED G. BENKOVICH

PREPARED FOR THE
BAY AREA TOLL AUTHORITY

R. DONIKIAN	PROJECT ENGINEER
-------------	------------------

BRIDGE NO	2.0
POST MILES	2.0

BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT
COLUMN SECTIONS AND DETAILS NO. 2

SHEET	S322
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DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0	1	2	3
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UNIT: 04
PROJECT NUMBER AND PHASE: 04-15000182

CONTRACT NO.: 04-01413

DISREGARD PRINTS BEARING EARLIER REVISION DATES

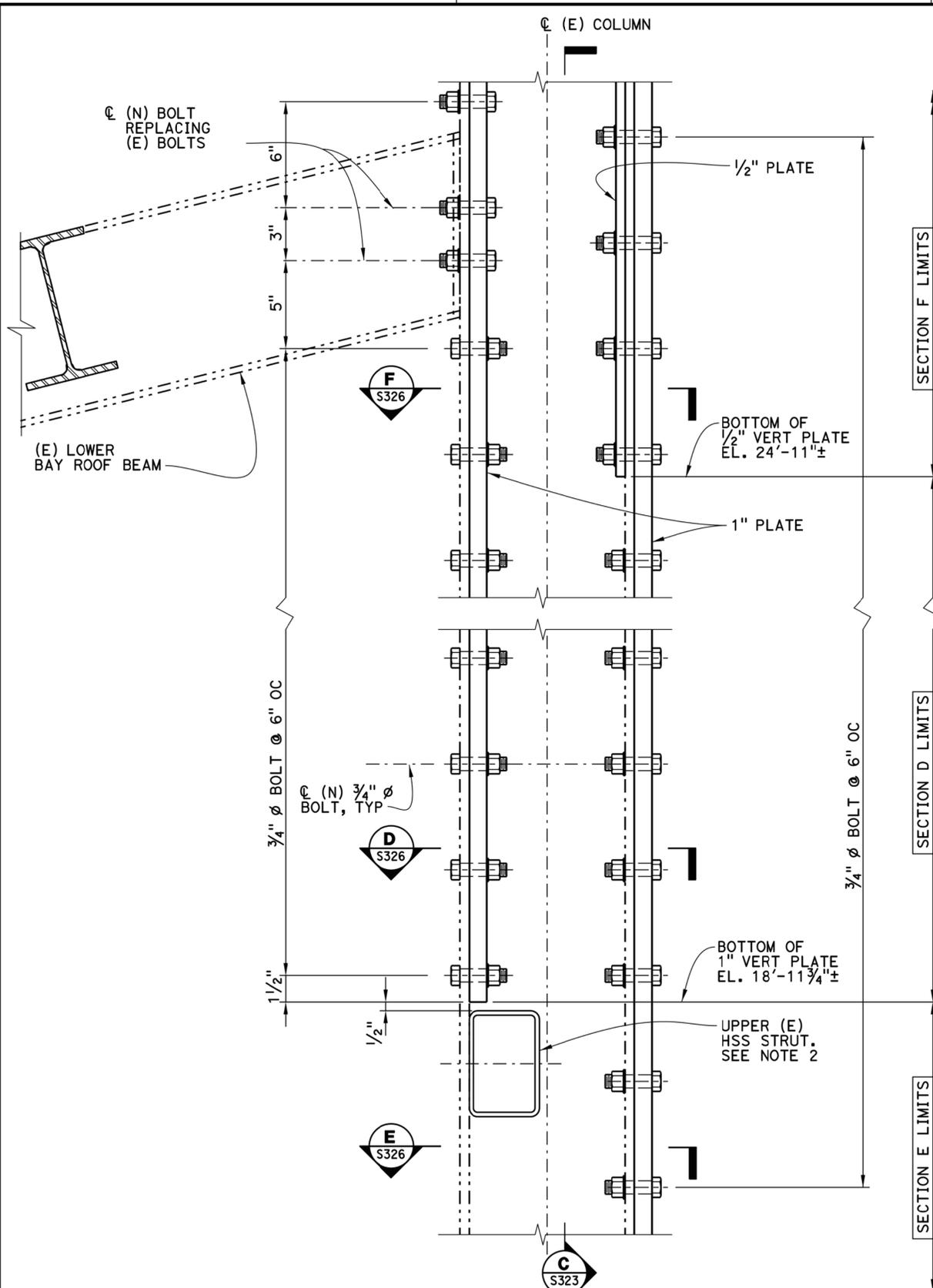
REVISION DATES	
SHEET	107
OF	124

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	ALA	80	2.0	108	124

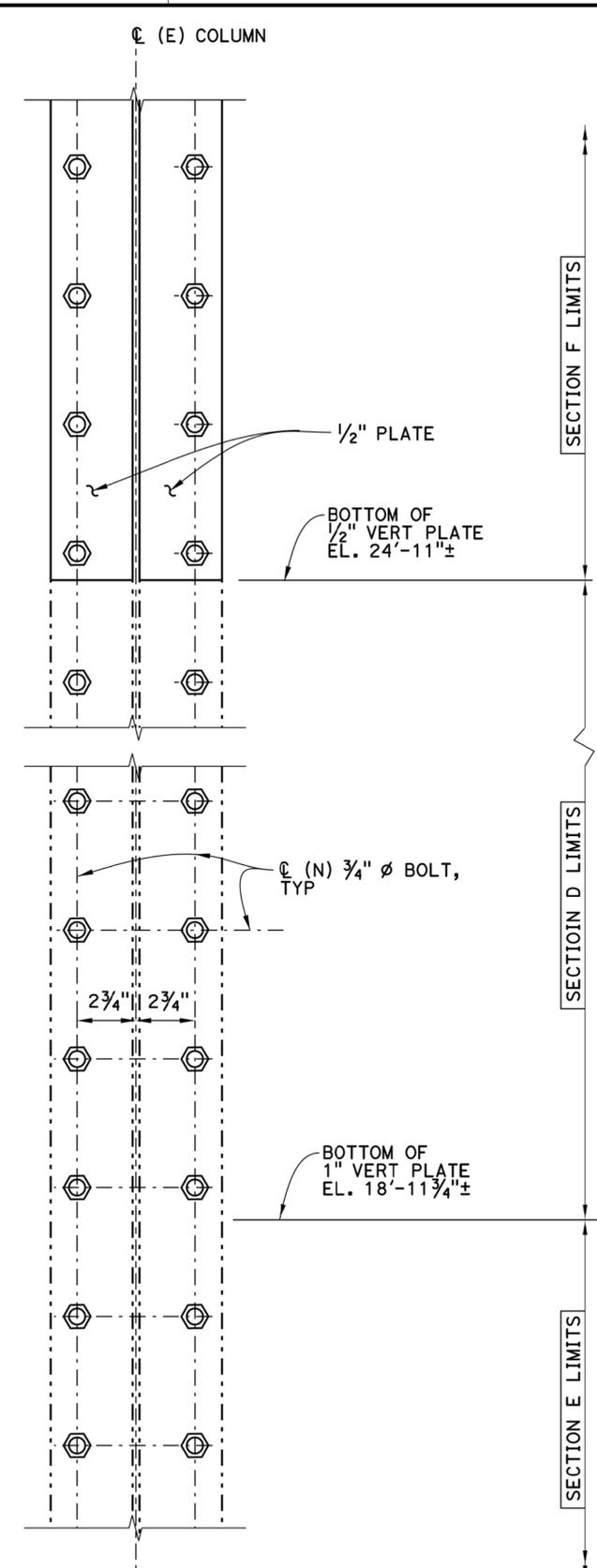
08/24/15
 APPROVAL DATE
 DATE
 08/17/15
 DATE
 Gregory Benkovich
 REGISTERED ENGINEER
 No. C40518
 Exp. 3/31/17
 CIVIL
 STATE OF CALIFORNIA

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DETAIL 8
3" = 1'-0"



SECTION C
3" = 1'-0"

- NOTES:**
- THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
 - EXISTING HSS STRUTS SHOWN ARE LOCATED AT THE EXISTING PARTITION WALLS. SEE SHEETS S101 AND D401 FOR LOCATION OF PARTITION WALLS. THE HSS STRUTS ARE OFFSET FROM THE CENTERLINE OF THE COLUMNS ALONG COLUMN LINE B BETWEEN GRIDLINES 7 AND 8 AS SHOWN ON THIS DRAWING. ALL OTHER HSS STRUTS ALONG COLUMN LINE B ARE LOCATED AT CENTERLINE OF THE COLUMNS.
 - FOR NON-TYPICAL BOLT INSTALLATION OR CONNECTION AT WINDOW AND SIDING FRAMING ATTACHMENTS SEE SHEET S329.

2 REPLACED PER ADDENDUM NO. 2
DATED SEPTEMBER 18, 2015

SEAN SAMUEL DESIGN OVERSIGHT 08/24/15 SIGN OFF DATE	MARK DATE DESCRIPTIONS REVISIONS BY CHD	DESIGN BY G. BENKOVICH CHECKED V. LOPEZ	BY O. KURNOVSKAYA CHECKED G. BENKOVICH	BY M. MOORE CHECKED G. BENKOVICH	PREPARED FOR THE BAY AREA TOLL AUTHORITY	R. DONIKIAN PROJECT ENGINEER	BRIDGE NO. POST MILES 2.0	BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT COLUMN SECTIONS AND DETAILS NO. 3	SHEET S323
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 04 PROJECT NUMBER AND PHASE: 04-15000182	CONTRACT NO.: 04-01413	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES SHEET 108 OF 124

11-SEP-2015 10:10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	ALA	80	2.0	109	124

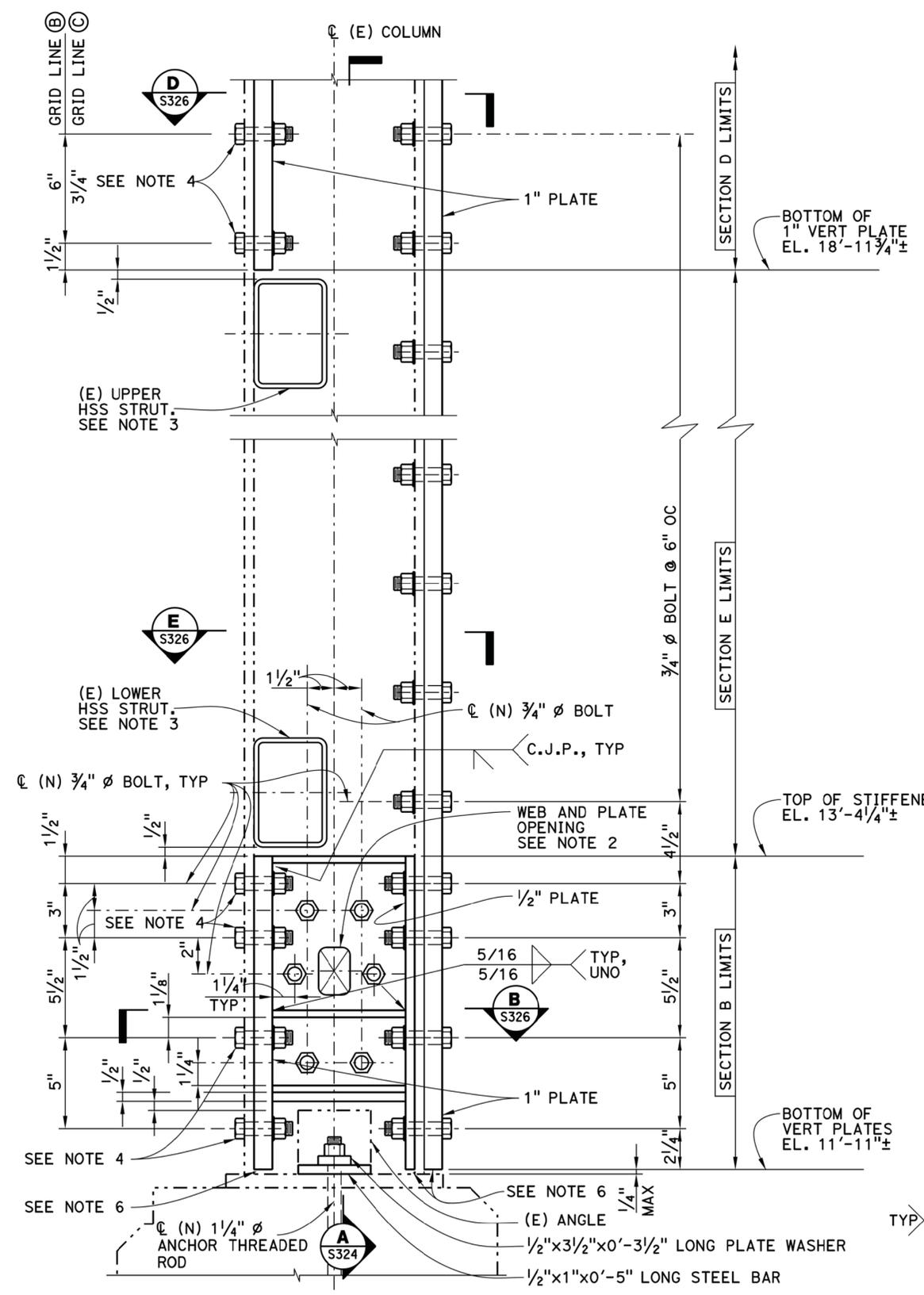
08/24/15
 APPROVAL DATE
 DATE

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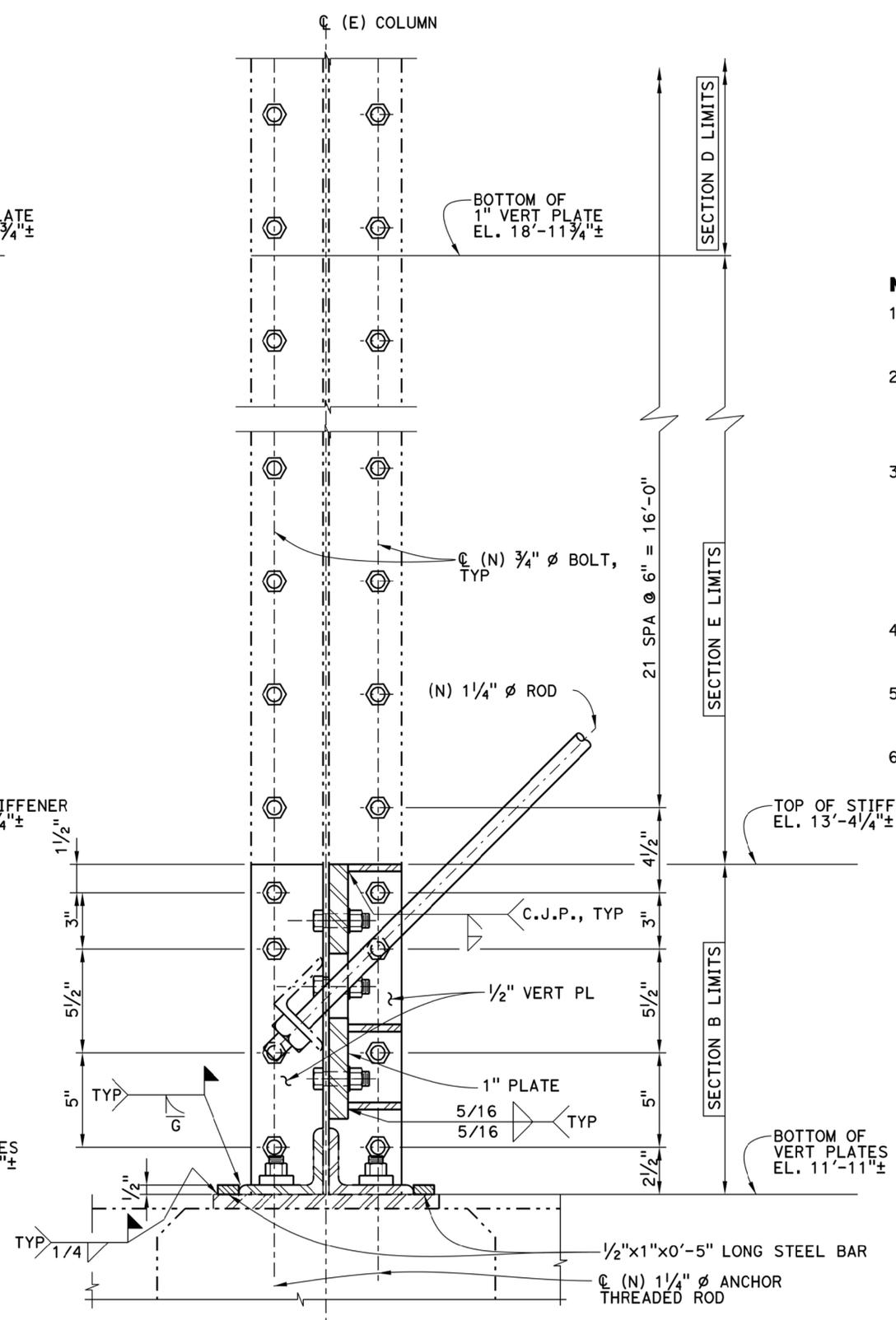


- NOTES:**
- THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
 - OPENING FOR 1 1/4" Ø TIE ROD BRACE IN NEW 1" PLATE SHALL HAVE SAME WIDTH AS EXISTING WEB OPENING. THE HEIGHT OF OPENING SHALL BE SUCH THAT CLEARANCE BETWEEN EDGE OF OPENING AND 1 1/4" Ø TIE ROD BRACE IS 3/8".
 - EXISTING HSS STRUTS SHOWN ARE LOCATED AT THE EXISTING PARTITION WALLS. SEE SHEETS S101 AND D401 FOR LOCATION OF PARTITION WALLS. THE HSS STRUTS ARE OFFSET FROM THE CENTERLINE OF THE COLUMNS ALONG COLUMN LINE B BETWEEN GRIDLINES 7 AND 8 AS SHOWN ON THIS DRAWING. ALL OTHER HSS STRUTS ALONG COLUMN LINE B ARE LOCATED AT CENTERLINE OF THE COLUMNS.
 - BOLTS SHOWN FOR COLUMN LINE B. FOR COLUMN LINE C BOLT HEAD SHALL FACE INTERIOR OF BUILDING.
 - FOR NON-TYPICAL BOLT INSTALLATION OR CONNECTION AT WINDOW AND SIDING FRAMING ATTACHMENTS SEE SHEET S329.
 - CHAMFER PLATE AS-NEEDED TO AVOID INTERFERENCE WITH EXISTING WELD.



TYPICAL COLUMN DETAIL AT BRACED BAY

DETAIL 9
3" = 1'-0" S303



SECTION A
3" = 1'-0" S324

2 REPLACED PER ADDENDUM NO. 2
DATED SEPTEMBER 18, 2015

SEAN SAMUEL DESIGN OVERSIGHT 08/24/15 SIGN OFF DATE	MARK DATE DESCRIPTIONS REVISIONS BY CHD	DESIGN BY G. BENKOVICH CHECKED V. LOPEZ DETAILS BY O. KURNOVSKAYA CHECKED G. BENKOVICH QUANTITIES BY M. MOORE CHECKED G. BENKOVICH	PREPARED FOR THE BAY AREA TOLL AUTHORITY	R. DONIKIAN PROJECT ENGINEER	BRIDGE NO POST MILES 2.0	BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT COLUMN SECTIONS AND DETAILS NO. 4	SHEET S324
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 04 PROJECT NUMBER AND PHASE: 04-15000182	CONTRACT NO.: 04-01413	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET OF 109 124

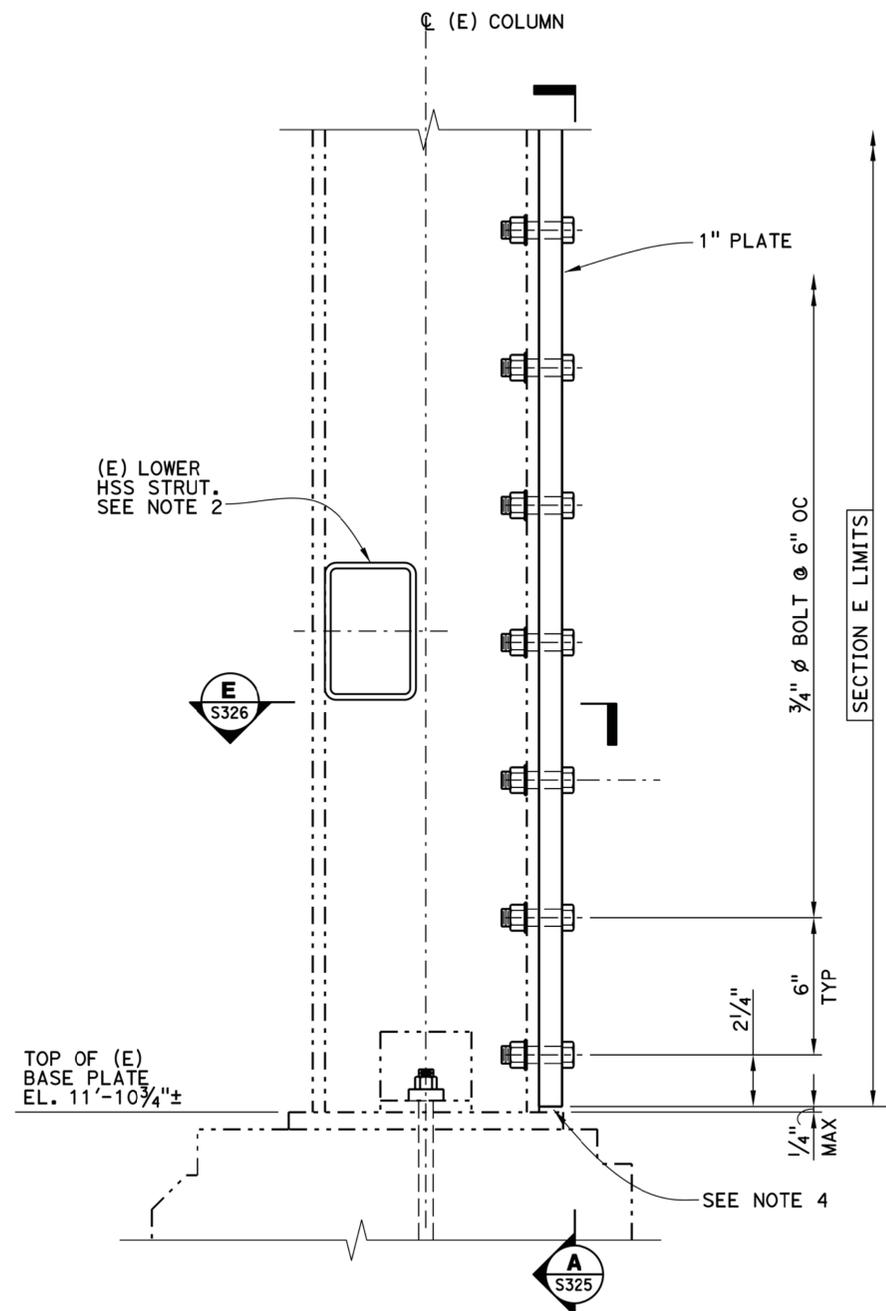
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	ALA	80	2.0	110	124

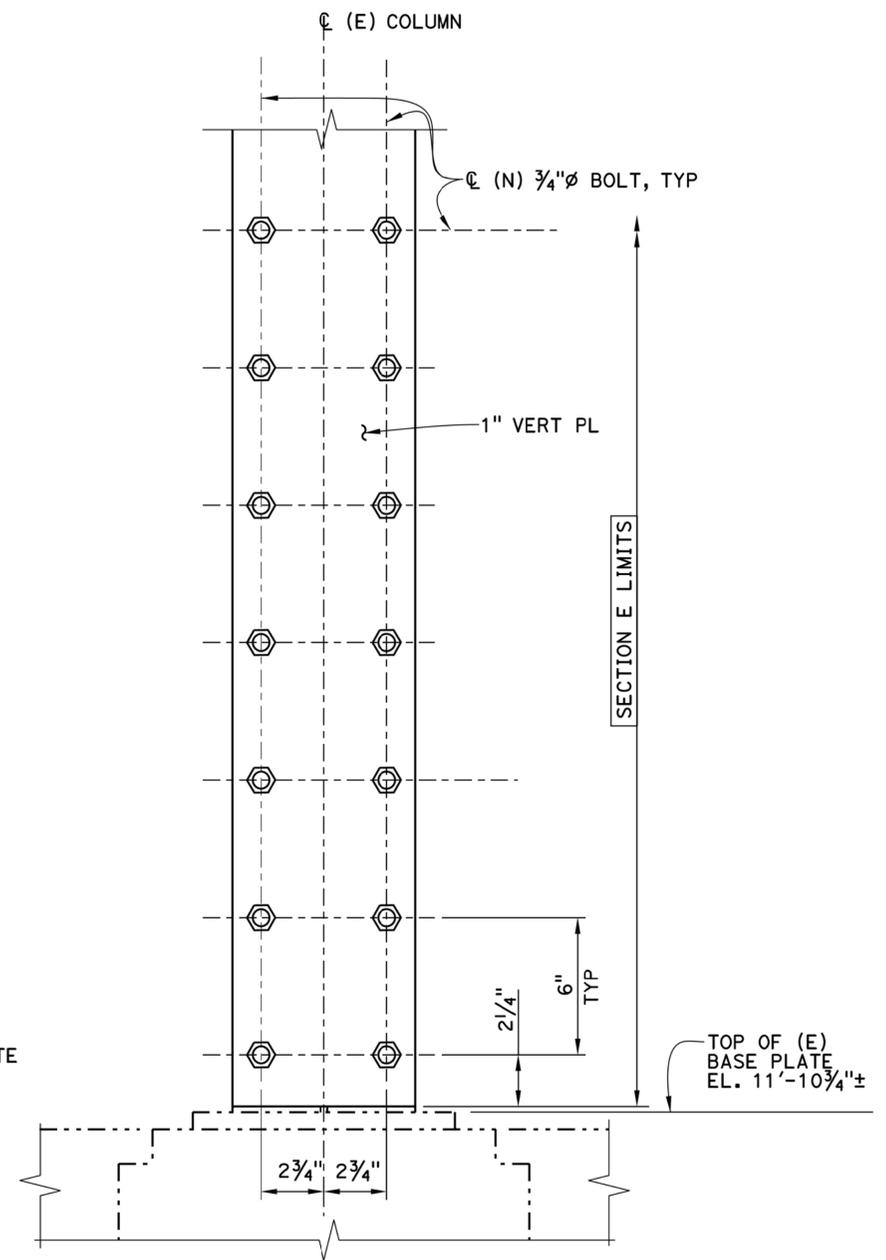
08/24/15
 REGISTERED ENGINEER DATE
 08/17/15
 REGISTERED PROFESSIONAL ENGINEER DATE
 Gregory Benkovich
 No. C40518
 Exp. 3/31/17
 CIVIL
 STATE OF CALIFORNIA

Parsons Brinckerhoff
 425 Market Street
 17th Floor
 San Francisco, CA 94105

- NOTES:**
1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
 2. EXISTING HSS STRUTS SHOWN ARE LOCATED AT THE EXISTING PARTITION WALLS. SEE SHEETS S101 AND D401 FOR LOCATION OF PARTITION WALLS. THE HSS STRUTS ARE OFFSET FROM THE CENTERLINE OF THE COLUMNS ALONG COLUMN LINE B BETWEEN GRIDLINES 7 AND 8 AS SHOWN ON THIS DRAWING. ALL OTHER HSS STRUTS ALONG COLUMN LINE B ARE LOCATED AT CENTERLINE OF THE COLUMNS.
 3. FOR NON-TYPICAL BOLT INSTALLATION OR CONNECTION AT WINDOW AND SIDING FRAMING ATTACHMENTS SEE SHEET S329.
 4. CHAMFER PLATE AS-NEEDED TO AVOID INTERFERENCE WITH EXISTING WELD.



TYPICAL COLUMN DETAIL
 AT NON-BRACED BAY
DETAIL 10
 3" = 1'-0" S303



SECTION A
 3" = 1'-0" S325

2 REPLACED PER ADDENDUM NO. 2 DATED SEPTEMBER 18, 2015

SEAN SAMUEL DESIGN OVERSIGHT 08/24/15 SIGN OFF DATE	MARK DATE DESCRIPTIONS REVISIONS BY CHD	DESIGN BY G. BENKOVICH CHECKED V. LOPEZ	BY O. KURNOVSKAYA CHECKED G. BENKOVICH	BY M. MOORE CHECKED G. BENKOVICH	PREPARED FOR THE BAY AREA TOLL AUTHORITY	R. DONIKIAN PROJECT ENGINEER	BRIDGE NO. POST MILES 2.0	BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT COLUMN SECTIONS AND DETAILS NO. 5	SHEET S325
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 04 PROJECT NUMBER AND PHASE: 04-15000182	CONTRACT NO.: 04-01413	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES SHEET 110 OF 124

11-SEP-2015 10:11

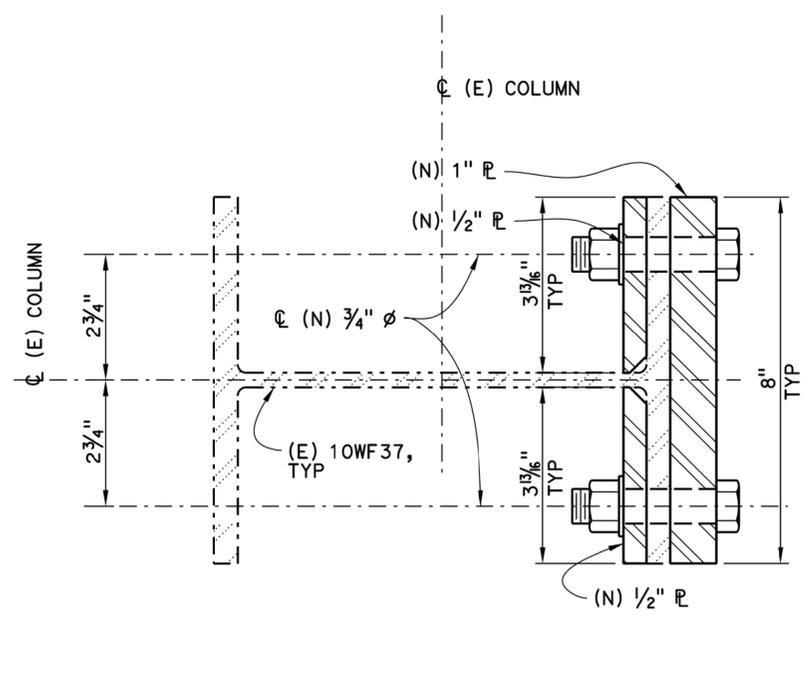
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	ALA	80	2.0	111	124

08/24/15
 APPROVAL DATE
 PLANS APPROVAL DATE

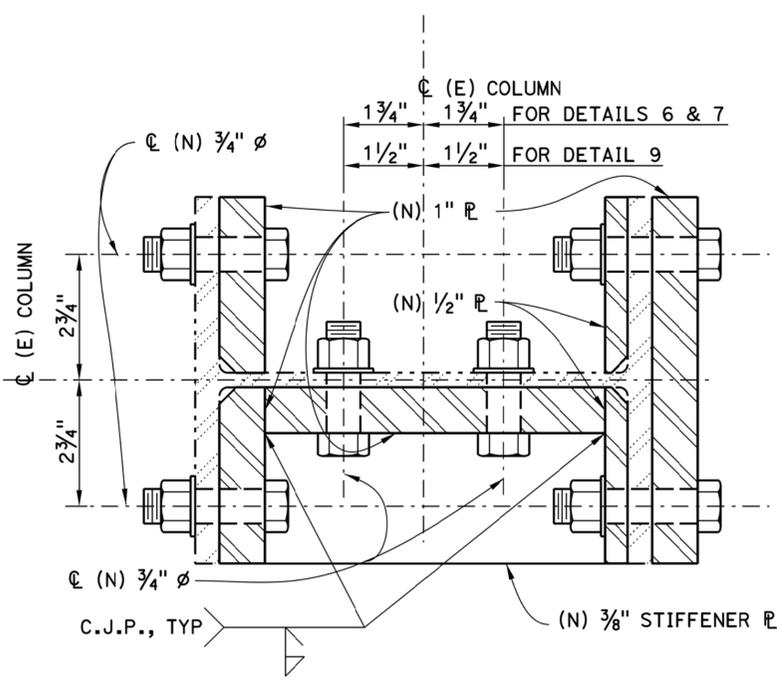
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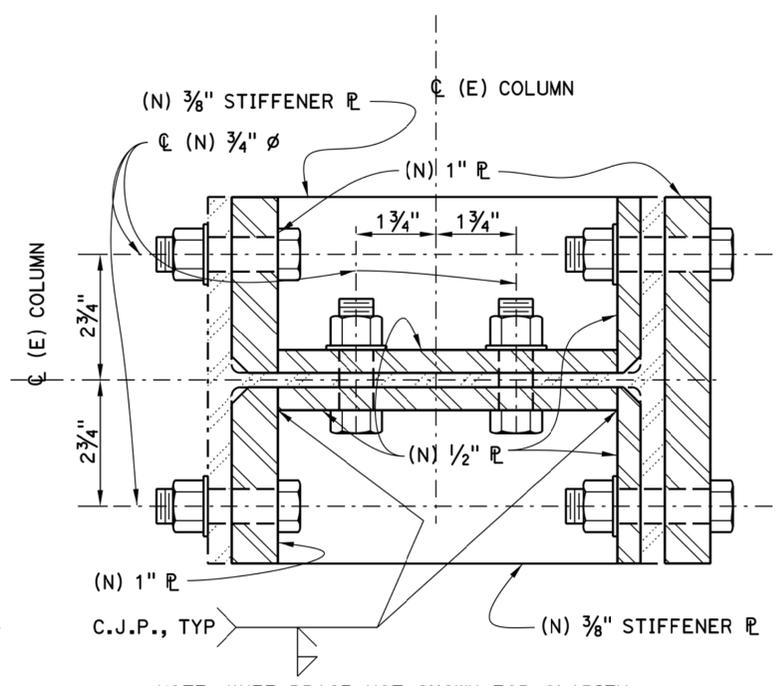
- NOTES:**
1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
 2. FOR BOLT ORIENTATION, BOLT HEAD LOCATION AT THE COLUMN FLANGE, SEE DRAWINGS S321, S322, S323, S324, S325, S327 AND S328
 3. FOR NON-TYPICAL BOLT INSTALLATION OR CONNECTION AT WINDOW AND SIDING FRAMING ATTACHMENTS SEE SHEET S329.



SECTION A
6" = 1'-0" S321 S303

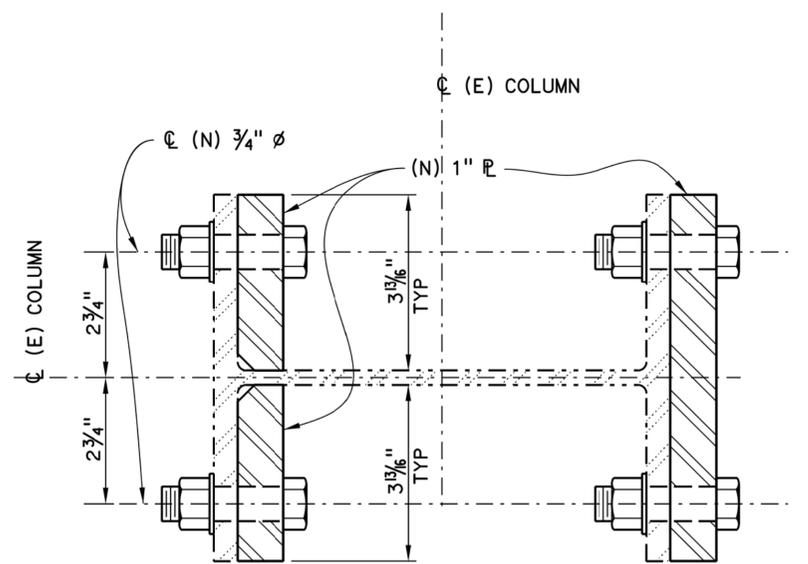


SECTION B
6" = 1'-0" S321 S303 S324

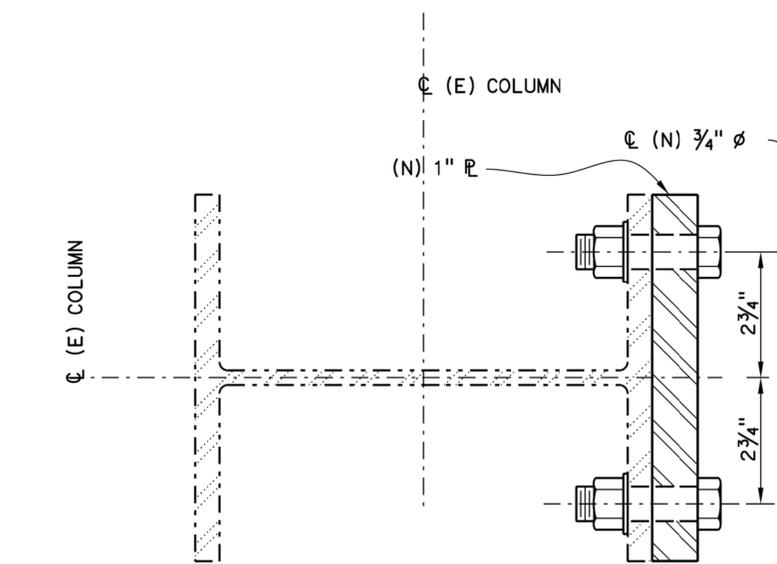


NOTE: KNEE BRACE NOT SHOWN FOR CLARITY.

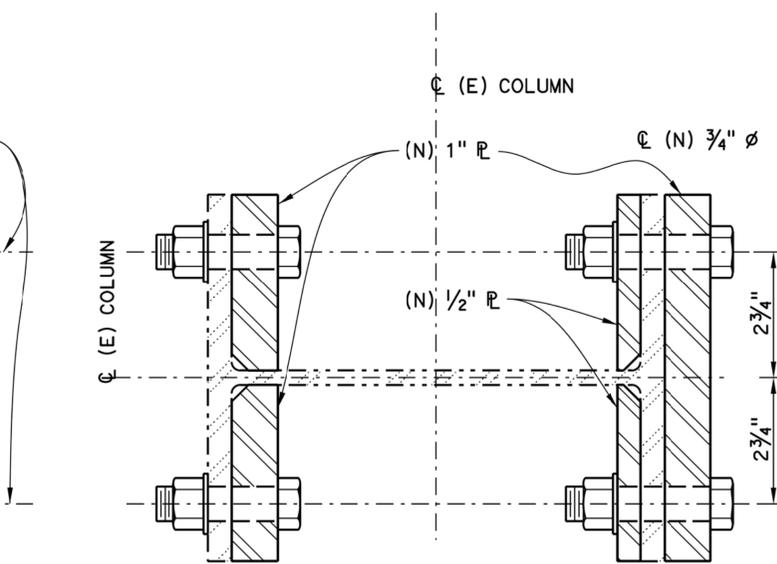
SECTION C
6" = 1'-0" S321 S303 S322 S327



SECTION D
6" = 1'-0" S322 S303 S323 S324 S327 S328



SECTION E
6" = 1'-0" S323 S303 S324 S325 S328



SECTION F
6" = 1'-0" S322 S303 S323 S327 S328

2 REPLACED PER ADDENDUM NO. 2 DATED SEPTEMBER 18, 2015

SEAN SAMUEL DESIGN OVERSIGHT 08/24/15 SIGN OFF DATE	MARK DATE DESCRIPTIONS REVISIONS BY CHD	DESIGN BY G. BENKOVICH CHECKED V. LOPEZ DETAILS BY O. KURNOVSKAYA CHECKED G. BENKOVICH QUANTITIES BY M. MOORE CHECKED G. BENKOVICH	PREPARED FOR THE BAY AREA TOLL AUTHORITY	R. DONIKIAN PROJECT ENGINEER	BRIDGE NO POST MILES 2.0	BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT COLUMN SECTIONS	SHEET S326
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 04 PROJECT NUMBER AND PHASE: 04-15000182	CONTRACT NO.: 04-01413	REVISION DATES	SHEET OF 111 124

11-SEP-2015 10:11

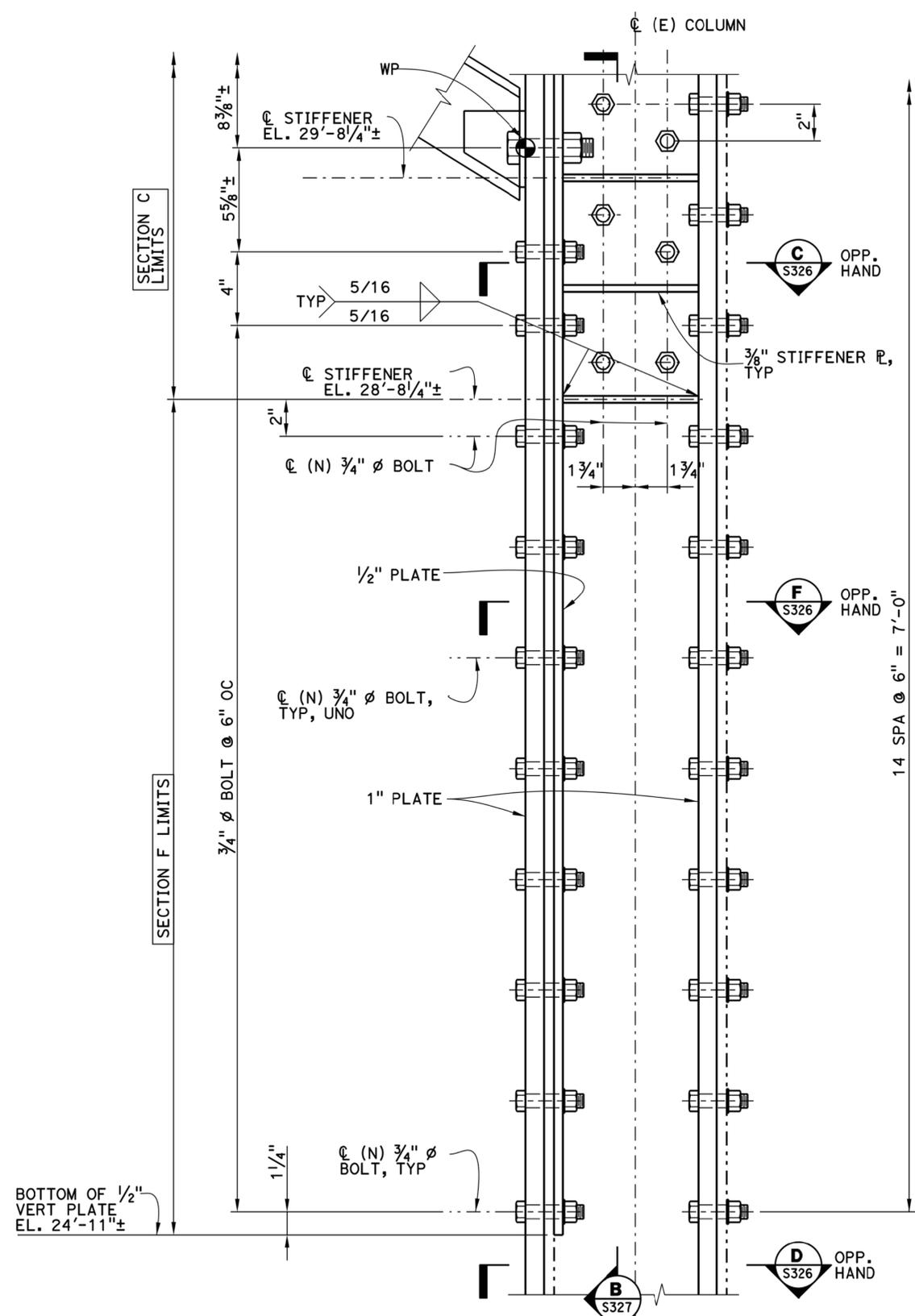
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	ALA	80	2.0	112	124

08/24/15
 REGISTERED ENGINEER
 PLANS APPROVAL DATE

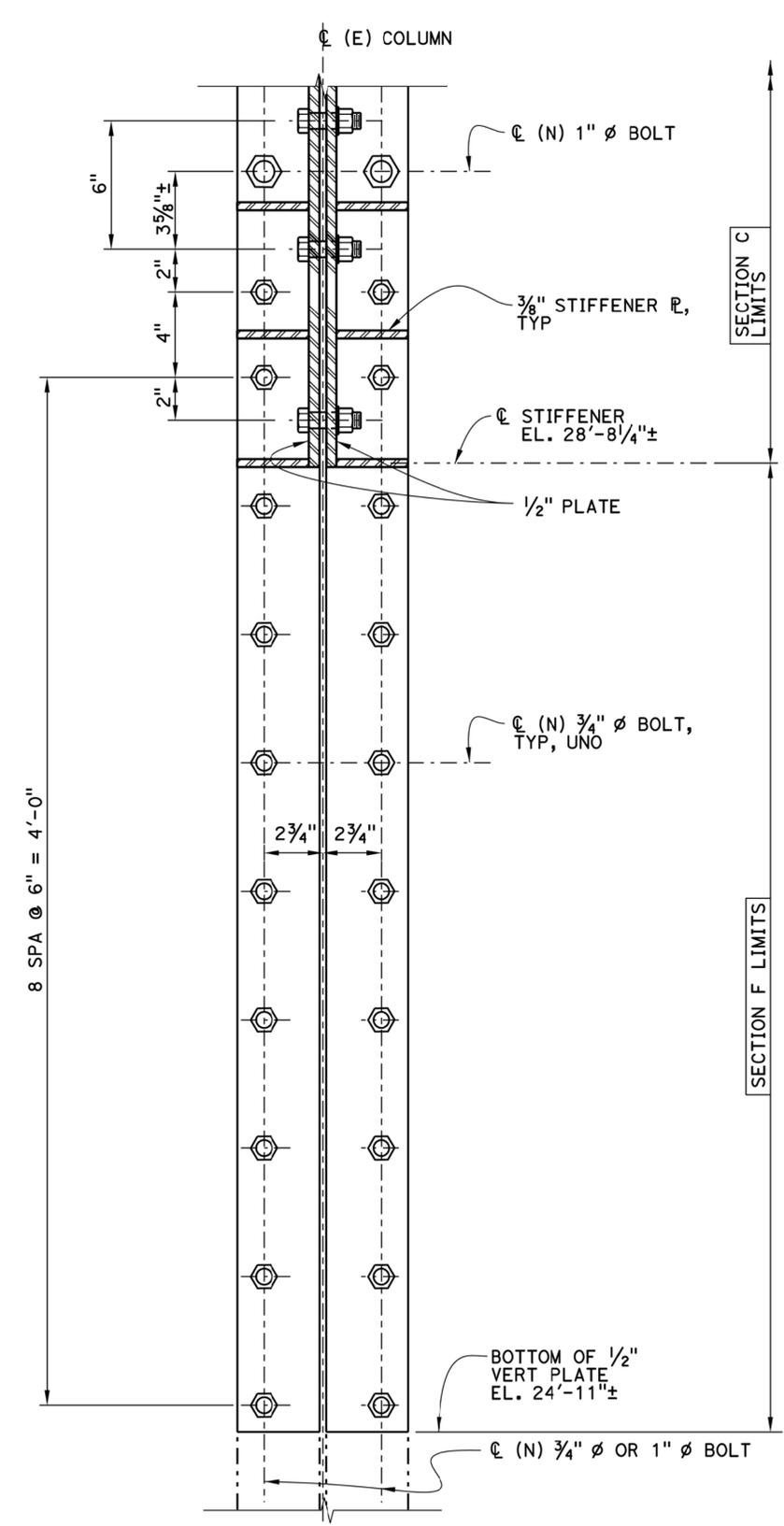
08/17/15
 DATE

Gregory Benkovich
 No. C40518
 Exp. 3/31/17
 CIVIL
 STATE OF CALIFORNIA

Parsons Brinckerhoff
 425 Market Street
 17th Floor
 San Francisco, CA 94105



DETAIL 11
3" = 1'-0" S303



SECTION B
3" = 1'-0" S327

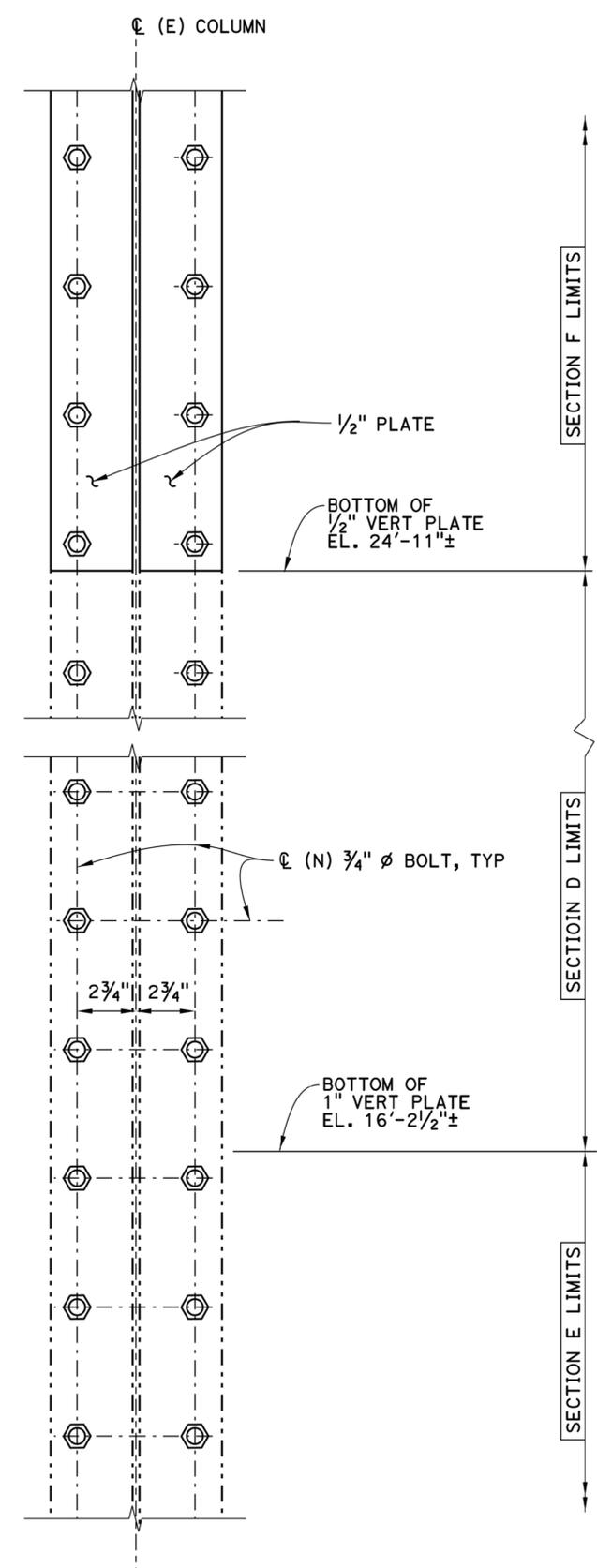
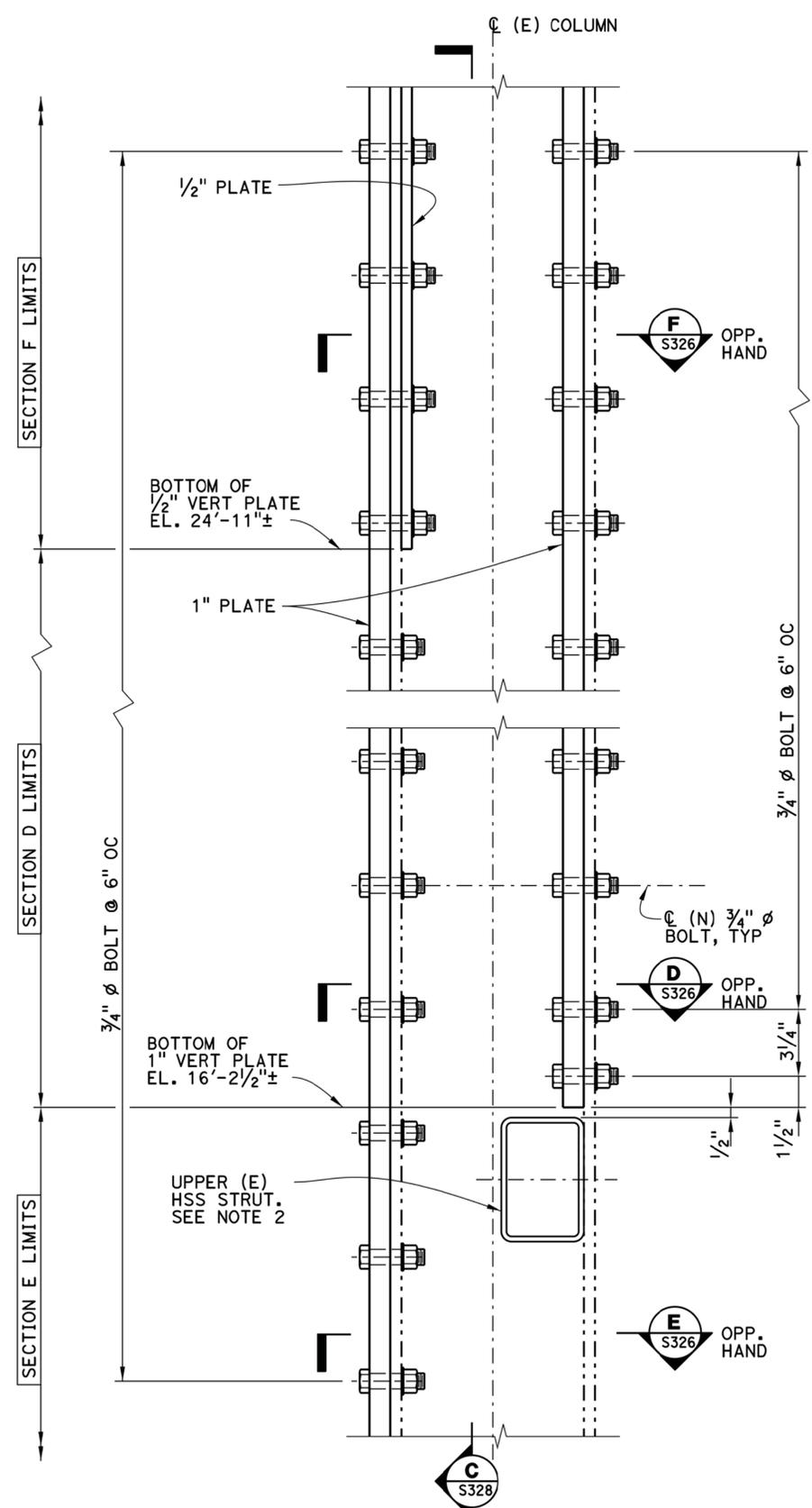
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1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
 2. FOR NON-TYPICAL BOLT INSTALLATION OR CONNECTION AT WINDOW AND SIDING FRAMING ATTACHMENTS SEE SHEET S329.

2 REPLACED PER ADDENDUM NO. 2
DATED SEPTEMBER 18, 2015

SEAN SAMUEL DESIGN OVERSIGHT 08/24/15 SIGN OFF DATE	MARK DATE DESCRIPTIONS REVISIONS BY CHD	DESIGN BY G. BENKOVICH CHECKED V. LOPEZ DETAILS BY O. KURNOVSKAYA CHECKED G. BENKOVICH QUANTITIES BY M. MOORE CHECKED G. BENKOVICH	CHECKED V. LOPEZ G. BENKOVICH G. BENKOVICH	PREPARED FOR THE BAY AREA TOLL AUTHORITY	R. DONIKIAN PROJECT ENGINEER	BRIDGE NO POST MILES 2.0	BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT COLUMN SECTIONS AND DETAILS NO. 6	SHEET S327
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 04 PROJECT NUMBER AND PHASE: 04-15000182	CONTRACT NO.: 04-01413	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES SHEET 112 OF 124

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	ALA	80	2.0	113	124
08/24/15 REGISTERED ENGINEER			08/17/15 DATE		
08/24/15 PLANS APPROVAL DATE			08/17/15 DATE		
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NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
2. EXISTING HSS STRUTS SHOWN ARE LOCATED AT THE EXISTING PARTITION WALLS. SEE SHEETS S101 AND D401 FOR LOCATION OF PARTITION WALLS. THE HSS STRUTS ARE OFFSET FROM THE CENTERLINE OF THE COLUMNS ALONG COLUMN LINE C AS SHOWN ON THIS DRAWING.
3. FOR NON-TYPICAL BOLT INSTALLATION OR CONNECTION AT WINDOW AND SIDING FRAMING ATTACHMENTS SEE SHEET S329.

2 REPLACED PER ADDENDUM NO. 2 DATED SEPTEMBER 18, 2015

SEAN SAMUEL DESIGN OVERSIGHT 08/24/15 SIGN OFF DATE	MARK DATE DESCRIPTIONS REVISIONS BY CHD	DESIGN BY G. BENKOVICH CHECKED V. LOPEZ	PREPARED FOR THE BAY AREA TOLL AUTHORITY	R. DONIKIAN PROJECT ENGINEER	BRIDGE NO BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT	SHEET S328
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)		DETAILS BY O. KURNOVSKAYA CHECKED G. BENKOVICH	PROJECT NUMBER AND PHASE: 04-15000182	CONTRACT NO.: 04-01413	COLUMN SECTIONS AND DETAILS NO. 7	
		QUANTITIES BY M. MOORE CHECKED G. BENKOVICH	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 04	REVISION DATES	SHEET OF 113 124

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	ALA	80	2.0	114	124

08/24/15
 PLANS APPROVAL DATE

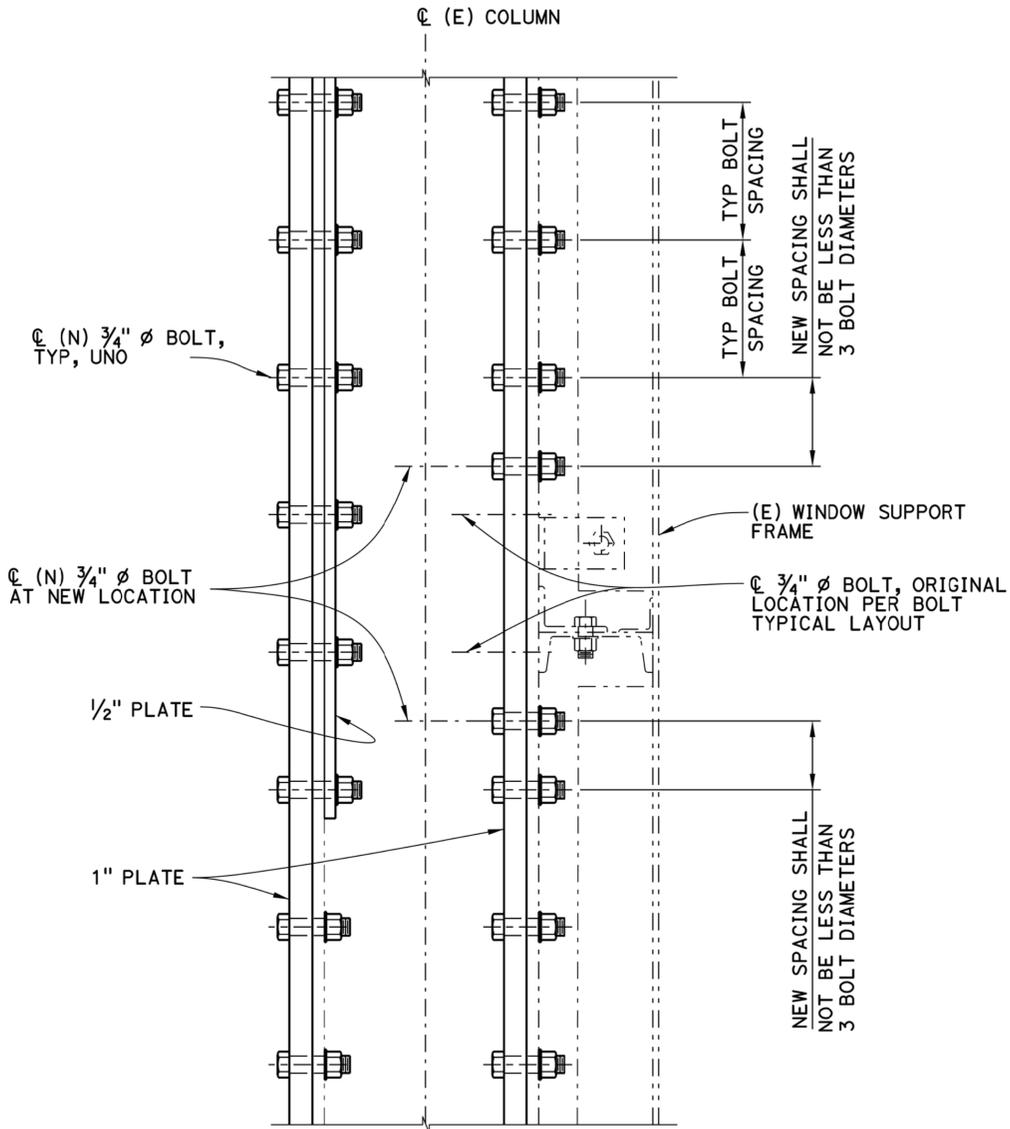
08/17/15
 DATE

Registered Professional Engineer
 Gregory Benkovich
 No. C40518
 Exp. 3/31/17
 CIVIL
 STATE OF CALIFORNIA

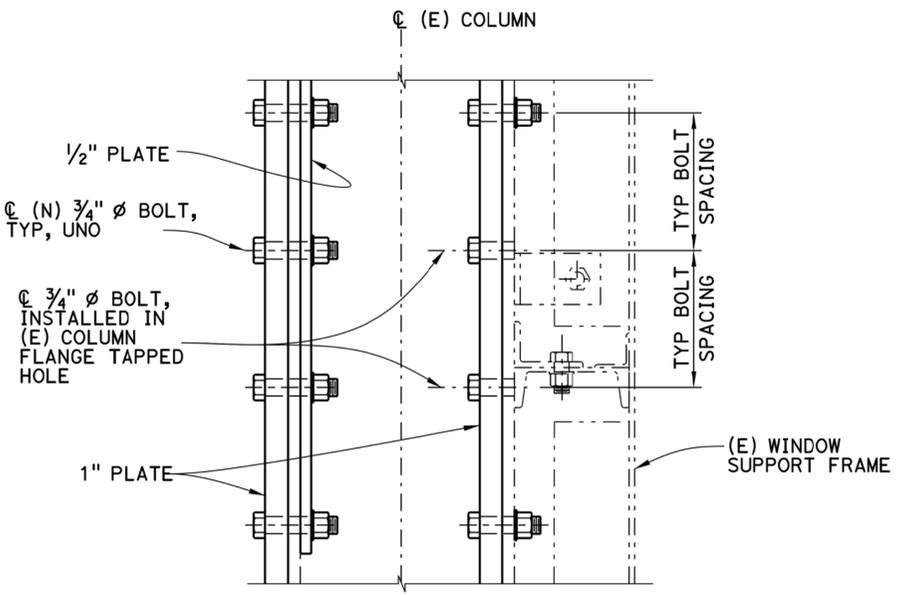
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NOTES:

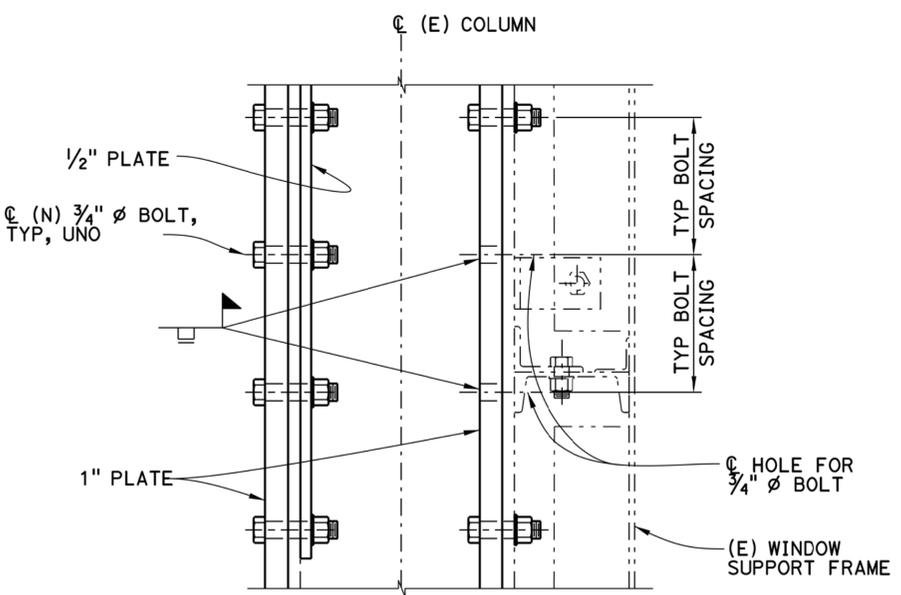
- THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
- THE PLATE ATTACHMENT OPTIONS SHOWN ARE APPLICABLE ONLY AT LOCATIONS WHERE THERE IS INTERFERENCE WITH EXISTING MEMBERS SUCH AS SIDING OR WINDOW SUPPORT FRAMES.
- WHERE NEW BOLT LOCATION INTERFERES WITH EXISTING ATTACHMENT TO COLUMN FLANGES, THE CONTRACTOR HAS THE FOLLOWING THREE OPTIONS:
 - OPTION 1
ADJUST LOCATION OF NEW BOLT. MAINTAIN REQUIRED MINIMUM SPACING BETWEEN BOLTS AND MINIMUM EDGE DISTANCE.
 - OPTION 2
TAP HOLES IN EXISTING COLUMN FLANGES AND INSTALL NEW BOLTS PER TYPICAL SPACING.
 - OPTION 3
ATTACH THE NEW PLATES TO EXISTING COLUMN FLANGES BY PLUG WELDING. THIS SHALL BE DONE ONE COLUMN AT A TIME. THIS OPTION SHALL BE USED ONLY WHEN OPTIONS 1 & 2 ARE NOT FEASIBLE.



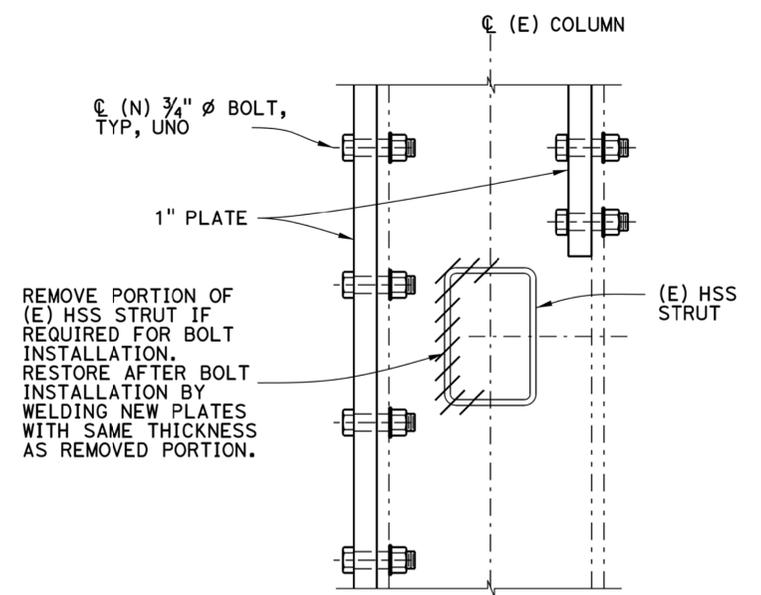
TYPICAL BOLT LOCATION ADJUSTMENT DETAIL
SEE NOTES 2 AND 3
OPTION 1
3" = 1'-0"



TYPICAL BOLT INSTALLATION IN EXISTING COLUMN
FLANGE TAPPED HOLE DETAIL
SEE NOTES 2 AND 3
OPTION 2
3" = 1'-0"



TYPICAL PLUG WELD CONNECTION DETAIL
SEE NOTES 2 AND 3
OPTION 3
3" = 1'-0"



TYPICAL HSS STRUT PARTIAL REMOVAL
DETAIL
3" = 1'-0"

REPLACED PER ADDENDUM NO. 2 DATED SEPTEMBER 18, 2015

SEAN SAMUEL DESIGN OVERSIGHT 08/24/15 SIGN OFF DATE	MARK DATE DESCRIPTIONS REVISIONS BY CHD	DESIGN BY G. BENKOVICH CHECKED V. LOPEZ	BY O. KURNOVSKAYA CHECKED G. BENKOVICH	QUANTITIES BY M. MOORE CHECKED G. BENKOVICH	PREPARED FOR THE BAY AREA TOLL AUTHORITY	R. DONIKIAN PROJECT ENGINEER	BRIDGE NO POST MILES 2.0	BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT COLUMN DETAILS AT WINDOW AND SIDING FRAMING ATTACHMENTS	SHEET S329
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 04 PROJECT NUMBER AND PHASE: 04-15000182	CONTRACT NO.: 04-01413	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES SHEET 114 OF 124

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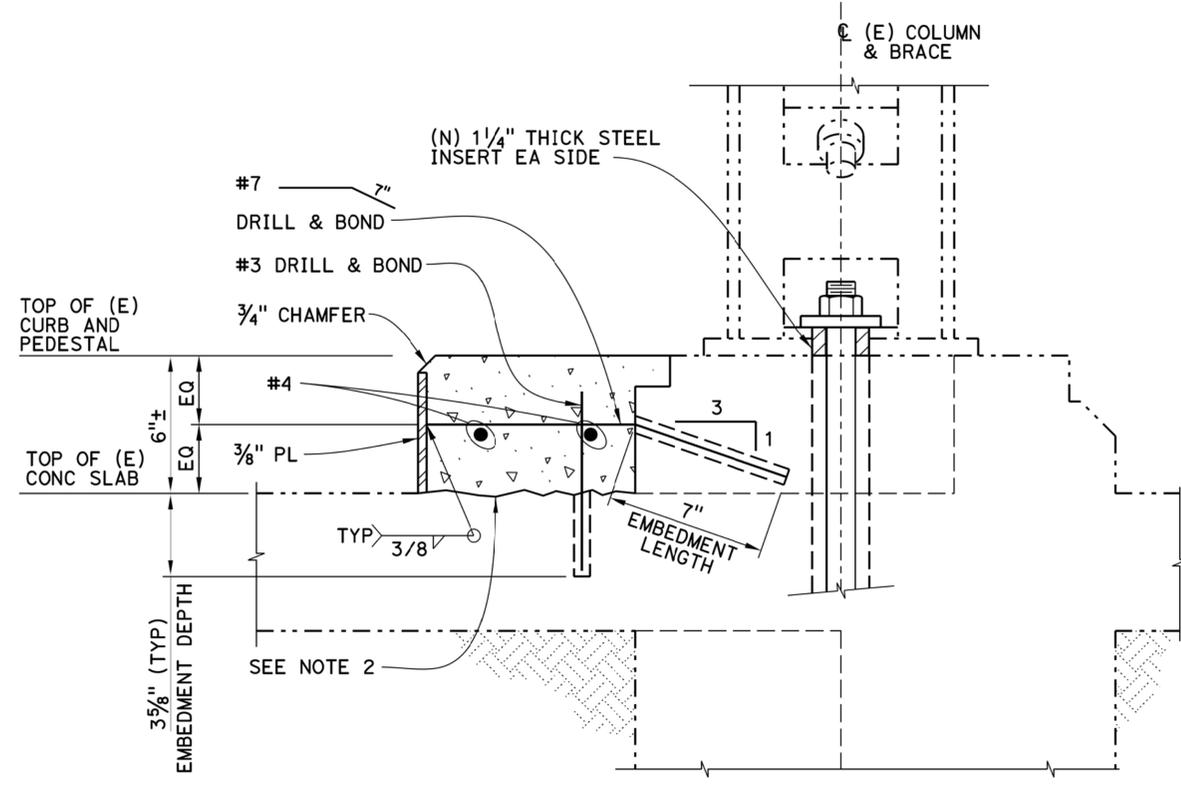
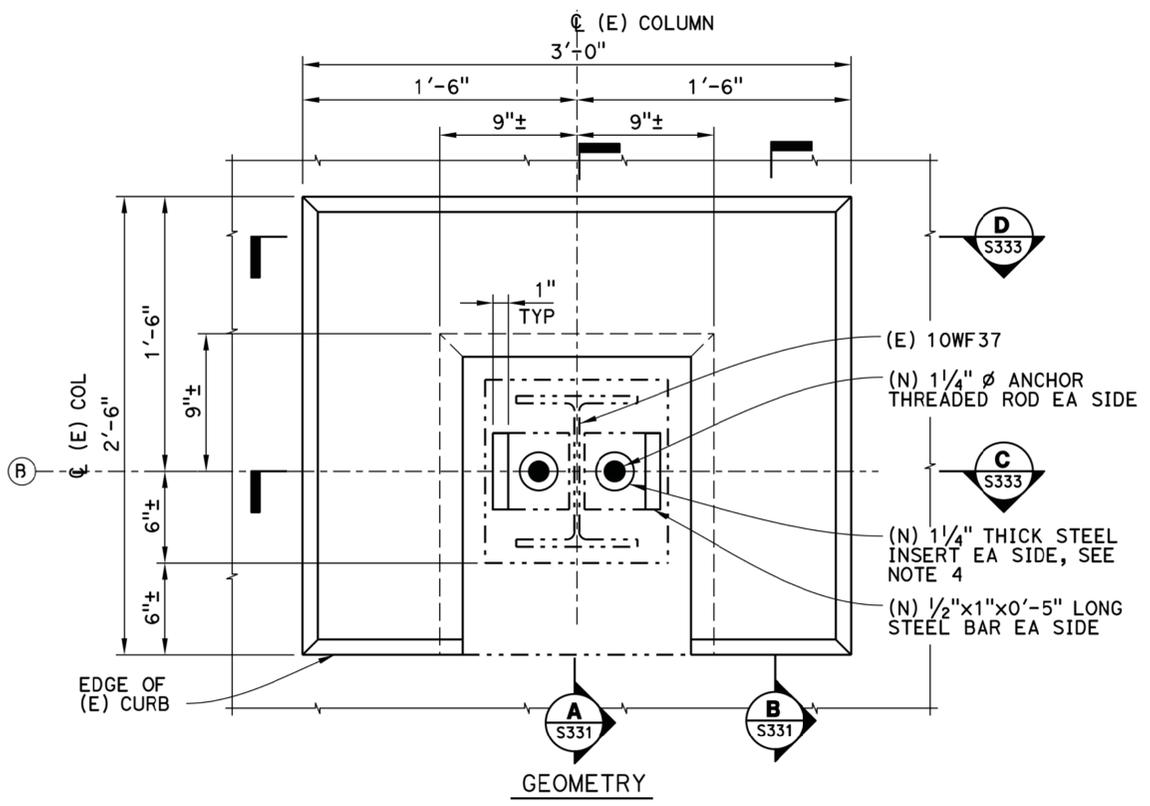
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	ALA	80	2.0	115	124

08/24/15
 PLANS APPROVAL DATE

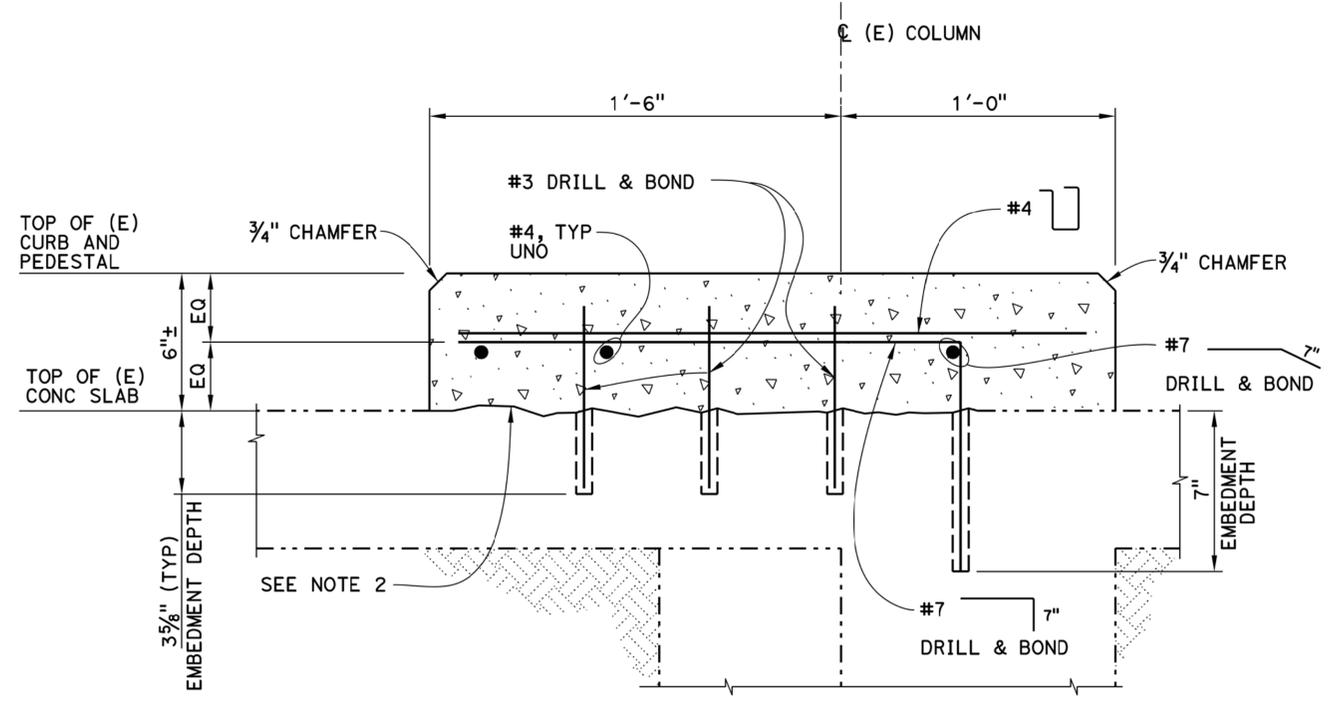
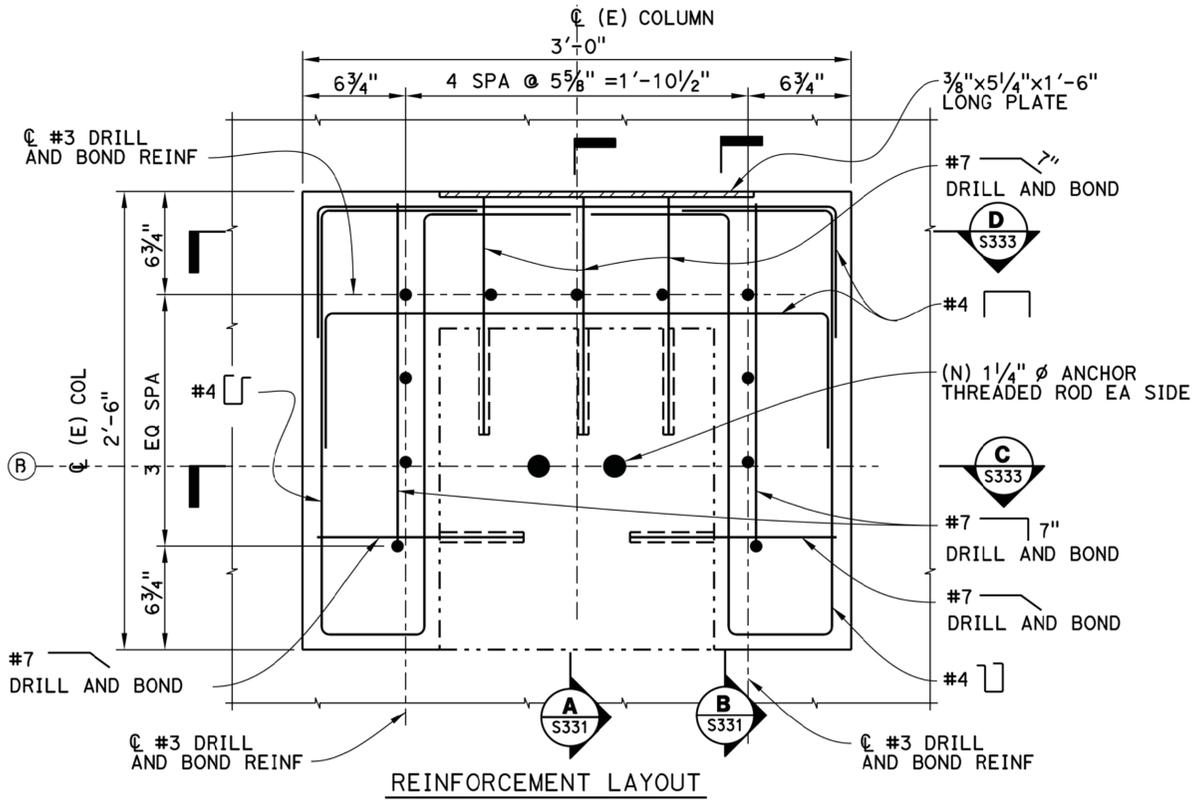
08/17/15
 DATE

Gregory Benkovich
 REGISTERED ENGINEER
 No. C40518
 Exp. 3/31/17
 CIVIL
 STATE OF CALIFORNIA

Parsons Brinckerhoff
 425 Market Street
 17th Floor
 San Francisco, CA 94105



- NOTES:**
1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
 2. ROUGHEN EXISTING SLAB SURFACE TO 1/4" AMPLITUDE, TYP.
 3. BOND MATERIAL FOR "DRILL AND BOND" REINFORCEMENT SHALL BE HILTI HIT RE 500 OR APPROVED EQUAL.
 4. OD SHALL BE 2 1/2" (-)
ID SHALL BE 1 1/8".



DETAIL 15
2" = 1'-0"

2 REPLACED PER ADDENDUM NO. 2
DATED SEPTEMBER 18, 2015

SEAN SAMUEL DESIGN OVERSIGHT 08/24/15 SIGN OFF DATE	MARK DATE DESCRIPTIONS REVISIONS	DESIGN BY G. BENKOVICH CHECKED V. LOPEZ	BY O. KURNOVSKAYA CHECKED G. BENKOVICH	BY M. MOORE CHECKED G. BENKOVICH	PREPARED FOR THE BAY AREA TOLL AUTHORITY	R. DONIKIAN PROJECT ENGINEER	BRIDGE NO. POST MILES 2.0	BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT PEDESTAL ENLARGEMENT DETAIL @ COL. LINE B	SHEET S331
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 04 PROJECT NUMBER AND PHASE: 04-15000182	CONTRACT NO.: 04-01413	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES SHEET 115 OF 124

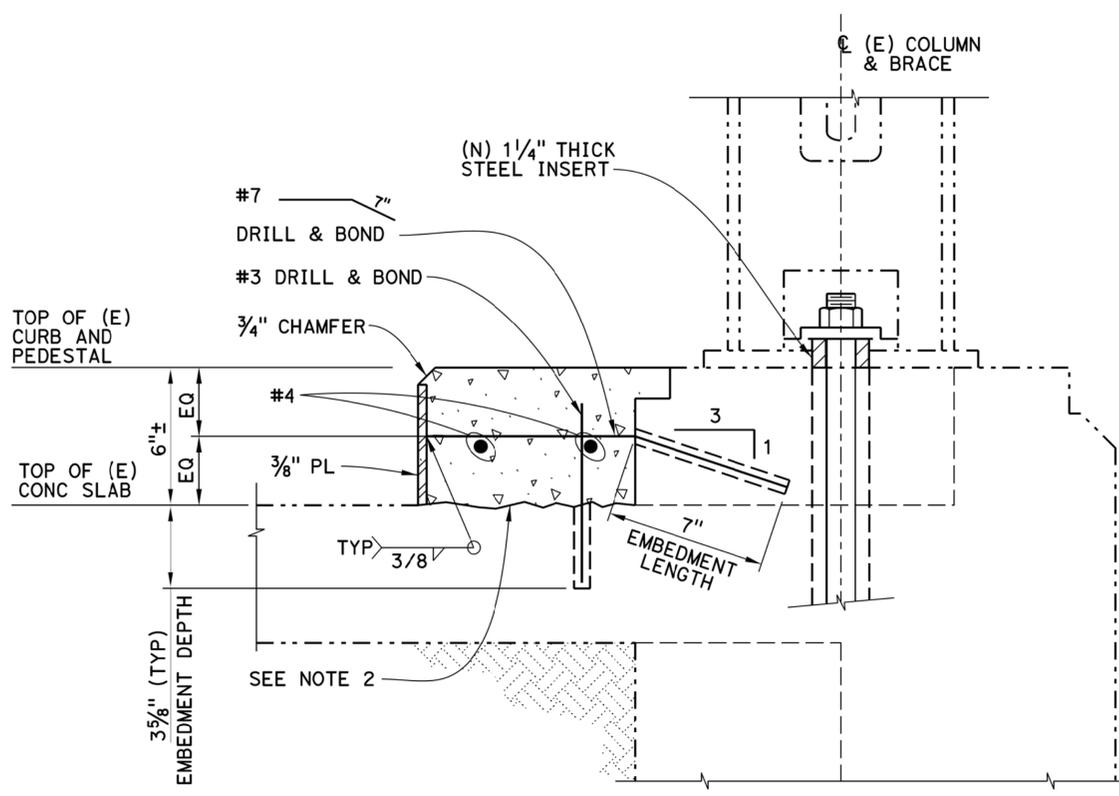
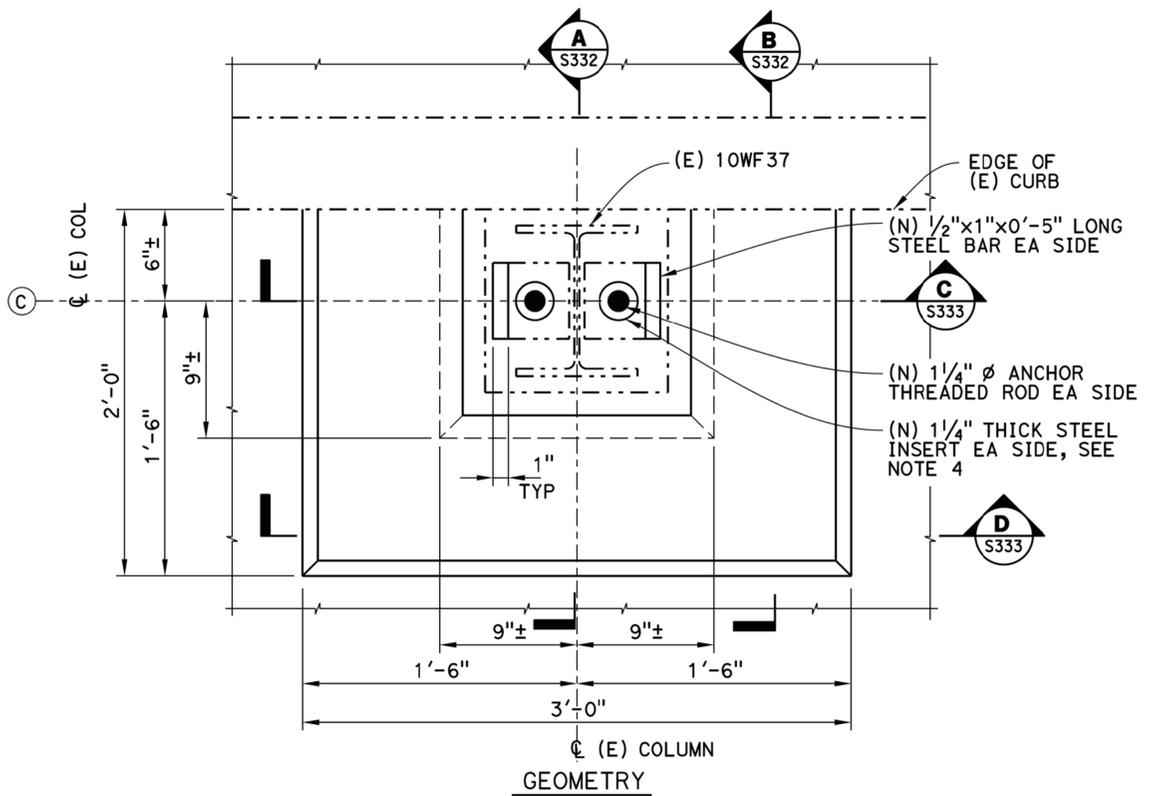
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	ALA	80	2.0	116	124

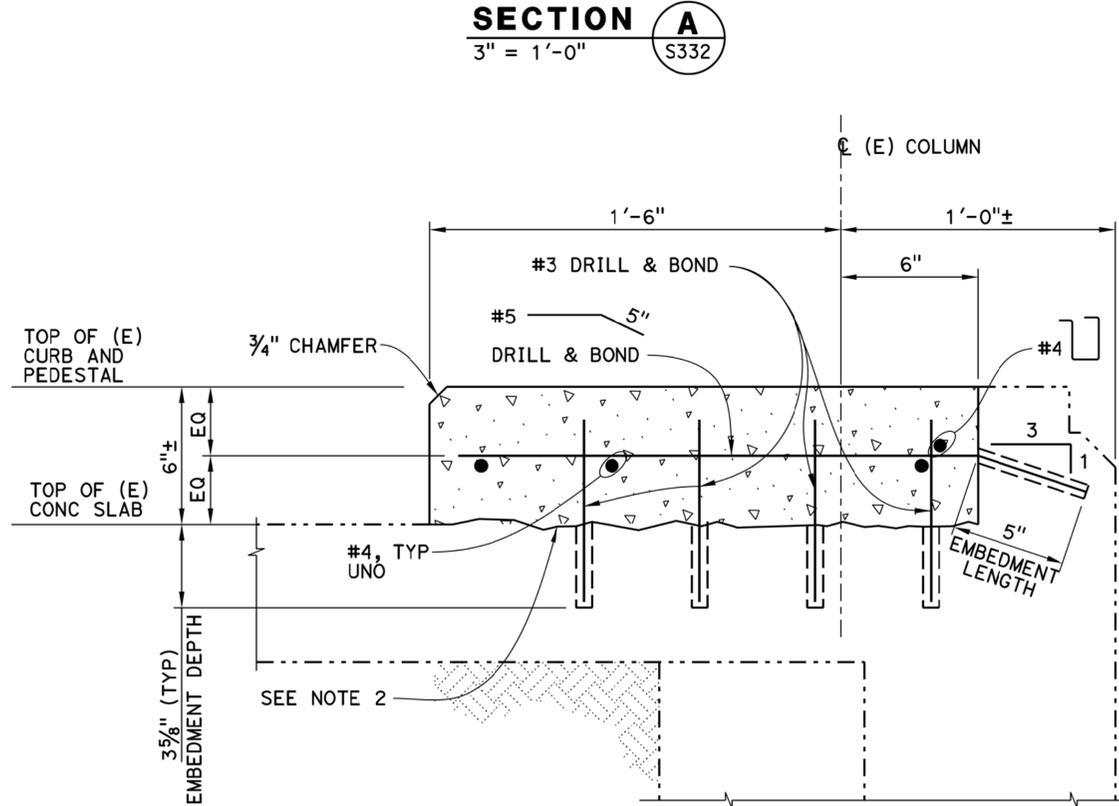
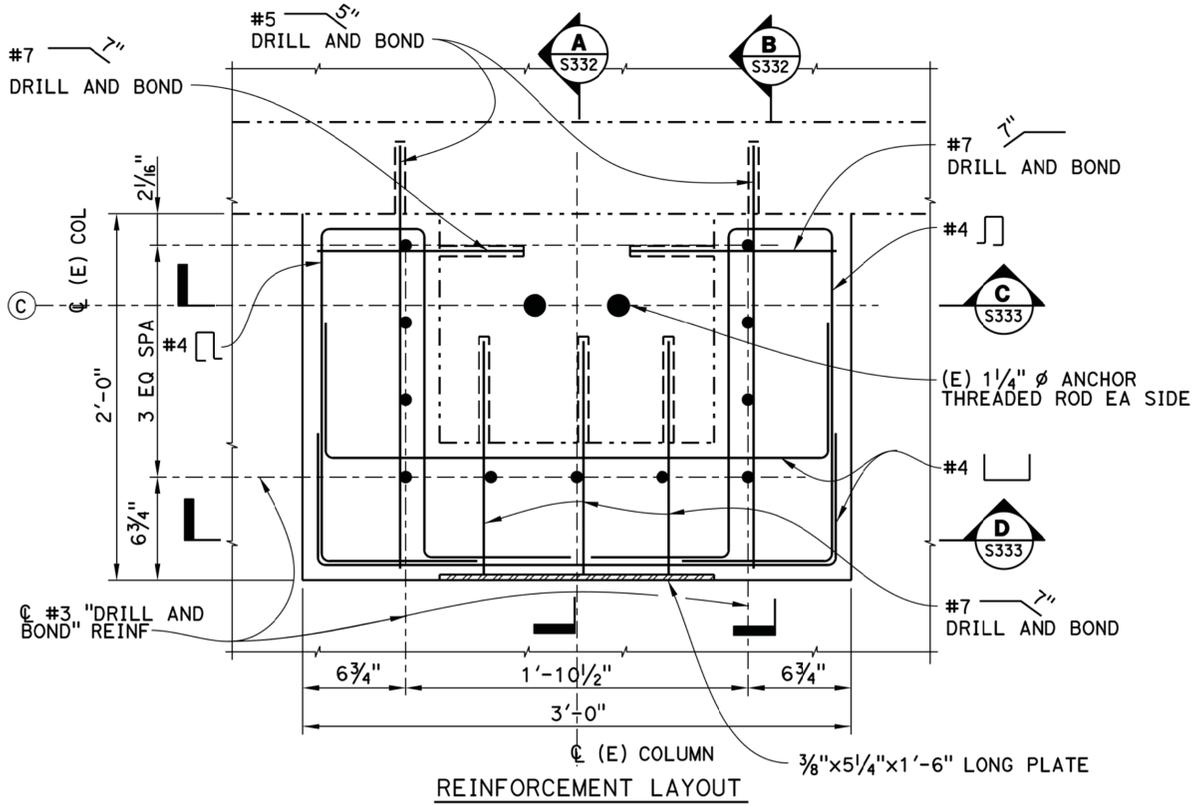
08/24/15
 PLANS APPROVAL DATE

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- NOTES:**
1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
 2. ROUGHEN EXISTING SLAB SURFACE TO 1/4" AMPLITUDE, TYP.
 3. BOND MATERIAL FOR "DRILL AND BOND" REINFORCEMENT SHALL BE HILTI HIT RE 500 OR APPROVED EQUAL.
 4. OD SHALL BE 2 1/2" (-)
ID SHALL BE 1 1/8".



DETAIL 16
2" = 1'-0"

2 REPLACED PER ADDENDUM NO. 2
DATED SEPTEMBER 18, 2015

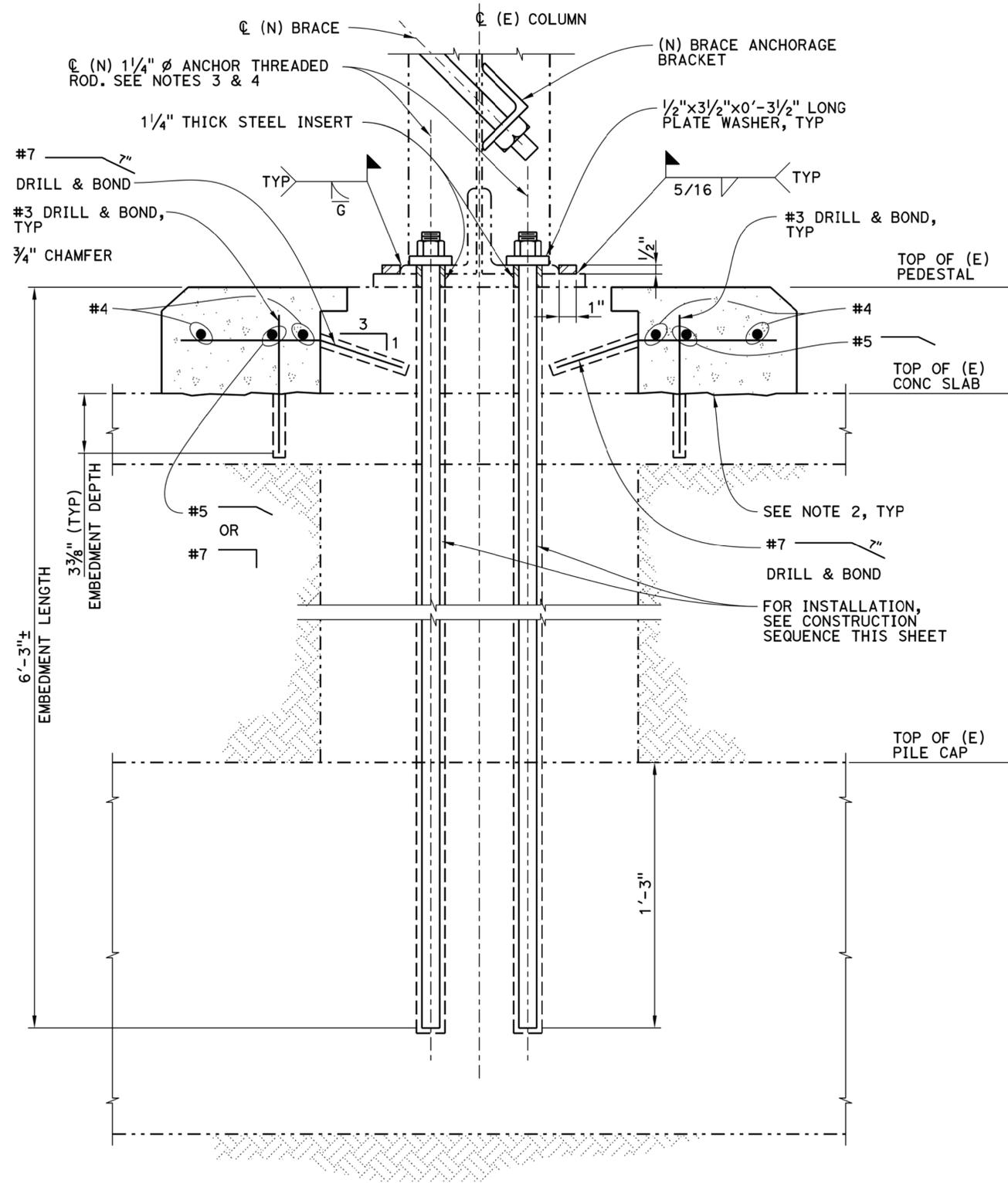
SEAN SAMUEL DESIGN OVERSIGHT 08/24/15 SIGN OFF DATE	MARK DATE DESCRIPTIONS REVISIONS BY CHD	DESIGN BY G. BENKOVICH CHECKED V. LOPEZ	DETAILS BY O. KURNOVSKAYA CHECKED G. BENKOVICH	QUANTITIES BY M. MOORE CHECKED G. BENKOVICH	PREPARED FOR THE BAY AREA TOLL AUTHORITY	R. DONIKIAN PROJECT ENGINEER	BRIDGE NO. POST MILES 2.0	BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT PEDESTAL ENLARGEMENT DETAIL @ COL. LINE C	SHEET S332
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 04 PROJECT NUMBER AND PHASE: 04-15000182	CONTRACT NO.: 04-01413	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES SHEET 116 OF 124

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	ALA	80	2.0	117	124

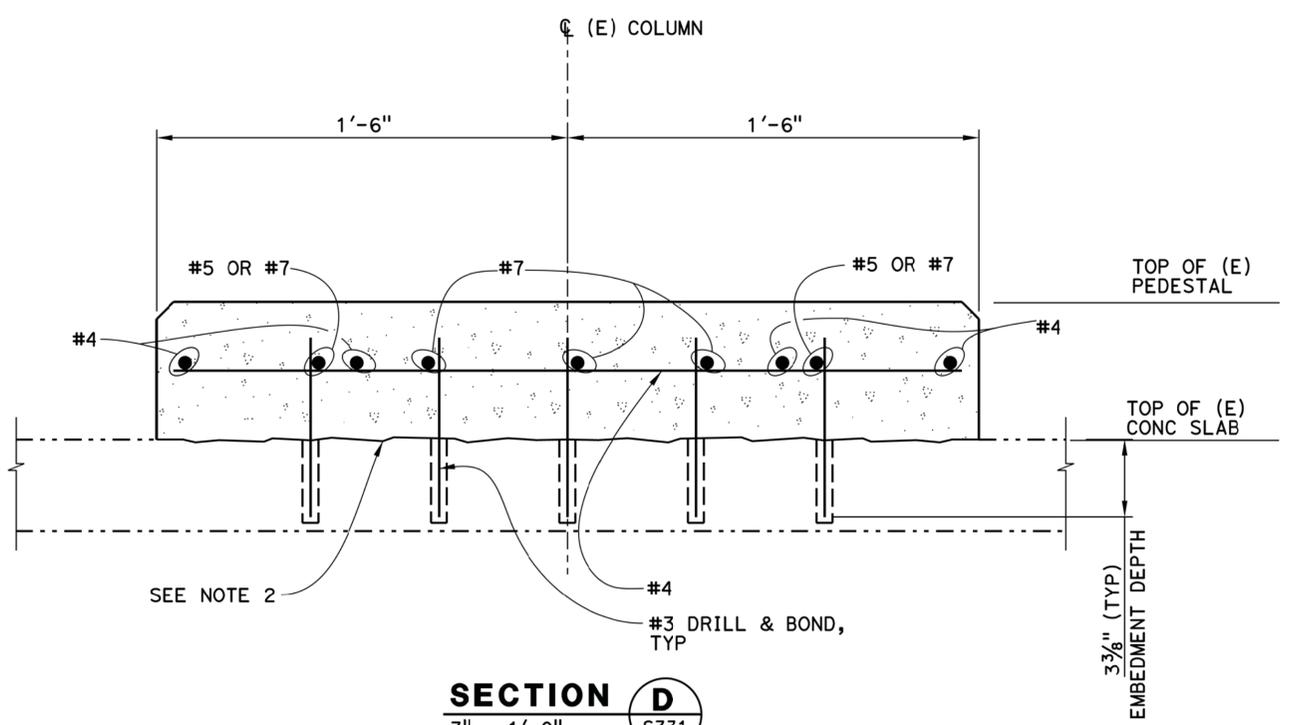
08/24/15
 PLANS APPROVAL DATE
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 Gregory Benkovich
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 No. C40518
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NEW ANCHOR THREADED RODS INSTALLATION

SECTION C
 3" = 1'-0" S332 S331



SECTION D
 3" = 1'-0" S332 S331

CONSTRUCTION SEQUENCE

INSTALLATION OF NEW ANCHOR RODS

1. FOLLOWING REMOVAL OF EXISTING BRACING ROD AND BRACE ANCHORAGE BRACKET, DRILL OUT EXISTING ANCHOR BOLTS AND INSTALL NEW ANCHOR THREADED RODS PER MANUFACTURER RECOMMENDATIONS.
2. ALLOW TIME PER MANUFACTURER SPECIFICATION FOR GROUT TO HARDEN BEFORE REPEATING PROCEDURE.
3. AFTER GROUT HAS HARDENED, INSTALL 1/4" THICK STEEL INSERT WITH TIGHT FIT, FOLLOWED BY 1/2" PLATE WASHER AND NUT INSTALLATION.

NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
2. ROUGHEN EXISTING SLAB SURFACE TO 1/4" AMPLITUDE, TYPICAL.
3. NEW ANCHOR THREADED RODS SHALL BE STEEL BOLTS PER ASTM A193 GRADE B7 "DRILL AND GROUT" TYPE OR APPROVED EQUAL, WITH NUT CONFORMING TO ASTM A194, GRADE 2H AND WASHER CONFORMING TO ASTM F436.
4. EACH 1/4" ANCHOR THREADED ROD SHALL BE TENSIONED TO 29 kips.
5. PRIOR TO CORING HOLES FOR ANCHOR THREADED RODS, CONTRACTOR SHALL SUBMIT BOLT INSTALLATION PROCEDURE FOR APPROVAL BY THE ENGINEER. ALL CORED HOLES SHALL BE ROUGHEN TO 1/8" AMPLITUDE OVER THE CONTACT AREA.
6. CORED HOLE FOR 1/4" ANCHOR THREADED RODS SHALL BE 2 1/2" DIA FILLED WITH CEMENTITIOUS, NON-METALLIC, NON-SHRINK GROUT WITH COMPRESSIVE STRENGTH OF 5000 psi.

2 REPLACED PER ADDENDUM NO. 2 DATED SEPTEMBER 18, 2015

SEAN SAMUEL DESIGN OVERSIGHT 08/24/15 SIGN OFF DATE	MARK DATE DESCRIPTIONS REVISIONS BY CHD	DESIGN BY G. BENKOVICH CHECKED V. LOPEZ DETAILS BY O. KURNOVSKAYA CHECKED G. BENKOVICH QUANTITIES BY M. MOORE CHECKED G. BENKOVICH	PREPARED FOR THE BAY AREA TOLL AUTHORITY	R. DONIKIAN PROJECT ENGINEER	BRIDGE NO POST MILES 2.0	BRIDGE YARD (IERBYS) SEISMIC AND RENOVATION PROJECT ANCHOR RODS & PEDESTAL ENLARGEMENT SECTIONS AND DETAILS	SHEET S333
DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 04 PROJECT NUMBER AND PHASE: 04-15000182	CONTRACT NO.: 04-01413	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES SHEET OF 117 124

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