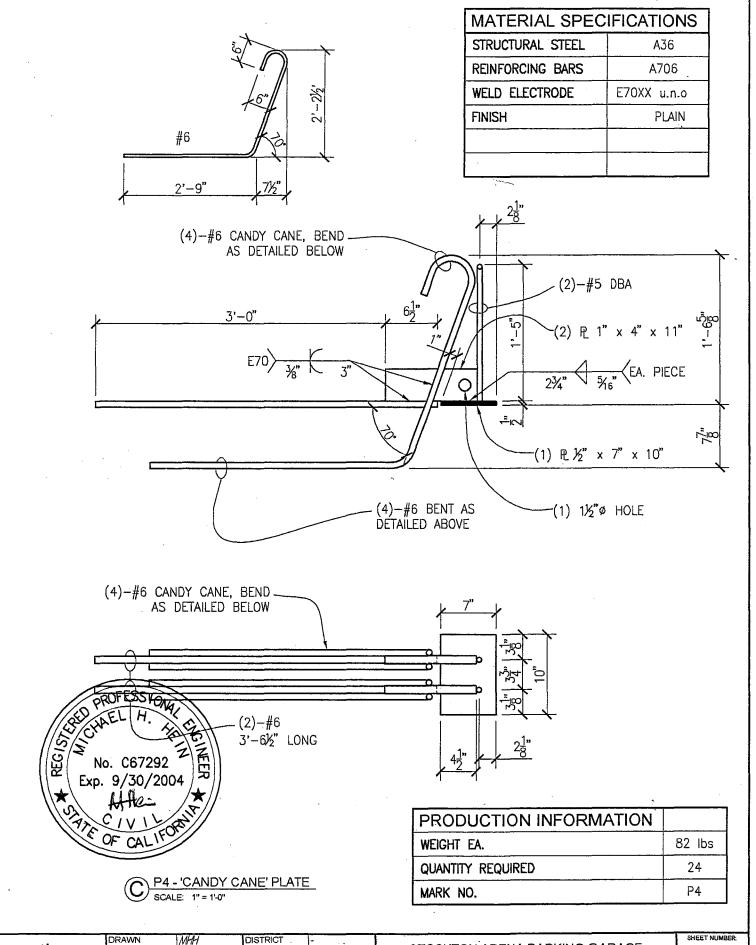


DRAWING REVISIONS

DESCRIPTION





Con-Fab California Corporation

 1910 E. Lathrop Road
 Lathrop, CA 95330

 Telephone (209) 249-4700
 Fax (209) 249-4725

DRAWN MHH DISTRICT CHECKED ACL COUNTY SAN JOAQUIN
JOB NUMBER 04-560 ROUTE DATE AUGUST 2004 BRIDGE NO. CONTRACT NO. POST MILE -

STOCKTON ARENA PARKING GARAGE
PLATE DETAILS P2, P3 & P4

PL1.0

ARENA PARKING STRUCTURE

PERMIT SET

for

THE CITY OF STOCKTON

310 WEST FREMONT
PERMIT #04-5426

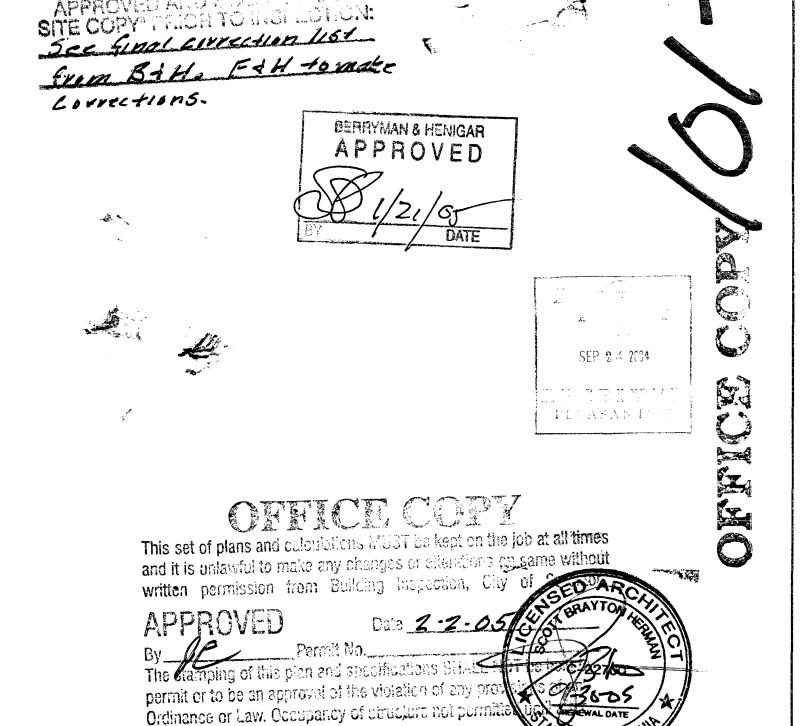
SEPTEMBER 21, 2004





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THESE PLANS ARE FOR THE 'SHELL ONLY' PERMIT OF THE OCCUPANCY OF NON-PARKING AREAS (i.e. COMMERCIAL AREA LOCATED ON LEVEL P-1). THE OCCUPANCY OF THE NON-PARKING AREAS WILL NOT OCCUPANTIL AFTER THE COMPLETION OF TENANT INPROVEMENTS, WHICH WILL BE THE SUBJECT OF FUTURE SEPARATE SUBMITTALS UNDER SEPARATE PERMITS.

final approval.

STOCKTON **ARENA PARKING STRUCTURE**

CALIFORNIA STOCKTON.

OWNER: City of Stockton

DESIGN BUILDER F&H Construction 4945 Waterloo Road

Stockton, California 95215

209. 931. 3738

CONSULTANTS:

Architect - Parking Consultant HNA / Pacific 61 Sea Breeze Avenue Rancho Palos Verdes, California 90275 310, 544, 8670

Design Architect
Wenell Mattheis Bowe 246 E. Main Street Stockton, California 95202 209. 944. 9110

Structural Engineer
Jessen-Wright Structural Engineers 113 West 8th Avenue, Suite A Chico, California 95926

530. 894. 5345 Civil Engineer
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Stockton, California 95204

209. 943. 2021 Plumbing Designer - Design/Builde HRM Plumbing 3650 Wilcox Road

Stockton, California 95215 209. 931. 9650 Electrical Designer - Design/Builder Collins Electrical

611 W. Fremont Street Stockton, California 92503 209. 466. 3691

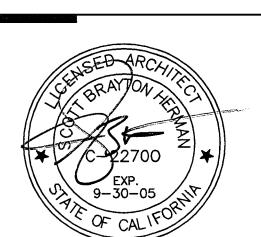
Mechanical Designer - Design/Builder Comfort Air 1607 Tumpike Road Stockton, California 95201 209. 466. 4601

CONST. DOCUMENTS

REVISIONS:

9/21/04 PERMIT SET 8/18/04 PLANCHECK SET

7/12/04 FOUNDATION ONLY SET



SHEET INDEX PROJECT DATA PROJECT NOTES

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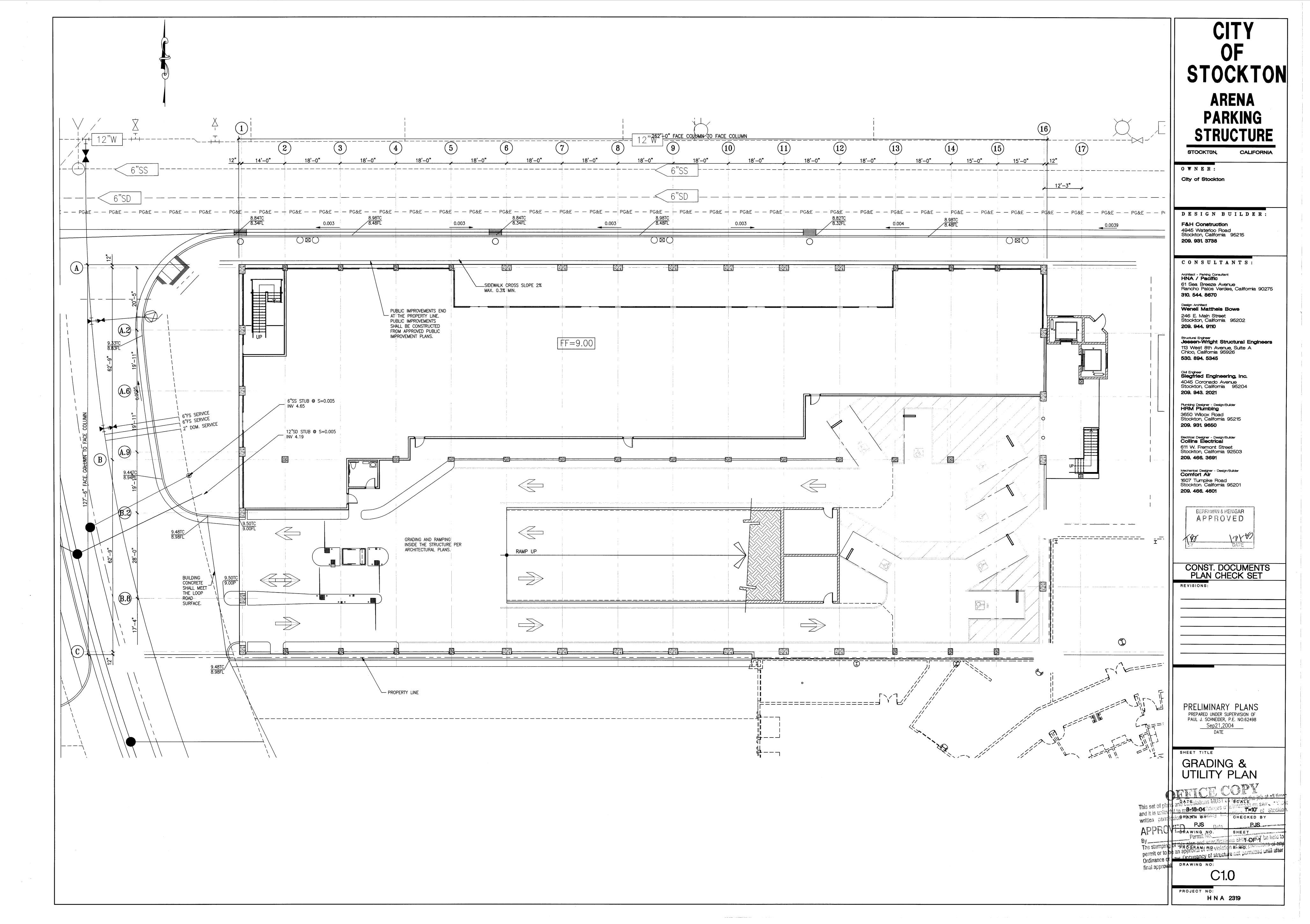
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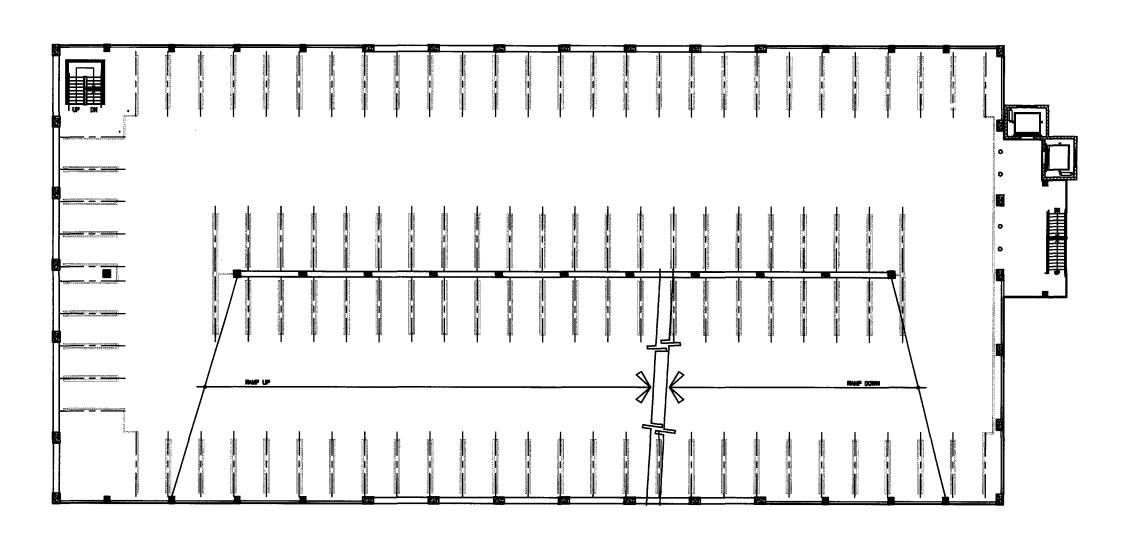
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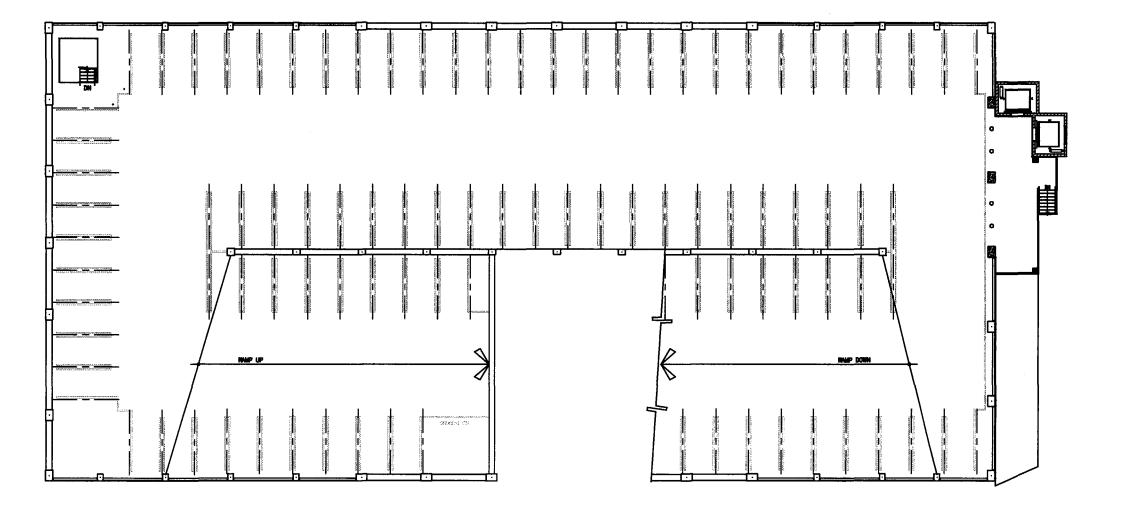
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PROJECT NO: HNA 2320

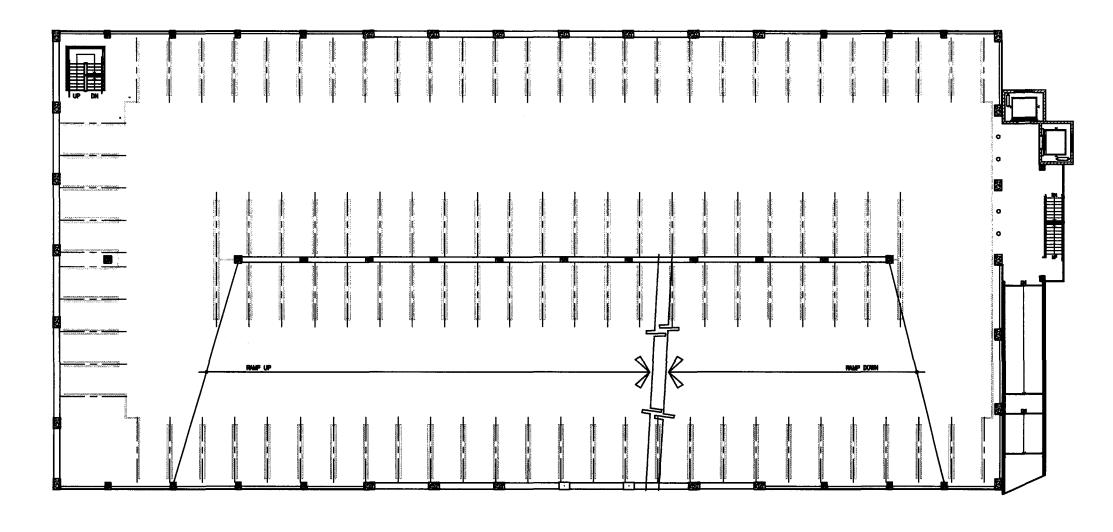




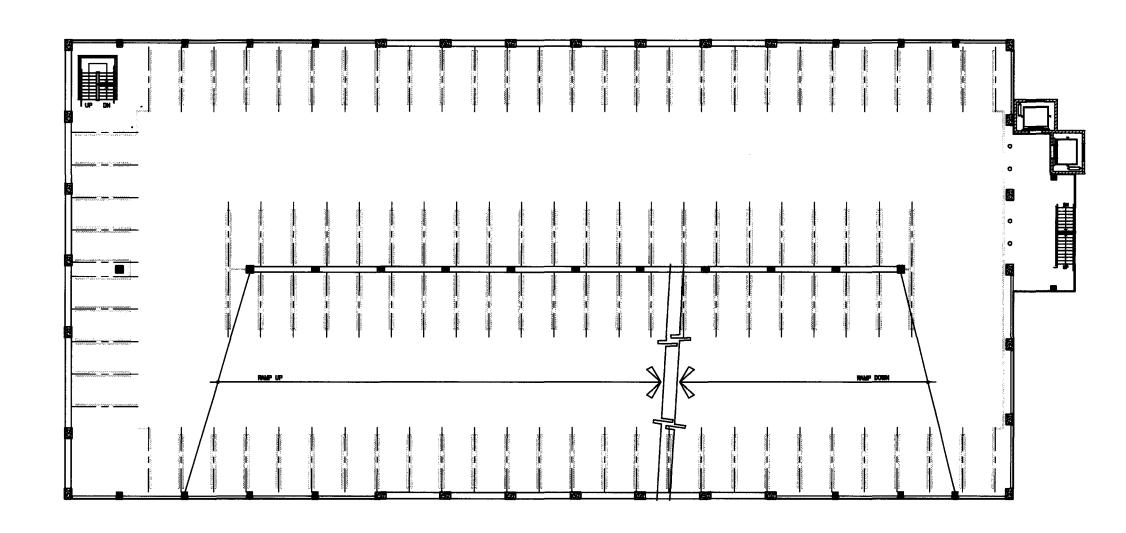
LEVEL P-4 FLOOR PLAN



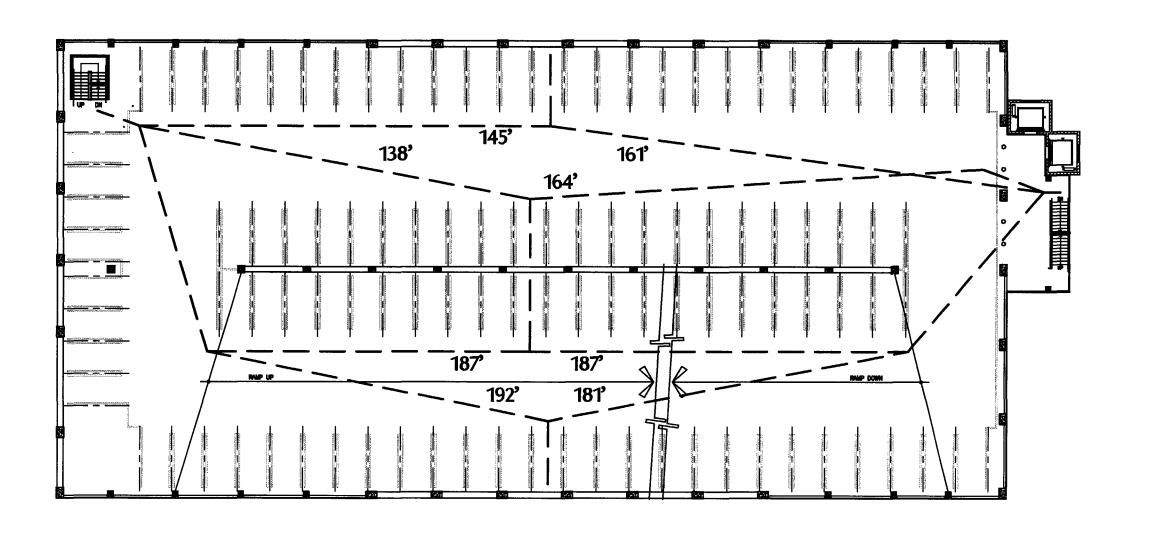
LEVEL P-7 FLOOR PLAN



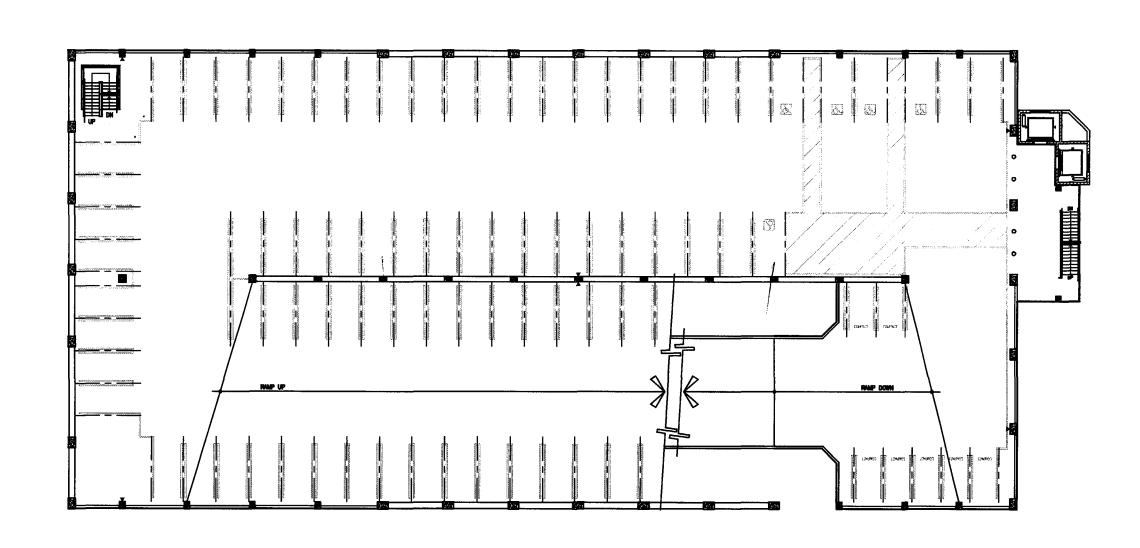
LEVEL P-6 FLOOR PLAN



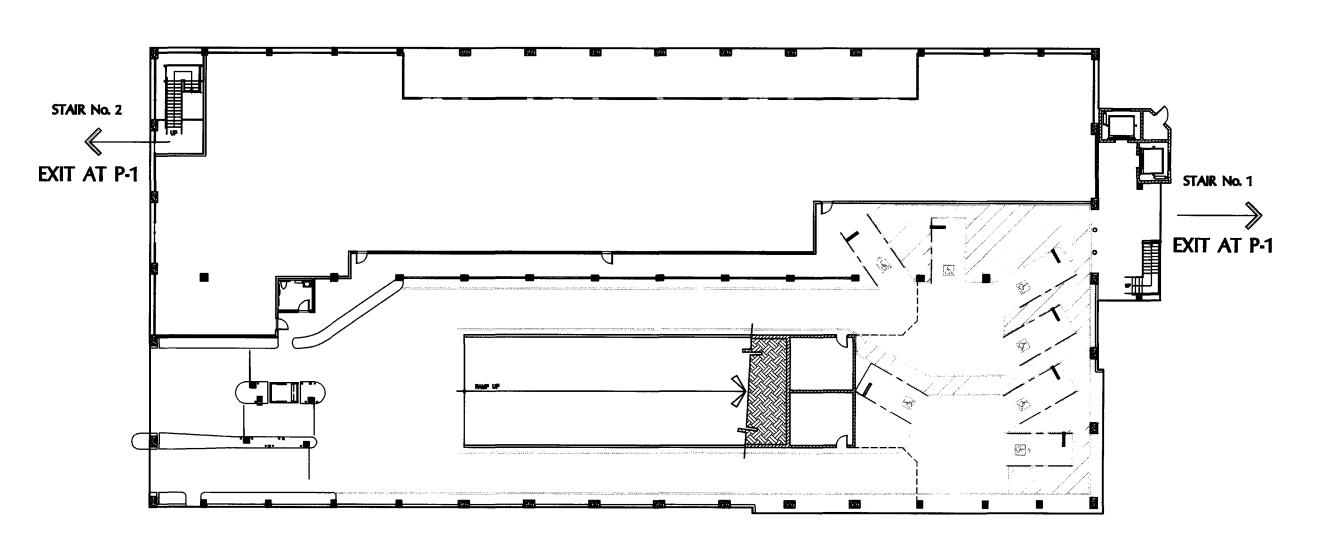
LEVEL P-5 FLOOR PLAN



LEVEL P-3 FLOOR PLAN



LEVEL P-2 FLOOR PLAN



LEVEL P-1 FLOOR PLAN



NATURAL VENTILATION SUMMARY

CALCULATIONS FOR OPENINGS TO PROVIDE NATURAL VENTILATION

C.B.C. Sec. 311.9.2.2

For natural ventilation purposes, the exterior side of structure shall have uniformly distributed openings on two or more sides. The area of such openings in exterior walls on a tier must be at least 20 percent of the total perimeter wall area of each tier. The aggregate length of openings considered to be providing natural ventilation shall constitute a minimum of 40 percent of the perimeter of the tier.

257 L.F.

LEVEL P-1

S-4 OCCUPANCY PERIMETER - LEVEL P-1 = REQUIRED PERIMETER LENGTH (40%) or (682.00 L.f. x .40) =TOTAL DISTRIBUTED LENGTH —

273 L.F [37.68% OF 682 L.F.]

P-1 TIER HEIGHT (average) = TOTAL PERIMETER WALL AREA (average) = (682' x 13.50') =

13.50' 9,207 sq.ft

311.60 L.F.

682 L.I

TOTAL REQUIRED OPENINGS (20%) or $(9,207 \times .20) =$ TOTAL OPENINGS PROVIDED - 2,236.95 sq.ft.

1,841.40 sq.ft. [24.30% OF 9,207 sq.ft.]

TYPICAL TIER (calculated at Level P-4)

TOTAL BUILDING PERIMETER = TYPICAL TIER HEIGHT =

SOUTH ELEVATION -

TOTAL OPENINGS PROVIDED

INCREASE FOR SPRINKLERS

779.00 L.F 10.17' (at Level P-3)

TOTAL PERIMETER WALL AREA (at Level P-4) = $(779.00' \times 10.17')$ = TOTAL REQUIRED OPENINGS (20%) or $(7,922.43 \times .20) =$

7,922.43 sq.ft. 1,584.48 sq.ft.

REQUIRED PERIMETER LENGTH (40%) or (779.00 L.F. \times .40) =

OPENINGS PROVIDED (calculated at Level P-4)

EAST ELEVATION -377.00 sq.ft. (distributed over 85.67 L.F.) WEST ELEVATION -639.00 sq.ft. (distributed over 106.50 L.F.) NORTH ELEVATION -1,359.00 sq.ft. (distributed over 226.00 L.F.)

1,358.00 sq.ft. (distributed over 226.00 L.F.) 3,733.00 sq.ft.

[47.12% OF 7,923.00 sq.ft.]

TOTAL DISTRIBUTED LENGTH -<u>644.16 L.F.</u> [82.69% OF 779.00 L.F.]

MAXIMUM ALLOWABLE TRAVEL DISTANCE TO EXIT (SEE LEVEL P-3 FOR DIAGRAM)

BASE ALLOWABLE

200' ALLOWED PER CBC 1004.2.5.2.4 250' ALLOWED PER CBC 1004.2.5.2.4

INCREASE IN CORRIDOR

NOT APPLICABLE

ALLOWABLE AREA BASED ON TYPE I-F.R. CONSTRUCTION (CBC TABLE 3-H)

OCCUPANCY CLASSIFICATION	BASE ALLOWABLE AREA	AUTOMATIC SPRINKLER INCREASE (CBC 506.3)	ALLOWABLE HEIGHT (STORIES)	TOTAL ALLOWABLE AREA	
В/М	UNLIMITED	NOT APPLICABLE	UNLIMITED	UNLIMITED	
S-4	UNLIMITED	NOT APPLICABLE	UNLIMITED	UNLIMITED	

FLOOR	FLOOR AREA	OCCUPANT LOAD	REQUIRED NUMBER OF EXITS
COMMERICAL LEVEL P-1	16,997 SF	XXX OCCUPANTS XXX S.F./OCCUPANT	2 EXITS (MORE THAN 30 BUT LESS THAN 500)
PARKING LEVEL P-1	19,665 SF	99 OCCUPANTS 200 S.F./OCCUPANT	2 EXITS (MORE THAN 30 BUT LESS THAN 500)
PARKING LEVEL P-2	34,295 SF	172 OCCUPANTS 200 S.F./OCCUPANT	2 EXITS (MORE THAN 30 BUT LESS THAN 500)
PARKING LEVEL P-3	34,295 SF	172 OCCUPANTS 200 S.F./OCCUPANT	2 EXITS (MORE THAN 30 BUT LESS THAN 500)
PARKING LEVEL P-4	34, 295 SF	172 OCCUPANTS 200 S.F./OCCUPANT	2 EXITS (MORE THAN 30 BUT LESS THAN 500)
PARKING LEVEL P-5	34,295 SF	172 OCCUPANTS 200 S.F./OCCUPANT	2 EXITS (MORE THAN 30 BUT LESS THAN 500)
PARKING LEVEL P-6	34,971 SF	172 OCCUPANTS 200 S.F./OCCUPANT	2 EXITS (MORE THAN 30 BUT LESS THAN 500)
PARKING LEVEL P-7	27,288 SF	137 OCCUPANTS 200 S.F./OCCUPANT	2 EXITS (MORE THAN 30 BUT LESS THAN 500)
TOTAL AREA	236,101 SF	2 EXI	TS PROVIDED

REQUIRED EXIT WIDTHS (CBC 1003.2)

MINIMUM STAIR WIDTH = 44° (CBC 1003.2.3.2)

 $172 \times .3 = 52 \text{ INCHES } / \text{ TWO PROVIDED EXITS} = 26" < 44"$

MINIMUM DOOR CLEAR EXIT WAY WIDTH = 32" (CBC 1003.3.1.3)

 $172 \times .2 = 35$ INCHES / TWO PROVIDED EXITS = 17.5" < 32"

MINIMUM CORRIDOR WIDTH = 44° (CBC 1004.3.4)

STOCKTON **ARENA PARKING** STRUCTURE

STOCKTON, **CALIFORNIA**

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209. 931 3738

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CONSULTANTS:

Architect - Parking Consultant HNA / Pacific 61 Sea Breeze Avenue Rancho Palos Verdes, California 90275 310. 544. 8670

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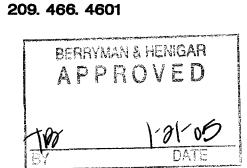
Structural Engineer
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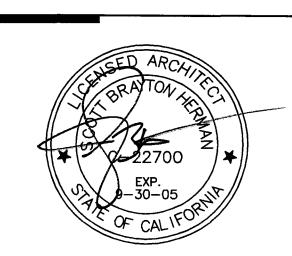
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Mechanical Designer - Design/Builder
Comfort Air 1607 Turnpike Road Stockton. California 95201



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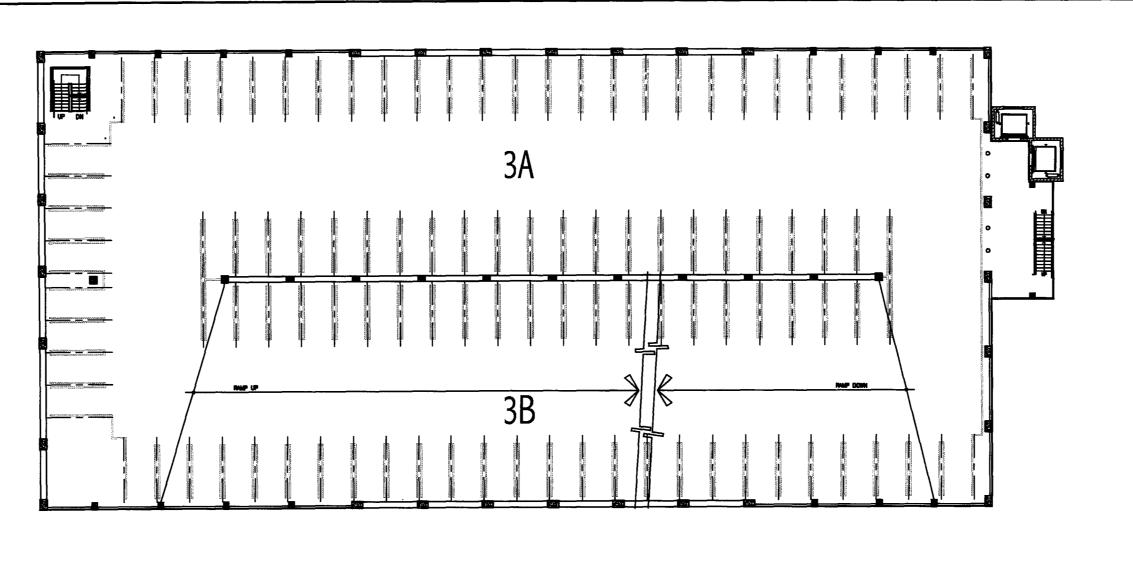


EXITING PLANS & VENTILATION CALCULATIONS

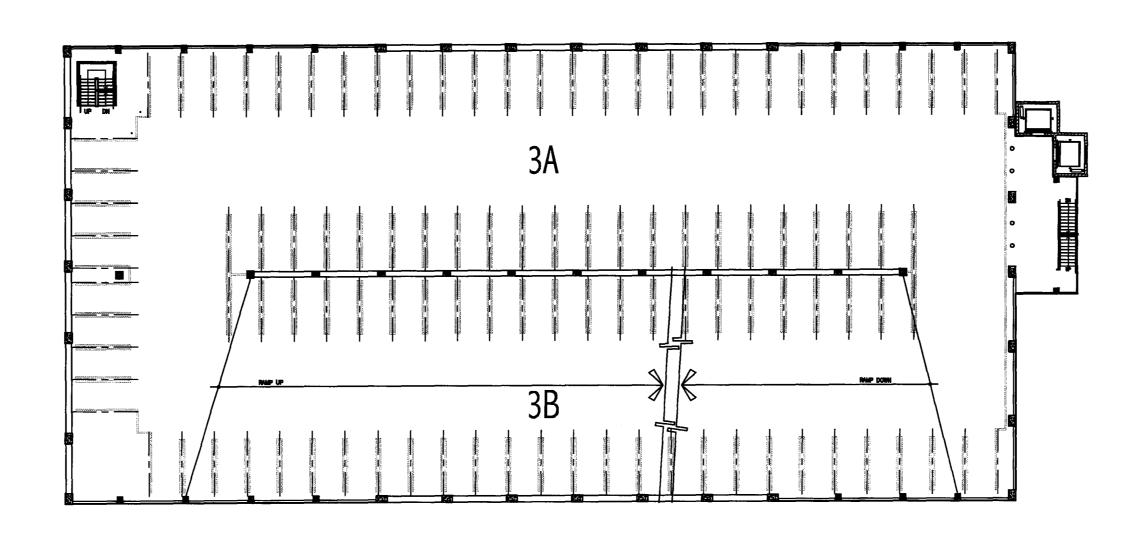
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SBH	ŞBH
DRAWING NO.	SHEET
2320A-0-1	
PROGRAM NO.	R-NO.

DRAWING NO: A-0.1

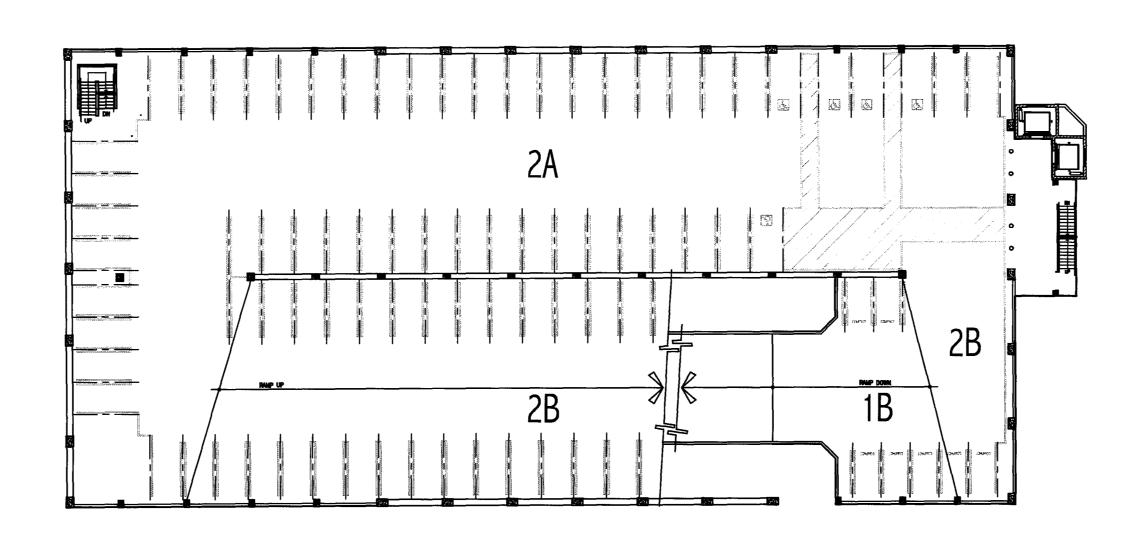
PROJECT NO: H N A 2320



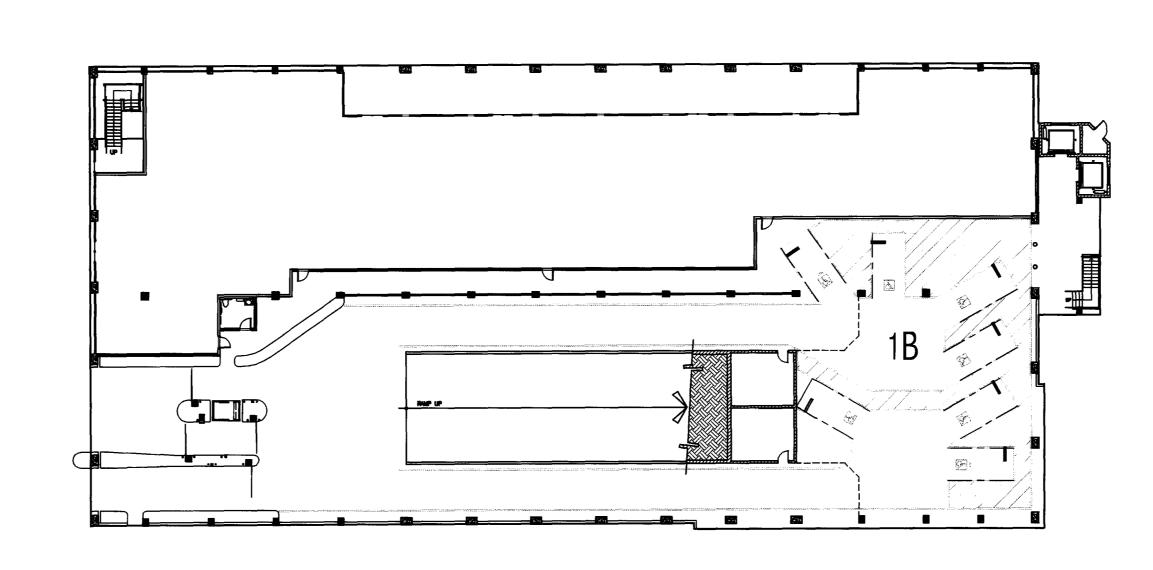
LEVEL P-4 FLOOR PLAN



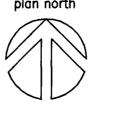
LEVEL P-3 FLOOR PLAN



LEVEL P-2 FLOOR PLAN



LEVEL P-1 FLOOR PLAN



CAR and AREA SUMMARY

PARKING	ON-GRADE	ELEVATED	NUMBER OF SPACES					CE/CTALL
AREA	SLAB (SF)	SLAB (SF)	COMPACT (8'-0" X 15'-0")	STANDARD (9'-0" X 18'-0")	ACCESSIBLE (9'-0" X 18'-0")	VAN ACCESSIBLE (9'-0" X 18'-0")	TOTAL	- SF/STAI
			(50 % 150 7	(0000)	(6 6 % 16 6 7	(000,000)		
LEVEL P-1								
1A			0	0	0	0	00	
1B	17351.00	2314.00	4	0	5	2	11	1787.73
LEVEL P-1 (TOTALS)	17351.00	2314.00	4	0	5	2	11	1787.73
LEVEL P-2								
2A		17488.50	0	41	4	1	46	380.18
2B		16806.50	3	48	0	0	51	329.54
LEVEL P-2 (TOTALS)		34295.00	3	89	4	1	97	353.56
LEVEL P-3								
3A		17488.50	0	51	0	0	51	342.9
3B		16806.50	0	51	0	0	51	329.54
LEVEL P-3 (TOTALS)		34295.00	0	102	0	0	102	336,23
LEVEL P-4								
4A		17488.50	0	51	0	0	51	342.9
4B	· · · · · · · · · · · · · · · · · · ·	16806.50	0	51	0	0	51	329.54
LEVEL P-4 (TOTALS)		34295.00	0	102	0	0	102	336.23
LEVEL P-5								
5A		17488.50	0	51	0	0	51	342.9
5B		16806.50	0	51	0	0	51	329.5
LEVEL P-5 (TOTALS)		34295.00	0	102	0	0	102	336.23
LEVEL D.C.								
LEVEL P-6		17488.50	0	51	0	0	51	342.9
6A 6B		16806.50	0	51	0	0	51 51	342.9
LEVEL P-6 (TOTALS)		34295.00	0	102	0	0	102	336.2
LEVEL P-7								
7A		17359.50	0	51	0	0	51	340.38
7B		9928.50	0	25	0	0	25	397.14
LEVEL P-7 (TOTALS)		27288.00	0	76	0	0	76	359.0
SUB-TOTALS	17351.00	201077.00	7	573	10	2	592	368.97
LEVEL P-1/P-6 NON PARKING	16997.00	676.00						<u> </u>
TOTALS	34348.00	201753.00						
TOTAL SQUARE FOOTAGE	23610	01.00						

OF STOCKTON ARENA PARKING STRUCTURE

STOCKTON, CALIFORNIA

OWNER:

City of Stockton

209. 931. 3738

DESIGN BUILDER:

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CONSULTANTS:

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Rancho Palos Verdes, California 90275
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Structural Engineer

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BERRYMAN & HENIGAR
APPROVED

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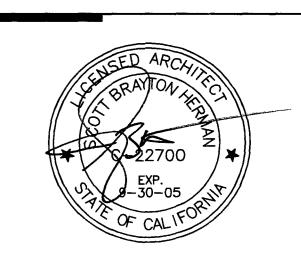
CONST. DOCUMENTS

REVISIONS:

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CAR AND
AREA SUMMARY

DRAWING NO:

A-0.2

PROJECT NO: H N A 2320

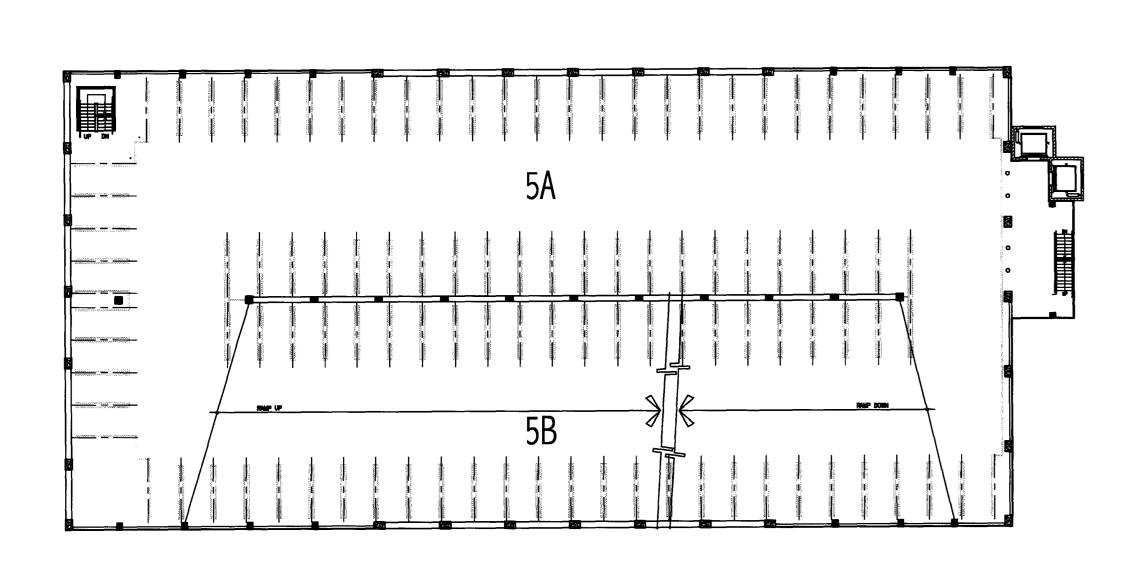
LEVEL P-7 FLOOR PLAN 6A

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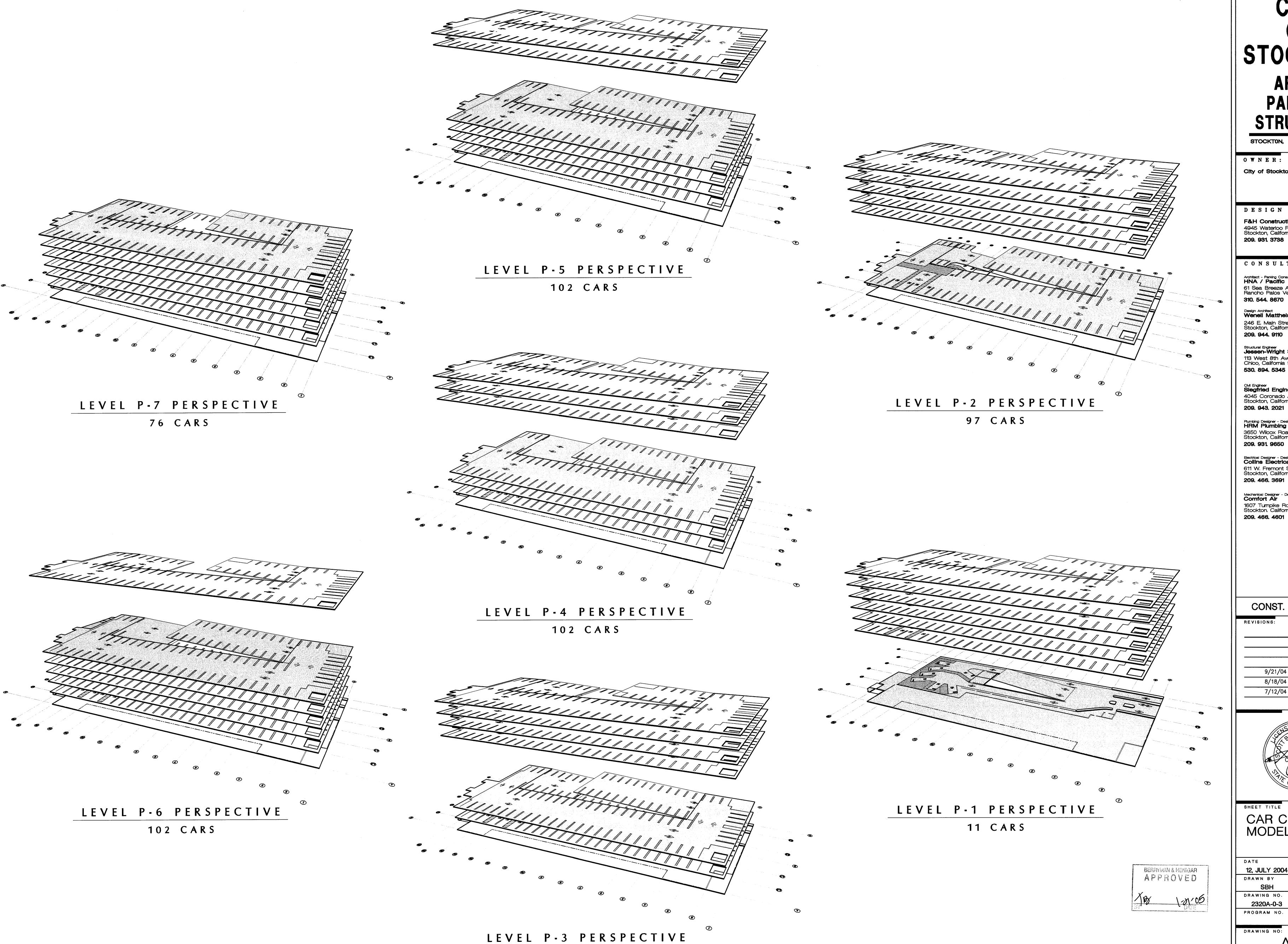
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T. Commission of the Commissio

LEVEL P-6 FLOOR PLAN



LEVEL P-5 FLOOR PLAN



102 CARS

STOCKTON **ARENA PARKING** STRUCTURE

STOCKTON, CALIFORNIA

OWNER: City of Stockton

DESIGN BUILDER:

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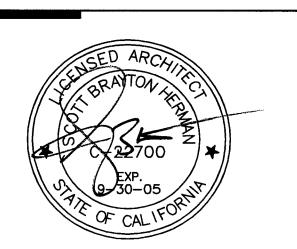
1607 Tumpike Road Stockton. California 95201

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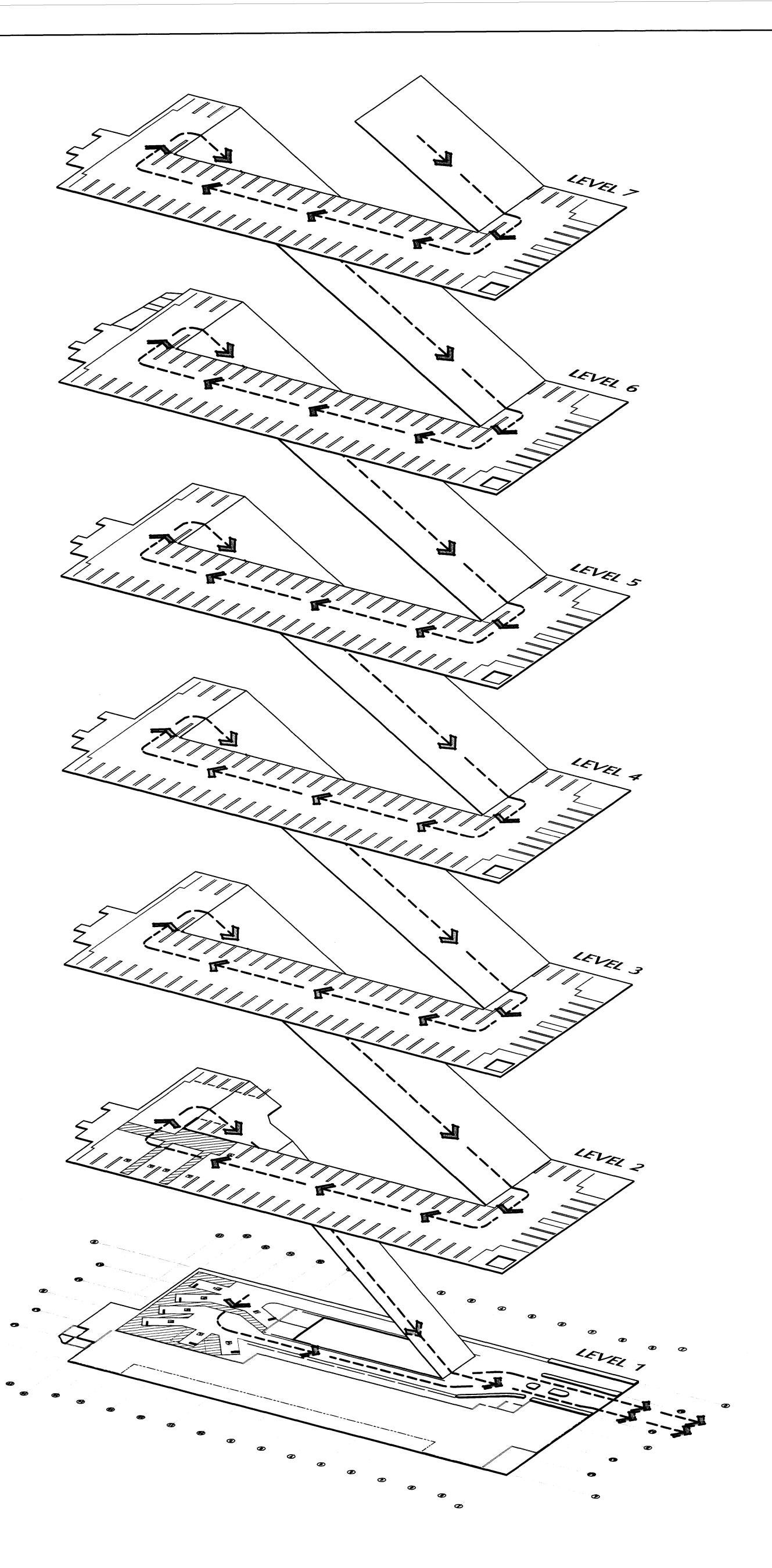
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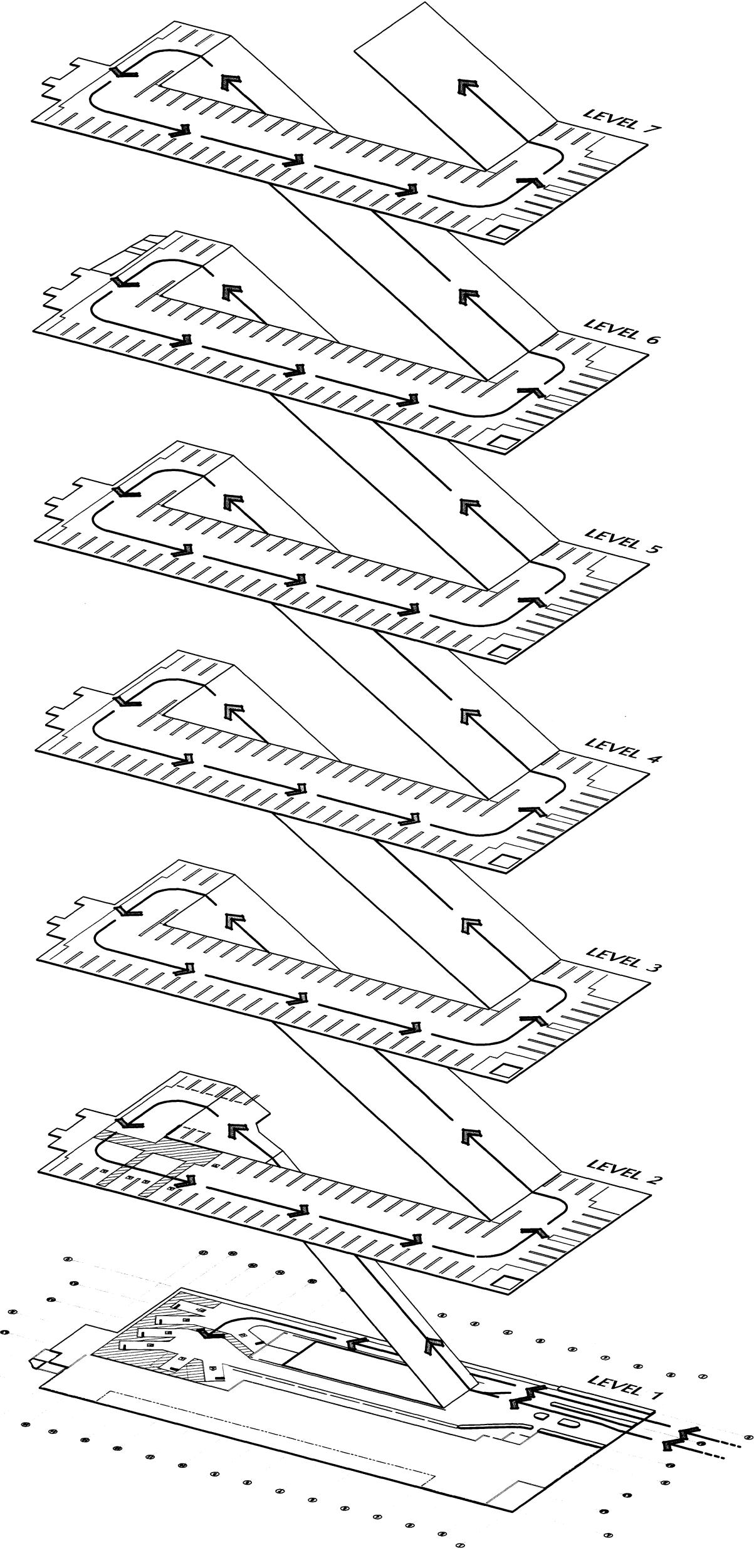
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DRAWING NO:

A-0.3

PROJECT NO: HNA 2320





BERRYMAN & HENIGAR APPROVED

INGRESS FLOW DIAGRAM

OF STOCKTON ARENA PARKING STRUCTURE

STOCKTON, CALIFORNIA

OWNER:

City of Stockton

DESIGN BUILDER:

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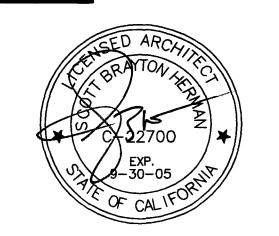
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8/18/04 PLANCHECK SET

7/12/04 FOUNDATION ONLY SET



FLOW DIAGRAM MODELS

DATE

12, JULY 2004

DRAWN BY

SBH

DRAWING NO.

2320A-0-4

PROGRAM NO.

SCALE

NO SCALE

CHECKED BY

SBH

SHEET

2320A-0-4

PROGRAM NO.

R-NO.

DRAWING NO:

A-0.4

PROJECT NO: HNA 2320

EGRESS FLOW DIAGRAM

ABBREVIATIONS SYMBOLS KEY And Janitor Detail Symbol Joint Detail Number Kit. Kitchen Drawing Number Centerline Lab. laboratory Diameter or Round Lam. Laminate Lav. Pound or Number Lavatory Section/Elevation Symbol Lkr. Locker Acoustical Area Drain Light Max. Maximum Adjustable M.C. Medicine Cabinet Aggregate A-3.3 Interior Elevations Mech. Mechanical Aluminum (Shaded Arrows Indicates Shown Elevations) Memb Membrane Approximate Architectural Manufacturer Asbestos Manhole Column Lines Asphalt Min. Minimum (Letters In Horizontal Direction, Numbers in Vertical Direction) Mir. Mirror Bituminous Miscellaneous Building M.O. Masonry Opening Block Mtd. Mounted Blocking Mul. 101 Mullion Door Number North Bottom N.I.C. Not In Contract Cab. Cabinet Work Pt., Control Pt., Datum Point, Floor Elev. Pt. No. c Catch Basin Catch Drain Nom. Nominal Equipment Type Not To Scale Cement O.A. Cer. Overall Ceramic Cast Iron Obs. Obscure Millwork Item C.G. Corner Guard O.C. On Center 0.D. Ceiling Outer Diameter (Dim.) Calking Off. Disabled Facilities Symbol Clo. Closet Opng. Opening Clr. Clear Opp. Opposite C.O. Prcst. Cased Opening $\langle w_2 \rangle$ Pre-cast Window Type Col. Plate Column Conc. P.Lam. Plastic Laminate Conc. Conn. Plas. Connection Plaster $\langle L5 \rangle$ Louver Type Construction Plywd. Plywood Cont. Continuous Pr. Pair Room Identification Corr. Corridor FAN ROOM Room Name Ctsk. P.T.D. Countersunk Paper Towel Dispenser 251 Room Number Combined Paper Towel Counter Ctr. Center Dispenser & Receptacle Double Partition Department Paper Towel Receptacle Partition Type Number Drinking Fountain Q.T. Quarry Tile Detail Riser Dia. Diameter Rad. Radius Roof Drain Dimension Dispenser Reference Refr. Refrigerator Down ----- Center Line Door Opening Register Dr. Reinforced Drawer Required Resil. Downspout Resilient Plan Blow—Up Symbol & Detail Symbol Rm. Dry Standpipe Room R.O. Rough Opening Drawing Redwood R.W.L Rain Water Leader Each Revision (Cloud Around Revision Optional) South Expansion Joint Solid Core S.C. Elevation S.C.D. Seat Cover Dispenser Electrical Sched Elevator Schedule Floor Drain S.D. Emer. Emergency Soap Dispenser Sect. Encl. Section Enclosure Roof Drain Electrical Panelboard Shelf Shr. Equal Shower Equipment Sheet Catch Drain Similar Electric Water Cooler Sim. S.N.D. Sanitary Napkin Disp. Exst. Existing ○ 0.H. Overflow Hole S.N.R. Sanitary Napkin Recept. Exposed Expansion Specification O.S.P. Dry Standpipe Exterior Sqare S.St. Stainless Steel Fire Alarm S.Sk. Service Sink Berayway a he**ngar** Finish Floor Elevations Floor Drain Sta. Station APPROVED Standard Foundation Stl. Fire Extinguisher Steel Fire Extinguishers Stor. Storage Fire Extinguisher Cab. Structural Fire Hose Cabinet Contract Limit Line Suspended Finish Floor Symmetrical Flash. Flashing Trd. Tread T.B. Towel Bar Fluorescent MATERIALS KEY Face Of Concrete T.C. Top Of Curb Face Of Finish Telephone Face Of Studs Ter. Terrazzo Tongue And Groove T.&G. Fireproof Full Size Thk. Thick Foot Or Feet T.P. Top Of Pavement Gypsum Bd. T.P.D. Toilet Paper Dispenser Footing Earth/Compact Fill T.V. Television Furring T.W. Top Of Wall Future Typical Gauge Porous Fill/Gravel Finished Wood Unf. Unfinished Galvanized Grab Bar U.O.N Unless Otherwise Noted Urinal Glass Ur. Blocking/Rough Wood Conc. Masonry Unit Ground Vertical Grade Vestibule Gyp. Gypsum Face/Common Brick Hose Bibb Water Closet Rigid Insulation Without Waterproof Wainscot Sand/Mortar Plaster Inside Diameter (Dim.) Brick Elev. Interior

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STOCKTON, CALIFORNIA

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113 West 8th Avenue, Suite A
Chico, California 95926

530. 894. 5345

CMI Engineer
Siegfried Engineering, Inc.
4045 Coronado Avenue
Stockton, California 95204
209. 943. 2021

Plumbing Designer - Design/Builder
HRM Plumbing
3650 Wilcox Road
Stockton, California 95215
209. 931. 9650

Electrical Designer - Design/Builder
Collins Electrical
611 W. Fremont Street
Stockton, California 92503
209. 466. 3691

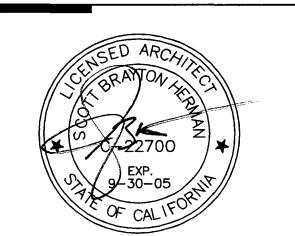
Mechanical Designer - Design/Builder **Comfort Air** 1607 Turnpike Road Stockton, California 95201 **209. 466. 4601**

CONST. DOCUMENTS

REVISIONS:

9/21/04 PERMIT SET 8/18/04 PLANCHECK SET

7/12/04 FOUNDATION ONLY SET



SYMBOLS

SYMBOLS KEY MATERIALS KEY ABBREVIATIONS

DATE

12, JULY 2004

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2320A-0-5

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SCALE

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PROGRAM NO.

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A-0.5

NO: H N A 2320

DISABLED ACCESS NOTES

A. Site Development & Accessible Route of Travel

Site development and grading shall be designed to provide access to all entrances and exterior ground floor exits, and access to normal paths of travel, and where necessary to provide access, shall incorporate pedestrian ramps, curbs ramps,

B. Walks and Sidewalks

- Walks and sidewalks shall have a continuous common surface, not interrupted by steps or by abrupt changes in level exceeding 1/2", and shall be a minimum of 48" in width.
- When abrupt changes in level not exceeding 1/2" occur, they shall be beveled with a slope no greater than 1:2, except that level changes not exceeding 1/4" may be vertical.
- 3. Abrupt changes in level along any accessible route exceeding 1/2" shall comply with the requirements for curb ramps.
- When the slope in the direction of travel of any walk exceeds 1 vertical to 20 horizontal it shall comply with the provisions of section 1133B.5 as a pedestrian ramp.
- Walk and sidewalk surface cross slopes shall not exceed 1/4" per foot except when the enforcing agency finds that due to local conditions it creates an unreasonable hardship, the cross slope can be increased to a maximum of 1/2" per foot for distances not to exceed 20'.
- Walks shall be provided with a level area not less than 60" by 60" at a door or gate that swings toward the walk, and not less than 48" wide by 44" deep at a door or gate that swings away from the walk
- 7. Walks shall extend a minimum of 24" to the side of the strike edge of a door or gate that swings toward the walk.
- 8. All walks with continuous gradients shall have level areas at least 5' in length at intervals of at least every 400'.
- 9. Walk and sidewalk surfaces shall be slip-resistant as follows
- A. Surfaces with a slope of less than 6% gradient shall be at least as slip-resistant as that described as a medium salted
- B. Surfaces with a slope of 6% gradient shall be slip resistant.
- 10. Walks, sidewalks, and pedestrian ways shall be free of gratings wherever possible. For gratings located in the surface of any of these areas, grid openings in gratings shall be no greater than 1/2" wide in one direction. If gratings have elongated openings, they shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

C. Ramps

- The maximum slope of a ramp that serves any exit way, provides access for persons with disabilities, or is in the path of travel shall be 1" rise in 12' of horizontal run.
- 2. The cross slope of ramp surfaces shall be no greater than 1:50.
- The width of ramps shall be as required for stairways and exits.
- Pedestrian ramps serving primary entrances to buildings having an occupant load of 300 or more shall have a minimum clear width of 60".
- 5. All other pedestrian ramps serving primary entrances shall have a minimum width of 48".
- 6. Landings shall be provided at the top and bottom of each ramp.

required width by more than 3" when fully open.

- Intermediate landings shall be provided at intervals not exceeding 30" of vertical rise and at each change of direction
- 8. Top landings shall not be less than 60" wide and shall have a length of not less than 60" in the direction of ramp run.
- Doors in any position shall not reduce the minimum dimension of the ramp landing to less than 42" and shall not reduce the
- 10. The width of the landing shall extend 24" past the strike edge of any door or gate for exterior ramps and 18" past the strike
- 11. At bottom and intermediate landings, the width shall be at least the same as required for the ramp.
- 12. Intermediate landing at a change of direction in excess of 30 degrees and bottom landings shall have a dimension in the
- direction of ramp run of not less than 72" to accommodate the handrail extension.
- 13. Other intermediate landings shall have a dimension in the direction of travel of not less than 60" 14. Ramp landings are not considered in determining the maximum horizontal distance of each ramp.
- 15. Handrails are required on ramps that provide access if the ramp slope exceeds 1' rise in 20' of horizontal run, except that at exterior door landings, handrails are not required on ramps less than 6" rise or 72" in length.
- 16. Handrails shall be placed on each side of each ramp, shall be continuous the full length of the ramp, shall be 34" to 38" above the ramp surface, shall extend a minimum of 1' beyond the top and bottom of the ramp, and the ends shall be
- 17. The grip portion of handrails shall be not less than 1-1/4" nor more than 1-1/2", or the shape shall provide an equivalent gripping surface, and all surfaces shall be smooth with no sharp corners. Handrails shall not rotate within their fittings.
- 18. Handrails projecting from a wall shall have a space of 1-1/2" between the wall and the handrail.
- 19. Handrails may be located in a recess if the recess is a maximum of 3" deep and extends at least 18" above the top of the
- 20. Any wall or other surface adjacent to handrails shall be free of sharp or abrasive elements. Edges shall have a minimum
- 21. Where the ramp landing is not bounded by a wall or fence, there shall be provided on each side of the ramp landing where there is a vertical drop exceeding 4", one of the following:
- A. A guide curb a minimum of 2" in height; or
- B. A wheel guide rail, centered 3" ± 1" above the surface of the ramp landing.
- 22. Where the ramp surface is not bounded by a wall or fence and the ramp exceeds 10' in length, the ramp shall comply with one of the following requirements.
- A. A guide curb a minimum of 2" in height shall be provided at each side of the ramp. B. A wheel guide shall be provided, centered $3" \pm 1"$ above the surface of the ramp.
- 23. Outdoor ramps and their approaches shall be designed and constructed so that water will not accumulate on walking

D. Curb Ramps

surfaces.

- Curb ramps shall be a minimum of 4' in width and shall lie, generally, in a single sloped plan, with a minimum of surface warping and cross slope.
- 2. The slope of curb ramps shall not exceed 1 vertical to 12 horizontal.
- 3. A level landing 4' deep shall be provided at the upper end of each curb ramp over its full width to permit safe egress from the ramp surface, or the slope of the fanned or flared sides of the curb ramp shall not exceed 1 vertical to 12 horizontal.
- 4. The surface of each curb ramp and its flared sides shall be stable, firm, and slip-resistant and shall be of contrasting finish from that of the adjacent sidewalk.
- 5. All curb ramps shall have a grooved border 12" wide at the level surface of the sidewalk along the top and each side approximately 3/4" on center. All curb ramps constructed between the face of the curb and the street shall have a grooved
- border at the level surface of the sidewalk. 6. The lower end of each curb ramp shall have a 1/2" lip beveled at 45 degrees as a detectable way-finding edge for persons

E. Parking

1. See notes on sheet A-11.1.

F. Entrances and Exits

- 1. All entrances and all exterior ground floor exit doors to buildings and facilities shall be made accessible to persons with
- 2. Exit doors shall be operable from the inside without the use of a key or any special knowledge or effort.

the ability to grasp the opening hardware. Locked exit doors shall operate as above in egress direction.

- 3. Manually operated edge or surface-mounted flush bolts and surface bolts are prohibited. When exit doors are used in pairs and approved automatic flush bolts are used, the door leaf having the automatic flush bolts shall have no doorknob or surface-mounted hardware. The unlatching of any leaf shall not require more than one operation.
- 4. Latching and locking doors that are hand activated and which are in a path of travel shall be operable with a single effort by lever type hardware, panic bars, push-pull activating bars, or other hardware designed to provide passage without requiring
- 5. Hand activated door opening hardware shall be centered between 30" and 44" above the floor.
- 6. Every doorway which is located within an accessible path of travel shall be of a size as to permit the installation of a door not less than 3' in width and not less than 6'-8" in height. When installed, exit doors shall be capable of opening so that the clear width of the exit is not less than 32", measured between the face of the door and the opposite stop.
- . Where a pair of doors is utilized, at least one of the doors shall provide a clear, unobstructed opening width of 32" with the leaf positioned at an angel of 90 degrees from its closed position.
- 8. Minimum maneuvering clearances at doors shall be as shown in figure 11B-26. The floor or ground area within the required clearances shall be level and clear.
- 9. There shall be a level and clear floor or landing on each side of a door. The level area shall have a length in the direction of door swing of at least 60" and the length opposite the direction of door swing of 48" as measured at right angles to the plane
- 10. The width of the level area on the side to which the door swings shall extend a minimum of 24" past the strike edge of the door for exterior doors and a minimum of 18" past the strike edge for interior doors.
- 11. The floor or landing shall be not more than 1/2" lower than the threshold of the doorway.
- 12. The bottom 10" of all doors except automatic and sliding shall have a smooth, uninterrupted surface to allow the door to be opened by a wheelchair footrest without creating a trap or hazardous condition. Where narrow frame doors are used, a 10" high smooth panel shall be installed on the push side of the door, which will allow the door to be opened by a wheelchair footrest without creating a trap or hazardous condition.
- 13. Maximum effort to operate doors shall not exceed 5 pounds for exterior doors and 5 pounds for interior doors, such pull or push effort being applied at right angles to hinged doors and at the center plane of sliding or folding doors. Compensating devices or automatic door operators may be utilized to meet the above standards. When fire doors are required, the maximum effort to operate the door may be increased to the maximum allowable by the appropriate administrative authority, not to exceed 15 pounds.
- 14. Recessed doormats shall be adequately anchored to prevent interference w/ wheelchair traffic.

G. Stairways

- 1. Stairways shall have handrails on each side. Handrails shall be 34" to 38" above nosing of the treads.
- 2. Handrails shall extend a minimum of 12" beyond the top nosing and 12" plus the tread width beyond the bottom nosing.
- 3. Where the extension of the handrail in the direction of the stair run would create a hazard, the termination of the extension shall be made either rounded or returned smoothly to the floor, wall, or post. Where the stairs are continuous from landing to
- landing, the inner rail shall be continuous and need not extend out into the landing. than 1-1/4" nor more than 1-1/2" in cross
- Sectional nominal dimensions or the shape shall provide an equivalent gripping surface. The handgrip portion of handrails shall have a smooth surface with no sharp corners. Gripping surfaces (top & sides) shall be uninterrupted by newel posts, other construction elements, or obstructions. Any wall or other surface adjacent to the handrail shall be free of sharp or
- 6. Handrails may be located in a recess if the recess is a maximum of 3" deep and extends at least 18" above the top of the rail. Handrails shall not rotate within their fittings.

abrasive elements. Edges shall have minimum radius of 1/8". Handrails projecting from a wall shall have a space of 1-1/2"

- 7. The upper approach and the lower tread of each stair shall be marked by a strip of clearly contrasting color at least 2" wide placed parallel to and not more than 1" from the nose of the step or landing to alert the visually impaired. The strip shall be of material that is as at least as slip resistant as the other treads of the stair. All tread surfaces shall be slip-resistant. Weather exposed stairs and their approaches shall be
- 8. Designed so that water will not accumulate on walking surfaces. Treads shall have smooth, rounded, or chamfered exposed edges, and no abrupt edges at the nosing (lower front edge). Open risers are not permitted. On any given flight of stairs, all steps shall have a uniform riser height
- And uniform tread widths consistent with 1133B.4. Stairs treads shall be no less than 11" deep, measured from riser to riser. Risers shall be sloped or the underside of nosing shall have an angle not less than 60 degrees from the horizontal.

H. Floors and Levels

between the wall and the handrail.

- 1. Ground and floor surfaces along accessible routes and in accessible rooms and spaces, including floors, walks, ramps, stairs, and curb ramps, shall be stable firm, and slip-resistant.
- 2. Changes in level up to 1/4" may be vertical and without edge treatment.
- 3. Changes in level between 1/4" and 1/2" shall be accomplished by means of a ramp no steeper than 1 vertical to 2 horizontal.
- If carpet or carpet tile is used on ground or floor surface, it shall be securely attached; have a firm cushion, pad or backing or no cushion or pad; and have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. The maximum pile height shall be 1/2". Exposed edges or carpet shall be fastened to floor surfaces and have trim along the entire length of the exposed edge. Carpet edge trim shall comply with section 1121B.2.

I. Sanitary Facilities

- 1. Doorways leading to men's sanitary facilities shall be identified by an equilateral triangle 1/4" thick with edges 12" long and a vertex pointing upward. Women's sanitary facilities shall be identified by a circle 1/4" thick and 12" in diameter.
- Unisex sanitary facilities shall be identified by a circle 1/4" thick, 12" in diameter, with a triangle superimposed on the circle and within the 12" diameter.
- 3. Geometric (circle & triangle) symbols on sanitary facility doors shall be centered on the door at a height of 60" and their color and contrast shall be distinctly different from the color and contrast of the door.
- There shall be sufficient space in the toilet room for a wheelchair measuring 30" wide by 48" long to enter the room and permit the door to close.
- There shall be in the room a clear floor space of at least 60" in diameter, or a t-shaped space complying with figures 11B-12(A) of (B). No door shall encroach into this space.
- 6. The water closet shall be located in a space, which provides a minimum 28" wide clear space from a wall at one side. The other side shall provide 18" from the centerline of the water closet to the wall. A minimum 48" clear space shall be provided in front of the water closet.
- The height of accessible water closets shall be a minimum of 17" and a maximum of 19" measured to the top of a maximum 2" high toilet seat, except that 3" seats shall be permitted only in alterations where the existing fixture is less than 15" high.
- 8. A clear floor space 30" x 48" shall be provided in front of a lavatory to allow a forward approach. Such clear floor space shall adjoin or overlap an accessible route and shall extend into knee and toe space underneath the lavatory.
- 9. Lavatories when located adjacent to a sidewall or partition shall be mounted a minimum of 18" to the centerline of the fixture.
- 10. No higher than 34" above the finished floor and with a vertical clearance measured from the bottom of the apron or outside bottom edge of the lavatory of 29", reducing to 27" at a point located 8" back from the front edge. Knee clearance below the lavatory shall extend a minimum of 30" in width by 17" in depth. Toe clearance shall be the same width and shall be a minimum of 9" high from the floor and a minimum of 17" deep from the front of the lavatory.
- 11. Hot water and drainpipes accessible under lavatories shall be insulated or otherwise covered. There shall be no sharp or abrasive surfaces under lavatories.
- 12. Controls for water closet flush valves shall be mounted on the wide side of toilet areas.

All lavatories that are designated to be accessible shall be mounted with the rim or counter edge

- 13. Water closet flush valve controls, and faucet and operating mechanism controls, shall be operable with one hand, shall not require tight grasping, pinching, or twisting of the wrist, and shall be mounted no more than 44" above the floor.
- 14. The force required to activate water closet flush valve controls, and faucet and operating mechanism controls, shall be no greater than 5 lbf. Electronic or automatic flushing controls are acceptable and preferable.

I. Sanitary Facilities (continued)

- 15. Self-closing faucet control valves are allowed if the faucet remains open for at least 10 seconds.
- 16. Mirrors shall be mounted with the bottom edge no higher than 40" from the floor.
- 17. Where towel, sanitary napkins, water receptacles, and other similar dispensing and disposal fixtures are provided, at least one of each type shall be located with all operable parts, including coin slots, within 40" from the finished floor.
- 18. Toilet tissue dispensers shall be located on the wall within 12" of the front edge of the toilet seat and no lower than 19" from
- the floor. Dispensers that control delivery or that do not permit continuous paper flow shall not be used. 19. Toilet room floors shall have a smooth, hard, non-absorbent surface such as portland cement, concrete, ceramic tile or other
- approved material which extends upward onto the walls at least 5". Walls within water closet compartments and walls within 24" of the front and sides of urinals shall be similarly finished to a height of 48" and, except for structural elements, the materials used in such walls shall be a type which is not adversley affected by moisture.
- 20. Grab bars at the side shall be at least 42" long with the front end positioned 24" in front of the water closet stool and with the back end positioned no more than 12" from the rear wall. Grab bars at the back shall be not less than 36" long.
- 21. Grab bars shall be securely attached 33" above and parallel to the floor, except that where a tank type toilet is used which obstructs placement at 33", the grab bar may be as high as 36".
- 22. The diameter or width of the gripping surfaces of a grab bar shall be 1-1/4" to 1-1/2" or the shape shall provide an equivalent gripping surface. If grab bars are mounted adjacent to a wall, the space between the wall and the grab bars shall be 1-1/2".
- 23. The structural strength of grab bars, tub and shower seats, fasteners, and mounting devices shall meet the following
- A. Bending stress in a grab bar or seat induced by the maximum bending moment from the application of a 250-lb point load shall be less than the allowable stress for the material of the grab bar or seat.

B. Shear stress induced in a grab bar or seat by the application of a 250-lb point load shall be less than the allowable shear

allowable lateral load of either the fastener or mounting device or the supporting structure, whichever has the smaller

- stress for the material of the grab bar or seat, and its mounting bracket or other support is considered to be fully restrained, then direct and torsional shear stresses shall not exceed the allowable shear stress. C. Shear force induced in fastener or mounting devices from the application of a 250-lb point load shall be less than the
- allowable load. D. Tensile force induced in a fastener by a direct tension force of a 250-lb point load, plus the maximum moment from the application of a 250-lb point load, shall be less than the allowable withdrawal load between the fastener and supporting
- E. Grab bars shall not rotate within their fittings.
- 24. A grab bar and any wall or other surface adjacent to it shall be free of any sharp or abrasive elements. Edges shall have a minimum radius of 1/8".
- 25. All doors, fixtures and controls shall be on an accessible route with a minimum clear width of 36" except at doors. If a person in a wheelchair must make a turn around an obstruction, the minimum clear width of the accessible route shall be as shown in figure 11B-5E.

J. Signs and Identification

- 1. The international symbol of accessibility shall consist of a white figure on a blue background. The blue shall be equal to color no. 15090 in federal standard 599B.
- Letters and numbers on signs shall have a width-to-height ratio of between 3:5 and 1:1 and a stroke width-to-height ratio
- 4. Ends shall be returned or terminate in newel posts or safety terminals. The handgrip portion of handrails shall be not less 3. Characters and numbers on signs shall be sized according to the viewing distance from which they are to be read. The
 - minimum height is measured using an upper case x. Lower case characters are permitted. For signs suspended or projected above the finish floor in compliance with section 1121B, the minimum character height shall be 3". Characters and symbols shall contrast with their background, either light characters on a dark background or dark characters
 - When raised characters or symbols are used, they shall conform to the following:
 - A. Letters and numbers on signs shall be raised 1/32" minimum and shall be sans-serif uppercase characters accompanied by grade 2 Braille.
 - B. Raised characters or symbols shall be a minimum of 5/8" high. C. Pictorial symbol sign (pictograms) shall be accompanied by the equivalent verbal description placed directly below the pictogram. The border dimension of the pictogram shall be a minimum of 6" in height.
 - Contracted grade 2 Braille shall be used wherever Braille symbols are specifically required in other portions of these regulations. Dots shall be 1/10" on centers in each cell with 2/10" space between cells. Dots shall be raised a minimum of 1/40" above the background.
 - All building entrances that are accessible to and usable by persons with disabilities and at every major junction along or leading to an accessible route of travel shall be identified with a sign displaying the international symbol of accessibility and with additional directional signs, as required, to be visible to person along approaching pedestrian ways.
 - 8. When permanent identification is provided for rooms and spaces, raised letters shall be provided and shall be accompanied by Braille in conformance with sections 1117B.5.5 through 1117B.5.5.3. Signs shall be installed on the wall adjacent to the latch side of the door. Where there is no wall space on the latch side, including at double leaf doors, signs shall be placed on the nearest adjacent wall, preferably on the right. Mounting height shall be 60" above the finished floor to the centerline of the sign. Mounting location shall be determined so that a person may approach within 3" of signage without encountering protruding objects or standing within the swing of a door.

K. Electrical

- The center of junction box for electrical and communication system receptacles outlets shall be installed at an accessible location meeting the clearances and reach range requirements of section 1118B and not less than 15" above the floor or
- working platform. 2. The center grip of the operating handle of controls or switches intended to be used by the occupant of the room or area to control lighting and receptacle outlets, appliances, or cooling, heating, and ventilating equipment, shall meet the requirements of Part 2, California Building Code (CBC) Section 1118B, space allowance and reach ranges for persons with disabilities and shall not be more than 48" above the floor or working platform.
- 3. The center of fire alarm initiating devices (boxes) shall be located 48" above the level of the floor, working platform, ground surface, or sidewalk

L. Notification Appliances for the Hearing Impaired

- 1. If emergency warning systems are required they shall activate a means of warning the hearing impaired.
- Approved notification appliances for the hearing impaired shall be installed in accordance with the provisions of NFPA 72G in the following areas:
 - A. Restrooms B. Corridors
- C. Occupied rooms where ambient noise impairs hearing of the fire alarm D. Lobbies
- E. Any other area for common use
- Strobe signaling devices required for the hearing impaired shall be State Fire Marshall approved and listed.
- 4. Notification appliances for the hearing impaired shall also be provided with the following:
- A. Audible signals intended for operation in the public mode should have a sound level of not less than 75dba at 10' of more than 110dba at the minimum hearing distance from the audible appliance. B. Audible signals intended for operation in the private mode should have a sound level of not less than 45dba at 10' of 6. Protruding objects shall not reduce the clear width of an accessible route or maneuvering space.
- more than 110dba at the minimum hearing distance from the audible appliance.
- C. A specification value not to exceed 3 flashes per second and not slower than 1 flash per second. D. A clear nominal white colored light source.
- E. Placement as low as possible, but no lower than a minimum of 80" (2 meters) above the floor and a minimum of 6" (0.15 F. Notification appliances for occupancies required to comply with the Americans with Disabilities Act (ADA) shall comply
- with the followung:
- 1) A pulsing light source of not less than 75 candelas shall be provided. 2) No place in any room or space required to have a visual signal appliance shall be more than 50' (15 meters) from the signal (in the horizontal plane). In large rooms and spaces exceeding 100' (30 meters) across, without obstructions 6' (2 meters) above the finished floor, such as auditoriums, devices nay be placed around the perimeter, spaced a maximum 100' (30 meters) apart, in lieu of suspending appliances from the ceiling.
- 3) No place in common corridors or hallways in which visual alarm signaling appliances are required shall be more than 50' (15 meters) from the signal.

M. Elevators

- 1. The car inside shall allow for the turning of a wheelchair. The minimum clear distance between walls or between wall and door, excluding return panels, shall be not less than 80" by 54" for center-opening doors, and 68" by 54" for side-opening doors. Minimum distance from wall to return panel shall be not less than 51".
- Minimum clear width for elevator doors shall be 36-inches.

least 1-1/2" min. Clear of the walls at a normal height of 32" above the floor.

- 3. A handrail shall be provided on one wall of the car, preferably the rear. The rails shall be smooth and the inside surface at
- 4. The centerline of elevator floor buttons shall be no higher than 54" above the finished floor for side approach and 48" for
- 5. Floor buttons shall be provided with visual indicators to show when each call is registered. The visual indicators shall be extinguished when each call is answered.
- 6. Except for photo electric tube by-pass switches, emergency controls, including the emergency stop and alarm, shall be grouped in or adjacent to the bottom of the panel and shall be no lower than 2'-11' from the floor. For multiple controls only one set must comply with these height requirements.
- The centerline of the hall call operation buttons shall within 42" of the floor. The buttons shall be a minimum of 3/4" in size and shall be raised 1/8" ± 1/32" above the surrounding surface. Visual indication shall be provided to show each call registered and extinguished when answered. Objects adjacent to and below hall call buttons shall not project more than 4" from the wall.
- 8. The emergency telephone handset shall be positioned no higher than 4' above the floor, and the handset cord shall be a minimum of 2'-5' in length.

to the provisions of 1003.3.1.8, type of lock or latch. Emergency intercommunication shall not require voice communication.

- 9. If the telephone system is located in a closed compartment, the compartment door hardware shall be lever type conforming
- 10. A car position indicator shall be provided above the car-operating panel or over the opening of each car to show the position of the car in the hoist way by illumination of the indication corresponding to the landing at which the car is stopped or
- 11. The car position indicator shall be on a contrasting color background and a minimum of 1/2" in height.
- 12. An audible signal shall sound to tell passengers that the car is stopping or passing a floor served by the elevator. A special button located with emergency controls may be provided. Operation of the button will activate an audible signal only for the
- 13. The minimum illumination at the car controls, threshold, and the landing when the car and landing doors are open shall be not less than 5-foot candles.
- 14. Identification for the visually impaired shall be as follows:
- A. Passenger elevator car controls shall have a minimum dimension of 3/4" and shall be raised 1/8" ± 1/32" above the
- surrounding surface. B. Control buttons shall be illuminated, shall have square shoulders, and shall be activated by a mechanical motion that is
- C. All control buttons shall be designated by a 5/8" minimum, Arabic numeral, standard alphabet character, or standard symbol immediately to the left of the control button.
- D. A Braille symbol shall be located immediately below the numeral, character or symbol. E. A minimum clear space of 3/8" or other suitable means of separation shall be provided between the rows of control
- F. The raised characters shall be white on a black background. G. Controls and emergency equipment identified by raised symbols shall include, but not be limited to, door open, door close, alarm bell, emergency stop, and telephone.
- H. The call button for the main entry floor shall be designated by a raised star at the left of the floor designation. 15. A visual and audible signal shall be provided at each hoist way indicating to the prospective passenger the car answering the
- A. The visual signal for each direction shall be a minimum of 2 1/2" high by 2 1/2" wide, and visible from the proximity of the
- B. The audible signal shall sound once for the up direction and twice for the down direction or of a configuration, which

C. The centerline of the fixture shall be located a minimum of 6' in height from the lobby floor.

16. The use of in-car lanterns, located in or on the car doorjambs, visible from the proximity of the hall call buttons and conforming to section 3003.4.15 will be acceptable.

Mechanical Engineers (ASME) Document ASME 17.1-1990.

distinguishes between up and down elevator travel.

call and its direction of travel as follows:

17. The use of arrow shapes is preferable for visual signals. 18. Passenger elevator landing jambs on all elevator floors shall have the number of the floor on which the jamb is located designated by raised Arabic numerals which are a minimum of 2" in height and raised Braille symbols which conform to section 1117B.5.2 located approximately 5' above the floor on the jamb panels on both sides of the door so that they are

visible from within the elevator. Raised Braille symbols shall be placed directly to the left of the corresponding raised Arabic

- numerals. The raised characters shall be on a contrasting background.
- 19. Power-operated horizontally sliding car and hoist way doors opened and closed by automatic means shall be provided. 20. Doors closed by automatic means shall be provided with a door reopening device which will function to stop and reopen a car door and adjacent hoist way door in case the car door is obstructed while closing. This reopening device shall also be capable of sensing an object or person in the path of the closing door without requiring contact for activation at a normal 5" and 29" above the floor. Door reopening devices shall remain effective for a period of not less than 20 seconds. After such and interval the doors may close in accordance with the requirements of ANSI 17.1-86 of the American Society of
- 21. The minimum acceptable time from notification that a car is answering a call (lantern and audible signal) until the doors of
- 22. For cars with in-car lanterns, the total time T, as calculated in accordance with section 3003.4.6.1A, begins when the lantern is visible from the vicinity of hall call buttons and an audible signal is sounded.

landings with a tolerance of ± 1/2" under normal loading and unloading conditions. This self-leveling shall, within its zone, be

entirely automatic and independent of the operating device and shall correct the over-travel or under-travel. The car shall

also be maintained approximately level with the landing, irrespective of load. The clearance between the car platform sill

23. The minimum acceptable time for doors to remain fully open shall not be less than 5 seconds. 24. The elevator shall be automatic and be provided with a self-leveling feature that will automatically bring the car to the floor

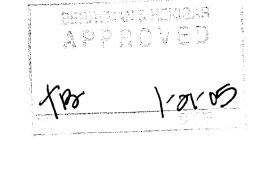
and the edge of the hoist way landing shall be no greater than 1-1/4".

the car start to close shall be calculated in accordance with section 3003.4.6.1A.

- N. Hazards and Protruding Objects 1. Abrupt changes in level, except between a walk or sidewalk and an adjacent street or driveway, exceeding 4" in a vertical dimension, such as at planter or fountains located in or adjacent to walks, sidewalks, or other pedestrian ways, shall be identified by warning curbs projecting at least 6" in height above the walk or sidewalk surface to warn the blind of a potential
- When a guardrail or handrail is provided, no warning curb is required when a guide rail is provided centered 3" ± 1" above the surface of the walk or sidewalk, the walk is 5 percent or less gradient, or no adjacent hazard exists.
- 3. Objects projecting from walls with their leading edges between 27" and 80" above the finished floor shall protrude no more than 4" into walks, halls, corridors, passageways, or aisles. 4. Objects mounted with their leading edges at or below 27" above the finished floor may protrude any amount into walks, halls,

corridors, passageways or aisles. Freestanding objects mounted on posts or pylons may overhang 12" maximum from 27" to

- 5. Free-standing objects mounted on posts or pylons may overhang 12" maximum from 27" to 80" above the ground or finished
- 7. Walks, halls, corridors, passageways, aisle or other circulation spaces shall have 80" minimum clear headroom.
- 8. Any obstruction that overhangs a pedestrian way shall be a minimum of 80" above the walking surface as measured from the



STOCKTON **ARENA PARKING**

STRUCTURE STOCKTON.

OWNER:

City of Stockton

4945 Waterloo Road

209. 931. 3738

DESIGN BUILDER: F&H Construction

CONSULTANTS:

Stockton, California 95215

Architect - Parking Consultant HNA / Pacific 61 Sea Breeze Avenue Rancho Palos Verdes, California 90275

Design Architect
Wenell Mattheis Bowe 246 E. Main Street Stockton, California 95202

310. 544. 8670

209. 944. 9110

Structural Engineer
Jessen-Wright Structural Engineers 113 West 8th Avenue, Suite A Chico, California 95926 530. 894. 5345

Civil Engineer
Slegfried Engineering, Inc.

4045 Coronado Avenue

Stockton, California 95215

Electrical Designer - Design/Builder Collins Electrical

611 W. Fremont Street

Stockton, California 95204 209. 943. 2021 Plumbing Designer - Design/Builder **HRM Plumbing**

3650 Wilcox Road

209. 931. 9650

Stockton, California 92503 209. 466. 3691 Mechanical Designer - Design/Builder Cornfort Air

209. 466. 4601

REVISIONS:

1607 Tumpike Road

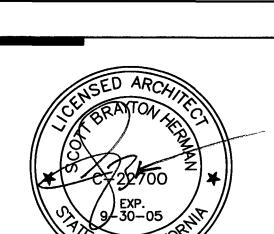
Stockton, California 95201

CONST. DOCUMENTS

9/21/04 PERMIT SET

8/18/04 PLANCHECK SET

7/12/04 FOUNDATION ONLY SET



SHEET TITLE DISABLED ACCESS

12, JULY 2004 NO SCALE DRAWN BY CHECKED BY SBH DRAWING NO. SHEET 2320A-0-6 PROGRAM NO. R-NO.

DRAWING NO: A-0.6

PROJECT NO: HNA 2320

SCHIRMER ENGINEERING CORPORATION 21221 S. WESTERN AVENUE, SUITE 100 ▲ TORRANCE, CA 90501 ▲ PHONE (310) 782-0850 ▲ FAX (310) 782-1970

REQUEST FOR ALTERNATE DESIGN APPROACH

ARENA PARKING STRUCTURE STOCKTON, CALIFORNIA

> Prepared For: Scott Herman

HNA/PACIFIC Parking Consultants/Architects 61 Sea Breeze Ave. Rancho Palos Verdes, CA 90275

SEC Project No. 1904069-000

June 23, 2004

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Fire Protection Engineering . Code Consulting . Risk Control . Security Consulting

June 23, 2004 SEC Project No. 1904069-000

INTRODUCTION

Arena Parking Structure

Stockton, California

The Arena Parking Structure will be a 600 space parking structure with approximately 7,500 square feet of ground level commercial space fronting Hunter Street. The Arena Parking Structure will consist of seven above ground tiers located in the "North Shore District" in the downtown area of Stockton, California (refer to the HNA Pacific Programming Design document dated March 4, 2004). Schirmer Engineering Corporation (SEC) has been retained as part of the design team to address fire protection/life safety issues and develop this alternate design approach.

California Building Code Section 104.2.8 grants the building official the authority to approve alternate building methods "provided the building official finds that the proposed design is satisfactory and complies with the provisions of this code and that the material, method or work offered is, for the purpose intended, at least the equivalent of that prescribed in this code in suitability, strength, effectiveness, fire resistance, durability, safety and sanitation." Specifically, this alternate design request will present an alternate design approach to allow approximately 7,500 square feet of retall and dining use within the open parking garage.

APPLICABLE CODES

- The following codes and standards were used in preparing this alternate design request:
- California Building Code (CBC) 2001 Edition
- California Fire Code (CFC) 2001 Edition
- National Fire Protection Association (NFPA) Fire Protection Handbook ~ 18th Edition • International Conference of Building Officials Handbook to the Uniform Building

PROJECT DESCRIPTION

It is desired that the Arena Parking Structure be designed and constructed in accordance with the requirements for an open parking garage (Group S, Division 4) as defined in CBC Section 311.9. Approximately 7,500 square feet of ground floor space will be utilized for retail (Group M) and dining (Group B) occupancy.

The Arena Parking Structure will be built of Type I, F.R. construction (as required for a Group S-3 structure) and will include approximately 36,000 square feet of floor area per tier, resulting in a total building area of approximately 252,000 square feet. Based on the proposed area and height (i.e., the number of tiers) limitations, the open parking garage may be built of Type II. One-hour construction.

Arena Parking Structure Stockton, California

 The open parking structure will be built of Type I, F,R, construction. CBC Table 3-H, Open Parking Garages Area and Height, and Section 311.9.5 allows a Type II, One-hour construction classification in consideration that such construction classification structure permits an open parking structure to be 10 tiers in height with 50,000 square feet per tier.

A Type I, F.R. building has a greater degree of fire safety than a building of Type II, One-hour construction. For example, the structural frame of a Type I, F.R building is required to be three-hour fire-resistive construction whereas the structural frame of a Type II, One-hour building requires one-hour fire-resistive construction. Therefore, as a mitigating feature the construction classification for the Arena Parking Structure will be increased from Type II, One-hour to Type I, F.R (as required for a Group S-3 parking structure). This substantially increases the exterior wall and opening protection, thereby improving the overall fire protection characteristics of the structure as demonstrated in the following table, which indicates fire-resistive requirements with respect to a property line.

	Required	Provided	
Exterior Bearing Walls	1-hour less than 10 feet NR, N/C elsewhere	4-hour less than 5 feet 2-hour N/C elsewhere	
Exterior Nonbearing Walls	1-hour less than 10 feet NR, N/C elsewhere	4-hour less than 5 feet 2-hour N/C less than 20 feet 1-hour less than 40 feet NR, N/C elsewhere	
Opening Protection	Protected less than 10 feet, not permitted less than 5 feet	Protected less than 20 feet, not permitted less than 5 feet	

- 3. The Group S-3 travel distance limitations for an unsprinklered building will be maintained. Although the parking garage will be classified as an open parking structure, the means of egress travel distance limitations of an enclosed parking structure will be applied. Accordingly, the travel distance limitation to an exit will be 200 feet, as opposed to 300 feet permitted in an unsprinklered open parking garage. The reduced travel distance will result in decreased occupant exit trave times than would otherwise be exhibited in an open parking structure.
- 4. The retail and dining spaces will be provided with exiting facilities independent from the parking garage. The commercial components will front directly on a public way, thereby permitting the primary means of egress to lead directly to the exterior. Where applicable, secondary means of egress will be provided by means of a service corridor, which does not lead through the parking component. This means of egress arrangement will completely isolate the retail and dining spaces from the parking garage from an exiting and life safety perspective.

Arena Parking Structure Stockton, California

June 23, 2004 SEC Project No. 1904069-000

requirements and will be separated from the retail and dining occupancies by a twohour fire-resistive occupancy separation.

2. A Class I standpipe system will be provided throughout the open parking structure. In consideration that the Stockton area is subject to freezing temperatures, a Class Il standpipe system will not be provided. Accordingly, Class I standpipe outlets will be provided as required for the Class II standpipe system per CBC Table 9-A footnote 4. In this regard, the Class I standpipe system will be a dry-pipe system.

3. Section 406.3.4 of the 2003 International Building Code (IBC) allows mixed occupancies in an open parking structure provided that such mixed occupancies are separated from each other per IBC Section 302.3 and Table 302.3.2 (i.e., a twohour occupancy separation is required between retail/dining use and an open parking garage).

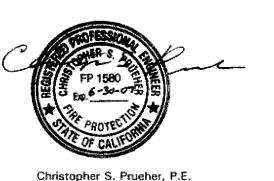
4. Section 30.8.1.6 of the 2003 NFPA 5000, Building Construction and Safety Code, also allows portions of an open parking structure located within a building used for another purpose (such as retail or dining use) provided that such portions have the principal supporting members and bearing walls protected by a two-hour fireresistive separation.

Although the 2003 IBC and 2003 NFPA 5000 are not yet adopted as the next State of California building code, it is worth noting that several other model building codes permit mixed occupancies (such as retail and dining use) within open parking structures without any more fire protection of life safety features other than a fire-resistive occupancy

CONCLUSION

This alternate design request presents an approach to allow 7,500 square feet of retail and dining use within the ground level of the Arena Parking Structure. It is SEC's opinion that the proposed mitigating features and considerations stated herein will meet or exceed the level of fire protection and life safety intended by the applicable provisions of the CBC.

Prepared by: SCHIRMER ENGINEERING CORPORATION



Associate Consultant

Reviewed by: Tole Vongani Tuk Vorapani, E.I.T.

Arena Parking Structure Stockton, California

CONCLUSION ..

SEC Project No. 1904069-000

TABLE OF CONTENTS

APPLICABLE CODES.. PROJECT DESCRIPTION.. CODE INTENT .. PROPOSED DESIGN AND JUSTIFICATION... ALTERNATE DESIGN FEATURES... FURTHER JUSTIFICATION ... ADDITIONAL CONSIDERATIONS...

Arena Parking Structure Stockton, California

June 23, 2004 SEC Project No. 1904069-000

APPLICABLE CODE REQUIREMENTS

CBC Section 311,9.2 defines an open parking garage as "a structure of Type I or II construction with uniformly distributed perimeter openings on two or more sides used exclusively for the parking or storage of private or pleasure-type motor vehicles." The CBC permits the ground parking level to contain an office area, waiting area, and/or toilet rooms having a total area of not more than 1,000 square feet. Such areas are not required to be separated from the open parking garage.

CODE INTENT

Despite the presence of combustible materials and finishes inherent with automobiles, the potential for rapid-fire development in vehicles is low. In parking garages with exterior openings that dissipate smoke and hot gases, the likelihood of a serious fire is even less. Accordingly, the CBC establishes special provisions for open parking garages, which are generally less restrictive than that required for enclosed parking structures. The open parking garage special provisions are less restrictive in consideration of the benefits associated with the natural ventilation properties of open parking structures. Since open parking structures are required to be provided with uniformly distributed openings on two or more sides, a means of natural ventilation is provided, thereby eliminating the possibility for an accumulation of products of combustion generated by a vehicle fire.

The CBC permits the ground parking level to contain an office area, waiting area, and/or toilet rooms having a total area of not more than 1,000 square feet without provision of a fire-resistive occupancy separation. It is SEC's opinion that the unseparated office use is permitted in consideration that such occupancy will not increase the level of combustible loading and potential ignition sources and will therefore not introduce a level of hazard greater than the automobiles located within the parking structure. This exception to allow office, waiting and toilet rooms within an open parking garage first appeared in the 1973 Edition of the Uniform Building Code and appears unchanged in the 2001 CBC.

PROPOSED DESIGN AND JUSTIFICATION

Alternate Design Features

The proposed alternate design approach will include mitigating features and considerations intended to minimize the hazard associated with locating the retail and dining occupancies within the ground level of the open parking garage. The mitigating features and considerations include the following:

1. A two-hour occupancy separation with one- and one-half-hour opening protection will separate the commercial retail and dining spaces from the parking garage. Th occupancy separation will be provided on the basis that a one-hour occupancy separation with one-hour opening protection is required between retail (Group M) or dining (Group B) occupancies and an enclosed parking garage (Group S-3). Accordingly, the proposed two-hour occupancy separation with one- and one-halfhour opening protection will provide improved fire-resistive compartmentalization between the retail/dining occupancies and the open parking garage. The two-hour fire-resistive rated occupancy separation with one- and one-half-hour opening protection will limit smoke migration from the retail or dining occupancies into the parking garage. Note that a fire-resistive occupancy separation is not required between the Group M and Group B occupancies. Arena Parking Structure Stockton, California

June 23, 2004 SEC Project No. 1904069-000

Further Justification

In addition to the alternate design features to permit the retail and dining occupancies within the ground level of the open parking structure, the following includes a brief discussion of relevant full-scale fire tests and research substantiating the fact that automobile fires do not present substantial fire hazard concerns:

1. Tests were conducted in 1972 by the American Iron and Steel Institute (AISI) in a multistory open parking structure with exposed steel structural members1. Three automobiles parked next to each other, each with a fuel tank containing 10 gallons of gasoline, were used as the test ignition and fuel source. The center car was gutted 48 minutes after crumpled newspapers in its rear seat were ignited. The contents of its fuel tank were spilled or consumed, but the fire did not spread to the adjacent cars. Furthermore, the overhead structural steel was essentially unaffected. The temperature of the steel remained far below critical failure levels throughout the test.

2. Similar tests conducted by the British at Borehamwood fire test station yielded similar results in that automobile fires are not likely to spread to adjacent vehicles.2

3. A survey of parking garage fires was conducted in 1979 by the Marketing Research Associates (MRA)3. Of the few incidents reported, the major findings include substantial evidence that a fire initiated in one car remains confined to that car. Of 89 motor vehicle fires reported over the seven-year study period, neither automobile nor building damage were found to be of significant monetary value. Additionally, there was no loss of life reported and only one personal injury of a

Since the automobile fire tests and research indicate that there is a low fire hazard (in terms of fire spread potential), it can be inferred that the building code requirements should not be concerned with an exposure fire originating from the parking component affecting the retail and dining occupancies. Furthermore, the automatic sprinkler protection and two-hour fire-resistive occupancy separation provided for the retail and dining occupancies will eliminate the potential for a fire to spread beyond the commercial occupancies and affect the parking component.

ADDITIONAL CONSIDERATIONS

In addition to the aforementioned mitigating features and further justification associated with the parking garage fire tests and research, the following features should be considered for this alternate design request:

1. The retail (Group M) and dining (Group B) use will be protected throughout by an automatic sprinkler system. Automatic sprinklers provide an exceptional level of protection from a fire event. Properly engineered and maintained systems can be expected to be highly effective and reliable in responding to a fire to control its development. The parking structure is exempt from automatic sprinkler protection

Gewain, R. G., "Fire Experience and Fire Tests in Automobile Parking Structures," Fire Journal, Butcher, E. G., et al., "Fire and Car-Park Buildings," Fire Note No. 10, Ministry of Technology and Fire Offices' Committee/Joint Fire Research Organization, London, UK, 1968.

Dr. Leslie Harris, "1979 Update of the Survey of Fire Experience of Fire Exposure in Automobile Parking Structures in the United States and Canada"

CITY OF STOCKTON COMMUNITY DEVELOPMENT DEPARTMENT City Hall • 425 N. El Dorado Street • Stockton, CA 95202-1997

June 22, 2004

Scott Herman 61 Sea Breeze Avenue

Rancho Palos Verdes, CA 90275

COY AND ARENA PARKING STRUCTURES - REQUEST FOR AN ALTERNATE DESIGN APPROACH

I have had the opportunity to review your request to construct the parking structures as a mixed occupancy facility consisting of Groups M, B and S-4 Occupancies. The California Building Code, as you are aware, defines an open parking garage as a structure used exclusively for the parking or storage of pleasure type motor vehicles.

I agree that the mitigation offered will limit the fire loading and possibility of conflagration to a level consistent with an S-4 Occupancy. The proposed mitigation measures shall include the following:

1. The one-hour occupancy separation separating the M and B occupancies

from the S-4 shall be increased to a two-hour separation with one and one-half hour protected openings thus affording extra separation protection from conflagration of fire.

- 2. The allowable Type II one-hour construction will be upgraded to Type I Fire-Resistive thus significantly improving the overall fire protection characteristics of the building.
- 3. The travel distance to exits will remain limited to 200 feet as opposed to the 300 feet allowed by the CBC for an S-4 Occupancy.
- 4. The Group M and B Occupancies will be provided with automatic fire sprinklers to limit the fire loading from the 1st level.

Scott Herman June 22, 2004

COY AND ARENA PARKING STRUCTURES - REQUEST FOR AN ALTERNATE DESIGN APPROACH

I concur with SEC's conclusion that the alternative design as proposed will provide at least the same level of life safety and fire safety protection as a conventionally designed S-4 Occupancy. I hereby accept this alternative design and mitigation pursuant to the authority vested in CBC Sec. 104.2.8(2001).

JAMES E. GLASER, DIRECTOR COMMUNITY DEVELOPMENT DEPARTMENT

DALE T. HIMES, DEPUTY DIRECTOR BUILDING DIVISION

cc: James Glaser, Director/Community Development Department Jay Coffey, Construction Manager

> BERRYMAN & HENIGAR APPROVED

STOCKTON, **CALIFORNIA**

OWNER: City of Stockton

DESIGN BUILDER:

F&H Construction 4945 Waterloo Road Stockton, California 95215 209. 931. 3738

CONSULTANTS:

Architect - Parking Consultant HNA / Pacific 61 Sea Breeze Avenue Rancho Palos Verdes, California 90275 310. 544. 8670

Design Architect
Wenell Mattheis Bowe 246 E. Main Street Stockton, California 95202

530. 894. 5345

209. 943. 2021

209. 931. 9650

209. 944. 9110 Structural Engineer
Jessen-Wright Structural Engineers 113 West 8th Avenue, Suite A Chico, California 95926

CMI Engineer
Siegfried Engineering, Inc. 4045 Coronado Avenue Stockton, California 95204

Plumbing Designer - Design/Builder **HRM Plumbing** 3650 Wilcox Road Stockton, California 95215

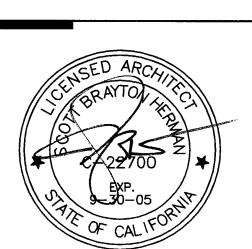
Electrical Designer - Design/Builder
Collins Electrical 611 W. Fremont Street Stockton, California 92503 209. 466. 3691

Mechanical Designer - Design/Builder Comfort Air 1607 Turnpike Road Stockton, California 95201 209. 466. 4601

CONST. DOCUMENTS

REVISIONS:

9/21/04 PERMIT SET 8/18/04 PLANCHECK SET 7/12/04 FOUNDATION ONLY SET



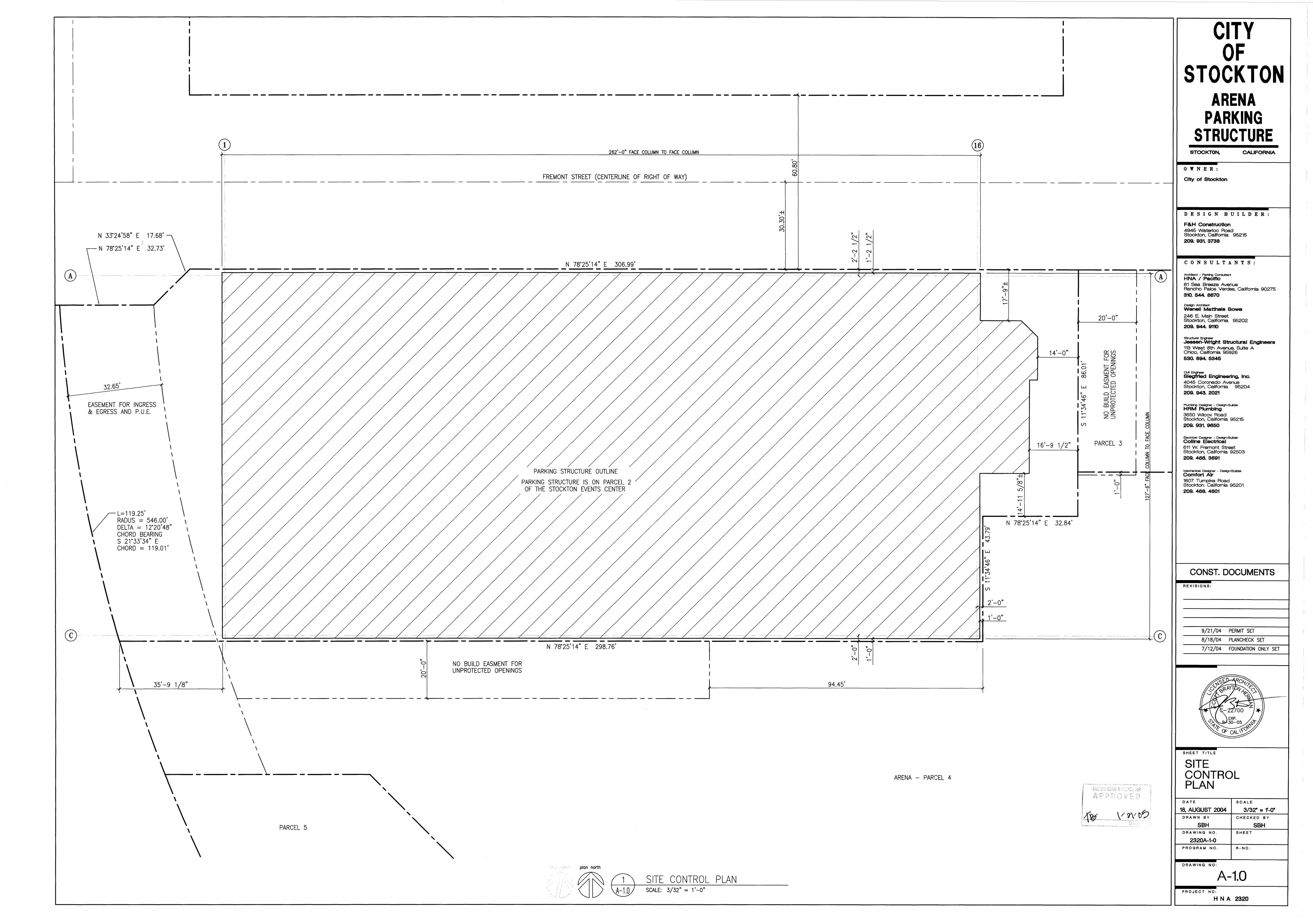
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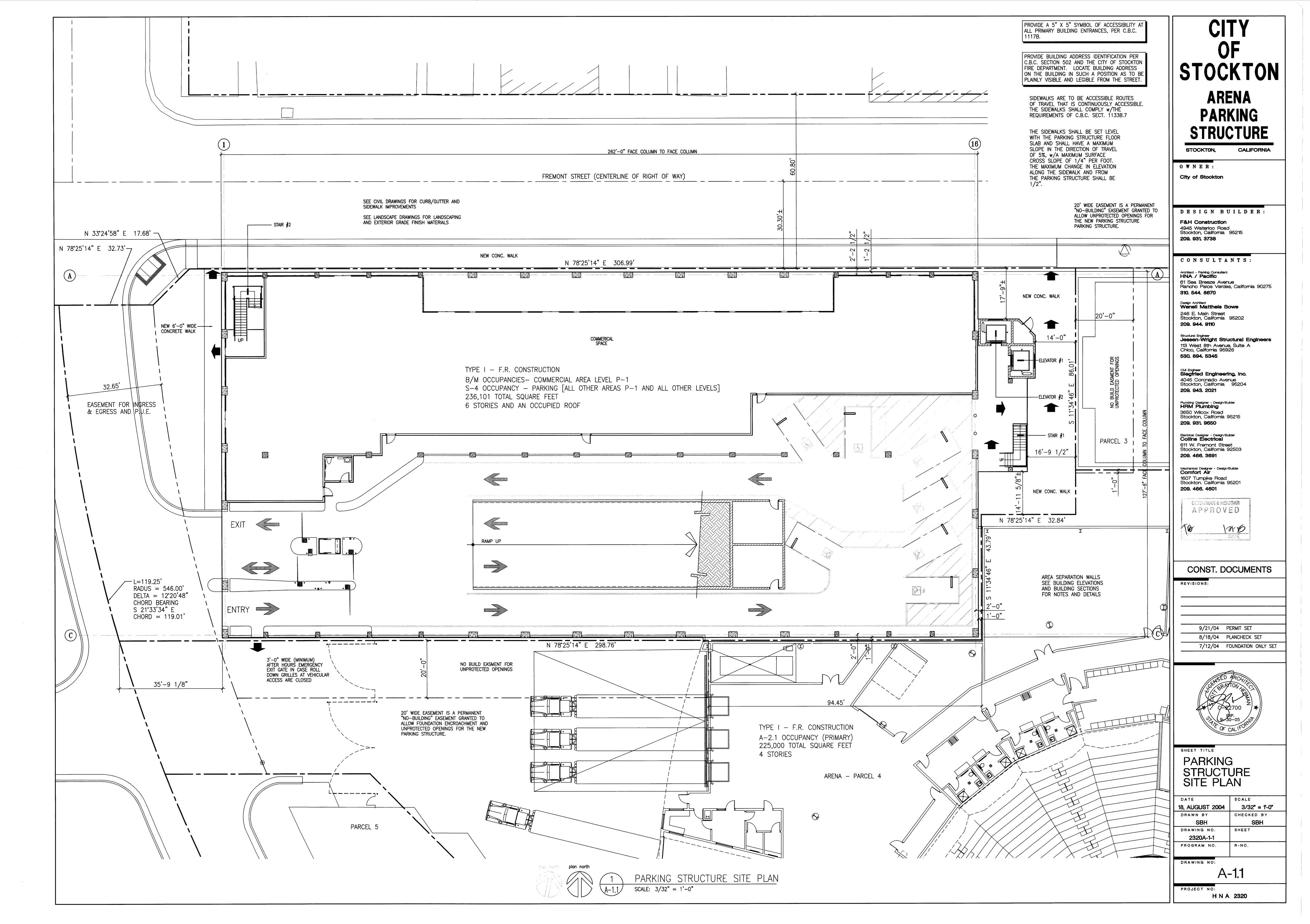
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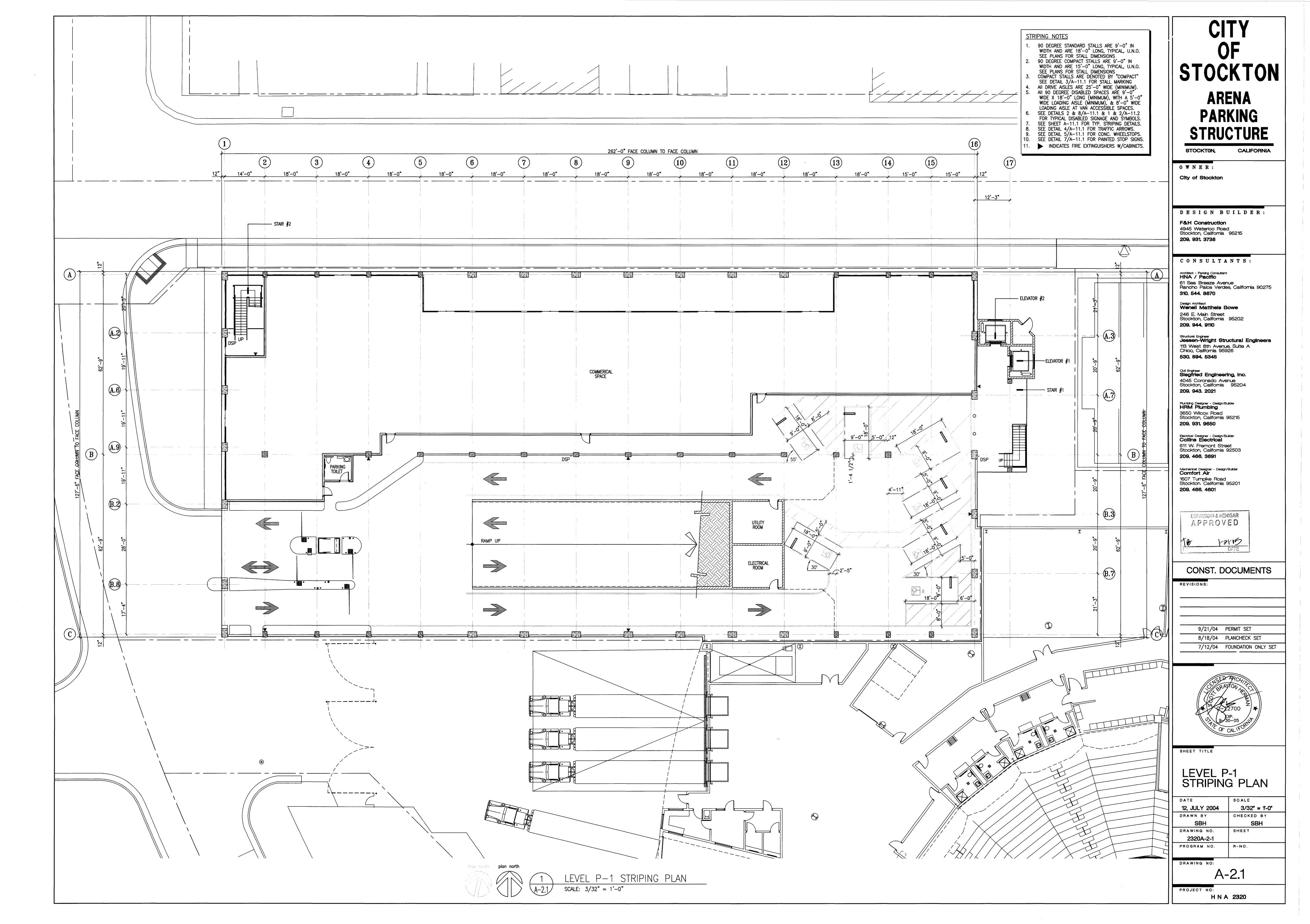
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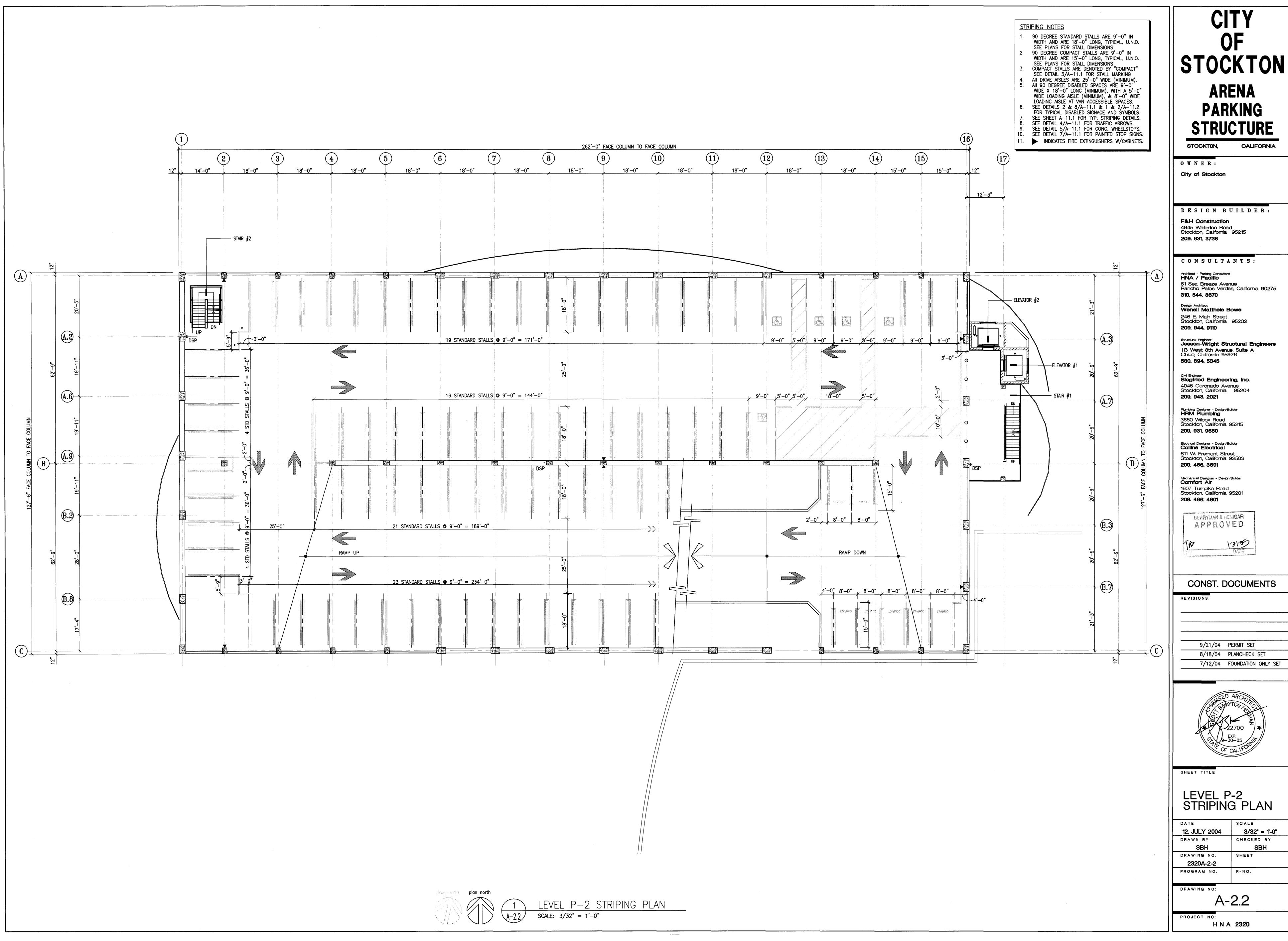
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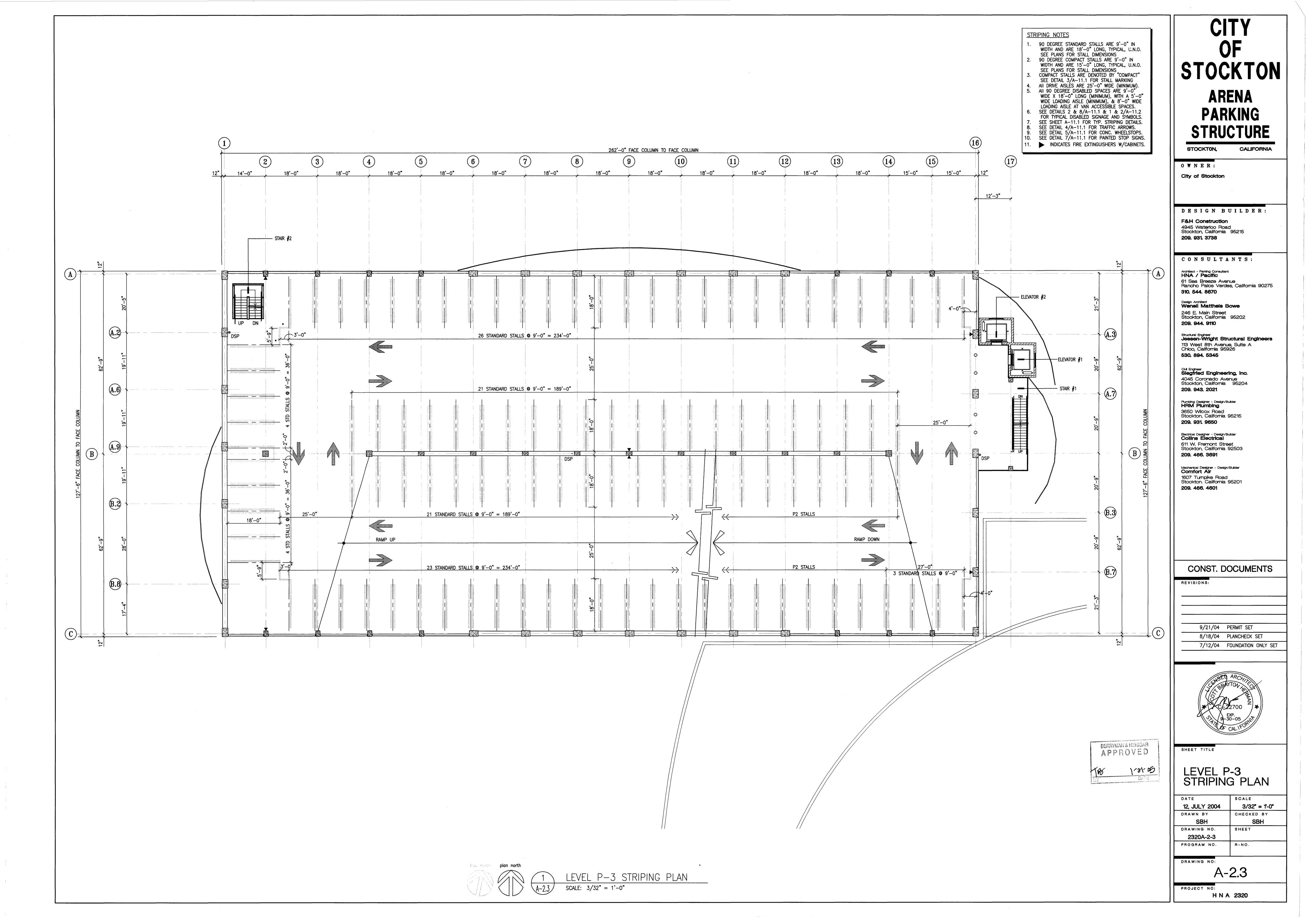


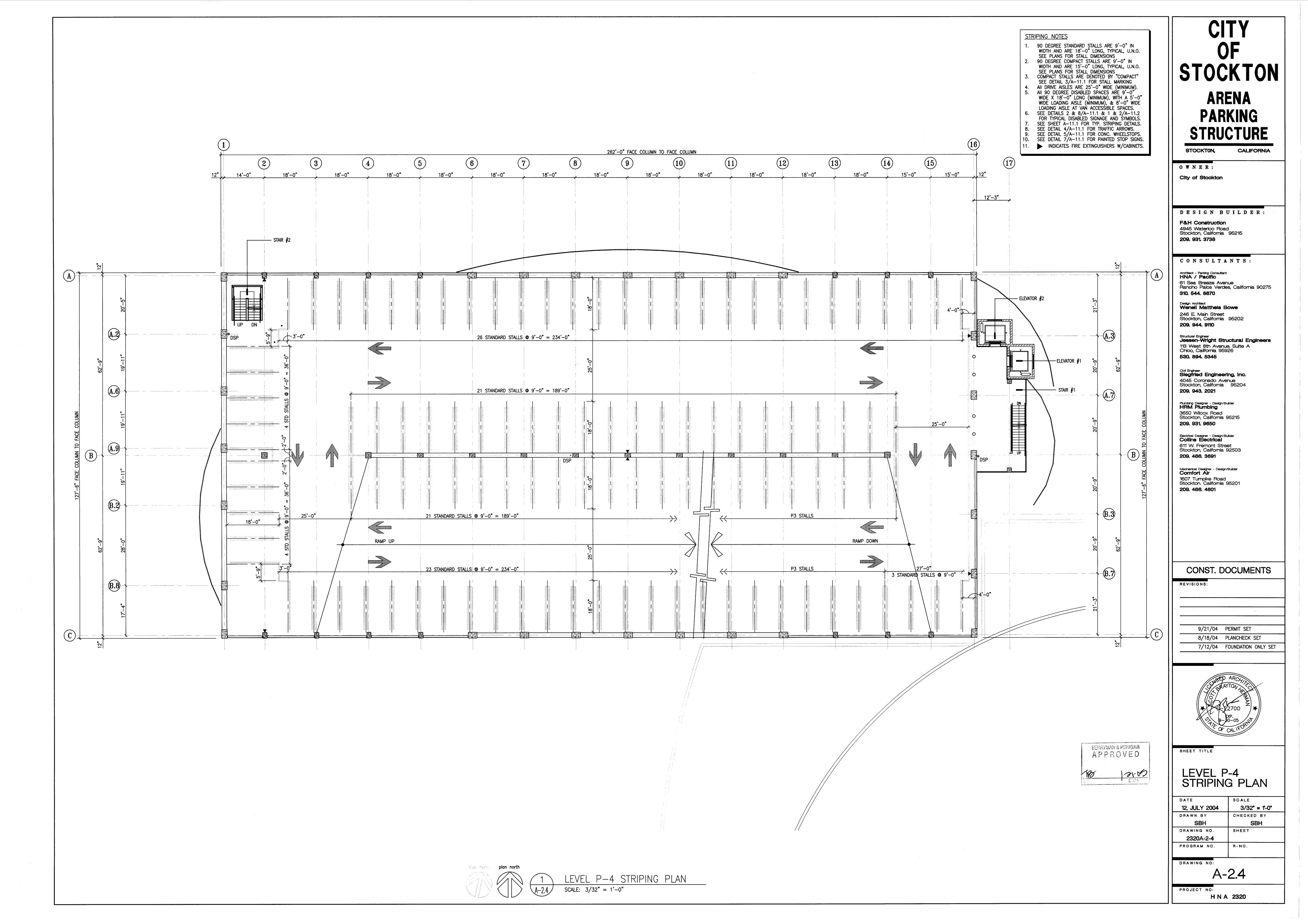


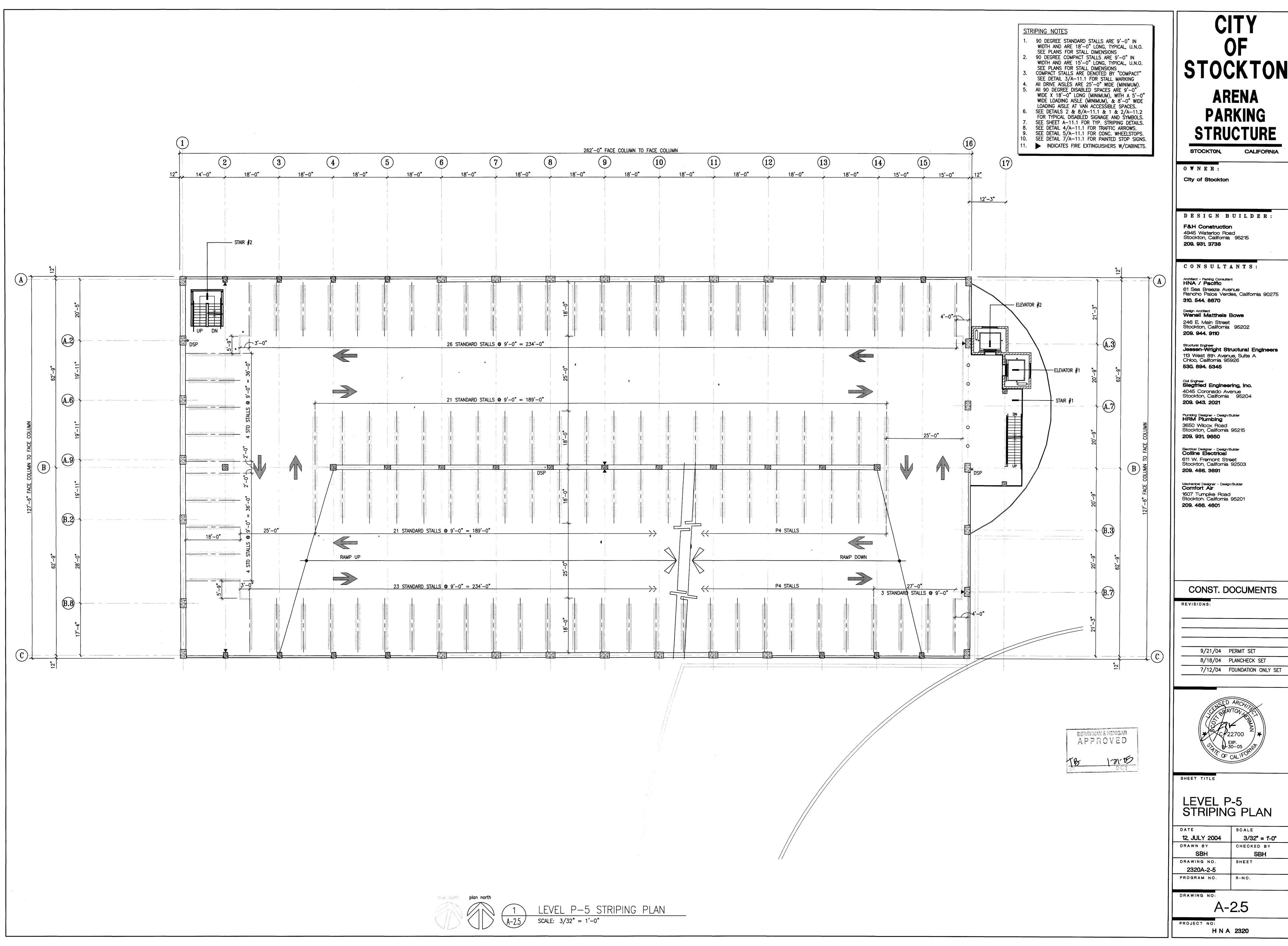


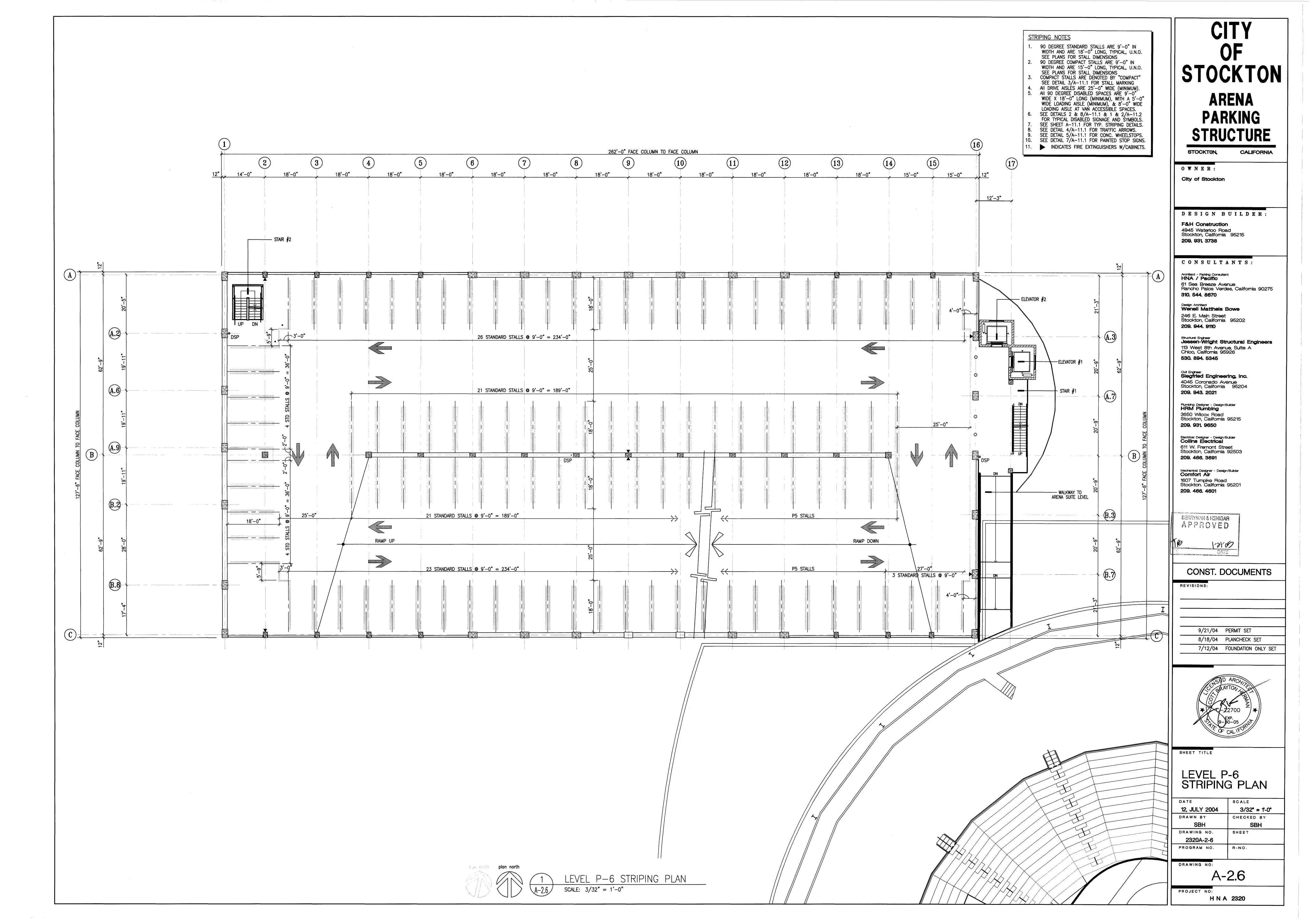


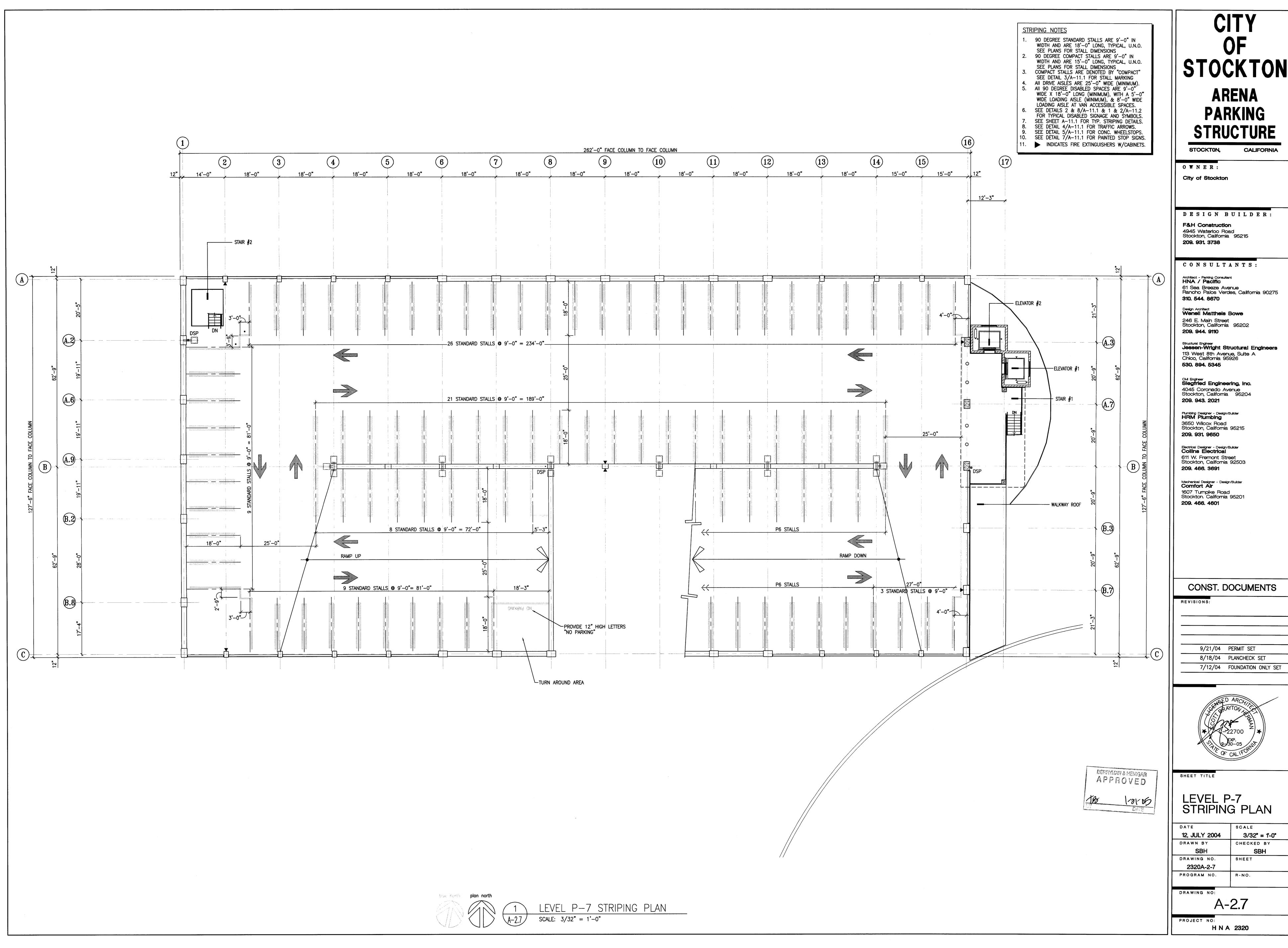
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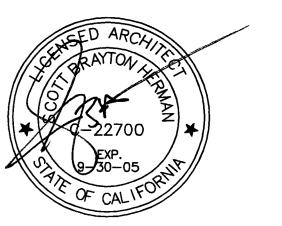




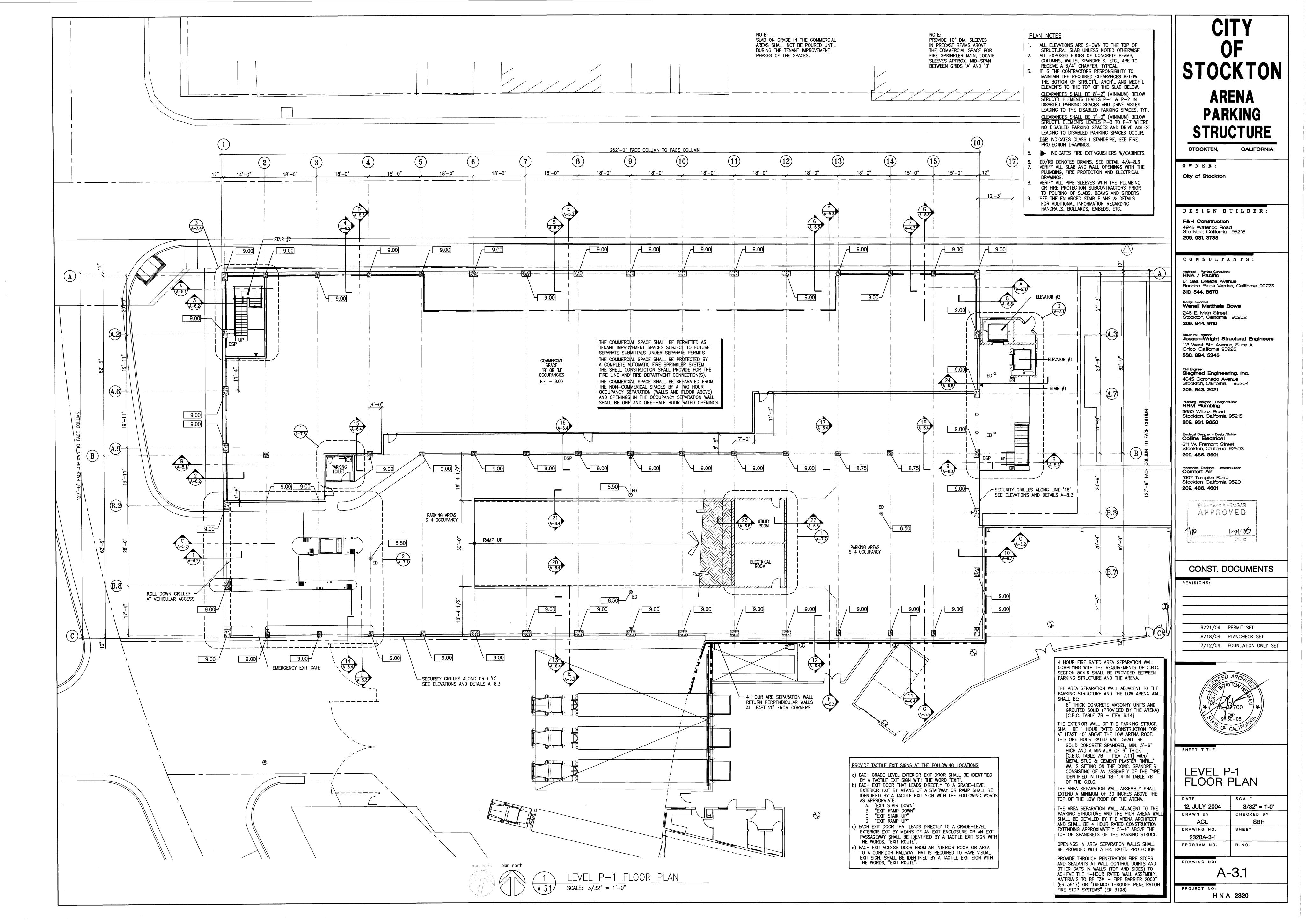


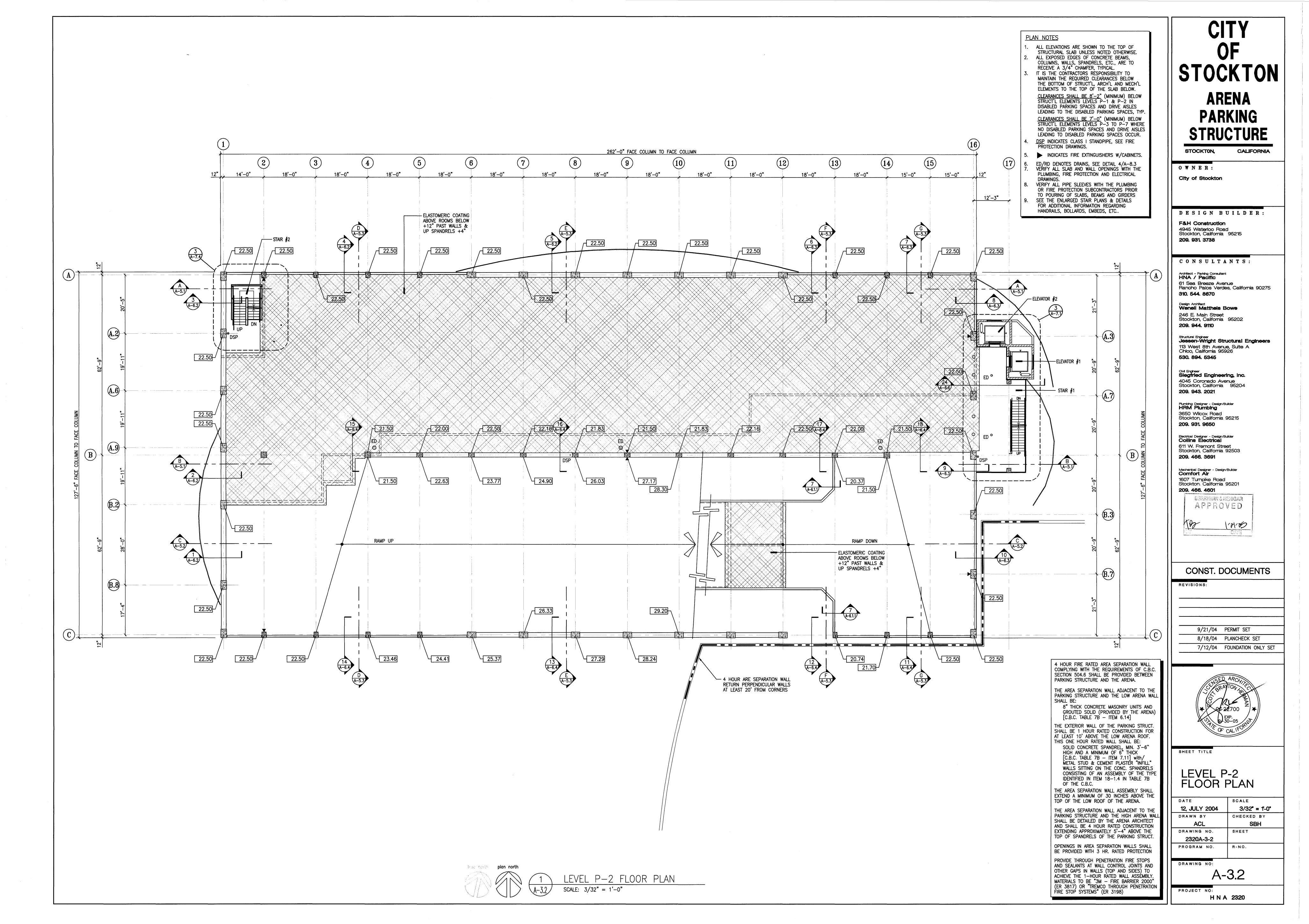


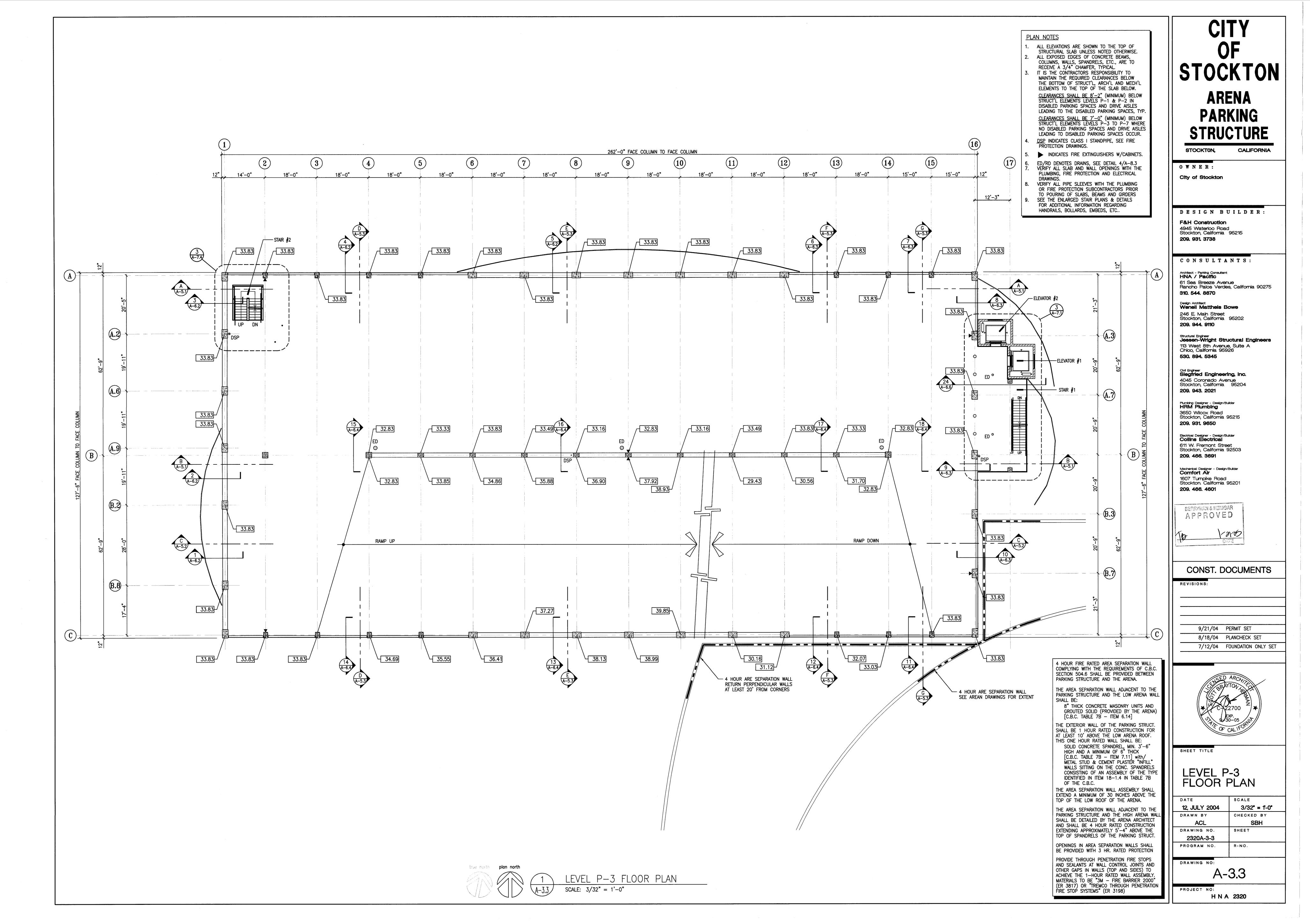


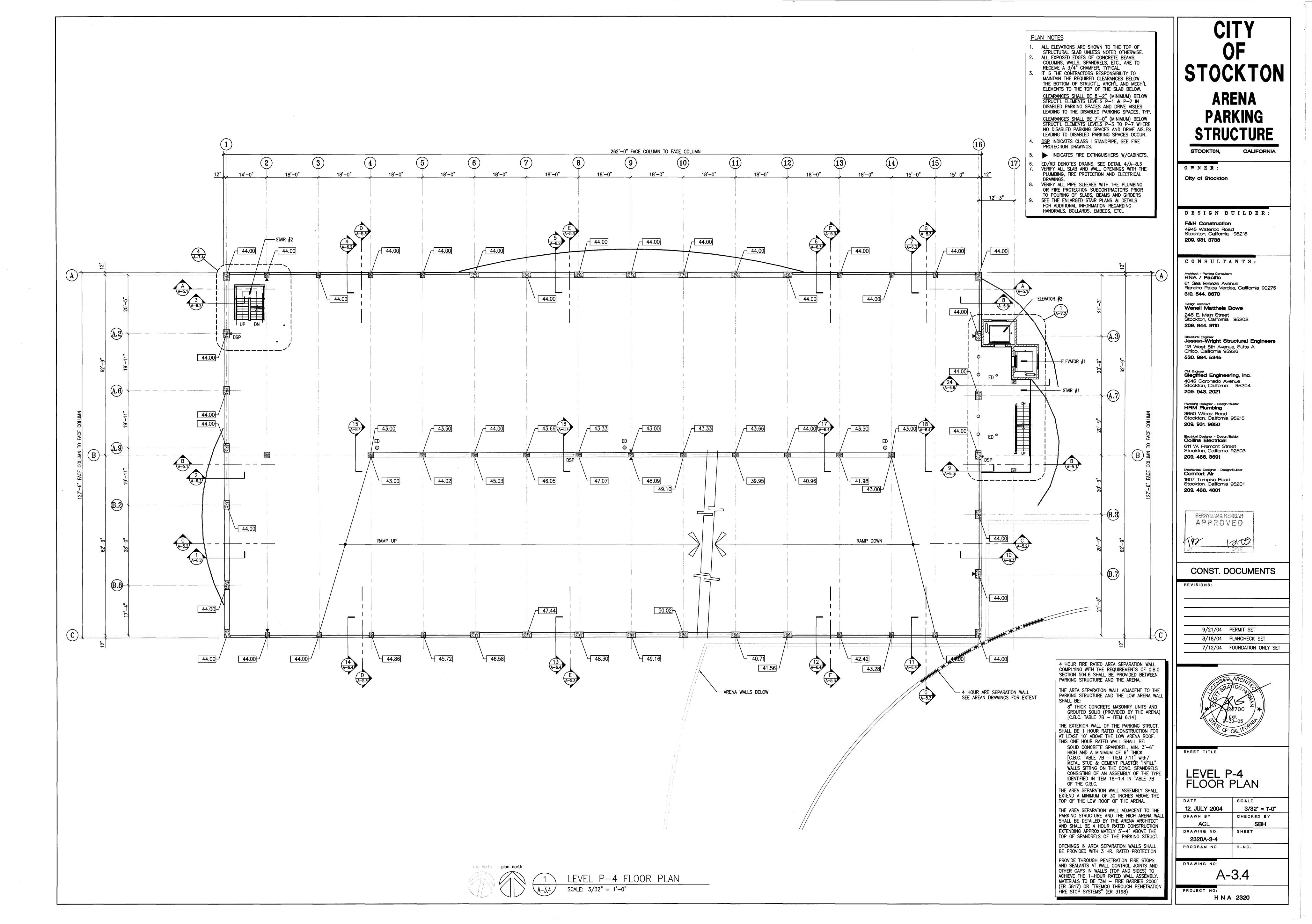


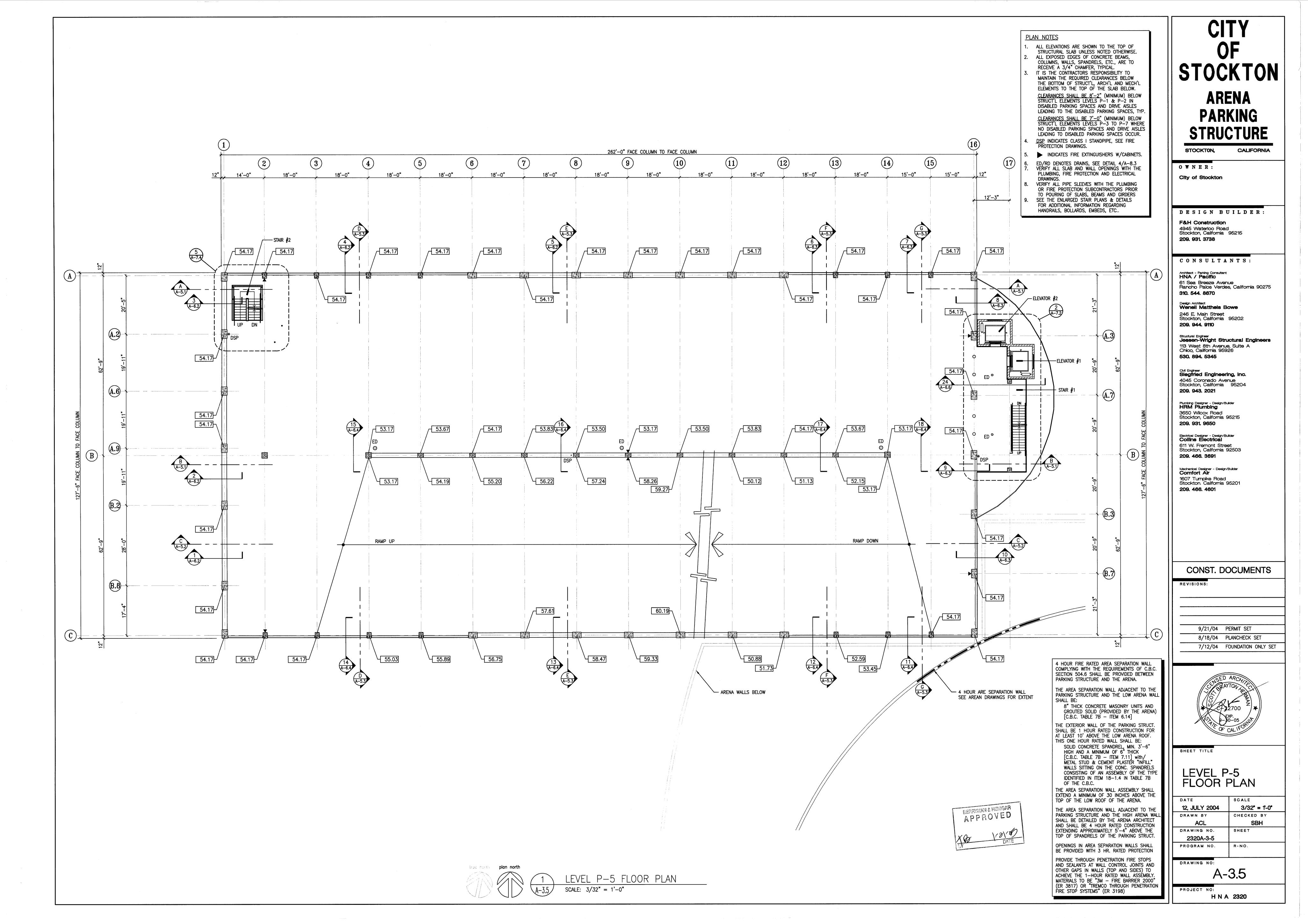
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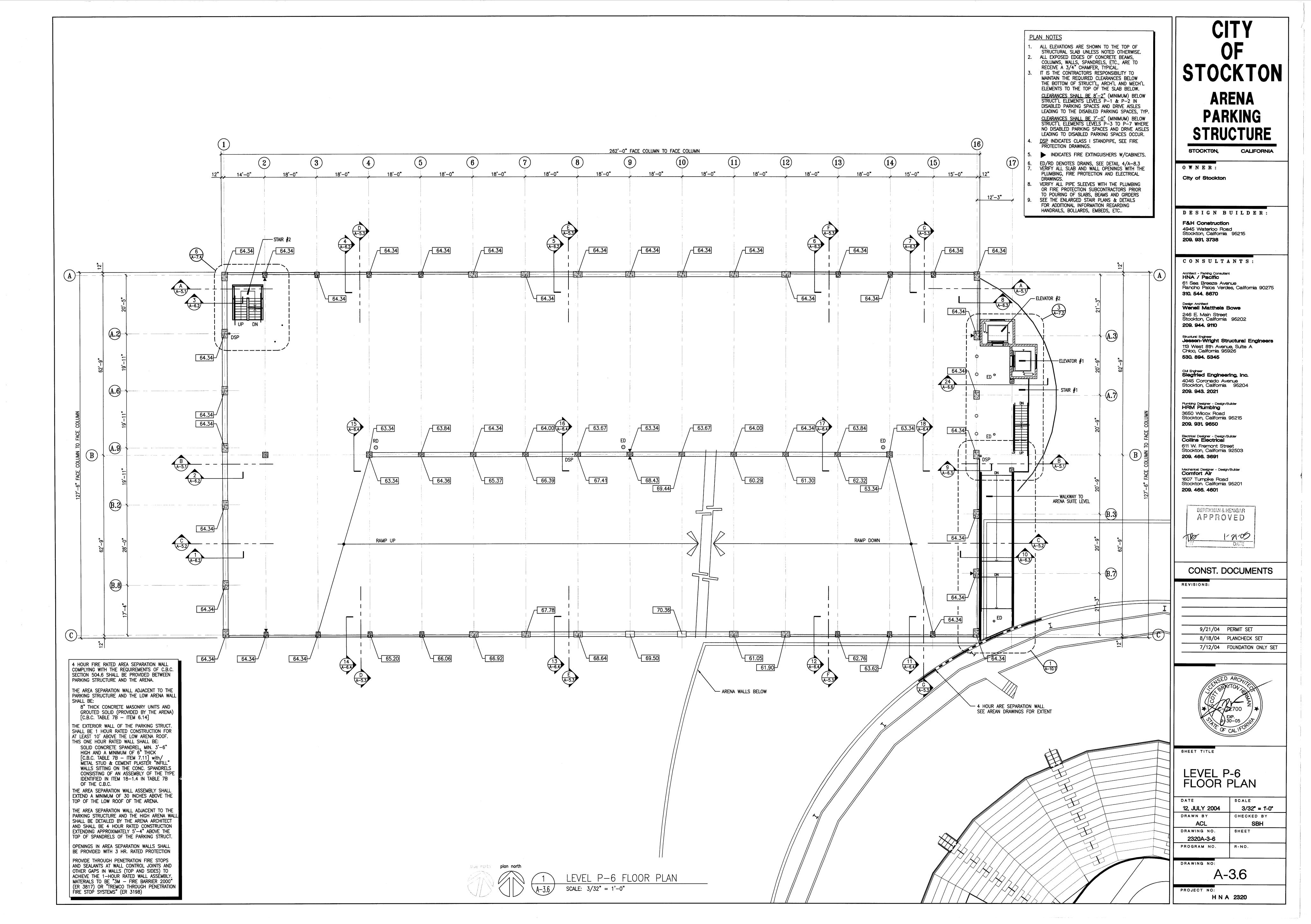


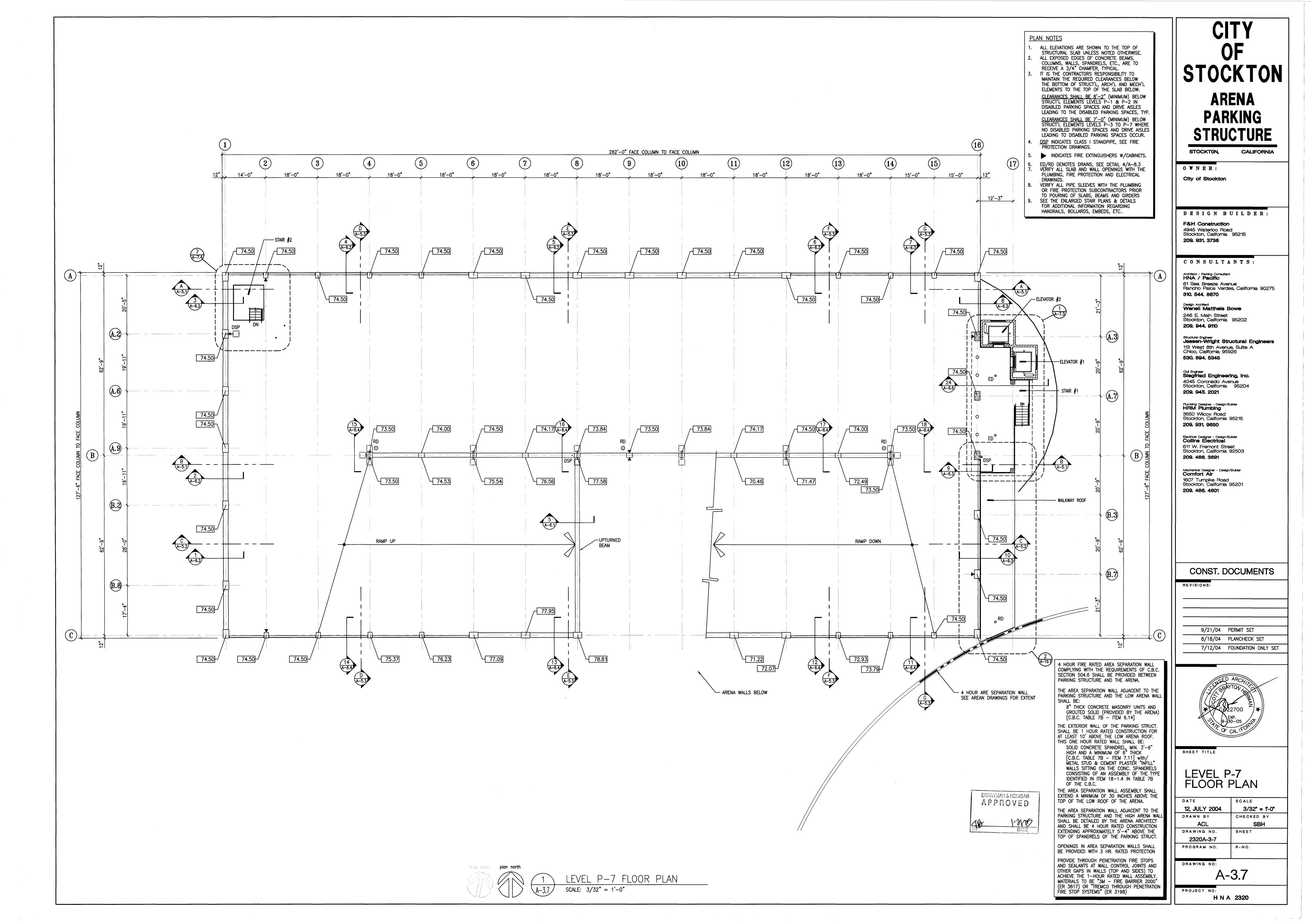


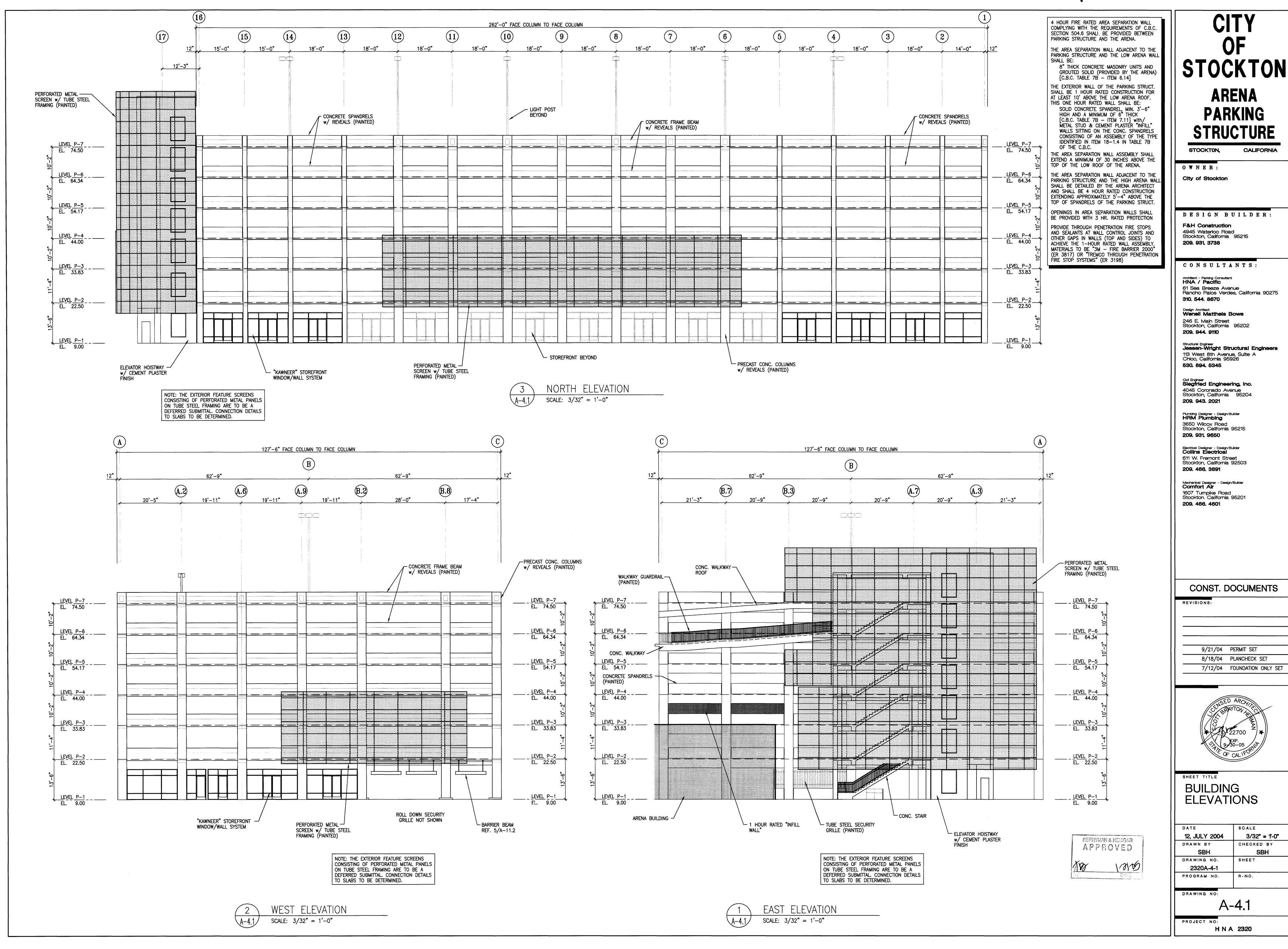


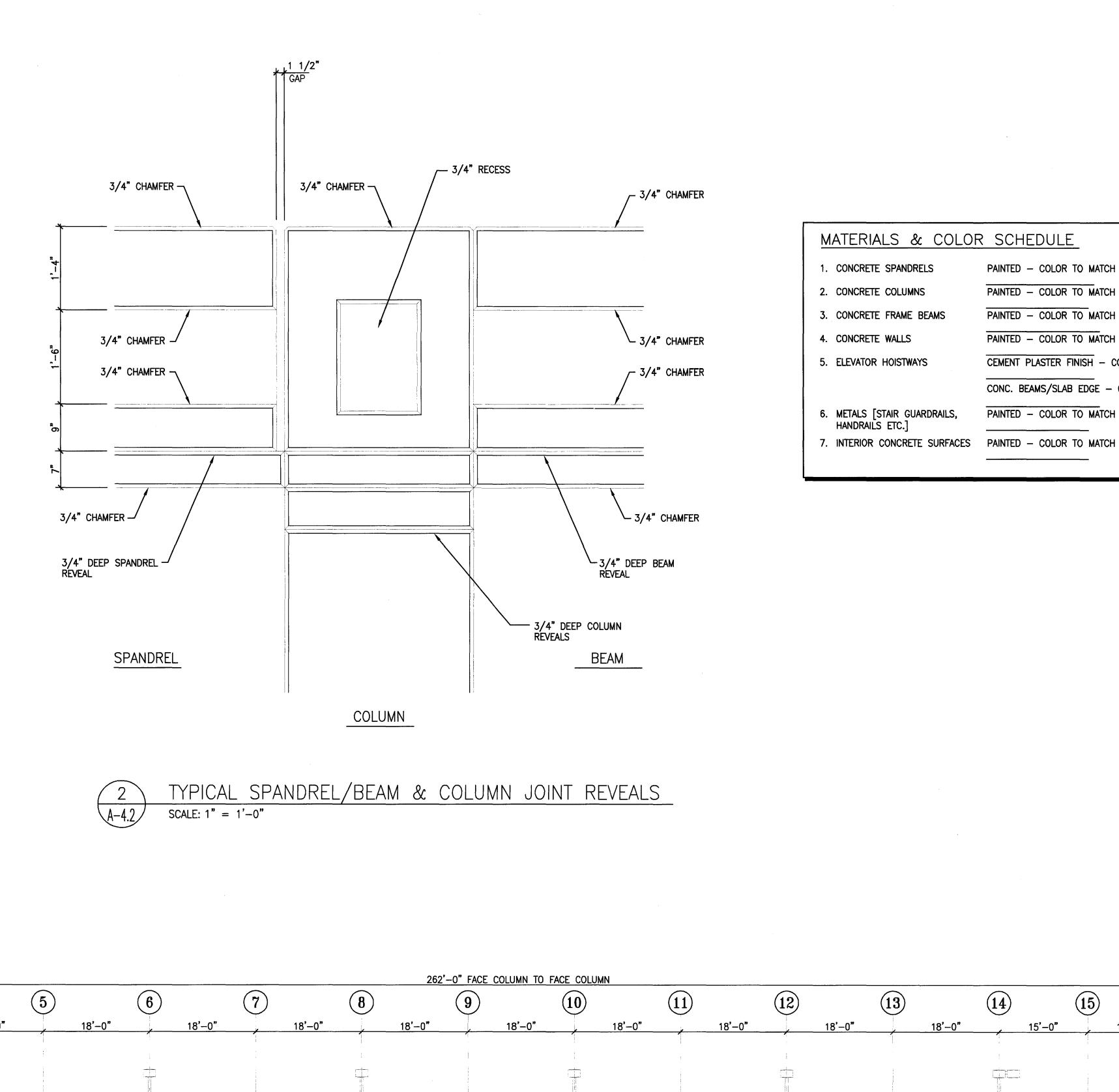








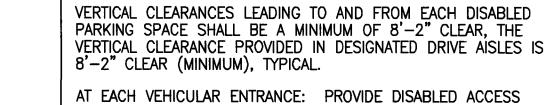




CONCRETE SPANDRELS -

w/ REVEALS (PAINTED)

PRECAST CONC. COLUMNS —/
w/ REVEALS (PAINTED)



AUTHORIZATION SIGNS.

VERTICAL CLEARANCES AT DISABLED PARKING SPACES SHALL BE MINIMUM 8'-2" CLEAR TYPICAL.

ALL OTHER SPACES SHALL HAVE A MINIMUM 7'-0" CLEARANCE.

PAINT SCHEDULE

THE FOLLOWING SURFACES ARE TO RECEIVE PAINT, COLORS ARE TO BE AS SELECTED BY OWNER.

- EXTERIOR CONCRETE SPANDRELS and FRAME BEAMS
- top, exterior face, interior face
- EXTERIOR CONCRETE COLUMNS all interior and exterior faces

The second secon

- EXTERIOR CONCRETE SLAB EDGE top edge to face of spandrel/beam, face of slab
- and slab soffit to drip reveal
- INTERIOR CONCRETE COLUMNS
- all surfaces exposed to view CONCRETE WALLS (exterior)
- exterior faces exposed to view

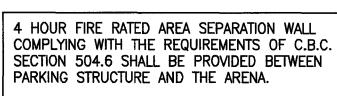
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LEVEL P-1 EL. 9.00

- INTERIOR CONCRETE BEAMS AND SLAB SOFFITS
- all beam surfaces and slab soffits to perimeter drip reveals INTERIOR CONCRETE WALLS AND CMU WALLS
- all surfaces exposed to view (excluding basement level)
- CONCRETE STAIRS all surfaces exposed to view (excluding treads)
- STEEL HANDRAILS & GUARDRAILS
- all surfaces exposed to view (excluding treads)

 10. HOLLOW METAL DOORS AND FRAMES
- all surfaces exposed to view (including louvers)
- 11. MISCELLANEOUS METALS
- all surfaces exposed to view (excluding galv. barrier cables) 12. ELEVATOR HOISTWAYS

not scheduled (color coated cement plaster finish)



THE AREA SEPARATION WALL ADJACENT TO THE PARKING STRUCTURE AND THE LOW ARENA WALL

8" THICK CONCRETE MASONRY UNITS AND GROUTED SOLID (PROVIDED BY THE ARENA) [C.B.C. TABLE 7B - ITEM 6.14]

THE EXTERIOR WALL OF THE PARKING STRUCT. SHALL BE 1 HOUR RATED CONSTRUCTION FOR AT LEAST 10' ABOVE THE LOW ARENA ROOF. THIS ONE HOUR RATED WALL SHALL BE: SOLID CONCRETE SPANDREL, MIN. 3'-6"

OF THE C.B.C. THE AREA SEPARATION WALL ASSEMBLY SHALL

THE AREA SEPARATION WALL ADJACENT TO THE PARKING STRUCTURE AND THE HIGH ARENA WAL SHALL BE DETAILED BY THE ARENA ARCHITECT AND SHALL BE 4 HOUR RATED CONSTRUCTION

BE PROVIDED WITH 3 HR. RATED PROTECTION PROVIDE THROUGH PENETRATION FIRE STOPS AND SEALANTS AT WALL CONTROL JOINTS AND OTHER GAPS IN WALLS (TOP AND SIDES) TO ACHIEVE THE 1-HOUR RATED WALL ASSÉMBLY MATERIALS TO BE "3M - FIRE BARRIER 2000"

> BERRYMAN & HENIGAR APPROVED

CONST. DOCUMENTS

ARENA

PARKING

STRUCTURE

DESIGN BUILDER:

CALIFORNIA

STOCKTON,

City of Stockton

F&H Construction

209. 931. 3738

Architect - Parking Consultant HNA / Pacific

Design Architect
Wenell Matthels Bowe

Stockton, California 95202

113 West 8th Avenue, Suite A

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1607 Turnpike Road

Stockton, California 92503

3650 Wilcox Road Stockton, California 95215

Chico, California 95926

246 E Main Street

209. 944. 9110

530. 894. 5345

209. 943. 2021

209. 931. 9650

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209. 466. 4601

310. 544. 8670

4945 Waterloo Road

Stockton, California 95215

CONSULTANTS:

61 Sea Breeze Avenue Rancho Palos Verdes, California 90275

Structural Engineer

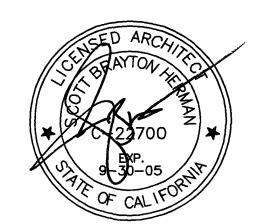
Jessen-Wright Structural Engineers

OWNER:

REVISIONS:

9/21/04 PERMIT SET

8/18/04 PLANCHECK SET 7/12/04 FOUNDATION ONLY SET



SHEET TITLE BUILDING **ELEVATIONS**

SCALE 12, JULY 2004 $3/32^{\circ} = 1'-0^{\circ}$ CHECKED BY DRAWN BY SHEET DRAWING NO.

PROGRAM NO. R-NO. DRAWING NO:

2320A-4-2

A-4.2

PROJECT NO: HNA 2320

SOUTH ELEVATION SCALE: 3/32" = 1'-0"

CONC. WALL (PAINTED)

TUBE STEEL SECURITY
GRILLE & GATES (PAINTED)

- EMERGENCY EXIT GATE

HIGH AND A MINIMUM OF 6" THICK [C.B.C. TABLE 7B — ITEM 7.11] with/ METAL STUD & CEMENT PLASTER "INFILL" WALLS SITTING ON THE CONC. SPANDRELS CONSISTING OF AN ASSEMBLY OF THE TYP IDENTIFIED IN ITEM 18-1.4 IN TABLE 7B EXTEND A MINIMUM OF 30 INCHES ABOVE THE TOP OF THE LOW ROOF OF THE ARENA. EXTENDING APPROXIMATELY 5'-4" ABOVE THE TOP OF SPANDRELS OF THE PARKING STRUCT. OPENINGS IN AREA SEPARATION WALLS SHALL 12'-3" (ER 3817) OR TREMCO THROUGH PENETRATION FIRE STOP SYSTEMS" (ER 3198)

PAINTED - COLOR TO MATCH

PAINTED - COLOR TO MATCH

PAINTED — COLOR TO MATCH

PAINTED - COLOR TO MATCH

PAINTED - COLOR TO MATCH

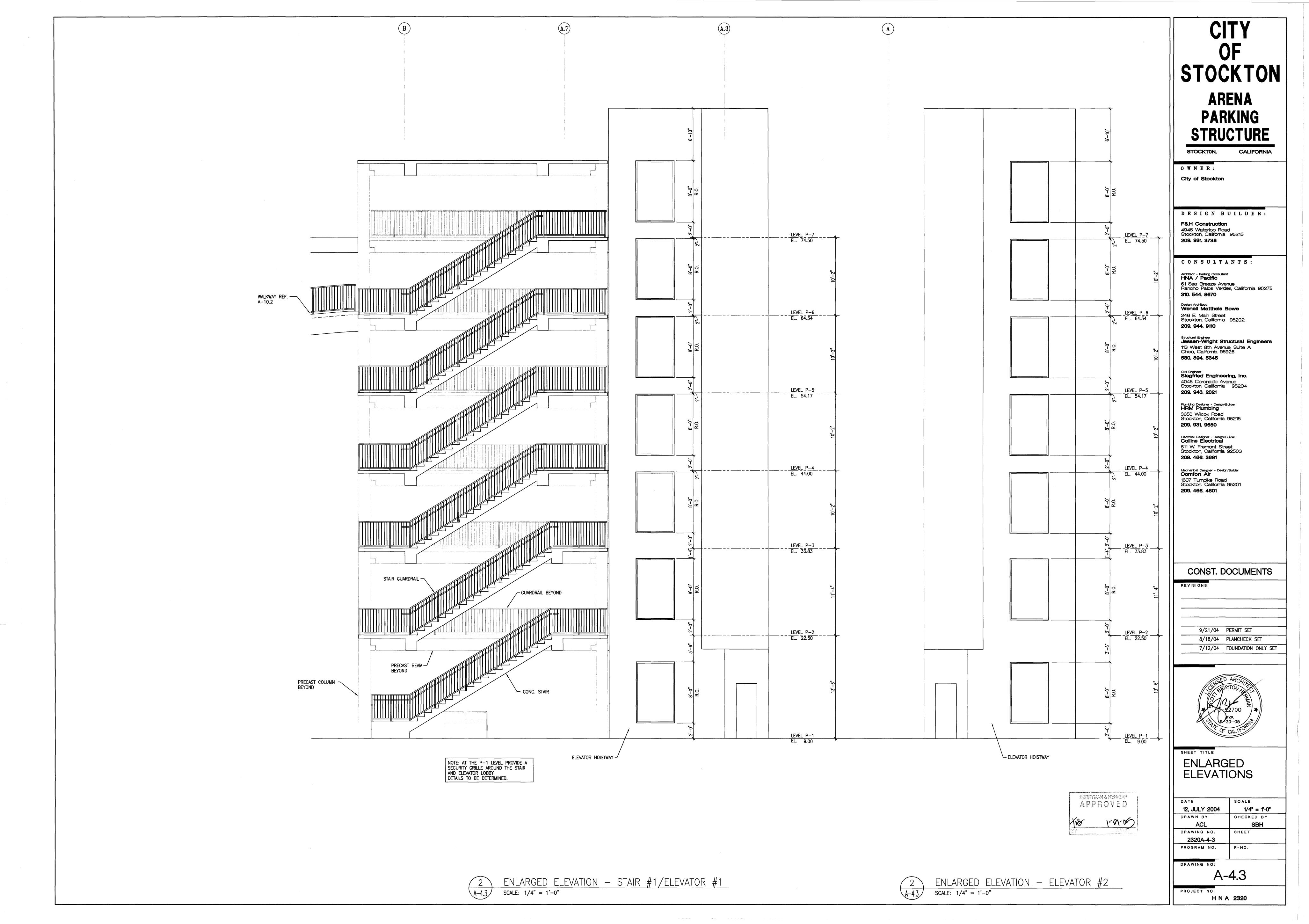
CEMENT PLASTER FINISH - COLOR TO MATCH

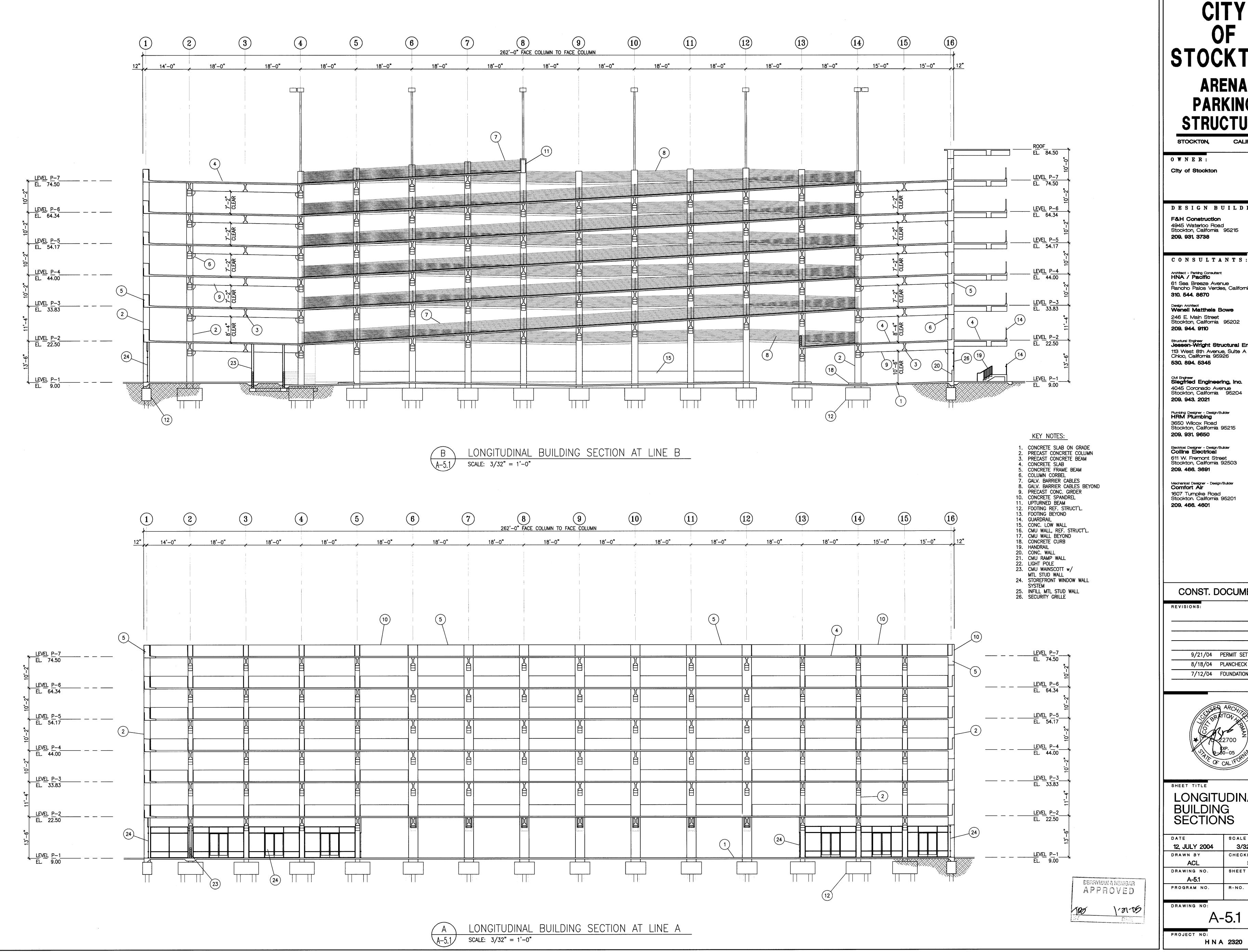
CONC. BEAMS/SLAB EDGE - COLOR TO MATCH

__ LIGHT POST -HOISTWAY BEYOND CONC. FRAME BM. (PAINTED) CONC. RAMP SPANDREL - BARRIER CABLES (PAINTED) BEYOND <u>LEVEL P-5</u> EL. 54.17

TUBE STEEL SECURITY GRILLE (PAINTED) PRECAST CONC. COLUMNS (PAINTED)

- ARENA BUILDING 1 HOUR RATED "INFILL WALLS"





STOCKTON **ARENA PARKING** STRUCTURE

CALIFORNIA

DESIGN BUILDER:

4945 Waterloo Road Stockton, California 95215

61 Sea Breeze Avenue Rancho Palos Verdes, California 90275

246 E. Main Street Stockton, California 95202

Structural Engineer
Jessen-Wright Structural Engineers 113 West 8th Avenue, Suite A Chico, California 95926

CM Engineer
Slegfried Engineering, Inc. 4045 Coronado Avenue Stockton, California 95204

3650 Wilcox Road Stockton, California 95215

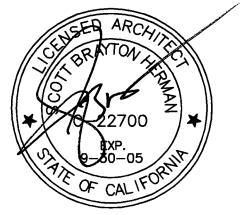
611 W. Fremont Street Stockton, California 92503

1607 Tumpike Road Stockton. California 95201

CONST. DOCUMENTS

9/21/04 PERMIT SET

8/18/04 PLANCHECK SET 7/12/04 FOUNDATION ONLY SET

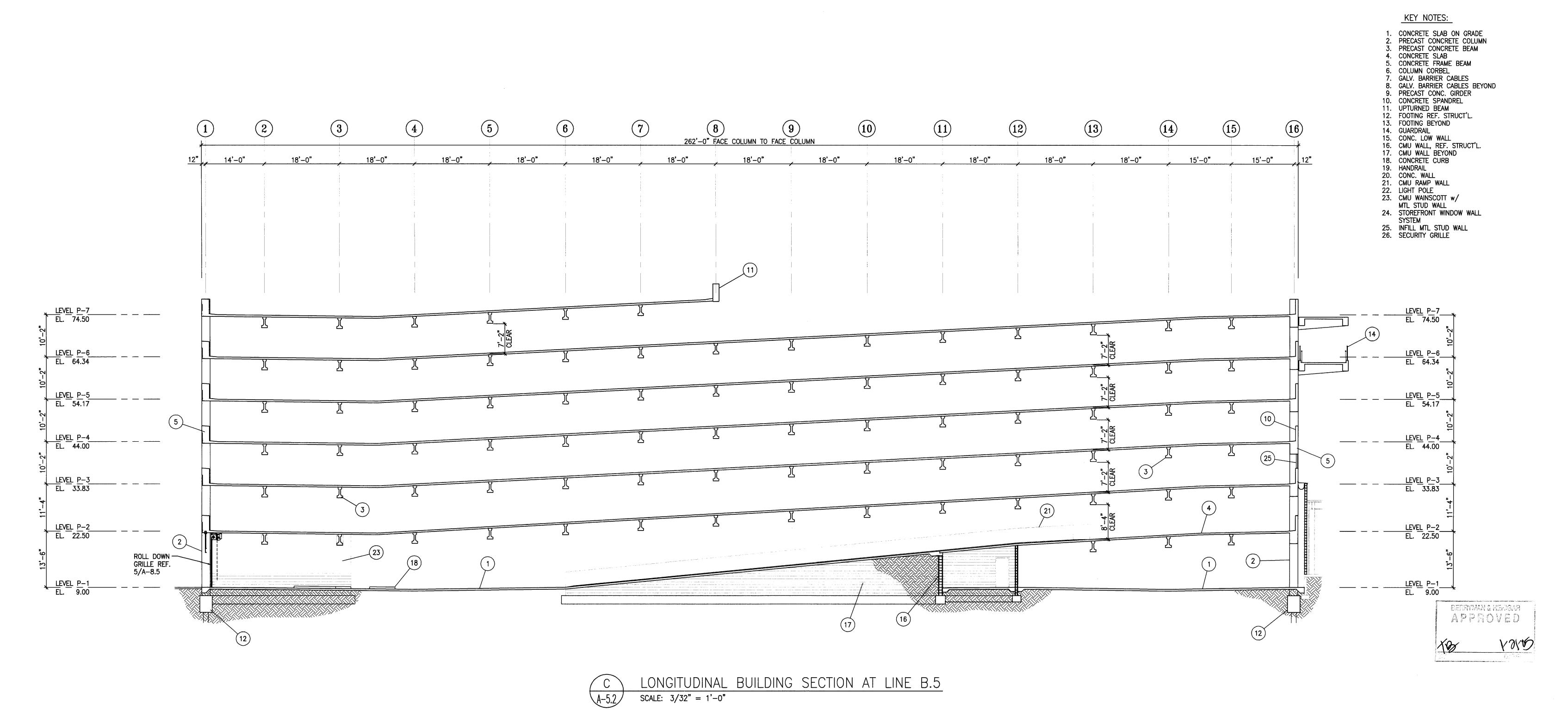


LONGITUDINAL BUILDING SECTIONS

SCALE 3/32" = 1'-0" CHECKED BY

A - 5.1

H N A 2320



STOCKTON ARENA PARKING STRUCTURE

STOCKTON, CALIFORNIA

0 W N E R :
City of Stockton

209. 931. 3738

DESIGN BUILDER:

F&H Construction 4945 Waterloo Road Stockton, California 95215

CONSULTANTS:

Architect - Parking Consultant
HNA / Pacific
61 Sea Breeze Avenue
Rancho Palos Verdes, California 90275
310. 544. 8670

Design Architect

Weneli Mattheis Bowe

246 E. Main Street

Stockton, California 95202

209. 944. 9110

Structural Engineer

Jessen-Wright Structural Engineers

113 West 8th Avenue, Suite A
Chico, California 95926

530. 894. 5345

CM Engineer
Slegfried Engineering, Inc.
4045 Coronado Avenue
Stockton, California 95204
209. 943. 2021

Plumbing Designer - Design/Builder HRM Plumbing
3650 Wilcox Road
Stockton, California 95215
209. 931. 9650

Electrical Designer - Design/Builder

Collins Electrical

611 W. Fremont Street
Stockton, California 92503

209. 466. 3691

Mechanical Designer - Design/Bullder
Comfort Air
1607 Turnpike Road
Stockton. California 95201
209. 466. 4601

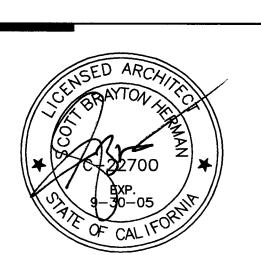
CONST. DOCUMENTS

REVISIONS:

9/21/04 PERMIT SET

8/18/04 PLANCHECK SET

7/12/04 FOUNDATION ONLY SET



LONGITUDINAL BUILDING SECTIONS

DATE

12, JULY 2004

3/32" = 1'-0"

DRAWN BY

ACL

DRAWING NO.

A-5.2

PROGRAM NO.

SCALE

SCALE

SCALE

SHECKED BY

SHEET

A-5.2

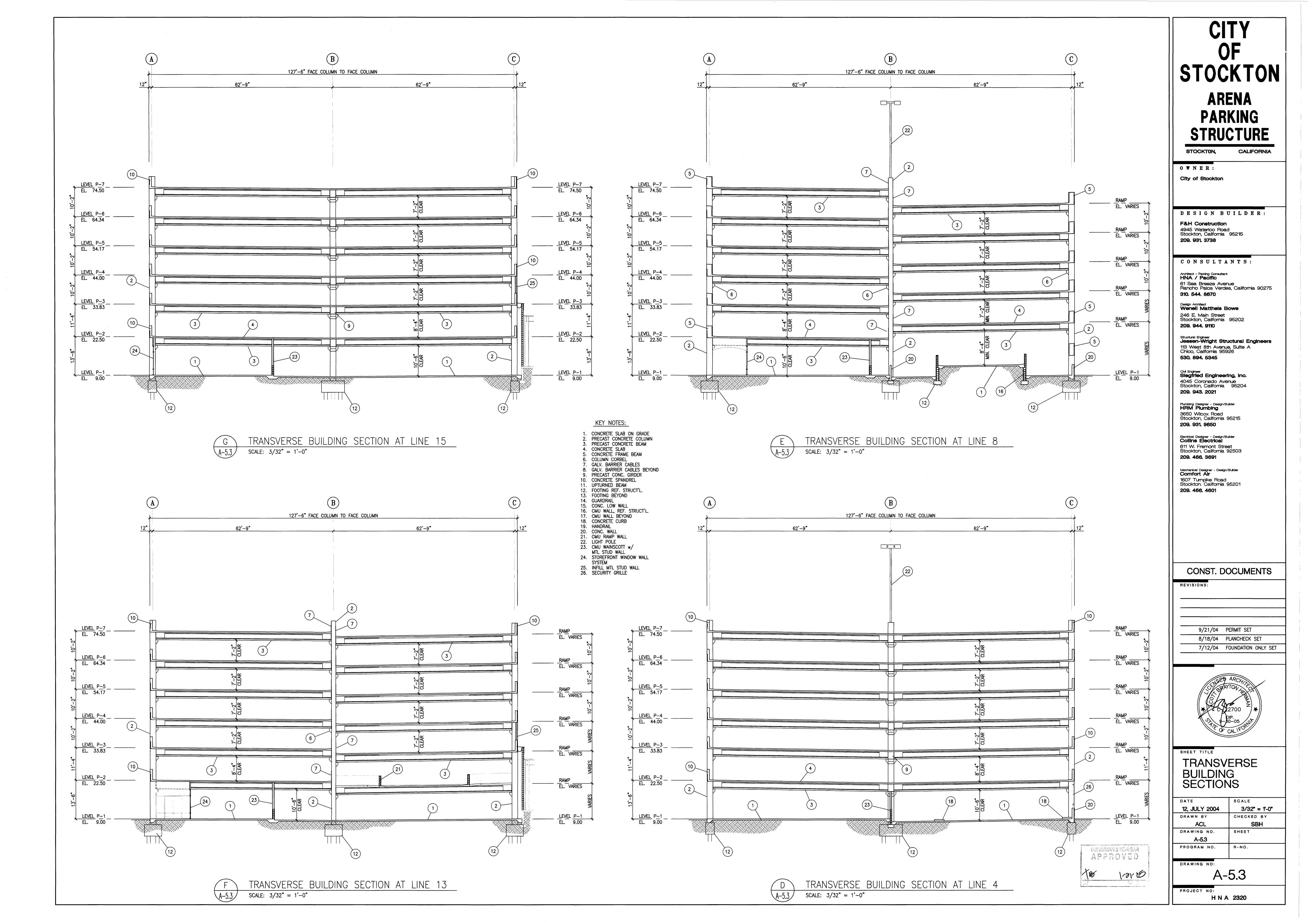
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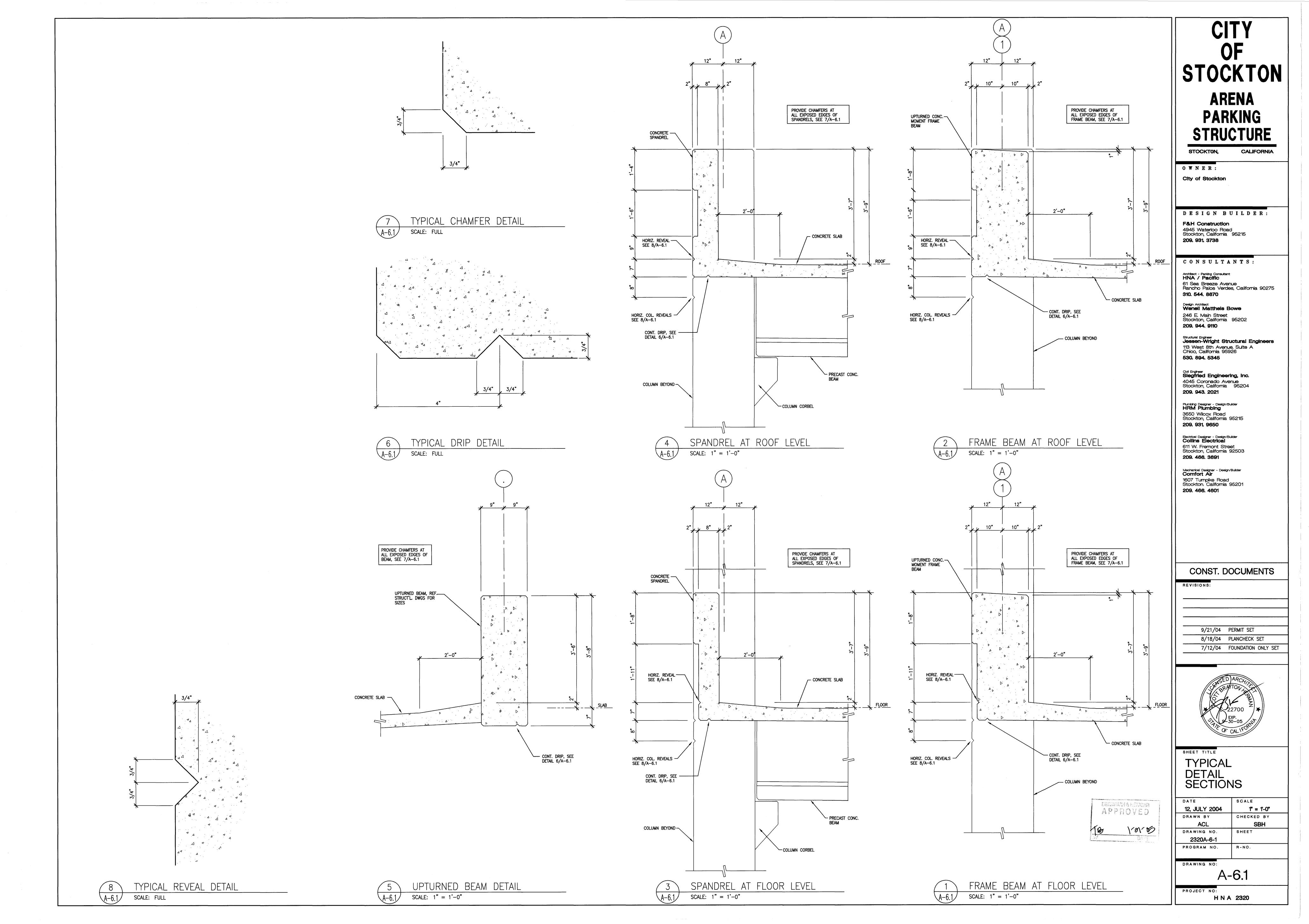
R-NO.

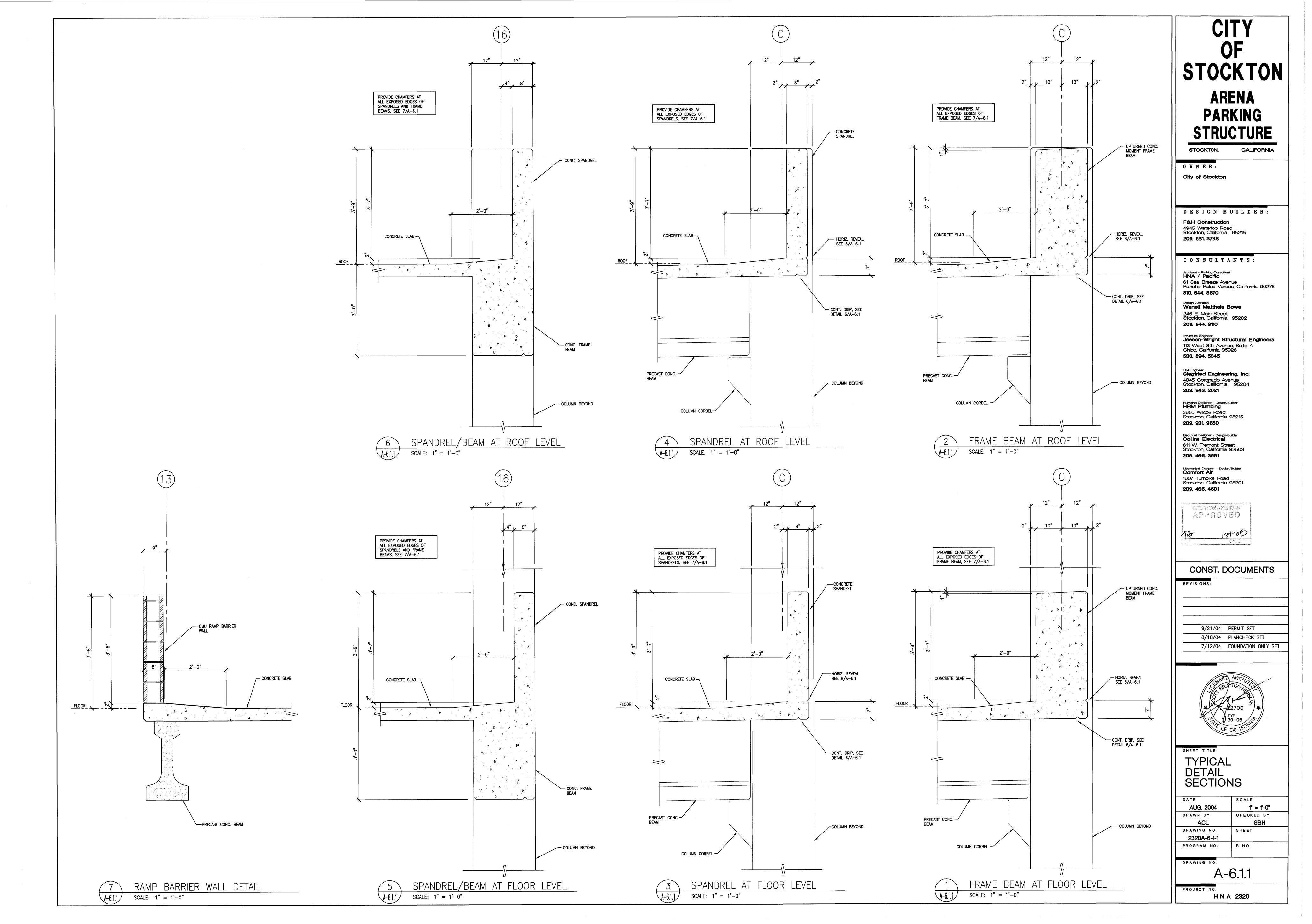
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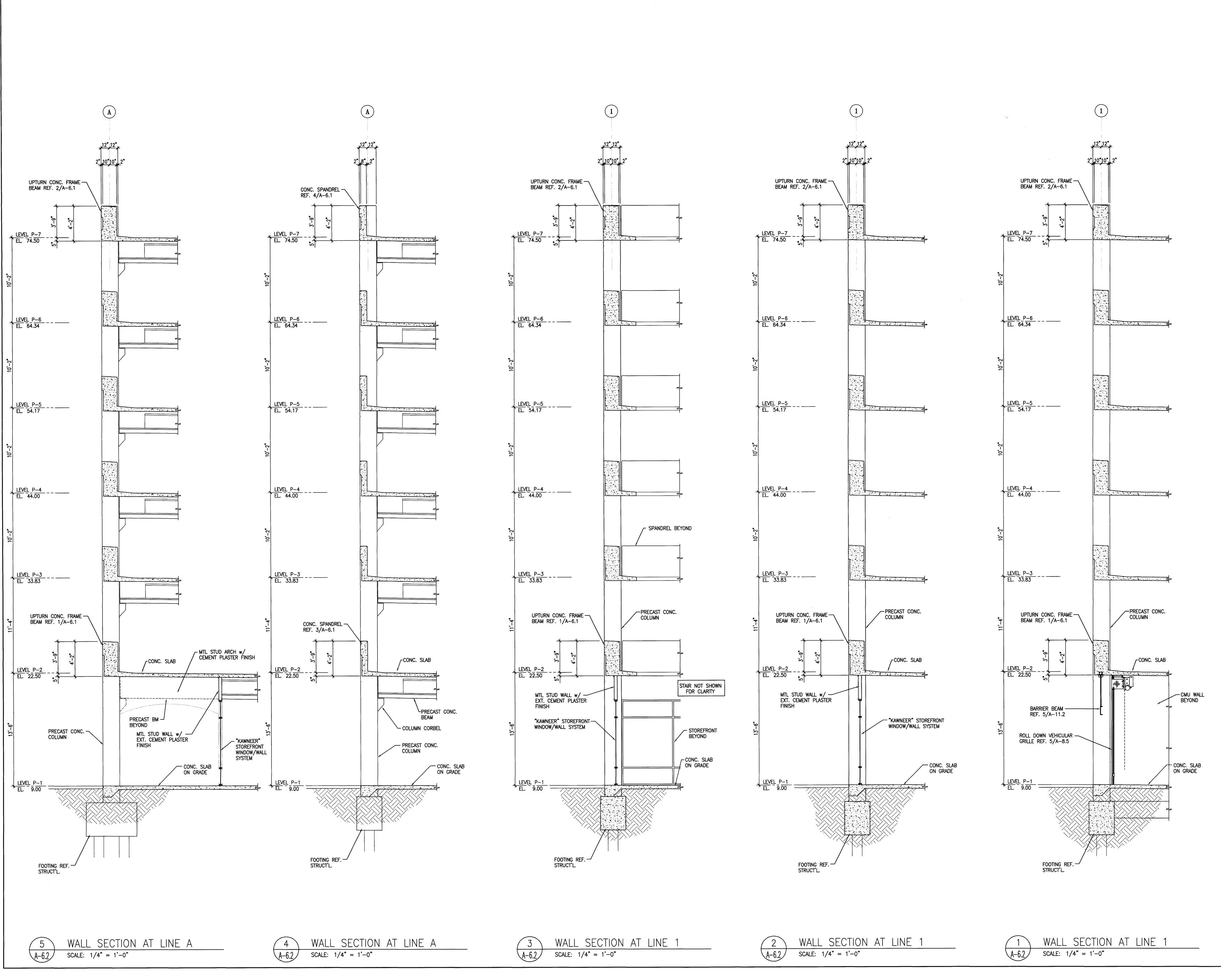
DRAWING NO:
A-5.2

PROJECT NO: H N A 2320









STOCKTON, CALIFORNIA

0 W N E R :
City of Stockton

209. 931. 3738

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Chico, California 95926
530. 894. 5345

CM Engineer
Slegfried Engineering, Inc.
4045 Coronado Avenue
Stockton, California 95204

Plumbing Designer - Design/Builder **HRM Plumbing** 3650 Wilcox Road Stockton, California 95215

209. 943. 2021

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Collins Electrical

611 W. Fremont Street
Stockton, California 92503

209. 466. 3691

Mechanical Designer - Design/Builder **Comfort Air** 1607 Turnpike Road Stockton, California 95201

BERRYMAN & HENIGAR APPROVED

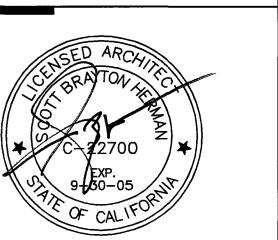
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CONST. DOCUMENTS

9/21/04 PERMIT SET

8/18/04 PLANCHECK SET

7/12/04 FOUNDATION ONLY SET



WALL SECTIONS

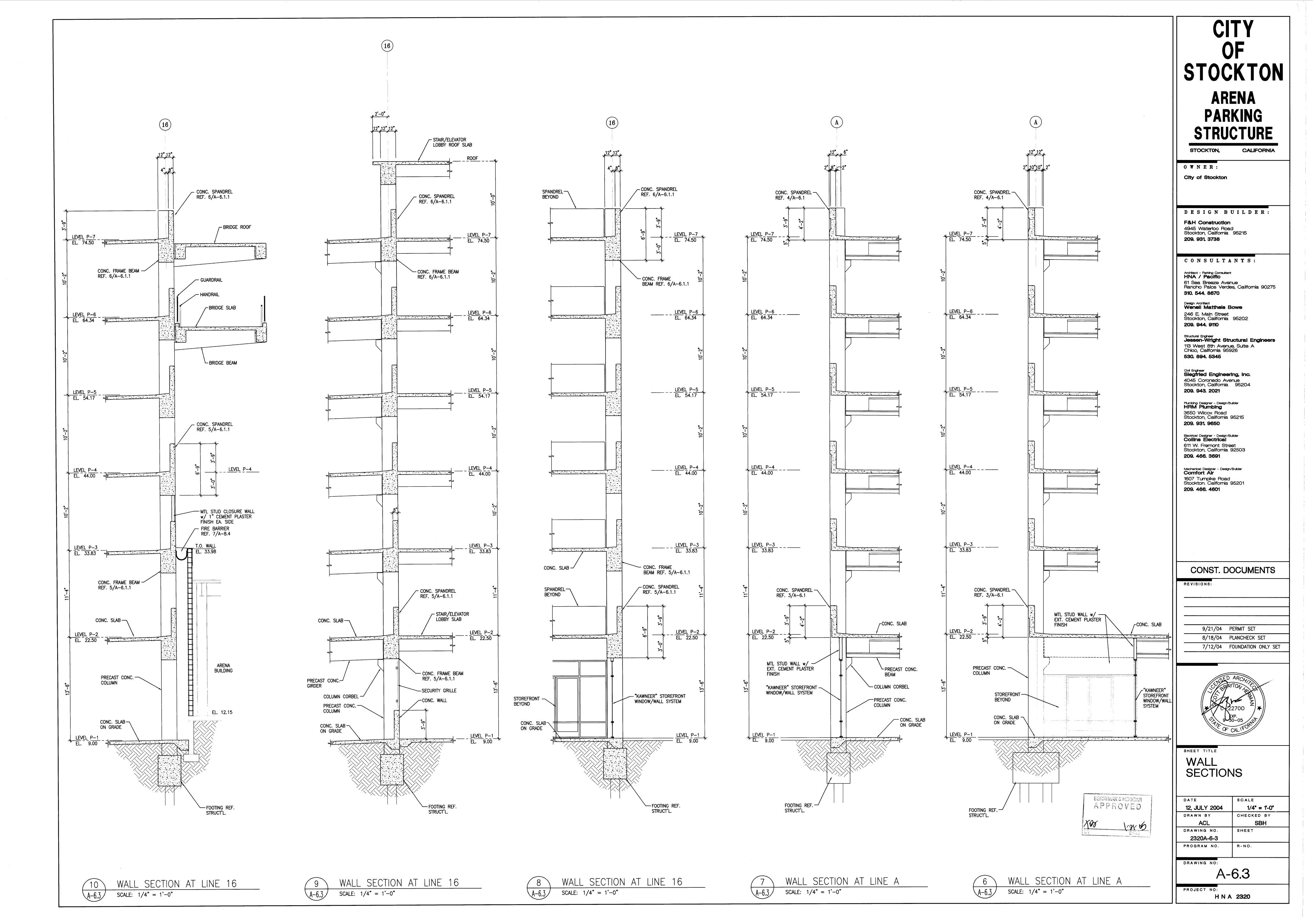
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12, JULY 2004	1/4" = 1'-0"			
DRAWN BY	CHECKED BY			
ACL	SBH			
DRAWING NO.	SHEET			
2320A-6-2				
PROGRAM NO.	R-NO.			

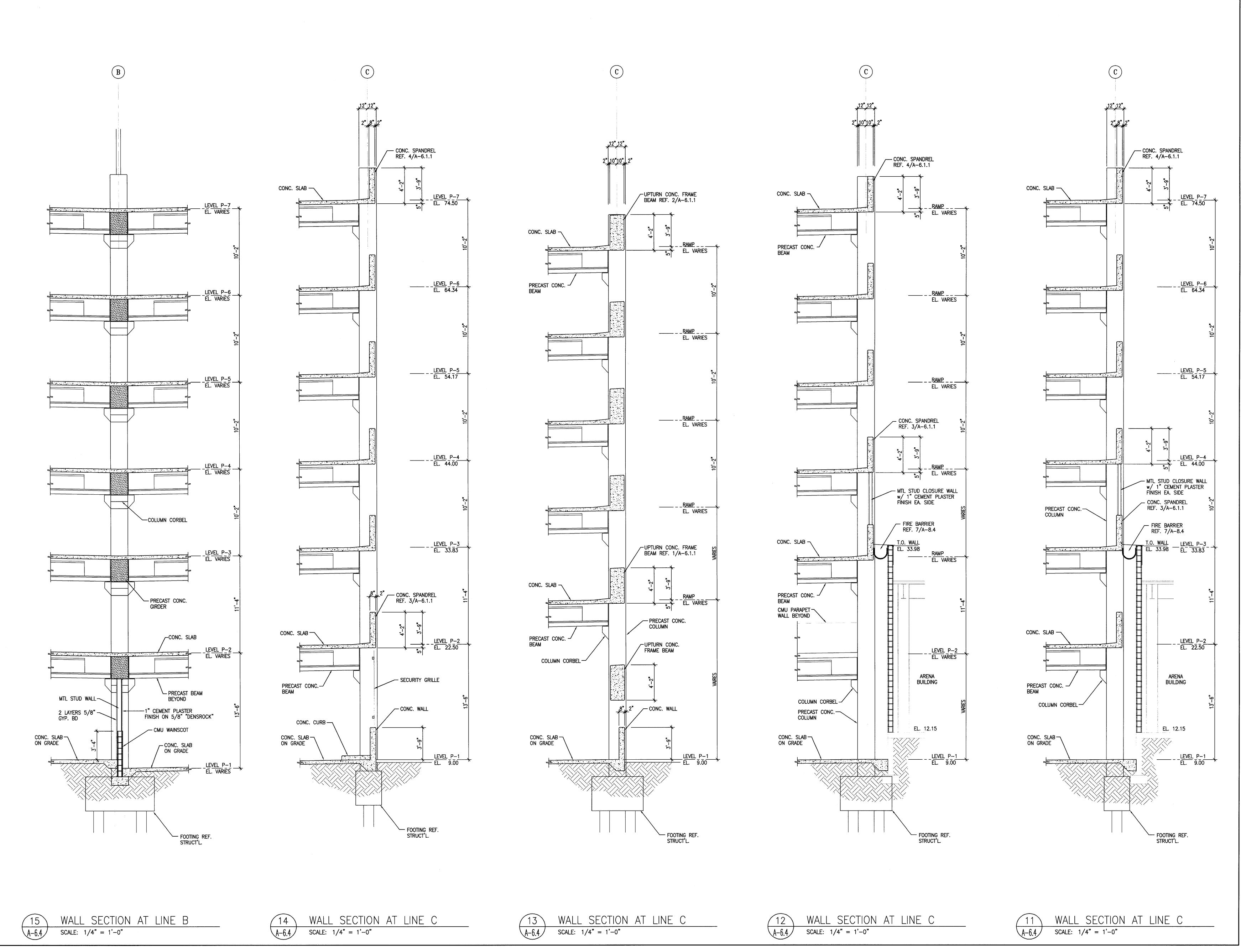
DRAWING NO:

A-6.2

PROJECT NO:

H N A 2320





STOCKTON, CALIFORNIA

0 W N E R :
City of Stockton

City of Stockton

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209. 943. 2021

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209. 466. 3691

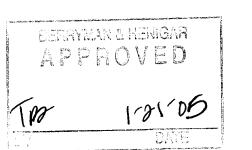
Mechanical Designer - Design/Builder

Comfort Air

1607 Turnpike Road

Stockton. California 95201

209. 466. 4601

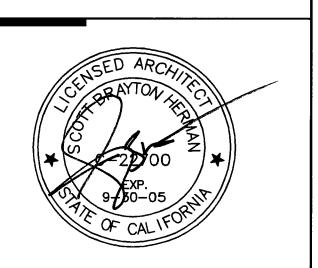


CONST. DOCUMENTS

REVISIONS:

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7/12/04 FOUNDATION ONLY SET

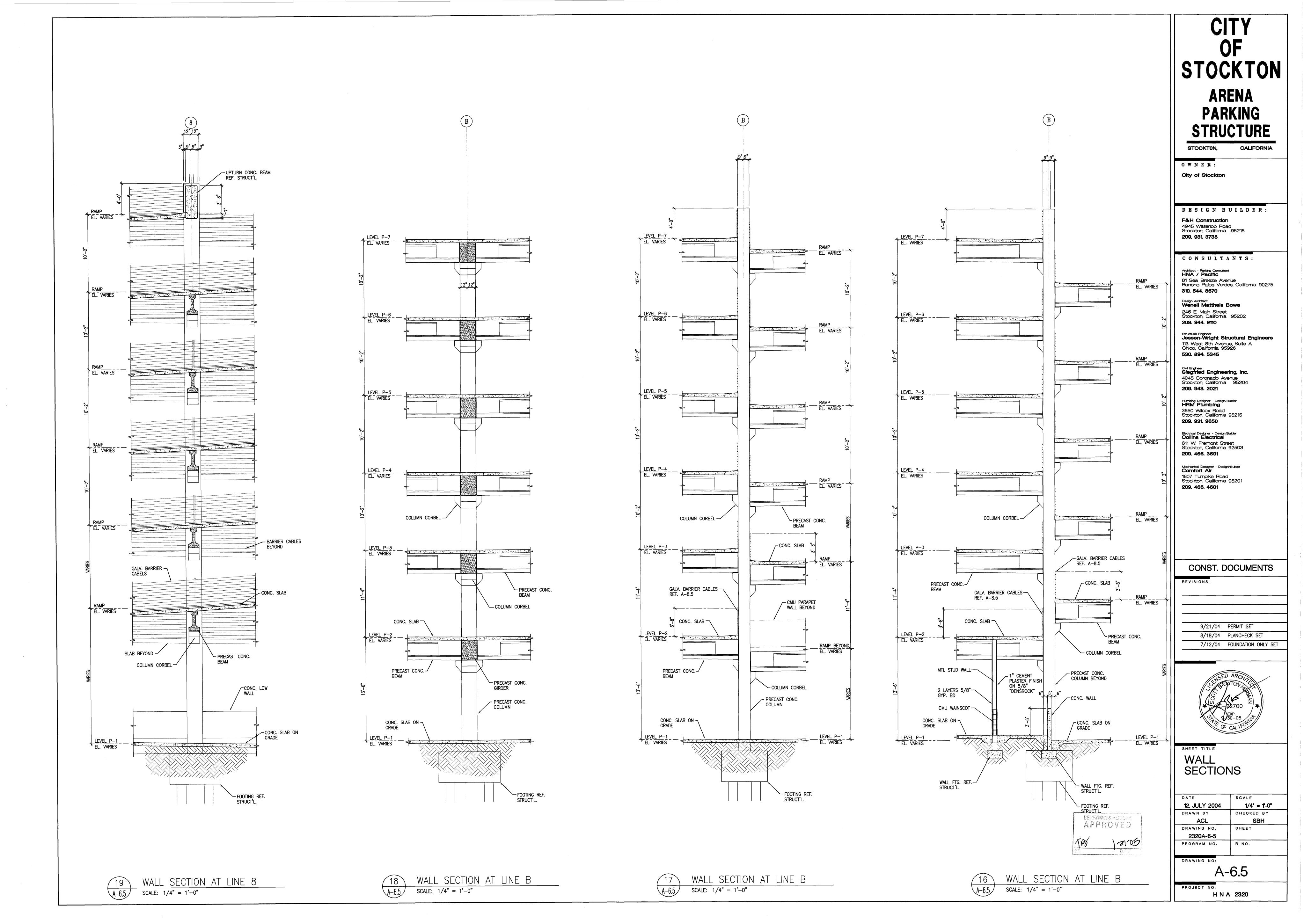


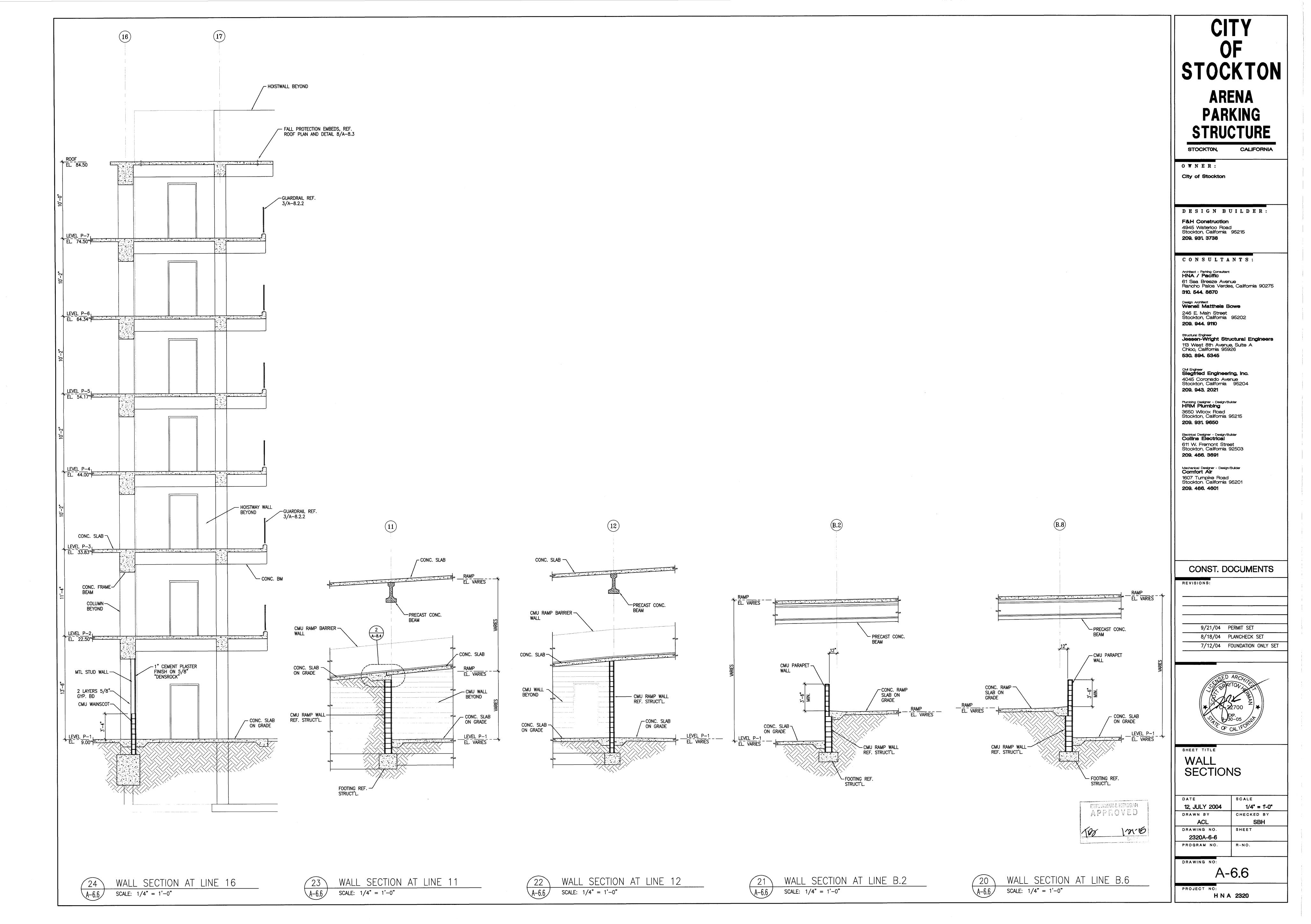
WALL SECTIONS

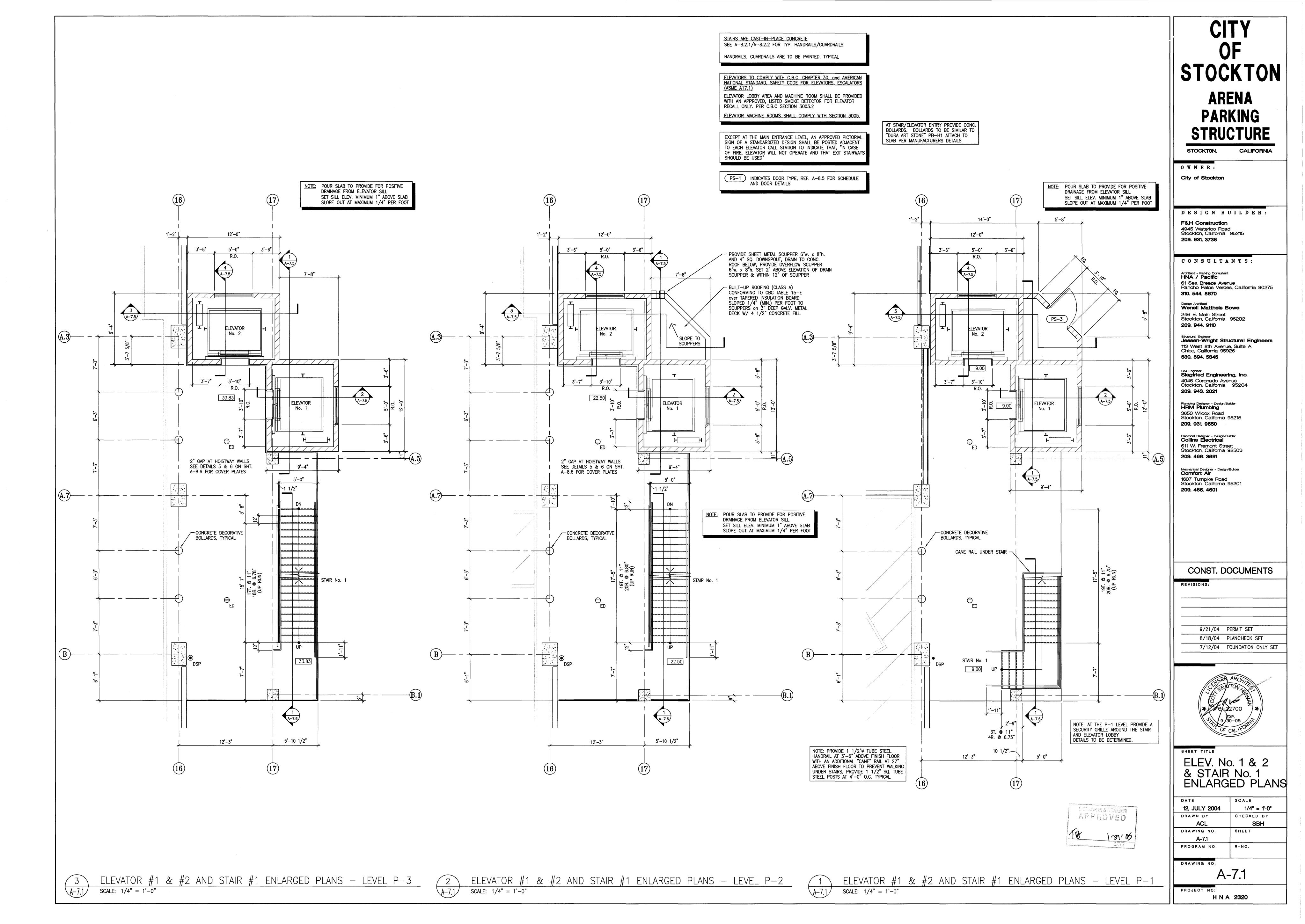
DATE	SCALE
12, JULY 2004	1/4" = 1'-0"
DRAWN BY	CHECKED BY
ACL	SBH
DRAWING NO.	SHEET
2320A-6-4	
PROGRAM NO.	R-NO.

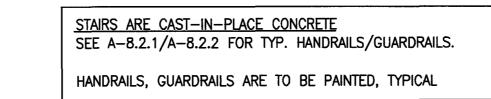
DRAWING NO:

A-6.4









ELEVATORS TO COMPLY WITH C.B.C. CHAPTER 30, and AMERICAN NATIONAL STANDARD, SAFETY CODE FOR ELEVATORS, ESCALATORS (ASME A17.1)

ELEVATOR LOBBY AREA AND MACHINE ROOM SHALL BE PROVIDED WITH AN APPROVED, LISTED SMOKE DETECTOR FOR ELEVATOR RECALL ONLY. PER C.B.C SECTION 3003.2 ELEVATOR MACHINE ROOMS SHALL COMPLY WITH SECTION 3005.

EXCEPT AT THE MAIN ENTRANCE LEVEL, AN APPROVED PICTORIAL SIGN OF A STANDARDIZED DESIGN SHALL BE POSTED ADJACENT TO EACH ELEVATOR CALL STATION TO INDICATE THAT, "IN CASE OF FIRE, ELEVATOR WILL NOT OPERATE AND THAT EXIT STAIRWAYS SHOULD BE USED"

AT STAIR/ELEVATOR ENTRY PROVIDE CONC. BOLLARDS. BOLLARDS TO BE SIMILAR TO "DURA ART STONE" PB-H1 ATTACH TO SLAB PER MANUFACTURERS DETAILS

STOCKTON **ARENA PARKING** STRUCTURE STOCKTON, **CALIFORNIA**

OWNER: City of Stockton

209. 931. 3738

DESIGN BUILDER: F&H Construction 4945 Waterloo Road Stockton, California 95215

CONSULTANTS:

Architect - Parking Consultant HNA / Pacific 61 Sea Breeze Avenue Rancho Palos Verdes, California 90275 310. 544. 8670

Design Architect
Wenell Matthels Bowe 246 E. Main Street Stockton, California 95202 209. 944. 9110

Structural Engineer
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Siegfried Engineering, Inc. 4045 Coronado Avenue 209. 943. 2021

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Electrical Designer - Design/Builder
Collins Electrical 611 W. Fremont Street Stockton, California 92503 209. 466. 3691

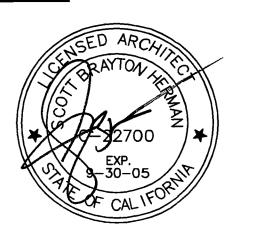
Mechanical Designer - Design/Builder Comfort Air 1607 Turnpike Road Stockton. California 95201 209. 466. 4601

CONST. DOCUMENTS

REVISIONS:

9/21/04 PERMIT SET 8/18/04 PLANCHECK SET

7/12/04 FOUNDATION ONLY SET

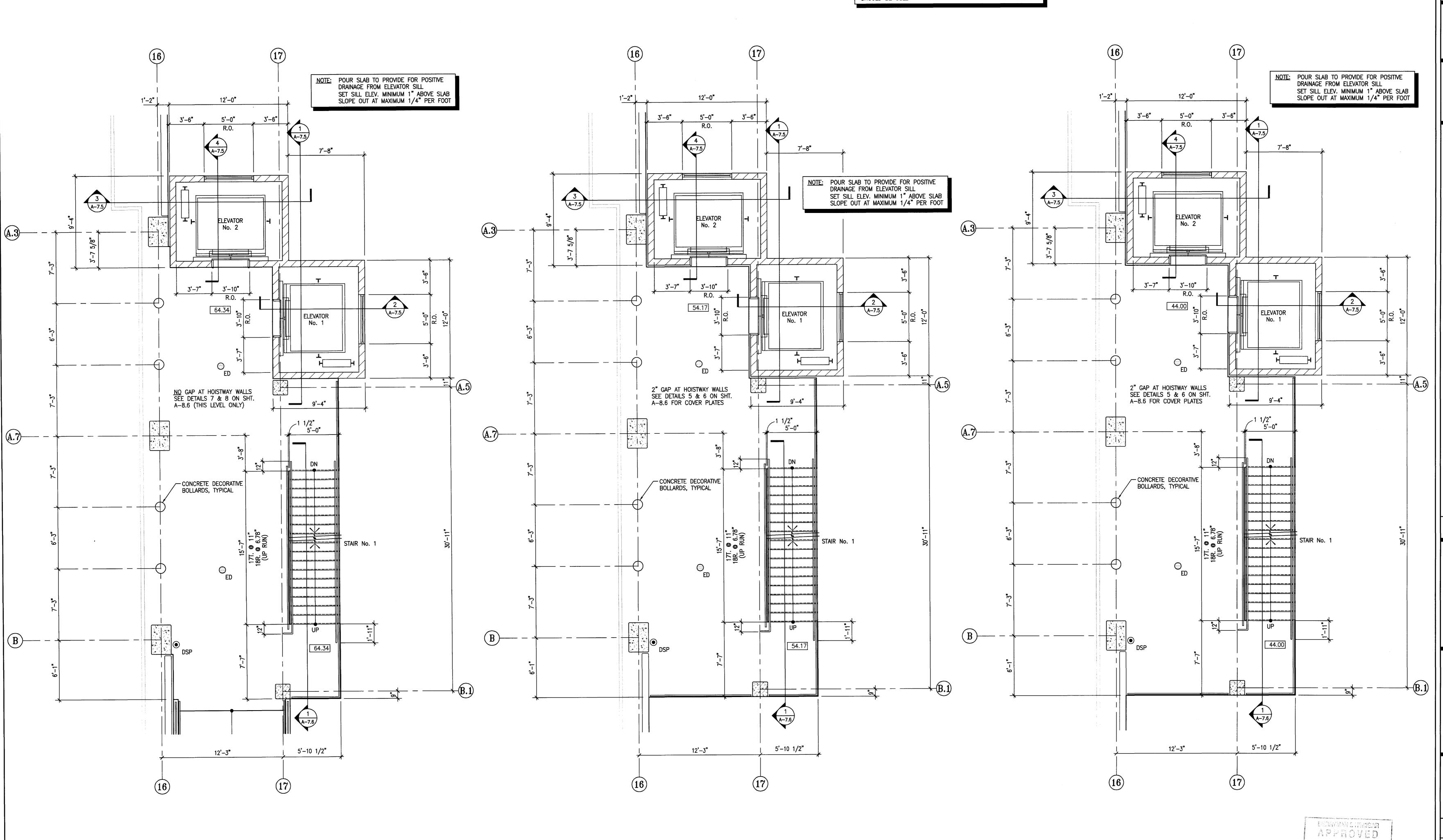


SHEET TITLE ELEV. No. 1 & 2 & STAIR No. 1 ENLARGED PLANS

SCALE 12, JULY 2004 1/4" = 1'-0" CHECKED BY DRAWN BY ACL DRAWING NO. SHEET A-7.2 PROGRAM NO.

DRAWING NO:

A-7.2

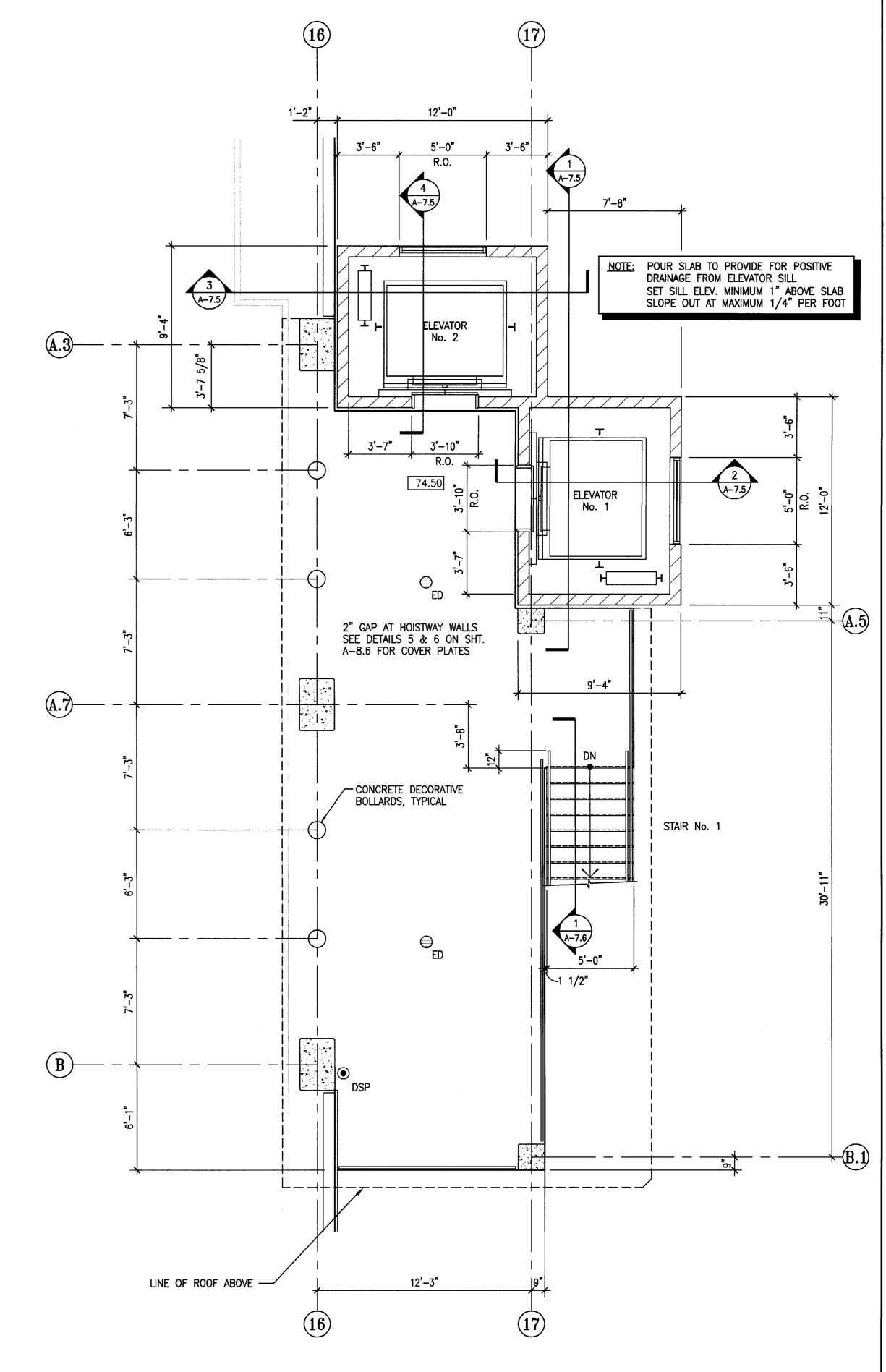


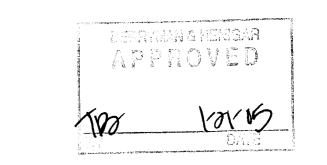
STAIRS ARE CAST-IN-PLACE CONCRETE SEE A-8.2.1/A-8.2.2 FOR TYP. HANDRAILS/GUARDRAILS. HANDRAILS, GUARDRAILS ARE TO BE PAINTED, TYPICAL

ELEVATORS TO COMPLY WITH C.B.C. CHAPTER 30, and AMERICAN NATIONAL STANDARD, SAFETY CODE FOR ELEVATORS, ESCALATORS (ASME A17.1) ELEVATOR LOBBY AREA AND MACHINE ROOM SHALL BE PROVIDED WITH AN APPROVED, LISTED SMOKE DETECTOR FOR ELEVATOR RECALL ONLY. PER C.B.C SECTION 3003.2 ELEVATOR MACHINE ROOMS SHALL COMPLY WITH SECTION 3005.

EXCEPT AT THE MAIN ENTRANCE LEVEL, AN APPROVED PICTORIAL SIGN OF A STANDARDIZED DESIGN SHALL BE POSTED ADJACENT TO EACH ELEVATOR CALL STATION TO INDICATE THAT, "IN CASE OF FIRE, ELEVATOR WILL NOT OPERATE AND THAT EXIT STAIRWAYS SHOULD BE USED"

AT STAIR/ELEVATOR ENTRY PROVIDE CONC. BOLLARDS. BOLLARDS TO BE SIMILAR TO "DURA ART STONE" PB-H1 ATTACH TO SLAB PER MANUFACTURERS DETAILS





HOISTWAY VENT, SEE 12/A-8.6 CENTER VENT ON ELEVATOR
BOTTOM OF VENT 8'-0"± ABOVE

PROVIDE SHEET METAL SCUPPER 6"w. x 8"h. AND 4" SQ. DOWNSPOUT, DRAIN TO CONC.

6"w. x 8"h. SET 2" ABOVE ELEVATION OF DRAIN SCUPPER & WITHIN 12" OF SCUPPER

ROOF BELOW, PROVIDE OVERFLOW SCUPPER

NOTE: PROVIDE FALL PROTECTION EMBEDS TO THE CONCRETE ROOF SLABS PER THE DETAIL 8 ON SHEET A-8.3. PROVIDE

RESTRAINTS AT EACH CORNER OF THE SLABS AND AT THE LARGE ROOF PROVIDE

INTERMEDIATE RESTRAINTS BTWN. CORNERS

C.I.P. CONC. ROOF w/ — ELASTOMERIC COATING.

SLOPE ROOF 1/4" PER FOOT MIN. TO DRAIN

FINISH FLOOR SLAB

ELEVATOR #1 & #2 AND STAIR #1 ENLARGED ROOF PLAN

A-7.3 SCALE: 1/4" = 1'-0"

12'-3"

 $\frac{1}{A-7.5}$

7'-8"

SLOPE TO SCUPPERS

9'-4"

6'-10 1/2"

— BUILT-UP ROOFING (CLASS A)
CONFORMING TO CBC TABLE 15-E
over TAPERED INSULATION BOARD
SLOPED 1/4" (MIN.) PER FOOT TO
SCUPPERS on 3" DEEP GALV. METAL
DECK W/ 4 1/2" CONCRETE FILL

— HOISTWAY VENT, SEE 12/A-8.6 CENTER VENT ON ELEVATOR BOTTOM OF VENT 8'-0"± ABOVE

FINISH FLOOR SLAB

12'-0"

2" GAP AT HOISTWAY WALLS

ROOF DRAIN

OVERFLOW DRAIN

OVERFLOW DRAIN

ROOF DRAIN

SEE DETAIL 6/A-8.6 FOR COVER PLATE (SIMILAR)

✓ SCUPPERS

1 ELEVATOR #1 & #2 AND STAIR #1 ENLARGED PLANS - LEVEL P-7

A-7.3 SCALE: 1/4" = 1'-0"

STOCKTON **ARENA PARKING** STRUCTURE

> STOCKTON, **CALIFORNIA**

OWNER:

209. 931. 3738

City of Stockton

DESIGN BUILDER: F&H Construction 4945 Waterloo Road Stockton, California 95215

CONSULTANTS:

Architect - Parking Consultant HNA / Pacific 61 Sea Breeze Avenue Rancho Palos Verdes, California 90275 310. 544. 8670

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Plumbing Designer - Design/Builder HRM Plumbing 3650 Wilcox Road Stockton, California 95215 209. 931. 9650

Electrical Designer - Design/Builder Collins Electrical 611 W. Fremont Street Stockton, California 92503 209. 466. 3691

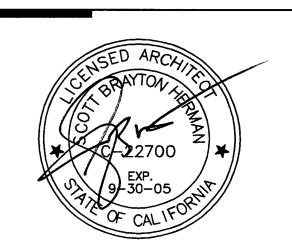
1607 Turnpike Road Stockton, California 95201 209. 466. 4601

CONST. DOCUMENTS

REVISIONS:

9/21/04 PERMIT SET 8/18/04 PLANCHECK SET

7/12/04 FOUNDATION ONLY SET

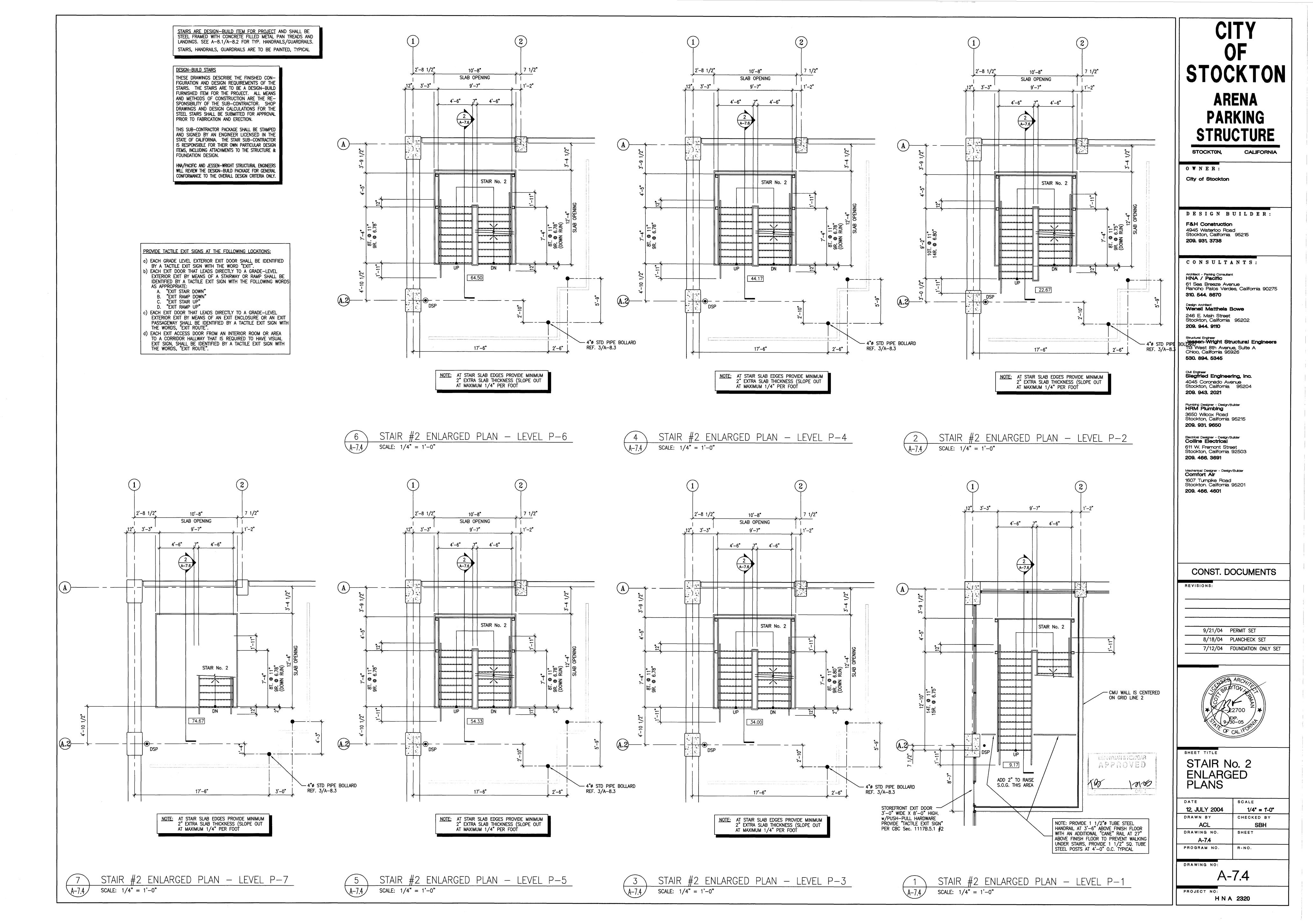


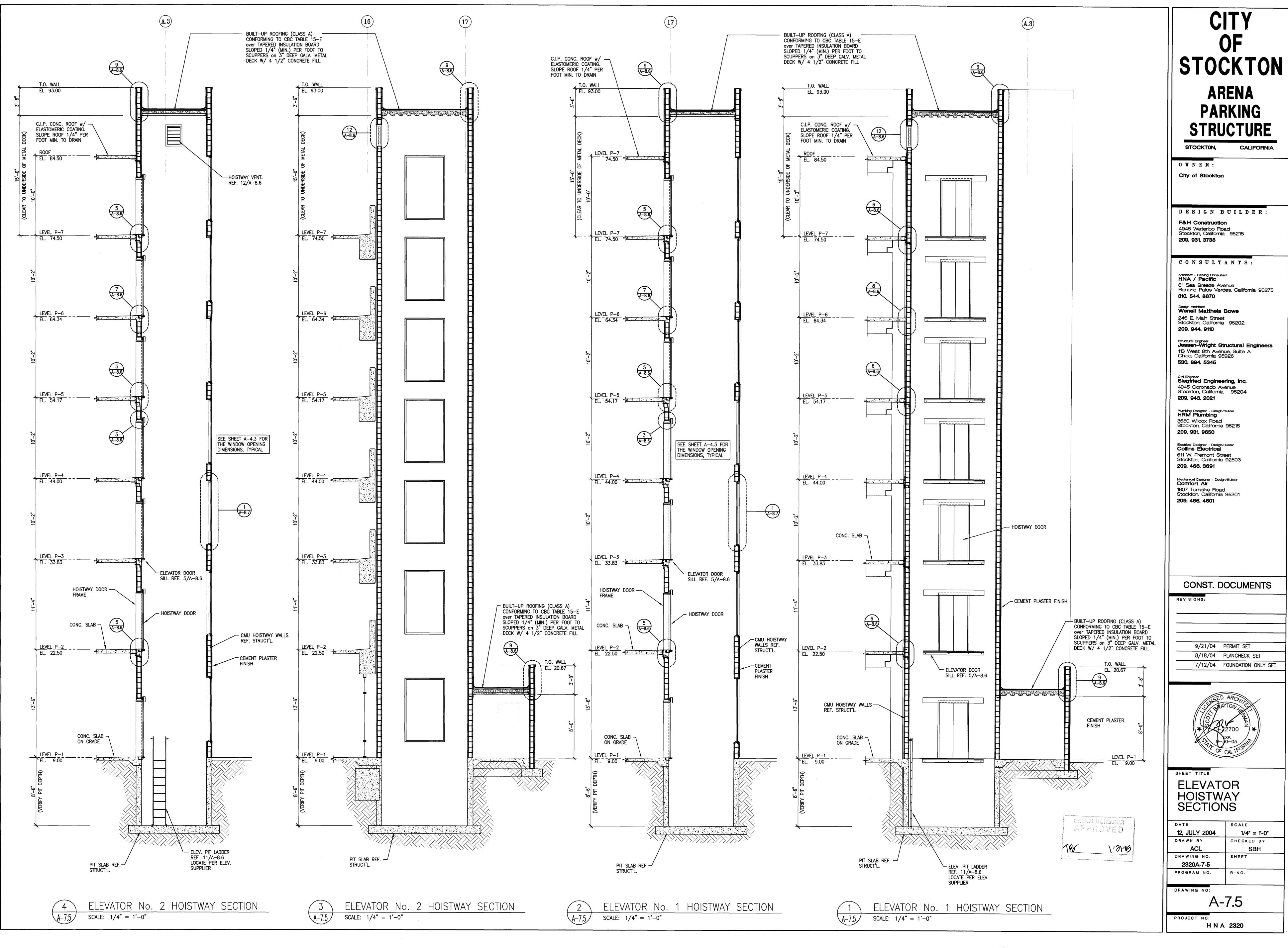
ELEV. No. 1 & 2 & STAIR No. 1 ENLARGED PLANS

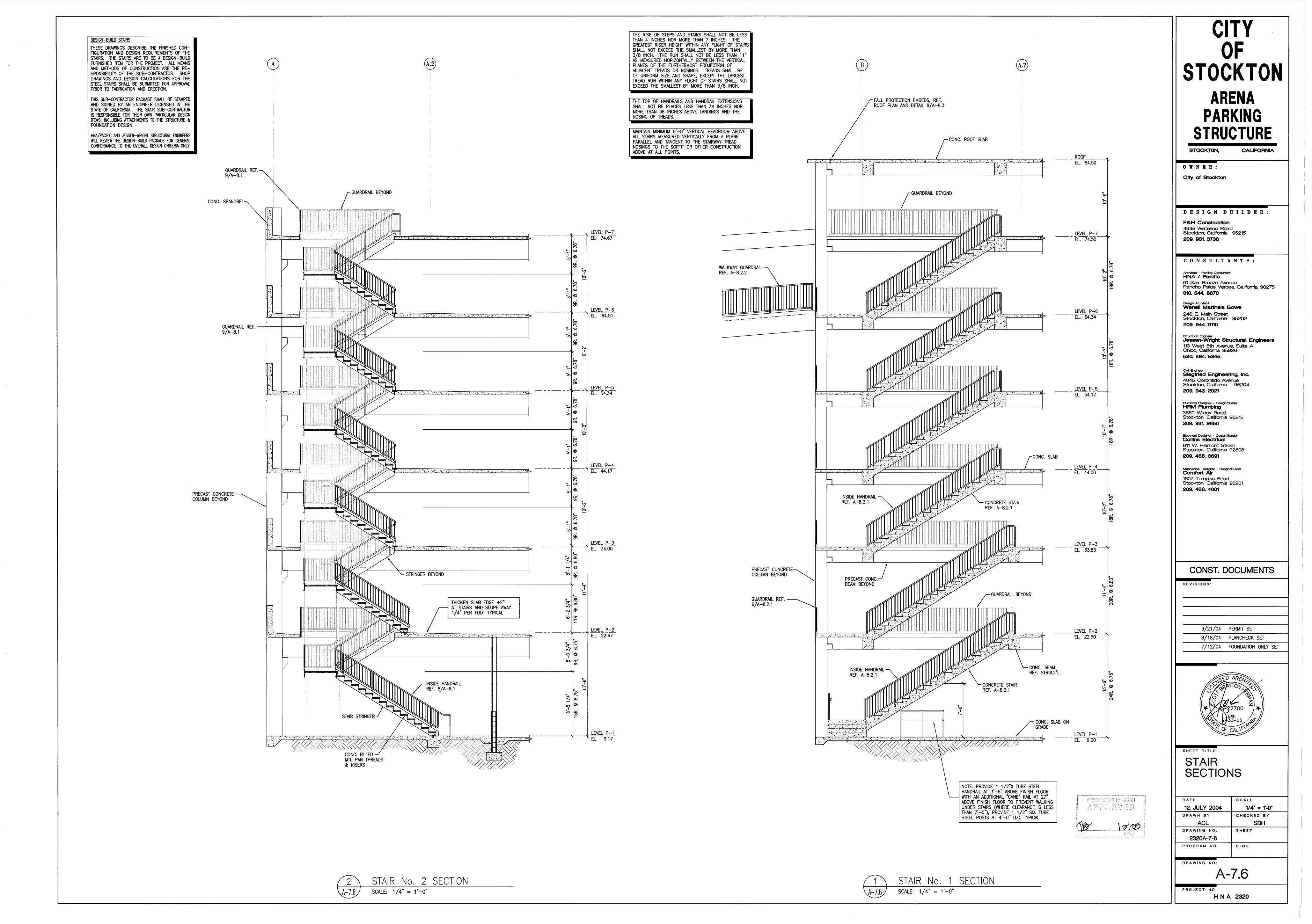
SCALE 1/4" = 1"-0"12, JULY 2004 CHECKED BY DRAWN BY ACL DRAWING NO. PROGRAM NO.

DRAWING NO:

A-7.3



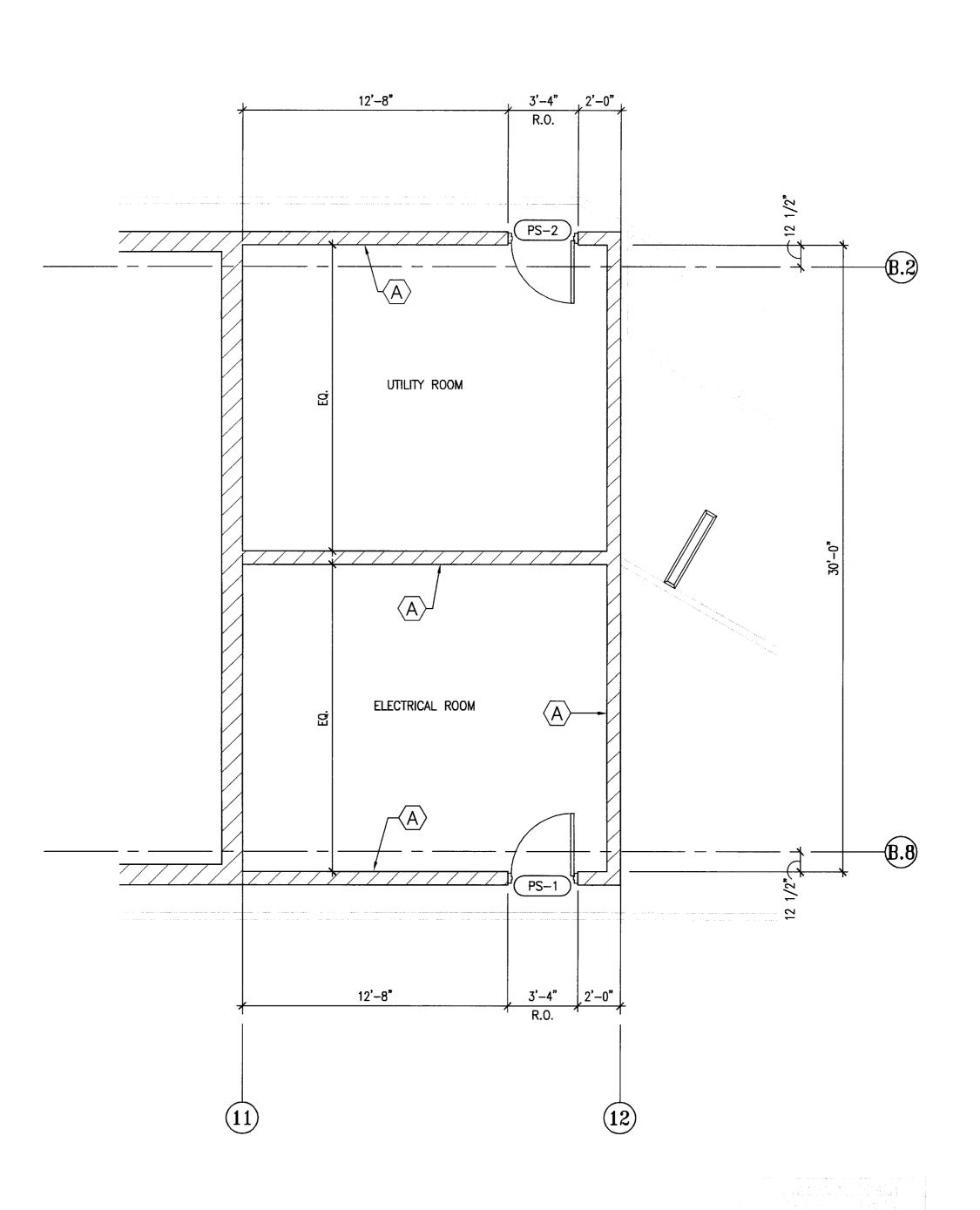


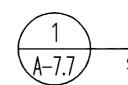


WALL TYPE LEGEND

- 8" CONCRETE MASONRY WALL /SOLID GROUTED
- 40" HIGH 8" CONCRETE MASONRY BASE WALL/SOLID GROUTED
 20 ga. 6" 'C' (16" O.C.) METAL STUD WALL 3. 2 LAYERS TYPE 'X' FIRE-RATED GYPSUM BOARD ON COMMERICAL
- SPACE SIDE (INTERIOR)

 4. 1" THICK LATH AND CEMENT PLASTER ON ONE LAYER 5/8" DENSROCK ON PARKING AREA SIDE (EXTERIOR)
- 1. 40" HIGH 8" CONCRETE MASONRY BASE WALL/SOLID GROUTED 2. 20 ga. - 6" 'C' (16" O.C.) METAL STUD WALL
 - 3. 2 LAYERS TYPE 'X' FIRE-RATED GYPSUM BOARD ON BOTH SIDES OF WALL
- 1. 20 ga. 6" 'C' (16" O.C.) METAL STUD WALL 2. 1 LAYER TYPE 'X' FIRE-RATED GYPSUM BOARD ON COMMERICAL
- SPACE SIDE (INTERIOR)
 3. 1" THICK LATH AND CEMENT PLASTER ON EXTERIOR SIDE OF WALL





~ 2'−0"R. TYP.

TOLIET ROOM

__ 4"R. TYP.

23'-11"

9'-0"

_ 6" CONC. ISLAND

ENLARGED ENTRY PLAN - LEVEL P-1

8'-7 1/4"

6" CONC. ISLAND -

__12"R.—_

EMERGENCY EXIT — GATE [NOT SHOWN]

6'-0"

6" CONC. ISLAND —

/ 6" CONC. ISLAND

SCALE: 1/4" = 1'-0"

6" CONC. ISLAND -

ENLARGED UTILITY AND ELECTRICAL ROOM PLAN - LEVEL P-1 A-7.7 SCALE: 1/4" = 1'-0"

ARENA PARKING STRUCTURE

> STOCKTON, CALIFORNIA

OWNER: City of Stockton

209. 931. 3738

DESIGN BUILDER: F&H Construction 4945 Waterloo Road Stockton, California 95215

CONSULTANTS:

Architect - Parking Consultant
HNA / Pacific 61 Sea Breeze Avenue Rancho Palos Verdes, California 90275 310. 544. 8670

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Plumbing Designer - Design/Builder **HRM Plumbing** 3650 Wilcox Road Stockton, California 95215 209. 931. 9650

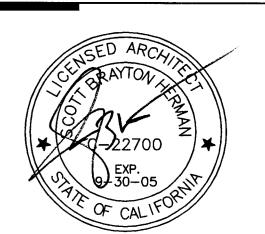
Electrical Designer - Design/Builder
Collins Electrical 611 W. Fremont Street Stockton, California 92503 209. 466. 3691

Mechanical Designer - Design/Bullder Comfort Air 1607 Turnpike Road Stockton. California 95201 209. 466. 4601

CONST. DOCUMENTS

REVISIONS:

9/21/04 PERMIT SET 8/18/04 PLANCHECK SET 7/12/04 FOUNDATION ONLY SET



SHEET TITLE ENLARGED PLANS

DATE	SCALE
18, AUGUST 2004	1/4" = 1'-0"
DRAWN BY	CHECKED BY
ACL	SBH
DRAWING NO.	SHEET
2320A-7-7	
PROGRAM NO.	R-NO.

DRAWING NO:

A-7.7

WALL TYPE LEGEND

A 8" CONCRETE MASONRY WALL /SOLID GROUTED

1. 40" HIGH - 8" CONCRETE MASONRY BASE WALL/SOLID GROUTED 2. 20 ga. - 6" 'C' (16" O.C.) METAL STUD WALL 3. 2 LAYERS TYPE 'X' FIRE-RATED GYPSUM BOARD ON COMMERICAL

SPACE SIDE (INTERIOR)
4. 1" THICK LATH AND CEMENT PLASTER ON ONE LAYER 5/8" DENSROCK ON PARKING AREA SIDE (EXTERIOR)

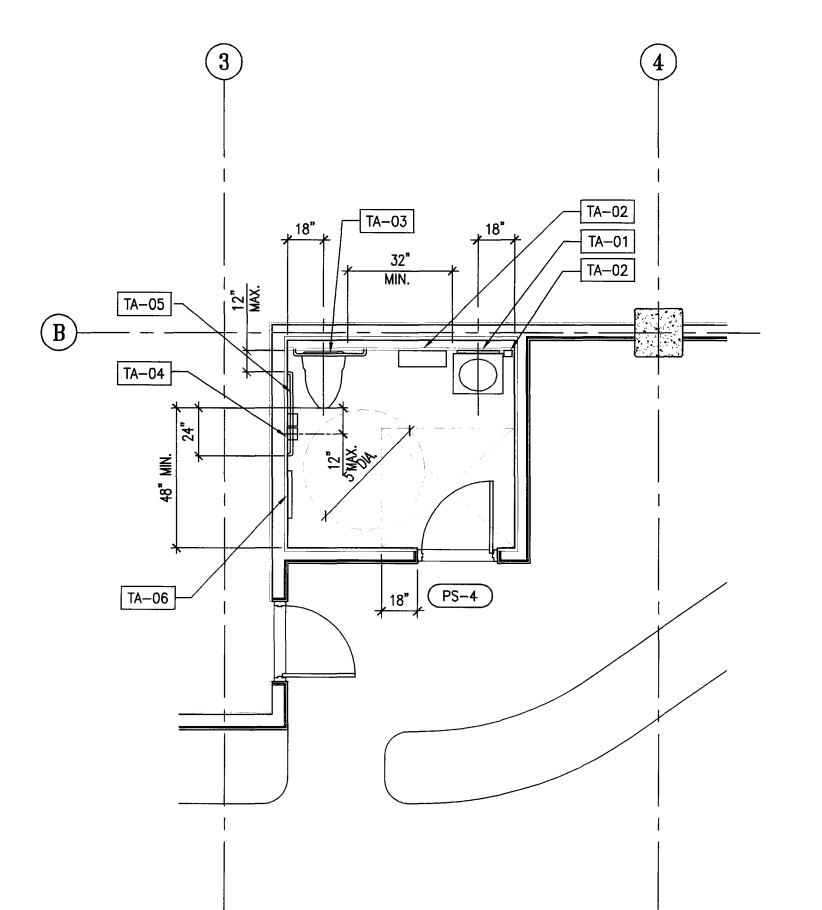
1. 40" HIGH - 8" CONCRETE MASONRY BASE WALL/SOLID GROUTED 2. 20 ga. - 6" 'C' (16" O.C.) METAL STUD WALL 3. 2 LAYERS TYPE 'X' FIRE-RATED GYPSUM BOARD ON BOTH SIDES

1. 20 ga. — 6" 'C' (16" O.C.) METAL STUD WALL 2. 1 LAYER TYPE 'X' FIRE-RATED GYPSUM BOARD ON COMMERICAL SPACE SIDE (INTERIOR) 3. 1" THICK LATH AND CEMENT PLASTER ON EXTERIOR SIDE OF WALL

TA-03 EXPOSED MOUNTING, 1-1/2" DIA., 42" LONG STAINLESS STEEL GRAB BAR B-6106x42 w/2562 CONCEALED ANCHOR PLATES TA-04 SURFACE MOUNTED, CAST ALUMINUM, LOCKING 2-ROLL TOILET TISSUE DISPENSER B-27460 TA-05 EXPOSED MOUNTING, 1-1/2" DIA. 36" LONG STAINLESS STEEL GRAB BAR B-6106x36 w/256 SURFACE ANCHOR PLATES TA-06 SURFACE MOUNTED, STAINLESS STEEL TOILET SEAT COVER DISPENSER B-221 TA-07 SURFACE MOUNTED, STAINLESS STEEL SOAP DISPENSER B-132

BOBRICK NO.

B-3699

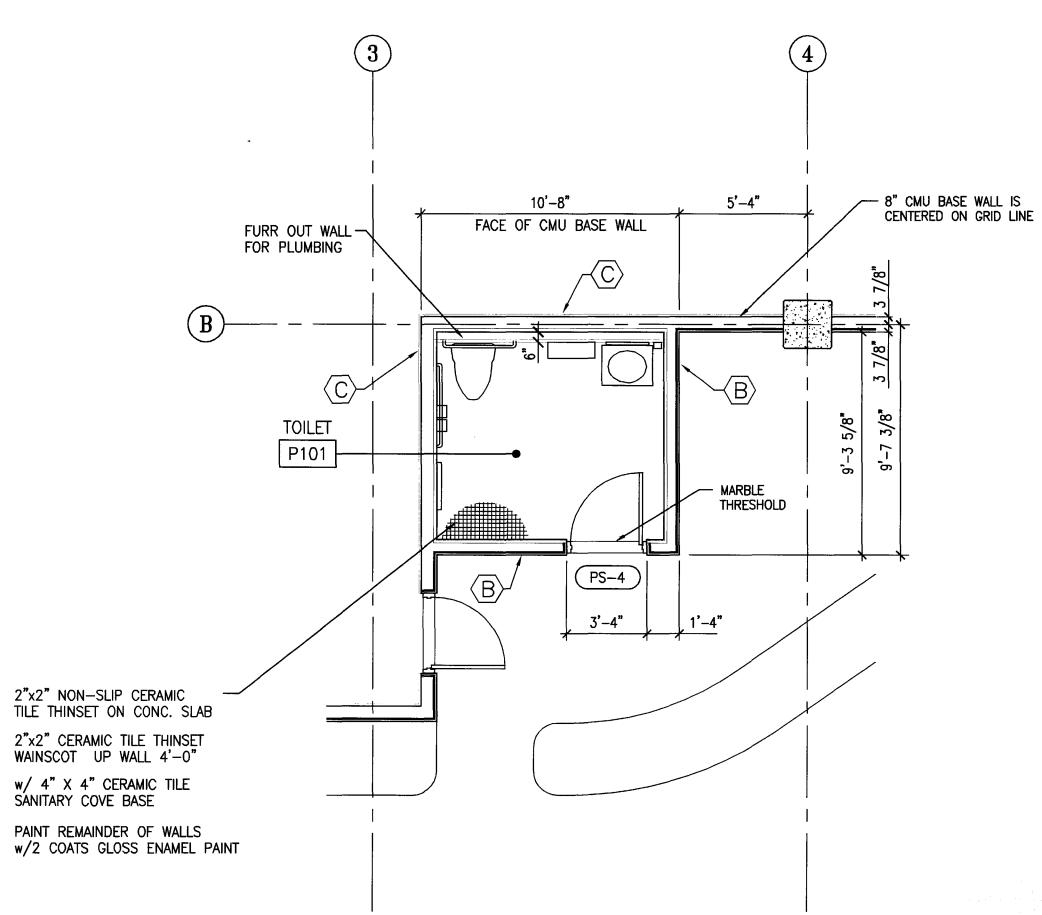


TOILET ACCESSORY LEGEND

TA-01 18"x30" MIRROR w/ STAINLESS STEEL FRAME

TA-02 SURFACE MOUNTED, STAINLESS STEEL PAPER TOWEL DISPENSER & WASTE

SYMBOL DESCRIPTION



-SOAP DISPENSER rear Wall) 4'-4"

COMPLY WITH C.A.C. TITLE 24 AND THE AMERICANS WITH DISABILITIES ACT OF 1990 FOR ALL FIXTURE MOUNTING HEIGHTS AND LOCATIONS, TYPICAL

GRAB BAR (2 SIDES)

FEATURE PLAN — TOILET ROOM SCALE: 1/4" = 1'-0"

ENLARGED PLAN - TOILET ROOM SCALE: 1/4" = 1'-0"

DATE SCALE 1/4" = 1'-0" 18, AUGUST 2004 DRAWN BY CHECKED BY ACL SBH DRAWING NO. SHEET 2320A-7-8 PROGRAM NO. R-NO.

ARENA

PARKING

CALIFORNIA

STOCKTON,

OWNER:

City of Stockton

F&H Construction 4945 Waterloo Road Stockton, California 95215

Architect - Parking Consultant HNA / Pacific

Design Architect

Wenell Mattheis Bowe

246 E. Main Street Stockton, California 95202

113 West 8th Avenue, Suite A Chico, California 95926

CM Engineer
Siegfried Engineering, Inc.

Stockton, California 95204

4045 Coronado Avenue

Plumbing Designer - Design/Builder **HRM Plumbing**

Electrical Designer - Design/Builder
Collins Electrical

611 W. Fremont Street Stockton, California 92503

Mechanical Designer - Design/Builder **Comfort Air**

1607 Turnpike Road Stockton. California 95201

CONST. DOCUMENTS

9/21/04 PERMIT SET

8/18/04 PLANCHECK SET

7/12/04 FOUNDATION ONLY SET

3650 Wilcox Road Stockton, California 95215

310. 544. 8670

209. 944. 9110

530, 894, 5345

209. 943. 2021

209. 931. 9650

209. 466. 3691

209. 466. 4601

REVISIONS:

209. 931. 3738

DESIGN BUILDER:

CONSULTANTS:

61 Sea Breeze Avenue Rancho Palos Verdes, California 90275

Structural Engineer
Jessen-Wright Structural Engineers

DRAWING NO:

SHEET TITLE

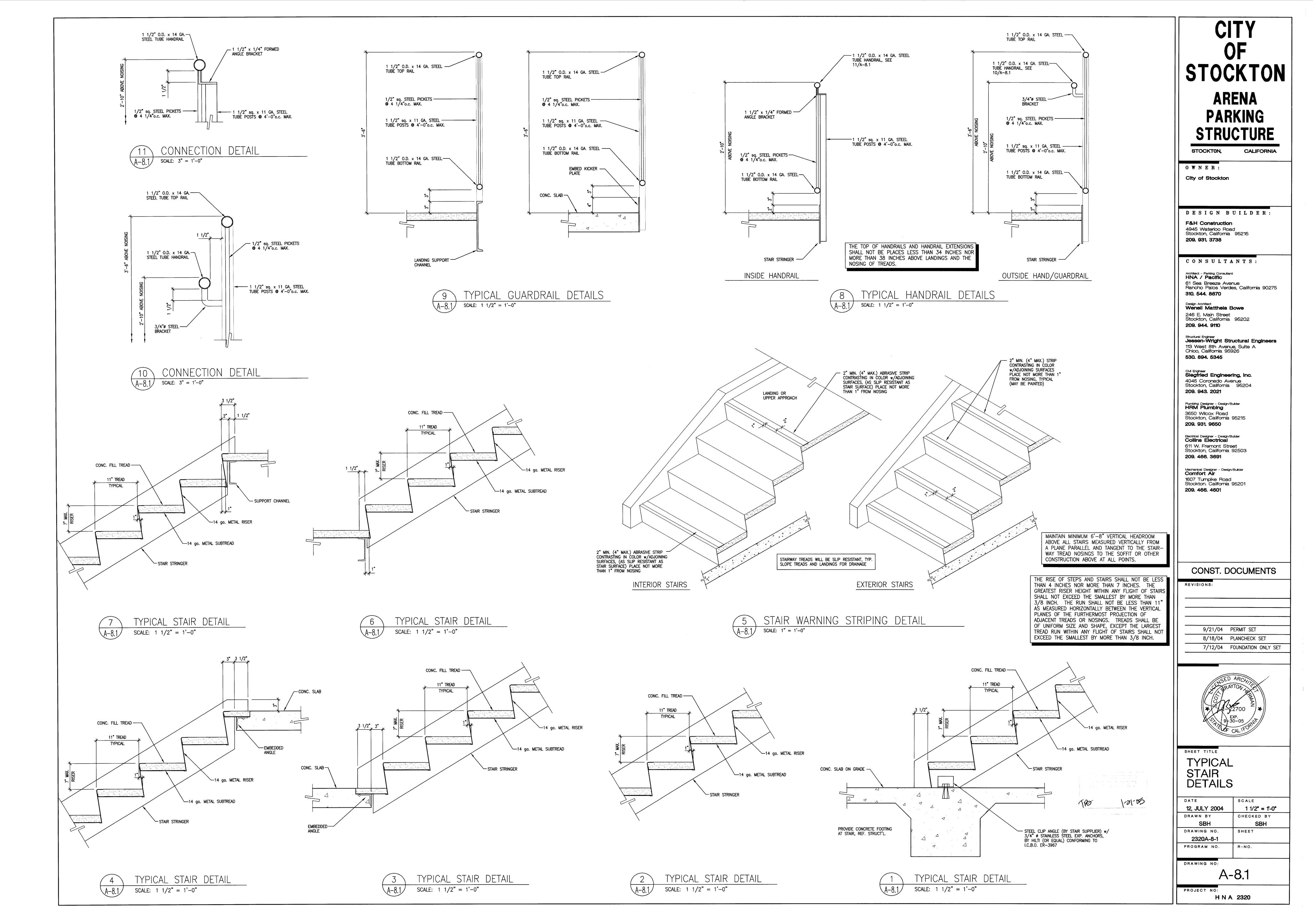
PLANS

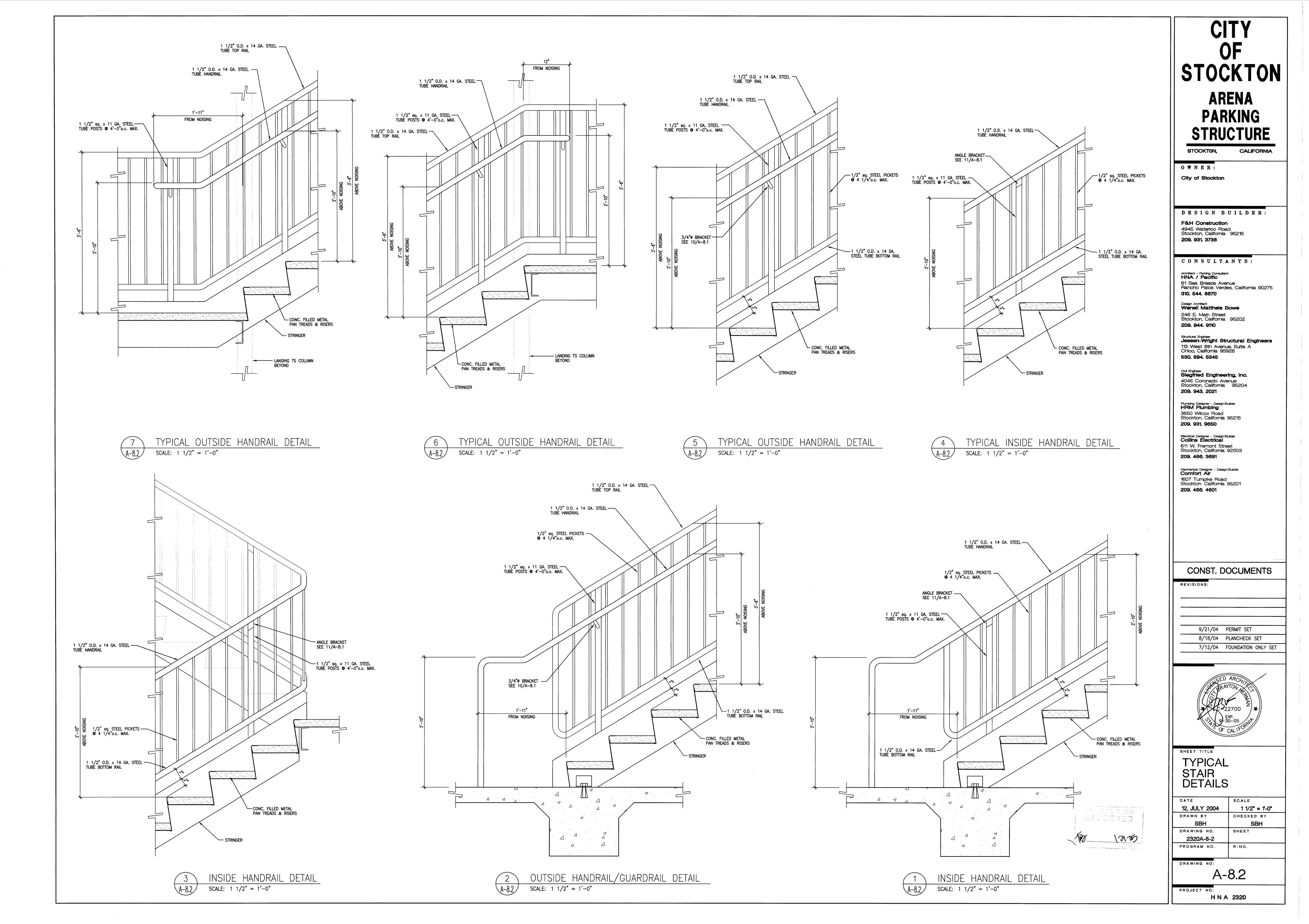
ENLARGED

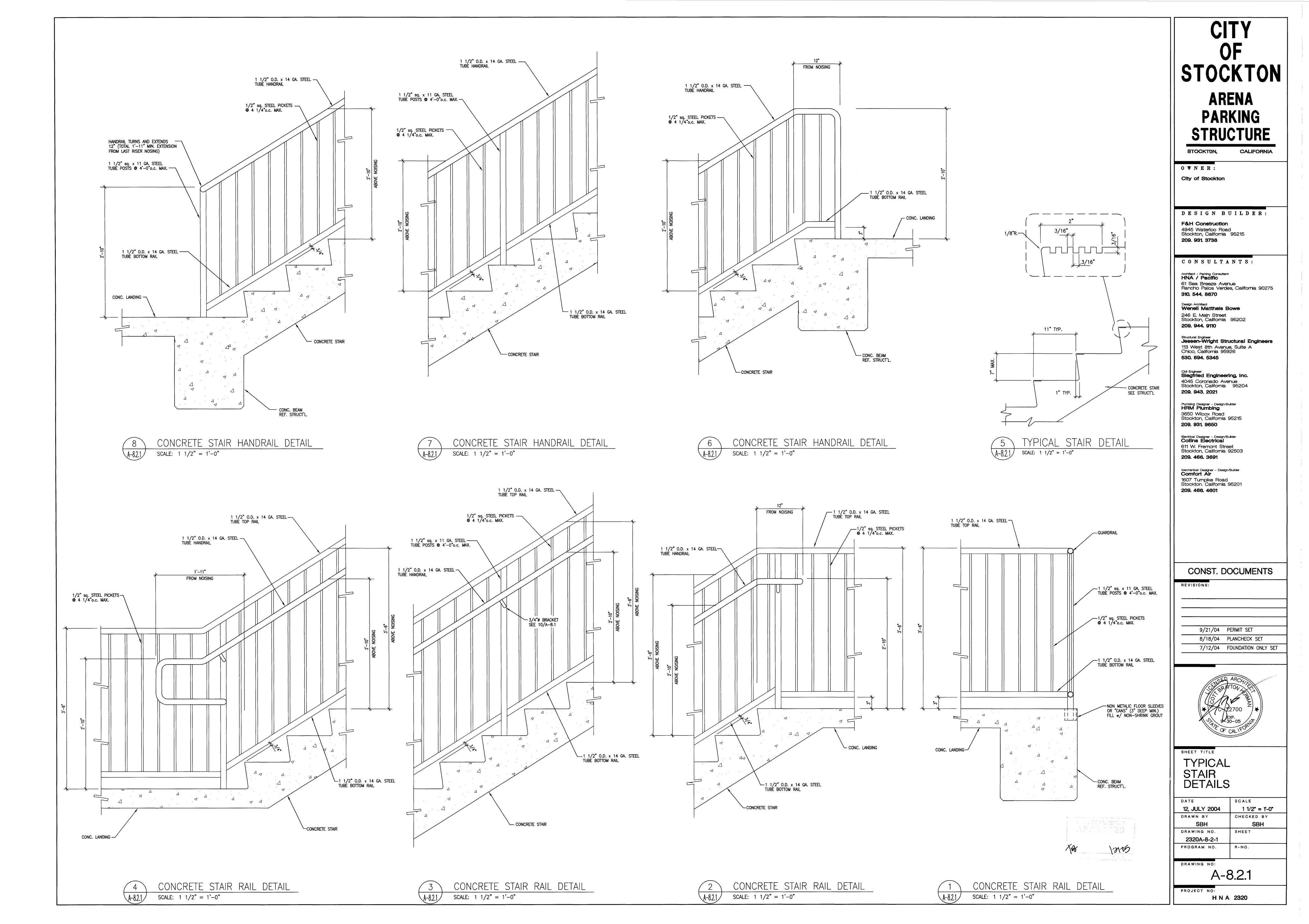
A-7.8

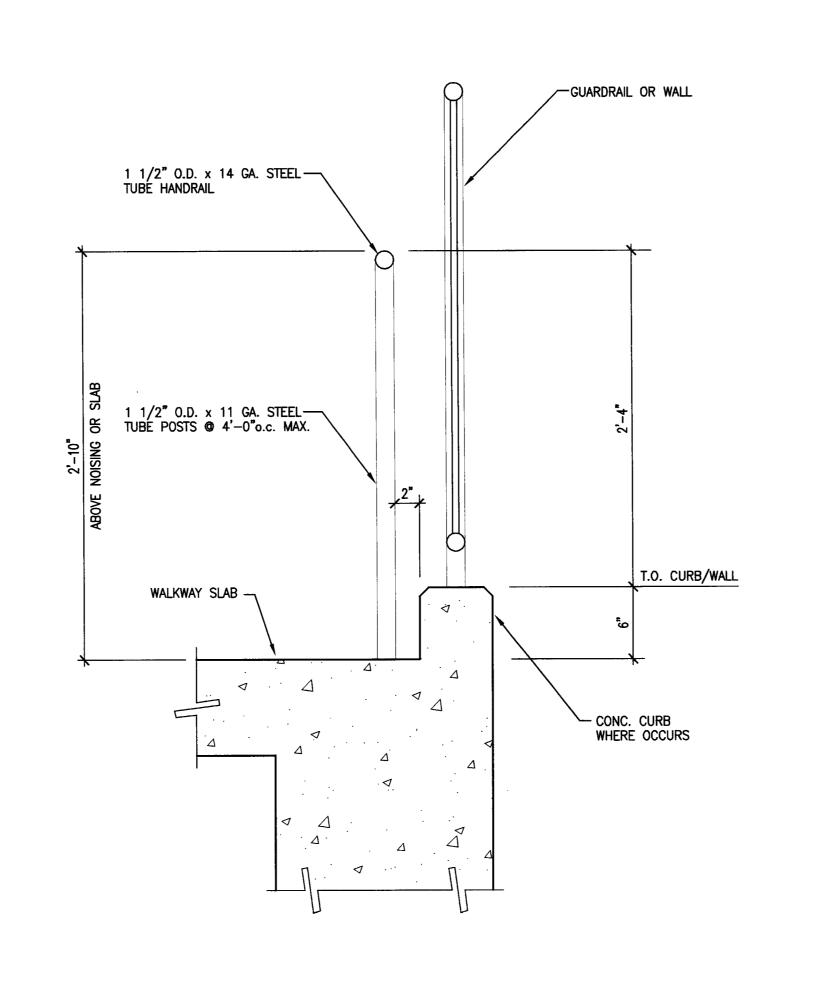
PROJECT NO: H N A 2320

TOILET FIXTURE ELEVATION SCALE: 1/4" = 1'-0"



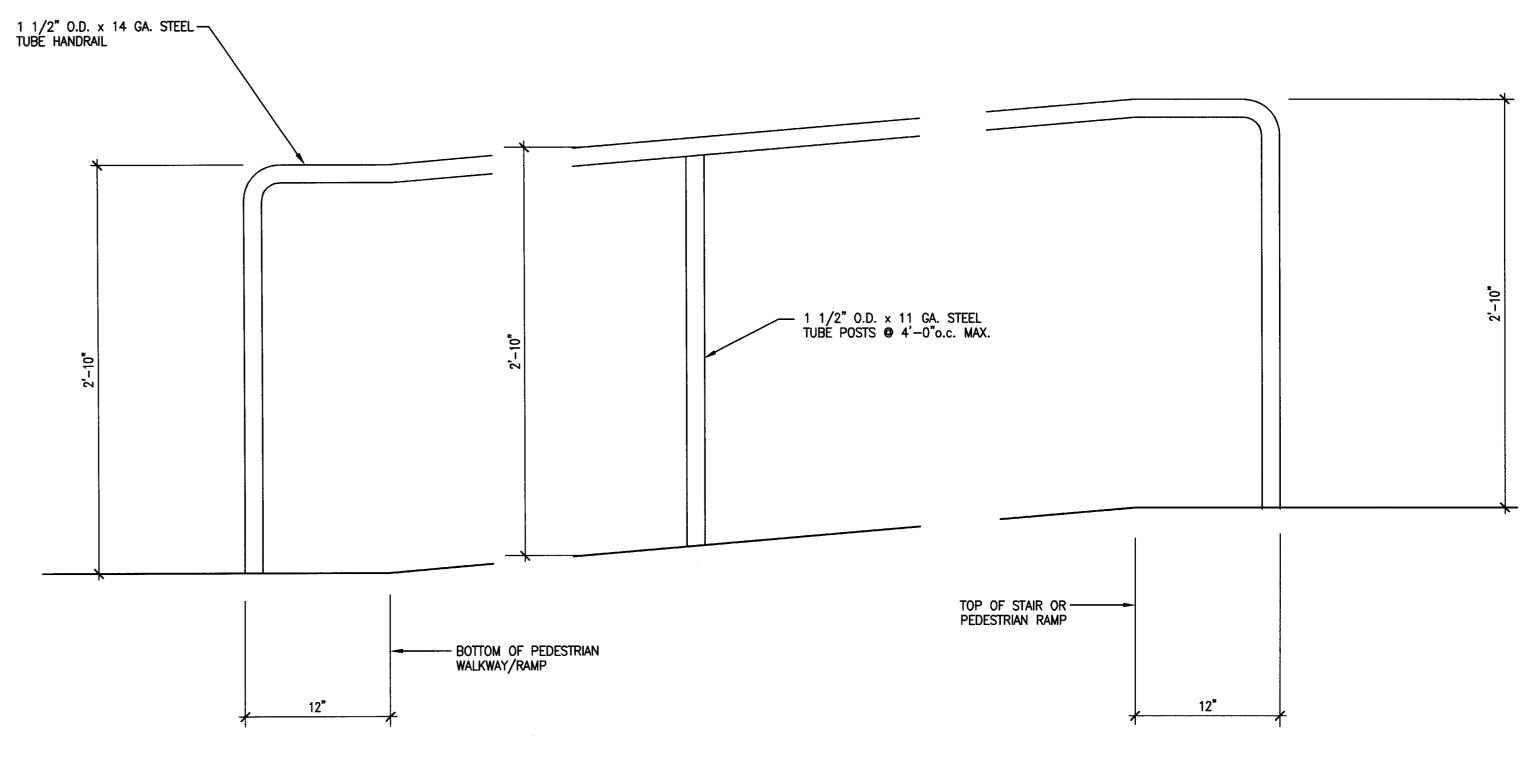


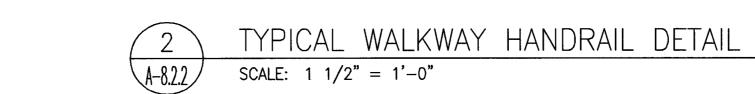


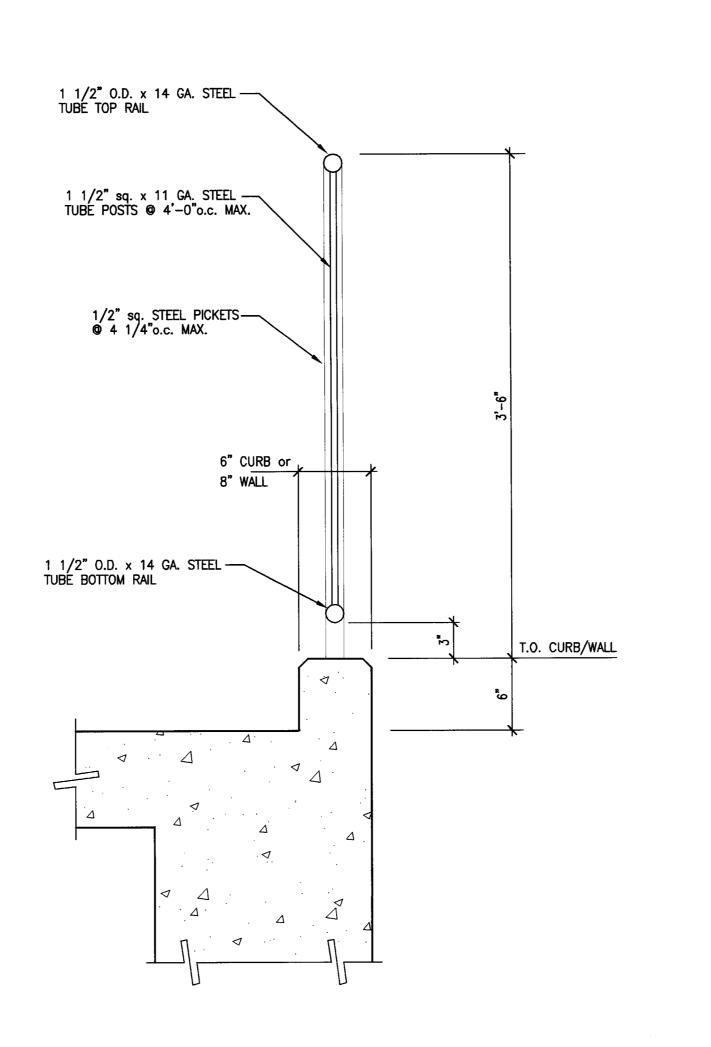


WALKWAY HANDRAIL DETAIL

SCALE: 1 1/2" = 1'-0"

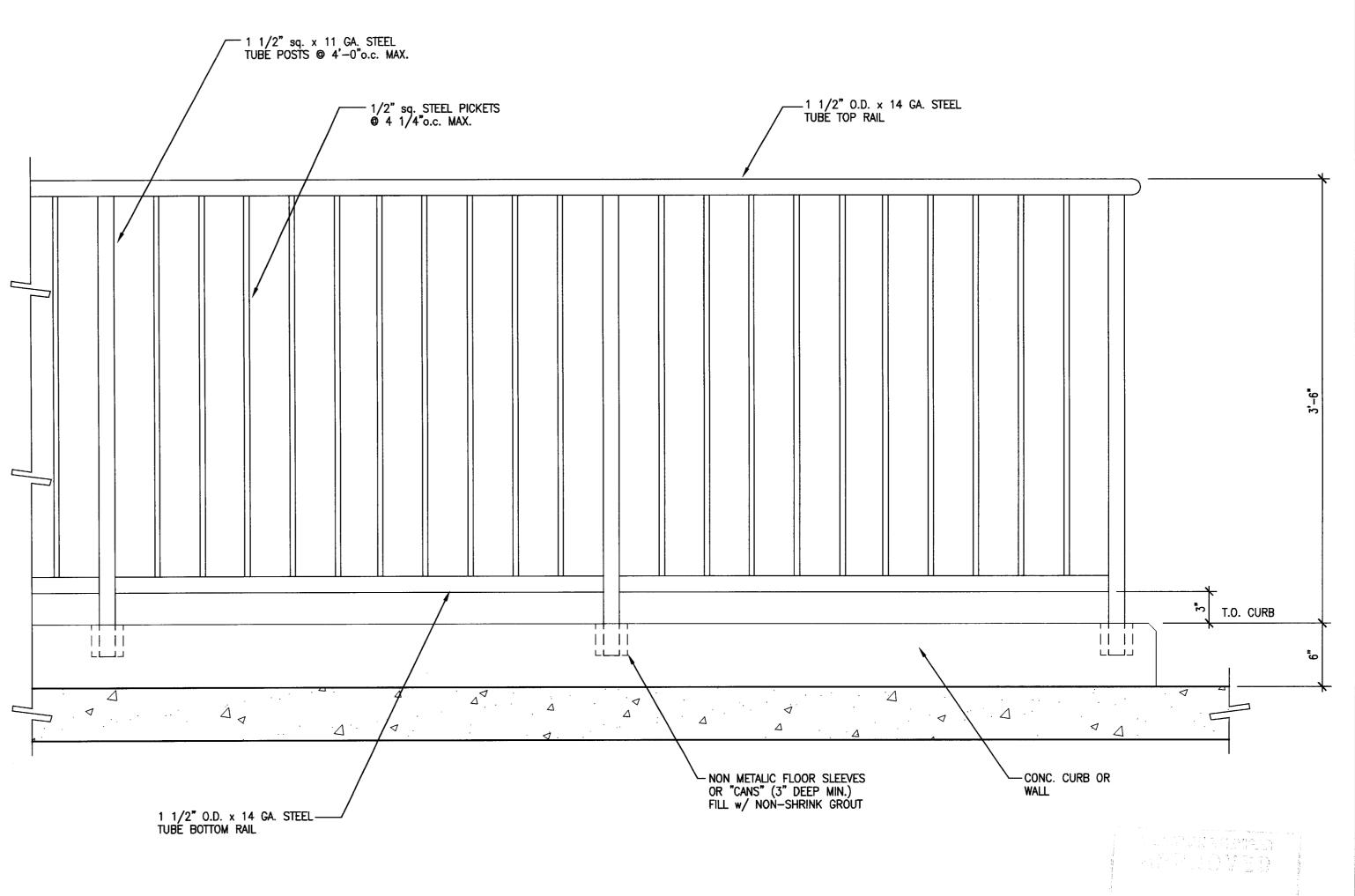






WALKWAY GUARDRAIL DETAIL

SCALE: $1 \frac{1}{2} = 1'-0"$



TYPICAL WALKWAY GUARDRAIL DETAIL

SCALE: 1 1/2" = 1'-0"

STOCKTON ARENA PARKING STRUCTURE

STOCKTON, CALIFORNIA

OWNER:

City of Stockton

DESIGN BUILDER:

F&H Construction
4945 Waterloo Road
Stockton, California 95215
209. 931. 3738

CONSULTANTS:

Architect - Parking Consultant
HNA / Pacific
61 Sea Breeze Avenue
Rancho Palos Verdes, California 90275
310. 544. 8670

Design Architect

Wenell Matthels Bowe

246 E. Main Street

Stockton, California 95202

209. 944. 9110

Structural Engineer
Jessen-Wright Structural Engineers

113 West 8th Avenue, Suite A
Chico, California 95926

CMI Engineer
Slegfried Engineering, Inc.
4045 Coronado Avenue
Stockton, California 95204
209. 943. 2021

530. 894. 5345

Plumbing Designer - Design/Builder HRM Plumbing
3650 Wilcox Road
Stockton, California 95215
209. 931. 9650

Electrical Designer - Design/Builder
Collins Electrical
611 W. Fremont Street
Stockton, California 92503
209. 466. 3691

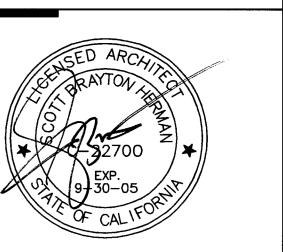
Mechanical Designer - Design/Builder **Comfort Air** 1607 Turnpike Road Stockton. California 95201 **209. 466. 4601**

CONST. DOCUMENTS

REVISIONS:

9/21/04 PERMIT SET 8/18/04 PLANCHECK SET

7/12/04 FOUNDATION ONLY SET



TYPICAL WALKWAY DETAILS

DATE SCALE

12, JULY 2004 1 1/2" = 1'-0"

DRAWN BY CHECKED BY

SBH SBH

DRAWING NO. SHEET

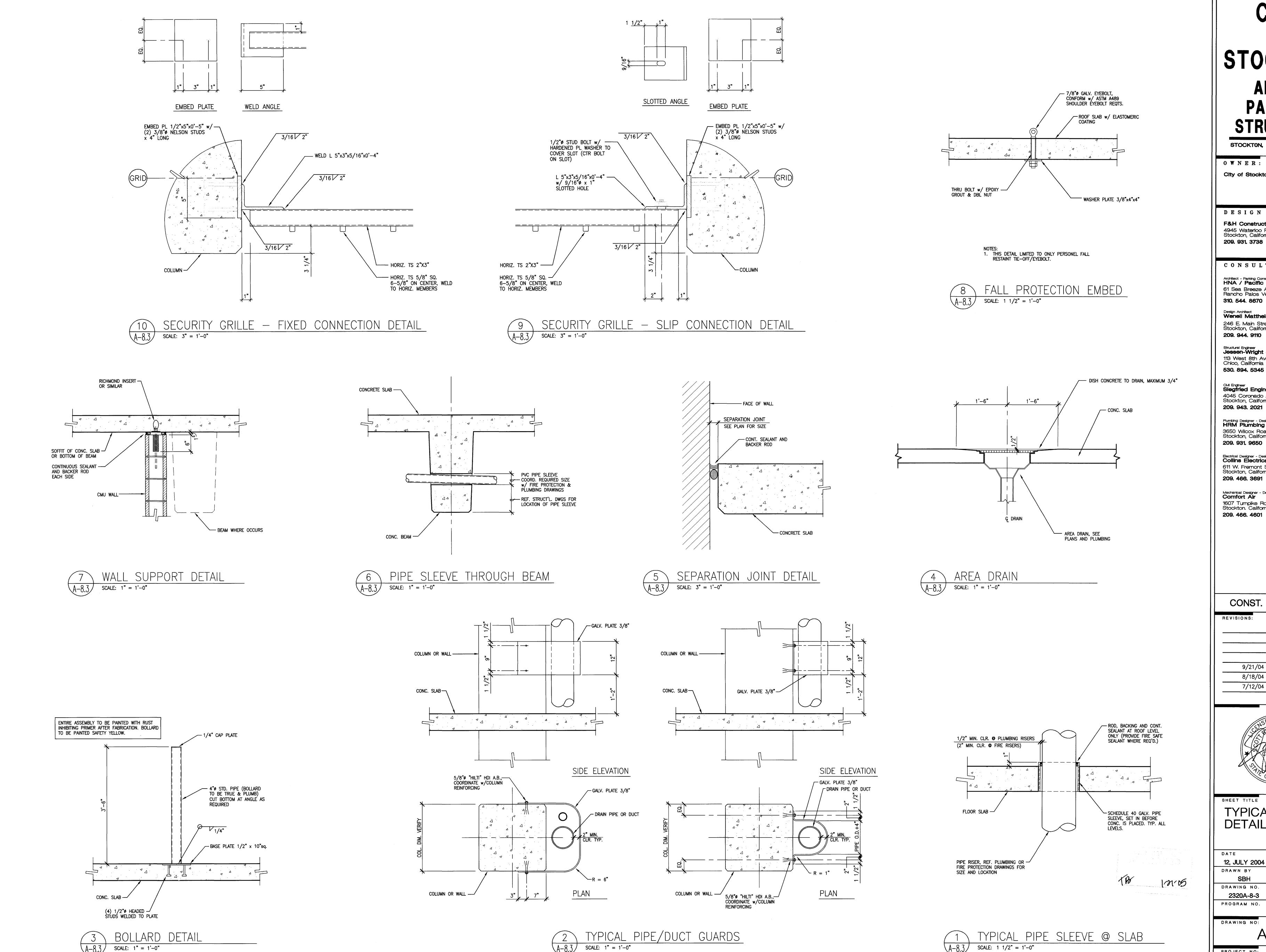
2320A-8-2-2

PROGRAM NO. R-NO.

DRAWING NO:

12/16

A-8.2.2



A-8.3 SCALE: 1" = 1'-0"

STOCKTON **ARENA PARKING STRUCTURE**

> STOCKTON, **CALIFORNIA**

City of Stockton

DESIGN BUILDER:

F&H Construction 4945 Waterloo Road Stockton, California 95215

CONSULTANTS:

Architect - Parking Consultant HNA / Pacific 61 Sea Breeze Avenue Rancho Palos Verdes, California 90275 310. 544. 8670

Design Architect

Wenell Mattheis Bowe 246 E. Main Street Stockton, California 95202

Structural Engineer

Jessen-Wright Structural Engineers 113 West 8th Avenue, Suite A Chico, California 95926

CM Engineer
Siegfried Engineering, Inc. 4045 Coronado Avenue Stockton, California 95204

Plumbing Designer - Design/Builder **HRM Plumbing** 3650 Wilcox Road Stockton, California 95215

Electrical Designer - Design/Builder
Collins Electrical 611 W. Fremont Street Stockton, California 92503 209. 466. 3691

Mechanical Designer - Design/Bullder **Comfort Air** 1607 Turnpike Road Stockton. California 95201 209. 466. 4601

CONST. DOCUMENTS

REVISIONS:

9/21/04 PERMIT SET

8/18/04 PLANCHECK SET 7/12/04 FOUNDATION ONLY SET



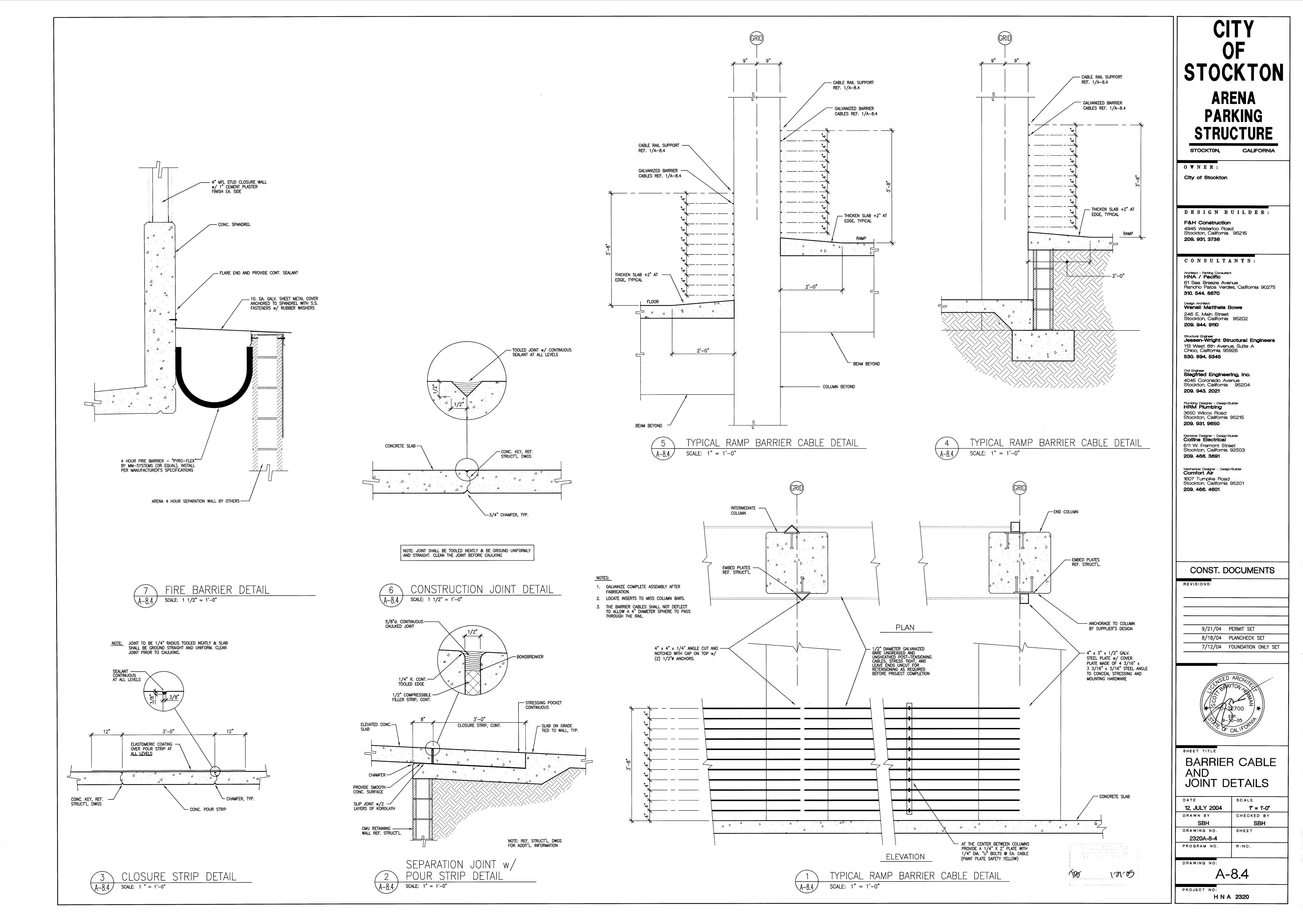
TYPICAL DETAILS

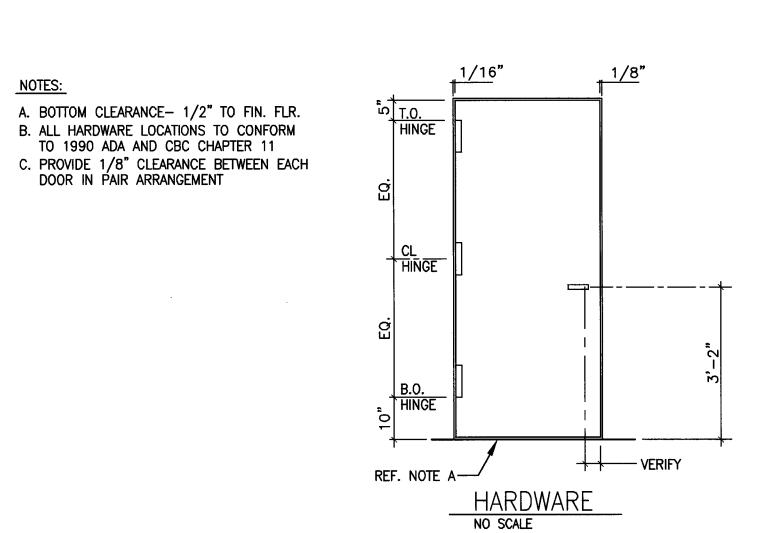
SCALE 12, JULY 2004 $1^n = 1'-0^n$ DRAWN BY CHECKED BY SBH DRAWING NO. SHEET 2320A-8-3

R-NO.

SCALE: $1 \frac{1}{2} = 1'-0"$

A-8.3



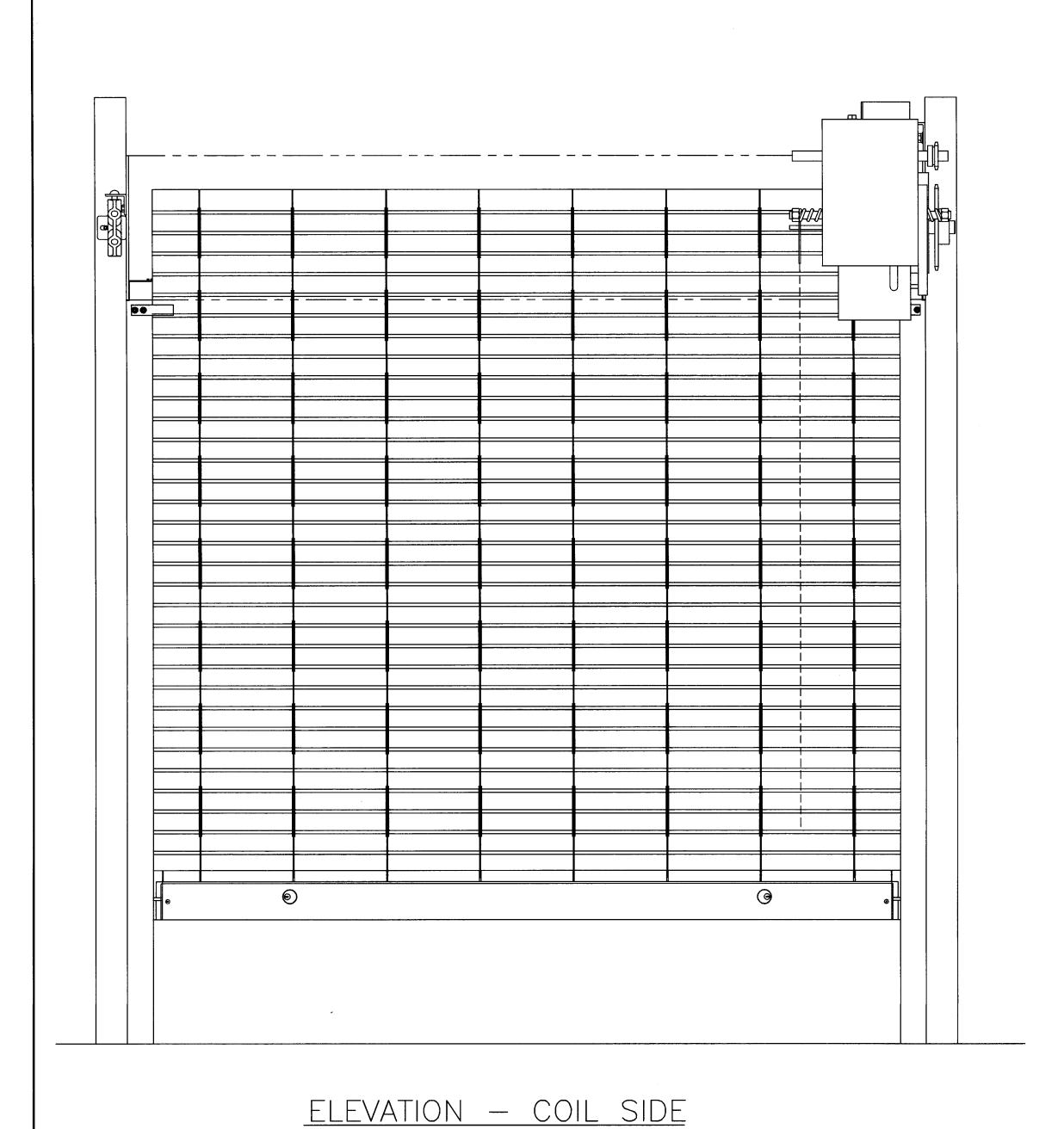


NOTES:

					DOOR			FRAME	- -			FIRE RATING		HARDWARE	WALL TYPE	
EVEL	LOCATION	DOOR NO.	TYPE	MAT'L	DOOR SIZE	THICK.	MAT'L	DETAIL	JAMB	LOUVER	CLOSER	HRS.	SILL DET.	TYPE		REMARKS
P-1	ELECTRICAL ROOM	PS-1	В	Н.М.	3'-0" X 7'-0"	1 3/4"	H.M.	2/A-8.5	3/A-8.5	YES	YES	NONE	-	LEVER*	8" CMU	DOOR AND FRAME SHALL BE MINIMUM 16 GAUGE STEEL
⊃ – 1	UTILITY ROOM	PS-2	В	H.M.	3'-0" X 7'-0"	1 3/4"	H.M.	2/A-8.5	3/A-8.5	YES	YES	NONE	_	LEVER*	8" CMU	DOOR AND FRAME SHALL BE MINIMUM 16 GAUGE STEEL
P-1	ELEV. CONTR. ROOM	PS-3	Α	H.M.	3'-6" X 7'-0"	1 3/4"	H.M.	2/A-8.5	3/A-8.5	NO	YES	NONE	_	LEVER*	8" CMU	DOOR AND FRAME SHALL BE MINIMUM 16 GAUGE STEEL
P-1	TOILET	PS-4	В	H.M.	3'-0" X 7'-0"	1 3/4"	H.M.	2/A-8.5	3/A-8.5	NO	YES	NONE	_	LEVER*	8" CMU	DOOR AND FRAME SHALL BE MINIMUM 16 GAUGE STEEL
P-1	COMMERICAL SPACE	PS-5	В	H.M.	3'-0" X 7'-0"	1 3/4"	H.M.	_	6/A-8.5	NO	YES	1 1/2 HOURS		LEVER*	TYPE A	DOOR AND FRAME SHALL BE MINIMUM 16 GAUGE STEEL
P−1	COMMERICAL SPACE	PS-6	В	H.M.	3'-0" X 7'-0"	1 3/4"	H.M.	-	6/A-8.5	NO	YES	1 1/2 HOURS	_	LEVER*	TYPE A	DOOR AND FRAME SHALL BE MINIMUM 16 GAUGE STEEL
P-1	COMMERICAL SPACE	PS-7	В	H.M.	3'-0" X 7'-0"	1 3/4"	H.M.	_	6/A-8.5	NO	YES	1 1/2 HOURS	_	LEVER*	TYPE A	DOOR AND FRAME SHALL BE MINIMUM 16 GAUGE STEEL
P-1	COMMERICAL SPACE	PS-8	В	H.M.	3'-0" X 7'-0"	1 3/4"	H.M.	_	6/A-8.5	NO	YES	1 1/2 HOURS		LEVER*	TYPE A	DOOR AND FRAME SHALL BE MINIMUM 16 GAUGE STEEL
																*HARDWARE TO BE CITY OF STOCKTON POLICE DEPARTMENT APPROVED MORTISE DEADBOLT LOCK

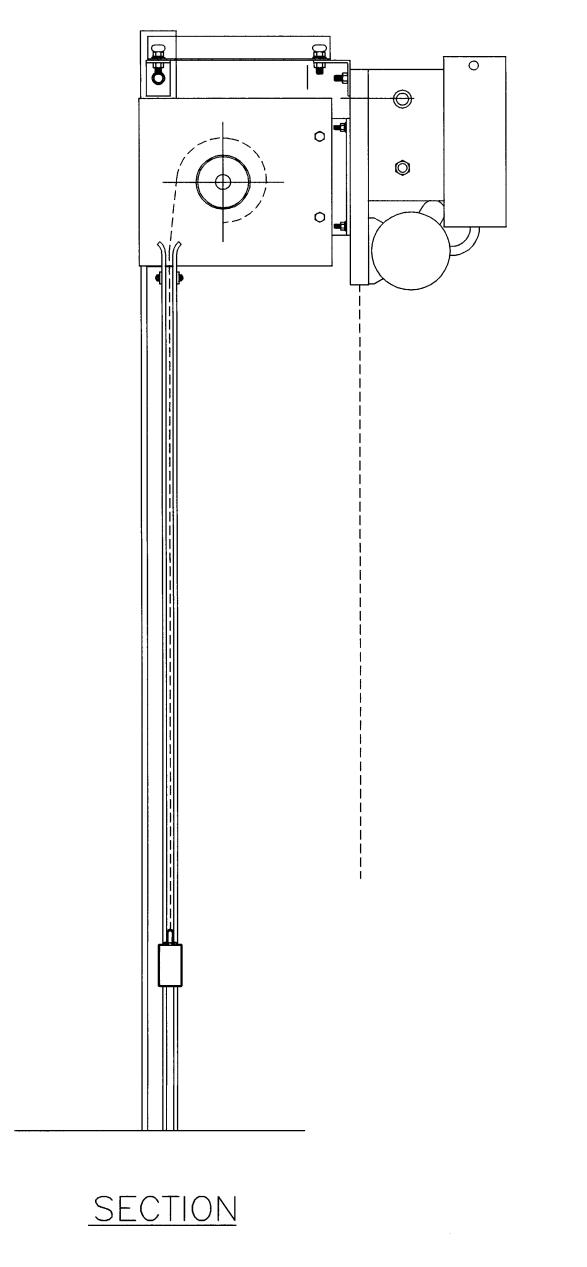
DOOR HARDWARE MOUNTING A-8.5 SCALE: 1/2" = 1 '-0"

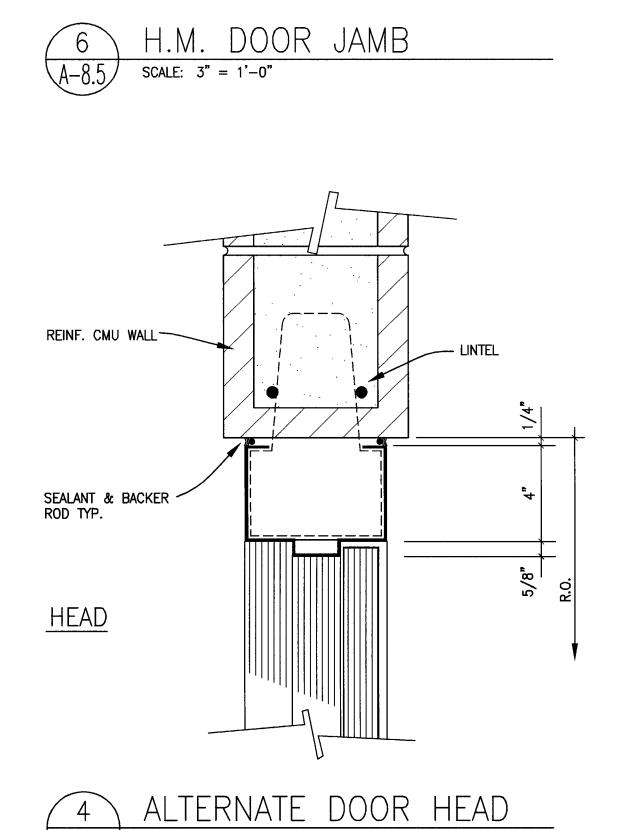
DOOR SCHEDULE A-8.5 SCALE: NO SCALE

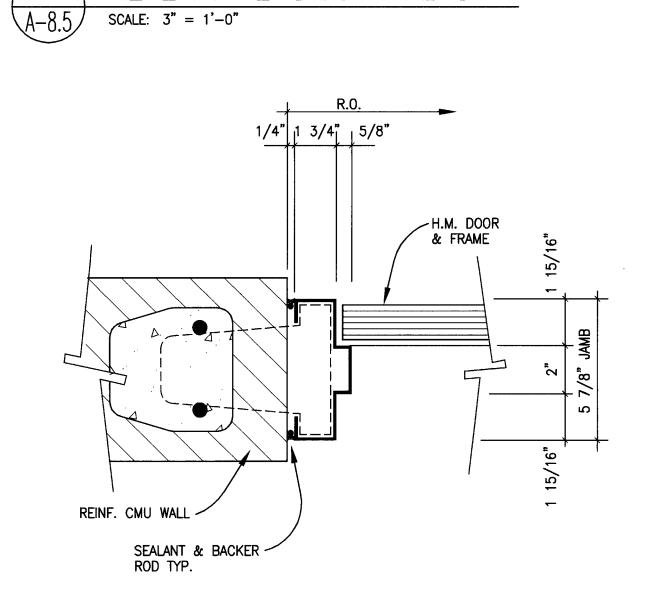


5 ROLL DOWN VEHICULAR GRILLE

A-8.5 scale: NO SCALE

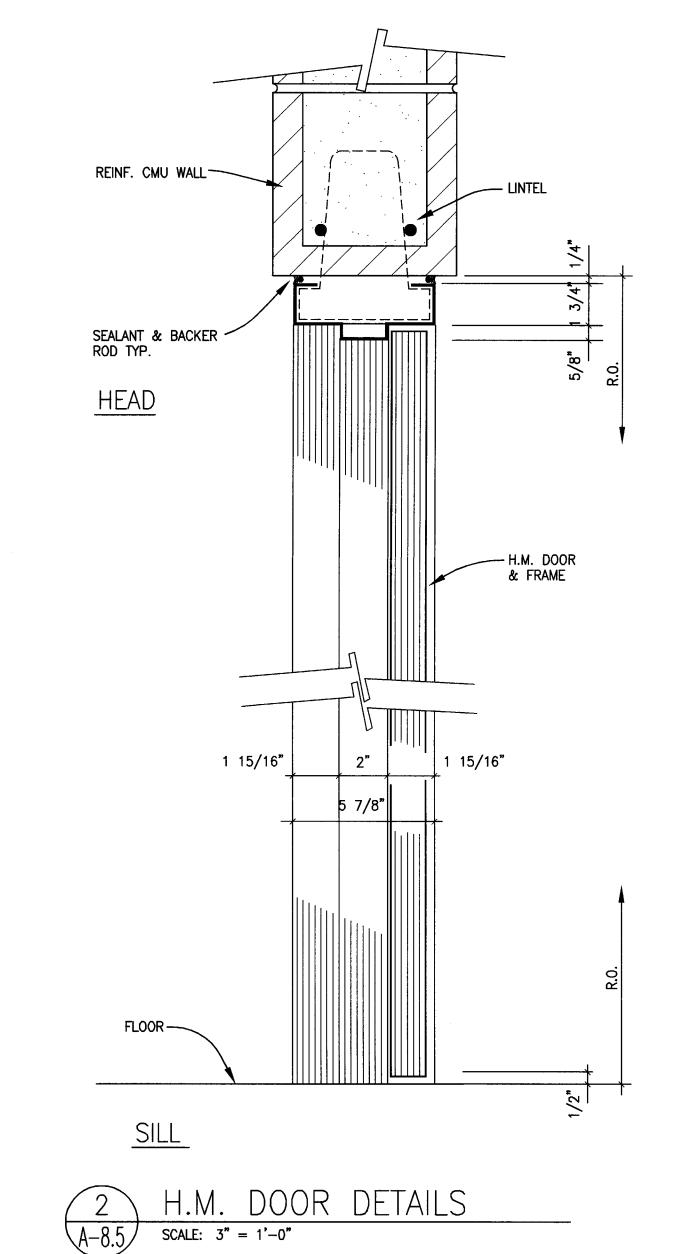


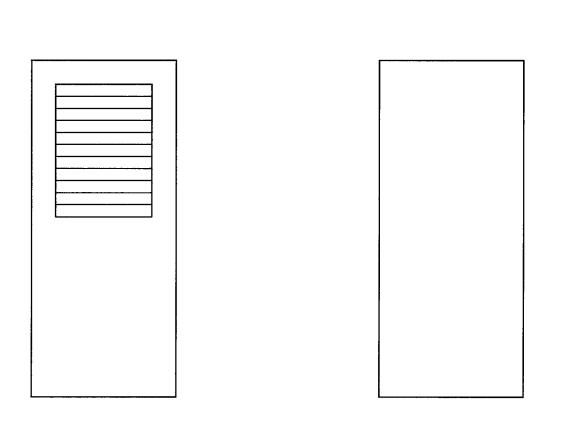




3 H.M. DOOR JAMB

A-8.5 SCALE: 3" = 1'-0"





B SINGLE HALF LOUVER DOOR

1.21.00

1 DOOR TYPES
A-8.5 SCALE: 1/2" =1 '-0"

STOCKTON **ARENA PARKING** STRUCTURE

> **CALIFORNIA** STOCKTON,

OWNER: City of Stockton

209. 931. 3738

DESIGN BUILDER: F&H Construction 4945 Waterloo Road Stockton, California 95215

CONSULTANTS:

Architect - Parking Consultant HNA / Pacific 61 Sea Breeze Avenue Rancho Palos Verdes, California 90275 310. 544. 8670

Design Architect

Wenell Matthels Bowe 246 E. Main Street Stockton, California 95202 209. 944. 9110

Structural Engineer

Jessen-Wright Structural Engineers 113 West 8th Avenue, Suite A Chico, California 95926 530. 894. 5345

CM Engineer
Slegfried Engineering, Inc. 4045 Coronado Avenue Stockton, California 95204 209. 943. 2021

3650 Wilcox Road Stockton, California 95215 209. 931. 9650

Electrical Designer - Design/Builder
Collins Electrical 611 W. Fremont Street Stockton, California 92503 209. 466. 3691

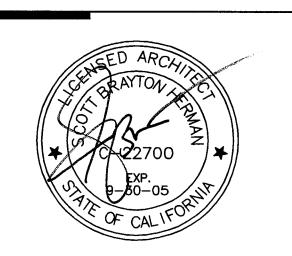
Mechanical Designer - Design/Builder Comfort Air 1607 Turnpike Road Stockton. California 95201 209. 466. 4601

CONST. DOCUMENTS

REVISIONS:

9/21/04 PERMIT SET

8/18/04 PLANCHECK SET 7/12/04 FOUNDATION ONLY SET

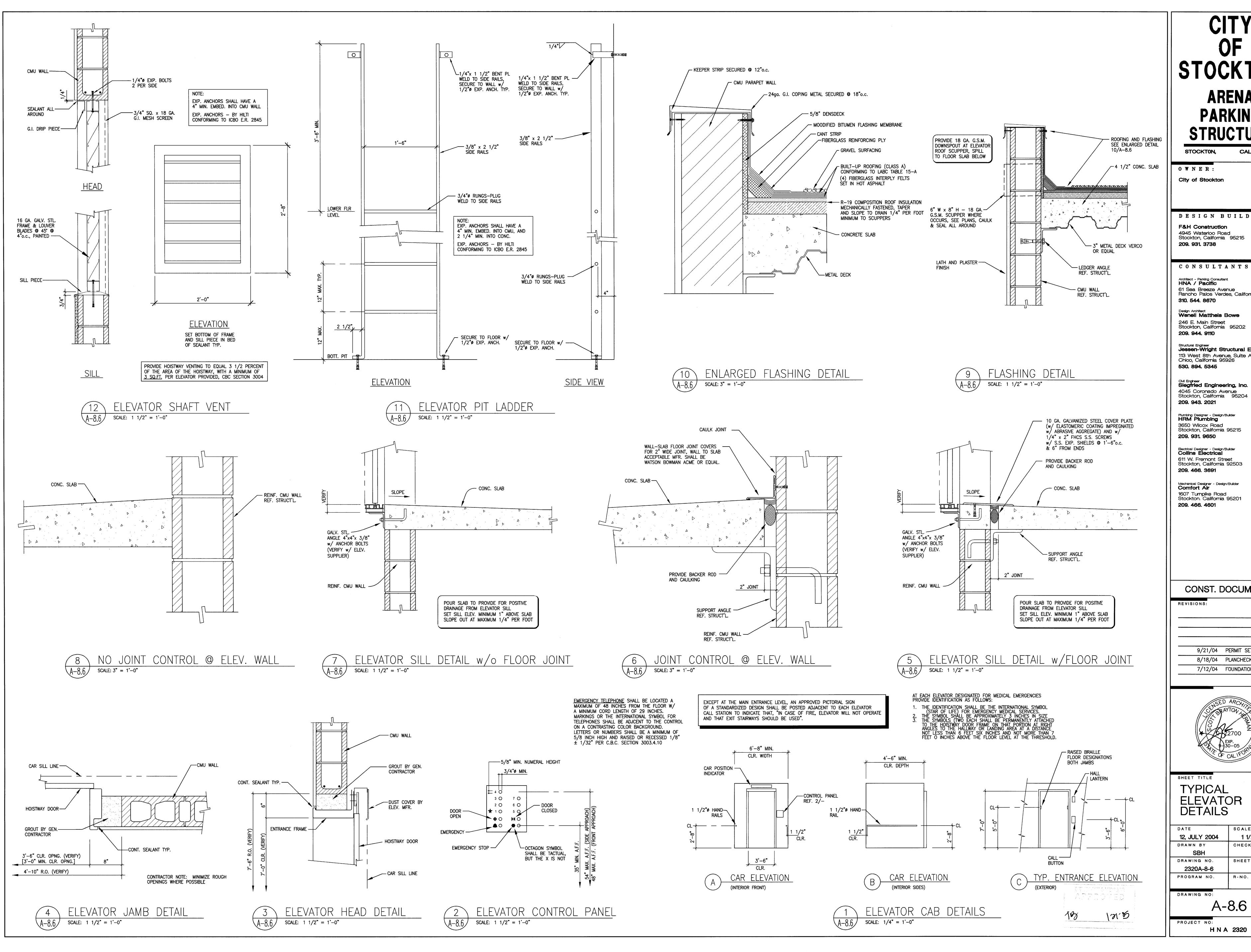


DOOR DETAILS AND DOOR SCHEDULE

AS NOTED 12, JULY 2004 CHECKED BY DRAWN BY DRAWING NO. 2320A-8-5

PROGRAM NO.

DRAWING NO: A-8.5



> **CALIFORNIA** STOCKTON,

City of Stockton

DESIGN BUILDER:

F&H Construction 4945 Waterloo Road Stockton, California 95215

CONSULTANTS:

Architect - Parking Consultant HNA / Pacific 61 Sea Breeze Avenue Rancho Palos Verdes, California 90275 310. 544. 8670

Design Architect
Wenell Mattheis Bowe 246 E. Main Street Stockton, California 95202

Structural Engineer
Jessen-Wright Structural Engineers 113 West 8th Avenue, Suite A Chico, California 95926

530. 894. 5345 CM Engineer
Slegfried Engineering, Inc.

209. 943. 2021 Plumbing Designer - Design/Builder **HRM Plumbing** 3650 Wilcox Road

Bectrical Designer - Design/Builder Collins Electrical 611 W. Fremont Street Stockton, California 92503

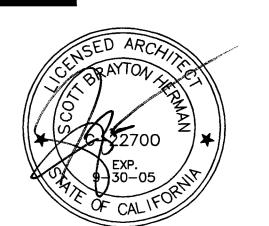
Mechanical Designer - Design/Builder Comfort Air 1607 Turnpike Road Stockton, California 95201

CONST. DOCUMENTS

REVISIONS:

9/21/04 PERMIT SET

8/18/04 PLANCHECK SET 7/12/04 FOUNDATION ONLY SET

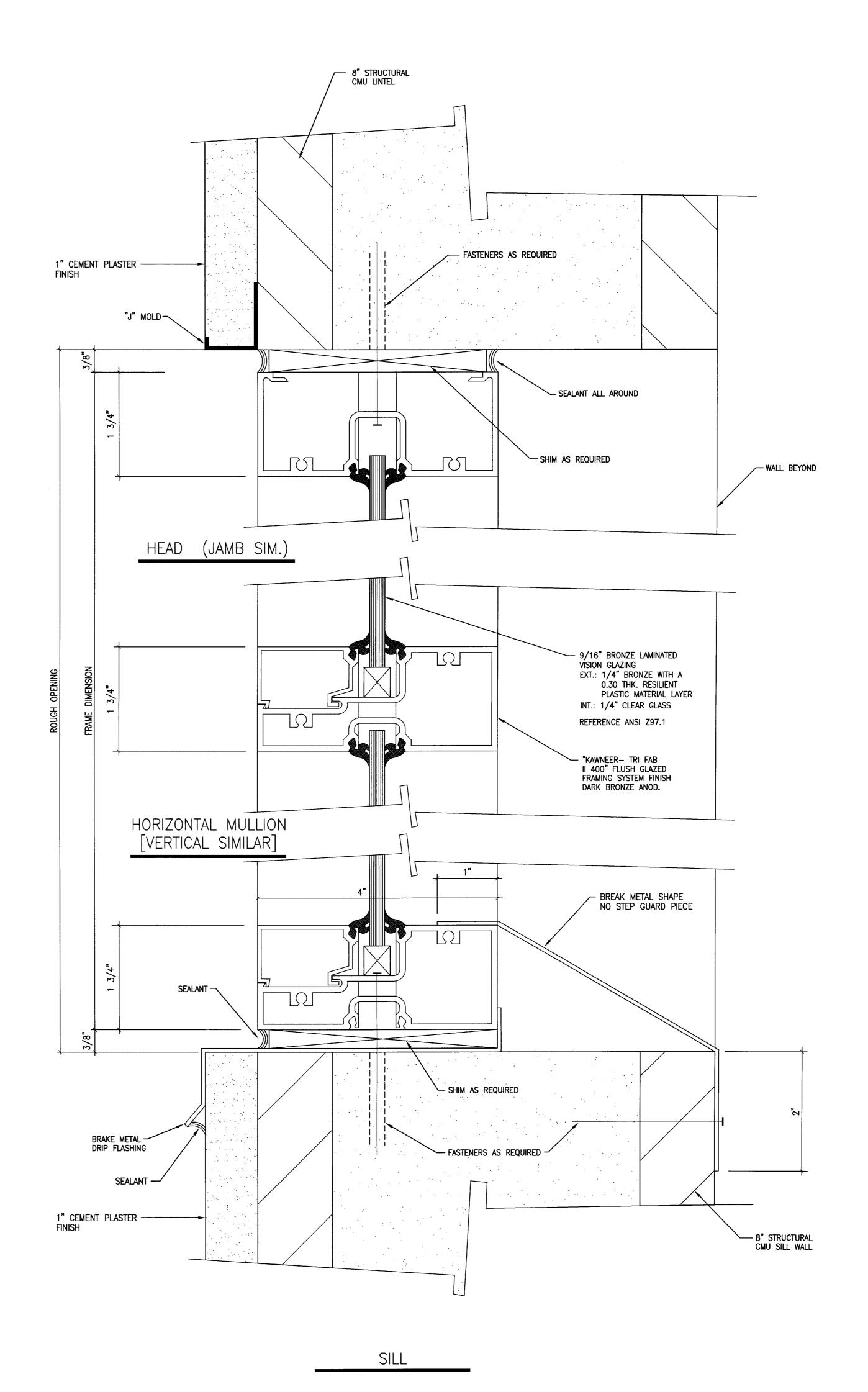


SHEET TITLE **TYPICAL ELEVATOR** DETAILS

SCALE 1 1/2" = 1'-0" 12, JULY 2004 CHECKED BY DRAWN BY SBH DRAWING NO. SHEET

A-8.6

R-NO.



1 ELEVATOR HOISTWAY WINDOW DETAILS

A-8.7 SCALE: FULL

STOCKTON **ARENA PARKING** STRUCTURE

STOCKTON, **CALIFORNIA**

OWNER:

City of Stockton

DESIGN BUILDER:

F&H Construction 4945 Waterloo Road Stockton, California 95215 209. 931. 3738

CONSULTANTS:

Architect - Parking Consultant HNA / Pacific 61 Sea Breeze Avenue Rancho Palos Verdes, California 90275 310. 544. 8670

Design Architect
Wenell Mattheis Bowe 246 E. Main Street Stockton, California 95202 209. 944. 9110

Structural Engineer

Jessen-Wright Structural Engineers

113 West 8th Avenue, Suite A
Chico, California 95926 530. 894. 5345

CM Engineer
Slegfried Engineering, Inc. 4045 Coronado Avenue Stockton, California 95204 209. 943. 2021

Plumbing Designer - Design/Builder **HRM Plumbing** 3650 Wilcox Road Stockton, California 95215 209. 931. 9650

Electrical Designer - Design/Builder
Collins Electrical 611 W. Fremont Street Stockton, California 92503 209. 466. 3691

Mechanical Designer - Design/Builder **Comfort Air** 1607 Turnpike Road Stockton. California 95201 209. 466. 4601

CONST. DOCUMENTS

REVISIONS:

9/21/04 PERMIT SET

8/18/04 PLANCHECK SET 7/12/04 FOUNDATION ONLY SET

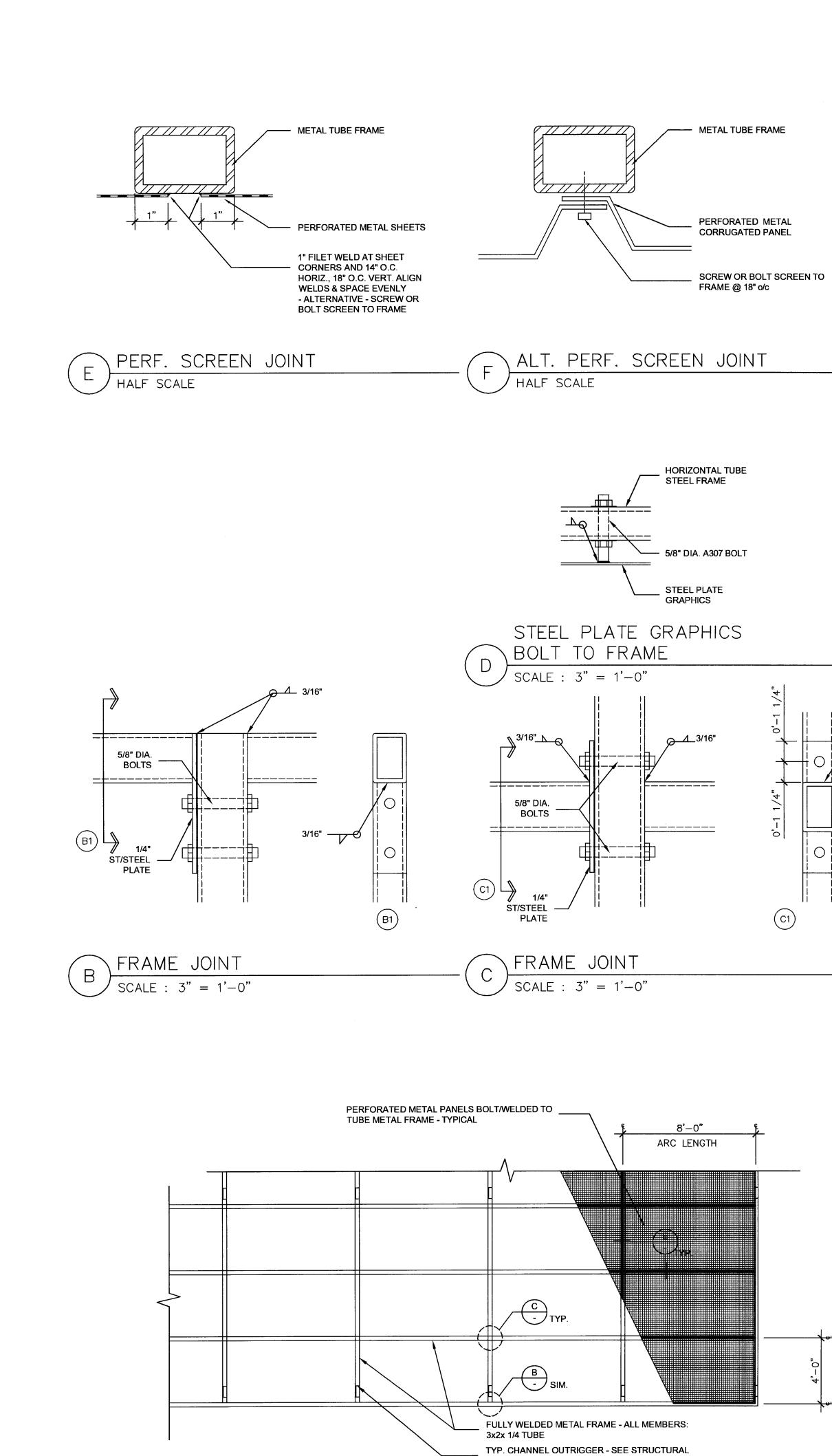


SHEET TITLE ELEVATOR HOISTWAY WINDOW DETAILS

SCALE 12, JULY 2004 AS NOTED CHECKED BY DRAWN BY SBH DRAWING NO. 2320A-8-7 PROGRAM NO.

DRAWING NO:

A-8.7



A TYPICAL METAL SCREEN ELEVATION

SCALE: 1/4" = 1'-0"

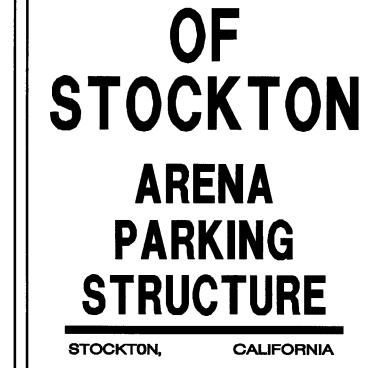
ATTACHMENT OF GRAPHICS:

HORIZONTAL.

SCREEN MIN. OF (2) 5/8" DIA. BOLTS PER LETTER.

SPACER MOUNTED LETTERS SHALL BE BOLTED TO PERFORATED METAL

ARTIST'S PANELS SHALL BE BOLTED TO HORIZONTAL TUBE METAL FRAME PER DETAIL E ON THIS SHEET MIN. OF (2) 5/8" DIA. BOLTS PER PANEL AT EACH



OWNER:

City of Stockton

DESIGN BUILDER:

F&H Construction 4945 Waterloo Road Stockton, California 95215 209. 931. 3738

CONSULTANTS:

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310. 544. 8670 Design Architect
Wenell Matthels Bowe

246 E. Main Street Stockton, California 95202 209. 944. 9110

Structural Engineer

Jessen-Wright Structural Engineers 113 West 8th Avenue, Suite A Chico, California 95926 530. 894. 5345

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Slegfried Engineering, Inc. 4045 Coronado Avenue Stockton, California 95204 209. 943. 2021

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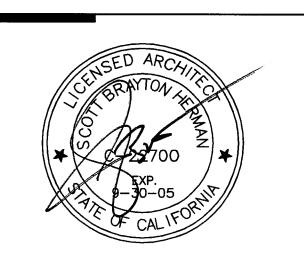
Mechanical Designer - Design/Bullder **Comfort Air** 1607 Turnpike Road Stockton. California 95201 209. 466. 4601

CONST. DOCUMENTS

REVISIONS:

9/21/04 PERMIT SET

8/18/04 PLANCHECK SET 7/12/04 FOUNDATION ONLY SET



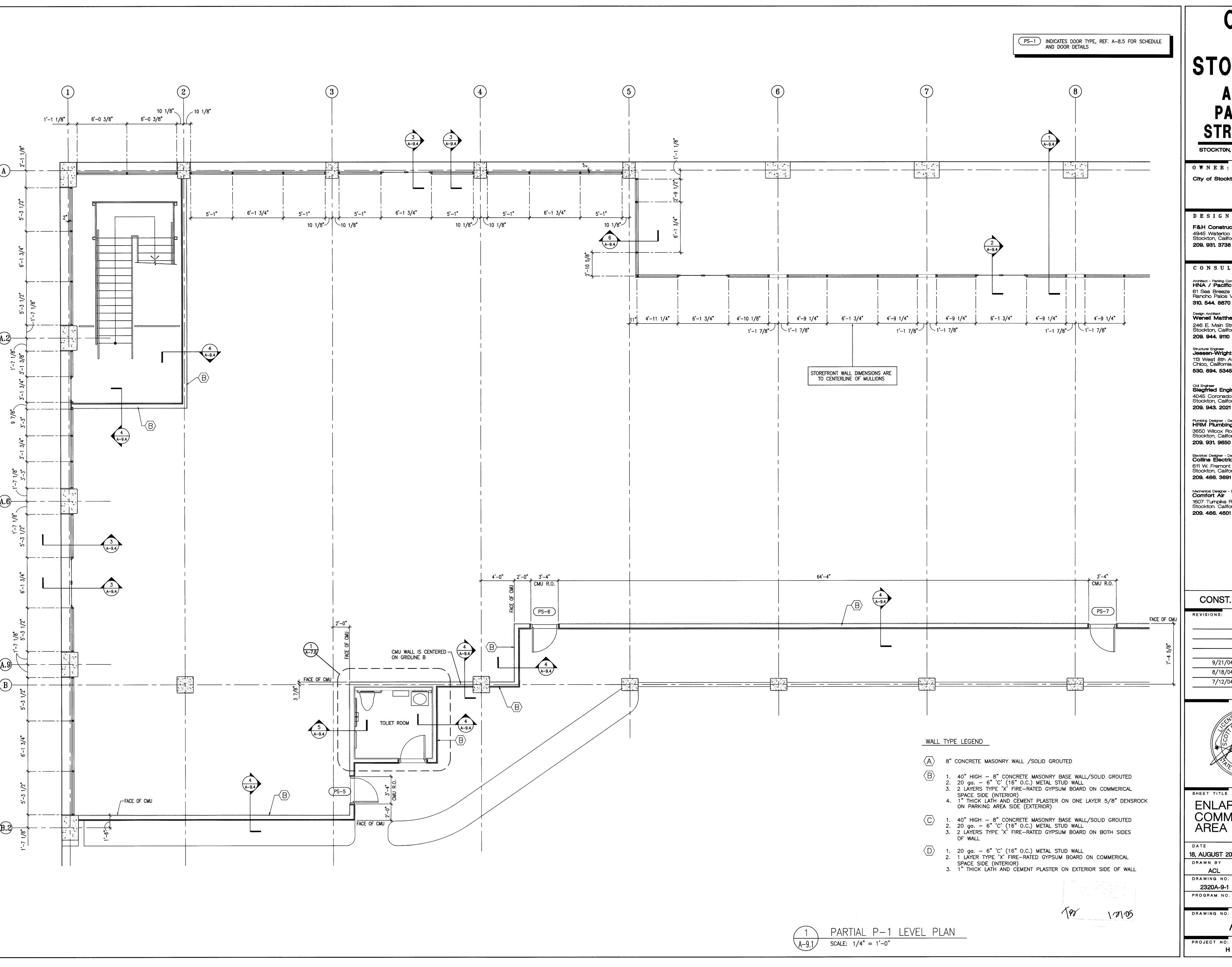
SHEET TITLE

SCREEN WALL DETAILS

DATE	SCALE
12, JULY 2004	AS NOTED
DRAWN BY	CHECKED BY
WMB	SBH
DRAWING NO.	SHEET
2320A-8-8	
PROGRAM NO.	R-NO.
l l	i e

DRAWING NO:

A-8.8



> STOCKTON, **CALIFORNIA**

City of Stockton

DESIGN BUILDER:

F&H Construction 4945 Waterloo Road Stockton, California 95215 209. 931. 3738

CONSULTANTS:

Architect - Parking Consultant
HNA / Pacific 61 Sea Breeze Avenue Rancho Palos Verdes, California 90275 310. 544. 8670

Design Architect
Wenell Mattheis Bowe 246 E. Main Street Stockton, California 95202

209. 944. 9110

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113 West 8th Avenue, Suite A

Chico, California 95926 530. 894. 5345

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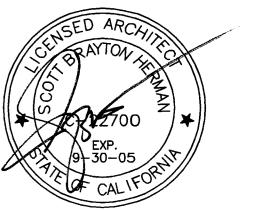
1607 Turnpike Road Stockton, California 95201 209. 466. 4601

CONST. DOCUMENTS

REVISIONS:

9/21/04 PERMIT SET 8/18/04 PLANCHECK SET

7/12/04 FOUNDATION ONLY SET



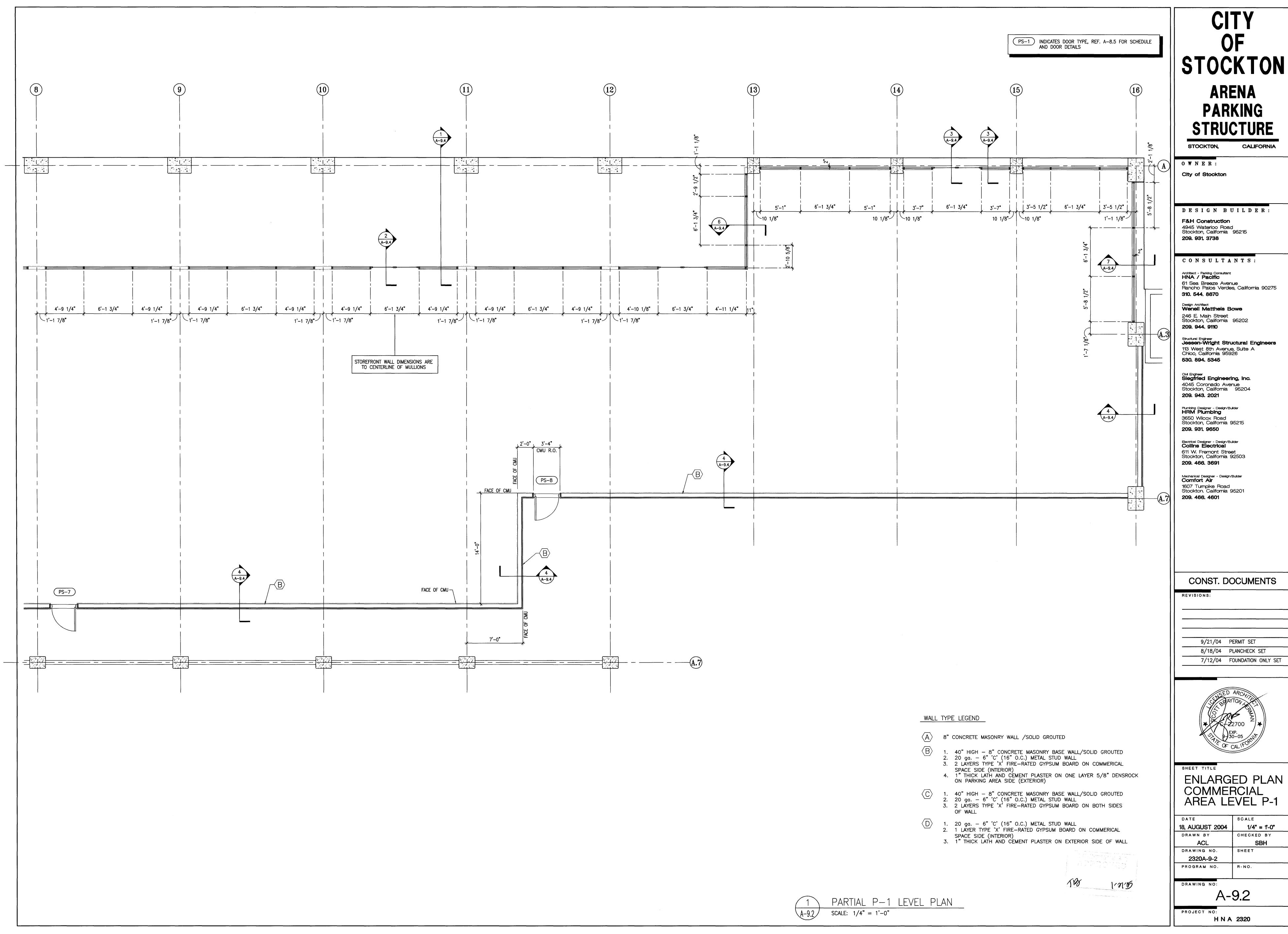
SHEET TITLE

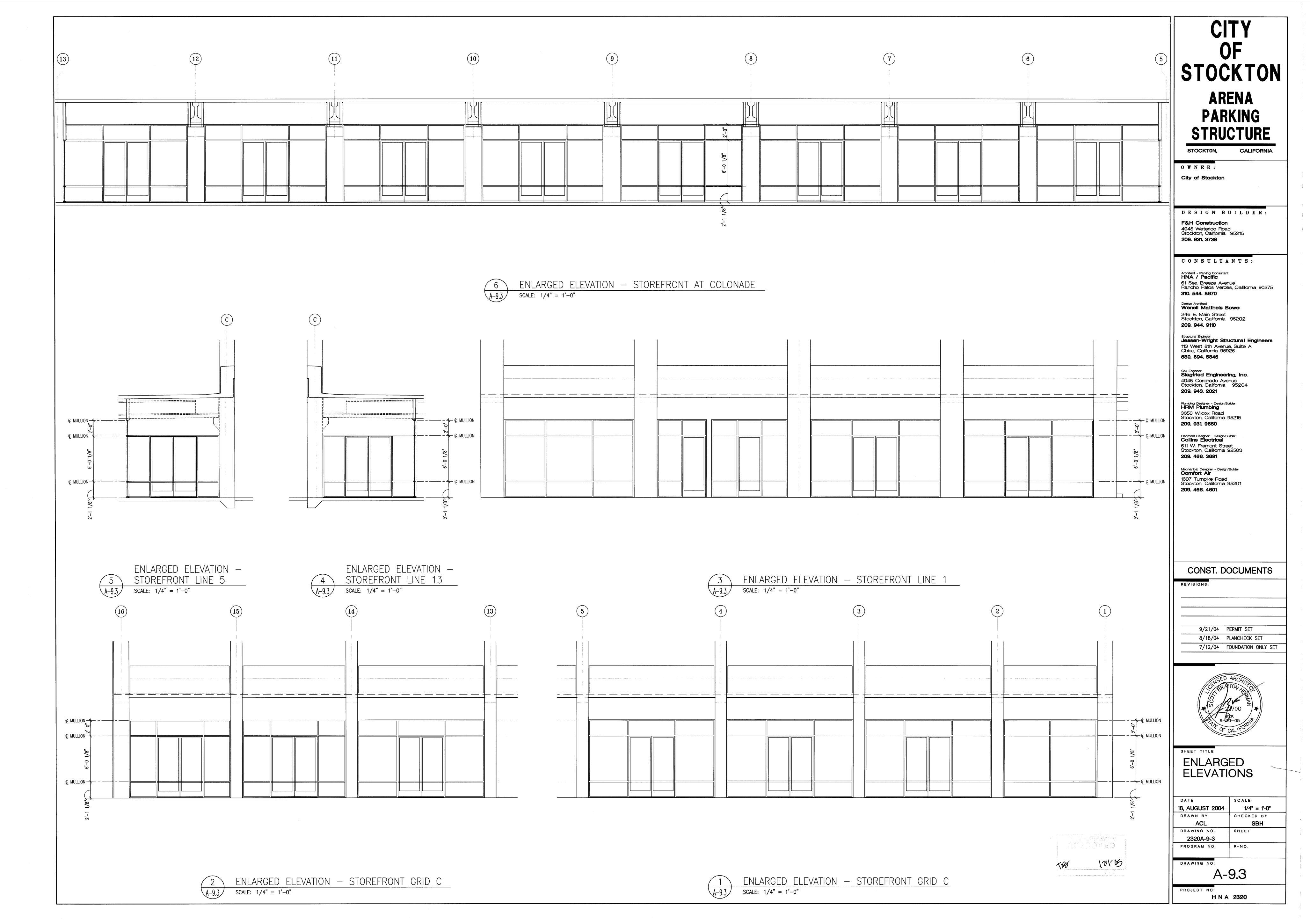
ENLARGED PLAN COMMERCIAL AREA LEVEL P-1

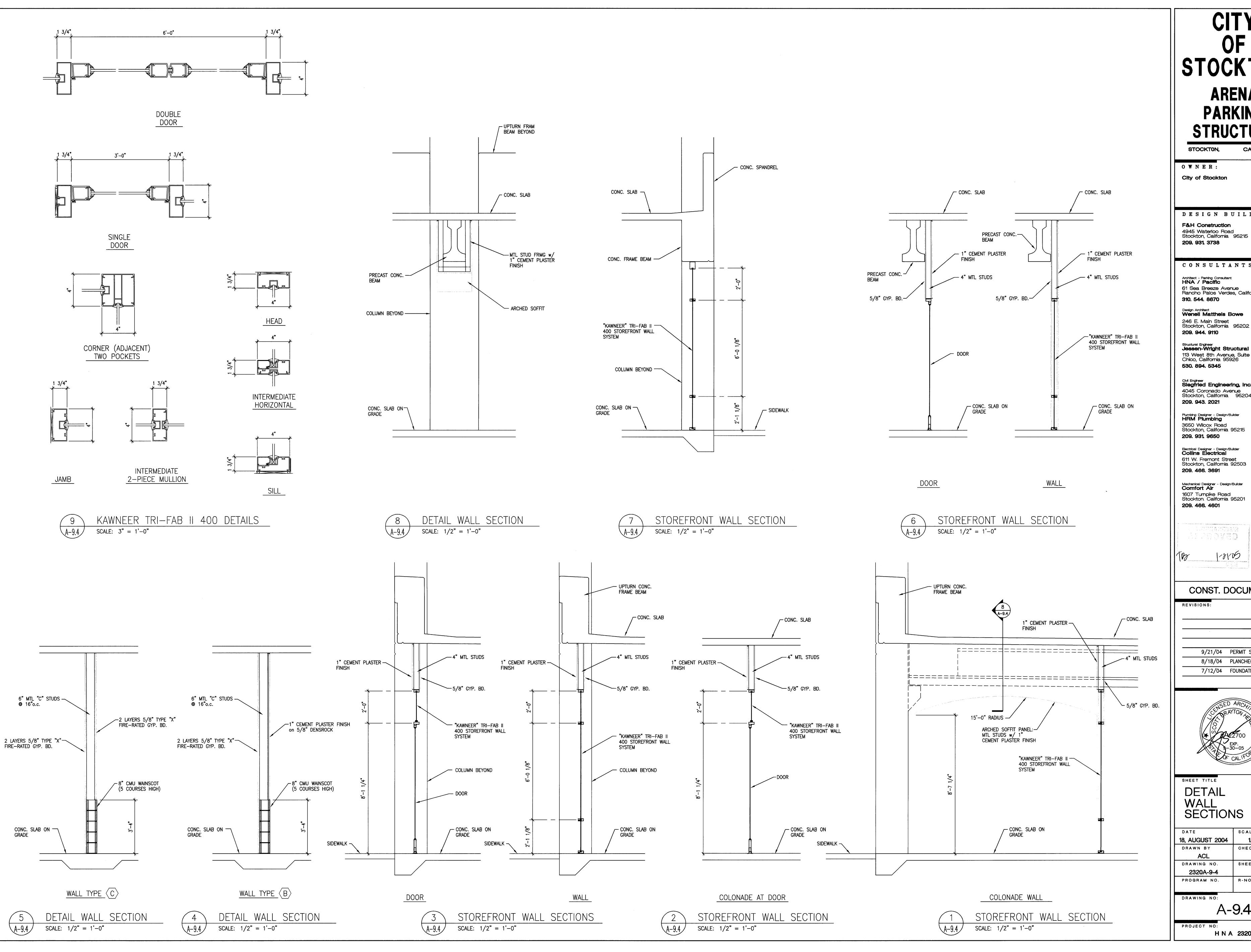
DATE	SCALE				
18, AUGUST 2004	1/4" = 1'-0"				
DRAWN BY	CHECKED BY				
ACL	SBH				
DRAWING NO.	SHEET				
2320A-9-1					
PROGRAM NO.	R-NO.				

A-9.1

H N A 2320







STOCKTON **ARENA PARKING**

STOCKTON, CALIFORNIA

OWNER:

City of Stockton

DESIGN BUILDER: F&H Construction

CONSULTANTS:

61 Sea Breeze Avenue Rancho Palos Verdes, California 90275 310. 544. 8670

Design Architect
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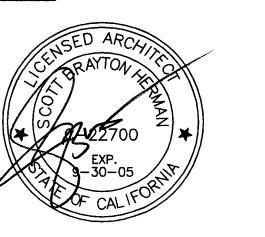
Mechanical Designer - Design/Builder Comfort Alr 1607 Turnpike Road Stockton, California 95201

CONST. DOCUMENTS

REVISIONS:

9/21/04 PERMIT SET

8/18/04 PLANCHECK SET 7/12/04 FOUNDATION ONLY SET

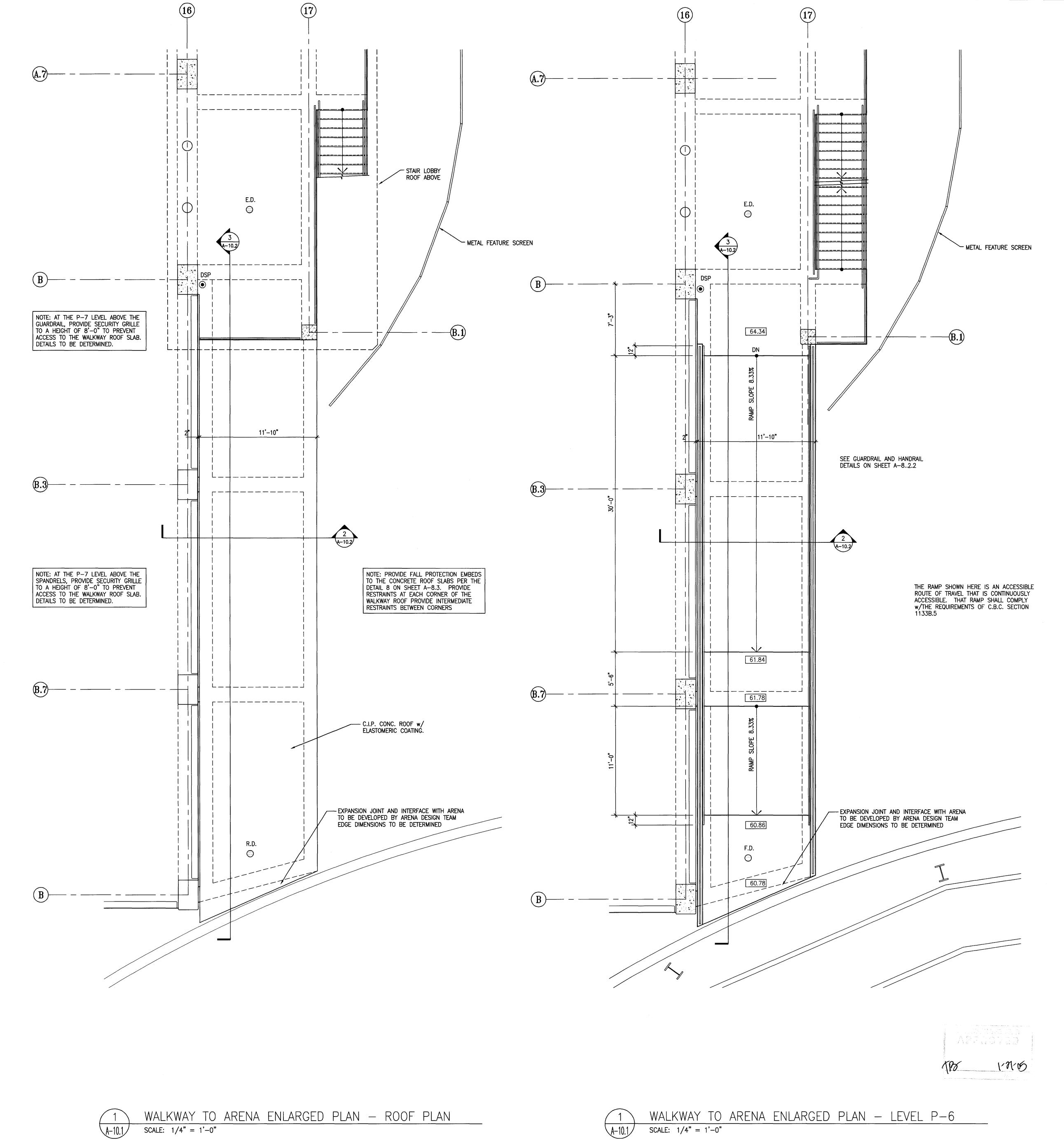


SHEET TITLE DETAIL WALL SECTIONS

SCALE 18, AUGUST 2004 $1/2^* = 1'-0^*$ CHECKED BY DRAWN BY ACL DRAWING NO. 2320A-9-4 PROGRAM NO.

DRAWING NO:

A-9.4



STOCKTON **ARENA PARKING**

STOCKTON, CALIFORNIA

OWNER:

City of Stockton

DESIGN BUILDER:

F&H Construction 4945 Waterloo Road Stockton, California 95215 209. 931. 3738

CONSULTANTS:

Architect - Parking Consultant
HNA / Pacific 61 Sea Breeze Avenue Rancho Palos Verdes, California 90275 310. 544. 8670

Design Architect

Wenell Matthels Bowe 246 E. Main Street Stockton, California 95202 209. 944. 9110

Structural Engineer
Jessen-Wright Structural Engineers 113 West 8th Avenue, Suite A Chico, California 95926 530. 894. 5345

CM Engineer
Siegfried Engineering, Inc. Stockton, California 95204 209. 943. 2021

3650 Wilcox Road Stockton, California 95215 209. 931. 9650

Plumbing Designer - Design/Builder **HRM Plumbing**

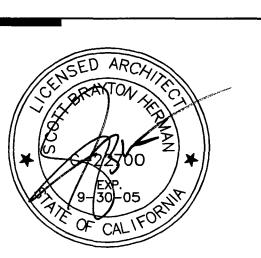
611 W. Fremont Street Stockton, California 92503 209. 466. 3691

Mechanical Designer - Design/Builder Comfort Air 1607 Turnpike Road Stockton. California 95201 209. 466. 4601

CONST. DOCUMENTS

REVISIONS:

9/21/04 PERMIT SET 8/18/04 PLANCHECK SET 7/12/04 FOUNDATION ONLY SET



SHEET TITLE WALKWAY AND WALKWAY ROOF ENLARGED PLANS

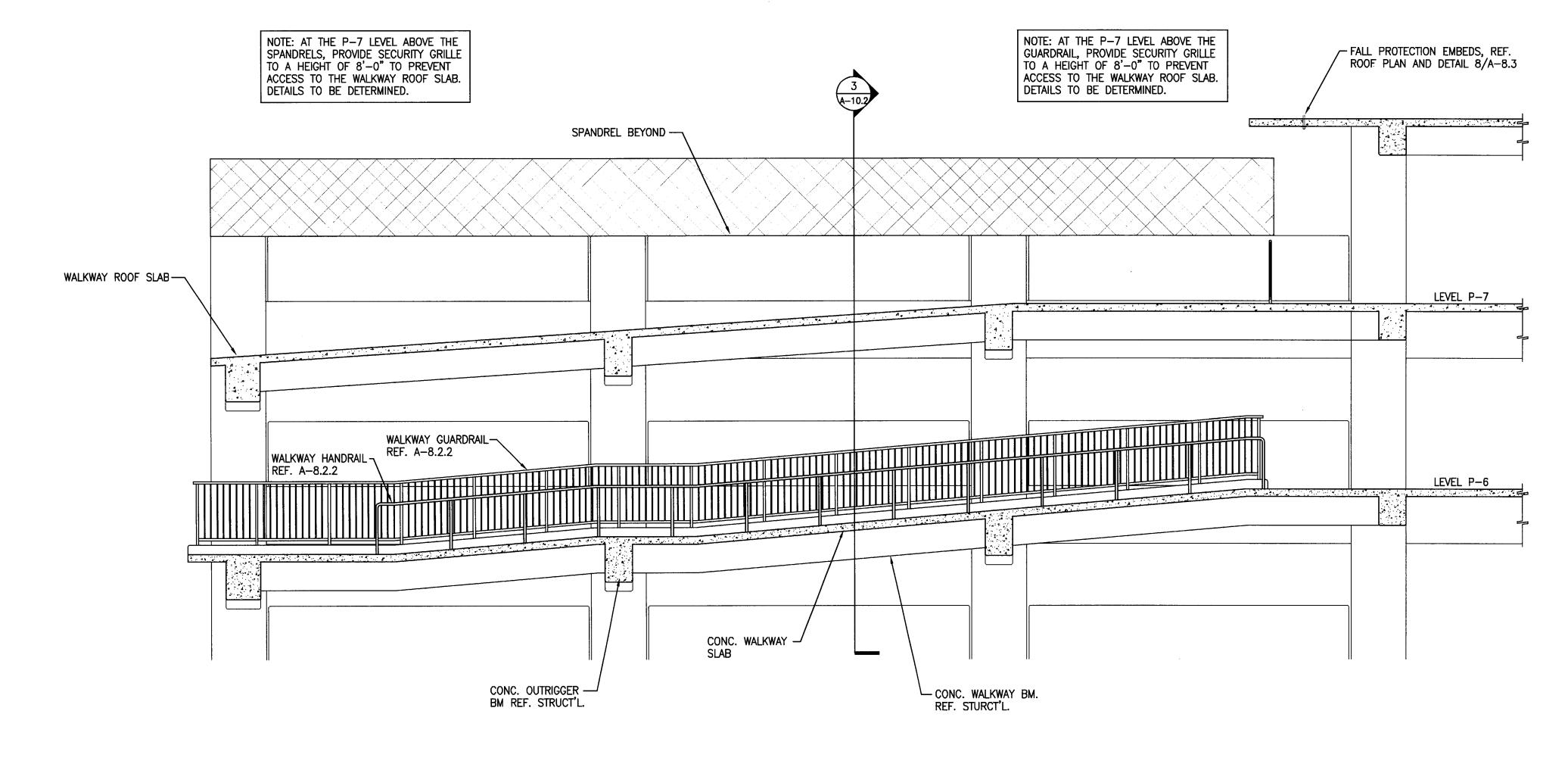
SCALE 18, AUGUST 2004 1/4" = 1'-0" CHECKED BY DRAWN BY DRAWING NO. A-10.1 PROGRAM NO.

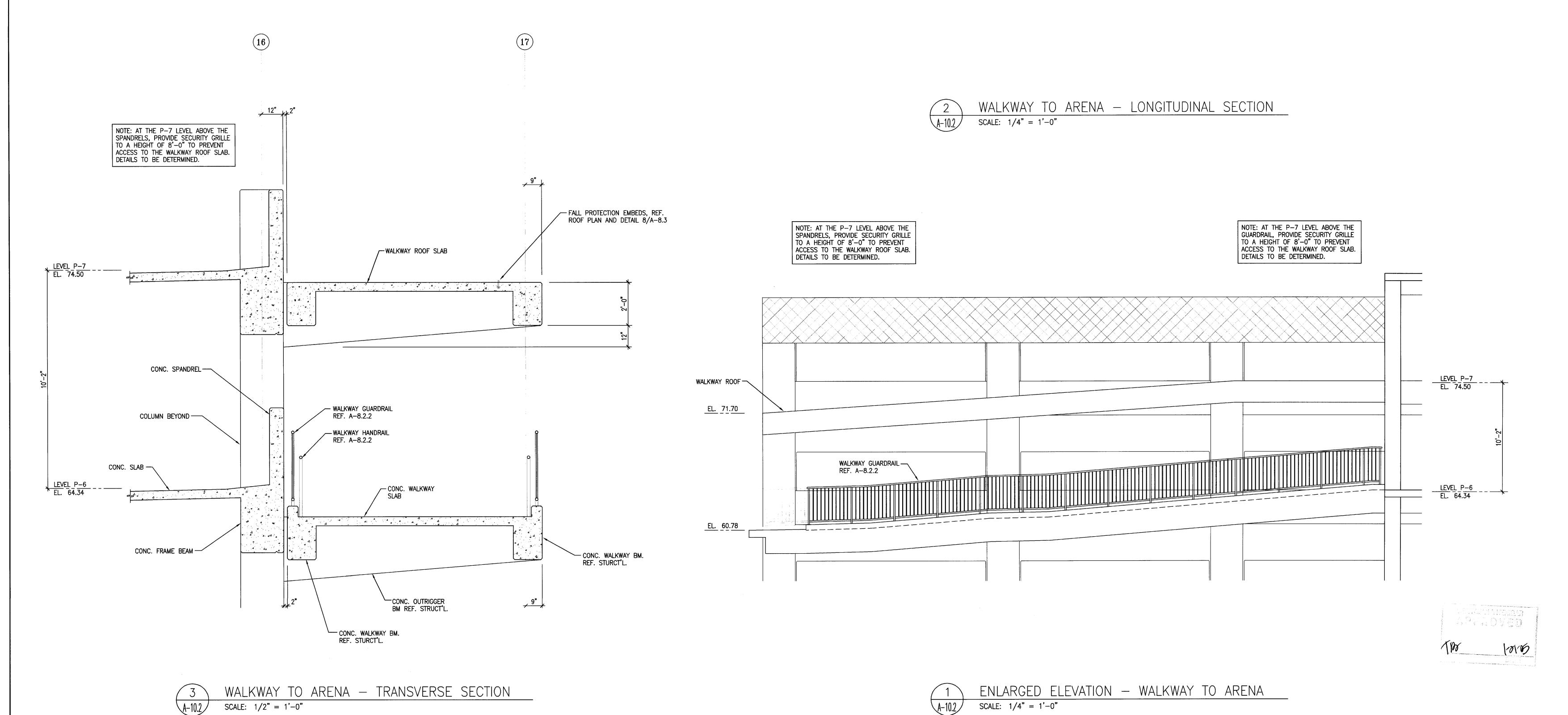
H N A 2320

DRAWING NO:

A-10.1 PROJECT NO:

WALKWAY TO ARENA ENLARGED PLAN - ROOF PLAN SCALE: 1/4" = 1'-0"





STOCKTON, CALIFORNIA

0 W N E R :
City of Stockton

DESIGN BUILDER:

F&H Construction 4945 Waterloo Road Stockton, California 95215 209. 931. 3738

CONSULTANTS:

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CMI Engineer
Siegfried Engineering, Inc.
4045 Coronado Avenue
Stockton, California 95204
209. 943. 2021

Plumbling Designer - Design/Builder HRM Plumbling
3650 Wilcox Road
Stockton, California 95215
209. 931. 9650

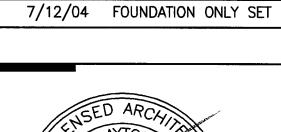
Electrical Designer - Design/Builder
Collins Electrical
611 W. Fremont Street
Stockton, California 92503
209. 466. 3691

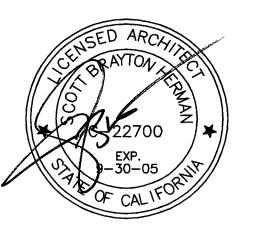
Mechanical Designer - Design/Builder **Comfort Air** 1607 Turnpike Road Stockton. California 95201 **209. 466. 4601**

CONST. DOCUMENTS

REVISIONS:

9/21/04 PERMIT SET 8/18/04 PLANCHECK SET



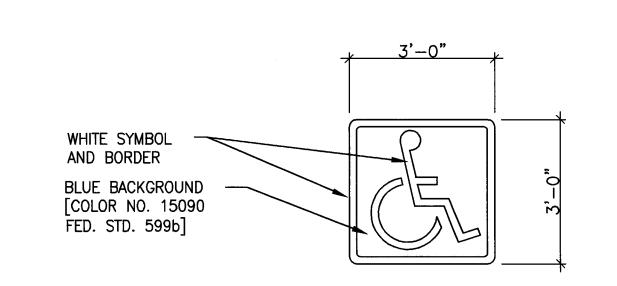


WALKWAY
ELEVATIONS
& SECTIONS

DATE	SCALE
18, AUGUST 2004	1/4" = 1'-0"
DRAWN BY	CHECKED BY
ACL	SBH
DRAWING NO.	SHEET
2320A-10-2	
PROGRAM NO.	R-NO.

DRAWING NO:

A-10.2



SECTION

PLAN

DRAINAGE OPENING

ELEVATION

ONE IN EVERY EIGHT ACCESSIBLE SPACES, BUT NOT LESS THAN ONE, SHALL BE SERVED BY AN ACCESS AISLE 96"

SURFACE SLOPES OF ACCESSIBLE PARKING SPACES SHALL BE THE MINIMUM POSSIBLE AND SHALL NOT EXCEED 1

ALL ENTRANCES TO AND VERTICAL CLEARANCES WITHIN PARKING STRUCTURES SHALL HAVE A MINIMUM VERTICAL

SHALL BE CLEAR OF ALL OBSTRUCTIONS, INCLUDING BEAMS, SPRINKLER HEADS, WATER AND SEWER PIPING. 5. IN EACH PARKING AREA BUMPER OR CURB SHALL BE PROVIDED AND LOCATED TO PREVENT ENCROACHMENT OF CARS

WIDE MINIMUM AND SHALL BE DESIGNATED VAN ACCESSIBLE. ALL SUCH SPACES MAY BE GROUPED ON ONE LEVEL

UNIT VERTICAL TO 50 UNITS HORIZONTAL IN ANY DIRECTION. THIS SHALL APPLY TO THE LOADING AISLES AS WELL.

CLEARANCE OF 8'-2" WHERE REQUIRED FOR ACCESSIBILITY TO ACCESSIBLE PARKING SPACES. THE VERTICAL CLEARANCE

PEDESTRIAN WAYS WHICH ARE ACCESSIBLE TO PEOPLE WITH DISABILITIES SHALL BE PROVIDED FROM EACH SUCH PARKING

ACCESSIBLE PARKING SPACES SHALL BE SO LOCATED THAT PERSONS WITH DISABILITIES ARE NOT COMPELLED TO WHEEL

EACH PARKING SPACE RESERVED FOR PERSONS WITH DISABILITIES SHALL BE IDENTIFIED BY A REFLECTORIZED SIGN

SPACE AT A MINIMUM HEIGHT OF 36" FROM THE PARKING SPACE FINISHED GRADE, GROUND OR SIDEWALK.

RAMPS SHALL NOT ENCROACH INTO ANY PARKING SPACE, WITH THE EXCEPTION OF A TRANSITION RAMP FROM A LOADING/ UNLOADING AREA TO AN ADJACENT SIDEWALK. THE TRANSITION RAMP SHALL BE A MINIMUM OF 48" IN WIDTH, A MAXIMUM

PERMANENTLY POSTED IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL OR SPACE, CONSISTING OF A PROFILE

THAN 70 SQUARE INCHES IN AREA AND, WHEN IN A PATH OF TRAVEL, SHALL BE POSTED AT A MINIMUM HEIGHT OF 80"

OF ACCESSIBILITY AND POSTED AT A MINIMUM HEIGHT OF 80" FROM THE BOTTOM OF THE SIGN TO THE PARKING SPACE

A. BY OUTLINING OR PAINTING THE STALL OR SPACE IN BLUE AND OUTLINING ON THE GROUND IN THE STALL OR SPACE

VIEW SHALL BE LOCATED SO THAT IT IS VISIBLE TO A TRAFFIC ENFORCEMENT OFFICER WHEN A VEHICLE IS PROPERLY

B. BY OUTLINING A PROFILE VIEW OF A WHEELCHAIR WITH OCCUPANT IN WHITE ON BLUE BACKGROUND. THE PROFILE

IN WHITE OR SUITABLE CONTRASTING COLOR A PROFILE VIEW DEPICTING A WHEELCHAIR WITH OCCUPANT; OR

VIEW OF A WHEELCHAIR WITH OCCUPANT IN WHITE OR DARK BLUE BACKGROUND. THE SIGN SHALL NOT BE SMALLER

SCALE: 3/4" = 1'-0"

STALL PAINT STRIPE

SURFACE PAINTED SYMBOL



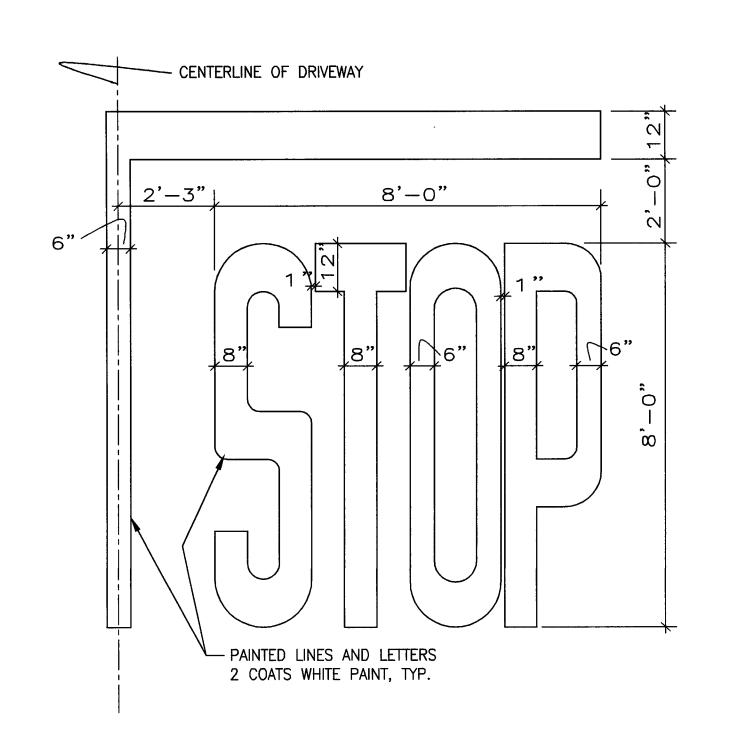
ON PLANS

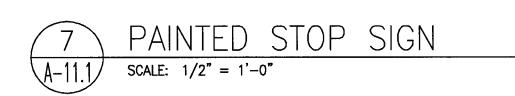
THIS DIMENSION POINT 3'-0" FROM

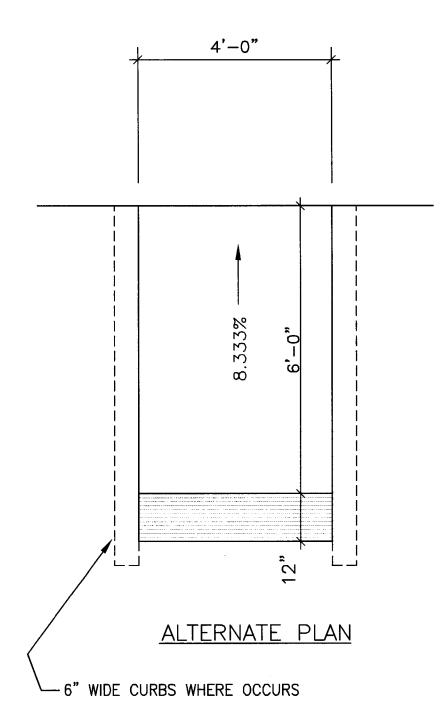
- PRECAST CONCRETE WHEEL STOP

- EPOXY TO FLOOR SLAB

| WALL OR COLUMN UNLESS INDICATED





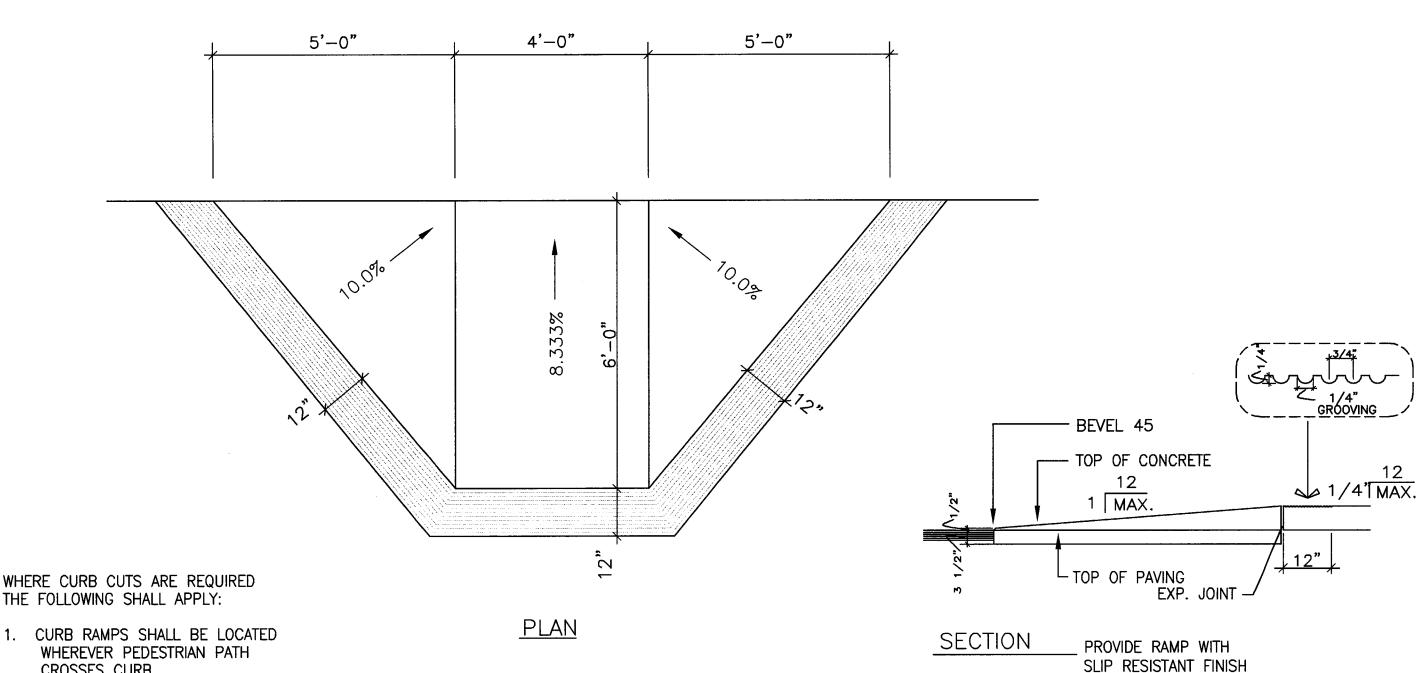


THE FOLLOWING SHALL APPLY: 1. CURB RAMPS SHALL BE LOCATED WHEREVER PEDESTRIAN PATH CROSSES CURB. 2. CURB RAMP SHALL BE 48" MIN. WIDTH WITH MAX. SLOPE OF 1 IN 12.

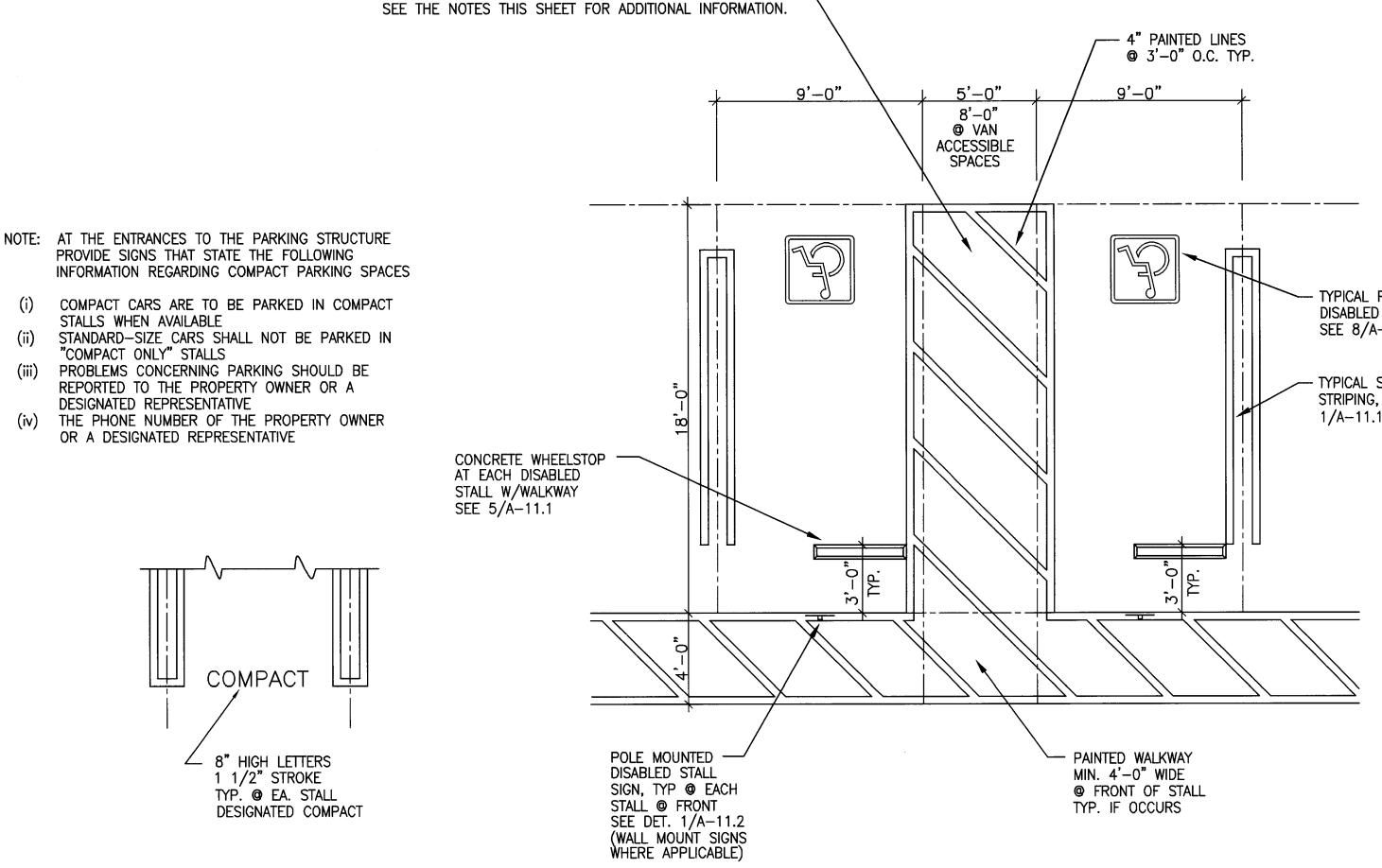
3. A LEVEL 48" MIN. DEPTH LANDING

IS REQUIRED AT TOP OF CURB RAMPS OVER ENTIRE CURB WIDTH. 4. WHEN THE SLOPE OF A CURB RAMP IS LESS THAN 1:15 GRADIENT (6.67%) IT SHALL HAVE A TRUCATED DOME DECTECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND DEPTH OF THE CURB RAMP INSIDE THE GROOVED BORDER

THE WORDS "NO PARKING" SHALL BE PAINTED -ON THE GROUND IN WHITE 12" HIGH LETTERS



DISABLED RAMP SCALE: 1/2" = 1'-0"



10. VAN ACCESSIBLE PARKING SPACE SHALL HAVE AN ADDITIONAL SIGN STATING "VAN ACCESSIBLE" MOUNTED BELOW THE SYMBOL 11. SIGNS TO IDENTIFY ACCESSIBLE PARKING SPACES MAY BE CENTERED ON THE WALL AT THE INTERIOR END OF THE PARKING 12. THE SURFACE OF EACH ACCESSIBLE PARKING SPACE OR STALL SHALL HAVE A SURFACE IDENTIFICATION DUPLICATING EITHER 13. THE WORDS "NO PARKING" SHALL BE PAINTED ON THE GROUND WITHIN THE FIVE-FOOT LOADING AND UNLOADING AISLE. TYPICAL PAINTED DISABLED SYMBOL SEE 8/A-11.1 - TYPICAL STALL STRIPING, SEE 1/A-11.1 FACE COLUMN OR FACE WALL [SEE PLAN]

THIS NOTICE SHALL BE PAINTED IN WHITE LETTERS NOT LESS THAN 12" INCHES HIGH AND LOCATED SO THAT IT IS VISIBLE TO TRAFFIC ENFORCEMENT OFFICIALS. STALL WIDTH STALL WIDTH 4" WIDE PAINT STRIPE TYPICAL [YELLOW AS AS REQUIRED] FACE COLUMN OR FACE WALL [SEE PLAN] STANDARD

90° COMPACT

DISABLED PARKING NOTES

OF A PARKING STRUCTURE.

OVER THE REQUIRED WIDTH OF WALKWAYS.

EITHER OF THE FOLLOWING SCHEMES:

1. THE MINIMUM LENGTH OF AN ACCESSIBLE PARKING SPACE SHALL BE 18'-0".

SPACE TO RELATED FACILITIES, INCLUDING CURB CUTS AS NEEDED.

FROM THE BOTTOM OF THE SIGN TO THE PARKING SPACE FINISHED GRADE.

PARKED IN THE SPACE AND SHALL BE 36" HIGH BY 36" WIDE.

OR WALK BEHIND PARKED CARS OTHER THAN THEIR OWN.

OF 60" IN LENGTH, WITH A MAXIMUM SLOPE OF 1:12.

TYPICAL STALL STRIPING A-11.1 SCALE: 1/4" = 1'-0"

STOCKTON **ARENA PARKING** STRUCTURE

> CALIFORNIA STOCKTON,

OWNER: City of Stockton

DESIGN BUILDER:

F&H Construction 4945 Waterloo Road Stockton, California 95215 209. 931. 3738

CONSULTANTS:

Architect - Parking Consultant HNA / Pacific 61 Sea Breeze Avenue Rancho Palos Verdes, California 90275 310. 544. 8670

Design Architect

Wenell Mattheis Bowe 246 E. Main Street Stockton, California 95202

209. 944. 9110

530. 894. 5345

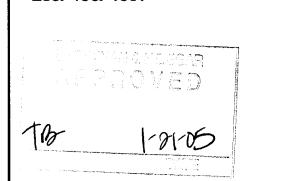
Structural Engineer
Jessen-Wright Structural Engineers 113 West 8th Avenue, Suite A Chico, California 95926

CM Engineer
Siegfried Engineering, Inc. 4045 Coronado Avenue Stockton, California 95204 209. 943. 2021

Plumbing Designer - Design/Builder **HRM Plumbing** 3650 Wilcox Road Stockton, California 95215 209. 931. 9650

Electrical Designer - Design/Builder
Collins Electrical 611 W. Fremont Street Stockton, California 92503 209. 466. 3691

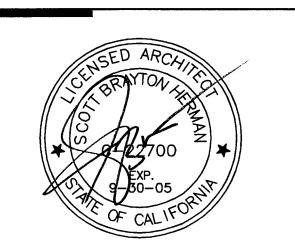
1607 Turnpike Road Stockton California 95201 209. 466. 4601



CONST. DOCUMENTS

REVISIONS:

9/21/04 PERMIT SET 8/18/04 PLANCHECK SET 7/12/04 FOUNDATION ONLY SET

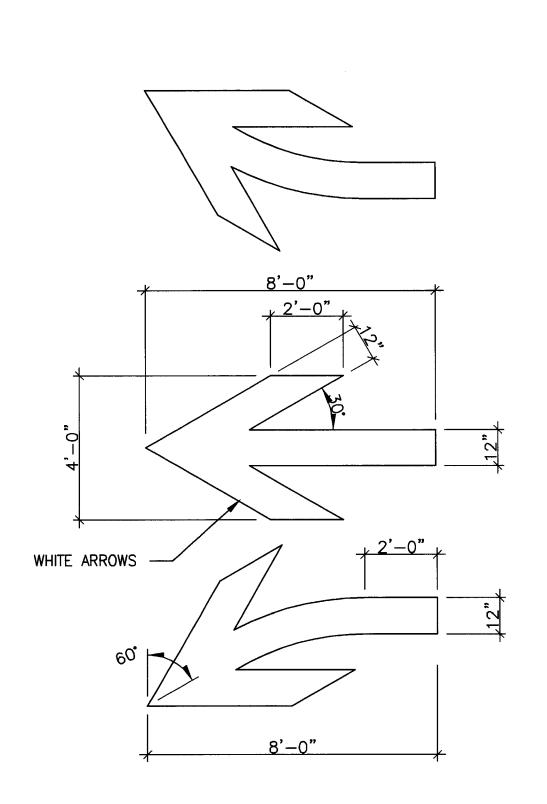


SHEET TITLE **TYPICAL** STRIPING DETAILS

1	DATE	SCALE
	12, JULY 2004	AS NOTED
	DRAWN BY	CHECKED BY
	SBH	SBH
	DRAWING NO.	SHEET
	2320A-11-1	
	PROGRAM NO.	R-NO.
1		

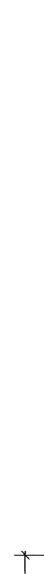
DRAWING NO:

A-11.1











2'-0"

3'-0" HIGH PAINTED BAND COLUMN -FOUR SIDES OF EACH INTERIOR COLUMN, (INSIDE FACE EXT. COL.) [BAND TO BE 2'-0" AT LEVEL P-7]

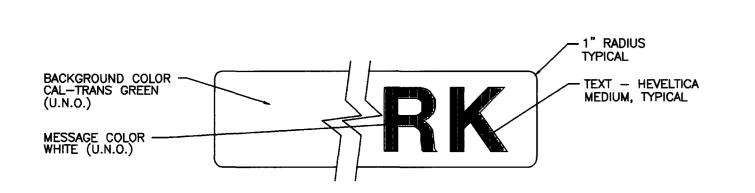
EACH LEVEL TO BE DIFFERENT COLOR

ONE CHARACTER SYMBOL FOR LEVEL

DESIGNATION TO BE ON ONE SIDE OF
COLUMN, TYP. (U.N.O.)
MESSAGE TO BE WHITE

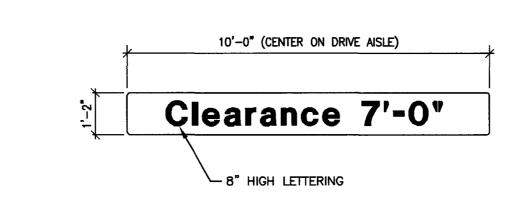
LEVEL P-1 (NOT NEEDED)
LEVEL P-2 TO BE GREEN
LEVEL P-3 TO BE RED
LEVEL P-4 TO BE ORANGE
LEVEL P-5 TO BE BLUE
LEVEL P-6 TO BE MAGENTA
LEVEL P-7 TO BE PURPLE

STENCIL PAINTED COLUMN SIGNS A-11.2 SCALE: 1" = 1'-0"

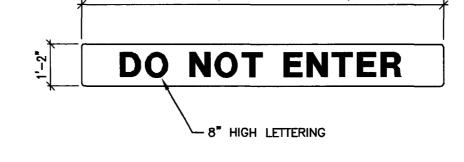


TYPICAL SIGN DETAILING A-11.2 SCALE: 1" = 1'-0"

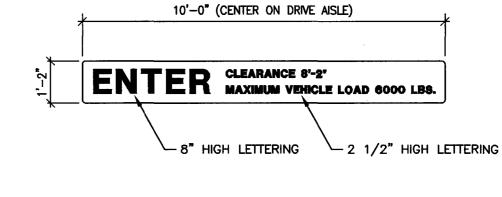
INFORMATIONAL SIGN SCHEDULE A-11.2 SCALE: NONE



(S-3) LOCATE SIGN AT BARRIER BEAM AT BOTTOM OF RAMP AT P-2 TO UPPER LEVELS



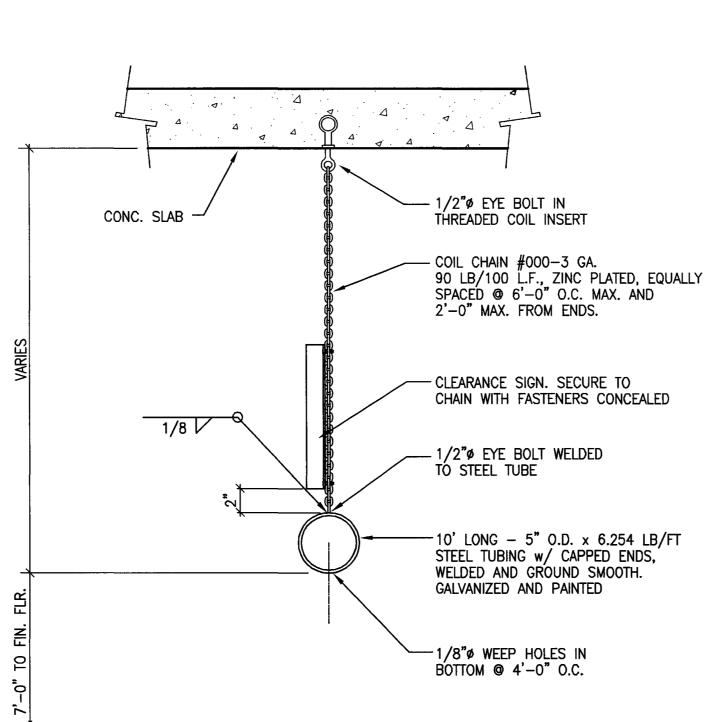
10'-0" (CENTER ON DRIVE AISLE)



LOCATE SIGN AT BARRIER BEAM AT ENTRANCE LANES

DIRECTIONAL SIGN MESSAGES SCALE: 3/8" = 1'-0"

LOCATE SIGN AT BARRIER BEAM AT EXIT LANES



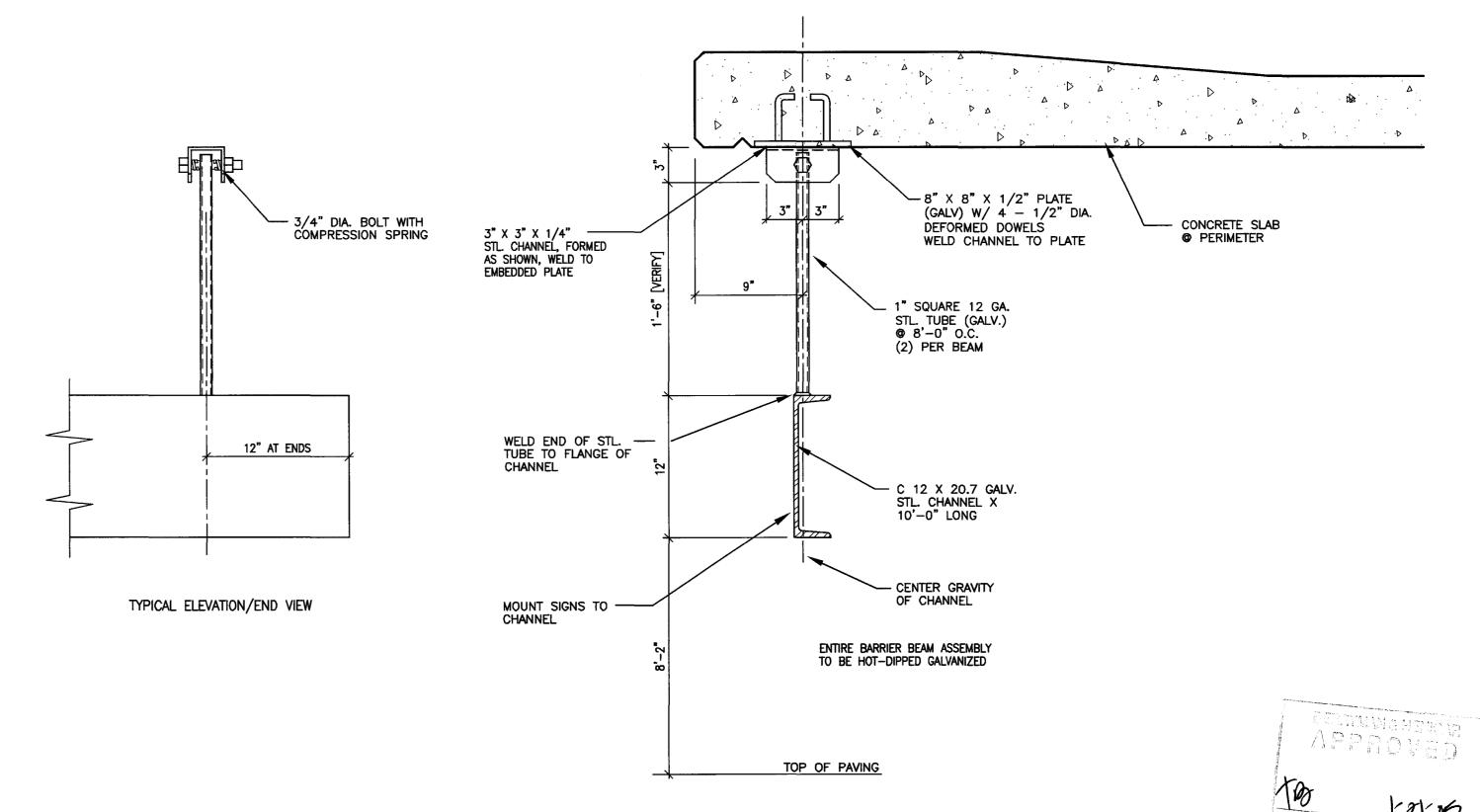
CLEARANCE BARRIER DETAIL SCALE: $1 \frac{1}{2} = 1'-0"$

PROVIDE THE FOLLOWING SIGNS FOR THE PROJECT: (NOT SHOWN ON PLANS)

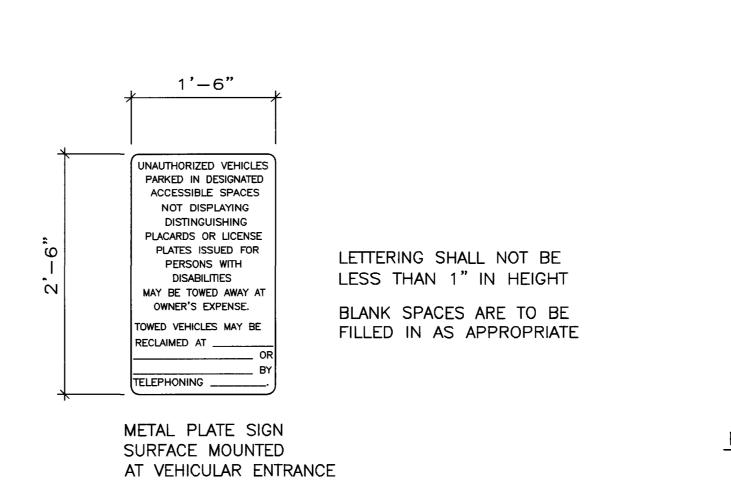
- 1. AT EACH ELEVATOR LANDING PROVIDE A SIGN WITH VERBAL AS WELL AS GRAPHIC SYMBOLIZATION THAT STATES; "IN CASE OF FIRE - DO NOT USE ELEVATORS - USE STAIRS"
- 2. AT ELECTRICAL ROOM PROVIDE SIGNAGE STATING;
- "ELECTRICAL ROOM"
- 3. AT ELEVATOR MACHINE ROOM PROVIDE SIGNAGE STATING; "ELEVATOR MACHINE ROOM"

SEE SHEET A-11.1 FOR SURFACE PAINTED GRAPHICS AND STRIPING DETAILS

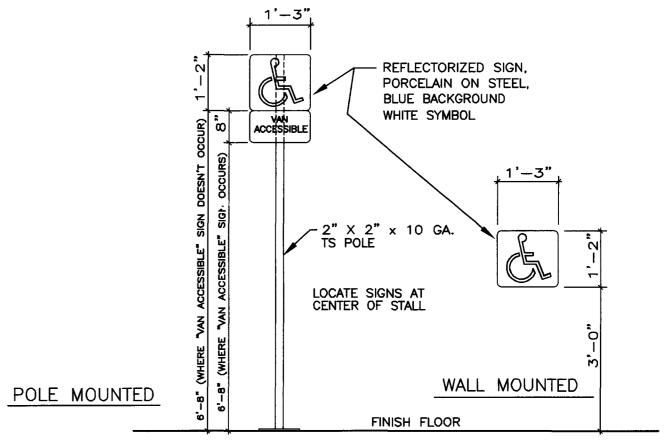




BARRIER BEAM @ ENTRANCES A-11.2 SCALE: 1 1/2" = 1'-0"



DISABLED STALL SIGNS A-11.2 SCALE: 1" = 1'-0"



DISABLED STALL SIGNS A-11.2 SCALE: 1/2" = 1'-0"

ARENA PARKING STRUCTURE

STOCKTON, **CALIFORNIA**

OWNER:

City of Stockton

DESIGN BUILDER:

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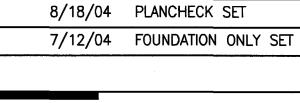
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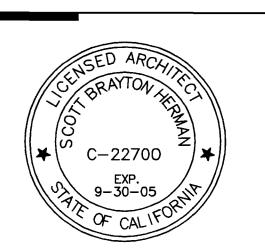
Mechanical Designer - Design/Bullder Comfort Air 1607 Turnpike Road Stockton. California 95201 209. 466. 4601

CONST. DOCUMENTS

REVISIONS:

9/21/04 PERMIT SET





SHEET TITLE **TYPICAL** SIGNAGE DETAILS

SCALE DATE 12, JULY 2004 AS NOTED DRAWN BY CHECKED BY SBH SBH SHEET DRAWING NO. 2320A-11-2

R-NO.

DRAWING NO:

PROGRAM NO.

A-11.2

1-2 STRUCTURAL OBSERVATION: STRUCTURAL OBSERVATION IS REQUIRED FOR THE STRUCTURAL SYSTEM IN ACCORDANCE WITH CBC SECTION 1702. STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE ELEMENTS AND CONNECTIONS OF THE STRUCTURAL SYSTEM AT SIGNIFICANT CONSTRUCTION STAGES AND THE COMPLETED STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS. STRUCTURAL OBSERVATION DOES NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED BY THE BUILDING INSPECTOR OR THE DEPUTY INSPECTOR.

A FINAL OBSERVATION REPORT MUST BE SUBMITTED SHOWING THAT ALL OBSERVED DEFICIENCIES WERE RESOLVED AND THE STRUCTURAL SYSTEM GENERALLY CONFORMS WITH THE APPROVED PLANS AND SPECIFICATIONS. THE DEPARTMENT OF BUILDING AND SAFETY WILL NOT ACCEPT THE STRUCTURAL WORK WITHOUT THIS FINAL OBSERVATION REPORT AND THE CORRECTION OF THE SPECIFIC DEFICIENCIES NOTED DURING NORMAL BUILDING AND DEPUTY INSPECTION.

1-3 SPECIAL INSPECTION: FULL-TIME SPECIAL INSPECTION PER SECTION 1701 OF THE CBC SHALL BE PROVIDED FOR THE FOLLOWING TYPES OF CONSTRUCTION: CONCRETE REINFORCING STEEL

PRESTRESSING TENDONS CONCRETE BOLTS, EMBEDS, AND DRILLED ANCHORS WELDING OF STRUCTURAL OR REINFORCING STEEL STRUCTURAL MASONRY SPECIAL GRADING, EXCAVATING, AND FILLING PILE DRIVING

THE SPECIAL INSPECTOR SHALL BE ACCEPTABLE TO THE STRUCTURAL ENGINEER AND BUILDING DEPARTMENT, SHALL BE ICBO QUALIFIED, AND THEIR EXPERIENCE SHALL BE COMMENSURATE WITH THIS TYPE OF PROJECT,

1-4 CONTRACTOR COORDINATION/VERIFICATION: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND JOB SITE CONDITIONS. ANY DISCREPANCIES WITH THE SITE OR ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO CONSTRUCTION.

IF A PARTICULAR FEATURE OF CONSTRUCTION IS NOT FULLY SHOWN ON THE DRAWINGS OR IN THE SPECIFICATIONS. THEN IT SHALL BE CONSTRUCTED IN THE SAME CHARACTER AS SIMILAR CONDITIONS THAT ARE SHOWN IN THE DESIGN DOCUMENTS, AND SHALL BE REVIEWED BY THE ARCHITECT.

CONDITIONS NOTED IN THE DRAWINGS AS "EXISTING" SHALL BE FIELD VERIFIED BY THE CONTRACTOR. IF THERE ARE DISCREPANCIES, THE CONTRACTOR SHALL CONDITIONS NOTED IN IMMEDIATELY NOTIFY THE ENGINEER AND NOT PROCEED WITH CONSTRUCTION UNTIL FURTHER DIRECTION IS PROVIDED.

1-5 CONSTRUCTION METHODS: THE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND, UNLESS SPECIFICALLY NOTED OTHERWISE, DO NOT SHOW THE METHOD OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE METHOD OF CONSTRUCTION, AND SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE PUBLIC.

1-6 OPENINGS IN STRUCTURAL ELEMENTS: OPENINGS, POCKETS, ETC. SHALL NOT BE PLACED IN SLABS, BEAMS, COLUMNS, WALLS, FOOTINGS, ETC., UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS.

THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THE SIZES AND LOCATIONS OF ALL OPENINGS, POCKETS, ETC. TO BE DRILLED, CORED OR CUT IN SLABS, BEAMS, COLUMNS, WALLS, FOOTINGS, ETC. PRIOR TO INSTALLATION. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO AVOID DAMAGING CONCRETE OR MASONRY REINFORCEMENT.

1-7 DESIGN CRITERIA: THE STRUCTURE HAS BEEN DESIGNED FOR THE FOLLOWING CRITERIA:

> SEISMIC ZONE: 3 SEISMIC FACTORS: R=8.5 SOIL PROFILE TYPE: Sd WIND SPEED: 70 MPH WIND EXPOSURE: B

PARKING LEVELS50 PSF REDUCIBLE

1-8 TYPICAL DETAILS: SEE SHEETS S3.0, S4.1, S4.2, S4.3, S4.4, & S4.5.

1-9 THESE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE STRUCTURAL SPECIFICATIONS FOR THIS PROJECT. IF THERE ARE ANY DISCREPANCIES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE STRUCTURAL ENGINEER AND NOT PROCEED WITH CONSTRUCTION UNTIL FURTHER DIRECTION OR CLARIFICATION IS PROVIDED BY THE STRUCTURAL ENGINEER.

SECTION 2: FOUNDATIONS

LIVE LOADS:

2-1 GEOTECHNICAL REPORT: FOUNDATIONS BASED ON RECOMMENDATIONS IN THE FOLLOWING REPORT:

COMPANY: KLEINFELDER PROJECT NUMBER: 37415,G02 JULY 9, 2004

ANCHOR BOLT

ADDITIONAL

ADJACENT

ALTERNATE

ARCHITECTURA

ANCHOR

BLOCKING

BEAT TO FI

CONTROL JOINT

CAST-IN-PLACE CONCRETE

CONCRETE MASONRY UNITS

CONSTRUCTION JOINT

BETWEEN

BEAM

воттом

ADD'L

ANC

ARCH

BLKG

CLR

BOT (B)

2-2 GRADING AND SITEWORK: ALL SOILS WORK SHALL BE DONE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

2-3 GEOTECHNICAL ENGINEER'S REVIEW: THE GEOTECHNICAL ENGINEER SHALL REVIEW THE FOLLOWING WORK. AND SUBMIT TO THE ARCHITECT AND BUILDING DEPARTMENT A LETTER OF COMPLIANCE:

COL

CONT

CTR

DBA

ELEV

CONTR

CONSTRUCTION

CONTINUOUS

DIAMETER

ELEVATION (VIEW) OR ELEVATOR

DOWEL

ALL BACKFILL AND COMPACTION OPERATIONS ALL PILE DRIVING OPERATIONS

SECTION 3: CONCRETE

ASH PER NOTE 3-1,C.

3-1 MATERIALS:

A. AGGREGATES: AGGREGATE FOR NORMAL-WEIGHT CONCRETE SHALL CONFORM TO ASTM C-33. COARSE AGGREGATE SIZE SHALL BE NO. 467 (1-1/2" TO NO. 4) OR NO. 57 (1" TO NO. 4) FOR FOOTINGS AND MASS CONCRETE, AND NO. 57 OR NO. 67 (3/4" TO NO. 4) FOR ALL OTHER CONCRETE. 3/8" AGGREGATE MAY BE USED WITH THE ENGINEER'S REVIEW. AGGREGATE FOR LIGHT-WEIGHT CONCRETE SHALL CONFORM TO ASTM C-330.

AGGREGATES SHALL NOT CONTAIN MATERIAL WHICH ARE ALKALI REACTIVE AS DETERMINED BY ASTM C-227, 289 AND 295. IF TEST DATA IS UNAVAILABLE IN REGARDS TO ALKALI REACTIVE MATERIALS, PROVIDE CEMENT WITH A MAXIMUM ALKALI CONTENT LESS THAN 0.45% BY WEIGHT, OR PROVIDE FLY

B. CEMENT: CEMENT SHALL CONFORM TO ASTM C-150, TYPE II OR TYPE II-LOW ALKALI.

COARSE AGGREGATE SIZE SHALL BE NO. 57 OR NO. 67.

C. FLY ASH: FLY ASH MAY BE USED TO OFFSET CEMENT ON A 1 TO 1 BASIS (BY WEIGHT). FLY ASH SHALL CONFORM TO ASTM C-618, CLASS F. MAXIMUM LOSS ON IGNITION SHALL NOT EXCEED 3.0%. IF USED, CLASS F FLY ASH SHALL BE AT LEAST 20%, BUT NOT EXCEED 25% OF THE CEMENT PLUS FLY ASH BY WEIGHT AND SHALL CONTAIN A MAXIMUM OF 7% CALCIUM OXIDE.

D. ADMIXTURES: NO ADMIXTURE MAY CONTAIN CALCIUM CHLORIDE, OR MORE THAN 0.05% CHLORIDE IONS.

3-2 MIX DESIGNS:

A. SUBMITTALS: ALL CONCRETE MIX DESIGNS SHALL BE PREPARED BY AN ENGINEER LICENSED IN THE STATE OF CALIFORNIA, AND STAMPED & SIGNED COPIES SHALL BE SENT TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW.

COMPRESSIVE STRENGTH TESTS SHALL ALSO INCLUDE TEST RESULTS FOR SLUMP AND ENTRAINED AIR (IF SPECIFIED), AND SHALL BE SENT TO THE ENGINEER FOR REVIEW.

B. MIX REQUIREMENTS: ALL CONCRETE SHALL CONTAIN A WATER REDUCING ADMIXTURE, AND A MINIMUM OF 5 SACKS OF CEMENT PER CUBIC YARD.

ALL CONCRETE SHALL HAVE A MAXIMUM WATER TO CEMENT RATIO OF 0.45

3-3 PERFORMANCE REQUIREMENTS:

۱. M	INIMUM COMPRESSION STRENGTHS:		
	ITEM	STRENGTH (PSI)	DAYS
	ELEVATED SLABS AND BEAMS: TYPICAL:	4500	28
	PRECAST BEAMS:	PER SUPPLIER	
	COLUMNS:	5000	28
	UPTURNED GRADE BEAMS & PILECAF	PS: 4000	28
	ALL OTHER CONCRETE, UNLESS SPECIFICALLY NOTED:	3000	28

B. SLUMP: 4'' + /- 1''.

C. CONCRETE DENSITY: 150 PCF MAXIMUM

D. SHRINKAGE: SHRINKAGE AT 28 DAYS (PER ASTM C-157) SHALL NOT EXCEED 0.055% FOR DRY CURING.

E. MINIMUM CONCRETE SPLITTING TENSILE STRENGTH SHALL BE 390 PSI. 3-4 COMPRESSION TEST SAMPLES: SAMPLES SHALL BE PER CBC SECTION 1905.6. "EVALUATION AND ACCEPTANCE OF CONCRETE". EACH SAMPLE SHALL CONTAIN AT LEAST FOUR CYLINDERS, INCLUDING ONE FOR TESTING AT SEVEN DAYS AND TWO AT 28 DAYS. IF THE 28 DAY RESULTS ARE BELOW THE MINIMUM SPECIFIED 28 DAY STRENGTH, THE EXTRA CYLINDER

SHALL BE TESTED AT 56 DAYS. 3-5 CONSTRUCTION JOINTS: THE HARDENED CONCRETE SURFACE AT CONSTRUCTION JOINTS SHALL HAVE A ROUGHNESS OF 1/4" AMPLITUDE, UNLESS SPECIFICALLY NOTED.

EMBEDS AND OTHER EMBEDDED ITEMS SHALL BE SECURELY POSITIONED PRIOR TO PLACING CONCRETE. STEEL EMBEDS SHALL CONTAIN DRILLED HOLES FOR NAILS OR BOLTS FOR PLACEMENT.

3-6 EMBEDDED ITEMS: ALL REBAR, PRESTRESSING TENDONS, ANCHOR BOLTS, STEEL

3-7 CHAMFERS: ALL PROJECTING CORNERS OF BEAMS, SLABS, COLUMNS, ETC. SHALL BE FORMED WITH A 3/4" CHAMFER, UNLESS SPECIFICALLY NOTED OTHERWISE.

3-8 CONCRETE PUMP HOSES: PROVIDE INDEPENDENT SUPPORTS SO HOSES DO NOT REST ON SLAB REINFORCEMENT.

3-9 SLAB CONDUIT: UNLESS SPECIFICALLY NOTED OTHERWISE, CONDUIT OR EMBEDDED PIPE SIZE (OUTSIDE DIAMETER) SHALL NOT EXCEED 1/3 OF THE SLAB THICKNESS, AND SHALL BE LOCATED WITHIN THE CENTER 1/3 OF THE SLAB. CONDUIT AND PIPES SHALL BE SPACED AT LEAST THREE DIAMETERS ON CENTER (USE LARGEST DIAMETER).

THE ELECTRICAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WHICH CONTAIN PROPOSED CONDUIT LAYOUTS FOR THE STRUCTURAL ENGINEER'S REVIEW A MINIMUM OF TWO WEEKS PRIOR TO INSTALLATION.

SECTION 4: PRECAST CONCRETE

4-1 SUBMITTALS:

EACH SIDE

EXPANSION

FINISH FLOO

EXTERIOR

EXIST (E) EXISTING

A. BEAMS AND GIRDERS: CALCULATIONS AND SHOP DRAWINGS FOR BEAMS AND GIRDERS, STAMPED AND SIGNED BY AN ENGINEER LICENSED IN THE STATE OF CALIFORNIA, SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION.

B. SHOP DRAWINGS: SHOP DRAWINGS SHALL BE SUBMITTED FOR THE ARCHITECT'S AND ENGINEER'S REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL SHOW MEMBER DIMENSIONS, REINFORCEMENT, REVEALS, AND INSERT LOCATIONS. MEMBERS SHALL NOT BE ERECTED UNTIL THE REVIEWED SHOP DRAWINGS ARE RECEIVED IN THE FIELD.

C. FIELD RECORDS: COPIES OF STRESSING FORCES, TENDON ELONGATIONS, CONCRETE COMPRESSION TESTS AND CONCRETE SLUMP FOR EACH DAY'S POUR AND FOR EACH TYPE OF UNIT SHALL BE SENT TO THE ENGINEER.

4-2 FABRICATION SHOP: ALL FABRICATION SHALL BE DONE IN A SHOP THAT IS ACCEPTABLE TO THE BUILDING DEPARTMENT. SPECIAL INSPECTION IS NOT REQUIRED AT MANUFACTURER'S PLANT THAT MEET THE REQUIREMENTS OF CBC SECTION 1701.7

4-3 CONSTRUCTION DESIGN: DESIGN OF ADDITIONAL REINFORCEMENT, INSERTS, ETC. REQUIRED FOR LIFTING AND HANDLING OPERATIONS SHALL BE PROVIDED BY THE PRECAST MEMBER FABRICATOR. 4-4 SHORED CONSTRUCTION: ALL BEAMS SHALL BE SHORED AT THIRD POINTS AND

ALL GIRDERS SHALL BE SHORED AT EACH SUPPORTED BEAM LOCATION. SHORES SHALL BE INSTALLED SNUG BEFORE CONCRETE IS PLACED, AND NOT BE REMOVED UNTIL THE CONCRETE HAS ATTAINED 3000 PSI. THE GENERAL CONTRACTOR IS

MANUFACTURER

MISCELLANEOUS

NOT TO SCALE

OUTSIDE DIAMETER

OPPOSITE HAND

ON CENTER

PLATE

NELSON STUD ANCHOR

OVERSIZE ROUND HOLE

POWDER DRIVEN FASTENER

NEW

NOMINAL

MTL

PLYWD PLYWOOD

PLACES

PARTIAL PENETRATION

PRESSURE TREATED

PRECAST CONCRETE

POST-TENSIONED

SLAB-ON-GRADE

SHORT SLOTTED HOLES

REINFORCEMEN

SHEATHING

STANDARD

STEEL

SQUARE

PLCS

REQ'D

SHÇ

STD

RESPONSIBLE FOR PROVIDING ADEQUATE SHORES.

ABBREVIATIONS

HORIZ (H) HORIZONTAL

HIGH STRENGTH BOLTS

SECTION 5: MASONRY

5-1 CONCRETE MASONRY UNITS: UNITS SHALL CONFORM TO CBC STANDARD 21-4, GRADE N, TYPE I, AND SHALL BE SINGLE OR DOUBLE OPEN END BOND BEAM UNITS.

GENERAL NOTES

5-2 COMPRESSIVE STRENGTH: COMPRESSIVE STRENGTH OF INDIVIDUAL ELEMENTS OF CMU CONSTRUCTION SHALL EQUAL OR EXCEED THE SPECIFIED OVERALL I'm.

A. OVERALL f'm: 1500 PSI, UNO

B. GROUT: 2000 PSI MINIMUM AT 28 DAYS.

C. MORTAR (TYPE S): 1800 PSI MINIMUM AT 28 DAYS.

5-3 COMPRESSION TESTING: I'm SHALL BE DETERMINED BY PRISM TESTING PER CBC SECTION 2105.3.

5-4 GROUTING REQUIREMENTS

A. GROUT EXTENT: FILL ALL CELLS.

B. HIGH-LIFT PROCEDURE: FOR BLOCK LIFTS OVER FIVE FEET, PROVIDE CLEANOUTS AT EVERY BOTTOM CELL. TOTAL GROUT LIFT SHALL NOT EXCEED 6'-0", AND TOTAL POUR DEPTH SHALL NOT EXCEED CBC TABLE 21-C.

C. ALL GROUT SHALL CONTAIN "GROUT AID" OR EQUAL.

5-5 REINFORCING STEEL: SEE SECTION 6, "REINFORCING STEEL", EXCLUDING CLEAR COVERAGE REQUIREMENTS. REBAR POSITIONERS ARE REQUIRED PER DETAIL 2/S4.5.

5-6 REBAR LAPS: LAP THE GREATER OF (60) BAR DIAMETERS OR 2'-0", UNLESS SPECIFICALLY NOTED.

5-7 ANCHORS: LOCATE ANCHOR BOLTS AND SLEEVE ANCHORS WITHIN 2" OF THE CENTER OF A CELL

5-8 SHOP DRAWINGS: MASONRY CONTRACTOR SHALL PROVIDE REBAR SHOP DRAWINGS.

SECTION 6: REINFORCING STEEL 6-1 MATERIALS: REINFORCING STEEL SHALL BE ASTM A-615 GRADE 60. MOMENT FRAME REINFORCING (EXCLUDING TIES) SHALL BE ASTM A-706 OR

SHALL MEET THE FOLLOWING REQUIREMENTS: A. ACTUAL YIELD STRENGTH SHALL NOT EXCEED SPECIFIED YIELD STRENGTH BY MORE THAN 18 KSI (RETESTS SHALL NOT EXCEED

B. THE RATIO OF THE ACTUAL TENSILE ULTIMATE STRENGTH TO THE ACTUAL TENSILE YIELD STRENGTH SHALL NOT EXCEED 1.25

REINFORCING STEEL THAT IS TO BE WELDED SHALL CONFORM TO ASTM A-706. UNLESS SPECIFICALLY NOTED OTHERWISE. OTHER GRADES, IF ALLOWED, SHALL HAVE A MAXIMUM CARBON EQUIVALENT OF 0.65%. WELDING ELECTRODES SHALL BE LOW - HYDROGEN, AND SHALL BE E90XX FOR 60 GRADE REINFORCING STEEL AND E70XX FOR 40 GRADE.

WIRE MESH SHALL CONFORM TO ASTM A-185.

THIS VALUE BY AN ADDITIONAL 3 KSI).

6-2 SHOP DRAWINGS: NO REINFORCING STEEL SHALL BE PLACED UNTIL SHOP DRAWINGS THAT HAVE BEEN REVIEWED BY THE ENGINEER HAVE BEEN RECEIVED ON THE JOB SITE.

SHOP DRAWINGS SHALL CONTAIN ALL INFORMATION NECESSARY FOR CORRECTLY PLACING ALL REINFORCING STEEL WITHOUT REFERRAL TO THE STRUCTURAL DRAWINGS. SHOP DRAWINGS SHALL NOT CONTAIN ANY REPRODUCTIONS OF THE STRUCTURAL DRAWINGS.

6-3 CLEAR COVERAGE: CONCRETE CLEAR COVERAGE TO REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING MINIMUMS, UNLESS SPECIFICALLY NOTED OTHERWISE:

A. CAST-IN-PLACE CONCRETE:

1. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO SOIL - 3"

2. CONCRETE WITH SOIL OR WEATHER EXPOSURE: A. #5 BARS AND SMALLER - 1 1/2" B. #6 BARS AND LARGER - 2"

CONCRETE WITHOUT SOIL OR WEATHER EXPOSURE: A. SLABS, WALLS, AND JOISTS: 1. #11 BARS AND SMALLER - 3/4"

2. #14 BARS AND LARGER - 1 1/2" B. CÖLUMNS AND BEAMS - TO PRIMARY REINFORCEMENT, TIES, STIRRUPS, AND SPIRALS - 1 1/2"

B. PRECAST CONCRETE (PLANT CONTROL CONDITIONS):

. CONCRETE WITH SOIL OR WEATHER EXPOSURE

A. WALL PANELS: 1. #11 BARS AND SMALLER - 3/4"

3. #14 BARS AND LARGER - :

2. #14 BARS AND LARGER - 1 1/2" B. OTHER MEMBERS: 1. #5 BARS AND SMALLER - 1 1/4" . #6 THRU #11 BARS - 1 1/2"

C. PRESTRESSED CONCRETE:

1. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO SOIL - 3"

2. CONCRETE WITH SOIL OR WEATHER EXPOSURE: A. WALL PANELS, SLABS, JOISTS - 1" B. OTHER MEMBERS - 1 1/2"

3. CONCRETE WITHOUT SOIL OR WEATHER EXPOSURE: A. SLABS, WALLS, AND JOISTS - 3/4" B. COLUMNS AND BEAMS:

1. TIES, STIRRUPS, AND SPIRALS - 1" 2. PRIMARY REINFORCEMENT - 1 1/2" 6-4 LAP SPLICES: REINFORCING BARS SHALL BE LAPPED AT LENGTHS AND LOCATIONS SHOWN ON THE DRAWINGS. ADDITIONAL LAPS SHALL BE REVIEWED BY THE ENGINEER.

WIRE MESH SHALL BE LAPPED ONE WIRE SPACE PLUS 2" (8" MINIMUM) BETWEEN OUTERMOST CROSS WIRES OF ADJACENT SHEETS.

STRUCTURAL WELDED WIRE REINFORCEMENT

SYMMETRICAL

TO (P) TOP OF (PLYWOOD)

VERT (V) VERTICAL

TOP & BOTTOM

TOP-OF-CONCRETE

TOP-OF-FOOTING

UNLESS NOTED OTHERWISE

WELDED WIRE FABRIC

TOP-OF-STEEL

TOP-OF-WALL

WORKPOINT

WITH

6-5 FIELD BENDING: FIELD BENDING OF REINFORCING BARS SHALL BE REVIEWED BY THE ENGINEER. BENDING OF #8 BARS AND SMALLER SHALL BE MADE COLD. BENDING OF #8, #9, AND #10 BARS MAY BE UNIFORMLY PREHEATED TO 1400 TO 1600 DEGREES F. AND BENT PER CRSI RECOMMENDATIONS.

SECTION 10: POST-TENSIONED CONCRETE

10-1 MATERIALS:

A. TENDONS: PRESTRESSING TENDONS SHALL BE UNCOATED, SEVEN-WRE LOW RELAXATION STEEL STRAND, AND SHALL CONFORM TO ASTM A-416, GRADE 270. TENDONS SHALL BE 1/2" NOMINAL DIAMETER, WITH AN AREA OF 0.153 SQUARE INCHES.

B. HARDWARE: ANCHORAGE AND COUPLING HARDWARE SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 AND THE POST-TENSIONING INSTITUTE'S GUIDELINE SPECIFICATIONS.

C. MISCELLANEOUS: SHEATHING, GREASE, TAPE, ETC. SHALL CONFORM TO THE REQUIREMENTS OF PTI SPECIFICATIONS.

10-2 SUBMITTALS:

A. SHOP DRAWINGS: LAYOUT AND SUPPORT BAR SHOP DRAWINGS SHALL BE SUBMITTED FOR THE ENGINEER'S REVIEW PRIOR TO FABRICATION. LAYOUT DRAWINGS SHALL INDICATE ALL TENDONS TO BE STRESSED FROM ONLY ONE END. FIELD PLACEMENT SHALL NOT BEGIN UNTIL THE REVIEWED SHOP DRAWINGS ARE RECEIVED IN THE FIELD.

SHOP DRAWINGS SHALL NOT CONTAIN ANY REPRODUCTIONS OF THE STRUCTURAL DRAWINGS. SHOP DRAWINGS SHALL BE COMPLETE AND STAND ALONE, SUCH THAT THEY DO NOT REFER TO THE STRUCTURAL DRAWINGS.

B. CALCULATIONS: CALCULATIONS FOR THE EFFECTIVE FORCE FOR EACH TENDON SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.

CALCULATIONS SHALL INCLUDE THE EFFECTS OF LONG TERM STRESS LOSSES DUE TO ELASTIC SHORTENING, CREEP, SHRINKAGE, AND TENDON RELAXATION, ASSUMING AN AVERAGE ANNUAL AMBIENT RELATIVE HUMIDITY OF 60%. SHORT TERM STRESS LOSSES DUE TO ANCHOR SLIPPAGE AND FRICTION SHALL ALSO BE CONSIDERED. FRICTION LOSSES MAY NOT BE CONSIDERED TO REDISTRIBUTE ALONG THE LENGTH OF THE TENDON, AND THE EFFECTIVE FORCE SHOWN IS THE MINIMUM REQUIREMENT ALONG THE LENGTH OF THE TENDON.

WOBBLE AND CURVATURE VALUES ASSUMED IN THE CALCULATIONS SHALL BE FIELD VERIFIED.

C. FINAL EFFECTIVE FORCES INDICATED ON STRUCTURAL DRAWINGS ARE BASED ON 26.4 KIPS PER CABLE.

10-3 INSTALLATION:

A. TYPICAL DETAILS: FOR POST-TENSIONING DETAILS, SEE SHEET \$4.2.

B. SUPPORT BARS: SUPPORT BARS SHALL BE #4 OR LARGER AND SPACED AT A MAXIMUM OF 4'-0" ON CENTER, WITH 2'-0" MINIMUM LAP SPLICES.

C. TENDON SECURING: TENDONS AND SUPPORT BARS SHALL BE FIRMLY ANCHORED TO PREVENT DISPLACEMENT FROM SPECIFIED VERTICAL AND HORIZONTAL POSITIONS. ALL SUPPORT BARS SHALL BE CHAIRED AT EACH TENDON.

CONCRETE WILL BE PLACED SO AS TO NOT DISTURB TENDON PLACEMENT. ANY TENDON DISPLACED DURING CONCRETE PLACEMENT SHALL BE MOVED BACK TO THE SPECIFIED PROFILE IMMEDIATELY.

D. TENDONS AT COLUMNS: IN FLAT PLATE CONSTRUCTION, A MINIMUM OF TWO TENDONS SHALL BE PLACED OVER EACH COLUMN IN EACH DIRECTION. IN CASE OF CONFLICT, TENDON VERTICAL ORDINATES FOR BANDED TENDONS SHALL GOVERN OVER DISTRIBUTED TENDONS.

E. TENDON INTERFERENCE: WHEN PERPENDICULAR TENDONS REQUIRE THE SAME VERTICAL ORDINATE AT THE SAME LOCATION, ONE TENDON MAY BE MOVED HORIZONTALLY TO AVOID THE INTERFERENCE.

THE SPECIFIED TENDON PROFILE GOVERNS WHEN REBAR OR CONDUITS

INTERFERE WITH ANY TENDONS. F. SHEATHING REPAIR: ANY SHEATHING DAMAGE LONGER THAN ONE INCH. AND ALL SHEATHING TO STRESSING ANCHOR CONNECTIONS SHALL BE WRAPPED WITH TAPE TO PREVENT CEMENT SEEPAGE INTO THE

G. TENDON BAND ANCHORAGE: TENDON BANDS (GROUPS OF 3 OR MORE) REQUIRE SPECIAL SLAB REINFORCEMENT. SEE DETAIL 5/S4.2.

H. CLEAR COVER: TENDONS SHALL CLEAR OPENINGS PER DETAIL 6/S4.2.

10-4 STRESSING:

TENDON OR ANCHOR.

A. OPERATOR EXPERIENCE: ALL STRESSING OPERATIONS SHALL BE UNDER THE IMMEDIATE CONTROL OF A PERSON EXPERIENCED IN THIS TYPE OF WORK.

B. CONCRETE STRENGTH: STRESSING SHALL NOT COMMENCE UNTIL THE CONCRETE HAS REACHED AT LEAST 3000 PSI, AS INDICATED BY FIELD CURED COMPRESSION CYLINDERS.

C. CALIBRATION: EACH HYDRAULIC JACK SHALL BE CALIBRATED WITH AN ACCURATE READING PRESSURE GAUGE. EACH UNIT SHALL HAVE A CERTIFIED CALIBRATION SHEET. IF THE MEASURED ELONGATIONS BECOME INCONSISTENT, THE UNIT SHALL BE RECALIBRATED.

D. JACKING FORCE: THE MAXIMUM JACKING FORCE SHALL NOT EXCEED 80% OF THE TENDON'S SPECIFIED TENSILE FORCE, NOR 94% OF THE TENDON'S SPECIFIED YIELD FORCE. THE MAXIMUM FORCE IN THE TENDON AFTER ANCHORAGE SHALL BE 70% OF THE SPECIFIED TENSILE FORCE. E. ELONGATIONS: THE MEASURED TENDON ELONGATIONS SHALL BE

WITHIN 7% OF THE CALCULATED ELONGATIONS. OR WITHIN 1/8" FOR

SHORT TENDONS. IF THE ELONGATIONS CONSISTENTLY EXCEED THIS

LIMIT, RECALIBRATE THE JACK UNIT. F. STRESSING SEQUENCE: 1. ALL TEMPERATURE TENDONS, WHERE OCCUR.

2. ALL SLAB (DISTRIBUTED) TENDONS. G. TWO-WAY TENDON PULLS: FULL JACK FORCE SHALL BE APPLIED AT EACH END OF A TWO-WAY PULL. THE ANCHOR WEDGES AT THE OPPOSITE END OF THE PULL MUST BE FULLY SEATED AND CAUSE NO TENDON SLIPPAGE. THE TOTAL TENDON ELONGATION IS THE SUM OF

SHEET INDEX

H. SAFETY: TAKE ALL NECESSARY SAFETY PRECAUTIONS. DO NOT ALLOW ANYBODY TO STAND BEHIND JACKS DURING STRESSING.

10-5 TENDON DAMAGE: NO DRILLING, CORING, OR POWDER SHOTS SHALL BE PLACED IN THE POST-TENSIONED SLAB THAT MAY DAMAGE OR CONTACT ANY TENDONS. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATIONS OF ALL SLAB PENETRATIONS WITH TENDON DAMAGE POTENTIAL.

S1.0 GENERAL NOTES, ABBREVIATIONS & SHEET INDEX

GROUND LEVEL / FOUNDATION PLAN

S3.0 PILE CAPS & TYPICAL CONCRETE DETAILS

TYPICAL LEVEL (THIRD-FIFTH)

COLUMN SCHEDULE & DETAILS

FRAME BEAM ELEVATIONS

SECOND LEVEL

SIXTH LEVEL

S2.10 PARTIAL PLANS

S2.5 SEVENTH LEVEL / ROOF

CONCRETE DETAILS

THE ELONGATIONS AT EACH END.

SECTION 19: PRECAST PRESTRESSED PILES

19-1 MATERIALS:

A. CONCRETE: COMPRESSIVE STRENGTH SHALL BE A MINIMUM OF 5,000 PSI AT 28 DAYS, AND 4,000 PSI AT THE TIME OF DRIVING.

B. TENDONS: PRESTRESSING TENDONS SHALL BE UNCOATED. SEVEN-WIRE LOW RELAXATION STEEL STRAND, AND SHALL CONFORM TO ASTM A-416 GRADE 270. TENDONS SHALL HAVE A MINIMUM NOMINAL DIAMETER OF 1/2", WITH AN AREA OF 0.153 SQUARE INCHES.

C. MILD REINFORCEMENT: MILD REINFORCING STEEL SHALL CONFORM TO ASTM A-615.

19-2 SUBMITTALS:

DESIGN: PILES SHALL BE DESIGNED BY THE PILE FABRICATOR PER THE REQUIREMENTS OF THE STRUCTURAL DRAWINGS AND THE CALIFORNIA BUILDING CODE. DESIGN FOR HANDLING AND DRIVING OPERATIONS SHALL BE CONSIDERED.

B. CALCULATIONS: CALCULATIONS, STAMPED AND SIGNED BY AN ENGINEER LICENSED IN THE STATE OF CALIFORNIA, SHALL BE REVIEWED BY JESSEN-WRIGHT PRIOR TO PILE FABRICATION.

C. SHOP DRAWINGS: SHOP DRAWINGS, STAMPED AND SIGNED BY AN ENGINEER LICENSED IN THE STATE OF CALIFORNIA, SHALL BE REVIEWED BY JESSEN-WRIGHT PRIOR TO PILE FABRICATION. SHOP DRAWINGS SHALL SHOW MATERIAL PROPERTIES, MEMBER DIMENSIONS, AND REINFORCEMENT.

19-3 PERFORMANCE REQUIREMENTS:

A. PILE SIZE: PILES SHALL BE 14" SQUARE.

15'-0" FOR INDICATOR PILES.

B. MINIMUM PRESTRESS FORCE: DESIGN OF PILES SHALL CONFORM TO CBC SECTION 1808.5.3. THE MINIMUM NUMBER OF VERTICAL REINFORCING TENDONS AND/OR REBAR SHALL BE A TOTAL OF SIX.

C. TIES: SPIRAL REINFORCEMENT SHALL CONFORM TO CBC SECTION 1808.5.2. IN ADDITION, SPIRAL REINFORCEMENT FOR ALL PILES SHALL CONFORM TO CBC SECTION 1809.5. THE DESIGN FLEXURAL LENGTH SHALL BE ASSUMED TO BE 10'-0".

EARLY REFUSAL: LONGITUDINAL AND SPIRAL REINFORCEMENT SHALL BE EXTENDED TO ALLOW FOR THE POSSIBILITY OF AN EARLY DRIVING REFUSAL. ADDITIONAL LENGTH TO BE DETERMINED BY SOILS ENGINEER AFTER INDICATOR PILE TESTING. PROVIDE ADDITIONAL LENGTH OF

E. FLEXURAL AND SHEAR DESIGN LOADS: ALL PILES SHALL BE CONSIDERED AS FREE HEAD TYPE PILES. THE PILES SHALL BE DESIGNED FOR THE MOMENTS AND SHEARS INDUCED BY A TOP-OF-PILE HORIZONTAL DISPLACEMENT OF 1/4" (REFER TO GEOTECHNICAL REPORT).

MAXIMUM WORKING STRESS LATERAL LOAD 10.0 KIPS (SINGLE PILE) MAXIMUM ULTIMATE LATERAL LOAD 15.1 KIPS (SINGLE PILE)

F. AXIAL DESIGN LOADS: THE DESIGN LOADS ARE AS FOLLOWS:

MAXIMUM WORKING STRESS COMPRESSION LOAD 260 KIPS 260 KIPS MAXIMUM ULTIMATE COMPRESSION LOAD 390 KIPS MAXIMUM WORKING STRESS TENSION LOAD 0 KIPS 100 KIPS MAXIMUM ULTIMATE TENSION LOAD 0 KIPS 170 KIPS

19-4 FABRICATION SHOP: ALL FABRICATION SHALL BE DONE IN A SHOP THAT IS ACCEPTABLE TO THE BUILDING DEPARTMENT. CONTINUOUS, FULL-TIME INSPECTION OF SHOP FABRICATION MAY BE WAIVED ONLY TO THE EXTENT APPROVED BY THE BUILDING DEPARTMENT.

SECTION 20: MISCELLANEOUS

20-1 NON-SHRINK GROUT: NON-SHRINK GROUT SHALL BE A NON-METALLIC. PREMIXED. CEMENTITIOUS MIXTURE WITH NO SHRINKAGE AFTER PLACEMENT AND NO EXPANSION AFTER SET, PER ASTM C-827. COMPRESSIVE STRENGTH, PER ASTM C-109, SHALL BE AT LEAST 3000 PSI AT ONE DAY AND 5000 PSI AT 28 DAYS.

20-2 EXPANSION ANCHORS: EXPANSION ANCHORS IN CONCRETE SHALL BE RAMSET/REDHEAD TRUBOLT WEDGE ANCHORS PER ICBO #1372 OR EQUAL. EXPANSION ANCHORS IN MASONRY SHALL BE RAMSET/REDHEAD DYNABOLT

20-3 EPOXY/ADHESIVE ANCHORS: EPOXY ADHESIVE ANCHORS IN CONCRETE OR CMU SHALL BE RAMSET/REDHEAD EPCON SYSTEM ANCHORS PER ICBO #4285 OR EQUAL.

SLEEVE ANCHORS PER ICBO #1372 OR EQUAL.

20-4 REINFORCING BAR TERMINATORS: REINFORCING BAR TERMINATORS SHALL BE LENTON PER ICBO #3967 OR EQUAL.

20-5 FORMSAVERS: FORMSAVERS SHALL BE LENTON PER ICBO #3967 OR EQUAL. 20-6 STEEL STAIRS: STEEL STAIRS SHALL BE DESIGNED BY

THE STAIR FABRICATOR PER THE REQUIREMENTS OF THE ARCHITECTURAL DRAWINGS AND THE CBC FOR A 100 PSF LIVE LOAD. CALCULATIONS AND SHOP DRAWINGS, STAMPED AND SIGNED BY AN ENGINEER LICENSED IN THE STATE OF CALIFORNIA, SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO STAIR FABRICATION.

20-7 EXTERIOR ARCHITECTURAL SCREEN WALLS: EXTERIOR WALLS AND CONNECTIONS SHALL BE DESIGNED BY THE WALL FABRICATOR PER THE REQUIREMENTS OF THE ARCHITECTURAL DRAWINGS AND THE CBC. CALCULATIONS AND SHOP DRAWINGS, STAMPED AND SIGNED BY AN ENGINEER LICENSED IN THE STATE OF CALIFORNIA. SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO WALL FABRICATION.

20-8 GENERAL CONTRACTOR SHALL KEEP A DIGITAL CAMERA ON-SITE AND PROVIDE

A. PRECAST CONCRETE BEAMS: SEE SECTION 4 ON SHEET \$1.0.

C. STEEL STAIRS: SEE NOTE 20-6 ON SHEET S1.0.

S4.1 TYPICAL CONCRETE DETAILS

TYPICAL CONCRETE DETAILS

TYPICAL MASONRY DETAILS

ELEVATOR WALL ELEVATIONS

TYPICAL CONCRETE DETAILS

ALTERNATE SLAB REINFORCING & BEAM TIES

Wish remission

AFFROYED

B. PRECAST PRESTRESSED PILES: SEE SECTION 19 ON SHEET S1.0.

PHOTOGRAPHS REQUESTED BY THE STRUCTURAL ENGINEER WITHIN TWO WORKING DAYS VIA ELECTRONIC MAIL. 20-9 DEFERRED SUBMITTALS SHALL BE REVIEWED BY THE ENGINEER OF RECORD PRIOR TO BEING

BEING SUBMITTED TO THE BUILDING DEPARTMENT AND SHALL INCLUDE THE FOLLOWING:

D. ARCHITECTURAL SCREEN WALLS: SEE NOTE 20-7 ON SHEET S1.0

GENERAL NOTES **ABBREVIATIONS**

	6/29/04	NONE
1	DRAWN BY	CHECKED BY
	MATT	
	DRAWING NO.	SHEET
	PROGRAM NO.	R-NO.

PROJECT NO:

HRM Plumbing 3650 Wilcox Road Stockton, California 9xxxx 209. 931. 9650 Electrical Designer - Design/Builder

CALIFORNIA

STOCKTON,

City of Stockton

F&H Construction

209. 931. 3738

HNA / Pacific

310. 544. 8670

209. 944. 9110

530. 894. 5345

61 Sea Breeze Avenue

Wenell Mattheis Bowe

Stockton, California 95202

113 West 8th Avenue, Suite A

Siegfried Engineering, Inc.

4045 Coronado Avenue

Plumbing Designer - Design/Builder

Stockton, California

209. 943. 2021

Chico, California 95926

246 E. Main Street

4945 Waterloo Road

Stockton, California 95215

CONSULTANTS:

Rancho Palos Verdes, California 90275

Jessen-Wright Structural Engineers

DESIGN BUILDER:

OWNER:

209. 466. 3691 Mechanical Designer - Design/Builder Comfort Air 1607 Turnpike Road Stockton. California 95201

209. 466. 4601

Collins Electrical

611 W. Fremont Street

Stockton, California 92503

CONSTRUCTION DOCUMENTS

REVISIONS:

9/21/04 PERMIT SET

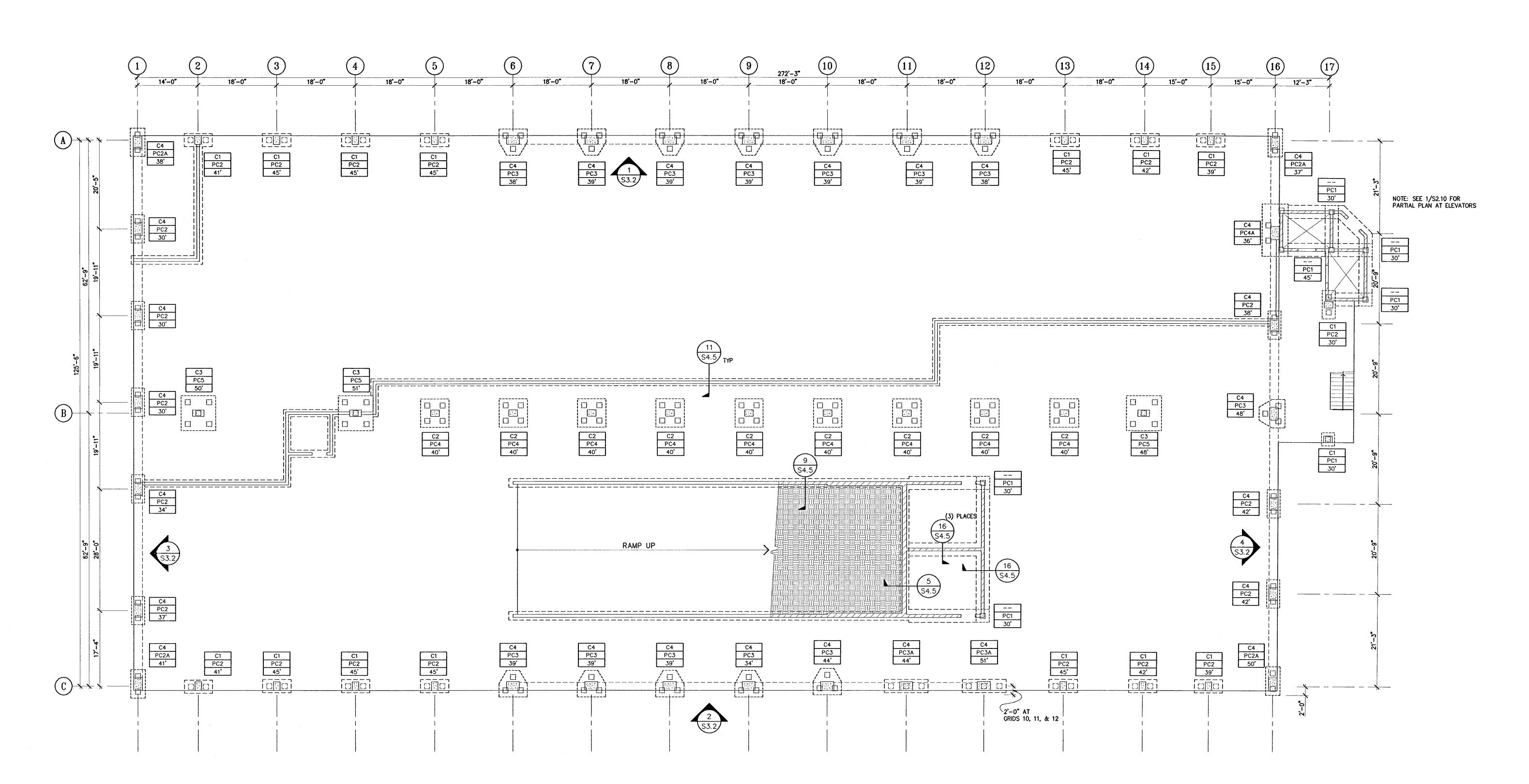
SHEET TITLE & SHEET INDEX

SCALE

HNA 2319

S1.0

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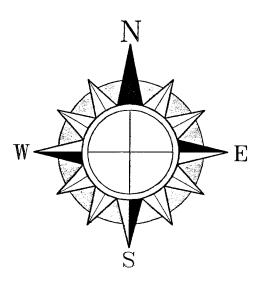


NOTES:

SLABS ON GRADE SHALL BE 6" THICK W/ #4 AT 18" OC EW AT CENTERLINE. TYP UNO HOOK ALL BARS AT SLAB EDGE OVER SUBGRADE PER SOILS REPORT. SEE DETAIL 9/S4.1 FOR EOS, CJ'S, CURBS, ETC.

2. SEE SOILS REPORT FOR SUBGRADE PREPARATION.

- 3. SEE DETAIL 1/S3.1 FOR COLUMN SCHEDULE.
- 4. SEE SHEET S3.0 FOR PILE CAPS.
- 5. VERIFY ALL DIMENSIONS, TOP OF SLAB, WALL AND CURB ELEVATIONS AND LOCATIONS WITH ARCHITECT. SEE DETAIL 9/S4.1.
- 6. SEE SHEET S4.1 & S4.5 FOR TYPICAL DETAILS, UNO.
- GENERAL CONTRACTOR SHALL PROVIDE CONTROL & CONSTRUCTION JOINT LAYOUT PLAN FOR ENGINEER'S REVIEW PRIOR TO CONCRETE PLACEMENT.
- SEE ARCH DRAWINGS FOR STAIRS, TYP. ALSO SEE S5.1 FOR PARTIAL PLAN AND TYPICAL STRUCTURAL DETAILS.



GIIY STOCKTON ARENA PARKING STRUCTURE

STOCKTON, CALIFORNIA

0 W N E R:
City of Stockton

209. 931. 3738

310. 544. 8670

Only of Glocklon

DESIGNBUILDER:
F&H Construction
4945 Waterloo Road
Stockton, California 95215

CONSULTANTS:

Architect - Parking Consultant HNA / Pacific 61 Sea Breeze Avenue Rancho Palos Verdes, California 90275

Design Architect
Wenell Mattheis Bowe
246 E. Main Street
Stockton, California 95202
209. 944. 9110

Structural Engineer
Jessen-Wright Structural Engineers
113 West 8th Avenue, Suite A
Chico, California 95926
530. 894. 5345

Civil Engineer
Siegfried Engineering, Inc.
4045 Coronado Avenue
Stockton, California
209. 943. 2021

Plumbing Designer - Design/Builder HRM Plumbing
3650 Wilcox Road
Stockton, California 9xxxx
209. 931. 9650

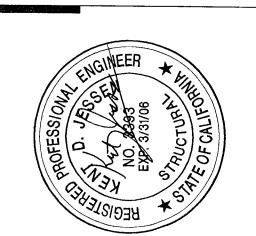
Electrical Designer - Design/Builder Collins Electrical 611 W. Fremont Street Stockton, California 92503 209. 466. 3691

Mechanical Designer - Design/Builder Comfort Air 1607 Turnpike Road Stockton. California 95201 209. 466. 4601

CONSTRUCTION DOCUMENTS

REVISIONS:

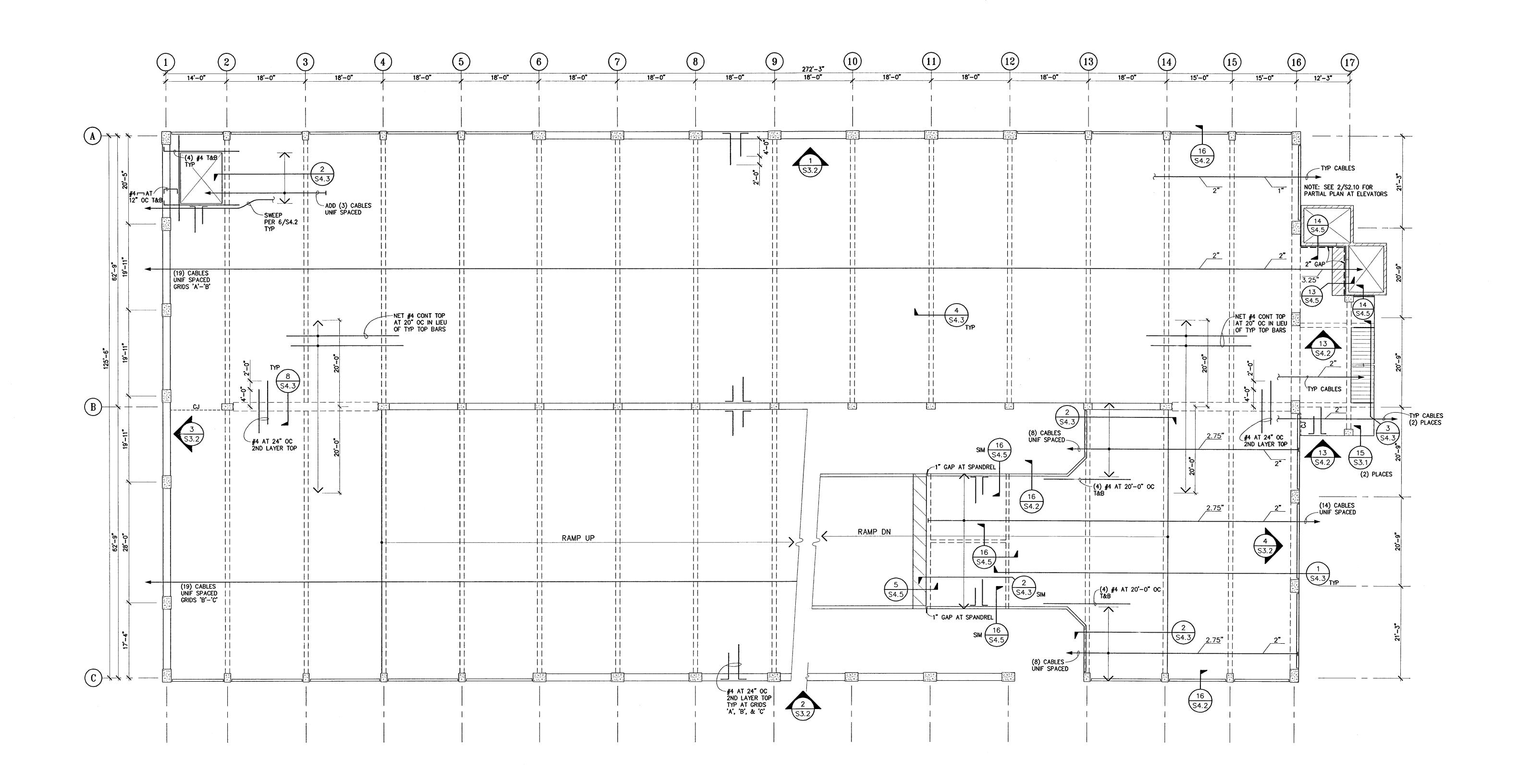
9/21/04 PERMIT SET



FOUNDATION/
GROUND LEVEL
PLAN

DATE	SCALE
6/29/04	3/32" = 1-0"
DRAWN BY	CHECKED BY
MATT	
DRAWING NO.	SHEET
PROGRAM NO.	R-NO.

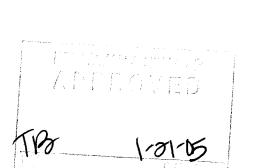
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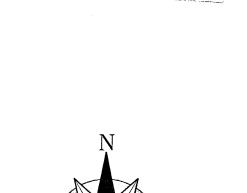


NOTES

- SEE SHEET S1.0 FOR TYP P/T NOTES AND SHEETS S4.1 THRU S4.4 FOR TYPICAL CONCRETE AND P/T DETAILS.
- 2. SLABS SHALL BE 5" THICK.
- VERIFY ALL TOP OF SLAB, WALL, STEP & CURB ELEVATIONS & LOCATIONS AND OPENING SIZES & LOCATIONS W/ ARCHITECT.
- 4. EXTEND ALL BARS TO EDGE OF SLAB OR OPENING WHERE OCCURS AND PROVIDE 90° HOOKS.
- 5. TYPICAL TENDON ORDINATES ARE AS FOLLOWS, UNO: A. AT STRESSING AND ANCHORAGE ENDS . . AT MID-DEPTH OF SLAB. B. OVER SUPPORTS AT 1" BELOW TOP OF SLAB. C. AT MID SPAN AT 1" ABOVE SOFFIT OF SLAB.

 D. "*" INDICATES TENDON ORDINATE MEASURED FROM BOTTOM OF BEAM. E. ORDINATES SHOWN APPLY TO THE TENDONS PARALLEL TO ORDINATE INDICATOR TAIL.
- 6. PROVIDE EMBEDDED ITEMS AT STAIRS AND ELEVATORS AS REQUIRED BY MANUFACTURERS.
- 7. PROVIDE (1) #4 MIN TOP & BOTTOM ALONG ALL SLAB EDGES, INCLUDING CONSTRUCTION JOINTS, UNO AND EXTEND MIN 3'-0" BEYOND INSIDE SLAB EDGE CORNERS, UNO SPACE ALL TRIM BARS AT 4" OC WHERE MULTIPLE BARS OCCUR. EXTEND TRIM BARS 4'-0" BEYOND CORNERS, TYP.





STOCKTON **ARENA PARKING** STRUCTURE

STOCKTON, CALIFORNIA

OWNER:

City of Stockton

DESIGN BUILDER: F&H Construction 4945 Waterloo Road Stockton, California 95215

CONSULTANTS:

209. 931. 3738

Architect - Parking Consultant HNA / Pacific 61 Sea Breeze Avenue Rancho Palos Verdes, California 90275 310. 544. 8670

Design Architect
Wenell Mattheis Bowe 246 E. Main Street Stockton, California 95202 209. 944. 9110

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Civil Engineer Siegfried Engineering, Inc. 4045 Coronado Avenue Stockton, California 209. 943. 2021

Plumbing Designer - Design/Builder HRM Plumbing 3650 Wilcox Road Stockton, California 9xxxx 209. 931. 9650

Electrical Designer - Design/Builder Collins Electrical

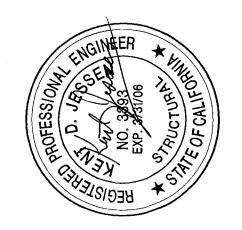
611 W. Fremont Street Stockton, California 92503 209. 466. 3691

Mechanical Designer - Design/Builder Comfort Air 1607 Turnpike Road Stockton. California 95201 209. 466. 4601

CONSTRUCTION DOCUMENTS

REVISIONS:

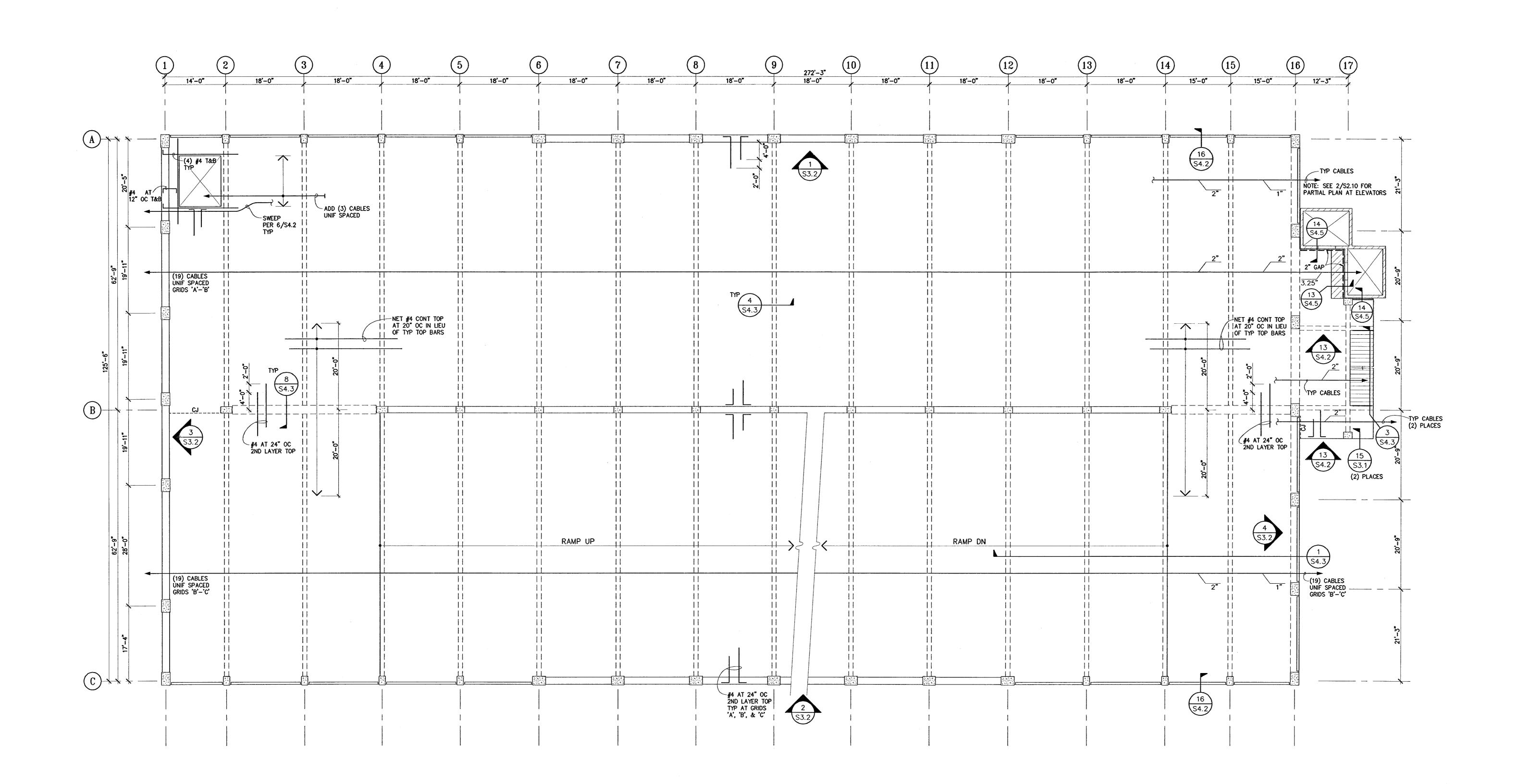
9/21/04 PERMIT SET



SECOND LEVEL **PLAN**

SCALE 6/29/04 3/32" = 1-0" DRAWN BY CHECKED BY MDN DRAWING NO. SHEET PROGRAM NO. R-NO.

DRAWING NO:

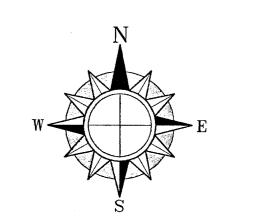


<u>NOTES</u>

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 B. OVER SUPPORTS AT 1" BELOW TOP OF SLAB.
 C. AT MID SPAN AT 1" ABOVE SOFFIT OF SLAB.
 D. "*" INDICATES TENDON ORDINATE MEASURED FROM BOTTOM OF BEAM.

E. ORDINATES SHOWN APPLY TO THE TENDONS PARALLEL TO ORDINATE

- 6. PROVIDE EMBEDDED ITEMS AT STAIRS AND ELEVATORS AS REQUIRED BY MANUFACTURERS.
- 7. PROVIDE (1) #4 MIN TOP & BOTTOM ALONG ALL SLAB EDGES, INCLUDING CONSTRUCTION JOINTS, UNO AND EXTEND MIN 3'-0" BEYOND INSIDE SLAB EDGE CORNERS, UNO SPACE ALL TRIM BARS AT 4" OC WHERE MULTIPLE BARS OCCUR. EXTEND TRIM BARS 4'-0" BEYOND CORNERS, TYP.



STOCKTON ARENA PARKING STRUCTURE

STOCKTON, CALIFORNIA

OWNER:

City of Stockton

DESIGNBUILDER:
F&H Construction
4945 Waterloo Road
Stockton, California 95215
209. 931. 3738

CONSULTANTS:

Architect - Parking Consultant
HNA / Pacific
61 Sea Breeze Avenue
Rancho Palos Verdes, California 90275
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209. 943. 2021

Plumbing Designer - Design/Builder HRM Plumbing
3650 Wilcox Road
Stockton, California 9xxxx
209. 931. 9650

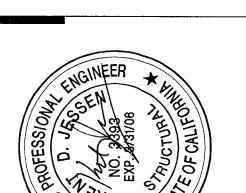
Electrical Designer - Design/Builder Collins Electrical 611 W. Fremont Street Stockton, California 92503 209. 466. 3691

Mechanical Designer - Design/Builder Comfort Air 1607 Turnpike Road Stockton, California 95201 209, 466, 4601

CONSTRUCTION DOCUMENTS

9/21/04 PERMIT SET

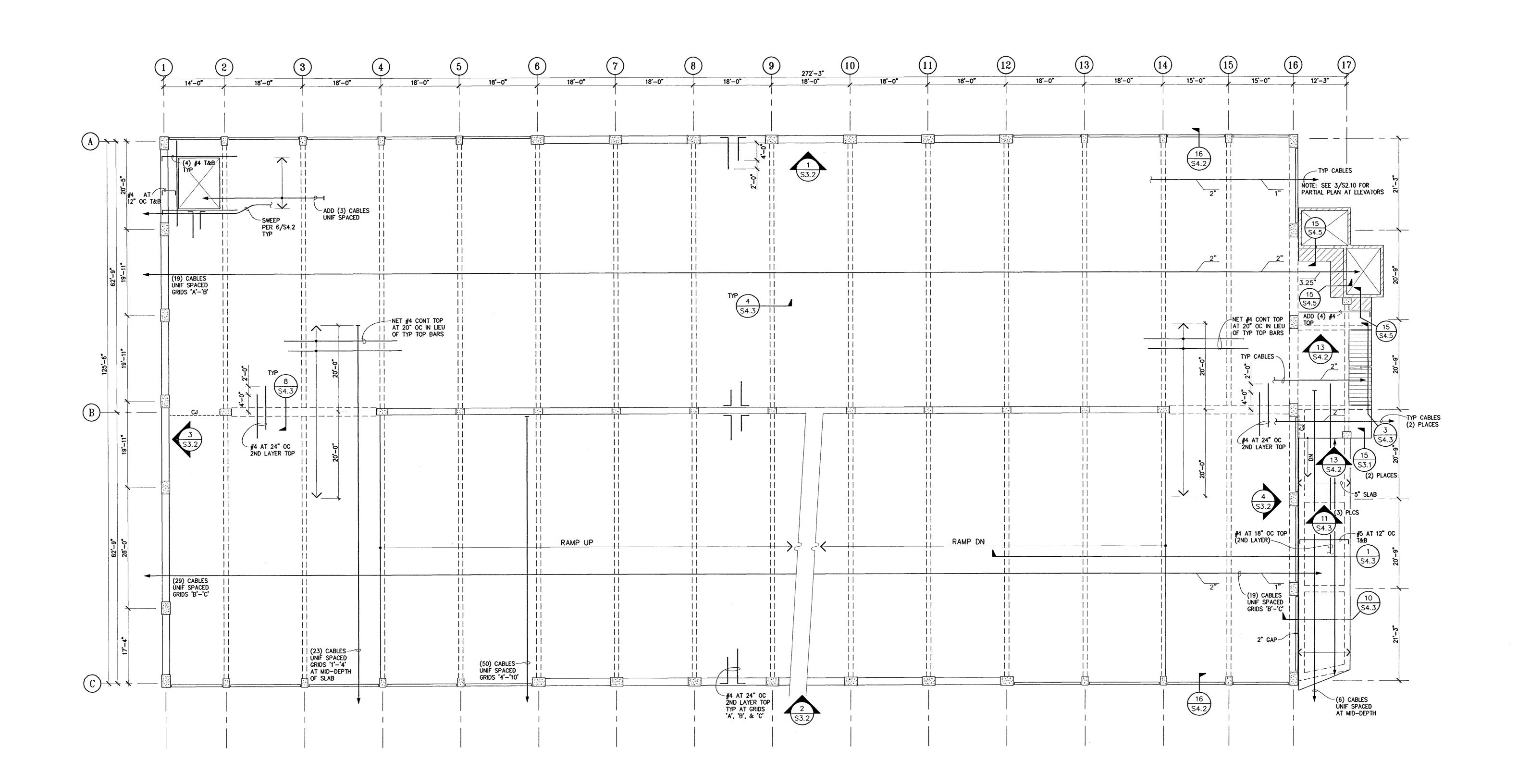
REVISIONS:



TYPICAL LEVEL PLAN (3RD - 5TH)

DATE	SCALE
6/29/04	3/32" = 1-0"
DRAWN BY	CHECKED BY
MDN	
DRAWING NO.	SHEET
PROGRAM NO.	R-NO.

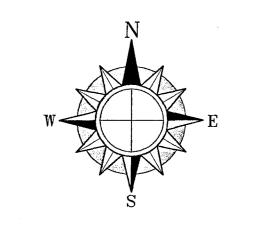
DRAWING NO:



NOTES

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1000

CITY STOCKTON **ARENA PARKING** STRUCTURE

STOCKTON, CALIFORNIA

OWNER: City of Stockton

DESIGN BUILDER F&H Construction

4945 Waterloo Road Stockton, California 95215 209. 931. 3738

CONSULTANTS:

Architect - Parking Consultant HNA / Pacific 61 Sea Breeze Avenue Rancho Palos Verdes, California 90275 310. 544. 8670

Design Architect Wenell Mattheis Bowe 246 E. Main Street Stockton, California 95202 209. 944. 9110

Structural Engineer
Jessen-Wright Structural Engineers 113 West 8th Avenue, Suite A Chico, California 95926 530. 894. 5345

Civil Engineer Siegfried Engineering, Inc. 4045 Coronado Avenue Stockton, California 209. 943. 2021

Plumbing Designer - Design/Builder HRM Plumbing 3650 Wilcox Road Stockton, California 9xxxx 209. 931. 9650

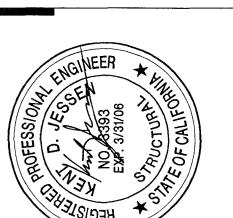
Electrical Designer - Design/Builder Collins Electrical 611 W. Fremont Street Stockton, California 92503 209. 466. 3691

Mechanical Designer - Design/Builder Comfort Air 1607 Turnpike Road Stockton. California 95201 209. 466. 4601

CONSTRUCTION DOCUMENTS

REVISIONS:

9/21/04 PERMIT SET

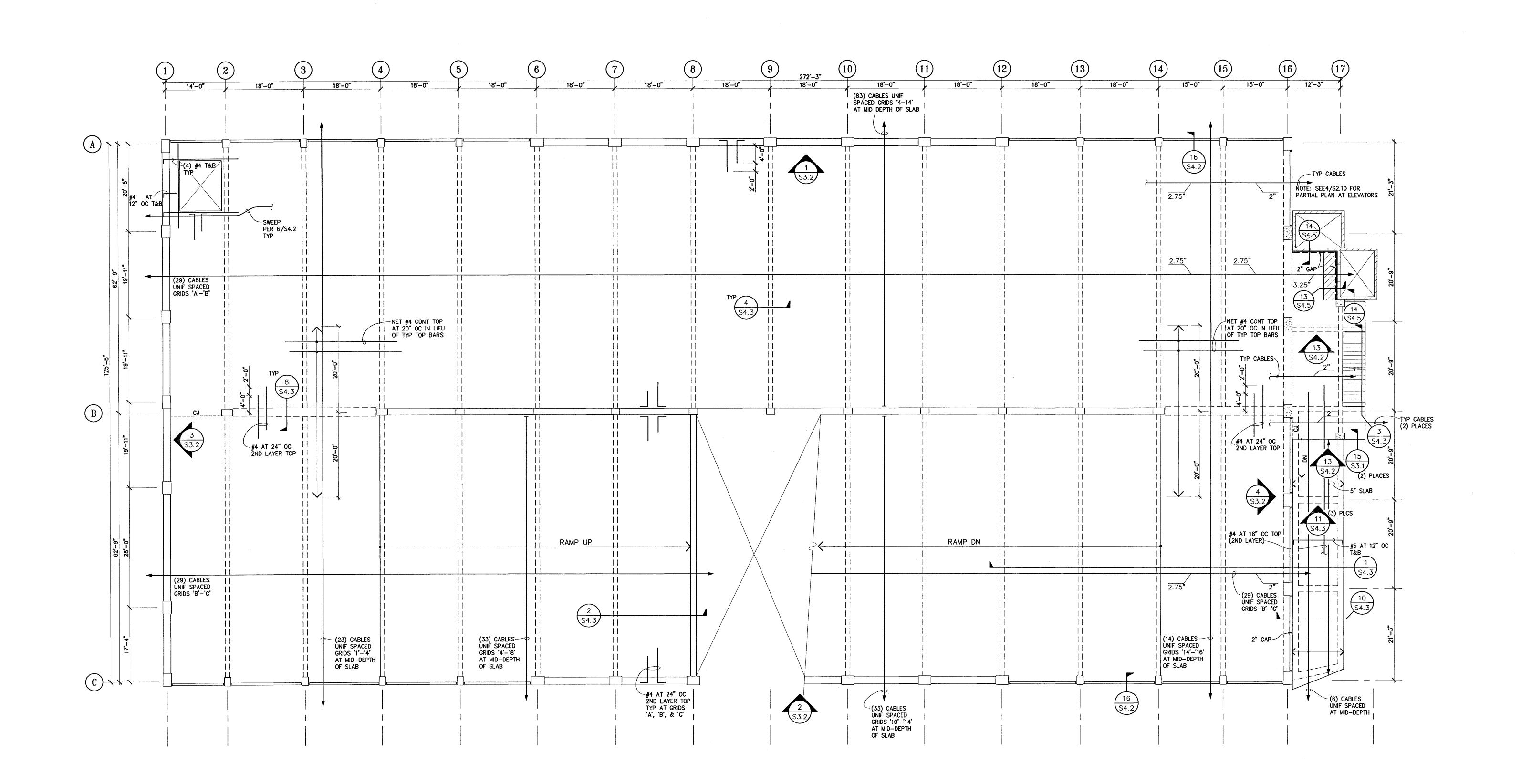


SHEET TITLE SIXTH LEVEL

SCALE 3/32" = 1-0" 6/29/04 DRAWN BY CHECKED BY MDN SHEET DRAWING NO. PROGRAM NO. R-NO.

DRAWING NO:

PROJECT NO: H N A 2319

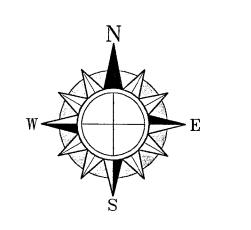


NOTES

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INDICATOR TAIL.

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- 4. EXTEND ALL BARS TO EDGE OF SLAB OR OPENING WHERE OCCURS AND PROVIDE 90° HOOKS.
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 B. OVER SUPPORTS AT 1.5" BELOW TOP OF SLAB.
 C. AT MID SPAN AT 1" ABOVE SOFFIT OF SLAB.
 D. "*" INDICATES TENDON ORDINATE MEASURED FROM BOTTOM OF BEAM.
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CITY OF STOCKTON ARENA PARKING STRUCTURE

STOCKTON, CALIFORNIA

OWNER:

City of Stockton

DESIGN BUILDER:

F&H Construction 4945 Waterloo Road Stockton, California 95215 **209. 931. 3738**

CONSULTANTS:

Architect - Parking Consultant
HNA / Pacific
61 Sea Breeze Avenue
Rancho Palos Verdes, California 90275
310. 544. 8670

Design Architect
Wenell Mattheis Bowe
246 E. Main Street
Stockton, California 95202
209. 944. 9110

Structural Engineer
Jessen-Wright Structural Engineers
113 West 8th Avenue, Suite A
Chico, California 95926
530. 894. 5345

Civil Engineer
Siegfried Engineering, Inc.
4045 Coronado Avenue
Stockton, California
209. 943. 2021

Plumbing Designer - Design/Builder HRM Plumbing 3650 Wilcox Road Stockton, California 9xxxx 209. 931. 9650

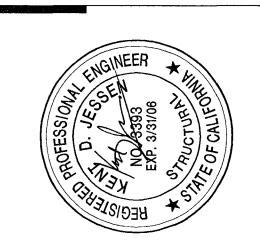
Electrical Designer - Design/Builder Collins Electrical 611 W. Fremont Street Stockton, California 92503 209. 466. 3691

Mechanical Designer - Design/Builder Comfort Air 1607 Turnpike Road Stockton, California 95201 209, 466, 4601

CONSTRUCTION DOCUMENTS

PEVISIONS:

9/21/04 PERMIT SET

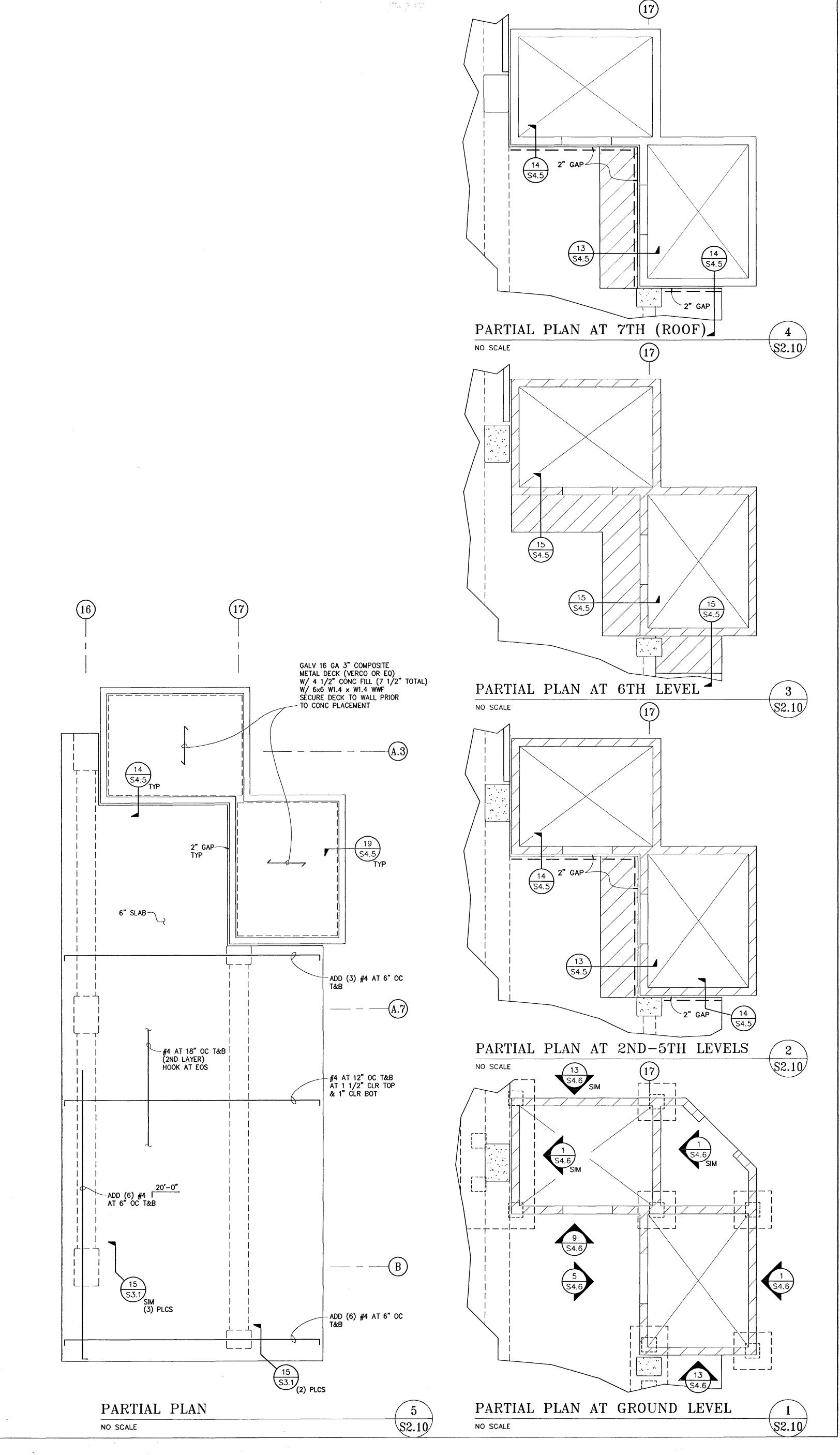


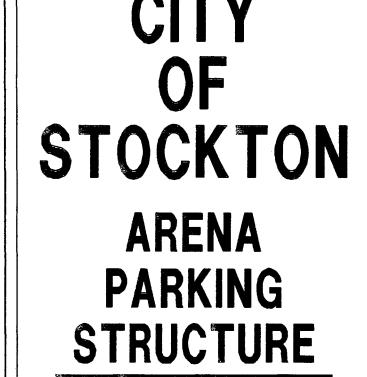
ROOF LEVEL PLAN (7TH LEVEL)

DATE	SCALE
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DRAWN BY	CHECKED BY
MDN	
DRAWING NO.	SHEET
PROGRAM NO.	R-NO.

S2.5

PROJECT NO: H N A 2319





STOCKTON, CALIFORNIA

0 W N E R :
City of Stockton

209. 931. 3738

DESIGNBUILDER:

F&H Construction

4945 Waterloo Road
Stockton, California 95215

CONSULTANTS:

Architect - Parking Consultant
HNA / Pacific
61 Sea Breeze Avenue
Rancho Palos Verdes, California 90275
310. 544. 8670

Design Architect
Wenell Mattheis Bowe
246 E. Main Street
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Structural Engineer
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113 West 8th Avenue, Suite A
Chico, California 95926
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Civil Engineer
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4045 Coronado Avenue
Stockton, California
209. 943. 2021

Plumbing Designer - Design/Builder HRM Plumbing 3650 Wilcox Road Stockton, California 9xxxx 209. 931. 9650

Electrical Designer - Design/Builder Collins Electrical 611 W. Fremont Street Stockton, California 92503 **209. 466. 3691**

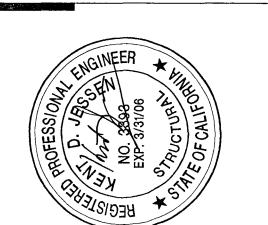
Mechanical Designer - Design/Builder
Comfort Air
1607 Turnpike Road
Stockton, California 95201
209. 466. 4601

to 1-21/05

CONSTRUCTION DOCUMENTS

PEVISIONS:

9/21/04 PERMIT SET



PARTIAL PLANS

DATE

6/29/04

3/32" = T-0"

CHECKED BY

MDN

DRAWING NO.

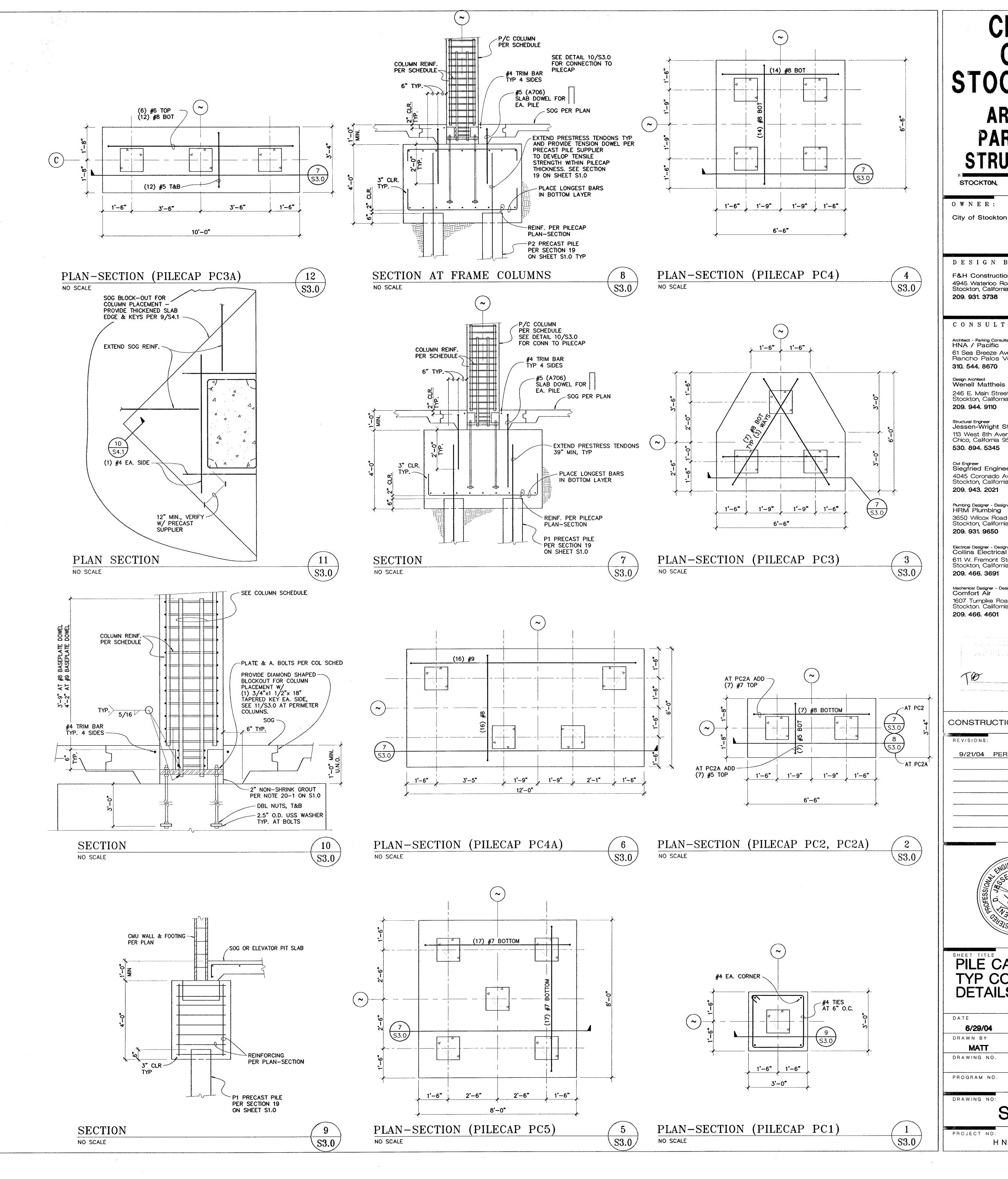
SHEET

PROGRAM NO.

R-NO.

DRAWING NO:
S2.10

PROJECT NO: H N A 2319



STOCKTON **ARENA PARKING**

CALIFORNIA STOCKTON,

DESIGN BUILDER:

F&H Construction 4945 Waterloo Road Stockton, California 95215

CONSULTANTS:

Architect - Parking Consultant HNA / Pacific 61 Sea Breeze Avenue Rancho Palos Verdes, California 90275

Design Architect
Wenell Mattheis Bowe 246 E. Main Street Stockton, California 95202

Structural Engineer Jessen-Wright Structural Engineers 113 West 8th Avenue, Suite A Chico, California 95926

CMI Engineer
Siegfried Engineering, Inc. 4045 Coronado Avenue

Plumbing Designer - Design/Builder HRM Plumbing 3650 Wilcox Road Stockton, California 9xxxx 209. 931. 9650

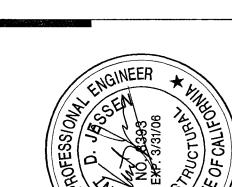
Electrical Designer - Design/Builder Collins Electrical 611 W. Fremont Street Stockton, California 92503 209. 466. 3691

Mechanical Designer - Design/Builder Comfort Air 1607 Turnpike Road Stockton. California 95201

CONSTRUCTION DOCUMENTS

REVISIONS:

9/21/04 PERMIT SET

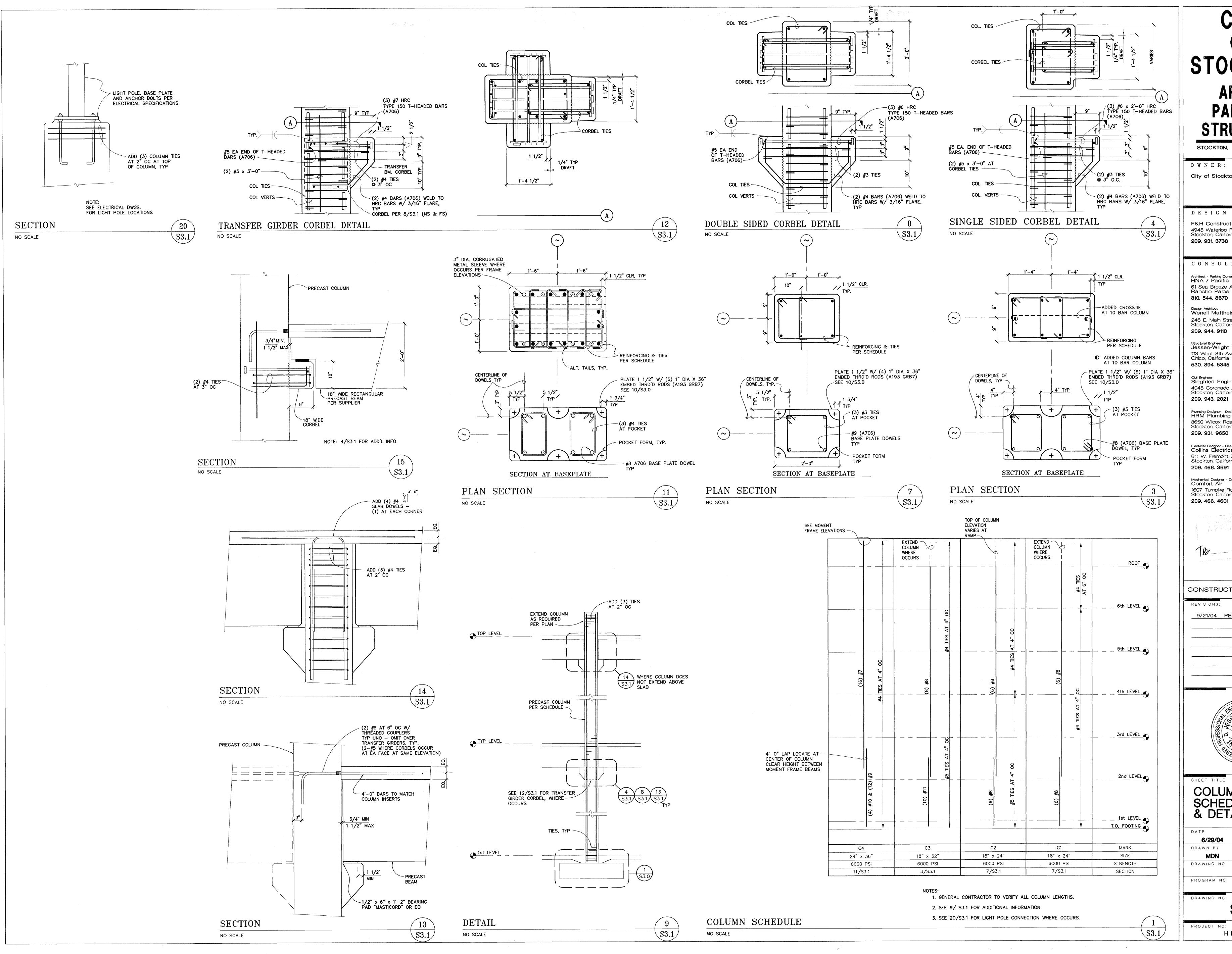


PILE CAPS & TYP CONCRETE DETAILS

DATE	SCALE
6/29/04	NONE
DRAWN BY	CHECKED BY
MATT	
DRAWING NO.	SHEET
PROGRAM NO.	R-NO.

S3.0

HNA 2319



STOCKTON **ARENA PARKING**

STOCKTON, CALIFORNIA

City of Stockton

DESIGN BUILDER:

F&H Construction 4945 Waterloo Road Stockton, California 95215

CONSULTANTS:

Architect - Parking Consultant HNA / Pacific 61 Sea Breeze Avenue Rancho Palos Verdes, California 90275

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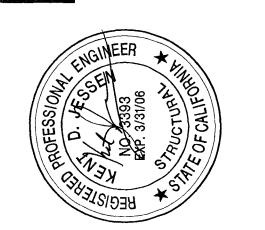
Electrical Designer - Design/Builder Collins Electrical 611 W. Fremont Street Stockton, California 92503

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CONSTRUCTION DOCUMENTS

REVISIONS:

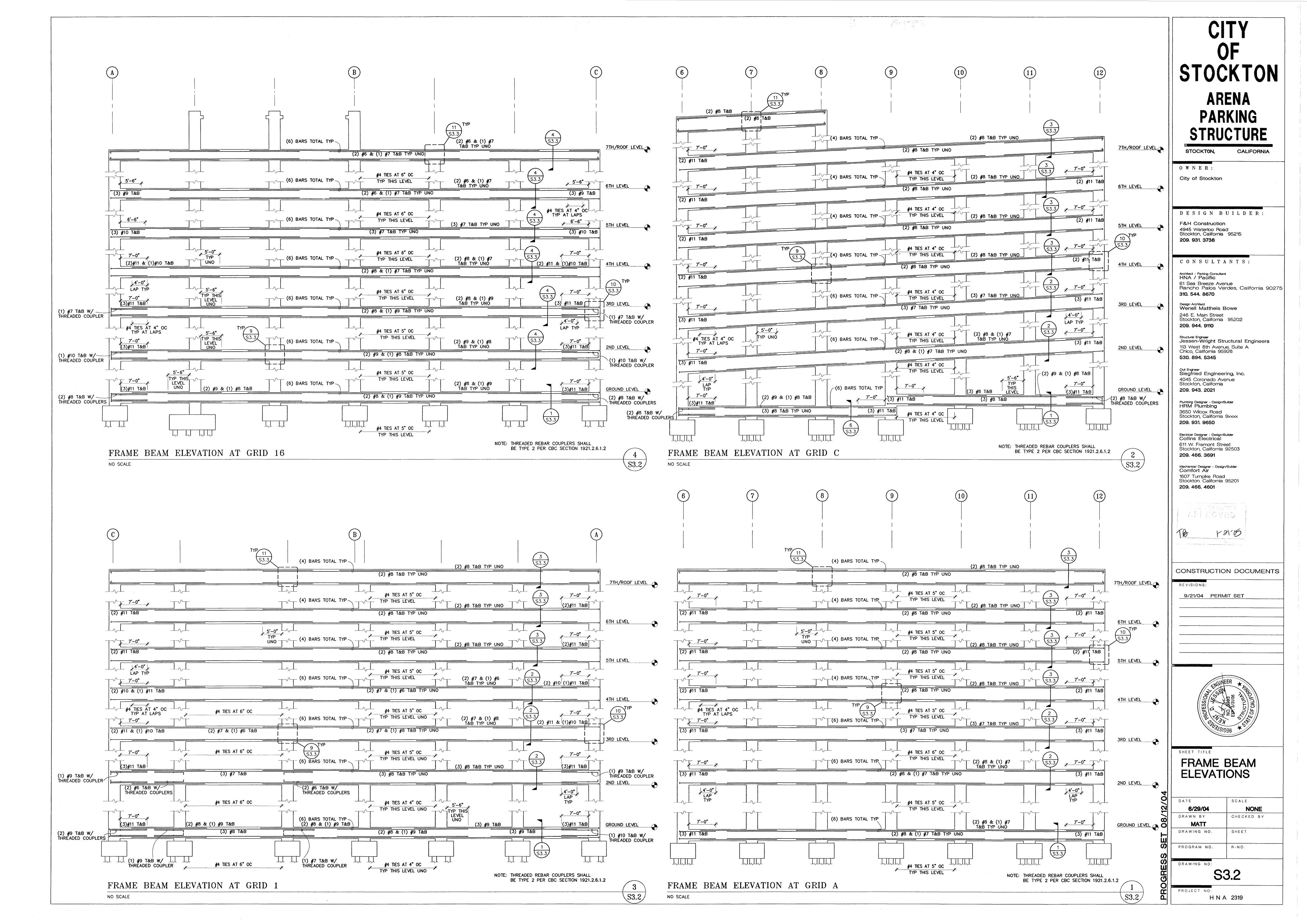
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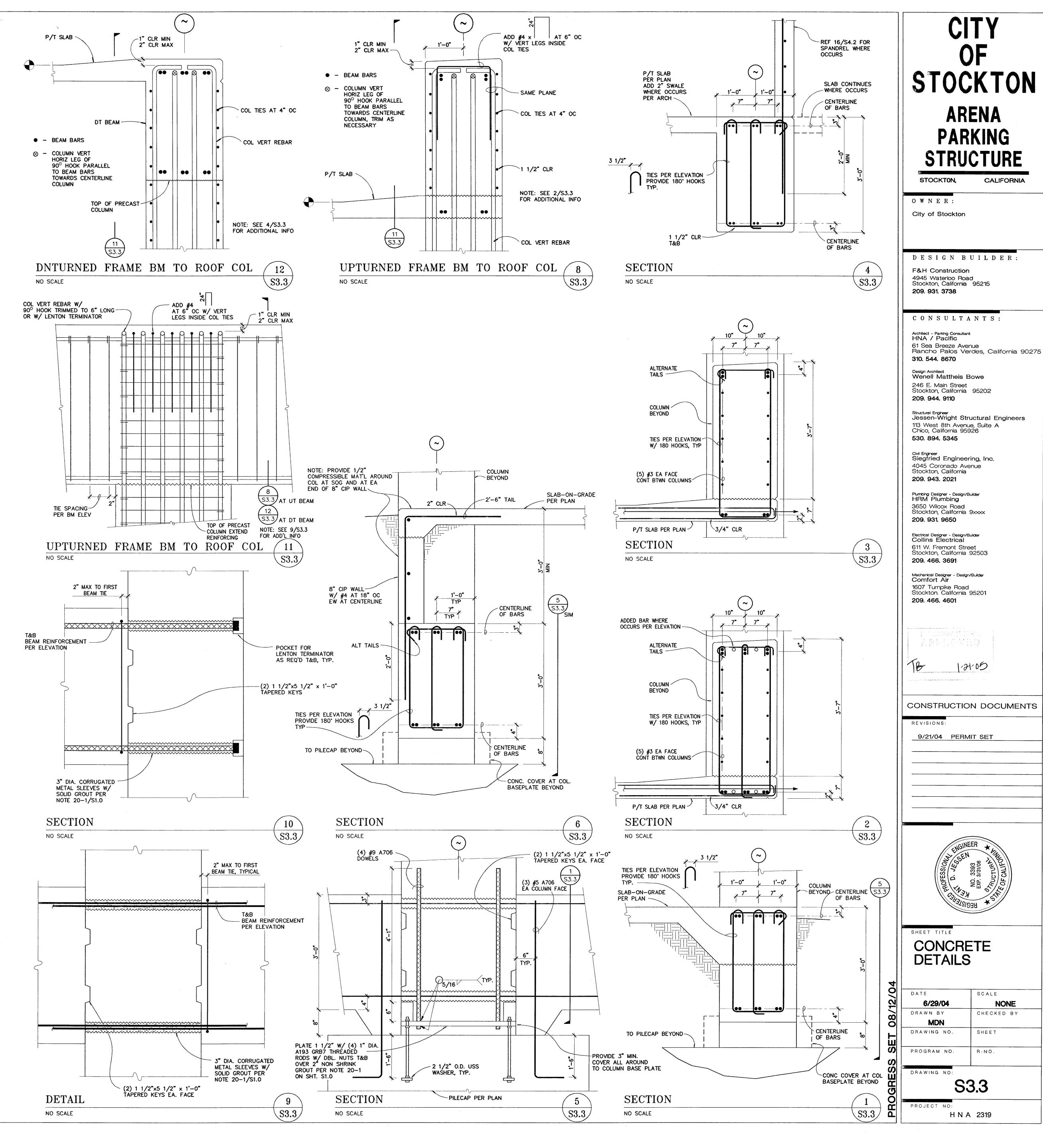


SHEET TITLE COLUMN SCHEDULE & DETAILS

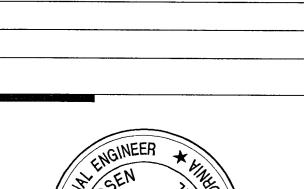
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S3.1

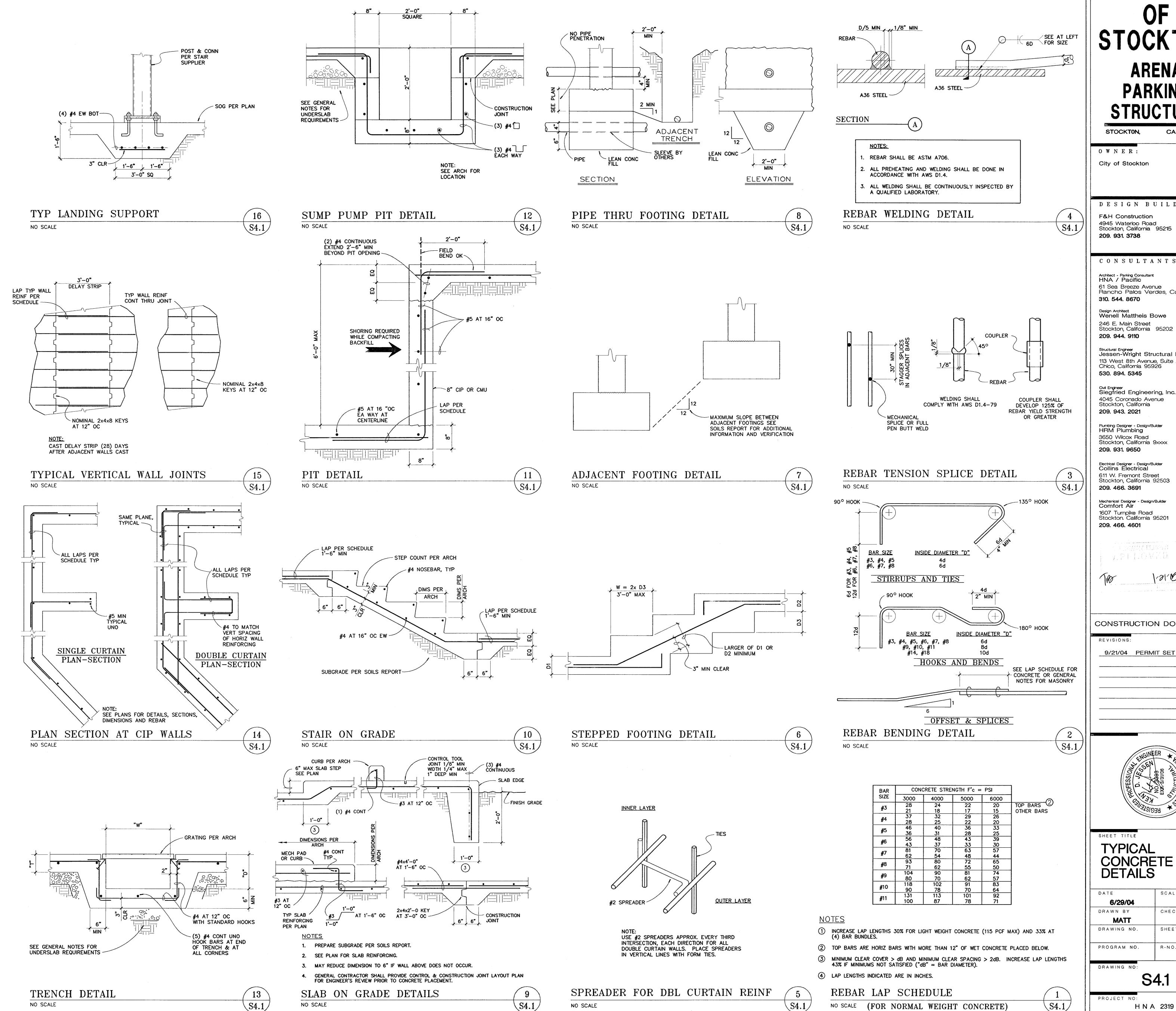




STOCKTON



DATE	SCALE
6/29/04	NONE
DRAWN BY	CHECKED BY
MDN	
DRAWING NO.	SHEET
PROGRAM NO.	R-NO.
DRAWING NO:	



STOCKTON **ARENA PARKING**

STOCKTON, CALIFORNIA

OWNER:

City of Stockton

DESIGN BUILDER: F&H Construction

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CONSTRUCTION DOCUMENTS

REVISIONS:

9/21/04 PERMIT SET

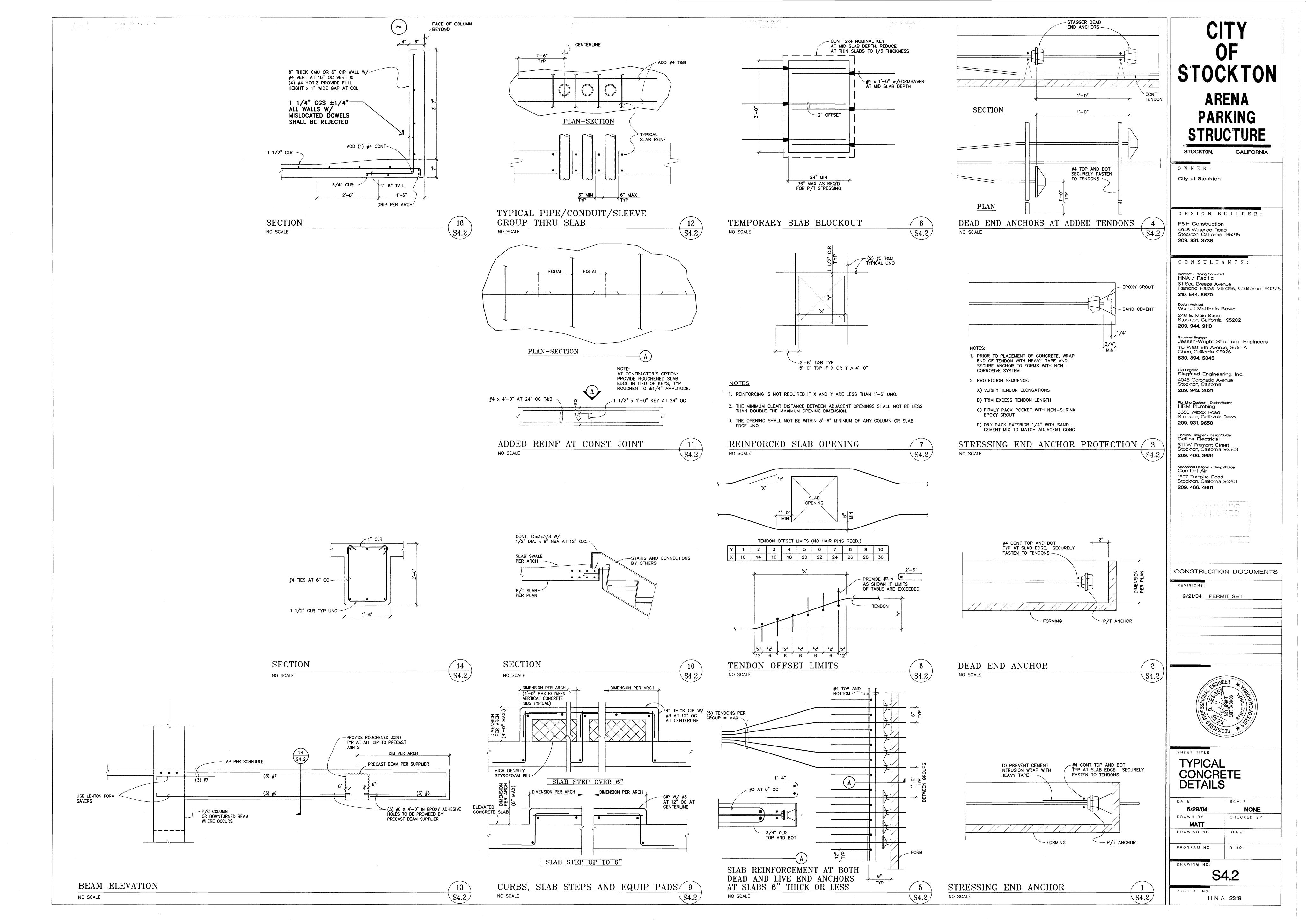
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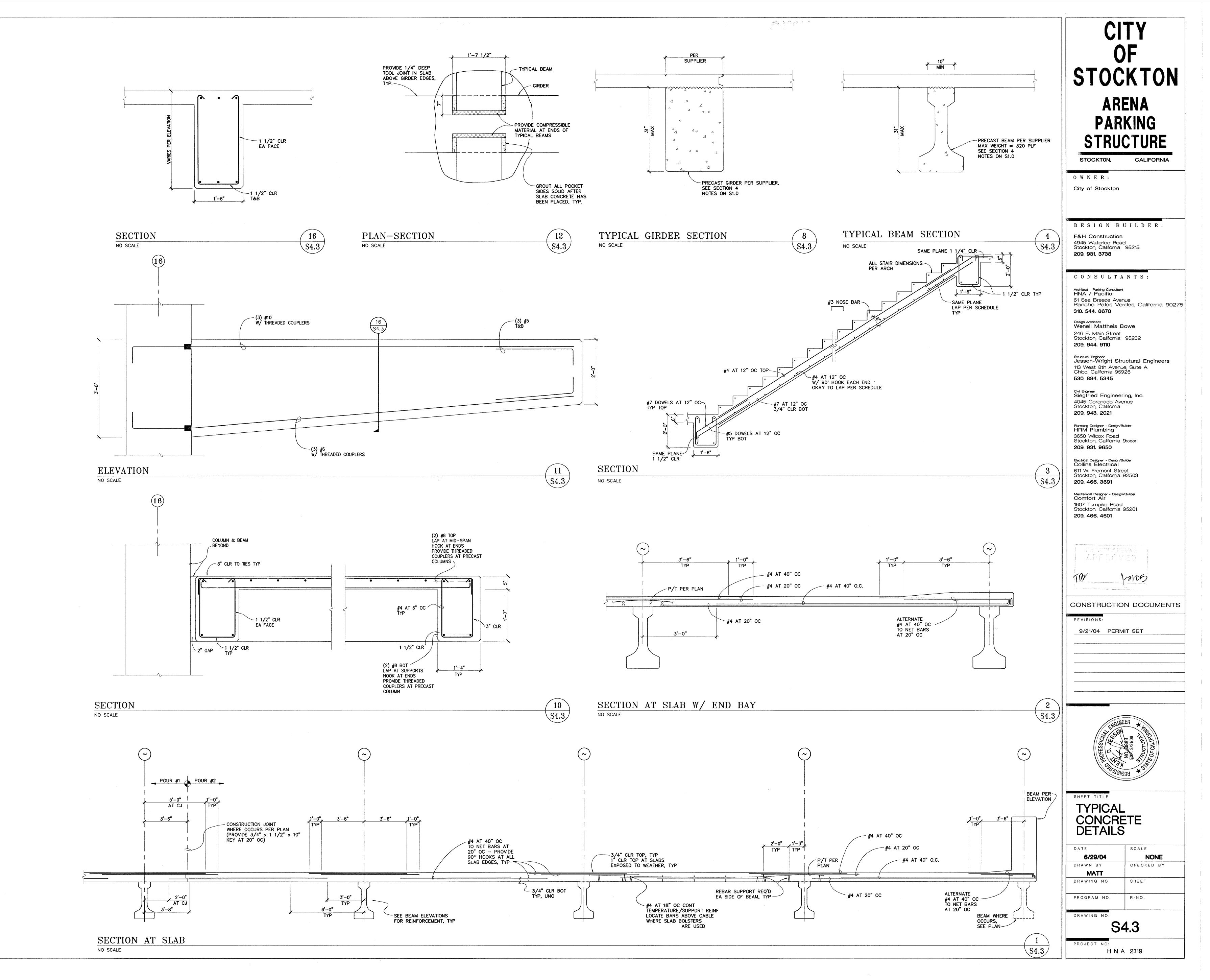
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CHECKED BY
SHEET

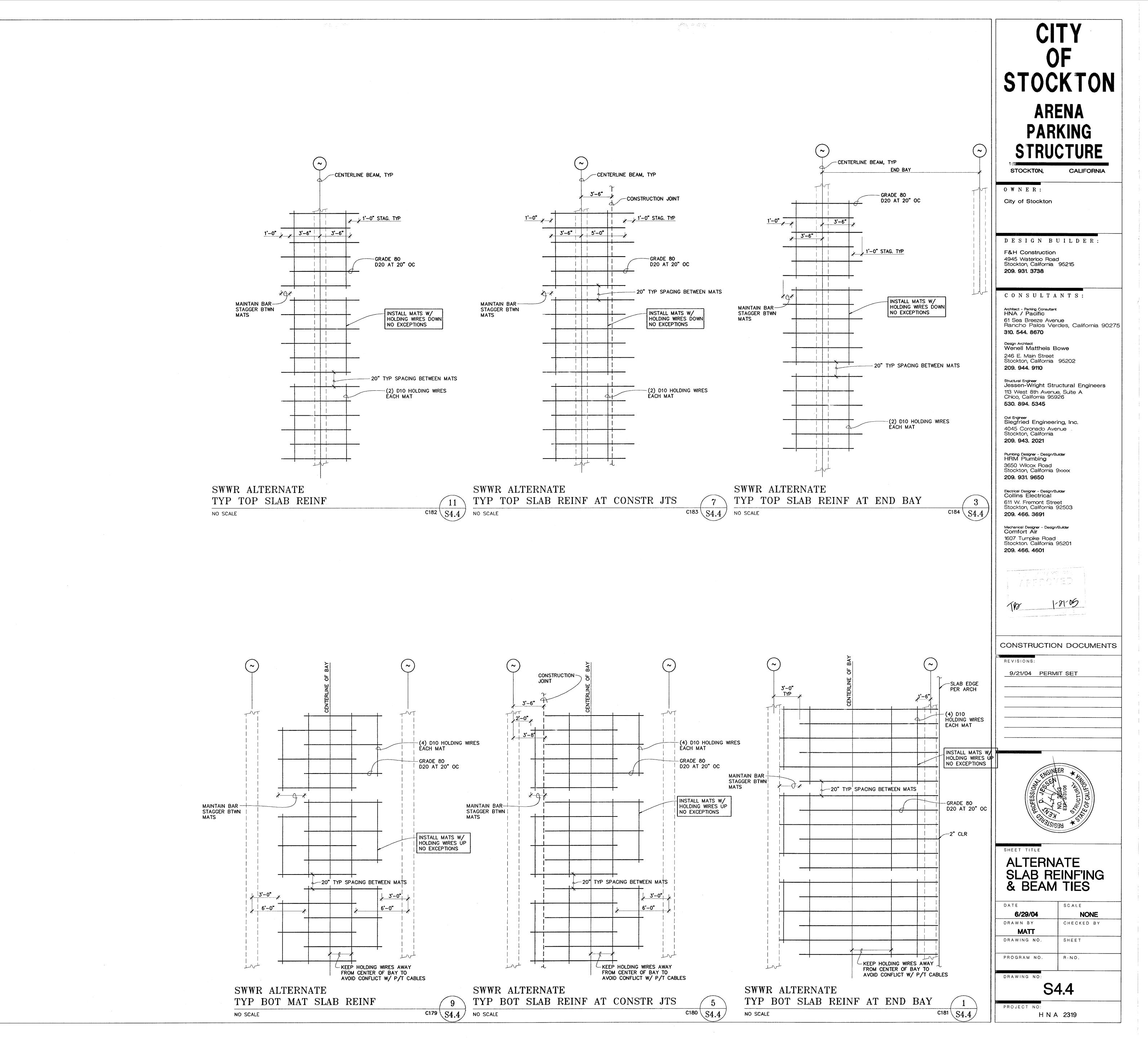
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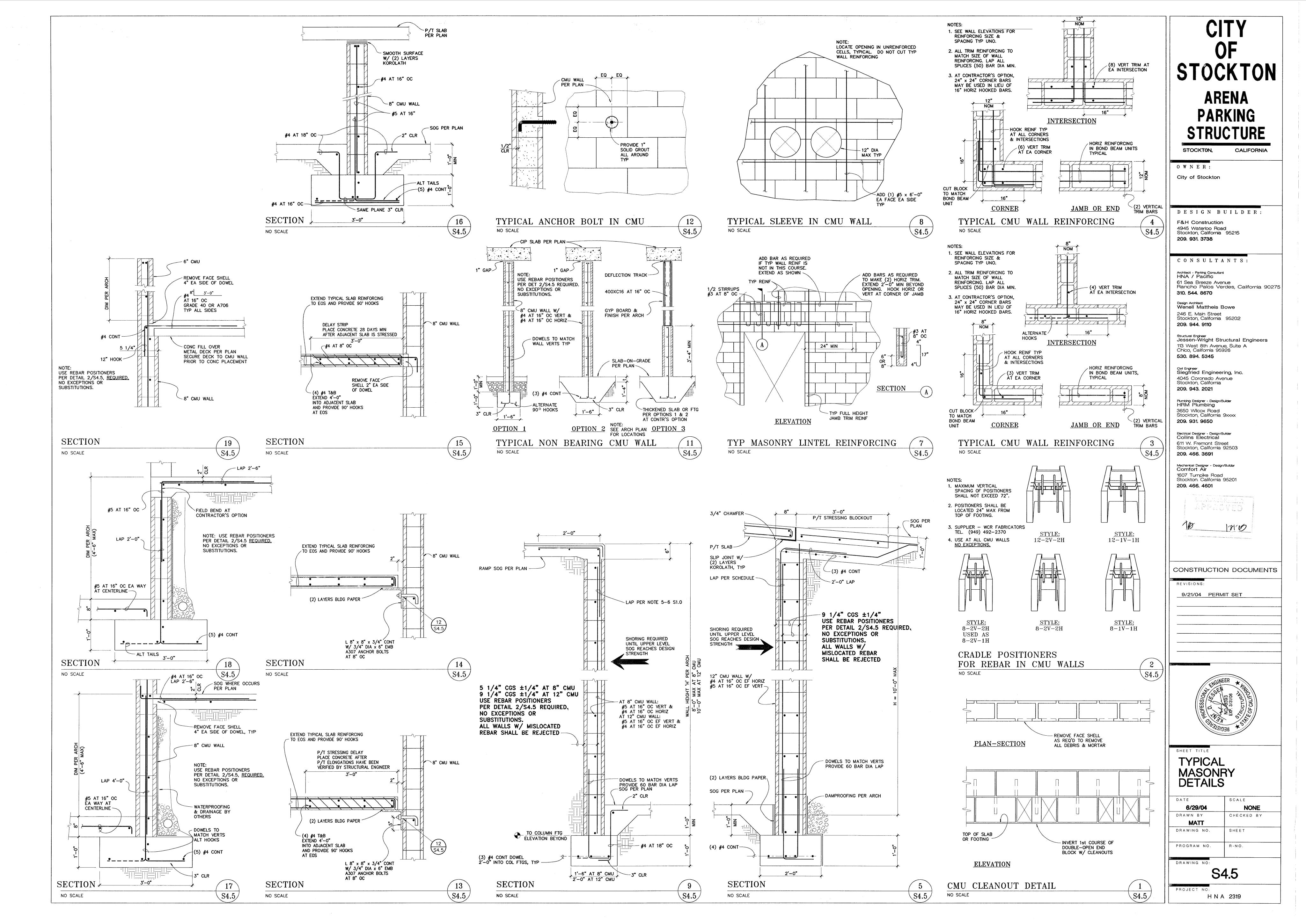
R-NO.

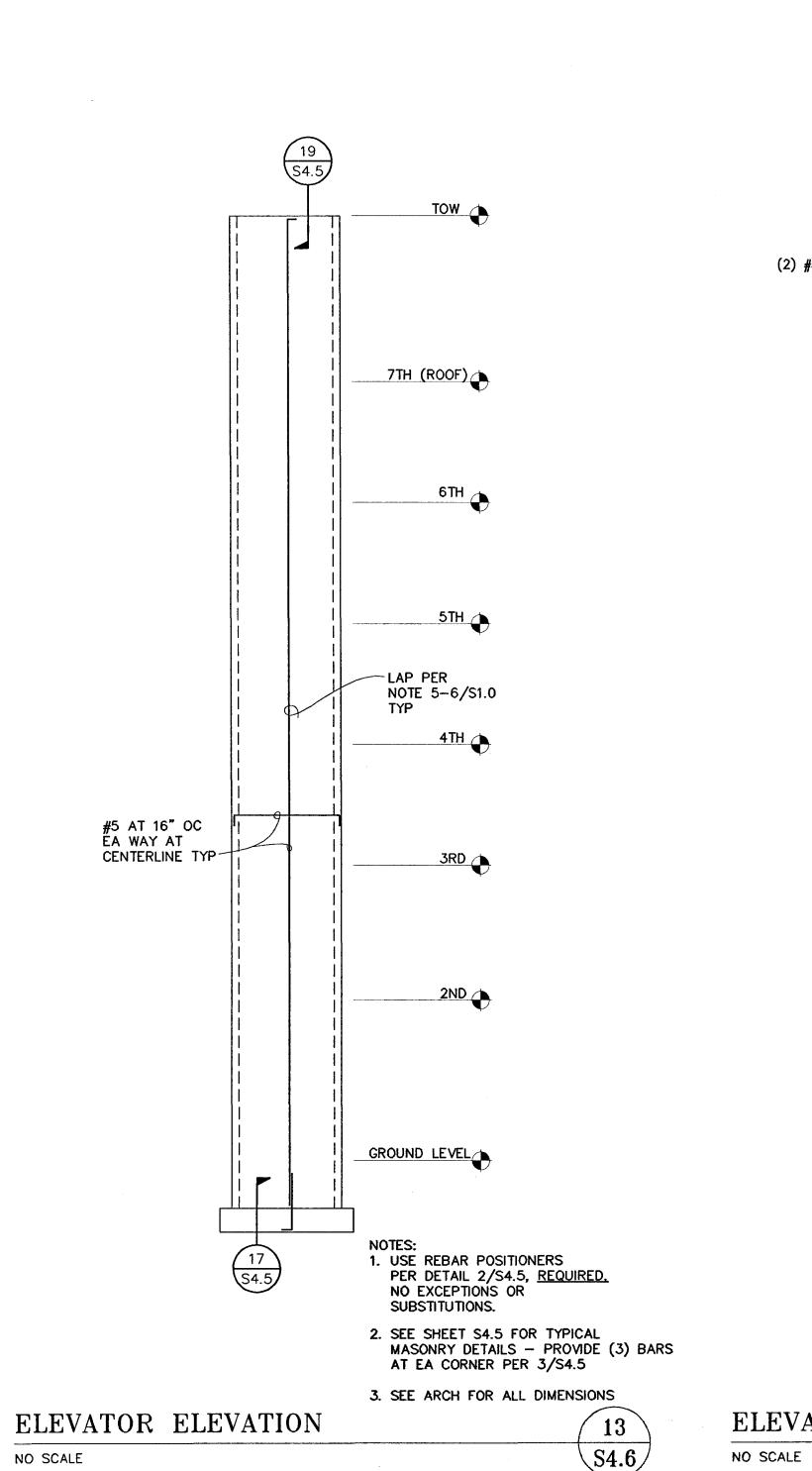
PROJECT NO: H N A 2319

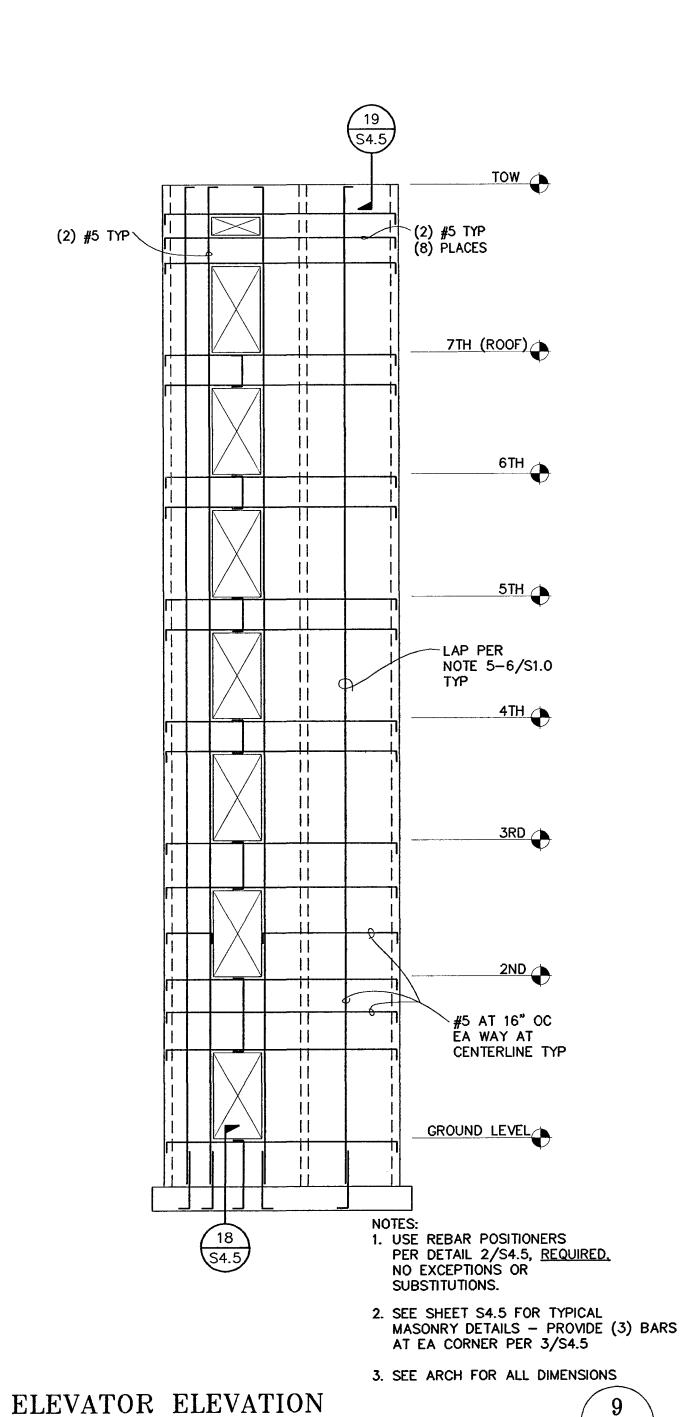


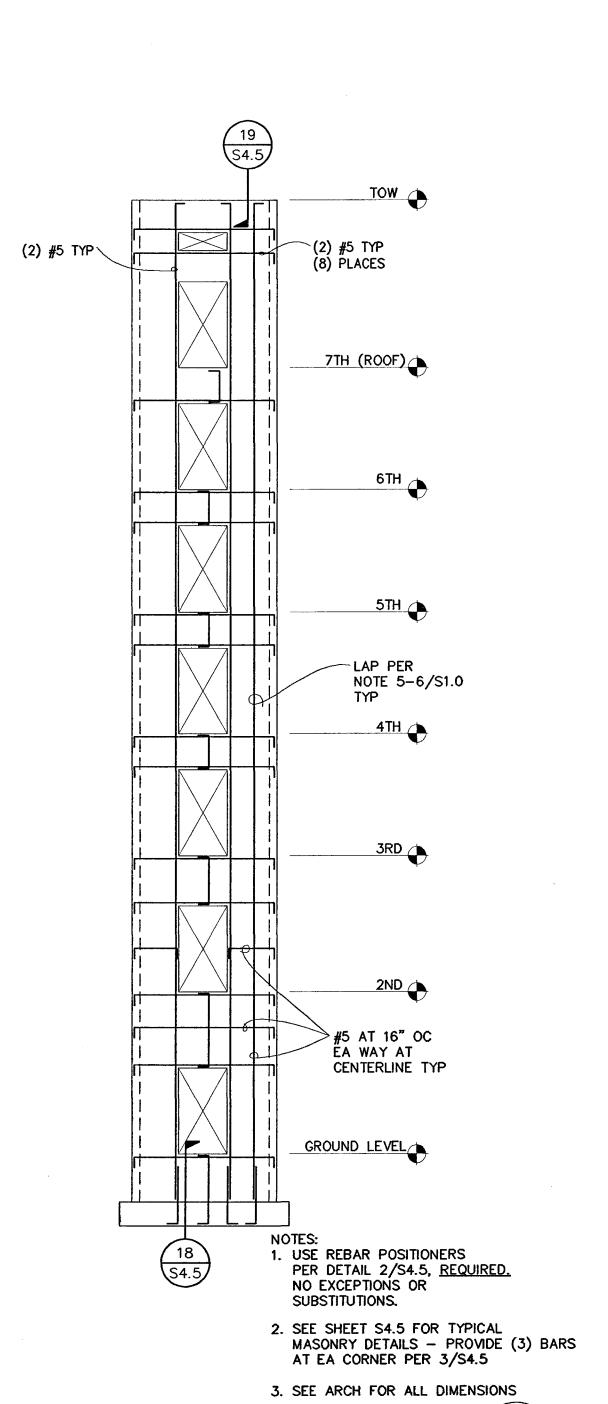


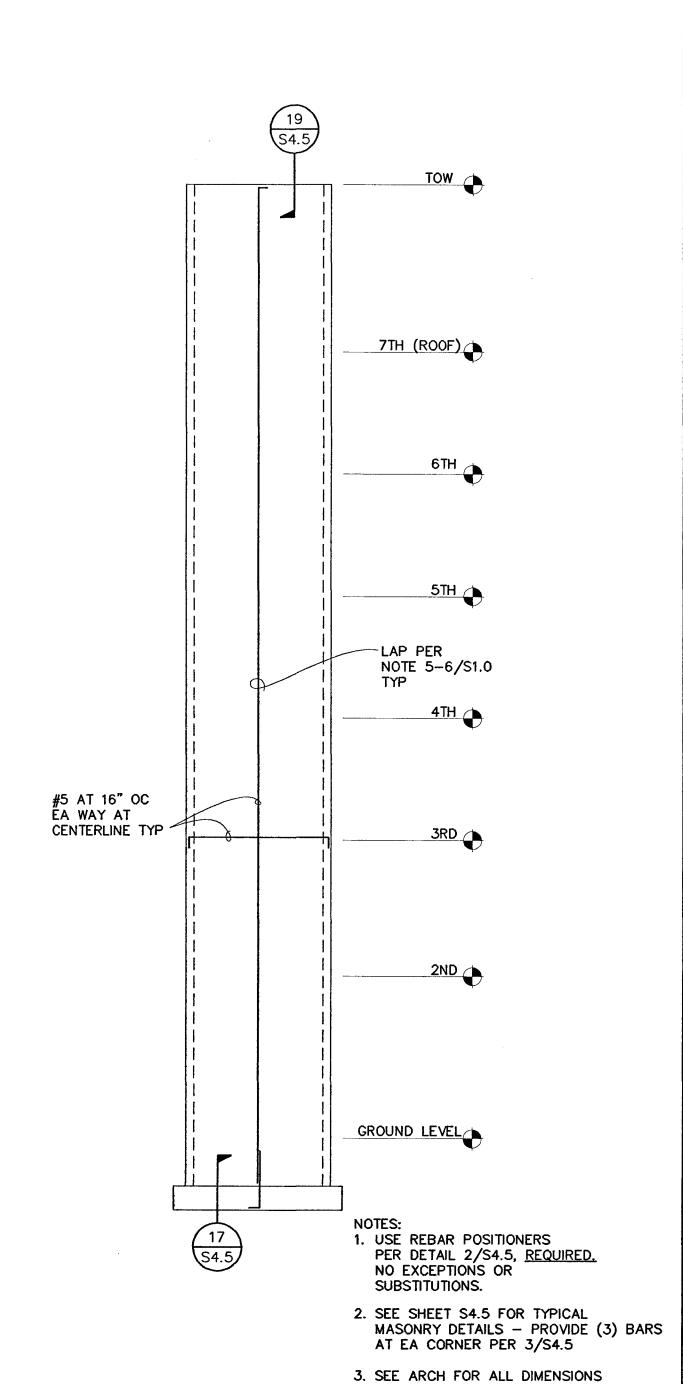


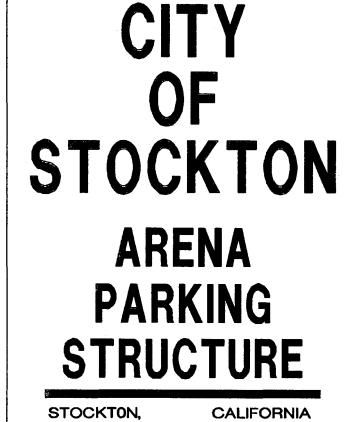












OWNER: City of Stockton

DESIGN BUILDER:

F&H Construction

4945 Waterloo Road Stockton, California 95215 209. 931. 3738

CONSULTANTS: Architect - Parking Consultant HNA / Pacific 61 Sea Breeze Avenue Rancho Palos Verdes, California 90275

Design Architect Wenell Mattheis Bowe 246 E. Main Street Stockton, California 95202 209. 944. 9110

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Civil Engineer Siegfried Engineering, Inc. 4045 Coronado Avenue 209. 943. 2021

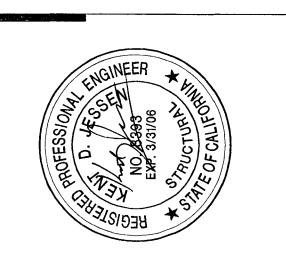
Plumbing Designer - Design/Builder HRM Plumbing 3650 Wilcox Road Stockton, California 9xxxx 209. 931. 9650

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Mechanical Designer - Design/Builder Comfort Air 1607 Turnpike Road Stockton. California 95201 209. 466. 4601

CONSTRUCTION DOCUMENTS

REVISIONS: 9/21/04 PERMIT SET



SHEET TITLE **ELEVATOR WALL ELEVATIONS**

SCALE 3/32° = 1-0° 6/29/04 DRAWN BY CHECKED BY MDN DRAWING NO. SHEET PROGRAM NO. R-NO.

DRAWING NO: **S4.6**

PROJECT NO: H N A 2319

S4.6 NO SCALE

ELEVATOR ELEVATION

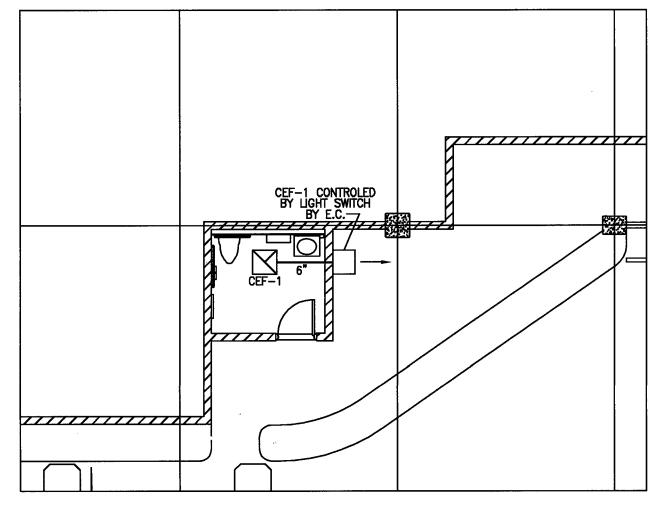
\S4.6/

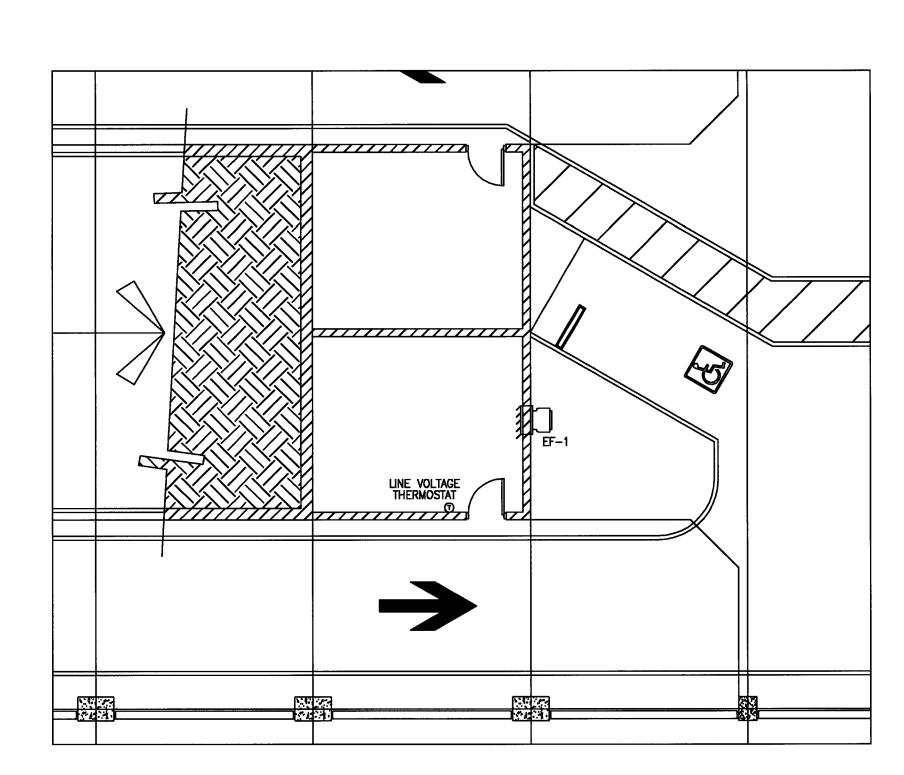
ELEVATOR ELEVATION NO SCALE

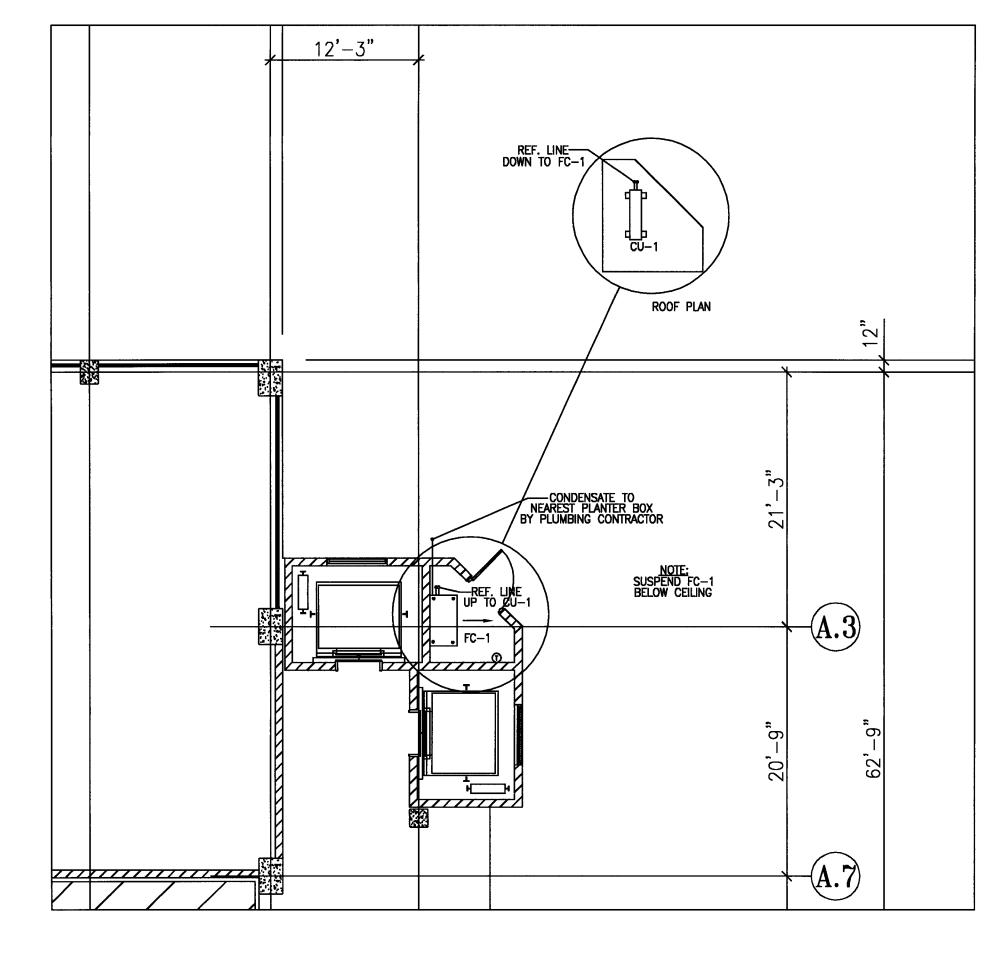
 $\backslash S4.6$

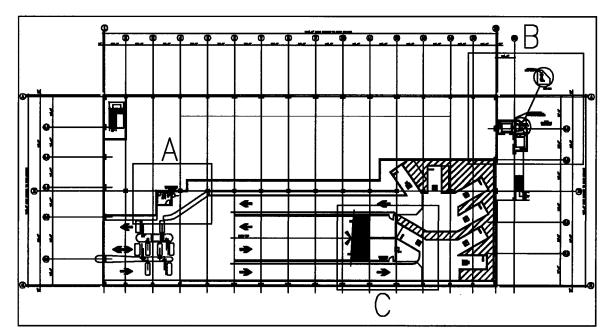
		Н	VAC	SCH	HEDUI	E		
MARK	MAKE MODEL	DESC.	CFM ESP-1.0"	CAPACITIES HEAT MBH IN/OUT	COOL MBH TOT/SENS	AMB 100	ELEC. ITEM QTY VOLT PH	REMARKS Opr wt.
FC-1	MITUSHUI PC24EK	CEILING SUS. SPLIT SYSTEM	425 -	_	_		FLA= 1.8 115-10-60 MCA= 15.2	_ 93#
CU-1	MITUSHUI PU24EK	ROOF TOP SPLIT SYSTEM	N/A -	_	<u> </u>		FLA= 1.3 208/230-1¢-60 MCA= 15.2	_ 207#

		EXHA	UST	F	AN	SC	HEDULE		
MARK	MAKE	DESC.		CAPA	CITY		ELECTRICAL	ACCESSORIES	OP WT
IVIZALALA	MODEL		CFM	"SP.	RPM	SONE	CHARACTERISTIC	CONTROLS	
CEF-1	BROAN HD80	CEILING EX. FAN	31	.250	1070	3.0	- HP 115V 0.4 AMP	_	7.1#
EF-1	DAYTON HZ38	WALL MOUNT EX. FAN	548	.250	1100	4.8	1/20HP 115V 1.0 AMP	_	41#









SCALE: 1/64"=1'-0"

HVAC Notes

1. Furnish and install all ductwork in accordance with the latest

editions of SMACNA duct construction standards. 2. All pipes, ductwork and conduit shall be installed and seismicaly

braced per SMACNA's Seismic Restraint Guidelines.

3. All contractor furnished equipment installation and startup instructions shall be kept with the piece of equipment in weatherproof pouches until final inspection. After final inspection, three sets of operation, installation, maintenance and start-up instructions shall be given to the Owner for each piece of equipment.

4. All penetrations through fire rated assemblies shall be firestopped and sealed with a material that meets or exceeds the 'T' rating of the assembly penetrated. Material to be used for sealing shall be coordinated with the General Contractor.

5. Install all pipe and duct insulation materials per T-24 requirements. All material to be installed shall meet UBC flame and smoke requirements. 6. All work on this project shall conform to the following codes:

2001 UBC w/ California amendments 2001 UPC w/ California amendments 2001 UMC w/ California amendments

2001 NEC w/ California amendments

7. All wye branches connected to a diffuser, grille or register shall have a manual volume damper installed in the wye branch. OBD's shall only be used when wye branches will be installed over inaccessible ceiling areas or in the slab of the building. Dampers shall be fabricated of the same gauge as the duct with 1" standoff, locking quadrant, and handle. Fasten red ribbon to handle to mark location.

8. All exposed ductwork shall be GI pipe and fittings. Line all rectangular duct with insulation materials with a Flame spread=25 and smoke=50.

9. Cut back roof as required to install blocking. Patch to match existing. Remove sheeting plywood and replace to install blocking. Attach curbs to roof blocking w/ 3/8" lags . 48″ □C.

T-24 MANDATORY FEATURES

EQUIPMENT CERTIFIED TO MINIMUM EFFICIENCY M-0 CONTROL EQUIPMENT CERTIFIED TO 119.d AND 121.c.1 N/A PILOT LIGHTS PROHIBITED PER 115 N/A VENTILATION REQUIRMENTS PER 121.b,c&d M-1 AIR BALANCE

NATURAL VENTILATION PER 121.b.1 N/A CONTROLS MEET REQUIREMENTS 122. M-0, See Notes.

SHUT DOWN AND BACKDRAFT DAMPERS PER 122.f See schedules on M-0

ISOLATION AREA DEVICES PER 122.g N/A

PIPE INSULATION PER 123.g NA

REQUIREMENTS FOR DUCTS AND PLENUMS PER 124 M-0, SPECIFICATIONS

STOCKTON **ARENA**

STOCKTON, CALIFORNIA

OWNER:

City of Stockton

DESIGN BUILDER:

F&H Construction 4945 Waterloo Road Stockton, California 95215 209. 931. 3738

CONSULTANTS:

Architect - Parting Consultant HNA / Pacific 61 Sea Breeze Avenue Rancho Palos Verdes, California 90275 310. 544. 8670

246 E. Main Street Stockton, California 95202 209. 944. 9110

113 West 8th Avenue, Suite A Chico, California 95926 530. 894. 5345

CM Eigher Siegiried Engineering, Inc. 4045 Coronado Avenue Stockton, California 95204

3650 Wiloox Road Stockton, California 95215

611 W. Fremont Street Stockton, California 92503 209. 466. 3691

CONST. DOCUMENTS

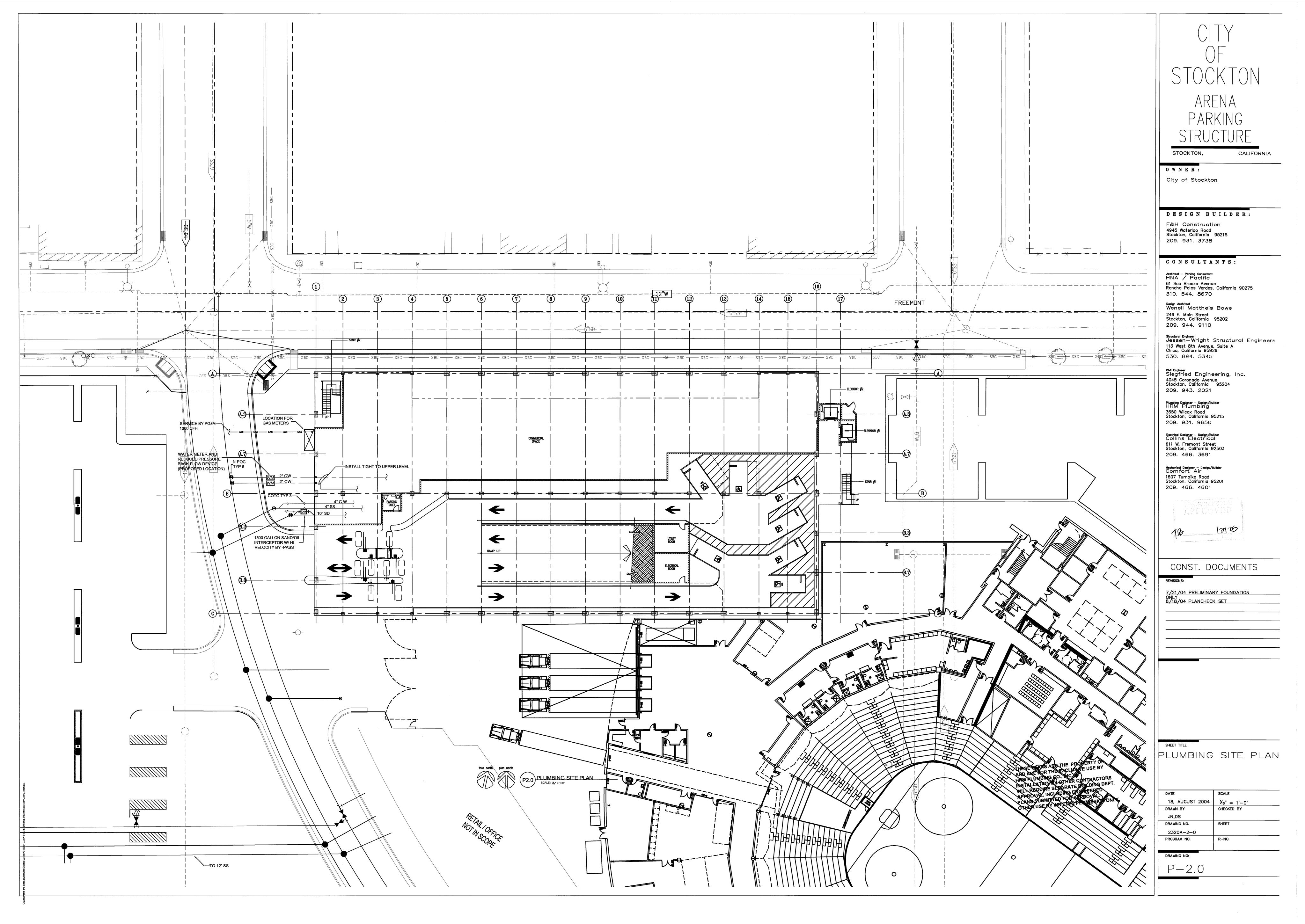
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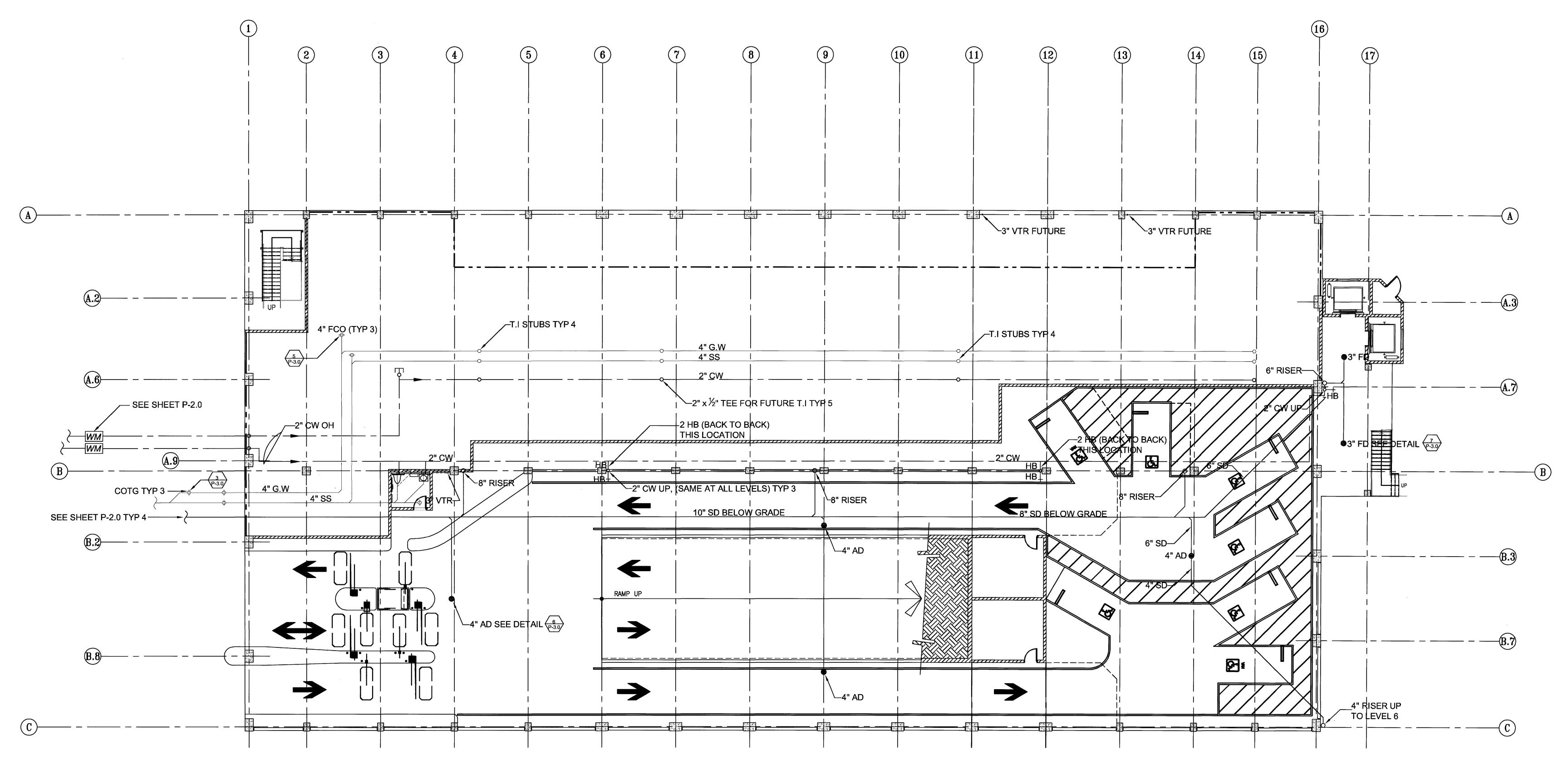
SHEET TITLE

SCALE 7/30/04 AS NOTED CHECKED BY DRAWN BY D. CHAVEZ DRAWING NO. SHEET PROGRAM NO. R-NO.

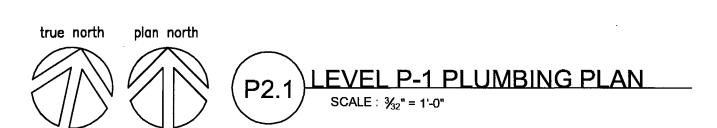
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DRAWING NO: PROJECT NO: HNA 2320





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OF STOCKTON ARENA PARKING STRUCTURE STOCKTON, CALIFORNIA

OWNER:

City of Stockton

209. 931. 3738

DESIGN BUILDER:
F&H Construction
4945 Waterloo Road
Stockton, California 95215

CONSULTANTS:

Architect - Parking Consultant
HNA / Pacific
61 Sea Breeze Avenue
Rancho Palos Verdes, California 90275
310. 544. 8670

Design Architect
Wenell Mattheis Bowe
246 E. Main Street
Stockton, California 95202
209. 944. 9110

Structural Engineer
Jessen—Wright Structural Engineers
113 West 8th Avenue, Suite A
Chico, California 95926
530. 894. 5345

CIVIL Engineer
Siegfried Engineering, Inc.
4045 Coronado Avenue
Stockton, California 95204
209. 943. 2021

Plumbing Designer – Design/Builder HRM Plumbing 3650 Wilcox Road Stockton, California 95215 209. 931. 9650

Electrical Designer - Design/Builder Collins Electrical 611 W. Fremont Street Stockton, California 92503 209. 466. 3691

Mechanical Designer — Design/Builder Cornfort Air 1607 Turnpike Road Stockton. California 95201 209. 466. 4601

To 12105

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7/21/04

7/21/04 PRFLIMINARY FOUNDATION
ONLY
8/18/04 PLANCHECK SET

HEET TITLE

LEVEL P-1 PLUMBING PLAN

DATE

18, AUGUST 2004

3/32" = 1'-0"

DRAWN BY

CHECKED BY

JN,DS

DRAWING NO.

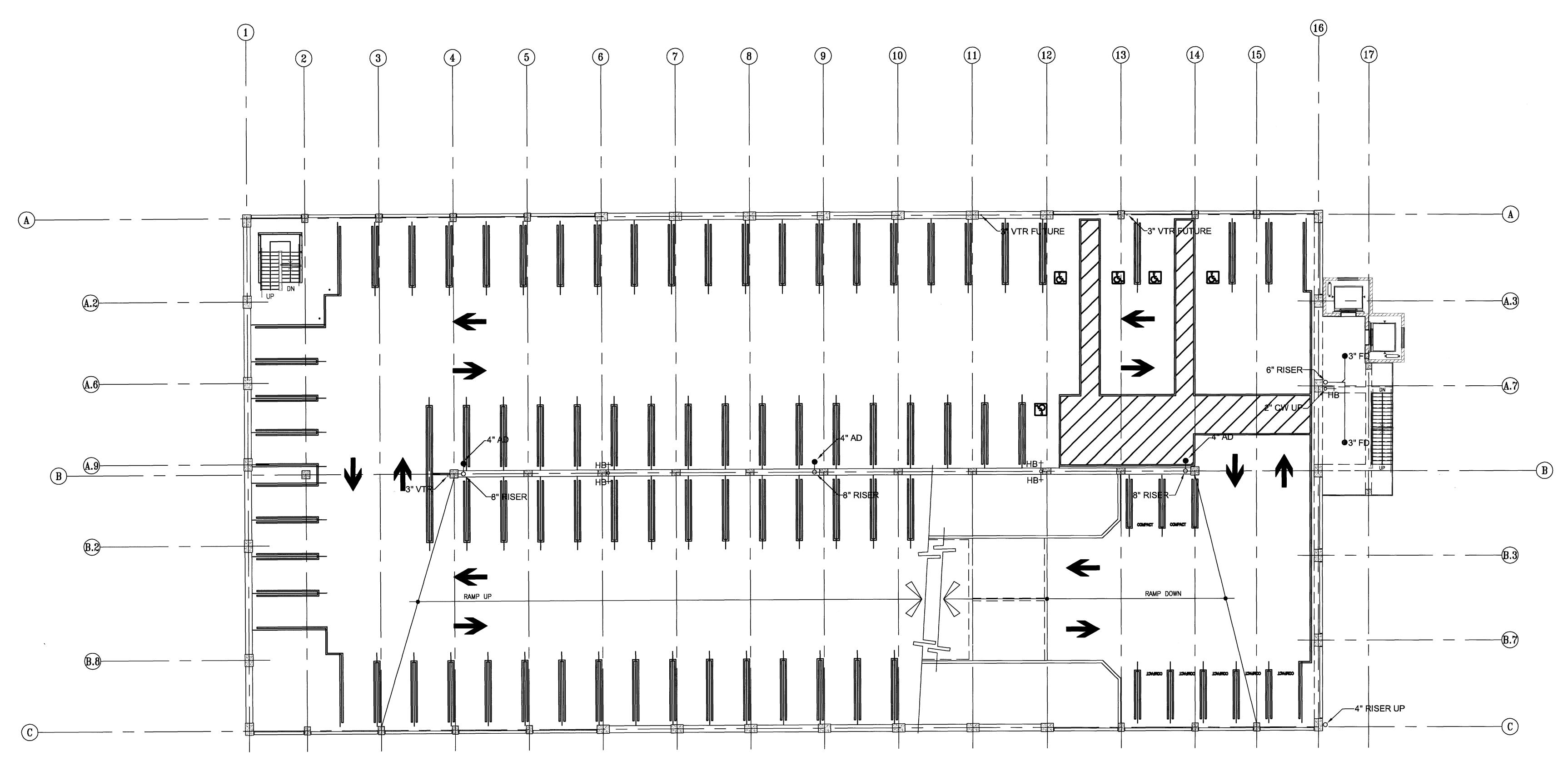
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2320A-2-1

PROGRAM NO.

R-NO.

P-2.1



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STOCKTON, CALIFORNIA

OWNER:

City of Stockton

DESIGN BUILDER:

F&H Construction 4945 Waterloo Road Stockton, California 95215 209. 931. 3738

CONSULTANTS:

Architect - Parking Consultant HNA / Pacific 61 Sea Breeze Avenue Rancho Palos Verdes, California 90275 310. 544. 8670

Design Architect Wenell Mattheis Bowe 246 E. Main Street Stockton, California 95202 209. 944. 9110

Structural Engineer
Jessen—Wright Structural Engineers
113 West 8th Avenue, Suite A
Chico, California 95926 530. 894. 5345

Civil Engineer
Siegfried Engineering, Inc.
4045 Coronado Avenue
Stockton, California 95204 209. 943. 2021

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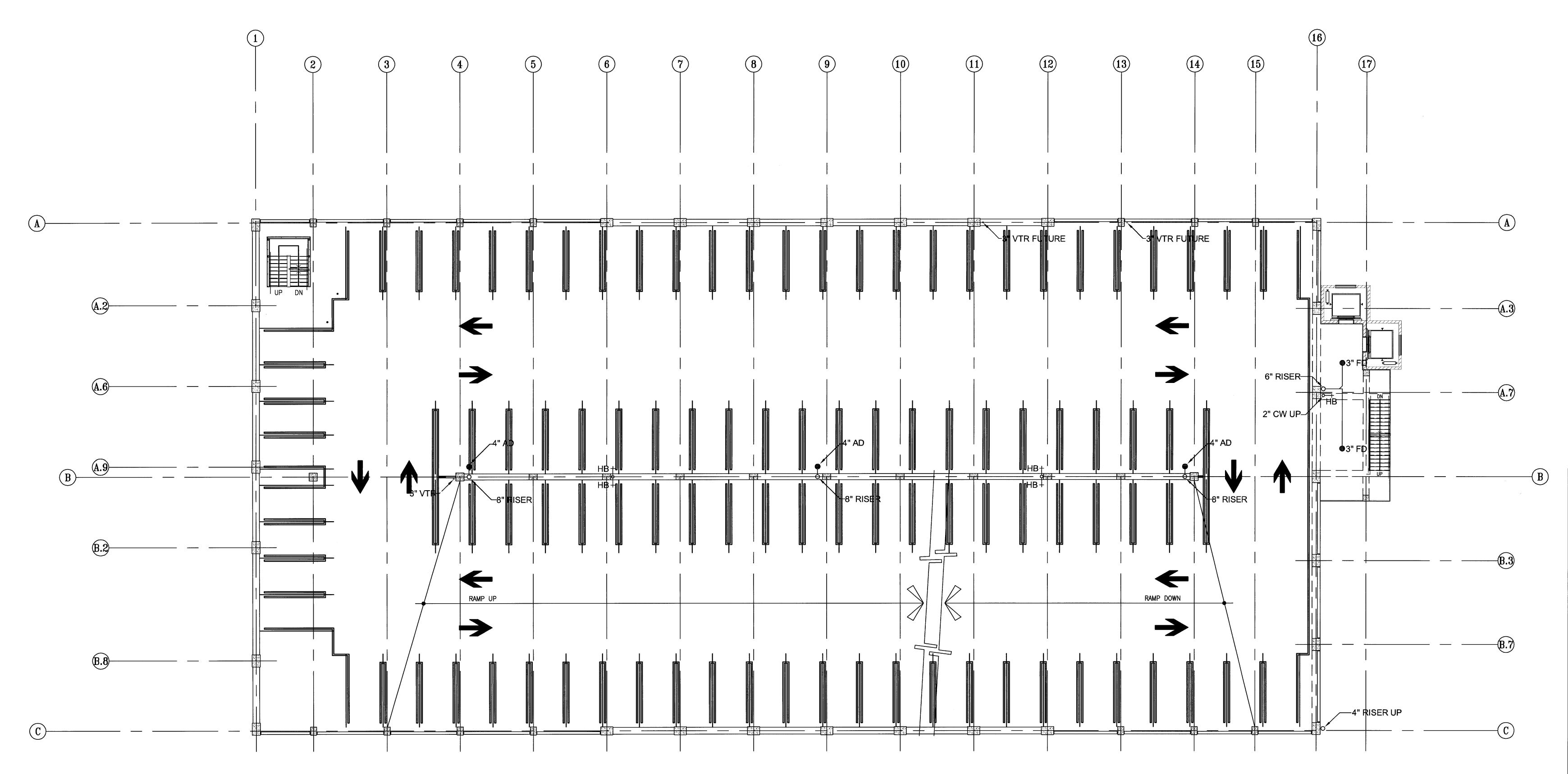
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ONLY
8/18/04 PLANCHECK SET

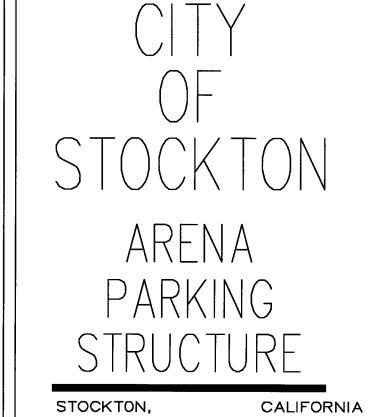
SHEET TITLE

PLUMBING PLAN

SCALE $\frac{3}{32}$ " = 1'-0" 18, AUGUST 2004 CHECKED BY DRAWN BY JN,DS SHEET DRAWING NO. 2320A-2 PROGRAM NO. R-NO.



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F&H Construction 4945 Waterloo Road Stockton, California 95215 209. 931. 3738

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Architect - Parking Consultant
HNA / Pacific
61 Sea Breeze Avenue
Rancho Palos Verdes, California 90275
310. 544. 8670

Design Architect
Wenell Mattheis Bowe
246 E. Main Street
Stockton, California 95202
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Chico, California 95926
530. 894. 5345

Civil Engineer
Siegfried Engineering, Inc.
4045 Coronado Avenue
Stockton, California 95204
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1607 Turnpike Road Stockton. California 95201 209. 466. 4601

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8/18/04 PLANCHECK SET

LEVEL P3-P5
PLUMBING PLAN

DATE

18, AUGUST 2004

332" = 1'-0"

DRAWN BY

CHECKED BY

JN,DS

DRAWING NO.

SHEET

2320A-2-3

PROGRAM NO.

R-NO.

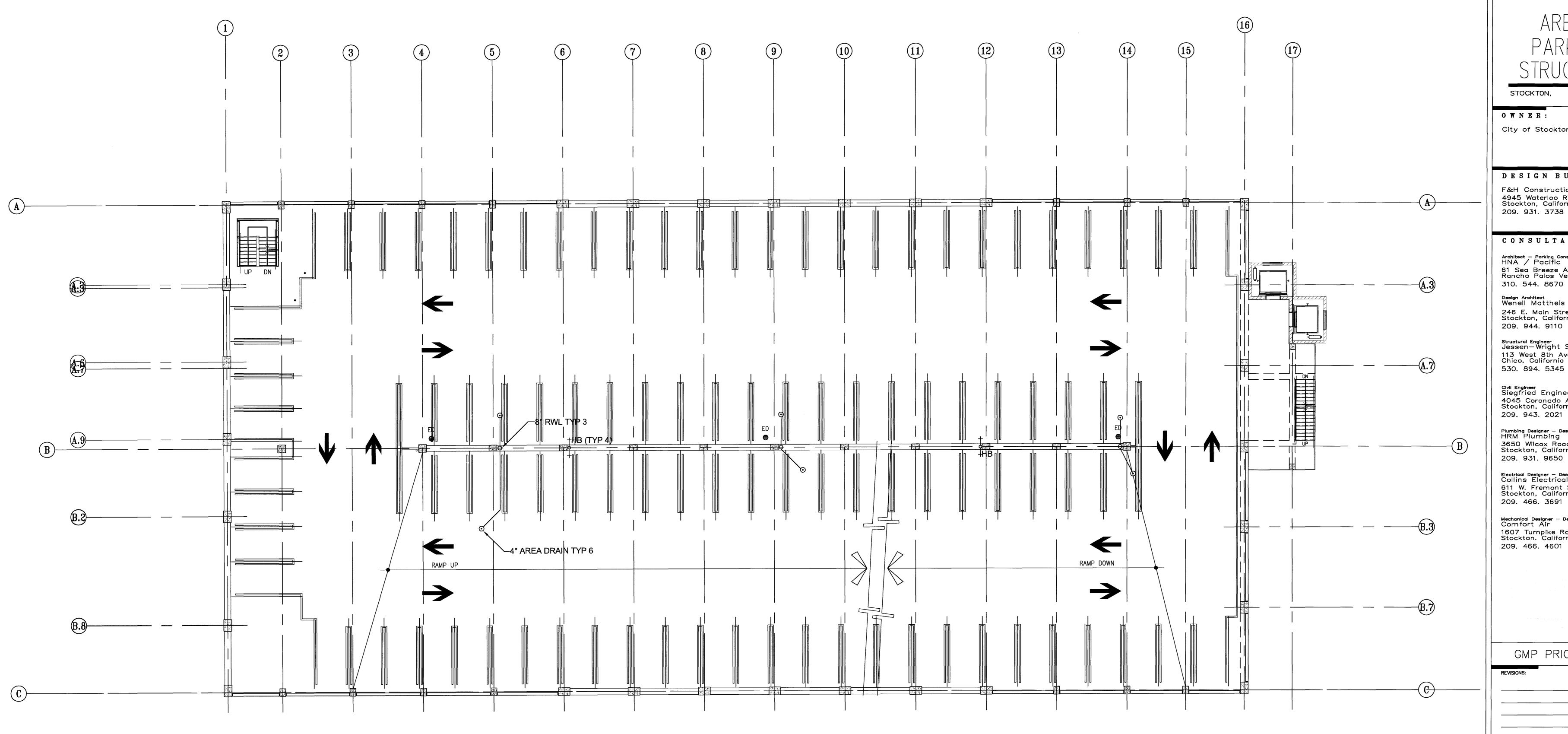
DRAWING NO:

P-2.3 -

true north plan north

P2.3 LEVEL P-3 - P-5 PLUMBING PLAN

SCALE: 3/32" = 1'-0"



STOCKTON, CALIFORNIA

OWNER:

City of Stockton

DESIGN BUILDER: F&H Construction 4945 Waterloo Road Stockton, California 95215

CONSULTANTS:

Architect - Parking Consultant HNA / Pacific 61 Sea Breeze Avenue Rancho Palos Verdes, California 90275 310. 544. 8670

Design Architect Wenell Mattheis Bowe 246 E. Main Street Stockton, California 95202 209. 944. 9110

Structural Engineer Jessen—Wright Structural Engineers 113 West 8th Avenue, Suite A Chico, California 95926 530. 894. 5345

CIVII Engineer Siegfried Engineering, Inc. 4045 Coronado Avenue Stockton, California 95204 209. 943. 2021

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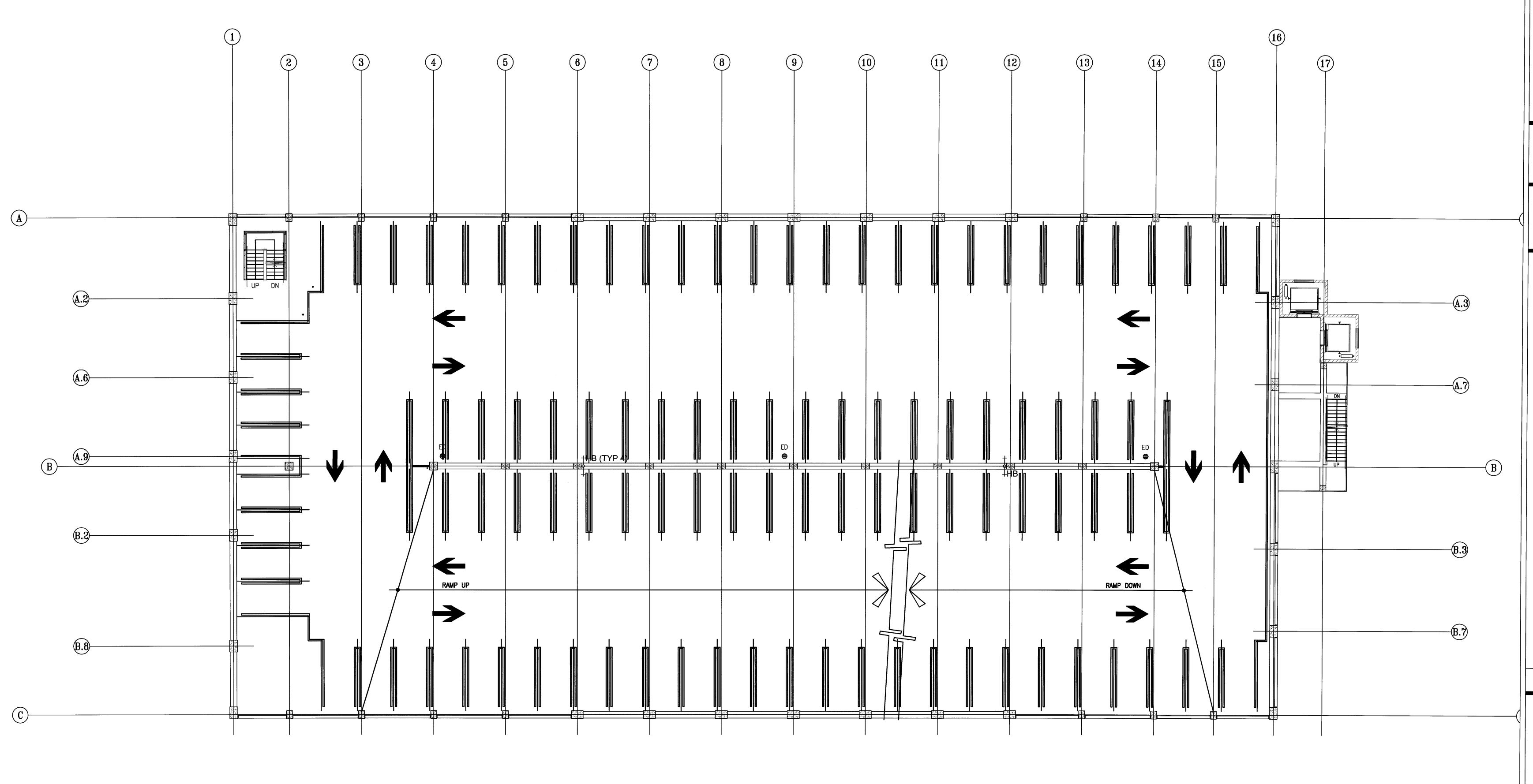
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LEVEL P-4 PLUMBING PLAN

 $\frac{3}{32}$ " = 1'-0"

CHECKED BY 1, JUNE 2004 DRAWING NO. PROGRAM NO. R-NO.

P-2.4



CITY
OF
STOCKTON
ARENA
PARKING
STRUCTURE

STOCKTON, CALIFORNIA

OWNER:

City of Stockton

DESIGN BUILDER:

F&H Construction 4945 Waterloo Road Stockton, California 95215 209. 931. 3738

CONSULTANTS:

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Structural Engineer
Jessen-Wright Structural Engineers
113 West 8th Avenue, Suite A
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530. 894. 5345

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611 W. Fremont Street Stockton, California 92503 209. 466. 3691

Mechanical Designer — Design/Builder Comfort Air 1607 Turnpike Road Stockton. California 95201 209. 466. 4601

GMP PRICING SET

REVISIONS:

10105

SHEET TITLE

LEVEL P-5 PLUMBING PLAN

DATE

1, JUNE 2004

3/32" = 1'-0"

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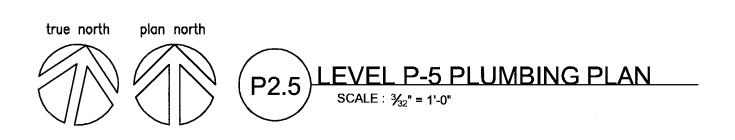
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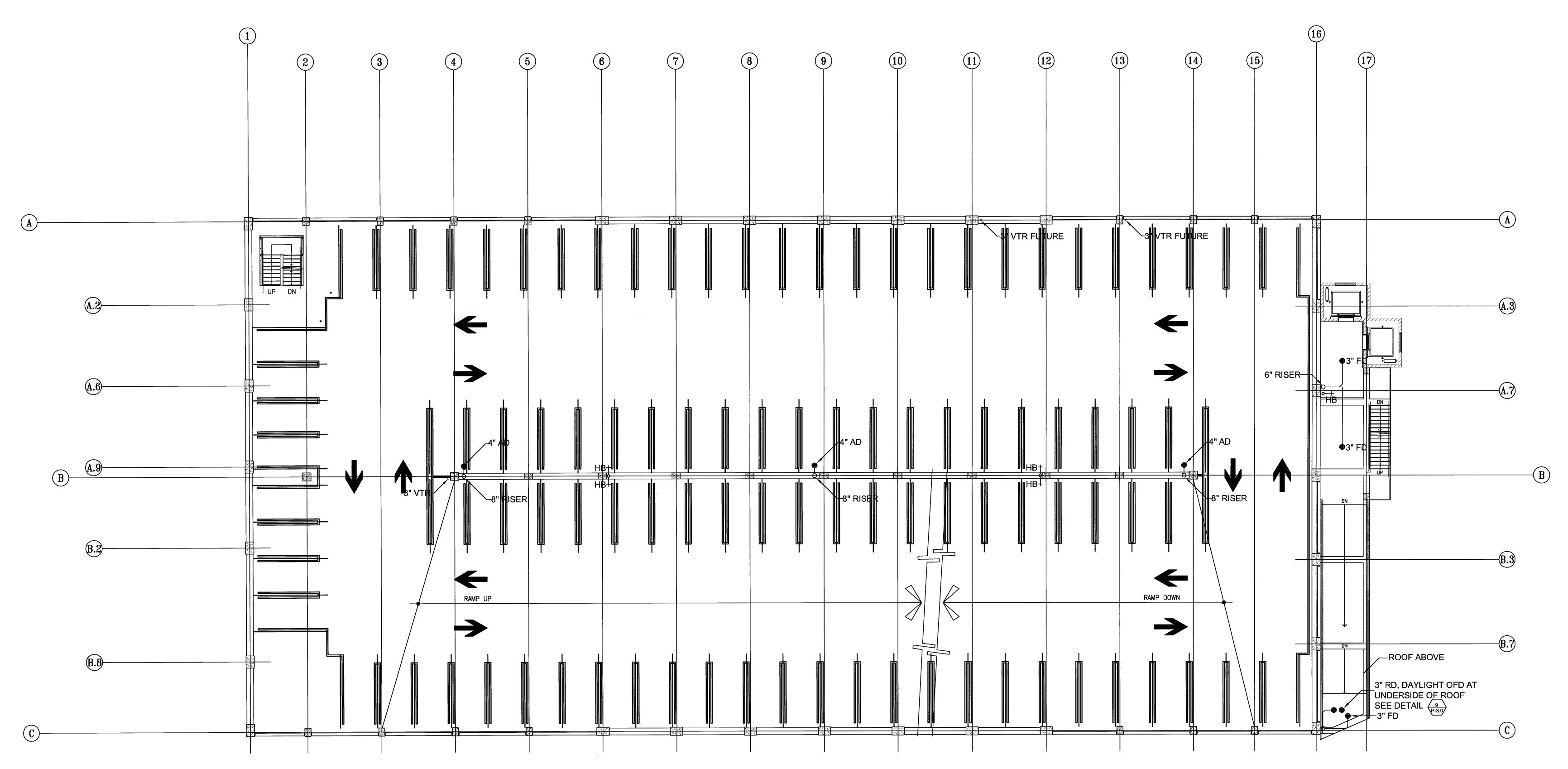
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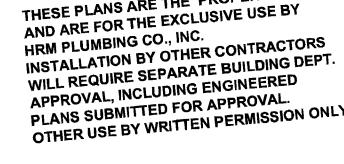
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STOCKTON, CALIFORNIA

OWNER:

City of Stockton

DESIGN BUILDER:

F&H Construction 4945 Waterloo Road Stockton, California 95215 209. 931. 3738

CONSULTANTS:

Architect - Parking Consultant HNA / Pacific 61 Sea Breeze Avenue Rancho Palos Verdes, California 90275 310. 544. 8670

Design Architect Wenell Mattheis Bowe 246 E. Main Street Stockton, California 95202 209. 944. 9110

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4045 Coronado Avenue Stockton, California 95204 209. 943. 2021

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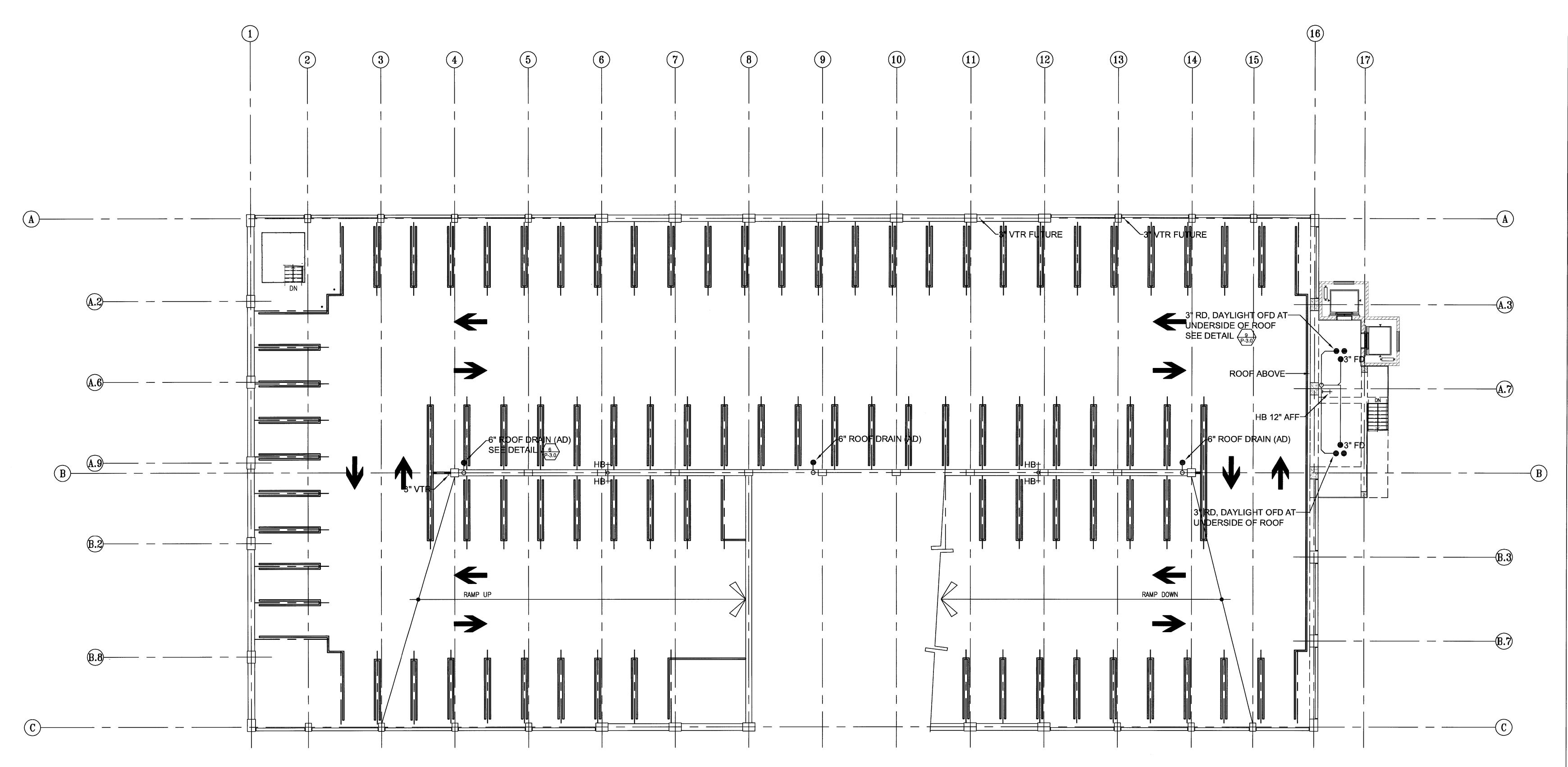
MAND

LEVEL P-6

SCALE $\frac{3}{32}$ " = 1'-0" 18, AUGUST 2004 CHECKED BY DRAWN BY JN,DS SHEET DRAWING NO. 2320A-2-6 R-NO. PROGRAM NO.

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CITY
OF
STOCKTON

ARENA
PARKING
STRUCTURE

STOCKTON, CALIFORNIA

OWNER:

City of Stockton

DESIGN BUILDER:

F&H Construction 4945 Waterloo Road Stockton, California 95215 209. 931. 3738

CONSULTANTS:

Architect - Parking Consultant
HNA / Pacific
61 Sea Breeze Avenue
Rancho Palos Verdes, California 90275
310. 544. 8670

Design Architect
Wenell Mattheis Bowe
246 E. Main Street
Stockton, California 95202
209. 944. 9110

Structural Engineer
Jessen—Wright Structural Engineers
113 West 8th Avenue, Suite A
Chico, California 95926
530. 894. 5345

CIVIL Engineer
Siegfried Engineering, Inc.
4045 Coronado Avenue
Stockton, California 95204
209. 943. 2021

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Electrical Designer — Design/Bullder Collins Electrical 611 W. Fremont Street Stockton, California 92503 209. 466. 3691 Mechanical Designer — Design/Bullder Comfort Air

1607 Turnpike Road Stockton. California 95201 209. 466. 4601

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8/18/04 PLANCHECK SET

10105

SHEET TI

LEVEL P-7
PLUMBING PLAN

DATE

18, AUGUST 2004

3/32" = 1'-0"

DRAWN BY

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DRAWING NO.

SHEET

2320A-2-7

PROGRAM NO.

R-NO.

DRAWING NO:

P-2.7

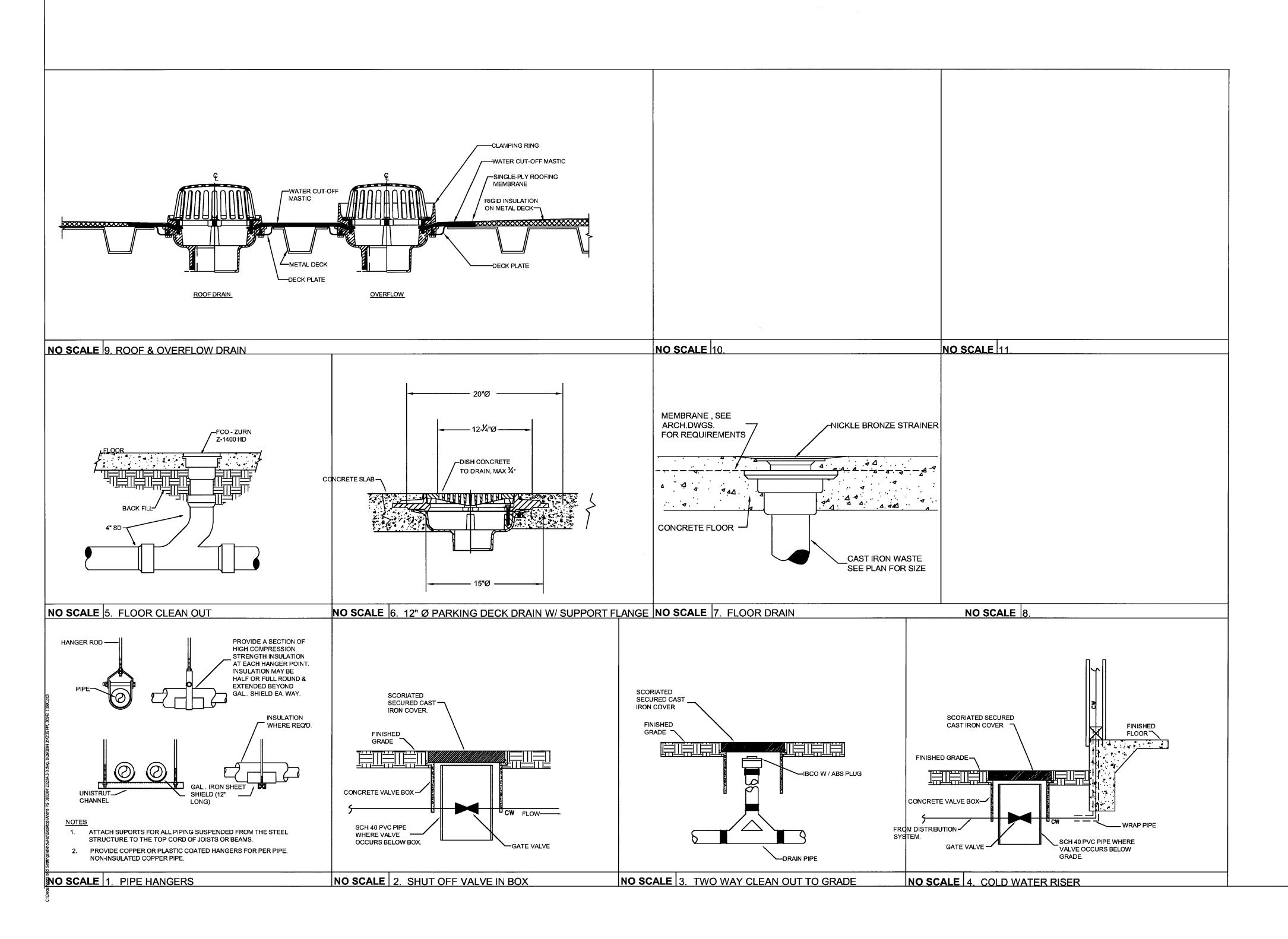
		<u>PLUMBING FIXTU</u>		T
SYMBOL	MAKE & MODEL	DESCRIPTION	TRIM	REMARKS
WC-1	KOHLER HIGHCLIFF K-4368 ADA	FLOOR MOUNT	SLOAN 111- FV	W / BEMIS 1955 SSC
LAV 1	KOHLER KINGSTON K-2005	LAVATORY WALL HUNG	K-15592 FCT W/ GRID DRAIN / TRAP	W / SMITH 0700 SUPPORTS
нв1	ACORN # 8136 - CR	HOSE BIB		ROUGH CHROME
IWH-1	EEMAX # SP-35	INSTANTANEOUS WATER HEATER		240V 1φ 14.6 AMPS
AD	ZURN Z-534-Y	4"- 6" AREA DRAIN		4" NH
FCO	ZURN ZN-1400	FLOOR CLEAN OUT		
FD	ZURN Z-415 TYPE "B"	FLOOR DRAIN		
RD	ZURN Z-164	ROOF DRAIN		
OFD	ZURN Z-164	OVER FLOW DRAIN		

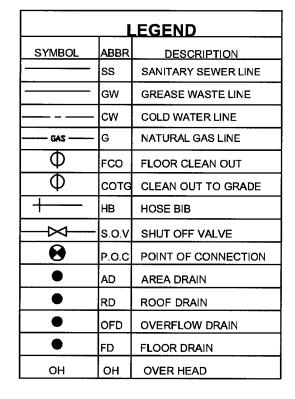
			FIXTURE STE				WATER	нот и	/ATER
FIXTURE	SYM	BRANCH	OUTLET	TRAP	VENT	BRANCH	OUTLET	BRANCH	OUTLE
WATER CLOSET (TNK)	wc	4"	4"	<u> </u>	2", 4"	3∕4"	¾"		
WATER CLOSET (F.V.)	wc	4"	4"		2", 4"	1-1/2"	1"		
LAVATORY	LAV	2"	1-1/2"	1-1/2"	1-1/2"	¾"	1/2"	3∕2"	1/2
SINK	s	2"	1-1/2"	1-1/2"	1-1/2"	¾"	% "	3/2"	1/2
SERVICE SINK	ss	3"	3"	3"	2"	¾"	½ "	3½"	1/2
DRINKING FOUNTAIN	DF	1-1/2"	1-1/2"	1-1/2"	1-1/2"	¾"	1/2"		
FLOOR DRAIN 2" & 3"	FD	2", 4"	2", 3"	2", 3"	2"				
HOSE BIB	HB-1					3⁄4"	3/4"		

1. PRESSURE AVAILABLE AT STREET MAIN	AVAILABLE WATER PRESSURE CAL	CIII A	TION
2. PRESSURE LOSS DUE TO HEIGHT 65-½' ft. x 0.434 28 PSI. 3. PRESSURE LOST THRU METER 2.1 PSI. 4. PRESSURE LOS THRU OTHER DEVICES (BFP) N/A PSI. 5. TOTAL PRESSURE LOSS 30.1 PSI. 6. PRESSURE REQUIRED AT HIGHEST FIXTURE 26 PSI. 7. PRESSURE AVAILABLE FOR FRICTION LOSS 4.1 PSI. (SUBTRACT LINES 5 & 6 FROM LINE 1) 8. TOTAL DEVELOPED LENGTH OF RUN 228 FT. 9. MAXIMUM VELOCITY 6 FPS. FRICTION LOSS CALCULATION FROM LINE 7 (4.1) PSI x 100 = 1.80 / 100 ft. FROM LINE 8 (228) FT			
3. PRESSURE LOST THRU METER 2.1 PSI. 4. PRESSURE LOS THRU OTHER DEVICES (BFP) N/A PSI. 5. TOTAL PRESSURE LOSS 30.1 PSI. 6. PRESSURE REQUIRED AT HIGHEST FIXTURE 26 PSI. 7. PRESSURE AVAILABLE FOR FRICTION LOSS 4.1 PSI. (SUBTRACT LINES 5 & 6 FROM LINE 1) 8. TOTAL DEVELOPED LENGTH OF RUN 228 FT. 9. MAXIMUM VELOCITY 6 FPS. FRICTION LOSS CALCULATION FROM LINE 7 (4.1) PSI x 100 = 1.80 / 100 ft. FROM LINE 8 (228) FT	1. PRESSURE AVAILABLE AT STREET MAIN	<u>52</u>	PSI.
4. PRESSURE LOS THRU OTHER DEVICES (BFP) 5. TOTAL PRESSURE LOSS 6. PRESSURE REQUIRED AT HIGHEST FIXTURE 7. PRESSURE AVAILABLE FOR FRICTION LOSS (SUBTRACT LINES 5 & 6 FROM LINE 1) 8. TOTAL DEVELOPED LENGTH OF RUN 9. MAXIMUM VELOCITY 6. FPS. FRICTION LOSS CALCULATION FROM LINE 7 (4.1) PSI x 100 = 1.80 / 100 ft. FROM LINE 8 (228) FT	2. PRESSURE LOSS DUE TO HEIGHT <u>65-½'</u> ft. x 0.434	28	PSI.
5. TOTAL PRESSURE LOSS	3. PRESSURE LOST THRU METER		PSI.
6. PRESSURE REQUIRED AT HIGHEST FIXTURE	4. PRESSURE LOS THRU OTHER DEVICES (BFP)	N/A	PSI.
7. PRESSURE AVAILABLE FOR FRICTION LOSS	5. TOTAL PRESSURE LOSS	30.1	PSI.
(SUBTRACT LINES 5 & 6 FROM LINE 1) 8. TOTAL DEVELOPED LENGTH OF RUN	6. PRESSURE REQUIRED AT HIGHEST FIXTURE	_26	PSI.
8. TOTAL DEVELOPED LENGTH OF RUN	7. PRESSURE AVAILABLE FOR FRICTION LOSS	4.1	PSI.
9. MAXIMUM VELOCITY	(SUBTRACT LINES 5 & 6 FROM LINE 1)		
FRICTION LOSS CALCULATION FROM LINE 7 (4.1) PSi x 100 = $\frac{1.80}{100}$ / 100 ft. FROM LINE 8 (228) FT	8. TOTAL DEVELOPED LENGTH OF RUN	228	FT.
FROM LINE $7 (4.1)$ PSI x 100 = $\frac{1.80}{1.00}$ / 100 ft.	9. MAXIMUM VELOCITY	6	FPS.
FROM LINE 8 (228) FT	FRICTION LOSS CALCULATION		
FROM LINE 8 (228) FT	FROM LINE 7 (4.1) PSI x 100 = 1.80 / 100 ft.		
AVAILABLE PS: 49.8 PSI @ FIRST LEVEL. 26 PSI @ SIXTH LEVEL			
, , , , , , , , , , , , , , , , , , ,	AVAILABLE PS: 49.8 PSI @ FIRST LEVEL, 26 PSI @ SIXTH LEVEL		

GAS CALCULATION							
SIZE PER TABLE 12-3 UNIFO	ORM PLUMBING CODE						
TOTAL GAS DEMAND	1000 CFH (TENANT IMPROVEMENT MINIMUM)						
DEVELOPED LENGTH	N/A						

ROOF DRAIN	AGE SIZIN	G
TOTAL ROOF AREA:	_33.62	0_SQ.FT
TOTAL OF THREE 6" AREA DRAINS @ LEVE	EL7: <u>45,30</u>	0_ SQ.FT
TOTAL OF TWO 3" FLOOR DRAINS @ ELEVATORS ON ALL LEVELS :	_32,48	0_ SQ.FT
MAXIMUM ALLOWED PER UPC :	3" = 2.320	SQ.FT
	4" = <u>5,300</u>	SQ.FT
	6" = <u>15,10</u> 0	2_ SQ.FT
	8" = <u>32,60</u> 6	SQ.FT
STORM DRAIN MAIN LINE SIZE :	10" = <u>58.40</u> 6	SQ.FT
CALCULATED RAINFALL:	2"	PER HR.
DRAIN/DOWNSPOUT SIZE :	4" AD	LEVEL 1 - 6
	<u>6" AD</u>	LEVEL 7
VERTICAL STORM DRAIN MAIN LINES :	<u>8" TYP</u>	3
	6"	
	4"	
SAND & OIL INTERCEPTOR : W / HI VELOCITY BY-PASS	1500	GALLONS
PER 2001 UPC (TABLE 11-2)		





CITY
OF
STOCKTON

ARENA
PARKING
STRUCTURE

STOCKTON, CALIFORNIA

OWNER:

City of Stockton

DESIGN BUILDER:

F&H Construction 4945 Waterloo Road Stockton, California 95215 209. 931. 3738

CONSULTANTS:

Architect - Parking Consultant
HNA / Pacific
61 Sea Breeze Avenue
Rancho Palos Verdes, California 90275
310. 544. 8670

Design Architect
Wenell Mattheis Bowe
246 E. Main Street
Stockton, California 95202
209. 944. 9110

Structural Engineer
Jessen—Wright Structural Engineers
113 West 8th Avenue, Suite A
Chico, California 95926
530. 894. 5345

CIVII Engineer
Siegfried Engineering, Inc.
4045 Coronado Avenue
Stockton, California 95204
209. 943. 2021

3650 Wilcox Road Stockton, California 95215 209. 931. 9650 Electrical Designer - Design/Builder Collins Electrical

611 W. Fremont Street Stockton, California 92503 209. 466. 3691 Mechanical Designer - Design/Bullder Comfort Air 1607 Turnpike Road Stockton. California 95201

209. 466. 4601

CONST. DOCUMENTS

REVISIONS:

7/21/04 PRFLIMINARY FOUNDATION
ONLY
8/18/04 PLANCHECK SET

(Por

12100

SHEET TITL

THESE PLANS ARE THE PROPERTY OF AND ARE FOR THE EXCLUSIVE USE BY HRM PLUMBING CO., INC. INSTALLATION BY OTHER CONTRACTORS WILL REQUIRE SEPARATE BUILDING DEPT. APPROVAL, INCLUDING ENGINEERED PLANS SUBMITTED FOR APPROVAL. OTHER USE BY WRITTEN PERMISSION ONLY.

DETAILS, FIXTURE SCHEDULE & CALCULATIONS

DATE	SCALE
18, AUGUST 2004	NO SCALE
DRAWN BY	CHECKED BY
JN,DS	
DRAWING NO.	SHEET
2320A-3-0	
PROGRAM NO.	R-NO.

prawing no: P-3.0



COLLINS ELECTRICAL COMPANY INC.

Electrical Contractors - Contractors License #115427

611 W. Fremont Street, Stockton, CA 95203 - P. O. Box 1609, Stockton, CA 95201 Stockton Office - Phone: (209) 466-3691 Fax: (209) 466-4349 Service Department --Fax: (209) 547-1379

Berryman & Hennigar

Attention: Permit Technician

6150 Stoneridge Mall Rd., Suite 370

Pleasanton, CA 94588

Reference: Arena Parking Structure, Stockton CA.

Subject: Second set of Comments to Berryman & Henigar

Subject: Electrical

General

1) Provide the available fault current at the MSB as per CEC 100-9: A phone call to PG&E brought us the available fault current at the Main Switch Board and it will be included on DWG E0.2.

- 2) Provide the service feeder calculation per CEC Article 220: The Service Feeder Calculations will be included in the "Building Electrical Load" matrix on DWG E0.2.
- 3) /22- Provide 1 Lux along the path of egress: Additional combination exit signs/emergency lights have been included to meet the 1 lux and the 100 ft. visibility rule.
- 4) Provide a separate circuit for each elevator pit as per CEC 620-24: The Elevator Pits and the related Machinery room have been recircuited and are shown on DWG E.03.
- 5) All receptacles in the machinery room and the elevator pit shall be the GFCI type as per CEC 620-85: The Elevator Pits and the related Machinery room have GFCI receptacles and are shown on DWG E.03.
- 6) All Switches and receptacles in the elevator pits shall be weatherproof as per CEC 380-4 and 410-57: The Elevator Pits

and the related Machinery room devices are marked WP and are shown on DWG E.03.

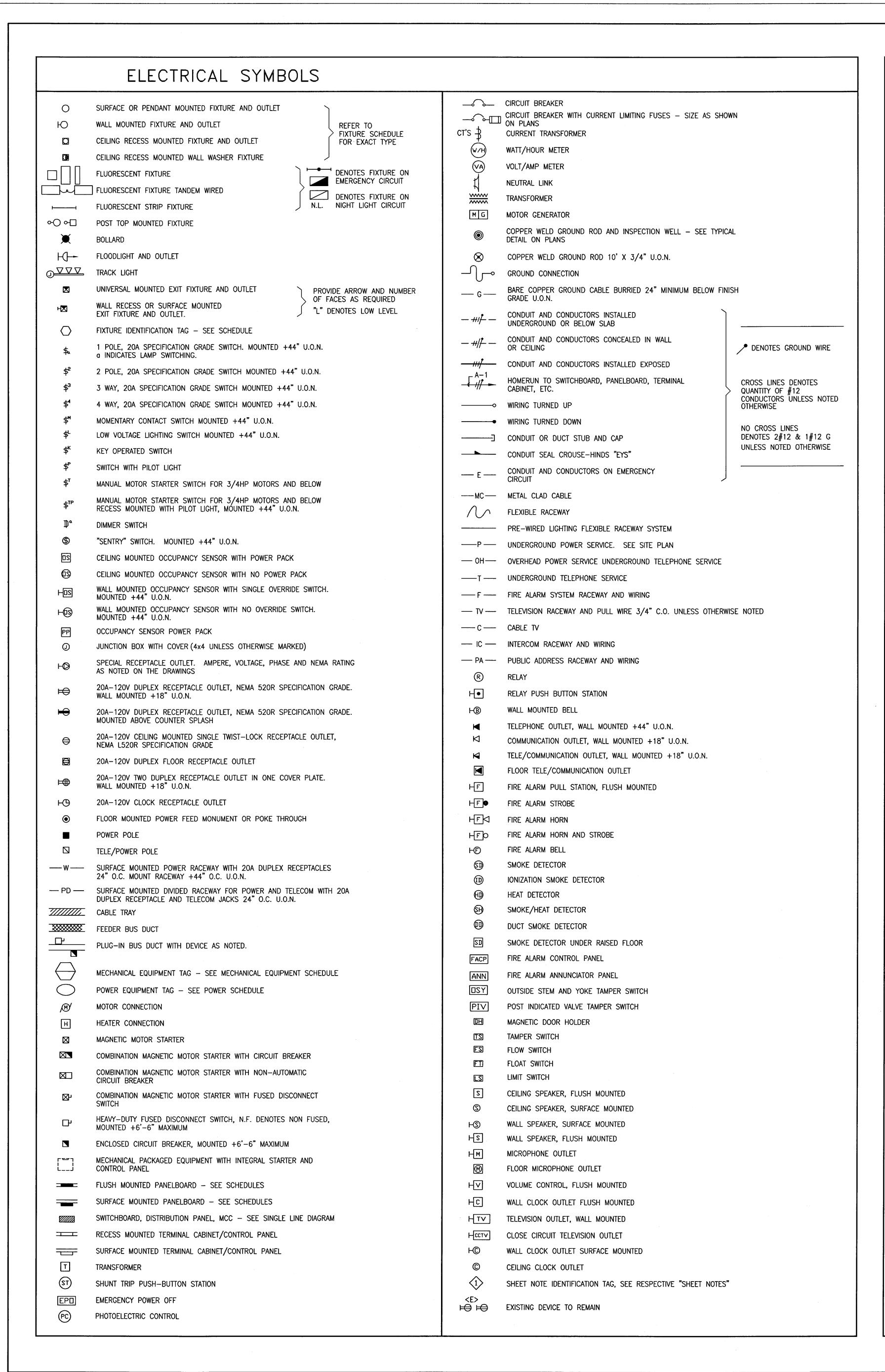
If you have any questions please feel free to call or contact me at:

Collins Electrical Co., Inc. 209-466-3691 ext 3033

Yours Truly,

Deborah Schouten Electrical Engineer PE

L#E17331



ABBREVIATIONS A, AMPS AMPERES AIR CONDITIONER ALTERNATE CURRENT AMPERE FRAME ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AMPERE INTERRUPTION CURRENT ALUMINUM APPROXIMATE ARCH ARCHITECT/ARCHITECTURAL AMPERES TRIP ATS AUTOMATIC TRANSFER SWITCH AWG AMERICAN WIRE GAUGE BARE COPPER BCP BOILER CONTROL PANEL BACKBOARD BREAKER BUILDING CONDUIT CIRCUIT BREAKER CENTER TO CENTER CABINET CIRCUIT CENTER LINE CEILING CLEAR CONDUIT ONLY CONCRETE CTR CENTER COPPER DIRECT CURRENT DET. DETAIL DIAMETER DIST DISTRIBUTION DOWN DISTRIBUTION PANEL DWG DRAWING **EMERG EMERGENCY EMS ENERGY MANAGEMENT SYSTEM EMT** ELECTRICAL METALLIC TUBING **ENCL** ENCLOSURE/ENCLOSED END-OF-LINE RESISTOR EMERGENCY POWER OFF EQUIPMENT EWC ELECTRIC WATER COOLER <E> EXISTING FIRE ALARM FACP FIRE ALARM CONTROL PANEL FULL LOAD AMPERES FLEX FLEXIBLE FUT, <F> FUTURE GROUND GALV GALVANIZED GRS GALVANIZED RIGID STEEL GROUND FAULT INTERRUPTER HEAT DETECTOR HANDHOLE HIGH INTENSITY DISCHARGE HIGH OUTPUT HAND-OFF-AUTO HORSEPOWER HIGH PRESSURE SODIUM HOUSE SERVICE PANEL HIGH VOLTAGE HERTZ INTERCOM INTERRUPTING SHORT CIRCUIT ISOLATED GROUND INSTANTANEOUS JUNCTION BOX KCMIL KILO CIRCULAR MILLS KILOVOLTS KILOVOLT-AMPERES KILOWATTS KILOWATT-HOURS LIGHTING CONTROL PANEL LOW PRESSURE SODIUM LIGHTING MAXIMUM MCC MOTOR CONTROL CENTER MANUFACTURING MANUFACTURER MECHANICAL MANHOLE MICROPHONE MINIMUM MISCELLANEOUS MLO MAIN LUGS ONLY MOUNTED MOUNTING HEIGHT MTG. HT. MAIN SWITCHBOARD MAIN SWITCH GEAR MERCURY VAPOR NEUTRAL NURSE CALL. NORMALLY CLOSE NOT IN CONTRACT NORMALLY OPEN, NUMBER NOT TO SCALE ON CENTER OVERHEAD POLE PHASE PUBLIC ADDRESS PUSHBUTTON POWER DISTRIBUTION UNIT POLYVINYL CHLORIDE <R> <RE> NEW LOCATION OF RELOCATED DEVICE RECEPTACLE REQ'D REQUIRED <RL> EXISTING TO BE RELOCATED RIGID STEEL CONDUIT SECONDARY SOLID NEUTRAL **SPECS SPECIFICATIONS** STANDARD SHUNT TRIP SWITCHBOARD SYMMETRICAL TEMPERATURE CONTROL PANEL TIME DELAY TELEPHONE TYPICAL UNDERGROUND UNDERWRITERS LABORATORIES UNLESS OTHERWISE NOTED **VOLT-AMPERES VAPORPROOF** WATTS, WIRE WATER HEATER WEATHERPROOF WATERTIGHT TRANSFORMER EXPLOSION PROOF TYPICAL MOUNTING HEIGHT 4'-6" ABOVE FLOOR OR GRADE TO CENTER OF BOX

GENERAL NOTES

- 1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE CURRENT APPROVED EDITION OF THE NATIONAL ELECTRICAL CODE, AS ACCEPTED AND AMENDED BY LOCAL ORDINANCES.
- 2. ANY EQUIPMENT AND MATERIALS FURNISHED BY THE CONTRACTOR SHALL BE NEW,

TO ROUGHING IN EQUIPMENT UTILITIES.

- UNUSED AND FREE FROM DEFECTS.

 3. CONTRACTOR SHALL VERIFY FINAL PLACEMENT AND CONNECTION REQUIREMENTS PRIOR
- 4. FINAL ACCEPTANCE OF WORK IN PLACE SHALL BE SUBJECT TO APPROVAL BY OWNER'S REPRESENTATIVE, TENANT AND ARCHITECT/ENGINEER. INSTALLATION APPROVAL SHALL BE BASED ON APPROVED SUBMITTAL, SHOP DRAWINGS AND LOCAL INSPECTIONS.
- 5. CONTRACTOR SHALL SUBMIT RECORD DRAWING MARK-UPS WITHIN TWO (2) WORK WEEKS OF DATE OF NOTIFICATION OF FINAL APPROVAL.
- 6. CONTRACTOR SHALL WARRANTY ALL WORK FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE AND SHALL REPAIR OR REPLACE ANY DEFECTIVE WORK INCLUDING MATERIAL, LABOR AND EQUIPMENT AT NO ADDITIONAL COST DURING THE WARRANTY
- 7. ALL WORK SHOWN ON DRAWINGS IS IN PART SCHEMATIC, INTENDED TO CONVEY SCOPE OF WORK AND GENERAL LAYOUT. VERIFY ALL EXISTING CONDITIONS AND MAKE ADJUSTMENTS AS REQUIRED.
- 8. CONTRACTOR SHALL PROVIDE UPDATED/CORRECTED PANEL DIRECTORIES WITHIN EACH PANELBOARD PRIOR TO FINAL ACCEPTANCE OF WORK IN PLACE.
- LABEL ALL WIRING DEVICES WITH SOURCE PANELBOARD AND CIRCUIT NUMBER ON COVER PLATE. USE EMBOSSED, PLASTIC, SELF ADHESIVE, MACHINE—PRINTED, ABRASION—RESISTANT PLASTIC LABEL TAPE ON FACEPLATES AND DURABLE WIRE MARKERS OR TAGS ELSEWHERE, WHITE ON BLACK, WITH 3/16" MINIMUM TEXT HEIGHT. USE WHITE ON RED FOR EMERGENCY CIRCUITS.
- 10. LABEL ALL NEW PANELBOARDS, SWITCHBOARDS AND MOTOR CONTROL CENTERS WITH ENGRAVED METAL OR LAMINATED-PLASTIC NAMEPLATES MOUNTED WITH CORROSION-RESISTANT SCREWS.
- 11. BRANCH CIRCUIT RACEWAY SHALL BE MC CABLE OR 1/2" ELECTRICAL METALLIC TUBING (EMT) UNLESS OTHERWISE NOTED. RACEWAYS IN FLOOR SLABS SHALL BE PVC AND/OR PVC COATED MC CABLE UNLESS OTHERWISE NOTED
- 12. ALL INTERIOR OUTLET, JUNCTION AND PULL BOXES SHALL BE METALLIC, SIZED PER CODE FOR THE NUMBER OF CONDUCTORS THEREIN.
- 13. ALL ELECTRICAL RACEWAYS SHALL BE CONCEALED IN THE WALLS AND ABOVE SUSPENDED CEILING OR BELOW RAISED FLOOR UNLESS OTHERWISE NOTED.
- 14. ALL CONDUCTORS SHALL BE #12 AWG MINIMUM TYPE THHN/THWN UNLESS NOTED OTHERWISE.
- 15. PROVIDE AND INSTALL MISCELLANEOUS STEEL FOR PROPER INSTALLATION OF THE ELECTRICAL EQUIPMENT. DETAILS OF THE STEEL SUPPORTS SHALL BE INDICATED ON THE SHOP DRAWINGS SUBMITTED FOR APPROVAL.

DRAWING INDEX

<u>_0</u>	EO.1	COVERSHEET
<u></u>	E0.2	PANEL/FIXTURE SCHEDULE
<u></u>	E0.3	ELECTRICAL DETAILS
<u></u>	E0.4	TITLE 24
<u></u>	E1.1	POWER & LIGHTING LEVEL 1
<u></u>	E1.2	POWER & LIGHTING LEVEL 2
<u></u>	E1.3	POWER & LIGHTING LEVEL 3
\bigcirc	E1.4	POWER & LIGHTING LEVEL 4
<u></u>	E1.5	POWER & LIGHTING LEVEL 5
<u></u>	E1.6	POWER & LIGHTING LEVEL 6
^		

POWER & LIGHTING LEVEL 7

OF STOCKTON ARENA PARKING STRUCTURE

STOCKTON, CALIFORNIA

0 W N E R :
City of Stockton

F&H Construction

209. 931. 3738

4945 Waterloo Road

DESIGN BUILDER:

Stockton, California 95215

CONSULTANTS:

Architect — Parking Consultant

61 Sea Breeze Avenue Rancho Palos Verdes, California 9027 310. 544. 8670

Design Architect
Wenell Mattheis Bowe
246 E. Main Street
Stockton, California 95202
209. 944. 9110

Structural Engineer
Jessen-Wright Structural Engineers
113 West 8th Avenue, Suite A
Chico, California 95926
530. 894. 5345

Civil Engineer
Siegfried Engineering, Inc.
4045 Coronado Avenue
Stockton, California 95204
209. 943. 2021

Plumbing Designer - Design/Builder HRM Plumbing 3650 Wilcox Road Stockton, California 95215 209. 931. 9650

Electrical Designer - Design/Builder Collins Electrical 611 W. Fremont Street Stockton, California 92503 209. 466. 3691

Mechanical Designer - Design/Builder Comfort Air 1607 Turnpike Road Stockton. California 95201 209. 466. 4601

CONST. DOCUMENTS

REVISIONS:

PERMIT SET

PERMIT SET 09-17-04

PROFESSIONAL CYCLOSION CYC

1016

COVERSHEET

DATE SCALE

17, SEPTEMBER 2004 NTS

DRAWN BY CHECKED BY

RMFA DS

DRAWING NO. SHEET

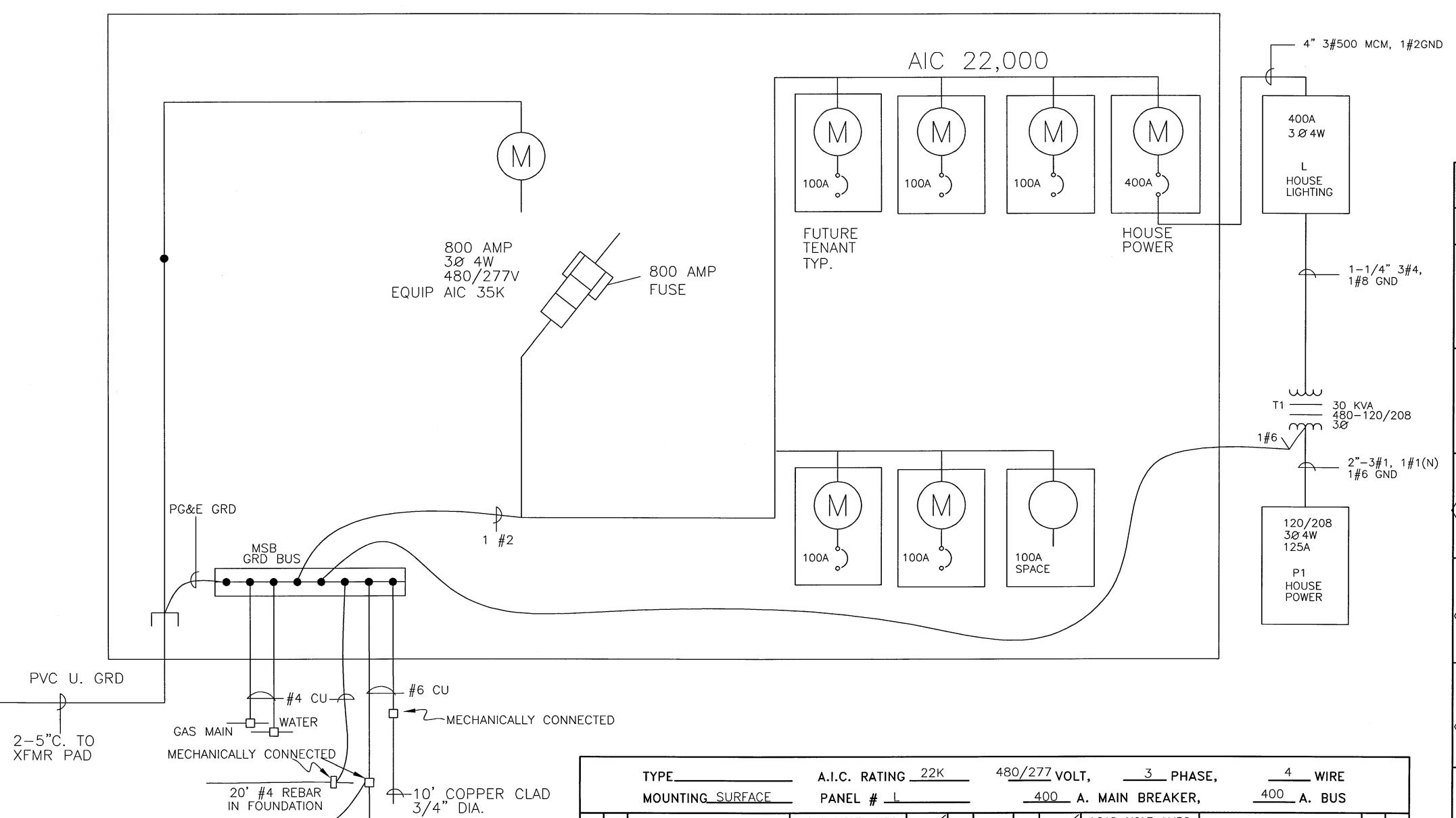
EO.1 1 OF 11

PROGRAM NO. R-NO.

SHEET TITLE

DRAWING NO:

PROJECT NO:



MOUNTING SURFACE

1STFLR/RSTRM/PAYBTH // 2.15k

DESCRIPTION

SEVENTH FLR NORTH

X FIRST FIR

X THIRD FLR

X THIRD FLR

X FIFTH FLR

FIFTH FLR

PANEL # __L

3.25 K

	BUILDING ELECTRICAL	LOAD
BKR SIZE	LOAD NAME	KVA
1)400	HOUSE LIGHTING/POWER	162.1
2)100	SPACE	66(F)
3)100	SPACE	66(F)
4)100	SPACE	66(F)
5)100	SPACE	66(F)
6)100	SPACE	66(F)
SPACE	SPACE	66(F)
	TOTAL CONNECTED KVA	558.1
	AVAILABLE KVA	665

20' #4 REBAR IN FOUNDATION

TELEPHONE GRD ROD

10' COPPER CLAD 3/4" DIA.

TELEPHONE GRD BUS

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		TYPE																SE,			_ WIRE		
		MOUNTING SURFACE																		<u> </u>	. 603		
ပ	REC	DESCRIPTION	L	OAD-	-VOLT	AMPS	BKF	3/10	CKT.	PHA	ASE	скт.	BKR	<u> </u>	DAD-\	/OLT	AMPS	_	DES	CRIPTIC	N		116
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X	X X X X X	WEST STAIRWELL FLRS 1- LOC C-11 FLRS 1- LOC B.8-1 FLRS 1- LOC A-6 FLRS 2-7 ELEVATOR CAR #1 A ELEVATOR CAR #1 ELEVATOR CAR #2	7 /2 7 /2 7 12 C /2 36	60	1260 500 560	126	20 20 20 20 20 3 20 20 8 20 20 20	/1 /1 /1 /1 /1 /1 /1 /1 /1	1 3 5 7 9 11 13 15 17 19 21 23 25 27		B C	2 4 6 8 10 12 14 16 18 20 22 24 26 28	20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/	1 12 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 1 1	60 /	260 360	1260 500	LOC LOC EAST LOC PAY PAY SBE TBB ELE SPA	C-16 C-6 STAIR A-1 BOOT BOOT BACI BACI V MEC	FLRS WELL F 1 FLR H EQU KBOAR (BOAR	S 1-7 1-7 LRS 1- S 2-7 STROOM JIPMEN D D	-7 ,	
X	X X X X X	WEST STAIRWELL FLRS 1- LOC C-11 FLRS 1- LOC B.8-1 FLRS 1- LOC A-6 FLRS 2-7 ELEVATOR CAR #1 A ELEVATOR CAR #1 ELEVATOR CAR #2	7 /2 7 /2 7 12 C /2 36	60	1260 500 560	126	20 20 20 20 20 3 20 20 8 20 20 20	/1 /1 /1 /1 /1 /1 /1 /1 /1	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29		B C	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30	20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/	1 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	60 /	260 360	1260 500	LOC LOC EAST LOC PAY PAY SBE TBB ELE SPA	C-16 C-6 STAIR A-1 BOOT BOOT BACI BACI V MEC	FLRS WELL F 1 FLR H EQU KBOAR (BOAR	S 1-7 1-7 LRS 1- S 2-7 STROOM JIPMEN D D	-7 ,	
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X	X X X X X	WEST STAIRWELL FLRS 1- LOC C-11 FLRS 1- LOC B.8-1 FLRS 1- LOC A-6 FLRS 2-7 ELEVATOR CAR #1 A ELEVATOR CAR #1 ELEVATOR CAR #2	7 /2 7 /2 7 12 C /2 36	60	1260 500 560	126	20 20 20 20 20 3 20 20 8 20 20 20	/1 /1 /1 /1 /1 /1 /1 /1 /1	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31		B C	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32	20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/	1 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	60 /	260 360	1260 500	LOC LOC EAST LOC PAY PAY SBE TBB ELE SPA	C-16 C-6 STAIR A-1 BOOT BOOT BACI BACI V MEC	FLRS WELL F 1 FLR H EQU KBOAR (BOAR	S 1-7 1-7 LRS 1- S 2-7 STROOM JIPMEN D D	-7 ,	
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X	X X X X X	WEST STAIRWELL FLRS 1- LOC C-11 FLRS 1- LOC B.8-1 FLRS 1- LOC A-6 FLRS 2-7 ELEVATOR CAR #1 A ELEVATOR CAR #1 ELEVATOR CAR #2	7 /2 7 /2 7 12 C /2 36	60	1260 500 560	126	20 20 20 20 20 3 20 20 8 20 20 20	/1 /1 /1 /1 /1 /1 /1 /1 /1	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37			2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38	20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/	1 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	60 /	260 360	1260 500	LOC LOC EAST LOC PAY PAY SBE TBB ELE SPA	C-16 C-6 STAIR A-1 BOOT BOOT BACI BACI V MEC	FLRS WELL F 1 FLR H EQU KBOAR (BOAR	S 1-7 1-7 LRS 1- S 2-7 STROOM JIPMEN D D	-7 ,	
	X X X X X	WEST STAIRWELL FLRS 1- LOC C-11 FLRS 1- LOC B.8-1 FLRS 1- LOC A-6 FLRS 2-7 ELEVATOR CAR #1 A ELEVATOR CAR #1 ELEVATOR CAR #2	7 12 7 12 C 12 C 1	260	1260 500 560	126	20 20 20 20 20 20 20 20 20 20 20	/1 /1 /1 /1 /1 /1 /1 /1 /1	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39			2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 36 38 40	20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/ 20/	1 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	60 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 /	260 360 360 77 0	1260 500	LOC LOC EAST LOC PAY PAY SBE TBB SPAI SPAI	C-16 C-6 STAIR A-1 BOOT BOOT BACI BACI V MEC	FLRS WELL F 1 FLR H EQU KBOAR (BOAR	S 1-7 1-7 LRS 1- S 2-7 STROOM JIPMEN D D	-7 ,	

400 A. BUS

DESCRIPTION

X LTG

Х

X

400 A. MAIN BREAKER,

6 20/1 / 2.8K FOURTH FLR

20/1 13 14 20/1 .75K // STAIRWELL/EXIT EAST X 20/1 15 16 20/1 // 2.0K // SIGNAGE X

12 20/1 /// 2.8K SIXTH FLR

LOAD-VOLT AMPS BKR CKT. PHASE CKT. BKR LOAD-VOLT AMPS

A B C POLE NO. A B C NO. POLE A B C DESCRIP

1.15K / 20/1 1 + 2 20/1 2.8K / SECOND FLR

20/1 7 8 20/1 2.8K /// FOURTH FLR
20/1 9 10 20/1 // 2.8K // SIXTH FLR

			FIXTURE SC	HEDU	LE	
Ì	TYPE	SKETCH	DESCRIPTION	FINISH	MFR.	LAMP
	$\langle A \rangle$	X	PG L4 SURFACE MOUNT 175W OR EQUIV.	GRAY	KIM LTG OR EQUIV.	175W HID VERTICAL MOUNT
	$\left(A \right)$	X	PG L4 SURFACE MOUNT 100W OR EQUIV.	GRAY	KIM LTG OR EQUIV.	100W HID VERTICAL MOUNT
(N)	$\langle B \rangle$		1X4 CORNER MOUNT W/EMERG BATTERY PACK	WHT.		2LAMP- 32W/T8
			ENCLOSED, GASKETED AND PROTECTED FIXTURE	GRAY		CFQ13W INCAND.
			1X4 VDS ROUGH SURF SURFACE MOUNT	WHT.		2LAMP- 32W/T8
	$\langle E \rangle$		1X4 CB COMMERCIAL SURFACE MOUNT GENERAL PURPOSE WRAP AROUND	WHT.		2LAMP- 32W/T8
	(F)		EXIT SIGN W/EMERG BATTERY PACK & EGRESS LAMPS	WHT		QUANTUM LED UNI— VERSAL MOUNT
	$\langle F1 \rangle$		EXIT SIGN SELF POWERED	WHT		NO ELEC. NEEDED
	$\langle F2 \rangle$		EXIT SIGN W/EMERG BATTERY PACK W/EMERG LIGHTS	WHT		
]	(G1)		TWIN 400W HID 250W HID ON 10' SQUARE STEEL POLE	GRAY	LITHONIA CAT# #KVF250M SYMFL OR EQUIV.	400W/ 250W/ HID VERTICAL MOUNT
<	$\langle G2 \rangle$		ON 30' SQUARE STEEL POLE	GRAY	LITHONIA CAT# #KVF400M SYMFL OR EQUIV.	HID VERTICAL MOUNT
	$\overline{G3}$		TRIPLE 400W HID ON 30' SQUARE STEEL POLE	GRAY	LITHONIA CAT# #KVF400M SYMFL OR EQUIV.	400W/ HID VERTICAL MOUNT
	$\langle H \rangle$		250W HID WALL MOUNT FIXTURE	GRAY		400W HID VERTICAL MOUNT
			QUAD TUBE FLUORESCENT DOWNLIGHT 8" IN DIA	SPEC. FIN.		32W FLUORESCENT QUAD TUBE

ARENA PARKING

STOCKTON, CALIFORNIA OWNER: City of Stockton

DESIGN BUILDER: F&H Construction

4945 Waterloo Road Stockton, California 95215 209. 931. 3738

CONSULTANTS:

Architect — Parking Consultant HNA / Pacific 61 Sea Breeze Avenue Rancho Palos Verdes, California 90 310. 544. 8670

Design Architect Wenell Mattheis Bowe 246 E. Main Street Stockton, California 95202 209. 944. 9110

Structural Engineer Jessen-Wright Structural Enginee 113 West 8th Avenue, Suite A Chico, California 95926 530, 894, 5345

Civil Engineer Siegfried Engineering, Inc. 4045 Coronado Avenue Stockton, California 95204 209. 943. 2021

Plumbing Designer – Design/Builder HRM Plumbing 3650 Wilcox Road Stockton, California 95215 209. 931. 9650

Electrical Designer — Design/Builder Collins Electrical 611 W. Fremont Street Stockton, California 92503 209. 466. 3691

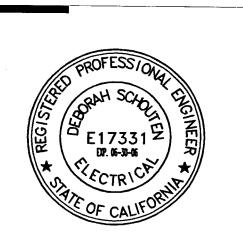
Mechanical Designer — Design/Builder Comfort Air 1607 Turnpike Road Stockton. California 95201 209. 466. 4601

REVISIONS:

SHEET TITLE

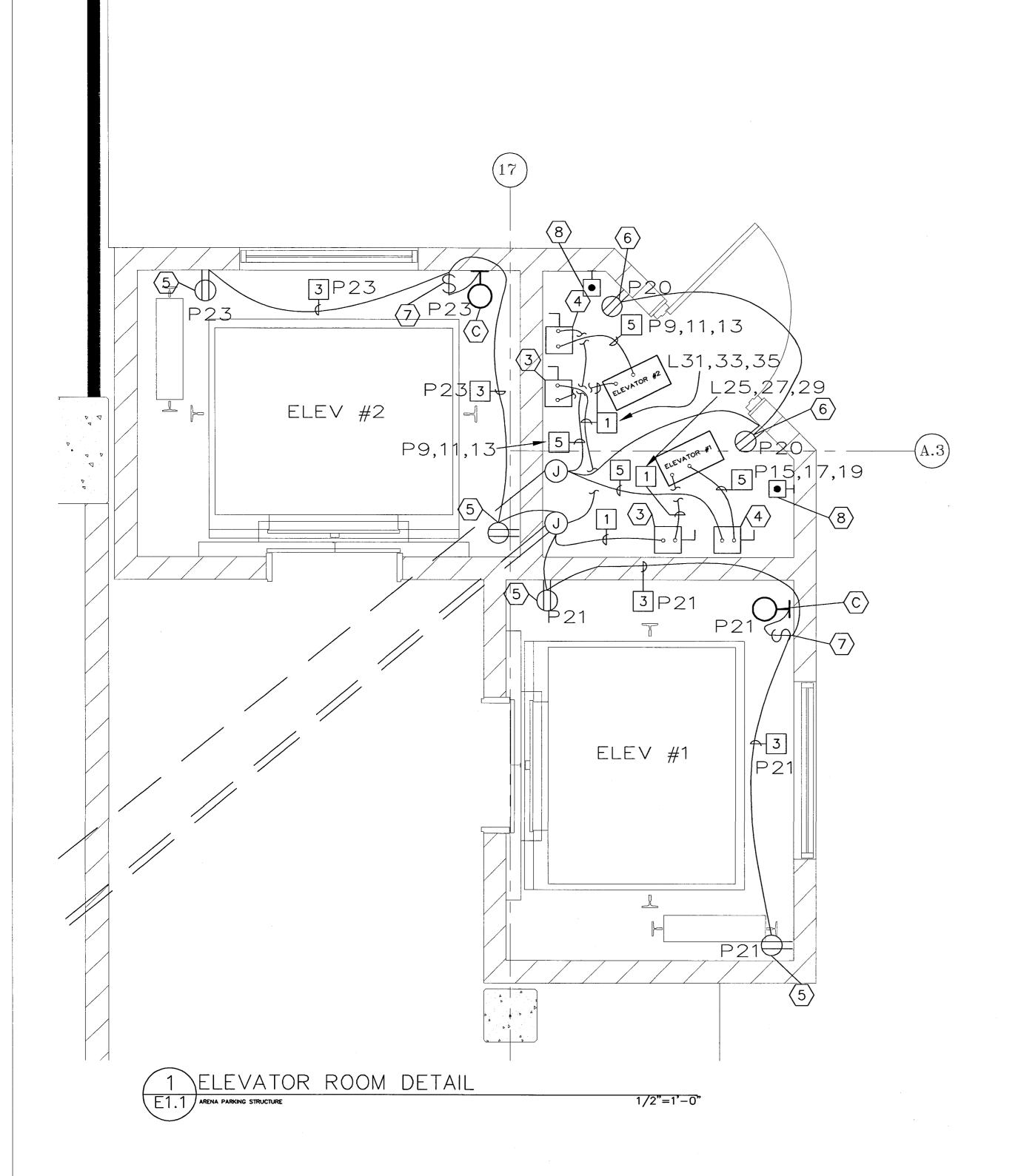
CONST. DOCUMENTS

PERMIT SET 09-17-04



PANEL/FIXTURE SCHEDULE

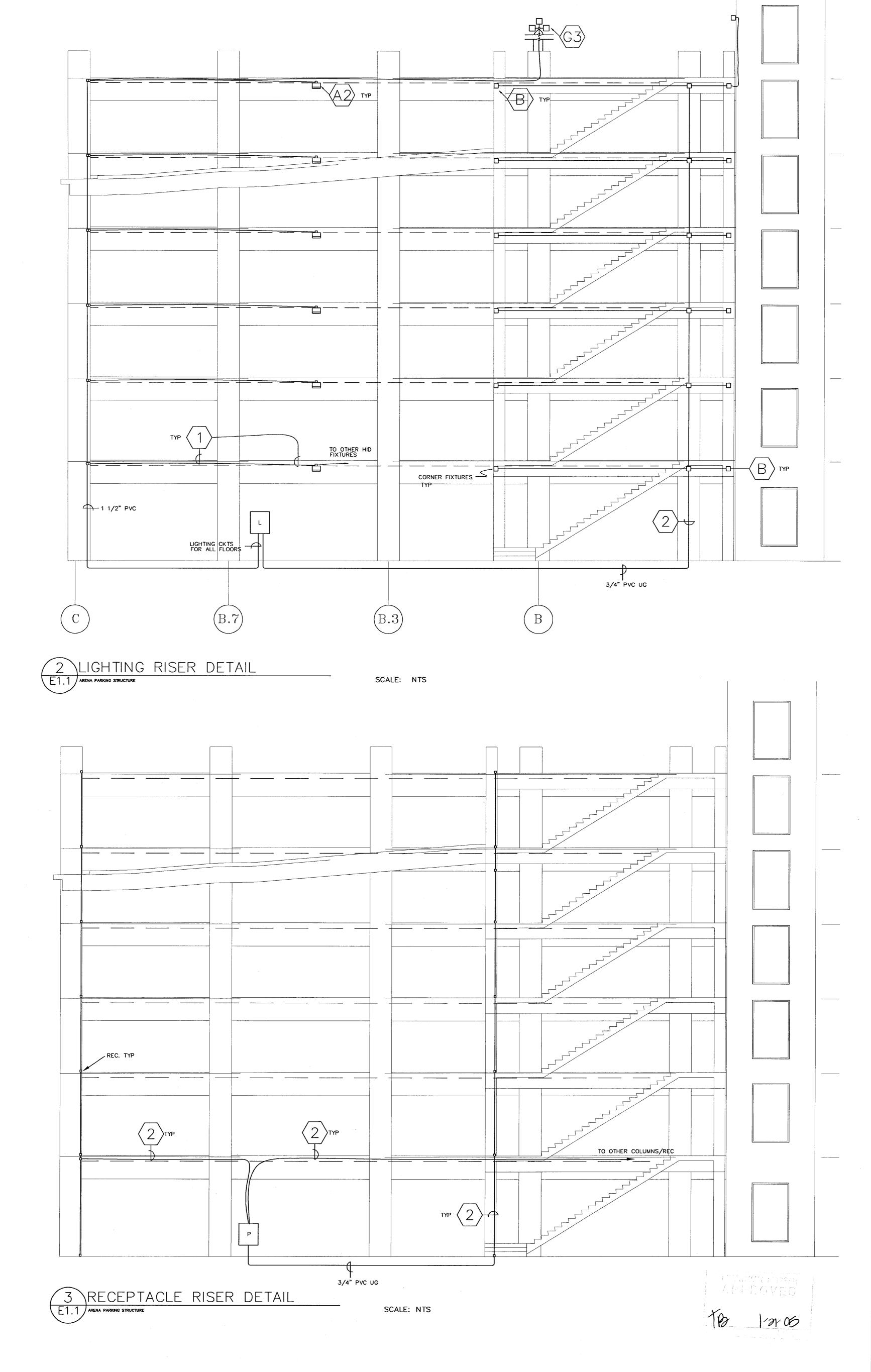
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DRAWING NO.	SHEET
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DRAWING NO:	
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PROJECT NO:	
HNA	2320



ELECTRICAL NOTES

- 1) PVC COATED 4 COND. #12 (H,H,N,G) MC CABLE IN CONCRETE SLAB.
- PVC COATED 3 COND. #12 (H,N,G) MC CABLE IN CONCRETE SLAB.
- 3 100 AMP 600v 3 NEMA 1 HEAVY DUTY FUSED DISCONNECT SWITCH, FUSED AT 100 AMPS
- 30 AMP 250v 3 NEMA 1 HEAVY DUTY FUSED DISCONNECT SWITCH, FUSED AT 20 AMPS. CONTROLS THREE CIRCUITS; ELEVATOR LIGHTING, RECEPTACLE, AND A/C.
- $\langle 5 \rangle$ 20A 120V RECEPTACLE GFI/WP,
- 6 20A 120V RECEPTACLE, GFI
- $\langle 7 \rangle$ 20A SPST LIGHT SWITCH, WP
- 8 SPST RED MUSHROOM HEAD SHUNT TRIP
- FILL NOTES

 1 $\frac{1}{2}$ C 3 #2, 1 #8 GRD
- 2 5 COND. #12 (H,H,H,NG) MC CABLE
- 3 3 COND. #12 (H,N,G) MC CABLE
- 4 COND. #12 (H,H,N,G) MC CABLE
- 5 1/2"C 3 #12, 1 #12(N), 1 #12 GRD



OF STOCKTON ARENA PARKING STRUCTURE

OWNER:

STOCKTON,

City of Stockton

DESIGN BUILDER:

CALIFORNIA

F&H Construction 4945 Waterloo Road Stockton, California 95215 209. 931. 3738

CONSULTANTS:

310. 544. 8670

Architect - Parking Consultant
HNA / Pacific
61 Sea Breeze Avenue
Rancho Palos Verdes, California 9027!

Design Architect Wenell Mattheis Bowe 246 E. Main Street Stockton, California 95202 209. 944. 9110

Structural Engineer
Jessen-Wright Structural Engineers
113 West 8th Avenue, Suite A
Chico, California 95926
530. 894. 5345

Civil Engineer
Siegfried Engineering, Inc.
4045 Coronado Avenue
Stockton, California 95204
209. 943. 2021

Plumbing Designer — Design/Builder HRM Plumbing 3650 Wilcox Road Stockton, California 95215 209. 931. 9650

Electrical Designer - Design/Builder Collins Electrical 611 W. Fremont Street Stockton, California 92503 209. 466. 3691

Mechanical Designer — Design/Builder Comfort Air 1607 Turnpike Road Stockton. California 95201 209. 466. 4601

CONST. DOCUMENTS

PERMIT SET 09-17-04



ELECTRICAL DETAILS

SHEET TITLE

DATE

17, SEPTEMBER 2004

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PROJECT NO: H N A 2320 August 2001

Nonresidential Compliance Form

August 2001

A B C D E ROOM # PORTABLE LIGHTING DESCRIPTION (S) PER TASK AREA (SF) TASK AREA TASK AREA (SF) TASK AREA	NAME	L LIOI		WORKSH	I San Ban I	(Part 3 of 3)	DATE	LTG-1
ROOM # OR ZONE ID DEFAULT (WATTS) (SF) 0.2 0.2 0.2 0.2 0.2 0.2 0.2 TOTAL FABLE 1B - PORTABLE LIGHTING SHOWN ON PLANS FOR OFFICE AREA > ROOM # DESCRIPTION (S) PER TASK AREA (SF) TASK AREA TOTAL FABLE 1C - PLANS SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE ROOM # OR ZONE ID FABLE 1C - PLANS SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE ROOM # OR ZONE ID TOTAL FABLE 1C - PLANS SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE ROOM # OR ZONE ID SEPTIMENTAL SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE ROOM # OR ZONE ID SEPTIMENTAL SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE ROOM # OR ZONE ID SEPTIMENTAL SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE ROOM # OR ZONE ID SEPTIMENTAL SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE ROOM # OR ZONE ID SEPTIMENTAL SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE ROOM # OR ZONE ID SEPTIMENTAL SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE ROOM # OR ZONE ID SEPTIMENTAL SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE ROOM # OR ZONE ID SEPTIMENTAL SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE ROOM # OR ZONE ID SEPTIMENTAL SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE ROOM # OR ZONE ID SEPTIMENTAL SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE ROOM # OR ZONE ID SEPTIMENTAL SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE ROOM # OR ZONE ID SEPTIMENTAL SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE ROOM # OR ZONE ID SEPTIMENTAL SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE ROOM # OR ZONE ID SEPTIMENTAL SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE ROOM # OR ZONE ID SEPTIMENTAL SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE ROOM # OR ZONE ID SEPTIMENTAL SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE ROOM # OR ZONE ID SEPTIMENTAL SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE ROOM # OR ZONE ID SEPTIMENTAL SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE ROOM # OR ZONE ID SEPTIMENTAL SHOW PORTABLE LIGHTING I	1A - PC	ORTABLE I	LIGHTING	G NOT SHOWN	N ON PLANS F	OR OFFICE AI	REA > 250 SQU	ARE FEET
OR ZONE ID DEFAULT (WATTS) 0.2 0.2 0.2 0.2 0.2 TOTAL TABLE 1B - PORTABLE LIGHTING SHOWN ON PLANS FOR OFFICE AREA > A B C D E ROOM # OR ZONE ID PORTABLE LIGHTING DESCRIPTION (S) PER TASK AREA AREA DESCRIPTION (S) PER TASK AREA TASK AREA TASK AREA TASK AREA TASK AREA TASK AREA TOTAL TOTAL TABLE 1C - PLANS SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE ROOM # OR ZONE ID TOTAL TOTAL TOTAL TOTAL TOTAL Designer need to provide detailed documents the overhead lighting meets the needs of the types, CU, and mounting locations relative to	A			В		С		D
A B C D E ROOM # DESCRIPTION (S) PER TASK AREA (SF) NUMBER OF TASK AREA TASK AREA TOTAL TOTAL TOTAL TOTAL Designer need to provide detailed documents the overhead lighting meets the needs of the types, CU, and mounting locations relative to			DE	0.2 0.2 0.2 0.2 0.2 0.2				L WATTS BxC)
ROOM # DESCRIPTION (S) PER TASK AREA (SF) NUMBER OF TASK AREA TASK AREA TOTAL TOTAL ROOM # OR ZONE ID TOTAL TOTAL TOTAL TOTAL ROOM # OR ZONE ID (SF) Designer need to provide detailed documents the overhead lighting meets the needs of the types, CU, and mounting locations relative to	1B - PC	ORTABLE I	IGHTING			OFFICE AREA >	> 250 SQUARE	FEET
TABLE 1C - PLANS SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE ROOM # TOTAL AREA OR ZONE ID (SF) Designer need to provide detailed documents the overhead lighting meets the needs of the types, CU, and mounting locations relative to		PORTABLE LI	V (S) PER	LUMINAIRES (S) WATTS PER TASK	TASK AREA	NUMBER OF	F TOTAL AREA (SF) (DxE)	G TOTAL WATTS (CxE)
TABLE 1C - PLANS SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE ROOM # TOTAL AREA OR ZONE ID (SF) Designer need to provide detailed documents the overhead lighting meets the needs of the types, CU, and mounting locations relative to								
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OR ZONE ID (SF) Designer need to provide detailed documentation the overhead lighting meets the needs of the						TOTAL		,
OR ZONE ID (SF) Designer need to provide detailed documentate the overhead lighting meets the needs of the types, CU, and mounting locations relative to		ANS SHOW			NOT REQUIR	ED FOR OFFICE	AREAS > 250 S	QUARE FEE
BUILDING SUMMARY - PORTABLE LIGHTING				[he overhead lighting i	meets the needs of the	space. the details incl	
	NG SUN	MMARY - P	ORTABL	1			TOTAL	
BUILDING SUMMARY TOTAL AREA (SF) (FROM TABLES 1A+1B+1C) (FROM TABLES 1A+1B+1C)	ILDING	SUMMA	RY	(SI	=)	(FR	TOTAL WATTS OM TABLES 1A+1B)	
BUILDING TOTAL		BUILDI	NG TOTAL					

Nonresidential Compliance Form

Nonresidential Compliance Form

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•	WATTS (From L	
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0001	TED ACTUAL W	ATTS 0 (1)
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		-
	AREA	ALLOWED
	(SF)	WATTS
	AREA	WATTS
AL.	_ 	ALLOWED WATT

IACTUAL LIG	DITING POWER				
LUMINAIRE NAME	TYPE DESCRIPTION	NUMBER OF LUMINAIRES	WATTS PER LUMINAII (Including Ballast)	RE CEC DEFAULT	? TOTAL WATTS
A1	PKGR FIX SM	15	100		0 (1)
Α	PKGR FIX SM	144	175		0 (1)
В	CORNER FL 1X4	30	32		0 (1)
С	GRDED FIX SM	2	32		0 (1)
D	FL SM 1X4	12	32		0 (1)
E	FL WRAP SM 1X4	6	32		0 (1)
F	EXIT FIX	14	N/A		0 (1)
G1	1-HID/10' POLE	1	100		0 (1)
G2	2 FIX/30' POLE	8	400		0 (1)
G3	3 FIX/30' POLE	6	400		0 (1)
Н	WALL PACK	3	250		0 (1)
	WALL FACK		230		
			SUBTO	TAL FROM THIS PA	$ \begin{array}{c c} & \\ & \\ & \\ & \\ & \\ & \\ & \\ & $
			PLUS SUBTOTAL FROM		<u> </u>
			PORTABLE LIGHTING		
			LESS CONTROL CRED	•	
				•	·
			ADJU	STED ACTUAL WAT	TS O (1)
ALLOWED L	IGHTING POWER (Choo	se One Method	d)		
COMPLETE	BUILDING METHOD				
	BUILDING CATEGORY (From § 146(b)) Table 1-M)	WATTS	COMPLETE	ALLOWED
		,	PER SF	BLDG. AREA	WATTS
AREA CATE	GORY METHOD				
	AREA CATEGORY (From § 146(b) T	Гable 1-N)	WATTS PER SF	AREA (SF)	ALLOWED WATTS
				\(\frac{\lambda}{\cdot \cdot \	WATIO
_					
-					
			TOTALS	AREA	WATTS
TAILORED N	METHOD				
			TOTAL	ALLOWED WATTS	
				(From LTG-4)	
Nonresidential Comp	oliance Form				August 2001
	ICHTINIC MAN		V MEACH	DEC	
L	LIGHTING MAN	NUAIUR	I WEASU	KE3	
	HIDING CDACE IC NO	T DIDECTLY	OD INDIDECTIV	/ CONDITION	JED DV ME
	ILDING SPACE IS NO				
	CH. COOLING, THEREF REQUIREMENTS.	TURE, BUILDII	ING OK BUILDII	NG SPACE I	S EXEMPT
71 IIILL 24	NLWUINLIVIO.				
OING LIGHTIN	NG SHUT-OFF				
	GHTING SHUT—OFF S	YSTEM CONS	ISTS OF AN A	UTOMATIC T	IME SWITCH
	OR EACH FLOOR: OR	-		•	
BUILDING IS	SEPARATELY METERI	ED AND LESS	S THAN 5,000	SQUARE FE	EET: EXEMP

	TOTALS AREA WATTS	
	TAILORED METHOD	
	TOTAL ALLOWED WATTS (From LTG-4)	
	Nonresidential Compliance Form August 2001	
	LIGHTING MANDATORY MEASURES	
\boxtimes	BUILDING OR BUILDING SPACE IS NOT DIRECTLY OR INDIRECTLY CONDITIONED BY MECH. HEATING OR MECH. COOLING, THEREFORE, BUILDING OR BUILDING SPACE IS EXEMPT FROM TITLE 24 REQUIREMENTS.	
	BUILDING LIGHTING SHUT-OFF THE BUILDING LIGHTING SHUT-OFF SYSTEM CONSISTS OF AN AUTOMATIC TIME SWITCH, WITH A ZONE FOR EACH FLOOR: OR	
	THE BUILDING IS SEPARATELY METERED AND LESS THAN 5,000 SQUARE FEET: EXEMPT FROM THE SHUT-OFF REQUIREMENT.	
	OVERRIDE FOR BUILDING LIGHTING SHUT-OFF THE AUTOMATIC BUILDING SHUT-OFF SYSTEM IS PROVIDED WITH A MANUAL, ACCESSIBLE OVERRIDE SWITCH IN SIGHT OF THE LIGHTS. THE AREA OF OVERRIDE IS NOT TO EXCEED 5,000 sf.	
	AUTOMATIC CONTROL DEVICES CERTIFIED ALL AUTOMATIC CONTROL DEVICES SPECIFIED ARE CERTIFIED, ALL ALTERNATE EQUIPMENT SHALL BE CERTIFIED AND INSTALLED AS DIRECTED BY THE MANUFACTURER.	
	FLUORESCENT BALLAST AND LUMINARIES CERTIFIED ALL FLUORESCENT FIXTURES SPECIFIED FOR THE PROJECT ARE CERTIFIED AND LISTED IN THE DIRECTORY. ALL INSTALLED FIXTURES SHALL BE CERTIFIED.	
	TANDEM WIRING FOR TWO-LAMP BALLAST'S ALL ONE AND THREE LAMP FLUORESCENT FIXTURES ARE TANDEM WIRED WITH TWO (2) LAMP BALLAST WHERE REQUIRED BY STANDARDS #132; OR	
	ALL THREE LAMP FLUORESCENT FIXTURES ARE SPECIFIED WITH ELECTRONIC HIGH—FREQUENCY BALLAST'S AND ARE EXEMPT FROM TWO-LAMP TANDEM WIRING REQUIREMENTS.	
	INDIVIDUAL ROOM/AREA CONTROLS EACH ROOM AND AREA IN THIS BUILDING IS EQUIPPED WITH A SEPARATE SWITCH OR OCCUPANCY SENSOR DEVICE FOR EACH AREA WITH FLOOR—TO—CEILING WALLS.	
	UNIFORM REDUCTION FOR INDIVIDUAL ROOMS ALL ROOMS AND AREAS GREATER THAN 100 SQUARE FEET AND MORE THAN 1.2 WATTS PER SQUARE FOOT OF LIGHTING LOAD SHALL BE CONTROLLED WITH BI-LEVEL SWITCHING FOR UNIFORM REDUCTION OF LIGHTING WITHIN THE ROOM.	
	DAYLIT AREA CONTROL ALL ROOMS WITH WINDOWS AND SKYLIGHTS, THAT ARE GREATER THAN 250 SQUARE FEET, AND THAT ALLOW FOR THE EFFECTIVE USE OF DAYLIGHT IN THE AREA SHALL HAVE 50% OF THE LAMPS IN EACH DAYLIT AREA CONTROLLED BY A SEPARATE SWITCH; OR	
	THE EFFECTIVE USE OF DAYLIGHT THROUGH CANNOT BE ACCOMPLISHED BECAUSE THE WINDOWS ARE CONTINUOUSLY SHADED BY A BUILDING ON THE ADJACENT LOT. DIAGRAM OF SHADING DURING DIFFERENT TIMES OF YEAR IS INCLUDED ON PLANS.	
	CONTROL OF EXTERIOR LIGHTS EXTERIOR MOUNTED FIXTURES AND SERVED FROM THE ELECTRICAL PANEL INSIDE THE BUILDING ARE CONTROLLED WITH A DIRECTIONAL PHOTO CELL CONTROL ON THE ROOF AND A CORRESPONDING RELAY IN THE ELECTRICAL PANEL.	
reside	ential Compliance Form August 2001	

CERTIFICATE	OF COMPLIANCE	(Part 1 of 3)	LTG-
PROJECT NAME STOCKT	ON ARENA PARKING STRU	JCTURE	DATE 09-17-04
PROJECT ADDRESS			
STOCKT PRINCIPAL DESIGNER-LIGHT	ON, CALIFORNIA	TELEPHONE	Building Permit #
DEBORAH SCHOUTE		(209) 466-9136 EXT 303	1
DOCUMENTATION AUTHOR DEBORAH SCHOUTE	N	TELEPHONE (209) 466-9136 EXT 303	Checked by/Date 33 Enforcement Agency Us
GENERAL INFORM	ATION		
DATE OF PLANS	BUILDING CONDITIONED	FLOOR AREA O	CLIMATE ZONE
BUILDING TYPE	NONRESIDENTIAL	☐ HIGH RISE RESIDENTIAL	HOTEL/MOTEL GUES
PHASE OF CONSTRUCTION		ADDITION ALTERATION	UNCONDITIONED (file a
METHOD OF LIGHTING COMP	PLIANCE COMPLETE BLDG.	AREA CATEGORY TAI	LORED PERFORMAN
STATEMENT OF CO	OMPLIANCE		
This Certificate of Complia	ance lists the building features and	d performance specifications need	d to comply with Title 24, Par
	ode of Regulations. This certificat		•
The documentation prepa	rer hereby certifies that the docun	nentation is accurate and complete	9.
DEBORAH SCHOUT		GNATURE	DATE 09-17-
documents is consistent we calculations submitted with requirements contained in Please check one: I hereby affirm that I am	with the other compliance forms are the his permit application. The protection the applicable parts of Sections of Englished under the provisions of Englished	posed building has been designed 110, 119, 130 through 132, 146, a Division 3 of the Business and Pro	ions, and with any other d to meet the lighting and 149 of Title 24, Part 6. ofessions Code to sign this
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PROJEC	TNAME STOCKTON A	RENA PARK	ING S	TRUCTUE	RE		[DATE OS	9-17-0)4
INSTA	LLED LIGHTING	SCHEDULE					<u>'</u>			
	LUMINAIRE	TYPE	AMPS No. of	Watts	BALLAST TYPE	No. of	LUMII No. of	NAIRE Watts/		OTAL
Name	DESCRIPTION	DESCRIPTION	I .	Per Lamp	DESCRIPTION	Ballast	Lumin.	Lumin.	1	OTAL /ATTS
41	PKGR FIX SM	HID	1	100	ET	1	15	118	0 1	
٨	PKGR FIX SM	HID .	1	175	ET	1	144	208	0 1	
3	CORNER FL 1X4	Т8	2	32	ET	1	30	64	0 (1)	
	GRDED FIX SM	32 TRT	1	32	ET	1	2	36	0 (1)	
)	FL SM 1X4	Т8	2	32	ET	1	12	64	0 1	
<u> </u>	FL WRAP SM 1X4	Т8	2	32	ET	1	6	64	0 (1)	
-	EXIT FIX	LED	N/A	N/A	ET	1	14	5	0 (1)	,
G1	1-HID/10' POLE	HID	1	100	ET	1	1	118	0 (1)	
 32	2 FIX/30' POLE	HID	1	400	ET	1	8	452	0 (1)	
33	3 FIX/30' POLE	HID	1	400	ET	1	6	452	0 (1)	•
	WALL PACK	HID	1	250	ET	1	3	275	0 (1)	
	ntrol Requirements of § 131(f) UILDING OR BUILDING SPACE R INDIRECTLY CONDITIONED INTERFORE, BUILDING OR BUILDING	IS NOT DIRECTLY	r G OR ME EXEMPT (Li	ORTABLE LIGHT ESS CONTROL C REQUIREMENTS. /	REDIT W	ATTS (Fro	om LTG-3)		
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MANE CONTR	PILDING OR BUILDING SPACE INDIRECTLY CONDITIONED INTEREFORE, BUILDING OR BUILD	IS NOT DIRECTLY BY MECH. HEATIN LDING SPACE IS B TIC CONTR CONTROL DENTIFICATION	COLS	CONTROL 1	REQUIREMENTS. /	REDIT W.	ATTS (Fro	om LTG-3)	(a)	

PARKING STOCKTON, OWNER: City of Stockton DESIGN BUILDER: F&H Construction 4945 Waterloo Road Stockton, California 95215 209. 931. 3738 CONSULTANTS: Architect — Parking Consultant 61 Sea Breeze Avenue Rancho Palos Verdes, California 90: 310. 544. 8670 Design Architect Wenell Mattheis Bowe 246 E. Main Street Stockton, California 95202 209. 944. 9110 Structural Engineer Jessen-Wright Structural Enginee 113 West 8th Avenue, Suite A Chico, California 95926 530. 894. 5345 Siegfried Engineering, Inc. 4045 Coronado Avenue Stockton, California 95204 209. 943. 2021 Plumbing Designer - Design/Builder HRM Plumbing 3650 Wilcox Road Stockton, California 95215 209. 931. 9650 Electrical Designer — Design/Builder Collins Electrical 611 W. Fremont Street Stockton, California 92503 209. 466. 3691 Mechanical Designer — Design/Builder 1607 Turnpike Road Stockton. California 95201 209. 466. 4601 CONST. DOCUMENTS REVISIONS:

CALIFORNIA

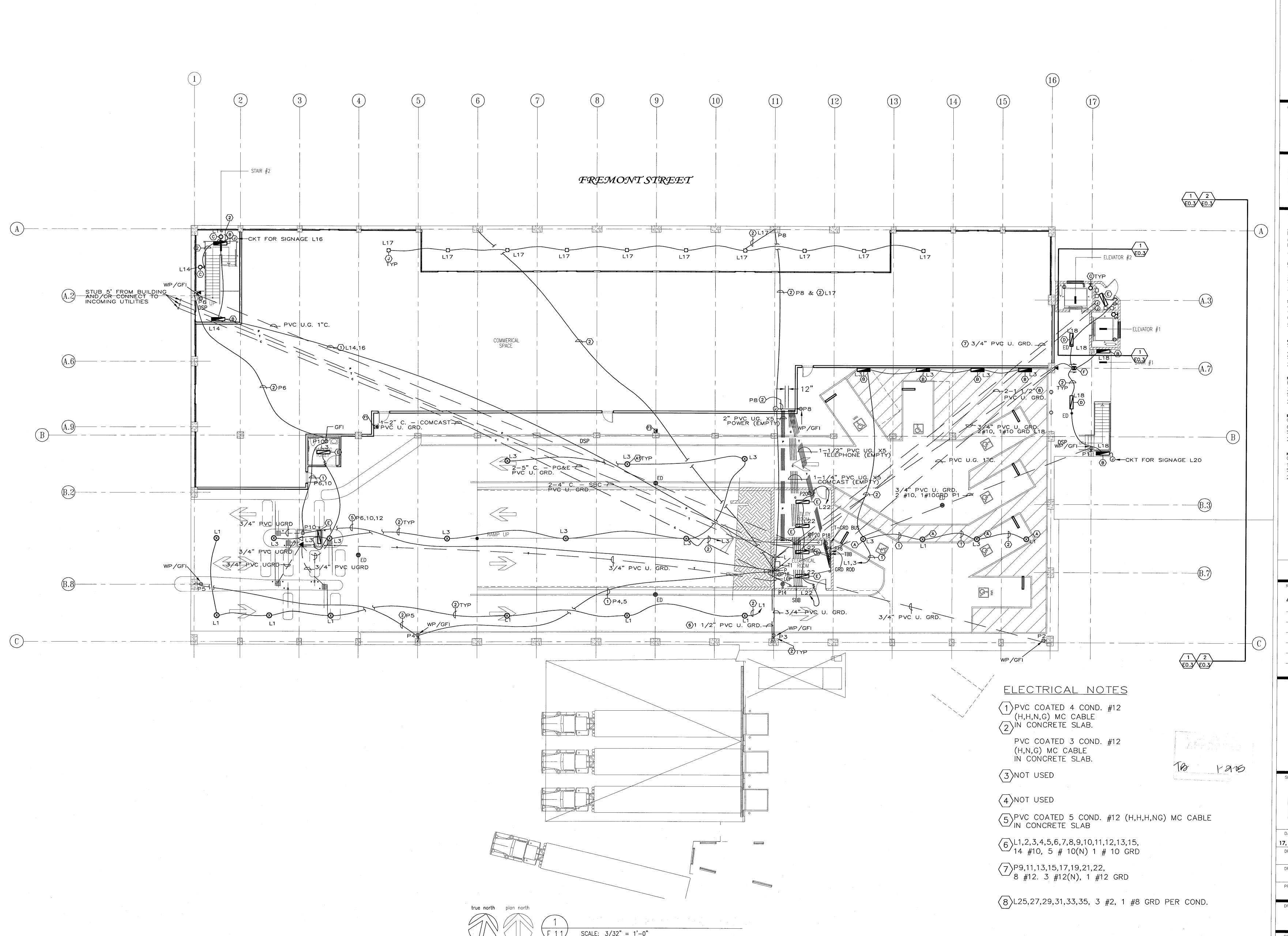
PERMIT SET	09-17-04
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PROFESSION OF CALLS	NATURI NEEP *
SHEET TITLE	Agrico II

TITLE 24

17, SEPTEMBER 2004 N/A CHECKED BY RMFA DRAWING NO. 4 OF 11 PROGRAM NO.

DRAWING NO: E0.4

MERM BAKESTA APPROVED



OF STOCKTON ARENA PARKING STRUCTURE

OWNER:

City of Stockton

DESIGN BUILDER:

CALIFORNIA

F&H Construction
4945 Waterloo Road
Stockton, California 95215
209. 931. 3738

CONSULTANTS:

Architect - Parking Consultant
HNA / Pacific
61 Sea Breeze Avenue
Rancho Palos Verdes, California 9027:
310. 544. 8670

Design Architect Wenell Mattheis Bowe 246 E. Main Street Stockton, California 95202 209. 944. 9110

Structural Engineer
Jessen-Wright Structural Engineers
113 West 8th Avenue, Suite A
Chico, California 95926
530. 894. 5345

Civil Engineer
Siegfried Engineering, Inc.
4045 Coronado Avenue
Stockton, California 95204
209. 943. 2021

Plumbing Designer — Design/Builder HRM Plumbing 3650 Wilcox Road Stockton, California 95215 209. 931. 9650

Electrical Designer - Design/Builder Collins Electrical 611 W. Fremont Street Stockton, California 92503 209. 466. 3691

Mechanical Designer — Design/Builder Comfort Air 1607 Turnpike Road Stockton, California 95201 209, 466, 4601

CONST. DOCUMENTS

REVISIONS:

OP-17-04

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LEVEL P-1 PWR & LTG

DATE

17, SEPTEMBER 2004

DRAWN BY

CHECKED BY

CHECKED BY

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DRAWING NO.

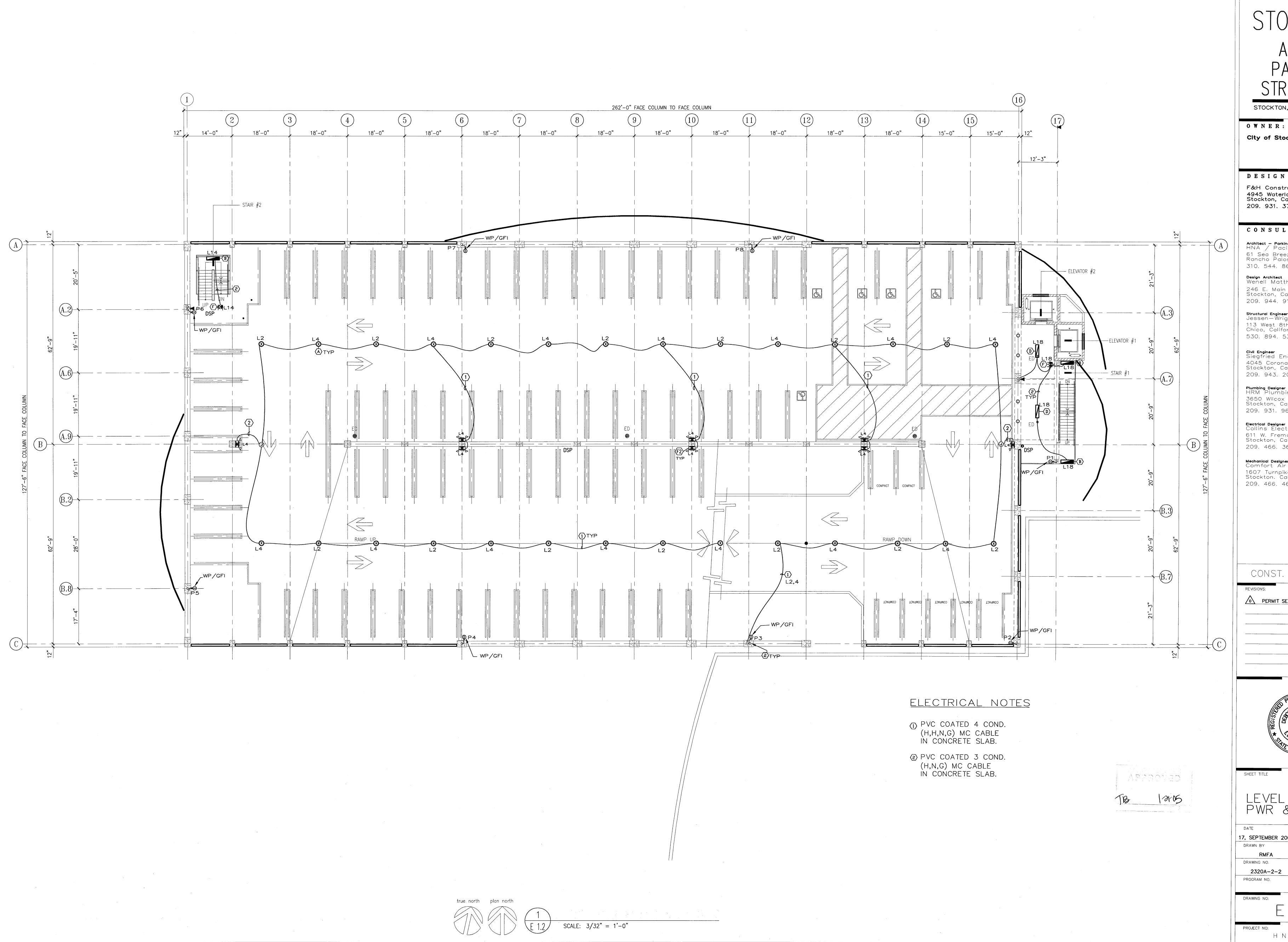
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5 OF 11

PROGRAM NO.

DRAWING NO:

E 1.1



STOCKTON, CALIFORNIA

City of Stockton

DESIGN BUILDER:

F&H Construction 4945 Waterloo Road Stockton, California 95215 209. 931. 3738

CONSULTANTS:

Architect - Parking Consultant HNA / Pacific

61 Sea Breeze Avenue Rancho Palos Verdes, California 9027: 310. 544. 8670

Design Architect Wenell Mattheis Bowe 246 E. Main Street Stockton, California 95202 209. 944. 9110

Structural Engineer Jessen-Wright Structural Engineers 113 West 8th Avenue, Suite A Chico, California 95926 530. 894. 5345

Civil Engineer Siegfried Engineering, Inc. 4045 Coronado Avenue Stockton, California 95204 209. 943. 2021

Plumbing Designer – Design/Builder HRM Plumbing 3650 Wilcox Road Stockton, California 95215 209. 931. 9650

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Mechanical Designer — Design/Builder Comfort Air 1607 Turnpike Road Stockton. California 95201 209. 466. 4601

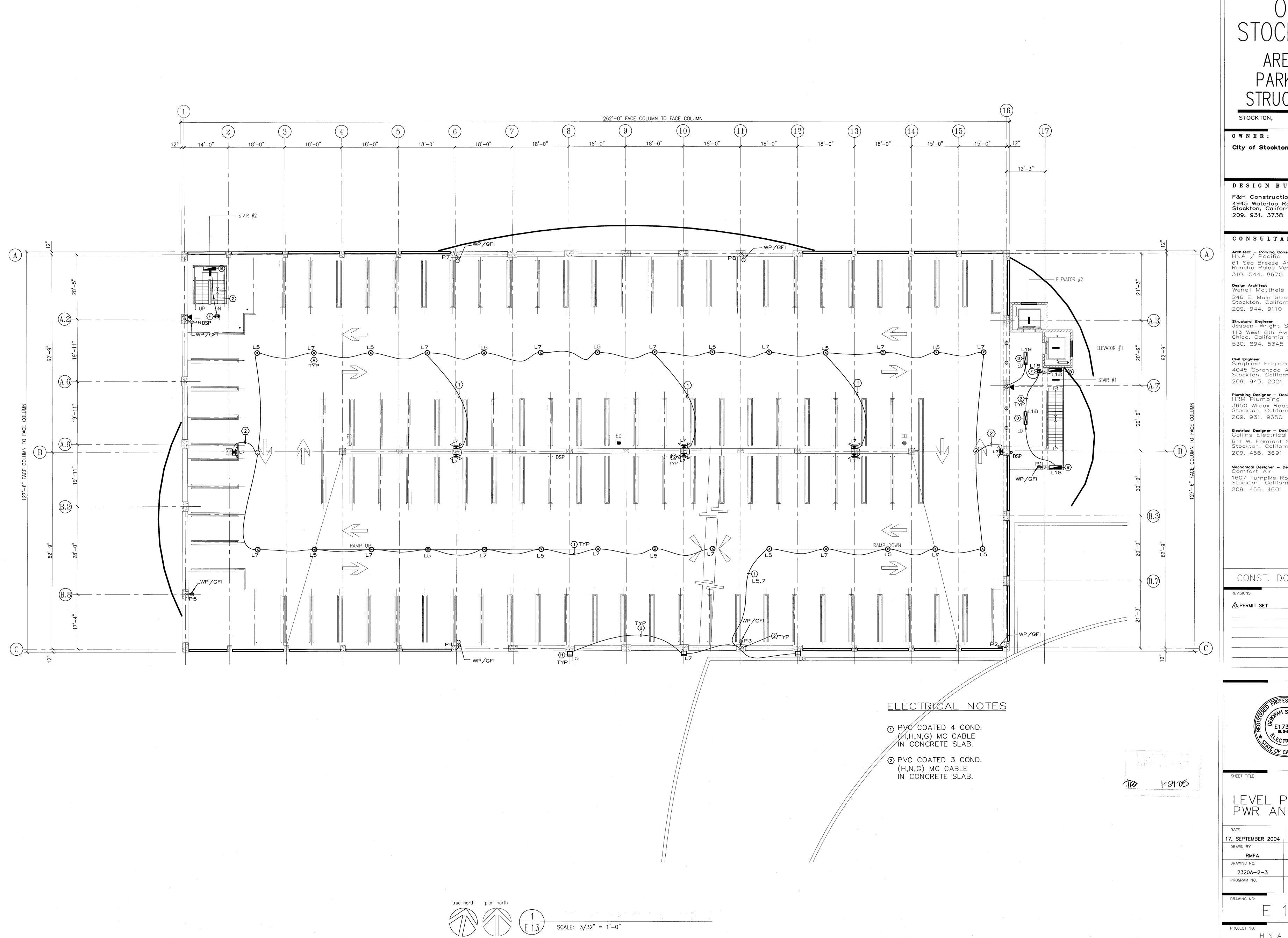
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09-17-04

PERMIT SET

LEVEL P-2 PWR & LTG

17, SEPTEMBER 2004 3/32" = 1'-0" 2320A-2-2



STOCKTON, CALIFORNIA

OWNER:

City of Stockton

DESIGN BUILDER:

F&H Construction 4945 Waterloo Road Stockton, California 95215

CONSULTANTS:

Architect - Parking Consultant HNA / Pacific

61 Sea Breeze Avenue Rancho Palos Verdes, California 9027: 310. 544. 8670

Design Architect Wenell Mattheis Bowe 246 E. Main Street Stockton, California 95202

Structural Engineer Jessen-Wright Structural Engineers 113 West 8th Avenue, Suite A Chico, California 95926

Civil Engineer Siegfried Engineering, Inc. 4045 Coronado Avenue Stockton, California 95204 209. 943. 2021

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Mechanical Designer — Design/Builder Comfort Air 1607 Turnpike Road Stockton. California 95201 209. 466. 4601

CONST. DOCUMENTS

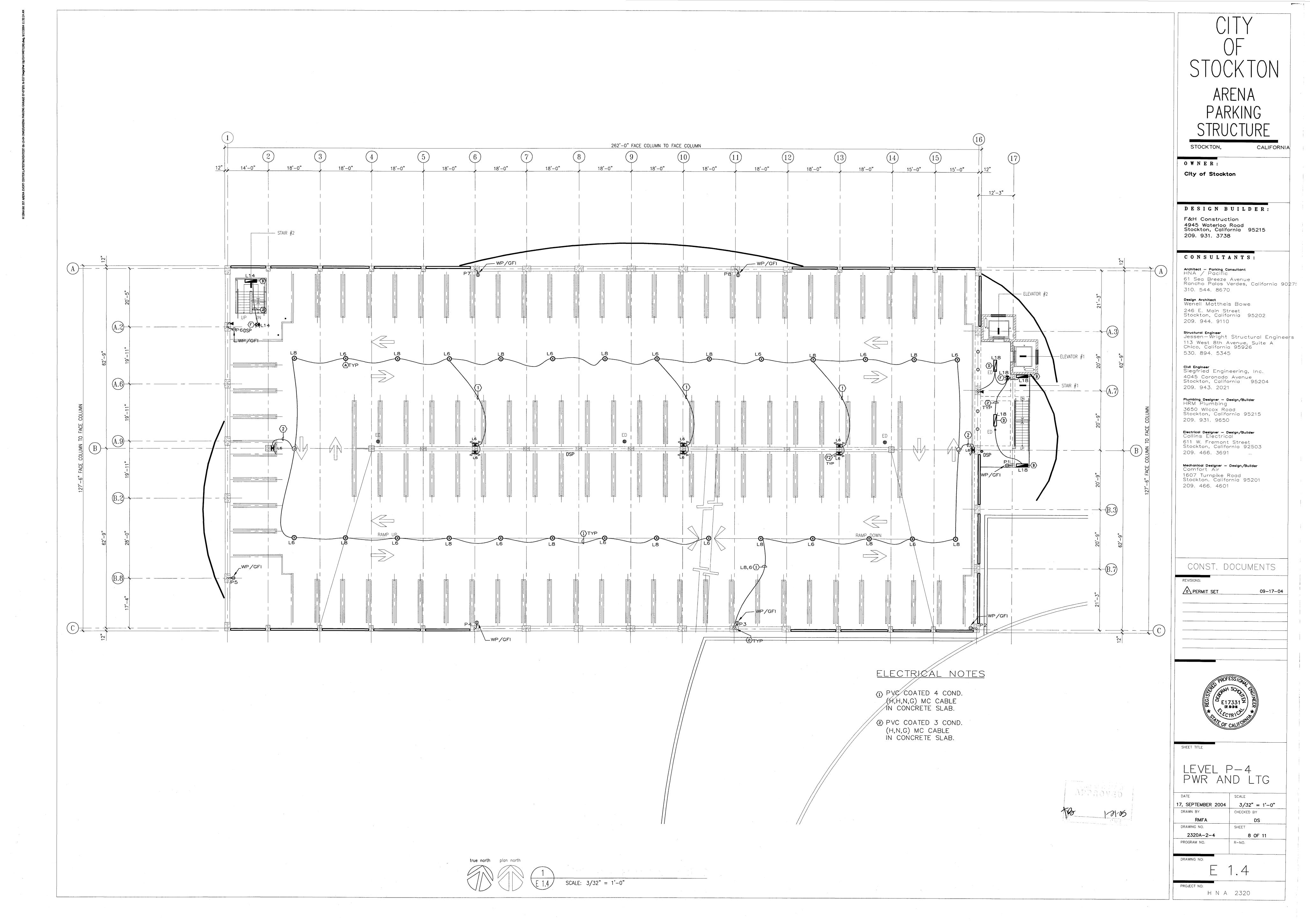
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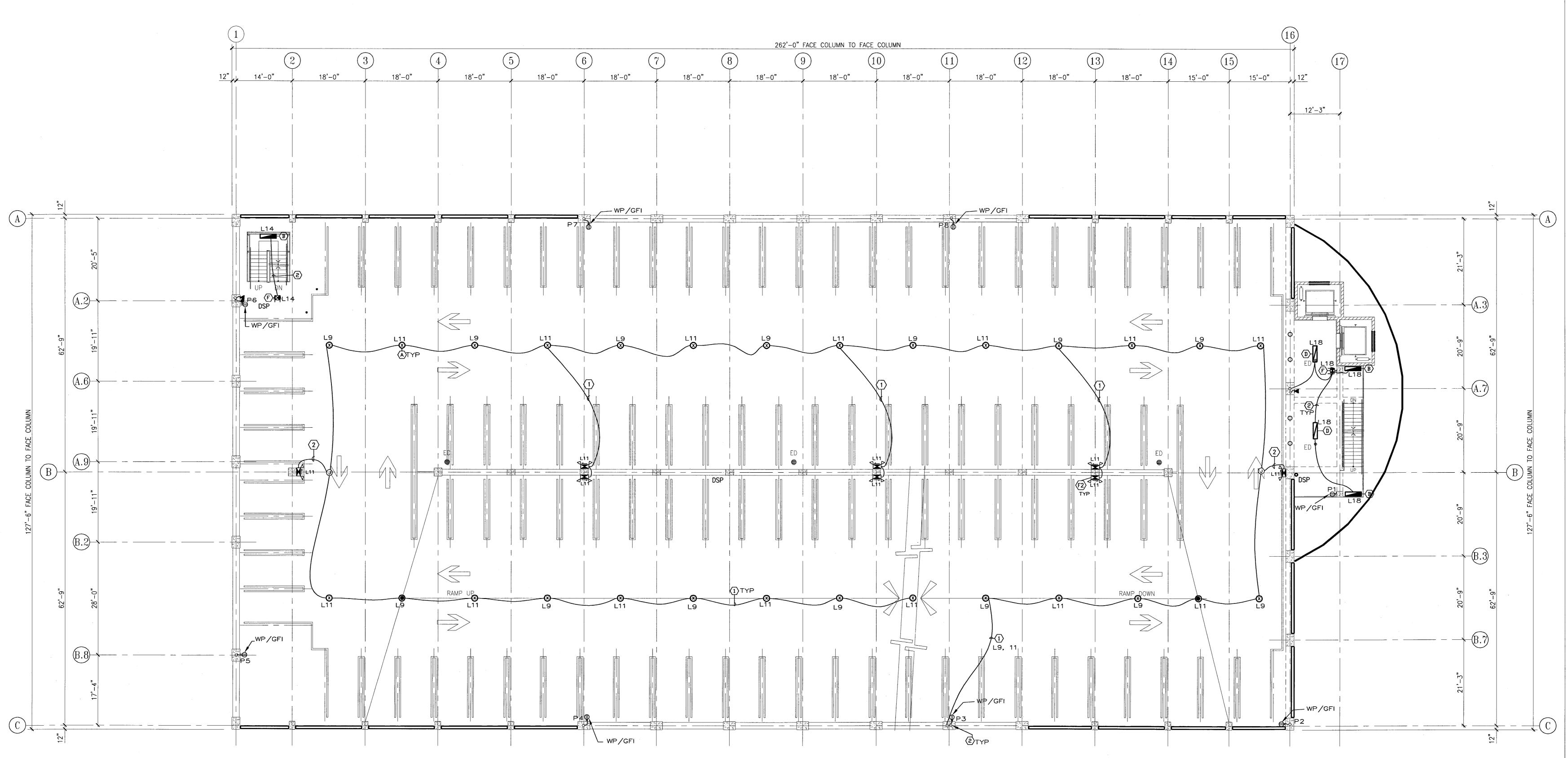
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LEVEL P-3 PWR AND LGT

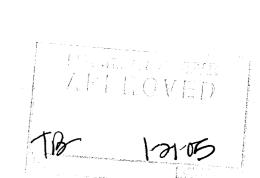
DATE	SCALE
17, SEPTEMBER 2004	3/32" = 1'-0'
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RMFA	DS
DRAWING NO.	SHEET
2320A-2-3	7 OF 11
PROGRAM NO.	R-NO.

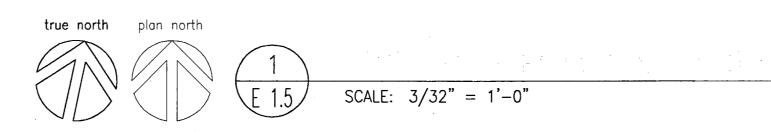




ELECTRICAL NOTES

- ① PVC COATED 4 COND. (H,H,N,G) MC CABLE IN CONCRETE SLAB.
- ② PVC COATED 3 COND. (H,N,G) MC CABLE IN CONCRETE SLAB.





ARENA

CALIFORNIA

OWNER:

City of Stockton

STOCKTON,

DESIGN BUILDER:

F&H Construction 4945 Waterloo Road Stockton, California 95215 209. 931. 3738

CONSULTANTS:

Architect - Parking Consultant HNA / Pacific

61 Sea Breeze Avenue Rancho Palos Verdes, California 9027: 310. 544. 8670

Design Architect Wenell Mattheis Bowe 246 E. Main Street Stockton, California 95202 209. 944. 9110

Structural Engineer Jessen-Wright Structural Engineers 113 West 8th Avenue, Suite A Chico, California 95926 530. 894. 5345

Civil Engineer Siegfried Engineering, Inc. 4045 Coronado Avenue Stockton, California 95204 209. 943. 2021

Plumbing Designer – Design/Builder HRM Plumbing 3650 Wilcox Road Stockton, California 95215 209. 931. 9650

Electrical Designer — Design/Builder Collins Electrical 611 W. Fremont Street Stockton, California 92503 209. 466. 3691

Mechanical Designer — Design/Builder Comfort Air 1607 Turnpike Road Stockton. California 95201 209. 466. 4601

CONST. DOCUMENTS

09-17-04

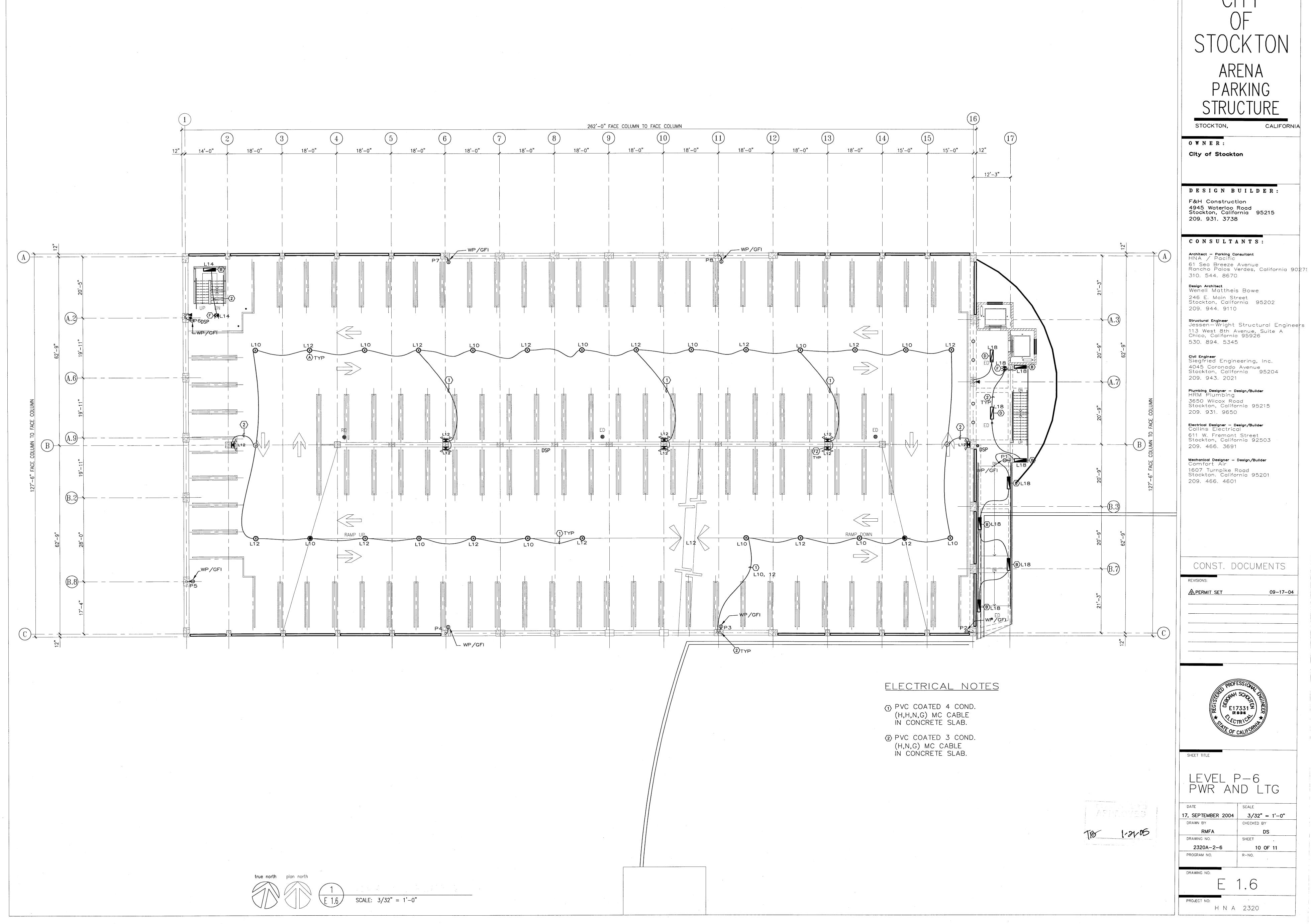
REVISIONS:

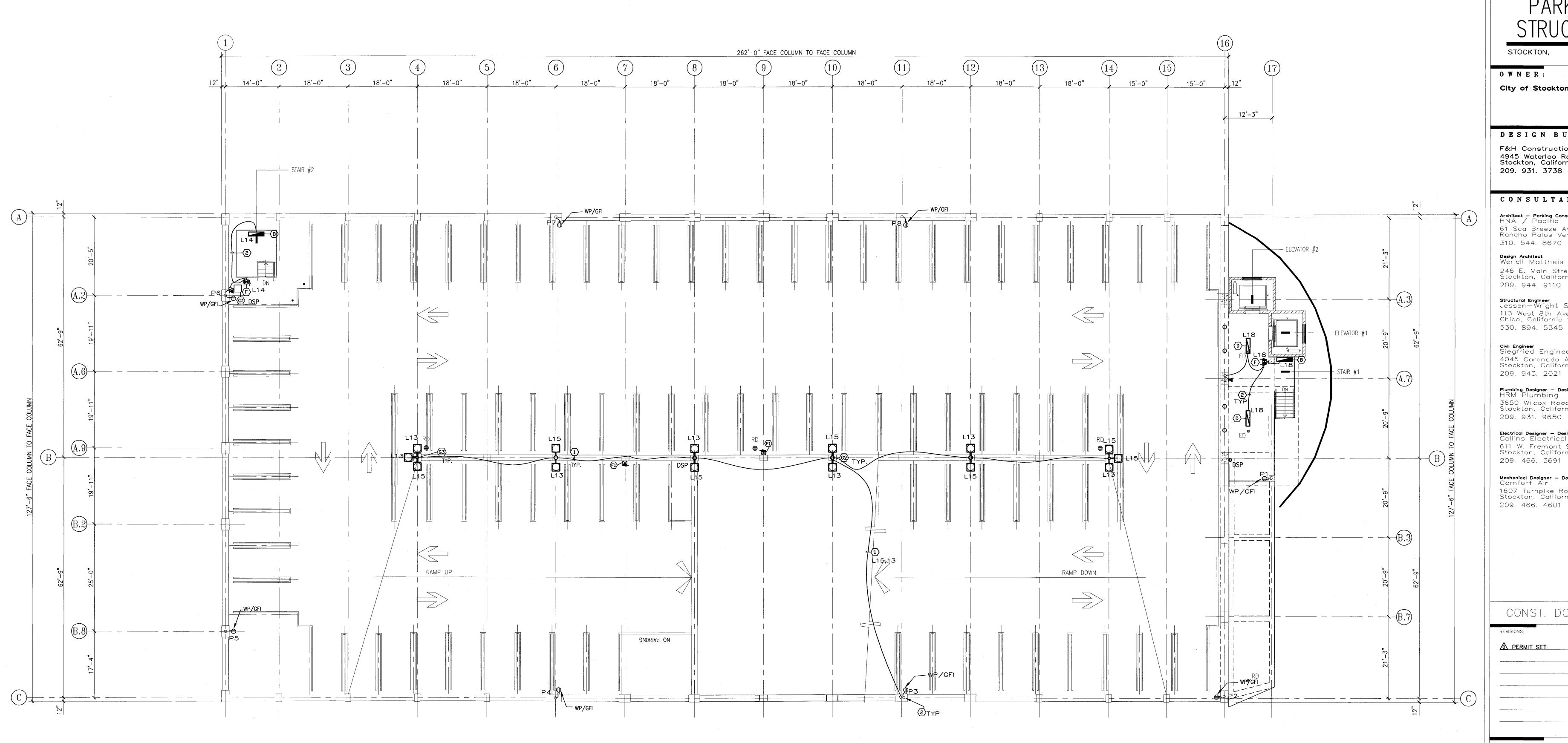
PERMIT SET

LEVEL P-5 PWR AND LTG

17, SEPTEMBER 2004 3/32" = 1'-0"

DRAWN BY CHECKED BY DRAWING NO. 2320A-2-5 9 OF 11





ELECTRICAL NOTES

1) PVC COATED 4 COND. (H,H,N,G) MC CABLE IN CONCRETE SLAB.

② PVC COATED 3 COND. (H,N,G) MC CABLE IN CONCRETE SLAB.

ARENA

OWNER:

STOCKTON,

City of Stockton

DESIGN BUILDER:

CALIFORNIA

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CONST. DOCUMENTS

09-17-04

A PERMIT SET



LEVEL P-7 PWR & LTG

SHEET TITLE

17, SEPTEMBER 2004 3/32" = 1'-0"

DRAWN BY CHECKED BY 2320A-2-7 11 OF 11