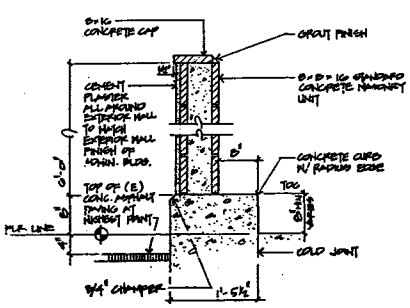
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	CC,Sol	80	13.5/14.1, 0.0/0.9	53	321

LICENSED ARCHITECT

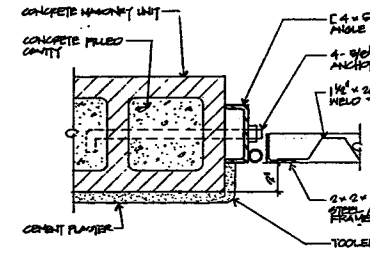
2-24-92
PLANS APPROVAL DATE

LICENSED ARCHITECT F. D. IGNACIO No. C-11818 Exp. 1-31-93 ARCHITECT STATE OF CALIFORNIA

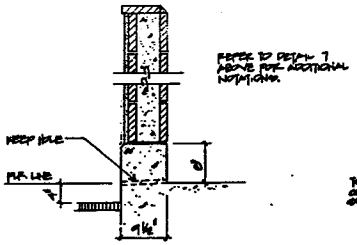
CALIFORNIA STATE FIRE MARSHAL
APPROVED
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Field approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by: 3-8-91



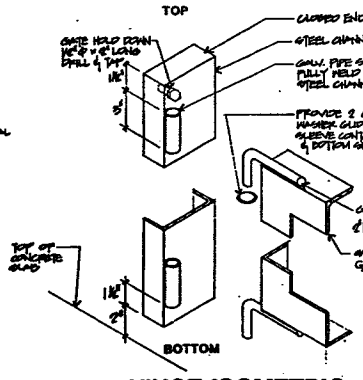
7 WALL SECTION
SCALE: 1" = 1'-0"



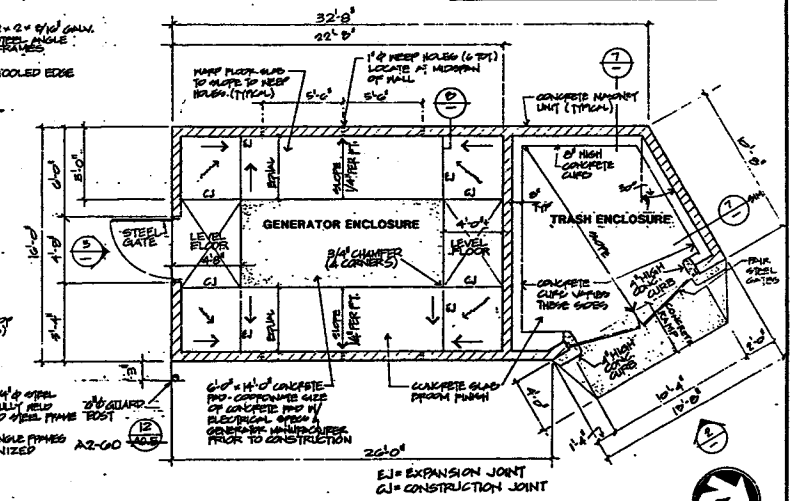
4 STEEL GATE DETAIL
SCALE: 3" = 1'-0"



8 WALL SECTION
SCALE: 1" = 1'-0"



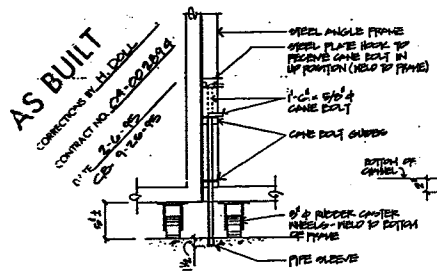
5 HINGE ISOMETRIC
SCALE: 3" = 1'-0"



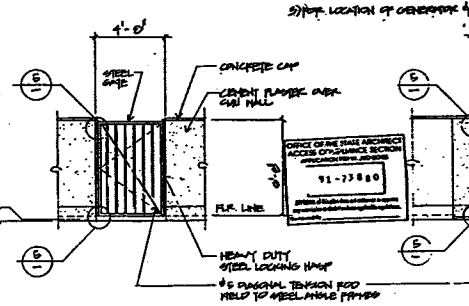
1 GENERATOR AND TRASH ENCLOSURE
SCALE: 1/4" = 1'-0"

NOTE: 1) FOR REINFORCEMENT OF CONCRETE MASONRY UNIT, CONCRETE FLOOR SLAB, & CONCRETE PAD, SEE STRUCTURAL DRAWINGS.
2) PROVIDE METAL EXPANSION SCREEDS @ 8'-0" OC MAX FOR CEMENT PLASTER WALL
3) FOR LOCATION OF GENERATOR & TRASH ENCLOSURE, SEE SHT M-5

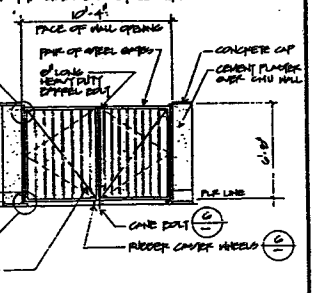
AS BUILT
CORRECTIONS BY M. DOLL
CONTRACT NO. CA-002591
DATE 9-6-95
CHD 9-26-95



6 CANE BOLT DETAIL
SCALE: 1/2" = 1'-0"



3 STEEL GATE ELEVATION
SCALE: 1/4" = 1'-0"



2 STEEL GATE ELEVATION
SCALE: 1/4" = 1'-0"

DESIGNED BY F. D. IGNACIO	CHECKED BY O. Alemi 3/4/91	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES ARCHITECTURAL DESIGN	BRIDGE NO. 23T6781	CARQUINEZ BRIDGE TOLL PLAZA IMPROVEMENTS	SHEET AO-4
DRAWN BY C. NAKAHARA	STRUCTURE REVIEW			POST MILE	GENERATOR AND TRASH ENCLOSURE	
			CU 04333 EA 002591	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

DS OSD 2180 (4/89)

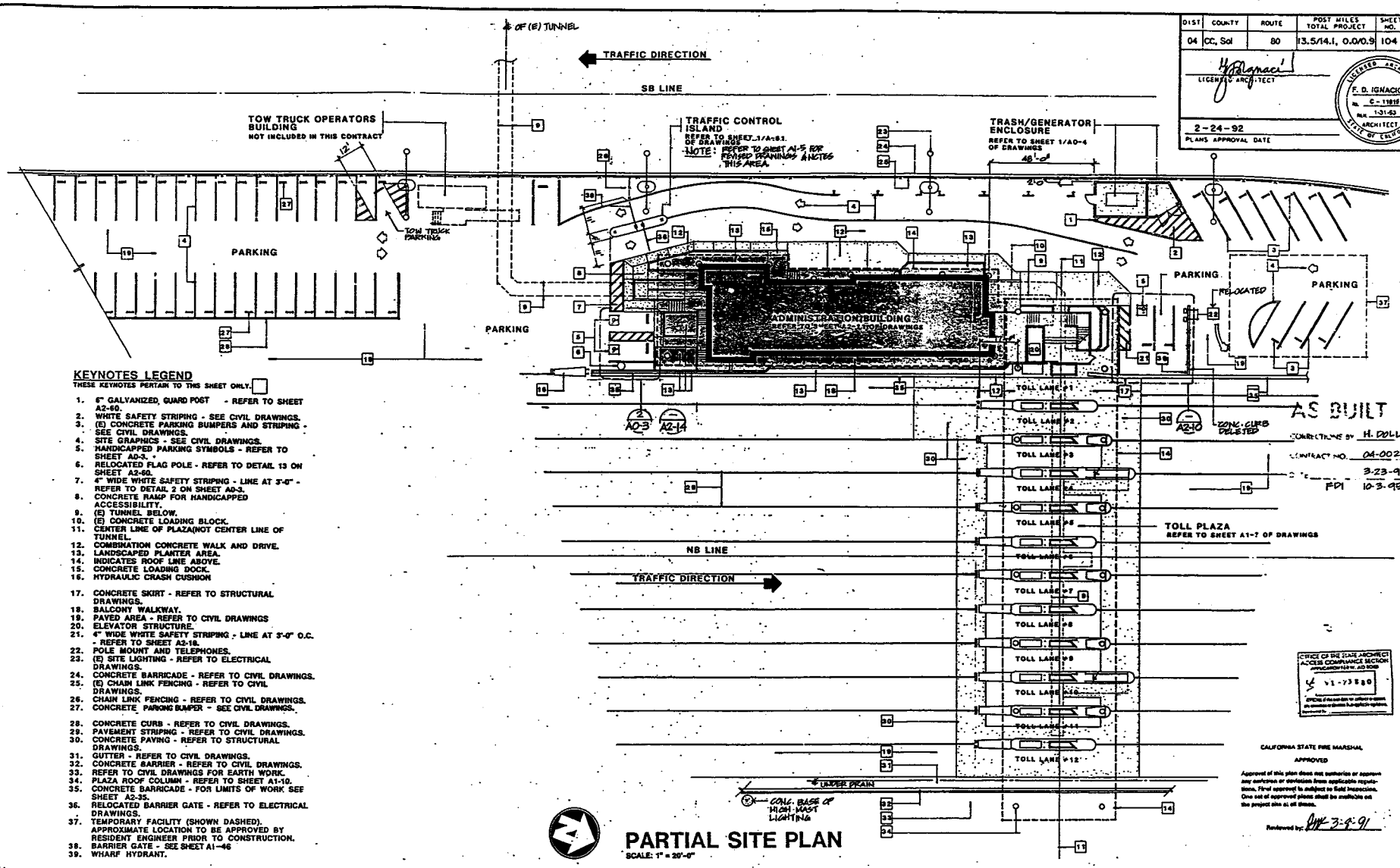
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	CC, Sol	80	13.5/14.1, 0.0/0.9	104	321

LICENSED ARCHITECT

F. D. IGNACIO
No. C-11819
Exp. 1-31-93
ARCHITECT
STATE OF CALIFORNIA

2-24-92
PLANS APPROVAL DATE



KEYNOTES LEGEND

THESE KEYNOTES PERTAIN TO THIS SHEET ONLY.

1. 6" GALVANIZED GUARD POST - REFER TO SHEET A2-60.
2. WHITE SAFETY STRIPING - SEE CIVIL DRAWINGS.
3. (E) CONCRETE PARKING BUMPERS AND STRIPING - SEE CIVIL DRAWINGS.
4. SITE GRAPHICS - SEE CIVIL DRAWINGS.
5. HANDICAPPED PARKING SYMBOLS - REFER TO SHEET A0-3.
6. RELOCATED FLAG POLE - REFER TO DETAIL 13 ON SHEET A2-60.
7. 4" WIDE WHITE SAFETY STRIPING - LINE AT 3'-0" - REFER TO DETAIL 2 ON SHEET A0-3.
8. CONCRETE RAMP FOR HANDICAPPED ACCESSIBILITY.
9. (E) TUNNEL BELOW.
10. (E) CONCRETE LOADING BLOCK.
11. CENTER LINE OF PLAZA(NOT CENTER LINE OF TUNNEL.
12. COMBINATION CONCRETE WALK AND DRIVE.
13. LANDSCAPED PLANTER AREA.
14. INDICATES ROOF LINE ABOVE.
15. CONCRETE LOADING DOCK.
16. HYDRAULIC CRASH CUSHION
17. CONCRETE SKIRT - REFER TO STRUCTURAL DRAWINGS.
18. BALCONY WALKWAY.
19. PAVED AREA - REFER TO CIVIL DRAWINGS
20. ELEVATOR STRUCTURE.
21. 4" WIDE WHITE SAFETY STRIPING - LINE AT 3'-0" O.C. - REFER TO SHEET A2-18.
22. POLE MOUNT AND TELEPHONES.
23. (E) SITE LIGHTING - REFER TO ELECTRICAL DRAWINGS.
24. CONCRETE BARRICADE - REFER TO CIVIL DRAWINGS.
25. (E) CHAIN LINK FENCING - REFER TO CIVIL DRAWINGS.
26. CHAIN LINK FENCING - REFER TO CIVIL DRAWINGS.
27. CONCRETE PARKING BUMPER - SEE CIVIL DRAWINGS.
28. CONCRETE CURB - REFER TO CIVIL DRAWINGS.
29. PAVEMENT STRIPING - REFER TO CIVIL DRAWINGS.
30. CONCRETE PAVING - REFER TO STRUCTURAL DRAWINGS.
31. GUTTER - REFER TO CIVIL DRAWINGS.
32. CONCRETE BARRIER - REFER TO CIVIL DRAWINGS.
33. REFER TO CIVIL DRAWINGS FOR EARTH WORK.
34. PLAZA ROOF COLUMN - REFER TO SHEET A1-10.
35. CONCRETE BARRICADE - FOR LIMITS OF WORK SEE SHEET A2-35.
36. RELOCATED BARRIER GATE - REFER TO ELECTRICAL DRAWINGS.
37. TEMPORARY FACILITY (SHOWN DASHED). APPROXIMATE LOCATION TO BE APPROVED BY RESIDENT ENGINEER PRIOR TO CONSTRUCTION.
38. BARRIER GATE - SEE SHEET A1-46
39. WHARF HYDRANT.

AS BUILT
CORRECTIONS BY H. DOLL
CONTRACT NO. 04-002844
DATE 3-23-95
FDI 10-3-95

OFFICE OF THE STATE ARCHITECT
ACCESS COMPLIANCE SECTION
APPLICATION NO. AD 5088
S 91-73580
SPECIAL inspection or other conditions
Reviewed by: [illegible]

CALIFORNIA STATE FIRE MARSHAL
APPROVED
Approval of this plan does not authorize or approve any exclusion or deviation from applicable regulations. Final approval is subject to field inspections. One set of approved plans shall be available on the project site at all times.
Reviewed by: [illegible] 3-9-91

PARTIAL SITE PLAN

SCALE: 1" = 20'-0"

DESIGNED CHRIS D. HANSEN	CHECKED BY [illegible] 3/4/91	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES ARCHITECTURAL DESIGN	BRIDGE NO. 23T5781	CARQUINEZ BRIDGE TOLL PLAZA IMPROVEMENTS
DRAWN BY CHRIS D. HANSEN	STRUCTURE REVIEW			POST MILE	ADMINISTRATION BUILDING — PARTIAL SITE PLAN
			CU 04333 EA 002891	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET A2-2

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

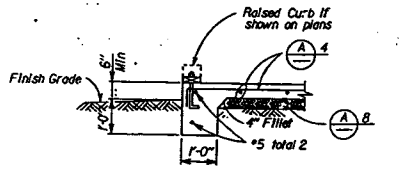
DS OSD 2180 (4/89)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	CC,Sol	80	13.5/14.1,0.0/0.9	169	321

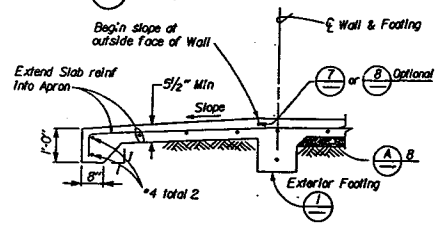
REGISTERED ENGINEER-CIVIL

M.J. Estandiary
C 040660
3-31-91
CIVIL
STATE OF CALIFORNIA

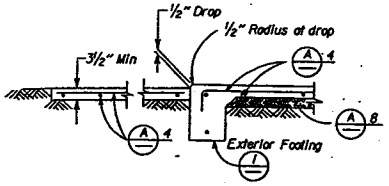
2-24-92
PLANS APPROVAL DATE



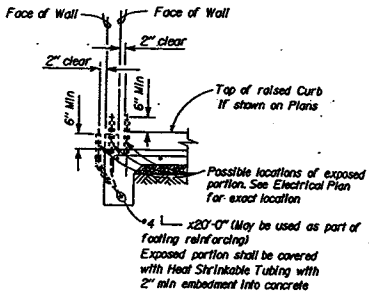
1 EXTERIOR FOOTING



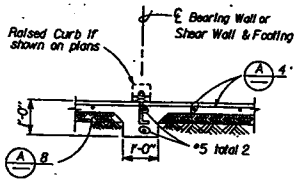
2 DRIVEWAY APRON



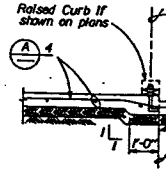
3 WALKWAY APRON



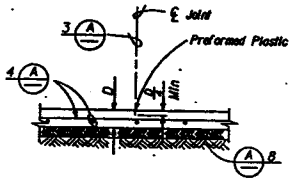
4 GROUND BAR DETAIL



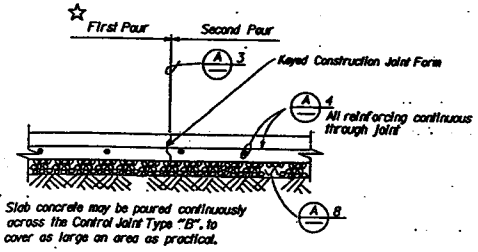
5 INTERIOR FOOTING



6 DROP SLAB AT NON-BEARING WALL

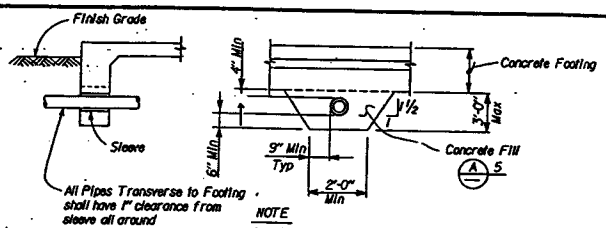


7 CONTROL JOINT TYPE "A"



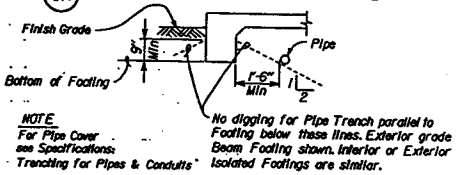
Slab concrete may be poured continuously across the Control Joint Type "B", to cover as large an area as practical.

8 CONTROL JOINT TYPE "B" OR CONSTRUCTION JOINT



NOTE
No pipes permitted beneath Interior or Exterior Isolated Footings

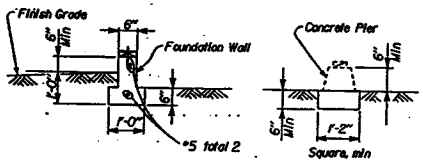
9A PIPE DETAILS THROUGH FOOTING



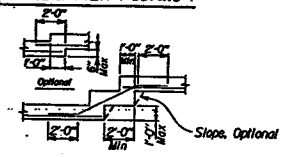
NOTE
For Pipe Cover see Specifications: Trenching for Pipes & Conduits

No digging for Pipe Trench parallel to Footing below these lines. Exterior grade Beam Footing shown. Interior or Exterior Isolated Footings are similar.

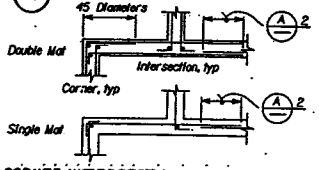
9 PIPE DETAILS PARALLEL TO FOOTING



10 WALL & PIER FOOTING



11 STEPPED FOOTING



12 CORNER/INTERSECTION REINF SPLICE, TYPICAL

A CONCRETE NOTES

1. The following minimum concrete cover shall be provided for reinforcement.

	Minimum Cover
A. Concrete cast against and permanently exposed to earth	3"
B. Concrete exposed to earth or weather but cast in forms	
No.6 thru No.18 bars	2"
No.5 bar, W31 or D31 Wire and smaller	1½"
C. Concrete not exposed to weather or in contact with ground	
Slabs, Walls and Joists:	
No.14 and No.18 Bar	1½"
No.11 and smaller	¾"
Beams and Columns:	
Primary Reinforcement	2"
Ties, Stirrups and Spirals	1½"
D. Concrete cast on ground (Slab only)	Note 4

2. Splices in continuous reinforcement as in Walls, Wall Footings, etc. No. 8 or smaller shall have a lap of 45 diameters and the splices in adjacent bars shall not be less than 5'-0" apart. Vertical wall bars shall be spliced at or near Floor Lines.
   Continuous Bars in spandrels, Wall Beams, etc. shall lap Top Bars at center of span and Bottom Bars at supports.
3. All Construction and Control Joint details and locations shall be approved by the Engineer. Spacing of the Slab Joints as shown in Detail 7 or 8 shall not exceed 30'.
4.

Slab Thickness, D	Reinforcement
3 ½"	*3 @ 18 Each way, place in center of Slab
5 ½"	*4 @ 18 Each way, place in center of Slab

5. Concrete fill is to be placed before Footing is poured. Make the same width as the Footing and the full width of the Pipe trench. Concrete fill not required for pipes less than 2" Ø or for pipes more than 3'-0" below bottom of footing.
6. All walls shall be anchored to footings. See other Structural Plans for details.
7. See Mechanical and Architectural Plans for size and locations of pipe, vents, ducts and other similar openings. See Electrical Plans for conduits and outlet boxes in floors, walls, etc.
8. Place 4" of free draining granular material under slabs.

NO CORRECTIONS THIS SHEET
AS BUILT
CORRECTIONS BY
CONTRACT NO 14-002374
DATE 4-95
1-17-96

NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

FILE NO. XS-25-1	DESIGN BY	CHECKED	APPROVED
DRAWING DATE 12-89	DETAILS BY	CHECKED	DESIGN SUPERVISOR
	SUBMITTED BY DESIGN ENGINEER		

STANDARD DRAWING

◊ Sheet reorganized and input into C.A.D.D.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURAL DESIGN

BRIDGE NO. 23T5781
POST MILE

CARQUINEZ BRIDGE TOLL PLAZA IMPROVEMENTS

CONCRETE STANDARD

SHEET STO-2

RF=TR4VAX::ZGA3:[16],3]CONCSTD.DGN;1

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 04333
EA 002891

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

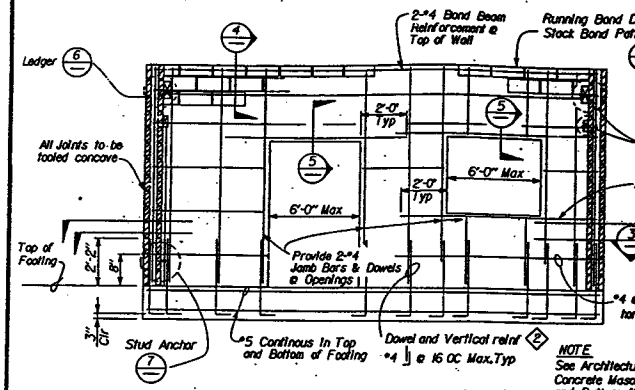
SHEET OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	CC,Sol	80	13.5/14.1,0.0/0.9	170	321

REGISTERED CIVIL ENGINEER

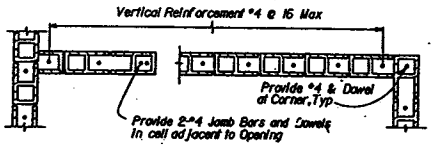
REGISTERED PROFESSIONAL ENGINEER M.J. Estandian No. C 040560 Exp. 3-31-91 CIVIL STATE OF CALIFORNIA

2-24-92
PLANS APPROVAL DATE



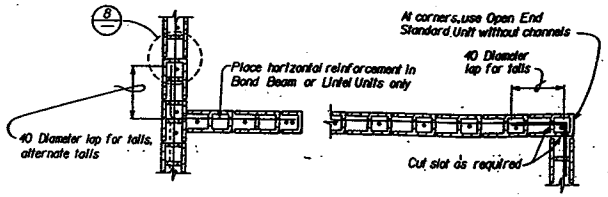
NOTE
See Architectural Sheets for Concrete Masonry Unit size and Pattern (8x8x16 Unit shown)

1 ELEVATION
No Scale

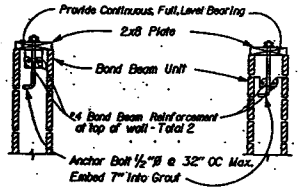


NOTE
Open End Units shown,Closed End Units may be used for Running Bond Pattern

2 SECTION BETWEEN BOND BEAM
No Scale



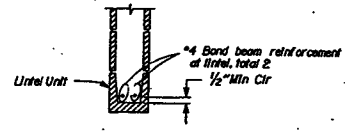
3 SECTION AT BOND BEAM
No Scale



4A 8x8x16 UNIT
No Scale

4B 8x4x16 UNIT
No Scale

4 PLATE DETAIL



5 LINTEL DETAIL
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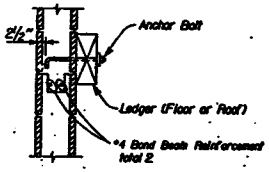
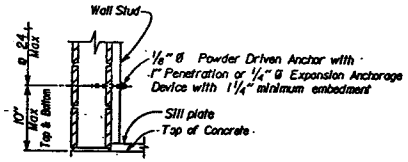
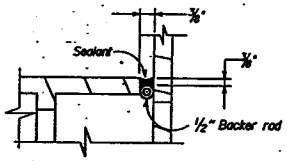


6 BOND BEAM REINF AT LEDGER DETAIL
No Scale



7 STUD ANCHOR DETAIL
No Scale



9 JOINT SEAL
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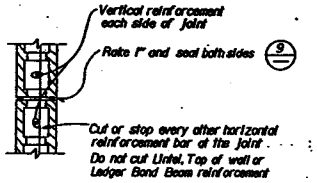
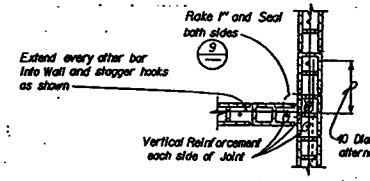


8 CONTROL JOINT DETAIL
No Scale



10 CONTROL JOINT AT WALL INTERSECTION
No Scale

A REINFORCED CONCRETE MASONRY UNIT NOTES

1. All Walls shown on plans shall be solid grouted.
2. Stack Bond requires open end Bond Beam Units throughout.
3. All vertical reinforcement shall be centered in Unit. The minimum coverage of other reinforcement from the exposed surface of Concrete Masonry Unit shall be 2".
4. Reinforcement splices shall be as follows:
   A. Length of a lap splice for a No.7 or smaller bar shall be 40 diameters.
   B. Lintel lap splices, if necessary, shall be at midspan for top bars and beyond support for bottom bars.
5. There shall be a minimum 8" wall return at any Jamb adjacent to a corner.
6. Dowels shall be at least the same size and spacing as wall reinforcement.
7. All Anchors, Bolts, Regiets, Dowels and other miscellaneous items to be cast into the wall, shall be firmly secured in place before grout is poured.
8. Ceiling Ledger shall be anchored with 1/4" diameter Expansion Anchorage Device installed at 32" OC maximum spacing. Expansion Anchorage Devices shall have 2" minimum distance to any edge of the masonry unit. Minimum embedment measured from the outside face of the unit shall be 2 1/2".
9. Shoring for Concrete Masonry Unit Lintels shall remain in place a minimum of 15 days after the wall has been completed.
10. Pipes shall not be embedded in any Masonry Wall except when shown on plans or as approved by the Engineer.
11. Electrical Conduit, Panels or Fixtures may be placed in cells with the following restrictions:
    A. The Conduits shall not interfere with or displace the reinforcing steel.
    B. Conduits shall not be placed in such a congested manner as to prevent the complete filling of the cells with grout.
    C. Horizontal run of 3/4" maximum size conduit may be placed in a bond beam unit course that does not have horizontal reinforcing steel.
    D. Recesses for Electrical Panels or Fixtures shall be framed and have similar reinforcement as Doors and Windows.
12. Equivalent details may be submitted for approval.
13. See Architectural and Mechanical drawings for offsets, sizes and locations of ducts, wall openings, vents and other details not shown on Structural sheets.

NO CORRECTIONS THIS SHEET
AS BUILT
CORRECTIONS BY J. Collins
CONTRACT NO. 04-002894
DATE 4/095
CMP 1-19-96

NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

STANDARD DRAWING

FILE NO. XS-25-2	DESIGN BY	CHECKED	APPROVED
DRAWING DATE 2-90	DETAILS BY	CHECKED	DESIGN SUPERVISOR
	SUBMITTED BY DESIGN ENGINEER		

◊ Sheet reorganized and input into CADD
◊ Change in reinf size or spacing

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURAL DESIGN

BRIDGE NO. 23T5781
POST MILE

CARQUINEZ BRIDGE TOLL PLAZA IMPROVEMENTS
CONCRETE MASONRY UNIT STANDARD

SHEET STO-3

RF=TR4VAX::ZGA3:[161,313MASONOL.DGN;1

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 04333
EA 002891

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET OF

* Datum elevation 164.57' was changed by CCO # 24 to 164.76'

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	CC, Sol	80	13.5/14.1, 0.0/0.9	171	321

REGISTERED ENGINEER-CIVIL

N.J. Esfandiary
No. C 040660
Exp. 3-31-91
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

2-24-92
PLANS APPROVAL DATE

(A) DESIGN NOTES

1. DESIGN: 1988 EDITION OF THE UNIFORM BUILDING CODE AS AMENDED BY THE 1989 CALIFORNIA STATE AMENDMENTS, CALIFORNIA BUILDING CODE, TITLE 24, PART 2, CALIFORNIA CODE OF REGULATIONS.

2. LOADS:

DEAD LOAD:	
ROOF	10 PSF
FLOOR	15 PSF
LIVE LOAD:	
ROOF	20 PSF
FLOOR	40 PSF
BALCONY	100 PSF
LOADING DOCK	100 PSF
WIND SPEED:	80 MPH
WIND EXPOSURE:	C
SEISMIC ZONE:	4

3. PREENGINEERED ROOF TRUSS

SEE SHEET ST2-21

4. TIMBER: SEE SHEETS ST0-1A AND ST0-1B FOR SAWN LUMBER AND GLULAM BEAM DESIGN INFORMATION.

5. REINFORCED CONCRETE: (Strength design)

SEE SHEET ST0-3 FOR ADDITIONAL INFORMATION.

f'c = 3,250 psi
fy = 60,000 psi

6 REINFORCED MASONRY: (Reinforced hollow concrete block. Working stress design)

f'm = 1,500 psi
fy = 60,000 psi

6. STRUCTURAL STEEL: (Working stress design)

fy (Structural Tubing) = 46,000 psi
fy (All other steel) = 36,000 psi

7. FOUNDATION DATA:

SOIL REPORT DATED MAY 7, 1990
ALLOWABLE SOIL BEARING PRESSURES:

1. With subexcavation and select backfill over existing fill material — 2000psf
2. On existing sandstone — 6000psf

SOIL TYPE; See Log of Test Borings sheet ST0-6

AS BUILT
CORRECTIONS BY J. Collins
CONTRACT NO. 04-002894
DATE 4-95
Cmp 1-19-96

DESIGN	BY Anthony Gugino 11/90	CHECKED Joe Esfandiari 11/90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURAL DESIGN	BRIDGE NO. 23T5781 POST MILE	CARQUINEZ BRIDGE TOLL PLAZA IMPROVEMENTS DESIGN NOTES	SHEET ST0-4
DETAILS	BY Anthony Gugino 11/90	CHECKED Joe Esfandiari 11/90					
QUANTITIES	BY	CHECKED					

DS OSD 2139A (4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 04333
EA 002891

DISREGARD PRINTS BEARING EARLIER REVISION DATES → 4/5/91

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	CC,Sol	80	13.5/14.1,0.0/0.9	172	321

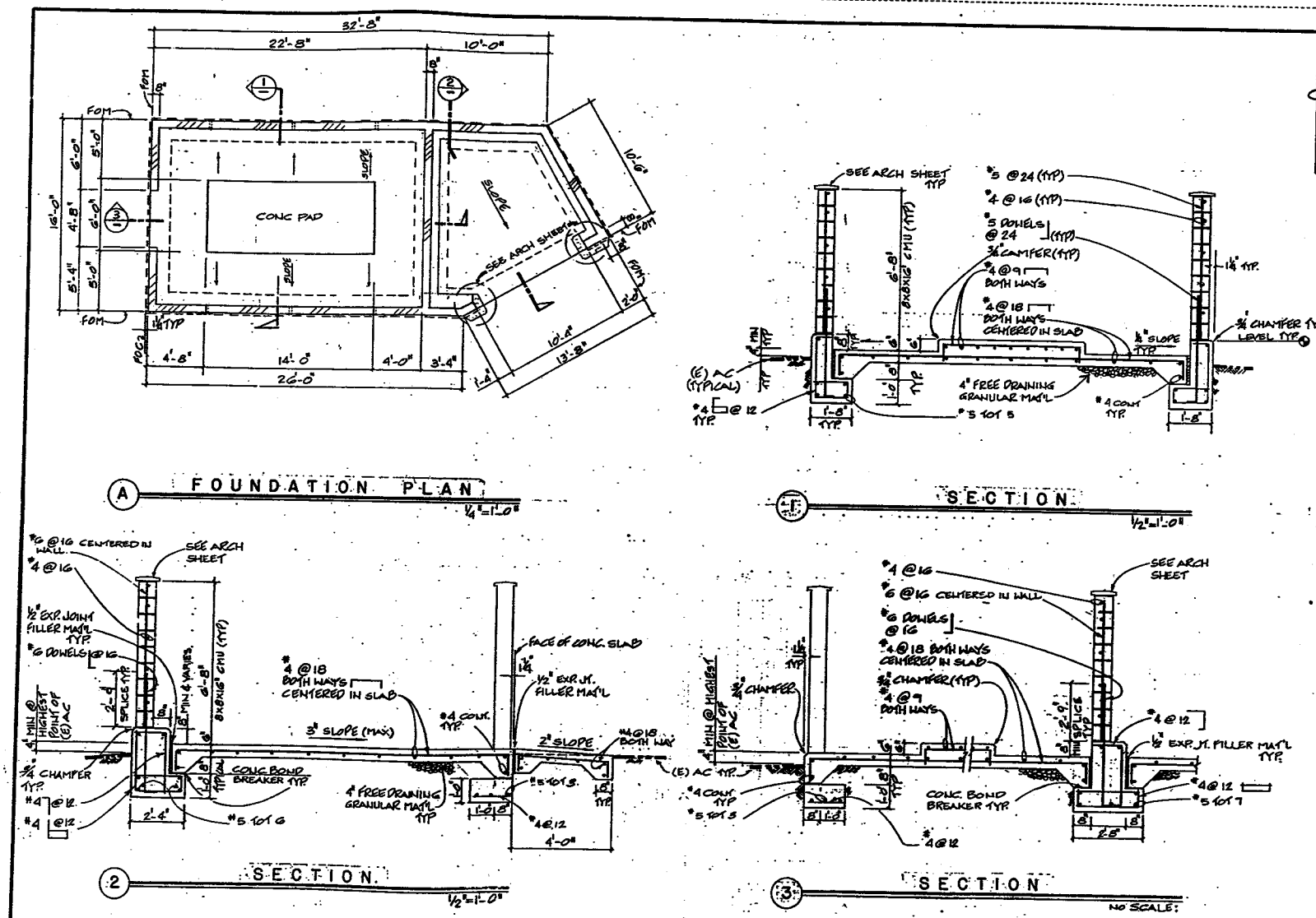
REGISTERED ENGINEER-CIVIL

REGISTERED PROFESSIONAL ENGINEER
N.J. Estandiary
No. C040660
Exp. 3-31-91
CIVIL
STATE OF CALIFORNIA

2-24-92
PLANS APPROVAL DATE

NOTE:

1. GENERATOR ENCLOSURE WALLS SHALL BE CONSTRUCTED AFTER INSTALLATION OF GENERATOR.



A FOUNDATION PLAN 1/4"=1'-0"

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

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

3 SECTION NO SCALE:

CORRECTIONS THIS SHEET

AS BUILT

CORRECTIONS BY J. Collins

CONTRACT NO. 04-002894

DATE 4/95

Cmp 1-19-96

DESIGN	Joe Estandiary 11/90	CHECKED Anthony Gugino 11/90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURAL DESIGN	BRIDGE NO. 23T5781 POST MILE
DETAILS	Hamazak Aghekian	CHECKED Anthony Gugino 11/90			CARQUINEZ BRIDGE TOLL PLAZA IMPROVEMENTS
QUANTITIES		CHECKED			TRASH BIN AND GENERATOR ENCLOSURE DETAILS

SHEET STO-5

DS OSD 2139A (4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 04333
EA 002891

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

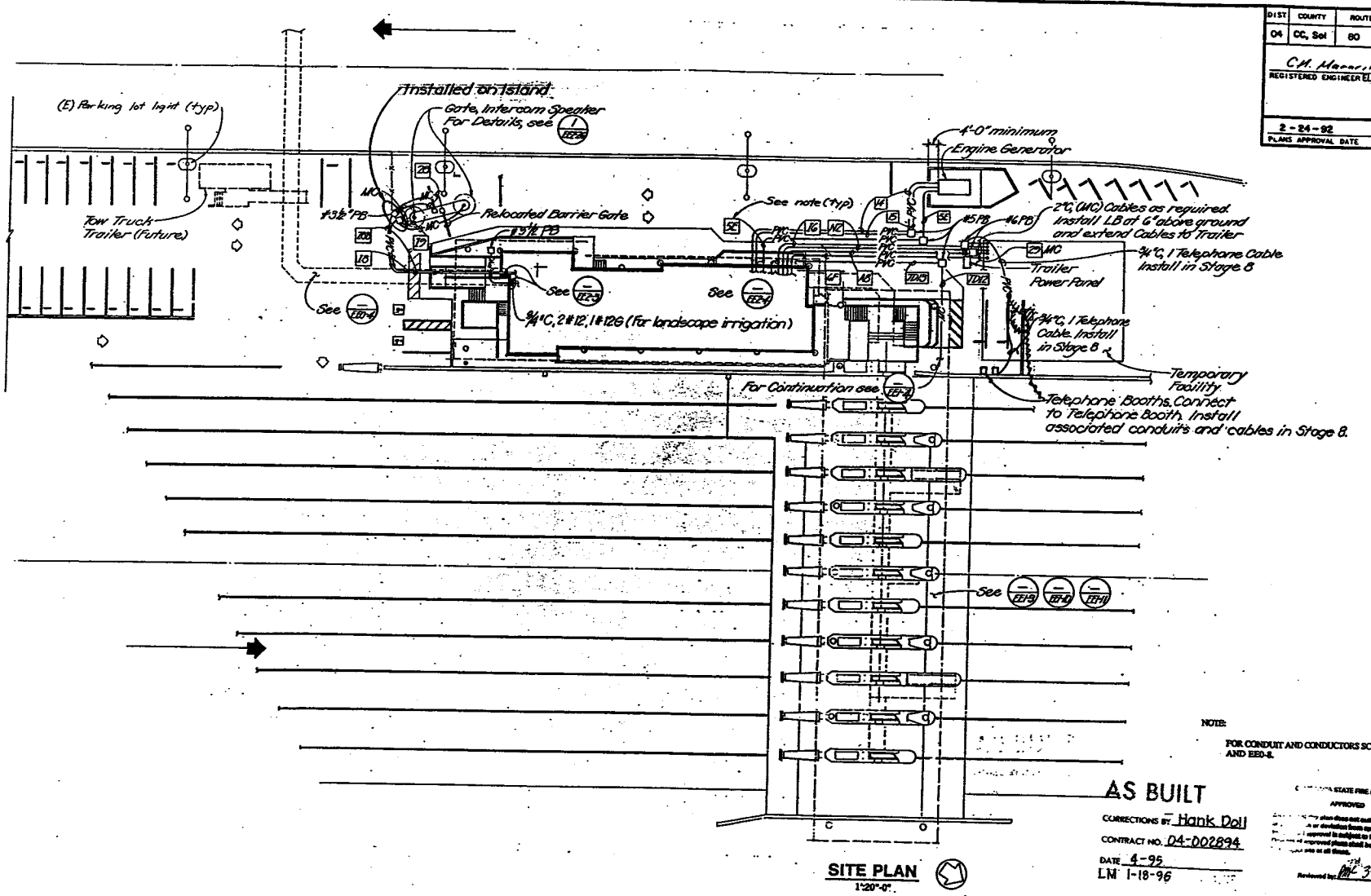
SHEET OF

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	CC, Sol	80	13.5/14.1, 0.0/0.9	266	321

C.H. Manoril
REGISTERED ENGINEER ELECTRICAL

REGISTERED PROFESSIONAL ENGINEER C.H. MANORIL No. 012801 Exp. 9-30-92 ELECT. STATE OF CALIFORNIA

2-24-92
PLANS APPROVAL DATE



NOTE:

FOR CONDUIT AND CONDUCTORS SCHEDULE SEE SHEETS EE0-7 AND EE0-8.

AS BUILT
CORRECTIONS BY Hank Doll
CONTRACT NO. 04-002894
DATE 4-95
LM 1-18-96

STATE FIRE MARSHAL
APPROVED
Reviewed by: MC 3-9-91

SITE PLAN
1"20'-0"

DESIGN	C.H. Manoril	Ronald Shumbler
DETAILS	Florence K. Meza	C.H. Manoril
QUANTITIES	C.H. Manoril	Ronald Shumbler

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
ELECTRICAL-MECHANICAL-SANITARY DESIGN

CLE04333
EA 002891

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY

BRIDGE NO. 23T5781
POST MILE

CARQUINEZ BRIDGE TOLL PLAZA IMPROVEMENT

MODIFIED ELECTRICAL SITE PLAN

SHEET EE0-3

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET OF

DS 050 2171 -E (5/89)