

HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY)

P.C. NO. 11645-PS
PARCEL MAP NO. 26363
LOS ANGELES COUNTY

NOTES

- NO PERMITS SHALL BE ISSUED FOR ANY CONNECTIONS DISCHARGING SEWAGE GENERATED OUTSIDE THE BOUNDARY LIMITS OF PM 26363, IF PM 18108, OR ANY OTHER PARCEL, TRACT, OR PROPERTY OUTSIDE THESE BOUNDARIES REQUIRES A CONNECTION TO THE HANCOCK PARKWAY SEWER LIFT STATION (PC 11645-PS) FOR SEWER SERVICE, IT SHALL BE THAT PROPERTY OWNER'S RESPONSIBILITY TO RELOCATE AND/OR UPGRADE THE HANCOCK PARKWAY SEWER LIFT STATION, AT THEIR OWN EXPENSE, SO THAT NO MORE THAN ONE SEWER LIFT STATION DISCHARGING INTO THIS SYSTEM IS OPERATIONAL AT ANY GIVEN TIME.
- THE HANCOCK PARKWAY SEWER LIFT STATION IS PHASE 1 OF THE SEWER IMPROVEMENTS FOR PM 26363 AND SHALL REMAIN IN PLACE FOR SEVEN YEARS AFTER THE DATE OF ACCEPTANCE. AFTER THAT TIME A GRAVITY OUTLET MUST BE IN PLACE TO PROVIDE SEWER SERVICE FOR PM 26363 AND ALL DEVELOPMENT UPSTREAM OF THIS LOCATION. IF A GRAVITY OUTLET IS NOT IN PLACE AT THAT TIME, PRINCIPAL OF SECURITY WILL BE RESPONSIBLE FOR CONSTRUCTION OF PHASE 2 SEWER IMPROVEMENTS FOR PM 26363. THESE IMPROVEMENTS WILL CONSIST OF DUAL FORCE MAIN UPGRADES TO THE EXISTING COMMERCE CENTER DRIVE SEWER LIFT STATION TO THE SATISFACTION OF PUBLIC WORKS. ALL SECURITIES COLLECTED FOR THE CONSTRUCTION OF PHASE 2 SHALL REMAIN IN PLACE UNTIL A GRAVITY OUTLET FOR THIS SYSTEM IS IN PLACE OR UNTIL ALL PHASE 2 IMPROVEMENTS ARE CONSTRUCTED AND ACCEPTED FOR PUBLIC USE.
- UPON COMPLETION AND ACCEPTANCE OF THE HANCOCK PARK SEWER LIFT STATION THE EXISTING 18" VCP SEWER LINE ON COMMERCE CENTER DRIVE CONSTRUCTED PER PC 11645 SHALL BE CONNECTED TO THE EXISTING SEWER MANHOLE CONSTRUCTED PER PC 1120 AT STA. 9+33.99 (STA. 13+96.72 ON PC 11645).

NOTE:

THE SOILS ENGINEER OF RECORD SHALL INSPECT AND APPROVE THE FOUNDATION EXCAVATIONS BEFORE STEEL OR CONCRETE IS PLACED.

R.T. Frankian & Associates (RTF&A) has reviewed the geotechnical aspects of this plan. The plan is found to be in general conformance with the recommendations of the RTF&A geotechnical report(s) for this project dated: **8-20-07 & 10-12-07, JN 99-809**
RTF&A makes no representations as to the accuracy of dimensions, measurements, calculation, or any portion of the civil or structural design.
Alan W. Rasplich 6-5-09
Geotechnical Engineer Date
Timothy R. Leitch 6-5-09
Engineering Geologist Date

GEOTECHNICAL CONSULTANT'S APPROVAL

THESE PLANS HAVE BEEN REVIEWED AND ARE ACCEPTABLE IN REGARDS TO SOIL CONDITIONS AND CONFORMS TO THE RECOMMENDATIONS OF THE FOLLOWING SUPPORTIVE REPORTS BY R.T. FRANKIAN AND ASSOCIATES:

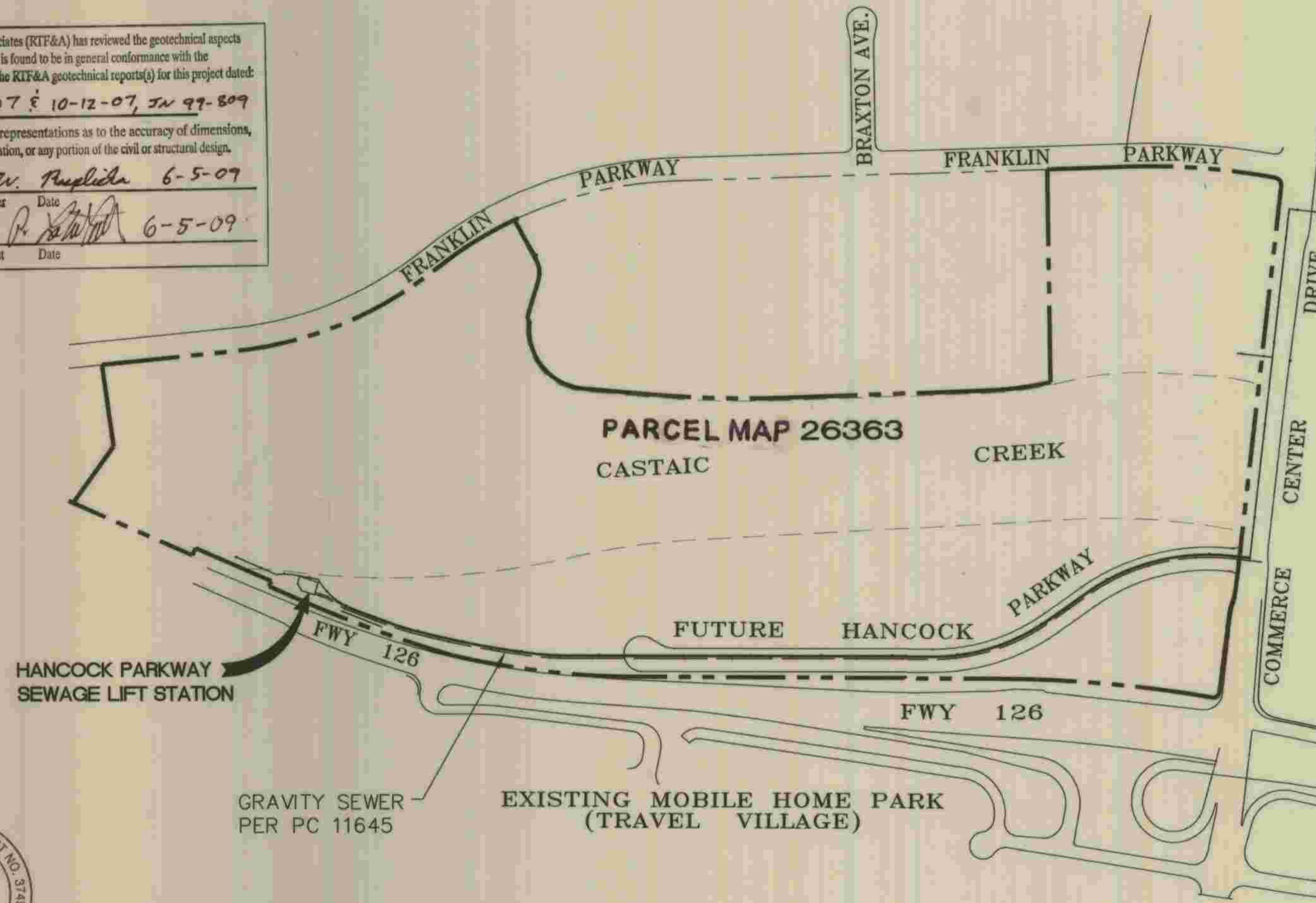
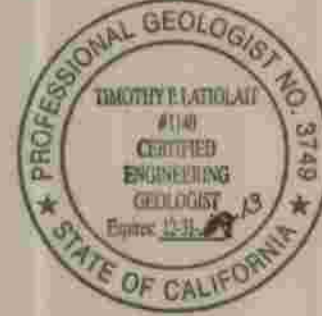
GEOTECHNICAL INVESTIGATION, PROPOSED SEWER PUMP STATION, PARCEL MAP NO. 26363, CASTAIC, CALIFORNIA, AUGUST 20, 2007, JOB NO. 99-809-01

RESPONSE TO COUNTY COMMENTS, PROPOSED SEWER PUMP STATION, PARCEL MAP 26363, CASTAIC, CALIFORNIA, OCTOBER 12, 2007, JOB NO. 99-809-22.

BY: *Alan W. Rasplich* 6-5-09
GEOTECHNICAL ENGINEER DATE

BY: *Timothy R. Leitch* 6-5-09
ENGINEERING GEOLOGIST DATE

COMPANY: R.T. FRANKIAN + ASSOCIATES



INDEX MAP

SCALE: NTS

P.C. 11645-PS PM NO. 26363
THOMAS GUIDE PAGE: 4549/G-1, H-1

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4	A-2.1	ELECTRICAL BUILDING FLOOR PLAN	36	M-4	MECHANICAL SECTION
5	A-2.2	ROOF PLAN AND SCHEDULES	37	M-5	MECHANICAL SECTION
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32	S-4.4	STRUCTURAL DETAILS			

APPROVED GAIL FARBER, DIRECTOR OF PUBLIC WORKS

BY: *Gail Farber* 2/29/12
ASSISTANT DEPUTY DIRECTOR DATE

RECOMMENDED LAND DEVELOPMENT DIVISION

BY: *[Signature]* 2/29/12
ASSISTANT DIVISION ENGINEER DATE

SUBMITTED

BY: *[Signature]* 10/19/2010
SUBDIVISION PLAN CHECKING STATION DATE



PLANS PREPARED BY
DEXTER WILSON ENGINEERING, INC.
CONSULTING ENGINEERS
2234 FARADAY AVENUE
CARLSBAD, CA 92008 (760) 438-4422

Andrew M. Oven 5-29-09
ANDREW M. OVEN DATE

DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY

REVIEWED FOR MAINTENANCE *[Signature]* 7/6/09
SEWER MAINTENANCE DIVISION DATE



REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

HANCOCK PARKWAY
SEWAGE LIFT STATION (TEMPORARY)
PARCEL MAP NO. 26363

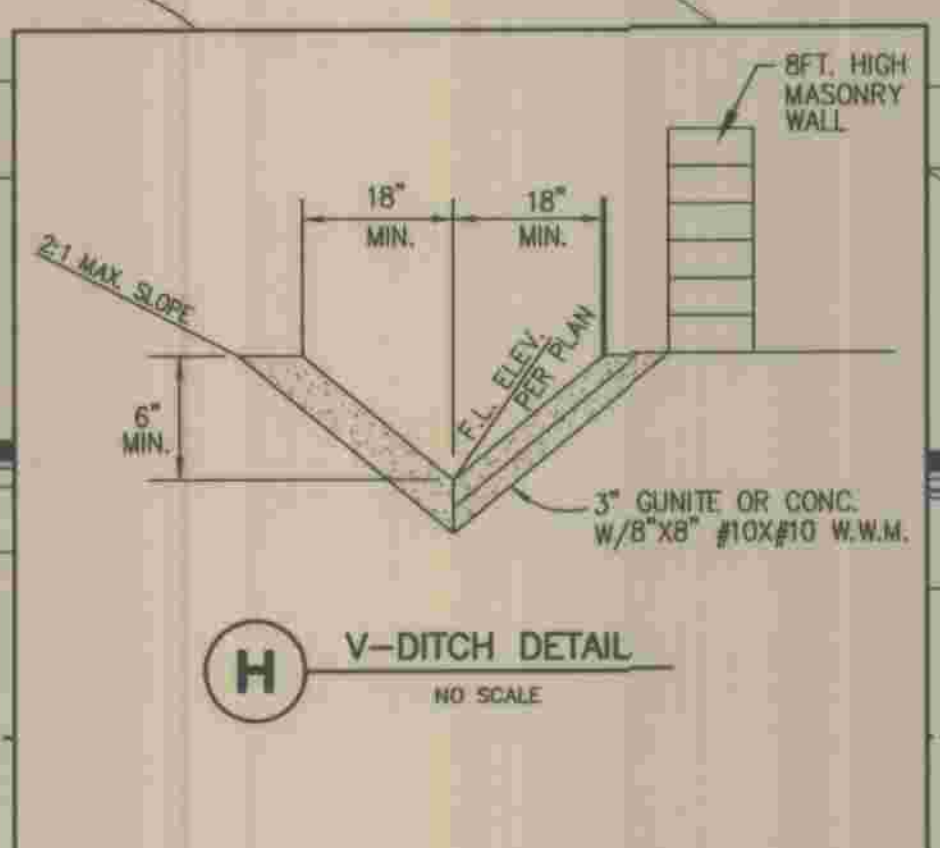
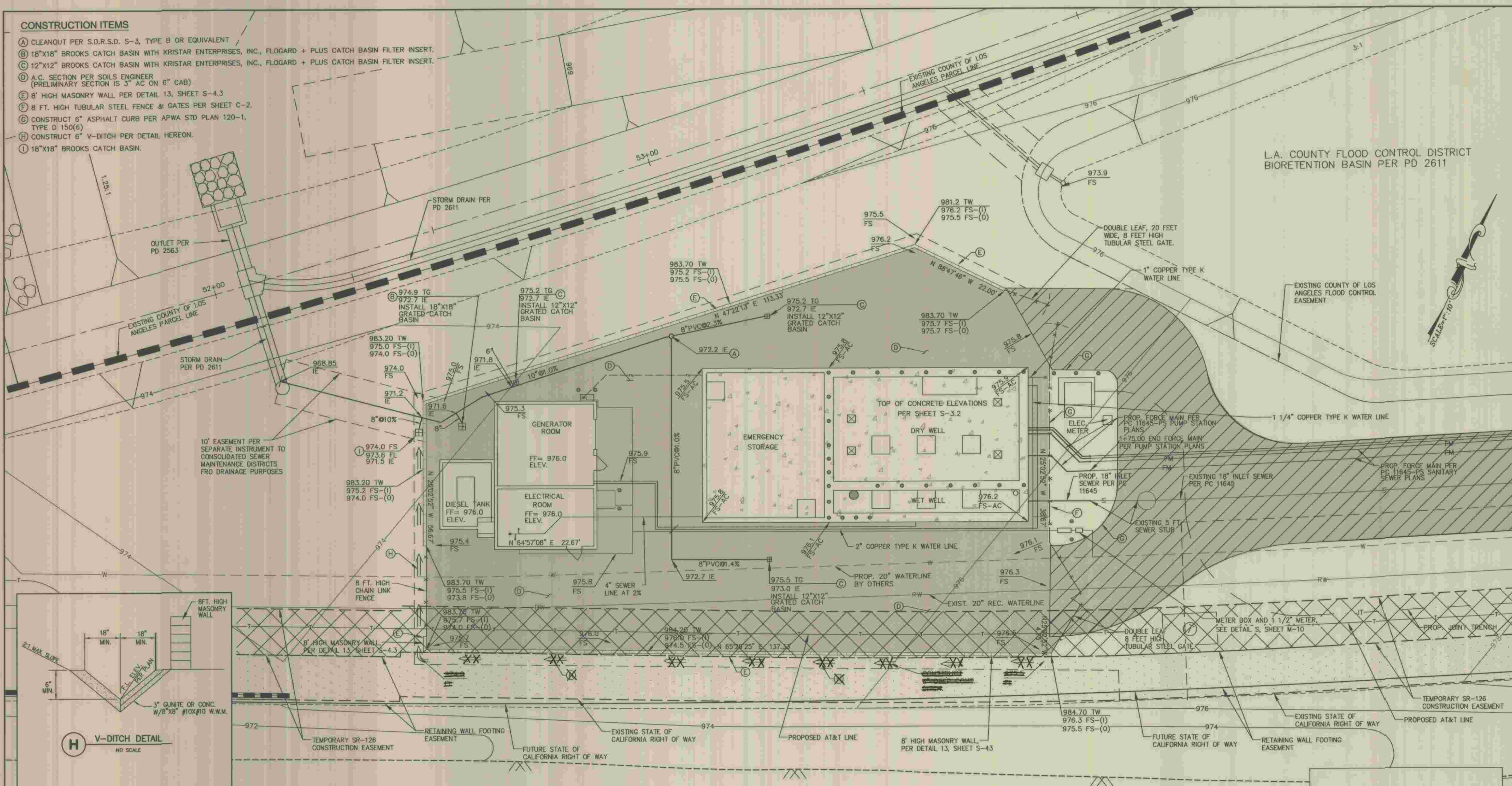
TITLE SHEET

G-1
SHEET
1
OF
61
SHEETS

CONSTRUCTION ITEMS

- (A) CLEANOUT PER S.D.R.S.D. S-3, TYPE B OR EQUIVALENT
- (B) 18"x18" BROOKS CATCH BASIN WITH KRISTAR ENTERPRISES, INC., FLOGARD + PLUS CATCH BASIN FILTER INSERT.
- (C) 12"x12" BROOKS CATCH BASIN WITH KRISTAR ENTERPRISES, INC., FLOGARD + PLUS CATCH BASIN FILTER INSERT.
- (D) A.C. SECTION PER SOILS ENGINEER (PRELIMINARY SECTION IS 3" AC ON 6" CAB)
- (E) 8' HIGH MASONRY WALL PER DETAIL 13, SHEET S-4.3
- (F) 8 FT. HIGH TUBULAR STEEL FENCE & GATES PER SHEET C-2.
- (G) CONSTRUCT 6" ASPHALT CURB PER APWA STD PLAN 120-1, TYPE D 150(6)
- (H) CONSTRUCT 6" V-DITCH PER DETAIL HEREON.
- (I) 18"x18" BROOKS CATCH BASIN.

L.A. COUNTY FLOOD CONTROL DISTRICT
BIORETENTION BASIN PER PD 2611



LEGEND

- PAVEMENT BY OTHERS
- PROPOSED PAVEMENT PER CONSTRUCTION NOTE D

REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.

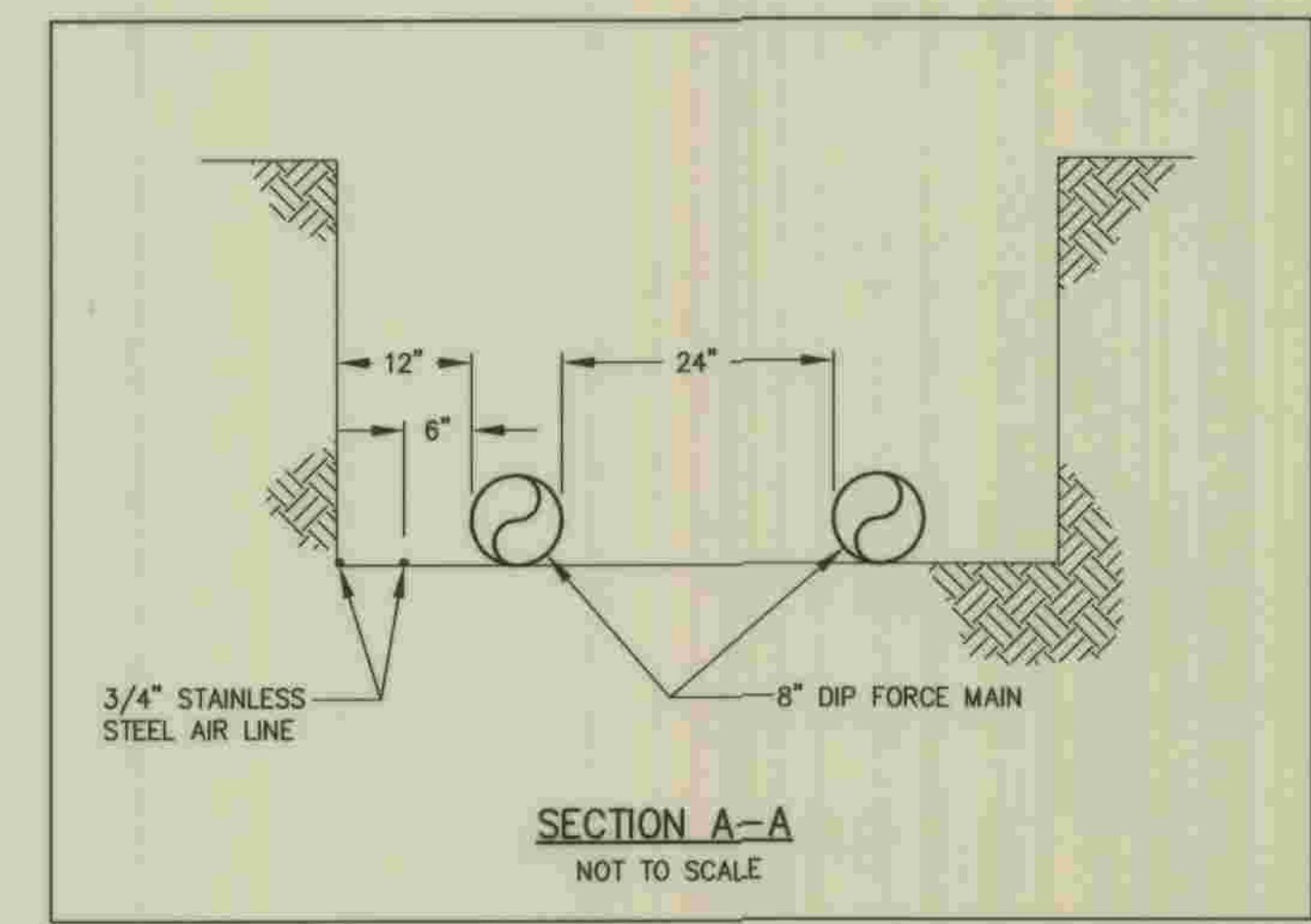
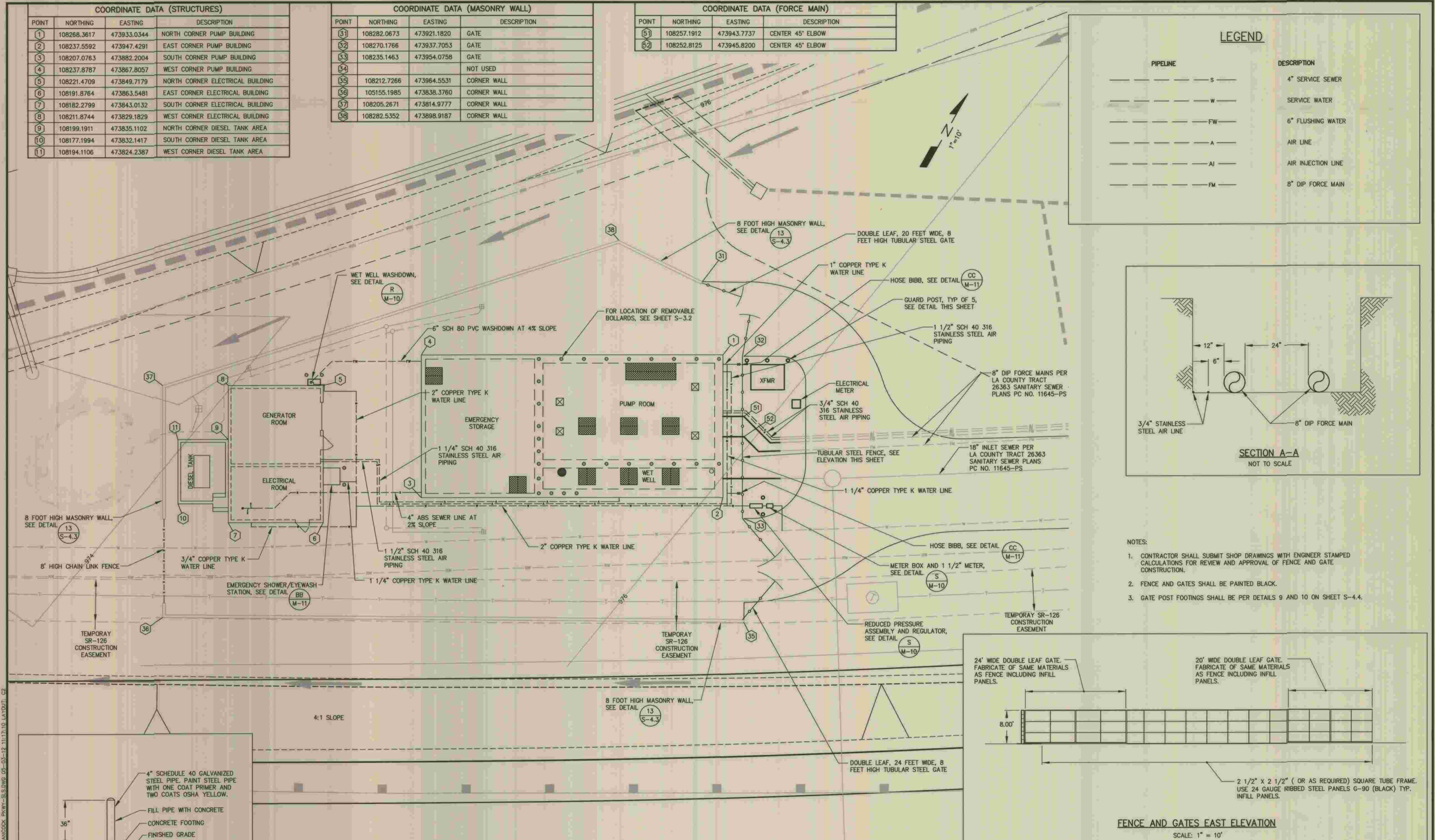
	PLANS PREPARED BY:	DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY	5/7/12 CW REMOVE 6" DEEP CONCRETE DITCH FROM RETAINING WALL FOOTING EASEMENT	C-1 SHEET 2 OF 61 SHEETS
	ALLIANCE LAND PLANNING & ENGINEERING INC. 27433 TOURNAY ROAD SUITE 250 VALENCIA, CA 91355 TEL: (661) 799-2760	CHECKED: <i>John P. ...</i> LAND DEVELOPMENT DIVISION DATE: 2/25/12	LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PARCEL MAP NO. 26363 CIVIL SITE PLAN	

COORDINATE DATA (STRUCTURES)			
POINT	NORTHING	EASTING	DESCRIPTION
1	108268.3617	473933.0344	NORTH CORNER PUMP BUILDING
2	108237.5592	473947.4291	EAST CORNER PUMP BUILDING
3	108207.0763	473882.2004	SOUTH CORNER PUMP BUILDING
4	108237.8787	473867.8057	WEST CORNER PUMP BUILDING
5	108221.4709	473849.7179	NORTH CORNER ELECTRICAL BUILDING
6	108191.8764	473863.5481	EAST CORNER ELECTRICAL BUILDING
7	108182.2799	473843.0132	SOUTH CORNER ELECTRICAL BUILDING
8	108211.8744	473829.1829	WEST CORNER ELECTRICAL BUILDING
9	108199.1911	473835.1102	NORTH CORNER DIESEL TANK AREA
10	108177.1994	473832.1417	SOUTH CORNER DIESEL TANK AREA
11	108194.1106	473824.2387	WEST CORNER DIESEL TANK AREA

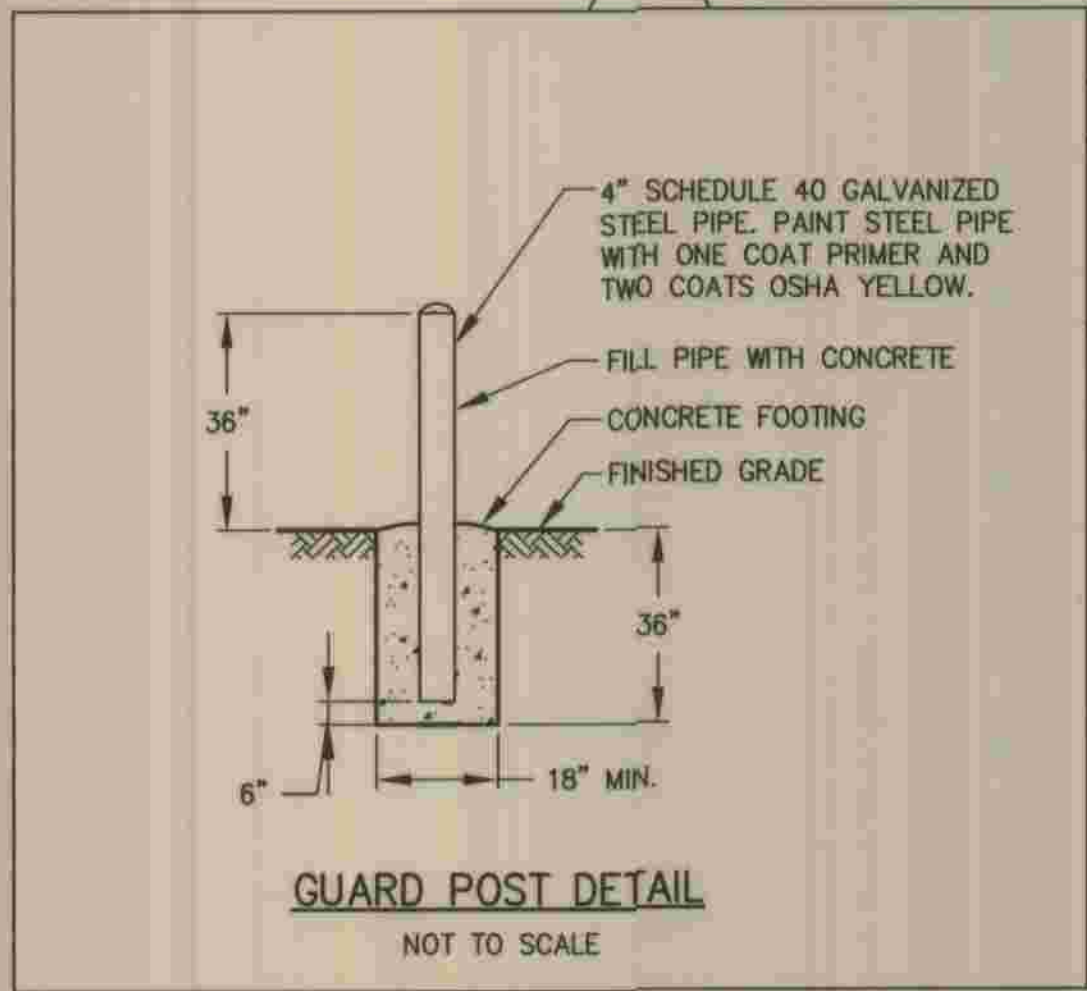
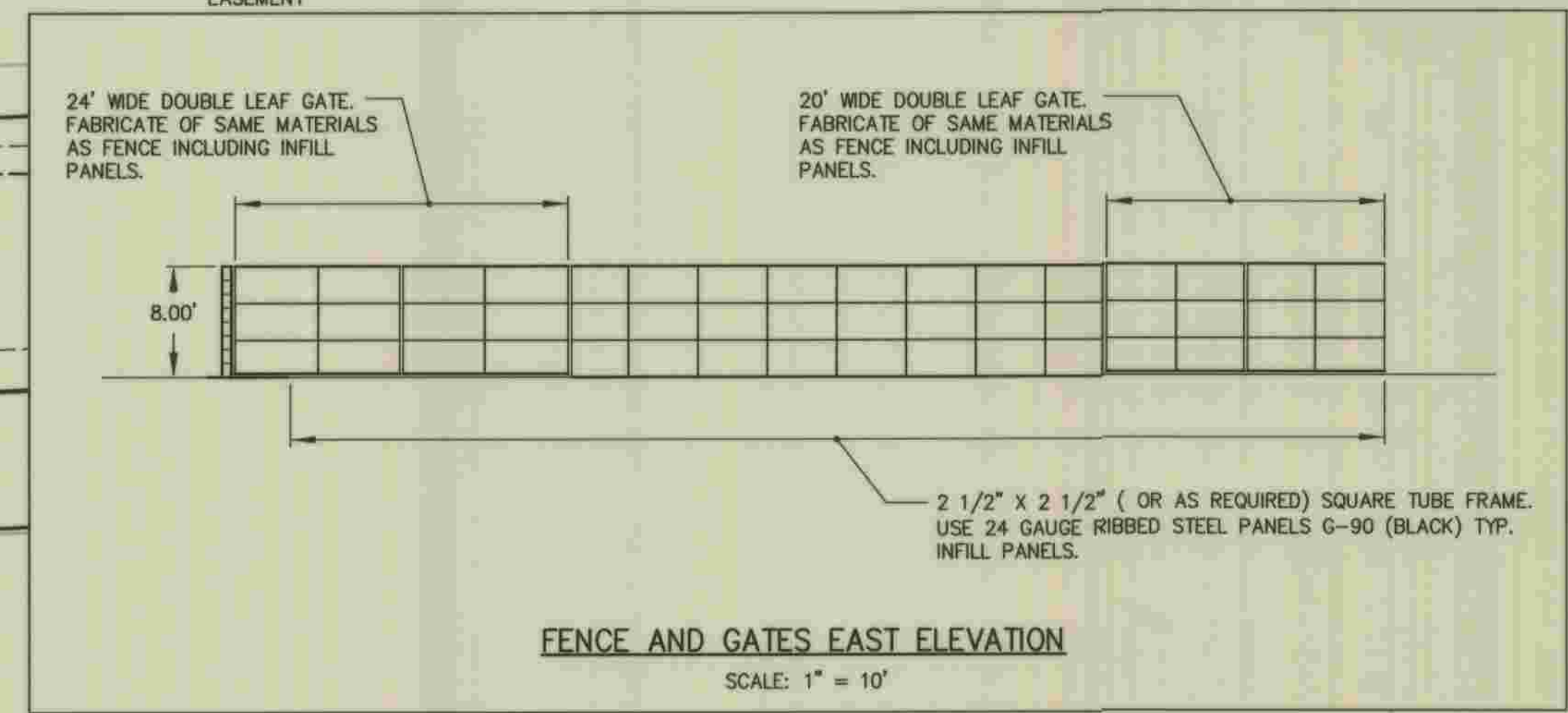
COORDINATE DATA (MASONRY WALL)			
POINT	NORTHING	EASTING	DESCRIPTION
31	108282.0673	473921.1820	GATE
32	108270.1766	473937.7053	GATE
33	108235.1463	473954.0758	GATE
34			NOT USED
35	108212.7266	473964.5531	CORNER WALL
36	105155.1985	473838.3760	CORNER WALL
37	108205.2671	473814.9777	CORNER WALL
38	108282.5352	473898.9187	CORNER WALL

COORDINATE DATA (FORCE MAIN)			
POINT	NORTHING	EASTING	DESCRIPTION
51	108257.1912	473943.7737	CENTER 45° ELBOW
52	108252.8125	473945.8200	CENTER 45° ELBOW

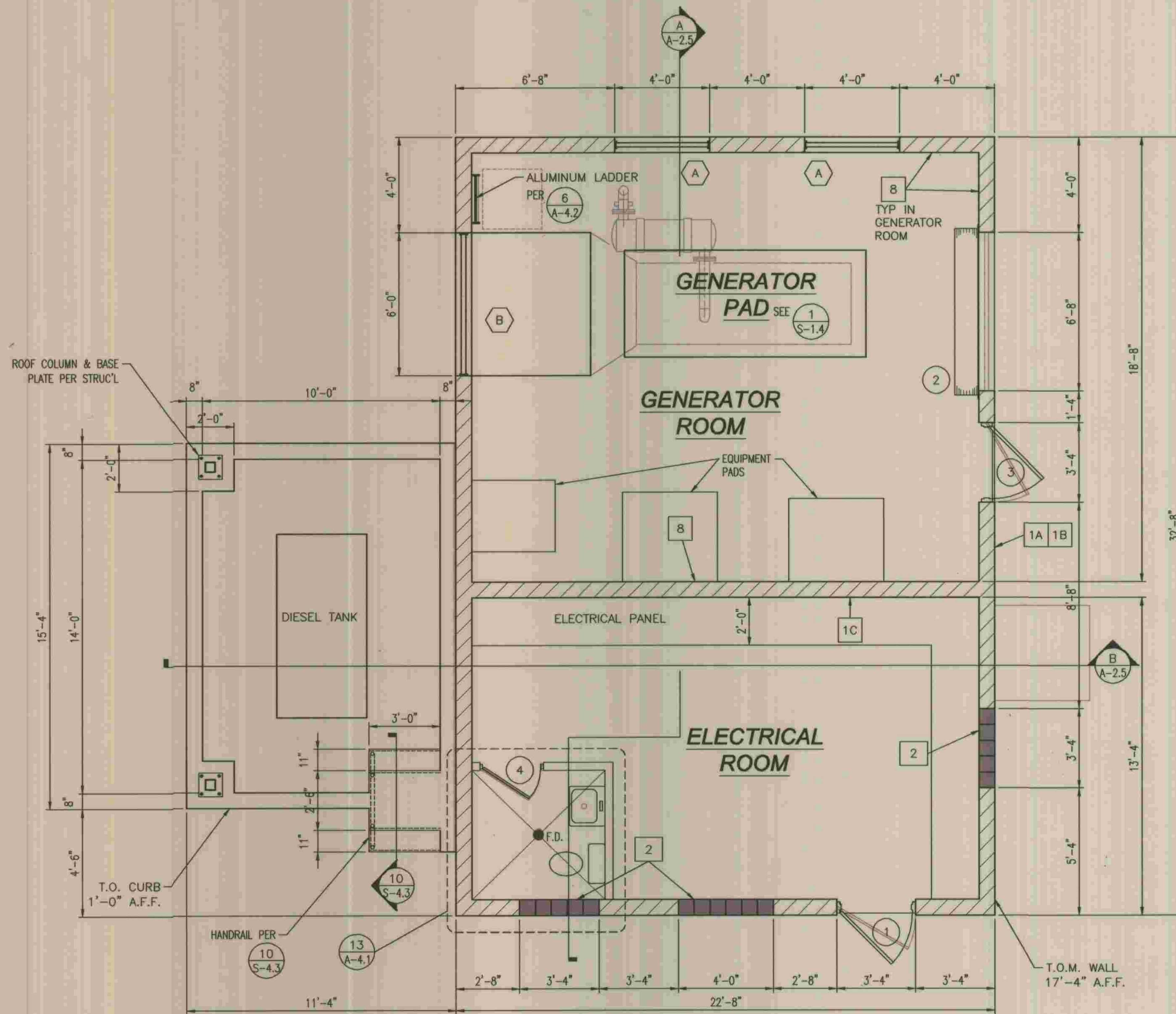
LEGEND	
PIPELINE	DESCRIPTION
---	4" SERVICE SEWER
---	SERVICE WATER
---	6" FLUSHING WATER
---	AIR LINE
---	AIR INJECTION LINE
---	8" DIP FORCE MAIN



- NOTES:
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH ENGINEER STAMPED CALCULATIONS FOR REVIEW AND APPROVAL OF FENCE AND GATE CONSTRUCTION.
 2. FENCE AND GATES SHALL BE PAINTED BLACK.
 3. GATE POST FOOTINGS SHALL BE PER DETAILS 9 AND 10 ON SHEET S-4.4.



	PLANS PREPARED BY DEXTER WILSON ENGINEERING, INC. CONSULTING ENGINEERS 2234 FARADAY AVENUE CARLSBAD, CA 92008 (760) 438-4422 Andrew Owen 5-1-2012 ANDREW M. OWEN DATE	DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY CHECKED: <i>[Signature]</i> 2/26/2012 LAUREN PEREZ/DESIGN DIVISION DATE	<table border="1"> <tr><th>NO.</th><th>DATE</th><th>DRAWN BY</th><th>CHECK BY</th><th>REVISION</th><th>APPR'D BY</th><th>APPR'D BY</th></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY								REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS. LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) TRACT NO. 26363 SITE PIPING PLAN	SPEC. NO. SHEET 3 OF 61 DRAWING NO. SHEETS
	NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY												
C-2																			



FLOOR PLAN

3/8" = 1'-0"

SEE MECHANICAL & STRUCTURAL DRAWINGS FOR ALL SLAB AND EQUIPMENT PADS INFORMATION

NOTES:

1. FOR MECHANICAL EQUIPMENT AND PIPING, SEE MECHANICAL DRAWINGS.
2. FOR FLOOR SLAB AND WALLS, SEE STRUCTURAL DRAWINGS.
3. SEE SHEET S-1.1 & S-1.2 FOR NOTES AND ABBREVIATIONS.
4. T.O.M. INDICATES TOP OF MASONRY ELEVATION.
5. THIS PROJECT SHALL COMPLY WITH THE 2001 C.B.C.
6. FINISH FLOOR ELEVATION IS 976.0'.
7. THIS BUILDING IS A NON-OCCUPIED STRUCTURE

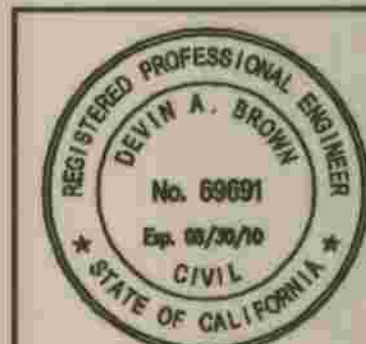
LEGEND

- DENOTES DOOR NUMBER MARK PER SCHEDULE ON SHEET A-2.2.
- DENOTES FINISH MARK PER SCHEDULE ON SHEET A-2.2.
- ⬡ DENOTES LOUVER NUMBER MARK PER SCHEDULE ON SHEET A-2.2.
- ▨ DENOTES MASONRY WALL PER STRUCTURAL
- ▩ DENOTES GLASS BLOCK PER ELEVATION ON SHEET A-2.3
- ⊕ DENOTES FLOOR DRAIN PER MECH'L

BUILDING CODE DATA

BUILDING AREA	965 SQ. FT.
BUILDING USE:	PUMP STATION
OCCUPANCY	GROUP S DIV 2
TYPE OF CONSTRUCTION	V - N
NUMBER OF STORIES	1
BASEMENT	NONE
BUILDING HEIGHT	17'-4"

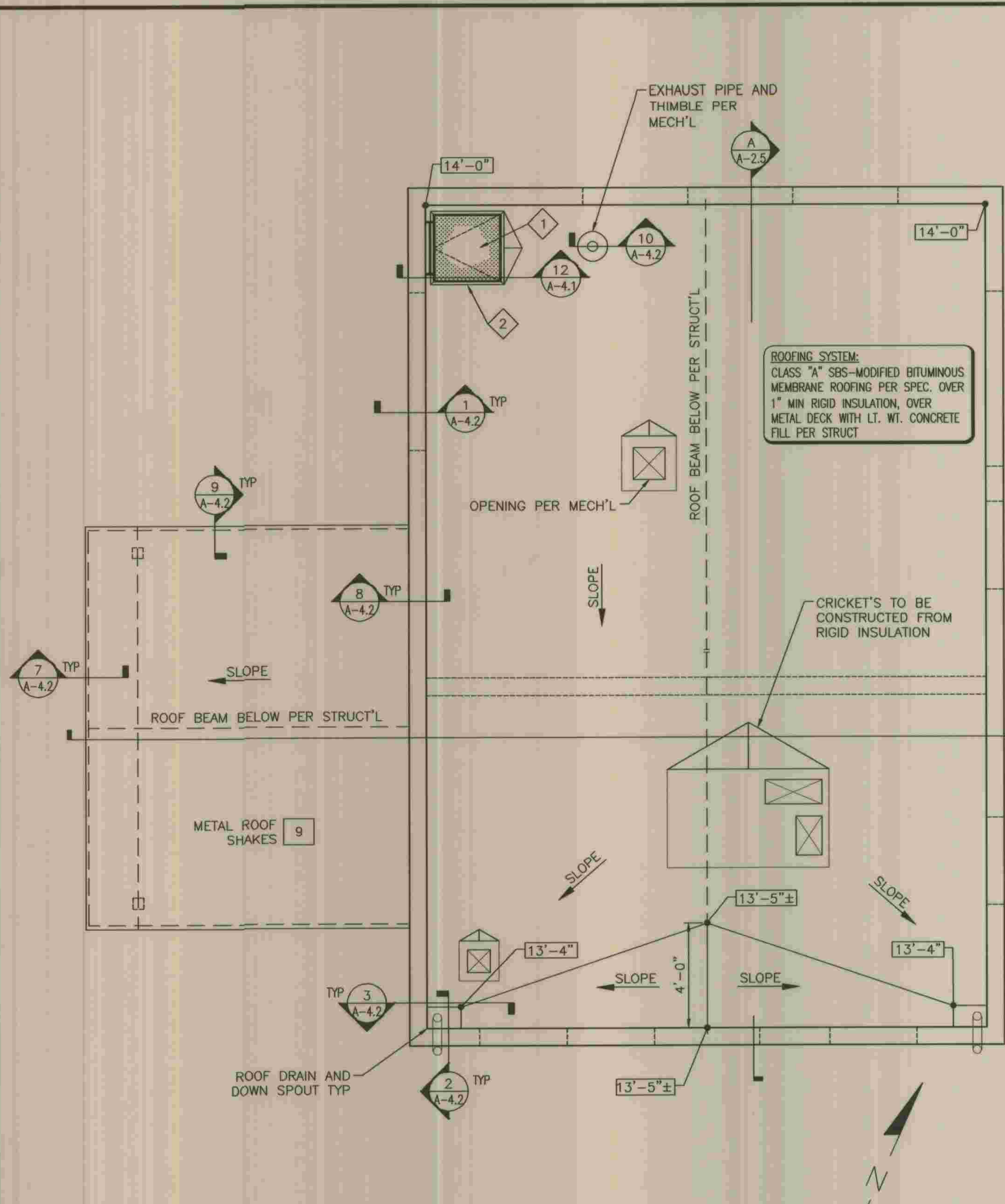
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PLANS PREPARED BY
R2H ENGINEERING, INC.
 CONSULTING STRUCTURAL ENGINEERS
 17150 VIA DEL CAMPO, SUITE 306
 SAN DIEGO, CA 92127
 PHONE (858) 673-8418
 FAX (858) 673-8418
 DATE: 5/28/09

DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY
 DATE: 2-28-2012

REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.		A-2.1
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS		SHEET
HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PROJECT MAP NO. 26363		4
ELECTRICAL BUILDING FLOOR PLAN		OF
		61
		SHEETS



ROOF PLAN
3/8" = 1'-0"

FINISH SCHEDULE	
MARK	FINISH
1A	EXTERIOR SPLIT FACE MASONRY CONCRETE BLOCK UNITS: 8x8x16 BY ORCO COLOR "BUFF" - MORTAR COLOR TO MATCH BLOCK COLOR
1B	EXTERIOR BURNISHED MASONRY CONCRETE BLOCK UNITS: 8x8x16 BY ORCO COLOR "CHOCOLATE" - MORTAR COLOR TO MATCH BLOCK COLOR
1C	PRECISION MASONRY CONCRETE BLOCK UNITS: 8x8x16 BY ORCO COLOR "BUFF" - MORTAR COLOR TO MATCH BLOCK COLOR ALL EXTERIOR FINISH PER 3
2	'DECORA' PATTERN GLASS BLOCK: 8"x8"x3/8" BY PITTSBURGH CORNING GLASS BLOCK PRODUCTS, OR EQUAL
3	SEALER AND GRAFFITI CONTROL SYSTEM PER SPEC. SECTION 09901
4	EXTERIOR METAL DOOR AND FRAME OR LOUVER W/ FACTORY APPLIED BAKED ENAMEL FINISH. COLOR: "OXFORD BROWN" BY SINCLAR
5	EXPOSED STRUCTURAL STEEL PER SPECIFICATIONS SECT SECT 09902 COLOR: "OXFORD BROWN" BY SINCLAR
6	FLAT PAINT PER SPEC SECT 09901 COLOR: "OXFORD BROWN" BY SINCLAR
7	SEMI-GLOSS PAINT PER SPEC SECT 09901 COLOR: BY OWNER
8	ACOUSTICAL INSULATION PER SPEC SECT 09514
9	DECRA STONE COATED METAL ROOF SHAKES PER SPEC SECT 07314 COLOR: "COFFEE BROWN"

NOTE: OWNER TO VERIFY ALL COLORS IN FINISH SCHEDULE.

LOUVER/VENTILATOR SCHEDULE				
MARK	OPEN'G SIZE W	OPEN'G SIZE H	TYPE	REMARKS
A	4'-0"	7'-4"	LOUVER PER 10/A-4.1	SEE SPECIFICATIONS
B	6'-0"	8'-0"	LOUVER PER 10/A-4.1	SEE SPECIFICATIONS

PLUMBING FIXTURES		
ITEM	DESCRIPTION	COLOR
WATER CLOSET	AMERICAN STANDARD, CADET 17 EL PRESSURE ASSIST #2168.100, ULTRA LOW FLUSH (1.6 GPF), ELONGATED BOWL, WITH SEAT TO MATCH	WHITE
LAVATORY	AMERICAN STANDARD, LUCERNE NO. 0356.015 W/ WALL HANGER AMERICAN STANDARD FAUCET NO. 4901.000 POLISHED CHROME. LAVATORY FAUCETS IN RESTROOM SHALL BE THE SELF CLOSING TYPE FAUCETS TO BE 2.2 GPM MAX.	WHITE

DOOR SCHEDULE					
MARK	OPNG SIZE W	OPNG SIZE H	TYPE	FRAME	HARDWARE PER SPEC SECT 08710*SEE NOTES 1 & 2
1	3'-4"	9'-4"	3'-0"x9'-2"x1 3/4" FLUSH GALV HOLLOW METAL DOOR HEAD 1 JAMB 2 THRSHL 3 PER SPEC 08110 A-4.1 A-4.1 A-4.1	GALVANIZED 2" FACE x 6" DEEP	HW SET #1
2	6'-8"	10'-0"	6'-8" ACOUSTICAL ROLL-UP SOUND DOOR PER SPEC 08361 HEAD 7 JAMB 8 THRSHL 9 A-4.1 A-4.1 A-4.1	PER MFR	PROVIDE SLIDE BOLT LOCK EA JAMB AT INSIDE.
3	3'-4"	7'-4"	3'-0"x7'-2" ACOUSTICAL METAL DOOR PER SPEC 08120 HEAD 1 JAMB 2 THRSHL 3 SIM A-4.1 A-4.1 A-4.1	PER SPEC	HW SET #1
4	3'-0"	7'-2"	2'-8"x7'-0"x1 3/4" HEAD & JAMB PER THRSHL 4 SIM 5 A-4.2 A-4.2	GALVANIZED 2" FACE x 6" DEEP	HW SET #2

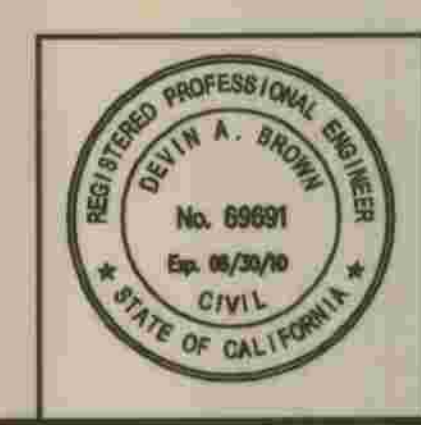
*** NOTES:**

- ALL EXITS ARE TO BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE.
- ALL OUTSIDE DOOR FITTINGS AND LOCKS SHALL BE CORROSION AND VANDAL RESISTANT WITH STAINLESS STEEL SECURITY FITTINGS AND LOCKS. LOCKS WILL HAVE INTERCHANGEABLE TYPE 316 S.S. CYLINDERS AND WILL BE KEYED TO THE OWNER'S STANDARDS. CONTRACTOR SHALL OBTAIN APPROVAL FROM THE OWNER FOR ALL LOCKS AND DOOR HARDWARE.

LEGEND

- 1 30" x 30" 'BILCO' E-90 LOCKABLE STAINLESS STEEL ROOF SCUTTLE WITH LOCK PROVIDED, OR APPROVED EQUAL - SEE 12/A-4.1
 - 2 'BILCO' ALUMINUM #LU-4 LADDER UP SAFETY POST, OR APPROVED EQUAL.
- 12'-4" INDICATES TOP OF FINISHED ROOF ELEVATION

\\SANDEGO\PROJECTS\07-07058\4-DWG\07058-42-2.DWG 5/28/2009 8:32:58 AM



PLANS PREPARED BY
R2H ENGINEERING, INC.
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17150 VIA DEL CAMPO, SUITE 308
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PHONE (658) 673-8416
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DATE: 5/28/09

DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY
LAW DEVELOPMENT DIVISION
DATE: 2-28-2012

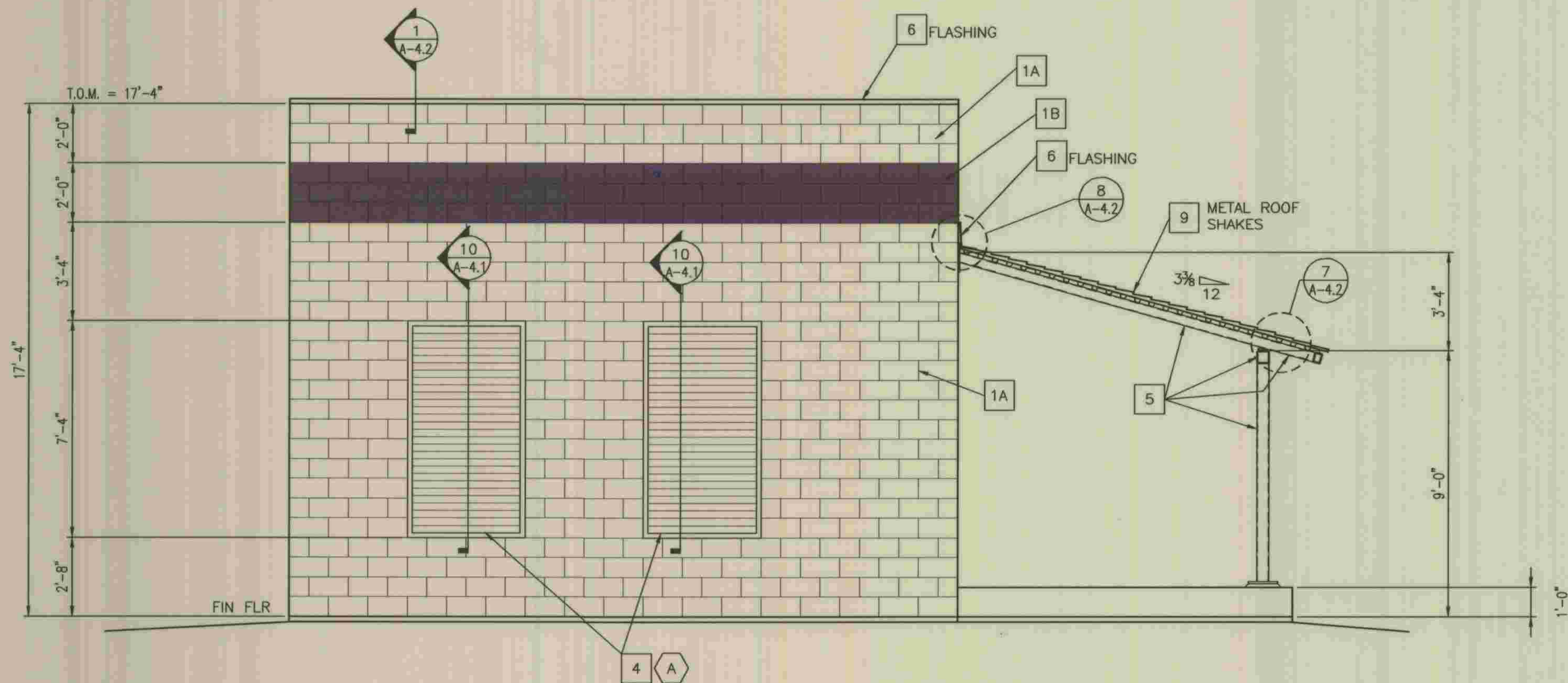
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LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS
HANCOCK PARKWAY
SEWAGE LIFT STATION (TEMPORARY)
PARCEL MAP NO. 26363

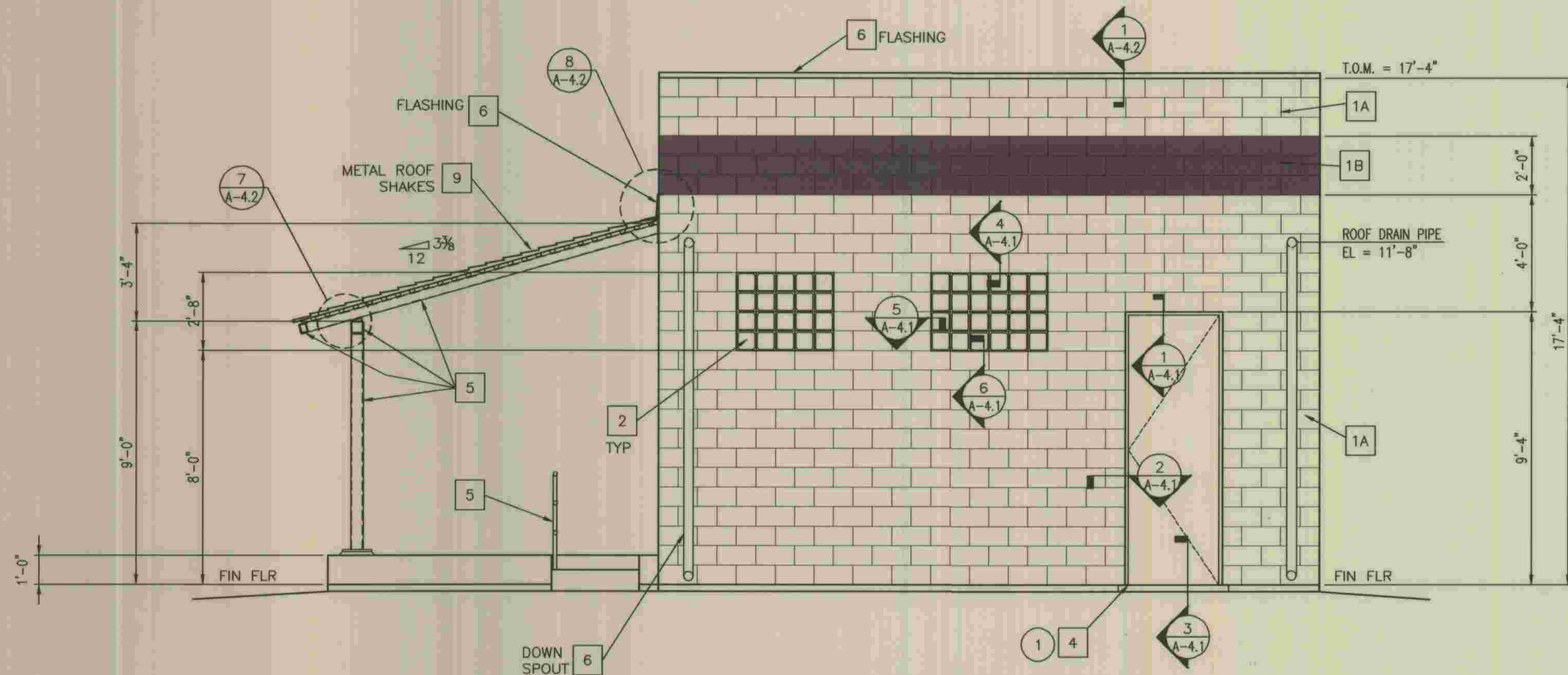
ROOF PLAN AND SCHEDULES

A-2.2
SHEET
5
OF
61
SHEETS



NORTH ELEVATION

3/8" = 1'-0"



SOUTH ELEVATION

3/8" = 1'-0"

REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.



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 FAX (858) 673-8418

Devin A. Brown
 DATE 5/28/09

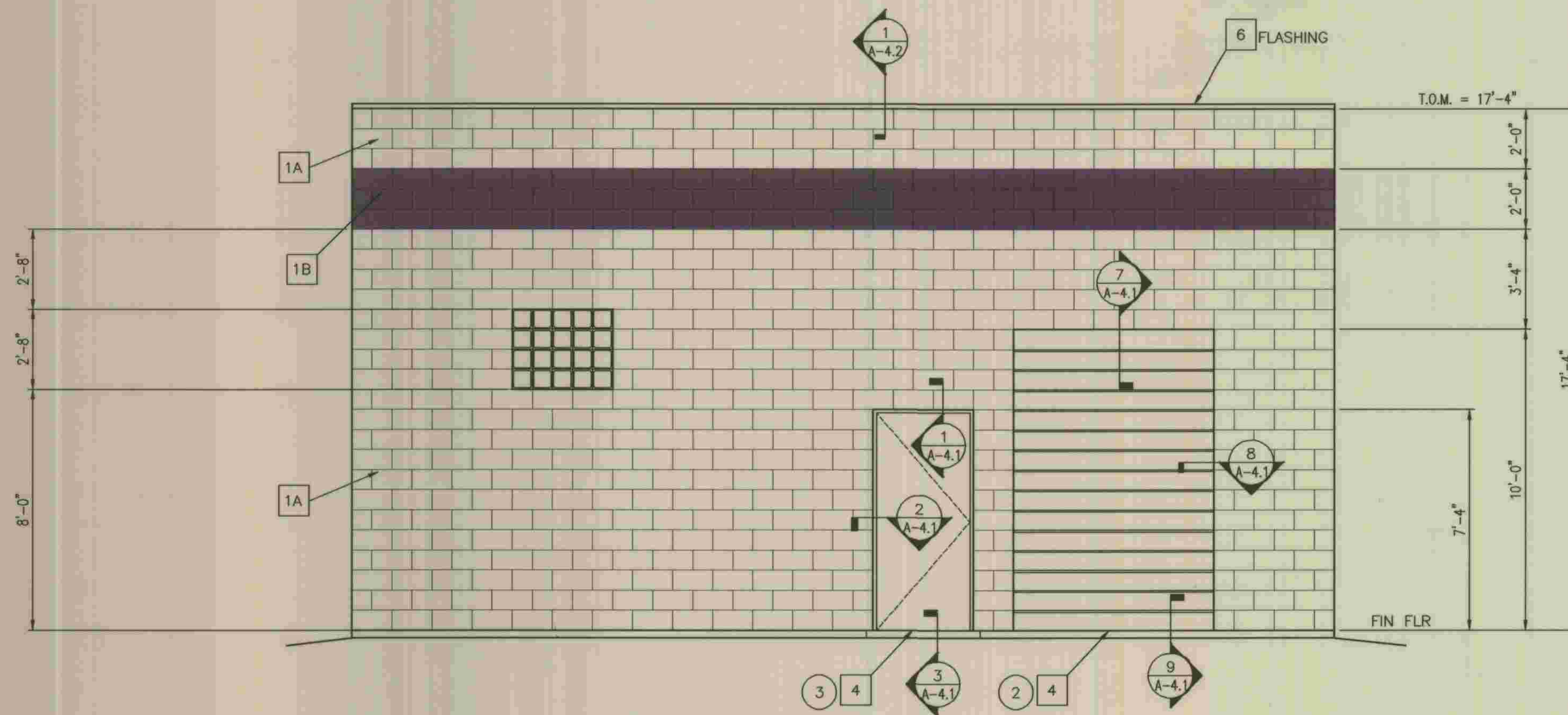
DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY

John Brown
 LAND DEVELOPMENT DIVISION
 DATE 2-25-2012

NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY

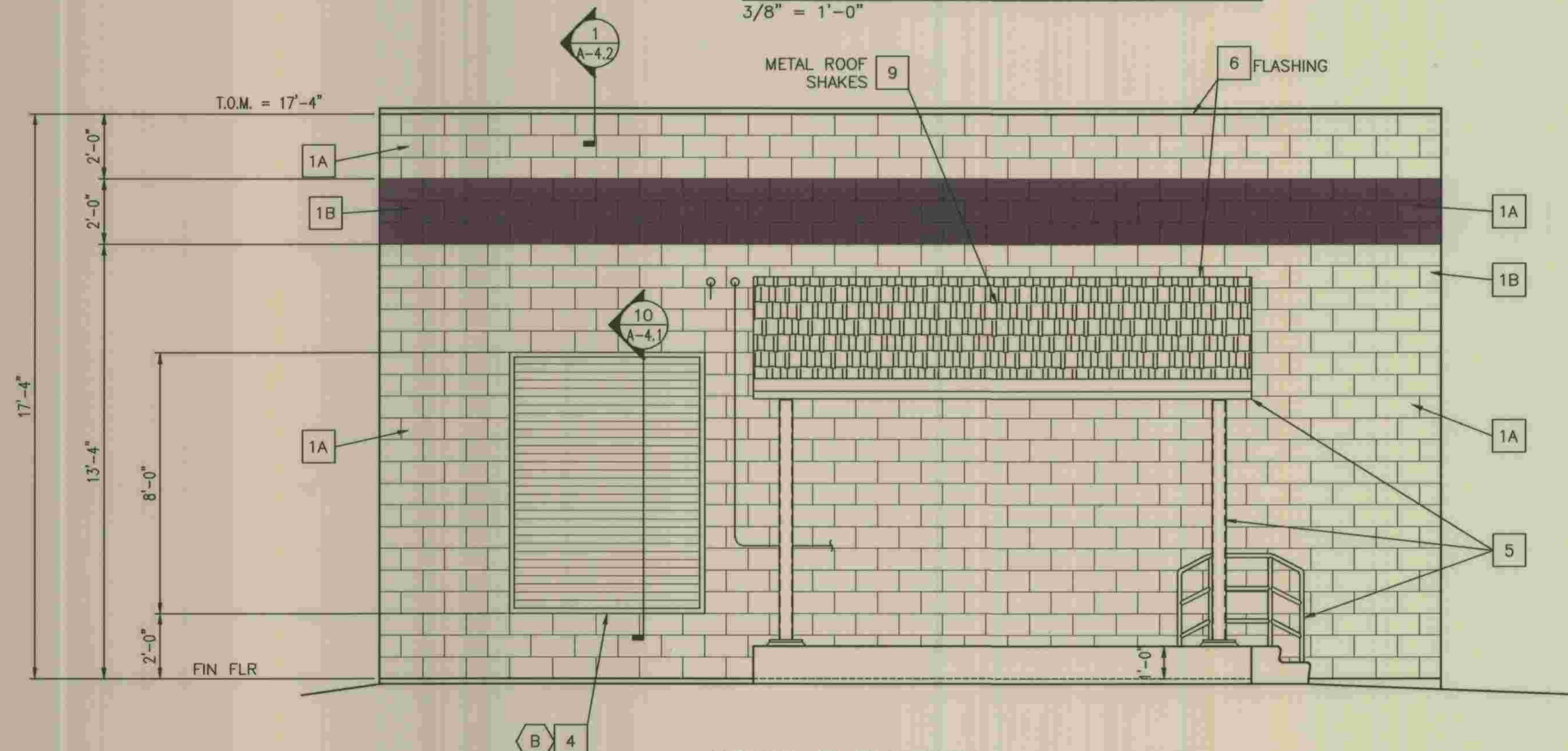
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS	SPEC. NO.
HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PARCEL MAP NO. 26363	OF
ELECTRICAL BUILDING ELEVATIONS	DRAWING NO.

A-2.3
SHEET
6
OF
61
SHEETS



EAST ELEVATION

3/8" = 1'-0"



WEST ELEVATION

3/8" = 1'-0"

\\SAN DIEGO\PROJECTS\07_07056\4-DWG\07056-A2-3-4.DWG 5/28/2009 8:33:17 AM



PLANS PREPARED BY
R₂H ENGINEERING, INC.
 CONSULTING STRUCTURAL ENGINEERS
 17150 VIA DEL CAMPO, SUITE 308
 SAN DIEGO, CA 92127
 PHONE (858) 673-8416
 FAX (858) 673-8418
 DATE 5/28/09
 DEVIN A. BROWN

DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY

John Brown
 LAND DEVELOPMENT DIVISION
 DATE 2-28-2011

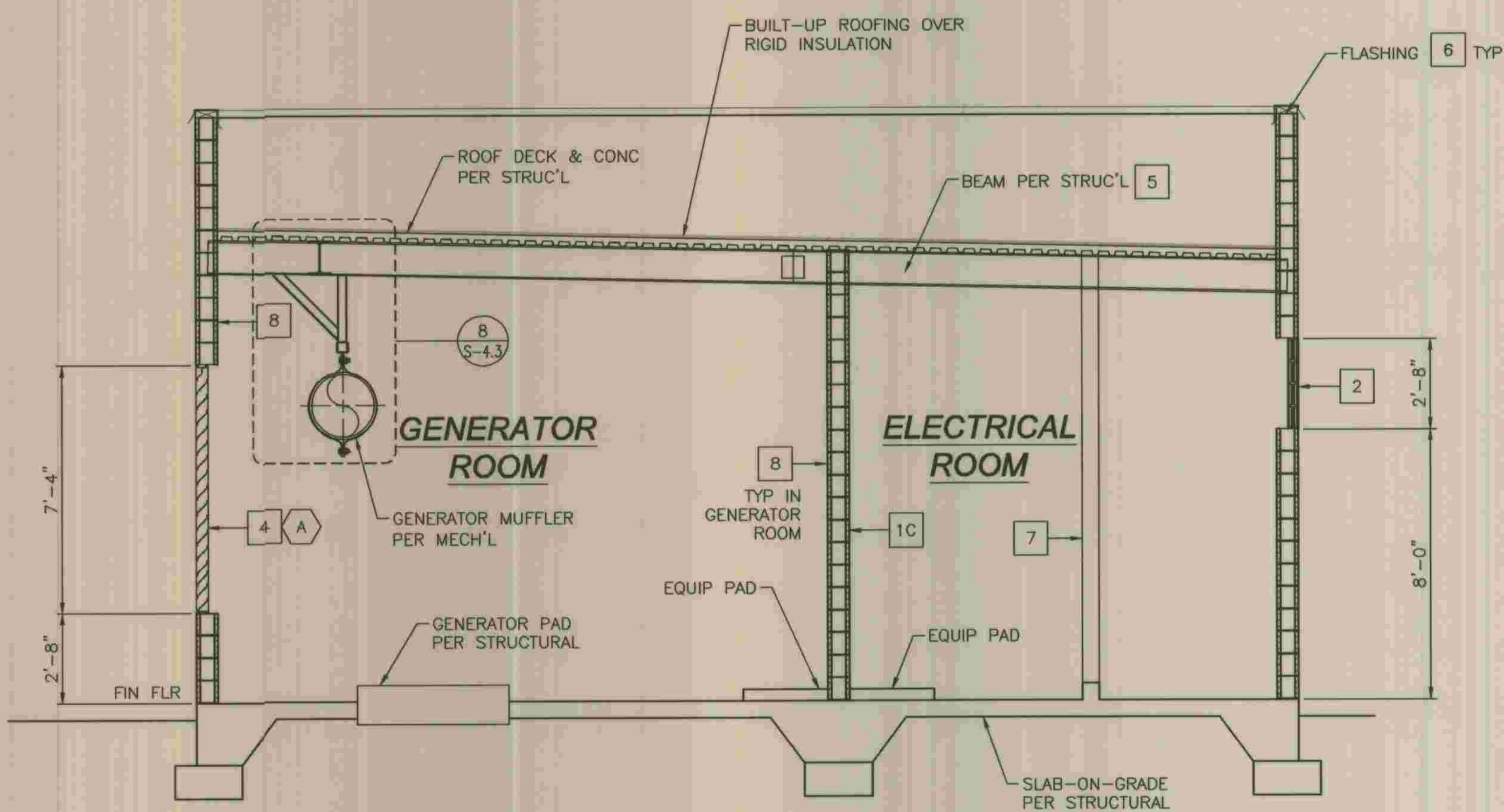
NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY

REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.

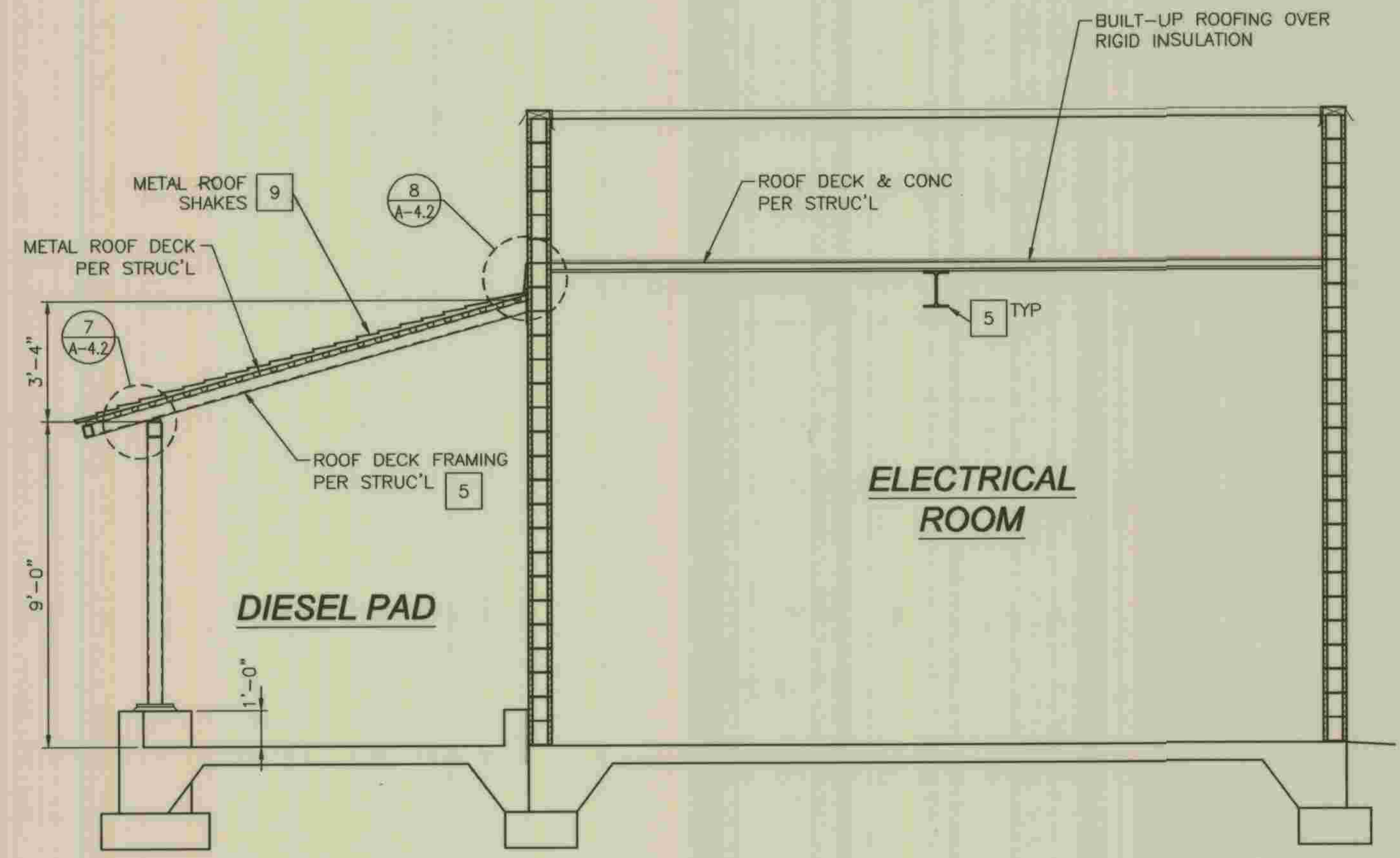
LOS ANGELES COUNTY
 DEPARTMENT OF PUBLIC WORKS
 HANCOCK PARKWAY
 SEWAGE LIFT STATION (TEMPORARY)
 PARCEL MAP NO. 26363

ELECTRICAL BUILDING ELEVATIONS

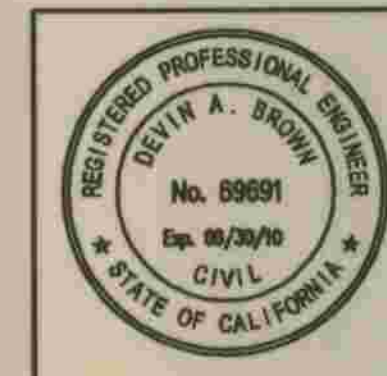
A-2.4	SHEET
7	OF
61	SHEETS



BUILDING SECTION A
3/8" = 1'-0" A-2.5



BUILDING SECTION B
3/8" = 1'-0" B-2.5



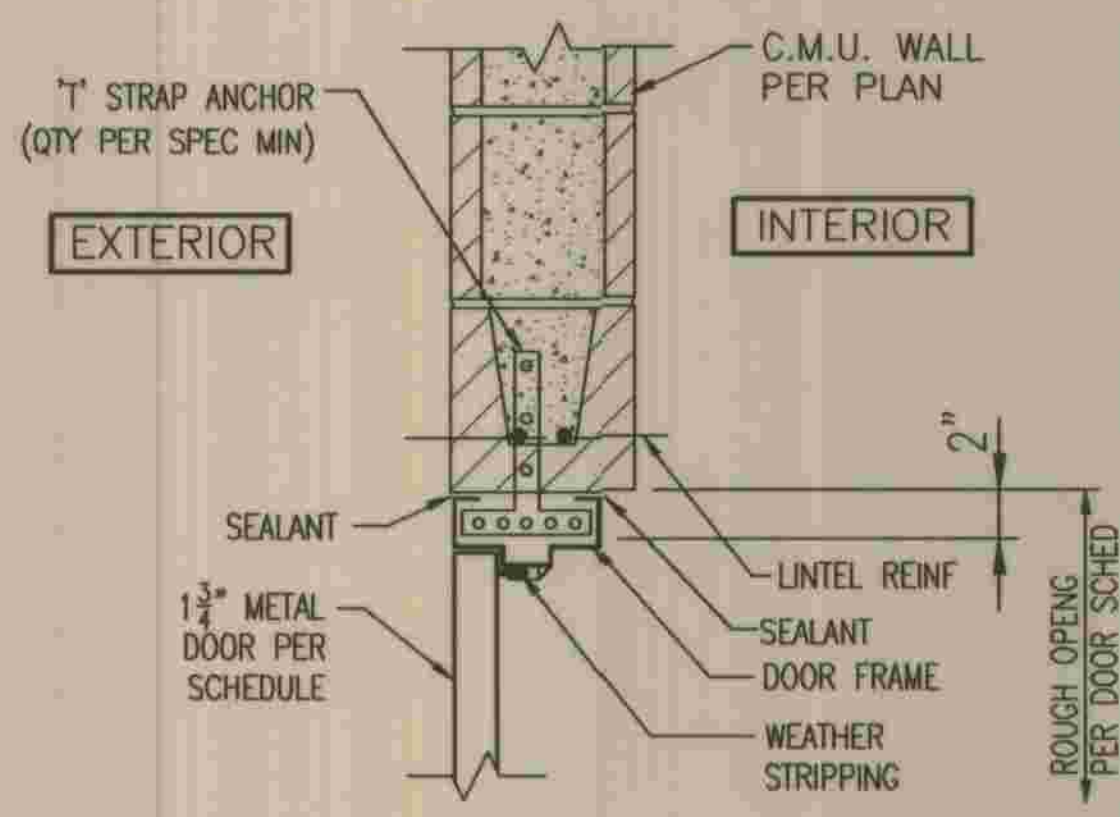
PLANS PREPARED BY
R2H ENGINEERING, INC.
CONSULTING STRUCTURAL ENGINEERS
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SAN DIEGO, CA 92127
PHONE (858) 673-8418
FAX (858) 673-8418
DATE: 5/28/09
DEVIN A. BROWN

DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY
Julian Brown 2-28-2012
LAND DEVELOPMENT DIVISION

NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY

REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.
LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS
HANCOCK PARKWAY
SEWAGE LIFT STATION (TEMPORARY)
PARCEL MAP NO. 26363
ELECTRICAL BUILDING SECTIONS

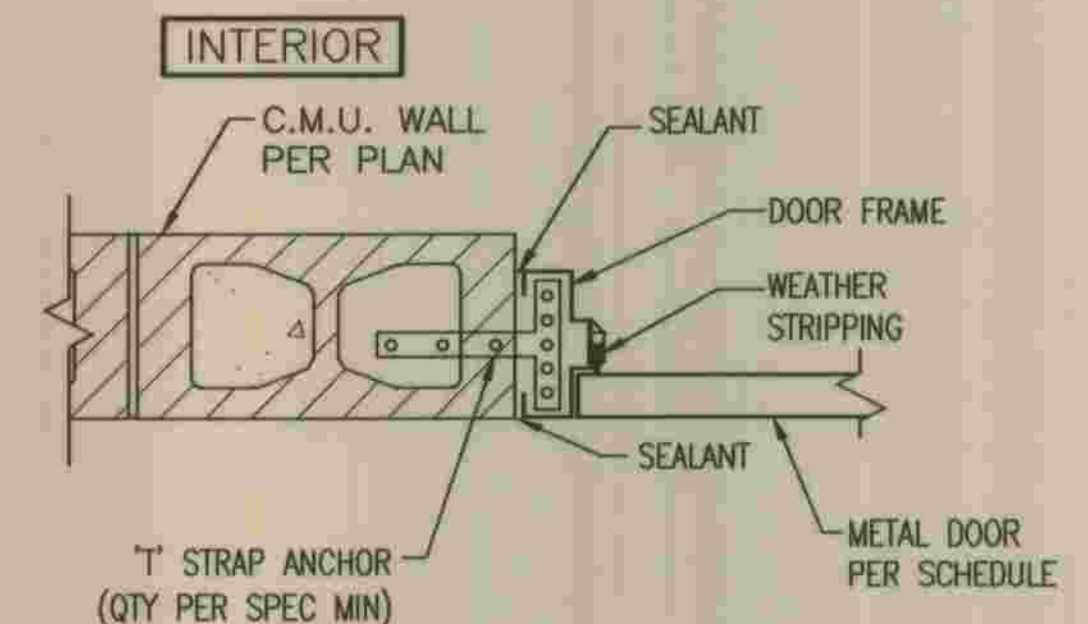
A-2.5	SHEET	8
	OF	61
	SHEETS	



DOOR HEAD - MASONRY WALL

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

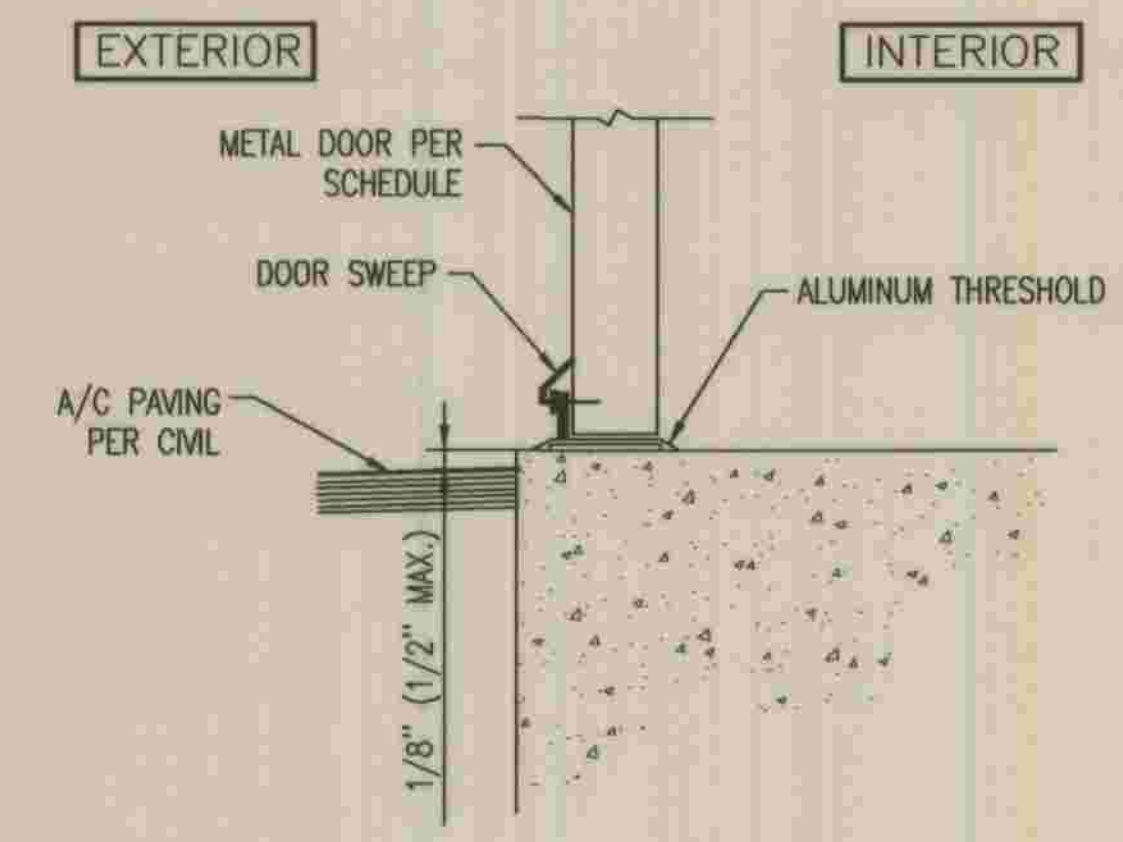
1 A-4.1



DOOR JAMB - MASONRY WALL

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

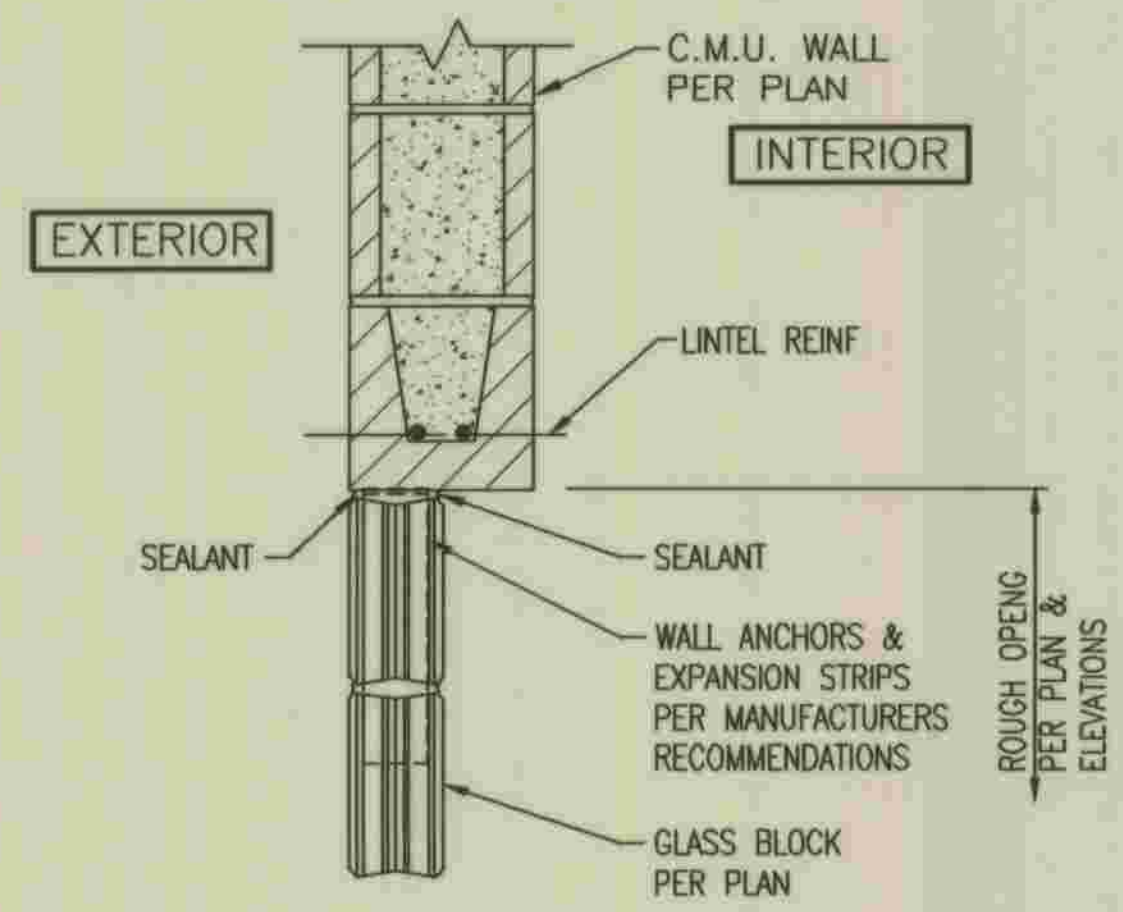
2 A-4.1



DOOR THRESHOLD AT EXT

SCALE: N.T.S.

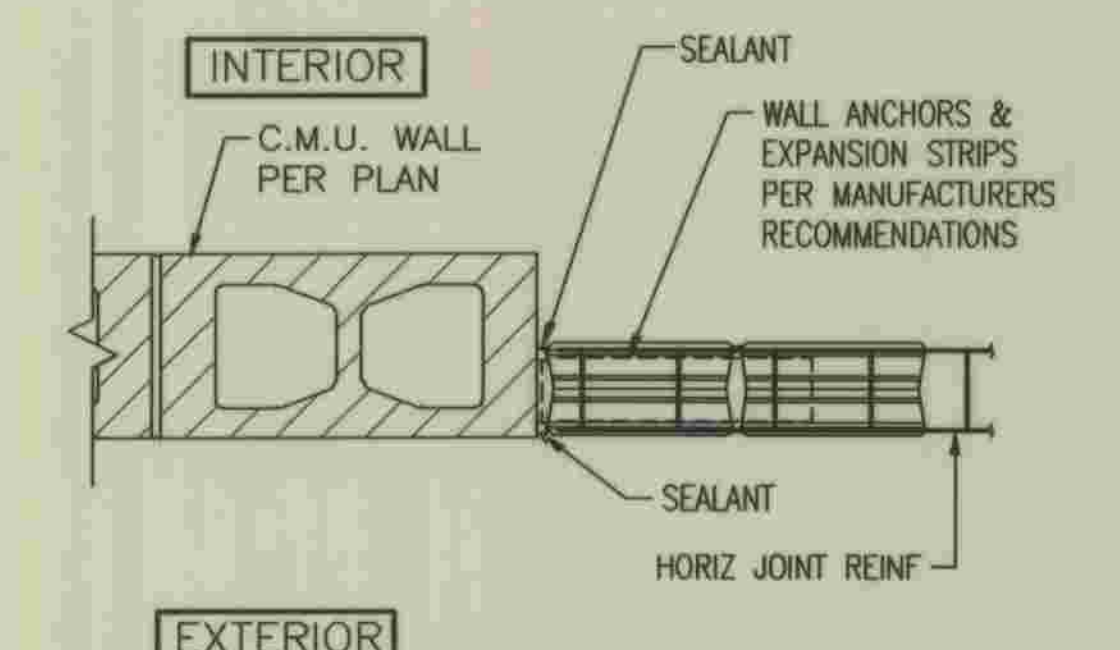
3 A-4.1



WINDOW HEAD - GLASS BLOCK

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

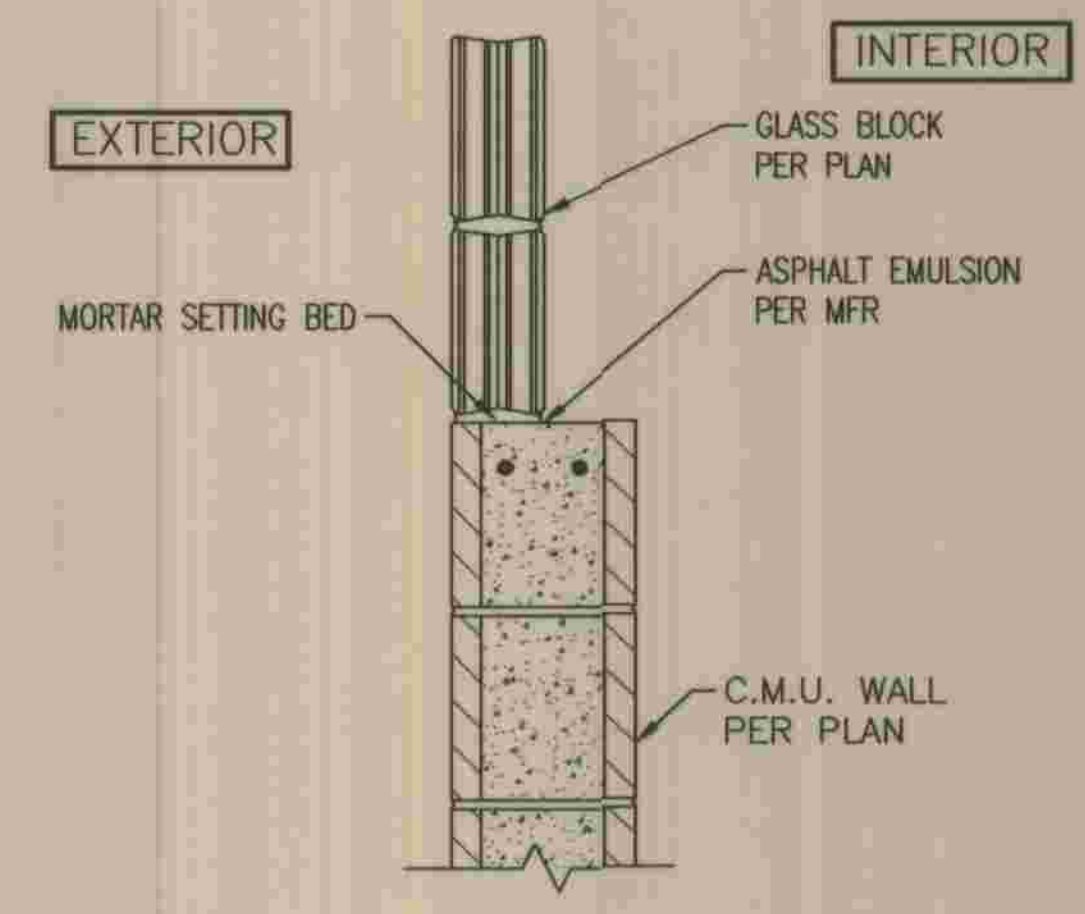
4 A-4.1



WINDOW JAMB - GLASS BLOCK

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

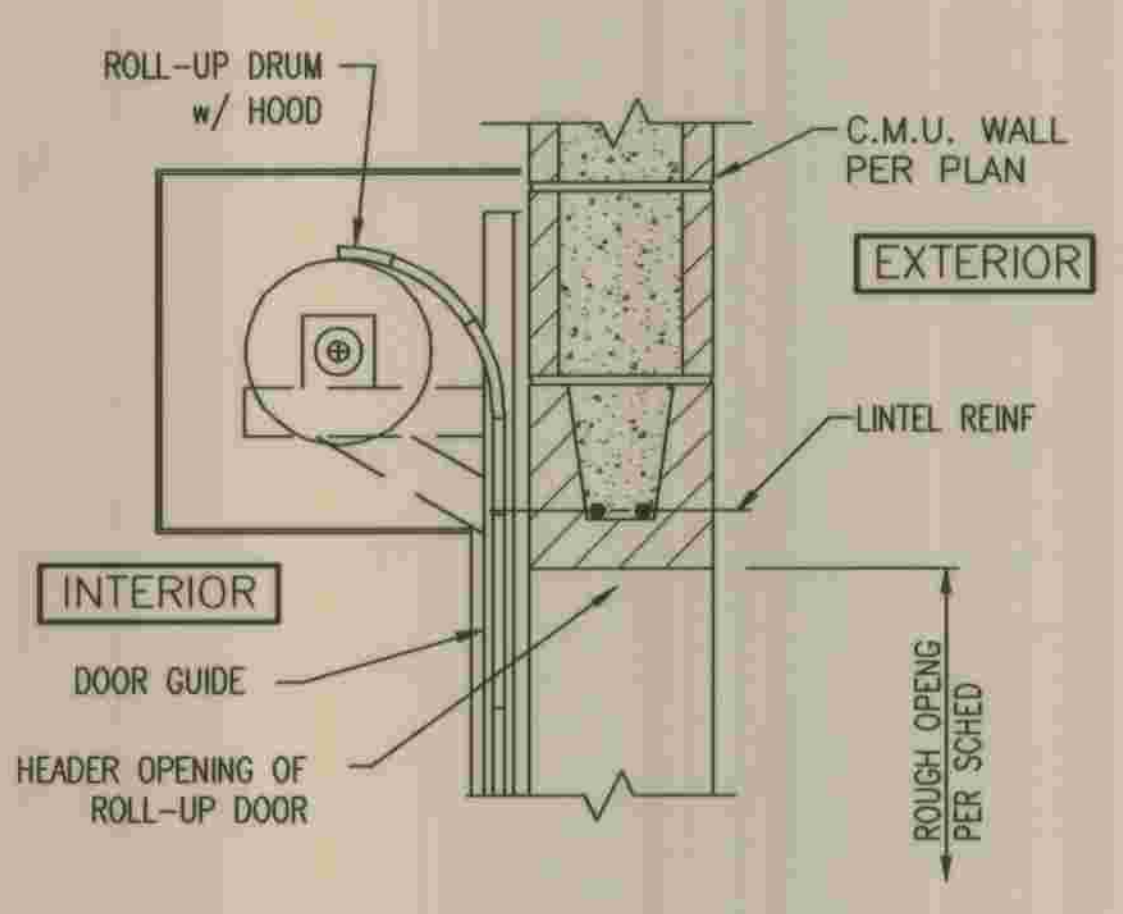
5 A-4.1



WINDOW SILL - GLASS BLOCK

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

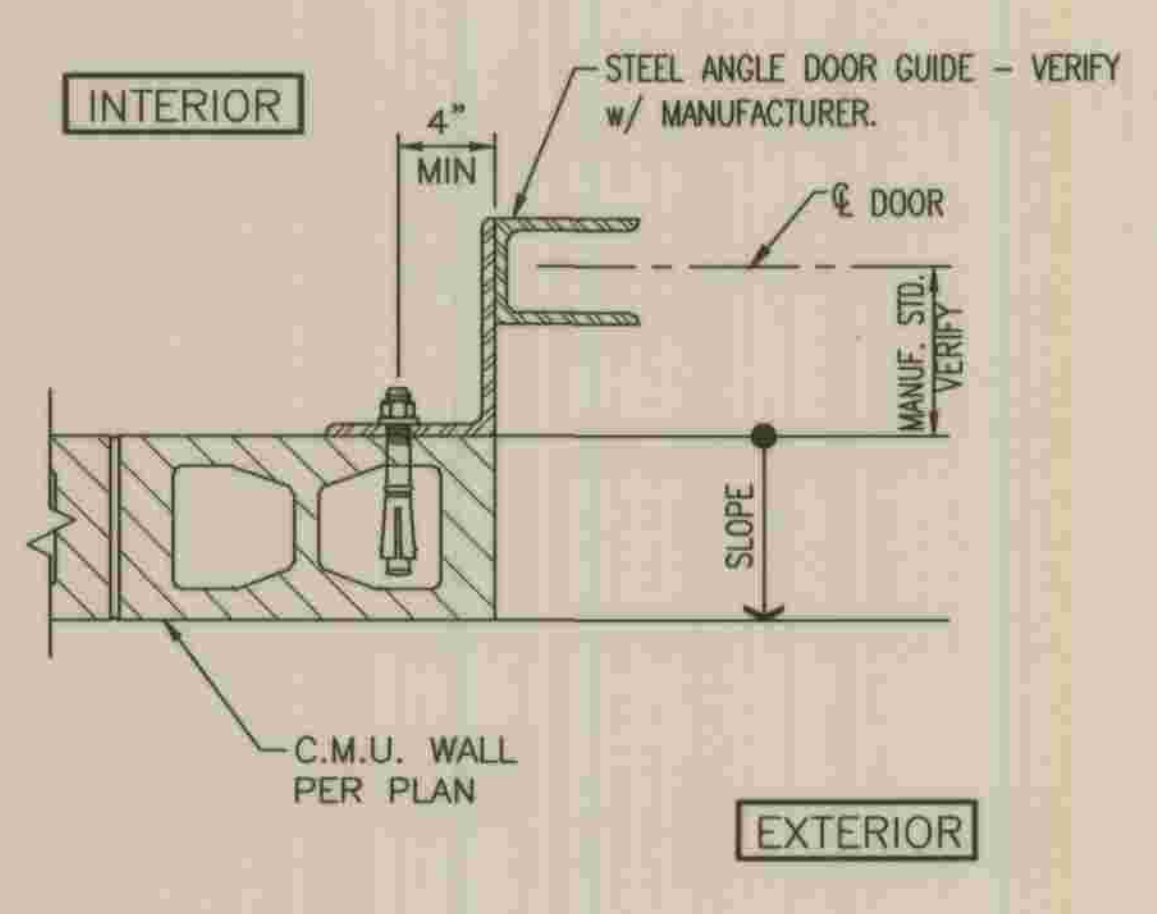
6 A-4.1



ROLL-UP DOOR HEAD

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

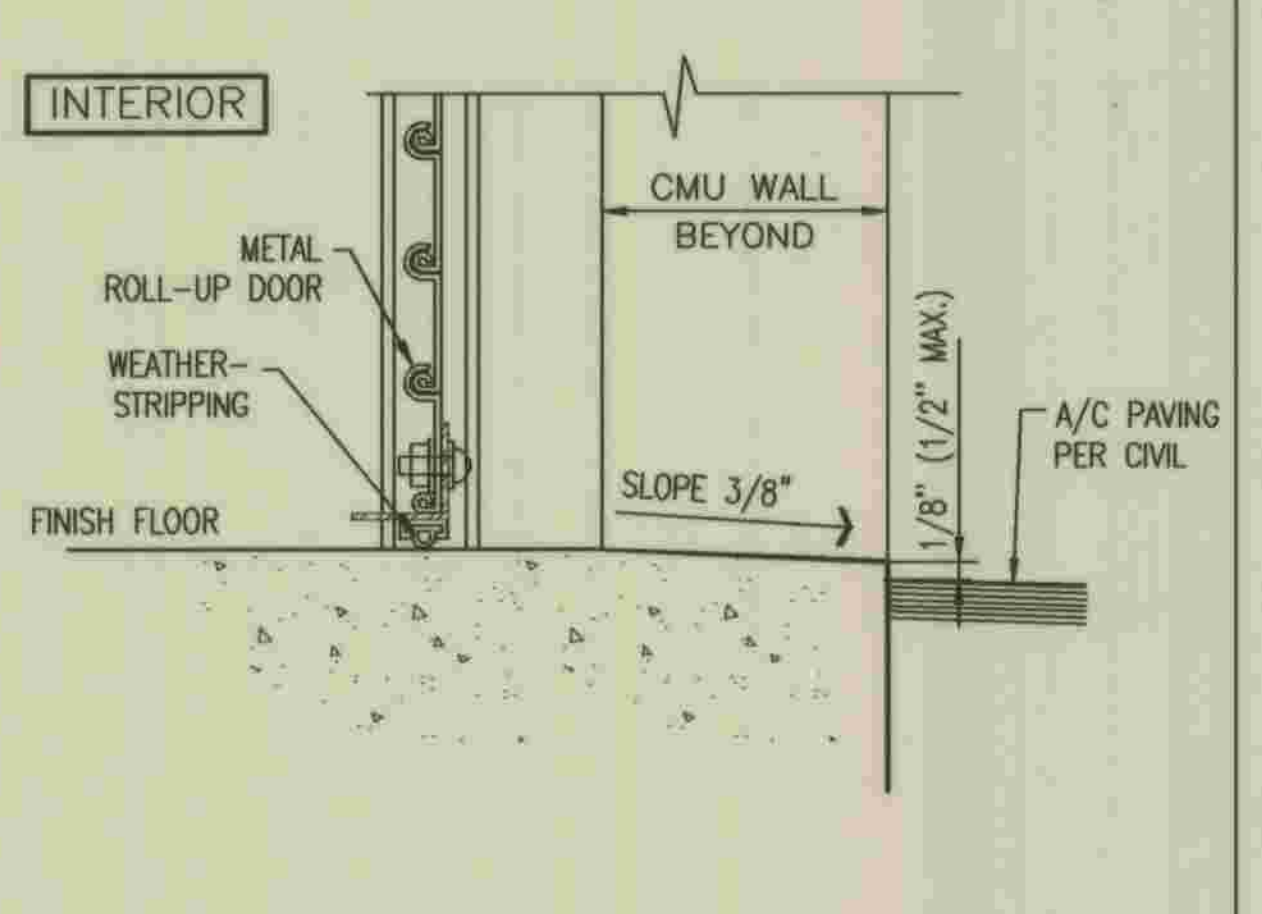
7 A-4.1



ROLL-UP DOOR JAMB

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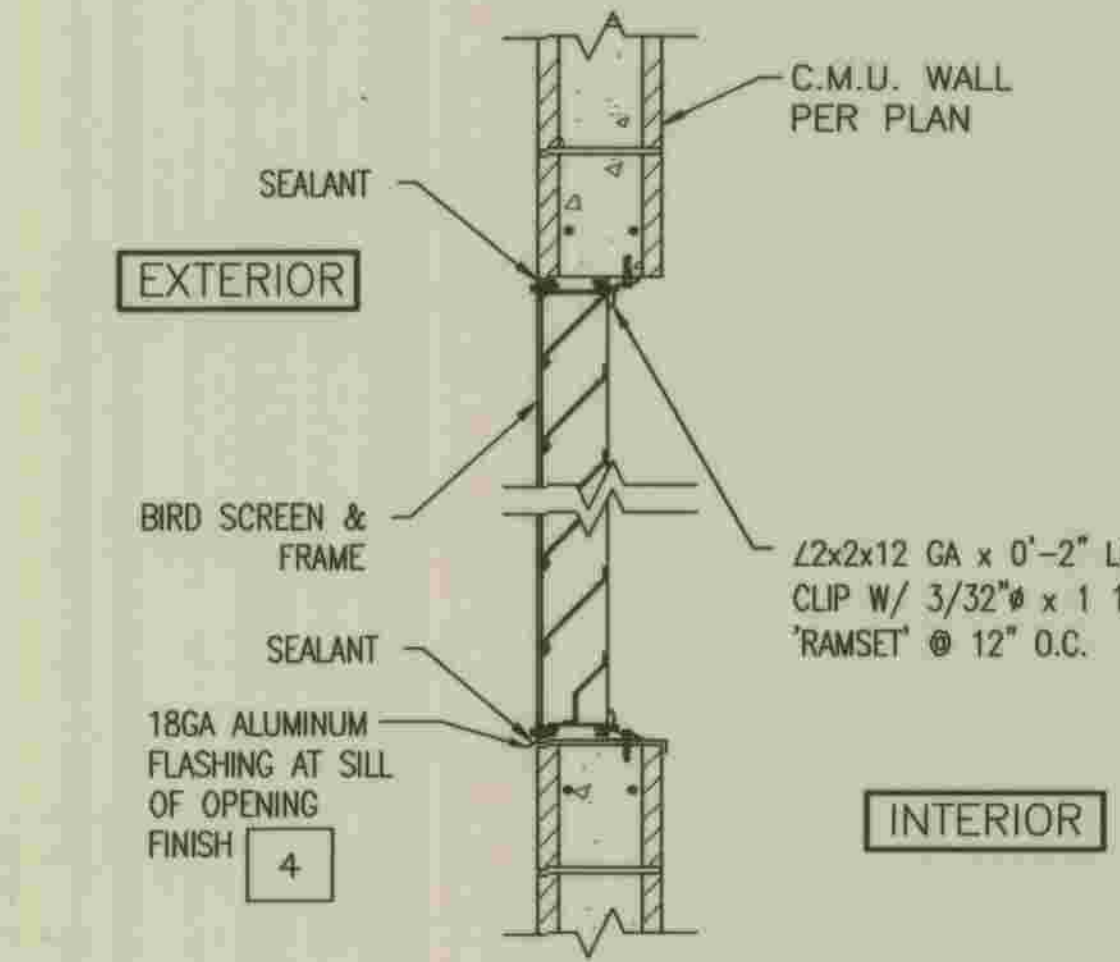
8 A-4.1



ROLL-UP DOOR SILL

SCALE: N.T.S.

9 A-4.1

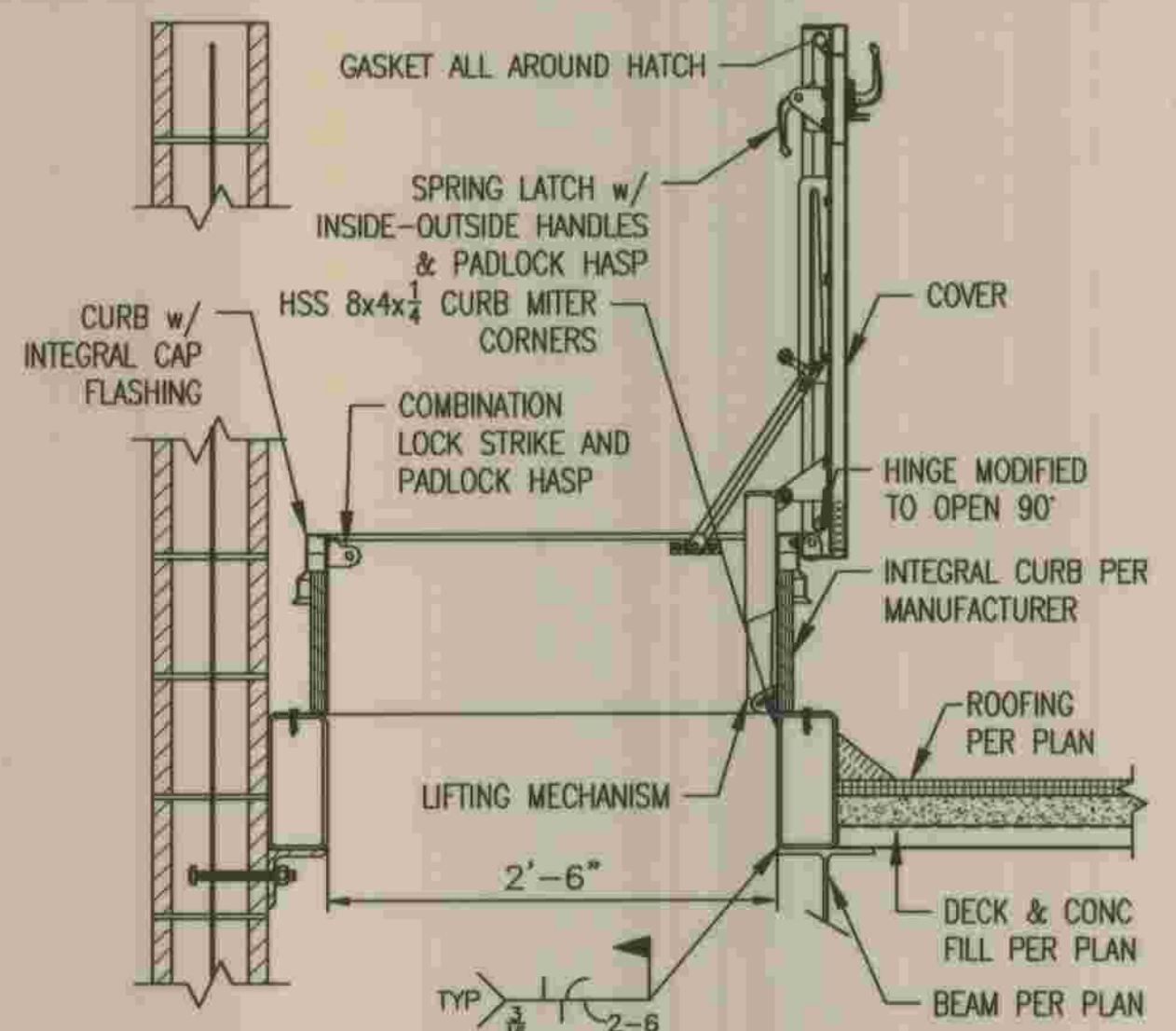


LOUVER HEAD & SILL - JAMB SIMILAR

SCALE: N.T.S.

10 A-4.1

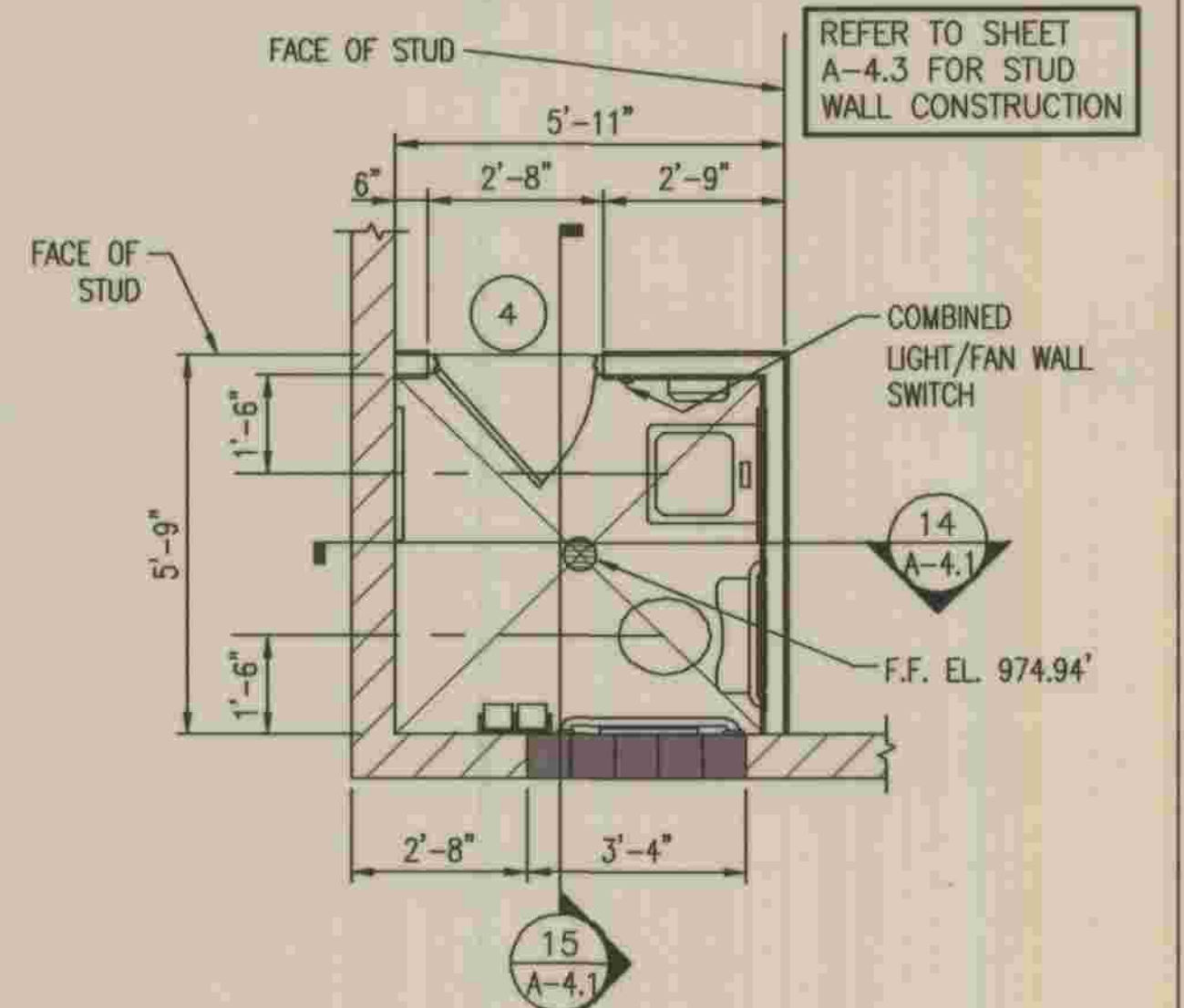
NOT USED



ROOF SCUTTLE

SCALE: 1" = 1'-0"

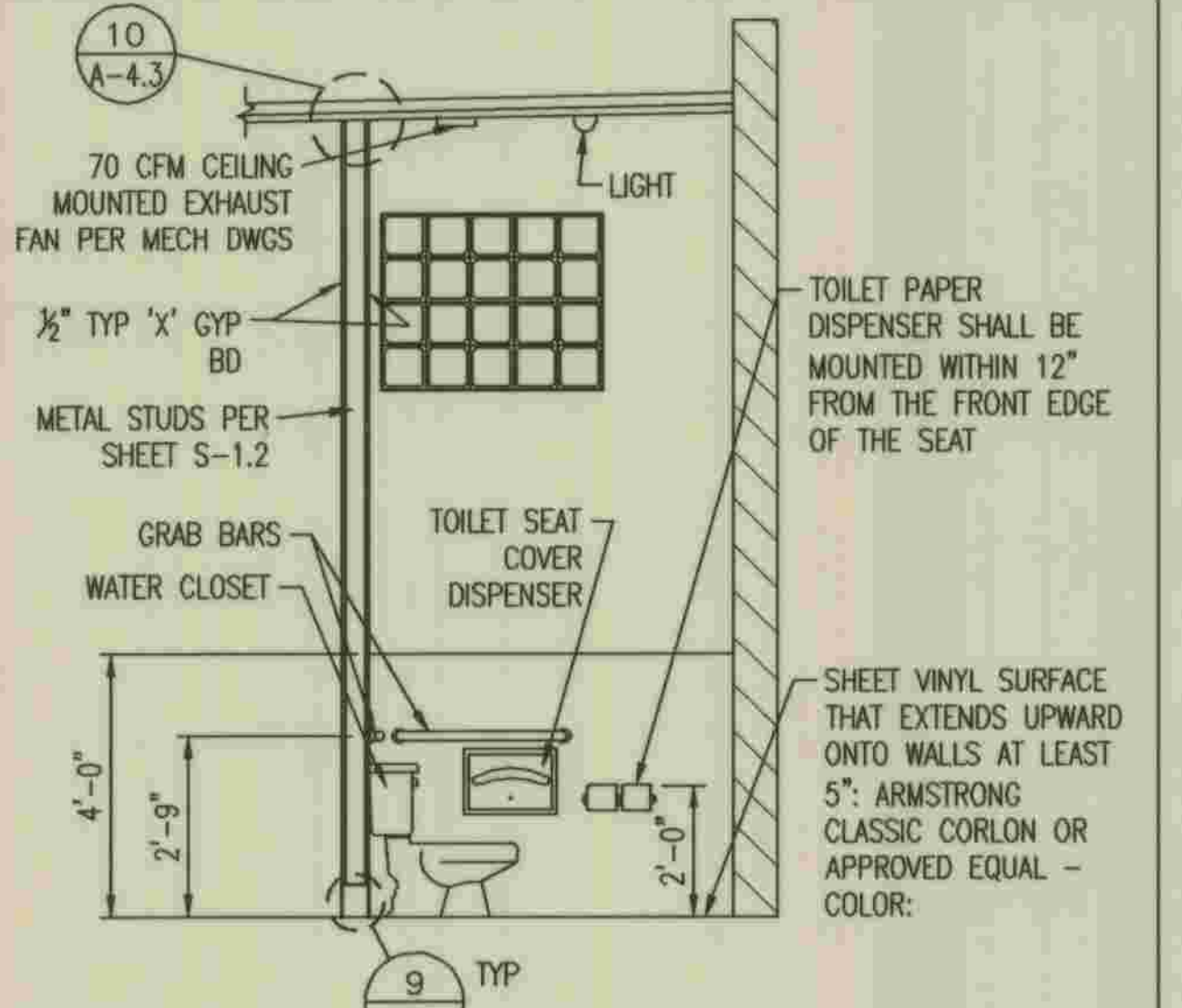
12 A-4.1



PLAN VIEW

3/8" = 1'-0"

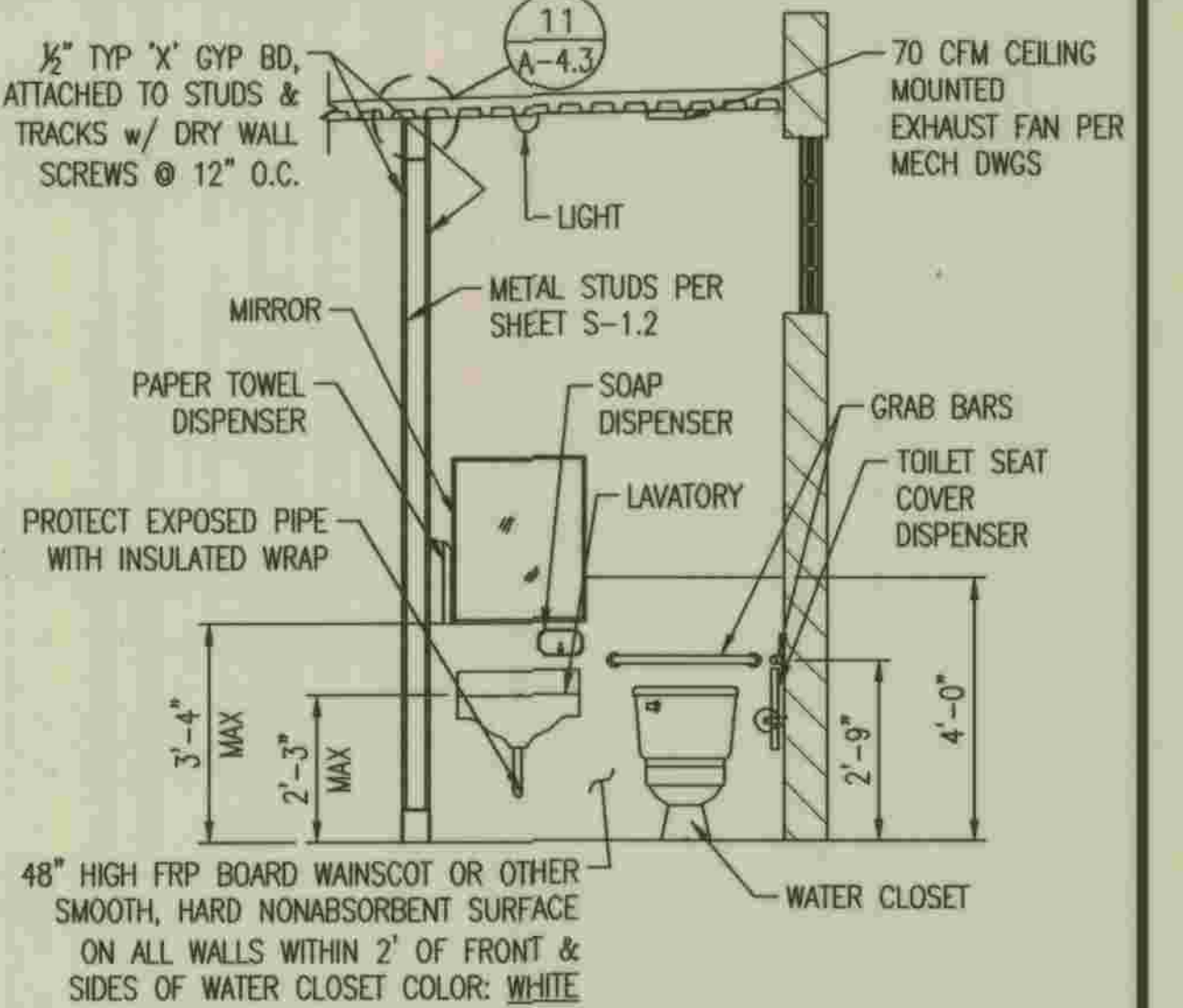
13 A-4.1



ELEVATION

3/8" = 1'-0"

14 A-4.1



ELEVATION

3/8" = 1'-0"

15 A-4.1

\\SANDICO\PROJECTS\07\07038\4-DWG\07038-A4-1.DWG 8/28/2009 8:33:54 AM

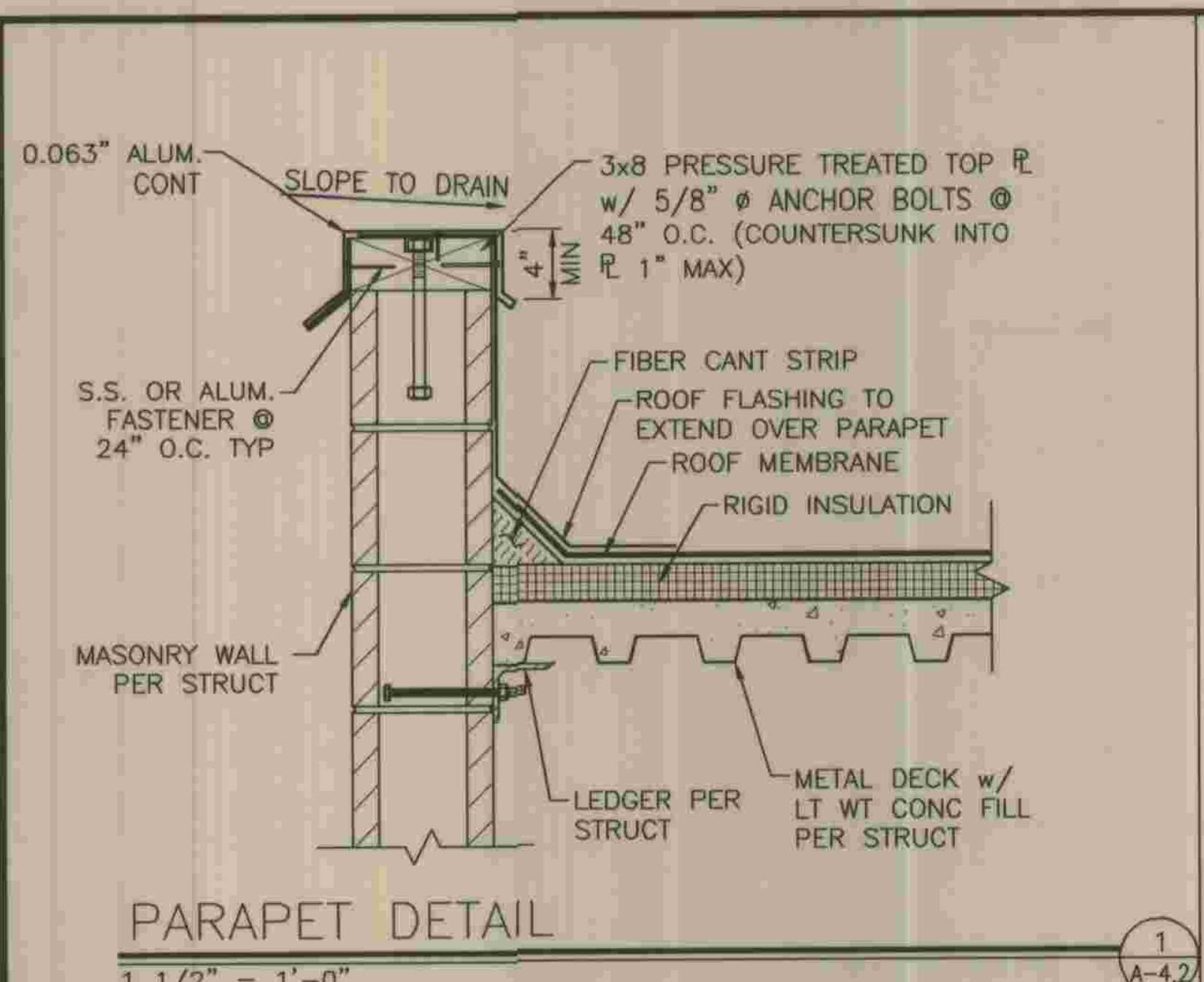


PLANS PREPARED BY
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Devlin A. Brown 5/28/09
DEVIN A. BROWN DATE

DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY
Julian Garcia 2-25-2012
LAND DEVELOPMENT DIVISION DATE

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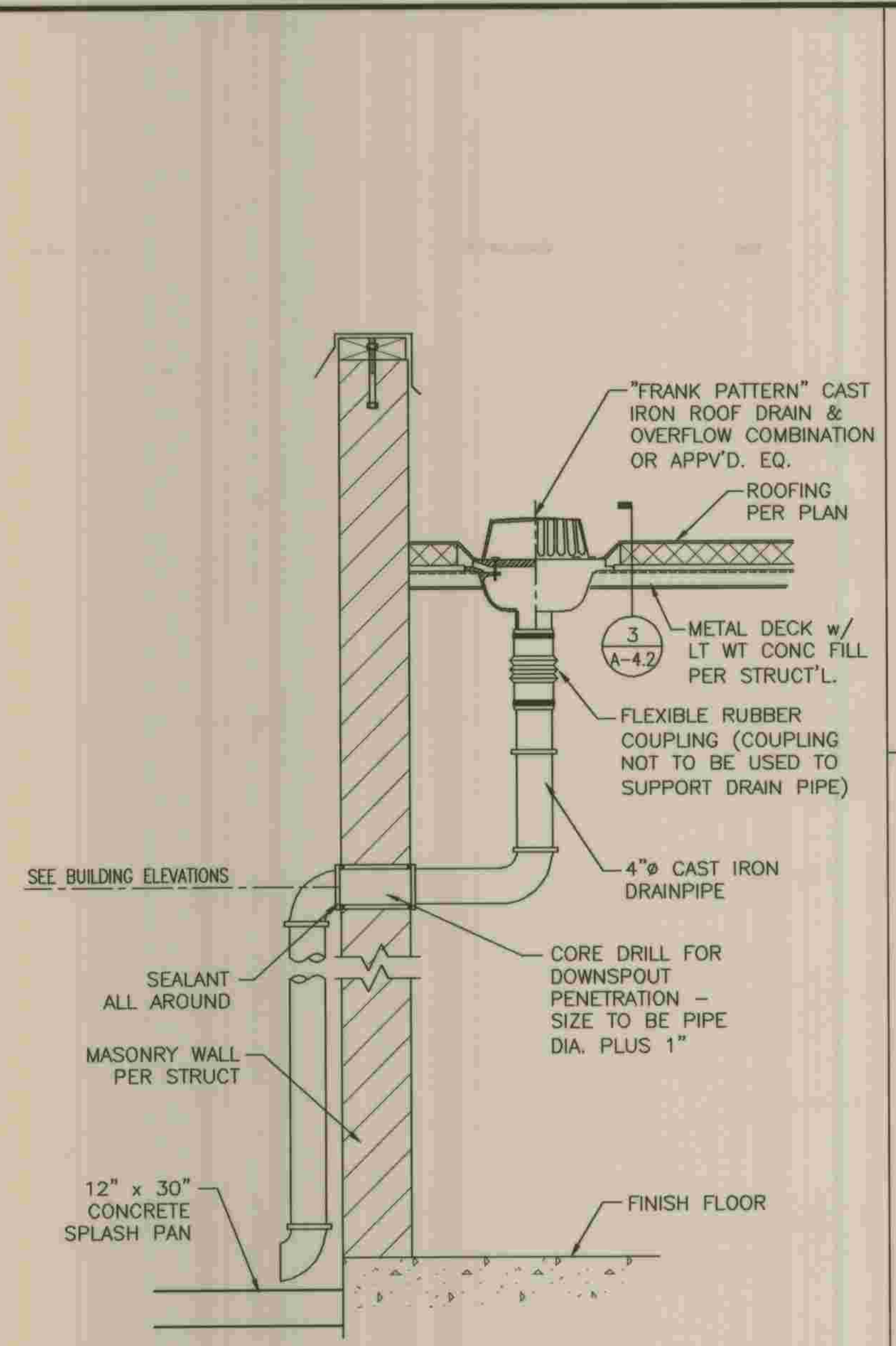
REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.		A-4.1
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS	SPEC. NO.	SHEET
HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY)	OF	9
PARCEL MAP NO. 26363	JOB NO.	OF
ARCHITECTURAL DETAILS	DRAWING NO.	61
		SHEETS



PARAPET DETAIL

1 1/2" = 1'-0"

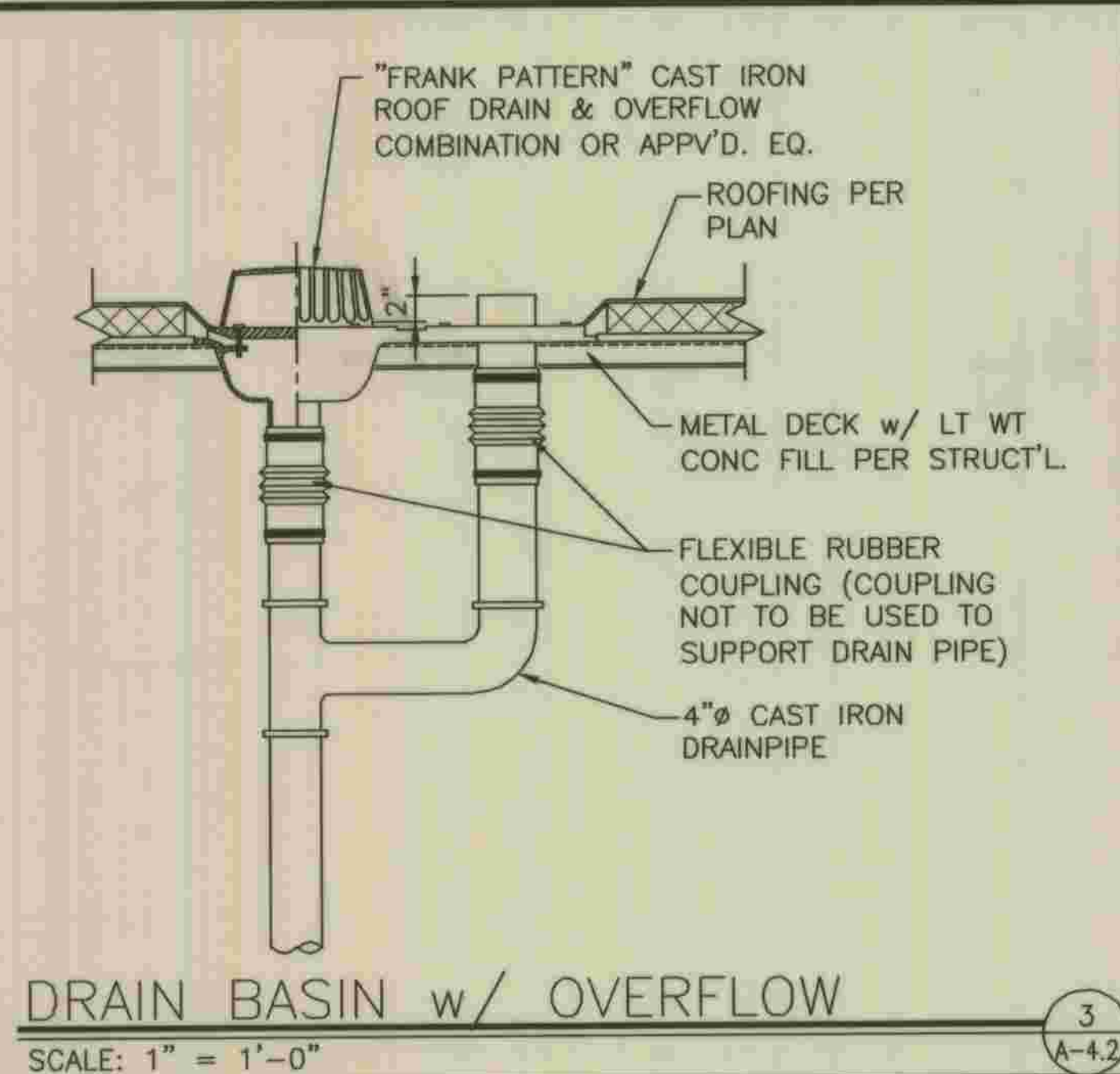
1 A-4.2



DRAIN BASIN & DOWNSPOUT

SCALE: 1" = 1'-0"

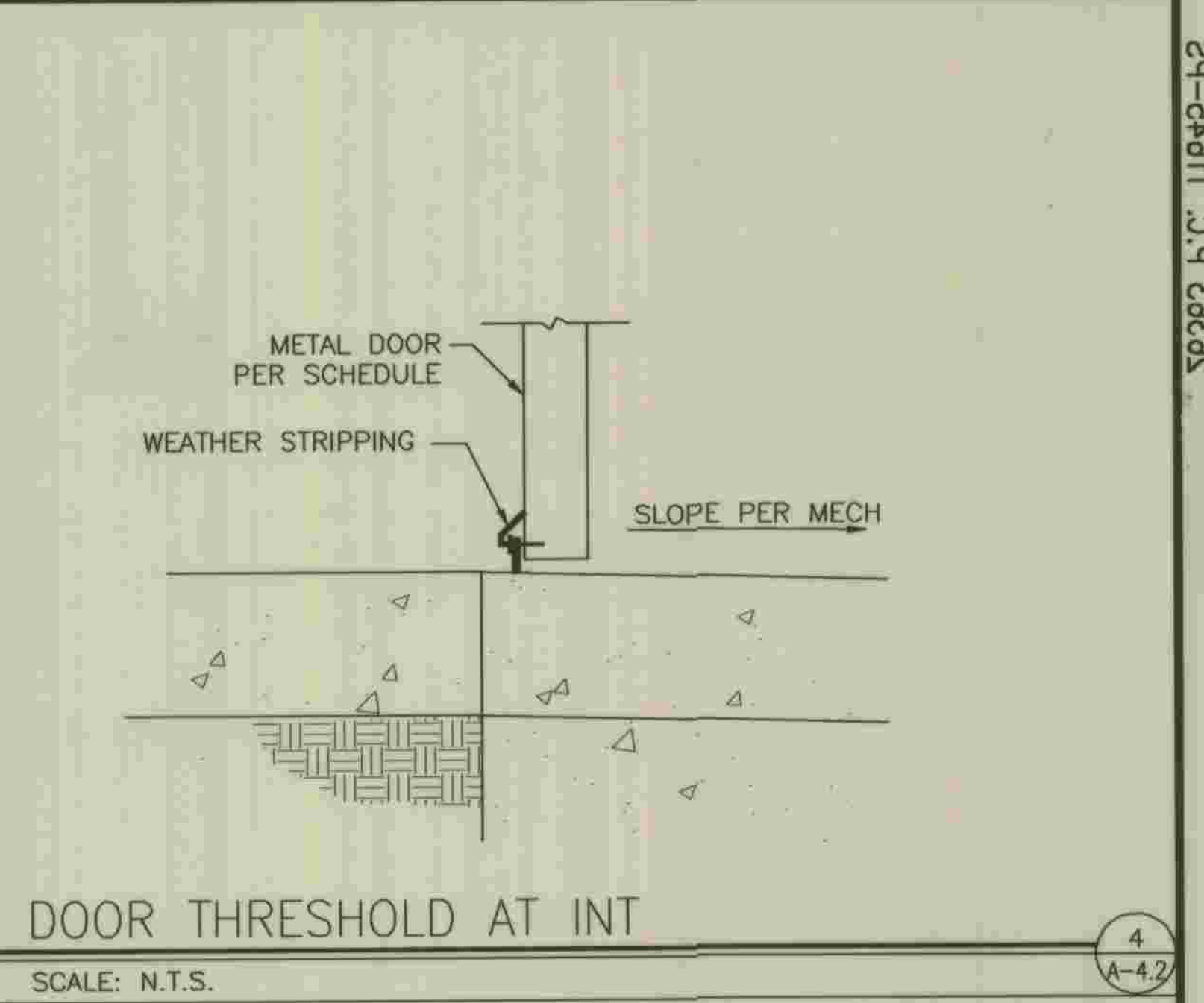
2 A-4.2



DRAIN BASIN w/ OVERFLOW

SCALE: 1" = 1'-0"

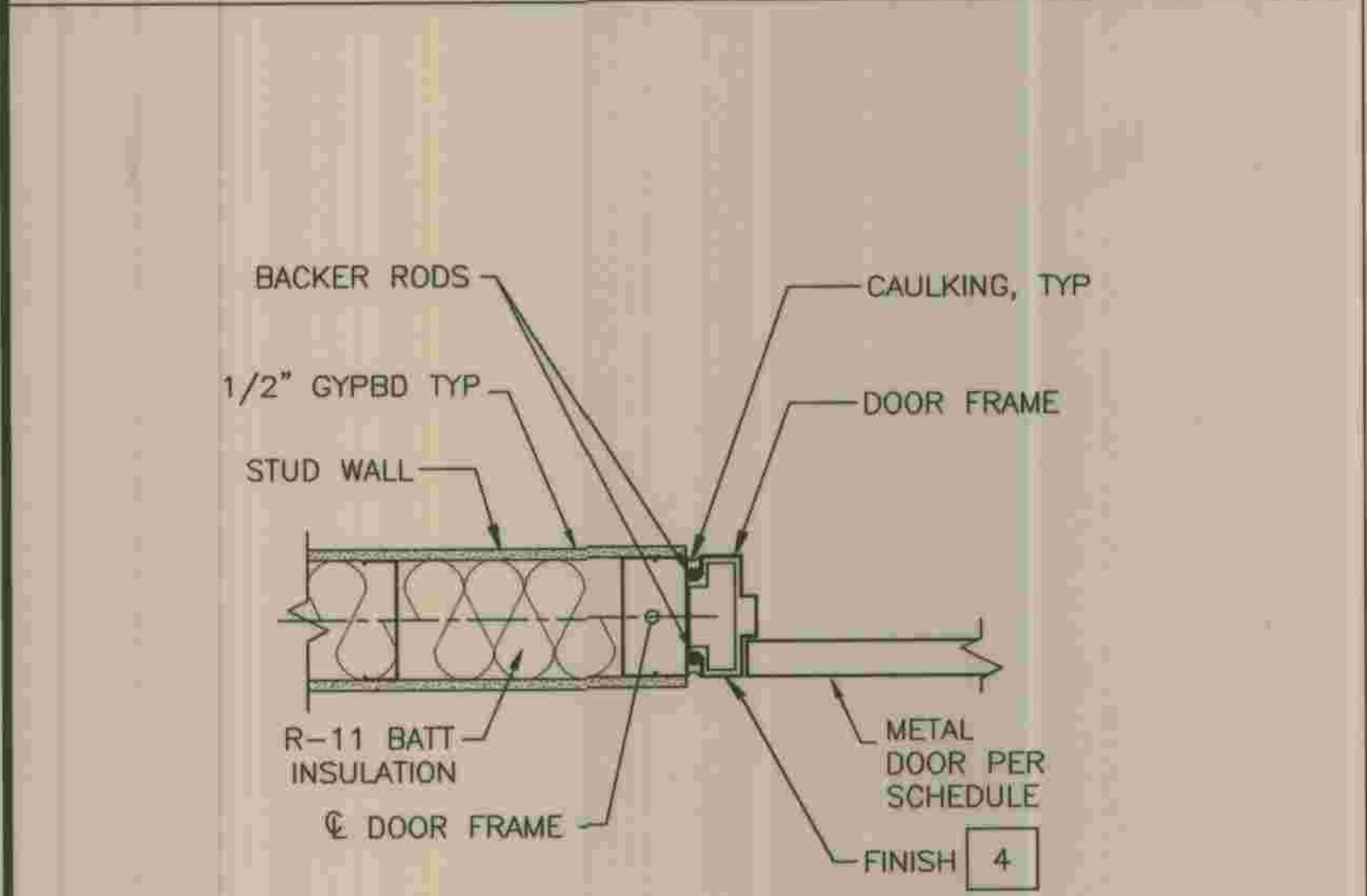
3 A-4.2



DOOR THRESHOLD AT INT

SCALE: N.T.S.

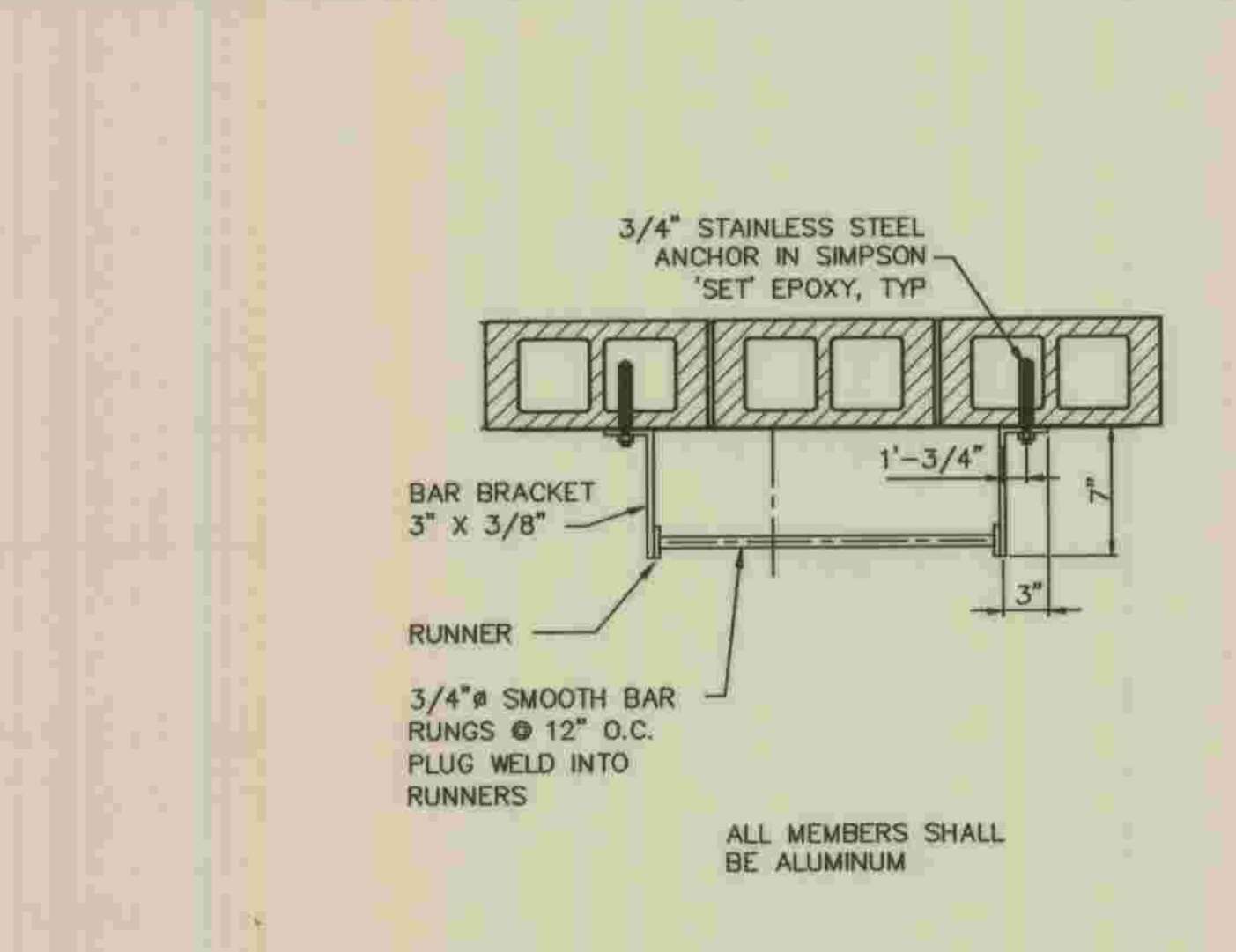
4 A-4.2



DOOR JAMB - HEAD SIMILAR

SCALE: 1" = 1'-0"

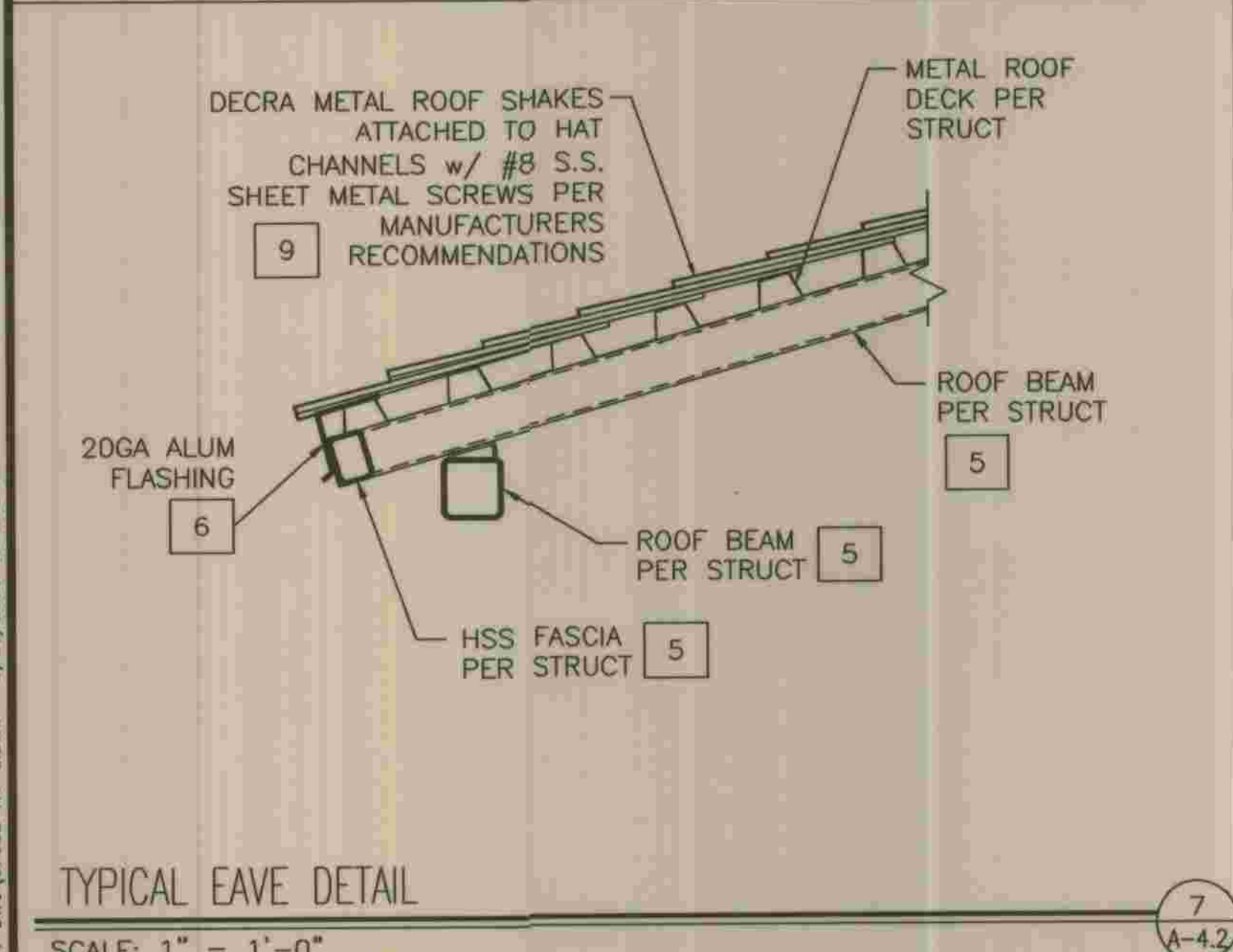
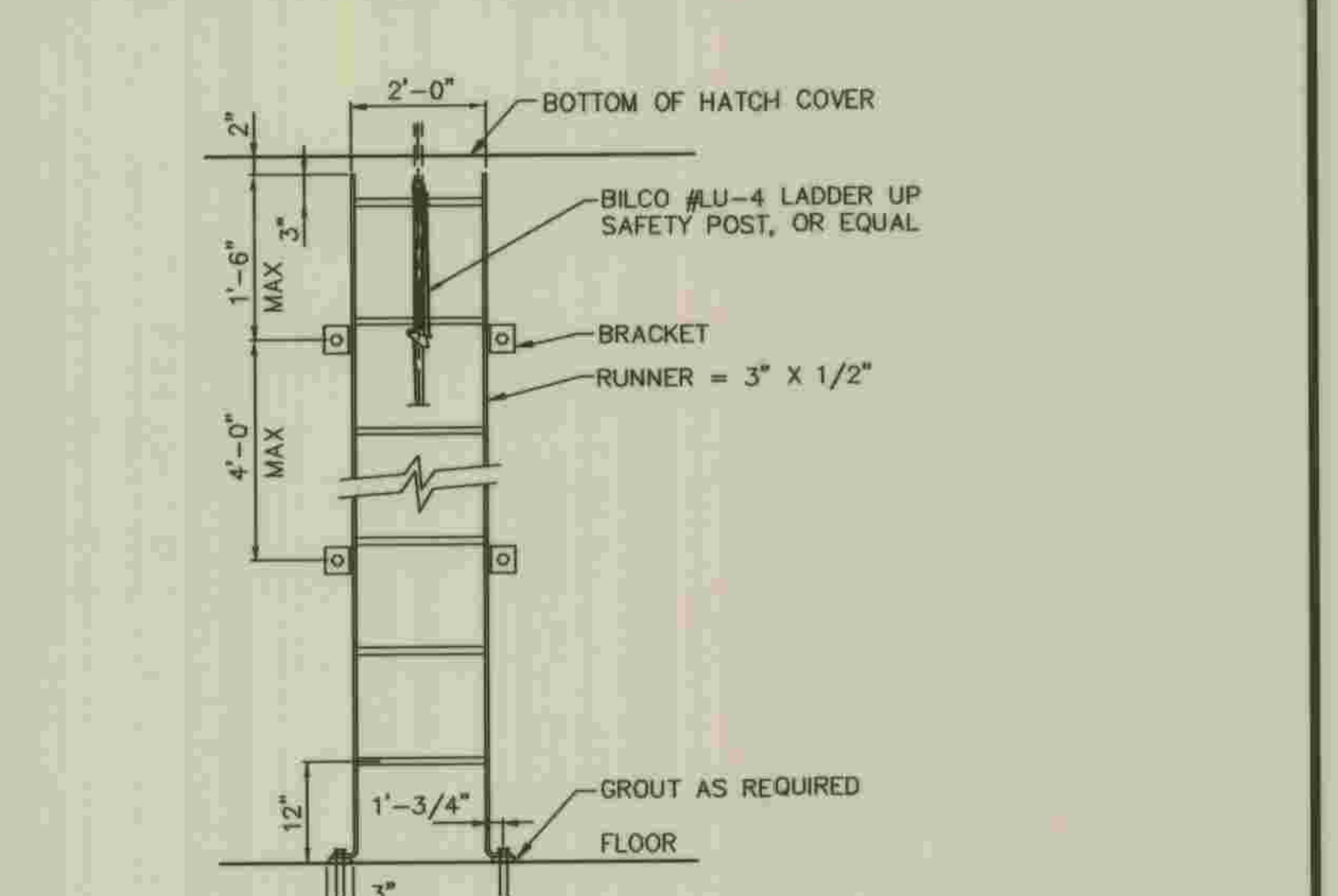
5 A-4.2



ROOF ACCESS LADDER

SCALE: NONE

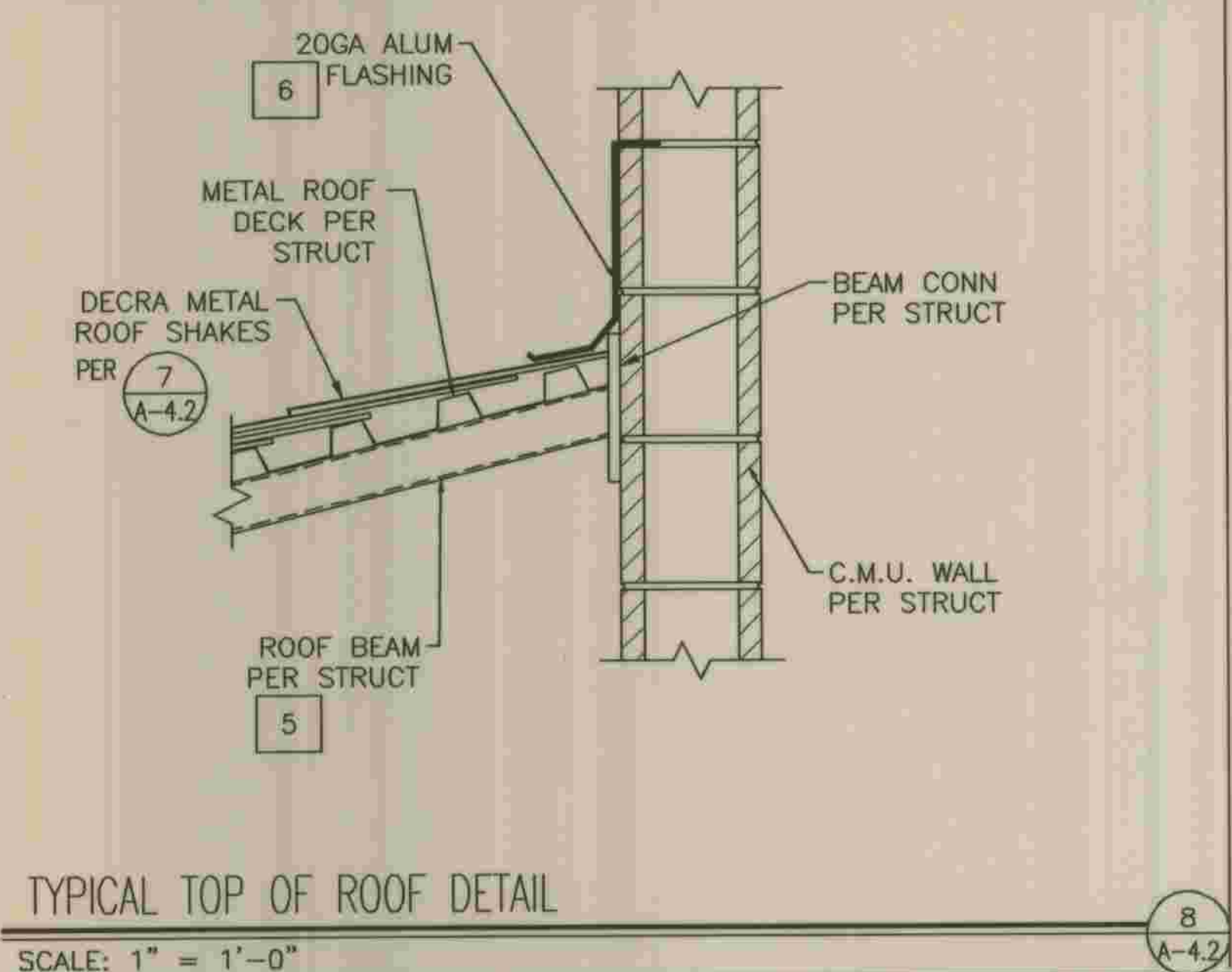
6 A-4.2



TYPICAL EAVE DETAIL

SCALE: 1" = 1'-0"

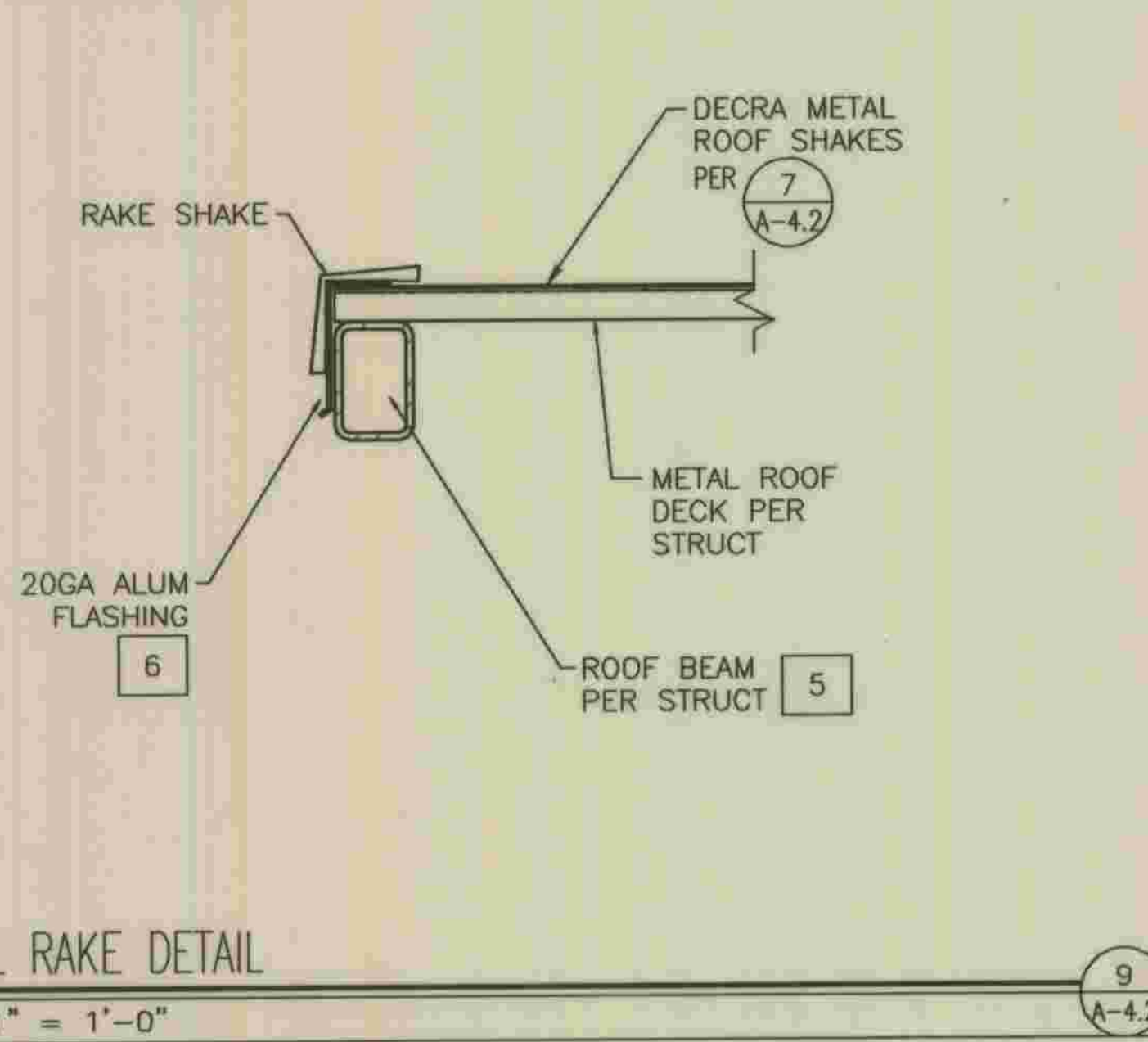
7 A-4.2



TYPICAL TOP OF ROOF DETAIL

SCALE: 1" = 1'-0"

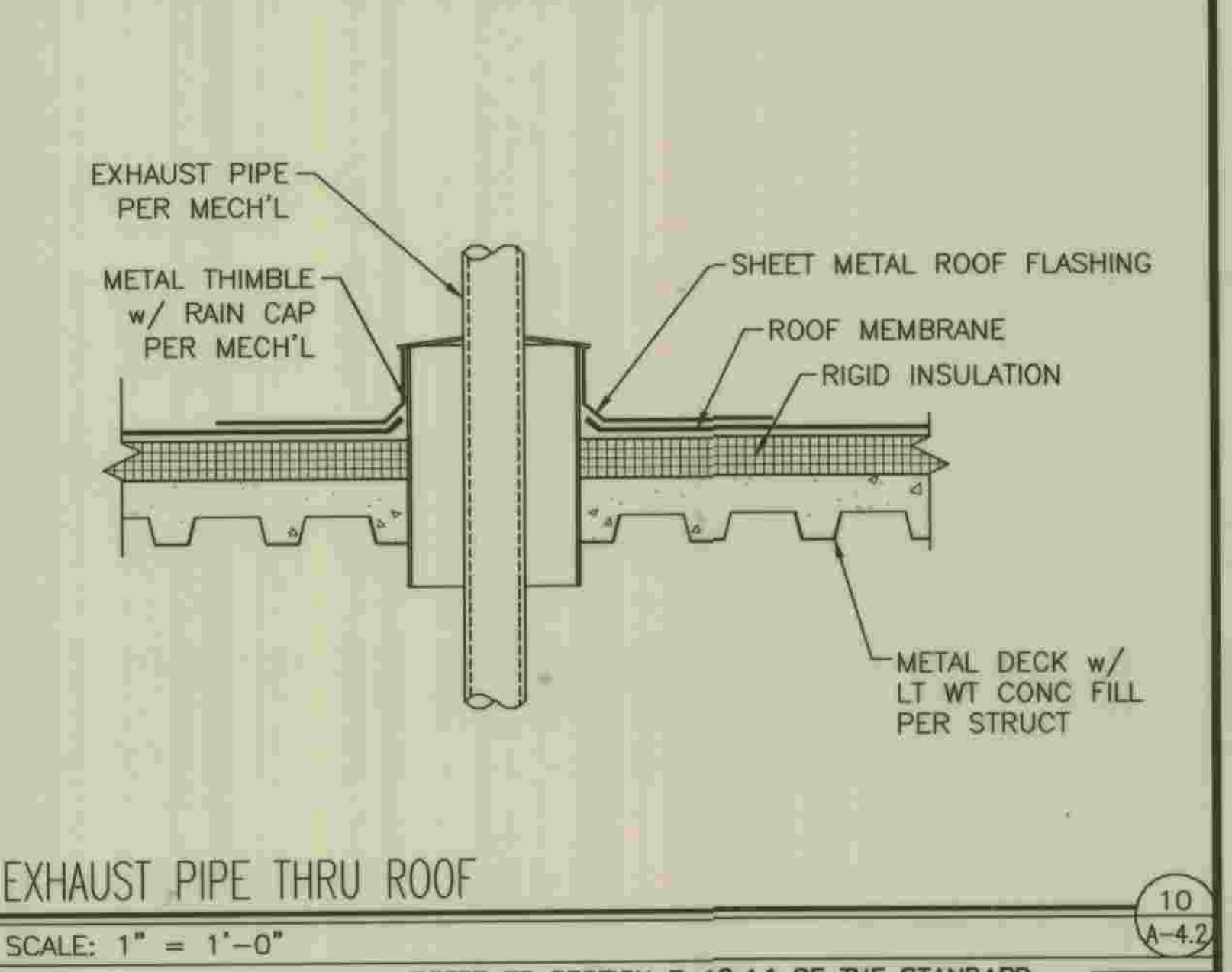
8 A-4.2



TYPICAL RAKE DETAIL

SCALE: 1" = 1'-0"

9 A-4.2

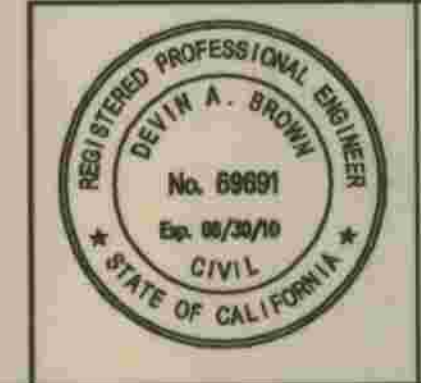


EXHAUST PIPE THRU ROOF

SCALE: 1" = 1'-0"

10 A-4.2

\\SANDBORO\PROJECTS\07\07058-4-DWG\07058-A4-2.DWG 5/29/2009 8:34:08 AM



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Devin A. Brown 5/28/09
 DEVIN A. BROWN DATE

DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY

John Brown 2-28-2012
 LAND DEVELOPMENT DIVISION DATE

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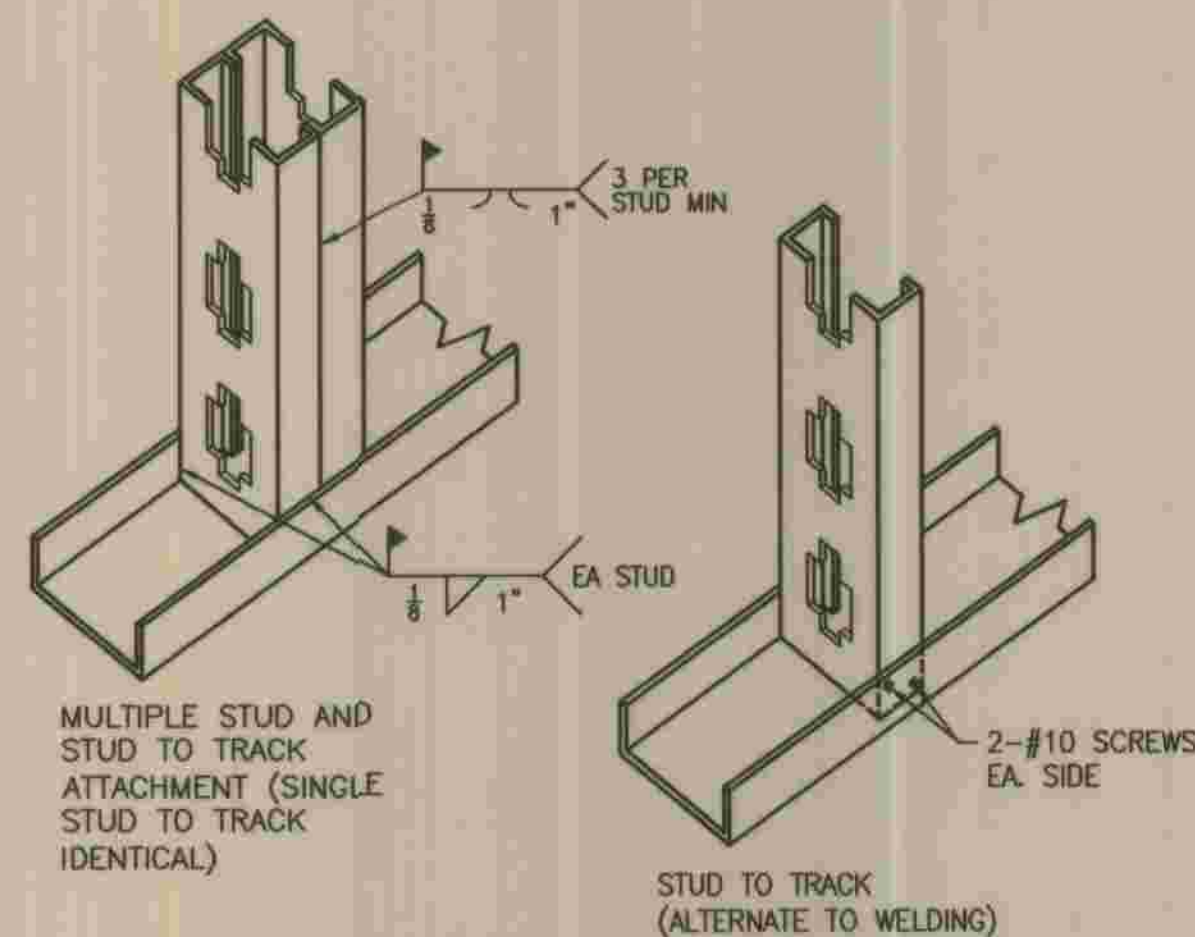
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LOS ANGELES COUNTY
 DEPARTMENT OF PUBLIC WORKS

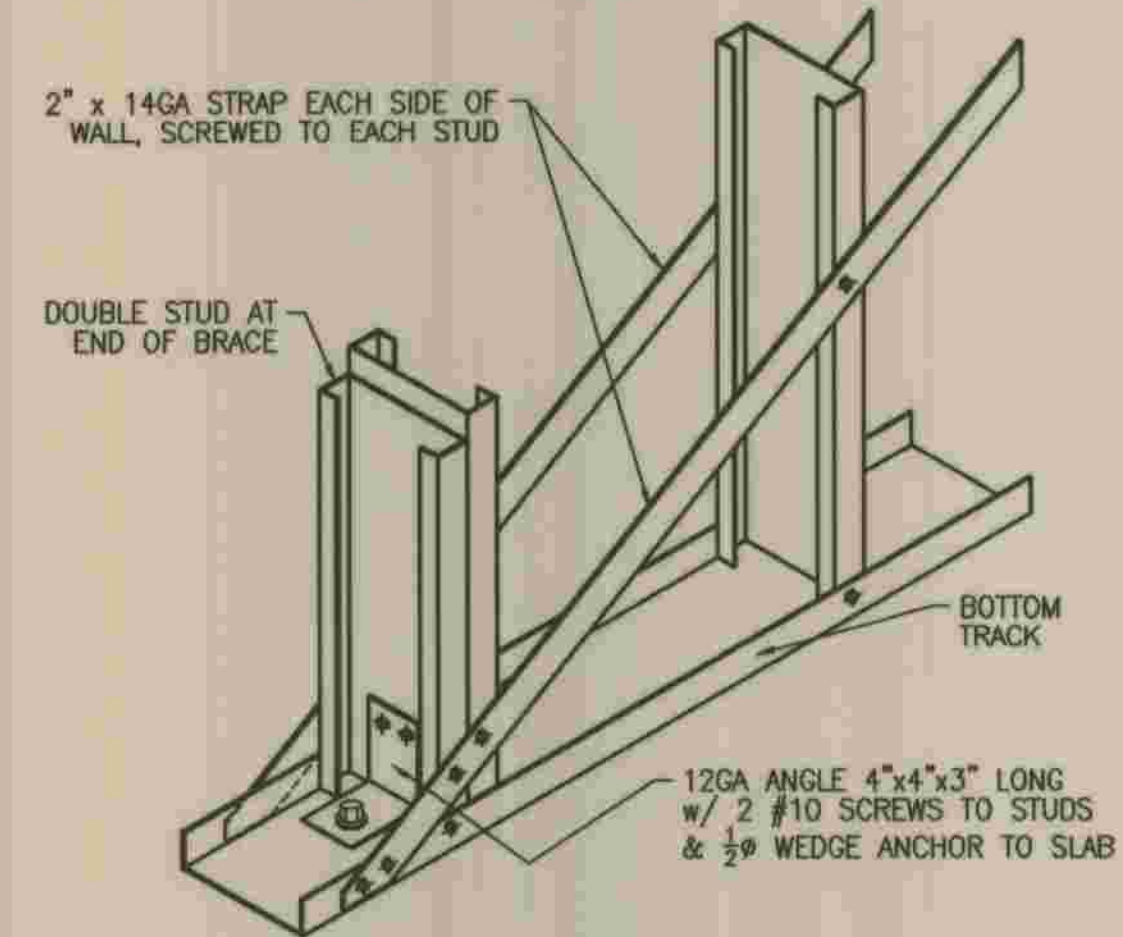
**HANCOCK PARKWAY
 SEWAGE LIFT STATION (TEMPORARY)**
 PARCEL MAP NO. 26363

ARCHITECTURAL DETAILS

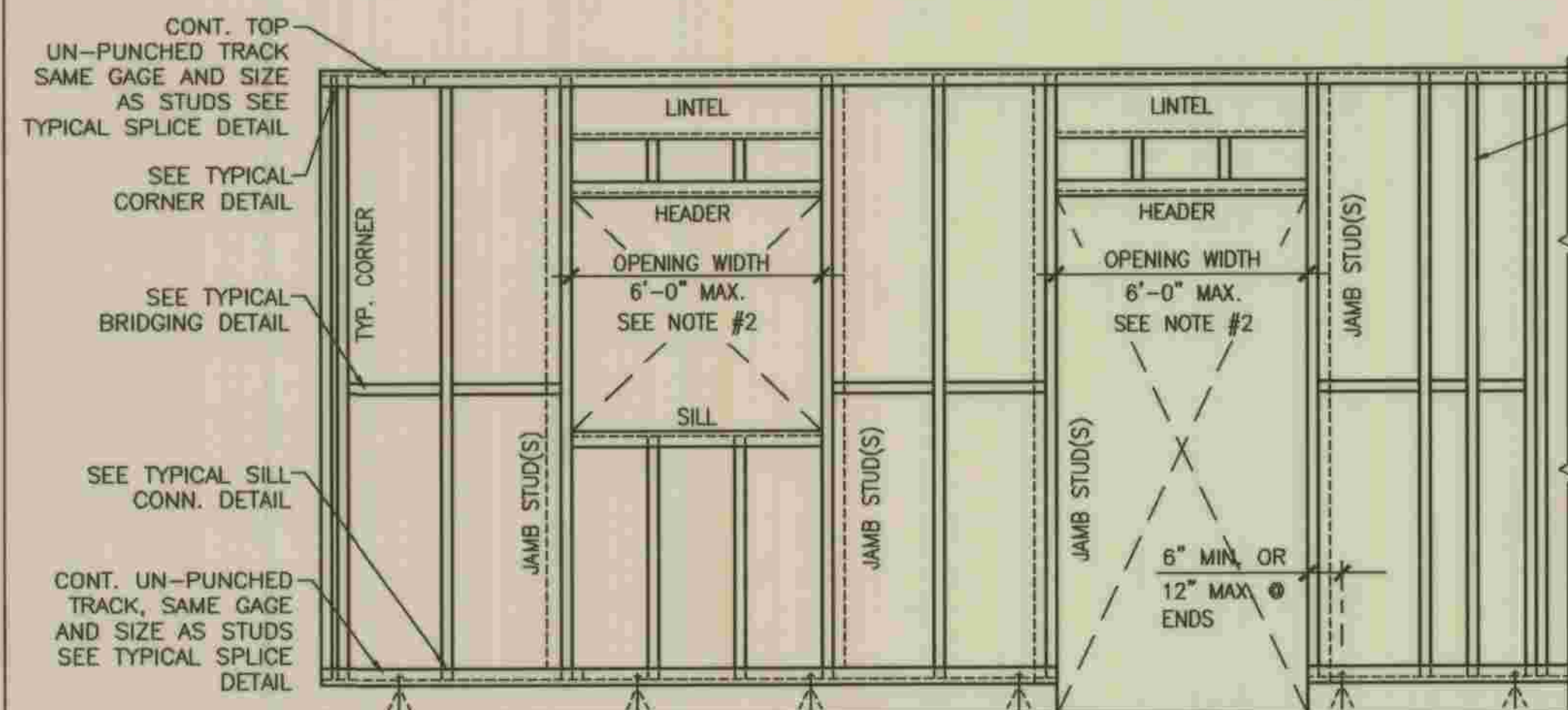
A-4.2	SHEET
10	OF
61	SHEETS



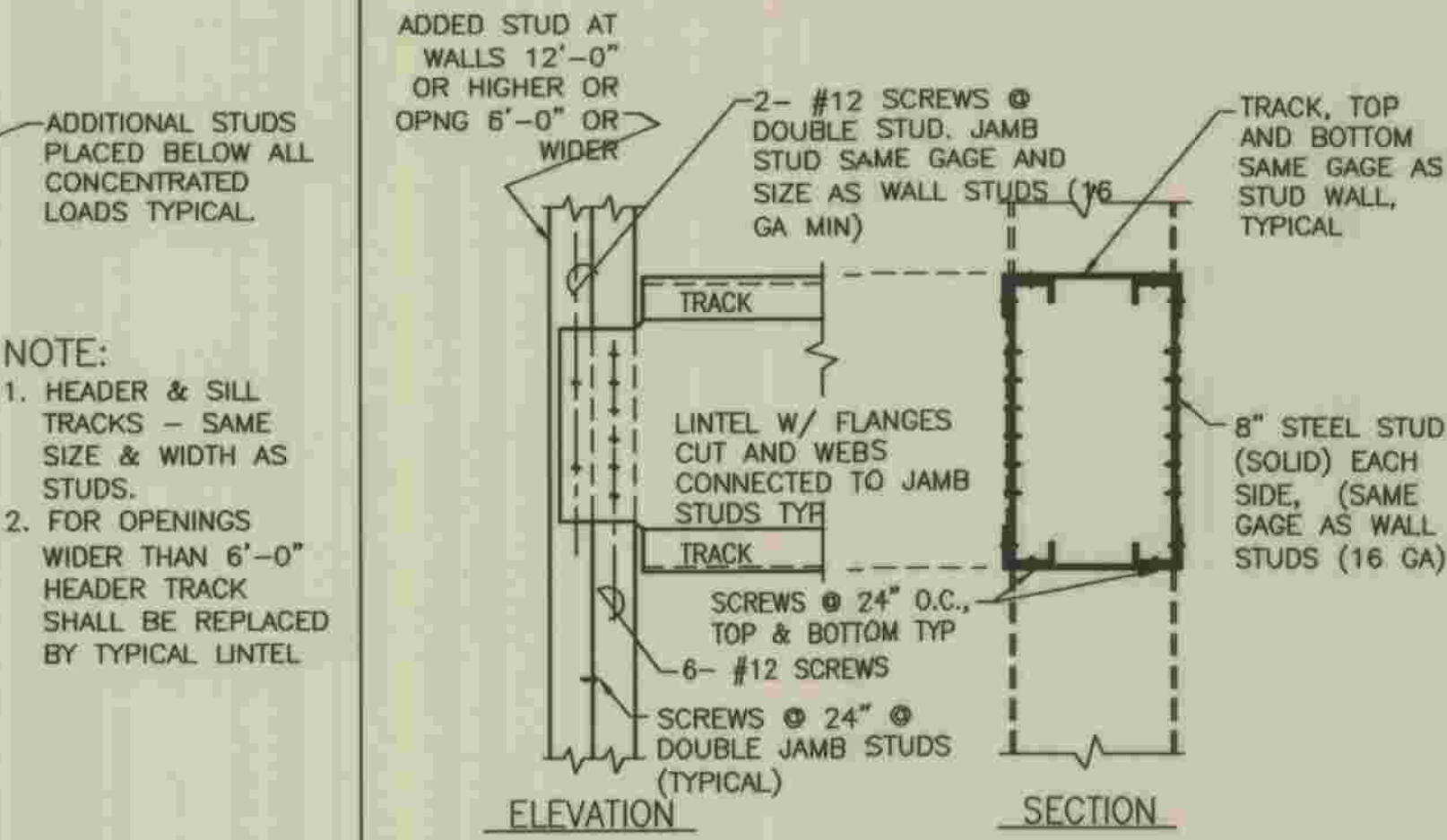
1
A-4.3
TYPICAL STEEL STUD CONNECTION
N.T.S.



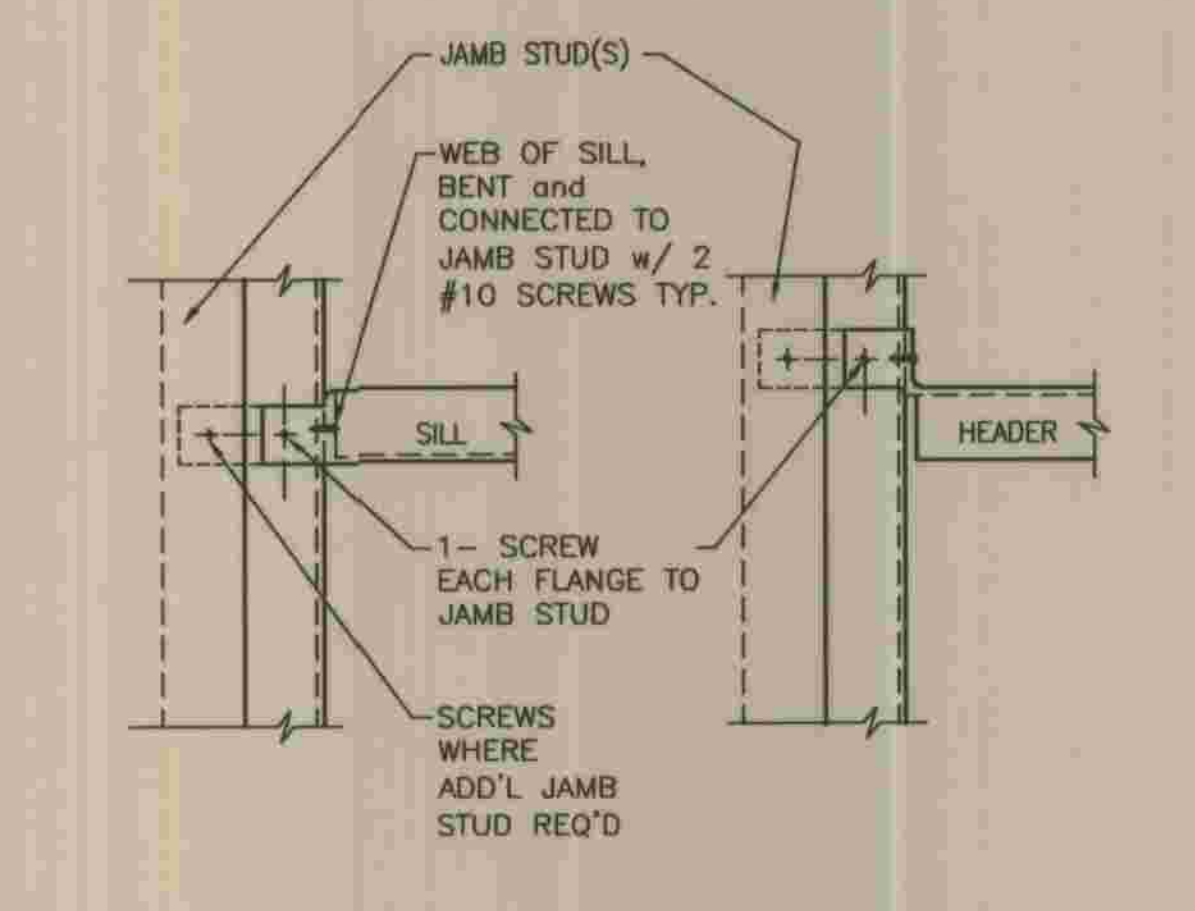
2
A-4.3
DIAGONAL BRACING
N.T.S.



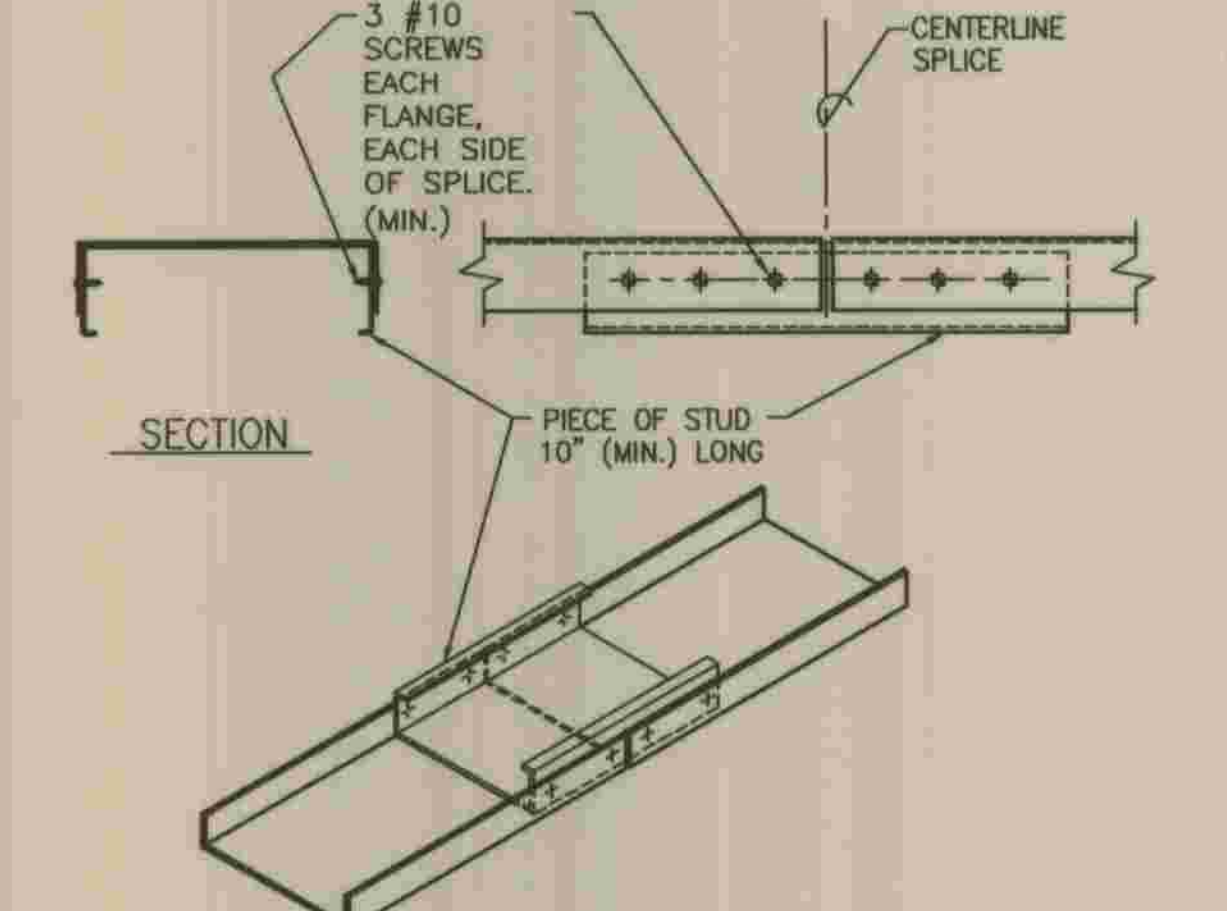
3
A-4.3
PARTIAL INTERIOR WALL ELEVATION WITH OPENINGS
N.T.S.



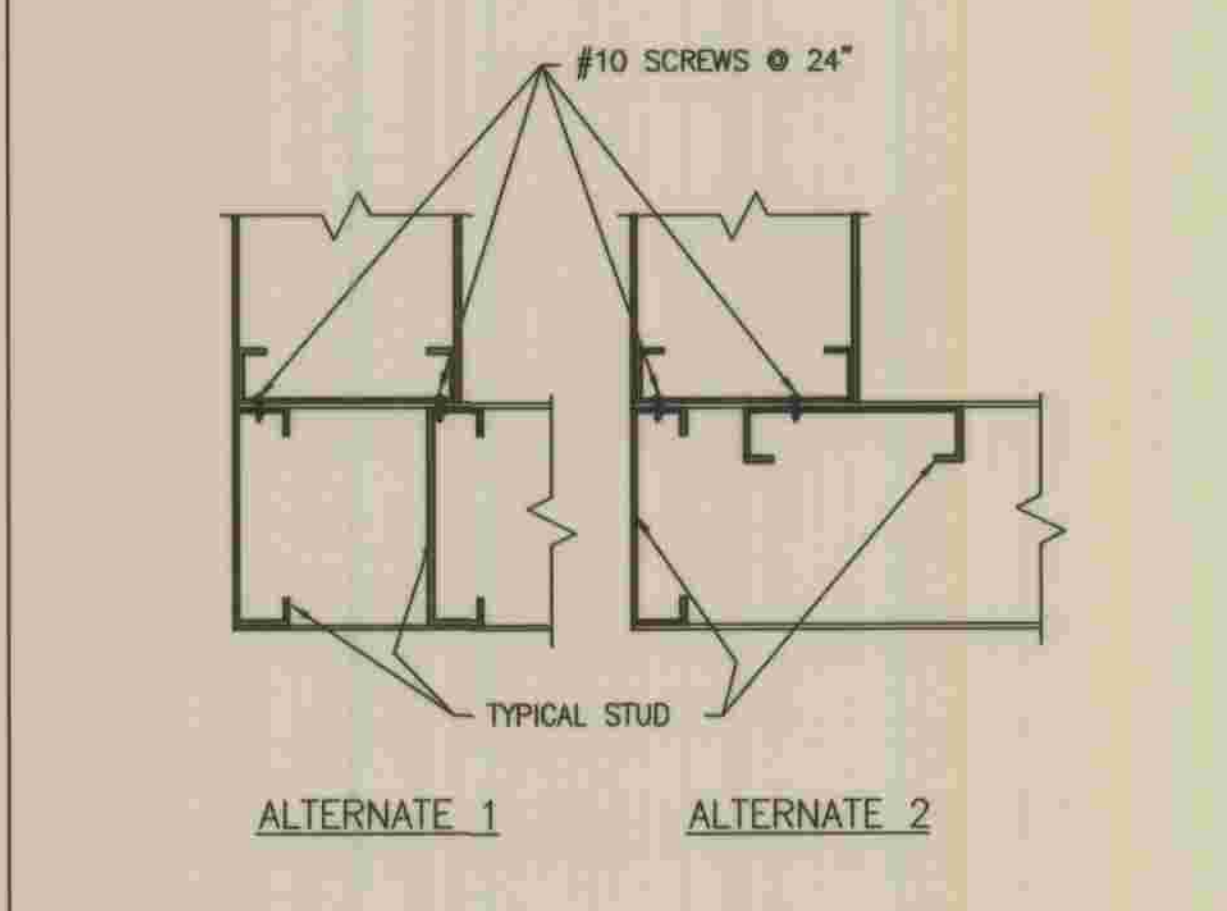
4
A-4.3
TYPICAL LINTEL SUPPORT CONNECTION
N.T.S.



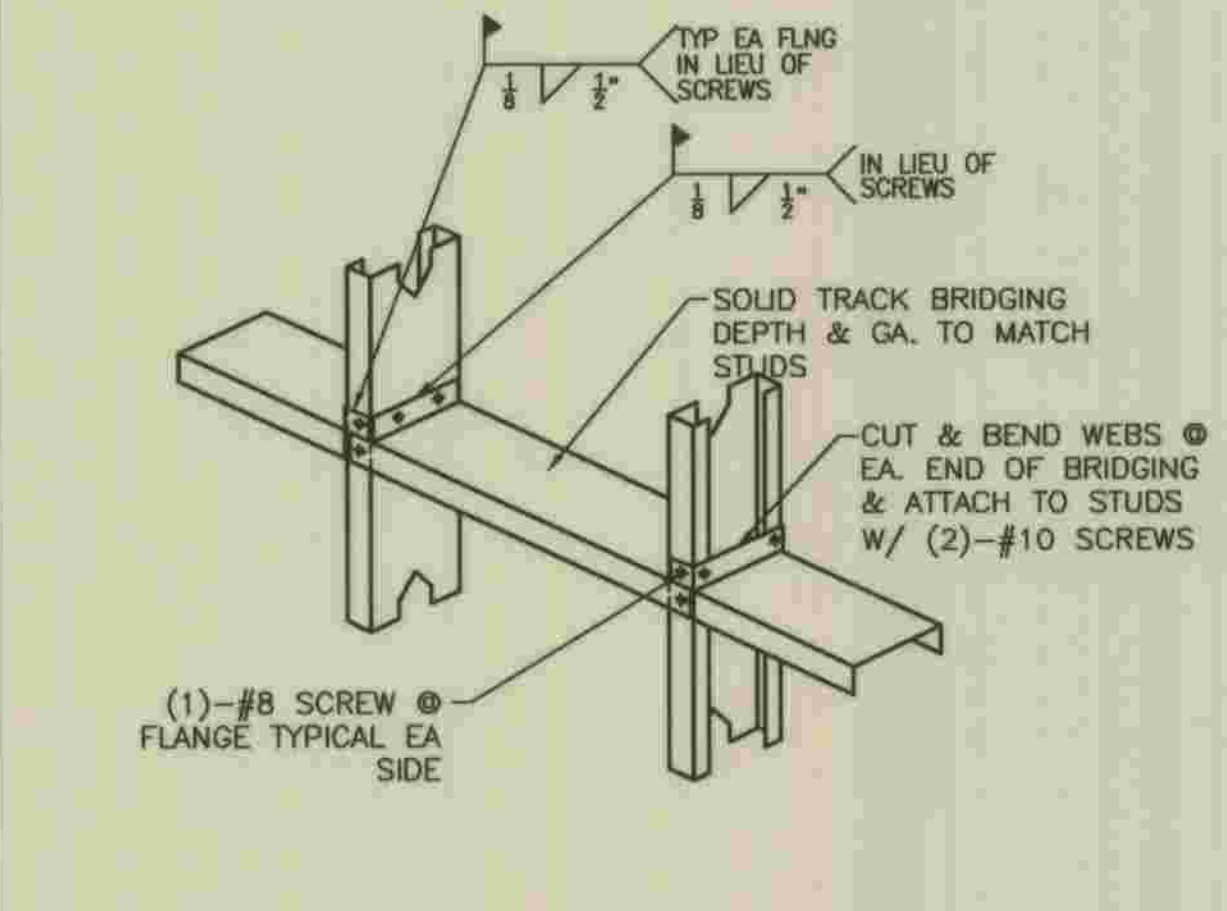
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A-4.3
SILL OR HEADER DETAIL
N.T.S.



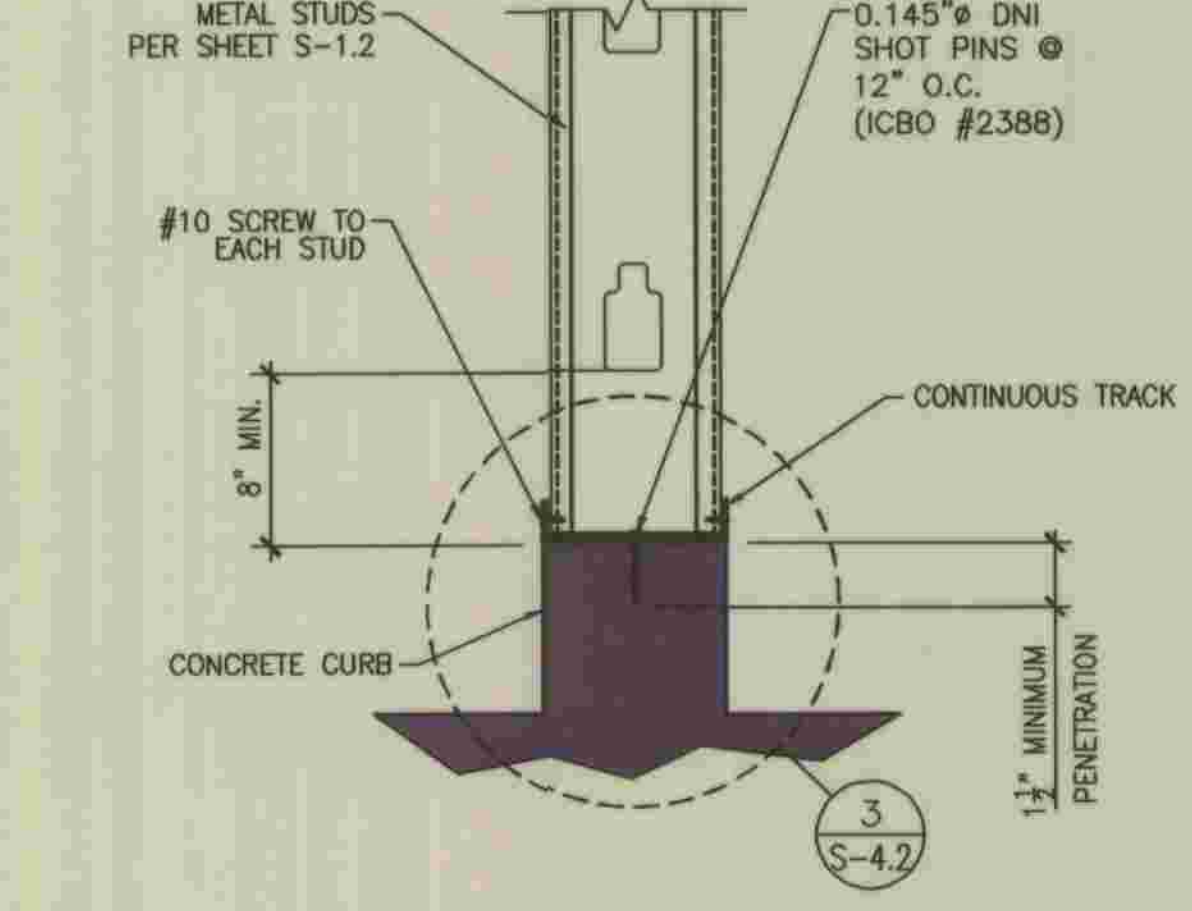
6
A-4.3
TOP OR BOTTOM TRACK SPLICE
N.T.S.



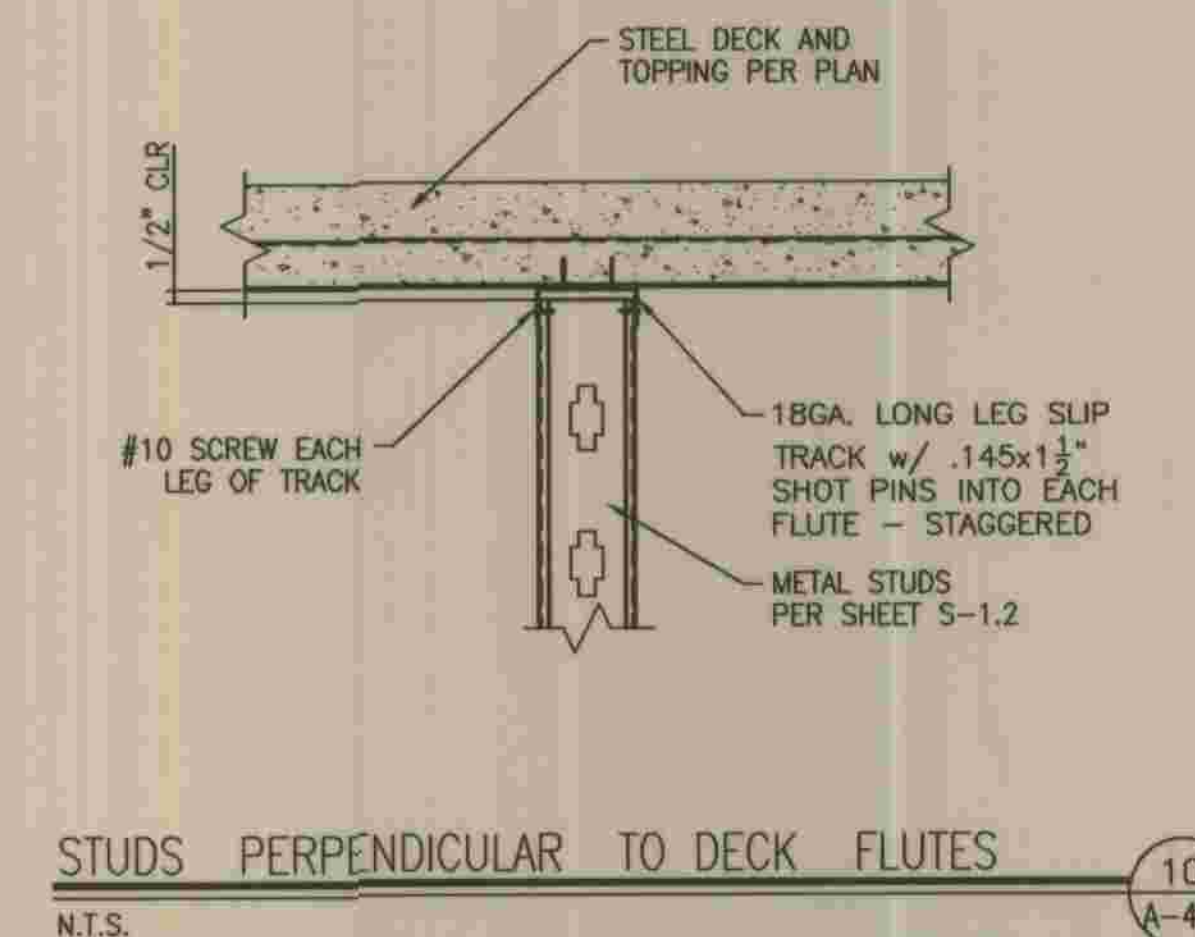
7
A-4.3
PLAN - TYPICAL CORNER
N.T.S.



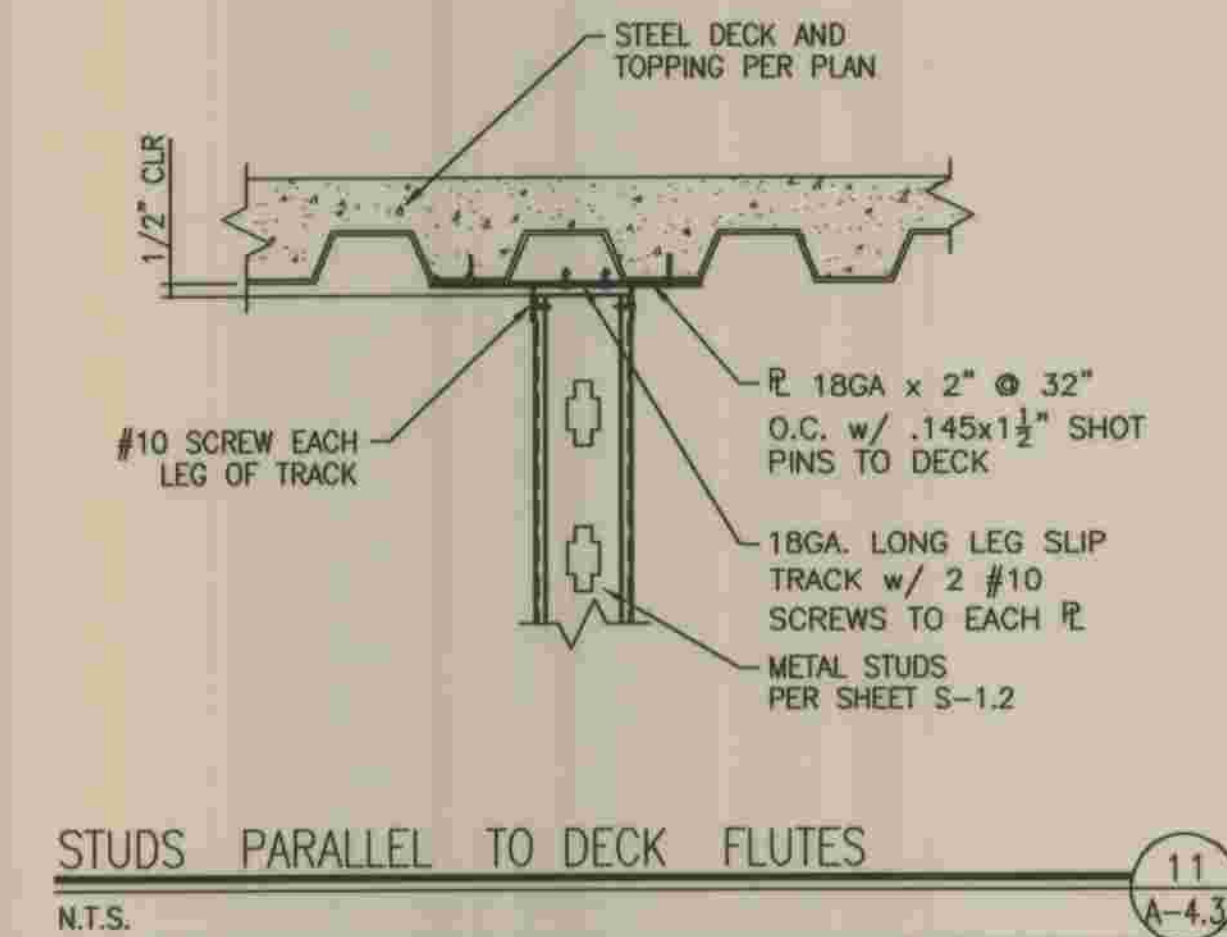
8
A-4.3
TYPICAL SOLID BRIDGING FOR METAL STUDS
N.T.S.



9
A-4.3
BOTTOM OF WALL AT CONCRETE SLAB
N.T.S.



10
A-4.3
STUDS PERPENDICULAR TO DECK FLUTES
N.T.S.



11
A-4.3
STUDS PARALLEL TO DECK FLUTES
N.T.S.

REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS. A-4.3

	<p>PLANS PREPARED BY R2H ENGINEERING, INC. CONSULTING STRUCTURAL ENGINEERS 17150 VAN DEL CAMPO, SUITE 308 SAN DIEGO, CA 92127 PHONE (858) 873-8418 FAX (858) 873-8418</p>	<p>DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY</p>	<table border="1"> <tr><td>NO.</td><td>DATE</td><td>DRAWN BY</td><td>CHECK BY</td><td>REVISION</td><td>APPR'D BY</td><td>APPR'D BY</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY								<p>LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS</p>	<p>SPEC. NO.</p>	<p>SHEET</p>
				NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY										
<p>DEVIN A. BROWN DATE 5/28/07</p>	<p>2-28-2012</p>	<p>LANCASHIRE DIVISION</p>	<p>HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PARCEL MAP NO. 26363</p>	<p>OF</p>	<p>OF</p>	<p>61</p>														
			<p>ARCHITECTURAL DETAILS</p>				<p>DRAWING NO.</p>	<p>SHEETS</p>												

\\SANDEG01\PROJECTS\07107058\4-DWG\07058-44-3.DWG 5/28/2009 8:54:23 AM

STRUCTURAL SHOP DRAWINGS

- 1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR THE ITEMS CHECKED BELOW.
2. ALL SHOP DRAWINGS SUBMITTED TO THE ENGINEER FOR REVIEW SHALL BE STAMPED AND SIGNED BY THE CONTRACTOR INDICATING THAT HE HAS FOUND THEM TO BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND THAT PROPER PROVISION HAS BEEN MADE TO ACCOMMODATE ALL ABUTTING WORK.
3. THE ENGINEER WILL REVIEW THE SHOP DRAWING SUBMITTALS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND CONTRACT DOCUMENTS.
4. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATING HIS WORK AND THAT OF OTHER TRADES AND PERFORMING HIS WORK IN A SAFE AND SATISFACTORY MANNER.
5. STRUCTURAL SHOP DRAWING SUBMITTALS SHALL INCLUDE:

- STRUCTURAL STEEL
• MISCELLANEOUS STEEL (WHERE PARTS ARE SHOP WELDED)
• ANCHOR BOLT LAYOUTS
• CONCRETE MIX
• MASONRY
• REINFORCING STEEL
• FIBER REINFORCED PLASTIC (FRP)

STAINLESS STEEL

- 1. STAINLESS STEEL SHEET AND PLATE SHALL CONFORM TO ASTM A-240.
2. STAINLESS STEEL FASTENERS AND FITTINGS SHALL CONFORM TO ASTM A-320, TYPE 316.

REINFORCING BAR SPLICE ANCHORS

- 1. DAYTON/RICHMOND DOWEL SPLICE ANCHORS & DOWELS SHALL CONFORM TO I.C.B.O. REPORT No. 4028, OR EQUAL.

BUILDING CRITERIA

- 1. DESIGN CODE: 2001 CALIFORNIA BUILDING CODE
2. ROOF FRAMING: LIVE LOAD = 20 PSF
3. WIND LOADING: P = CeCqqtsw Co = 1.10, EXPOSURE C
Cq = PER C.B.C. TABLE 16-H
qs = 12.8 PSF, 70 MPH WIND SPEED
lw = 1.15

V = 2.5 * Ca * I / R * W
I = 1.25
R = 4.5
W = WEIGHT

Table with 3 columns: PARAMETER, VALUE, CBC REFERENCE. Includes seismic zone factor, soil profile type, seismic coefficient, etc.

SITE IS LOCATED <2KM MILES FROM A (TYPE 'B') FAULT

STRUCTURAL STEEL

- 1. MATERIAL AND WORKMANSHIP SHALL CONFORM TO A.I.S.C. SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, LATEST EDITION.
2. STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING A.S.T.M. DESIGNATION:

Table with 2 columns: MEMBER, DESIGNATION. Lists 'W' ROLLED SHAPES, BOLTS, STRUCTURAL TUBING, OTHER STRUCTURAL STEEL & MISCELLANEOUS METALS.

- 3. PROVIDE FULL BEARING ON UNTHREADED PORTION OF SHANK FOR BOLTS AT ALL STEEL MEMBER CONNECTIONS UNLESS NOTED OTHERWISE.
4. ALL STRUCTURAL STEEL MEMBERS ON INTERIOR OF PUMP STATION TO BE HOT DIP GALVANIZED.
5. WELDS SHALL BE MADE ONLY BY CERTIFIED WELDERS AS PRESCRIBED IN THE STANDARD CODE FOR WELDING IN BUILDING CONSTRUCTION OF THE AMERICAN WELDING SOCIETY.
6. WELDING ELECTRODES: LOW HYDROGEN E70XX SERIES PER A.W.S. D1-1, UNLESS NOTED OTHERWISE.
7. ALL FIELD WELDING AND HIGH STRENGTH BOLTING SHALL BE UNDER CONTINUOUS SPECIAL INSPECTION.
8. SHOP WELDING MUST BE DONE BY A FABRICATOR APPROVED AND RECOGNIZED BY THE BUILDING OFFICIAL OR WELDING MUST HAVE CONTINUOUS SPECIAL INSPECTION.
9. THE CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.

REINFORCED CONCRETE

- 1. UNLESS NOTED OTHERWISE, THE SPECIFIED CONCRETE STRENGTH SHOWN IN THE FOLLOWING TABLE IS THE MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS. THE AGGREGATE SHOWN IS THE MAXIMUM SIZE. THE SLUMP SHOWN IS THE MAXIMUM IN INCHES (REGULAR WEIGHT - 145 PSF).

Table with 5 columns: CONSTRUCTION, STRENGTH (PSI), AGGREGATE, H2O/CEMENT RATIO, SLUMP. Lists foundation, slab on grade, walls, slabs, beams & col's, and metal deck.

- 2. DRY PACK SHALL BE COMPOSED OF 1 PART PORTLAND CEMENT AND NO MORE THAN 3 PARTS SAND.
3. PORTLAND CEMENT SHALL CONFORM TO A.S.T.M. C 150-96 TYPE II/V. STRUCTURAL CONCRETE AGGREGATE SHALL CONFORM TO A.S.T.M. C 33-93 FOR STANDARD WEIGHT OR C 330-89 FOR LIGHTWEIGHT.
4. UNLESS NOTED OTHERWISE, CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR ALL STRUCTURAL CONCRETE WITH A DESIGN STRENGTH IN EXCESS OF 2,500 PSI.
5. ADMIXTURES MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER. ADMIXTURES USED TO INCREASE THE WORKABILITY OF THE CONCRETE SHALL NOT BE CONSIDERED TO REDUCE THE SPECIFIED MINIMUM CEMENT CONTENT (CALCIUM CHLORIDE SHALL NOT BE USED).
6. NO CONDUIT PLACED IN A CONCRETE SLAB ON GRADE SHALL HAVE AN OUTSIDE DIAMETER GREATER THAN 1/3 THE THICKNESS OF THE SLAB.
7. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF ALL PIPES, CONDUITS, ETC.
8. TIE ALL INSERTS, ANCHOR BOLTS OR OTHER EMBEDDED ELEMENTS SECURELY IN PLACE PRIOR TO PLACEMENT OF CONCRETE.
9. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ALL MOUNTS, GROOVES, REGLETS, ORNAMENTAL CLIPS, PIPES, CONDUITS, INSERTS, ETC. TO BE CAST IN CONCRETE.
10. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED.
11. CONCRETE MIXES SHALL COMPLY WITH THE STRUCTURAL AND ARCHITECTURAL REQUIREMENTS OF THE PLANS. MIXES SHALL BE DESIGNED BY A RECOGNIZED TESTING LABORATORY, AND SHALL BE SIGNED AND STAMPED BY A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.
12. CONCRETE WALKING SURFACES TO BE COVERED WITH A SEALANT/HARDNER PER SPECIFICATION 03300.
13. FOR CONDUIT PLACED IN CONCRETE WALLS AND STRUCTURAL SLABS, SEE DETAILS S-1.5 & S-1.5

REINFORCING STEEL

- 1. REINFORCING STEEL - A.S.T.M. A-615-96a WITH GRADES AS LISTED BELOW:

Table with 3 columns: MATERIAL, SIZE, GRADE. Lists concrete and masonry all sizes.

- 2. ALL WELDED REINFORCING BARS SHALL BE A.S.T.M. A-706. USE LOW HYDROGEN ELECTRODES AS FOLLOWS:

Table with 2 columns: WELDED MEMBERS, ELECTRODE. Lists rebar to rebar and rebar to A36 base metal.

- 3. UNLESS NOTED OTHERWISE, MINIMUM PROTECTIVE COVER AS FOLLOWS:

Table with 2 columns: CONDITION, CLEAR DISTANCE. Lists earth side typ & interior side of wet well and storage tank, all other surfaces, steel in slab on grade.

- 4. BAR SPLICE LAPS SHALL BE AS FOLLOWS:

A. MASONRY REINFORCING 48 BAR DIAMETERS

B. CONCRETE REINFORCING:

Table with 4 columns: LOCATION, Fc (PSI), BAR TYPE, BAR SIZE. Lists foundations, walls & slabs, slab-on-grade, and metal deck.

- NOTES: (1) TOP BARS ARE HORIZ BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW BARS.

- (2) LENGTHS ARE IN INCHES
(3a) BAR SPACING SHALL BE GREATER THAN 1.50 INCHES PLUS ONE BAR DIAMETER
(3b) BAR SPACING SHALL BE GREATER THAN 4 INCHES PLUS ONE BAR DIAMETER
(3c) BAR SPACING SHALL BE GREATER THAN 3 INCHES PLUS ONE BAR DIAMETER

- 5. REINFORCING DETAILING, BENDING AND PLACING SHALL BE IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE'S MANUAL OF STANDARD PRACTICE, LATEST EDITION AND A.C.I. 315.

- 5a. FOR REINFORCING AT INTERSECTIONS OF WALLS, FOOTINGS AND BEAMS SEE DETAIL S-1.4
5b. FOR BAR BENDS AND HOOKS SEE DETAILS S-1.4 & S-1.4
5c. FOR REINFORCING STEEL SET IN EPOXY SEE DETAIL S-1.2

- 6. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS AND INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO AND WHILE PLACING CONCRETE OR GROUT.
7. UNLESS OTHERWISE NOTED OR SHOWN, SPACER TIES SHALL BE #3 TIES AT 72 IN. IN ALL BEAMS AND REINFORCED FOOTINGS.
8. ALL FIELD WELDING SHALL HAVE CONTINUOUS SPECIAL INSPECTION.

MASONRY

- 1. DIMENSIONS FOR INTERIOR AND EXTERIOR MASONRY WALLS AND OPENINGS ARE NOMINAL DIMENSIONS - THEY DO NOT ACCOUNT FOR ADDITION OR SUBTRACTION OF MORTAR BED OR HEAD JOINT THICKNESS.
2. CONCRETE MASONRY SHALL BE A.S.T.M. C-90-95 HOLLOW, LOAD BEARING UNITS, MEDIUM WEIGHT RUNNING BOND GROUTED WALL CONSTRUCTION CONFORMING TO THE REQUIREMENTS OF THE QUALITY CONTROL STANDARDS OF THE U.B.C. 21-4. UNLESS NOTED OTHERWISE, SPECIFIED CONCRETE MASONRY STRENGTH SHALL BE fm = 1,500 PSI.
3. SEE PLANS AND DETAILS FOR TYPICAL SIZE AND SPACING OF VERTICAL REINFORCING. PROVIDE 2-#5 FULL HEIGHT AT THE SIDES OF WALL OPENINGS, CORNER, INTERSECTIONS, CONTROL JOINTS & WALL ENDS. UNLESS DETAILED OTHERWISE, ALL STEEL SHALL BE CENTERED ON THE WALL. REINFORCING SHALL BE DOWELED TO THE SUPPORTING MEMBERS WITH THE SAME SIZE AND SPACING REINFORCING AS THAT CALLED FOR IN THE DRAWINGS OR THE STANDARD NOTES.
4. SEE PLANS AND DETAILS FOR TYPICAL SIZE AND SPACING OF HORIZONTAL REINFORCING. SEE DETAILS FOR REINFORCING AT WALL OPENINGS.
5. SOLID GROUT ALL MASONRY CELLS.
6. TYPE S MORTAR WITH A COMPRESSIVE STRENGTH OF 1,800 PSI AT 28 DAYS SHALL BE USED. PROPORTIONS BY VOLUME SHALL BE 1 PART PORTLAND CEMENT, 1/2 PART MINIMUM TO 3/4 PART MAXIMUM HYDRATED LIME OR LIME PUTTY. USE DAMP, LOOSE AGGREGATE NOT LESS THAN 2.25 AND NOT MORE THAN 3 TIMES THE SUM OF THE VOLUMES OF THE CEMENT AND LIME. MORTAR JOINTS SHALL BE LIGHTLY COMPRESSED.
7. GROUT WITH A COMPRESSIVE STRENGTH OF 2,000 PSI AT 28 DAY SHALL BE USED. PROPORTIONS BY VOLUME SHALL BE 1 PART PORTLAND CEMENT TO WHICH MAY BE ADDED NOT MORE THAN 1/10 PART HYDRATED LIME OR LIME PUTTY AND 2.25 TO 3 PARTS SAND, AND NOT MORE THAN 2 PARTS GRAVEL. AGGREGATE SHALL BE MEASURED IN A DAMP, LOOSE CONDITION.
8. GROUT SHALL BE POURED IN LIFTS OF 4 FT. PRIOR TO GROUTING, THE GROUT SPACE SHALL BE CLEAN SO THAT ALL SPACES TO BE FILLED WITH GROUT DO NOT CONTAIN MORTAR DROPPINGS, MORTAR PROJECTIONS GREATER THAN 1/2 IN OR OTHER FOREIGN MATERIAL. ALL GROUT SHALL BE CONSOLIDATED AT TIME OF POURING BY MECHANICAL VIBRATION AND THEN RECONSOLIDATED BY AGAIN VIBRATING BEFORE PLASTICITY IS LOST.
9. BOLTS SHALL BE ACCURATELY SET WITH TEMPLATES PRIOR TO PLACING GROUT AND HELD IN PLACE TO PREVENT DISLOCATION DURING GROUTING.
10. WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZ CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE GROUT POUR 1 1/2 IN. BELOW THE TOP OF THE UPPERMOST UNIT.

GENERAL REQUIREMENTS

- 1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK AND SHALL NOTIFY THE ARCHITECT/ STRUCTURAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
2. NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS ON THIS SHEET IN CASE OF CONFLICT.
3. ALL WORK SHALL COMPLY WITH ALL APPLICABLE FEDERAL LAWS, STATES STATUTES, LOCAL ORDINANCES AND REGULATIONS OF L. A. C. PUBLIC WORKS (THE LATEST EDITION OF GREEN BOOK & GREY BOOK).
4. WHERE CONSTRUCTION DETAILS ARE NOT SHOWN OR NOTED FOR ANY PART OF THE WORK, SUCH DETAILS SHALL BE THE SAME AS FOR SIMILAR WORK SHOWN ON THE DRAWINGS. WHERE SUFFICIENTLY SIMILAR WORK IS NOT SHOWN, THE ARCHITECT/ENGINEER SHALL BE CONSULTED FOR CLARIFICATION.
5. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO LOCATE AND PROTECT ANY UNDERGROUND OR CONCEALED CONDUIT, PLUMBING OR OTHER UTILITIES WHERE NEW WORK IS BEING PERFORMED, PRIOR TO BEGINNING EXCAVATIONS.
6. PIPES, DUCTS, SLEEVES, CHASES, ETC., SHALL NOT BE PLACED IN SLABS, BEAMS OR WALLS UNLESS SPECIFICALLY SHOWN OR NOTED. STRUCTURAL MEMBERS SHALL NOT BE CUT FOR PIPES, DUCTS, ETC., UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATION OF ANY ADDITIONAL PIPES, DUCTS, ETC.
7. FOR ALL MECHANICAL AND ELECTRICAL EQUIPMENT IN EXCESS OF 250 LBS., THE CONTRACTOR SHALL COORDINATE EXACT WEIGHTS AND LOCATIONS WITH STRUCTURAL SUPPORTS. IN THE EVENT THAT THE EQUIPMENT DEVIATES IN WEIGHT OR LOCATION FROM THOSE INDICATED ON THE STRUCTURAL PLANS, THE ENGINEER MUST BE NOTIFIED AND APPROVAL GIVEN PRIOR TO INSTALLATION.
8. THIS STRUCTURE IS DESIGNED AS A STABLE UNIT AFTER ALL COMPONENTS ARE IN PLACE AND PROPERLY CONNECTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY BRACING, AS REQUIRED, TO INSURE THE VERTICAL AND LATERAL STABILITY OF THE ENTIRE STRUCTURE OR ANY PORTION THEREOF DURING CONSTRUCTION.
9. NEITHER THE OWNER NOR THE ARCHITECT/STRUCTURAL ENGINEER WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND BRACING AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
10. ANY OPTIONS OR SUBSTITUTIONS ARE FOR THE CONTRACTOR'S CONVENIENCE. NO STRUCTURAL CHANGES OR SUBSTITUTIONS SHALL BE MADE IN THE FIELD FROM THE APPROVED CONSTRUCTION DOCUMENTS UNLESS WRITTEN APPROVAL OF SUCH CHANGES OR SUBSTITUTIONS IS OBTAINED FROM THE STRUCTURAL ENGINEER. IF CHANGES ARE MADE WITHOUT WRITTEN APPROVAL, SUCH CHANGES, ALONG WITH ANY ADDITIONAL COSTS, REPAIRS AND COORDINATION WITH OTHER AFFECTED ITEMS SHALL BE THE LEGAL AND FINANCIAL RESPONSIBILITY OF THE CONTRACTOR AND/OR SUBCONTRACTORS INVOLVED.
11. A CIVIL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA SHALL DESIGN AND BE RESPONSIBLE FOR ANY SUPPLEMENTAL FABRICATION DESIGNS OF BUILDING COMPONENTS. IT SHALL BE THE RESPONSIBILITY OF THE COMPONENT FABRICATOR TO COMPLY WITH ALL APPLICABLE REGULATIONS AND TO OBTAIN APPROVAL FROM THE NECESSARY GOVERNING AGENCIES ON SUCH DESIGNS. PRIOR TO CONSTRUCTION AND/OR FABRICATION OF THE ALTERNATE COMPONENTS, THE DESIGN SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER OF RECORD FOR CONFORMANCE WITH THE STRUCTURAL DESIGN AS APPROVED FOR BUILDING PERMIT.

FOUNDATION

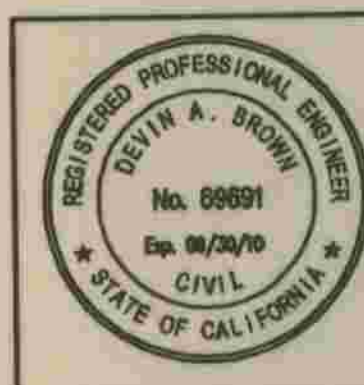
- 1. SOIL TYPE - SEE SOILS REPORT, "GEOTECHNICAL INVESTIGATION" BY RTF&A, AUGUST 20, 2007 (PROJECT NO. 99-809-01).
2. FOUNDATION DESIGN IS BASED ON A SOIL BEARING VALUE OF 3,000 PSF AT 24" BELOW LOWEST ADJACENT SUBGRADE.
3. THE SOILS REPORT IS TO BE CONSIDERED A PART OF THESE PLANS AND SHALL BE COMPLIED WITH BY THE CONTRACTOR.
4. IN THE EVENT THAT THE FOUNDATION EXCAVATIONS ARE CARRIED TO A DEPTH GREATER THAN THAT REQUIRED, THE ADDITIONAL DEPTH SHALL BE FILLED WITH THE SAME CONCRETE AS THAT USED FOR THAT FOOTING, OR STRUCTURAL BACKFILL PER SPEC SECT 2201.3.4A, AT NO ADDITIONAL EXPENSE TO THE OWNER. NO UNCONTROLLED FILL WILL BE PERMITTED.
5. THE FOOTING EXCAVATIONS SHALL BE KEPT FREE FROM LOOSE MATERIAL AND STANDING WATER.
6. UNLESS NOTED OTHERWISE BY THE SOILS REPORT, ALL REQUIRED BACKFILL SHALL BE COMPACTED TO AT LEAST 90% OF THE MAXIMUM DENSITY OBTAINABLE BY THE A.S.T.M. DESIGNATION D-1557 (LATEST EDITION) METHOD OF COMPACTION.
7. A COMPACTION REPORT MUST BE SUBMITTED TO AND APPROVED BY THE GOVERNING JURISDICTION PRIOR TO PLACEMENT OF ANY CONCRETE ON FILL.
8. UNLESS NOTED OTHERWISE BY THE SOILS REPORT, ALL UTILITY TRENCHES SHALL BE COMPACTED TO A MINIMUM OF 90% RELATIVE DENSITY.
9. FINISH GRADES SHALL BE SLOPED TO DRAIN SURFACE WATER AWAY FROM BUILDINGS.
10. THE SOILS ENGINEER OF RECORD SHALL INSPECT AND APPROVE THE FOUNDATION EXCAVATIONS BEFORE STEEL OR CONCRETE IS PLACED.
11. FOR PIPING UNDER CONTINUOUS FOOTINGS SEE DETAIL S-1.4

REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY)
PARCEL MAP NO. 26363

GENERAL STRUCTURAL NOTES

S-1.1 SHEET 12 OF 61 SHEETS



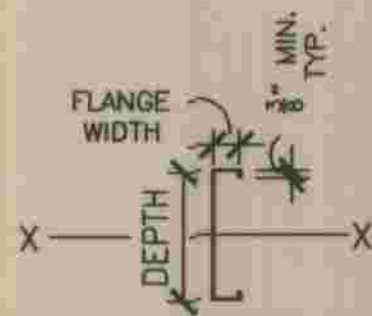
PLANS PREPARED BY R2H ENGINEERING, INC. CONSULTING STRUCTURAL ENGINEERS
17150 VAN DEL CAMPO, SUITE 308 SAN DIEGO, CA 92127
PHONE (658) 873-8418 FAX (658) 873-8418
Devin A. Brown 5/28/09
DEVIN A. BROWN DATE

DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY
CHECKED Peter Chang 7-2-2009
DESIGN DIVISION DATE

Table with columns: DATE, DRAWN BY, CHECK BY, REVISION, APPR'D BY, SHEETS.

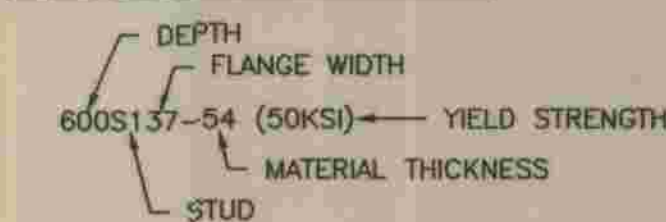
STEEL STUDS & JOISTS FOR INTERIOR WALLS:

- ALL STUDS SHALL BE A-446 GRADE A WITH 33 KSI, OR A-446 GRADE D WITH 50 KSI YIELD STRESS AS SPECIFIED IN METAL STUD SCHEDULE.
- STUDS SHALL BE 'C' SHAPE SPACED AS INDICATED ON THE DRAWINGS. THEIR DEPTHS AND GAGE SHALL BE AS SHOWN ON DRAWINGS. TRACKS SHALL MATCH STUD GAGE WITH MINIMUM FLANGE WIDTH OF 1 1/2". CONNECT STUDS TO TRACKS WITH #8 GAGE SCREWS EACH FLANGE. BEAR FULL WEB SECTION WITHOUT PUNCH OUT AGAINST TRACK.
- BRIDGING/BLOCKING SHALL BE IN ACCORDANCE WITH 8/SD3 SPACE BRIDGING AT 5 FT. MAXIMUM O.C. VERTICALLY.
- BLOCKING SHALL BE ATTACHED TO STUDS WITH 16 GAGE CUP ANGLES. ADD STUDS AT ALL JAMBS TO REPLACE STUDS CUT BY OPENING.
- ALL CONNECTIONS NOT SHOWN SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
- ANCHOR TRACK TO CONCRETE WITH 0.145" x 1 1/2" PENETRATION STANDARD VELOCITY POWDER DRIVEN OR PNEUMATIC DRIVEN INSERTS, LOCATED 3" MINIMUM FROM ANY CONCRETE EDGE, AT 16" MAXIMUM O.C. IN LIEU OF INSERTS, 3/8" HEADED BOLTS WITH 4" MINIMUM EMBEDMENT BELOW CURB, AT 32" MAXIMUM O.C. MAY BE USED. LOCATE 1 BOLT WITHIN 8" OF EA WALL END. ALL INSERTS SHALL HAVE I.C.B.O. REPORT #2388 APPROVAL. INSTALL A MINIMUM OF TWO (2) BOLTS OR INSERTS PER ANY TRACK SECTION.
- CODES AND FABRICATION: 2001 CALIFORNIA BUILDING CODE, CHAPTER 22, DIVISION VII. METAL STUD MANUFACTURER'S ASSOCIATION, I.C.B.O. REPORT #4943 OR APPROVED EQUAL.
- WELDING: A.W.S. D1.3, TYPE E-6012, E-6013 OR E-7014 ROD; S.M.A.W. PROCESS.

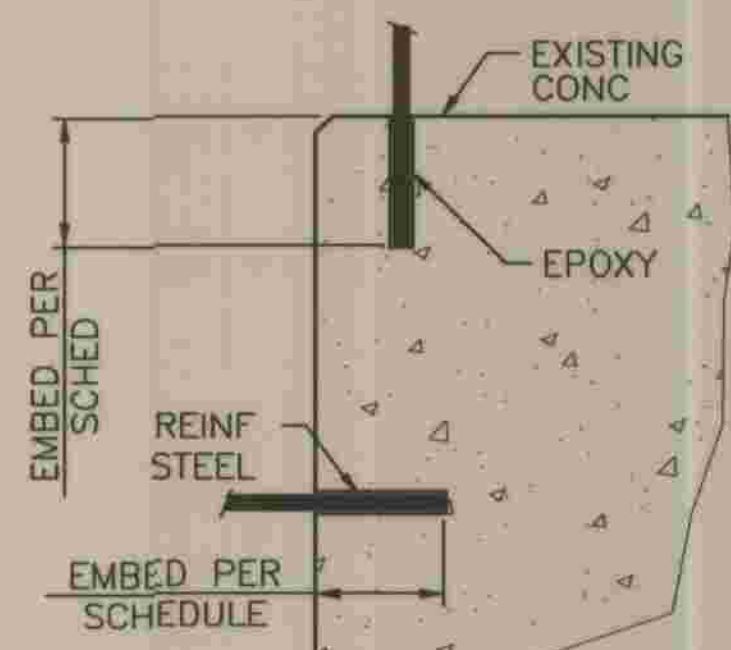


METAL STUD & JOIST SCHEDULE						
STUD OR JOIST DESIGNATION	TYPE	GA	MIN. THICKNESS (IN)	EFFECTIVE PROPERTIES		
				AREA (IN. ²)	S _x (IN. ⁴)	I _{xx} (IN. ⁴)
600S137-43 (50 ksi)	STUD	18	0.0451	0.413	0.670	2.042

METAL STUD & JOIST DESIGNATION



BAR SIZE	EMBED
3	4"
4	4 1/2"
5	5"
6	6 3/4"
7	7 3/4"
8	9"



NOTES:

- REINF STEEL SHALL BE A.S.T.M. A-615-96A GRADE 60 U.N.O.
- REINF STEEL SHALL BE PLACED CLEAN & FREE OF OIL, DIRT, RUST OR ANY OTHER DELETERIOUS MATERIALS.
- EPOXY REINF STEEL WITH HILTI "HIT-RE 500-SD" EPOXY PER I.C.C. #ESR-2322 OR APPROVED EQUAL MIN EDGE & END DISTANCES AS SPECIFIED BY MANUFACTURER, U.N.O.
- ROUGHEN AND CLEAN HOLE PRIOR TO PLACING EPOXY.
- NO CUTTING OF EXISTING REINFORCEMENT SHALL BE ALLOWED IN THE INSTALLATION OF EPOXY ANCHORS UNLESS APPROVED BY THE ENGINEER OF RECORD.
- SPECIAL INSPECTION OF REINF STEEL INSTALLATION IS REQUIRED.

REINF STEEL SET IN EPOXY

1" = 1'-0" 03/24/04 PSDE016 S-1.2

SPECIAL INSPECTIONS

- PROVIDE SPECIAL INSPECTIONS IN ACCORDANCE WITH THE BELOW NOTED SECTION OF THE 2001 CALIFORNIA BUILDING CODE FOR THE ITEMS SHOWN BELOW.
- WHERE SPECIAL INSPECTION IS REQUIRED, IT SHALL BE PERFORMED BY A REGISTERED DEPUTY INSPECTOR EMPLOYED BY THE OWNER & APPROVED BY THE GOVERNING JURISDICTION AND THE STRUCTURAL ENGINEER. THE SPECIAL INSPECTOR SHALL DEMONSTRATE COMPETENCE FOR THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION TO THE BUILDING OFFICIAL & STRUCTURAL ENGINEER. COPIES OF THE INSPECTION REPORTS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND ARCHITECT/ENGINEER FOR REVIEW. EACH REPORT SHALL BE SIGNED BY A LICENSED ENGINEER OR ARCHITECT. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY TEST WHICH INDICATES NONCOMPLIANCE WITH APPLICABLE CODES OR REQUIREMENTS OF THESE PLANS.
- DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR - THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ENGINEER OR ARCHITECT OF RECORD, AND OTHER DESIGNATED PERSONS. EACH REPORT SHALL BE SIGNED BY A LICENSED ENGINEER OR ARCHITECT. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND TO THE BUILDING OFFICIAL. THE STRUCTURAL ENGINEER OF RECORD SHALL BE NOTIFIED IMMEDIATELY OF ANY TEST WHICH INDICATES NONCOMPLIANCE WITH APPLICABLE CODES OR REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THIS CODE.
- A CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION MUST BE COMPLETED AND SUBMITTED TO THE GOVERNING JURISDICTION.
- AN APPLICATION FOR OFF-SITE FABRICATION MUST BE SUBMITTED TO THE GOVERNING JURISDICTION FOR APPROVAL PRIOR TO FABRICATION.
- A CERTIFICATE OF COMPLIANCE FOR OFF-SITE FABRICATION MUST BE COMPLETED AND SUBMITTED TO THE GOVERNING JURISDICTION FOR APPROVAL PRIOR TO ERECTION OF PREFABRICATED COMPONENTS.
- ITEMS REQUIRING SPECIAL INSPECTION:

INSPECTION	C.B.C. SECTION
* CONCRETE PLACEMENT	1701.5.1
* CONCRETE STRENGTH	1701.5.1
* REINFORCING STEEL PLACEMENT IN CONCRETE	1701.5.4.2
* BOLTS IN CONCRETE	1701.5.2
* EMBEDMENTS IN CONCRETE	1701.5.2
FIELD WELDING	1701.5.5
HIGH STRENGTH BOLTING	1701.5.6
DRILLED ANCHORS	SEE I.C.B.O. REPORT
EPOXY ANCHORS	SEE I.C.B.O. REPORT
STRUCTURAL MASONRY	1701.5.7
REINFORCING STEEL PLACEMENT IN MASONRY	1701.5.7
BOLTS IN MASONRY	1701.5.2 SIM
EMBEDMENTS IN MASONRY	1701.5.2 SIM

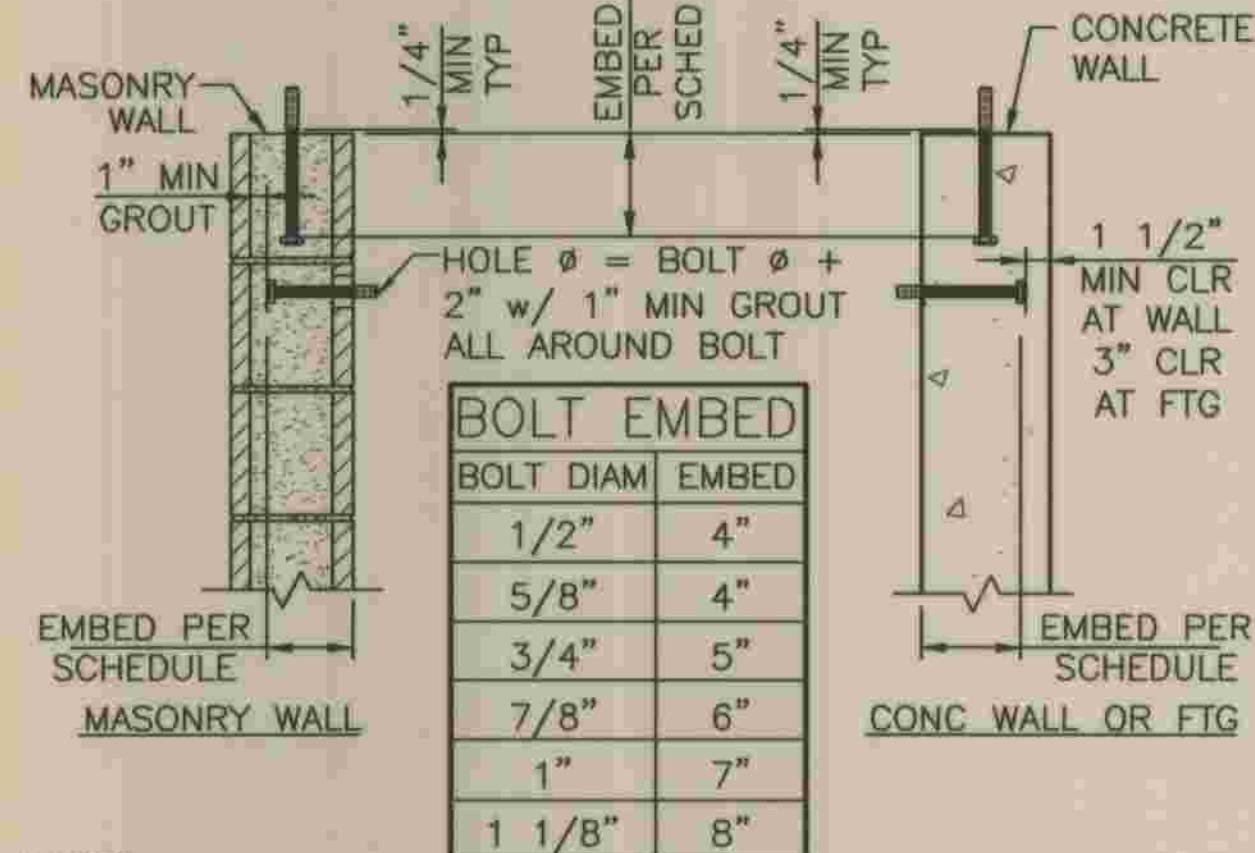
(* FOR ALL CONCRETE WITH A 28 DAY STRENGTH GREATER THAN f'c = 2,500 psi

Summary of Special Inspection		
1	Concrete	13A
2	Bolts installed in concrete	
4	Reinforcing steel	
5B	All structural welding including reinforcing steel	13B
7	Structural masonry	13C
		14
No.	Description of Type of Inspection Required, Location, Remarks	Design Strength
1.	Concrete as identified on sheets S-1.2, S-1.3, S-1.4, S-1.5, S-2.1 S-3.1, S-3.2A,B,C,D, S-3.3, S-3.4, S-4.1, S-4.2, and S-4.3	As noted for conc greater than 2,500 psi
2.	Placement of bolts & embeds in concrete identified above.	
4.	Placement of Reinforcement in concrete identified above.	
5B.	All structural field welding or shop welding, as identified on sheets A-4.3, S-3.6 and S-4.1 - S-4.3. done at any location other than an approved shop. Welding reinforcing steel to reinforcing steel: Low hydrogen electrode E80XX; Reinforcing steel to A36 base metal: Low hydrogen electrode E70XX.	
7.	Structural masonry as identified on sheets S-1.2, S-1.3, S-1.5, S-2.1, S-2.2, S-4.1 S-4.2 and S-4.3.	f'm=1500 psi
13A.	Soil engineer to verify conditions are in conformance with soils report.	
13B.	Soils engineer to verify that foundation excavations extend to proper depth and bearing strata.	
13C.	Soils engineer to provide compaction reports, depth of fill, relative density and bearing value to building official.	
14A.	Drilled and/or epoxy adhesive anchors as identified on sheets S-1.2 and S-1.5.	I.C.C. ESR-1772

- The construction inspections listed are in addition to the called inspections required by Section 108 of the California Building Code. Special inspection is not a substitute for inspection by a city inspector. Specially inspected work which is installed or covered without the approval of the City Inspector is subject to removal or exposure.
- Continuous inspection is always required during the performance of the work requiring special inspection unless otherwise specified.
- The special inspectors must be certified by the governing jurisdiction to perform the types of inspection specified.
- It is the responsibility of the contractor to inform the special inspector or inspection agency at least one working day prior to performing any work that requires special inspection. All work performed without required special inspection is subject to removal.

ABBREVIATIONS

ARCHL	ARCHITECTURAL	I.F.O.	INTERIOR FACE OF
A.B.	ANCHOR BOLT	INT	INTERIOR
A.F.F.	ABOVE FINISHED FLOOR	JST	JOIST
BD	BOARD	JNT	JOINT
BLDG	BUILDING	K	KIPS (1,000 LB.)
BLK	BLOCK	KG	LONG
BLKG	BLOCKING	LL	LINE LOAD
BM	BEAM	LL.H.	LONG LEG HORIZONTAL
B.N.	BOUNDARY NAIL	LL.V.	LONG LEG VERTICAL
BOT	BOTTOM	LT. WT.	LIGHT WEIGHT
BRG	BEARING	MAX	MAXIMUM
BTWN	BETWEEN	M.B.	MACHINE BOLT
C.B.	CARRIAGE BOLT	MECHL	MECHANICAL
C.I.P.	CAST-IN-PLACE	MIN	MINIMUM
CL	CENTER LINE	N.S.	NEAR SIDE
C.J.	CONSTRUCTION JOINT	NOM	NOMINAL
CLG	CEILING	N.T.S.	NOT TO SCALE
CLR	CLEAR(ANCE)	O.C.	ON CENTER
C.M.U.	CONCRETE MASONRY UNIT	O.H.	OPPOSITE HAND
COL	COLUMN	OPNG	OPENING
CONC	CONCRETE	P.C.	PRECAST
CONN	CONNECTION	PL	PLATE
CONT	CONTINUOUS	PLY	PLYWOOD
CNTR	CENTER(ED)	PNL	PANEL
CNTRSINK	COUNTERSINK	PLF	POUNDS PER LINEAL FOOT
J	JAMB	PSF	POUNDS PER SQUARE FOOT
DBL	DOUBLE	PSI	POUNDS PER SQUARE INCH
DFL	DOUGLAS FIR/LARCH	P.T.	PRESSURE TREATED
DIAG	DIAGONAL	R.D.	ROOF DRAIN
Ø	DIAMETER	REF	REFERENCE
D.L.	DEAD LOAD	RENF	REINFORCED/REINFORCING
DN	DOWN	REQD	REQUIRED
DN	DOWN	RF	ROOF
DITTO	DITTO	RFR	RAFTER
DWG	DRAWING	R.S.	ROUGH SAWN
DWL	DOWEL	SCHED	SCHEDULE
EA	EACH	SECT	SECTION
E.F.	EACH FACE	SHT	SHEET
ELEV	EXTERIOR FACE OF	SHTG	SHEATHING
ELEV	ELEVATION	SIM	SIMILAR
ELECT	ELECTRICAL	S.M.S.	SHEET METAL SCREW
E.N.	EDGE NAIL	SQ	SQUARE
EQ	EQUAL	S.S.	SELECT STRUCTURAL
EQUIP	EQUIPMENT	S.S.	STAINLESS STEEL
E.S.	EACH SIDE	STAGG	STAGGERED
E.W.	EACH WAY	STD	STANDARD
EXIST(E)	EXISTING	STIFF	STIFFENER
EXP	EXPANSION	STL	STEEL
EXT	EXTERIOR	STRUCT	STRUCTURAL
FDN	FOUNDATION	SYM	SYMMETRICAL
F.F.	FINISH FLOOR	T&B	TOP AND BOTTOM
FLR	FLOOR	T&G	TONGUE AND GROOVE
F.N.	FIELD NAIL	THK	THICK
F.O.	FACE OF	THKND	THICKENED
FRMG	FRAMING	THRD	THREADED
F.S.	FAR SIDE	THRU	THROUGH
FT	FEET(FOOT)	T.O.	TOP OF
FTG	FOOTING	TYP	TYPICAL
GA	GAUGE	U.N.O.	UNLESS NOTED OTHERWISE
GALV	GALVANIZED	VERT(V)	VERTICAL
G.I.	GALVANIZED IRON	W/	WITH
GLB	GLU-LAMINATED BEAM	W/O	WITHOUT
GRD	GRADE	WD	WOOD
GYP	GYPNUM	WP	WATERPROOF
HD	HOLDOWN	W.P.	WORK POINT
HDR	HEADER	WT	WEIGHT
HCR	HANGER	W.W.F.	WELDED WIRE FABRIC
HORIZ(H)	HORIZONTAL		
H.S.B.	HIGH STRENGTH BOLT		
HSS	HOLLOW STRUCTURAL SECTION		

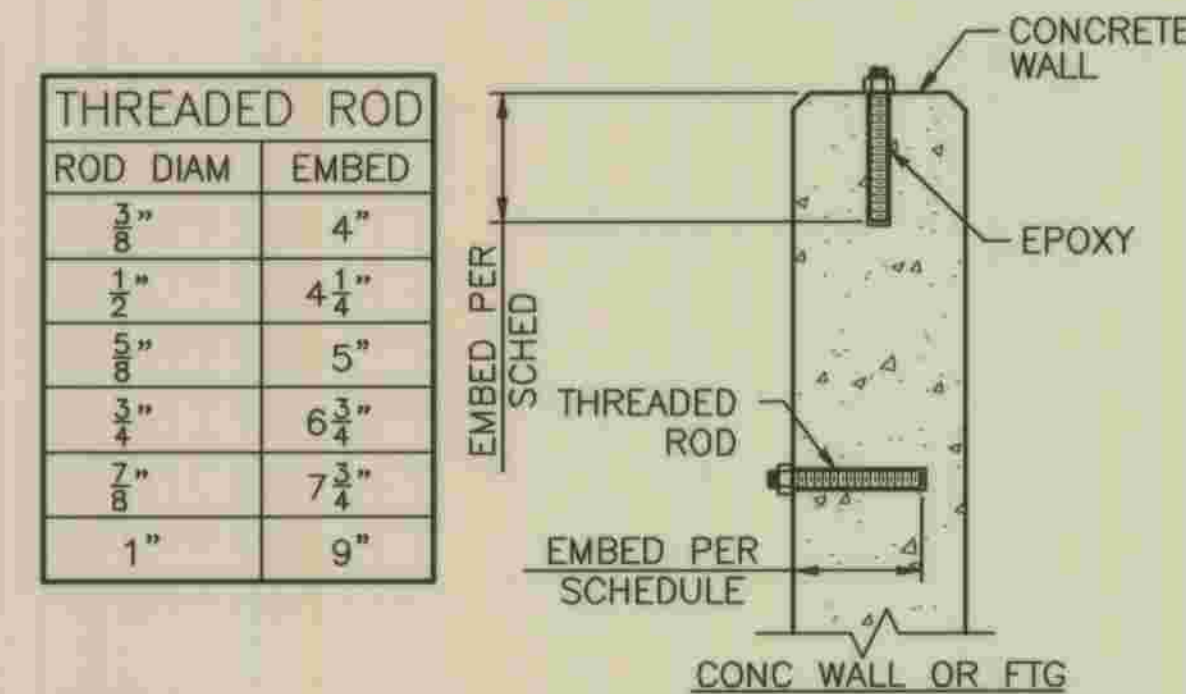


NOTES:

- FOUNDATION SILL R A.B.'S SHALL HAVE A MIN 7" EMBED.
- ANCHOR BOLTS LOCATED IN THE TOPS OF COL'S SHALL HAVE A MIN OF 2" EMBEDMENT IN ADDITION TO THAT NOTED IN THE ABOVE SCHEDULE.
- ALL ANCHOR BOLTS SHALL BE SECURELY TIED IN PLACE PRIOR TO AND WHILE PLACING CONCRETE OR GROUT.
- A.B.'S SHALL BE A HEADED MACHINE BOLTS.
- A.S.T.M. A307 QUALITY SHALL BE THE MINIMUM REQD BOLT GRADE.
- BOLTS SHALL BE PLACED CLEAN & FREE OF OIL, DIRT, RUST, OR ANY OTHER OTHER DELETERIOUS MATERIALS.

EMBEDDED BOLTS

1" = 1'-0" 05/08/01 PSDE013 S-1.2

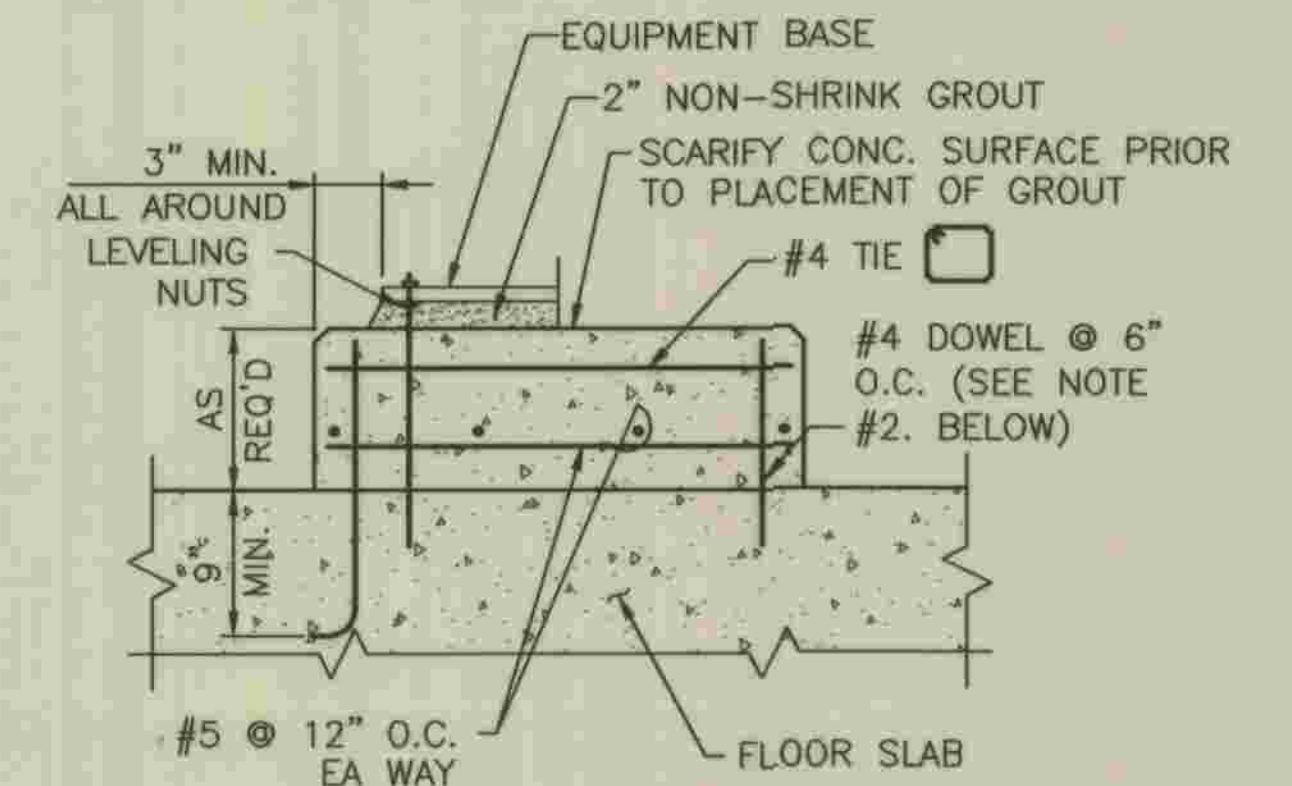


NOTES:

- THREADED RODS SHALL BE A.S.T.M. A307 (SAE 1018) U.N.O.
- THREADED RODS SHALL BE PLACED CLEAN & FREE OF OIL, DIRT, RUST OR ANY OTHER DELETERIOUS MATERIALS.
- EPOXY THREADED RODS WITH HILTI "HIT-RE 500-SD" EPOXY PER I.C.C. #ESR-2322 OR APPROVED EQUAL MIN EDGE & END DISTANCES AS SPECIFIED BY MANUFACTURER, U.N.O.
- ROUGHEN AND CLEAN HOLE PRIOR TO PLACING EPOXY.
- NO CUTTING OF EXISTING REINFORCEMENT SHALL BE ALLOWED IN THE INSTALLATION OF EPOXY ANCHORS UNLESS APPROVED BY THE ENGINEER OF RECORD.
- SPECIAL INSPECTION OF THREADED ROD INSTALLATION IS REQUIRED.

EPOXY ADHESIVE ANCHORS

1" = 1'-0" 03/24/04 PSDE015 S-1.2



NOTES:

- EQUIP. PAD DETAIL APPLIES TO EQUIPMENT FURNISHED AND SUPPLIED FOR THIS CONTRACT AND SHALL COMPLY WITH THE DETAIL AND EQUIPMENT MANUFACTURERS RECOMMENDATION AND REQUIREMENTS.
- IF EQUIP. PAD IS CONSTRUCTED IN CONJUNCTION WITH THE FLOOR SLAB, USE HOOKED DOWELS AND PLACE THE BOLTS PER MANUFACTURERS RECOMMENDATIONS IF EQUIP. PAD IS PLACED AFTER FLOOR SLAB IS COMPLETE, BOLTS AND STRAIGHT DOWELS SHALL BE ANCHORED TO THE SLAB WITH EPOXY GROUT.
- ANCHOR BOLTS SHALL BE STAINLESS STEEL MATERIAL WITH THE TOP AND BOTTOM 4" THREADED AND SHALL CONFORM WITH THE MANUFACTURERS REQUIREMENTS.
- USE LEVELING NUTS TO LEVEL EQUIPMENT BASE. DO NOT USE SHIMS.

EQUIPMENT PAD DETAIL

N.T.S. S-1.2

REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.



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 PHONE (858) 673-8416
 FAX (858) 673-8418
 5/28/09
 DEVIN A. BROWN DATE

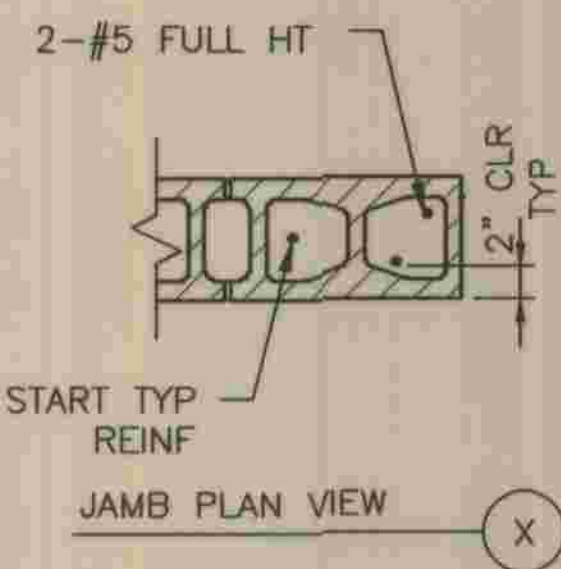
DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY
 CHECKED *Peter Chang* 7-28-2009
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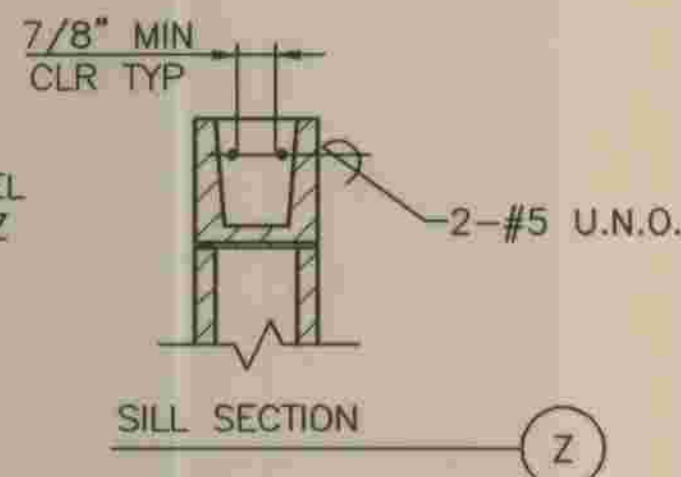
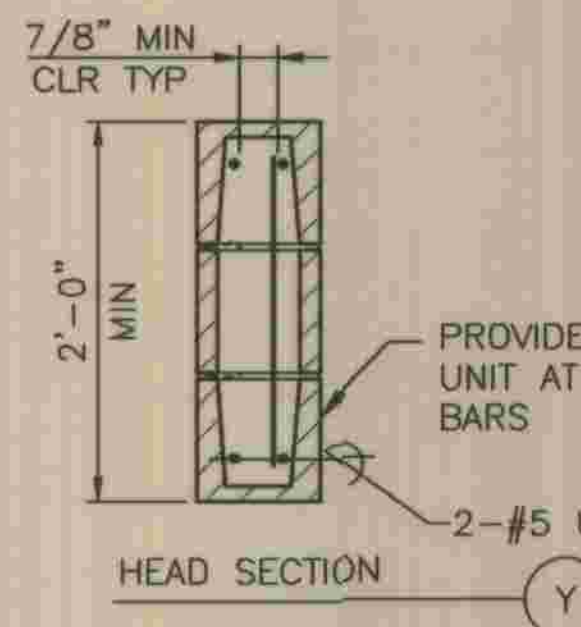
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS		SPEC. NO.	SHEET
HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY)			13
PARCEL MAP NO. 26363		OF	61
GENERAL NOTES & TYPICAL DETAILS		DRAWING NO.	SHEETS

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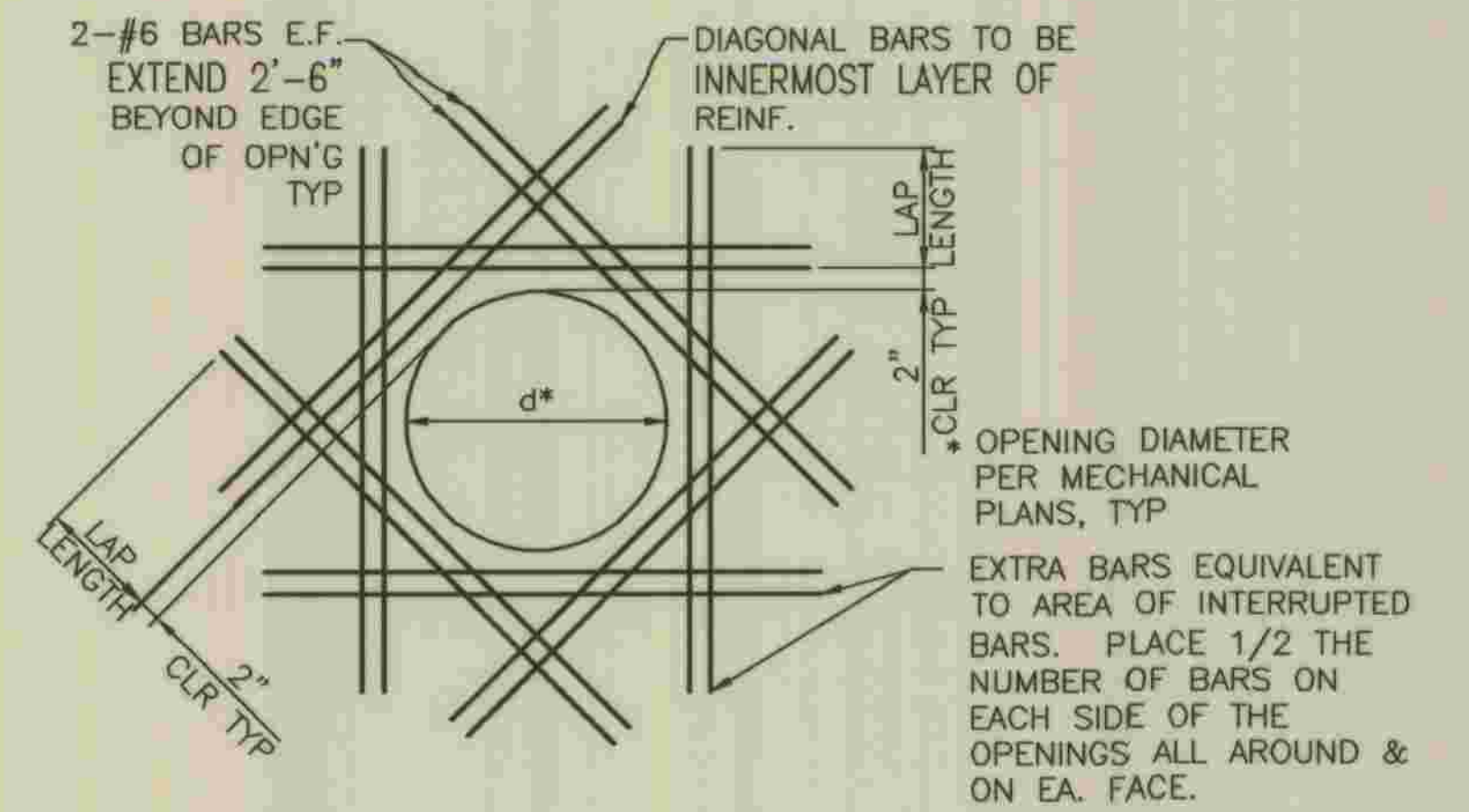
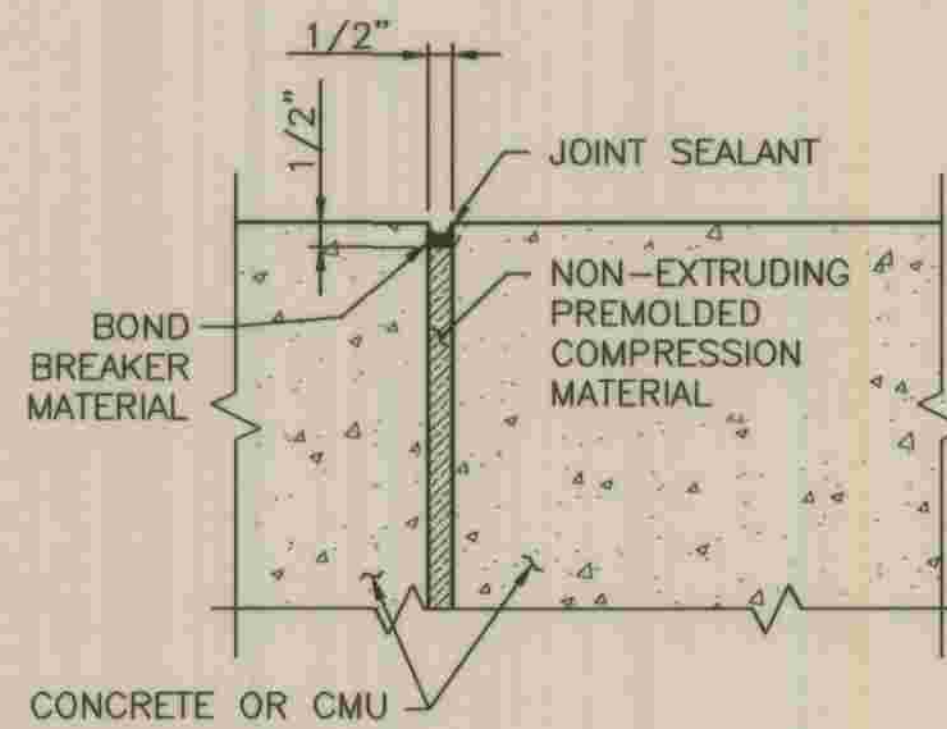
29-3411 3 9 2363



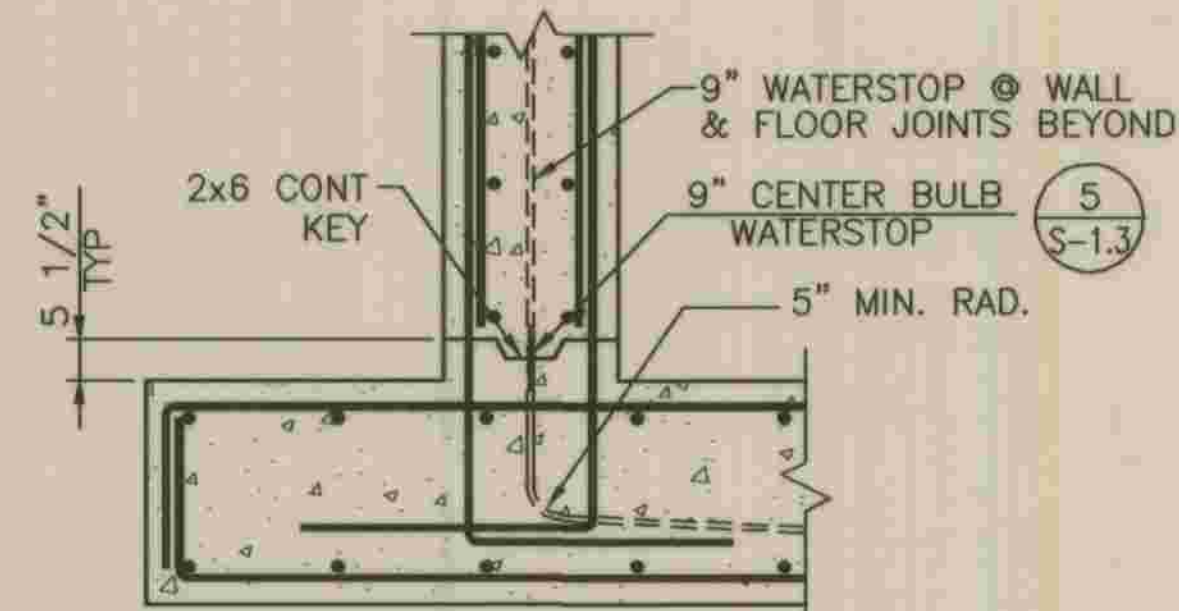
- NOTES:**
- WHERE 50 Ø CANNOT BE OBTAINED, EXTEND BARS AS FAR AS POSSIBLE & PROVIDE STD 90° HOOKS.
 - HEAD STEEL SHALL BE PLACED INSIDE OF VERTICAL JAMB STEEL. ALL JAMB STEEL AND END STEEL SHALL BE FULL WALL HEIGHT.



EXPANSION JOINT
3" = 1'-0" (2) S-1.3

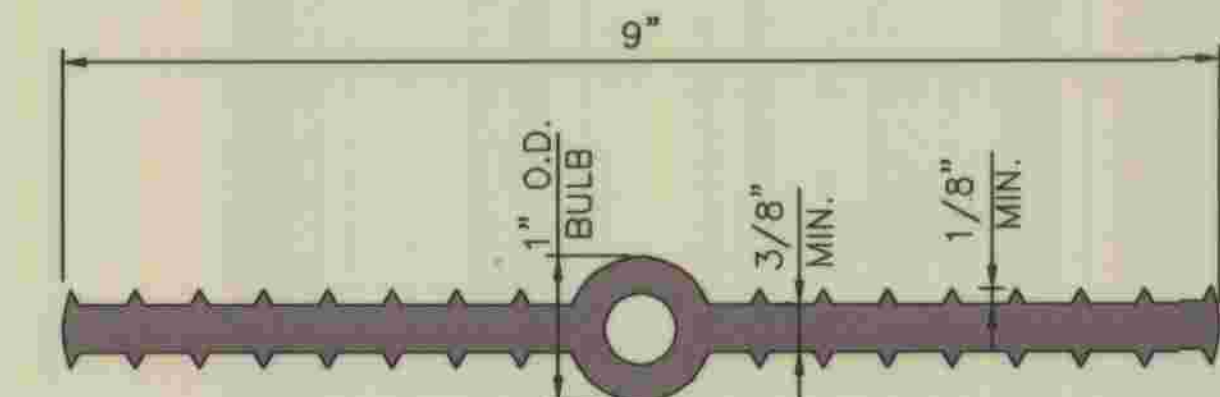


TYP REINF. AT CIRCULAR OPN'GS
3/4" = 1'-0" (3) S-1.3



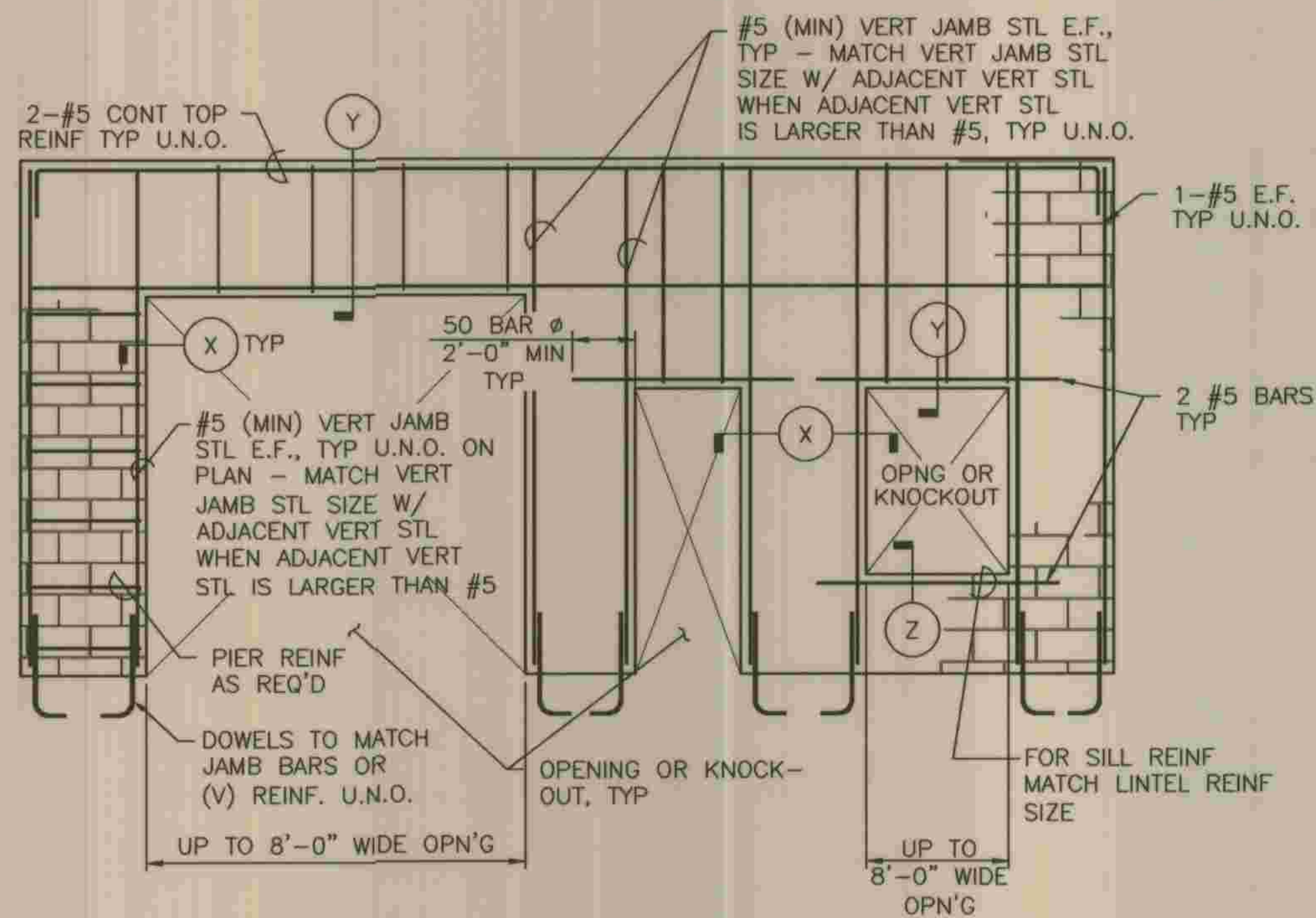
NOTE: CONTINUE ALL REINFORCEMENT BARS THRU JOINTS.

WATERSTOP AT KEYED WALL JOINTS
N.T.S. (4) S-1.3

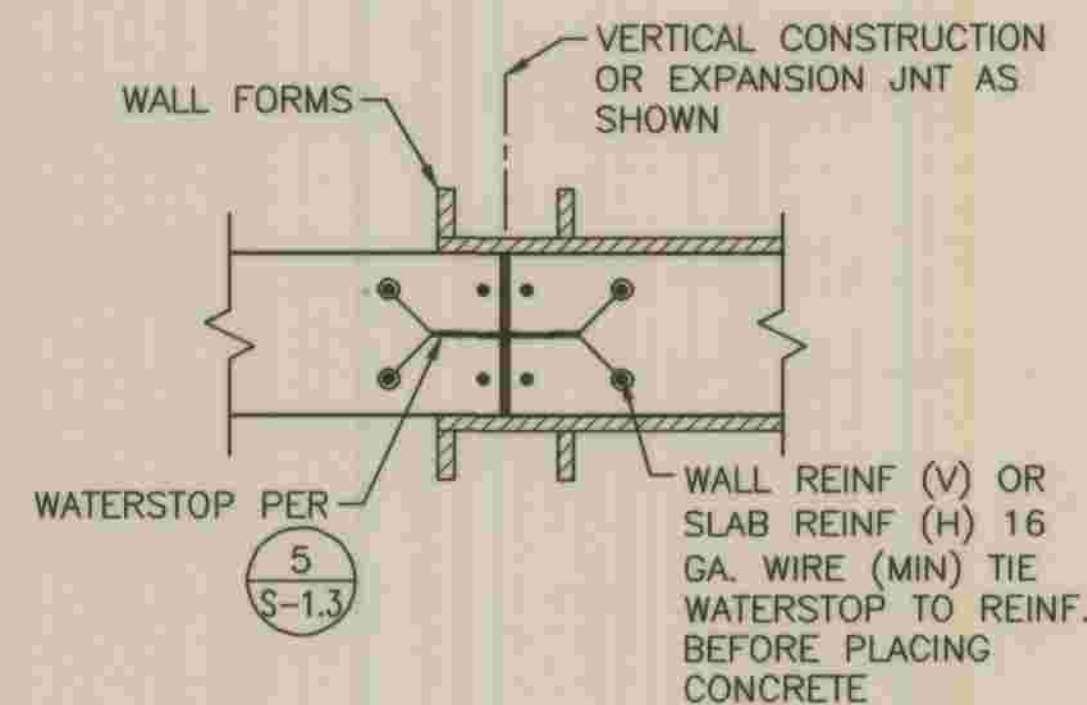


PVC WATERSTOP TYPE #735 BY 'GREENSTREAK, INC.' OR APPROVED EQUAL

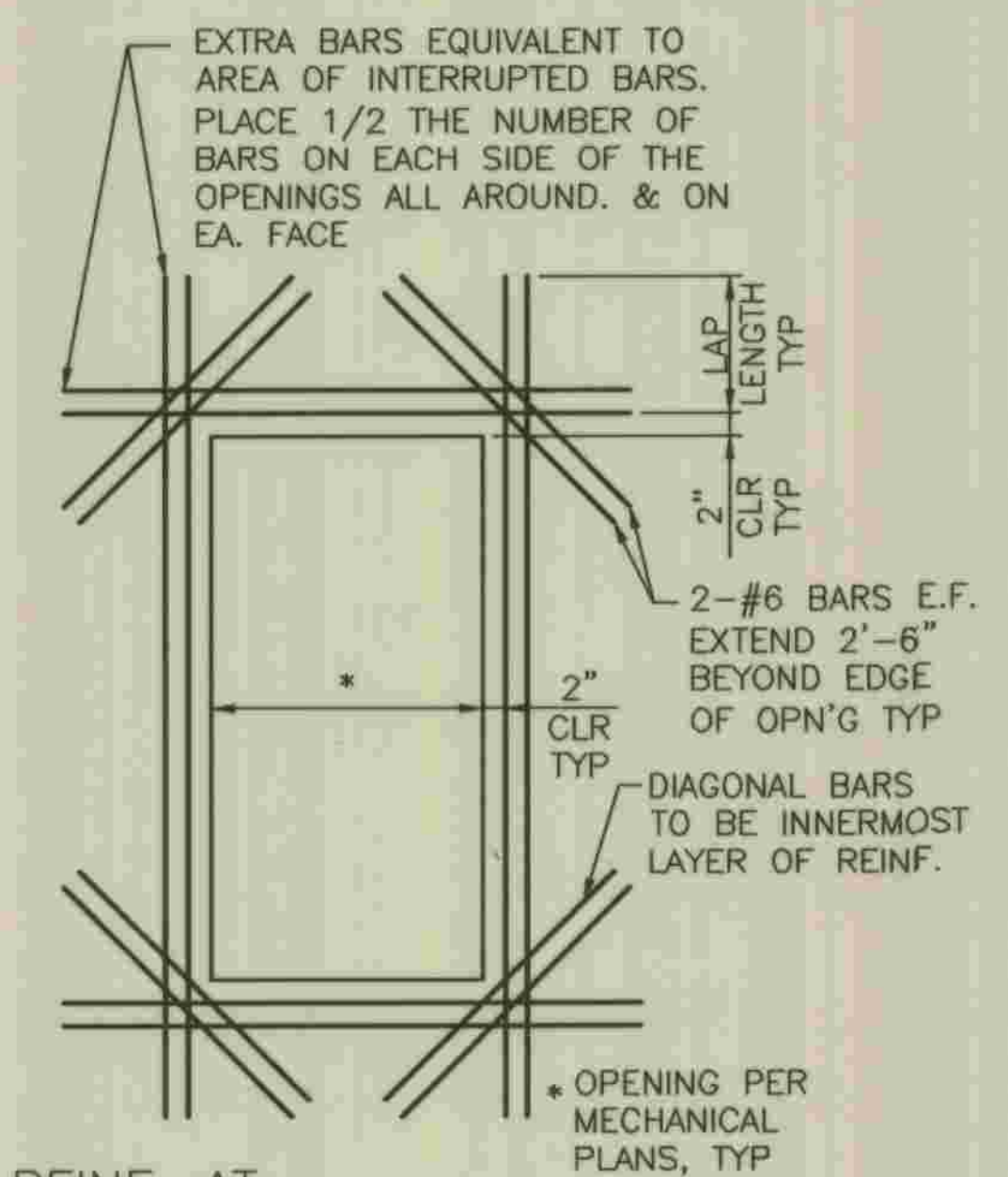
9" PVC - CENTER BULB WATERSTOP
N.T.S. (5) S-1.3



TYPICAL MASONRY WALL REINF
N.T.S. (1) S-1.3



TYP PVC WATERSTOP INSTALLATION
1" = 1'-0" (6) S-1.3



TYP REINF. AT RECTANGULAR OPN'GS
3/4" = 1'-0" (7) S-1.3

REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.



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FAX (858) 673-8418

DEVIN A. BROWN DATE 5/28/09

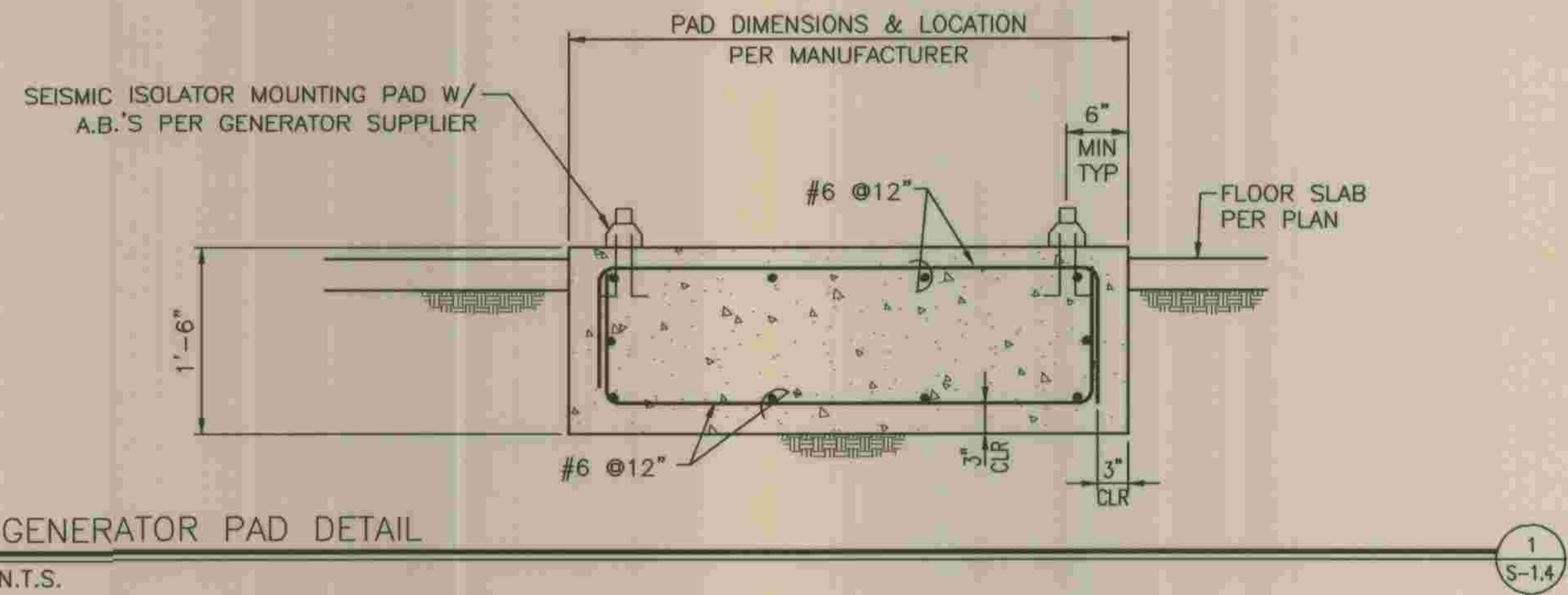
DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY

CHECKED Peter Chang 7-28-2009
DESIGN DIVISION DATE

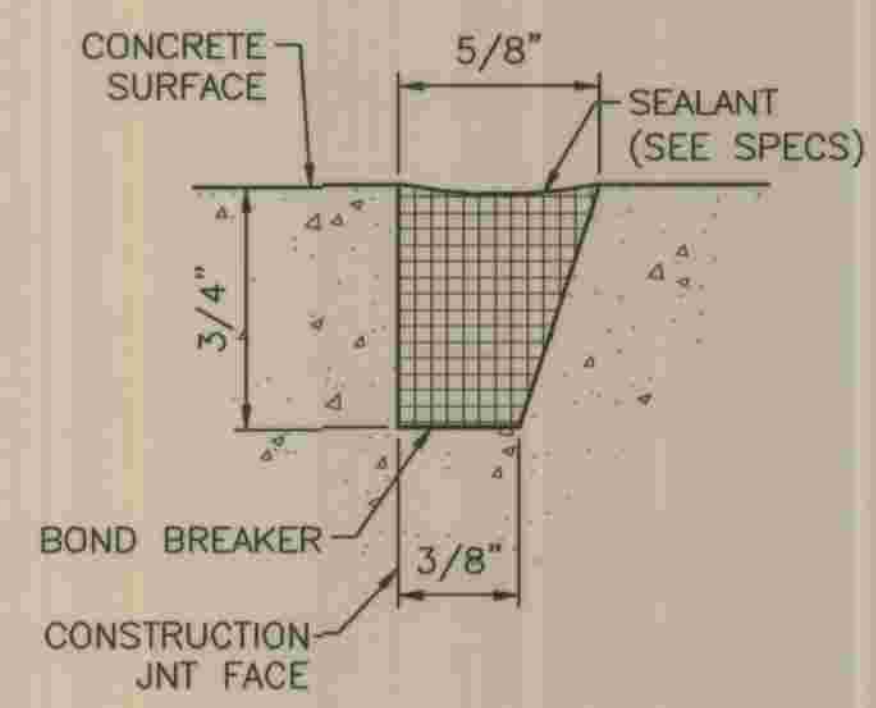
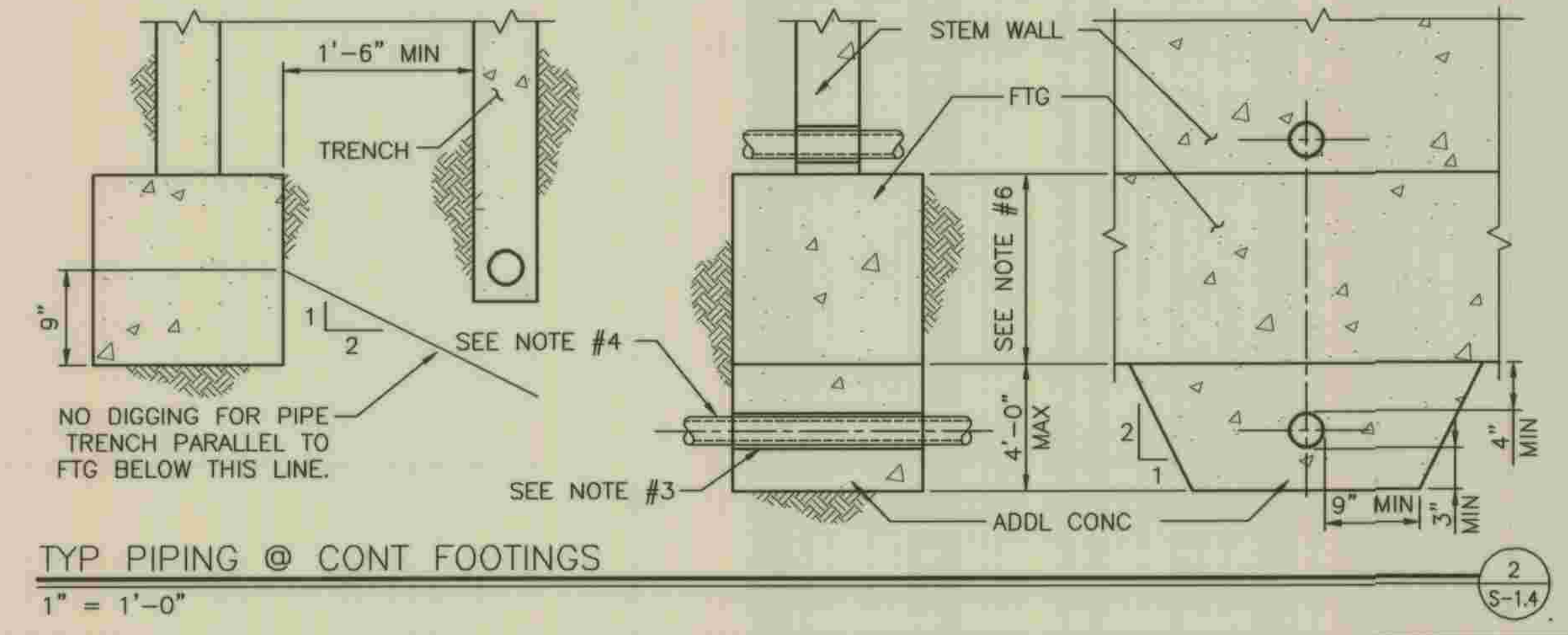
NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY

LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS
**HANCOCK PARKWAY
SEWAGE LIFT STATION (TEMPORARY)**
PARCEL MAP NO. 26363
GENERAL STRUCTURAL DETAILS

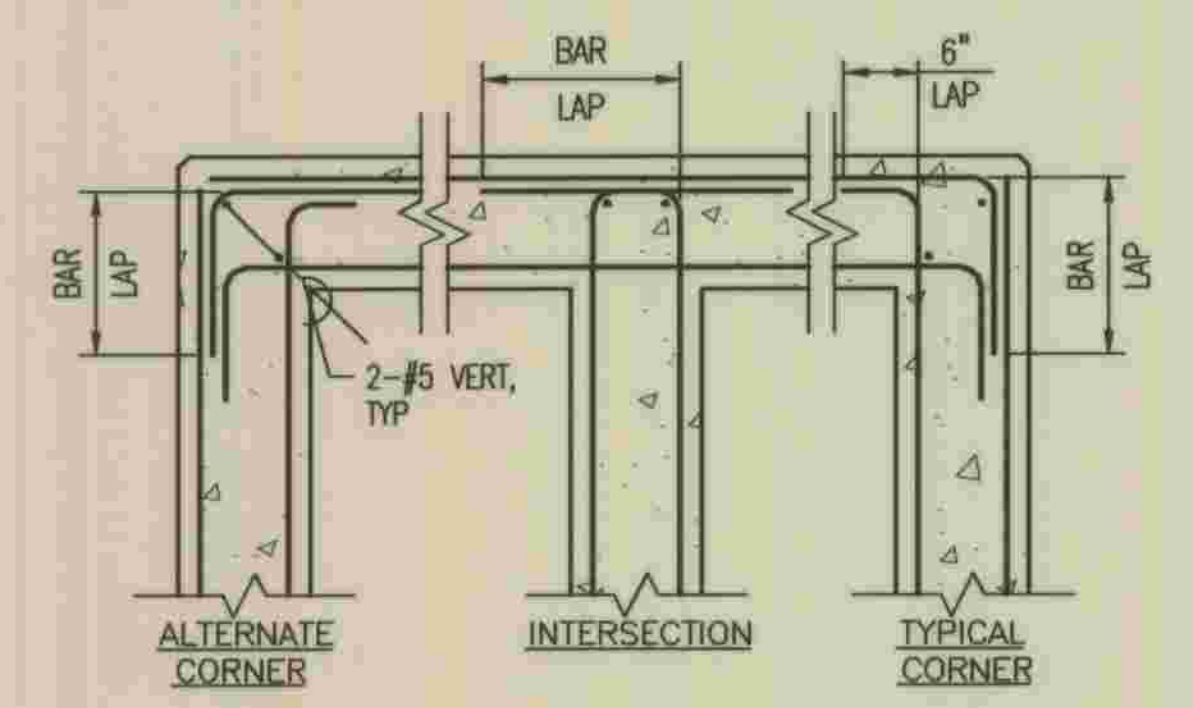
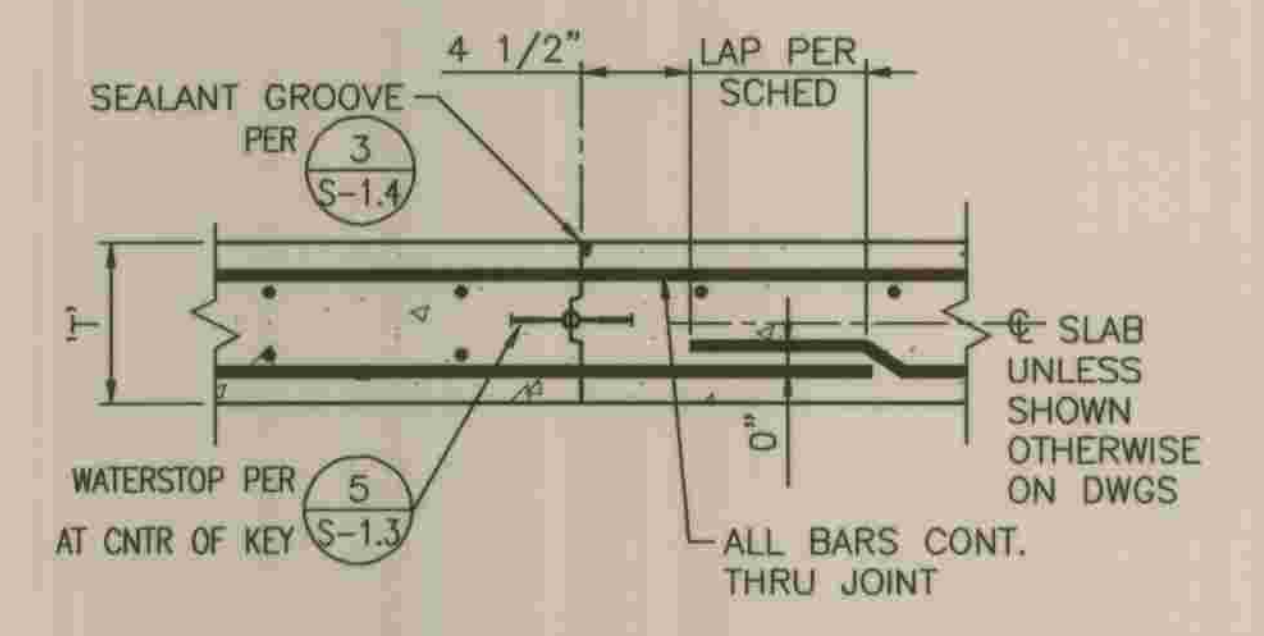
SPEC. NO.	S-1.3
SHEET	14
OF	61
DRAWING NO.	SHEETS



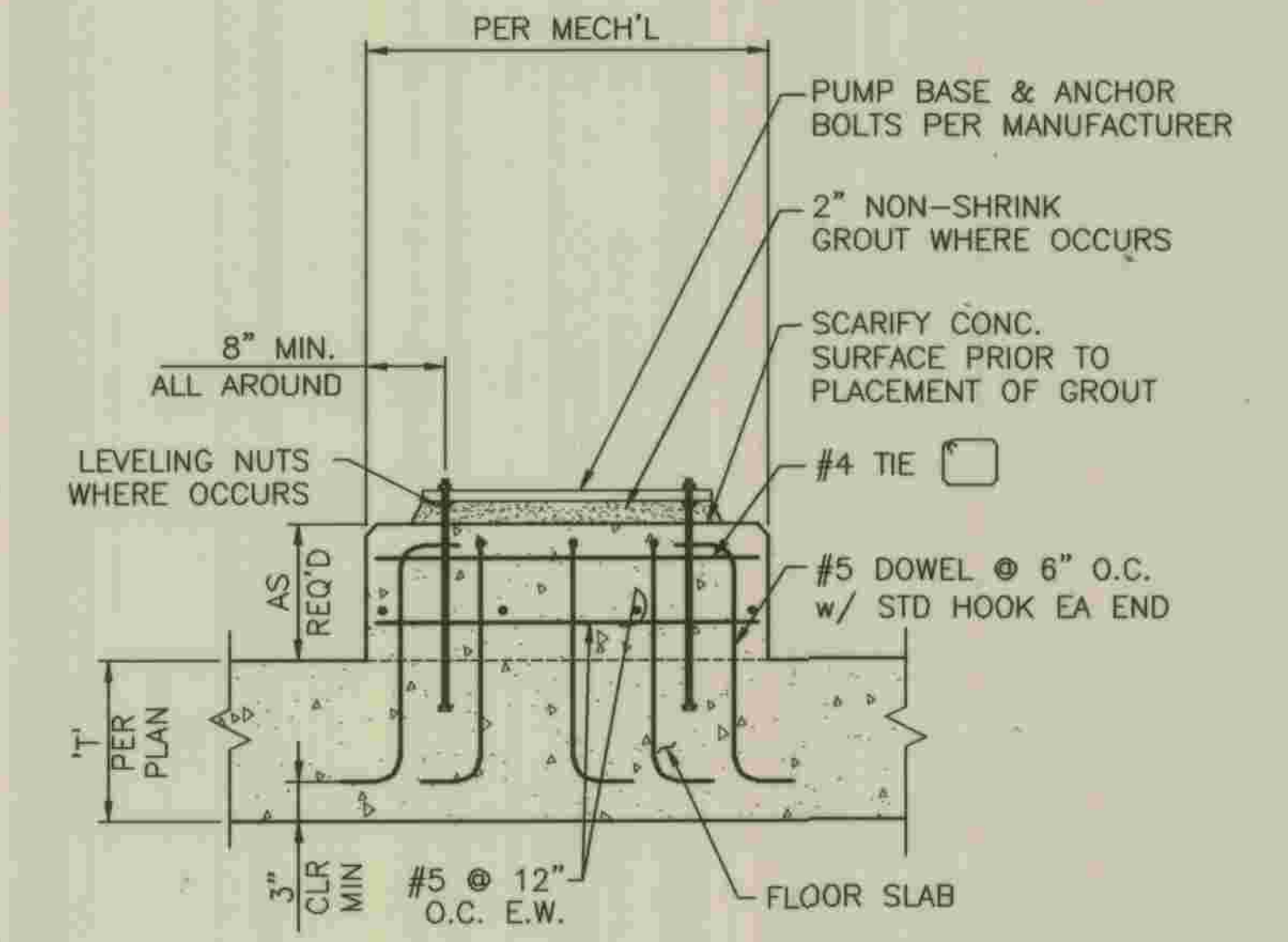
- NOTES:
- WHERE PIPES ARE MORE THAN 4'-0" BELOW BOTTOM OF FOOTING, NO SPECIAL DETAILING IS REQUIRED.
 - PIPES SHALL NOT PASS UNDERNEATH GRADE BEAMS OR COLUMN FOOTINGS.
 - EMBED PIPE IN ABS SLEEVE WITH 1" CLR ALL AROUND OR IN 1" FOAM RUBBER WRAP.
 - MAXIMUM PIPE SIZE IS 10" DIAMETER. LARGER SIZES MUST BE APPROVED BY THE ENGINEER.
 - SEE CIVIL & MECHANICAL DRAWINGS FOR LOCATION & SIZE OF PIPES.
 - FOOTING THICKNESS - NO PIPES SHALL BE PLACED WITHIN THIS HEIGHT.



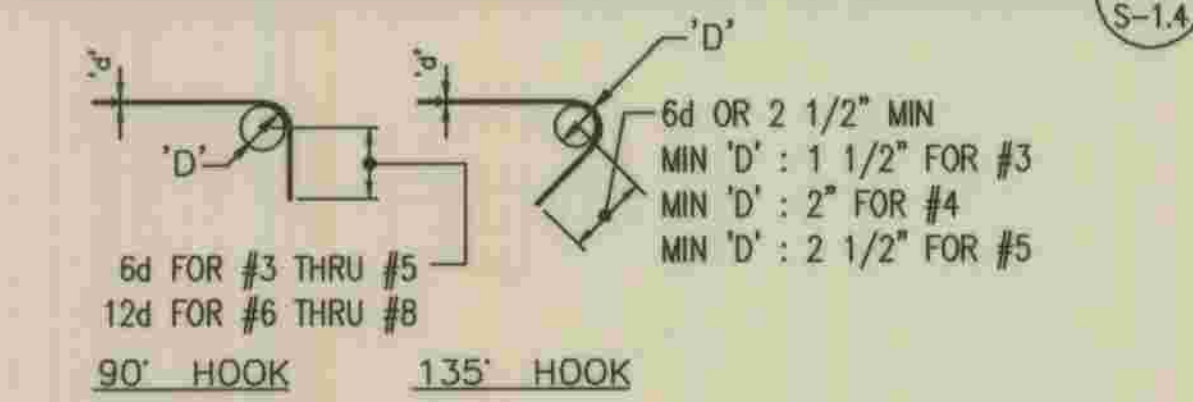
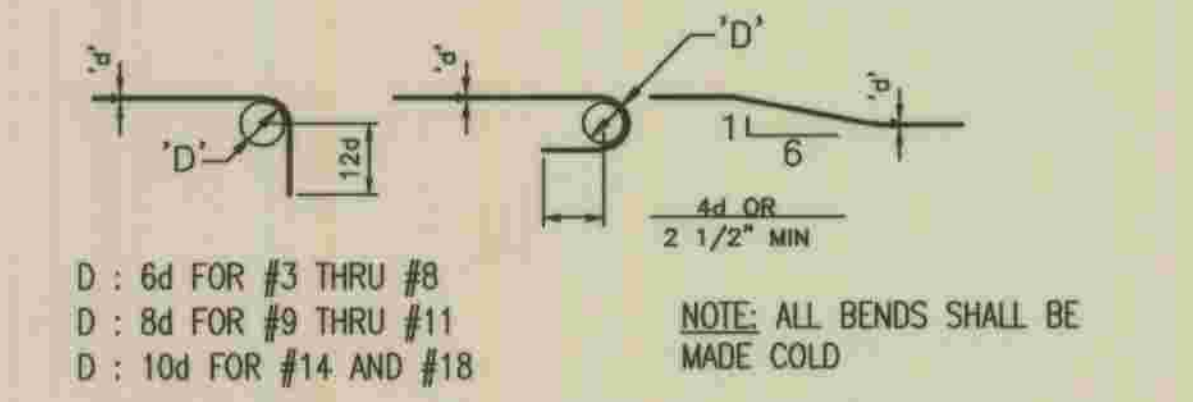
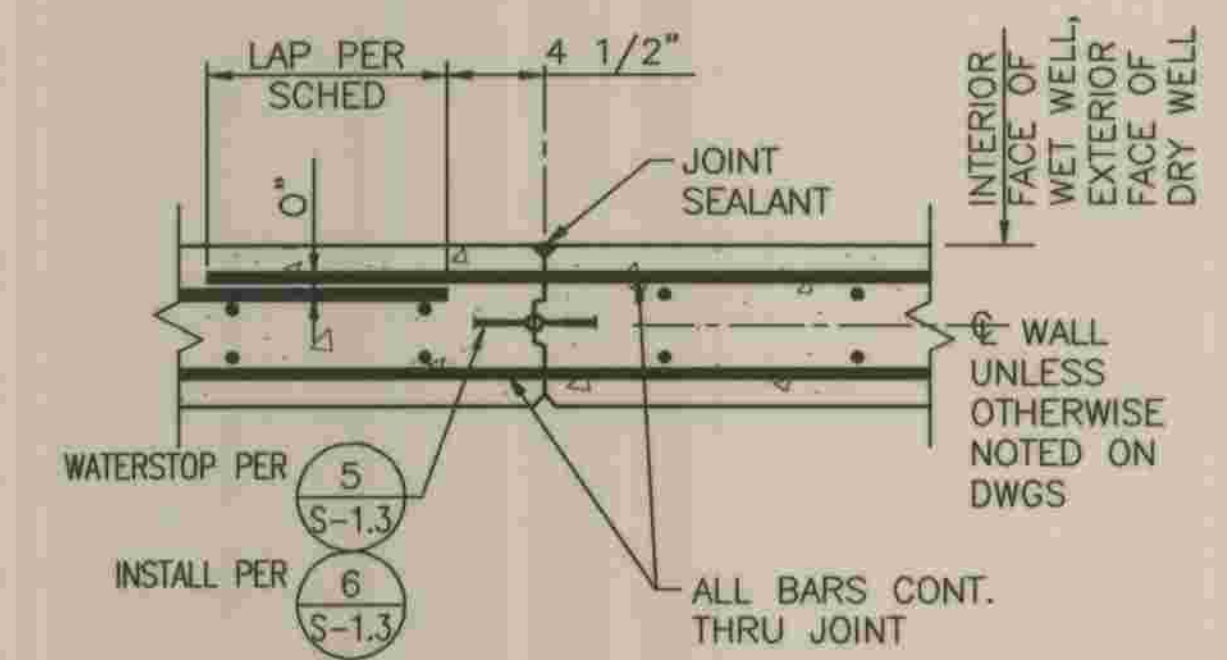
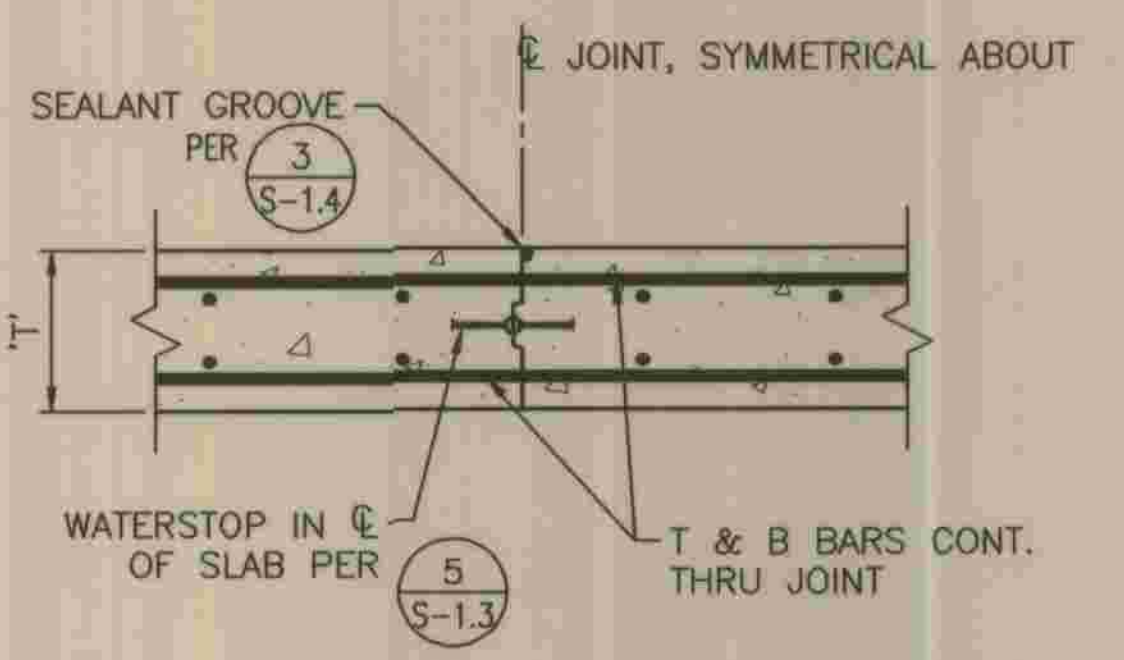
- NOTE:
- WHERE FACE OF JOINT IS TO BE COATED WITH BOND BREAKER AVOID COATING SEALANT GROOVE.
 - ALL FLOOR JOINTS OF HYDRAULIC STRUCTURES (MEMBERS COVERED WITH WATER) SHALL HAVE SEALANT GROOVE



NOTE: WHERE SINGLE LAYER OF REINFORCING OCCURS, BEND STEEL AS SHOWN FOR OUTSIDE BARS.



- NOTES:
- PUMP PAD DETAIL APPLIES TO PUMPS FURNISHED AND SUPPLIED FOR THIS CONTRACT AND SHALL COMPLY WITH THE MANUFACTURERS RECOMMENDATION AND REQUIREMENTS.
 - CONSTRUCT PUMP PAD IN CONJUNCTION WITH THE FLOOR SLAB, USE HOOKED DOWELS AND PLACE THE BOLTS PER MANUFACTURERS RECOMMENDATIONS.
 - ANCHOR BOLTS SHALL BE 316 STAINLESS STEEL MATERIAL MIN. WITH THE TOP AND BOTTOM 4" THREADED AND SHALL CONFORM WITH THE MANUFACTURERS REQUIREMENTS.
 - USE LEVELING NUTS TO LEVEL EQUIPMENT BASE. DO NOT USE SHIMS. BASE R'S TO BE GROUTED FOR FULL BEARING AFTER FINAL LEVELING.



PUMP PAD DETAIL

N.T.S.

9 S-1.4

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Devin A. Brown 5/28/09

DEVIN A. BROWN DATE

DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY

CHECKED *Peter Chang* 7-28-2009

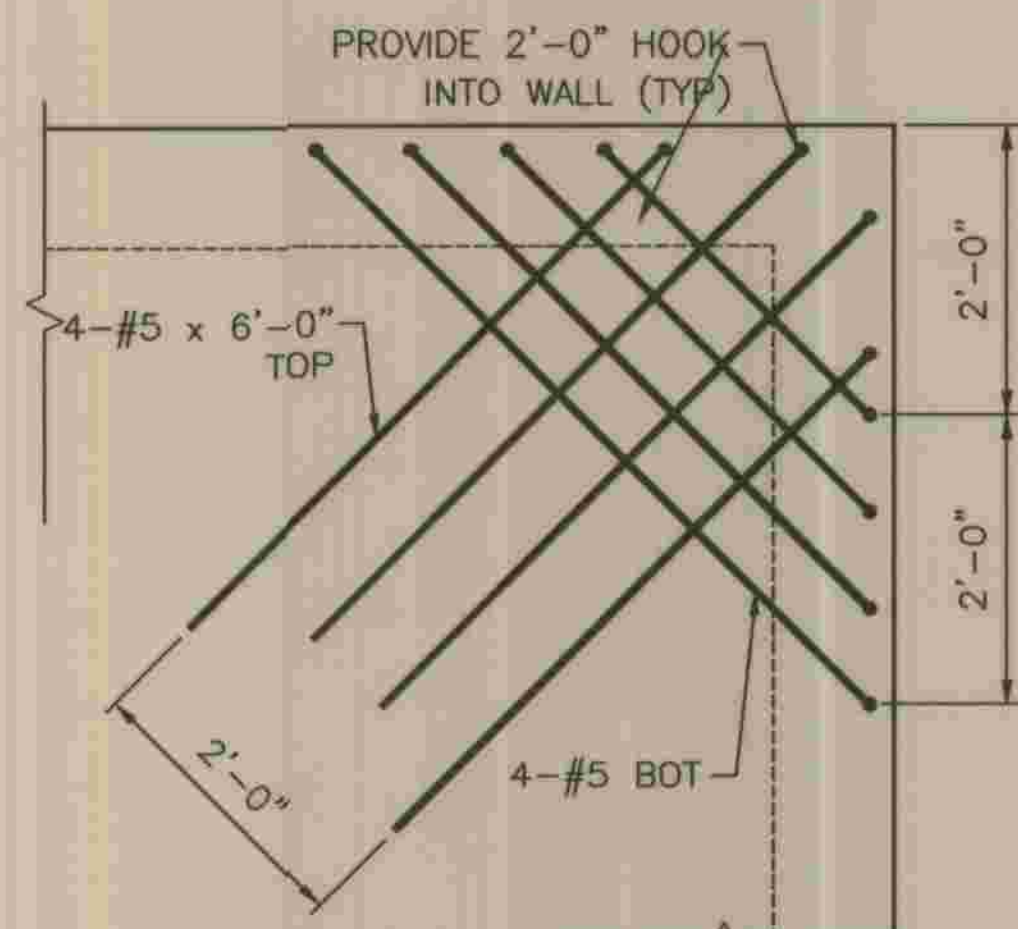
DESIGN DIVISION DATE

NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY

REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.

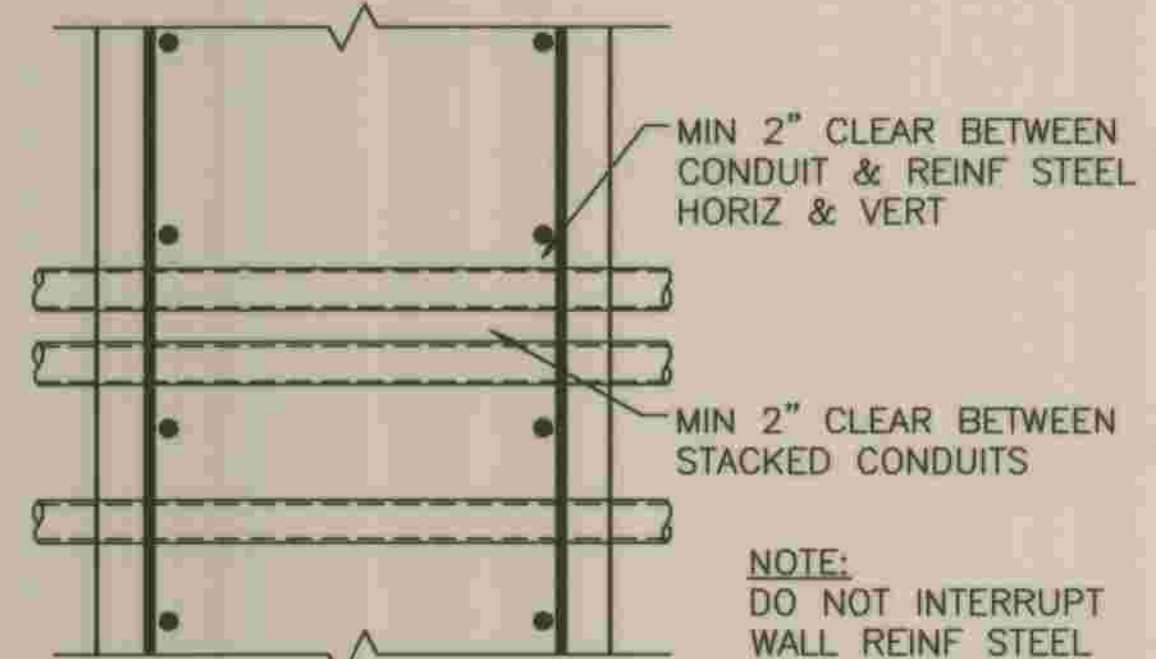
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PARCEL MAP NO. 26363	SPEC. NO.	SHEET
GENERAL STRUCTURAL DETAILS	OF	15
	JOB NO.	OF
	DRAWING NO.	61
		SHEETS

28-24011 .C 11042-B2



TYP REINF AT EXTERIOR CORNERS - PLAN VIEW
TYP SLAB ON BEARING WALL
3/4" = 1'-0"

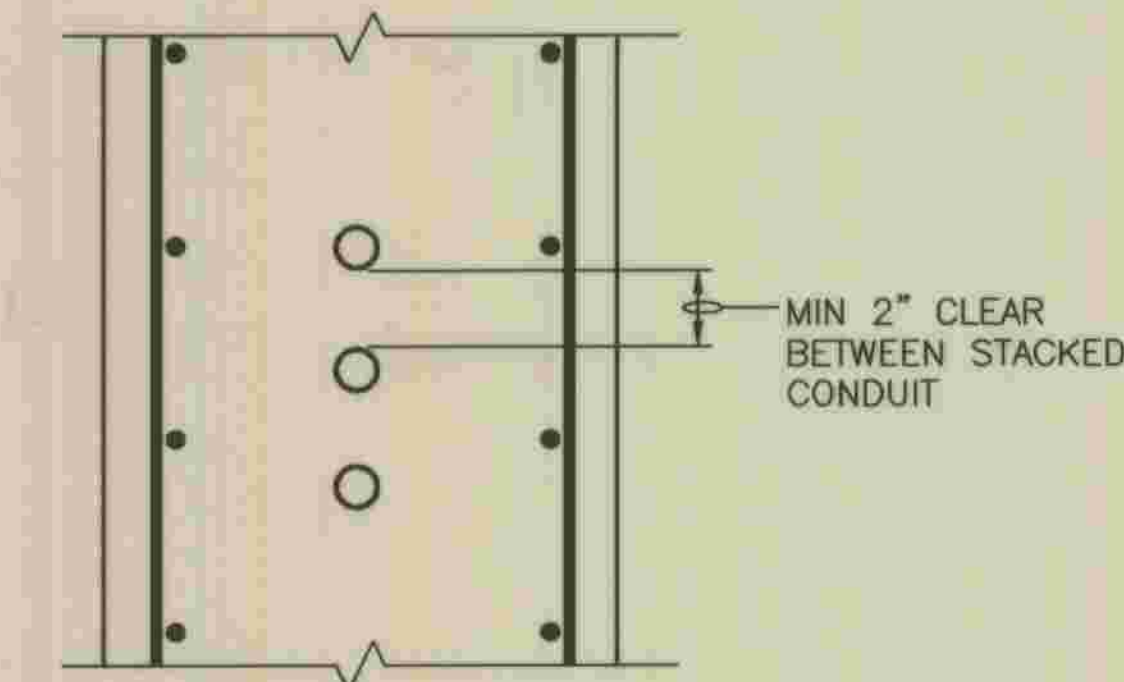
1
S-1.5



CONDUIT PERPENDICULAR TO WALL OR STRUCTURAL SLAB

1" = 1'-0"

2
S-1.5

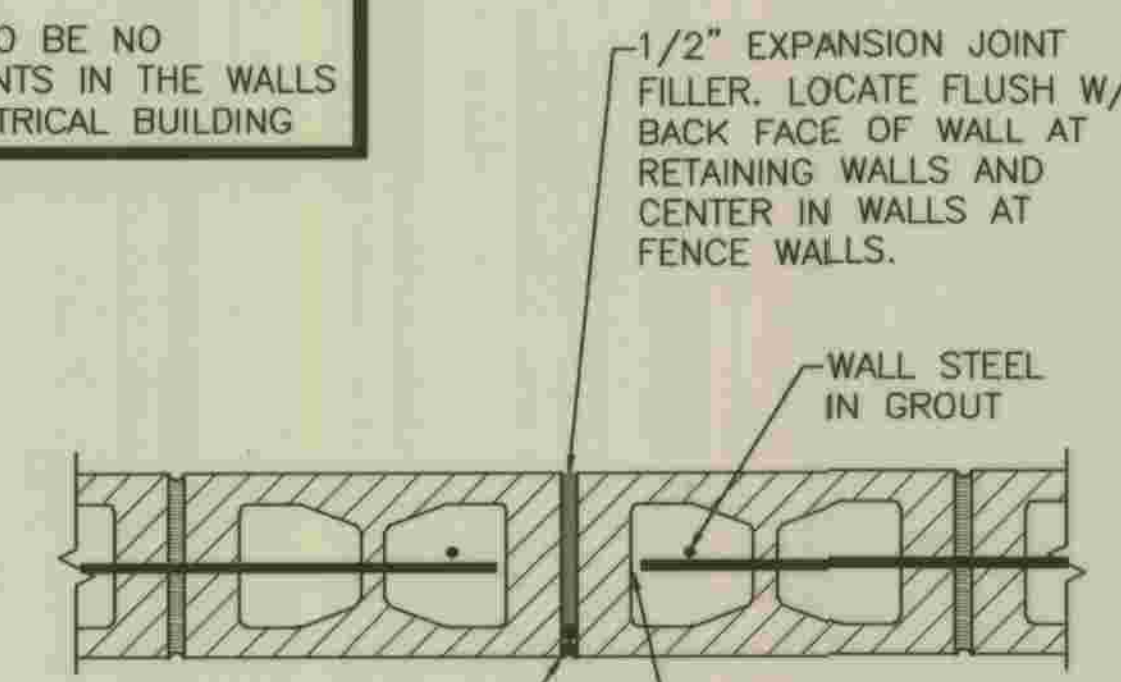


CONDUIT PARALLEL TO WALL OR STRUCTURAL SLAB

1" = 1'-0"

3
S-1.5

NOTE
THERE ARE TO BE NO MASONRY JOINTS IN THE WALLS OF THE ELECTRICAL BUILDING



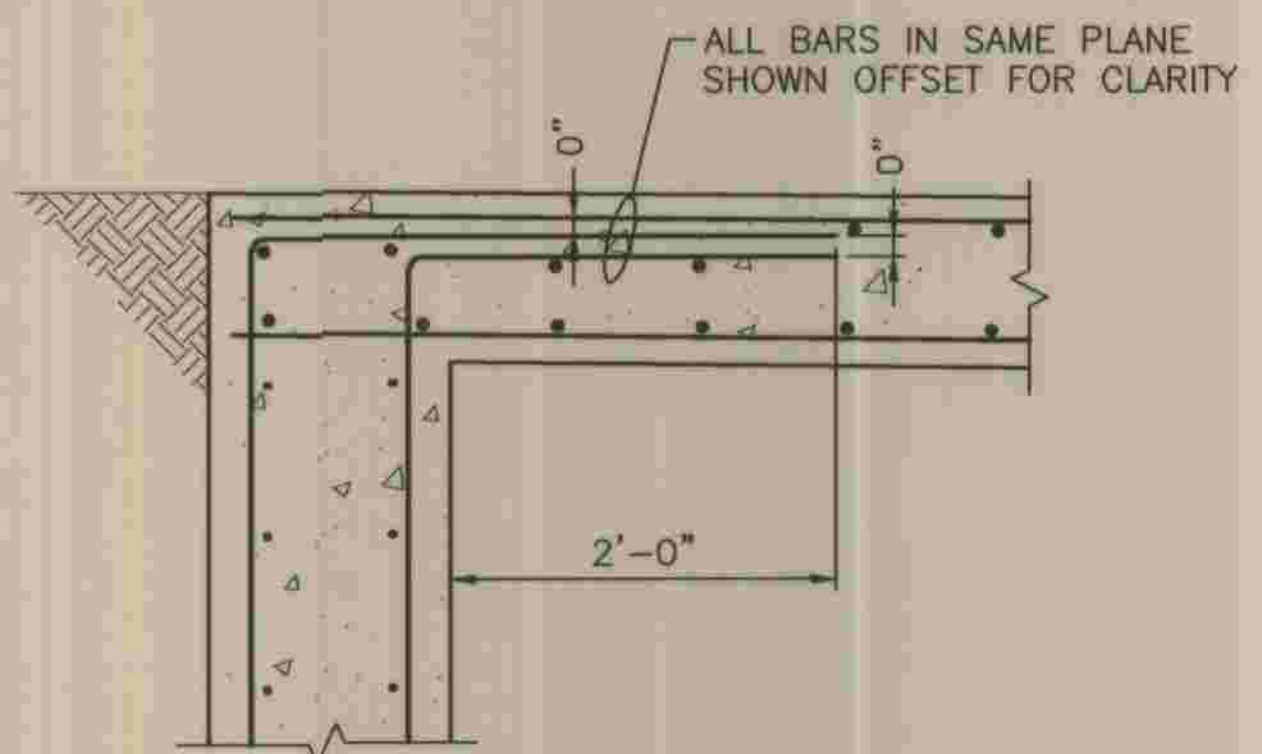
WALL JOINTS FOR MASONRY SITE WALL

1" = 1'-0"

03/24/04

PSDE017

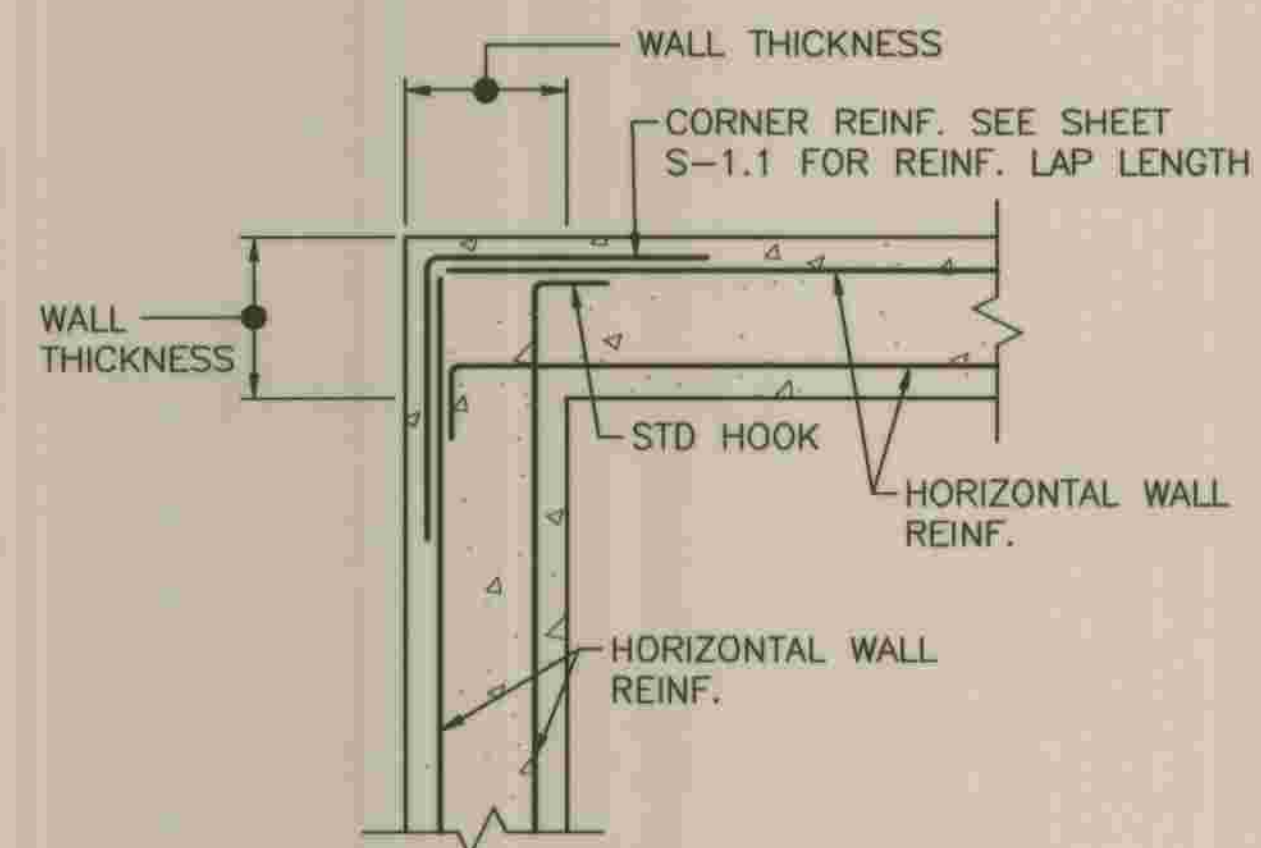
4
S-1.5



SECTION AT TOP OF WALL

1" = 1'-0"

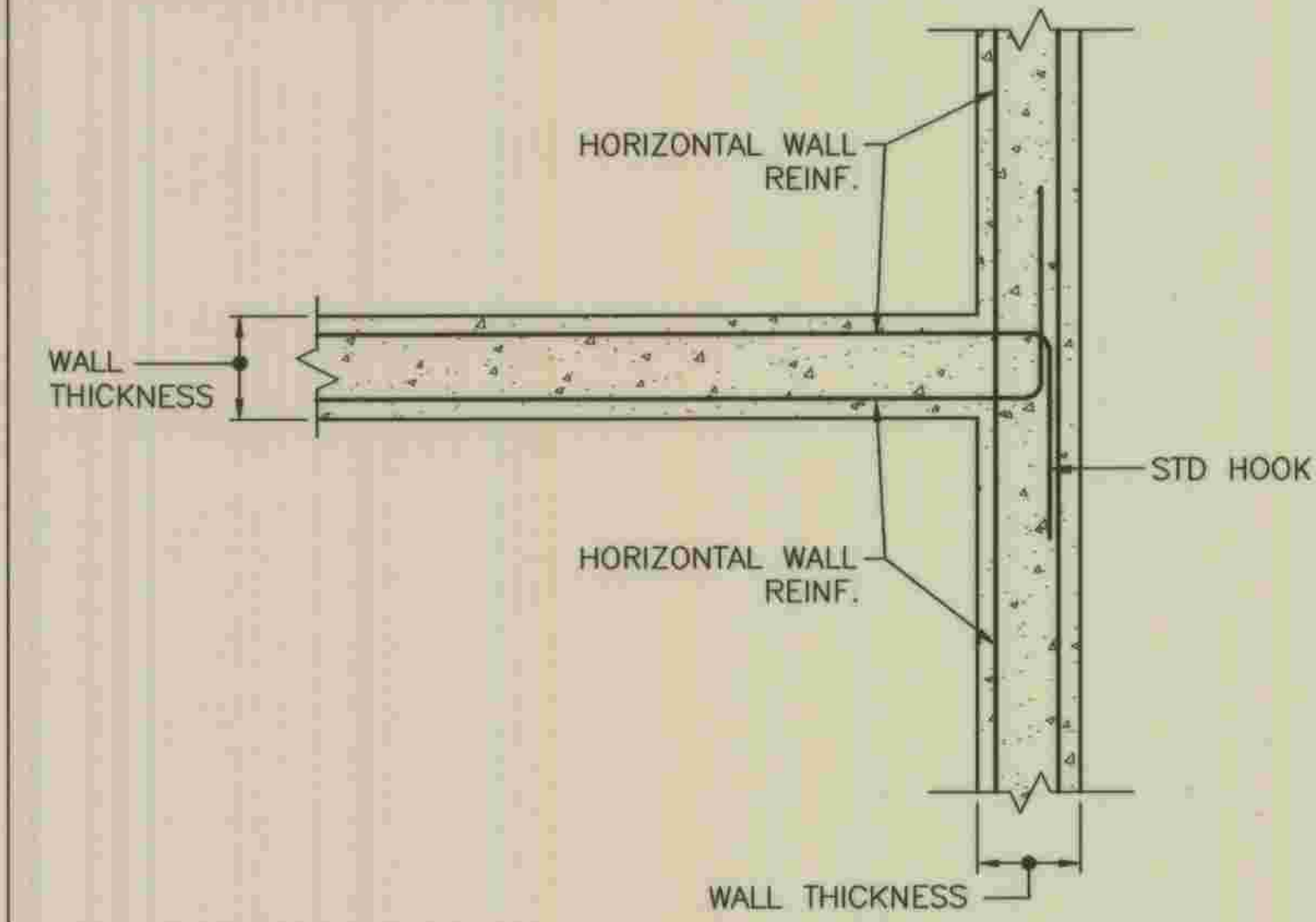
5
S-1.5



TYP REINF AT WALL CORNERS

1" = 1'-0"

6
S-1.5

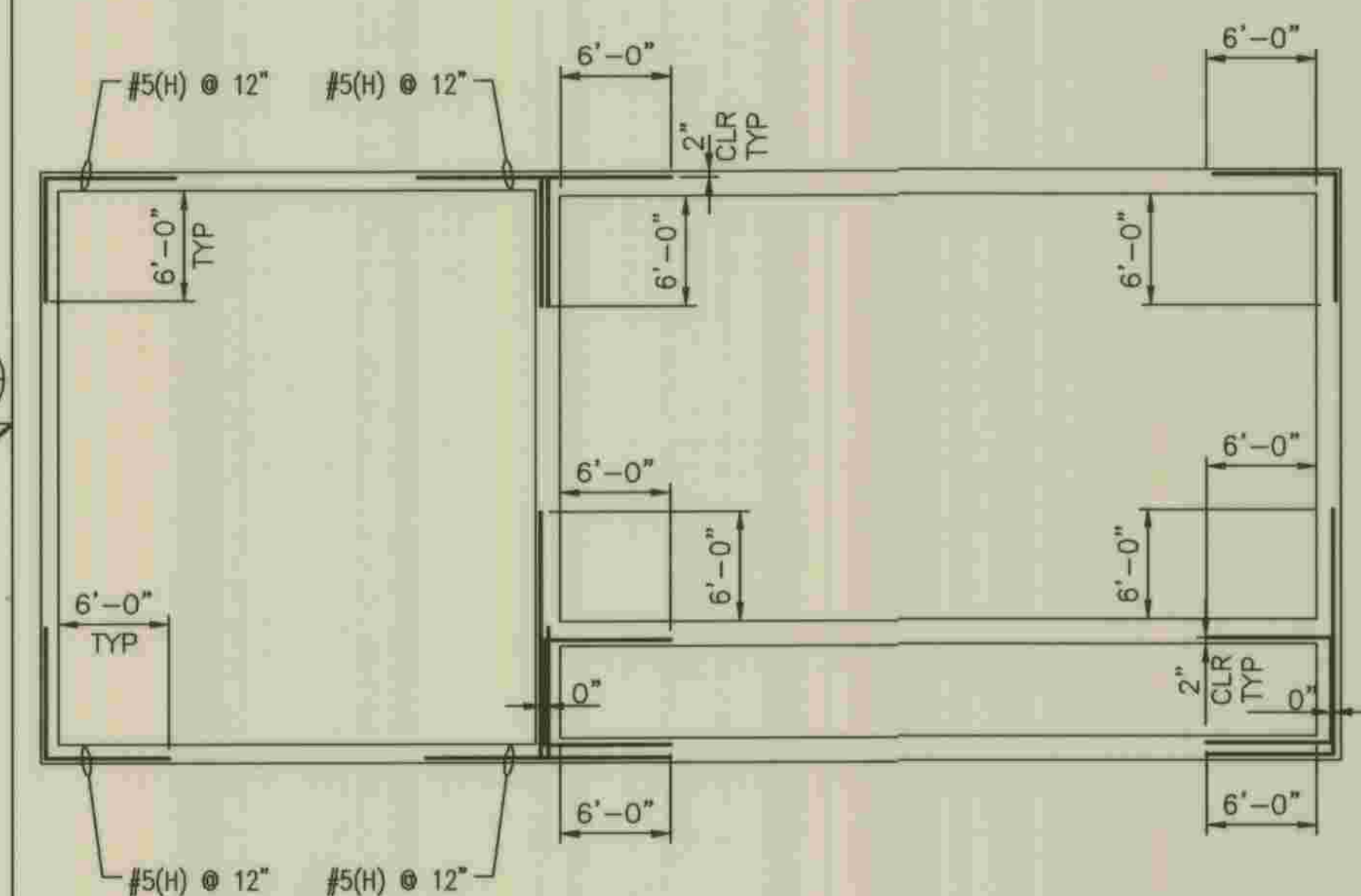


TYP REINF AT WALL INTERSECTIONS

N.T.S.

7
S-1.5

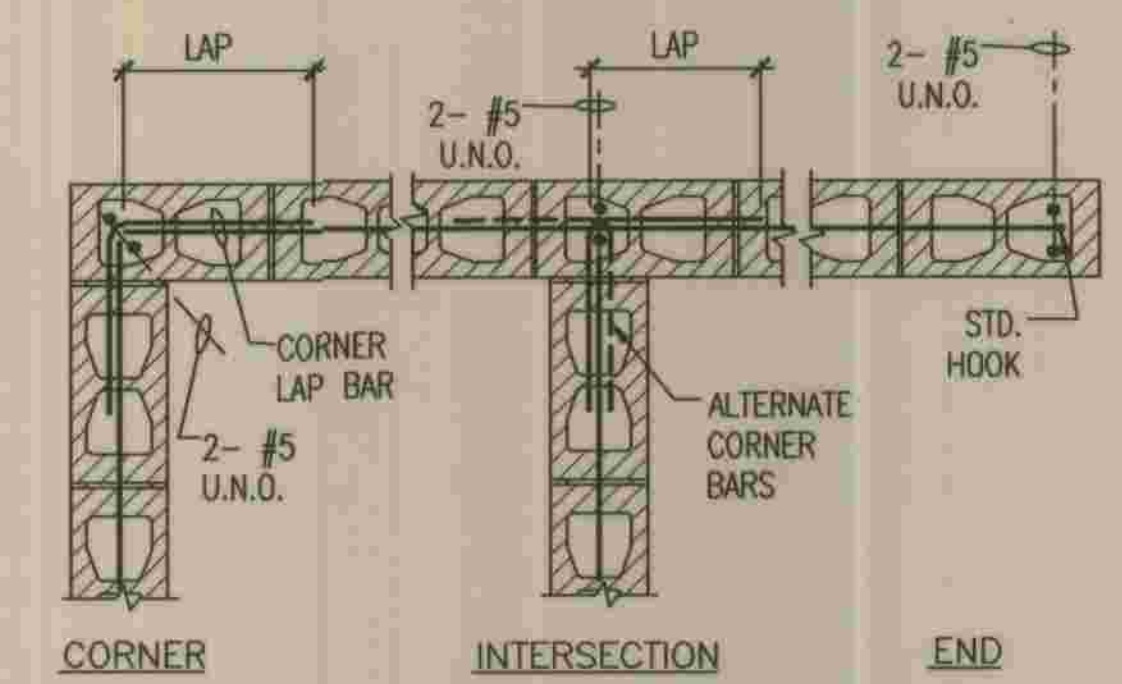
ALL BARS SHOWN ARE ADDITIONAL #6(H) @ 12" O.C. U.N.O. ALTERNATE W/ HORIZ WALL REINF PER 6 & 7 S-1.5



ADDITIONAL HORIZONTAL WALL REINF & CORNER BARS @ PUMP STATION

N.T.S.

8
S-1.5



TYPICAL MASONRY REINFORCEMENT-1 ROW

1" = 1'-0"

08/17/07

PSDE032

9
S-1.5

ROD DIAM	EDGE DIST		EMBED	
	(A)	(B)	(A)	(B)
1/2"	17"	N/A	4 1/4"	N/A
5/8"	20"	3 1/2"	5"	5"
3/4"	27"	3 1/2"	6 3/4"	5"

- NOTES:
1. THREADED RODS SHALL BE A.S.T.M. A307 (SAE 1018) U.N.O.
 2. THREADED RODS SHALL BE PLACED CLEAN & FREE OF OIL, DIRT, RUST OR ANY OTHER DELETERIOUS MATERIALS.
 3. EPOXY THREADED RODS WITH SIMPSON 'SET' HIGH STRENGTH EPOXY.
 4. ROUGHEN AND CLEAN HOLE PRIOR TO PLACING EPOXY.
 5. INSTALL EPOXY/THREADED ROD ASSEMBLY PER I.C.C. ESR-1772.
 6. NO CUTTING OF EXISTING REINFORCEMENT SHALL BE ALLOWED IN THE INSTALLATION OF EPOXY ANCHORS UNLESS APPROVED BY THE ENGINEER OF RECORD.
 7. SPECIAL INSPECTION OF THREADED ROD INSTALLATION IS REQUIRED.

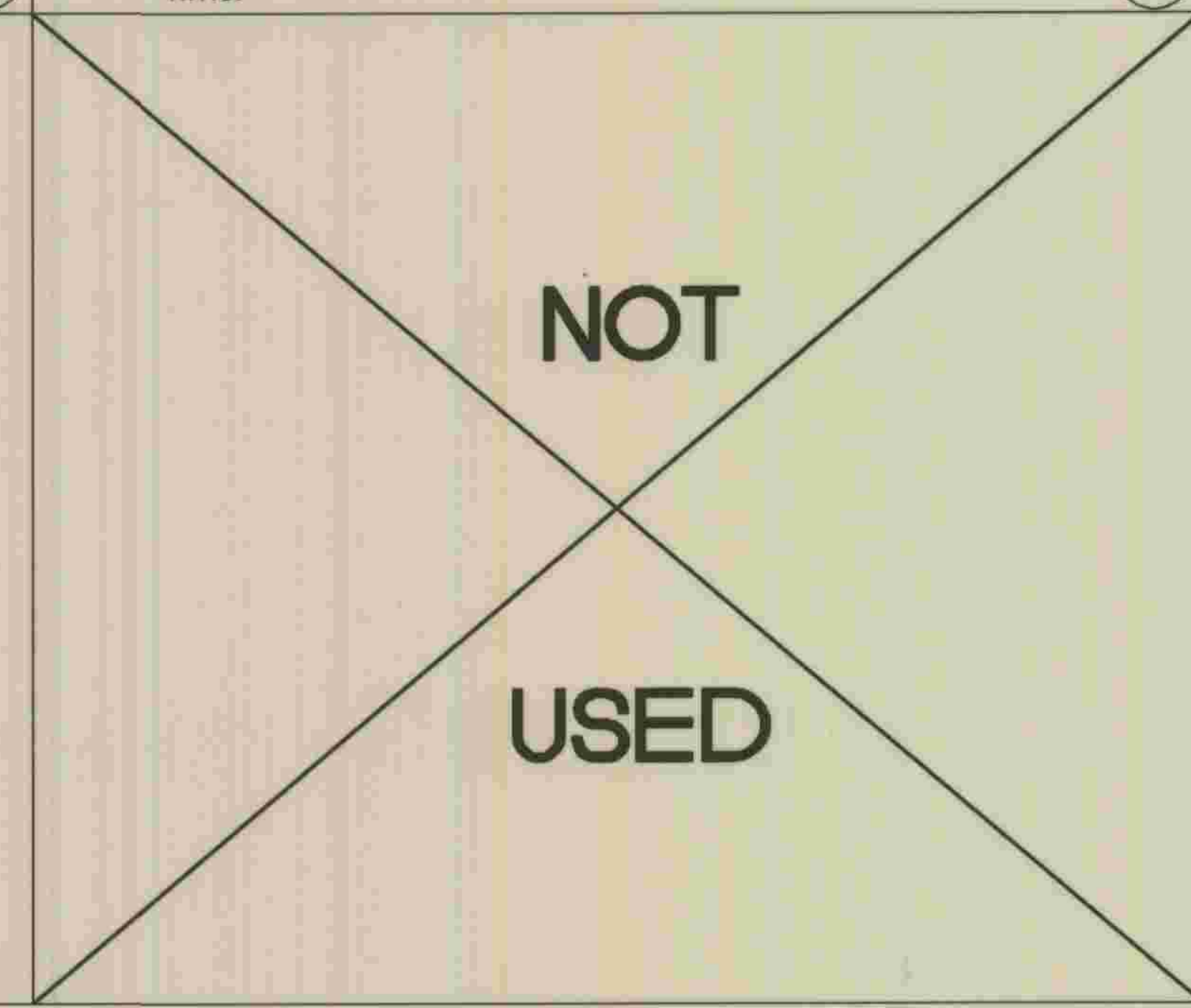
EPOXY ADHESIVE ANCHORS IN MASONRY

1" = 1'-0"

08/16/2007

PSDE033

10
S-1.5



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DEVIN A. BROWN DATE 5/28/09

DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY

CHECKED *Peter Chang* 7-28-2009
DESIGN DIVISION DATE

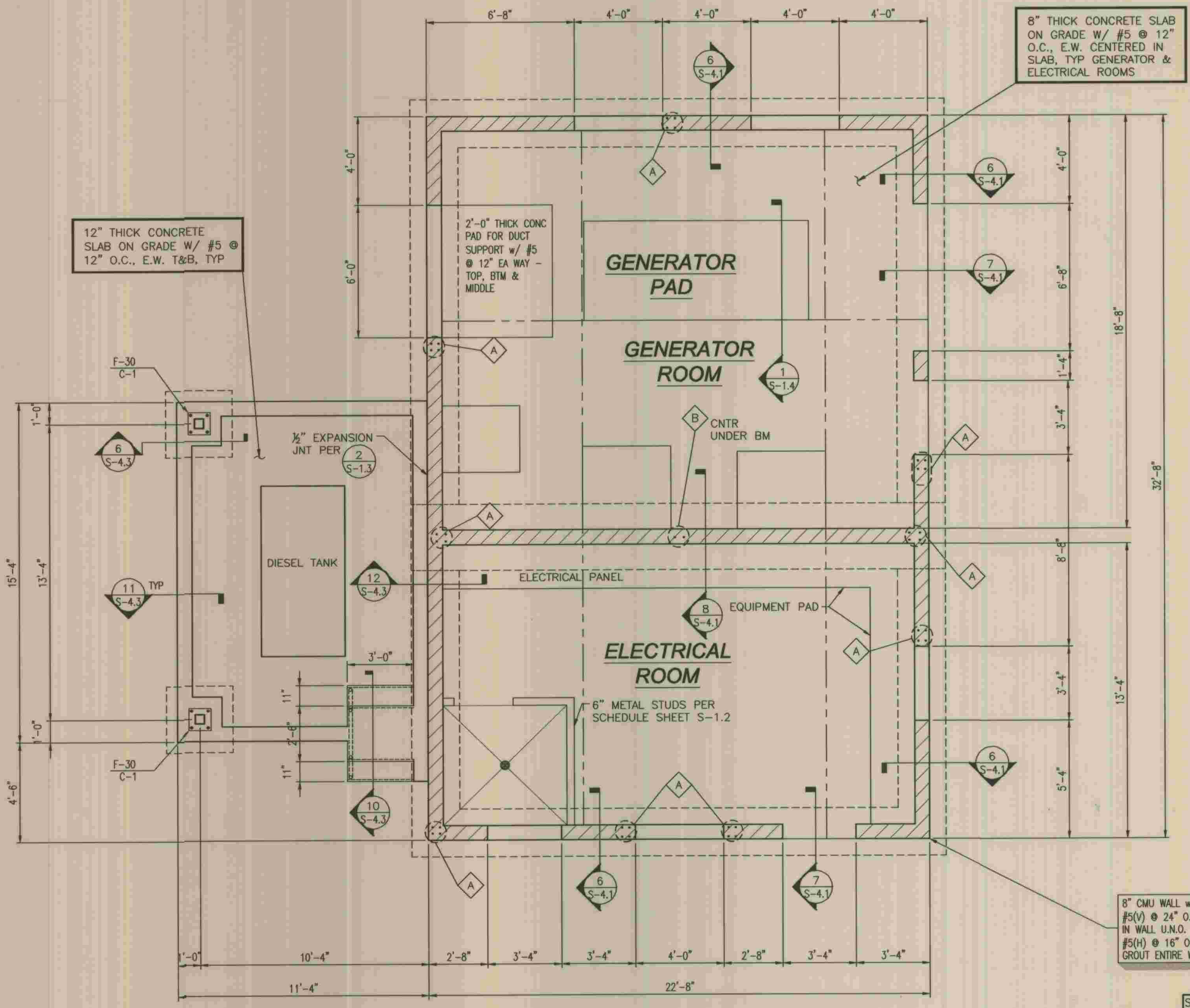
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REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.

LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS
HANCOCK PARKWAY
SEWAGE LIFT STATION (TEMPORARY)
PARCEL MAP NO. 26363

GENERAL STRUCTURAL DETAILS

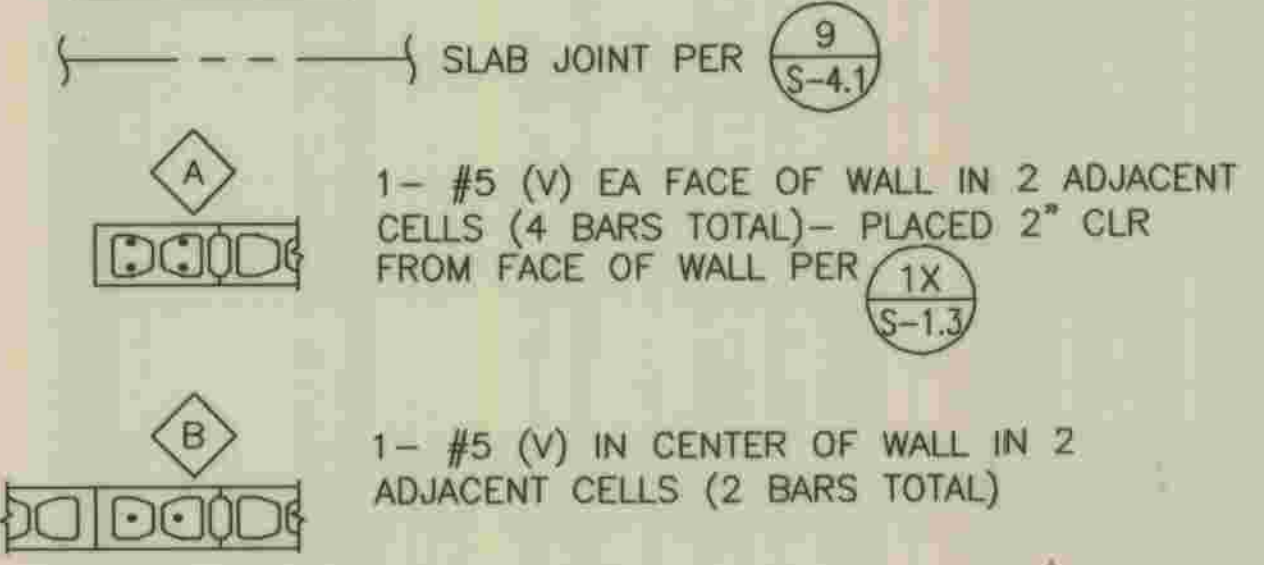
S-1.5	SHEET
16	OF
61	SHEETS



NOTES:

- REFER TO ARCH'L & MECH'L DWGS FOR ALL ELEVATIONS, DIMENSIONS, AND OPENINGS NOT SHOWN.
- REFER TO SHEET S-1.1 & S-1.2 FOR GENERAL NOTES AND SHEET S-1.2, S-1.3, S-1.4 AND S-1.5 FOR TYPICAL DETAILS.
- CONCRETE SLAB SHALL BE UNDRDRAIN WITH A MINIMUM 10 MIL POLYVINYLCHLORIDE OR EQUIVALENT MEMBRANE WITH ALL LAPS SEALED. PLACE 2" OF SAND ABOVE AND BELOW MEMBRANE (4" TOTAL THICKNESS OF SAND). VERIFY WITH SOILS REPORT.
- FOR EQUIPMENT PAD DETAIL, SEE (4) S-1.2
- TYPICAL MASONRY WALL REINF PER (1) S-1.3 & (9) S-1.5

LEGEND

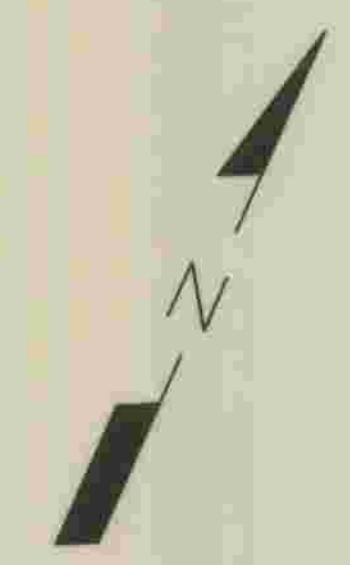


SPREAD FOOTING SCHEDULE				
MARK	WIDTH x LENGTH	THICKNESS	REINFORCING	REMARKS
F-30	3'-0" x 3'-0"	24"	4- #5 E.W. BOT	

COLUMN SCHEDULE		
MARK	SIZE & TYPE	BASE PLATE
C-1	HSS 5x5x1/4	PL 3/4 x 12 x 1'-0" w/ 4- 3/8" A.B.'S

8" CMU WALL w/
#5(V) @ 24" O.C. CENTERED
IN WALL U.N.O.
#5(H) @ 16" O.C.
GROUT ENTIRE WALL SOLID.

SEE MECHANICAL & ARCHITECTURAL
DRAWINGS FOR ALL SLAB AND
EQUIPMENT PADS INFORMATION



FOUNDATION PLAN
3/8" = 1'-0"

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Devin A. Brown 5/28/09
DEVIN A. BROWN DATE

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REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.
LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS
**HANCOCK PARKWAY
SEWAGE LIFT STATION (TEMPORARY)**
PARCEL MAP NO. 26363
ELECTRICAL BUILDING FOUNDATION PLAN

S-2.1
SHEET
17
OF
61
SHEETS

ROOF FRAMING NOTES & LEGEND:

- REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL ELEVATIONS, DIMENSIONS AND OPENINGS NOT SHOWN.
- DESIGN ROOF LOADS:
 - COMPOSITE DECK:
 - DEAD LOAD = 49 PSF + 6 PSF FRAMING
 - LIVE LOAD = 20 PSF (REDUCIBLE)
 - NON-COMPOSITE DECK:
 - DEAD LOAD = 7 PSF + 5 PSF FRAMING
 - LIVE LOAD = 20 PSF (REDUCIBLE)
- T.O.S. = TOP OF STEEL ELEVATION
T.O.W. = TOP OF MASONRY WALL ELEVATION
- INDICATES WALL OPENING BELOW
- INDICATES DIRECTION OF DECK SPAN

METAL ROOF DECK NOTES:

- COMPOSITE METAL ROOF DECK ASSEMBLY TO BE VERO TYPE W2 VENTED FORMLOK (I.C.B.O. 2078P) W/ STRUCTURAL CONCRETE FILL (SEE SECTION 'X' OF 'COMPOSITE ROOF DECK WELDING NOTES'). STEEL DECK INSTITUTE SPECIFICATIONS AND RECOMMENDATIONS SHALL APPLY.
- NON-COMPOSITE METAL ROOF DECK ASSEMBLY TO BE VERO TYPE HSB-36 (I.C.B.O. 2078P) - (SEE SECTION 'A' OF 'NON-COMPOSITE ROOF DECK WELDING NOTES'). STEEL DECK INSTITUTE SPECIFICATIONS AND RECOMMENDATIONS SHALL APPLY.
- ALL METAL DECK SHALL BE PRIME-PAINTED FORMED A.S.T.M. 611 GRADE C MINIMUM WITH A MINIMUM YIELD STRENGTH OF 38,000 PSI.
- ALL DECK SHALL BE CONTINUOUS OVER 2 SPANS WHERE POSSIBLE. 1 BAY SPANS MAY BE USED UPON APPROVAL BY THE STRUCTURAL ENGINEER. MAXIMUM UNSUPPORTED CONSTRUCTION LENGTH = 11'-0" FOR COMPOSITE DECK.
- ALL DECKING SHALL BE PAINTED.
- COMPLY WITH A.W.S. REQUIREMENTS AND PROCEDURES FOR WELDING SHEET STEEL IN STRUCTURES.
- METAL DECK MINIMUM PROPERTIES SHALL BE AS FOLLOWS:

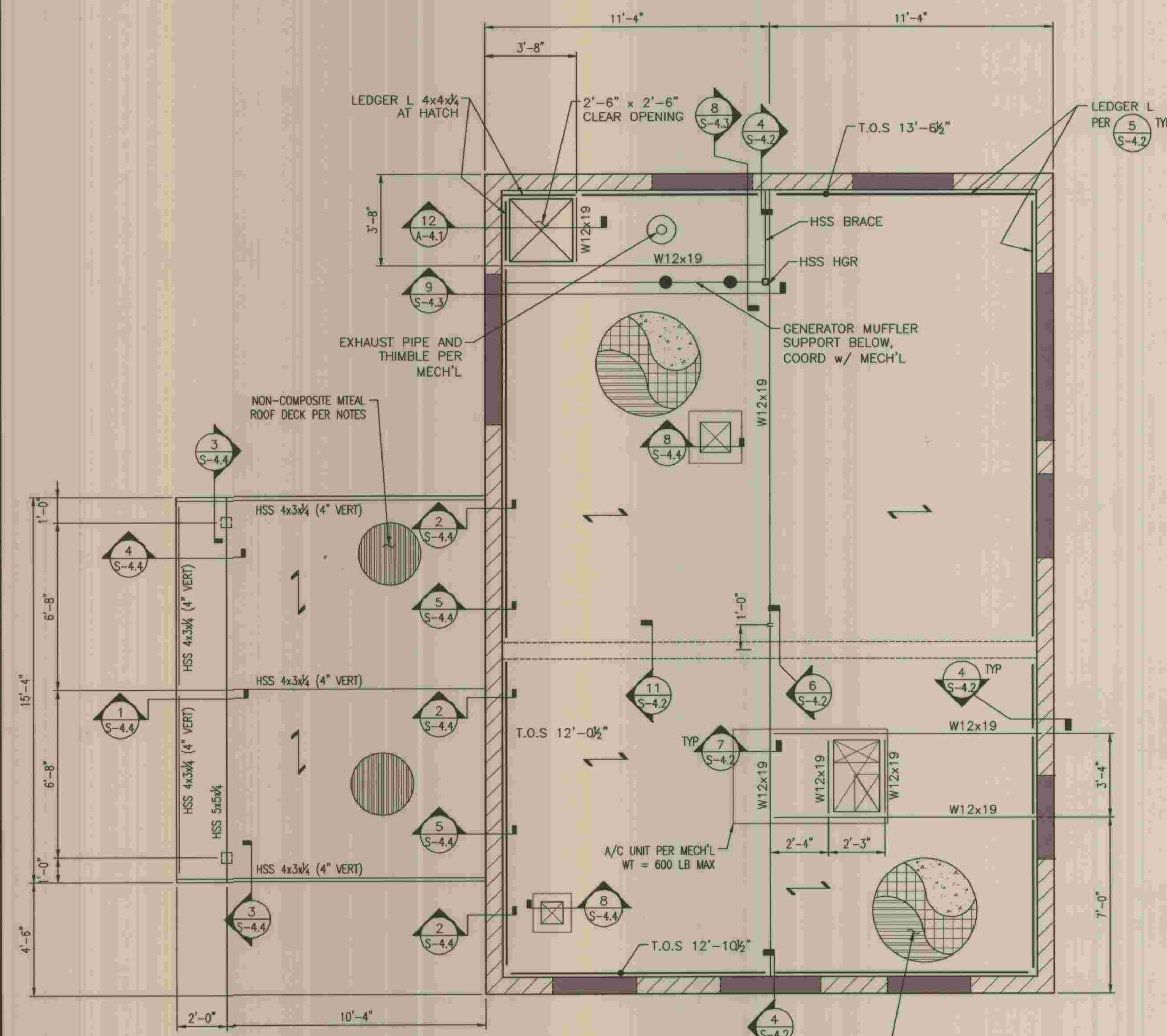
COMPOSITE	THICKNESS - 18 GAGE; WEIGHT (PSF) - 2.5;
	I (IN ⁴ /FT) - 0.555; +S (IN ³ /FT) - 0.510;
	-S (IN ³ /FT) - 0.511
NON-COMPOSITE	THICKNESS - 18 GAGE; WEIGHT (PSF) - 2.8;
	I (IN ⁴ /FT) - 0.302; +S (IN ³ /FT) - 0.322;
	-S (IN ³ /FT) - 0.335

NON-COMPOSITE ROOF DECK WELDING NOTES:

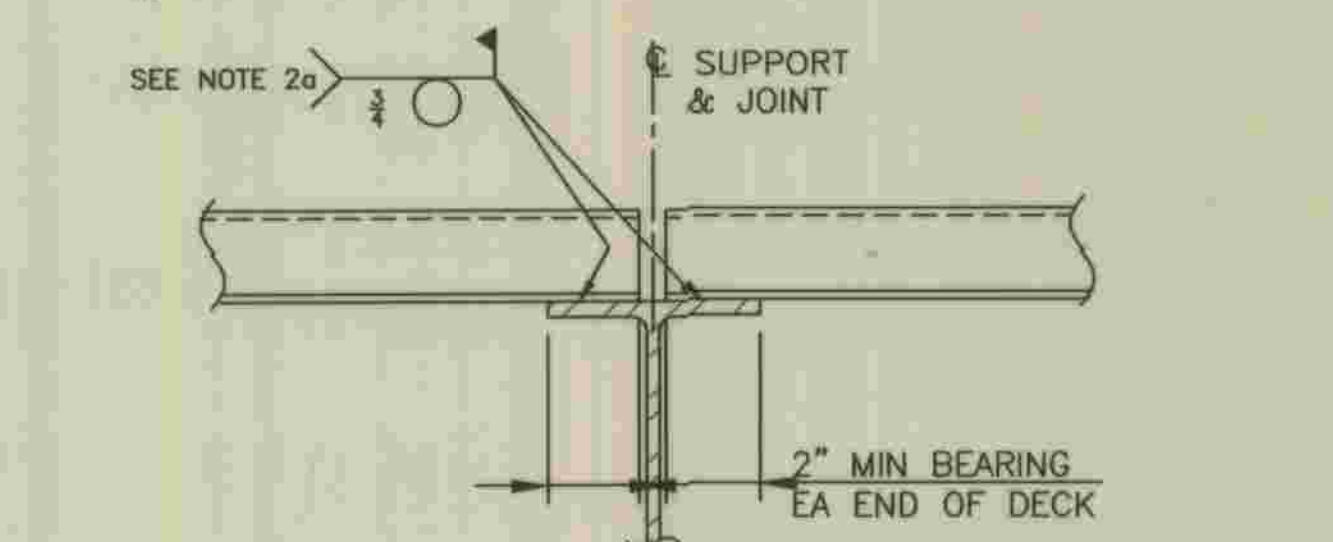
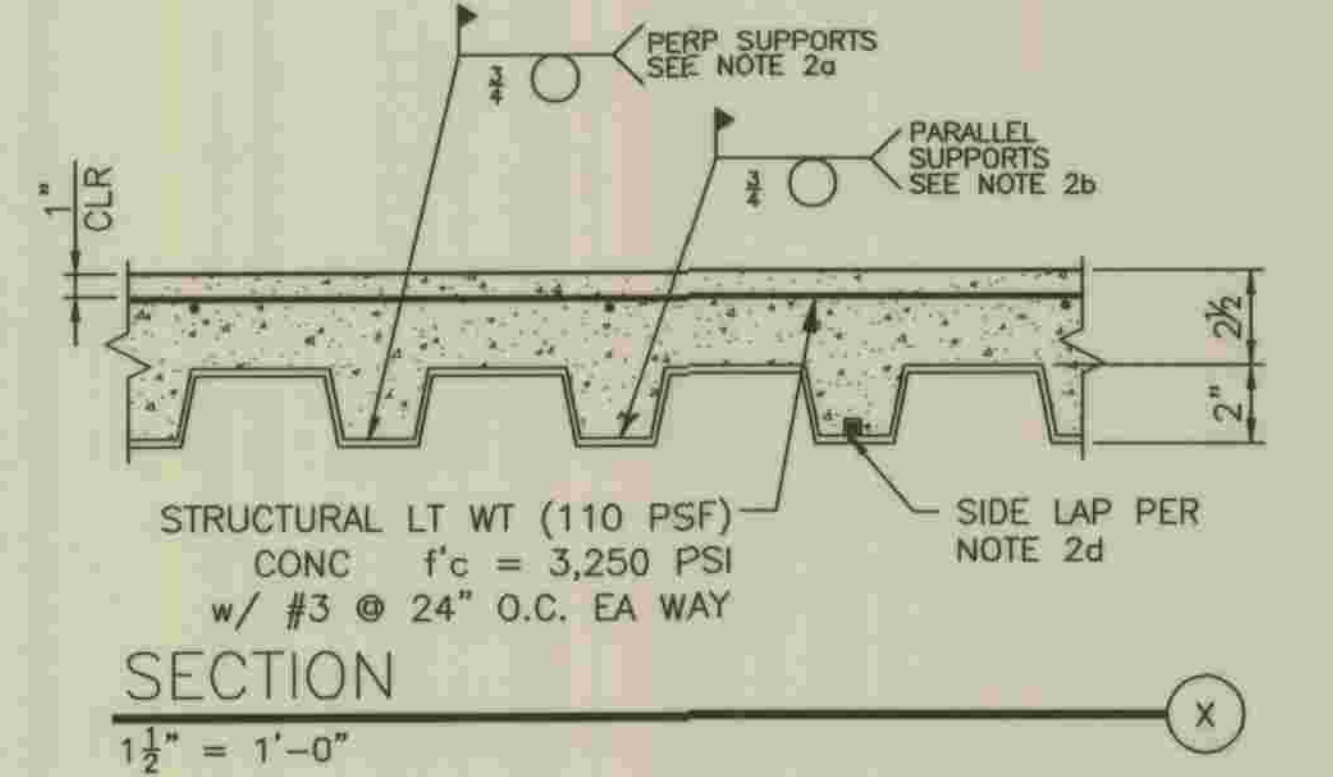
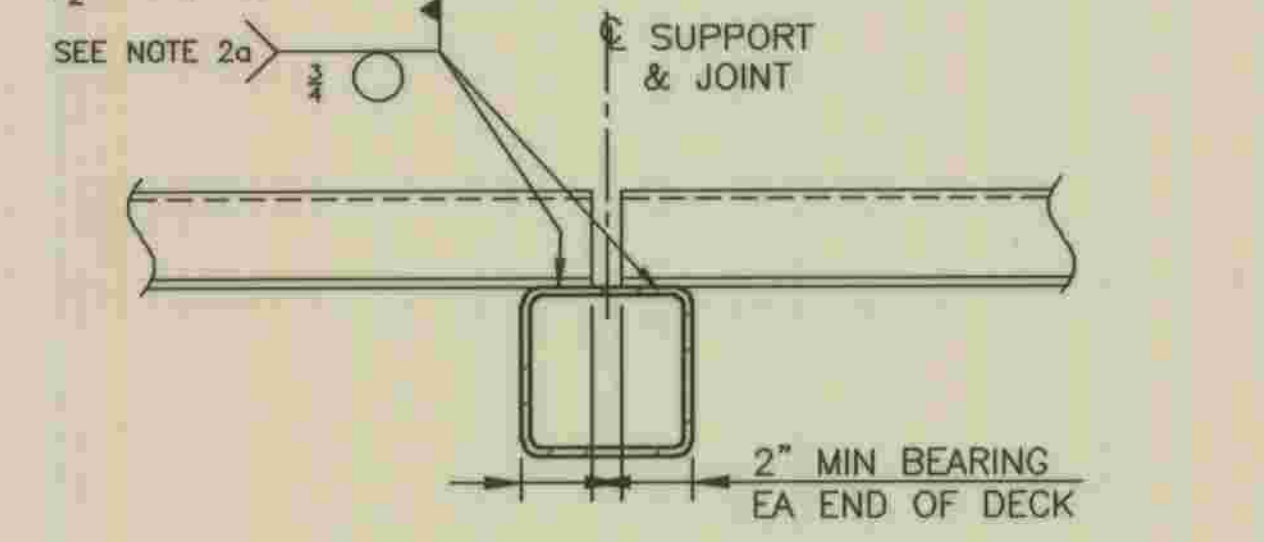
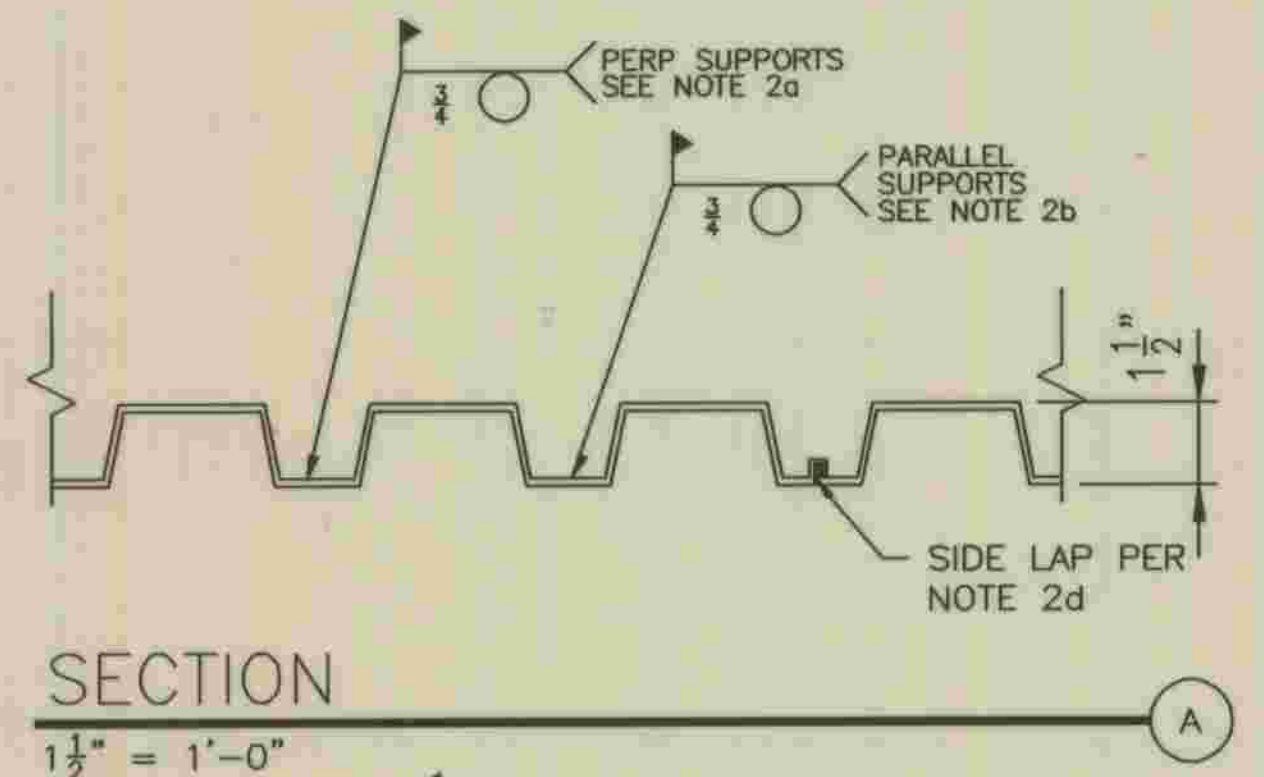
- ALL $\frac{3}{8}$ " ϕ PUDDLE WELDS SHALL BE $\frac{1}{2}$ " ϕ MIN EFFECTIVE.
- FASTEN DECK TO SUPPORTING FRAMING BY WELDING AS FOLLOWS:
 - INTERIOR SUPPORTS PERPENDICULAR TO RIBS OF DECK - 5- $\frac{3}{8}$ " ϕ PUDDLE WELDS PER 36" WIDE PANELS.
 - SUPPORTS PARALLEL TO RIBS OF DECK - $\frac{3}{8}$ " ϕ PUDDLE WELDS @ 18" O.C.
 - END LAPS AT PANEL SPLICES PER DETAIL 'B'.
 - SIDE LAPS - BUTTON PUNCH @ 24" O.C.
- FASTEN DECK TO SUPPORTING FRAMING AT OPENING AS FOLLOWS:
 - 5- $\frac{3}{8}$ " ϕ PUDDLE WELD PER 36" DECK WIDTHS AT PERPENDICULAR SUPPORTS.
 - $\frac{3}{8}$ " ϕ PUDDLE WELD @ 18" O.C. AT PARALLEL SUPPORTS.

COMPOSITE ROOF DECK WELDING NOTES:

- ALL $\frac{3}{8}$ " ϕ PUDDLE WELDS SHALL BE $\frac{1}{2}$ " ϕ MIN EFFECTIVE.
- FASTEN DECK TO SUPPORTING FRAMING BY WELDING AS FOLLOWS:
 - INTERIOR SUPPORTS PERPENDICULAR TO RIBS OF DECK - 4- $\frac{3}{8}$ " ϕ PUDDLE WELDS PER 36" WIDE PANELS.
 - SUPPORTS PARALLEL TO RIBS OF DECK - $\frac{3}{8}$ " ϕ PUDDLE WELDS @ 12" O.C.
 - END LAPS AT PANEL SPLICES PER DETAIL 'Y'.
 - SIDE LAPS - BUTTON PUNCH @ 24" O.C.
- FASTEN DECK TO SUPPORTING FRAMING AT OPENING AS FOLLOWS:
 - 4- $\frac{3}{8}$ " ϕ PUDDLE WELD PER 36" DECK WIDTHS AT PERPENDICULAR SUPPORTS.
 - $\frac{3}{8}$ " ϕ PUDDLE WELD @ 24" O.C. AT PARALLEL SUPPORTS.



ROOF FRAMING PLAN
3/8" = 1'-0"



REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.		S-2.2
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS	SPEC. NO.	SHEET
HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY)	OF	18
PARCEL MAP NO. 26363	JOB NO.	OF
	DRAWING NO.	61
ELECTRICAL BUILDING ROOF FRAMING PLAN		SHEETS

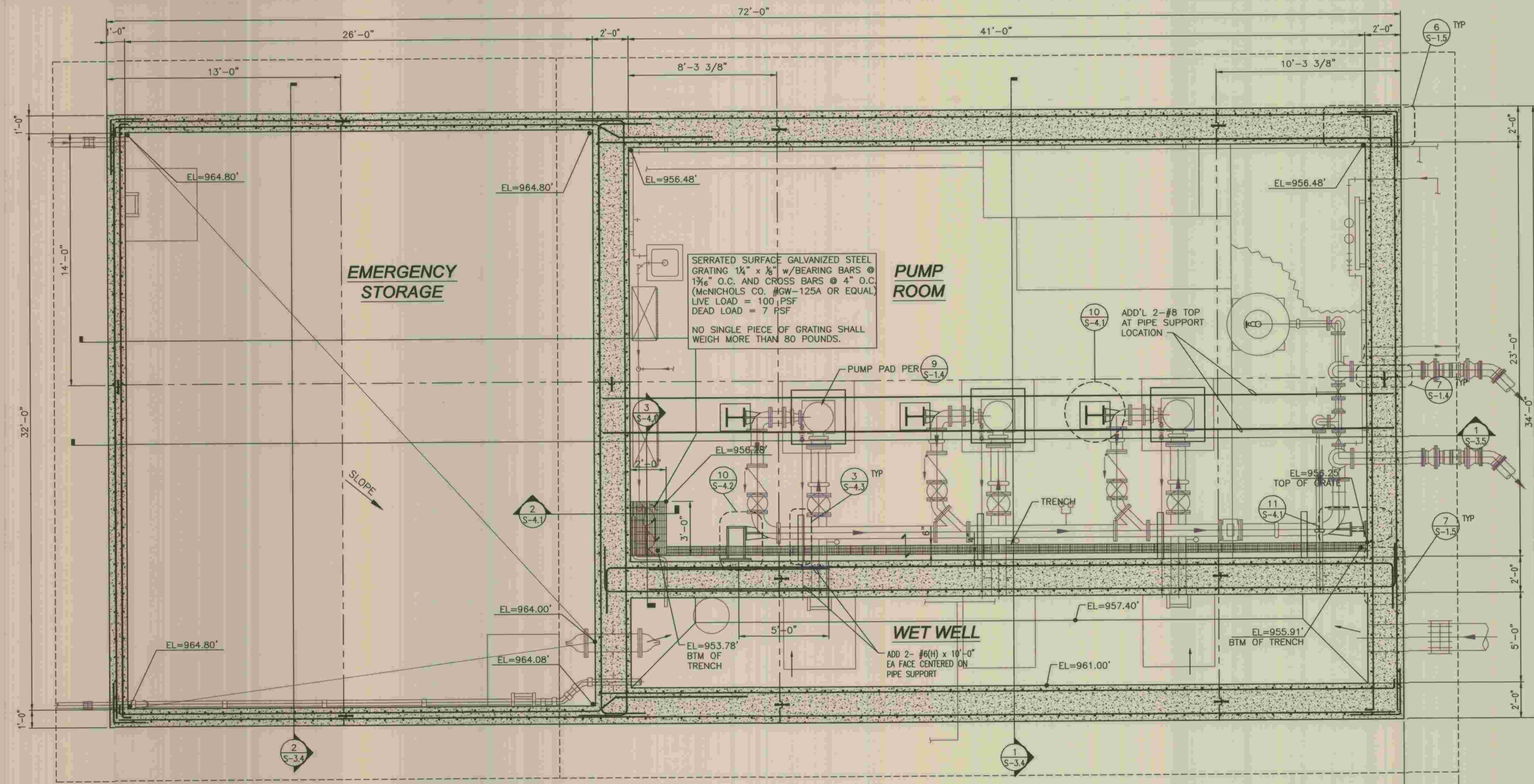
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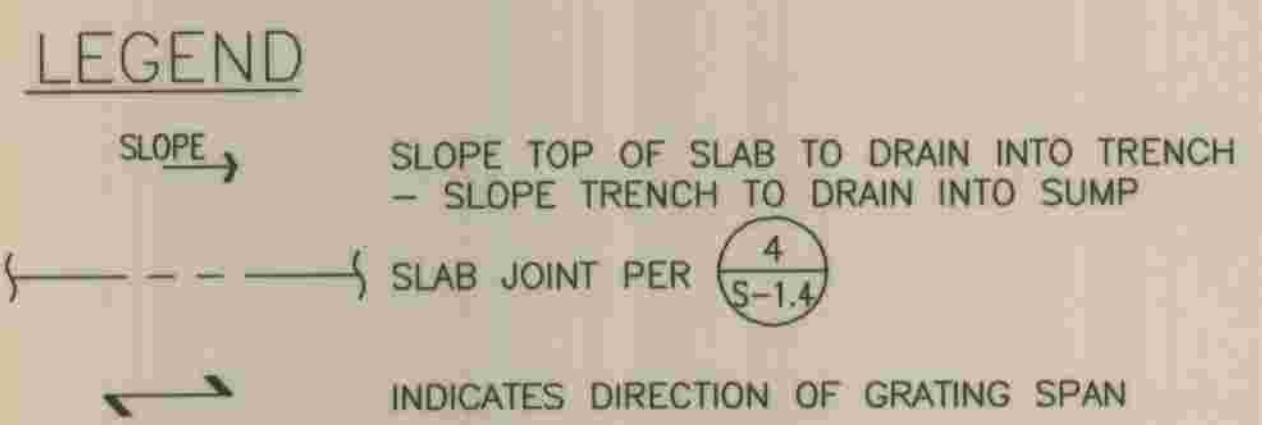
PLANS PREPARED BY
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CONSULTING STRUCTURAL ENGINEERS
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SAN DIEGO, CA 92127
PHONE (858) 673-8418
FAX (858) 673-8418
Devin A. Brown 5/28/09
DEVIN A. BROWN DATE

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- NOTES:**
- REFER TO MECH'L DWGS FOR ALL ELEVATIONS, DIMENSIONS, AND OPENINGS NOT SHOWN.
 - REFER TO SHEET S-1.1 & S-1.2 FOR GENERAL NOTES AND SHEET S-1.2, S-1.3, S-1.4 AND S-1.5 FOR TYPICAL DETAILS.
 - ALL INTERIOR SURFACES OF THE WET WELL, EMERGENCY STORAGE TANK, DRY WELL SUMP AND COLLECTION CHANNEL MUST BE COATED/COVERED PER THE SPEC SECT'S 09902 & 09905.
 - FOR ADDITIONAL HORIZONTAL WALL REINF SEE PLAN DETAIL 8
S-1.5
 - FOR INSTALLATION OF CONDUITS EMBEDDED IN CONCRETE WALLS OR STRUCTURAL SLABS SEE DETAILS 2
S-1.5 & 3
S-1.5



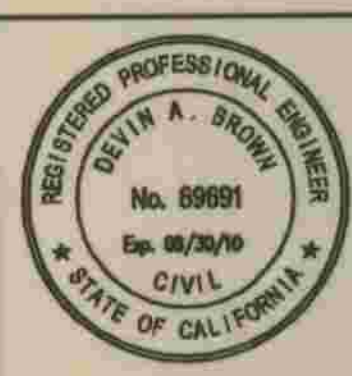
TYP DETAILING NOTE
N.T.S.

THIS IS A GRAPHIC REPRESENTATION OF A BAR LAP WHEN BARS ARE IN THE SAME PLANE. NO HICKEY OR BAR BENDS ARE REQUIRED. SEE NOTES ON SHEET S-1.1 FOR LAP LENGTHS.

NOTE:
FOR ADDITIONAL CORNER BAR REINFORCEMENT SEE B
S-1.5

FOUNDATION PLAN
3/8" = 1'-0"

REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.



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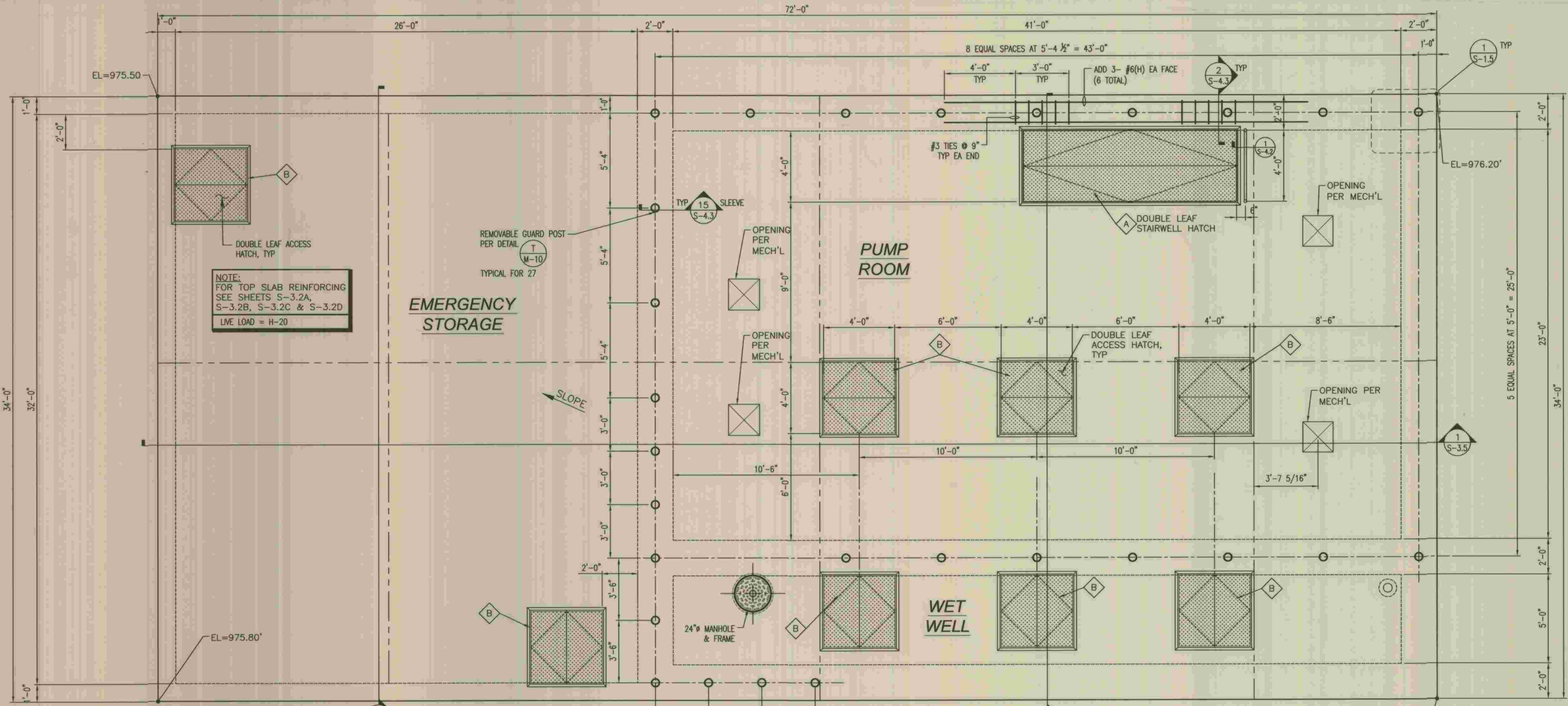
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LOS ANGELES COUNTY
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**HANCOCK PARKWAY
SEWAGE LIFT STATION (TEMPORARY)**
PARCEL MAP NO. 26363
PUMP BUILDING FOUNDATION PLAN

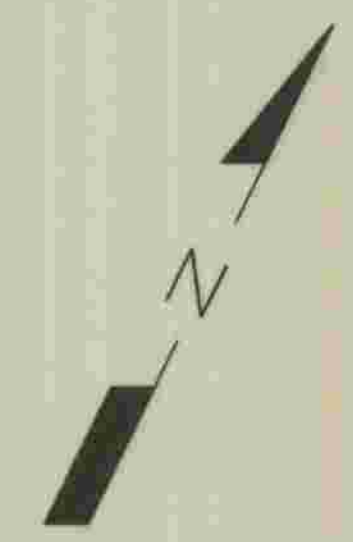
SPEC. NO.	S-3.1
SHEET	19
OF	61
DRAWING NO.	SHEETS



- NOTES:**
1. REFER TO ARCH'L AND MECH'L DWGS FOR ALL ELEVATIONS, DIMENSIONS, AND OPENINGS NOT SHOWN.
 2. REFER TO SHEET S-1.1 & S-1.2 FOR GENERAL NOTES AND SHEET S-1.2, S-1.3, S-1.4 AND S-1.5 FOR TYPICAL DETAILS.
 3. FOR ADDITIONAL HORIZONTAL REINF IN CONC WALL SEE PLAN DETAIL (B/S-1.5)
 4. FOR INSTALLATION OF CONDUITS EMBEDDED IN CONCRETE WALLS OR STRUCTURAL SLABS SEE DETAILS (2/S-1.5) & (3/S-1.5)
 5. DO NOT PLACE BACKFILL AGAINST PUMP STATION WALL UNTIL TOP SLAB IS IN PLACE AND HAS ACHIEVED ITS 28-DAY COMPRESSIVE STRENGTH.

- LEGEND**
- (---) SLAB JOINT PER (6/S-1.4)
 - (A) 4'-0" x 12'-0" ALUMINUM HATCH PER MECHANICAL
 - (B) 4'-0" x 4'-0" ALUMINUM HATCH PER MECHANICAL

TOP SLAB PLAN
3/8" = 1'-0"



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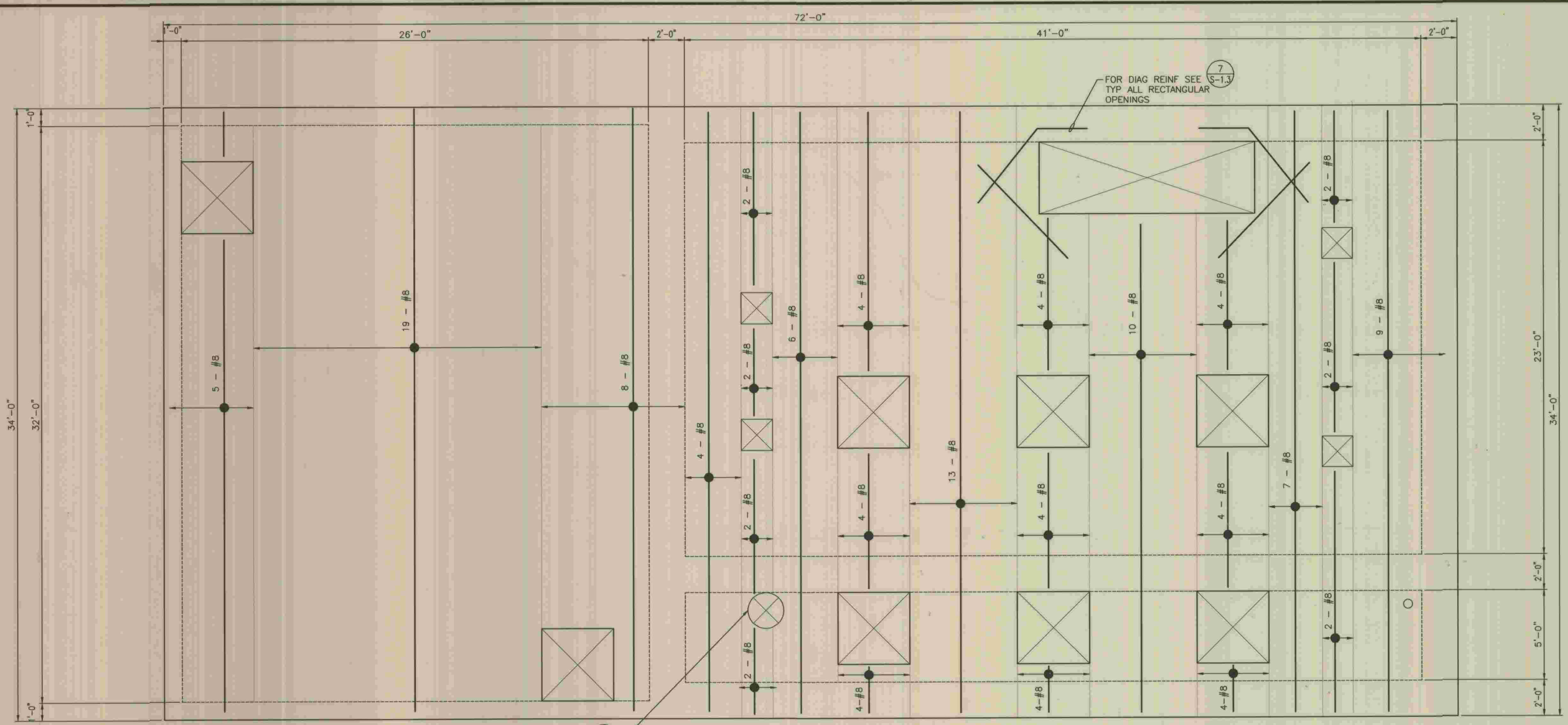
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REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.

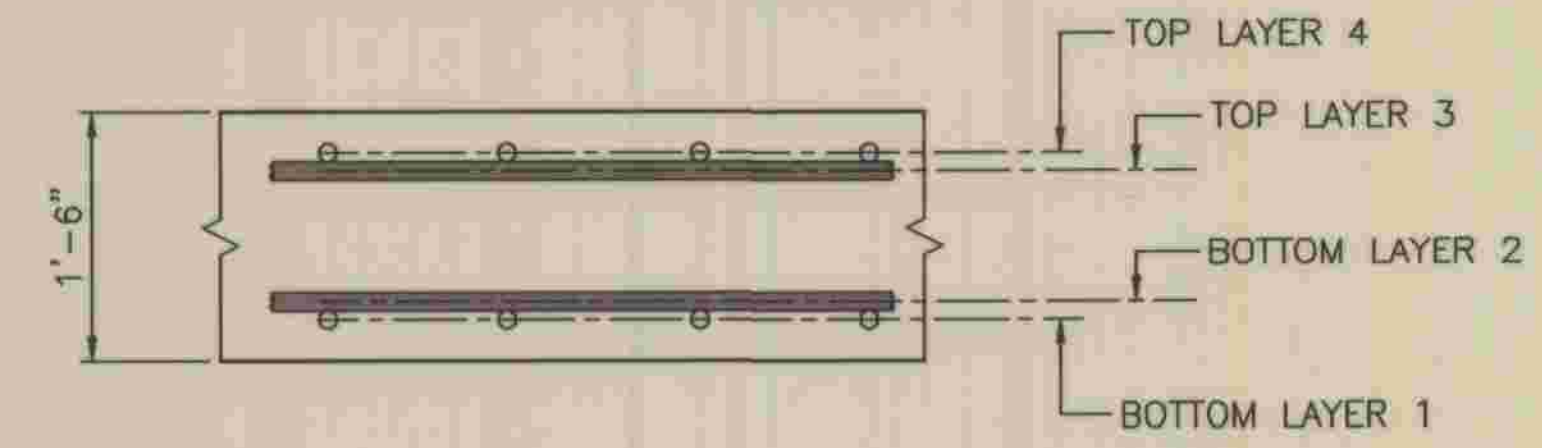
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS	SPEC. NO.	S-3.2
HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PARCEL MAP NO. 26363	OF	20
PUMP BUILDING TOP SLAB PLAN	DRAWING NO.	61
		SHEETS



FOR DIAG REINF SEE TYP ALL CIRCULAR OPENINGS

3
S-1.3

REINFORCING LEGEND



BOTTOM BARS - LAYER 1

TOP SLAB REINFORCING PLAN

3/8" = 1'-0"



REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.



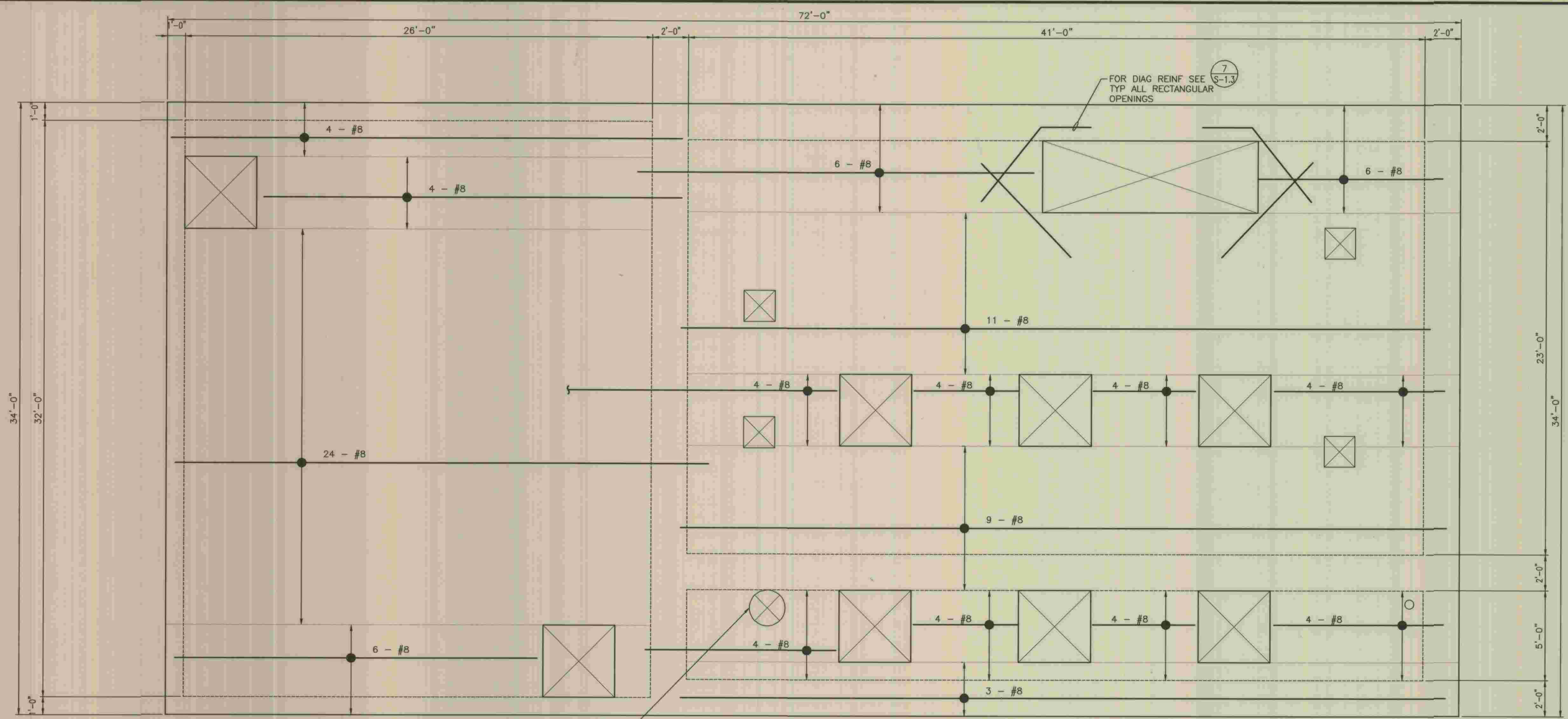
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DEVN A. BROWN DATE 5/28/09

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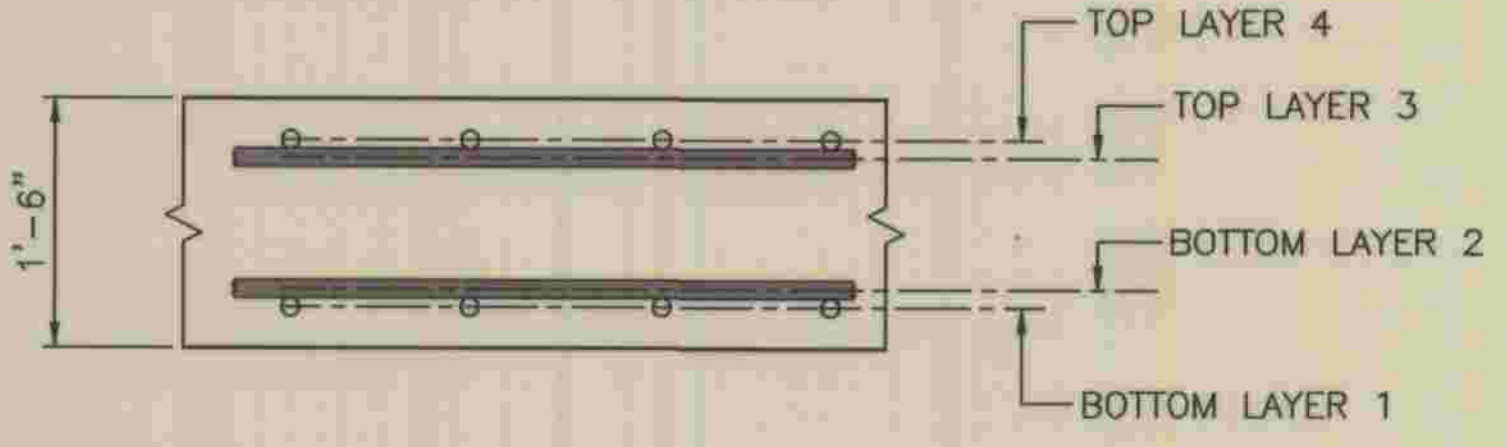
LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS
HANCOCK PARKWAY
SEWAGE LIFT STATION (TEMPORARY)
PARCEL MAP NO. 26363
TOP SLAB REINFORCING PLAN A

S-3.2A	SPEC. NO.	SHEET
		21
	OF	61
	DRAWING NO.	SHEETS



FOR DIAG REINF SEE
TYP ALL CIRCULAR
OPENINGS

REINFORCING LEGEND

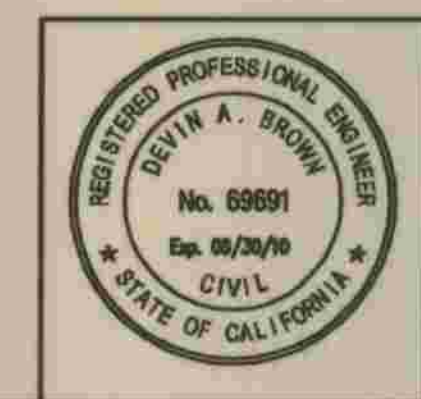


BOTTOM BARS - LAYER 2

TOP SLAB REINFORCING PLAN
3/8" = 1'-0"



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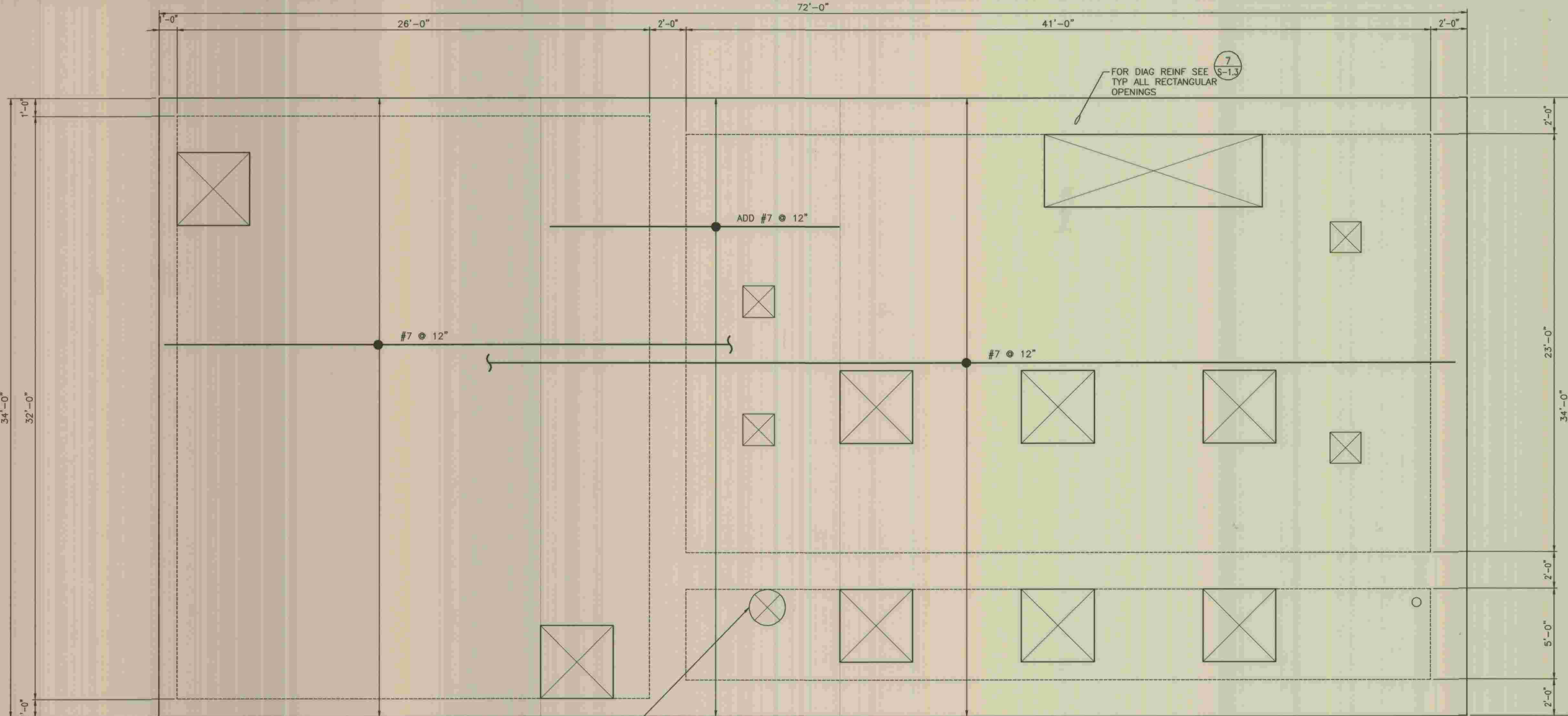
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LOS ANGELES COUNTY
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HANCOCK PARKWAY
SEWAGE LIFT STATION (TEMPORARY)
PARCEL MAP NO. 26363
TOP SLAB REINFORCING PLAN B

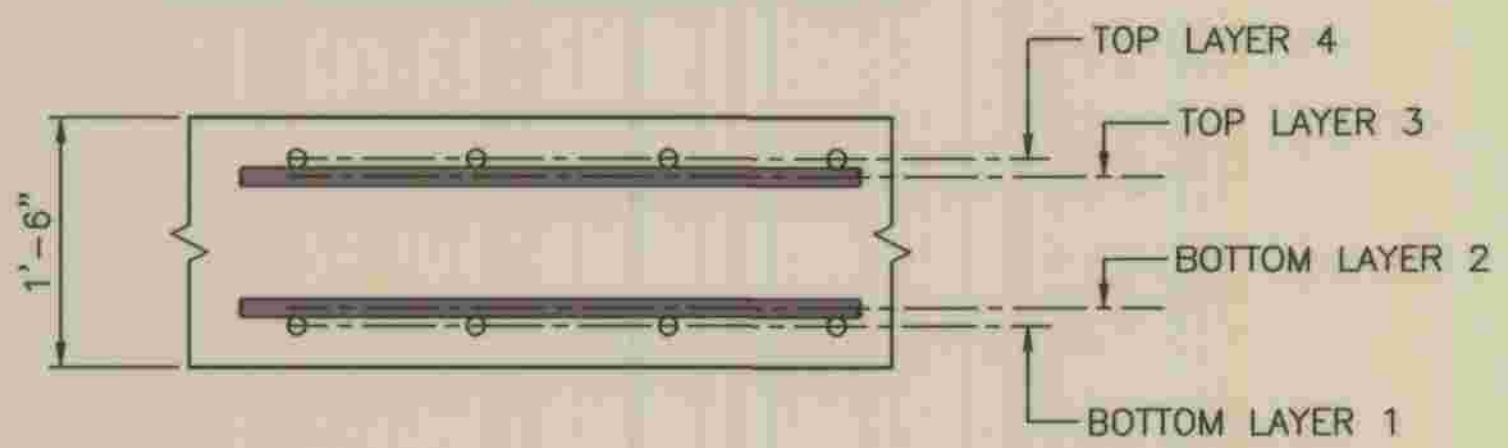
S-3.2B
SHEET
22
OF
61
DRAWING NO.
SHEETS



FOR DIAG REINF SEE TYP ALL CIRCULAR OPENINGS

3
S-1.3

REINFORCING LEGEND



TOP BARS - LAYER 3

TOP SLAB REINFORCING PLAN
3/8" = 1'-0"



REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.



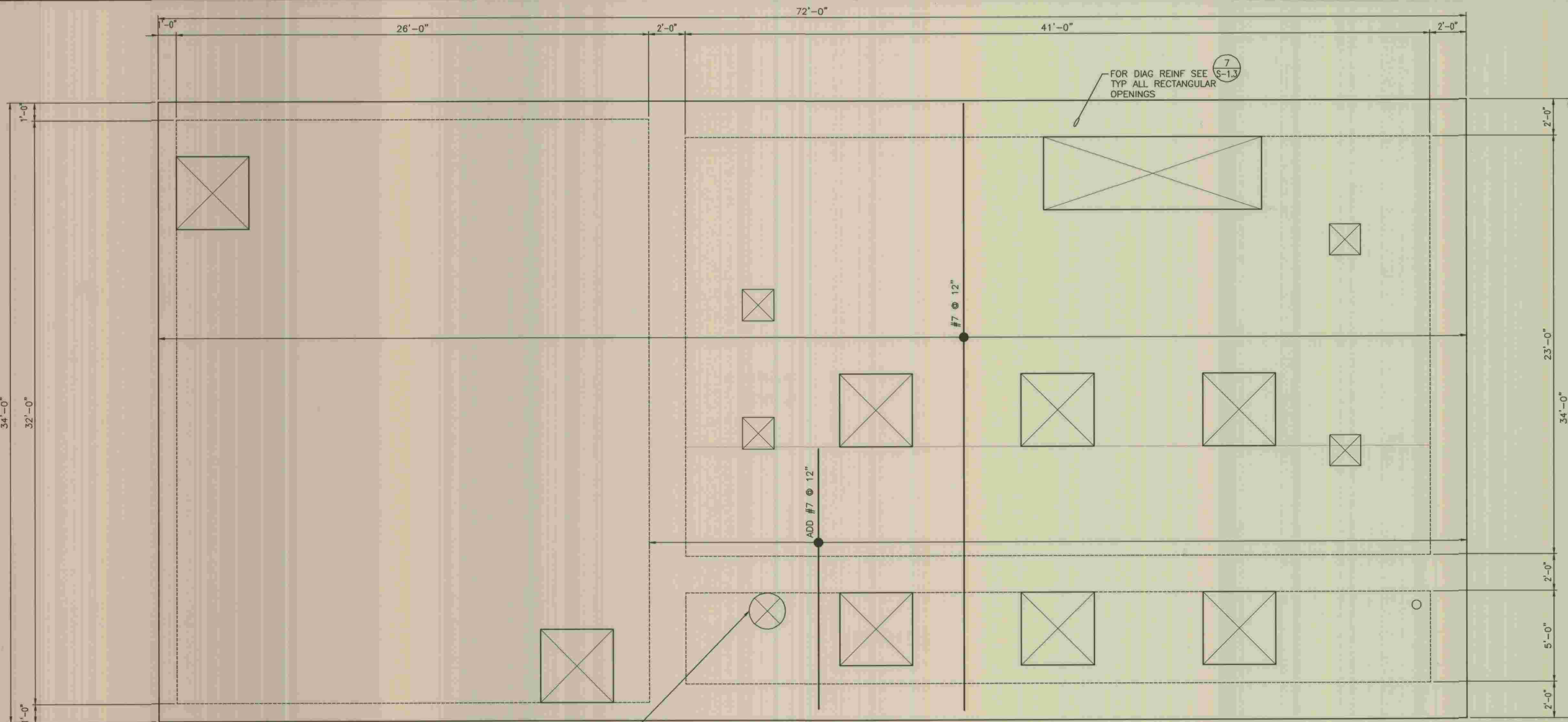
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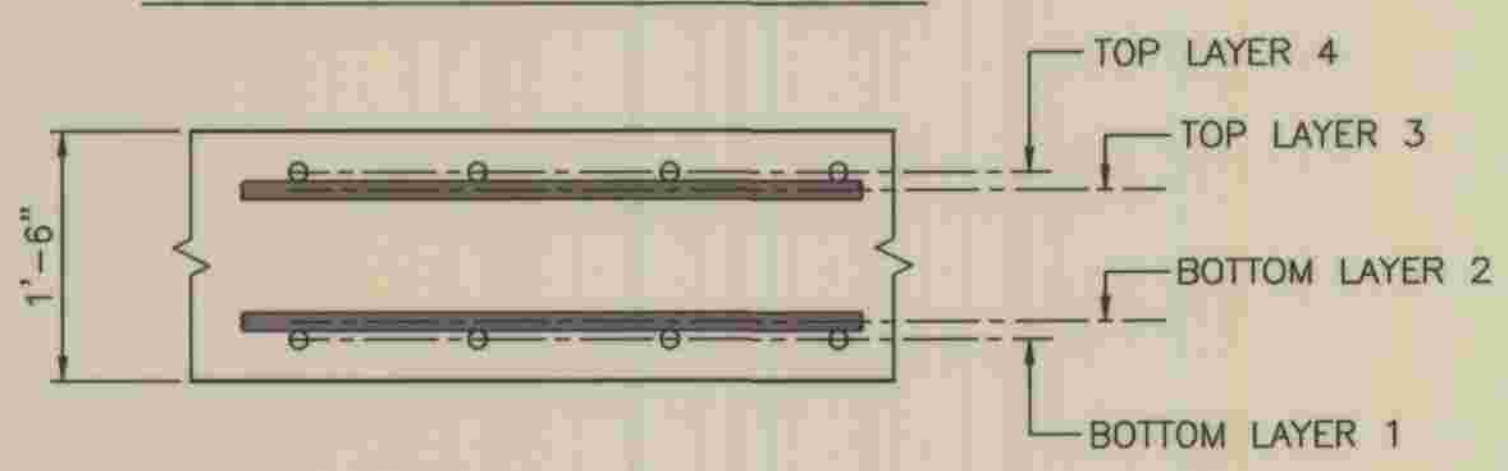
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HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PARCEL/MAP NO. 26363	OF	61
TOP SLAB REINFORCING PLAN C	DRAWING NO.	
		SHEETS



FOR DIAG REINF SEE 3 S-1.3 TYP ALL CIRCULAR OPENINGS

REINFORCING LEGEND



TOP BARS - LAYER 4

TOP SLAB REINFORCING PLAN
3/8" = 1'-0"



REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.



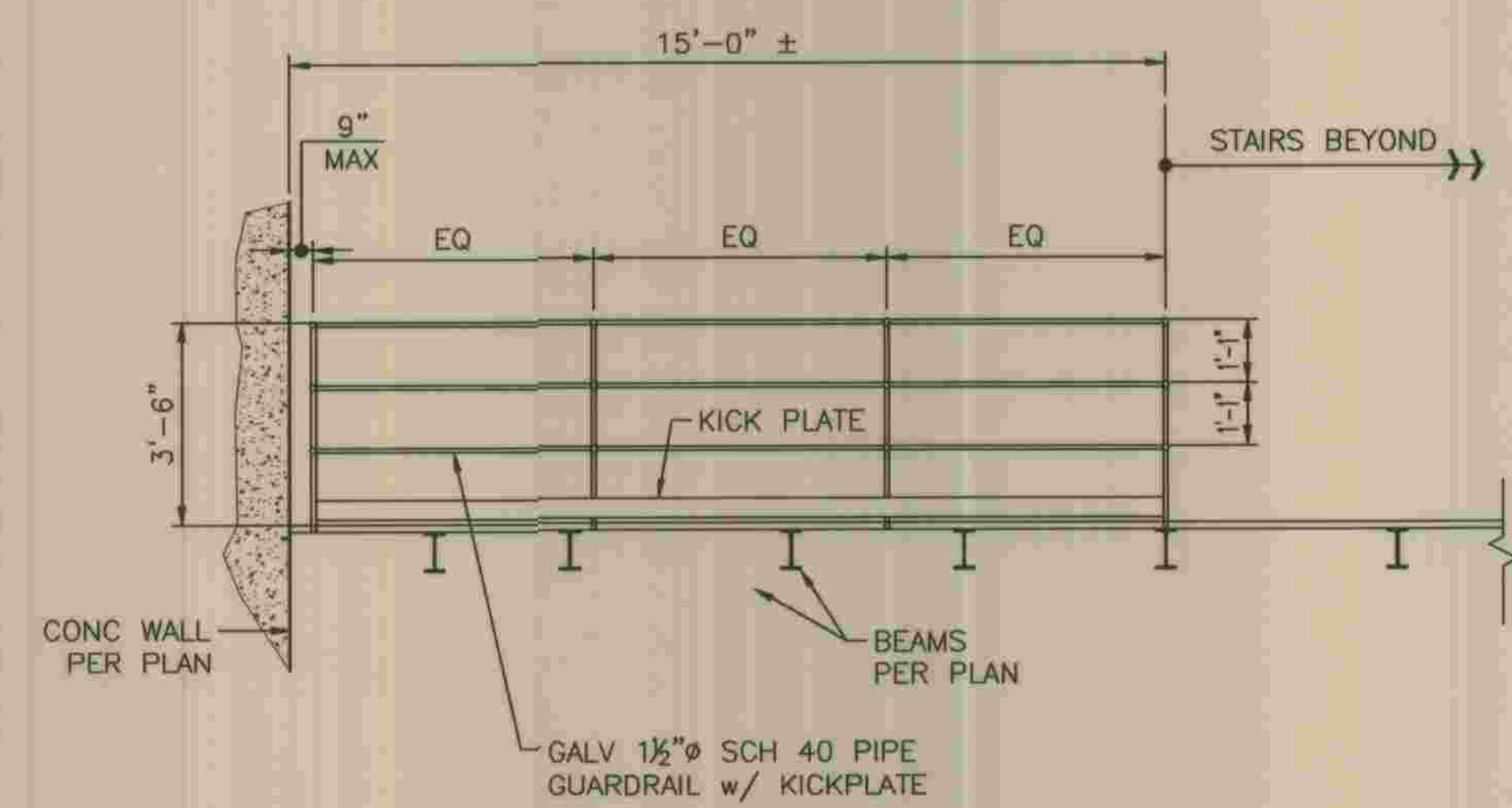
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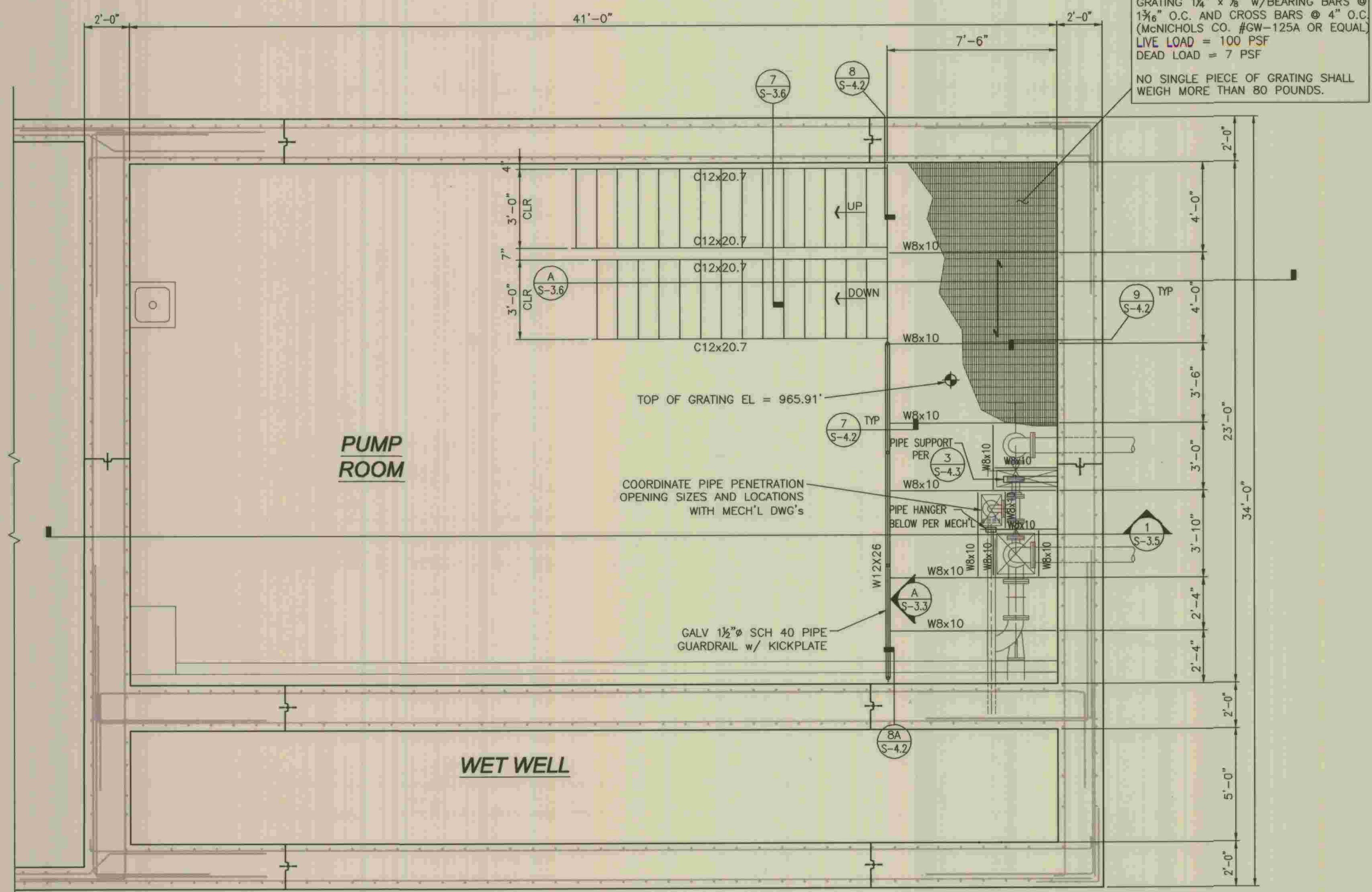
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LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS	SPEC. NO.	SHEET
HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PARCEL MAP NO. 26363	OF	24
TOP SLAB REINFORCING PLAN D	DRAWING NO.	61
		SHEETS

S-3.2D



GUARD RAIL ELEVATION
3/8" = 1'-0"



- NOTES:**
1. REFER TO ARCH'L AND MECH'L DWGS FOR ALL ELEVATIONS, DIMENSIONS, AND OPENINGS NOT SHOWN.
 2. REFER TO SHEET S-1.1 & S-1.2 FOR GENERAL NOTES AND SHEET S-1.2, S-1.3, S-1.4 AND S-1.5 FOR TYPICAL DETAILS.

LEGEND
← → INDICATES DIRECTION OF GRATING SPAN

PUMP ROOM MEZZANINE PLAN
3/8" = 1'-0"

REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.



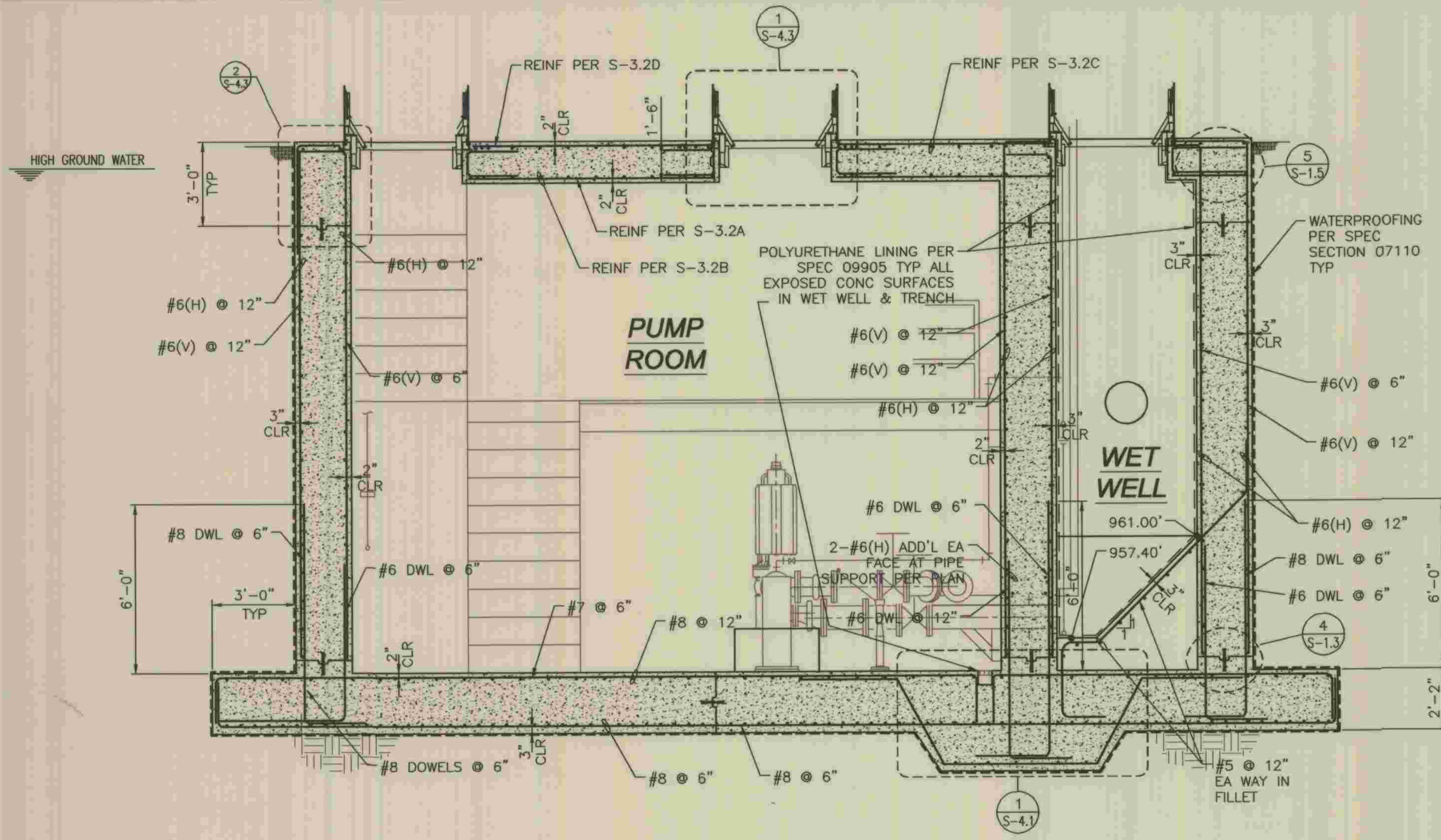
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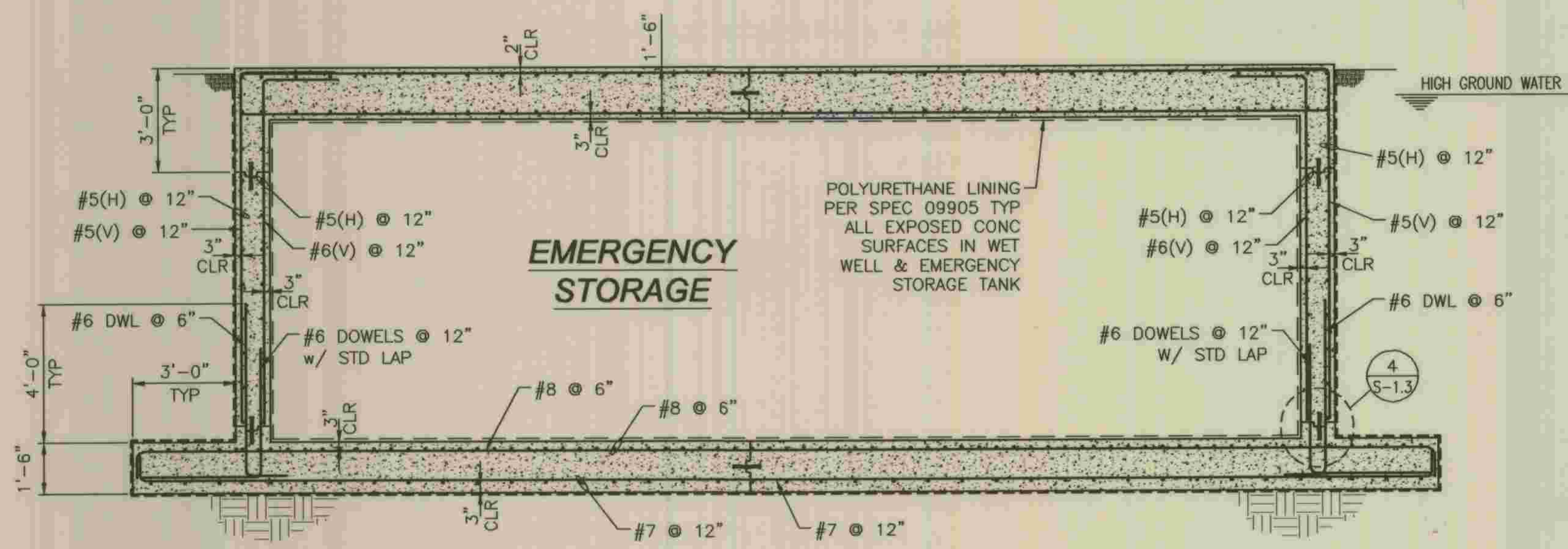
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DEPARTMENT OF PUBLIC WORKS
HANCOCK PARKWAY
SEWAGE LIFT STATION (TEMPORARY)
PARCEL MAP NO. 26363
PUMP BUILDING MEZZANINE PLAN

S-3.3	SHEET
25	OF
61	SHEETS



PUMP STATION SECTION
 $\frac{3}{8}'' = 1'-0''$ 1
S-3.4

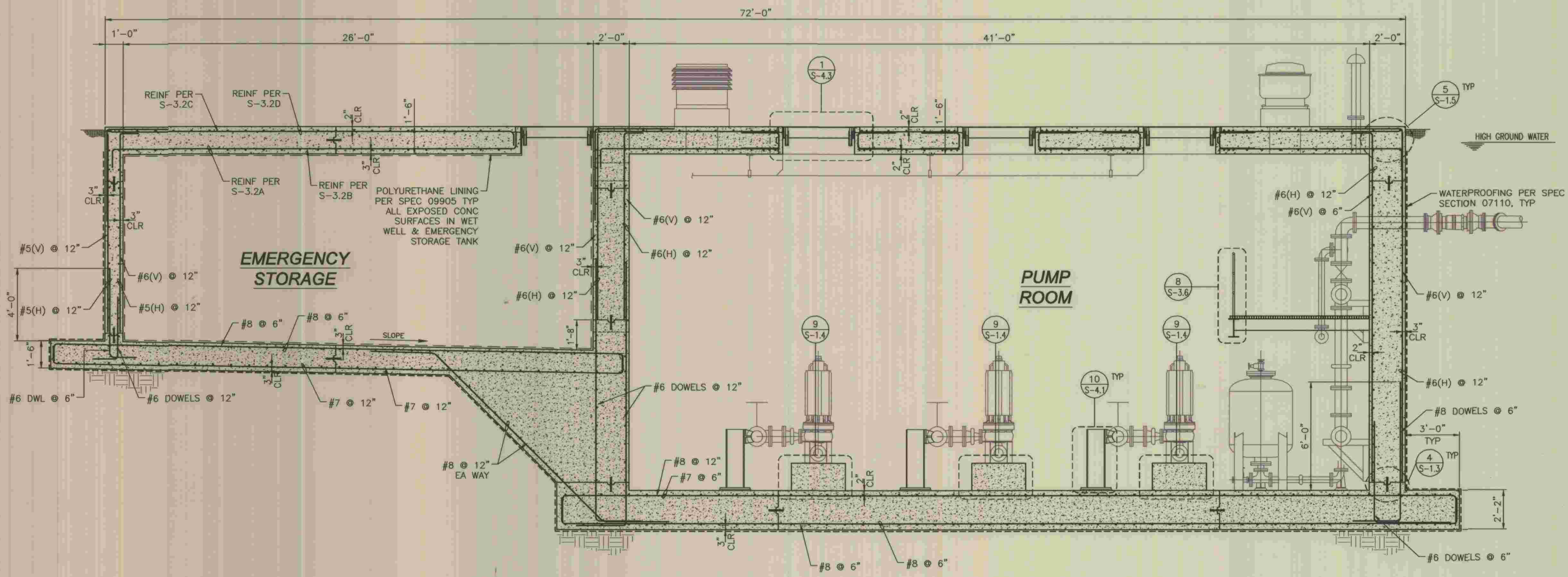


PUMP STATION SECTION
 $\frac{3}{8}'' = 1'-0''$ 2
S-3.4

NOTE:
 FOR ADD'L CORNER BAR REINFORCEMENT SEE 8
S-1.5

REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.

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				NO.	DATE	DRAWN BY	CHECK BY										
<p>HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PARCEL MAP NO. 26363</p>	<p>JOB NO.</p>	<p>26</p>															
<p>PUMP BUILDING SECTION</p>							<p>DRAWING NO.</p>	<p>8</p>	<p>OF</p>								
							<p>8</p>	<p>61</p>	<p>SHEETS</p>								

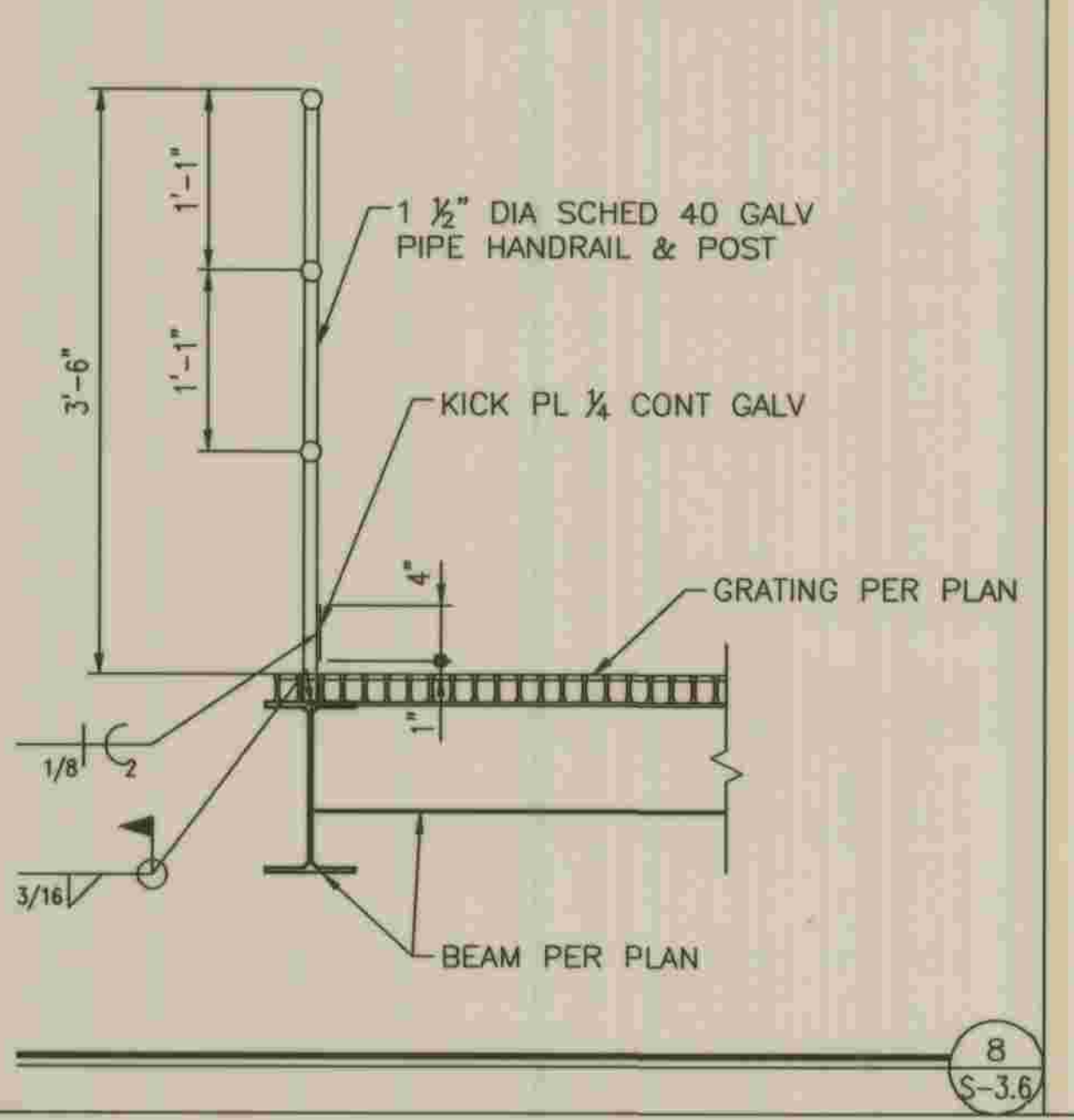
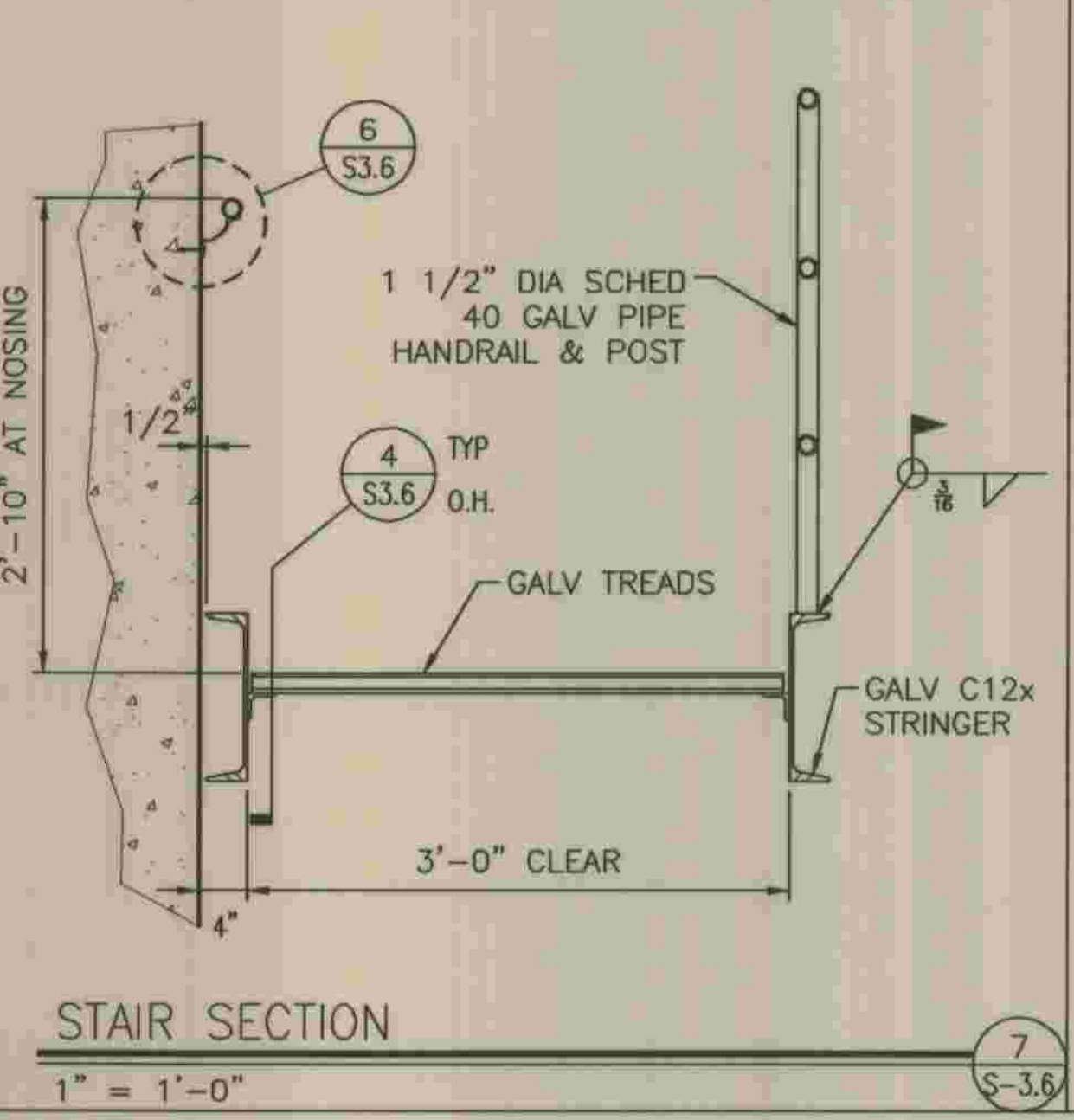
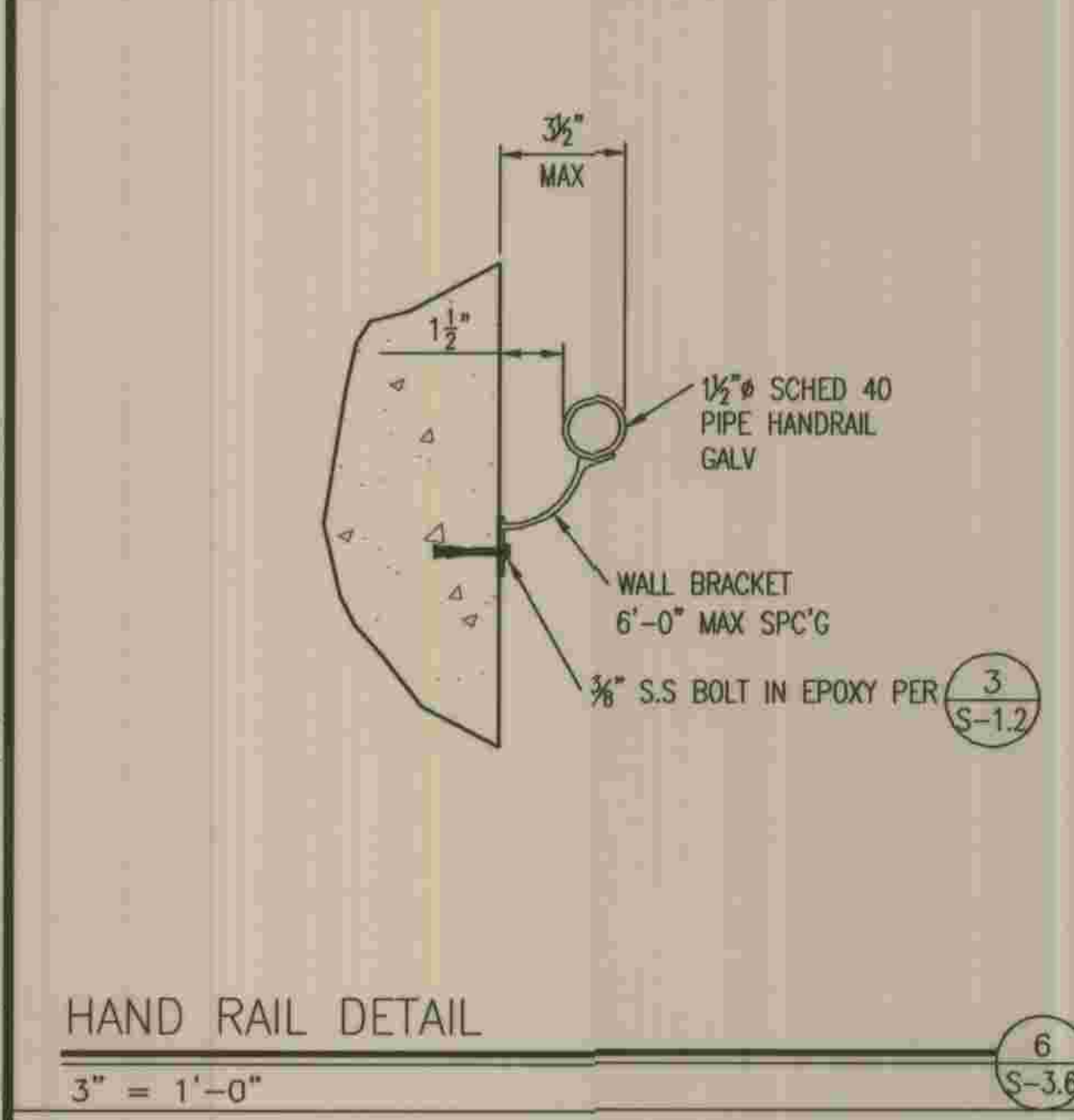
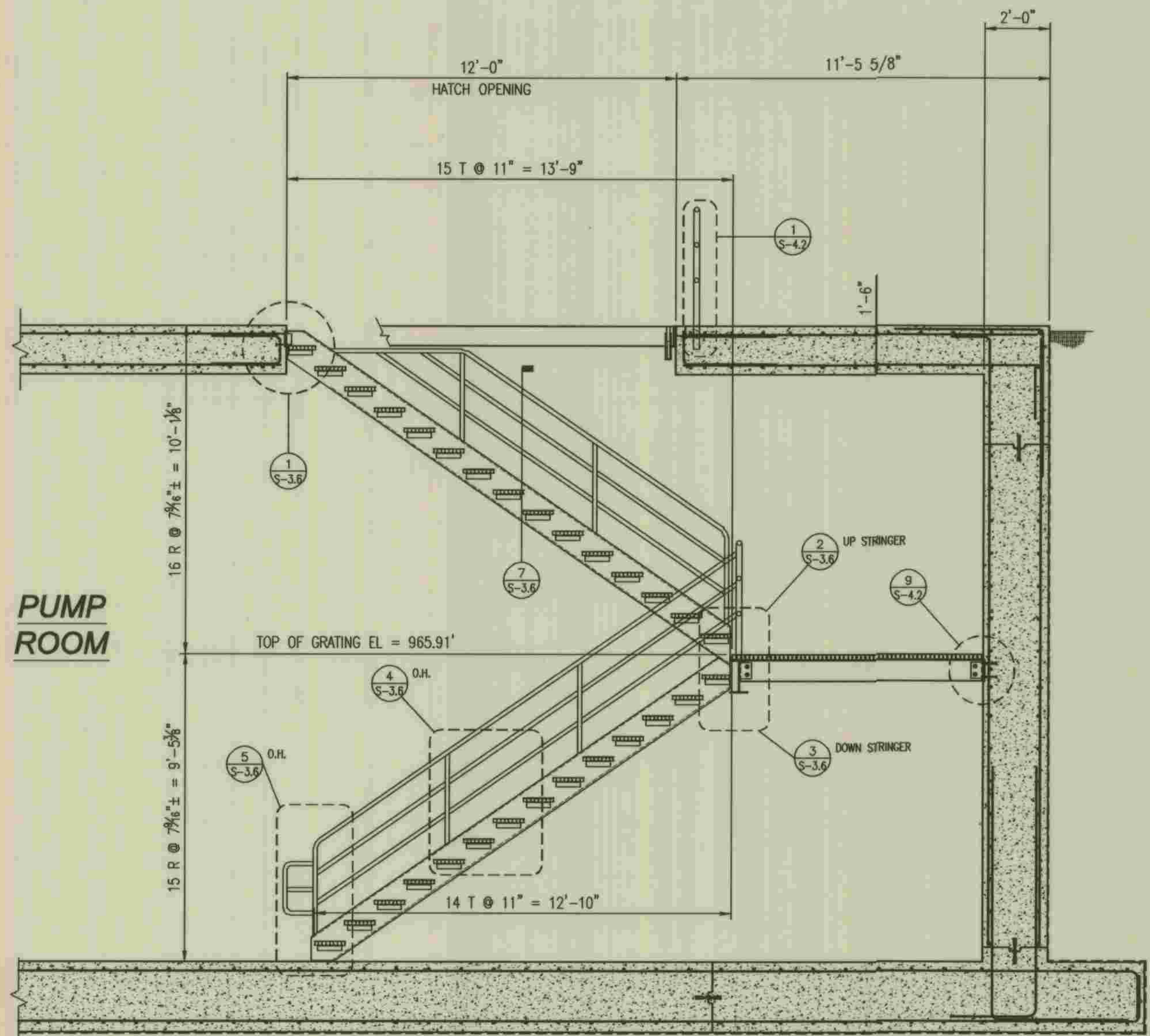
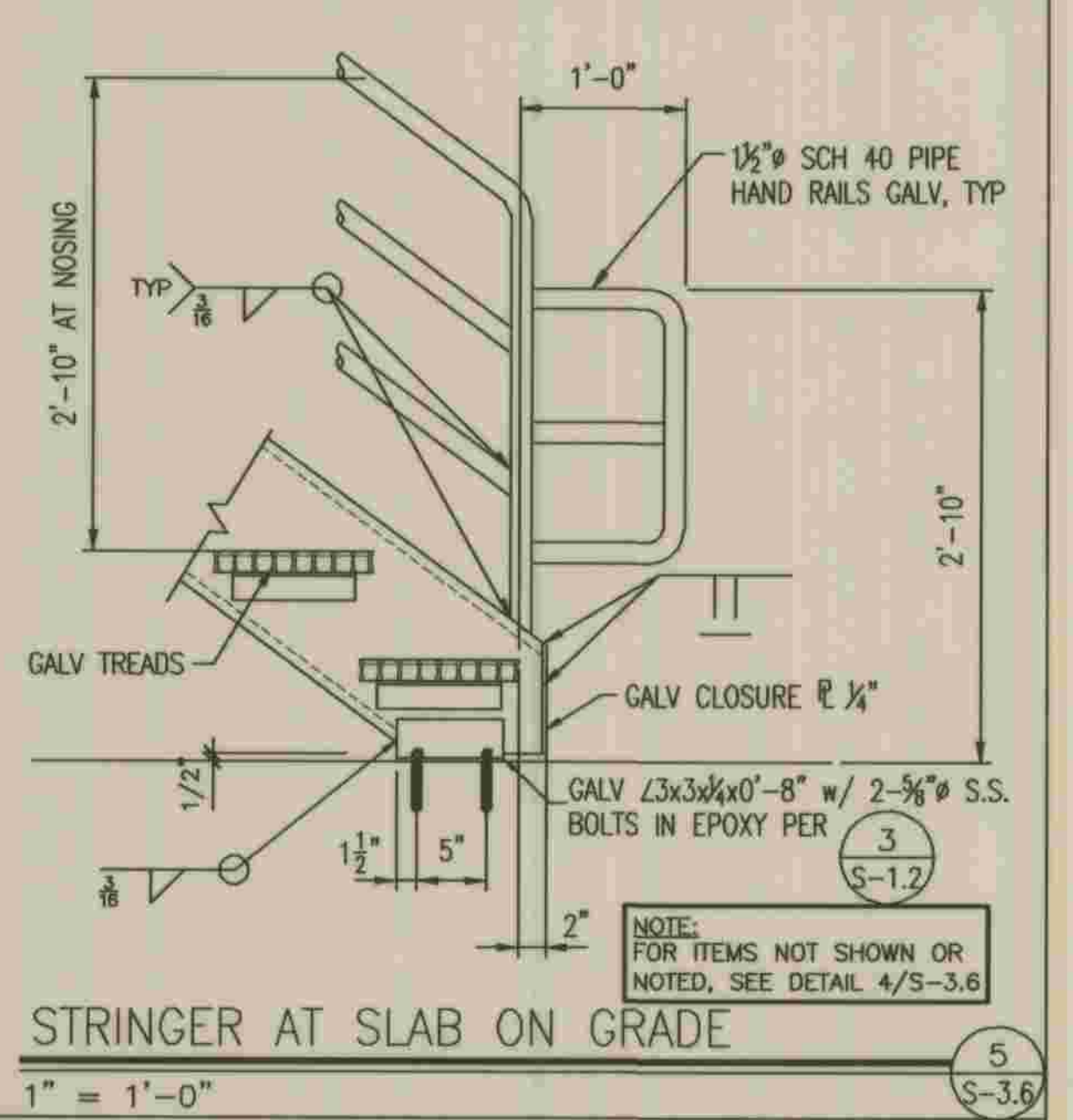
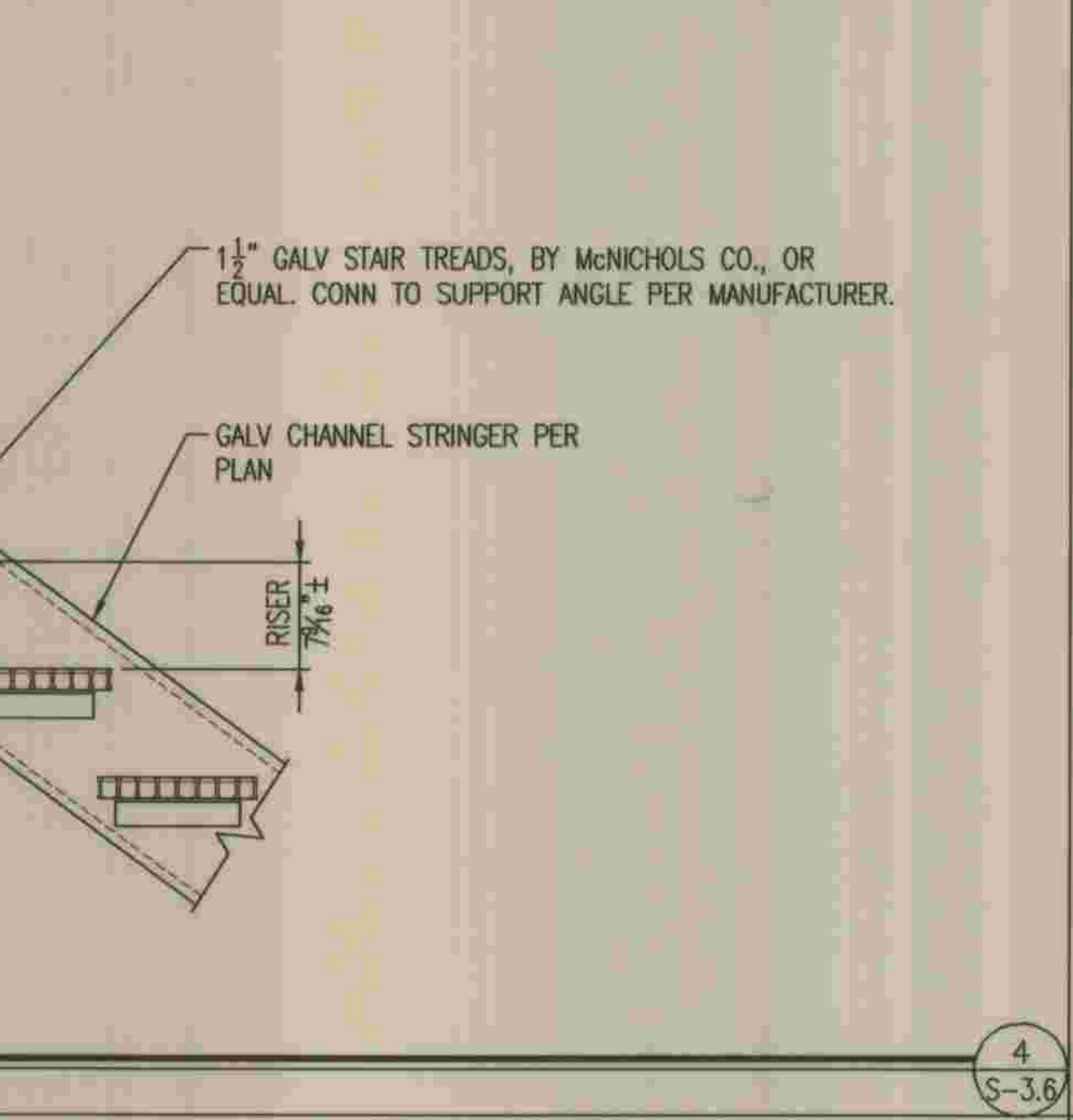
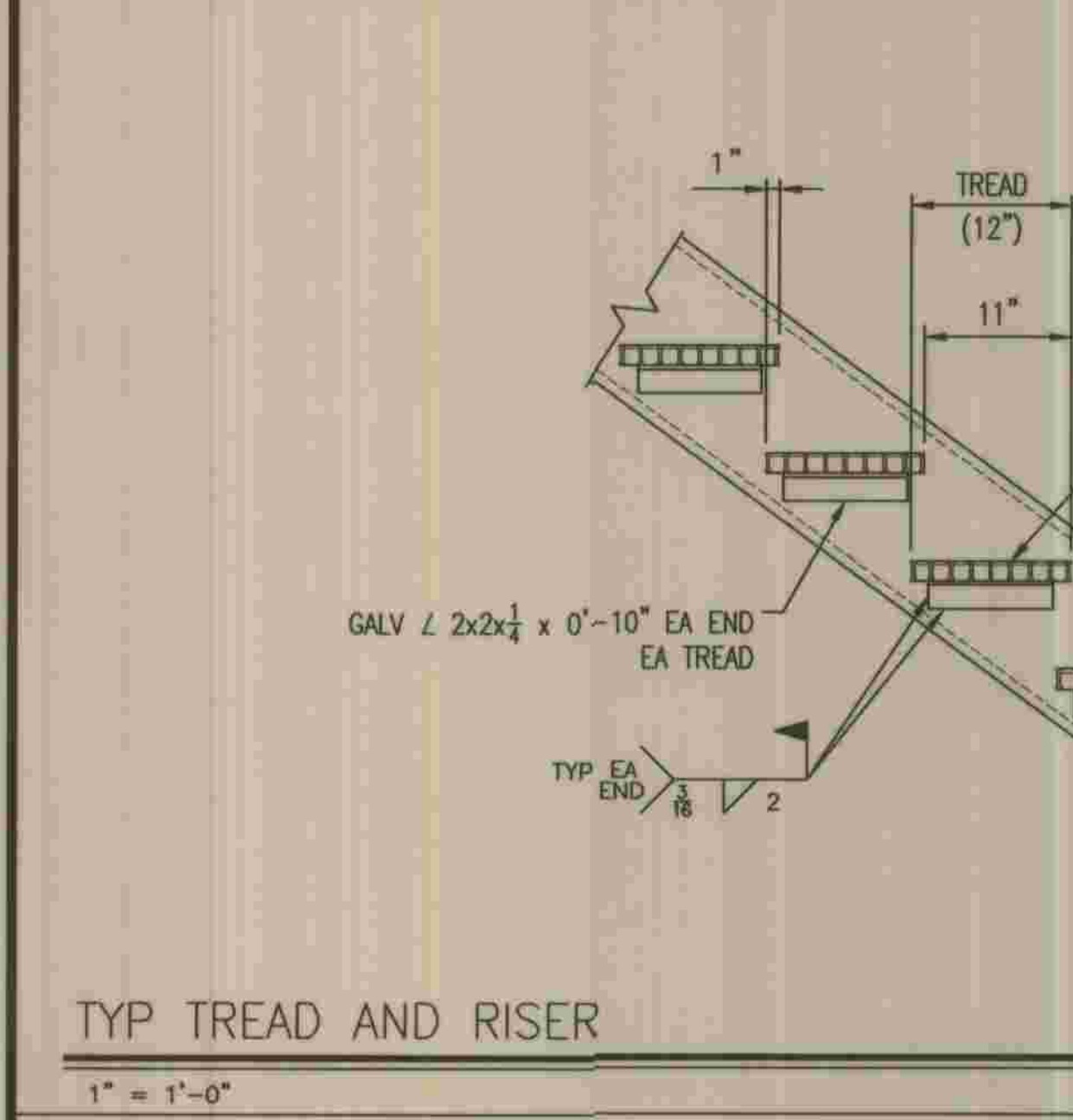
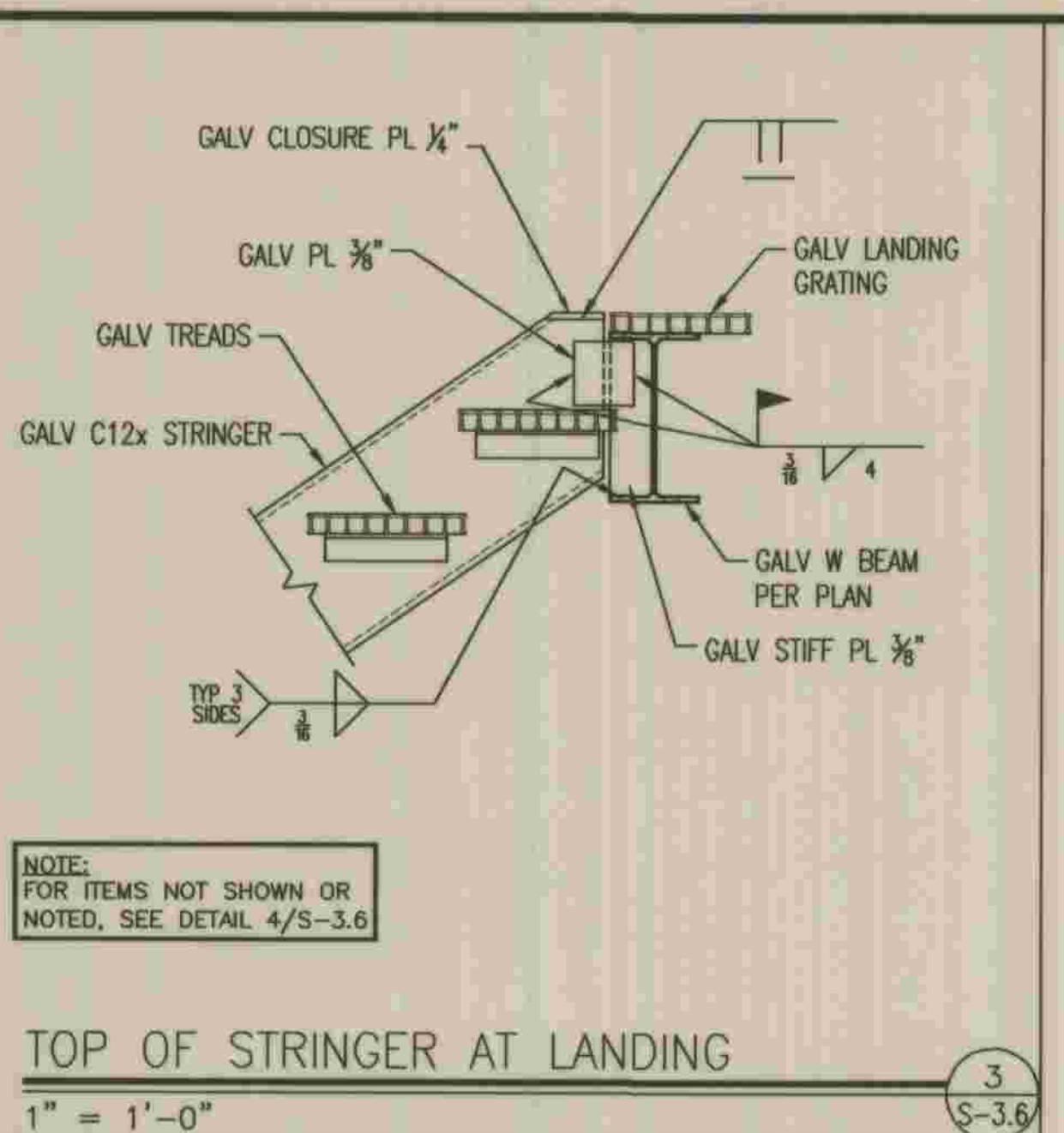
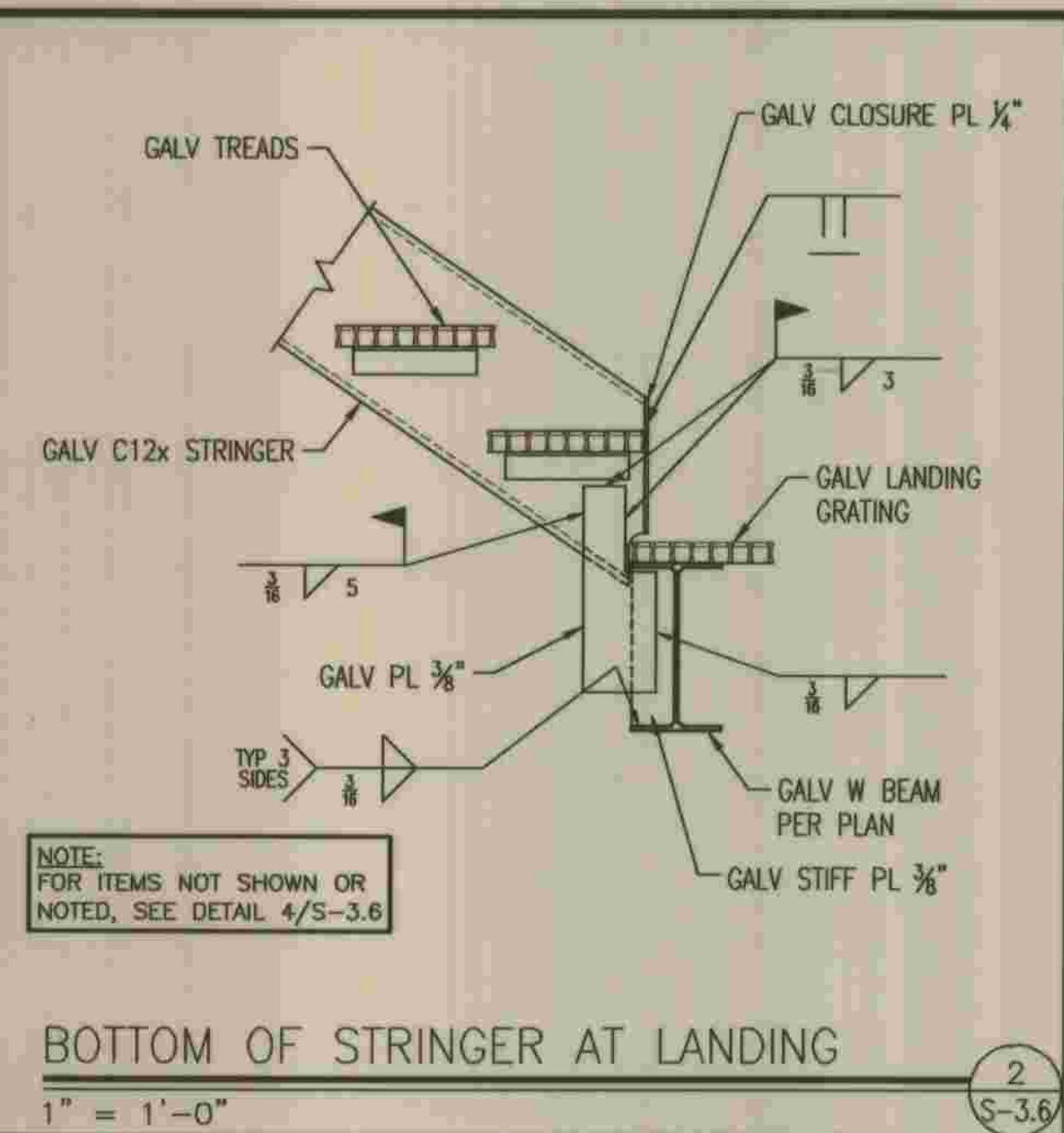
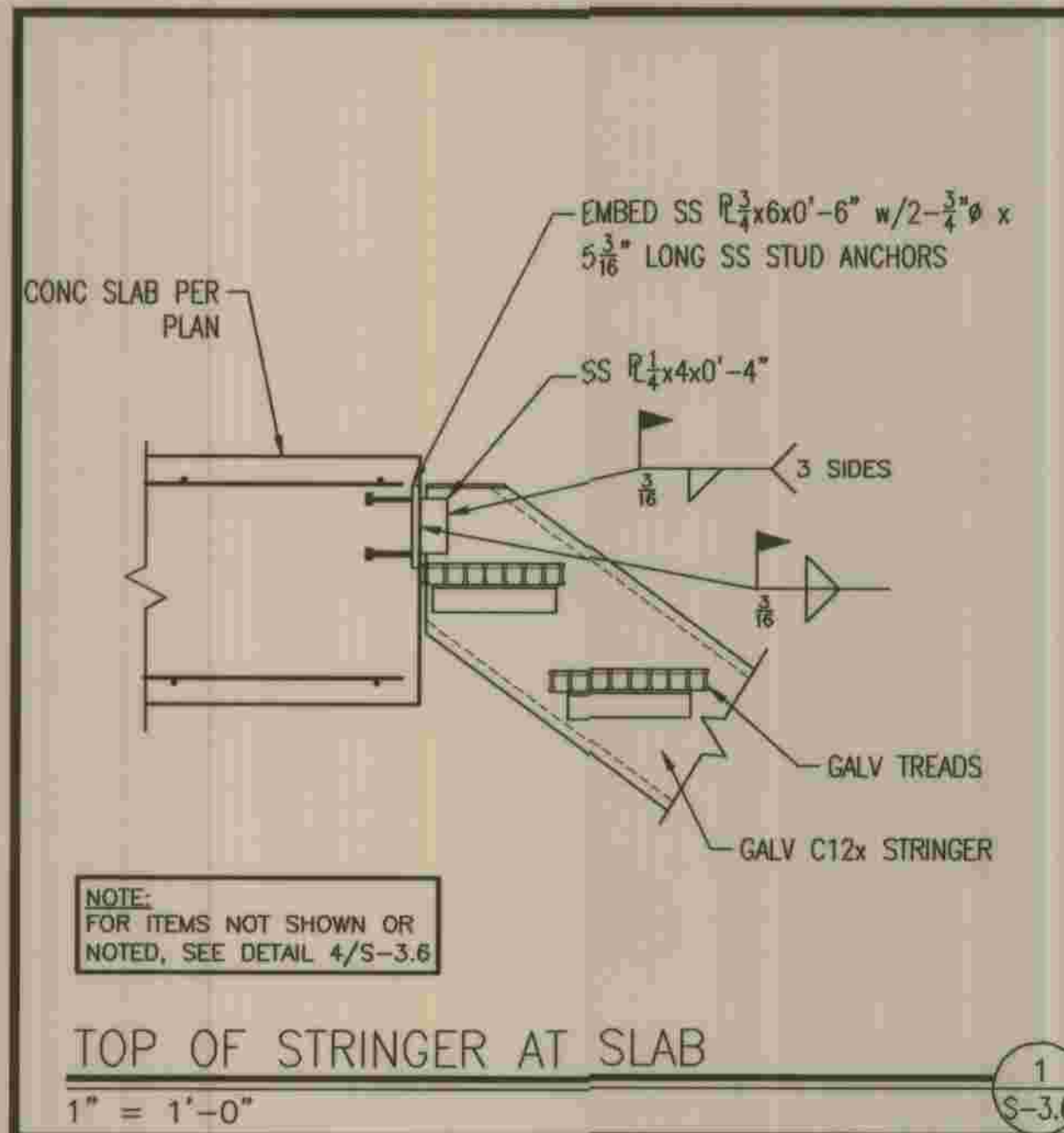


PUMP STATION SECTION
 3/8" = 1'-0" 1
S-3.5

NOTE:
 FOR ADD'L CORNER BAR REINFORCEMENT SEE 8
S-1.5

\\SANDEGO\PROJECTS\071058\1-DWG\071058-53-5-DWG 5/28/2009 8:38:12 AM

	PLANS PREPARED BY R₂H ENGINEERING, INC. CONSULTING STRUCTURAL ENGINEERS 17150 VIA DEL CAMPO, SUITE 306 SAN DIEGO, CA 92127 PHONE (858) 673-8416 FAX (858) 673-8418 <i>Devin A. Brown</i> 5/28/09 DEVIN A. BROWN DATE	DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY CHECKED <i>Peter Chang</i> 7-28-2009 DESIGN DIVISION DATE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>DATE</th> <th>DRAWN BY</th> <th>CHECK BY</th> <th>REVISION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	DRAWN BY	CHECK BY	REVISION						APPR'D BY APPR'D BY	REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.	S-3.5 SHEET 27 OF 61 SHEETS
				NO.	DATE	DRAWN BY	CHECK BY	REVISION								
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PARCEL MAP NO. 26363	SPEC. NO. OF JOB NO. DRAWING NO.	PUMP BUILDING SECTION														



S:\SANITARY\PROJECTS\07_07058\4-DWG\07058-S3-6.DWG 5/28/2009 8:36:39 AM

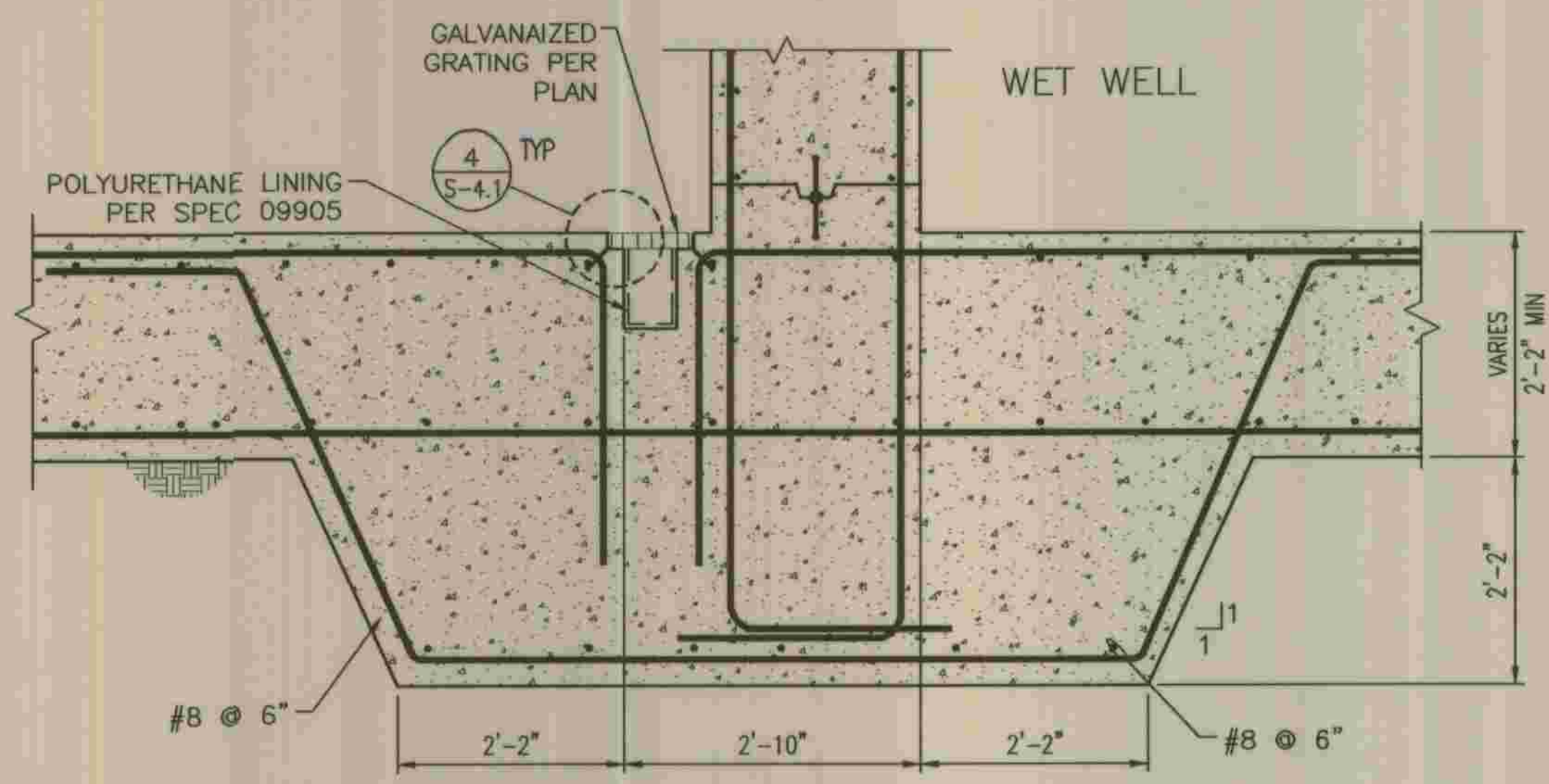


PLANS PREPARED BY
R2H ENGINEERING, INC.
CONSULTING STRUCTURAL ENGINEERS
17150 VIA DEL CAMPO, SUITE 308
SAN DIEGO, CA 92127
PHONE (858) 673-8416
FAX (858) 673-8416
Devin A. Brown 5/28/09
DEVIN A. BROWN DATE

DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY
CHECKED *Peter Chang* 7-28-2009
DESIGN/DIVISION DATE

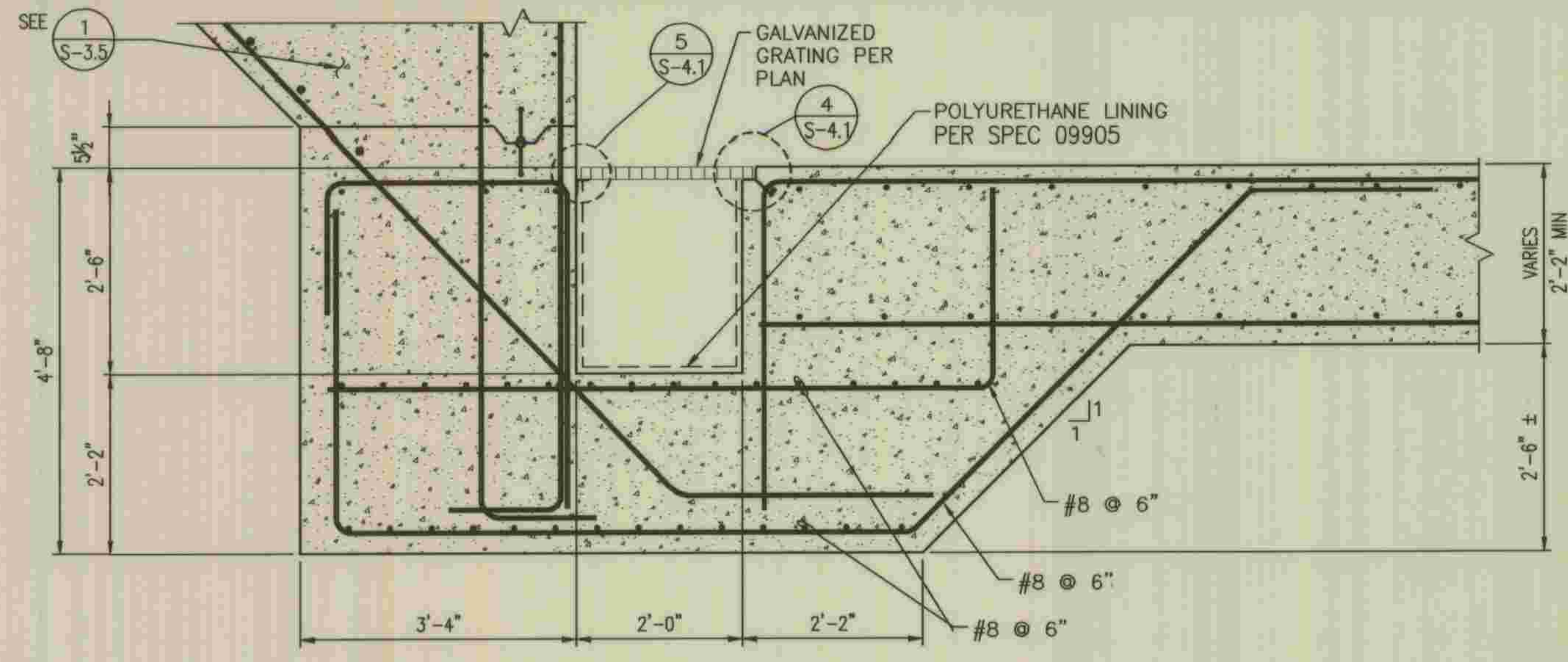
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REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.		S-3.6
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS	SPEC. NO.	SHEET
HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY)	OF	28
PARCEL MAP NO. 26363	JOB NO.	61
PUMP ROOM STAIR SECTION	DRAWING NO.	SHEETS



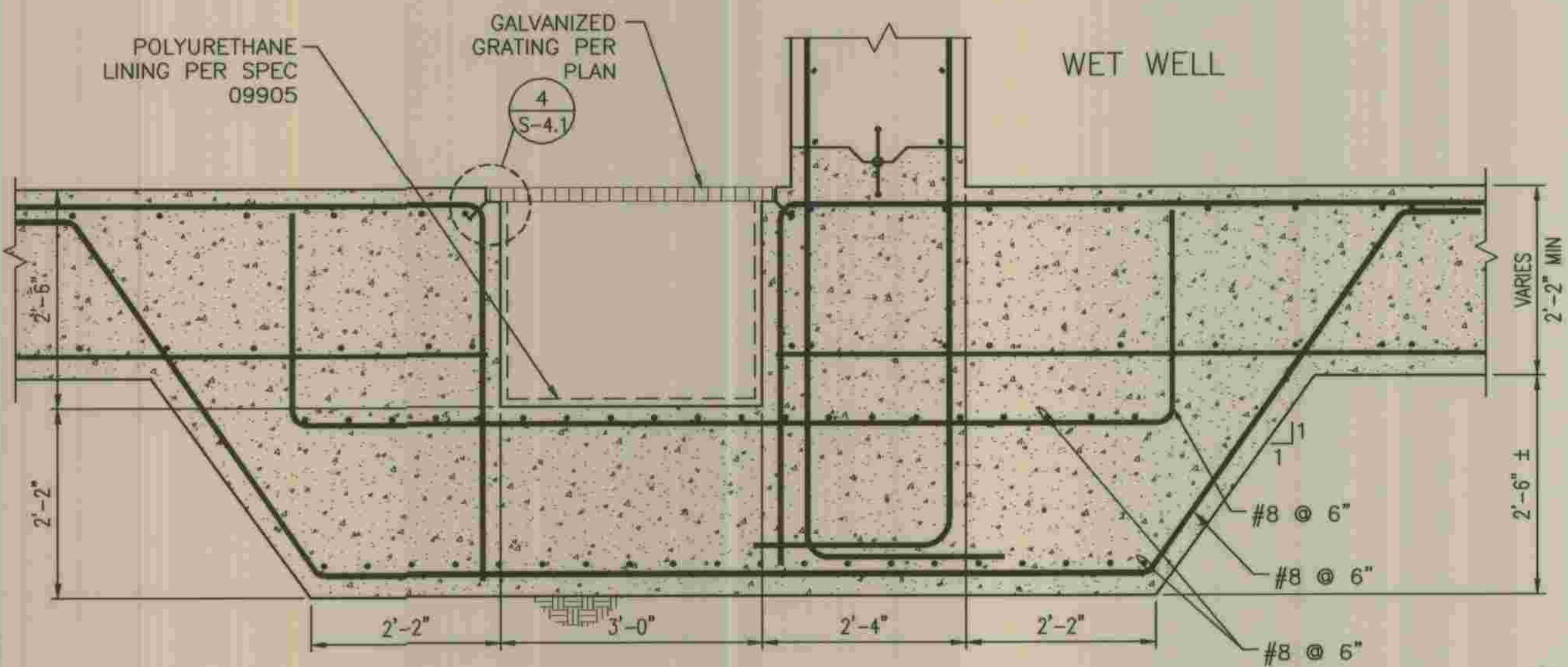
TRENCH DRAIN SECTION
SCALE: 3/4" = 1'-0"

1
S-4.1



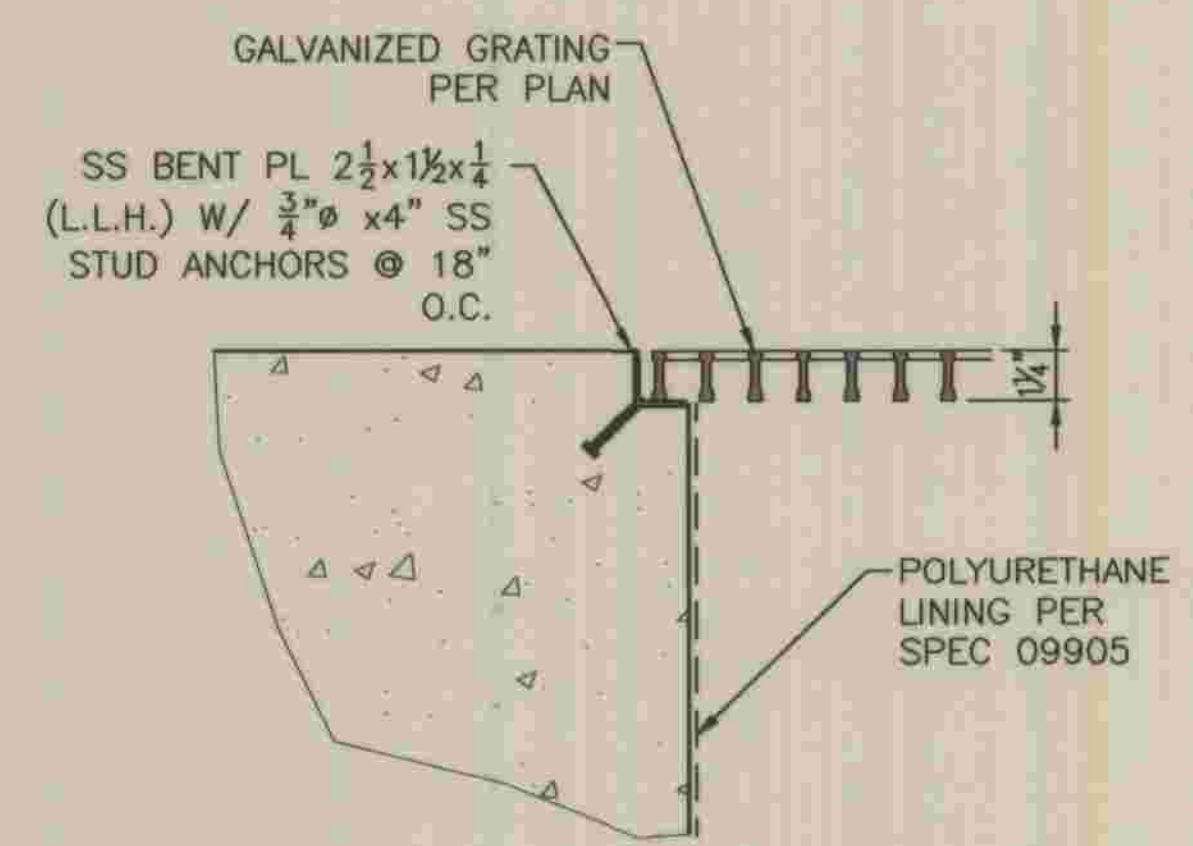
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2
S-4.1



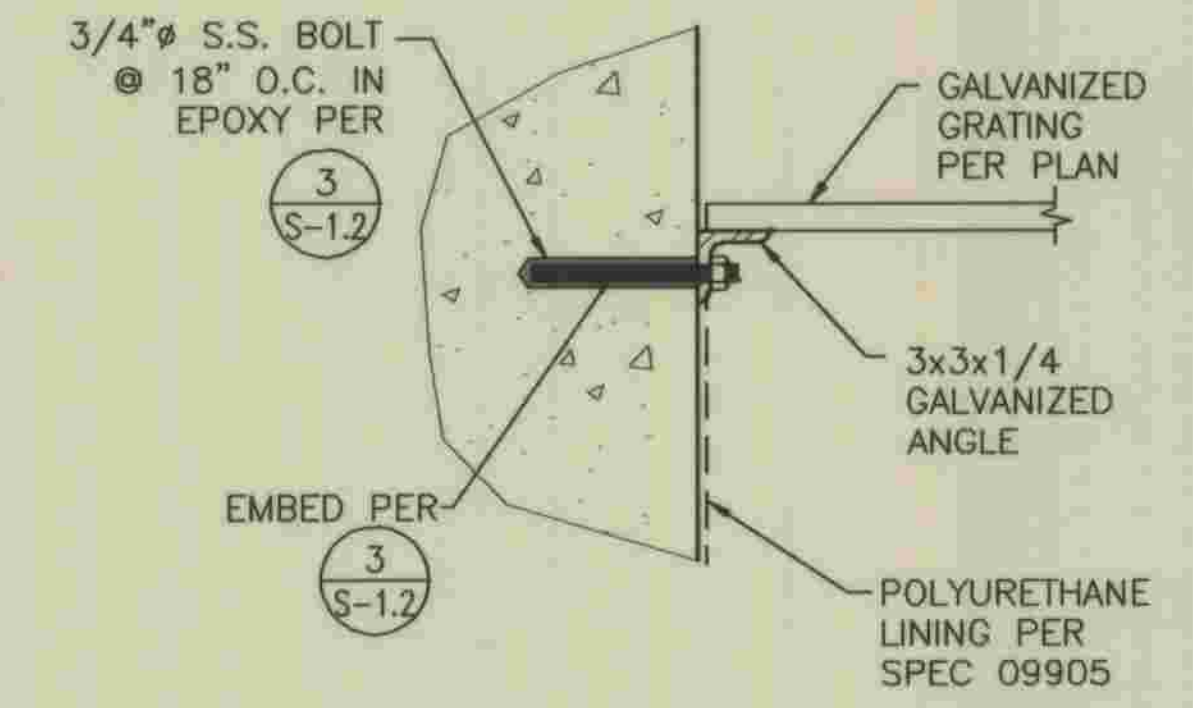
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3
S-4.1



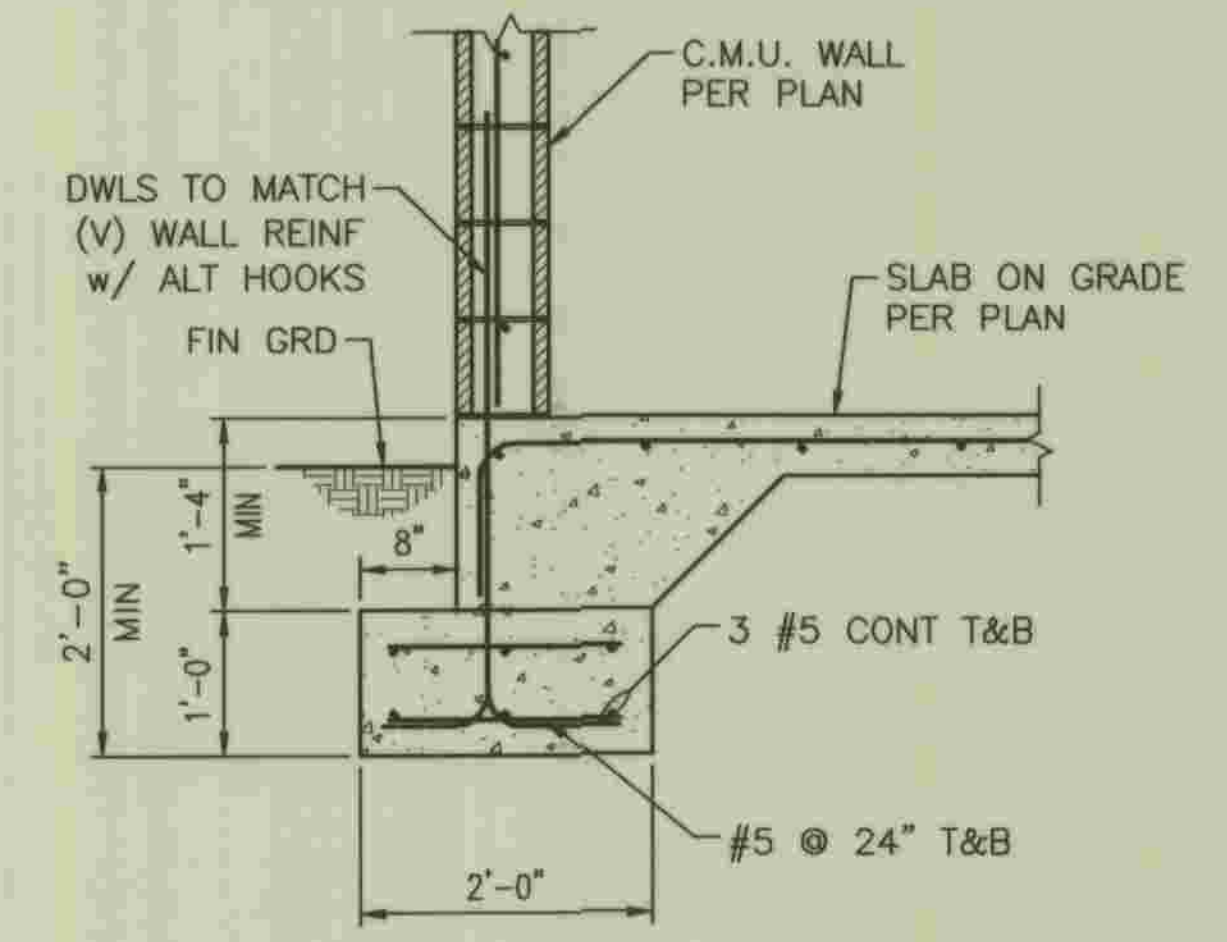
SCALE: 1 1/2" = 1'-0"

4
S-4.1

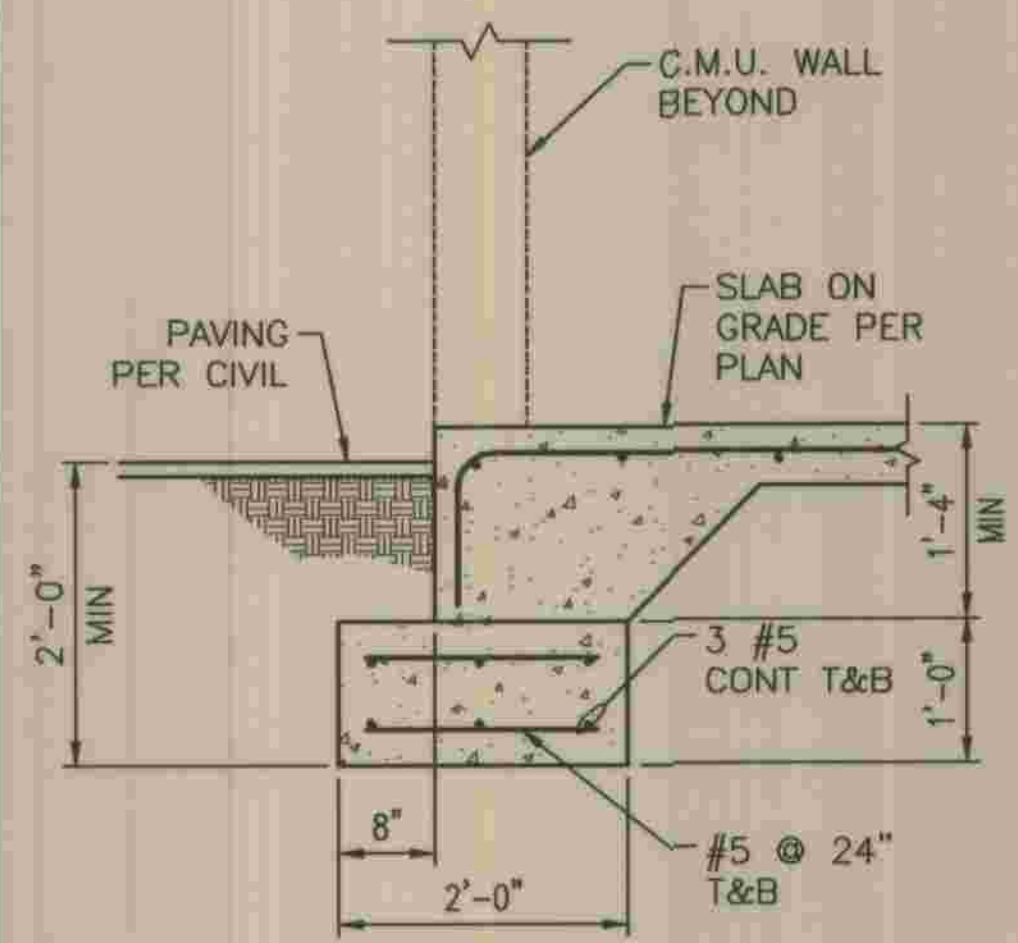


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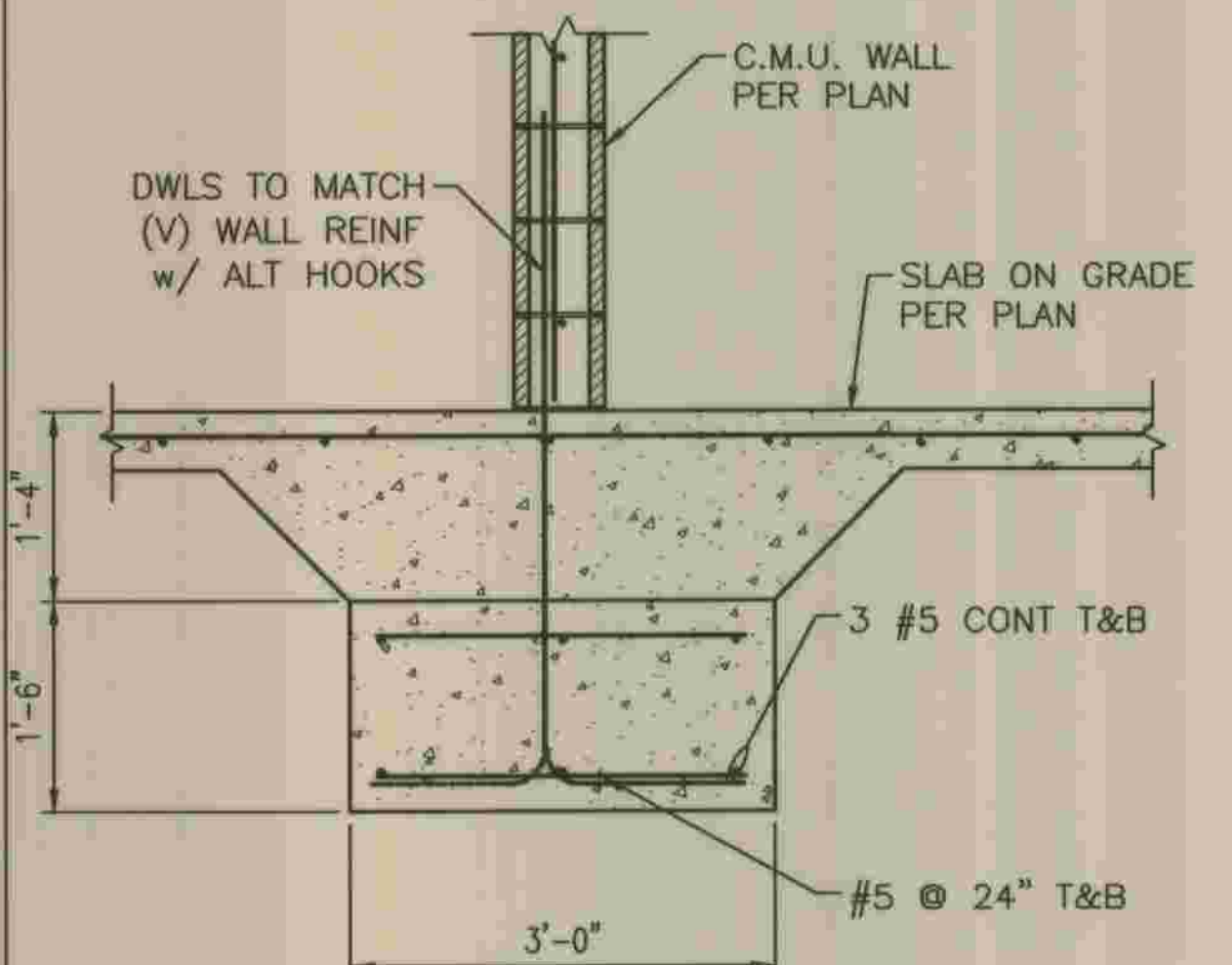
5
S-4.1



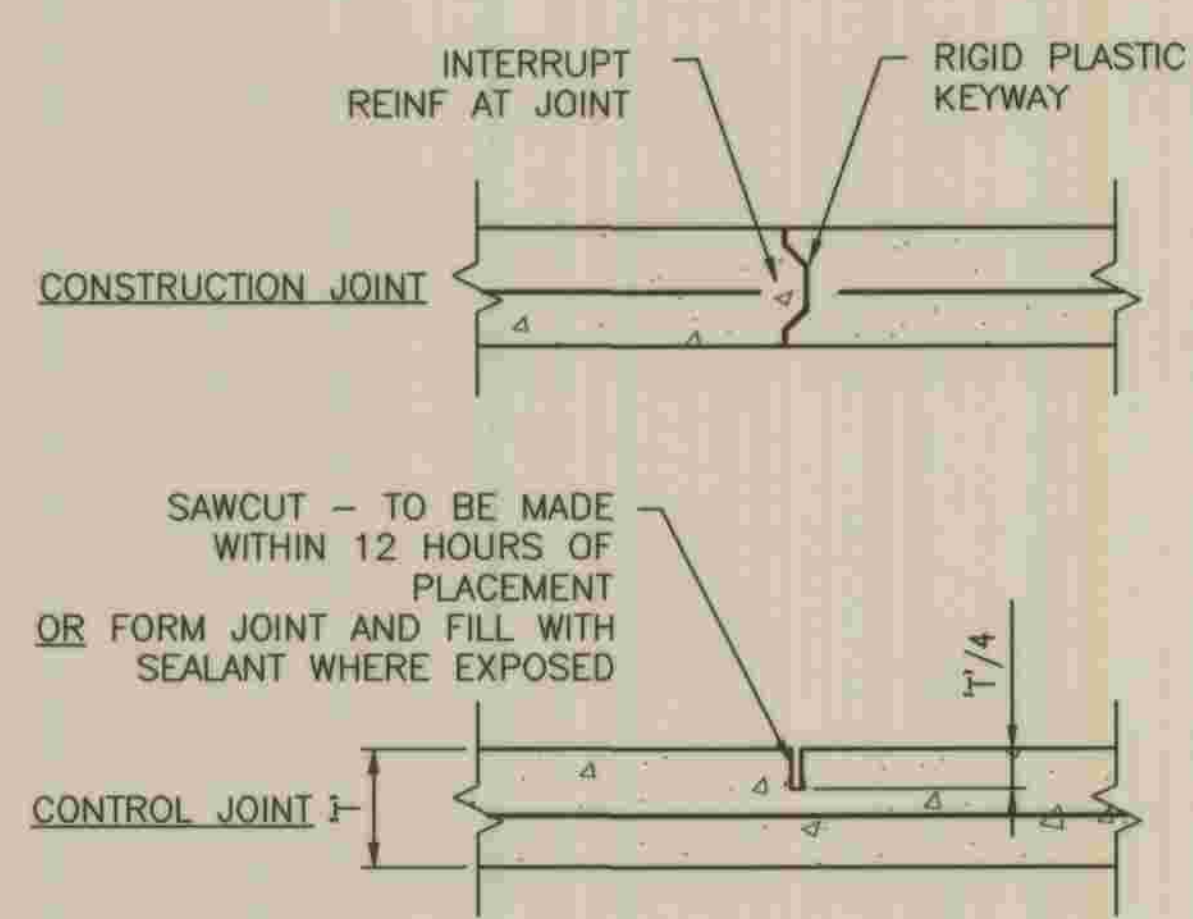
6
S-4.1



7
S-4.1

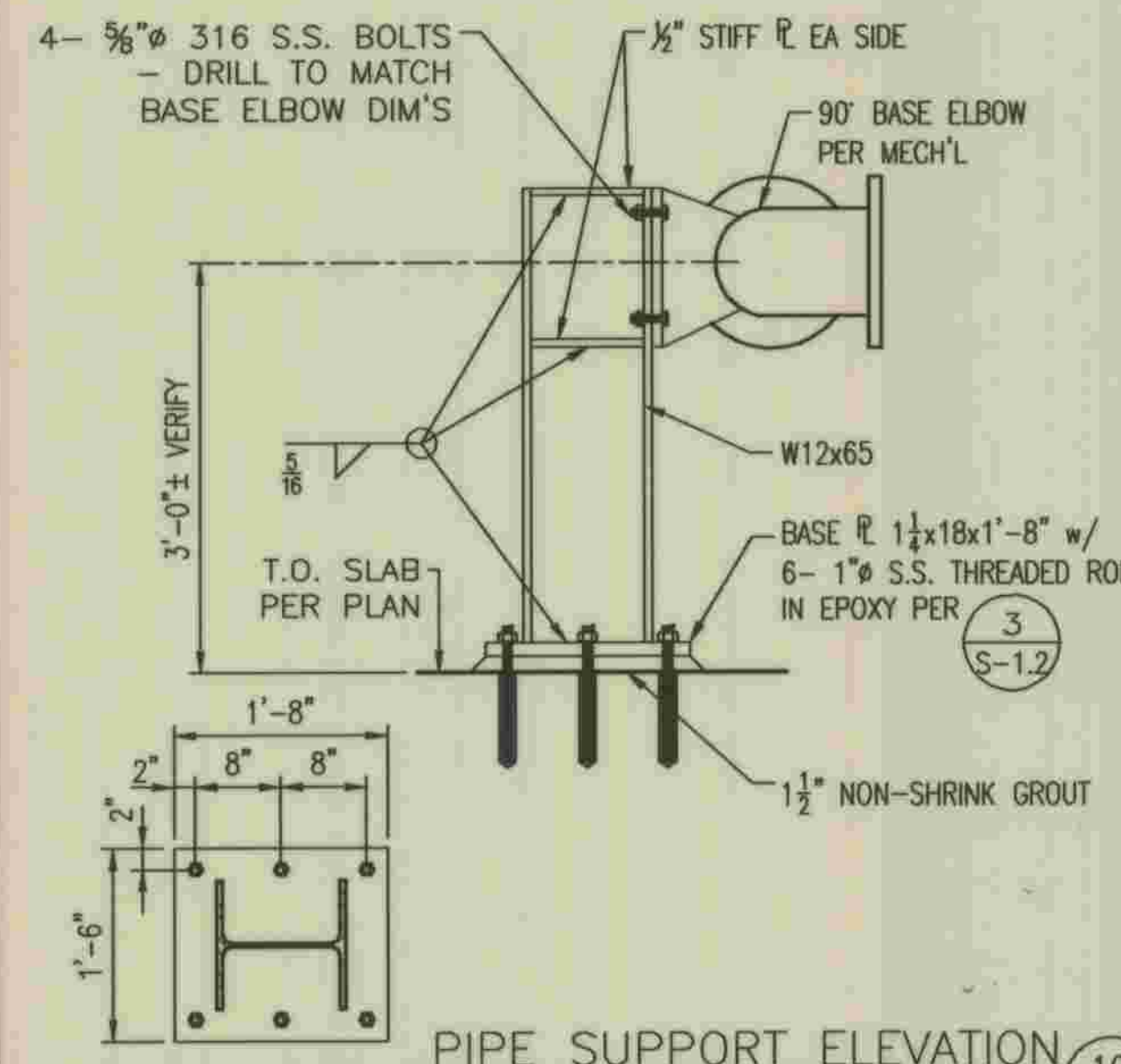


8
S-4.1



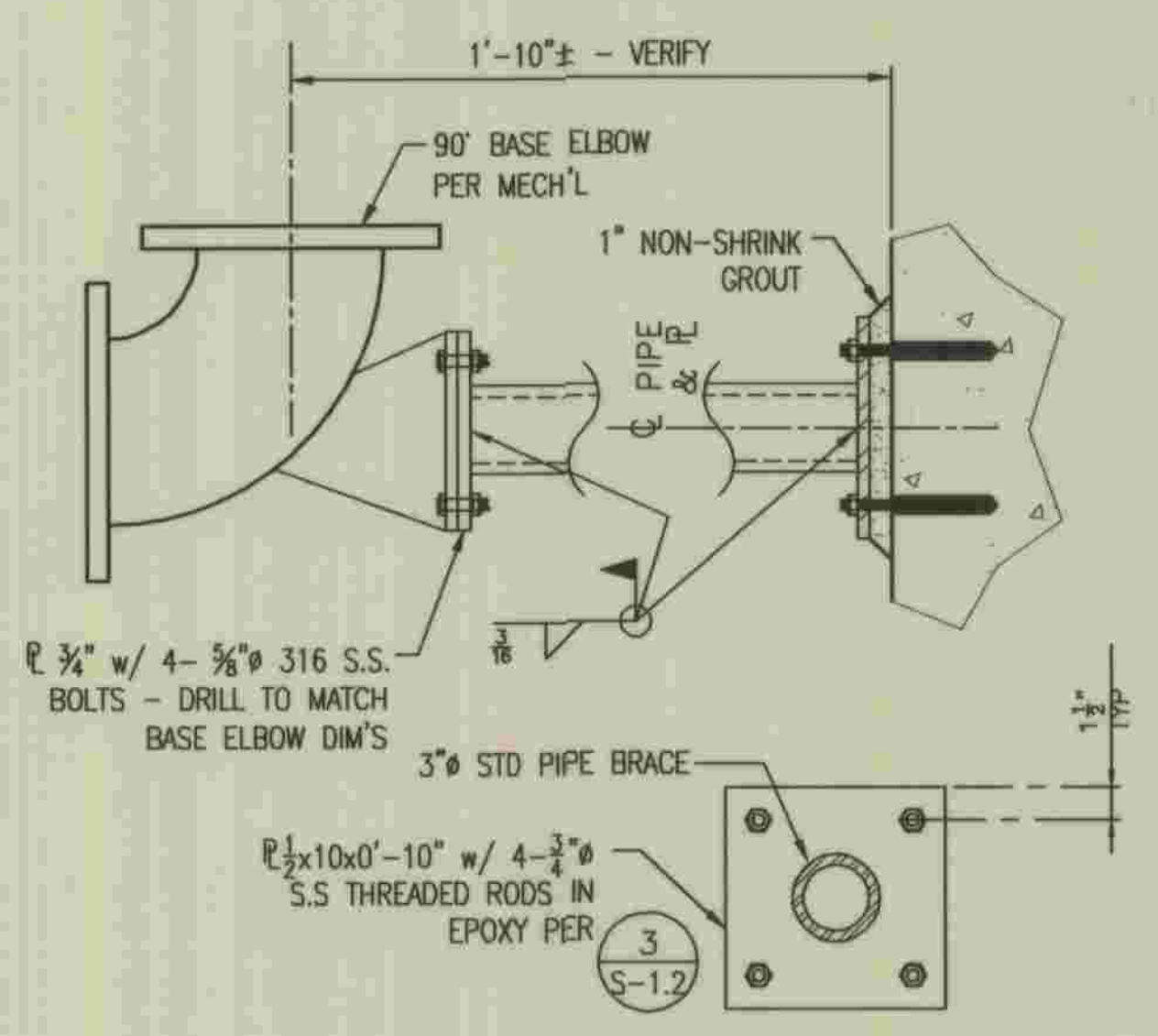
CONCRETE SLAB JOINTS, U.N.O.
1" = 1'-0"

9
S-4.1



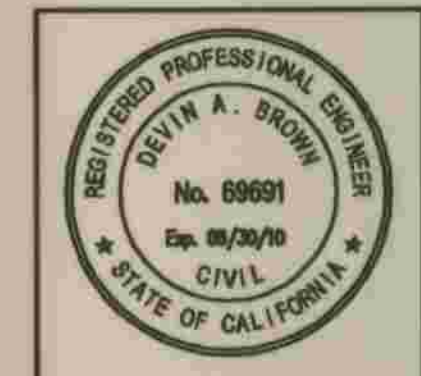
PIPE SUPPORT ELEVATION

10
S-4.1



11
S-4.1

\\SANDBOARD\PROJECTS\07\07056\1-DWG\07056-54-1.DWG 5/28/2009 8:38:54 AM



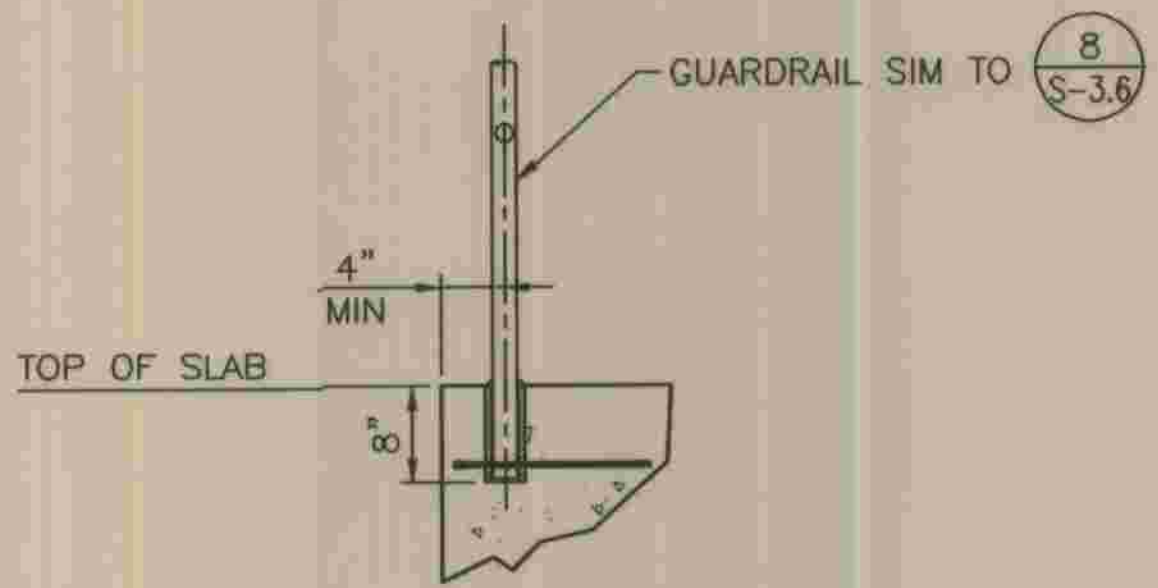
PLANS PREPARED BY
R2H ENGINEERING, INC.
CONSULTING STRUCTURAL ENGINEERS
17150 VIA DEL CAMPO, SUITE 306
SAN DIEGO, CA 92127
PHONE (858) 673-8416
FAX (858) 673-8416
Devin A. Brown 5/28/09
DEVIN A. BROWN DATE

DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY
CHECKED *Peter Chang* 7-28-2009
DESIGN DIVISION DATE

NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY

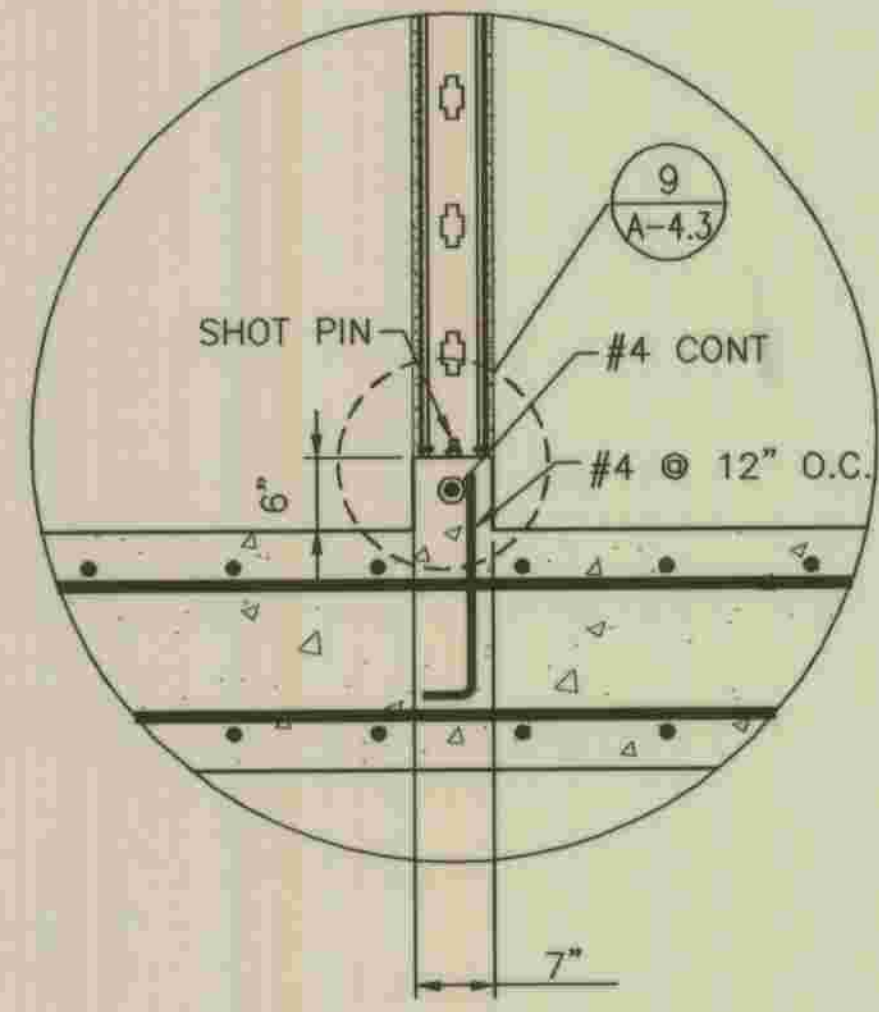
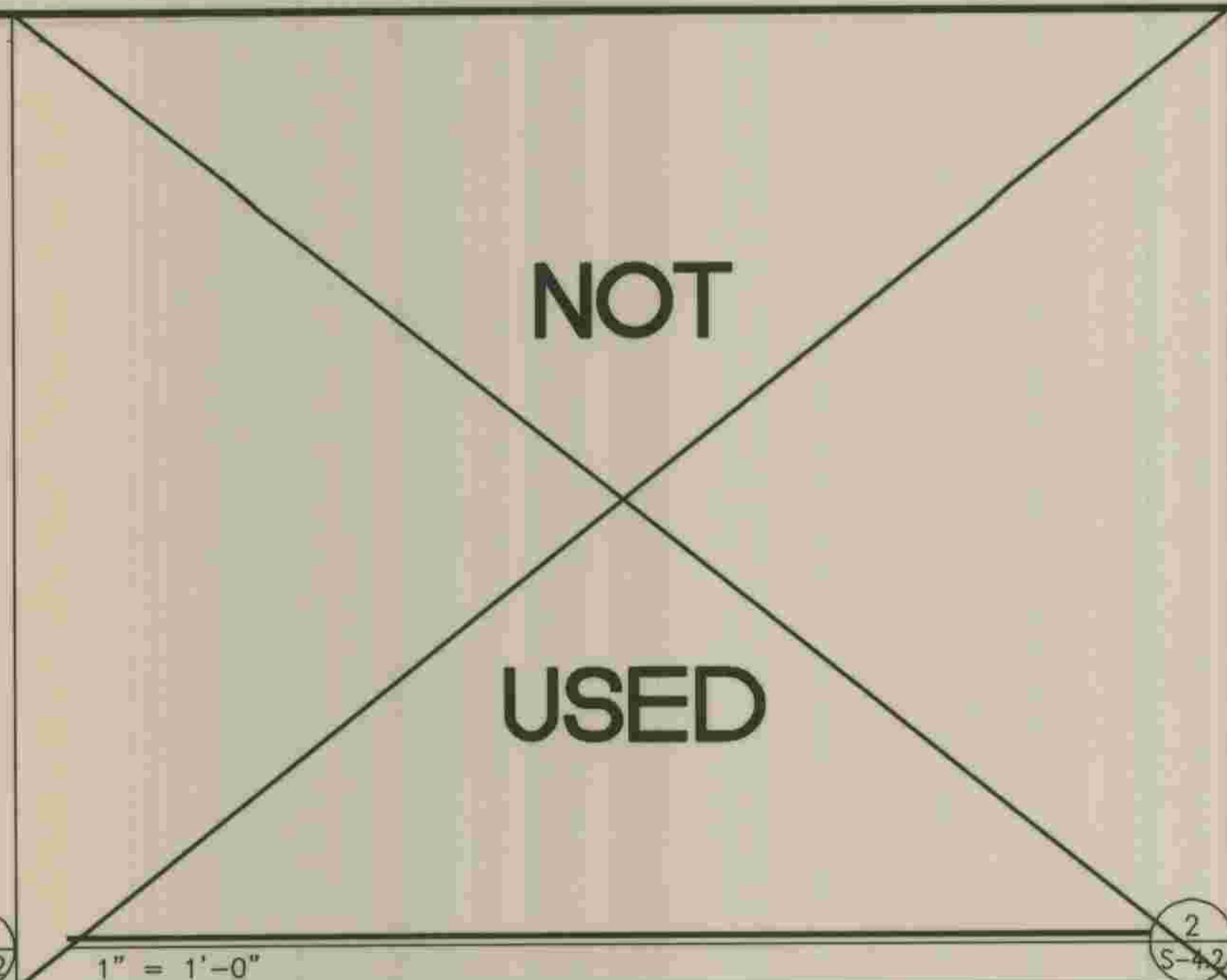
REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.
LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS
**HANCOCK PARKWAY
SEWAGE LIFT STATION (TEMPORARY)**
PROJ. MAP NO. 26363
FOUNDATION DETAILS

S-4.1
SHEET
29
OF
61
SHEETS



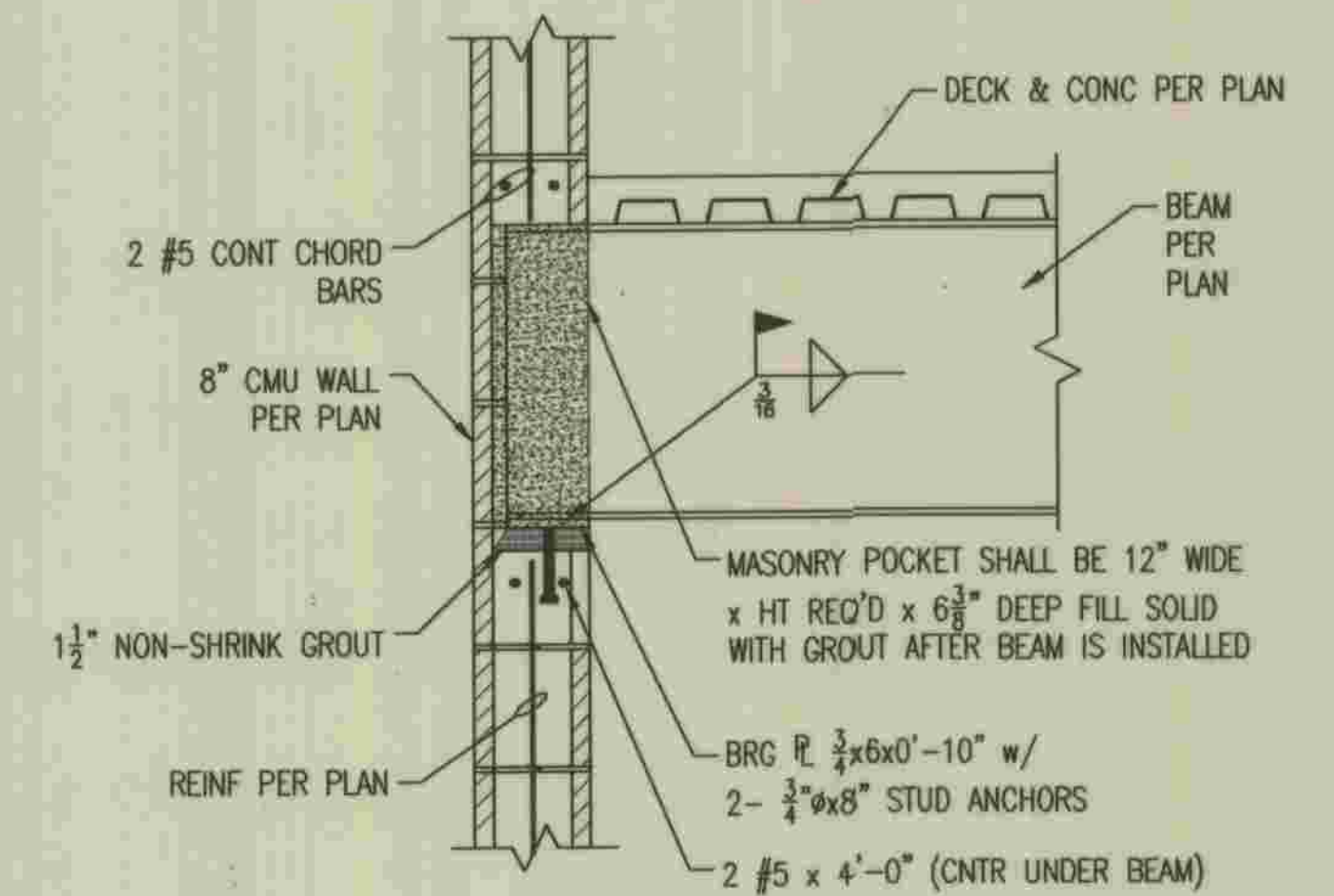
GUARDRAIL DETAIL

1" = 1'-0" 07/19/04



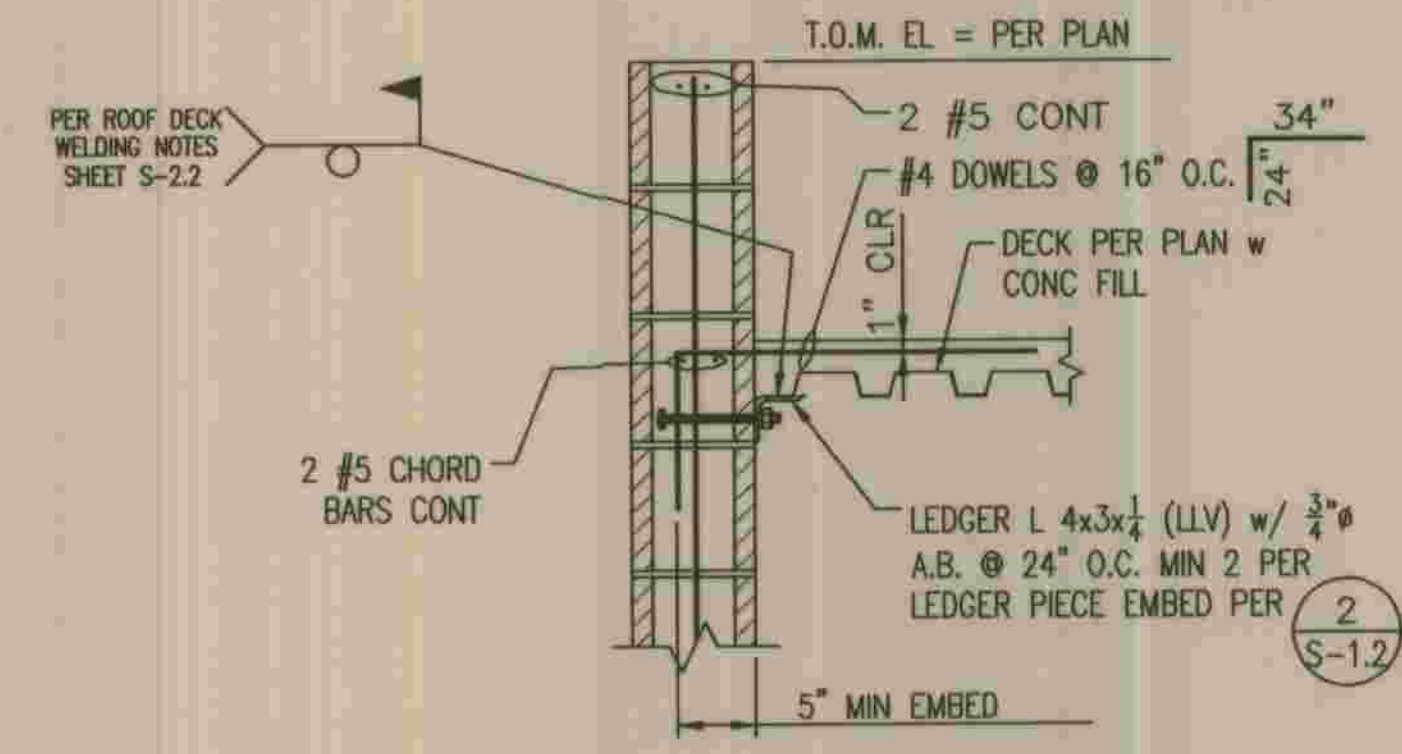
SECTION

3/8" = 1'-0"



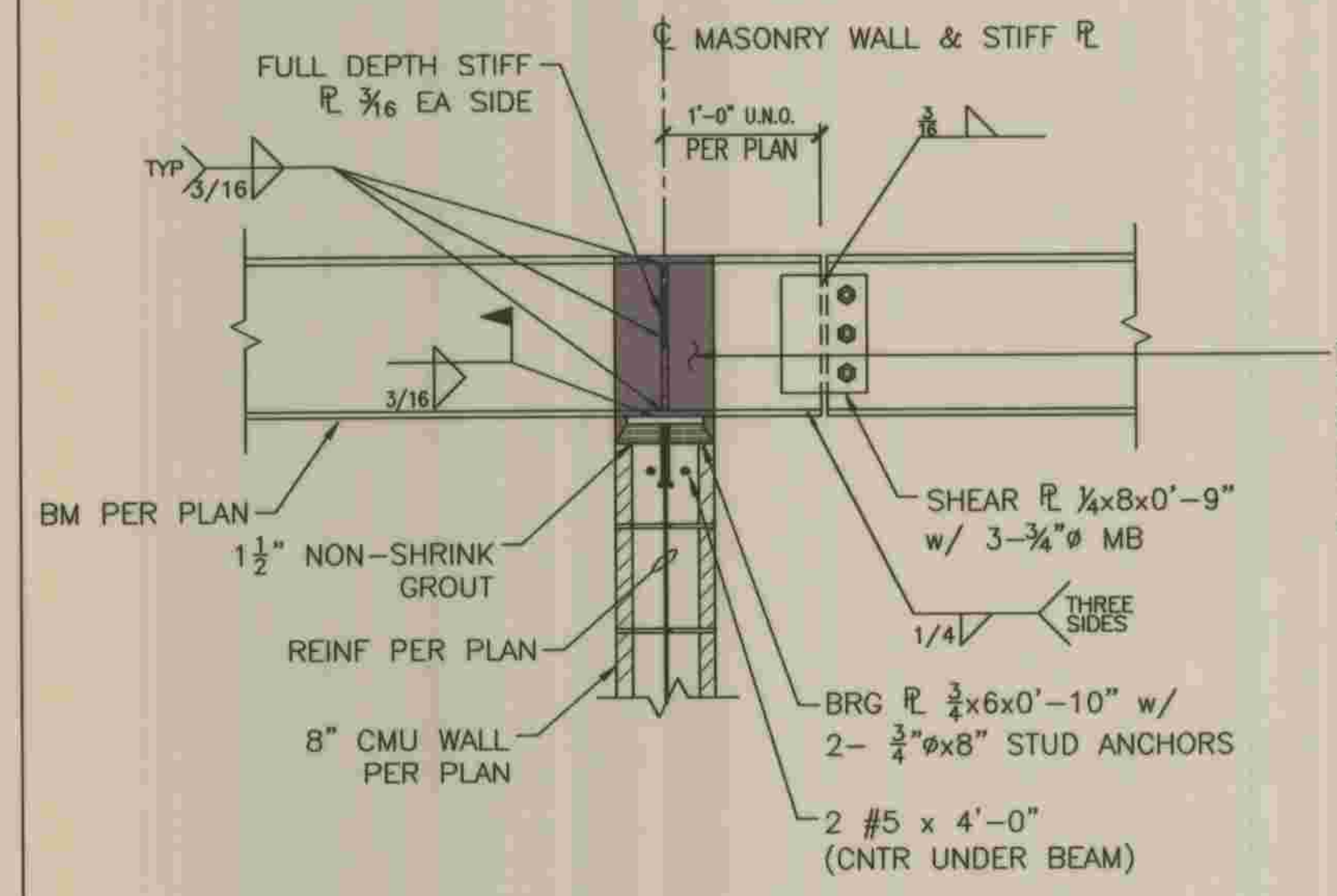
BEAM BEARING

1" = 1'-0"



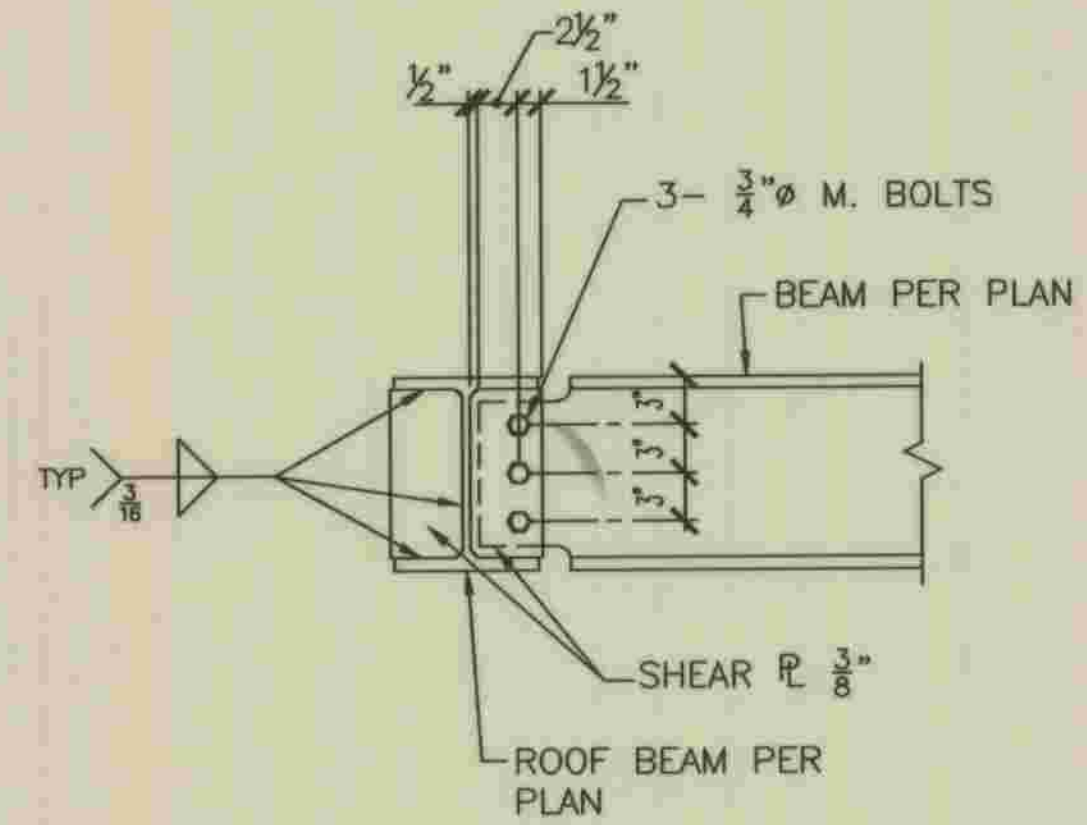
WALL LEDGER

1" = 1'-0"

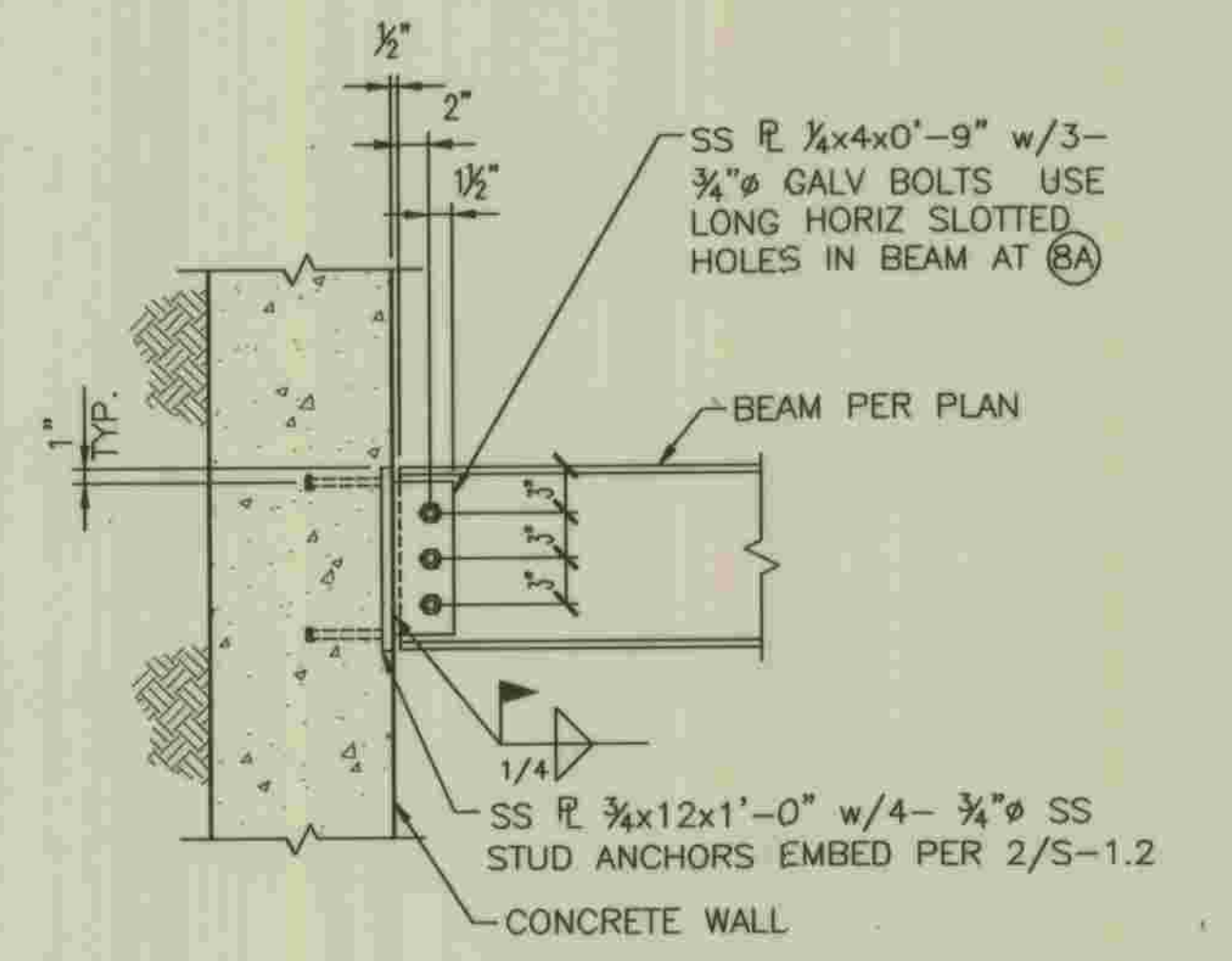


FILL BEAM POCKET WITH GROUT TO MINIMIZE AIR FLOW THRU OPENING. FILL ALL REMAINING VOIDS WITH "TOUCH-N-FOAM" TRIPLE EXPANDING GROUT, OR EQUAL, AS REQ'D

5

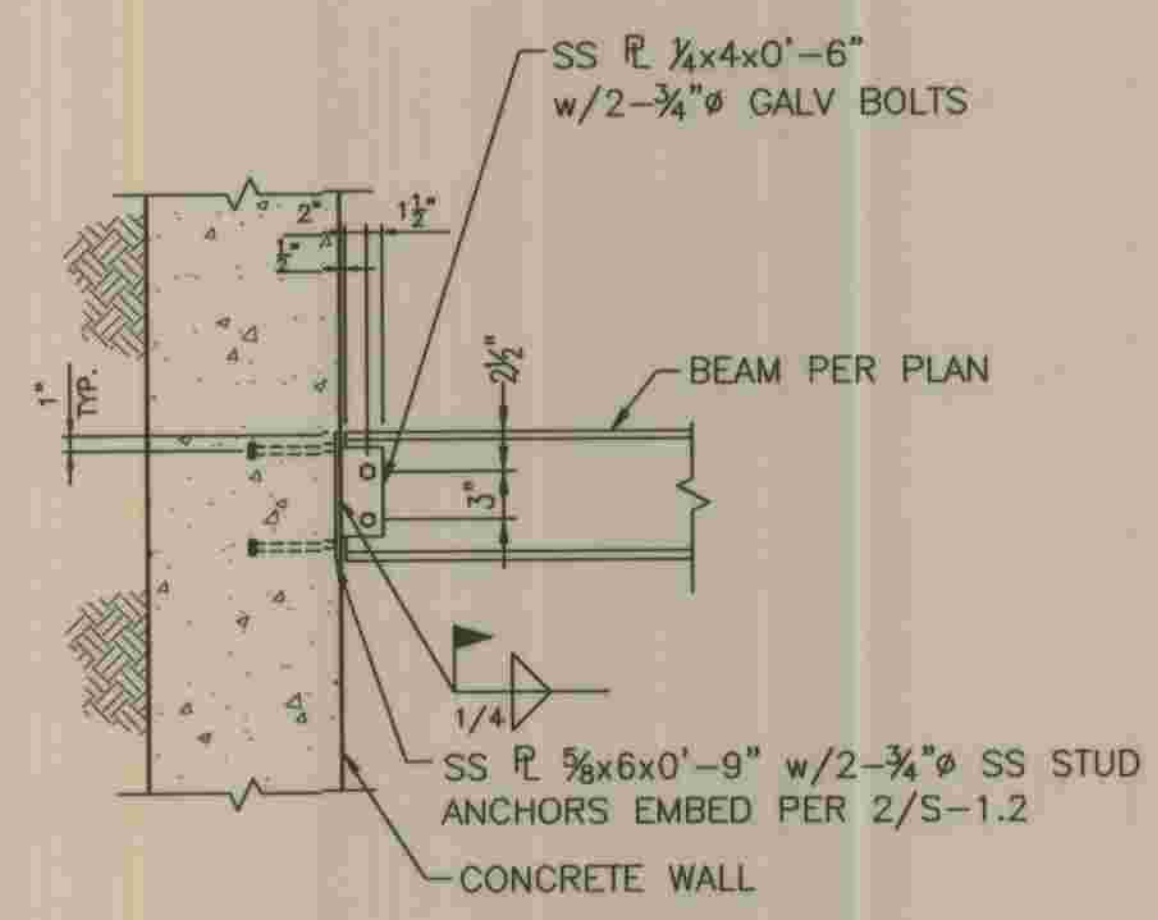


6

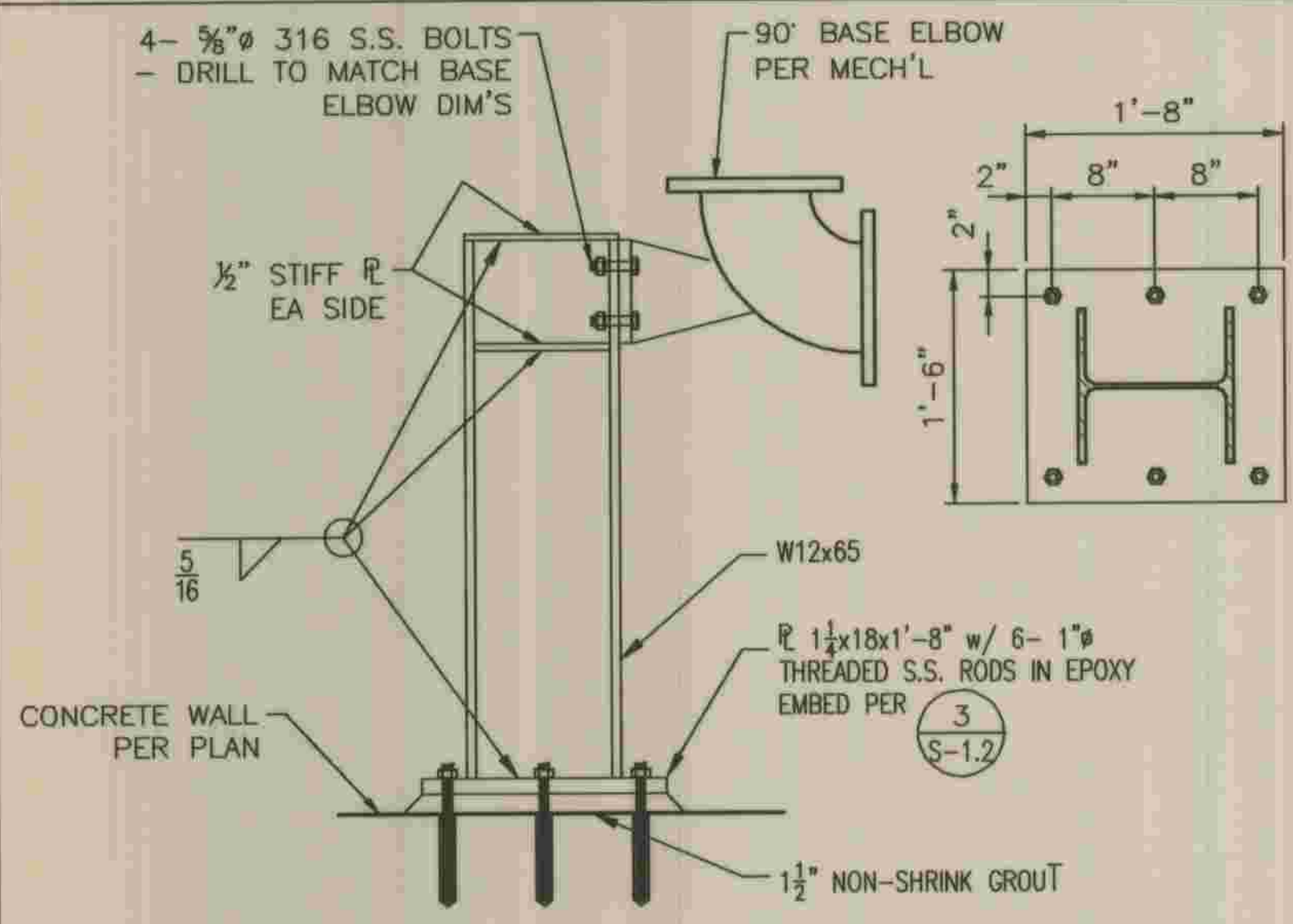


8A

8

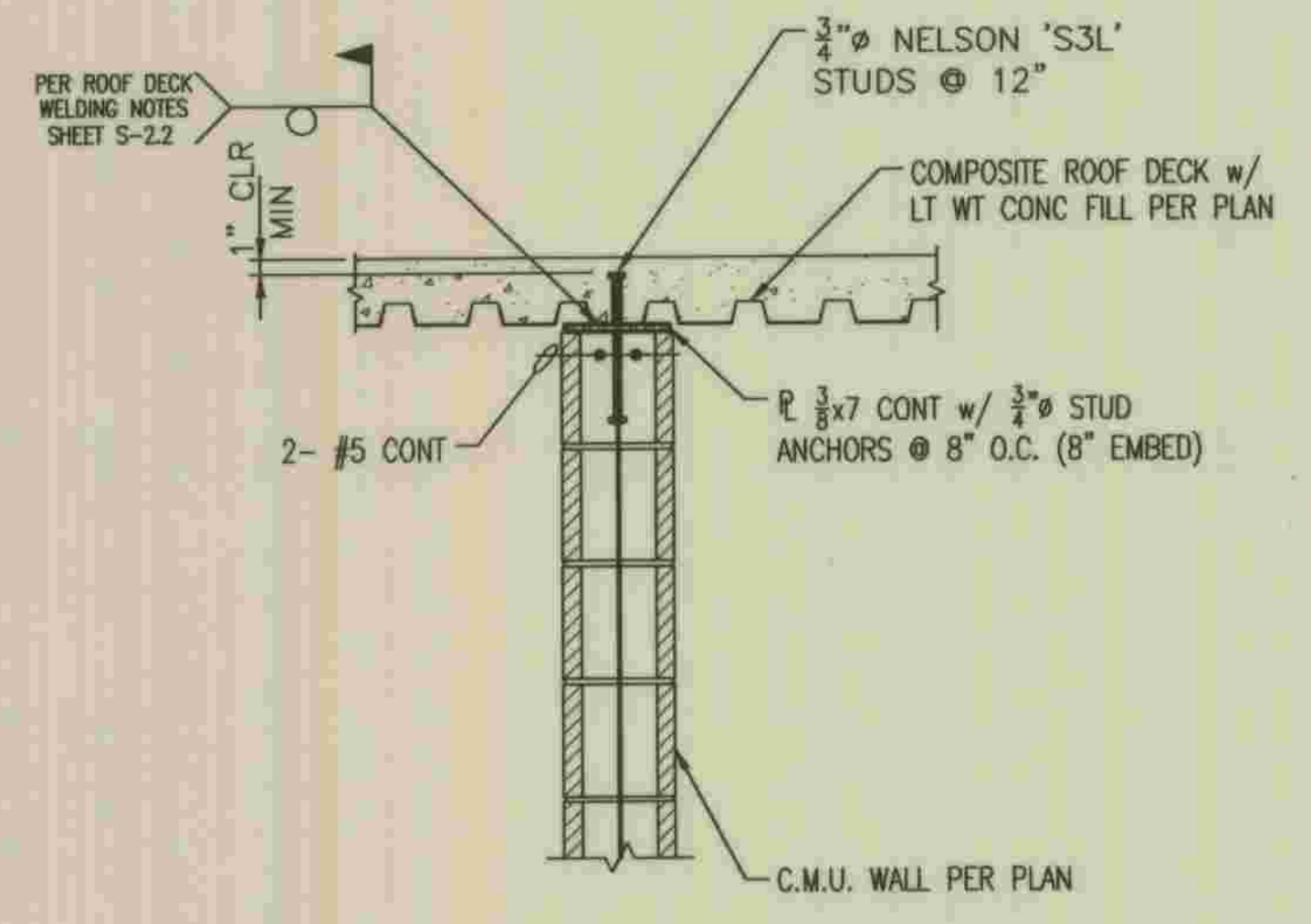


9



PIPE SUPPORT: PLAN VIEW

1" = 1'-0"



11

REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY)

PARCEL MAP NO. 26363

STAIR DETAILS

S-4.2
SHEET
30
OF
61
SHEETS

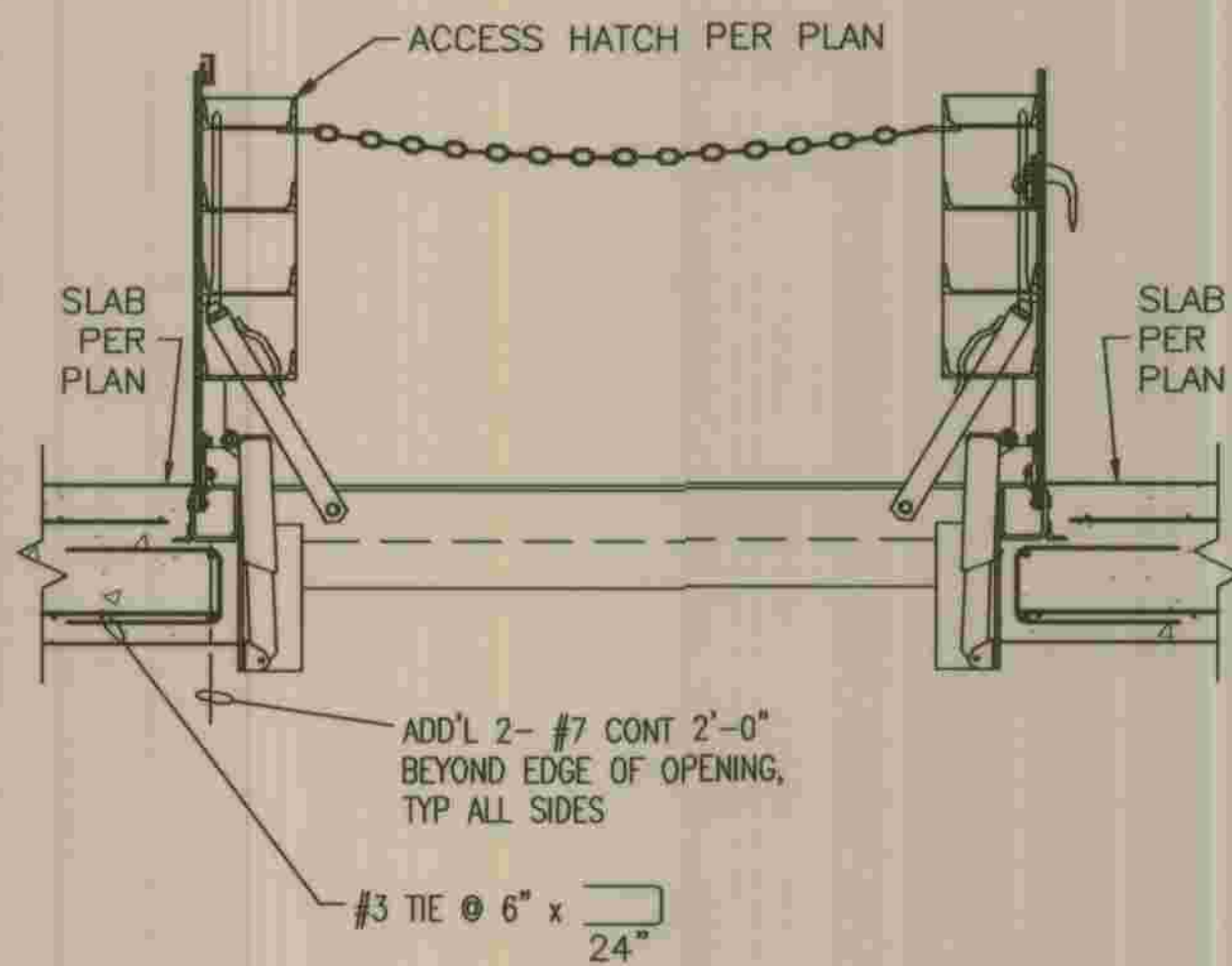


PLANS PREPARED BY R2H ENGINEERING, INC. CONSULTING STRUCTURAL ENGINEERS 17150 VIA DEL CAMPO, SUITE 306 SAN DIEGO, CA 92127

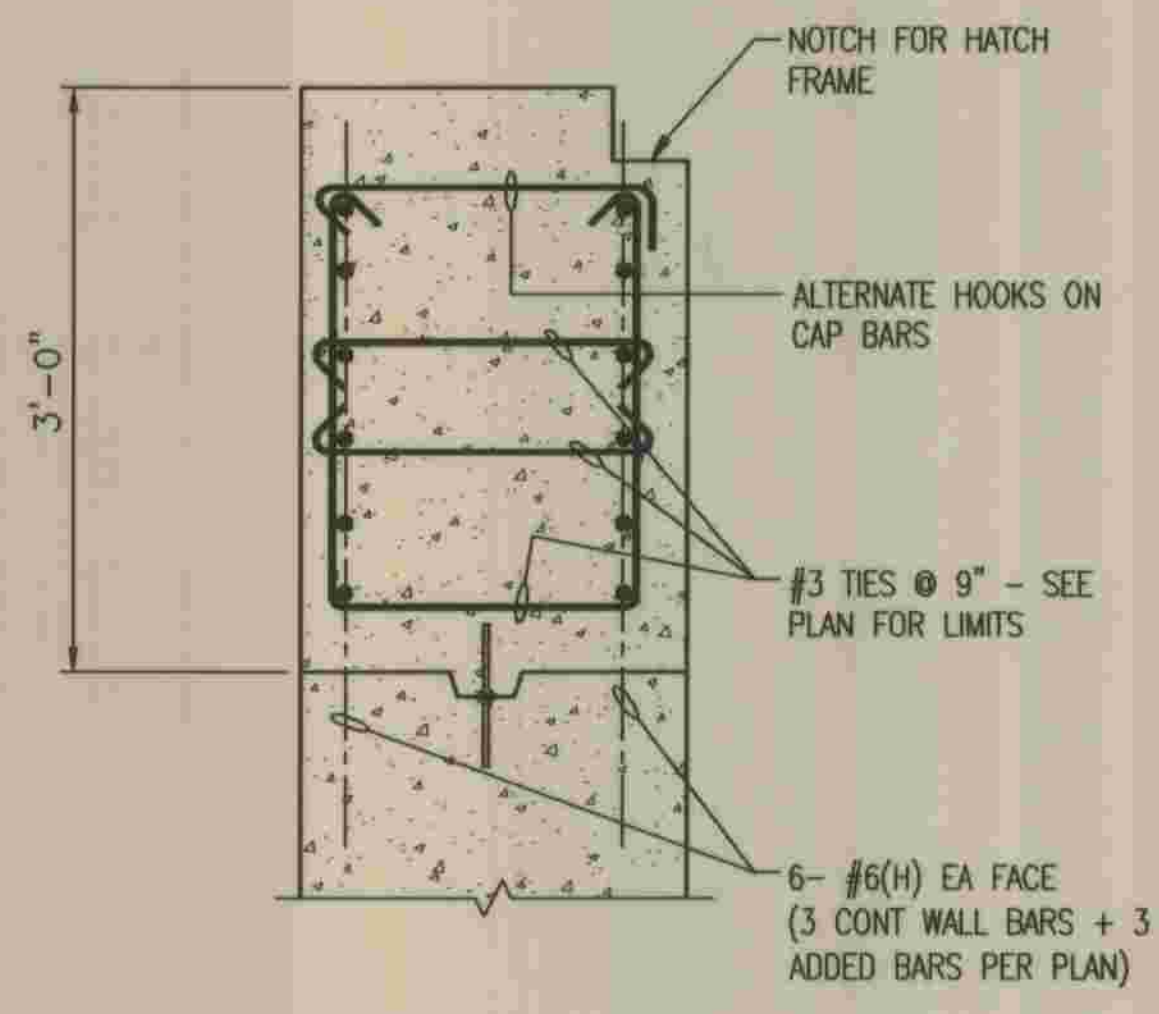
DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY CHECKED Peter Chang 7-28-2009

NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY

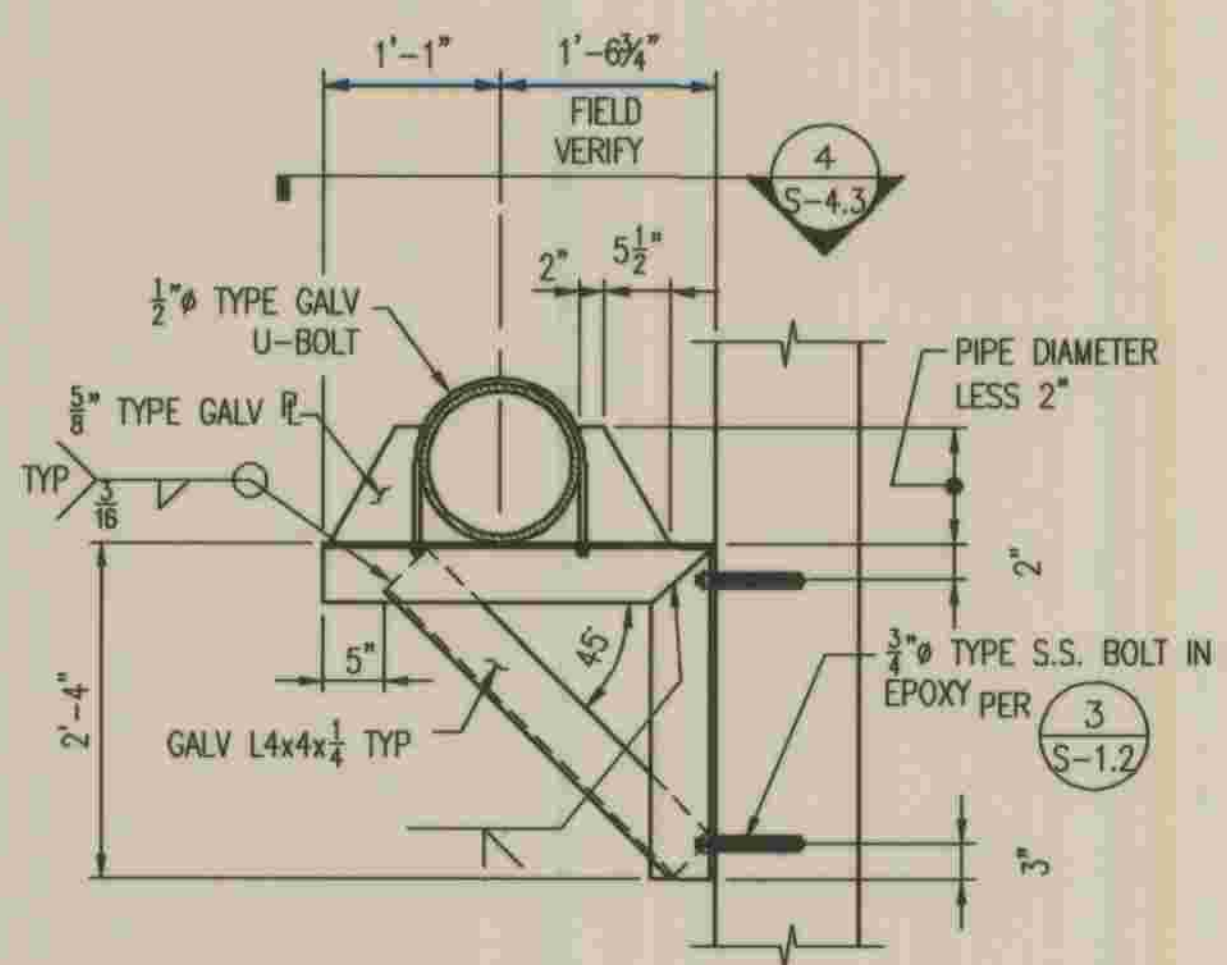
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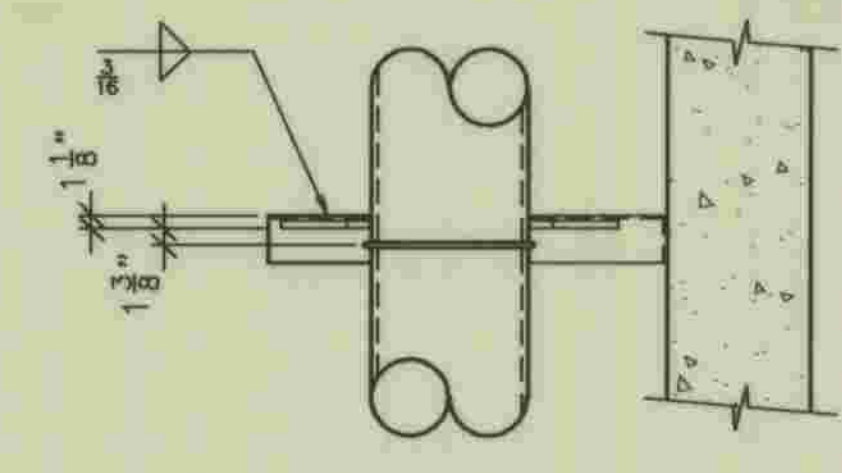
DOUBLE LEAF ACCESS HATCH



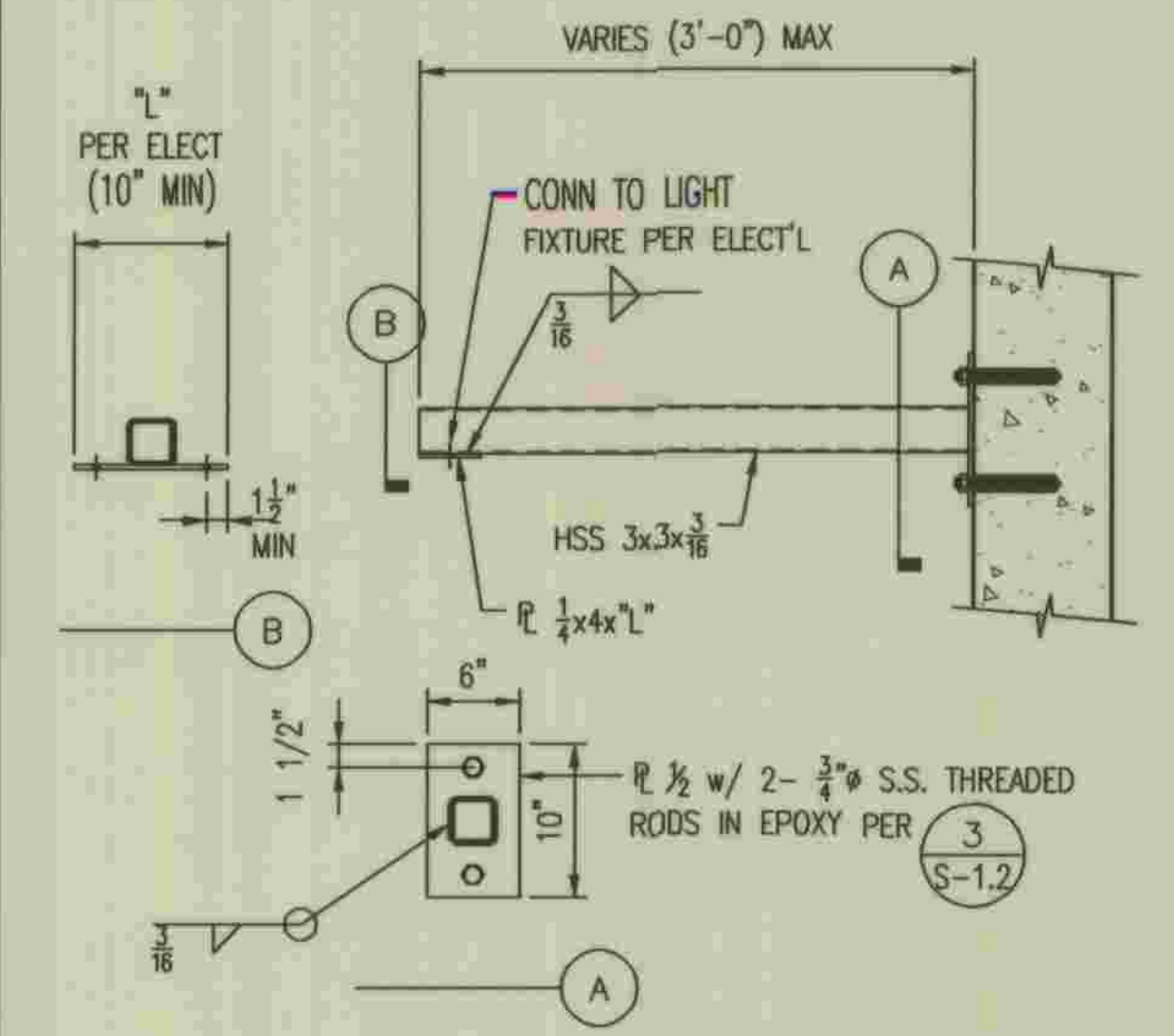
BEAM AT STAIR OPENING



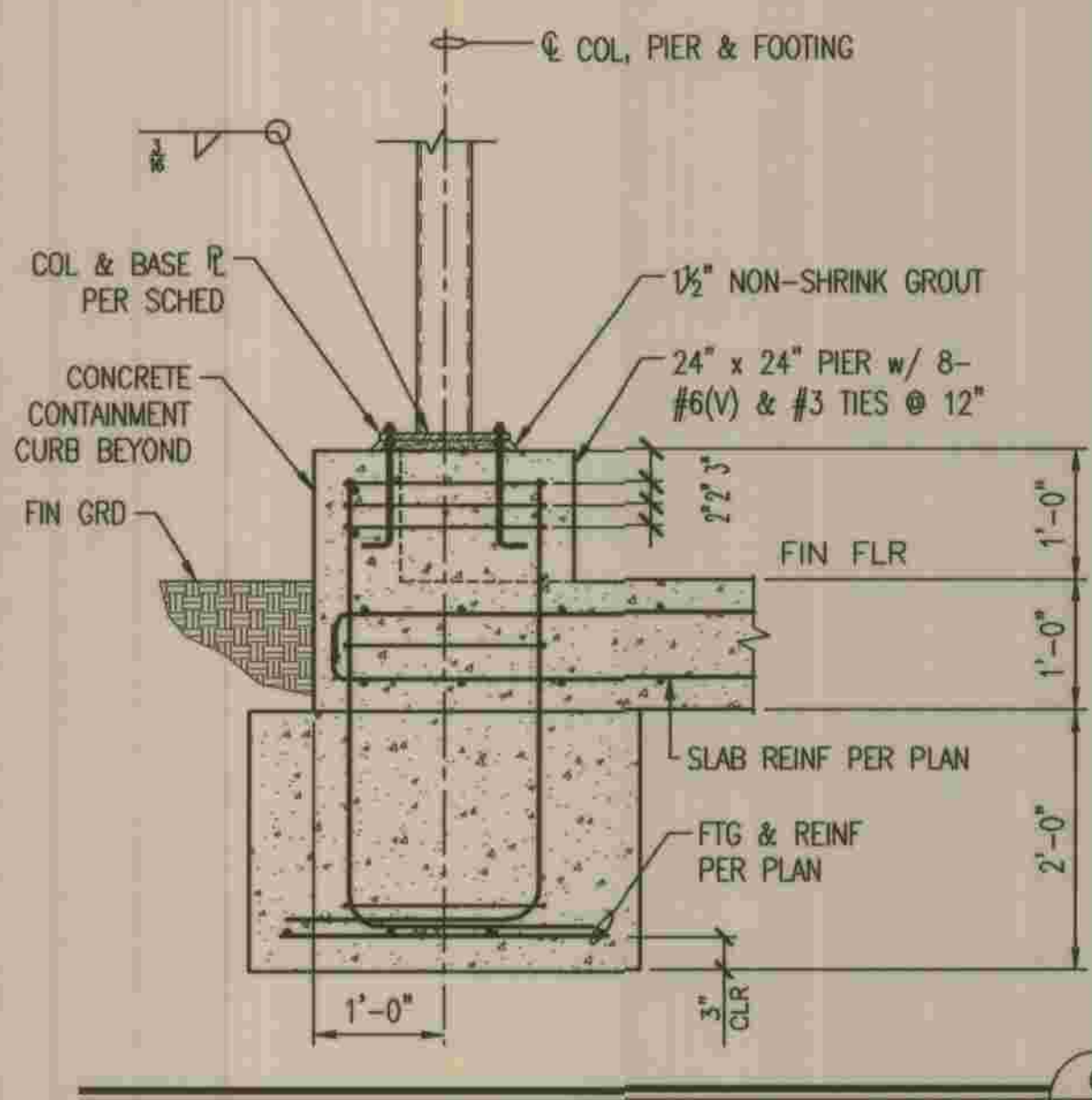
PIPE SUPPORT DETAIL (LOCATE PER MECH'L)



PIPE SUPPORT PLAN DETAIL

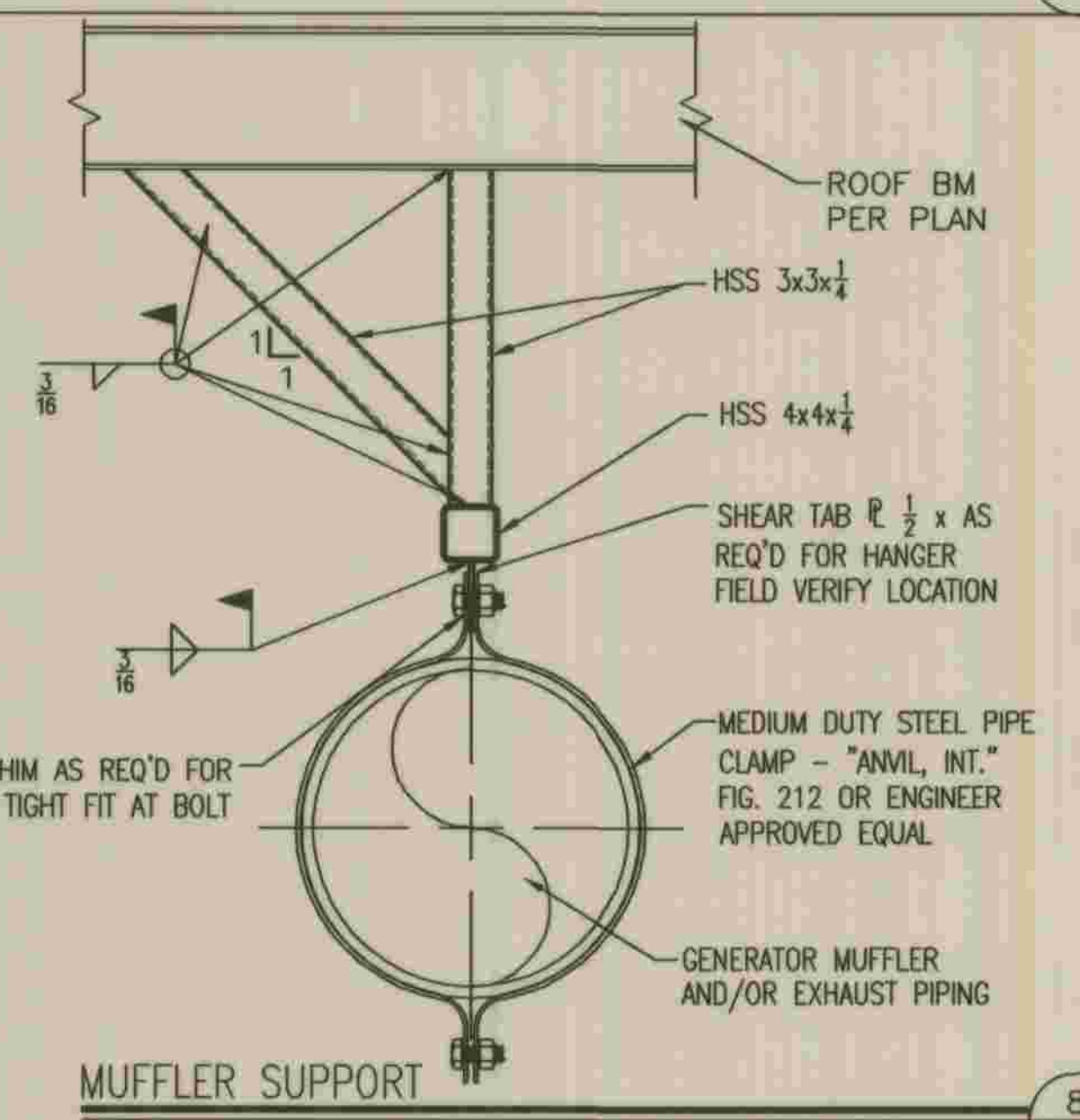


LIGHT SUPPORT DETAIL

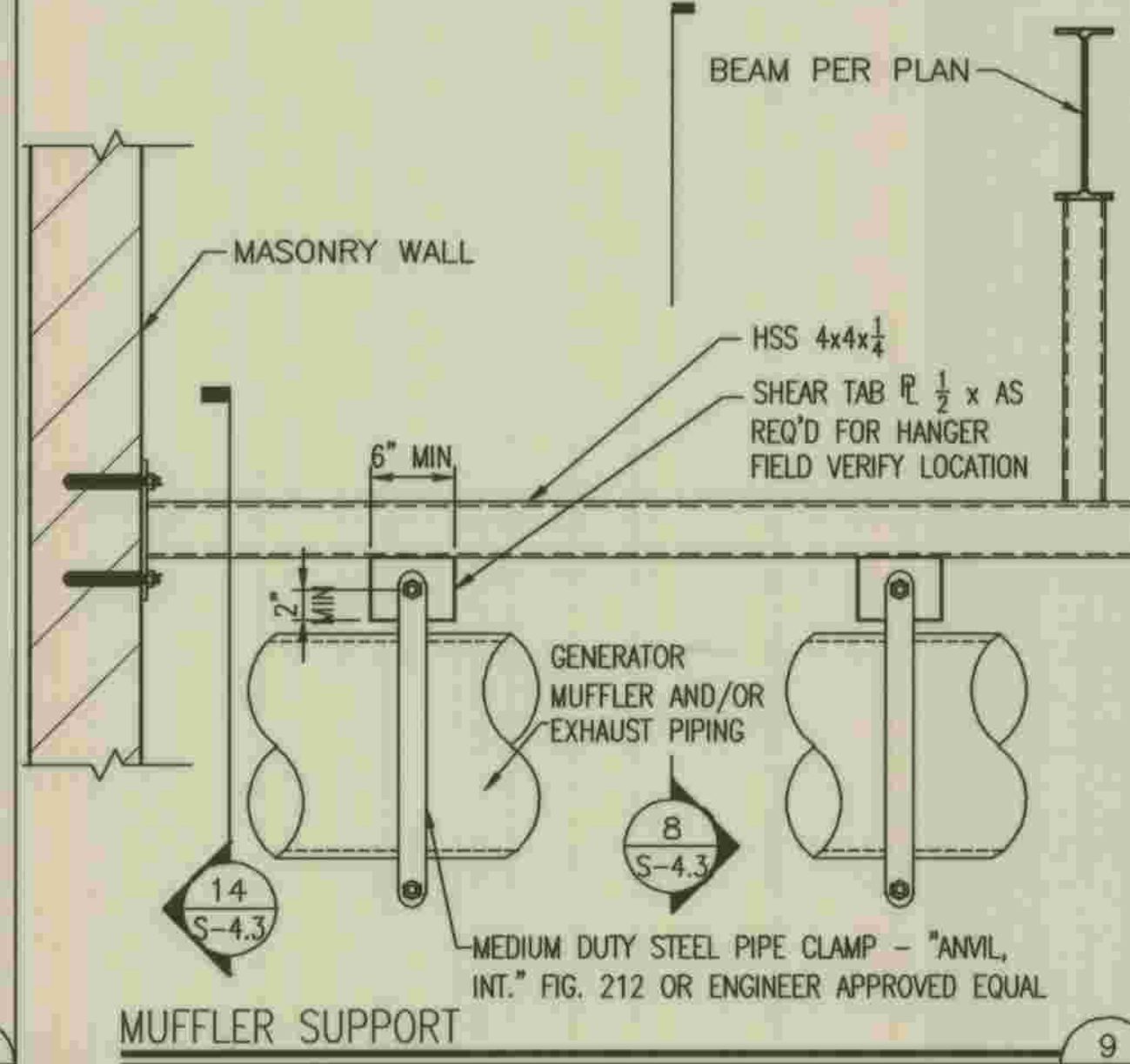


CONTAINMENT CURB

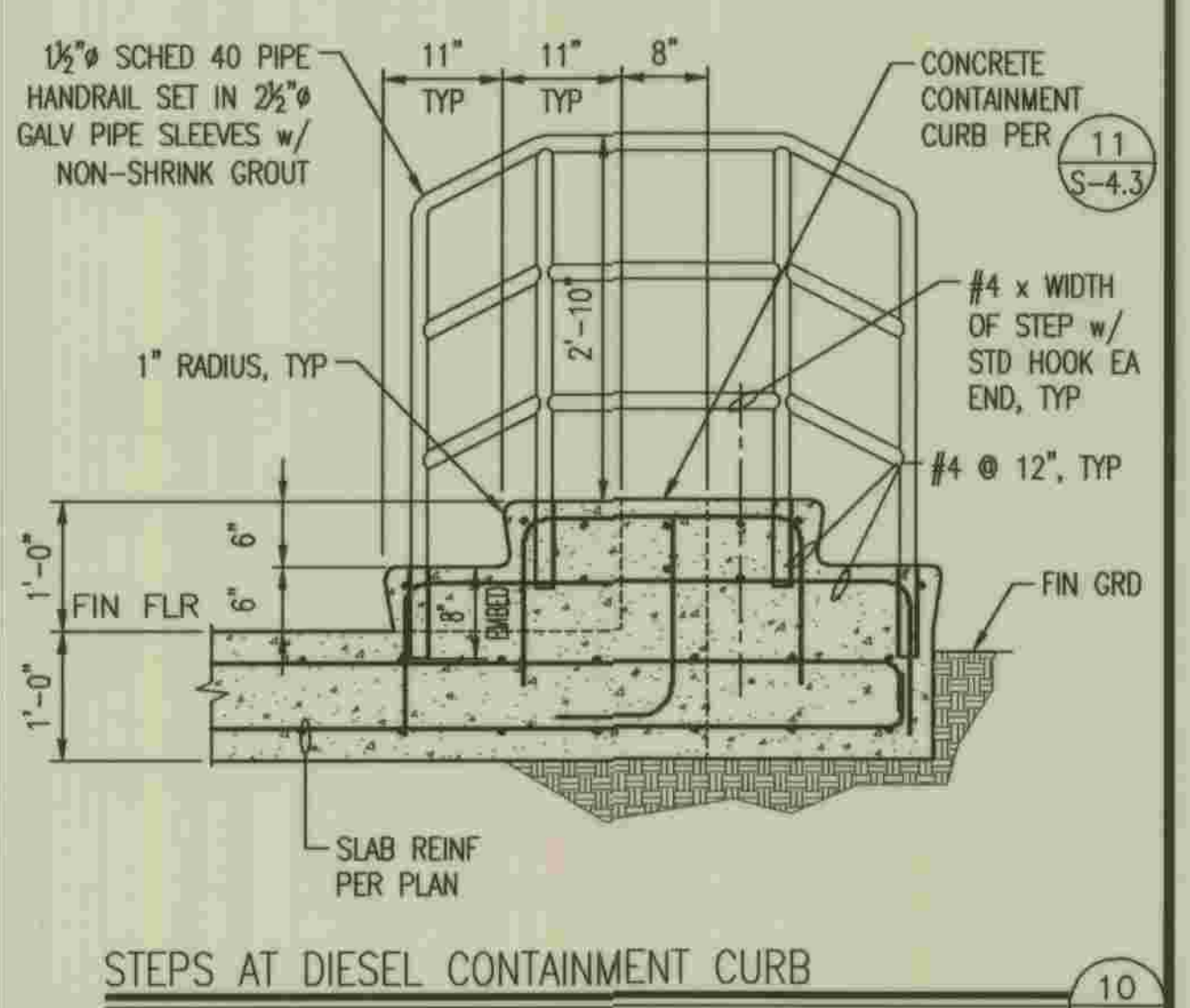
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USED



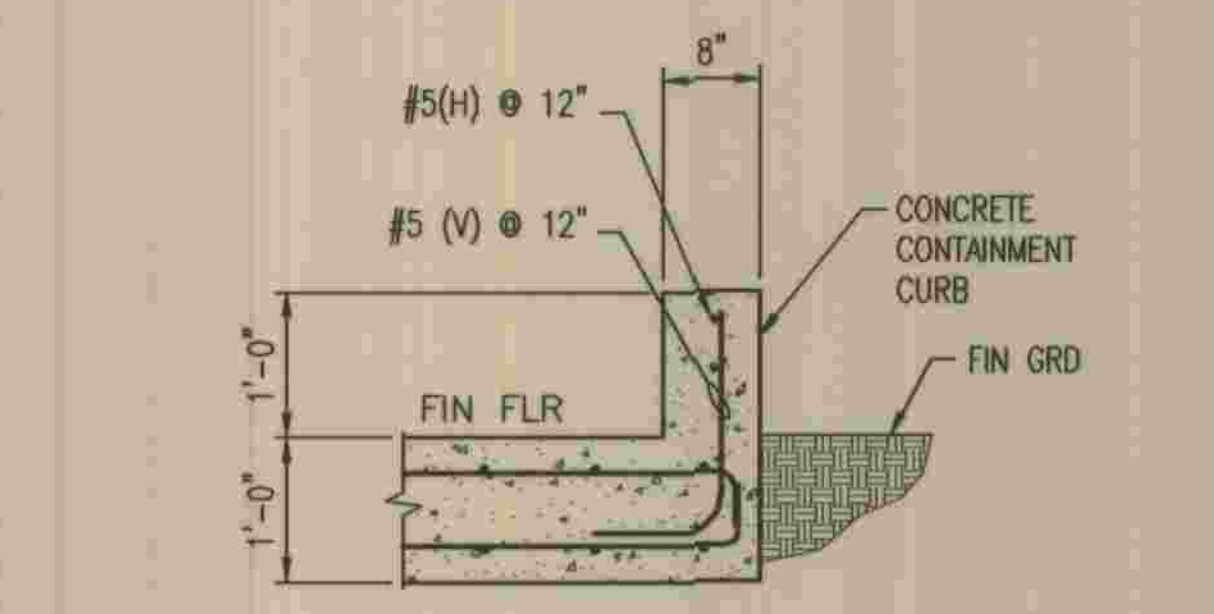
MUFFLER SUPPORT



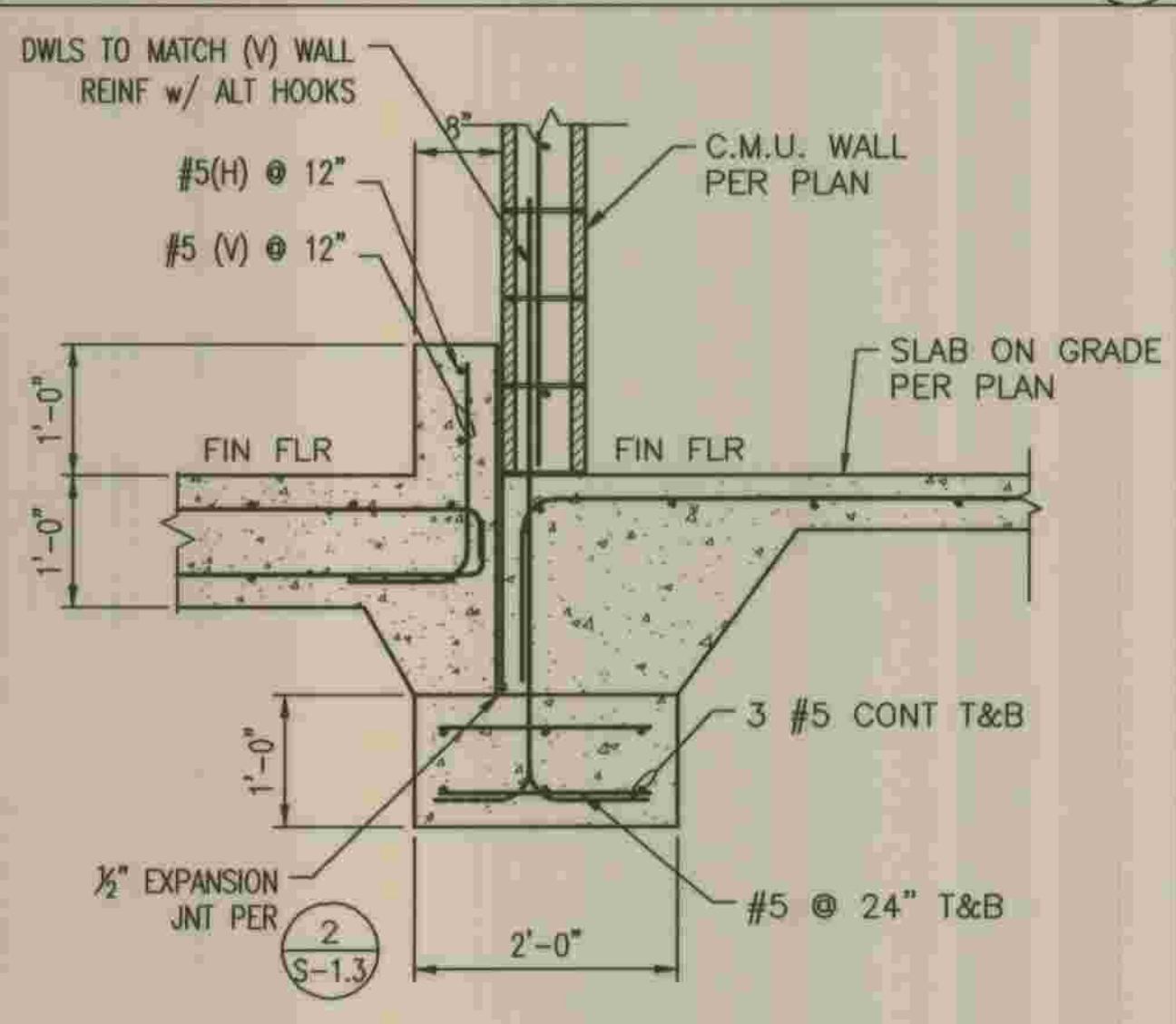
MUFFLER SUPPORT



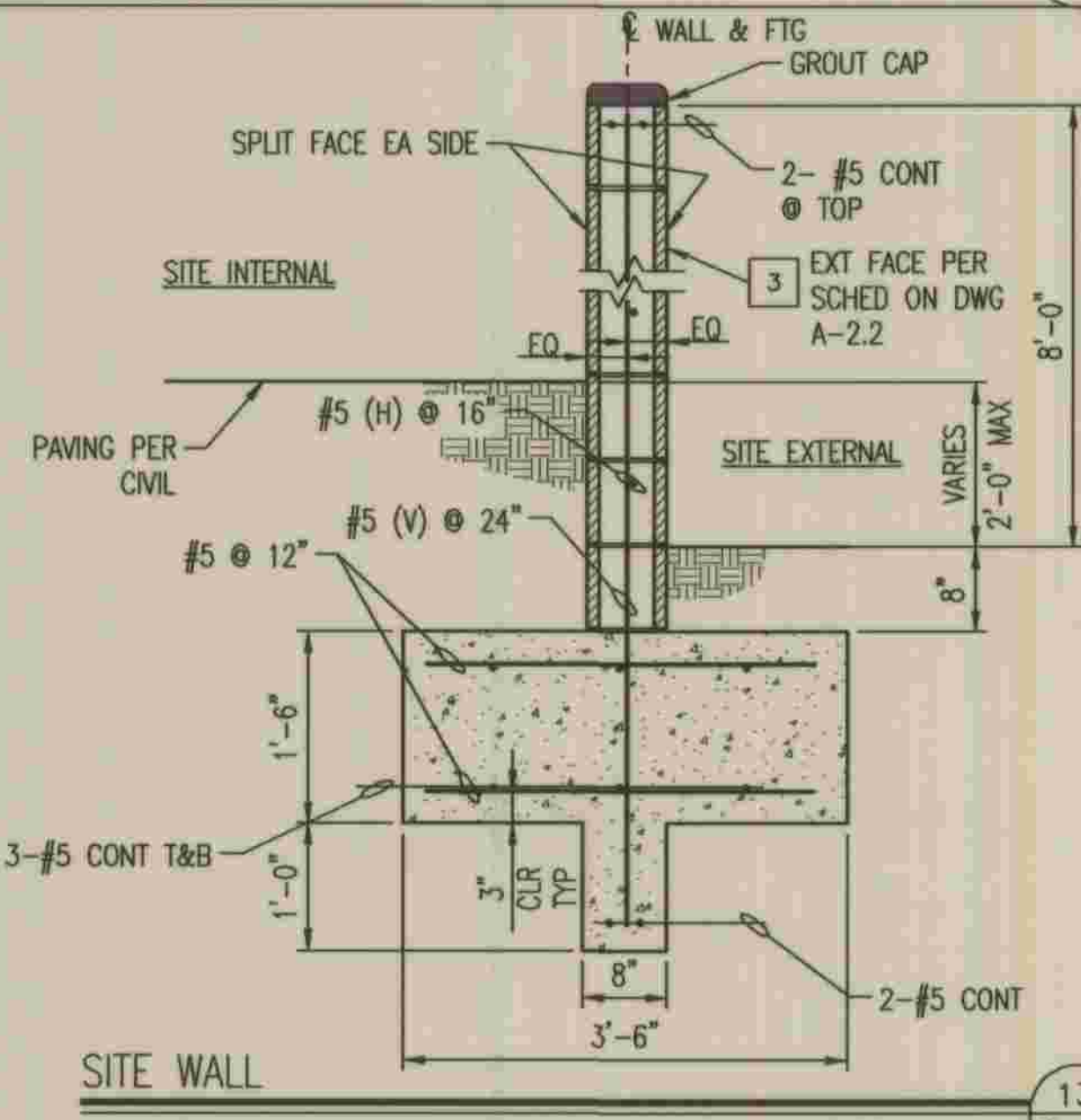
STEPS AT DIESEL CONTAINMENT CURB



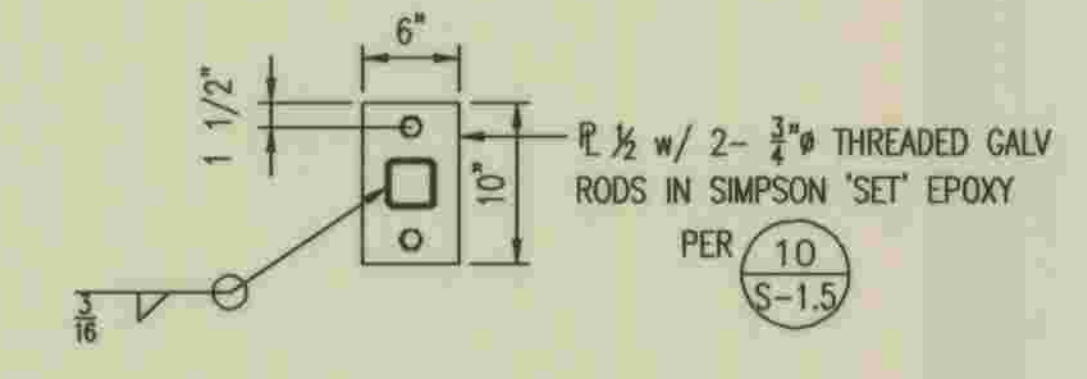
CONTAINMENT CURB



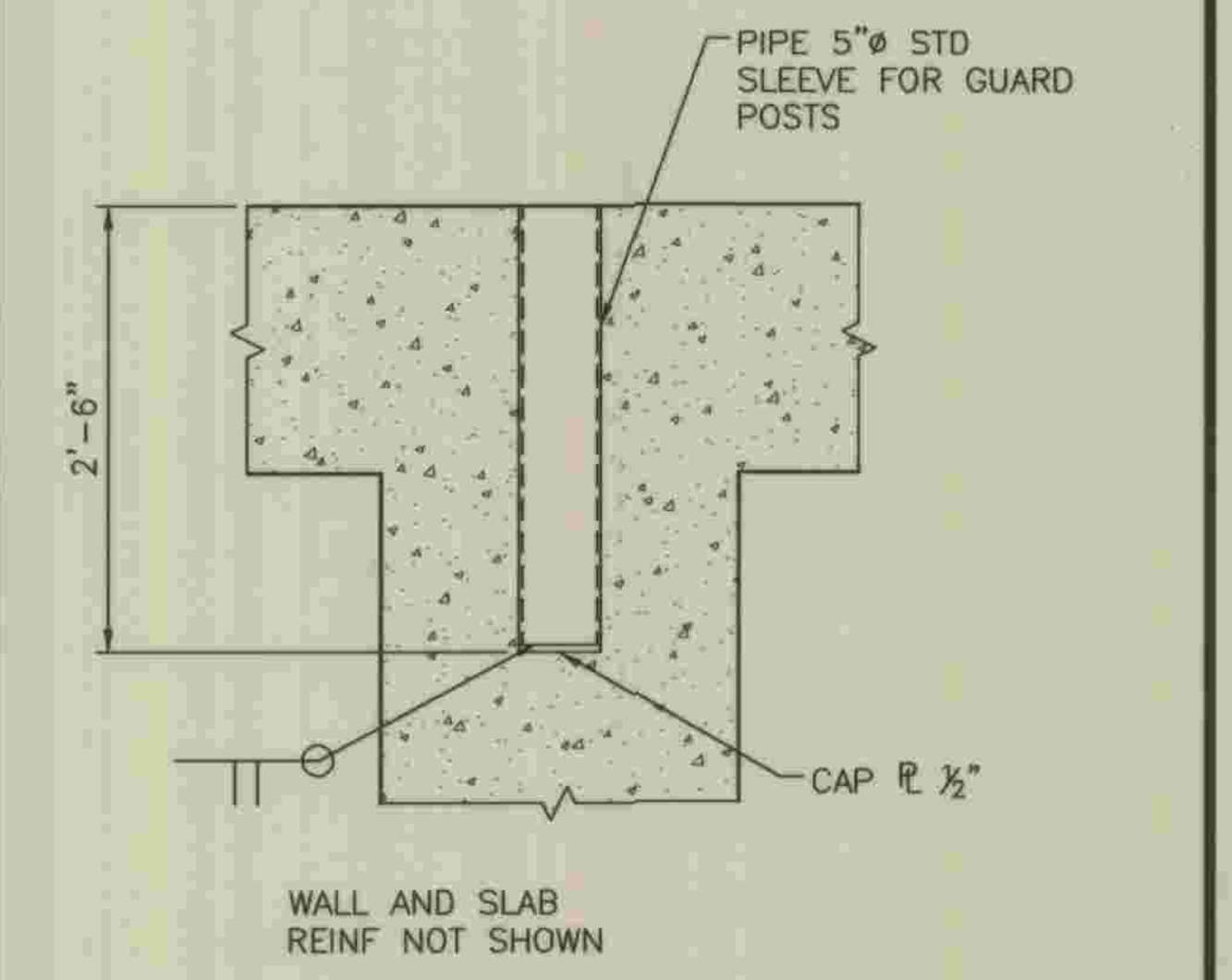
CURB & WALL FOOTING



SITE WALL



MUFFLER SUPPORT WALL PLATE



GUARD POST SLEEVE

CONTAINMENT CURB

CURB & WALL FOOTING

SITE WALL

MUFFLER SUPPORT WALL PLATE

GUARD POST SLEEVE



PLANS PREPARED BY
R2H ENGINEERING, INC.
CONSULTING STRUCTURAL ENGINEERS
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SAN DIEGO, CA 92127
PHONE (858) 673-8416
FAX (858) 673-8418

Devin A. Brown
5/28/09

DEVIN A. BROWN DATE

DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY

CHECKED *Peter Chang* 7.28.2009
DESIGN DIVISION DATE

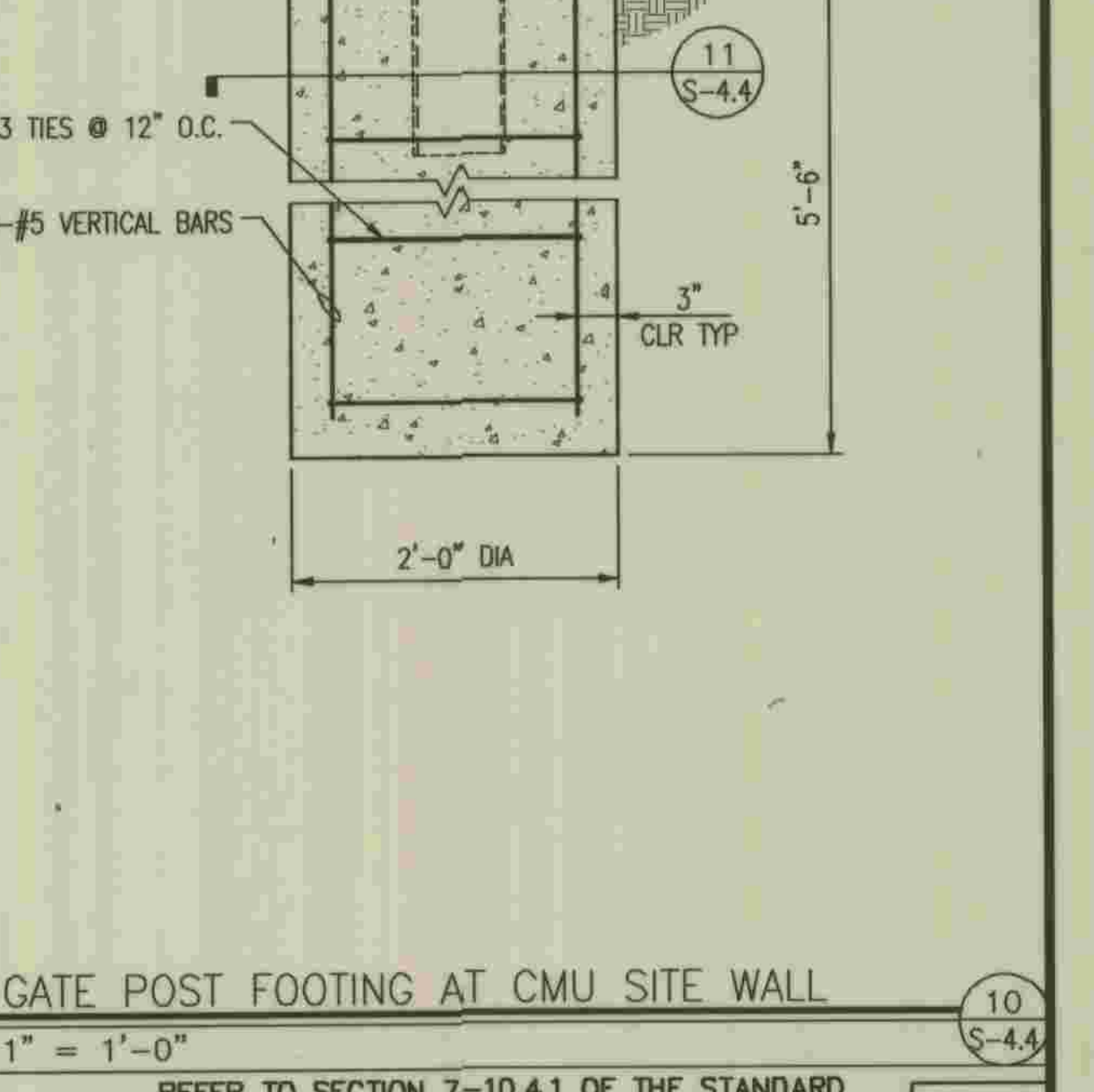
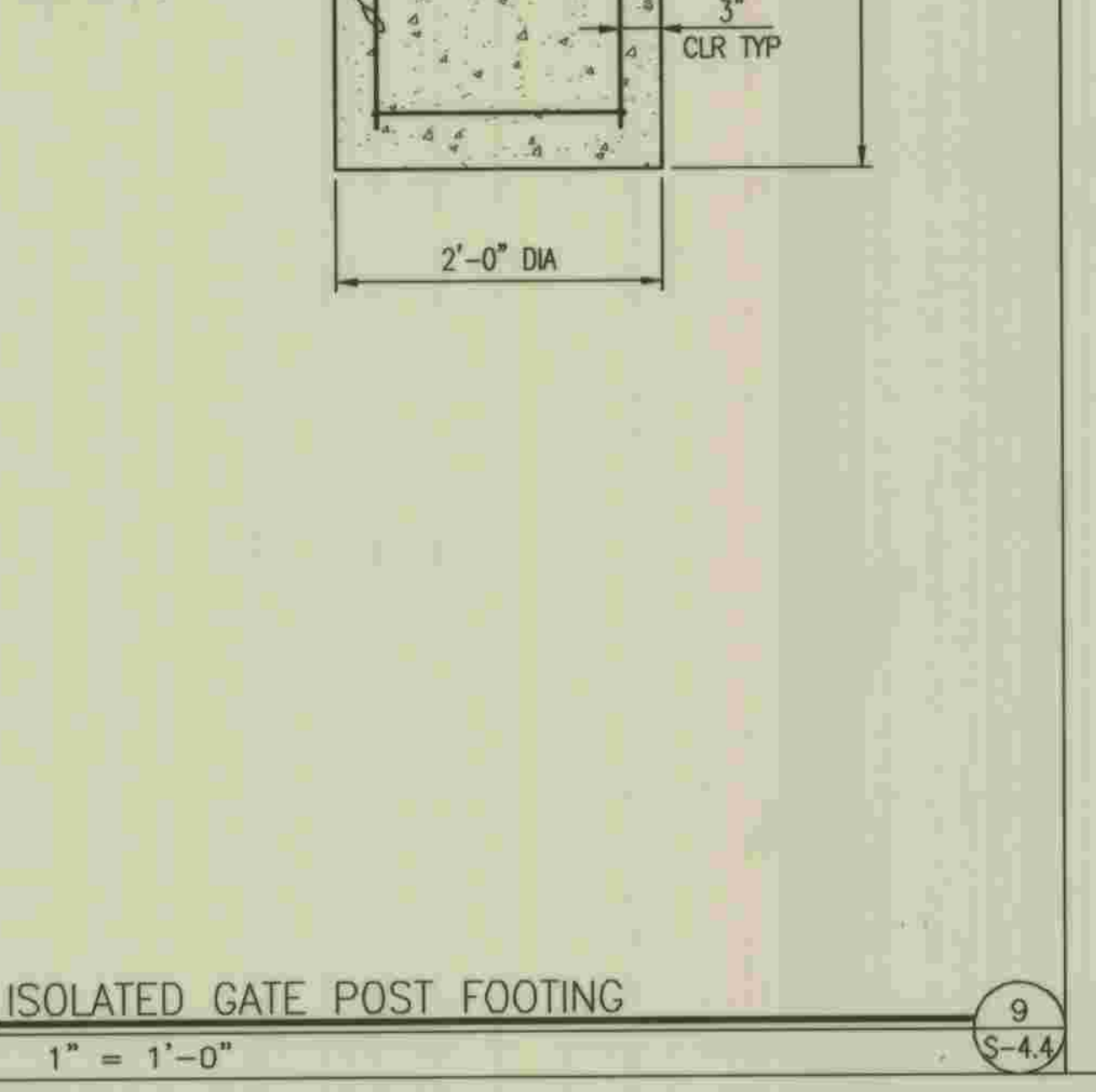
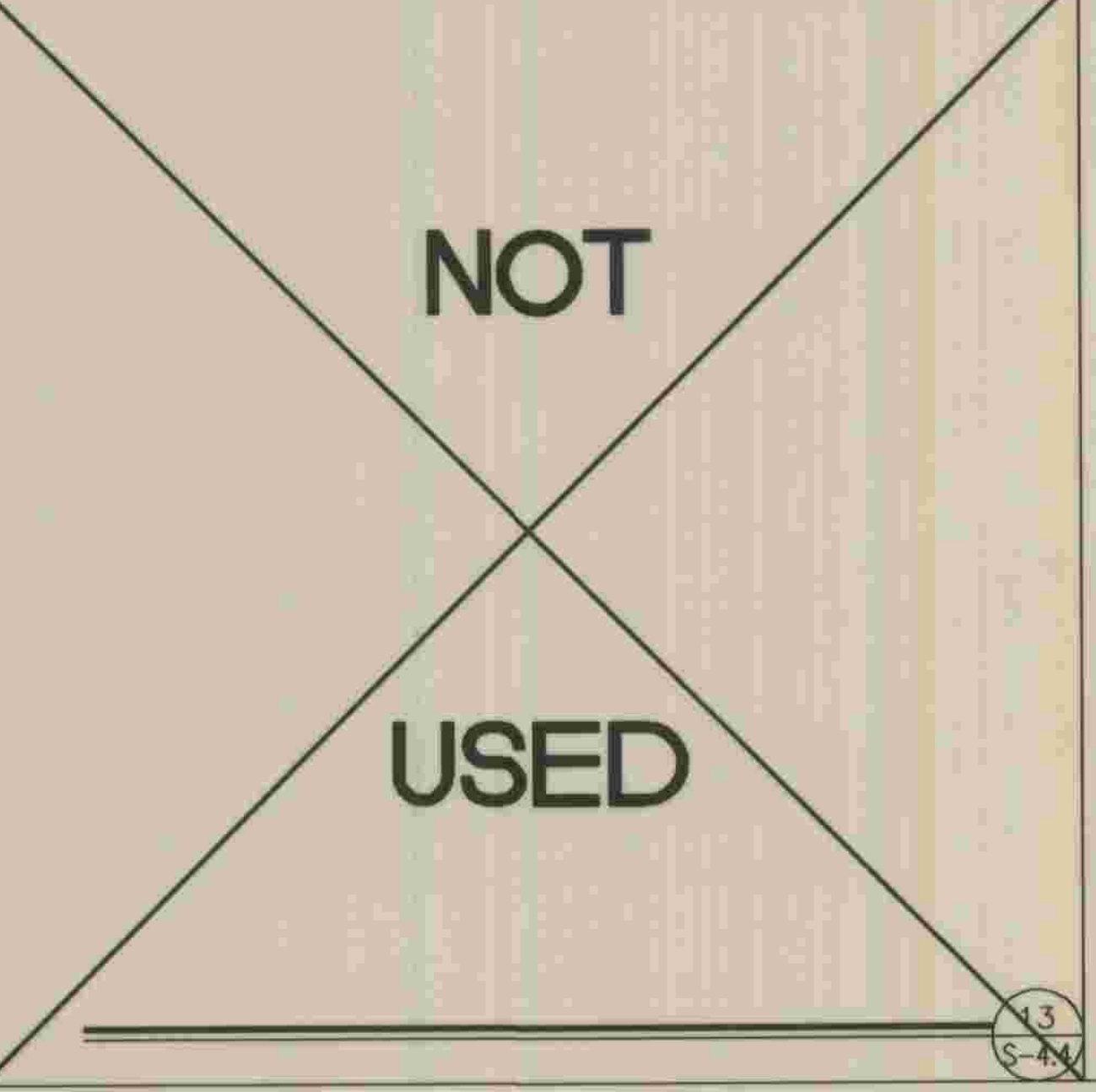
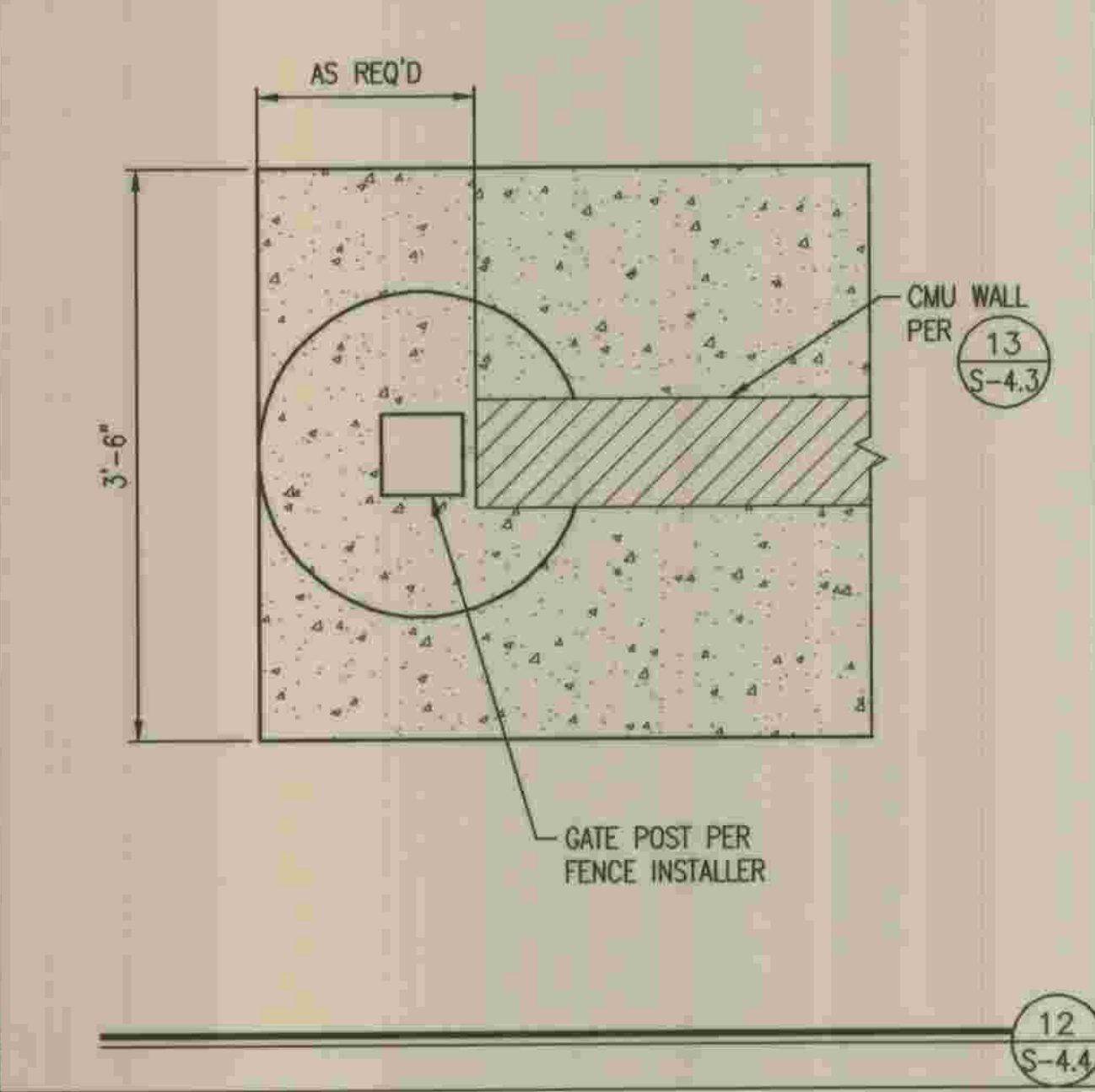
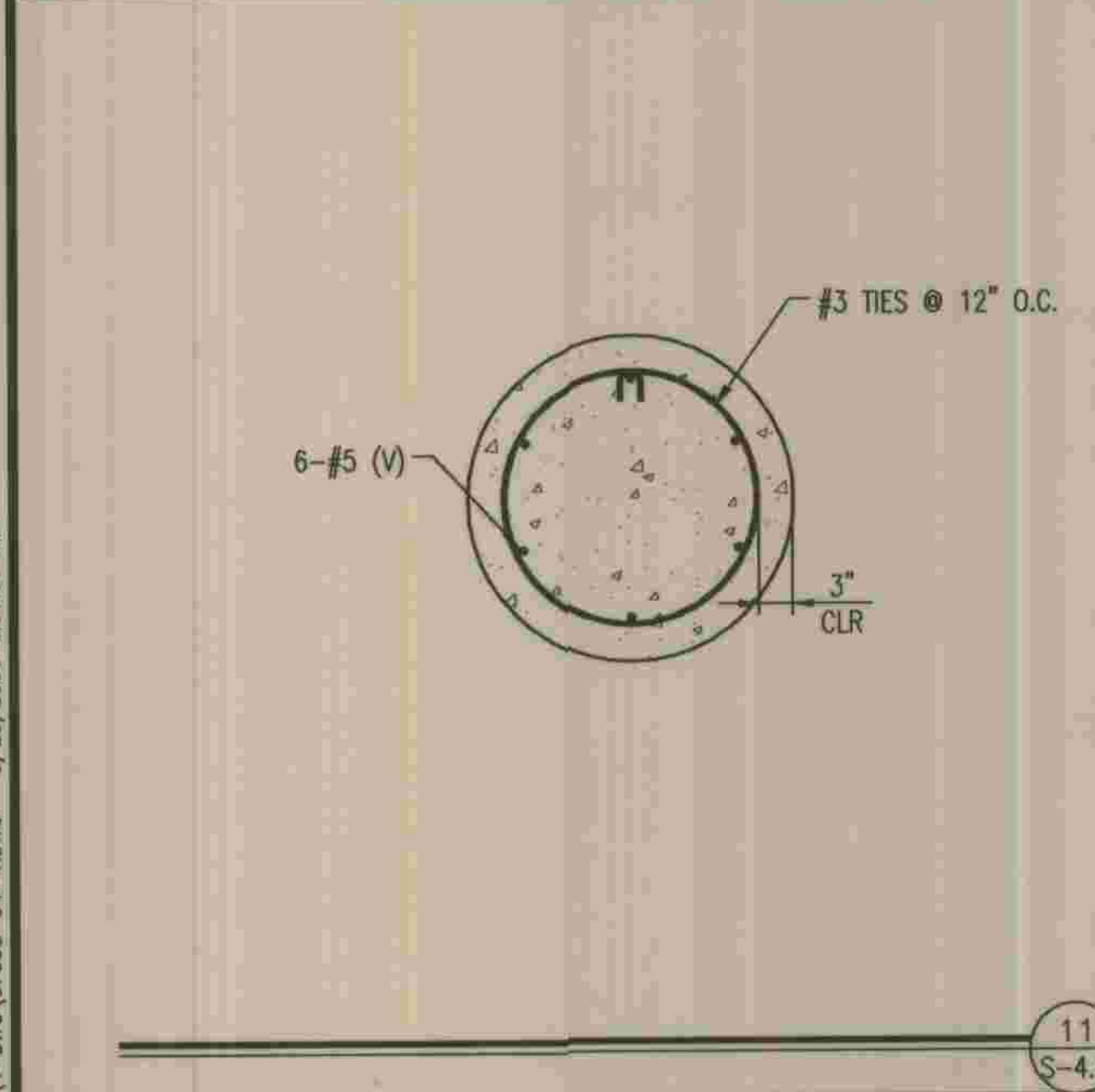
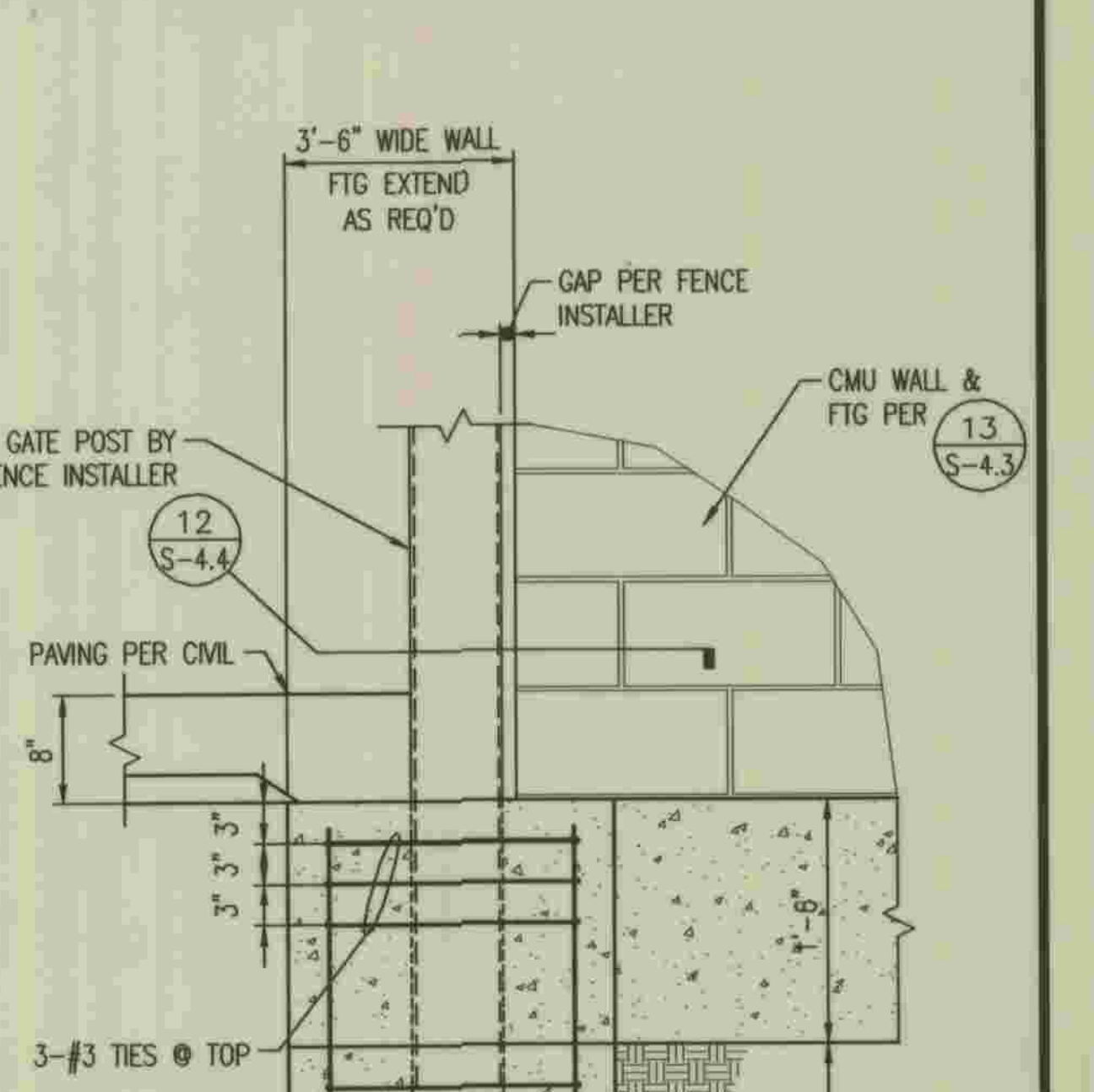
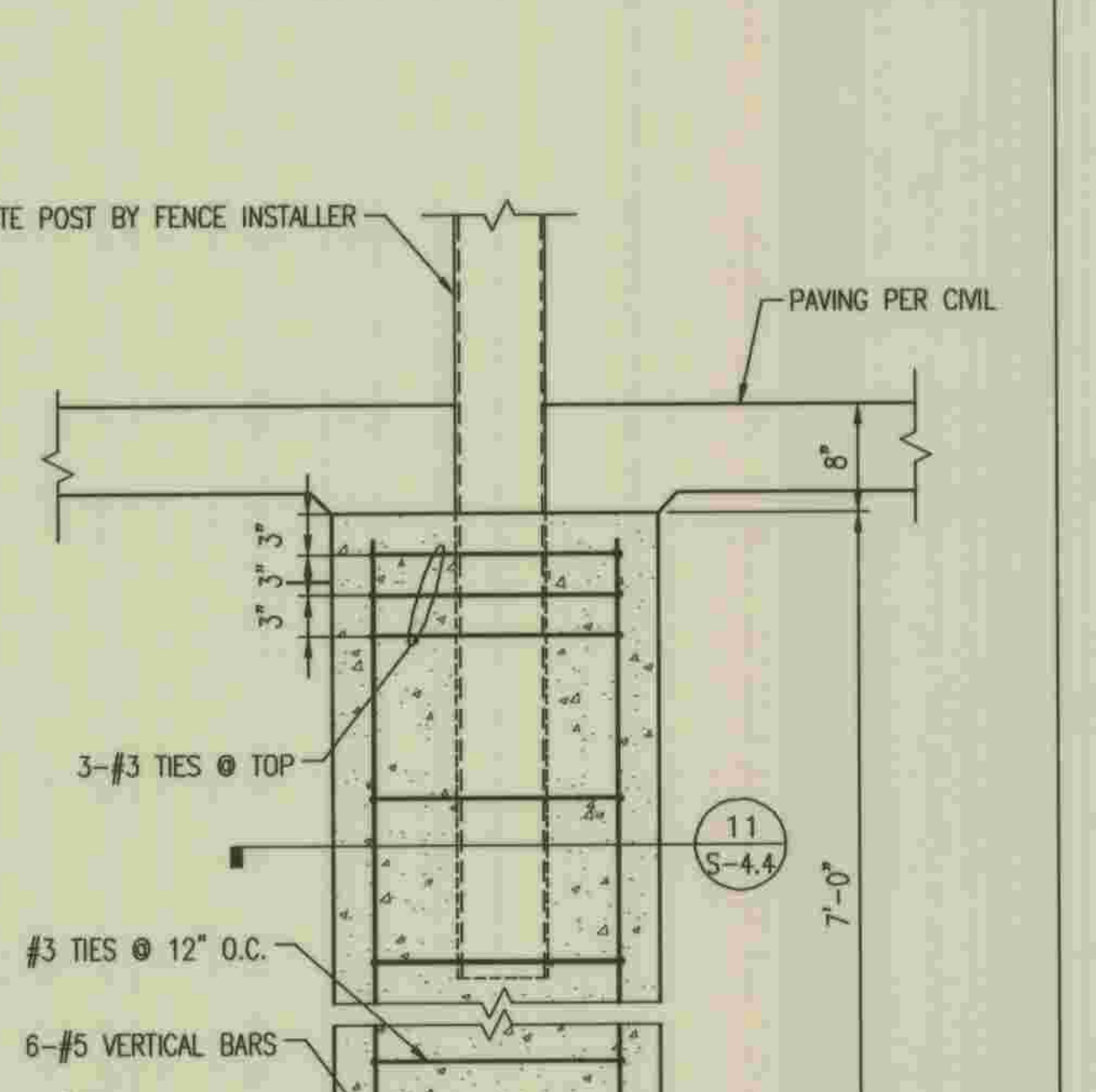
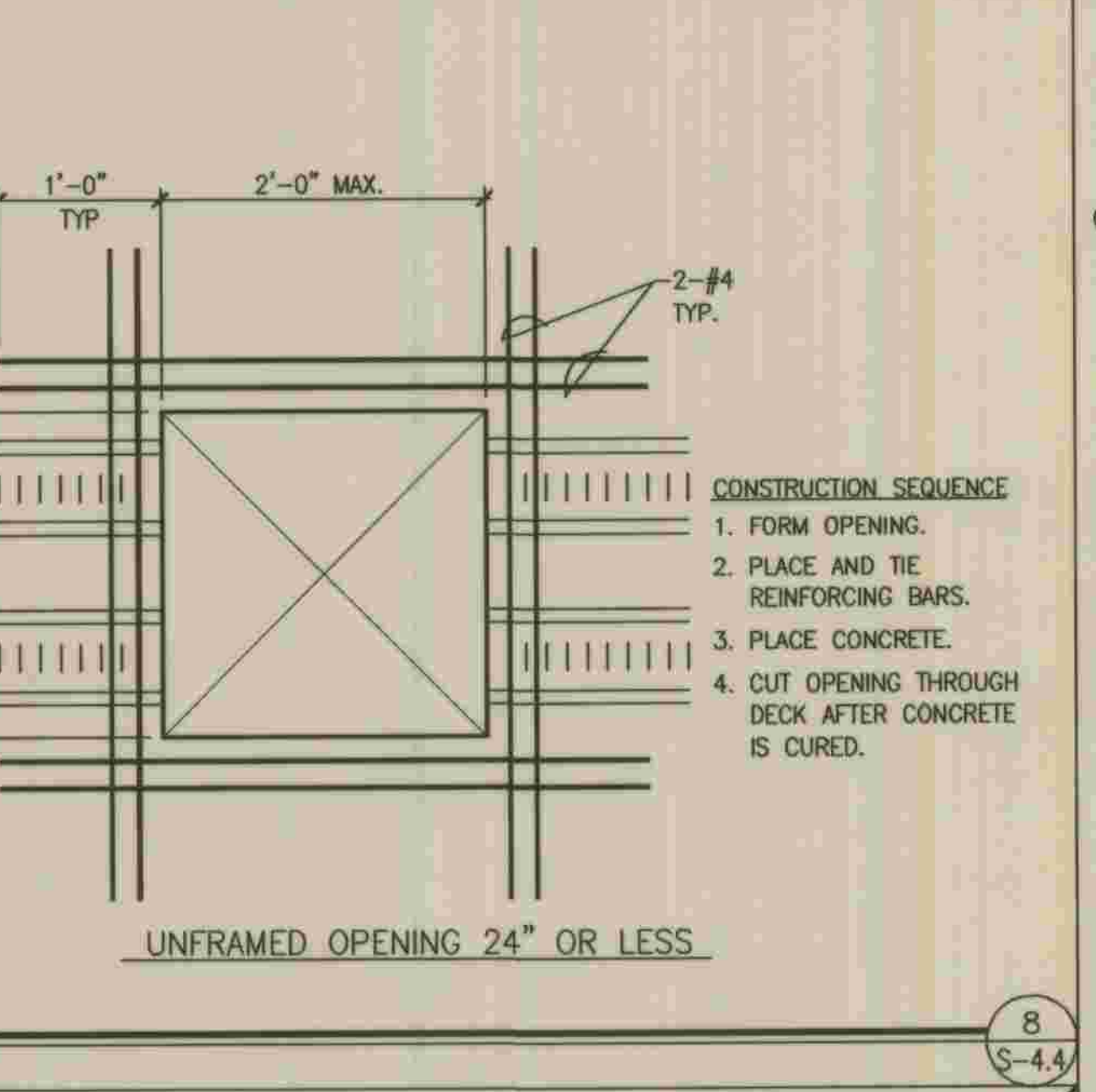
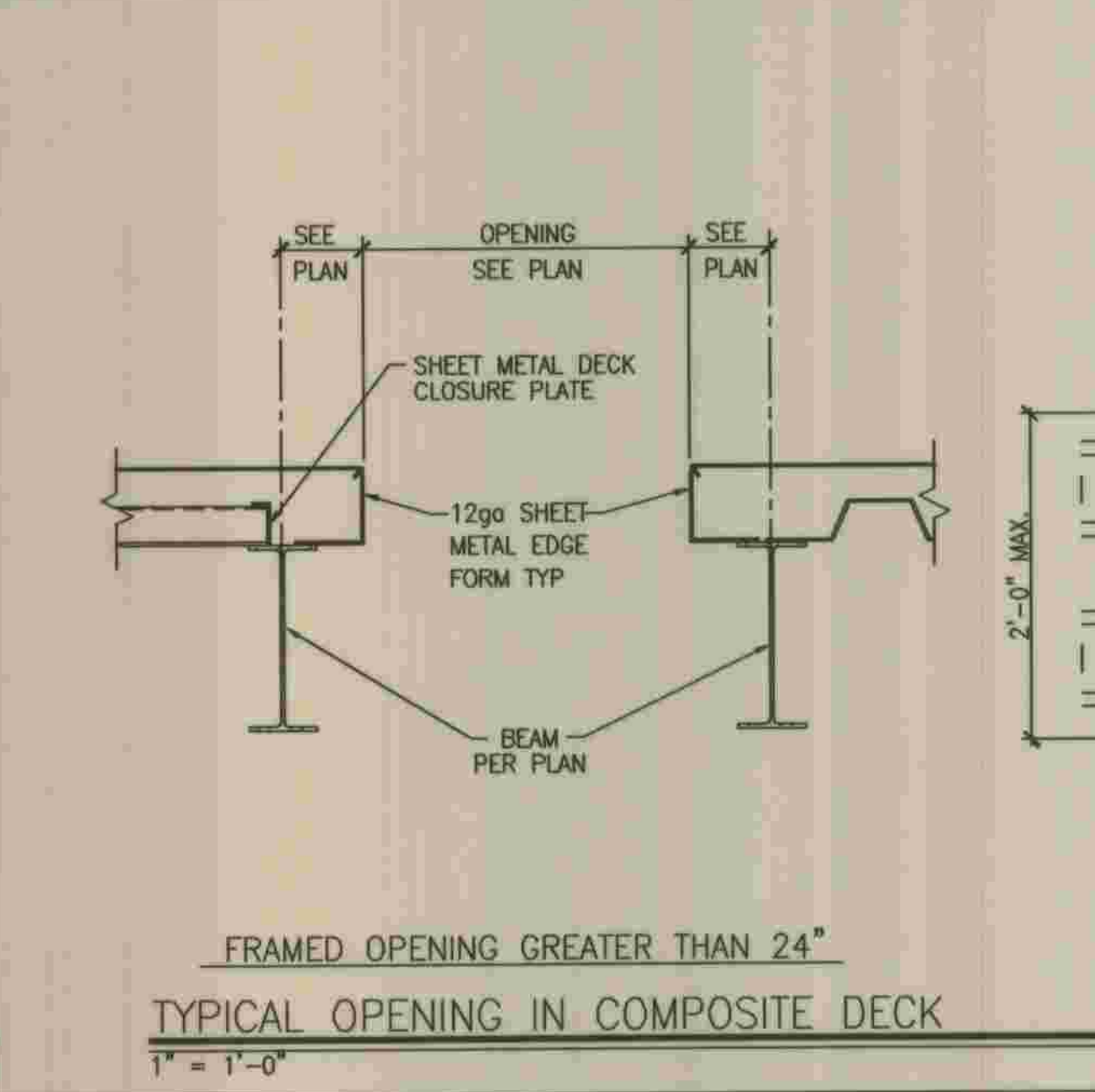
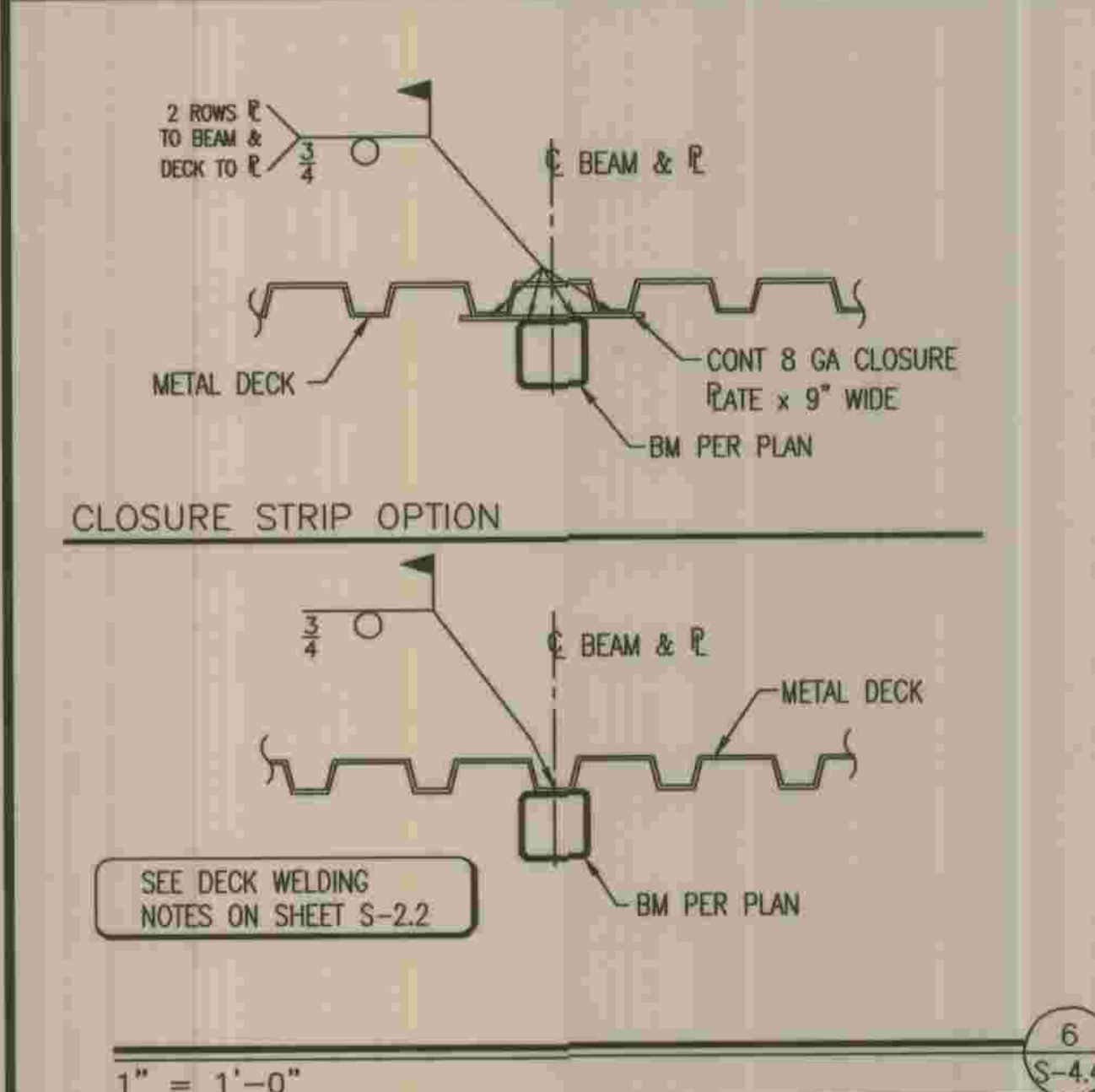
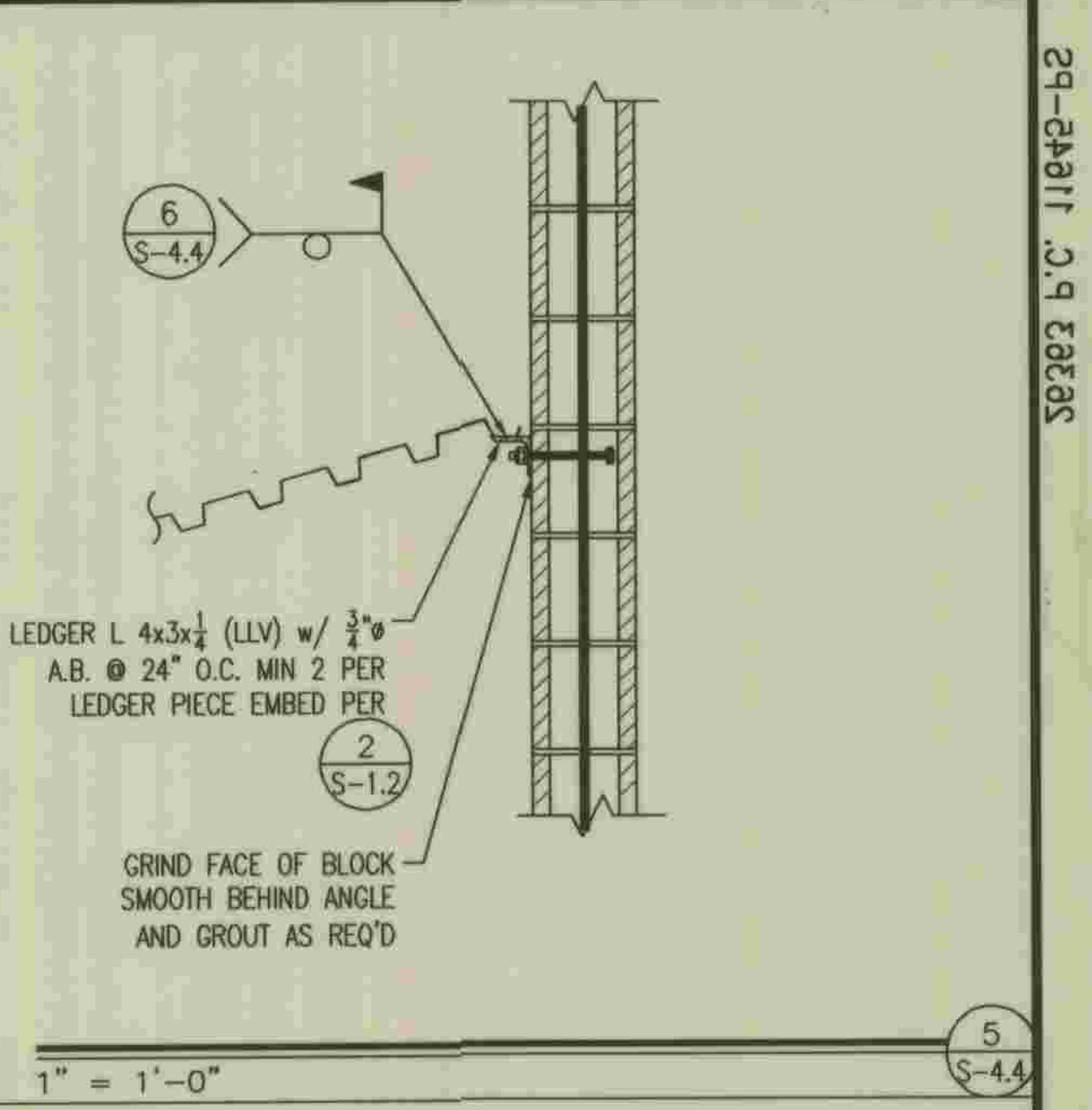
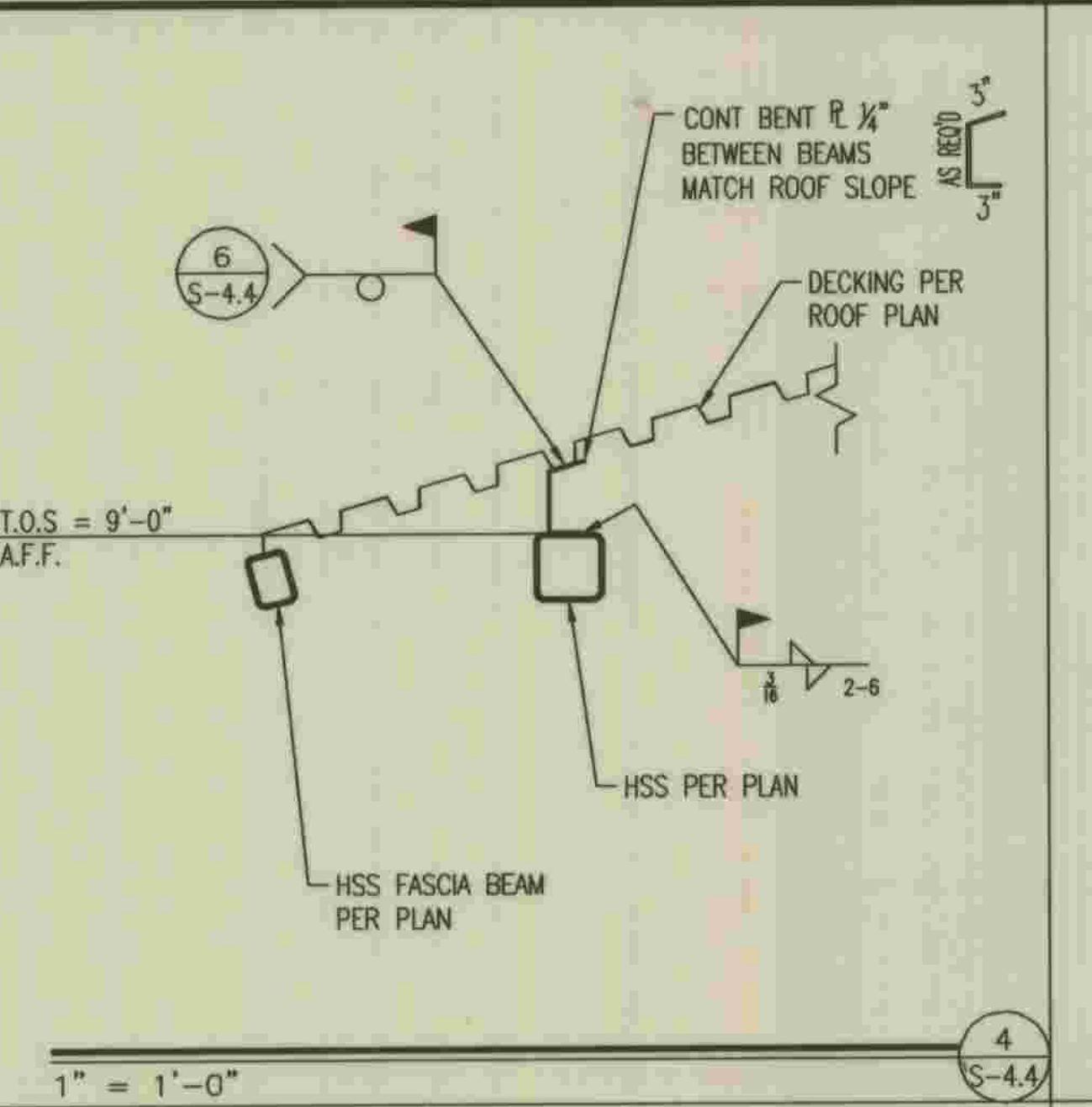
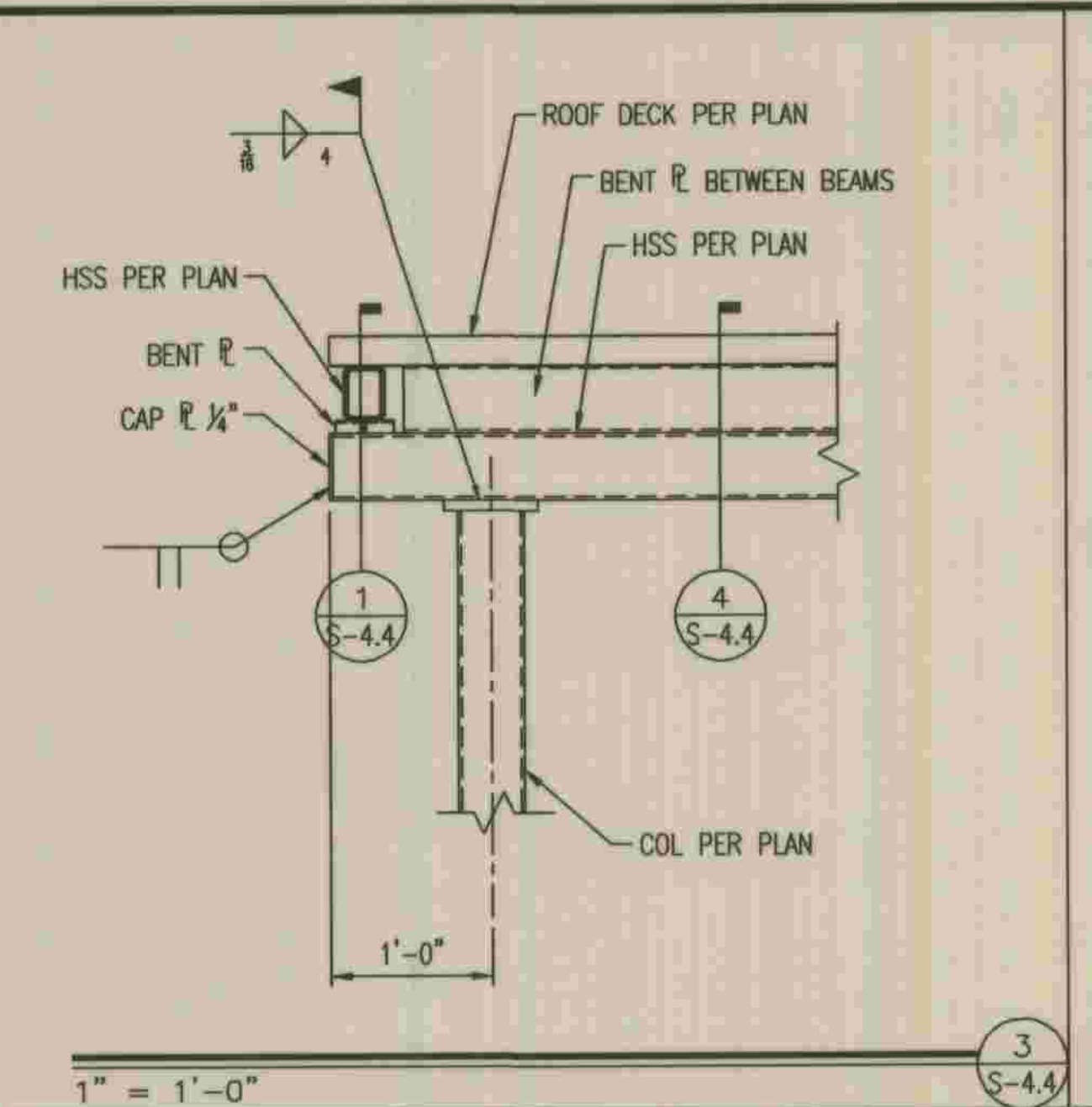
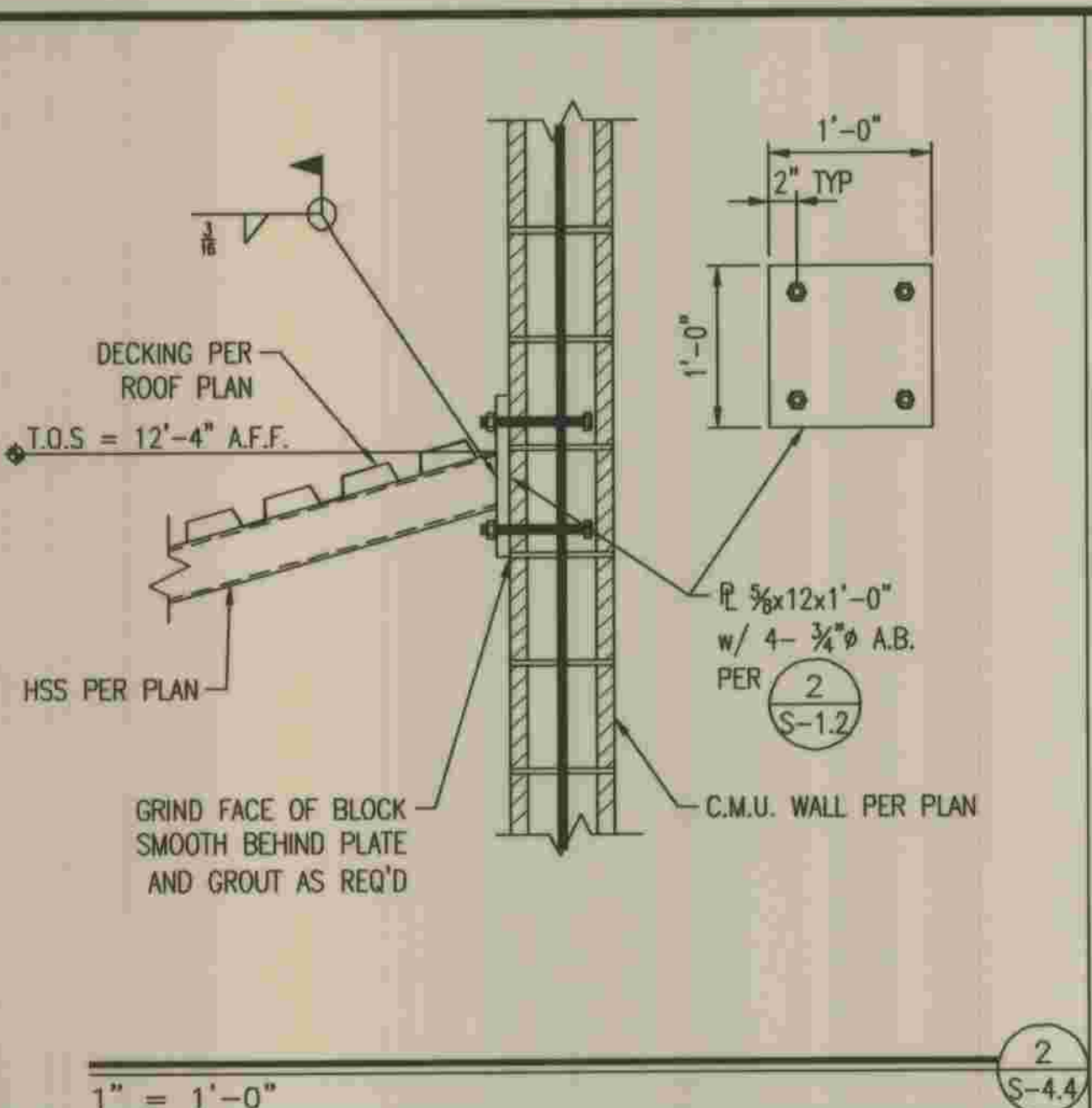
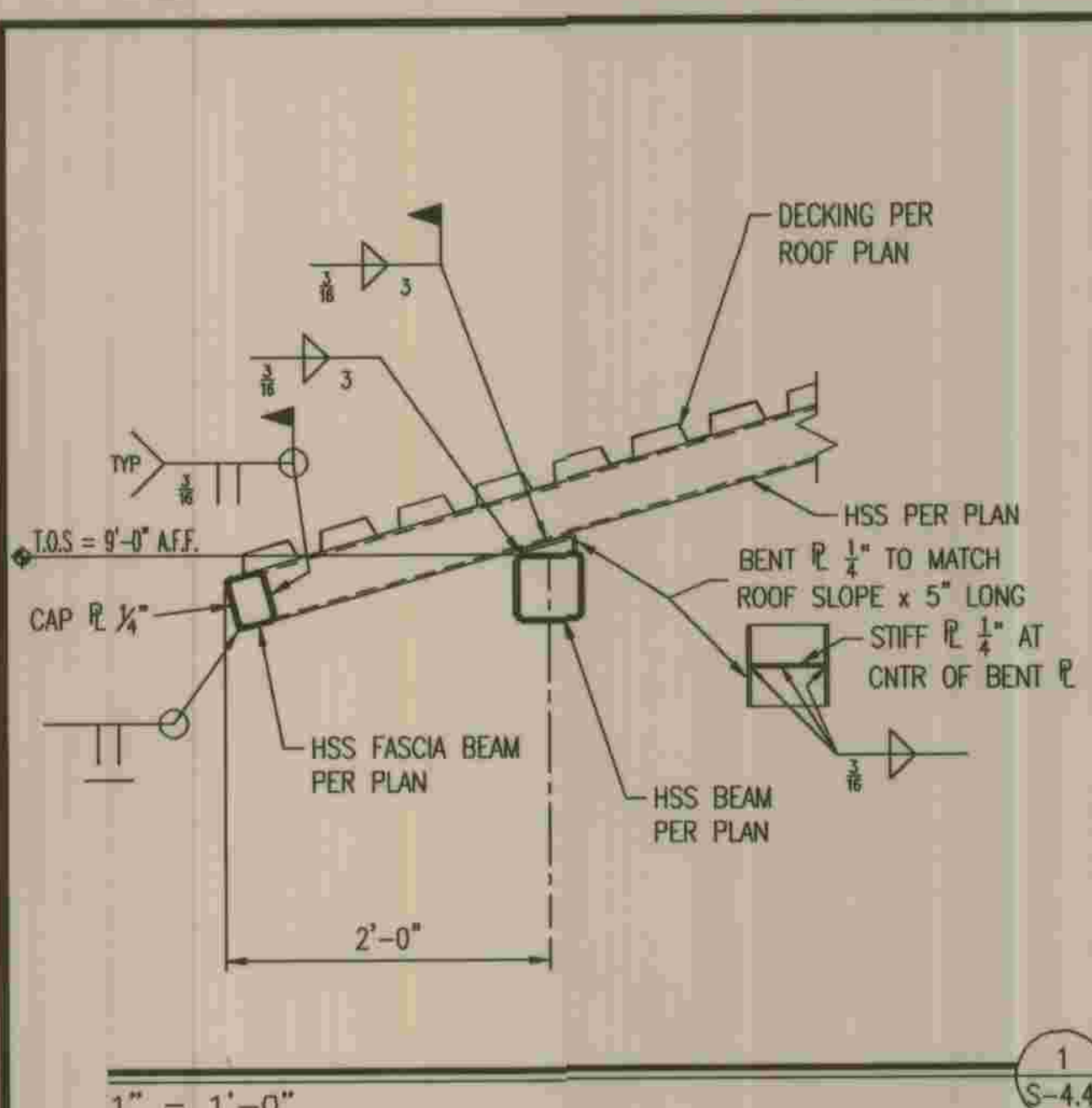
NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY

REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.

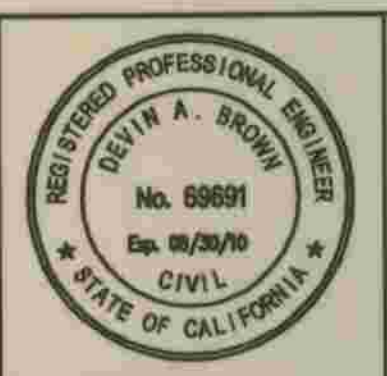
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PARCEL MAP NO. 26363	SPEC. NO.	SHEET
		31
	OF	61
STRUCTURAL DETAILS	DRAWING NO.	SHEETS

\\SAN DIEGO\PROJECTS\07_07058\1-DWG\07058-31-3.DWG 5/28/2009 8:38:39 AM

S-4.3 11x17-62



\\SANDEG0\PROJECTS\07\07058\4-DWG\07058-54-4.DWG 5/28/2009 8:39:53 AM



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 CONSULTING STRUCTURAL ENGINEERS
 17150 VIA DEL CAMPO, SUITE 306
 SAN DIEGO, CA 92127
 PHONE (858) 673-8416
 FAX (858) 673-8418

DATE: 5/28/09
 DESIGNER: Devyn A. Brown

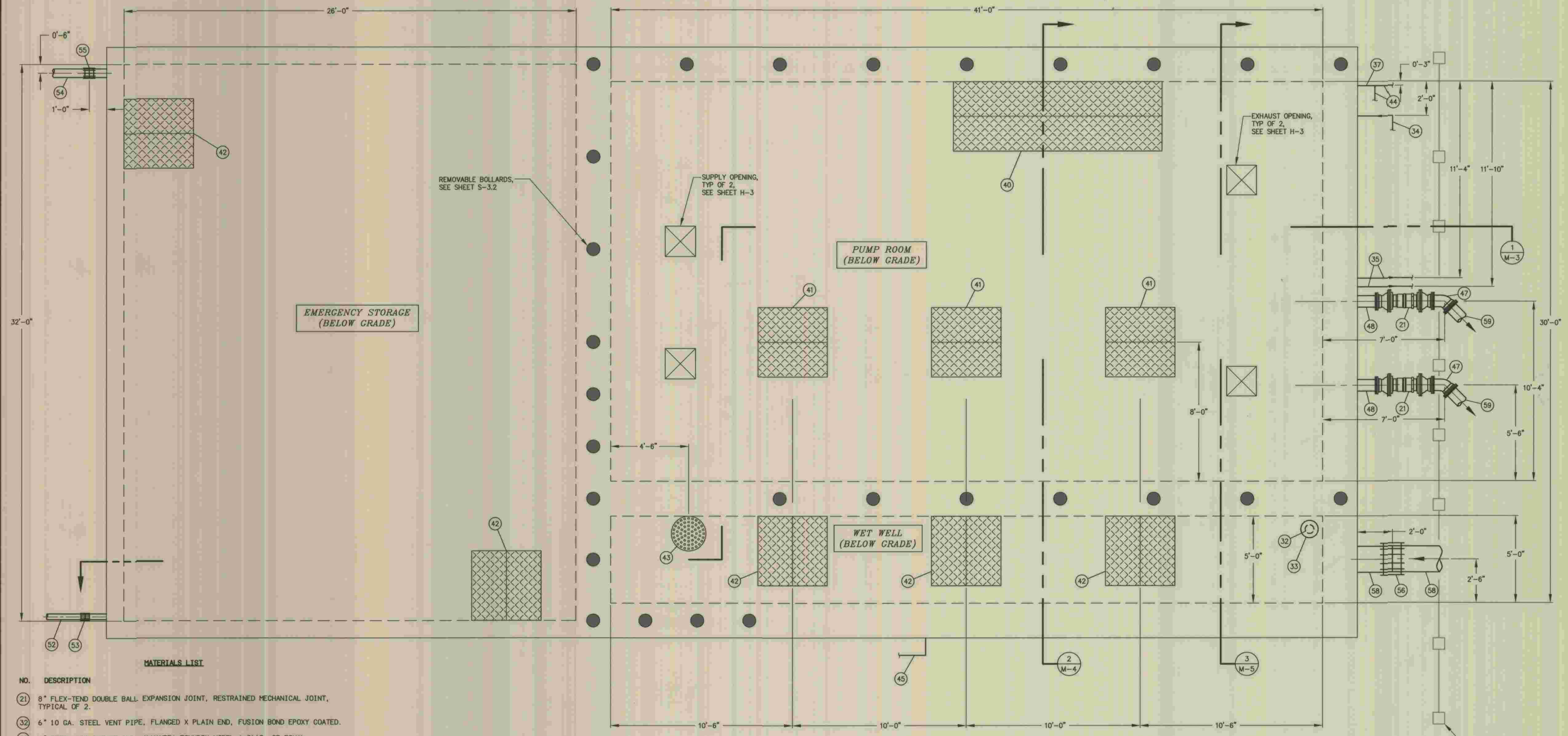
DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY

CHECKED: Peter Chang 7-28-2009
 DESIGN DIVISION

NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY

REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.

SPEC. NO.	S-4.4
SHEET	32
OF	61
DRAWING NO.	STRUCTURAL DETAILS



- MATERIALS LIST**
- | NO. | DESCRIPTION |
|-----|---|
| 21 | 8" FLEX-TEND DOUBLE BALL EXPANSION JOINT, RESTRAINED MECHANICAL JOINT, TYPICAL OF 2. |
| 32 | 6" 10 GA. STEEL VENT PIPE, FLANGED X PLAIN END, FUSION BOND EPOXY COATED. |
| 33 | 6" STEEL AIR INTAKE CAP, ALHAMBRA FOUNDRY MODEL A-2163, OR EQUAL. PROVIDE WITH INSECT SCREEN. FUSION BOND EPOXY COATED. |
| 34 | 1 1/2" SCH 40 316 STAINLESS STEEL AIR PIPING |
| 35 | 3/4" SCH 40 316 STAINLESS STEEL AIR PIPING |
| 37 | 1" COPPER TYPE K WATER LINE |
| 40 | 4'-0" X 12'-0" CLEAR OPENING ACCESS HATCH. COVER CAN BE SEGMENTED AS ONE OR TWO PANELS. PANEL(S) TO BE HINGED ALUMINUM CHECKER PLATE WITH RECESSED LOCKING HASP. PANEL(S) SHALL BE RATED FOR 300 PSF LOAD. EACH PANEL SHALL HAVE SPRING ASSISTED OPENING MECHANISM REQUIRING A MAXIMUM OF 40 LB PULL TO OPEN WITH AUTOMATIC POSITIVE HOLD-OPEN MECHANISM. PROVIDE A SINGLE, HINGED ACCESS, RECESSED, LOCKING HASP CAPABLE OF SECURING ALL PANELS. ALL HARDWARE TO BE 316 STAINLESS STEEL. CHANNEL FRAME WITH 1 1/2" DRAIN COUPLING. BILCO, USF FABRICATION, OR EQUAL. |
| 41 | 4'-0" X 4'-0" CLEAR OPENING ACCESS HATCH WITH SAFETY GRATE. COVER SEGMENTED AS TWO PANELS. PANELS TO BE HINGED ALUMINUM CHECKER PLATE WITH RECESSED LOCKING HASP. PANELS SHALL BE RATED FOR 300 PSF LOAD. EACH PANEL SHALL HAVE SPRING ASSISTED OPENING MECHANISM REQUIRING A MAXIMUM OF 40 LB PULL TO OPEN WITH AUTOMATIC POSITIVE HOLD-OPEN MECHANISM. PROVIDE A SINGLE, HINGED ACCESS, RECESSED, LOCKING HASP CAPABLE OF SECURING ALL PANELS. ALL HARDWARE TO BE 316 STAINLESS STEEL. CHANNEL FRAME WITH 1 1/2" DRAIN COUPLING. BILCO, USF FABRICATION, OR EQUAL. |
| 42 | 4'-0" X 4'-0" CLEAR OPENING ACCESS HATCH WITH SAFETY GRATE. COVER SEGMENTED AS TWO PANELS. PANELS TO BE HINGED ALUMINUM CHECKER PLATE WITH RECESSED LOCKING HASP. PANELS SHALL BE RATED FOR H-20 LOAD. EACH PANEL SHALL HAVE SPRING ASSISTED OPENING MECHANISM REQUIRING A MAXIMUM OF 40 LB PULL TO OPEN WITH AUTOMATIC POSITIVE HOLD-OPEN MECHANISM. PROVIDE A SINGLE, HINGED ACCESS, RECESSED, LOCKING HASP CAPABLE OF SECURING ALL PANELS. ALL HARDWARE TO BE 316 STAINLESS STEEL. BILCO, USF FABRICATION, OR EQUAL. |

- MATERIALS LIST**
- | NO. | DESCRIPTION |
|-----|---|
| 43 | 2'-0" CAST IRON FRAME AND COVER PER APWA 210-2 |
| 44 | 1 1/4" COPPER TYPE K WATER LINE |
| 45 | 1 1/4" SCH 40 316 STAINLESS STEEL AIR PIPING |
| 47 | 8" DUCTILE IRON PIPE, 45 DEGREE ELBOW, MJ RESTRAINED |
| 48 | 8" DUCTILE IRON PIPE SPOOL, FLANGED X PLAIN END, WITH WALL COLLAR |
| 52 | 4" ABS SANITARY SEWER PIPE AND FITTINGS. |
| 53 | 4" FLEXIBLE COUPLING |
| 54 | 6" SCHEDULE 80 PVC WASHDOWN WATER PIPE AND FITTINGS. |
| 55 | 6" FLEXIBLE COUPLING, TYPICAL OF 1. |
| 56 | 18" FLEXIBLE COUPLING, TYPICAL OF 1. |
| 58 | 18" DUCTILE IRON PIPE GRAVITY SEWER. |
| 59 | 8" DUCTILE IRON PIPE BURIED FORCE MAIN. |

PUMP BUILDING TOP PLAN
SCALE: 3/8" = 1'-0"



PLANS PREPARED BY
DEXTER WILSON ENGINEERING, INC.
CONSULTING ENGINEERS
2234 FARADAY AVENUE
CARLSBAD, CA 92008 (760) 438-4422

Andrew Owen 5-29-09
ANDREW M. OWEN DATE

DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY

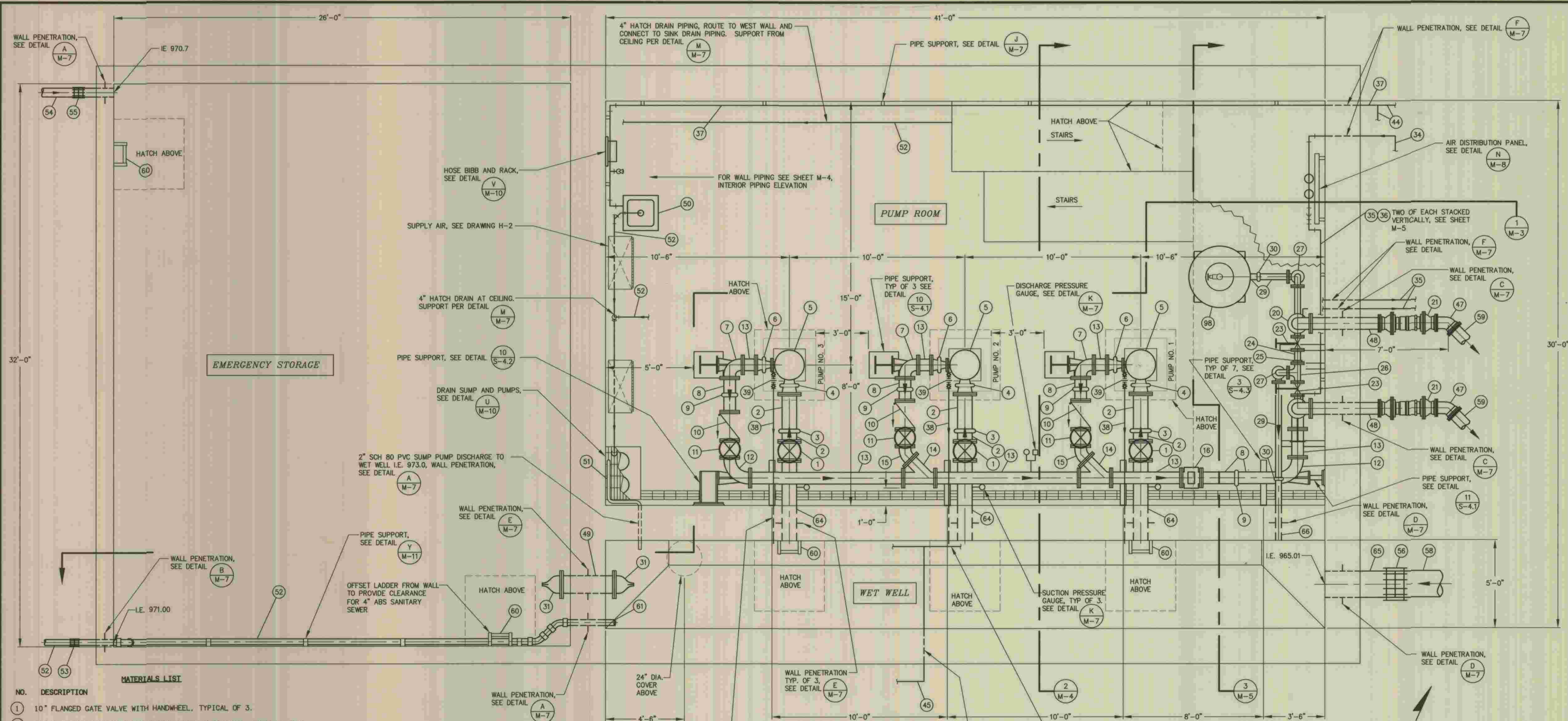
CHECKED *Pete Blay* 7-28-2009
DESIGN DIVISION DATE

NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY

REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PARCEL MAP NO. 26363	SPEC. NO. OF JOB NO. DRAWING NO.	M-1 SHEET 33 OF 61 SHEETS
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- MATERIALS LIST**
- | NO. | DESCRIPTION |
|-----|---|
| 1 | 10" FLANGED GATE VALVE WITH HANDWHEEL, TYPICAL OF 3. |
| 2 | 10" FLANGED BY GROOVED END DUCTILE IRON PIPE SPOOL, TYPICAL OF 6. |
| 3 | 10" STYLE 31 VICTAULIC COUPLING, TYPICAL OF 3. |
| 4 | 10" X SIZE TO FIT SELECTED PUMP SUCTION, FLANGED, ECCENTRIC REDUCER SINGLE ARCH EXPANSION JOINT, TYPICAL OF 3. |
| 5 | ESSCO 4X12FT DRY PIT RECESSED IMPELLER SUBMERSIBLE RAW SEWAGE PUMP, CAPABLE OF DELIVERING 710 GPM AT 104 FEET TOTAL DYNAMIC HEAD. PUMP SHALL BE DRIVEN BY 40 HORSEPOWER, 1750 RPM, 480 VOLT, THREE PHASE MOTOR. SEE SEWAGE PUMP AND MOTOR SPECIFICATIONS, TYPICAL OF 3. |
| 6 | SIZE TO FIT SELECTED PUMP DISCHARGE X 8" CONCENTRIC REDUCER SINGLE ARCH EXPANSION JOINT, FLANGED, TYPICAL OF 3. |
| 7 | 8" FLANGED DUCTILE IRON PIPE 90 DEGREE BASE ELBOW, TYPICAL OF 3. |
| 8 | 8" FLANGED BY GROOVED END DUCTILE IRON PIPE SPOOL, TYPICAL OF 10. |
| 9 | 8" STYLE 31 VICTAULIC COUPLING, TYPICAL OF 5. |
| 10 | 8" FLANGED CHECK VALVE, SPRING LOADED, TYPICAL OF 3. |
| 11 | 8" FLANGED GATE VALVE WITH HANDWHEEL, TYPICAL OF 5. |
| 12 | 8" FLANGED DUCTILE IRON PIPE LONG RADIUS 90 DEGREE BASE ELBOW, TYPICAL OF 2. |
| 13 | 8" FLANGED DUCTILE IRON PIPE SPOOL, TYPICAL OF 8. |
| 14 | 8" X 8" X 8" FLANGED DUCTILE IRON PIPE WYE, TYPICAL OF 2. |
| 15 | 8" FLANGED DUCTILE IRON PIPE 45 DEGREE ELBOW, TYPICAL OF 2. |
| 16 | 8" FLANGED MAGNETIC FLOW METER. |
| 19 | 8" FLANGED DUCTILE IRON PIPE 90 DEGREE ELBOW, TYPICAL OF 2. |
| 20 | 8" FLANGED DUCTILE IRON PIPE 90 DEGREE ELBOW, WITH 1/2" THREADED TAP, TYPICAL OF 2. |
| 21 | 8" FLEX-TEND DOUBLE BALL EXPANSION JOINT, RESTRAINED MECHANICAL JOINT, TYPICAL OF 2. |

- | NO. | DESCRIPTION |
|-----|---|
| 23 | 4" FLANGED GATE VALVE WITH HANDWHEEL, TYPICAL OF 3. |
| 24 | 4" FLANGED BY PLAIN END DUCTILE IRON PIPE SPOOL, TYPICAL OF 1. |
| 25 | 4" DUCTILE IRON FLANGE COUPLING ADAPTOR, TYPICAL OF 1. |
| 26 | 4" X 4" X 4" FLANGED DUCTILE IRON TEE, TYPICAL OF 1. |
| 27 | 4" FLANGED DUCTILE IRON PIPE 90 DEGREE ELBOW, TYPICAL OF 3. |
| 29 | 4" FLANGED BY GROOVED END DUCTILE IRON PIPE SPOOL, TYPICAL OF 3. |
| 30 | 4" STYLE 31 VICTAULIC COUPLING, TYPICAL OF 2. |
| 31 | 12" FLANGED FLEXIBLE SLEEVE DUCKBILL CHECK VALVE, TYPICAL OF 2. |
| 34 | 1 1/2" SCH 40 316 STAINLESS STEEL AIR PIPING |
| 35 | 3/4" SCH 40 316 STAINLESS STEEL AIR PIPING |
| 36 | 1/2" SCH 40 316 STAINLESS STEEL AIR PIPING |
| 37 | 1" COPPER TYPE K WATER LINE |
| 38 | 3/4" SCH 40 316 STAINLESS STEEL PUMP VENT LINE |
| 39 | 3/4" BALL VALVE (BY PUMP MANUFACTURER), THEN UNION AND BALL VALVE |

- | NO. | DESCRIPTION |
|-----|---|
| 44 | 1 1/4" COPPER TYPE K WATER LINE |
| 45 | 1 1/4" SCH 40 316 STAINLESS STEEL AIR PIPING |
| 47 | 8" DUCTILE IRON PIPE, 45 DEGREE ELBOW, MJ RESTRAINED |
| 48 | 8" DUCTILE IRON PIPE SPOOL, FLANGED X PLAIN END, WITH WALL COLLAR |
| 49 | 12" DUCTILE IRON PIPE SPOOL, FLANGED X PLAIN END, WITH WALL COLLAR |
| 50 | WALL MOUNTED UTILITY SINK AND FACET, FIBERGLASS REINFORCED PLASTIC, RUST AND CORROSION RESISTANT, 20 GALLON MINIMUM CAPACITY. |
| 51 | 2" SCHEDULE 80 PVC SUMP PUMP DISCHARGE PIPE AND FITTINGS. |
| 52 | 4" ABS SANITARY SEWER PIPE AND FITTINGS. |
| 53 | 4" FLEXIBLE COUPLING |
| 54 | 6" SCHEDULE 80 PVC WASHDOWN WATER PIPE AND FITTINGS. |

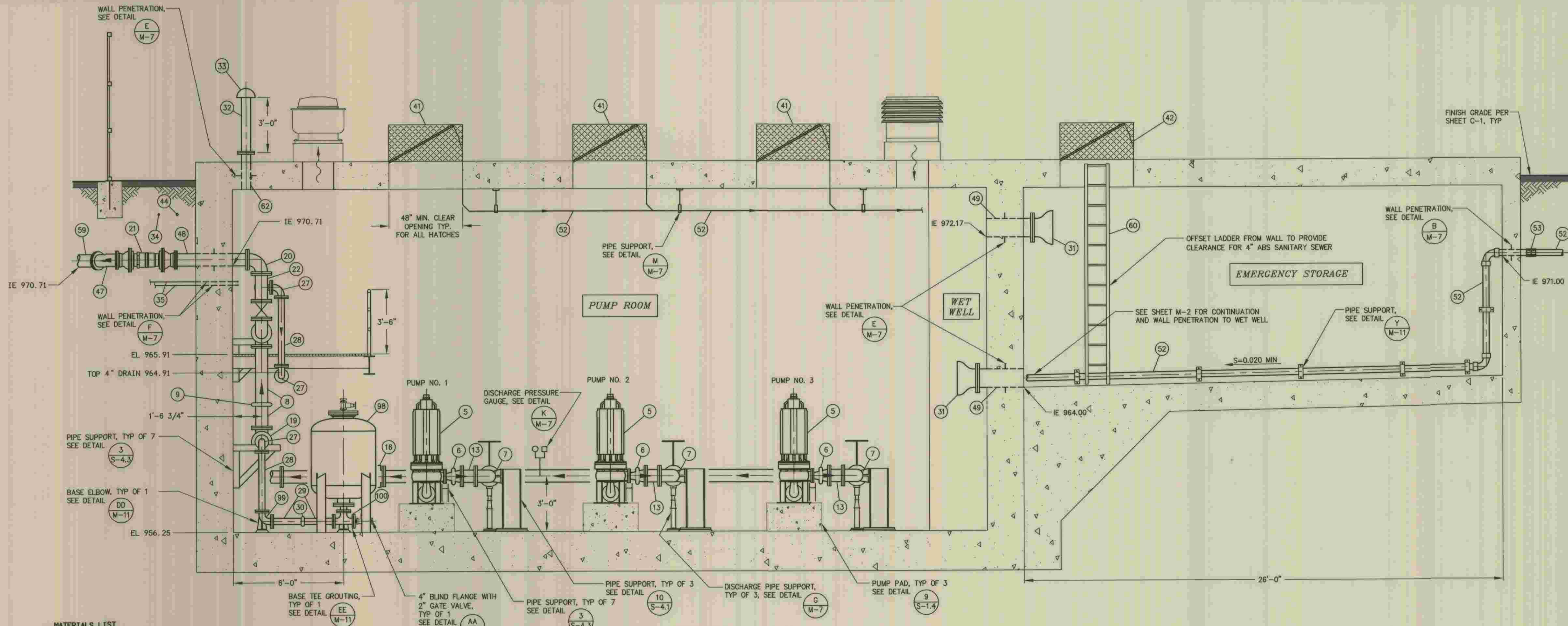
- | NO. | DESCRIPTION |
|-----|--|
| 55 | 6" FLEXIBLE COUPLING, TYPICAL OF 1. |
| 56 | 18" FLEXIBLE COUPLING, TYPICAL OF 1. |
| 58 | 18" DUCTILE IRON PIPE GRAVITY SEWER. |
| 59 | 8" DUCTILE IRON PIPE BURIED FORCE MAIN. |
| 60 | 316 STAINLESS STEEL LADDER WITH 316 STAINLESS STEEL TELESCOPING EXTENSION DEVICE FOR LADDER ACCESS. MOUNT LADDER TO WALL WITH 316 STAINLESS STEEL ANCHOR BOLTS. 16" LADDER WIDTH AND 12" RUNG SPACING. |
| 61 | 4" FLAP GATE, COPLASTIX UNIFLAP 150, OR EQUIVALENT |
| 64 | 10" DUCTILE IRON PIPE SPOOL, FLANGED X PLAIN END, WITH WALL COLLAR |
| 65 | 18" DUCTILE IRON PIPE SPOOL, PLAIN END, WITH WALL COLLAR |

- | NO. | DESCRIPTION |
|-----|---|
| 66 | 4" DUCTILE IRON PIPE SPOOL, GROOVED END X PLAIN END, WITH WALL COLLAR |
| 98 | 200 GALLON SURGE TANK. SEE SPECIFICATION SECTION 11900. |

WET WELL / DRY WELL PLAN
SCALE: 3/8" = 1'-0"

REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.

	PLANS PREPARED BY DEXTER WILSON ENGINEERING, INC. CONSULTING ENGINEERS 2234 FARADAY AVENUE CARLSBAD, CA 92008 (760) 438-4422 <i>Andrew Owen</i> 5-29-09 ANDREW M. OWEN DATE	DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY CHECKED <i>Peter Chang</i> 7-28-2009 DESIGN DIVISION DATE	<table border="1"> <tr><th>NO.</th><th>DATE</th><th>DRAWN BY</th><th>CHECK BY</th><th>REVISION</th><th>APPR'D BY</th><th>APPR'D BY</th></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY								M-2 SHEET 34 OF 61 SHEETS
	NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY											
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PARCEL MAP NO. 25383 WET WELL/DRY WELL PLAN			SPEC. NO. OF JOB NO. DRAWING NO.															



MATERIALS LIST

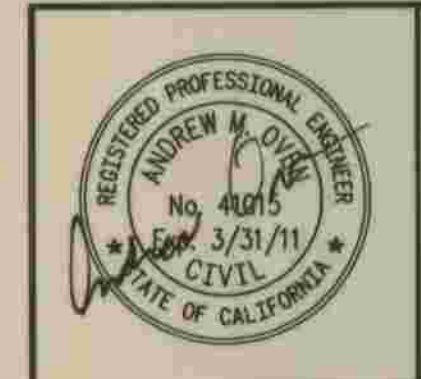
- | NO. | DESCRIPTION |
|-----|---|
| 5 | ESSCO 4X12TF DRY PIT RECESSED IMPELLER SUBMERSIBLE RAW SEWAGE PUMP, CAPABLE OF DELIVERING 710 GPM AT 104 FEET TOTAL DYNAMIC HEAD. PUMP SHALL BE DRIVEN BY 40 HORSEPOWER, 1750 RPM, 480 VOLT, THREE PHASE MOTOR. SEE SEWAGE PUMP AND MOTOR SPECIFICATIONS. TYPICAL OF 3. |
| 6 | SIZE TO FIT SELECTED PUMP DISCHARGE X 8" CONCENTRIC REDUCER SINGLE ARCH EXPANSION JOINT, FLANGED, TYPICAL OF 3. |
| 7 | 8" FLANGED DUCTILE IRON PIPE 90 DEGREE BASE ELBOW, TYPICAL OF 3. |
| 8 | 8" FLANGED BY GROOVED END DUCTILE IRON PIPE SPOOL, TYPICAL OF 10. |
| 9 | 8" STYLE 31 VICTAULIC COUPLING, TYPICAL OF 5. |
| 11 | 8" FLANGED GATE VALVE WITH HANDWHEEL, TYPICAL OF 5. |
| 12 | 8" FLANGED DUCTILE IRON PIPE LONG RADIUS 90 DEGREE BASE ELBOW, TYPICAL OF 2. |
| 13 | 8" FLANGED DUCTILE IRON PIPE SPOOL, TYPICAL OF 8. |
| 16 | 8" FLANGED MAGNETIC FLOW METER. |
| 17 | 8" FLANGED DUCTILE IRON PIPE LONG RADIUS 90 DEGREE ELBOW, TYPICAL OF 1. |
| 19 | 8" FLANGED DUCTILE IRON PIPE 90 DEGREE ELBOW, TYPICAL OF 2. |
| 20 | 8" FLANGED DUCTILE IRON PIPE 90 DEGREE ELBOW, WITH 1/2" THREADED TAP, TYPICAL OF 2. |
| 21 | 8" FLEX-TEND DOUBLE BALL EXPANSION JOINT, RESTRAINED MECHANICAL JOINT, TYPICAL OF 2. |
| 22 | 8" X 8" X 4" FLANGED DUCTILE IRON PIPE TEE, TYPICAL OF 2. |
| 27 | 4" FLANGED DUCTILE IRON PIPE 90 DEGREE ELBOW, TYPICAL OF 2. |
| 28 | 4" FLANGED DUCTILE IRON PIPE SPOOL, TYPICAL OF 1. |
| 29 | 4" FLANGED BY GROOVED END DUCTILE IRON PIPE SPOOL, TYPICAL OF 3. |
| 30 | 4" STYLE 31 VICTAULIC COUPLING, TYPICAL OF 2. |
| 31 | 12" FLANGED FLEXIBLE SLEEVE DUCKBILL CHECK VALVE, TYPICAL OF 2. |
| 32 | 6" 10 GA. STEEL VENT PIPE, FLANGED X PLAIN END, FUSION BOND EPOXY COATED. |
| 33 | 6" STEEL AIR INTAKE CAP, ALHAMBRA FOUNDRY MODEL A-2163, OR EQUAL. PROVIDE WITH INSECT SCREEN. FUSION BOND EPOXY COATED. |
| 34 | 1 1/2" SCH 40 316 STAINLESS STEEL AIR PIPING. |

- | NO. | DESCRIPTION |
|-----|--|
| 35 | 3/4" SCH 40 316 STAINLESS STEEL AIR PIPING. |
| 41 | 4'-0" X 4'-0" CLEAR OPENING ACCESS HATCH WITH SAFETY GRATE. COVER SEGMENTED AS TWO PANELS. PANELS TO BE HINGED ALUMINUM CHECKER PLATE WITH RECESSED LOCKING HASP. PANELS SHALL BE RATED FOR 300 PSF LOAD. EACH PANEL SHALL HAVE SPRING ASSISTED OPENING MECHANISM REQUIRING A MAXIMUM OF 40 LB PULL TO OPEN WITH AUTOMATIC POSITIVE HOLD-OPEN MECHANISM. PROVIDE A SINGLE, HINGED ACCESS, RECESSED, LOCKING HASP CAPABLE OF SECURING ALL PANELS. ALL HARDWARE TO BE 316 STAINLESS STEEL. CHANNEL FRAME WITH 1 1/2" DRAIN COUPLING. BILCO, USF FABRICATION, OR EQUAL. |
| 42 | 4'-0" X 4'-0" CLEAR OPENING ACCESS HATCH WITH SAFETY GRATE. COVER SEGMENTED AS TWO PANELS. PANELS TO BE HINGED ALUMINUM CHECKER PLATE WITH RECESSED LOCKING HASP. PANELS SHALL BE RATED FOR H-20 LOAD. EACH PANEL SHALL HAVE SPRING ASSISTED OPENING MECHANISM REQUIRING A MAXIMUM OF 40 LB PULL TO OPEN WITH AUTOMATIC POSITIVE HOLD-OPEN MECHANISM. PROVIDE A SINGLE, HINGED ACCESS, RECESSED, LOCKING HASP CAPABLE OF SECURING ALL PANELS. ALL HARDWARE TO BE 316 STAINLESS STEEL. BILCO, USF FABRICATION, OR EQUAL. |
| 44 | 1 1/4" COPPER TYPE K WATER LINE. |
| 47 | 8" DUCTILE IRON PIPE, 45 DEGREE ELBOW, MJ RESTRAINED |
| 48 | 8" DUCTILE IRON PIPE SPOOL, FLANGED X PLAIN END, WITH WALL COLLAR |
| 49 | 12" DUCTILE IRON PIPE SPOOL, FLANGED X PLAIN END, WITH WALL COLLAR |
| 52 | 4" ABS SANITARY SEWER PIPE AND FITTINGS. |
| 53 | 4" FLEXIBLE COUPLING |
| 59 | 8" DUCTILE IRON PIPE BURIED FORCE MAIN. |

SECTION 1
SCALE: 3/8" = 1'-0"

- | NO. | DESCRIPTION |
|-----|--|
| 60 | 316 STAINLESS STEEL LADDER WITH 316 STAINLESS STEEL TELESCOPING EXTENSION DEVICE FOR LADDER ACCESS. MOUNT LADDER TO WALL WITH 316 STAINLESS STEEL ANCHOR BOLTS. 16" LADDER WIDTH AND 12" RUNG SPACING. |
| 61 | 4" FLAP GATE, COPLASTIX UNIFLAP 150, OR EQUIVALENT. |
| 62 | 6" DUCTILE IRON PIPE SPOOL, FLANGED X PLAIN END, WITH WALL COLLAR |
| 98 | 200 GALLON SURGE TANK. SEE SPECIFICATION SECTION 11900. |
| 99 | 4" FLANGED DUCTILE IRON 90 DEGREE BASE ELBOW, TYPICAL OF 1 |
| 100 | 4" X 4" X 4" FLANGED DUCTILE IRON BASE TEE, TYPICAL OF 1 |

\PACIFIC.DWG, 5/28/07, M.S. SURGE, 4-HANCOCK PARKWAY, SLS.DWG, 05-26-09 11:19:25 LAYOUT: M-3



PLANS PREPARED BY
DEXTER WILSON ENGINEERING, INC.
 CONSULTING ENGINEERS
 2234 FARADAY AVENUE
 CARLSBAD, CA 92008 (760) 438-4422
 Andrew Owen 5-29-09
 ANDREW M. OWEN DATE

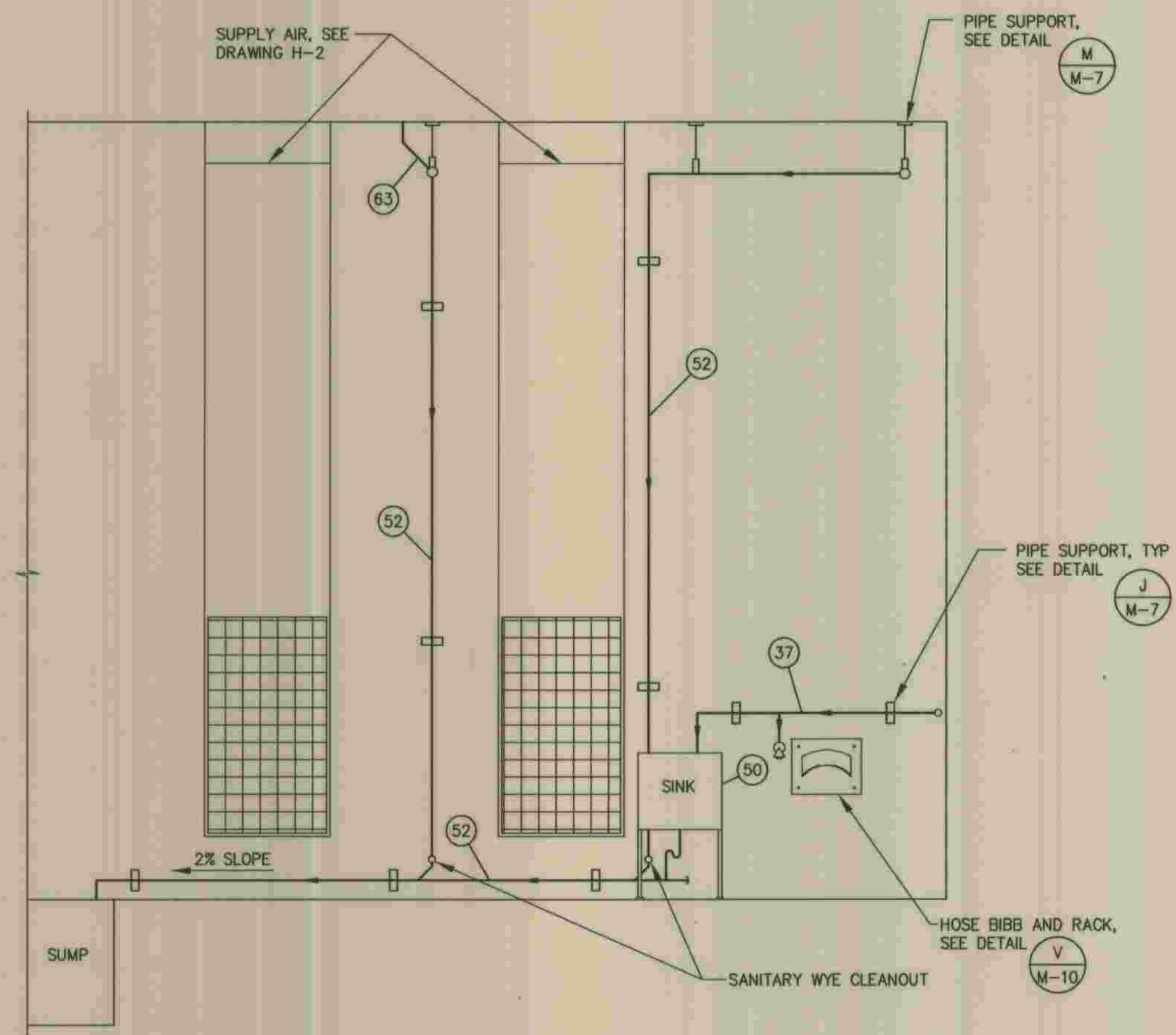
DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY
 CHECKED: Peter Chang 7-28-2009
 DESIGN DIVISION DATE

NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY

REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.

LOS ANGELES COUNTY
 DEPARTMENT OF PUBLIC WORKS
**HANCOCK PARKWAY
 SEWAGE LIFT STATION (TEMPORARY)**
 PARCEL MAP NO. 26363
 MECHANICAL SECTION

SHEET	OF	SHEETS
35	61	

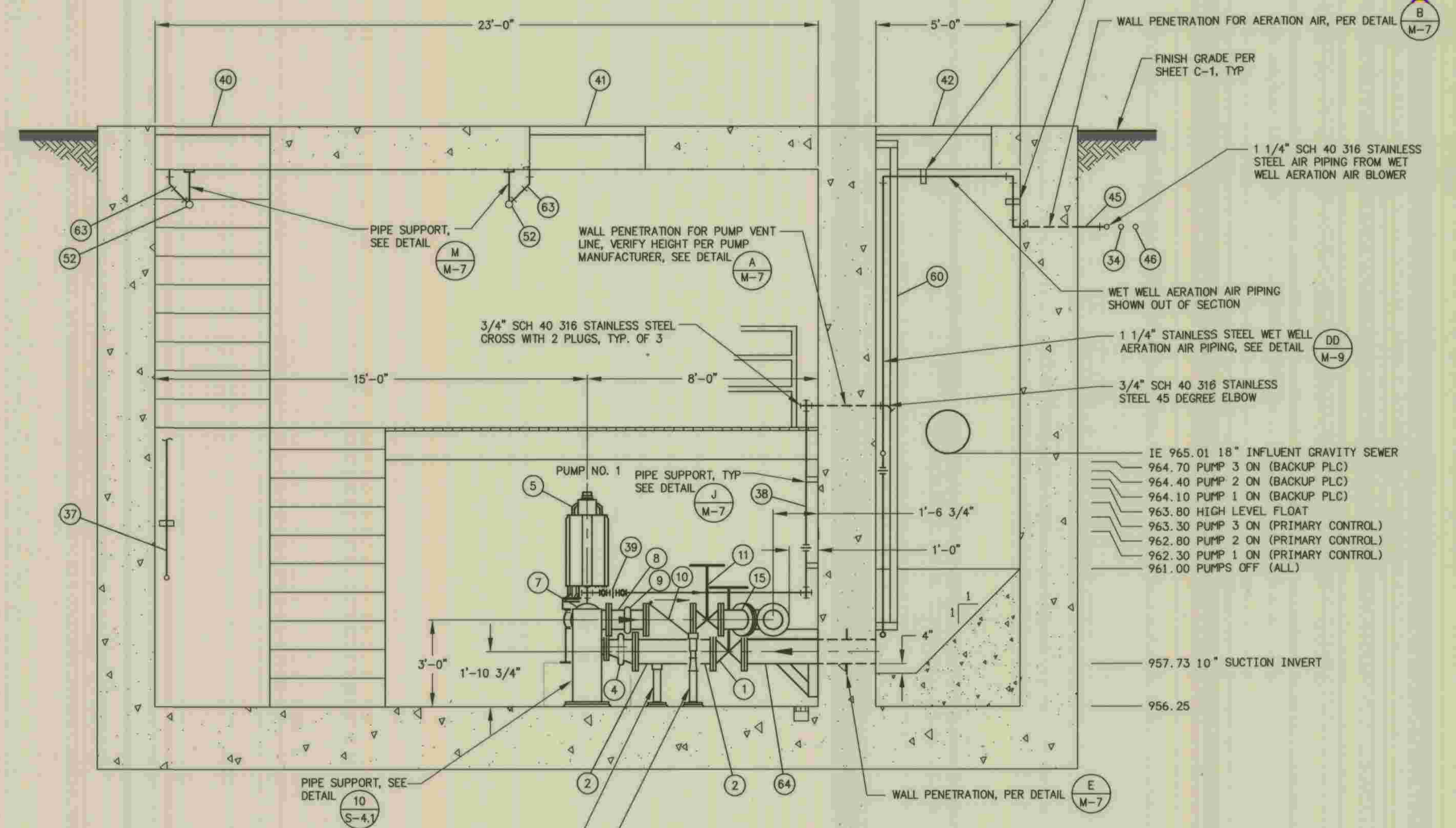


INTERIOR PIPING ELEVATION
SCALE: 3/8" = 1'-0"

MATERIALS LIST

- NO. DESCRIPTION**
- 1 10" FLANGED GATE VALVE WITH HANDWHEEL, TYPICAL OF 3.
 - 2 10" FLANGED BY GROOVED END DUCTILE IRON PIPE SPOOL, TYPICAL OF 6.
 - 4 10" X SIZE TO FIT SELECTED PUMP SUCTION, FLANGED, ECCENTRIC REDUCER SINGLE ARCH EXPANSION JOINT, TYPICAL OF 3.
 - 5 ESSCO 4X12TF DRY PIT RECESSED IMPELLER SUBMERSIBLE RAW SEWAGE PUMP, CAPABLE OF DELIVERING 710 GPM AT 104 FEET TOTAL DYNAMIC HEAD. PUMP SHALL BE DRIVEN BY 40 HORSEPOWER, 1750 RPM, 480 VOLT, THREE PHASE MOTOR. SEE SEWAGE PUMP AND MOTOR SPECIFICATIONS. TYPICAL OF 3.
 - 7 8" FLANGED DUCTILE IRON PIPE 90 DEGREE BASE ELBOW, TYPICAL OF 3.
 - 8 8" FLANGED BY GROOVED END DUCTILE IRON PIPE SPOOL, TYPICAL OF 10.
 - 9 8" STYLE 31 VICTAULIC COUPLING, TYPICAL OF 5.
 - 10 8" FLANGED CHECK VALVE, SPRING LOADED, TYPICAL OF 3.
 - 11 8" FLANGED GATE VALVE WITH HANDWHEEL, TYPICAL OF 5.
 - 15 8" FLANGED DUCTILE IRON PIPE 45 DEGREE ELBOW, TYPICAL OF 2.
 - 34 1 1/2" SCH 40 316 STAINLESS STEEL AIR PIPING
 - 37 1" COPPER TYPE K WATER LINE
 - 38 3/4" SCH 40 316 STAINLESS STEEL PUMP VENT LINE
 - 39 3/4" BALL VALVE (BY PUMP MANUFACTURER), THEN UNION AND BALL VALVE
 - 40 4'-0" X 12'-0" CLEAR OPENING ACCESS HATCH. COVER CAN BE SEGMENTED AS ONE OR TWO PANELS. PANEL(S) TO BE HINGED ALUMINUM CHECKER PLATE WITH RECESSED LOCKING HASP. PANEL(S) SHALL BE RATED FOR 300 PSF LOAD. EACH PANEL SHALL HAVE SPRING ASSISTED OPENING MECHANISM REQUIRING A MAXIMUM OF 40 LB PULL TO OPEN WITH AUTOMATIC POSITIVE HOLD-OPEN MECHANISM. PROVIDE A SINGLE, HINGED ACCESS, RECESSED, LOCKING HASP CAPABLE OF SECURING ALL PANELS. ALL HARDWARE TO BE 316 STAINLESS STEEL. CHANNEL FRAME WITH 1 1/2" DRAIN COUPLING. BILCO, USF FABRICATION, OR EQUAL.

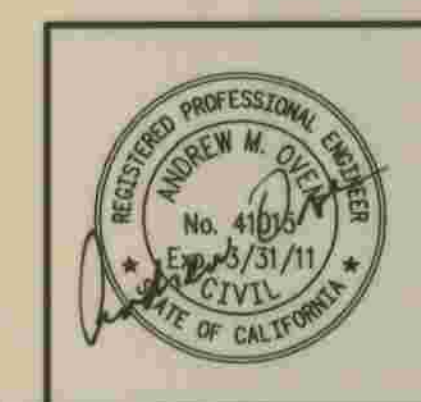
- NO. DESCRIPTION**
- 41 4'-0" X 4'-0" CLEAR OPENING ACCESS HATCH WITH SAFETY GRATE. COVER SEGMENTED AS TWO PANELS. PANELS TO BE HINGED ALUMINUM CHECKER PLATE WITH RECESSED LOCKING HASP. PANELS SHALL BE RATED FOR 300 PSF LOAD. EACH PANEL SHALL HAVE SPRING ASSISTED OPENING MECHANISM REQUIRING A MAXIMUM OF 40 LB PULL TO OPEN WITH AUTOMATIC POSITIVE HOLD-OPEN MECHANISM. PROVIDE A SINGLE, HINGED ACCESS, RECESSED, LOCKING HASP CAPABLE OF SECURING ALL PANELS. ALL HARDWARE TO BE 316 STAINLESS STEEL. CHANNEL FRAME WITH 1 1/2" DRAIN COUPLING. BILCO, USF FABRICATION, OR EQUAL.
 - 42 4'-0" X 4'-0" CLEAR OPENING ACCESS HATCH WITH SAFETY GRATE. COVER SEGMENTED AS TWO PANELS. PANELS TO BE HINGED ALUMINUM CHECKER PLATE WITH RECESSED LOCKING HASP. PANELS SHALL BE RATED FOR H-20 LOAD. EACH PANEL SHALL HAVE SPRING ASSISTED OPENING MECHANISM REQUIRING A MAXIMUM OF 40 LB PULL TO OPEN WITH AUTOMATIC POSITIVE HOLD-OPEN MECHANISM. PROVIDE A SINGLE, HINGED ACCESS, RECESSED, LOCKING HASP CAPABLE OF SECURING ALL PANELS. ALL HARDWARE TO BE 316 STAINLESS STEEL. BILCO, USF FABRICATION, OR EQUAL.
 - 45 1 1/4" SCH 40 316 STAINLESS STEEL AIR PIPING
 - 46 2" COPPER TYPE K WATER LINE
 - 50 WALL MOUNTED UTILITY SINK AND AND FAUCET, FIBERGLASS REINFORCED PLASTIC, RUST AND CORROSION RESISTANT, 20 GALLON MINIMUM CAPACITY.
 - 52 4" ABS SANITARY SEWER PIPE AND FITTINGS.
 - 57 1/2" STAINLESS STEEL BALL VALVE FOR AIR SYSTEM.
 - 60 316 STAINLESS STEEL LADDER WITH 316 STAINLESS STEEL TELESCOPING EXTENSION DEVICE FOR LADDER ACCESS. MOUNT LADDER TO WALL WITH 316 STAINLESS STEEL ANCHOR BOLTS. 16" LADDER WIDTH AND 12" RUNG SPACING.
 - 63 2" ABS SANITARY SEWER PIPE LATERALS TO HATCH FRAMES
 - 64 10" DUCTILE IRON PIPE SPOOL, FLANGED X PLAIN END, WITH WALL COLLAR



SECTION
SCALE: 3/8" = 1'-0"

REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS	SHEET
HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PNECGL MAP NO. 26363	36
MECHANICAL SECTION	OF
	61
	SHEETS



PLANS PREPARED BY
DEXTER WILSON ENGINEERING, INC.
CONSULTING ENGINEERS
2234 FARADAY AVENUE
CARLSBAD, CA 92008 (760) 438-4422

Andrew Owen 5-29-09
ANDREW M. OWEN DATE

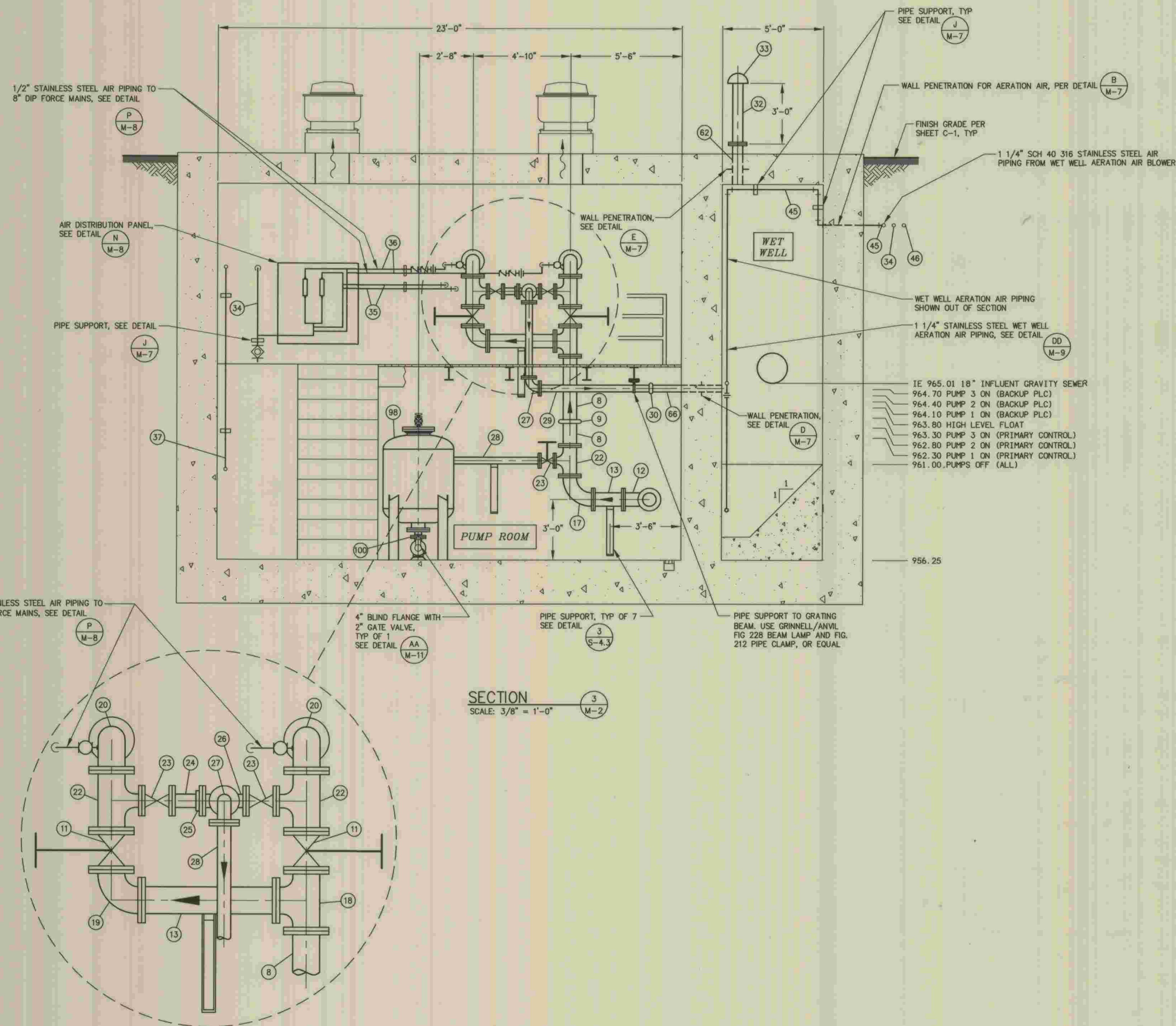
DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY

CHECKED Peter Chang 7-28-2009
DESIGN DIVISION DATE

NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY

MATERIALS LIST

- | NO. | DESCRIPTION |
|-----|---|
| 8 | 8" FLANGED BY GROOVED END DUCTILE IRON PIPE SPOOL, TYPICAL OF 10. |
| 9 | 8" STYLE 31 VICTAULIC COUPLING, TYPICAL OF 5. |
| 11 | 8" FLANGED GATE VALVE WITH HANDWHEEL, TYPICAL OF 5. |
| 12 | 8" FLANGED DUCTILE IRON PIPE LONG RADIUS 90 DEGREE BASE ELBOW, TYPICAL OF 2. |
| 13 | 8" FLANGED DUCTILE IRON PIPE SPOOL, TYPICAL OF 8. |
| 17 | 8" FLANGED DUCTILE IRON PIPE LONG RADIUS 90 DEGREE ELBOW, TYPICAL OF 1. |
| 18 | 8" X 8" X 8" FLANGED DUCTILE IRON PIPE TEE, TYPICAL OF 1. |
| 19 | 8" FLANGED DUCTILE IRON PIPE 90 DEGREE ELBOW, TYPICAL OF 1. |
| 20 | 8" FLANGED DUCTILE IRON PIPE 90 DEGREE ELBOW, WITH 1/2" THREADED TAP, TYPICAL OF 2. |
| 22 | 8" X 8" X 4" FLANGED DUCTILE IRON PIPE TEE, TYPICAL OF 3. |
| 23 | 4" FLANGED GATE VALVE WITH HANDWHEEL, TYPICAL OF 3. |
| 24 | 4" FLANGED BY PLAIN END DUCTILE IRON PIPE SPOOL, TYPICAL OF 1. |
| 25 | 4" DUCTILE IRON FLANGE COUPLING ADAPTOR, TYPICAL OF 1. |
| 26 | 4" X 4" X 4" FLANGED DUCTILE IRON TEE, TYPICAL OF 1. |
| 27 | 4" FLANGED DUCTILE IRON PIPE 90 DEGREE ELBOW, TYPICAL OF 3. |
| 28 | 4" FLANGED DUCTILE IRON PIPE SPOOL, TYPICAL OF 3. |
| 29 | 4" FLANGED BY GROOVED END DUCTILE IRON PIPE SPOOL, TYPICAL OF 1. |
| 30 | 4" STYLE 31 VICTAULIC COUPLING, TYPICAL OF 1. |
| 32 | 6" 10 GA. STEEL VENT PIPE, FLANGED X PLAIN END, FUSION BOND EPOXY COATED. |
| 33 | 6" STEEL AIR INTAKE CAP, ALHAMBRA FOUNDRY MODEL A-2163, OR EQUAL. PROVIDE WITH INSECT SCREEN. FUSION BOND EPOXY COATED. |
| 34 | 1 1/2" SCH 40 316 STAINLESS STEEL AIR PIPING |
| 35 | 3/4" SCH 40 316 STAINLESS STEEL AIR PIPING |
| 36 | 1/2" SCH 40 316 STAINLESS STEEL AIR PIPING |
| 37 | 1" COPPER TYPE K WATER LINE |
| 45 | 1 1/4" SCH 40 316 STAINLESS STEEL AIR PIPING |
| 46 | 2" COPPER TYPE K WATER LINE |
| 62 | 6" DUCTILE IRON PIPE SPOOL, FLANGED X PLAIN END, WITH WALL COLLAR |
| 66 | 4" DUCTILE IRON PIPE SPOOL, GROOVED END X PLAIN END, WITH WALL COLLAR |
| 98 | 200 GALLON SURGE TANK. SEE SPECIFICATION SECTION 11900. |
| 99 | 4" FLANGED DUCTILE IRON 90 DEGREE BASE ELBOW, TYPICAL OF 1 |
| 100 | 4" X 4" X 4" FLANGED DUCTILE IRON BASE TEE, TYPICAL OF 1 |



SECTION
SCALE: 3/8" = 1'-0"

\\PACIFIC\DWG\38007\M-5-SURGE_A-HANCOCK PARKWAY-SS.DWG 05-26-09 11:28:35 LAYOUT: M-5



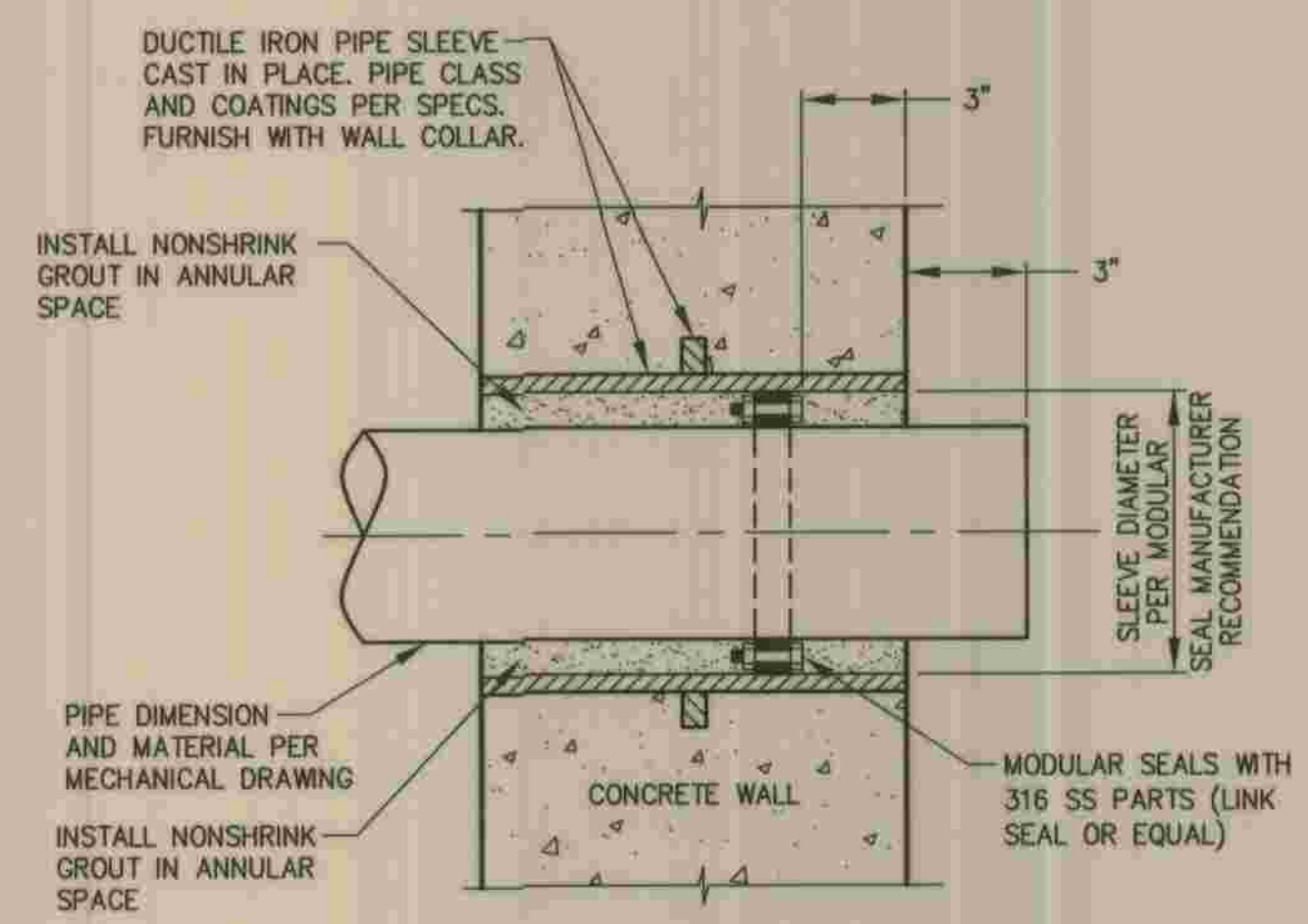
PLANS PREPARED BY
DEXTER WILSON ENGINEERING, INC.
CONSULTING ENGINEERS
2234 FARADAY AVENUE
CARLSBAD, CA 92008 (760) 438-4422
Andrew Oven 5-29-09
ANDREW M. OVEN DATE

DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY
CHECKED *Peter Chang* 7-28-2009
DESIGN/DIVISION DATE

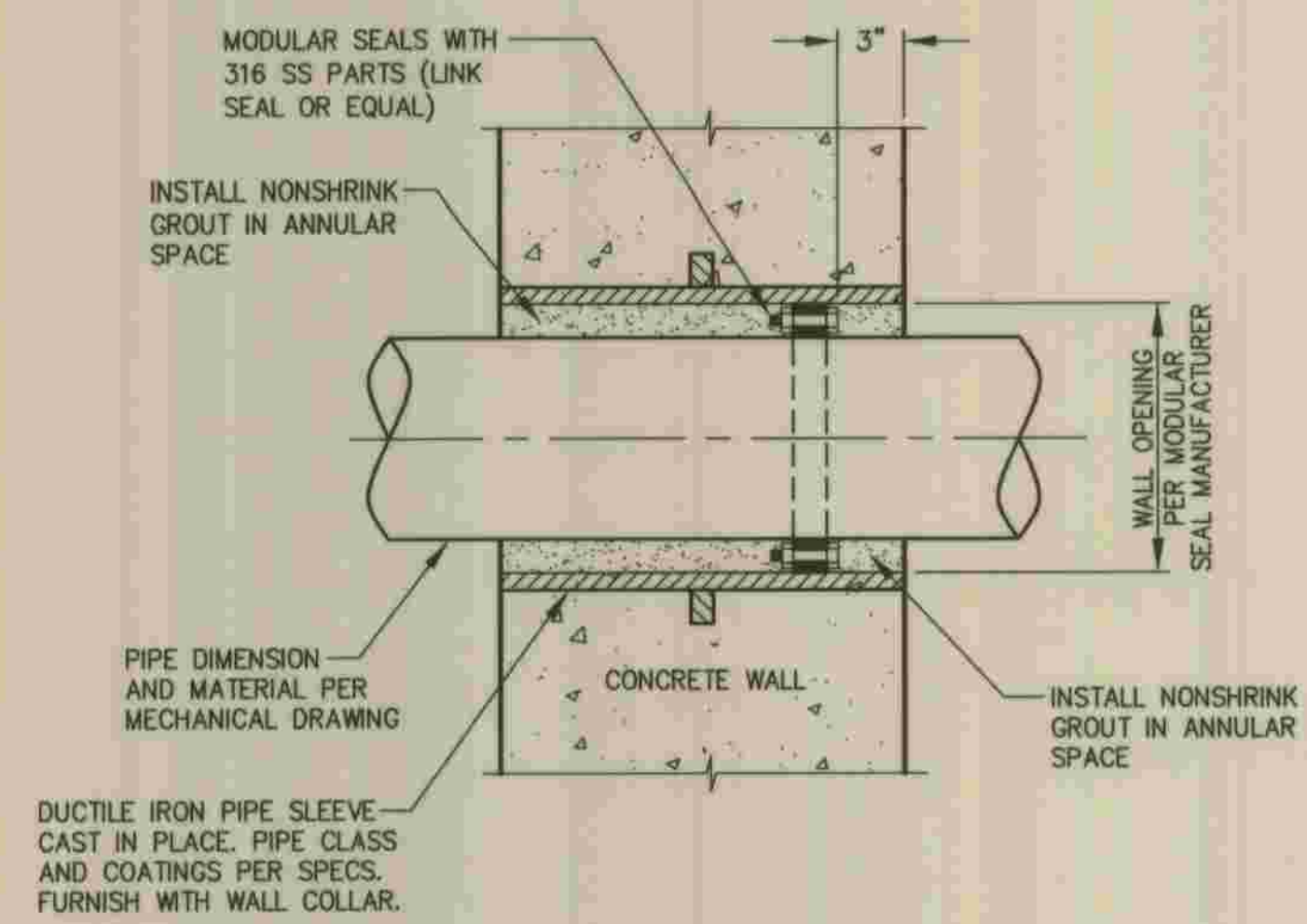
NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY

REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.
LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS
**HANCOCK PARKWAY
SEWAGE LIFT STATION (TEMPORARY)**
PARCEL MAP NO. 25363
MECHANICAL SECTION

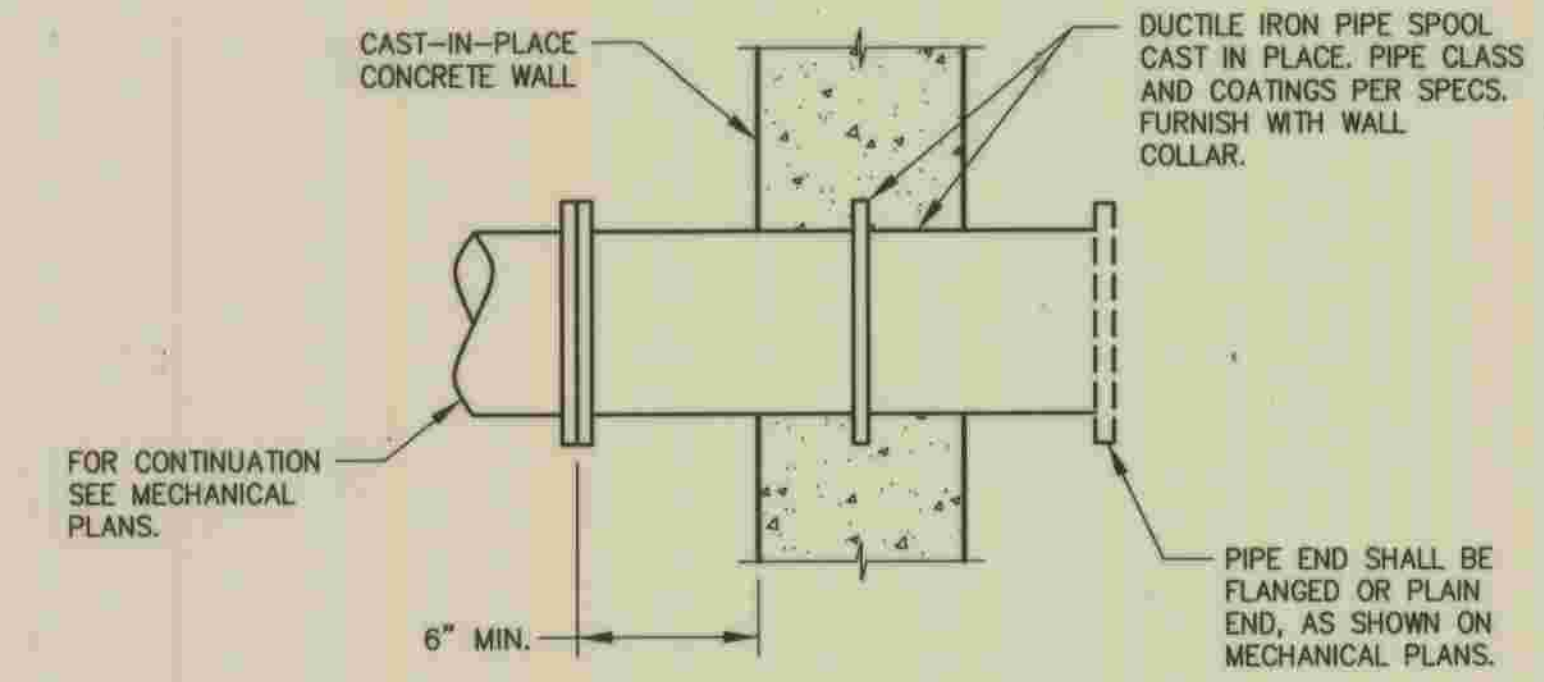
M-5	SHEET
37	OF
61	SHEETS



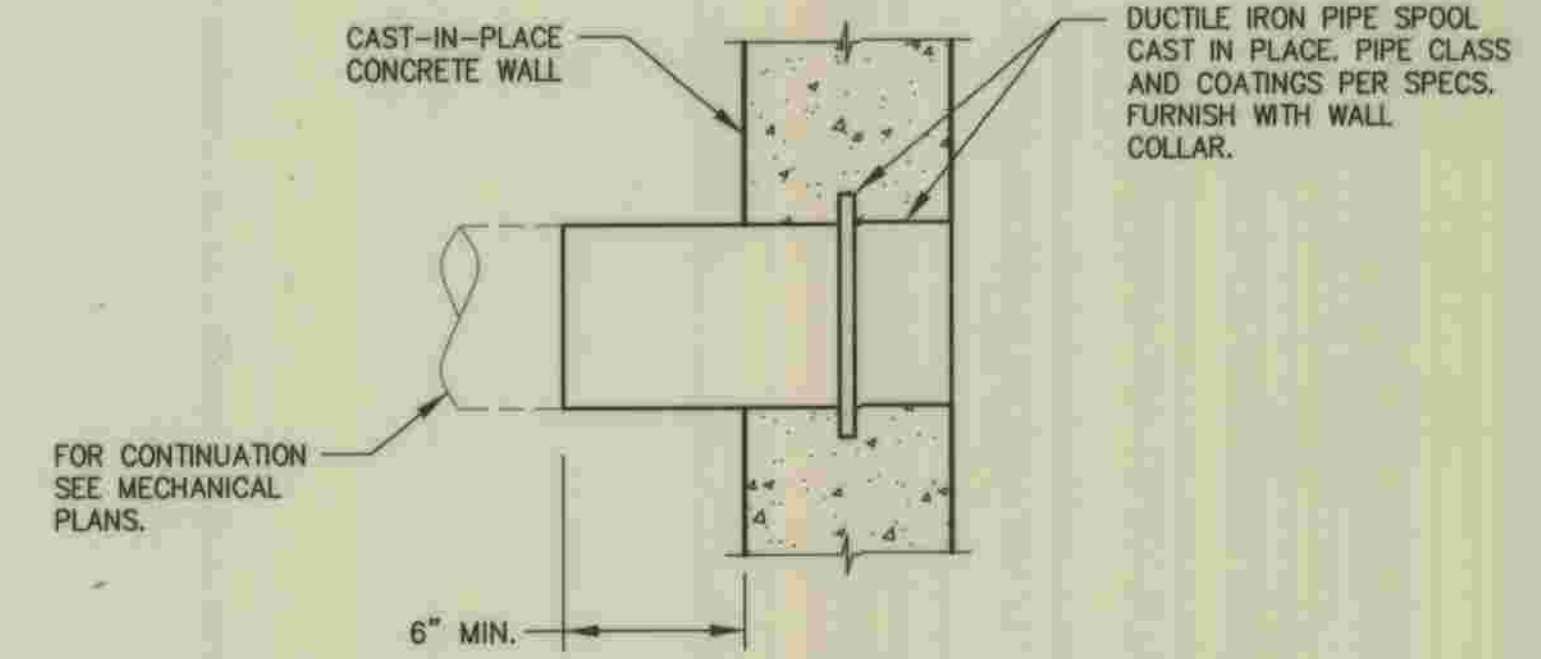
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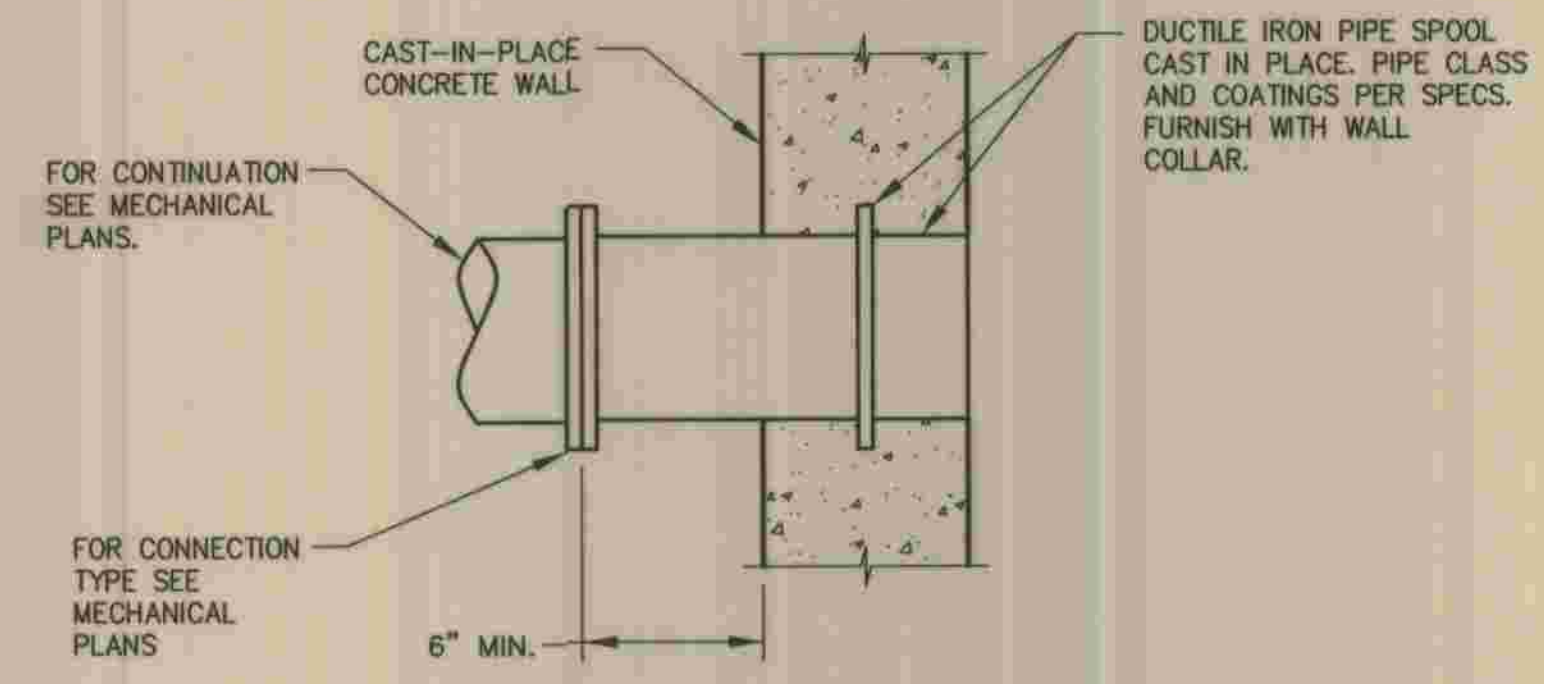
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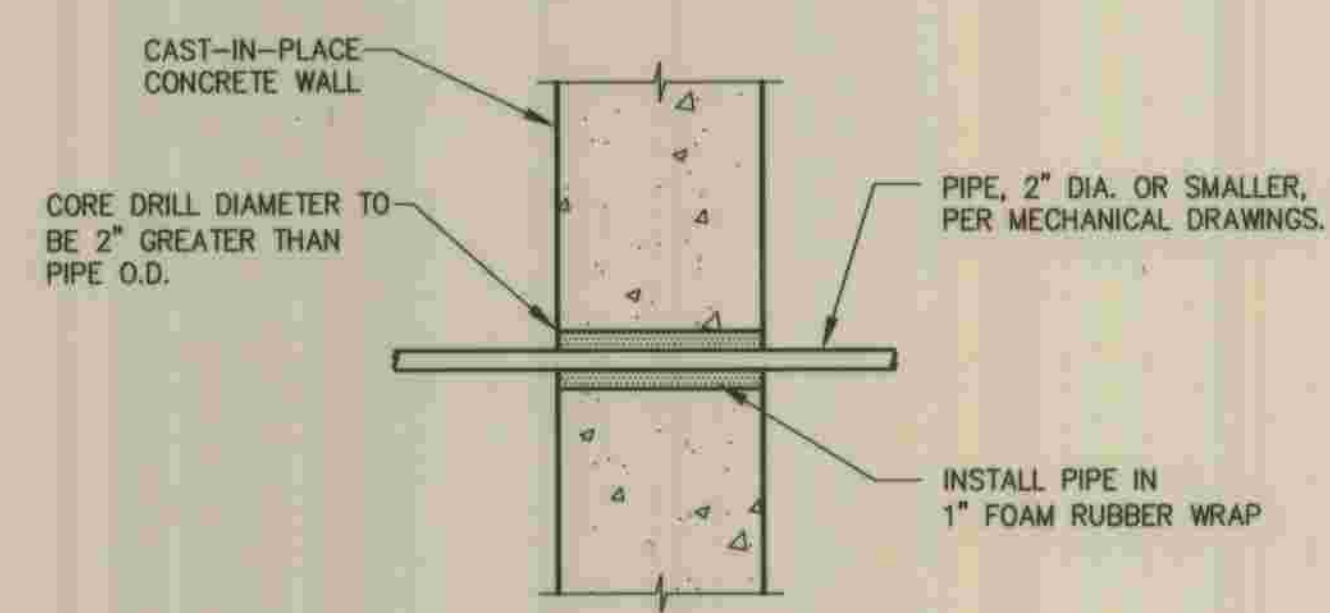
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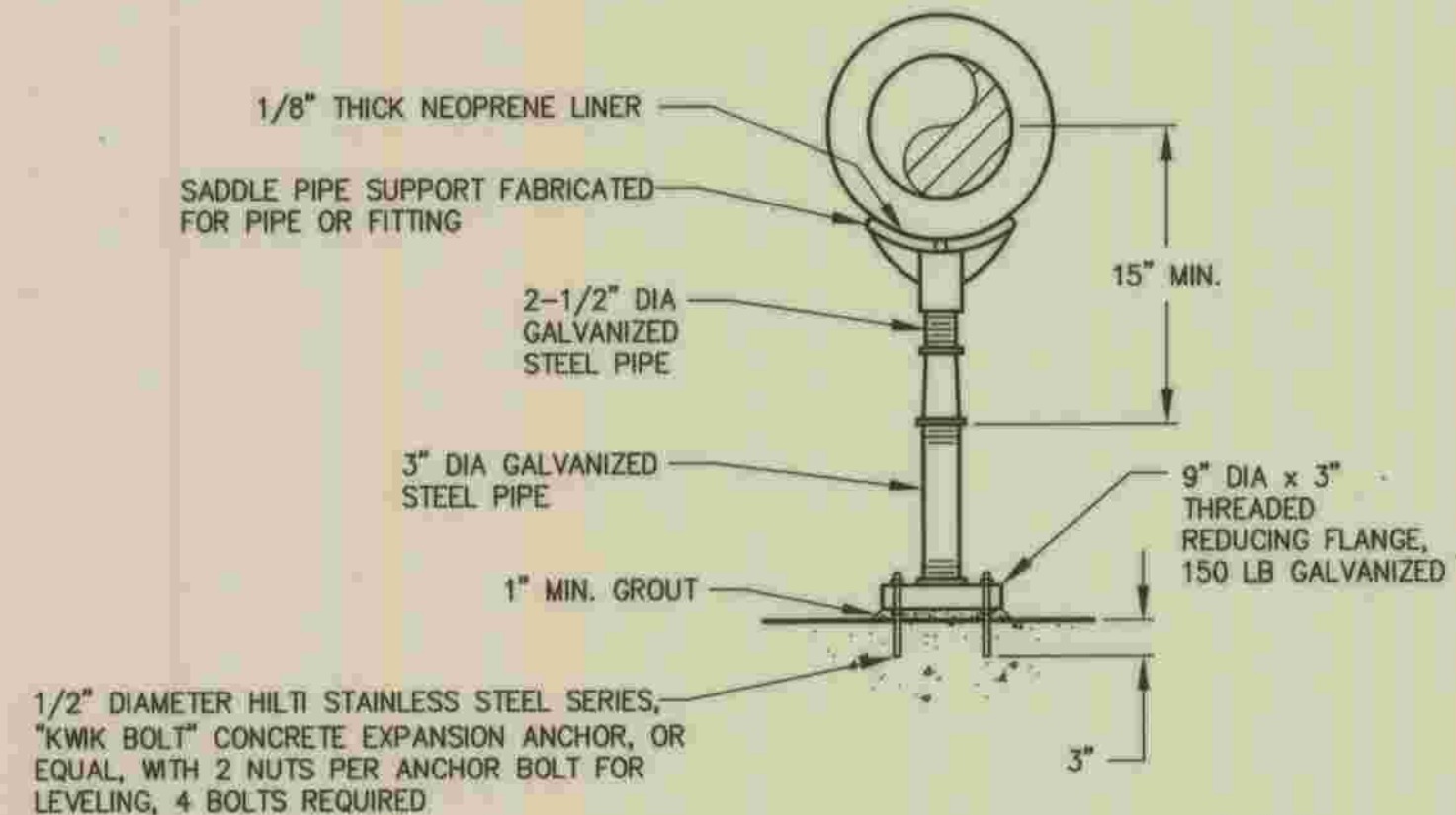
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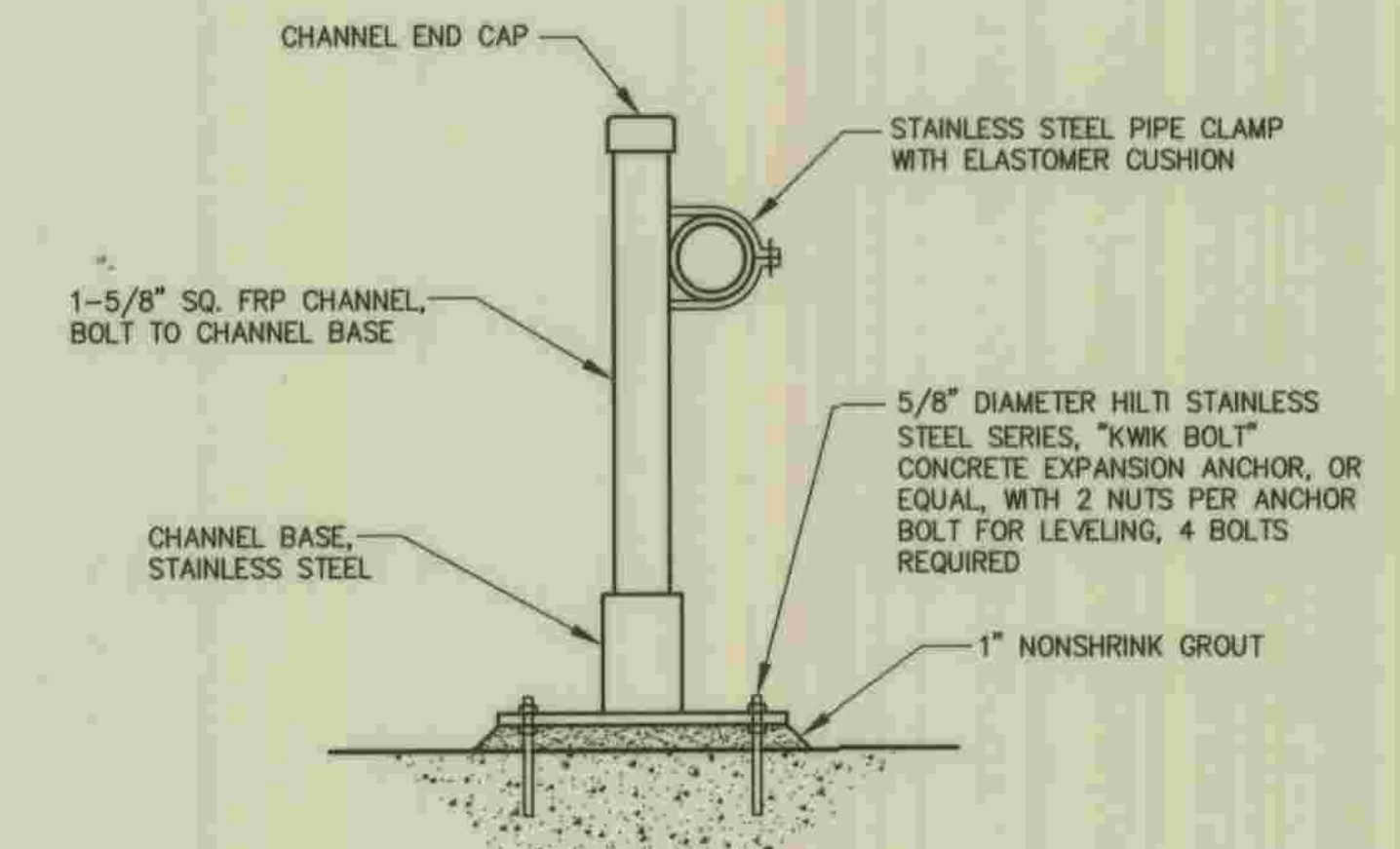
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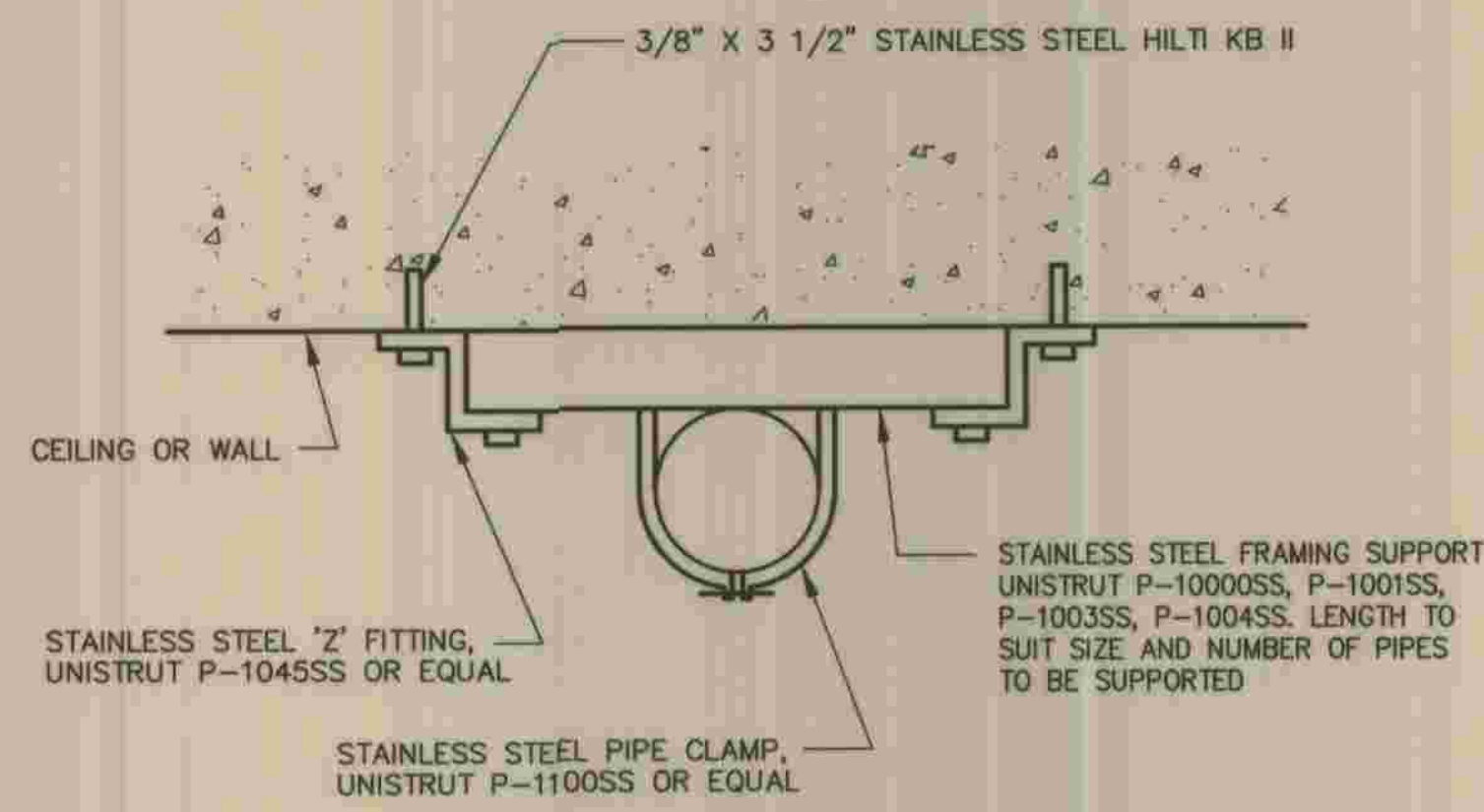
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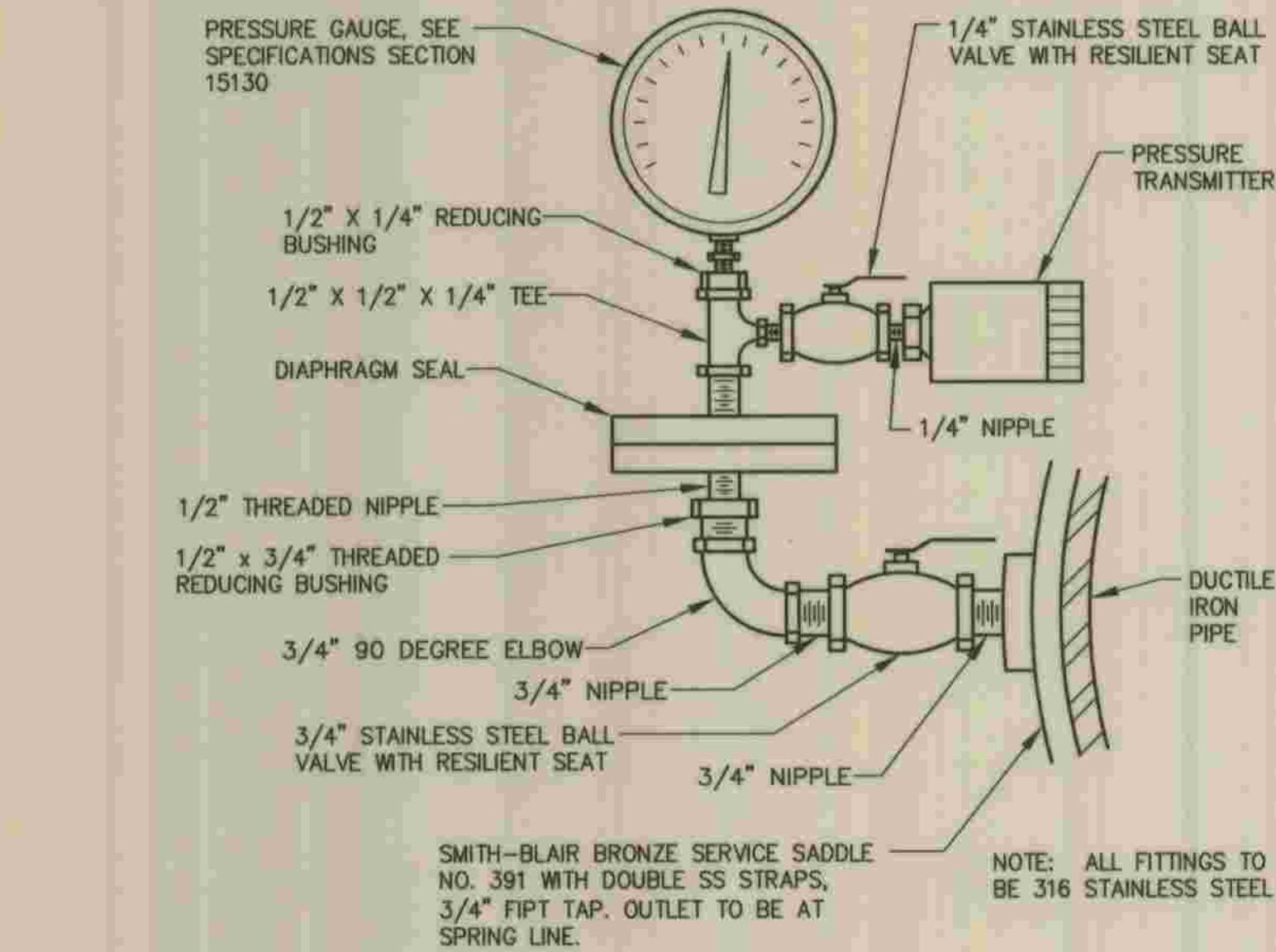
PIPE/VALVE SUPPORT SADDLE G NO SCALE VAR



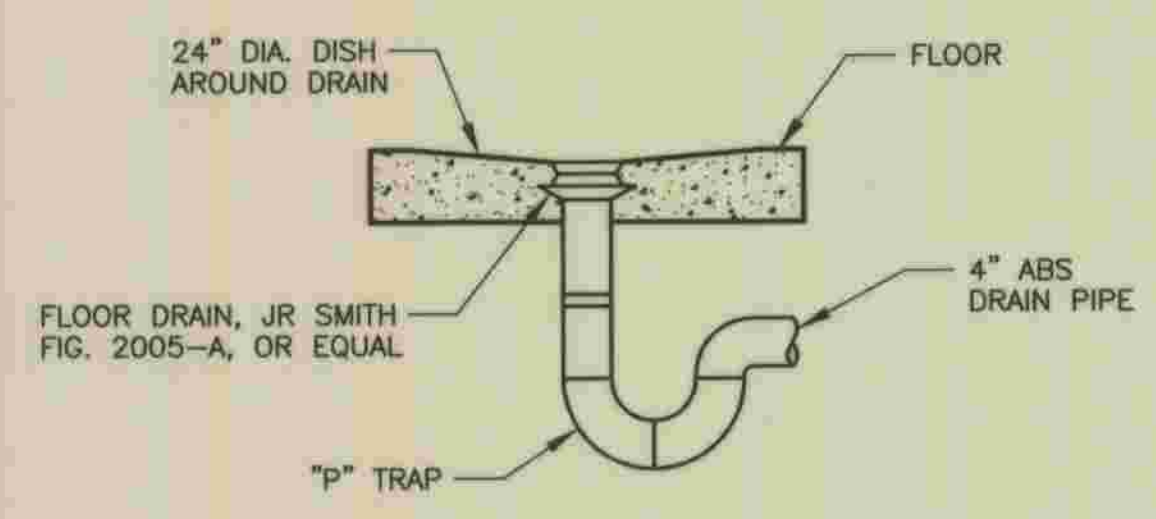
CHANNEL PIPE SUPPORT H NO SCALE VAR



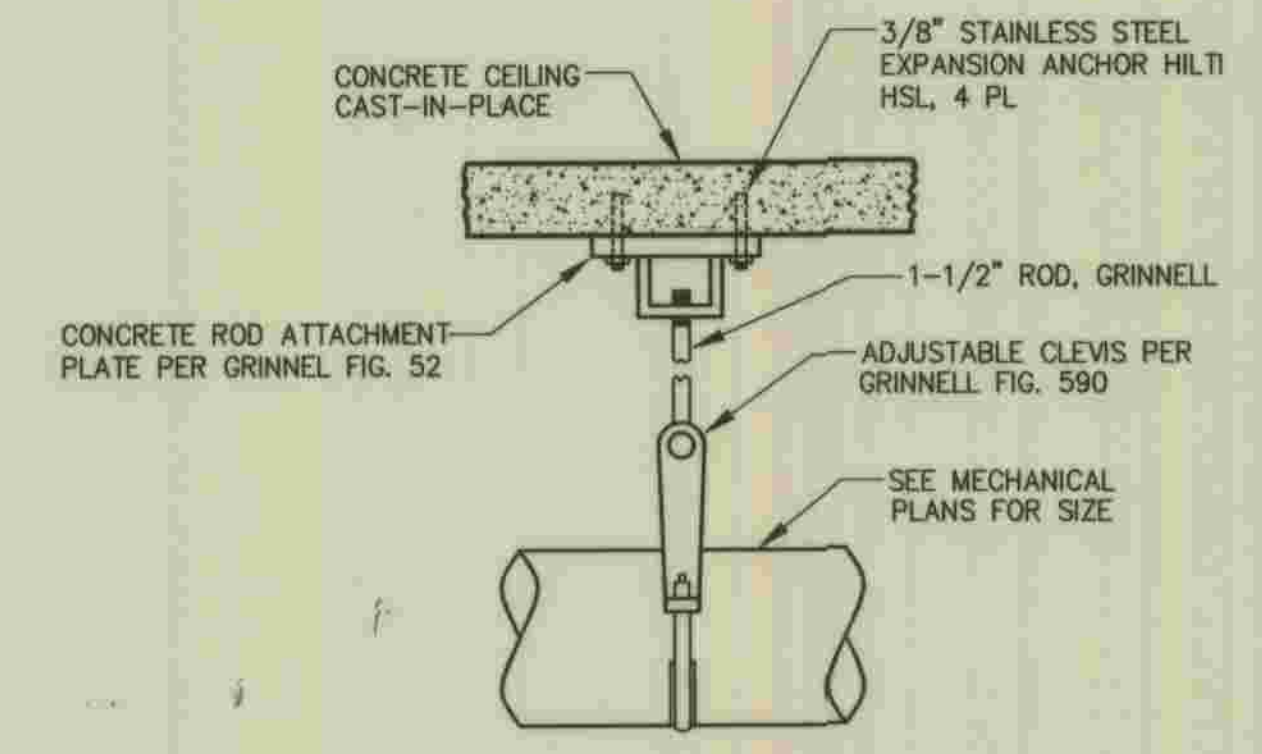
FLUSH MOUNT PIPE SUPPORT J NO SCALE VAR



PRESSURE GAUGE WITH DIAPHRAGM SEAL AND TRANSMITTER K NO SCALE VAR



FLOOR DRAIN DETAIL L NO SCALE VAR



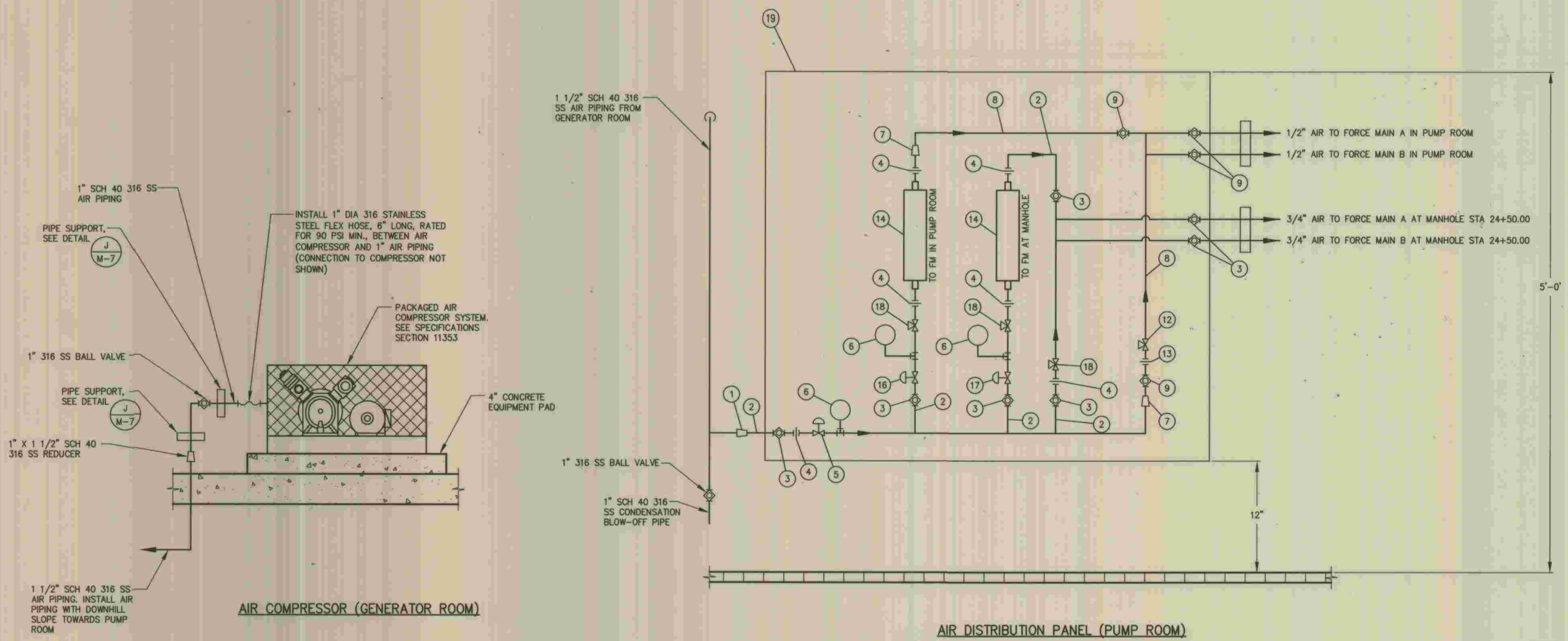
PIPE SUPPORT DETAIL M NO SCALE VAR

REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.

	PLANS PREPARED BY DEXTER WILSON ENGINEERING, INC. CONSULTING ENGINEERS 2234 FARADAY AVENUE CARLSBAD, CA 92008 (760) 438-4422 <i>Andrew Owen</i> 5-29-09 ANDREW M. OWEN DATE	DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY CHECKED BY <i>Peter Chang</i> 7-28-2009 DESIGN DIVISION DATE	<table border="1"> <tr><th>NO.</th><th>DATE</th><th>DRAWN BY</th><th>CHECK BY</th><th>REVISION</th><th>APPR'D BY</th><th>APPR'D BY</th></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY								LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PARCEL MAP NO. 26363 MECHANICAL DETAILS	SPEC. NO. OF JOB NO. DRAWING NO.	M-7 SHEET 39 OF 61 SHEETS
	NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY													
REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.																				

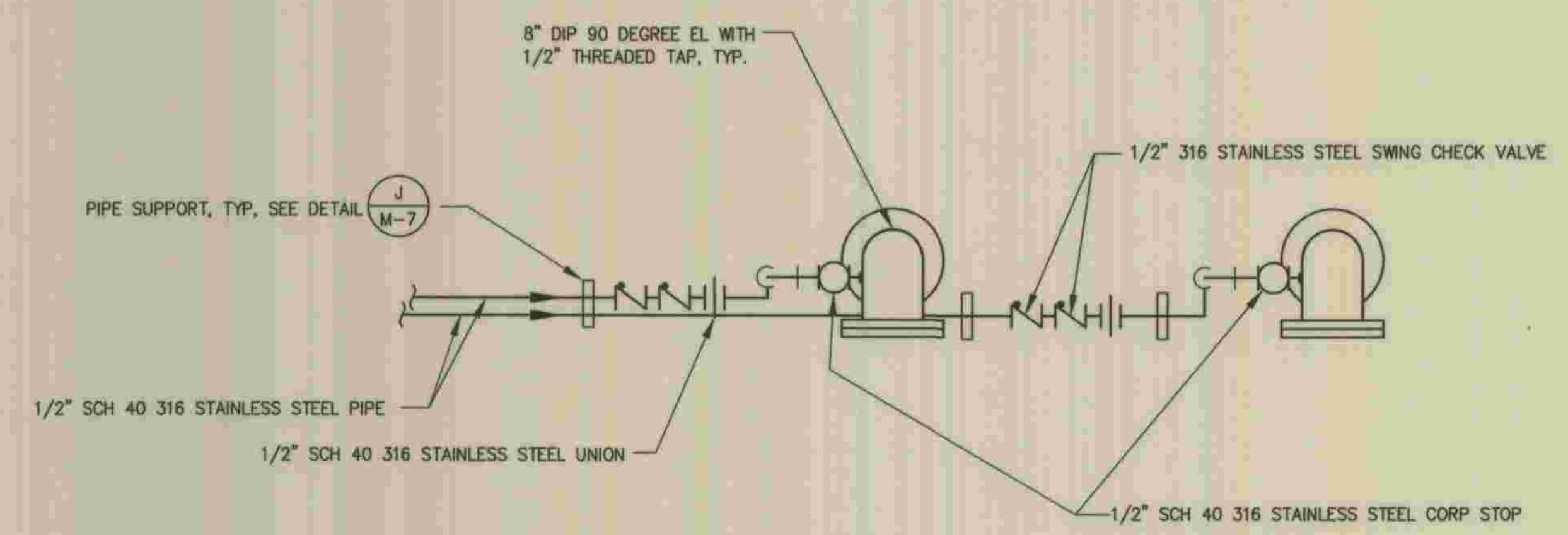
MATERIALS LIST

ITEM	DESCRIPTION
1	1 1/2" X 3/4" REDUCER
2	3/4" PIPE
3	3/4" BALL VALVE
4	3/4" UNION
5	3/4" PRESSURE REGULATING VALVE (SET TO 65 PSI)
6	PRESSURE GAUGE, 0-120 PSI
7	3/4" X 1/2" REDUCER
8	1/2" PIPE
9	1/2" BALL VALVE
11	NOT USED
12	1/2" NEEDLE VALVE, 0-20 SCFM
13	1/2" UNION
14	ROTAMETER WITH DIRECT READING SCALE, 0-20 SCFM FISCHER & PORTER MODEL 10A4557SXBJCFBX OR EQUAL
16	3/4" PRESSURE REGULATING VALVE (SET TO 55 PSI)
17	3/4" PRESSURE REGULATING VALVE (SET TO 55 PSI)
18	3/4" NEEDLE VALVE, 0-20 SCFM
19	48" X 48" ALUMINUM BACKPANEL, MOUNTED 4" FROM WALL WITH STAINLESS STEEL SUPPORTS



FORCE MAIN AIR DISTRIBUTION SYSTEM
NO SCALE (N VAR)

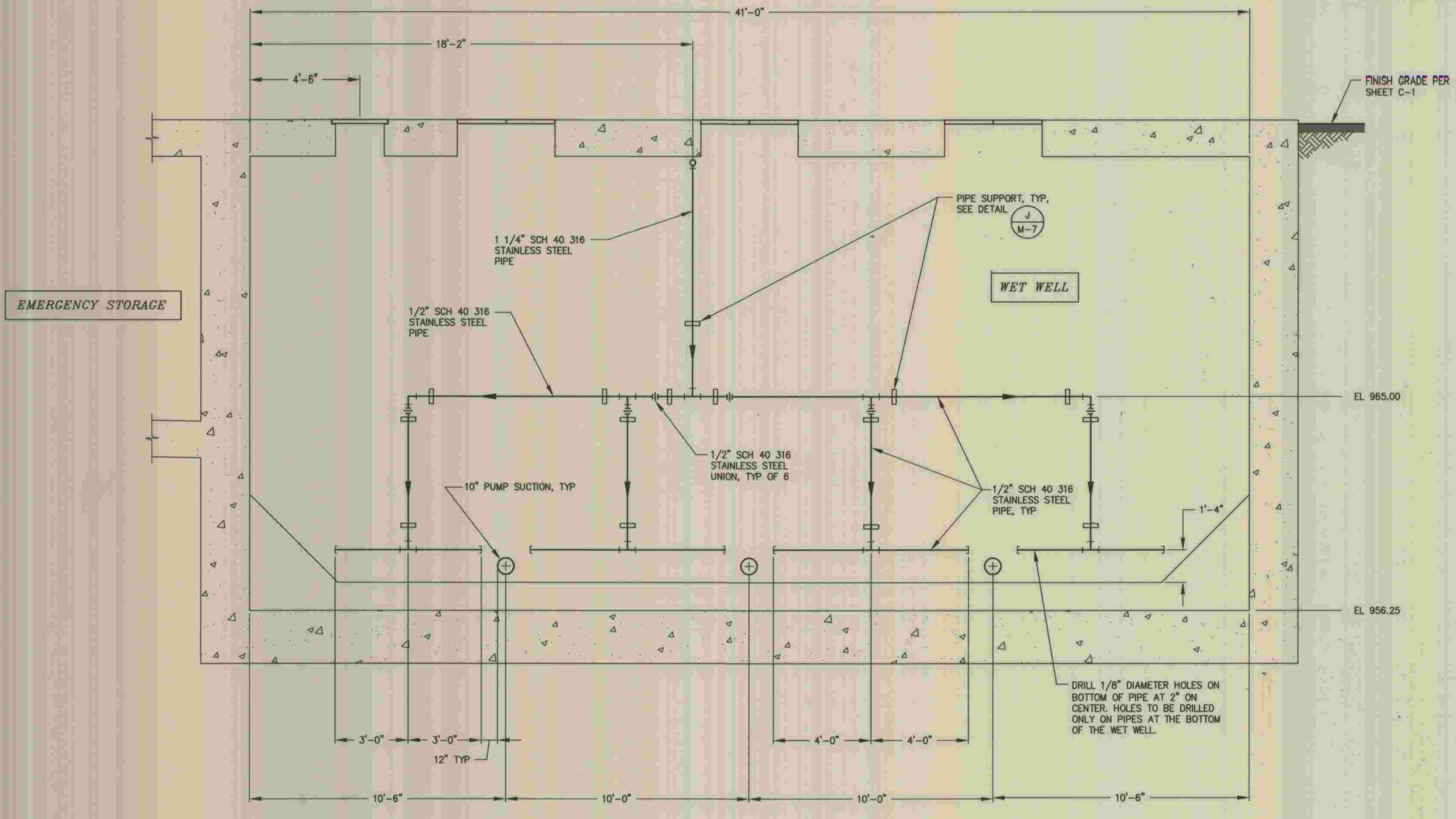
- NOTES:
1. ALL VALVING, GAUGES, AND ROTAMETERS TO BE 316 STAINLESS STEEL.
 2. ALL PIPING AND FITTINGS TO BE SCH 40 316 STAINLESS STEEL.
 3. AIR PIPING TO BE SECURED TO THE ALUMINUM BACKPANEL USING STAINLESS STEEL STRAPS.
 4. CONTRACTOR TO PROVIDE LABELING SYSTEM TO BE APPROVED BY ENGINEER.



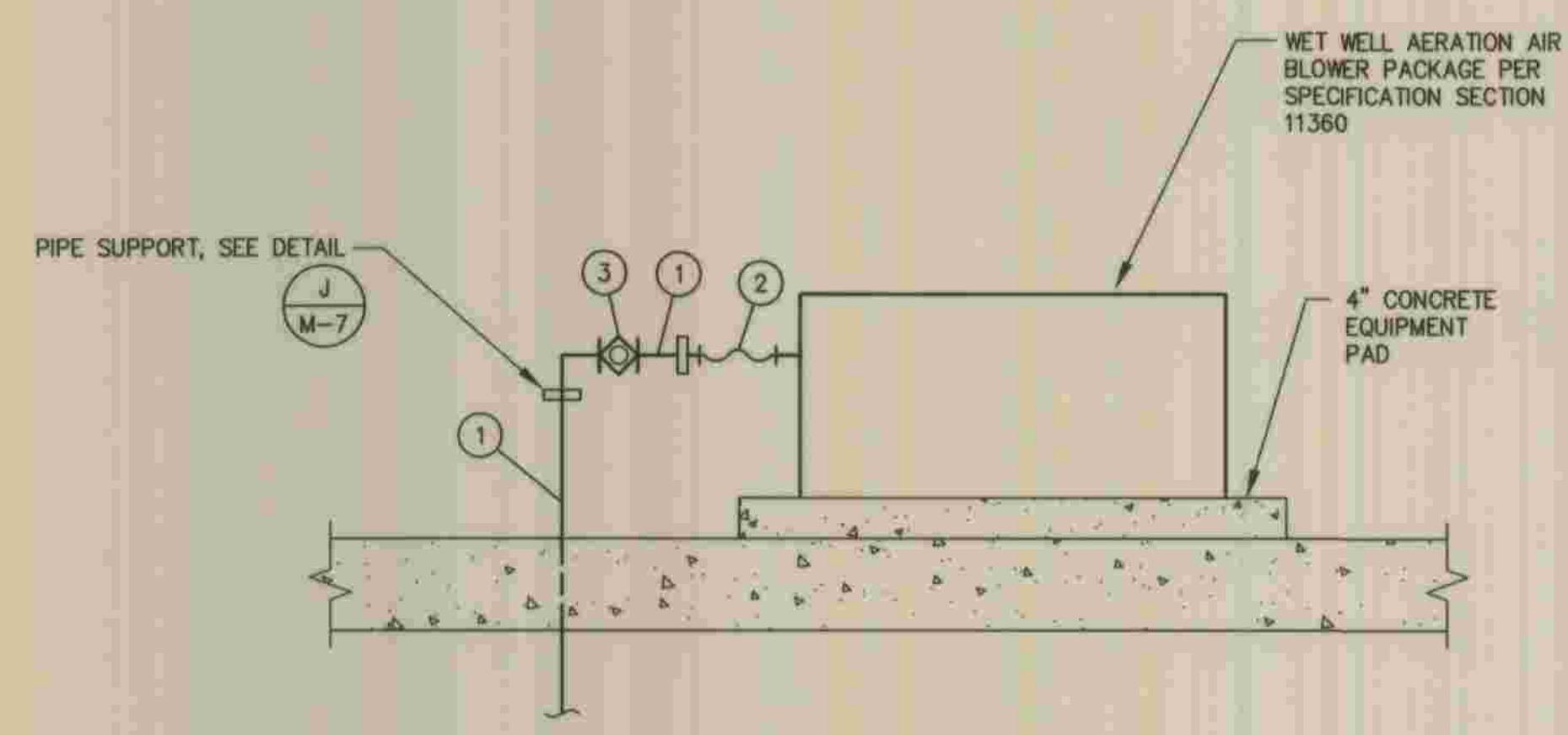
AIR INJECTION TO FORCE MAIN AT PUMP ROOM
SCALE: 3/4" = 1'-0" (P VAR)

	PLANS PREPARED BY DEXTER WILSON ENGINEERING, INC. CONSULTING ENGINEERS 2234 FARADAY AVENUE CARLSBAD, CA 92008 (760) 438-4422 <i>Andrew Owen</i> 5-29-09 ANDREW M. OWEN DATE	DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY CHECKED <i>Peter Chang</i> 7-28-2009 DESIGN DIVISION DATE	<table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>DRAWN BY</th> <th>CHECK BY</th> <th>REVISION</th> <th>APPR'D BY</th> <th>APPR'D BY</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY								REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS. LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PARCEL MAP NO. 26363 MECHANICAL DETAILS	SPEC. NO. OF JOB NO. DRAWING NO.	M-8 SHEET 40 OF 61 SHEETS
	NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY													

V:\PROJECTS\2009\26363\JOB-HANCOCK PARKWAY-SLS.DWG 05-29-09 11:21:32 LAYOUT: M-8



WET WELL AERATION AIR PIPING DETAIL DD
SCALE: 3/8" = 1'-0" VAR



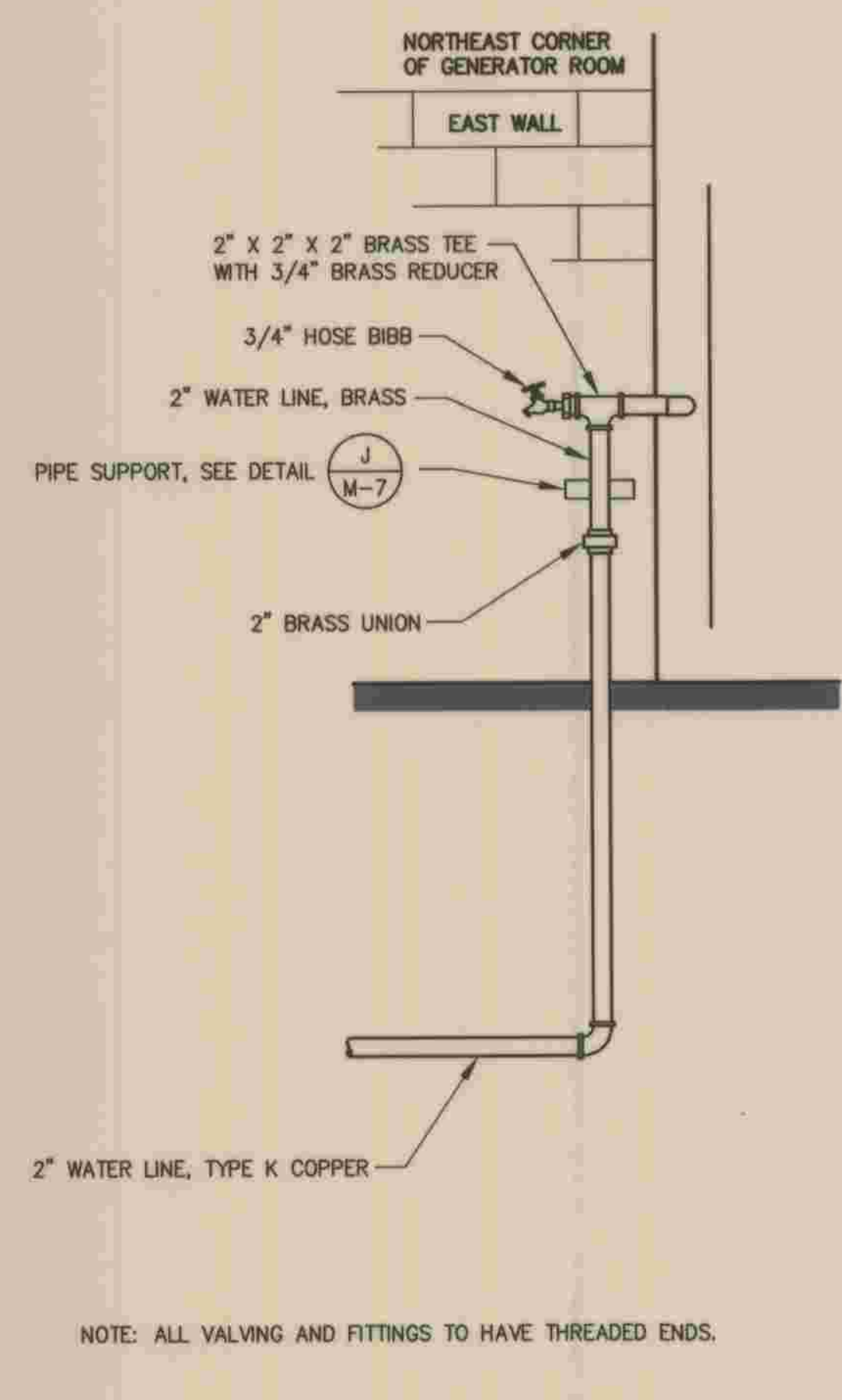
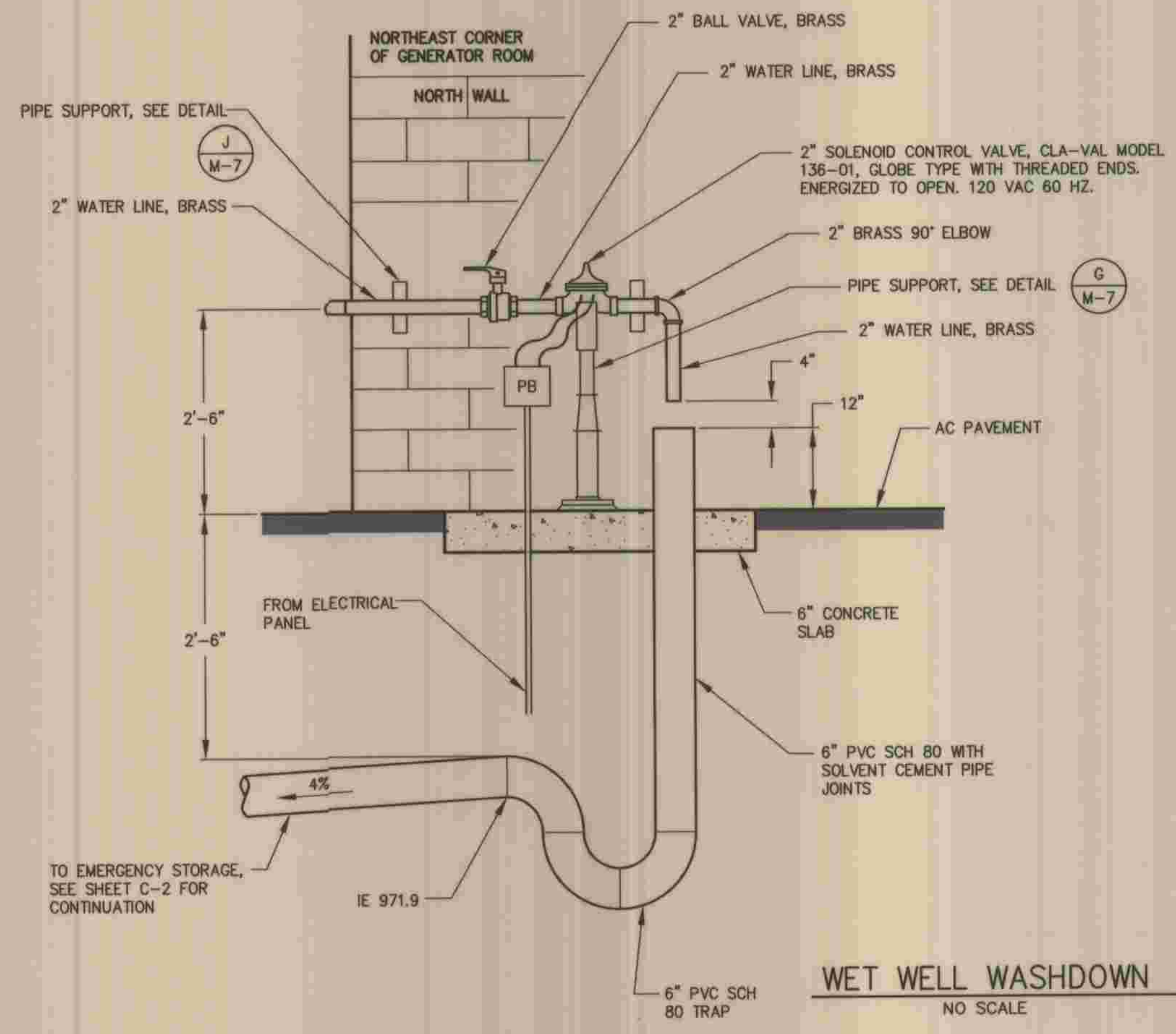
WET WELL AERATION AIR BLOWER DETAIL EE
NO SCALE M-6

MATERIALS LIST

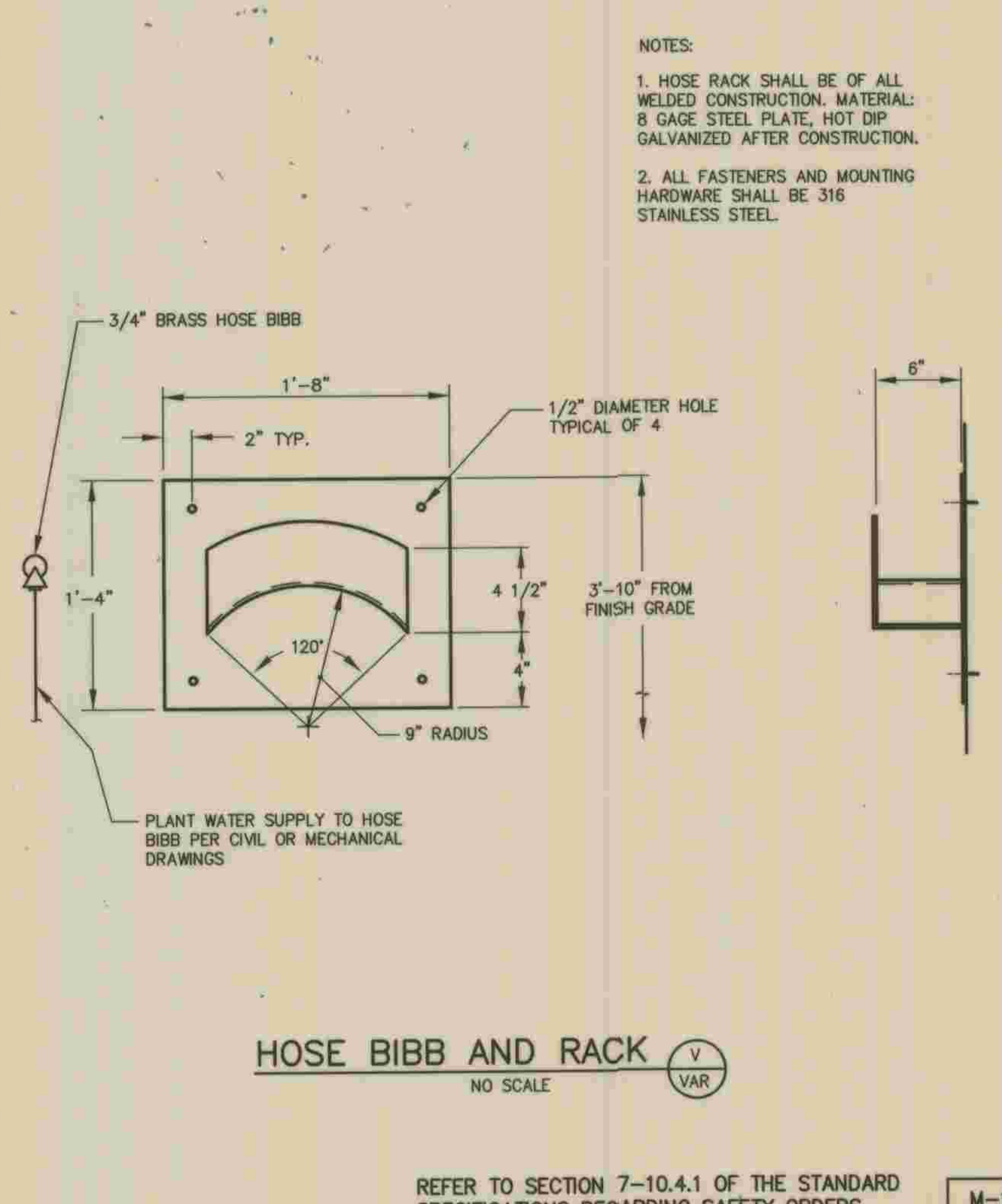
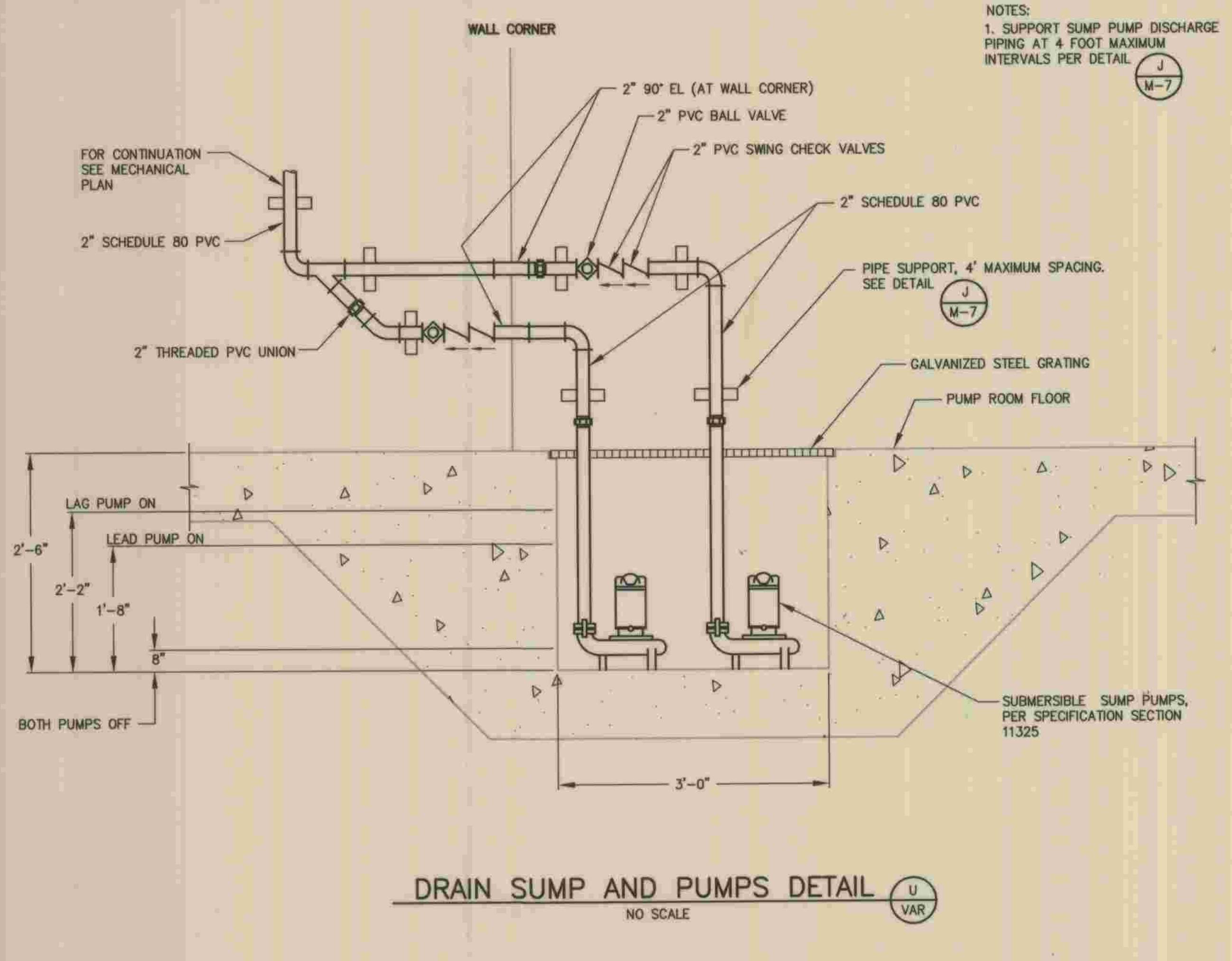
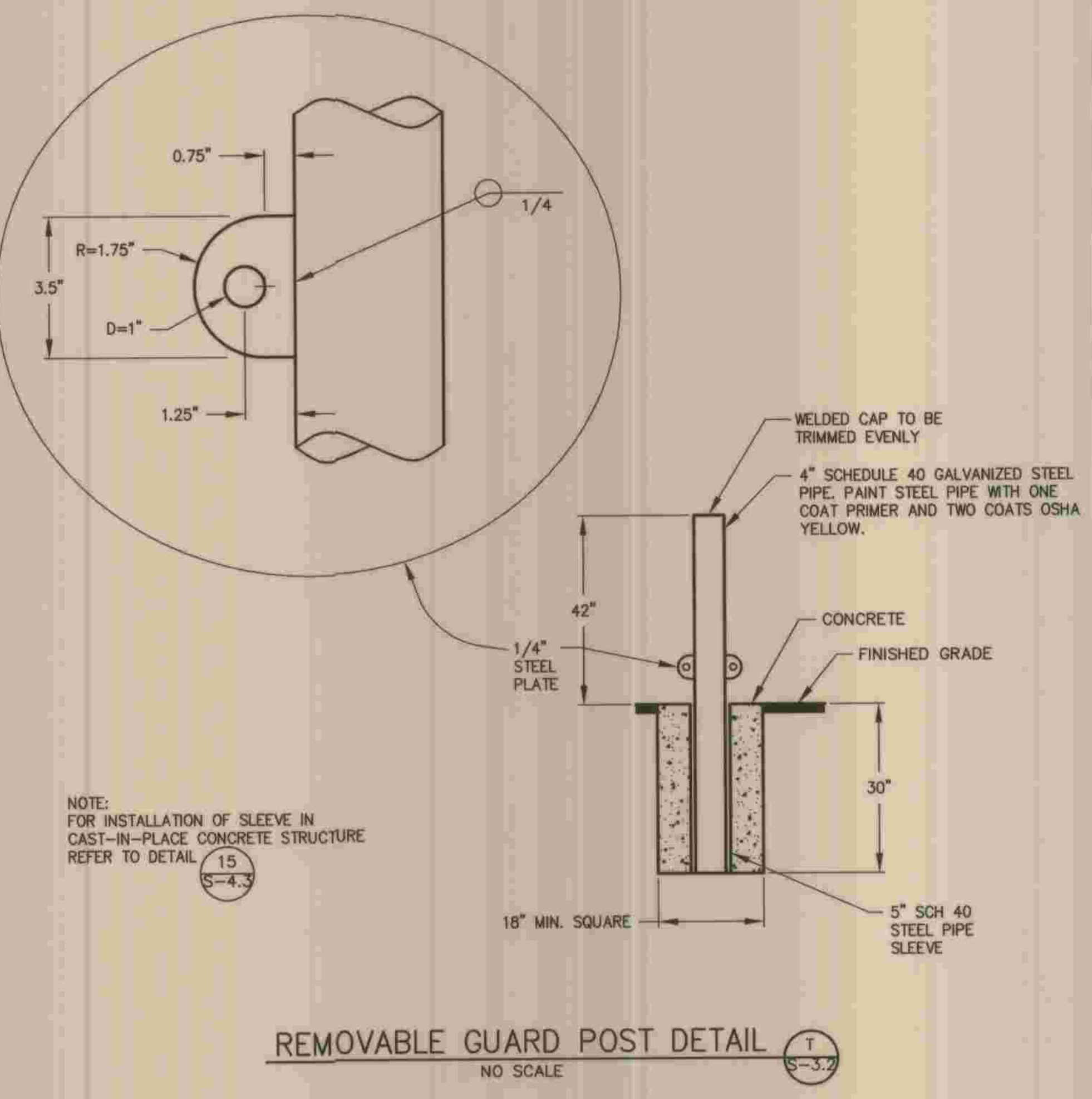
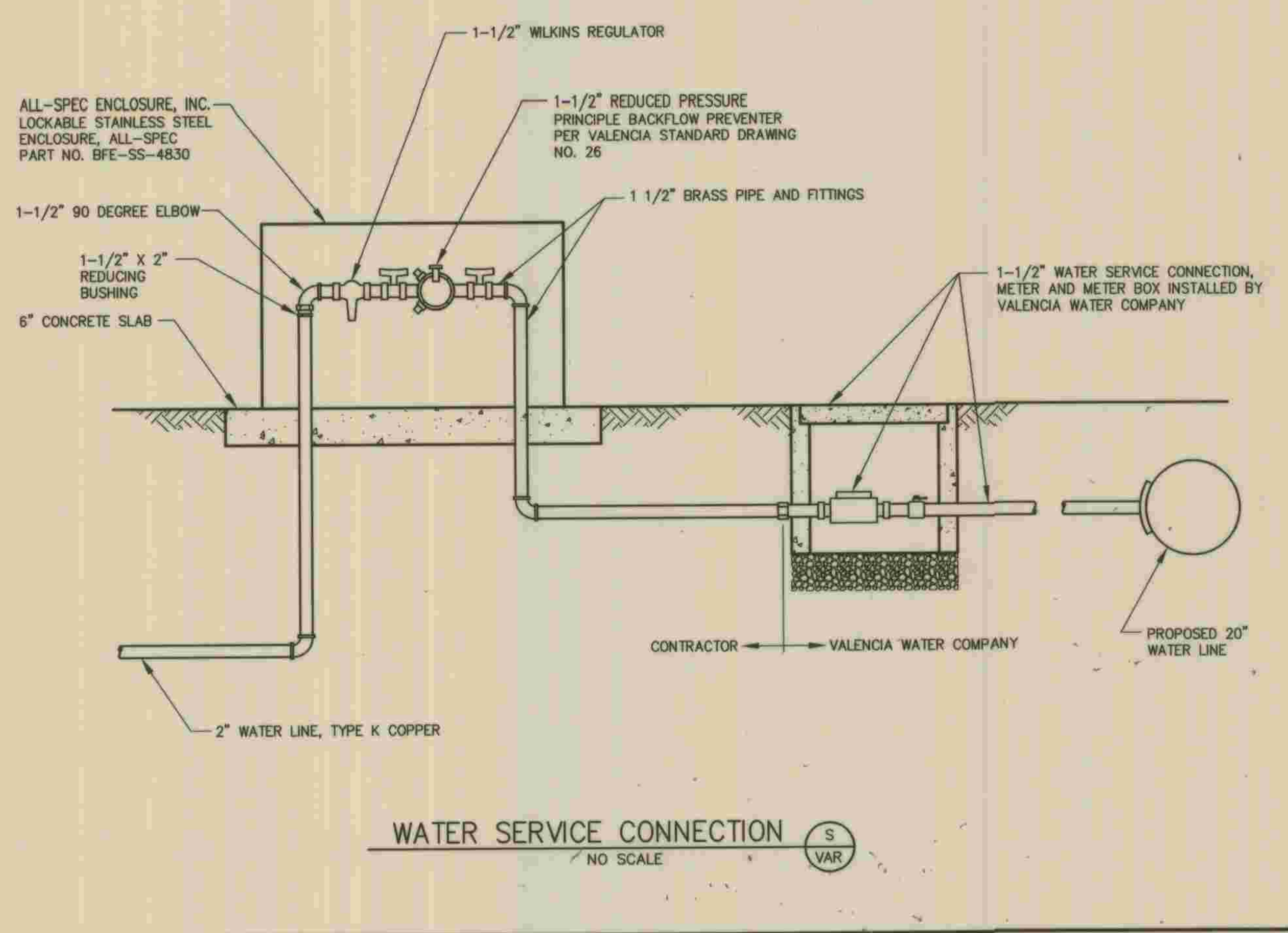
ITEM	DESCRIPTION
①	1 1/4" SCH 40 316 STAINLESS STEEL PIPE
②	1 1/4" DIAMETER 316 STAINLESS STEEL FLEX HOSE, 6" LONG, RATED FOR 20 PSI MIN., BETWEEN BLOWER AND 1 1/4" AIR PIPING
③	1 1/4" 316 STAINLESS STEEL BALL VALVE

REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.

	PLANS PREPARED BY	DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY					LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS		SPEC. NO.	M-9
	DEXTER WILSON ENGINEERING, INC. CONSULTING ENGINEERS 2234 FARADAY AVENUE CARLSBAD, CA 92008 (760) 438-4422								SHEET	
	<i>Andrew Owen</i> 5-29-09 ANDREW M. OWEN DATE	CHECKED <i>Peter Chang</i> 7-28-2009 DESIGN DIVISION DATE								41
										OF
										61
										SHEETS



NOTE: ALL VALVING AND FITTINGS TO HAVE THREADED ENDS.

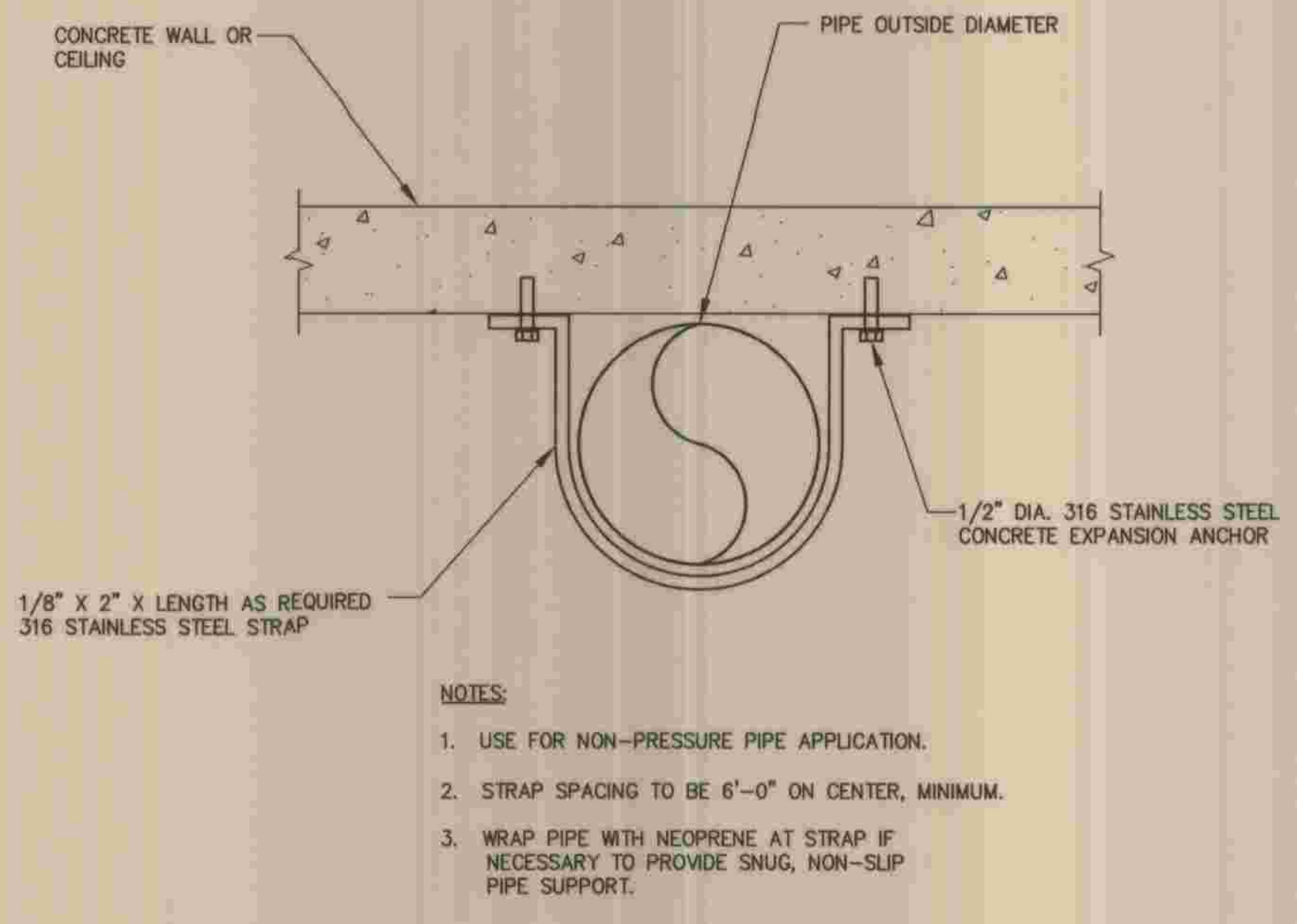


NOTES:
1. SUPPORT SUMP PUMP DISCHARGE PIPING AT 4 FOOT MAXIMUM INTERVALS PER DETAIL.

NOTES:
1. HOSE RACK SHALL BE OF ALL WELDED CONSTRUCTION. MATERIAL: 8 GAGE STEEL PLATE, HOT DIP GALVANIZED AFTER CONSTRUCTION.
2. ALL FASTENERS AND MOUNTING HARDWARE SHALL BE 316 STAINLESS STEEL.

P:\PROJECTS\2007\1102\1102-11 LAYOUT.MXD - S:\S.DWG 05-28-09 11:22:11 LAYOUT.M - D

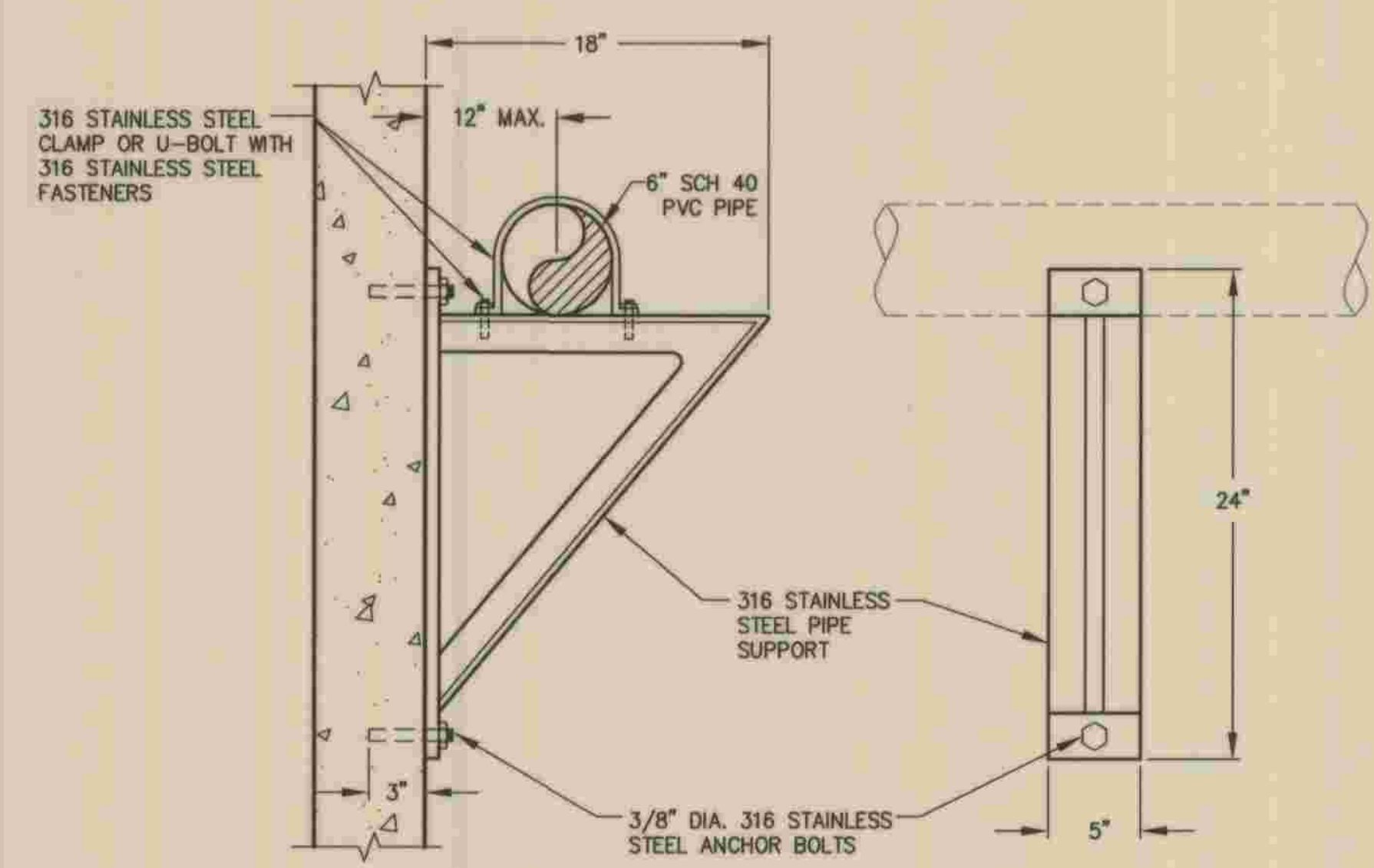
	PLANS PREPARED BY DEXTER WILSON ENGINEERING, INC. CONSULTING ENGINEERS 2234 FARADAY AVENUE CARLSBAD, CA 92008 (760) 438-4422 <i>Andrew Owen</i> 5-29-09 ANDREW M. OWEN DATE	DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY CHECKED <i>Pete Chang</i> 7-28-2009 DESIGN DIVISION DATE	<table border="1"> <tr><th>NO.</th><th>DATE</th><th>DRAWN BY</th><th>CHECK BY</th><th>REVISION</th></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	NO.	DATE	DRAWN BY	CHECK BY	REVISION																REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS. LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PARCEL MAP NO. 26363 MECHANICAL DETAILS	SPEC. NO. OF JOB NO. DRAWING NO. M-10 42 OF 61 SHEETS
	NO.	DATE	DRAWN BY	CHECK BY	REVISION																				
CONTRACT NO. _____ PROJECT NO. _____ SHEET NO. _____																									



- NOTES:
1. USE FOR NON-PRESSURE PIPE APPLICATION.
 2. STRAP SPACING TO BE 6'-0" ON CENTER, MINIMUM.
 3. WRAP PIPE WITH NEOPRENE AT STRAP IF NECESSARY TO PROVIDE SNUG, NON-SLIP PIPE SUPPORT.

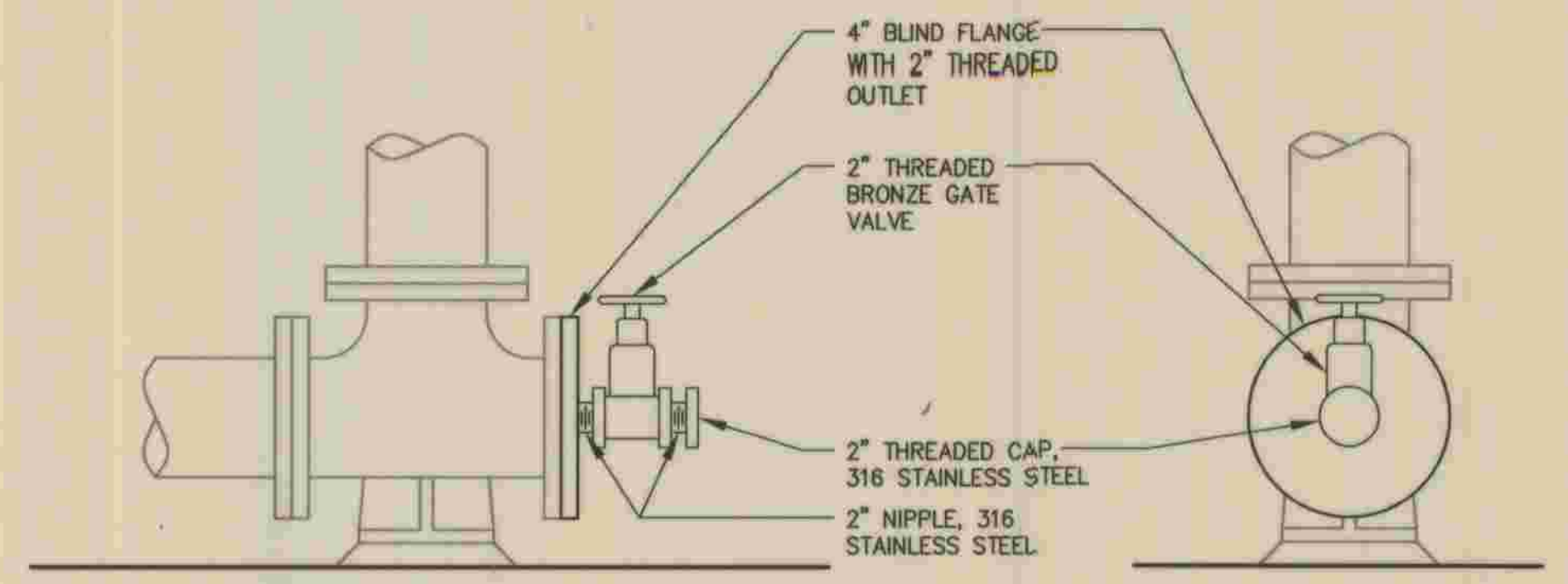
PIPE SUPPORT DETAIL
NO SCALE

Y
VAR



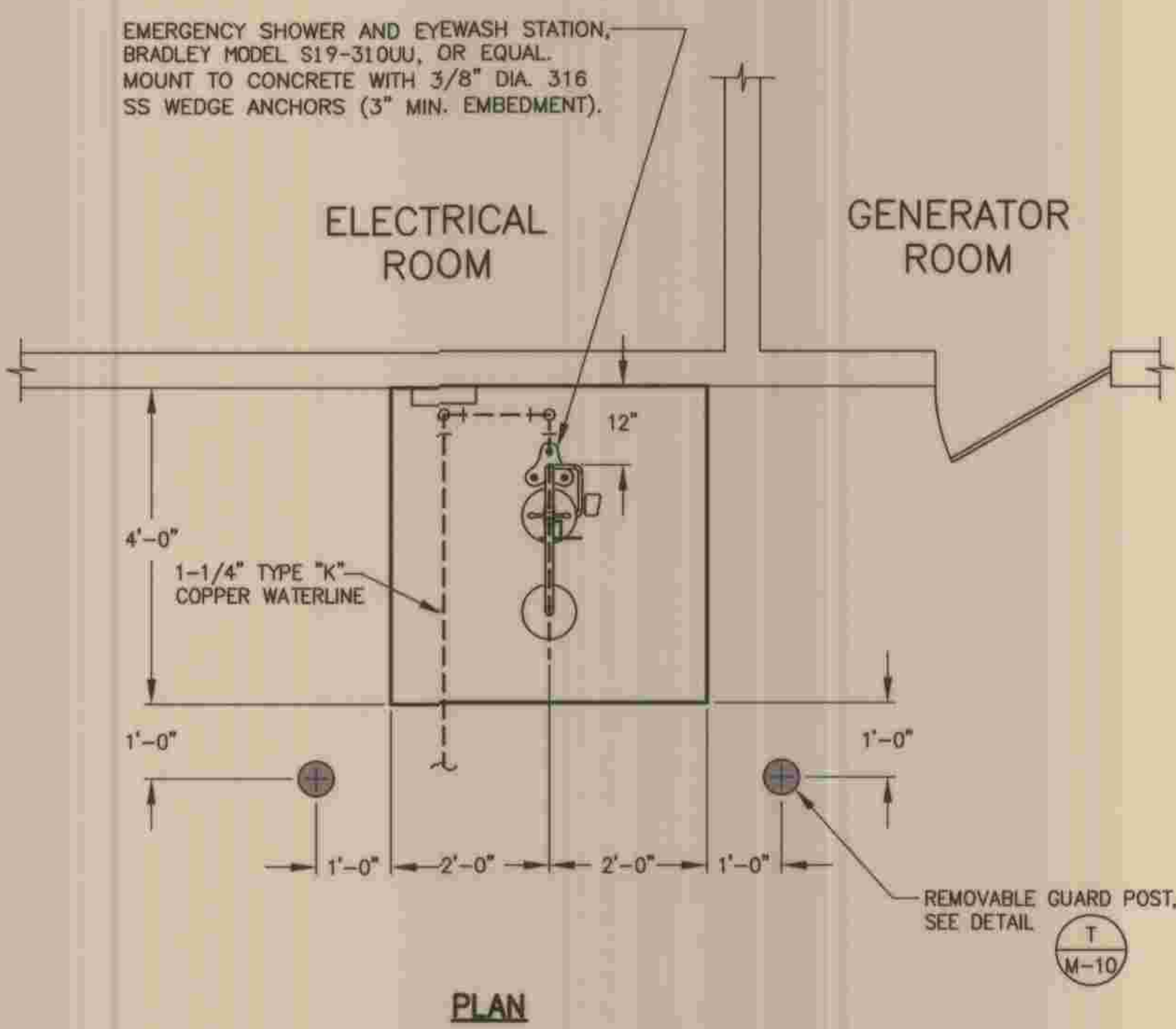
PIPE SUPPORT & BRACKET DETAIL
NO SCALE

Z
VAR



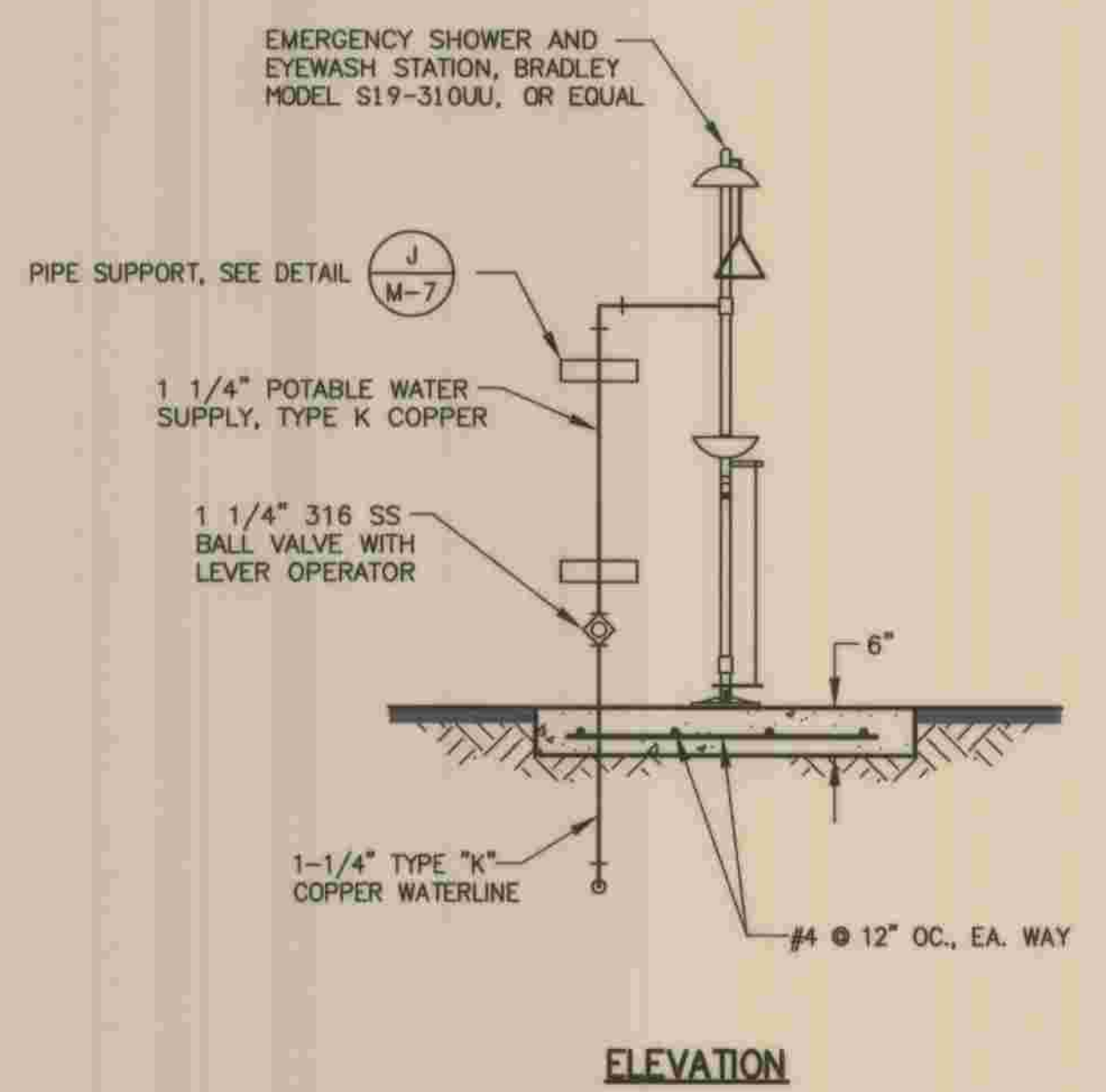
4\"/> WITH 2\"/> GATE VALVE
NO SCALE

AA
M-1

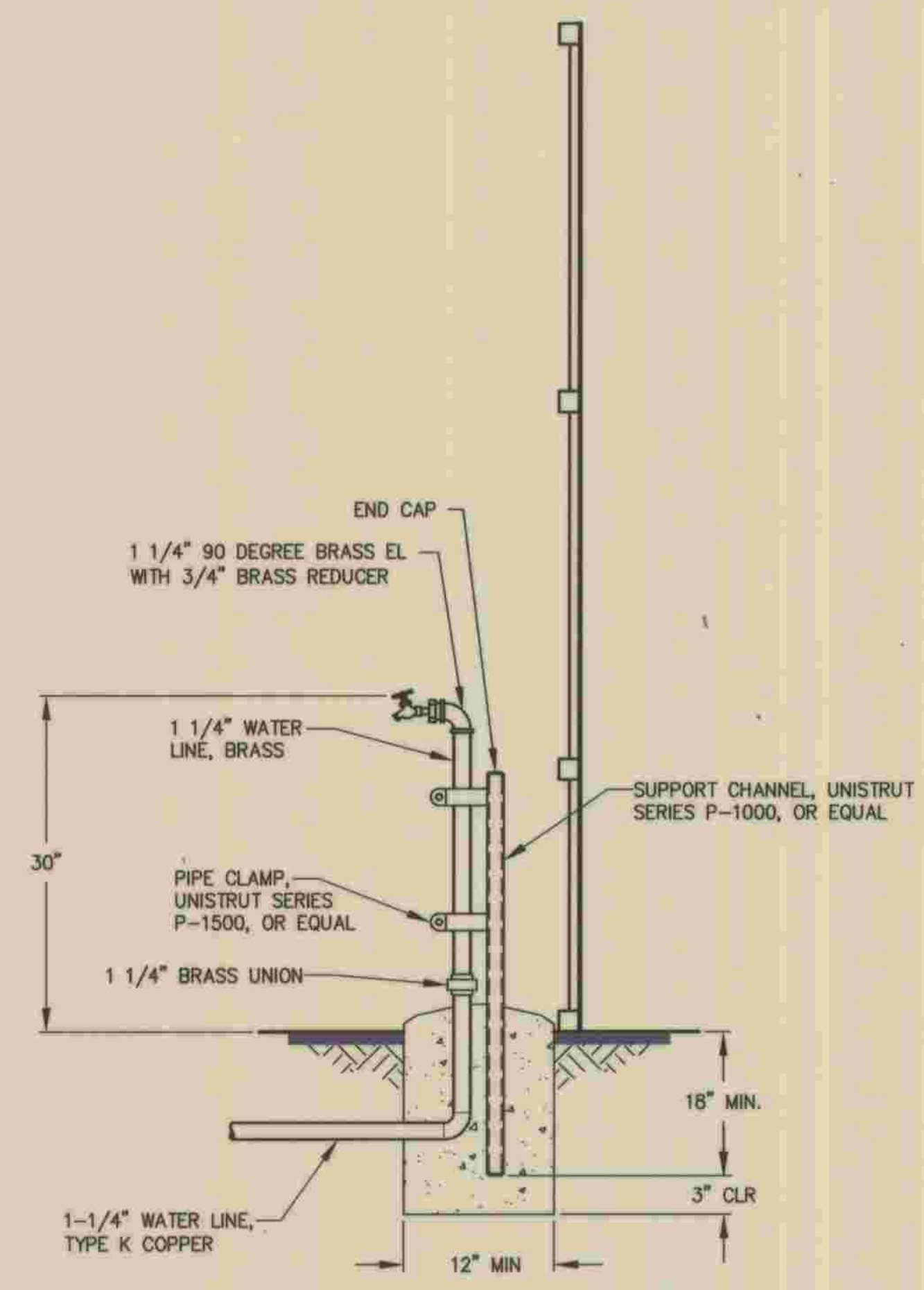


EMERGENCY SHOWER/EYEWASH STATION DETAIL
NO SCALE

T
M-10



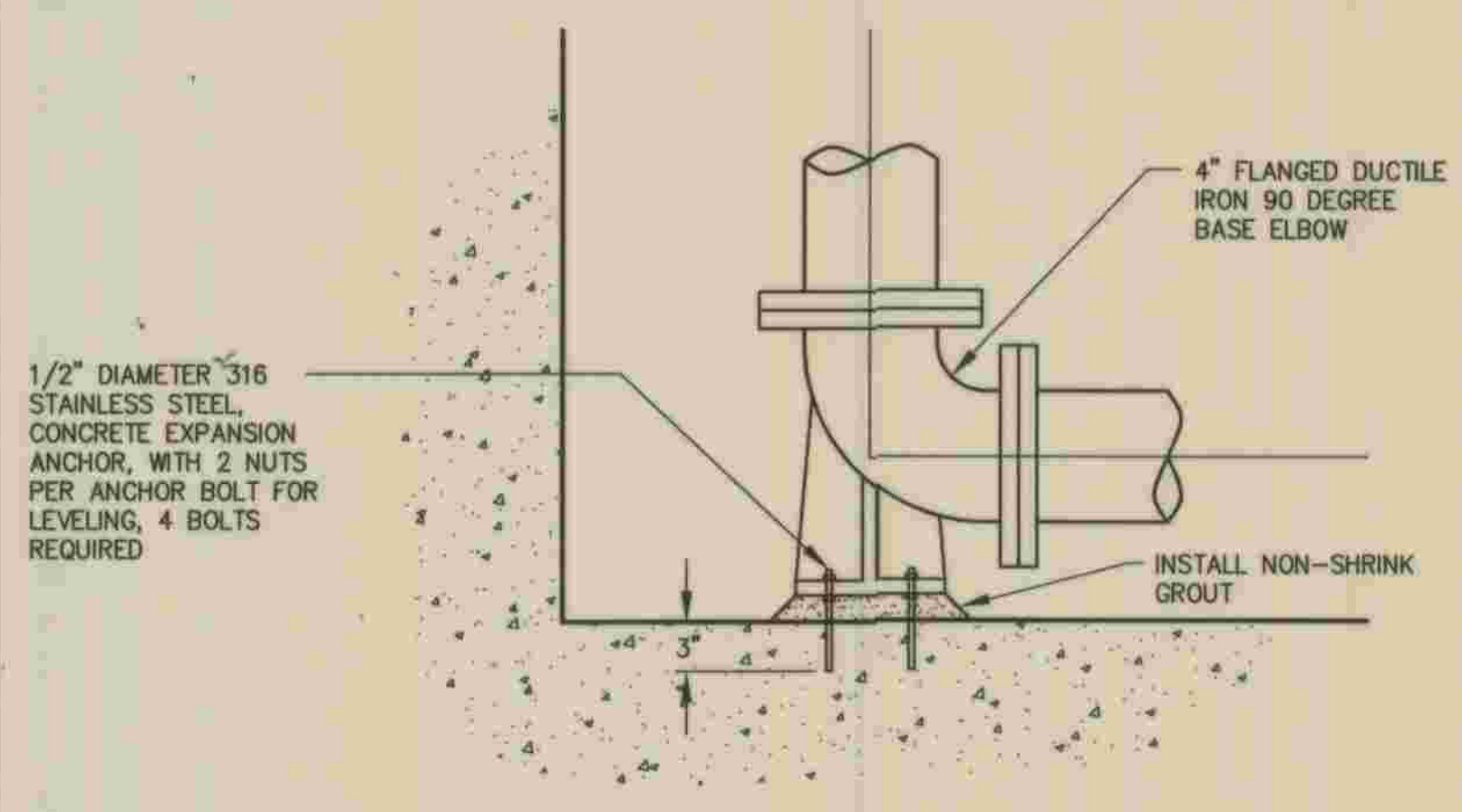
BB
VAR



HOSE BIBB DETAIL
NO SCALE

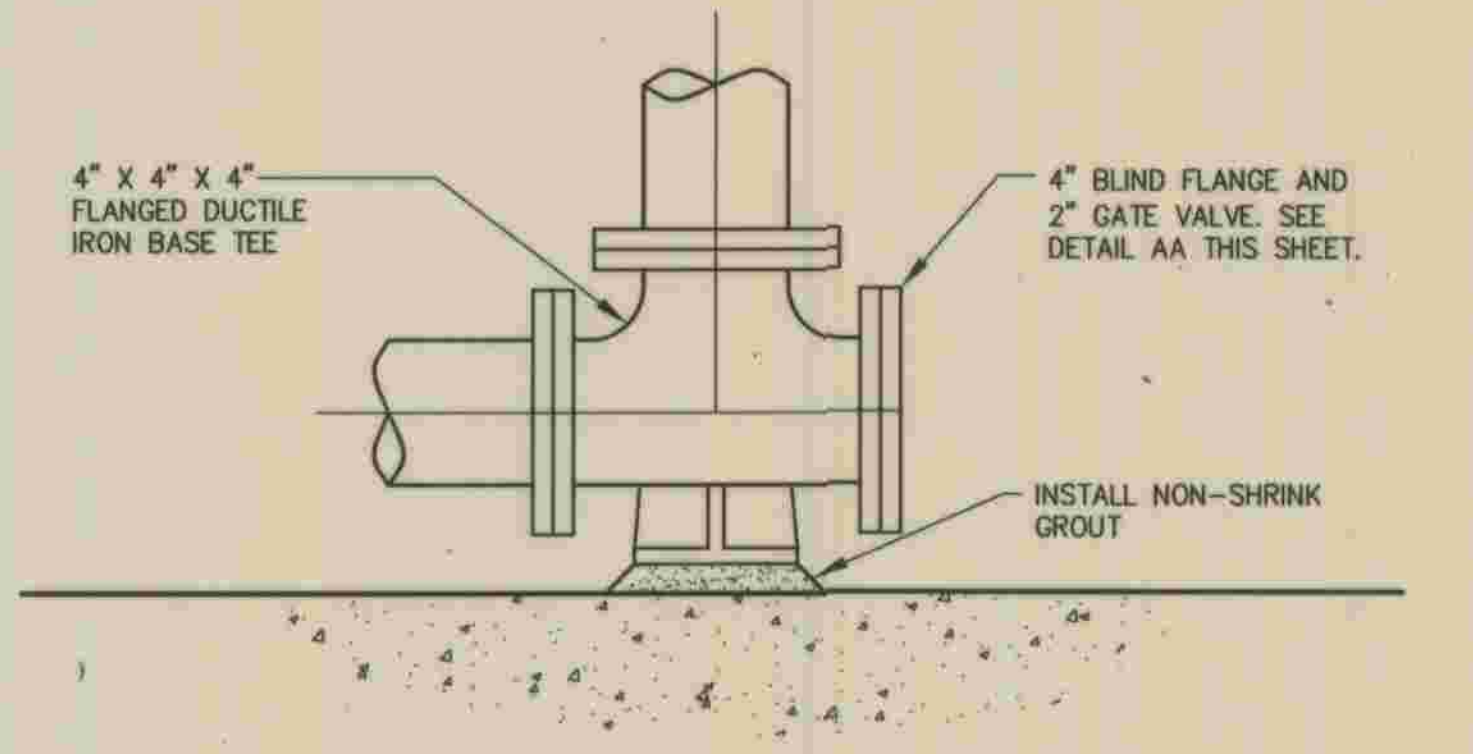
CC
C-2

NOTE: ALL VALVING AND FITTINGS TO HAVE THREADED ENDS.



BASE ELBOW ANCHORING
NO SCALE

DD
M-1



BASE TEE GROUTING
NO SCALE

EE
M-1

REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.

	PLANS PREPARED BY DEXTER WILSON ENGINEERING, INC. CONSULTING ENGINEERS 2234 FARADAY AVENUE CARLSBAD, CA 92008 (760) 438-4422 Andrew Owen 5-29-09 ANDREW M. OWEN DATE	DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY CHECKED: Peter Chang 7-28-2009 DESIGN DIVISION DATE	<table border="1"> <tr><th>NO.</th><th>DATE</th><th>DRAWN BY</th><th>CHECK BY</th><th>REVISION</th><th>APPR'D BY</th><th>APPR'D BY</th></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY								LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PARCEL MAP NO. 26363 MECHANICAL DETAILS	SPEC. NO. OF JOB NO. DRAWING NO.	M-11 SHEET 43 OF 61 SHEETS
	NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY													
REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.						M-11														

HVAC DUCTWORK SYMBOLS

SYMBOL	FEATURE
	DIRECTION OF FLOW
	DUCT SIZE-- FIRST NUMBER IS SIDE SHOWN
	ROUND DUCT
	FLAT OVAL DUCT
	DUCT SECTION, POSITIVE PRESS. FIRST NUMBER IS TOP
	DUCT SECTION, NEGATIVE PRESS. FIRST NUMBER IS TOP
	SIDE MOUNT DEVICE
	ELEVATION CHANGE (R) RISE, (D) DROP
	ACCESS DOOR
	BOTTOM MOUNT DEVICE REGISTER, GRILLE, DIFFUSER OR DUCT TAKEOFF
	FLEXIBLE CONNECTION
	FLEXIBLE DUCT
	DUCT LINING
	TURNING VANES
	BACKDRAFT DAMPER (BDD)
	MANUAL VOLUME DAMPER (VD)
	FIRE DAMPER (FDMPR) FD-3 FIRE DAMPER-3 HOUR RATED. NOTE ORIENTATION OF INSTALLATION IF NOT CLEAR FROM PLANS
	MOTOR OPERATED DAMPER (MOD)
	RECTANGULAR TO RECTANGULAR TRANSITION
	RECTANGULAR TO ROUND TRANSITION
	POSITIVE PRESSURE DUCT - ELBOW TURNED UP (USE ONE DIAGONAL FOR NEGATIVE PRESSURE)
	POSITIVE PRESSURE DUCT - ELBOW TURNED DOWN (USE ONE DIAGONAL FOR NEGATIVE PRESSURE)

ABBREVIATIONS

AD	ACCESS DOOR	EXA	EXHAUST AIR	RA	RETURN AIR
AFF	ABOVE FINISHED FLOOR	EXH	EXHAUST	RAG	RETURN AIR GRILLE
ALT	ALTITUDE	FC	FLEX CONNECTION	RED	REDUCER
AP	ACCESS PANEL	FDMPR	FIRE DAMPER	REF	ROOF EXHAUST FAN REGISTER
ATC	AUTOMATIC TEMPERATURE CONTROL	FL	FLOOR	REG	REGISTER
AUTO	AUTOMATIC	FLG	FLANGE(D)	RF	ROOF FAN
AVG	AVERAGE	FPM	FEET PER MINUTE	RG	RETURN GRILLE
BDD	BACKDRAFT DAMPER	GPM	GALLONS PER MINUTE	RPM	REVOLUTIONS PER MINUTE
BFV	BUTTERFLY VALVE	HDPE	HIGH DENSITY POLYPROPYLENE	RR	RETURN REGISTER
BHP	BRAKE HORSEPOWER	HGR	HANGER	SA	SUPPLY AIR
BOT	BOTTOM	HP	HORSE POWER	SAD	SUPPLY AIR DIFFUSER
CD	CONDENSATE DRAIN	HVAC	"HEATING, VENTILATING AND AIR CONDITIONING"	SAG	SUPPLY AIR GRILLE
CENT	CENTRIFUGAL	Hz	HERTZ	SCHED	SCHEDULE
CFM	CUBIC FEET PER MINUTE	INSUL	INSULATION	SD	SUPPLY DIFFUSER
CL or $\bar{\phi}$	CENTERLINE	MATL	MATERIAL	SF	SUPPLY FAN
CLG	CEILING	MAX	MAXIMUM	SG	SUPPLY GRILLE
CLR	CLEAR	MCA	MINIMUM CIRCUIT AMP	SPEC	"SPECIFICATION, SPECIFIED"
CTR	CENTER (ED)	MECH	MECHANICAL	SR	SUPPLY REGISTER
DB	DECIBEL	MFR	MANUFACTURER	SST	STAINLESS STEEL
DF	DILUTION FAN	MIN	MINIMUM	ST PR	STATIC PRESSURE OR SPACE (D)
DIA	DIAMETER	MISC	MISCELLANEOUS	TEMP	TEMPERATURE
DISCH	DISCHARGE	MOT	MOTOR	UL	UNDERWRITERS LABORATORY
DN	DOWN	MTD	MOUNTED	V	VOLTS
DWG	DRAWING	NOM	NOMINAL	W/	WITH
EA	EACH	NPT	AMERICAN NATIONAL TAPER PIPE THREAD	W/O	WITHOUT
EF	EXHAUST FAN	NTS	NOT TO SCALE		
EG	EXHAUST GRILLE	OB	OPPOSED BLADE DAMPER		
EL	ELEVATION	OSA	OUTSIDE AIR		
ELEC	ELECTRIC(AL)	OC	ON CENTER OR ODOR CONTROL		
ER	EXHAUST REGISTER				

HVAC MISCELLANEOUS SYMBOLS

SYMBOL	FEATURE
	SWITCH
	THERMOSTAT
	SMOKE DETECTOR
	ALIGNMENT GUIDE
	ANCHOR
	PRESSURE GAGE AND COCK
	THERMOMETER
	TRAP
	ROOF VENT OR ROOF FAN
	TYPICAL DEVICE TAG
	EG EXHAUST GRILLE
	ER EXHAUST REGISTER
	RG RETURN GRILLE
	RR RETURN REGISTER
	SD SUPPLY DIFFUSER
	SG SUPPLY GRILLE
	SR SUPPLY REGISTER
	TG TRANSFER GRILLE
	TO SPACE
	FROM SPACE
	UNDERCUT DOOR
	LOUVER DOOR

EXHAUST/SUPPLY FANS SCHEDULE

UNIT	EF 1 2	EF 3	EF 4	SF 1 2
SERVICE	PUMP ROOM	GENERATOR ROOM	RESTROOM	PUMP ROOM
TOTAL AIR, CFM	4500	550	50	4500
EXTERNAL STATIC, WG	0.5	0.5	0.25	0.25
BLOWER RPM	958	1466	1300	860
BLOWER BHP	1.04	0.12	0.01	1.87
MOTOR HP	1 1/2	1/4	1/100	2
FILTER THICKNESS, IN.	N/A	N/A	N/A	1" WASHABLE
ELECTRICAL V-Hz-PH	460-60-3	115-60-1	115-60-1	460-60-3
VARIABLE DRIVE REQ.	N/A	N/A	N/A	N/A
MANUFACTURER (OR EQUAL)	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL NUMBER (OR EQUAL)	CUBE-200-15	CUBE-098-4	CUE-060-G	RSFP-120-20
MAX. WEIGHT	200 LBS.	100 LBS.	50 LBS.	250 LBS.
ROOF/CEILING OPENING	20.5"x20.5"	14.5"x14.5"	10.5"x10.5"	21"x21"
UNIT DIMENSION (LxWxH)	35.5" x 41"	25" x 40.25"	18.5" x 13.5"	40"x40"x41.5"

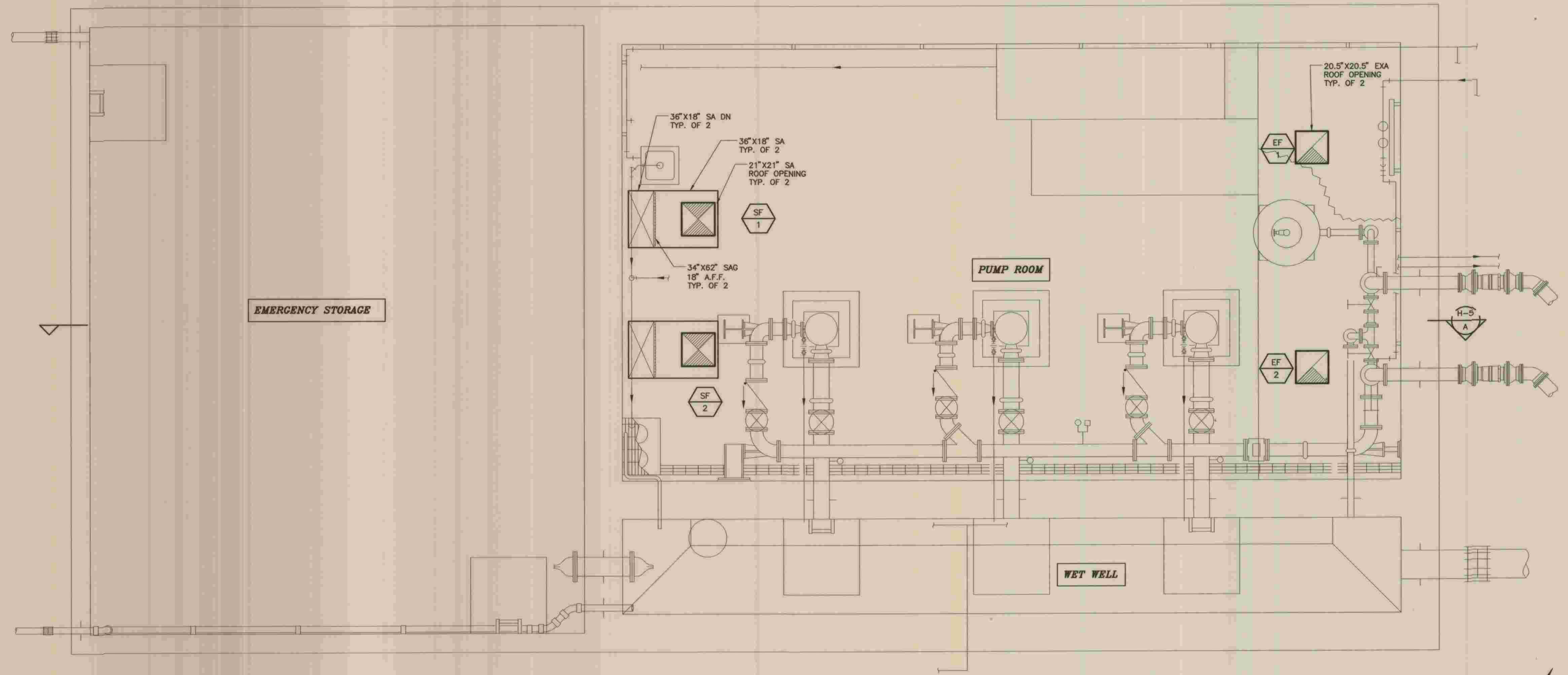
REMARKS:
 1. EXHAUST AND SUPPLY FANS SHALL BE INSTALLED ON MFR'S PREFABRICATED CURB.
 2. PROVIDE BACK DRAFT DAMPER FOR ALL EXHAUST FAN'S.
 3. EF-1&2 AND SF-1&2 SHALL BE NON-SPARK EXPLOSION PROOF TYPE.

AC UNIT SCHEDULE

DESIGNATION	AC 1
AREA SERVED	ELECTRICAL ROOM
CAPACITY, TONS	6
AIR QUANTITY, CFM	1800
COOLING BTU/HR	68500
SEER/EER	9.0
HEATING BTH	N/A
COP/EFFICIENCY	---
REFRIGERANT	R-22
OPERATING WEIGHT LBS.	600
ELECTRICAL V-Hz-PH	460-60-3
MCA/MOCP	17.6/20
ENTHALPY ECONOMIZER	YES
OUTSIDE AIR (CFM)	50
EX. PRESSURE INCH WG	1.2
MANUFACTURER (OR EQUAL)	CARRIER
MODEL NUMBER (OR EQUAL)	50TFF007
UNIT HEIGHT W/CRUB	48"

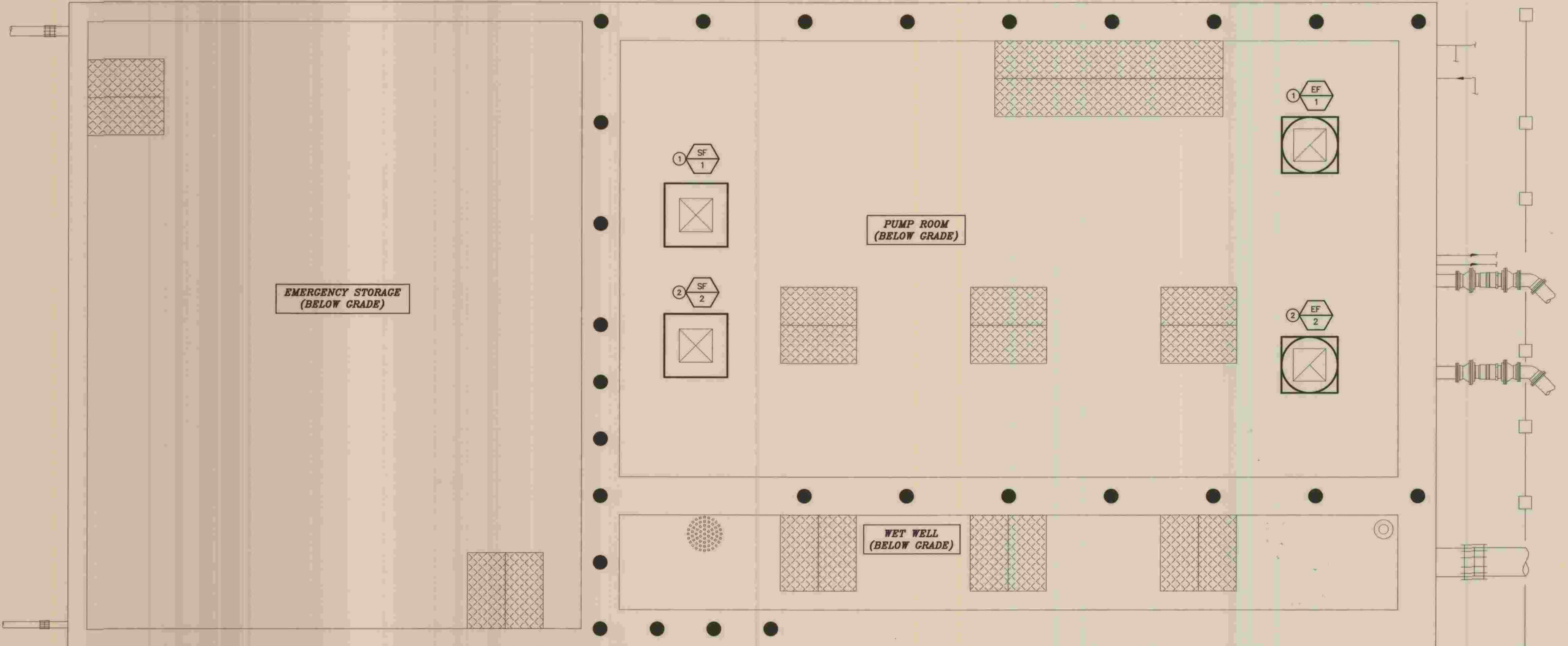
REMARK:
 1. AC UNIT SHALL BE EQUIP WITH CONVENIENCE OUTLET.

	PLANS PREPARED BY MORAES/PHAM & ASSOCIATES CONSULTING ELECTRICAL & MECHANICAL ENGINEERS 2131 PALOMAR AIRPORT RD., STE. 120 CARLSBAD CA. 92011 (760) 431-7177 Long P. Pham 5/26/09 DATE	DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY CHECKED: Peter Chang 7-28-2009 DATE DESIGN DIVISION	REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.	H-1 SHEET 44 OF 61 SHEETS
	LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PARCEL MAP NO. 26363 HVAC LEGEND, SYMBOLS, & EQUIP. SCHEDULES	SPEC. NO. OF JOB NO. DRAWING NO.	NO. DATE DRAWN BY CHECK BY REVISION APPR'D BY APPR'D BY	H-1 SHEET 44 OF 61 SHEETS



PUMP ROOM HVAC FLOOR PLAN
 3/8" = 1'-0"

	PLANS PREPARED BY MPA MORAES/PHAM & ASSOCIATES CONSULTING ELECTRICAL & MECHANICAL ENGINEERS 2131 PALOMAR AIRPORT RD., STE. 120 CARLSBAD, CA. 92011 (760) 431-7177		DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY		REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.		H-2
	LONG P. PHAM LONG P. PHAM		CHECKED <i>Peter Chang</i> DESIGN DIVISION		LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PARCEL MAP NO. 26363		SHEET 45
	5/26/09 DATE		7-8-2009 DATE		JOB NO.		OF 61
					PUMP ROOM HVAC FLOOR PLAN		SHEETS



PUMP ROOM HVAC TOP PLAN
3/8" = 1'-0"



- NOTES:
- ① EF-1 SHALL BE HARDWIRED INTERLOCK TO SF-1. THIS SYSTEM IS TO RUN CONTINUOUSLY AND WITH MANUAL START/STOP.
 - ② EF-2 SHALL BE HARDWIRED INTERLOCK TO SF-2. THIS SYSTEM IS TO RUN CONTINUOUSLY AND WITH MANUAL START/STOP.



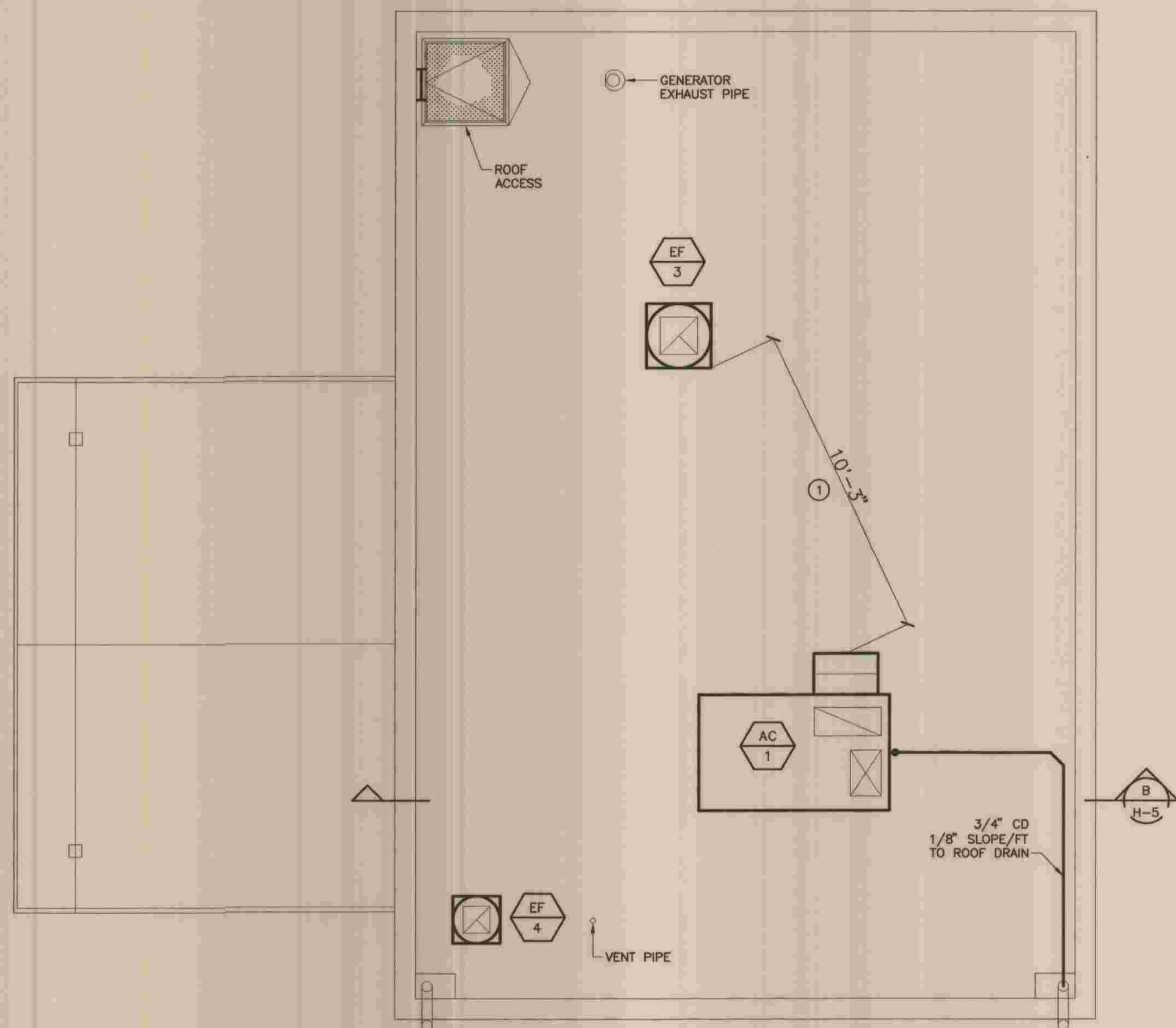
PLANS PREPARED BY
MPA MORAES/PHAM & ASSOCIATES
 CONSULTING ELECTRICAL & MECHANICAL ENGINEERS
 2131 PALOMAR AIRPORT RD., STE. 120
 CARLSBAD CA. 92011 (760) 431-7177
 Long P. Pham 5/26/09
 LONG P. PHAM DATE

DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY
 CHECKED Peter Chang 7-28-2009
 DESIGN DIVISION DATE

NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY

REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.
 LOS ANGELES COUNTY
 DEPARTMENT OF PUBLIC WORKS
 HANCOCK PARKWAY
 SEWAGE LIFT STATION (TEMPORARY)
 PARCEL MAP NO. 26363
 PUMP ROOM HVAC TOP PLAN

H-3
SHEET
46
OF
61
SHEETS



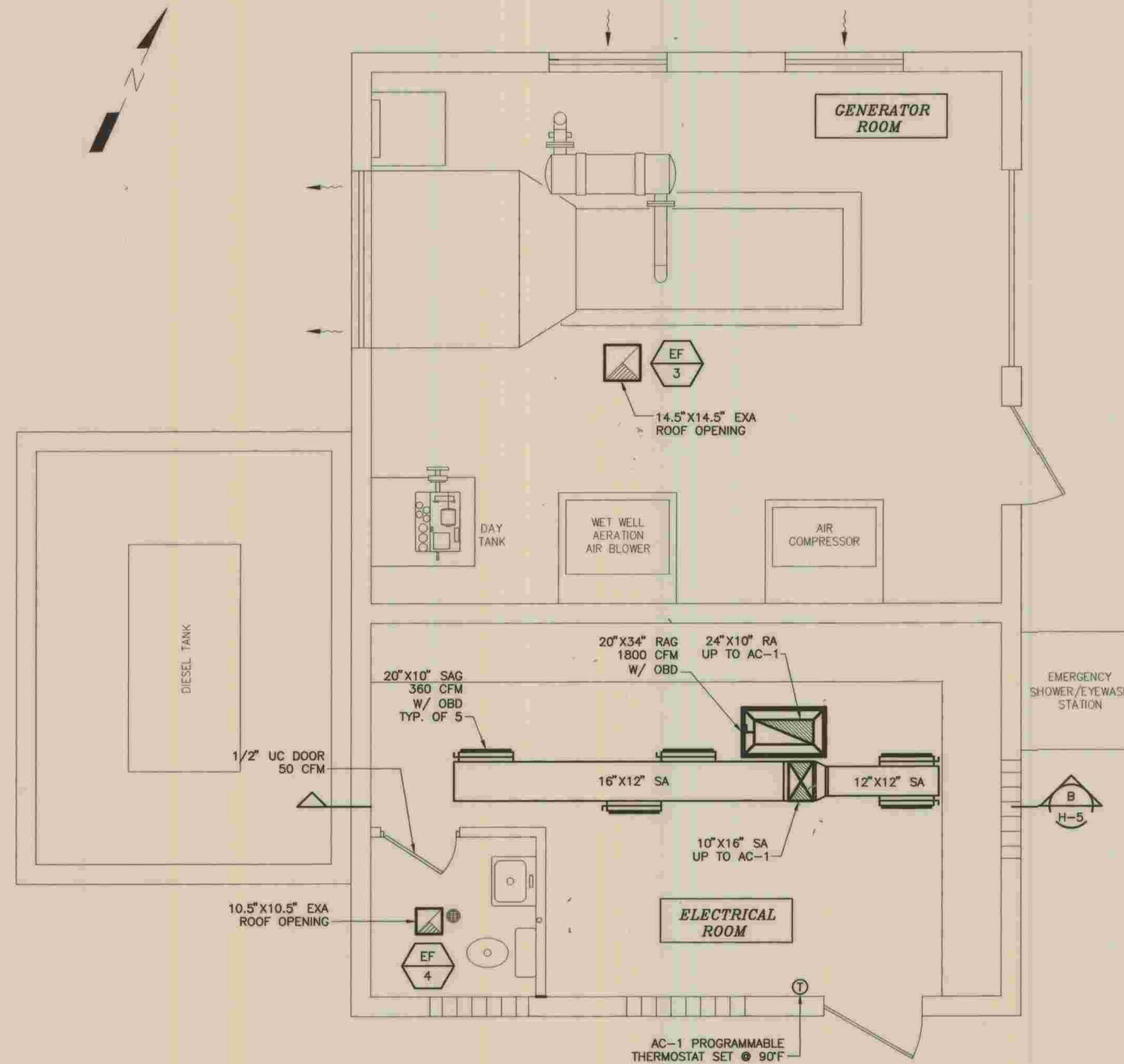
GENERATOR/ELECTRICAL ROOM HVAC ROOF PLAN

3/8" = 1'-0"



NOTE:

- ① THE NEAREST INTAKE AIR FROM EF-3 IS 10'-3".



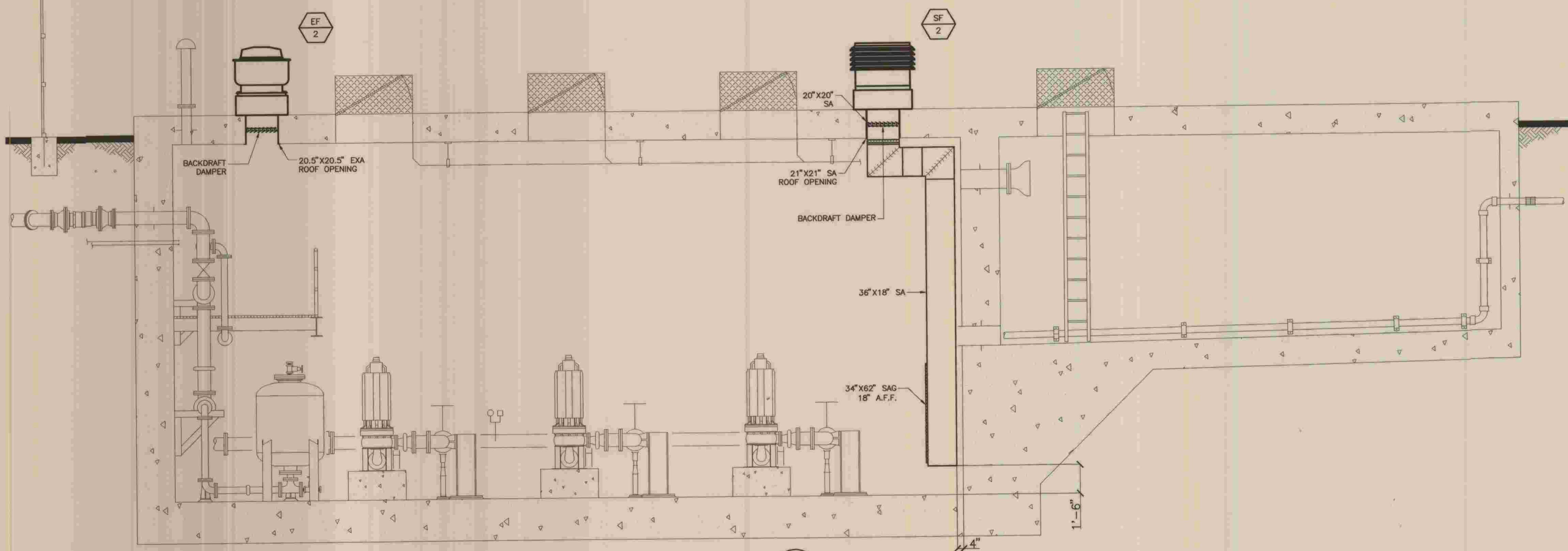
GENERATOR/ELECTRICAL ROOM HVAC FLOOR PLAN

3/8" = 1'-0"

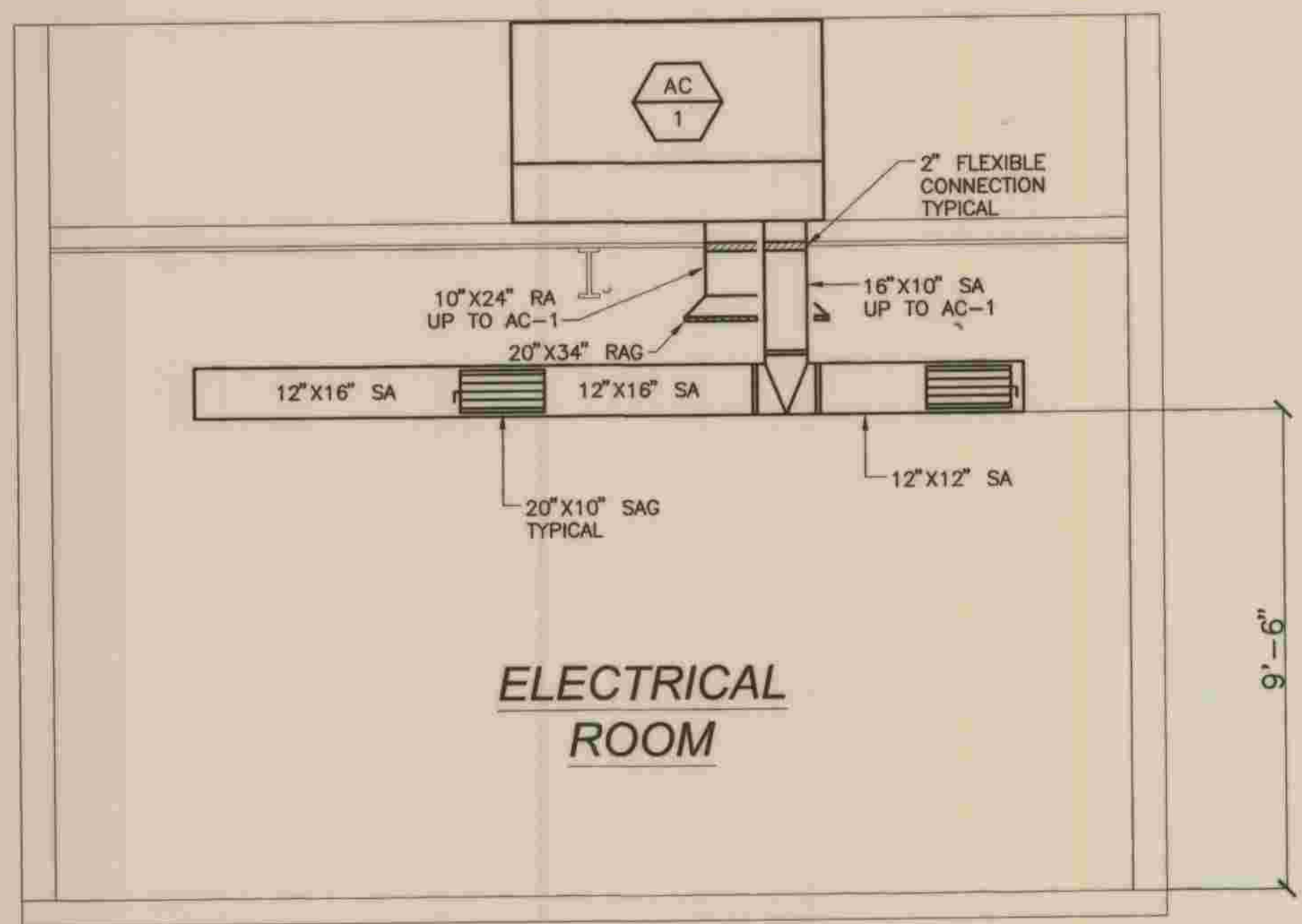


REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.

	PLANS PREPARED BY	DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY			LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS		SPEC. NO.	H-4
	MPA MORAES/PHAM & ASSOCIATES CONSULTING ELECTRICAL & MECHANICAL ENGINEERS 2131 PALOMAR AIRPORT RD., STE. 120 CARLSBAD, CA. 92011 (760) 431-7177	CHECKED	DESIGN/DIVISION	DATE	HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PARCEL MAP NO. 26363		OF	SHEET
	LONG P. PHAM DATE: 5/26/09	Peter Chang DATE: 7-28-2009			GENERATOR/ELECTRICAL ROOM HVAC FLOOR/ROOF PLANS		OF	47
					JOB NO.		OF	61
							DRAWING NO.	SHEETS

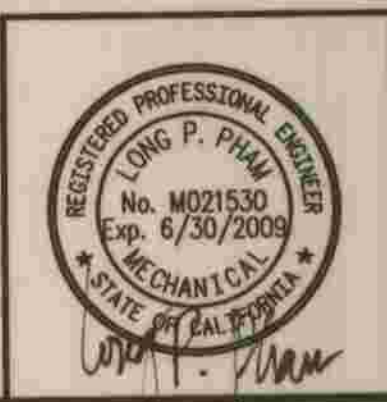


SECTION A
3/8"=1'-0" H-2



SECTION B
3/8"=1'-0" H-4

REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.



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 CARLSBAD, CA. 92001 (760) 431-7177
 Long P. Pham 5/26/09
 LONG P. PHAM DATE

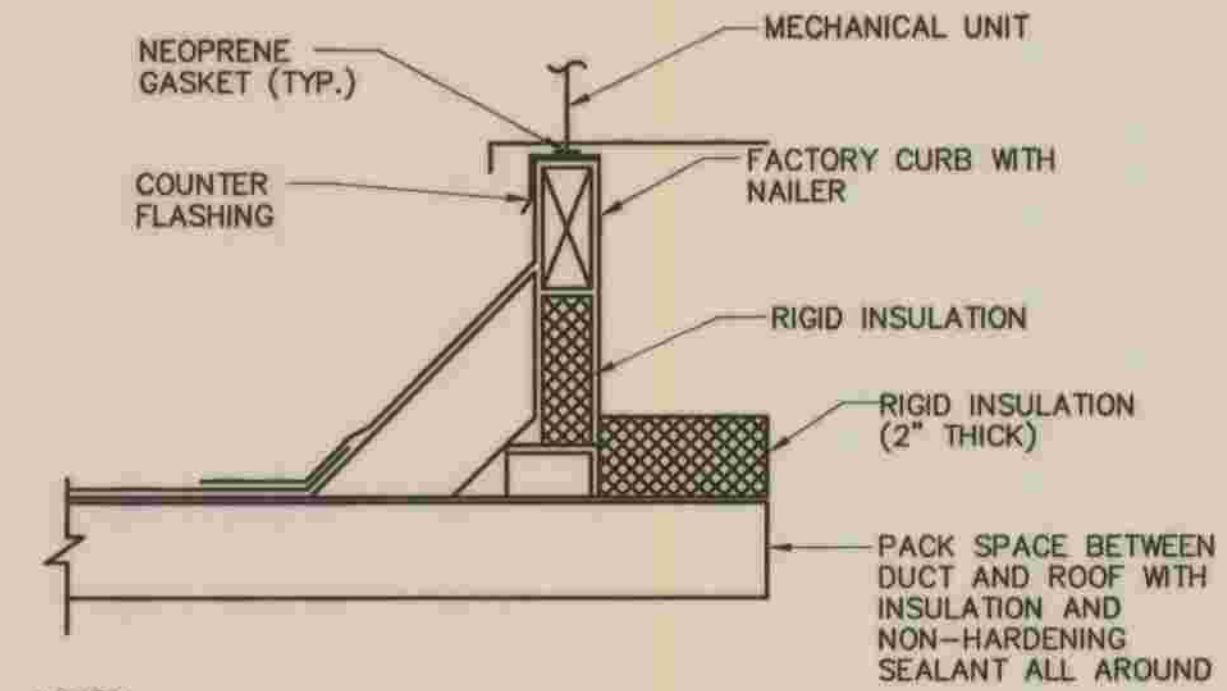
DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY
 CHECKED Peter Chang 7-27-2009
 DESIGN DIVISION DATE

NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY

LOS ANGELES COUNTY
 DEPARTMENT OF PUBLIC WORKS
**HANCOCK PARKWAY
 SEWAGE LIFT STATION (TEMPORARY)**
 PARCEL MAP NO. 26363

HVAC SECTION PLANS

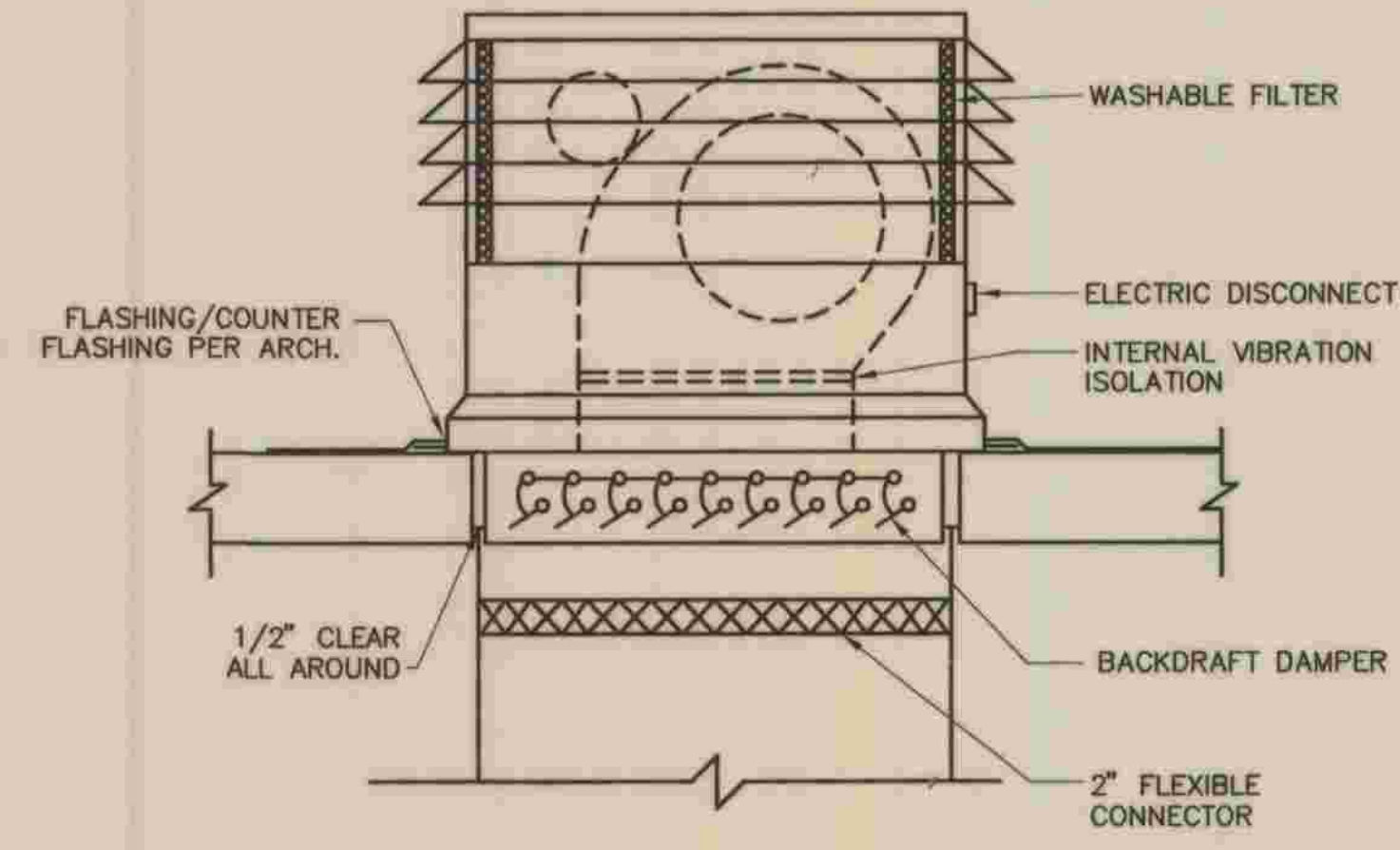
SPEC. NO.	H-5
SHEET	48
OF	OF
DRAWING NO.	61
SHEETS	SHEETS



- NOTES:
1. CONTRACTOR TO SUBMIT CALIFORNIA APPROVED SEISMIC RESTRAINTS IN SUBMITTAL PACKAGE FOR ATTACHMENT OF UNIT TO CURB. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS.
 2. BOTTOM OF UNIT SHALL BE LEVEL AND A MIN. OF 12" ABOVE FINISH ROOF.

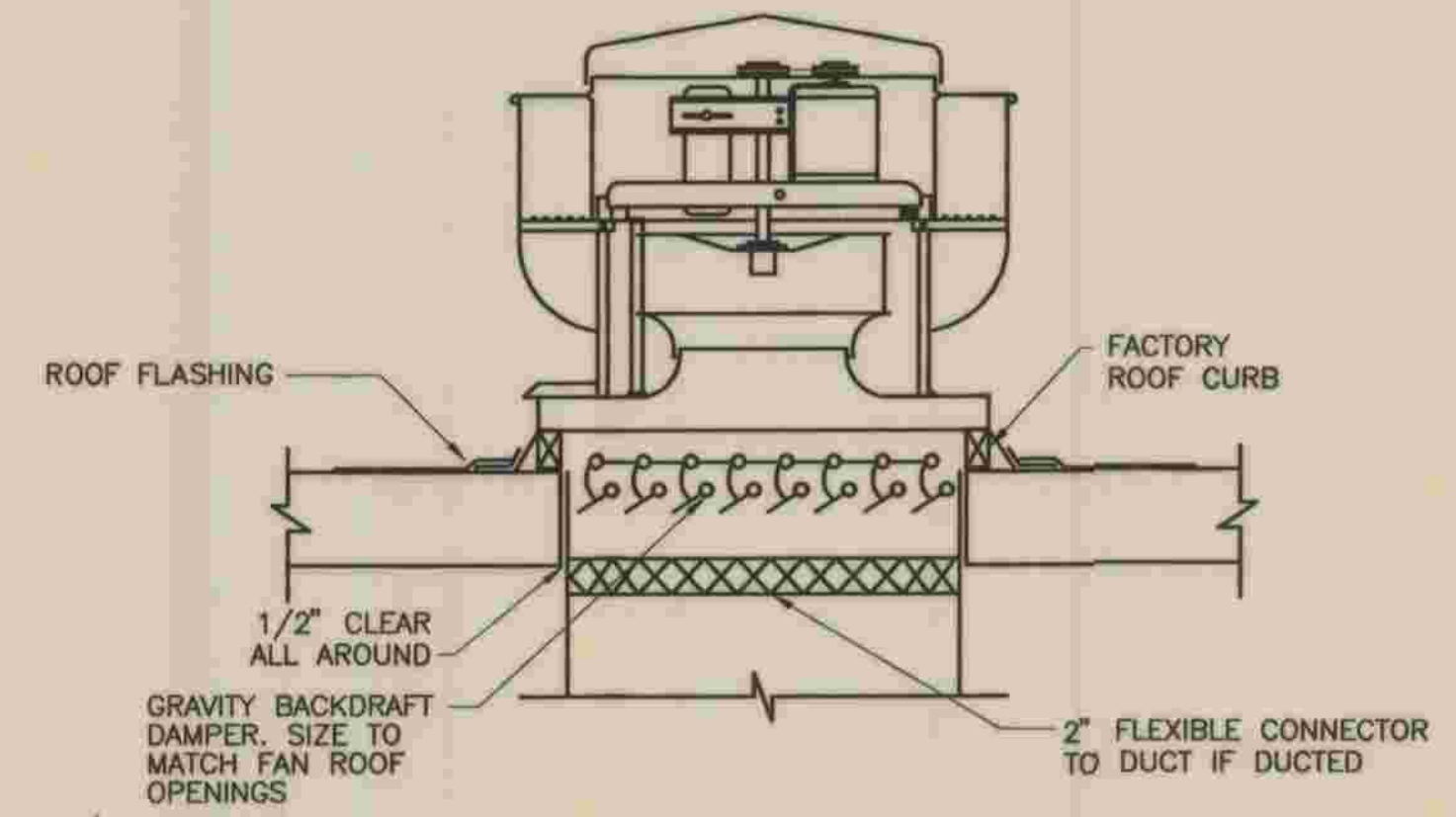
EQUIPMENT ROOF CURB

DETAIL D
NTS H-6



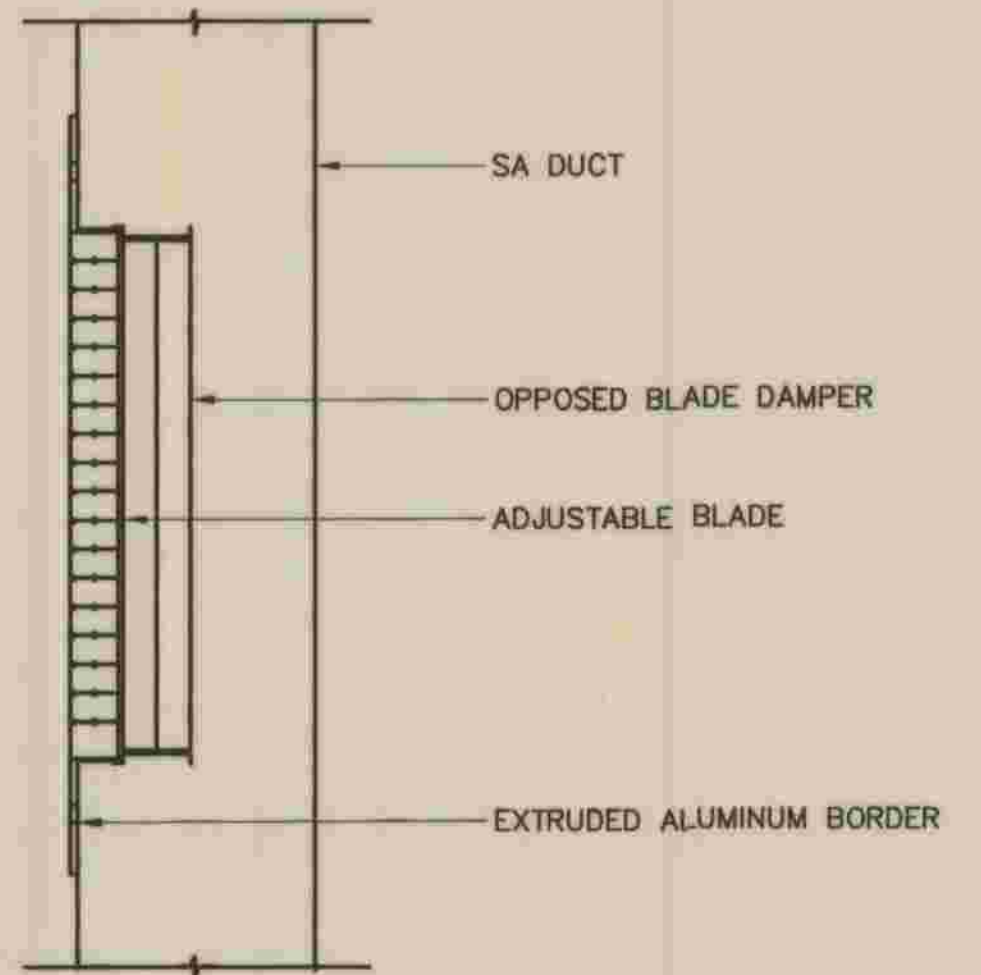
SUPPLY FAN

DETAIL E
NTS H-6



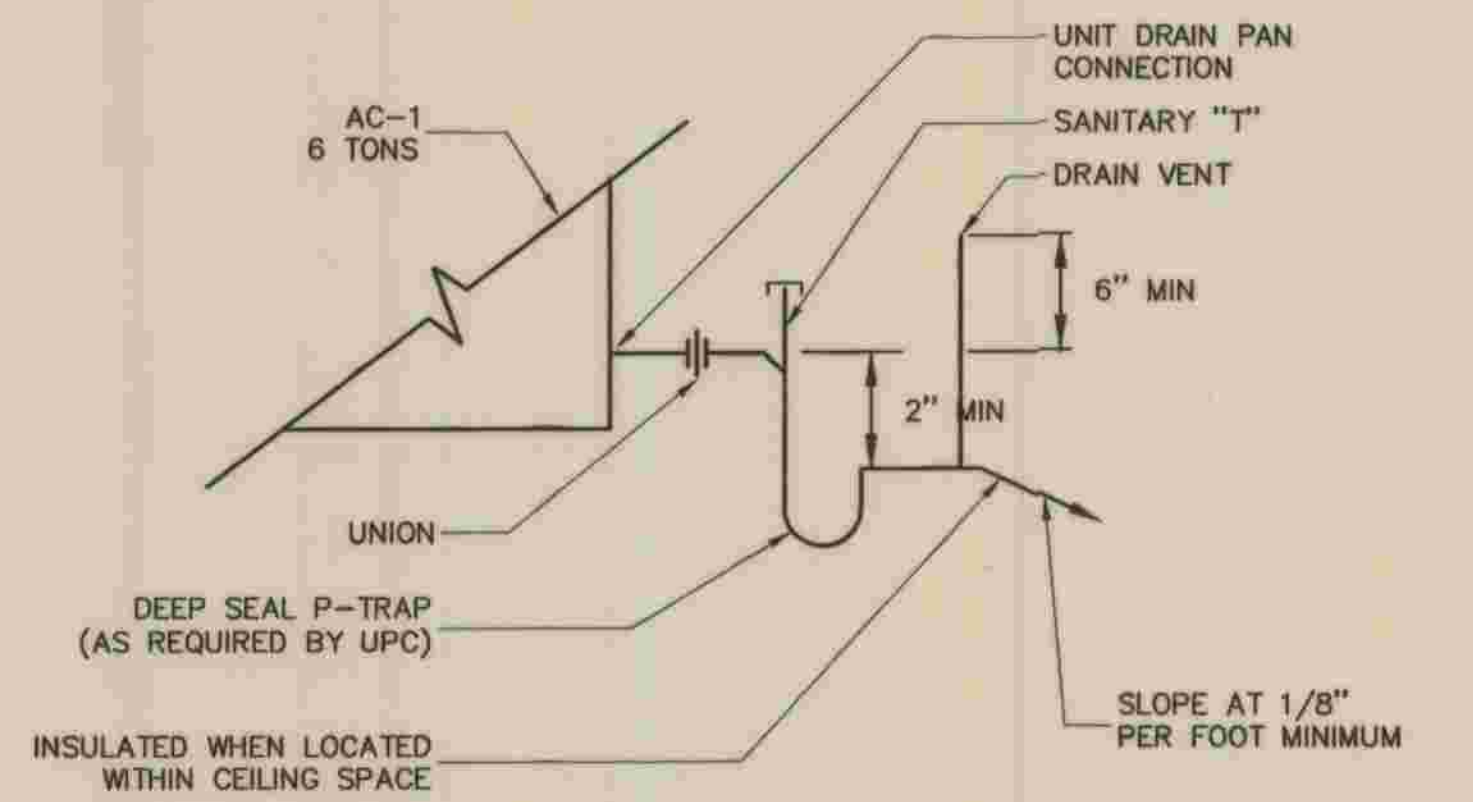
ROOF EXHAUST FAN (UP BLAST)

DETAIL A
NTS H-6



DUCT MOUNTED SUPPLY/RETURN AIR GRILLE

DETAIL B
NTS H-6



CONDENSATE DRAIN LINE

DETAIL C
NTS H-6

REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.

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LONG P. PHAM DATE	CHECKED [Signature] DESIGN DIVISION DATE 7-28-2009	<table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>DRAWN BY</th> <th>CHECK BY</th> <th>REVISION</th> <th>APPR'D BY</th> <th>APPR'D BY</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY								HVAC DETAILS	H-6 SHEET 49 OF 61 SHEETS																								
NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY																																				

CONDUIT PLAN	SINGLE LINE DIAGRAM	SCHEMATIC DIAGRAM	DESCRIPTION
			CIRCUIT BREAKER. UPPER NUMBER IS TRIP RATING. LOWER NUMBER IS NUMBER OF POLES
			THREE POSITION SWITCH. MAINTAINED CONTACT FUNCTION MAY VARY AS NOTED ON DIAGRAMS. CENTER POSITION IS OFF
			TWO POSITION SWITCH. MAINTAINED CONTACT FUNCTION MAY VARY AS NOTED ON DIAGRAMS
			MOMENTARY CONTACT PUSHBUTTON. FUNCTION MAY VARY AS NOTED ON DIAGRAMS
			MOMENTARY CONTACT PUSHBUTTON WITH PROVISION FOR LOCKOUT.
			LOCKABLE DISCONNECT SWITCH. RATING AND DETAILS AS NOTED ON DRAWINGS.
			LIMIT SWITCH. NORMALLY OPEN
			LIMIT SWITCH. NORMALLY CLOSED
			TIME DELAY RELAY CONTACT. OFF DELAY, NORMALLY OPEN, TIME OPEN
			TIME DELAY RELAY CONTACT. OFF DELAY, NORMALLY CLOSED, TIME CLOSED
			TIME DELAY RELAY CONTACT. ON DELAY, NORMALLY OPEN, TIME CLOSED
			TIME DELAY RELAY CONTACT. ON DELAY, NORMALLY CLOSED, TIME OPEN
			SOLENOID OPERATED VALVE
			MOTOR CONTROL CENTER DRAWOUT STABS
			MOTOR STARTER WITH THERMAL OVERLOADS. NUMBER INDICATES NEMA SIZE
			MOTOR OVERLOAD CONTACT
			MOTOR, NUMBER INDICATES HORSEPOWER
			INDICATING LIGHT, PUSH-TO-TEST. LETTER INDICATES COLOR. R=RED B=BLUE G=GREEN A=AMBER W=WHITE
			CONTACTOR OR RELAY COIL. LETTER OR NUMBER IS DESIGNATION
			NORMALLY CLOSED CONTACT. LETTER OR NUMBER IS DESIGNATION
			NORMALLY OPEN CONTACT. LETTER OR NUMBER IS DESIGNATION
			RUNNING TIME METER, NON-RESETTABLE
			FUSE, NUMBER INDICATES RATING
			CONTROL TRANSFORMER. RATING AS NOTED ON DRAWINGS OR AS REQUIRED BASED ON LOAD SERVED.
			KILOWATT METER
			PRESSURE SWITCH. CONTACT ACTION AS NOTED ON DRAWINGS

CONDUIT PLAN	SINGLE LINE DIAGRAM	SCHEMATIC DIAGRAM	DESCRIPTION
			POWER TRANSFORMER. RATINGS AS NOTED ON DRAWINGS
			DUPLEX RECEPTACLE. 20A, SPEC GRADE GROUNDING TYPE. UNLESS OTHERWISE NOTED ON DRAWINGS.
			TELEPHONE OUTLET
			JUNCTION BOX OR CONDUIT FITTING AS NOTED OR REQUIRED. (SHOWN WITH CONDUIT TURNING UP)
			LEVEL SWITCH, CONTACT ACTION AS NOTED ON DRAWINGS
			CONTROL PANEL OR EQUIPMENT AS NOTED
			FLOW SWITCH, CONTACT ACTION AS NOTED ON DRAWINGS
			FLUSH TOGGLE SWITCH, SINGLE POLE, SINGLE THROW
			FLUSH TOGGLE SWITCH, THREE WAY
			FLUORESCENT FIXTURE. SEE LIGHTING SCHEDULE.
			LIGHTING FIXTURE, WALL MOUNTED SEE LIGHTING SCHEDULE
			MH-MANHOLE PB-PULLBOX HH-HANDHOLE OR AS NOTED ON DRAWINGS
			TELEPHONE CONDUIT. SIZE AS NOTED
			GROUNDING GRID OR GROUNDING CONDUCTOR SIZE AS REQUIRED OR AS NOTED ON DRAWINGS
			GROUND PIGTAIL. SIZE AS NOTED ON DRAWINGS
			EXOTHERMIC GROUND CONNECTION
			BOLTED GROUND CONNECTION
			CONDUIT BENDING UP
			CONDUIT BENDING DOWN
			UNDERGROUND OR CONCEALED CONDUIT, 1" MINIMUM
			EXPOSED CONDUIT, 3/4" MINIMUM.
			HOMERUN CONDUIT WITH 3 CONDUCTORS, NEUTRAL AND GROUND, CIRCUITS 1,3,5 PANEL PB1, NO HASHMARKS INDICATE 2 CONDUCTORS AND GROUND
			DRIVEN GROUND ROD/TEST WELL 3/4" x 10' Cu CLAD STEEL
			PANELBOARD OR AS NOTED ON DRAWING
			LIQUIDTIGHT FLEXIBLE CONDUIT
			CONDUIT NUMBER 'XXX', REFER TO CONDUIT SCHEDULE FOR DESCRIPTION

CONDUIT PLAN	SINGLE LINE DIAGRAM	SCHEMATIC DIAGRAM	DESCRIPTION
			MANUAL MOTOR STARTER
			GROUND
			HEATER, RATING AS NOTED ON DRAWING
			HORN OR AUDIBLE SIGNAL
			PHASE
			TERMINAL, INTERNAL WIRING
			TERMINAL, FIELD WIRING
			DOOR SWITCH
			CONDUIT STUB OUT
			DISCONNECT SWITCH, F = FUSED NF = NON-FUSED XX = AMP RATING
			TELEMETRY INPUT POINT
			PLC INPUT POINT AT RTU

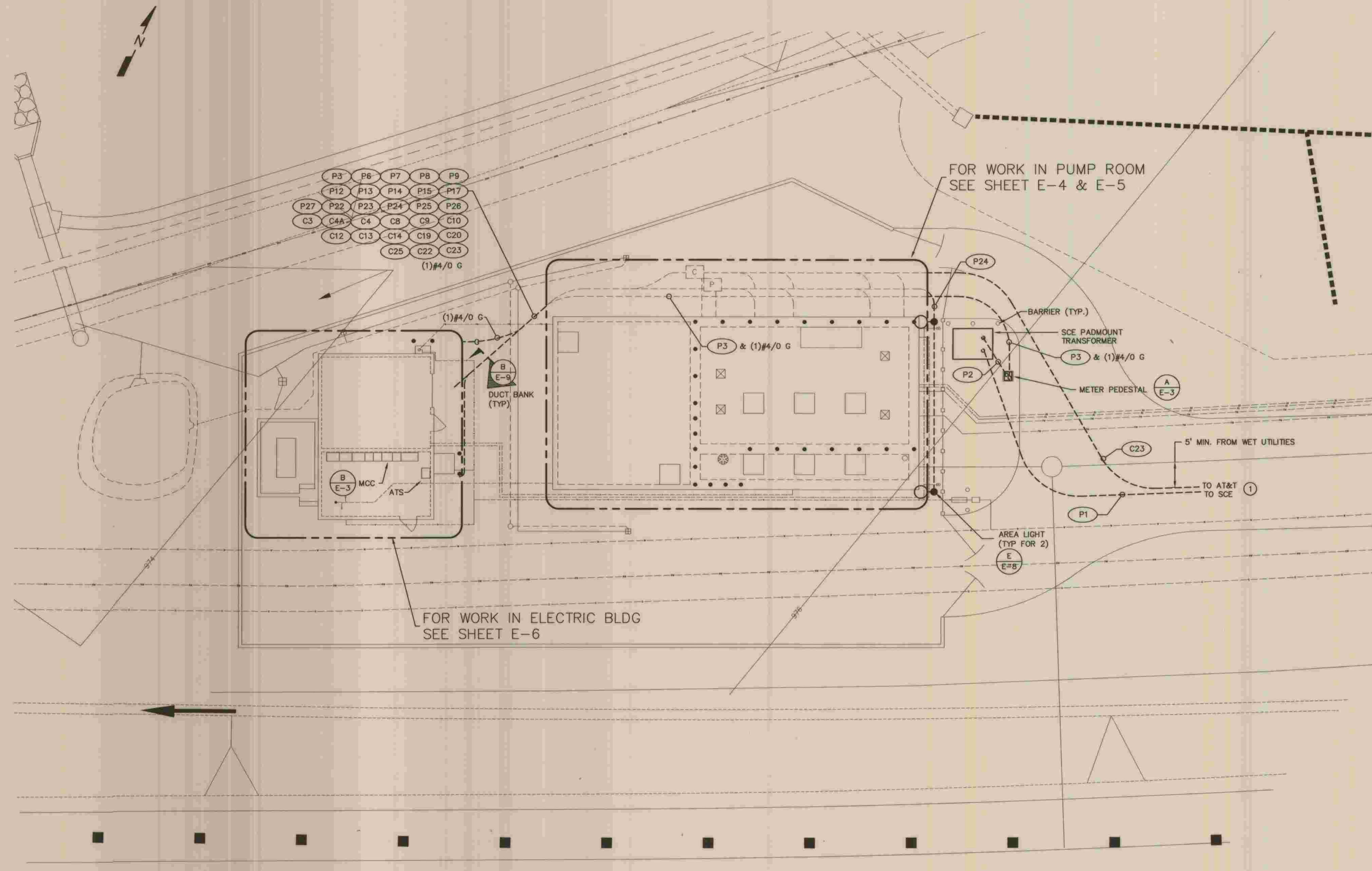
UTILITY COMPANY	
SOUTHERN CALIFORNIA EDISON PROJECT MANAGEMENT -	AT&T PROJECT MANAGEMENT -
CONTACT: SANDRA BROOKS (661) 257-8223	CONTACT: LORI TOROSSIAN (661) 251-3336

STANDARD ABBREVIATIONS

A	AMPERES	MH	MANHOLE
AC	ALTERNATING CURRENT	MIN	MINIMUM OR MINUTE
AF	AMPERE FRAME	MLO	MAIN LUGS ONLY
AFC	ABOVE FINISHED CONCRETE	MOV	MOTOR OPERATED VALVE ACTUATOR
AFF	ABOVE FINISHED FLOOR	MSB	MAIN SWITCHBOARD
AFG	ABOVE FINISHED GRADE	MTG	MOUNTING
AT	AMPERE TRIP	MTR	MOTOR
ATS	AUTOMATIC TRANSFER SWITCH	N	NEUTRAL
AUX	AUXILIARY	NA	NON-AUTOMATIC
AUTO	AUTOMATIC	NC	NORMALLY CLOSED
AWG	AMERICAN WIRE GAUGE	NCO	NORMALLY CLOSED, INSTANTANEOUS OPEN
BC	BARE COPPER	NCTC	NORMALLY CLOSED, TIME CLOSE
BD	BOARD	NCTO	NORMALLY CLOSE, TIME OPEN
BKR	BREAKER	NEC	NATIONAL ELECTRIC CODE
C	CONDUIT	NIC	NOT IN CONTRACT NUMBER
CAB	CABINET	No	NORMALLY OPEN
CB	CIRCUIT BREAKER	NO	NORMALLY OPEN, NORMALLY OPEN, INSTANTANEOUS CLOSE
CKT	CIRCUIT	NOIC	NORMALLY OPEN, INSTANTANEOUS CLOSE
CLG	CEILING	NOTC	NORMALLY OPEN, TIME CLOSE
C.O.	CONDUIT ONLY	NOTO	NORMALLY OPEN, TIME OPEN
COMP	COMPARTMENT	NP	NAMEPLATE
COND	CONDUCTOR	NTS	NOT TO SCALE
CONT	CONTROL	OL	OVERLOAD
CONTD	CONTINUED	OTT	OVERTEMP SWITCH
CPT	CONTROL POWER TRANSFORMER	PB	PUSHBUTTON
CP	CONTROL PANEL	PC	PULLBOX
CT	CURRENT TRANSFORMER	PCV	PHOTOCELL
CU	COPPER	PFR	PUMP CONTROL VALVE
CR	CONTROL RELAY	PML	POWER MONITOR RELAY
DC	DIRECT CURRENT	PNL	PANEL
DISC	DISCONNECT	POS	POSITION
DISC SW	DISCONNECT SWITCH	PR	PAIR
DPDT	DOUBLE POLE DOUBLE THROW	PRI	PRIMARY
DPST	DOUBLE POLE SINGLE THROW	PS	PRESSURE SWITCH
DWG	DRAWING	PT	POTENTIAL TRANSFORMER
DS	DOOR SWITCH	PVC	POLYVINYL CHLORIDE
ELELEV	ELEVATION	PVC/RGS	PVC JACKETED RIGID GALVANIZED STEEL CONDUIT
EMT	ELECTRICAL METALLIC TUBING	PW	PART WINDING
EO	ELECTRICALLY OPERATED	RECEP	RECEPTACLE
EXIST	EXISTING	RCP	REMOTE CONTROL PANEL
FBO	FURNISHED BY OWNER	RCS	RIGID GALVANIZED STEEL CONDUIT
FDR	FEEDER	RTU	REMOTE TERMINAL UNIT
FIN	FINISHED	RVAT	REDUCED VOLTAGE AUTO TRANSFORMER
FLA	FULL LOAD AMPS	RVYD	REDUCED VOLTAGE WYE DELTA
FLEX	FLEXIBLE	SCE	SOUTHERN CALIFORNIA EDISON
FM	FLOW METER	SEC	SECONDARY
FS	FLOW SWITCH	SEL	SELECTOR
FT OR FT	FEET OR FOOT	SP	SPARE
FT	FLOW TRANSMITTER	SPEC	SPECIFICATION
FUT	FUTURE	SPDT	SINGLE POLE DOUBLE THROW
FVNR	FULL VOLTAGE NON REVERSING GALVANIZED	SPST	SINGLE POLE SINGLE THROW
GALV	GALVANIZED	SS	STAINLESS STEEL
GD	GAS DETECTORS	SSRV	SOLID STATE REDUCED VOLTAGE STARTER
GFI	GROUND FAULT INTERRUPTER	ST	SHUNT TRIP
GFP	GROUND FAULT PROTECTION	STA	STATION
GND OR G	GROUND	STL	STEEL
HCU	HARMONIC CONTROL UNIT	STP	SHIELDED TWISTED PAIR
HH	HANDHOLE	STR	STARTER
HOA	HAND/OFF/AUTO	STT	SHIELDED TWISTED TRIPLET
HTR	HEATER	SV	SOLENOID VALVE
IC	INTERRUPTING CURRENT	SW	SWITCH
IN OR IN	INCHES OR INCH	SWBD	SWITCHBOARD
IND	INDICATING	TB	TERMINAL BOX
INST	INSTANTANEOUS	TEL	TELEPHONE
INSTR	INSTRUMENT	TEMP	TEMPERATURE
INTLK	INTERLOCK	TERM	TERMINAL
JB OR J	JUNCTION BOX, CONDULET OR FITTING AS REQUIRED BY NEC. UNLESS OTHERWISE NOTED	TM	TELEMETRY
		TS	TEMPERATURE SWITCH
		TS2W	TWO SPEED TWO WINDING
		TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
		TW/SH	TWISTED SHIELDED
		TYP	TYPICAL
		UG	UNDERGROUND
		UON	UNLESS OTHERWISE NOTED
		V	VOLTS
		W	WATTS
		W/O	WITHOUT
		WP	WEATHERPROOF
		XFMR	TRANSFORMER
		XP	EXPLOSION PROOF
		ZS	POSITION SWITCH OR LIMIT SWITCH
		3W	THREE WIRE
		4W	FOUR WIRE

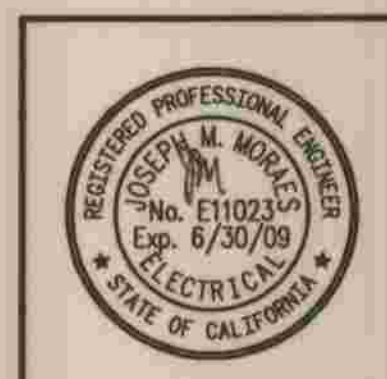
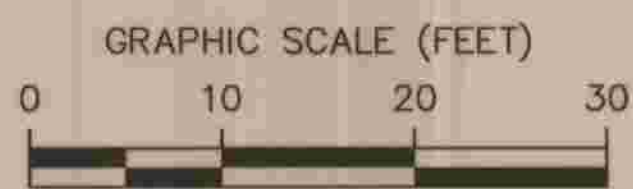
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	NO.	DATE	DRAWN BY	CHECK BY	REVISION											
STANDARD ELECTRICAL SYMBOLS AND ABBREVIATIONS			APPR'D BY APPR'D BY	STANDARD ELECTRICAL SYMBOLS AND ABBREVIATIONS												



ELECTRICAL SITE PLAN
1" = 10'

① REFER TO UTILITY DRAWINGS FOR CONTINUATION.



PLANS PREPARED BY
MPA MORAES/PHAM & ASSOCIATES
 CONSULTING ELECTRICAL & MECHANICAL ENGINEERS
 2131 PALOMAR AIRPORT RD., STE. 120
 CARLSBAD CA. 92011 (760) 431-7177
 Joseph M. Moraes 5/20/09
 DATE

DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY
 OPERATIONAL SERVICES DIVISION
 Michael C. Tran 7/25/09
 DATE

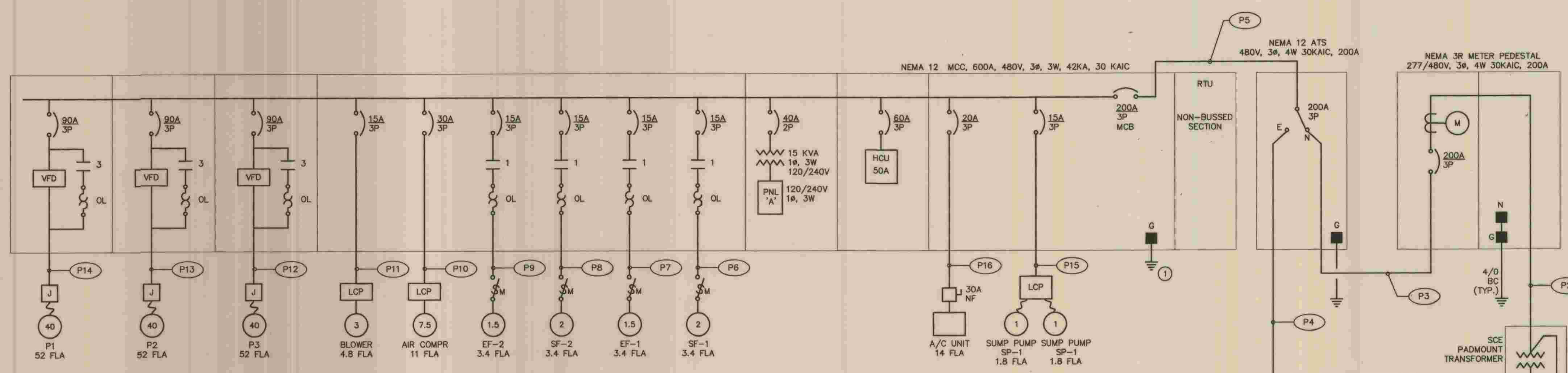
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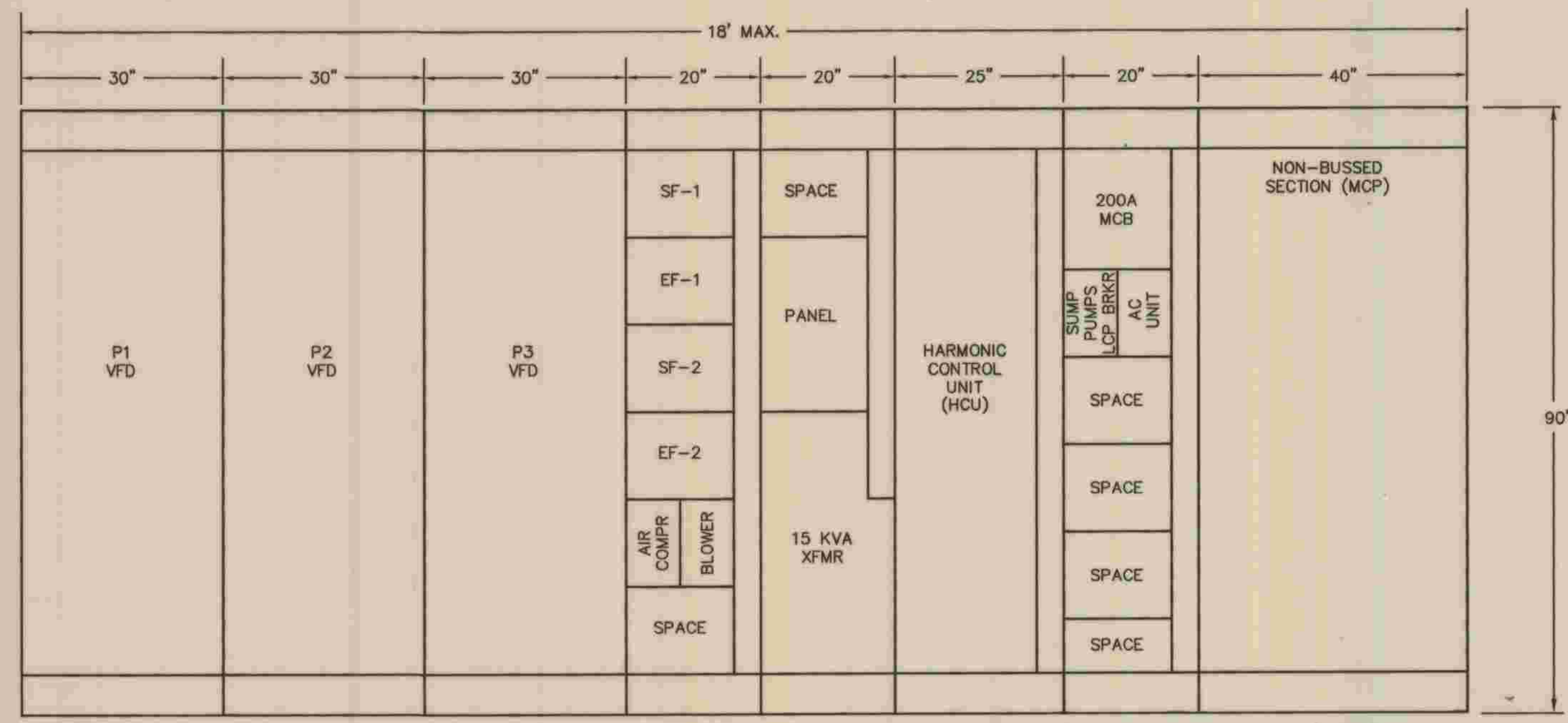
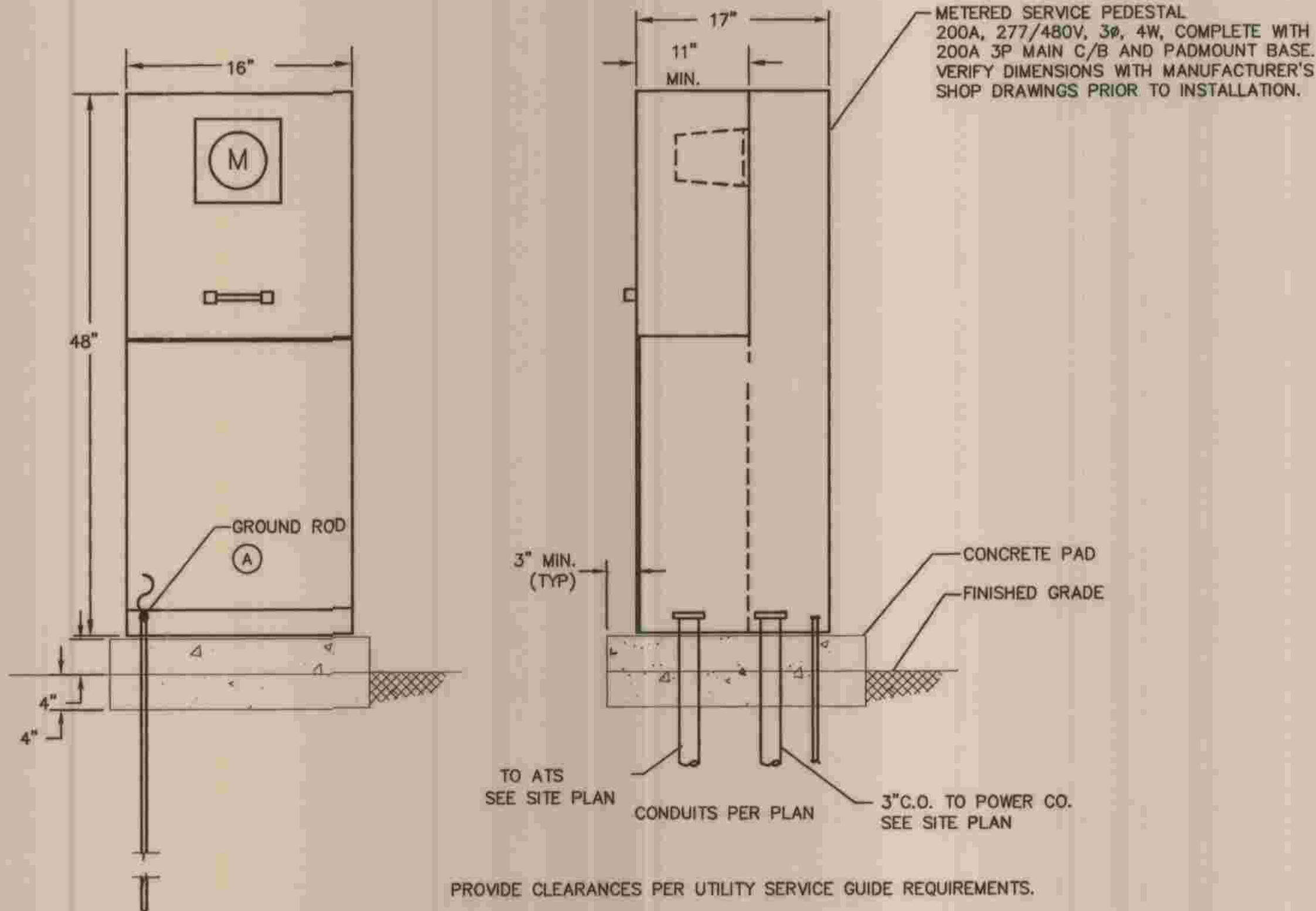
LOS ANGELES COUNTY
 DEPARTMENT OF PUBLIC WORKS
**HANCOCK PARKWAY
 SEWAGE LIFT STATION (TEMPORARY)**
 PARCEL MAP NO. 26363

ELECTRICAL SITE PLAN

E-2
 SHEET
 51
 OF
 61
 SHEETS



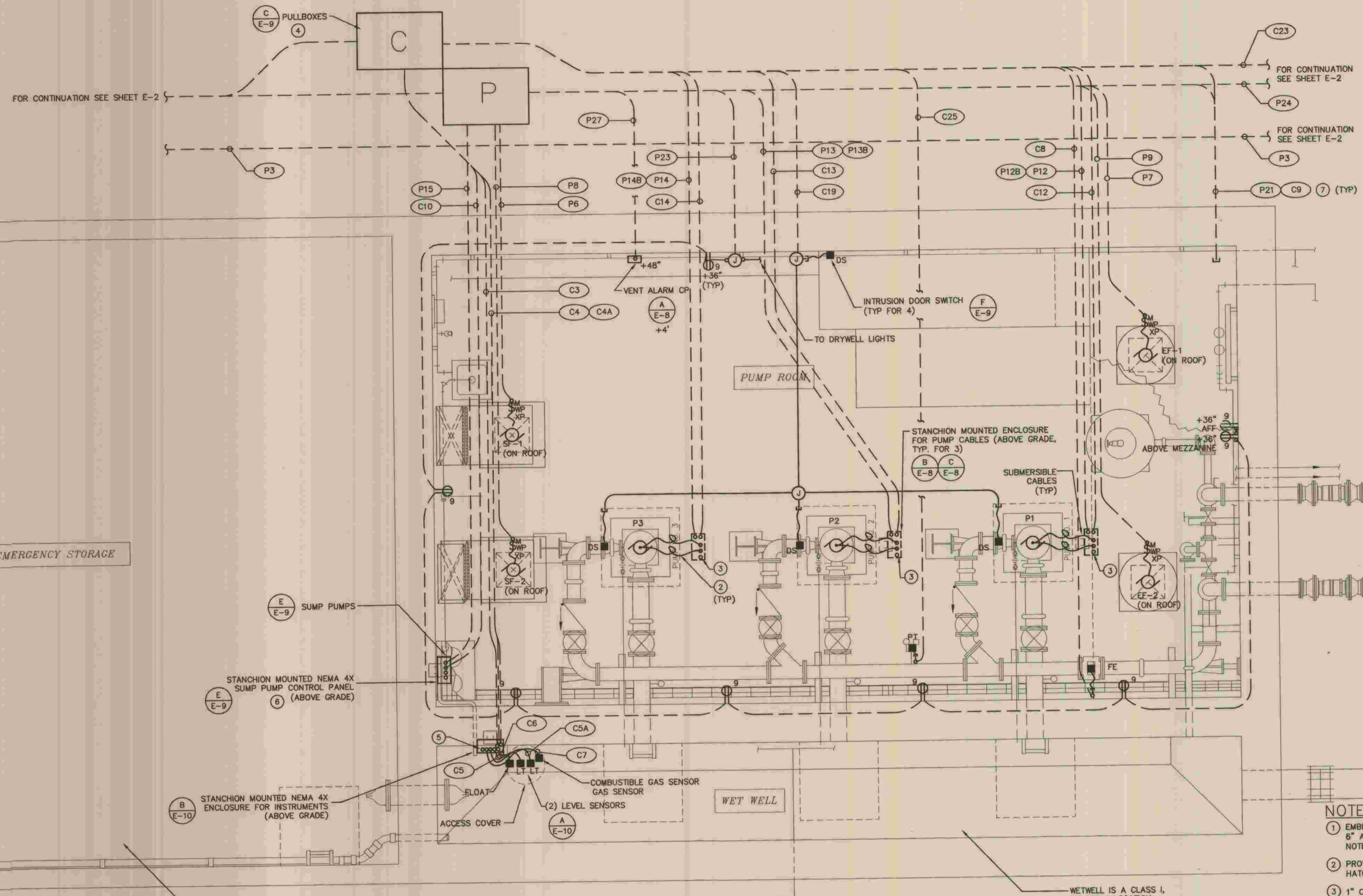
LOAD CALC		
P1 40HP	52A	35KW
P2 40HP (STBY)	-	-
P3 40HP (STBY)	-	-
AIR COMPR 7.5HP	11A	-
BLOWER 3HP	5A	-
AIR COND 7.5HP	14A	7KW
EF-1 1.5HP	3A	3KW
EF-2 1.5HP	3A	3KW
SF-1 2HP	4A	4KW
SF-2 2HP	4A	4KW
SP-1 1HP	2A	2KW
SP-2 1HP	2A	2KW
PANEL 'A'	22A	10KW
25% LARGEST MOTOR	13A	-
MCC	135A	70KW (105A)



① 3/4"x10' GROUND ROD COPPER CLAD STEEL

NOTE: MCC/RTU IS PROVIDED BY PUMP VENDOR (ESSCO)

	PLANS PREPARED BY MPA MORAES/PHAM & ASSOCIATES CONSULTING ELECTRICAL & MECHANICAL ENGINEERS 2131 PALOMAR AIRPORT RD., STE. 120 CARLSBAD, CA. 92011 (760) 431-7177	DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY OPERATIONAL SERVICES DIVISION		REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.	E-3 SHEET
	CHECKED: <i>Michael C. Moran</i> 7/28/09 DATE: 5/20/09	DATE: 5/20/09	DATE: 7/28/09	HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PARCEL MAP NO. 26363	SPEC. NO. _____ OF _____ JOB NO. _____ DRAWING NO. _____



WET WELL/DRY WELL PLAN
3/8" = 1'-0"

NOTES

- EMBED CONDUITS IN ROOF SLAB. SPACE CONDUITS 6" APART (MIN). REFER TO STRUCTURAL PLANS FOR NOTES/DETAILS.
- PROVIDE SST KELLEMS CABLE GRIP FOR EACH CABLE AT HATCH OPENING. PROVIDE EXTRA SLACK (LOOP) FOR CABLE.
- 1" C.O. STUBBED THROUGH CEILING.
- PROVIDE DUCT SEAL ON ALL CONDUITS IN PULLBOXES TO PREVENT WATER FROM ENTERING THE PUMP STATION. MINIMUM SEAL DEPTH SHALL BE THE DIAMETER OF THE CONDUIT. ALL SPLICES SHALL BE SUBMERSIBLE.
- 1" C.O. STUBBED INTO WETWELL.
- SUMP PUMP CONTROL PANEL IS A VENDOR PACKAGED ITEM.
- SEE DETAIL 2/S-1.5 FOR CONDUIT PENETRATION DETAIL (TYP).



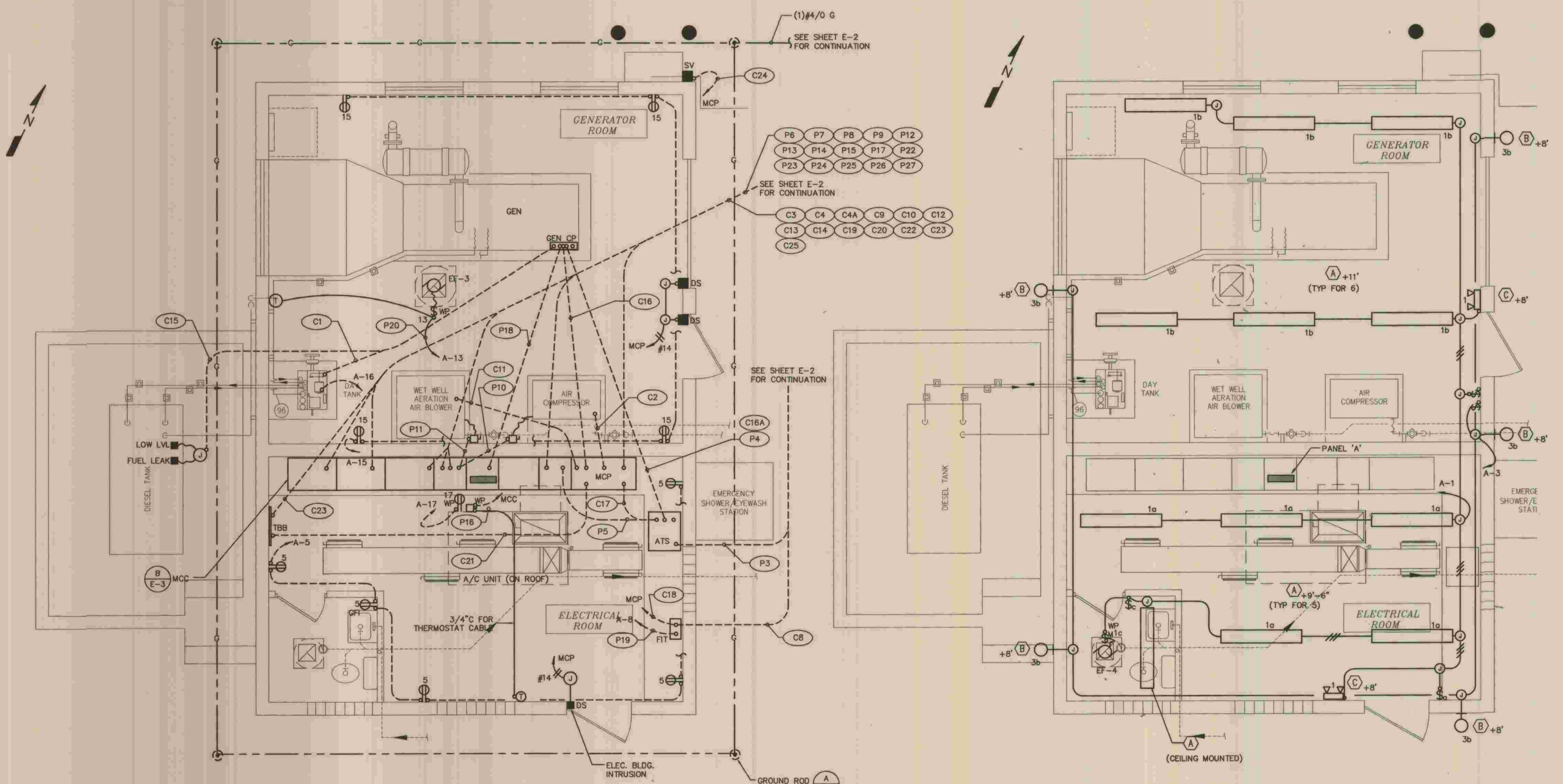
PLANS PREPARED BY
MPA MORAES/PHAM & ASSOCIATES
 CONSULTING ELECTRICAL & MECHANICAL ENGINEERS
 2131 PALOMAR AIRPORT RD., STE. 120 CARLSBAD CA. 92011 (760) 431-7177
 JOSEPH M. MORAES DATE 5/25/09

DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY
 CHECKED BY Michael i. [Signature] DATE 7/25/09
 OPERATIONAL SERVICES DIVISION

NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY

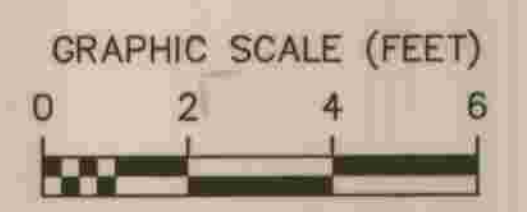
REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS	SPEC. NO.	E-4
HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PARCEL MAP NO. 26363	OF	53
PUMP ROOM POWER AND SIGNAL PLAN	DRAWING NO.	61
		SHEETS



ELECTRICAL BUILDING POWER PLAN
SCALE: 3/8"=1'-0"

ELECTRICAL BUILDING LIGHTING PLAN
SCALE: 3/8"=1'-0"



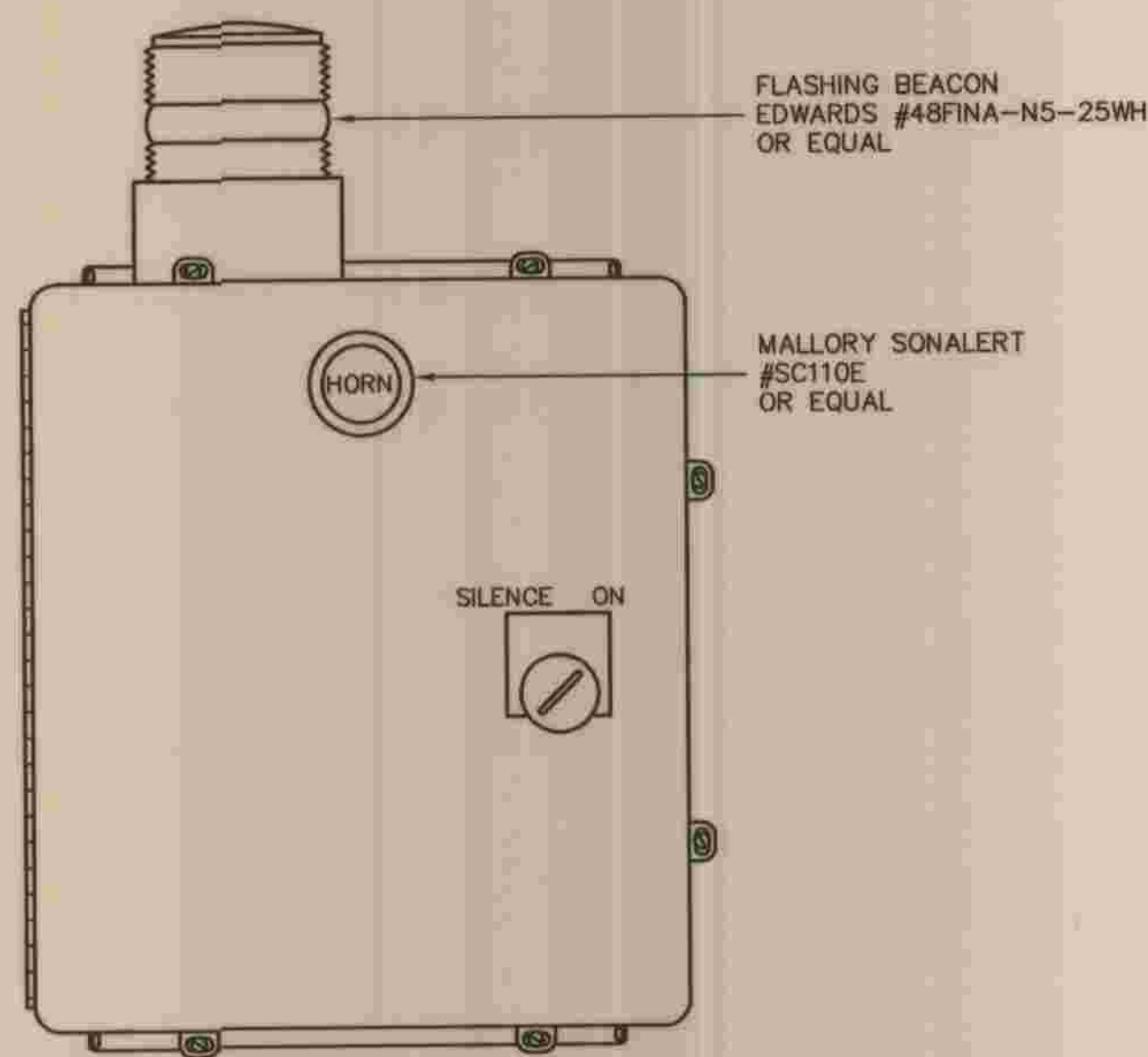
PLANS PREPARED BY
MPA MORAES/PHAM & ASSOCIATES
 CONSULTING ELECTRICAL & MECHANICAL ENGINEERS
 2131 PALOMAR AIRPORT RD., STE. 120
 CARLSBAD CA. 92011 (760) 431-7177
 JOSEPH M. MORAES DATE 5/28/09

DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY
 OPERATIONAL SERVICES DIVISION
 CHECKED Michael C. Con 7/28/09
 DATE

NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY

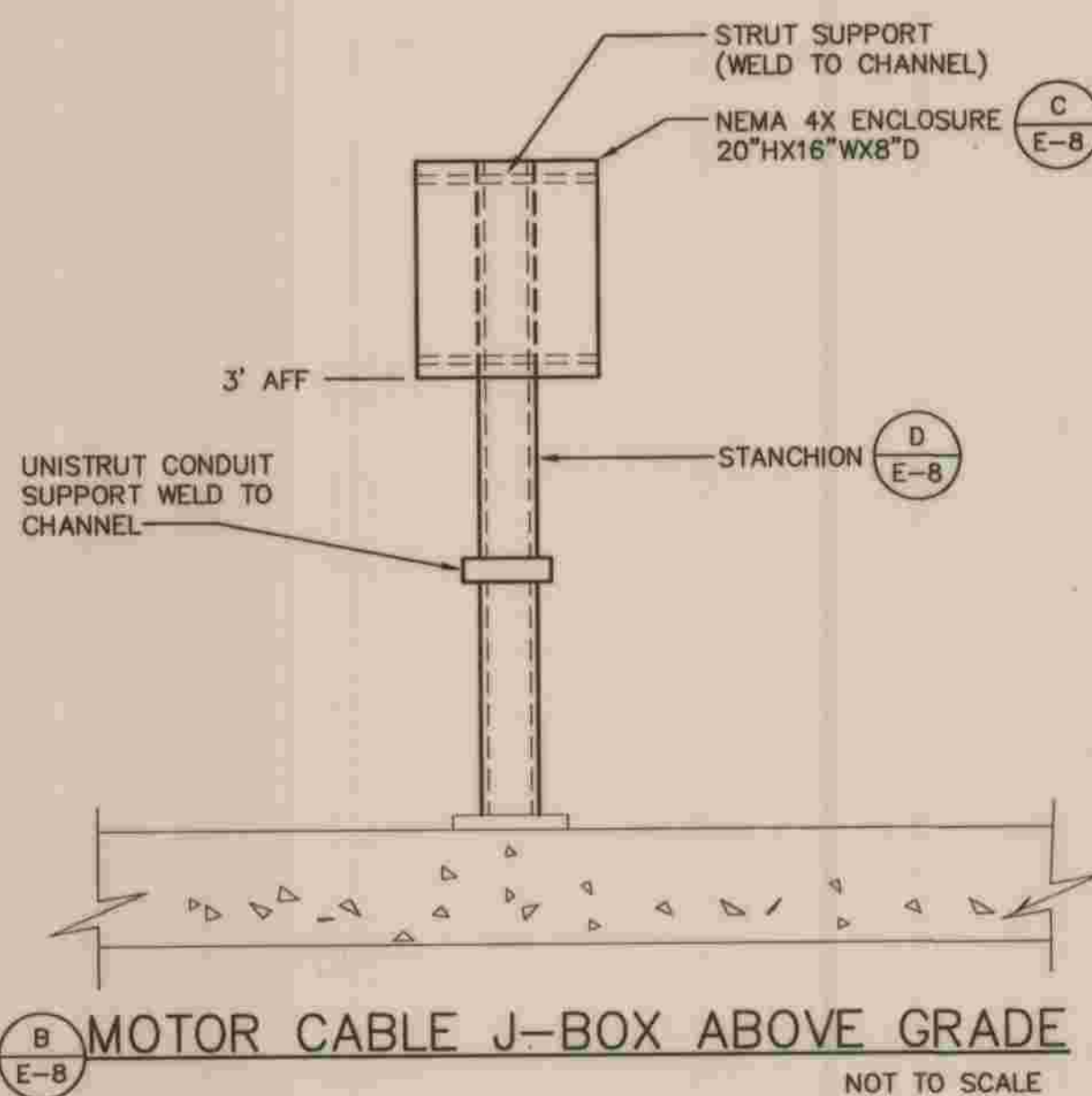
REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.
 LOS ANGELES COUNTY
 DEPARTMENT OF PUBLIC WORKS
 HANCOCK PARKWAY
 SEWAGE LIFT STATION (TEMPORARY)
 PARCEL MAP NO. 26363
 ELECTRICAL BUILDING
 POWER, SIGNAL AND LIGHTING PLANS

E-6	SHEET
55	OF
61	OF
ELECTRICAL BUILDING POWER, SIGNAL AND LIGHTING PLANS	DRAWING NO.
E-6	SHEETS

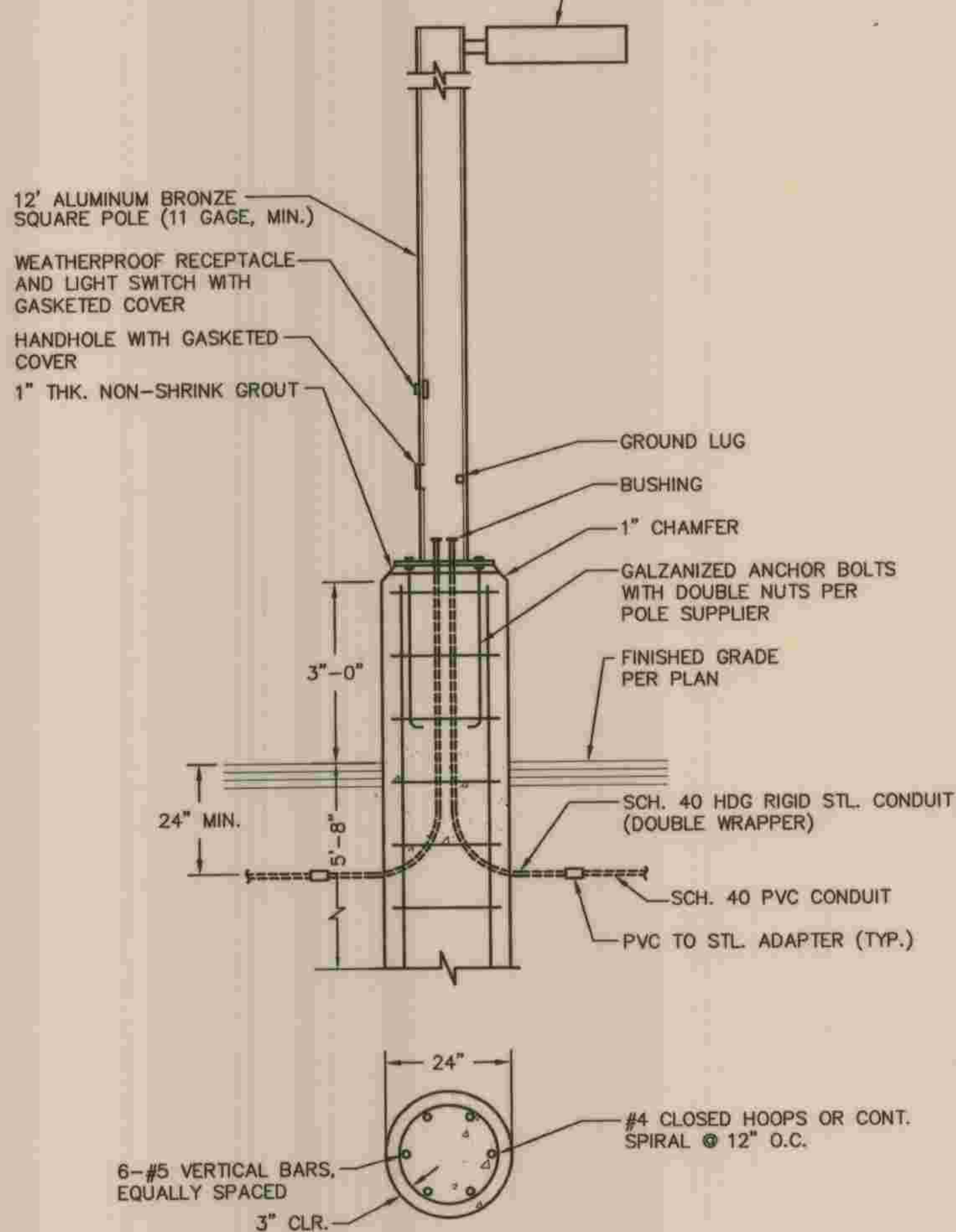


A VENTILATION ALARM CP
E-B NOT TO SCALE

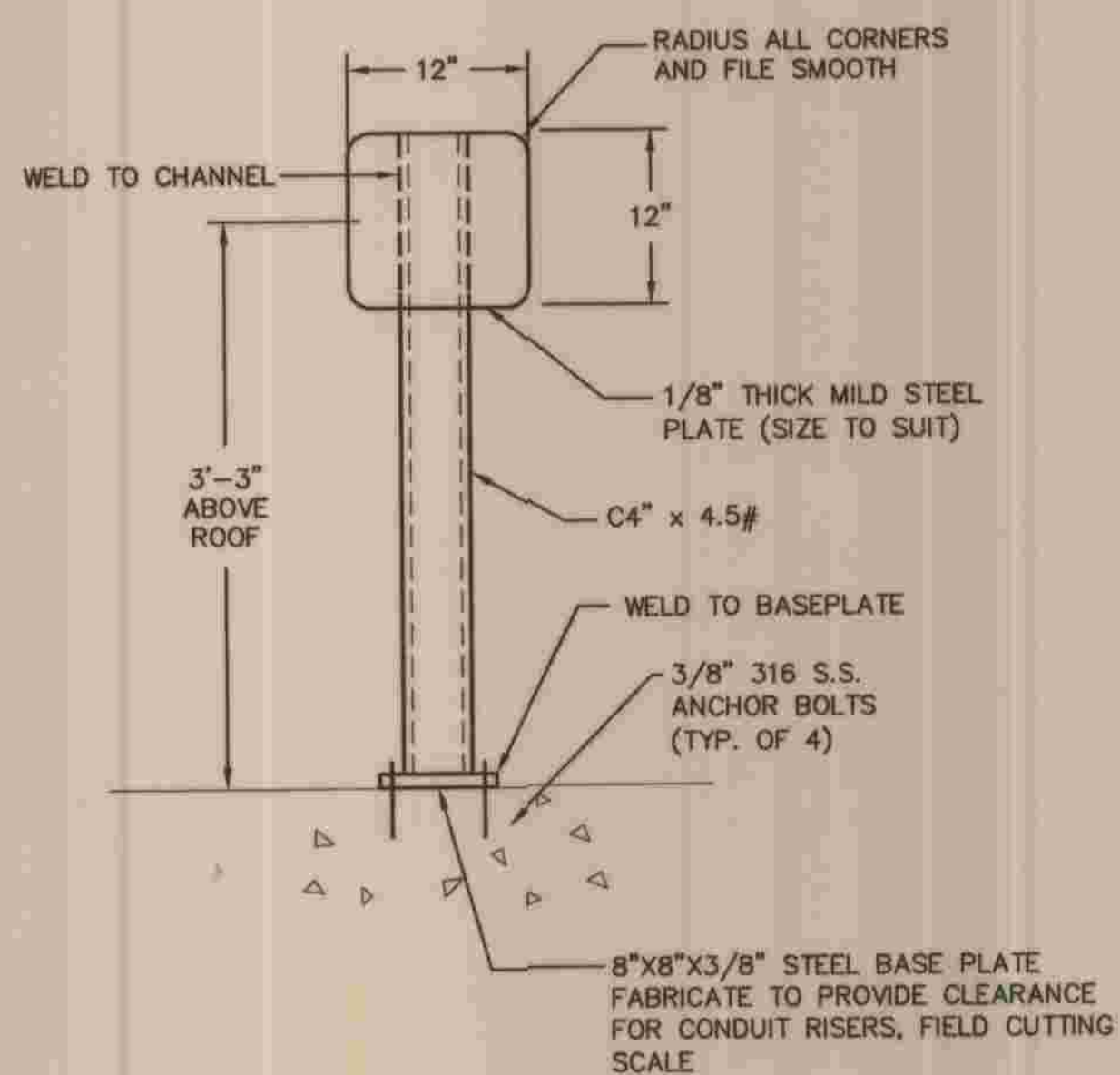
1. ENCLOSURE MATERIAL: NEMA 4X STAINLESS STEEL OR FIBERGLASS



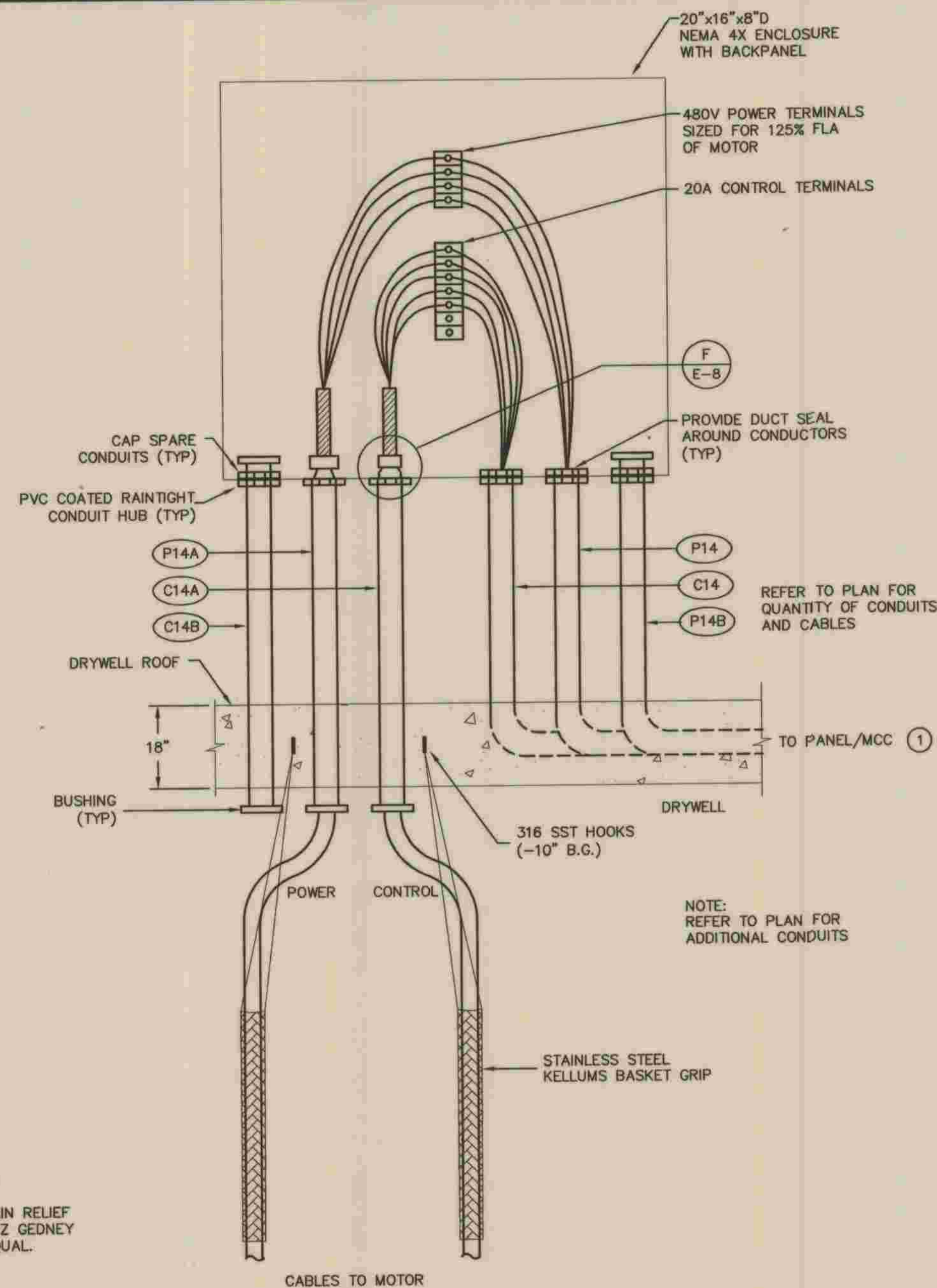
150W HPS FIXTURE, ONE-PIECE FORMED AND WELDED HOUSING, SILICONE GASKETING, FLAT TEMPERED AND IMPACT RESISTANT GLASS LENS, IES TYPE III DISTRIBUTION, COMPLETE WITH LAMP AND ALL MOUNTING HARDWARE FOR POLE MOUNTING. WIRE FOR 120V OPERATION, UL WET LOCATION. SPAULDING # RCSA4S15H3FQDBW1P1, OR APPROVED EQUAL. INCLUDE PHOTO CELL



E LIGHTING POLE FOUNDATION DETAIL
E-B NTS

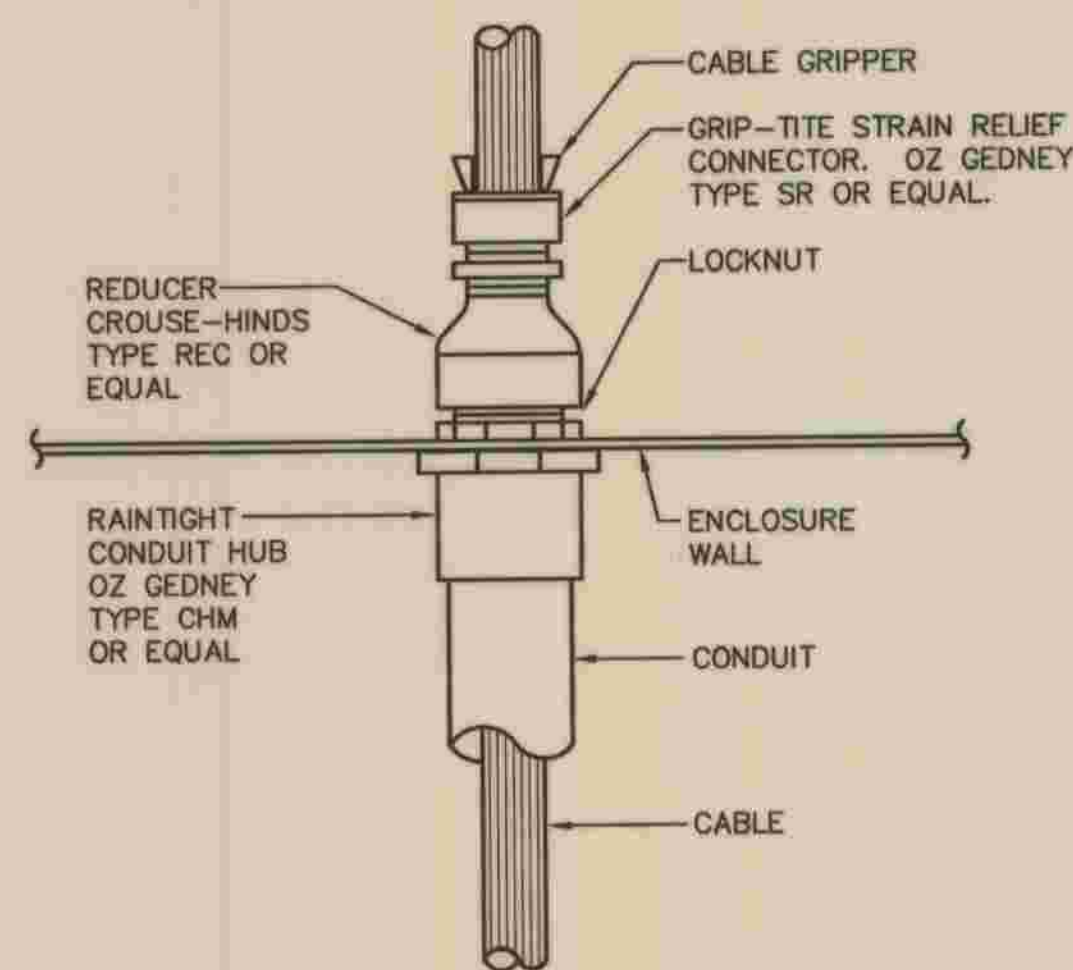


D SUPPORT RACK STANCHION
E-B NOT TO SCALE

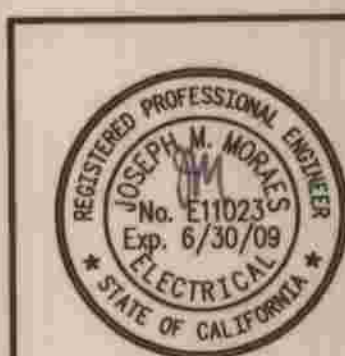


C P3 MOTOR CABLE ENCLOSURE
E-B (TYP FOR 3) NOT TO SCALE

① REFER TO DETAIL 3/S-1.5 FOR CONDUIT IMBEDMENT DETAIL.



F PUMP CORD DETAIL
E-B NTS



PLANS PREPARED BY
MORAES/PHAM & ASSOCIATES
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2131 PALMDALE AIRPORT RD., STE. 120
CARLSBAD CA 92011 (760) 431-7177

JOSEPH M. MORAES DATE 5/28/09

DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY

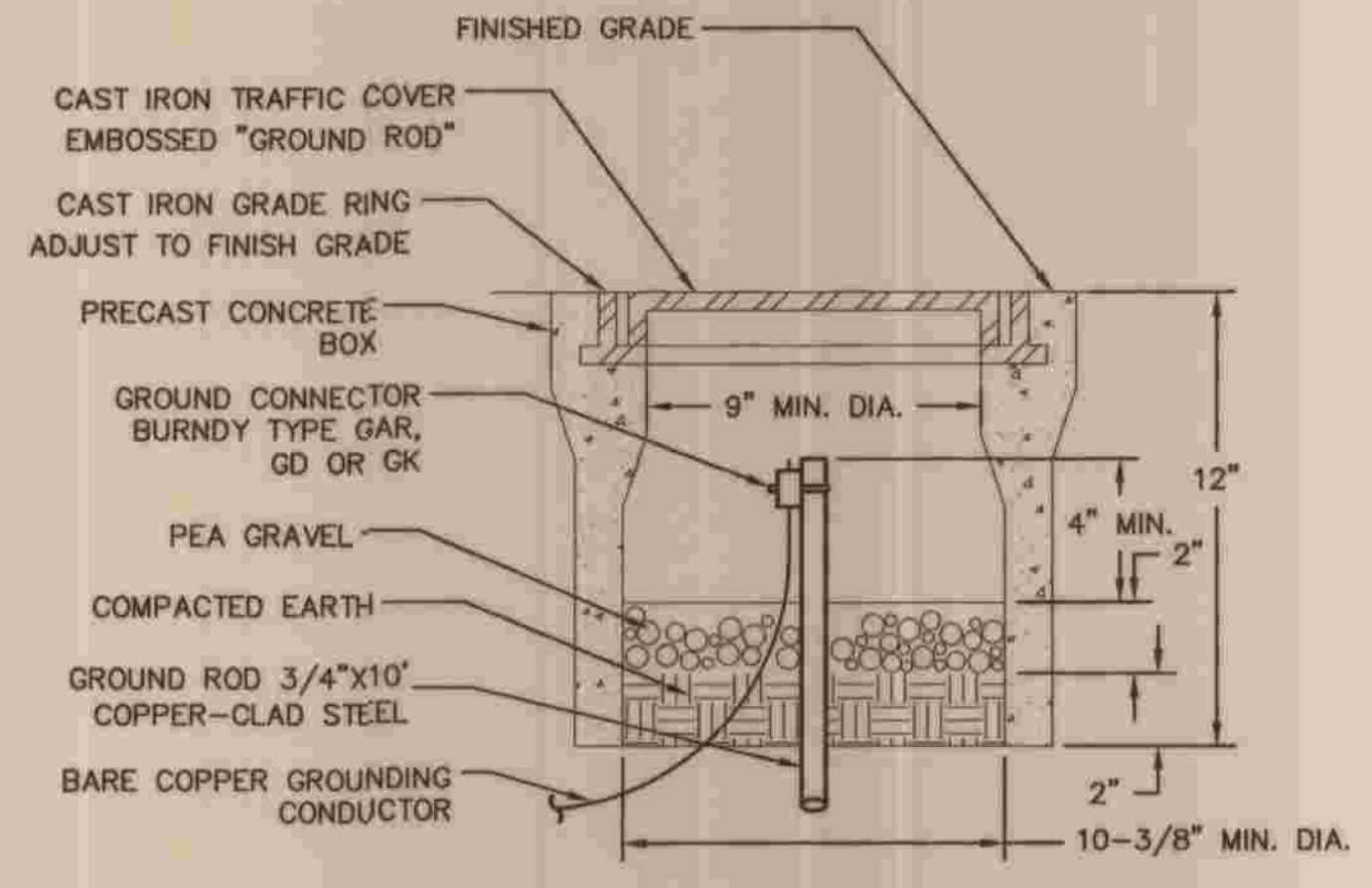
CHECKED *Michael C. Com* 7/28/09
OPERATIONAL SERVICES DIVISION DATE

NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY

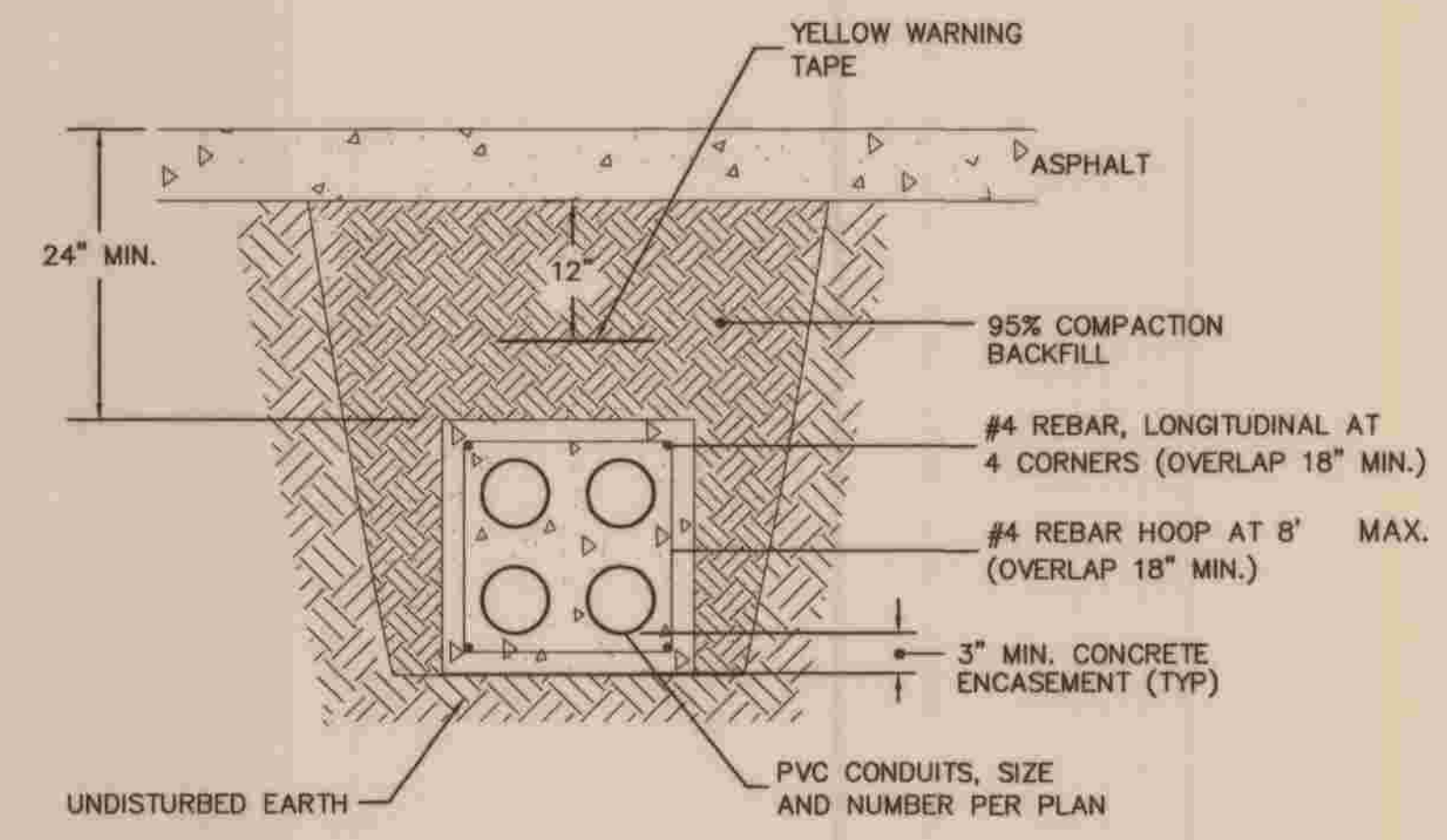
REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS	SPEC. NO.	E-8
HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PARCEL MAP NO. 26363	OF	57
ELECTRICAL DETAILS - 1	OF	61
	DRAWING NO.	SHEETS

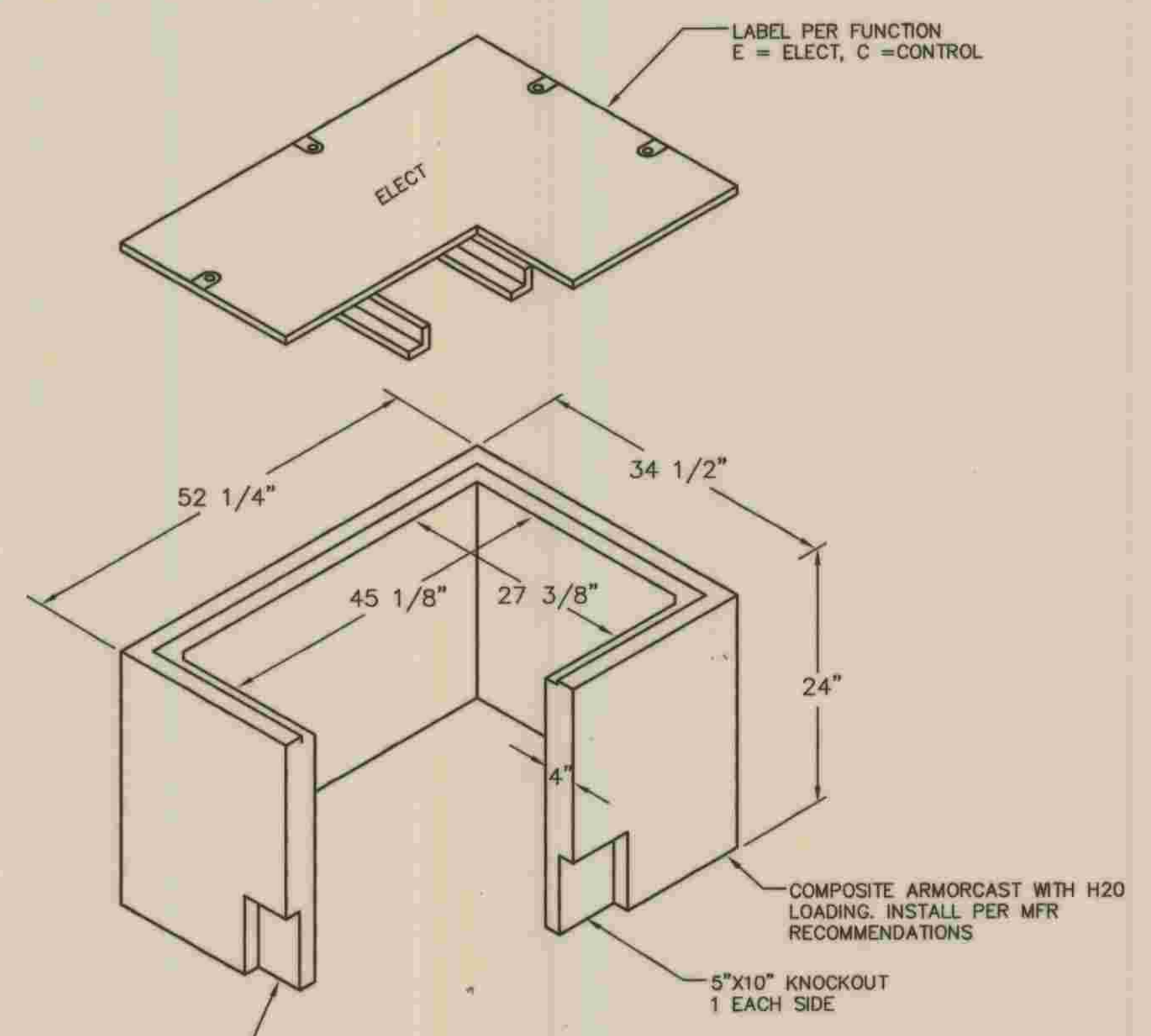
SHEET 57 OF 61



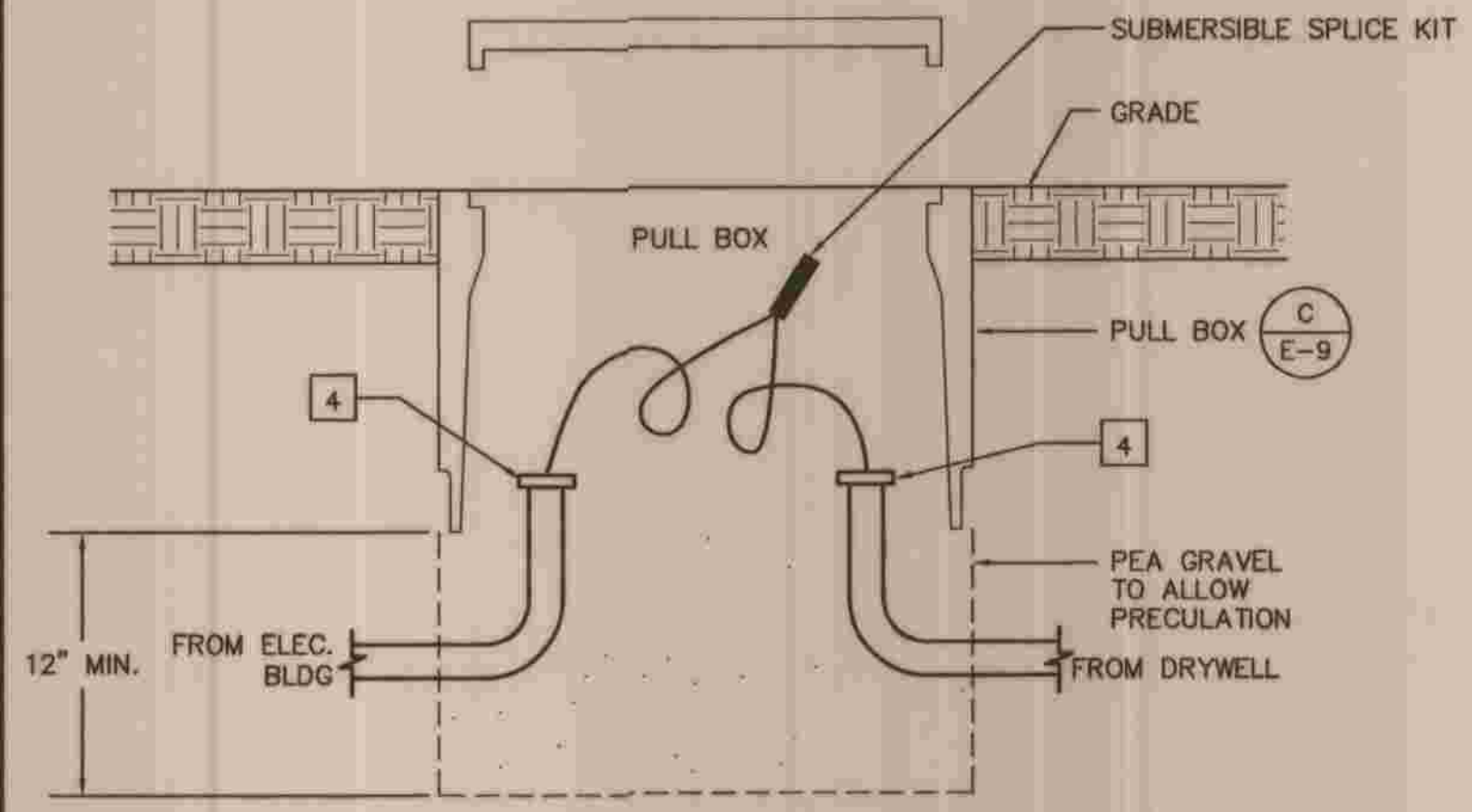
A GROUND ROD AND BOX INSTALLATION
E-9 NOT TO SCALE



B DUCT BANK TYPICAL
E-9 NOT TO SCALE

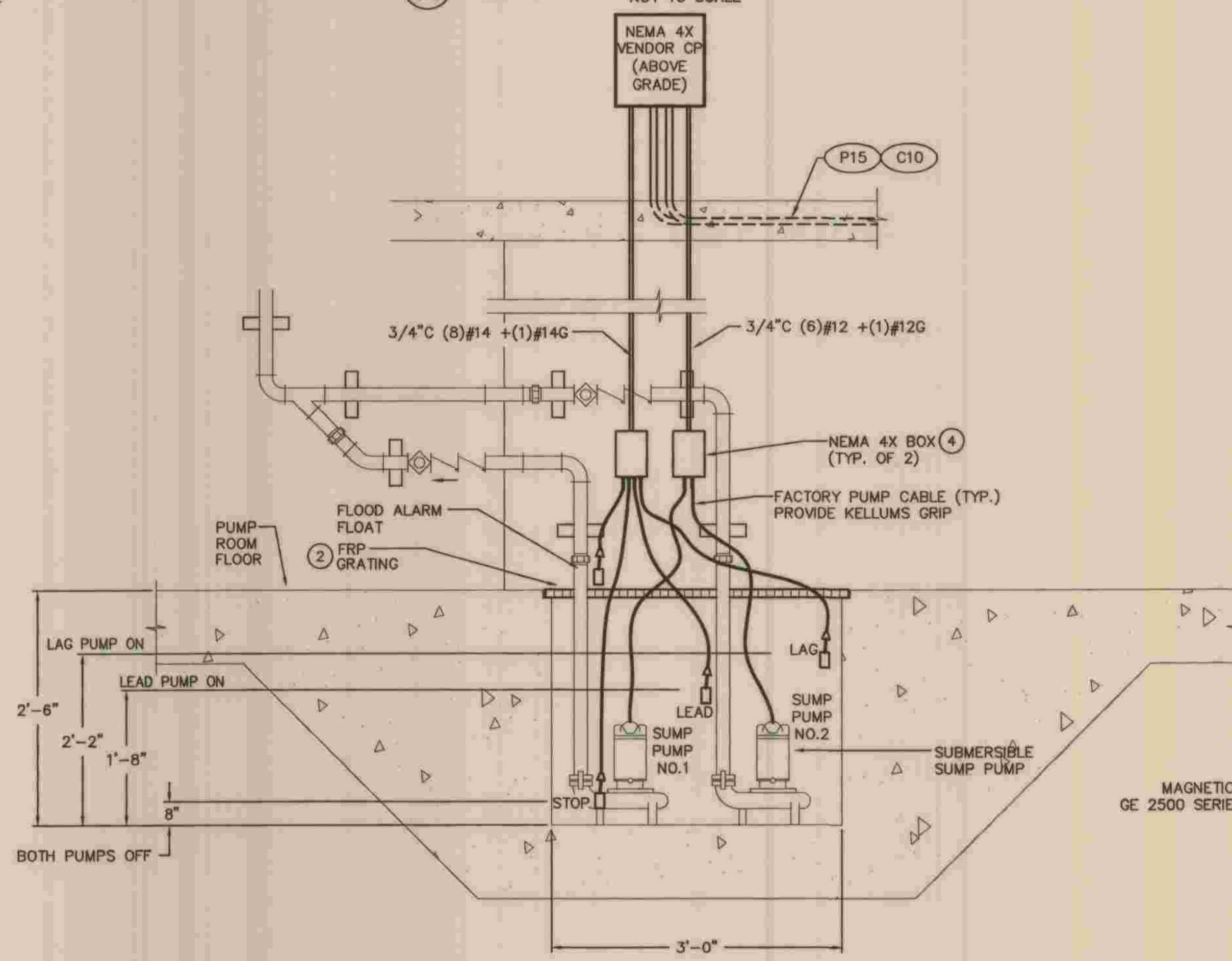


C DETAIL
E-9 NOT TO SCALE
30" x 48" x 24" PULLBOX



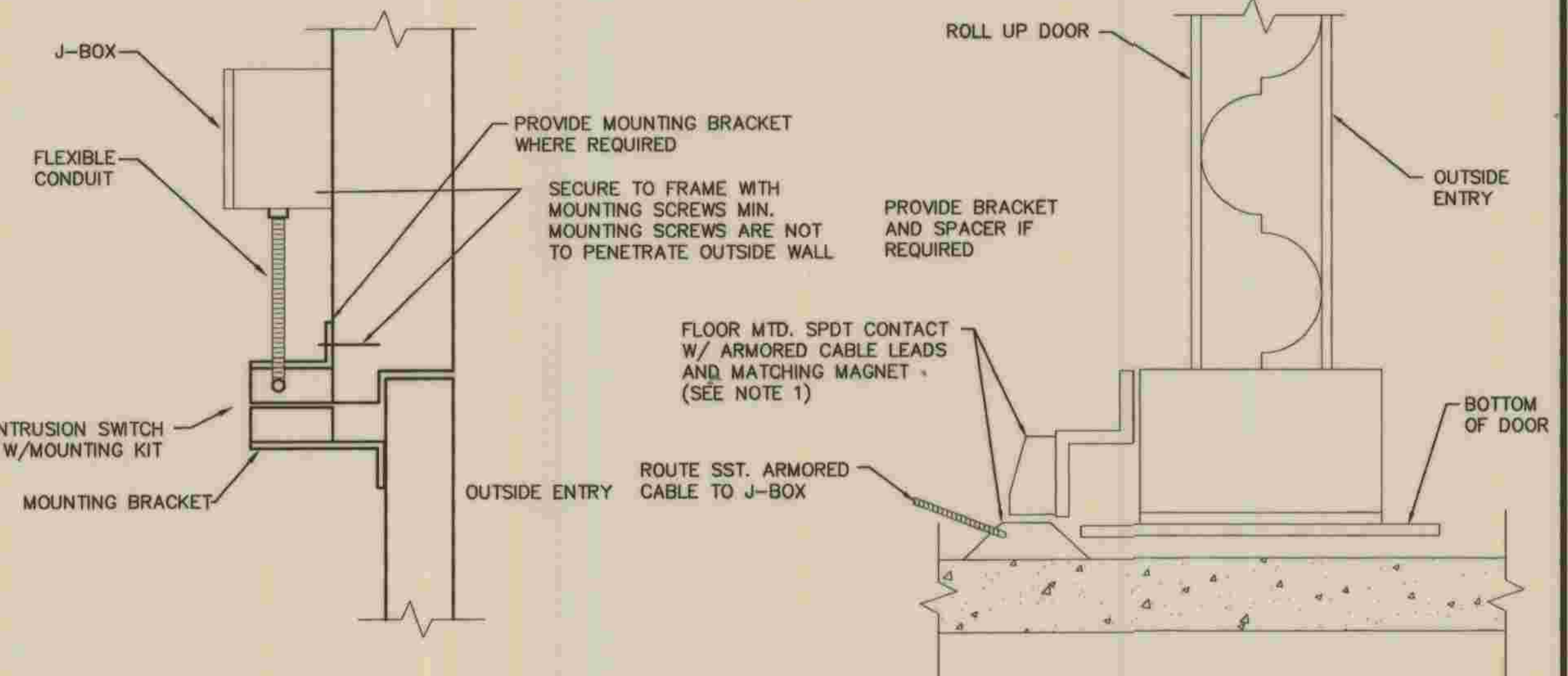
D PULLBOX SECTION
E-9 NOT TO SCALE

- 1 ALL PULLBOXES SHALL BE PRECISELY LOCATED FLUSH WITH FINISHED GRADE.
- 2 CONDUITS ENTERING PULLBOX SHALL BE PERMANENTLY LABELED WITH STAMPED BRASS TAGS INDICATING ORIGIN AND DESTINATION. CONDUITS SHALL TERMINATE WITH MALE ADAPTORS AND INSULATING BUSHINGS. CONDUITS SHALL BE PRECISELY LOCATED. LENGTH ENTERING PULLBOX HOUSING SHALL BE 2" MAXIMUM. BUSHINGS SHALL BE THERMOSETTING PHENOLIC AS MANUFACTURED BY OZ GEDNEY, TYPE A. KNOCKOUTS USED SHALL BE NEATLY FILLED WITH NON-SHRINK GROUT.
- 3 PULLBOX SIZE SHALL BE CONSIDERED ABSOLUTE MINIMUM.
- 4 DUCT SEAL ALL CONDUITS.



E SUMP PUMP DETAIL
E-9 NOT TO SCALE

- 1 LAYOUT SHOWN IS FOR GUIDANCE AND IDENTIFICATION PURPOSES ONLY. ALL EQUIPMENT SHALL BE LOCATED TO BEST SUIT FIELD CONDITIONS AND OPERATIONAL REQUIREMENTS.
- 2 FRP GRATING SHALL BE NEATLY MODIFIED TO ACCEPT PUMP AND FLOAT CABLES. ALL CABLES SHALL BE SUITABLY STRAIN RELIEVED.
- 3 CONTRACTOR SHALL FIELD COORDINATE ACTUAL LEVEL SETPOINTS WITH THE OWNER. FLOAT SWITCH WEIGHTS SHALL BE LOCATED 2" FROM FLOAT BODY. ALL FLOAT SWITCHES SHALL BE LOCATED FREE FROM OBSTRUCTIONS. CONTRACTOR SHALL NEATLY HARNESS CABLES AS REQUIRED. CABLE TIES SHALL BE SUITABLE FOR CORROSIVE ENVIRONMENTS AS MANUFACTURED BY THOMAS & BETTS.
- 4 SPLICES SHALL BE SUBMERSIBLE.

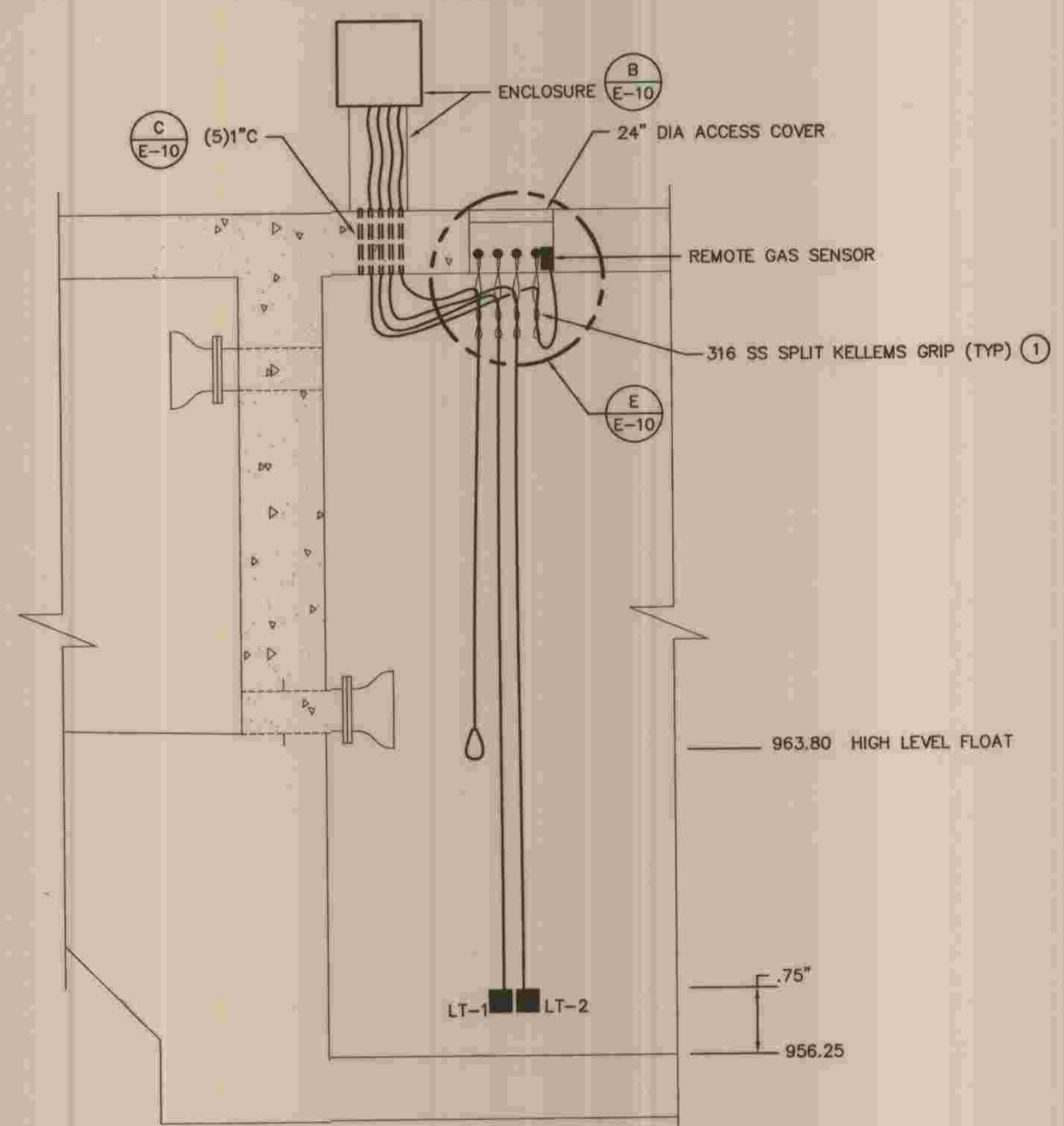


F DOOR ENTRY SWITCHES
E-9 NOT TO SCALE

ROLL UP DOOR
NOTE 1:
SWITCH ACTIVATES WHEN DOOR OPENS. PROVIDE PROPER GAP PER MANUFACTURER'S SPECIFICATIONS.

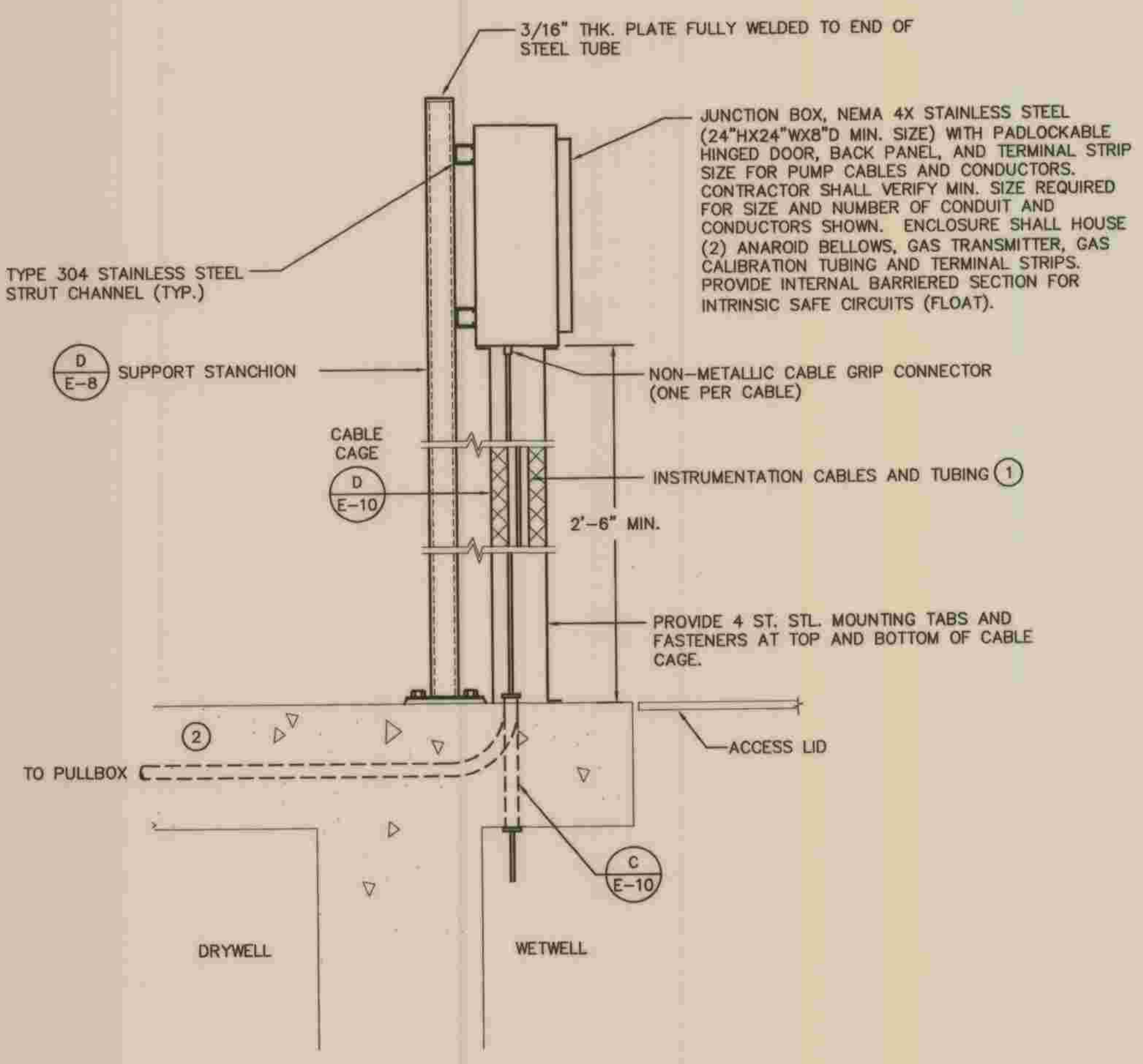
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	PLANS PREPARED BY MORAES/PHAM & ASSOCIATES CONSULTING ELECTRICAL & MECHANICAL ENGINEERS 2131 PALOMAR AIRPORT RD., STE. 120 CARLSBAD CA. 92011 (760) 431-7177	DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY OPERATIONAL SERVICES DIVISION CHECKED: <i>Michael T. Tran</i> 7/28/09 DATE:	<table border="1"> <tr><td>NO.</td><td>DATE</td><td>DRAWN BY</td><td>CHECK BY</td><td>REVISION</td><td>APPR'D BY</td><td>APPR'D BY</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY								LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PARCEL MAP NO. 25363	SPEC. NO. OF JOB NO. DRAWING NO.	E-9 SHEET 58 OF 61 SHEETS
	NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY													
	JOSEPH M. MORAES DATE: 5/28/09	DATE:	REVISION	ELECTRICAL DETAILS - 2	DRAWING NO.	SHEETS														
OPERATIONAL SERVICES DIVISION	DATE:	REVISION	ELECTRICAL DETAILS - 2	DRAWING NO.	SHEETS															
JOSEPH M. MORAES DATE: 5/28/09	DATE:	REVISION	ELECTRICAL DETAILS - 2	DRAWING NO.	SHEETS															



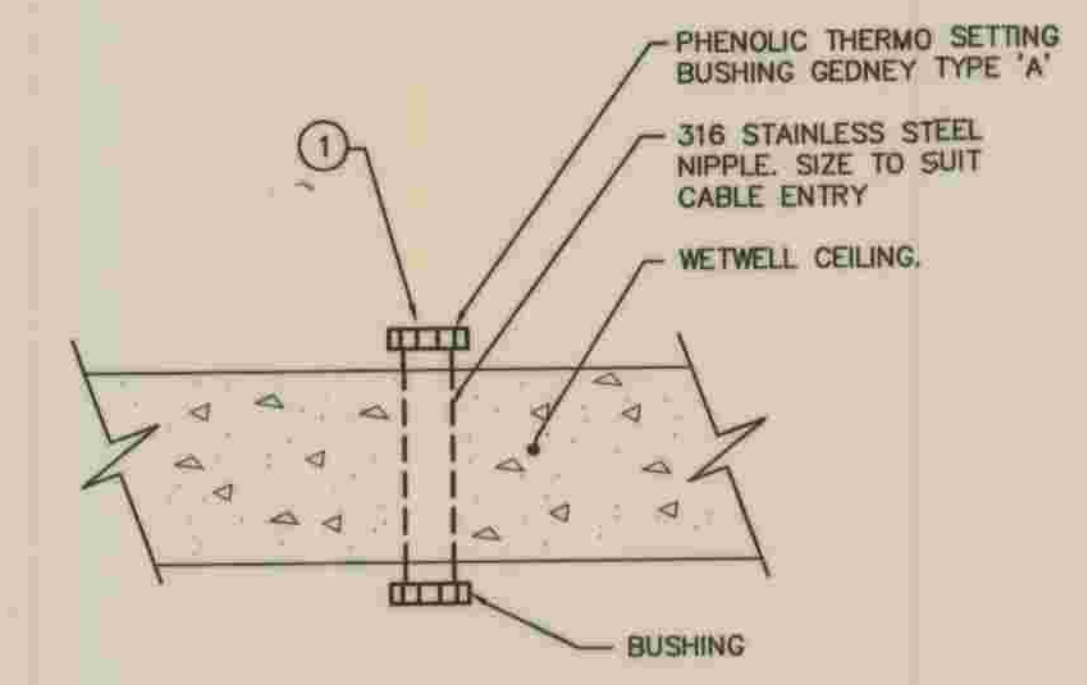
A WETWELL SENSOR ELEVATION
 3/8" = 1'-0"

- ① LOCATE GRIP SUPPORT HOOK NEAR EDGE OF ACCESS OPENING TO ALLOW FOR SENSOR RETRIEVAL FROM GRADE.



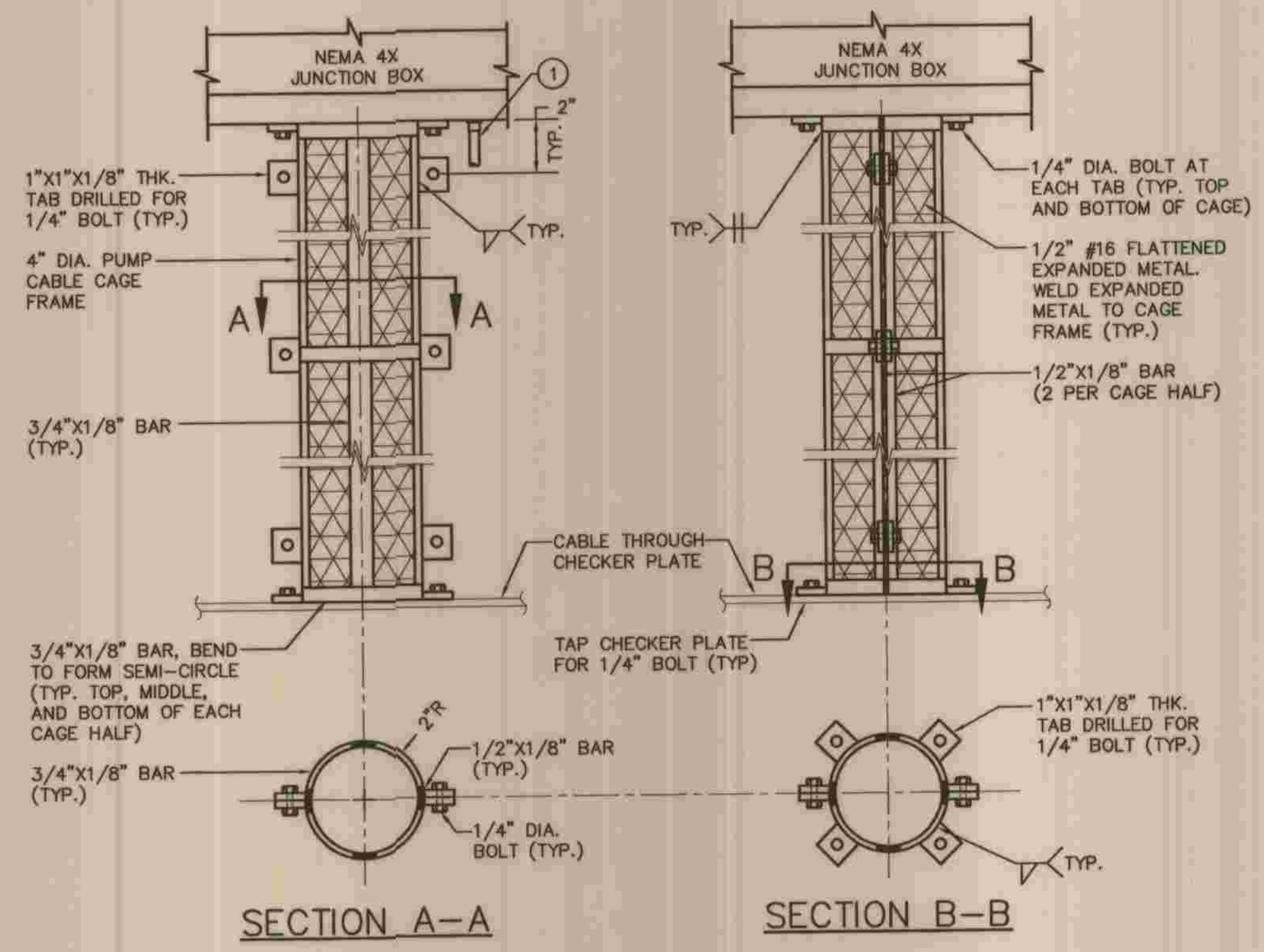
B PUMP CABLE ENTRY DETAIL
 NOT TO SCALE

- ② LEVEL TRANSMITTER CABLES, (1) FLOAT CABLE, (1) GAS DETECTOR CABLE, (1) TYGON TUBING.
- ② ROUTE HOMERUN CONDUITS OUTSIDE CAGE. LOCATE CONDUITS SO THEY DO NOT INTERFERE WITH CAGE REMOVAL.



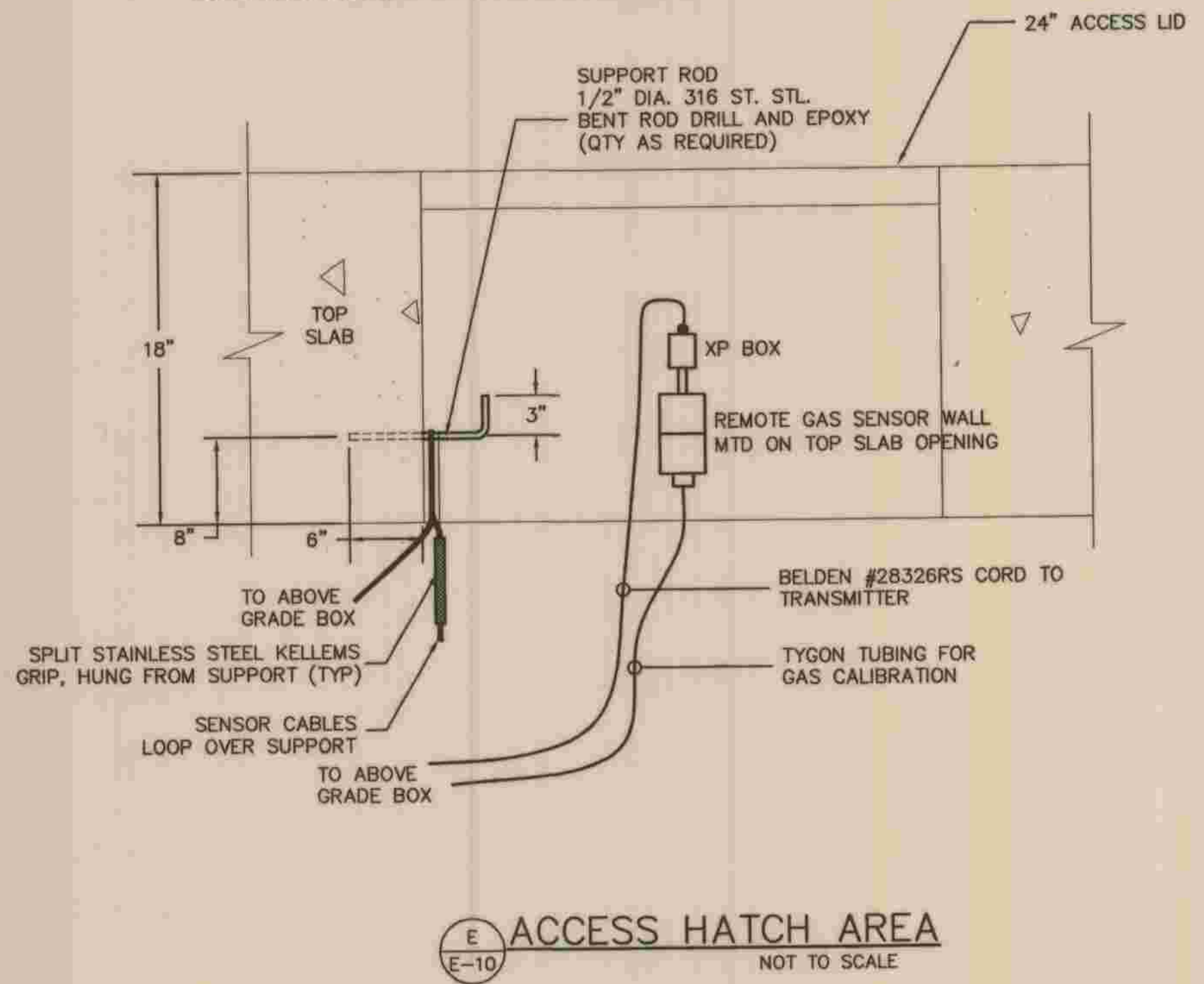
C WETWELL CABLE ENTRY DETAIL
 NOT TO SCALE

- ① APPLY DUCT SEAL AFTER CABLE INSTALLATION, 1" MINIMUM DEPTH.



NOTE: ALL MATERIALS SHALL BE 316 STAINLESS STEEL.

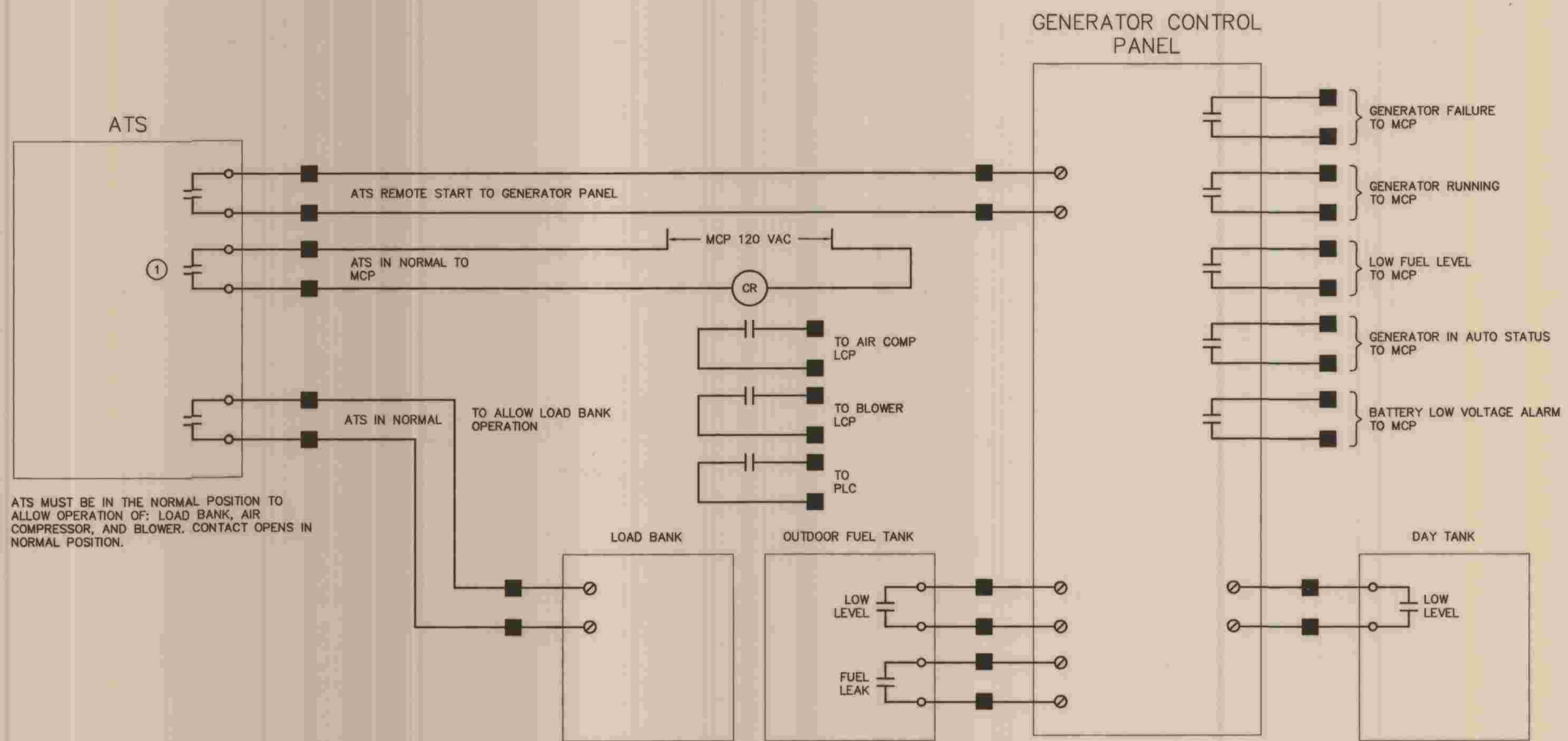
D PUMP CABLE CAGE DETAIL
 ① HOMERUN CONDUITS.



E ACCESS HATCH AREA
 NOT TO SCALE

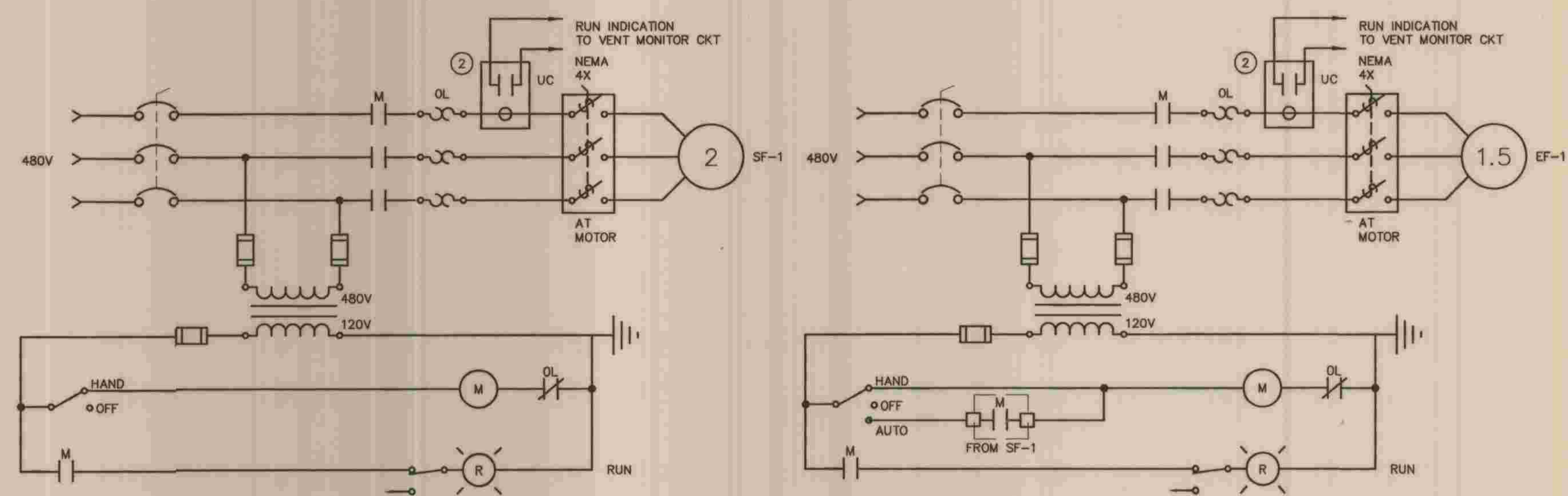
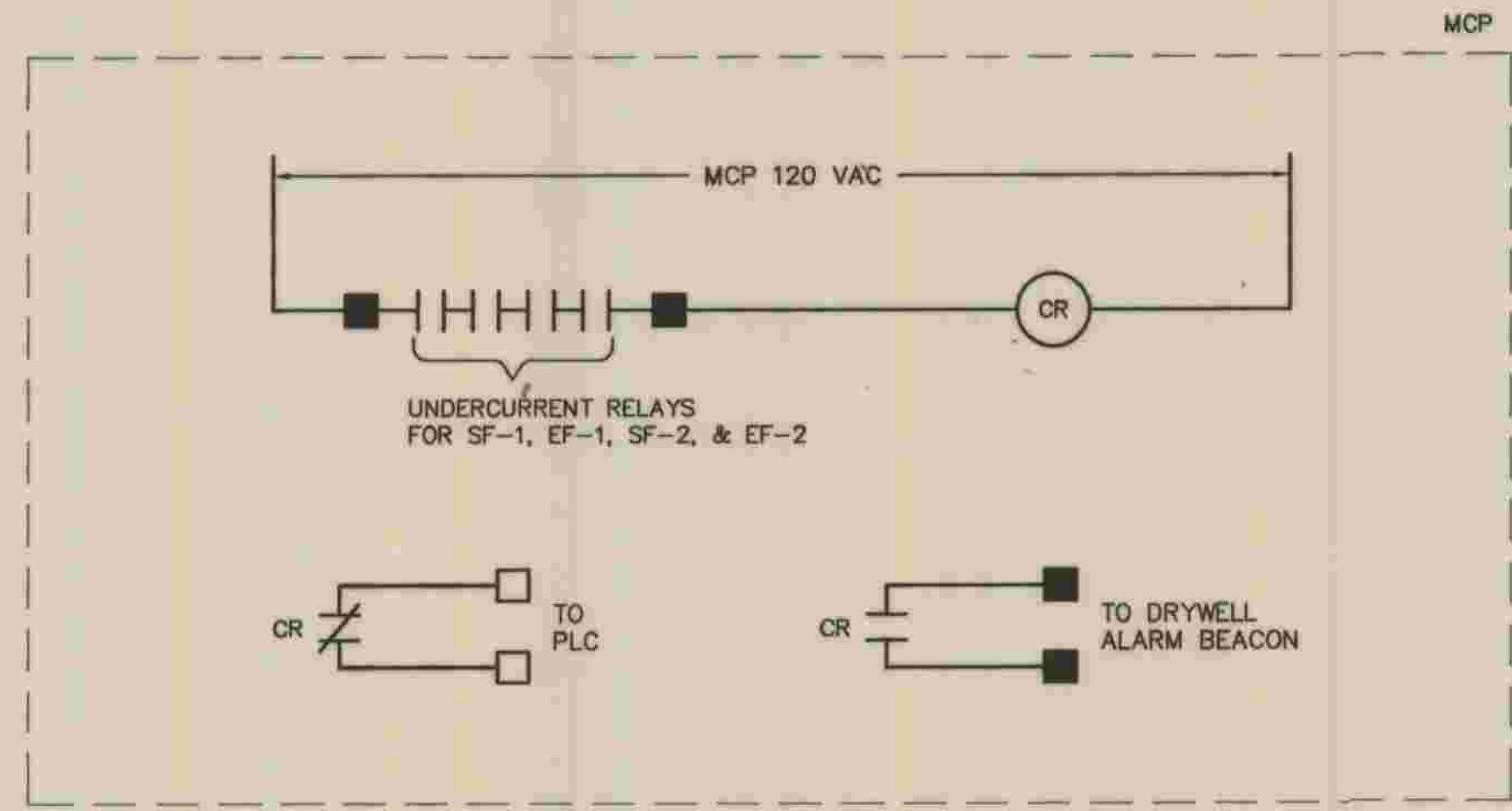
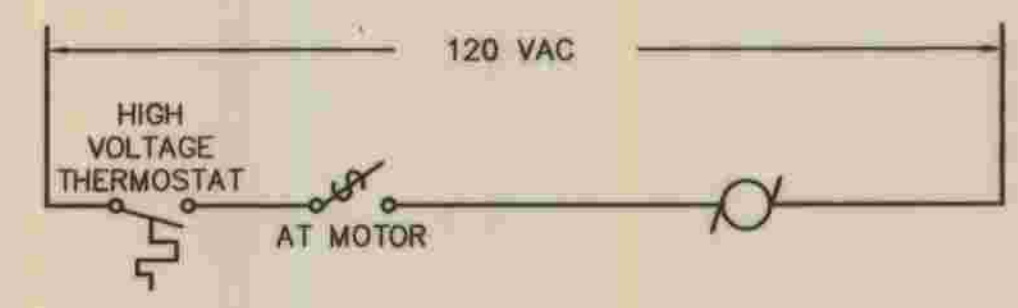
<p>REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.</p>		E-10
<p>LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS</p>		SHEET
<p>HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PARCEL MAP NO. 26363</p>		59
<p>ELECTRICAL DETAILS - 3</p>		OF
<p>OPERATIONAL SERVICES DIVISION</p>		61
<p>DRAWING NO.</p>		SHEETS

<p>PLANS PREPARED BY MPA MORAES/PHAM & ASSOCIATES CONSULTING ELECTRICAL & MECHANICAL ENGINEERS 2131 PALMARB AIRPORT RD., STE. 120 CARLSBAD CA 92001 (760) 431-7177</p>	<p>DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY</p> <p>Michael T. Tran 7/28/09</p> <p>CHECKED BY: [Signature] DATE: 5/28/09</p>
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① ATS MUST BE IN THE NORMAL POSITION TO ALLOW OPERATION OF LOAD BANK, AIR COMPRESSOR, AND BLOWER. CONTACT OPENS IN NORMAL POSITION.

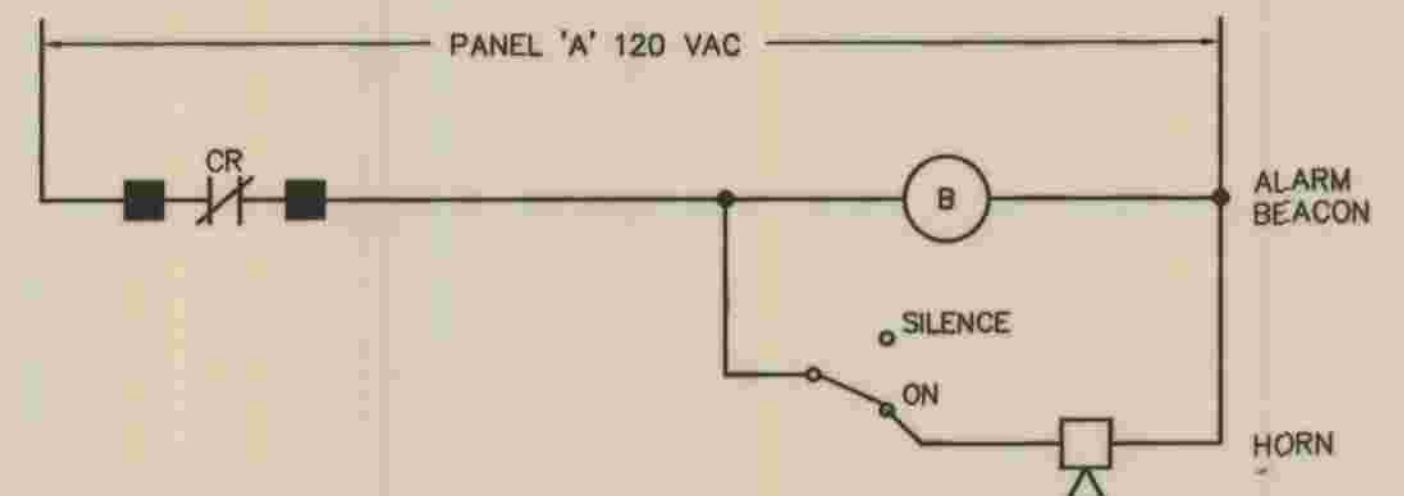
GENERATOR SIGNAL BLOCK DIAGRAM



DRYWELL SUPPLY & EXHAUST FANS (SF-1 AND EF-1)

SIMILAR FOR SF-2 & EF-2

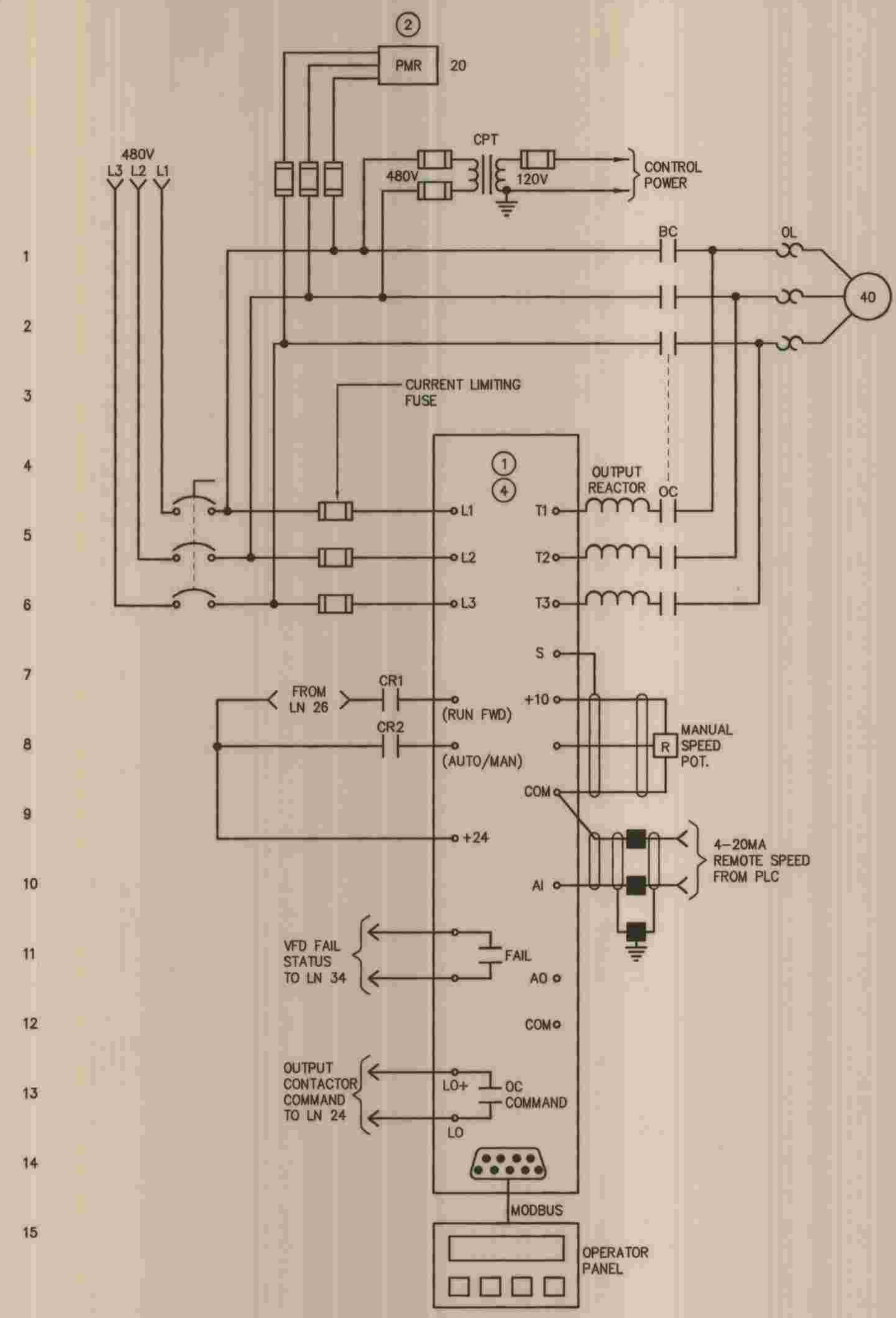
② VERIS INDUSTRIES H609 UNDERCURRENT RELAY OR EQUAL. CONTACTS OPEN ON UNDERCURRENT.



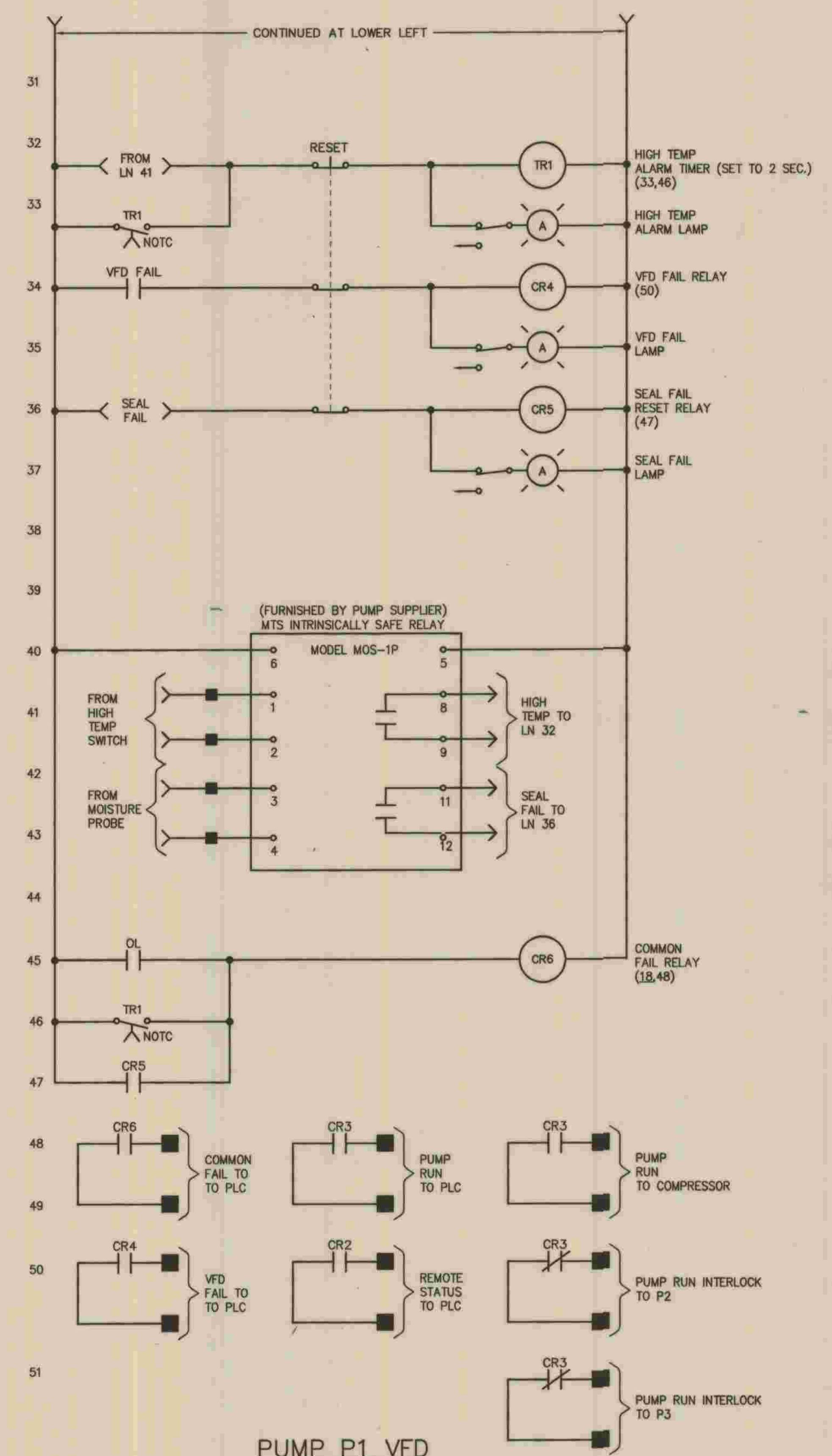
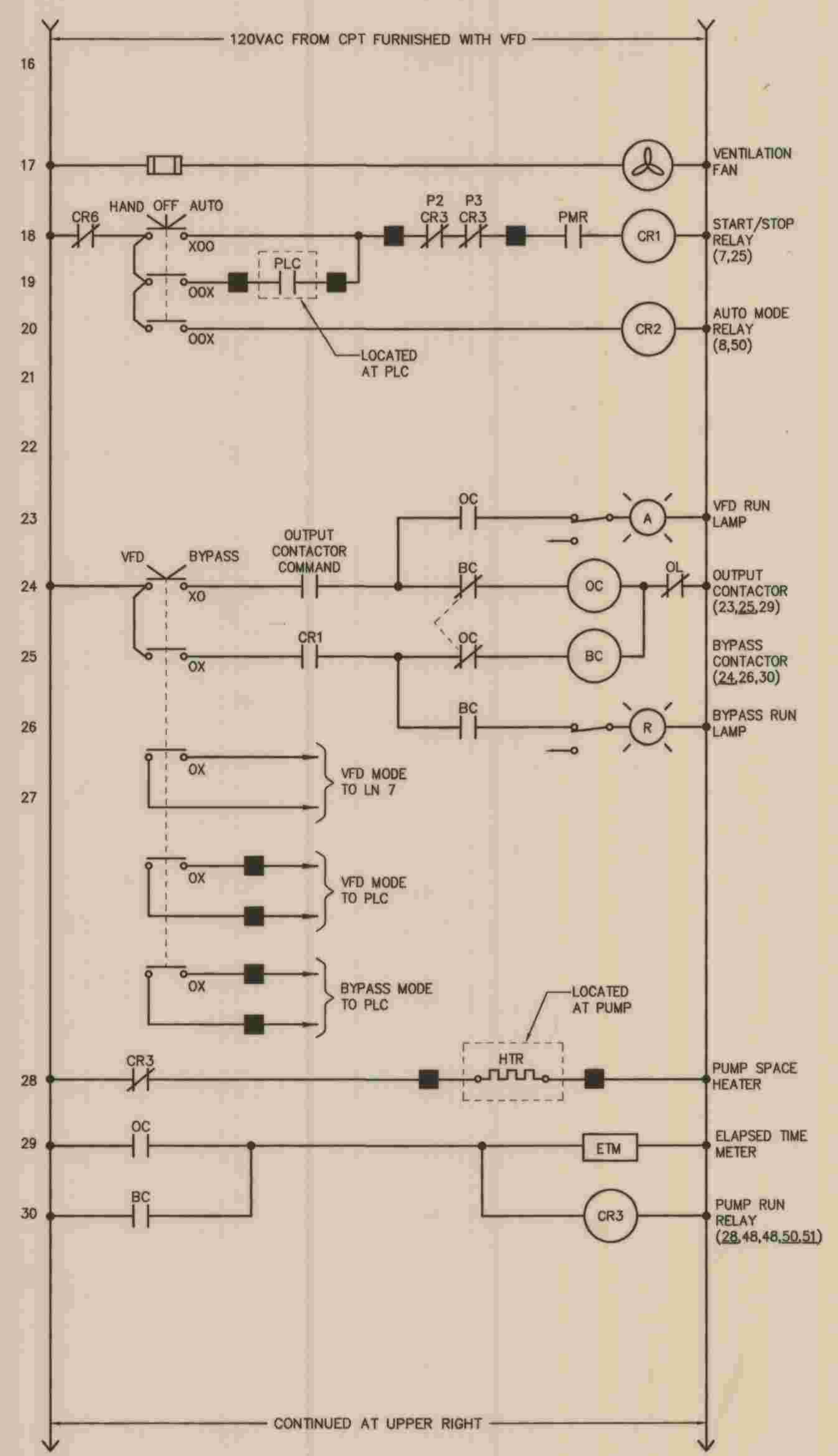
VENT MONITOR CIRCUIT

REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.

	PLANS PREPARED BY MPA MORAES/PHAM & ASSOCIATES CONSULTING ELECTRICAL & MECHANICAL ENGINEERS <small>2131 PALOMAR AIRPORT RD., STE. 120 CARLSBAD, CA. 92011 (760) 431-7177</small>	DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY OPERATIONAL SERVICES DIVISION	NO. _____ DATE _____ DRAWN BY _____ CHECK BY _____ REVISION _____ APPR'D BY _____ APPR'D BY _____	LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) <small>PARCEL MAP NO. 25363</small>	SPEC. NO. _____ OF _____ JOB NO. _____ DRAWING NO. _____	E-11 SHEET 60 OF 61 SHEETS
	JOSEPH M. MORAES DATE 5/20/09	CHECKED <i>Michael C. Tran</i> 7/29/09 DATE	CONTROLS - 1			



- NOTES**
1. CONFIGURE THE DRIVE TO RESTART AUTOMATICALLY ON INSTANTANEOUS POWER FAIL.
 2. POWER MONITOR RELAY PROTECTS MOTOR FROM PHASE LOSS, UNBALANCE, AND REVERSAL (SELF RESETTING).
 3. SCHEMATIC SHOWS LOGIC ONLY. PROVIDE SLAVE RELAYS AS REQUIRED TO OBTAIN CONTACTS INDICATED.
 4. 3% LINE REACTOR IS INTEGRAL TO CH SVX9000 VFD.



PUMP P1 VFD
(ALL ITEMS LOCATED AT VFD PANEL UNLESS OTHERWISE NOTED)
(SIMILAR FOR P1, P2 AND P3)

REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.

	PLANS PREPARED BY	DEPARTMENT OF PUBLIC WORKS, LOS ANGELES COUNTY	<table border="1"> <tr><td>NO.</td><td>DATE</td><td>DRAWN BY</td><td>CHECK BY</td><td>REVISION</td><td>APPR'D BY</td><td>APPR'D BY</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	NO.	DATE	DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY								LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PARCEL MAP NO. 26363 CONTROLS 2	SPEC. NO. OF JOB NO. DRAWING NO.	E-12 SHEET 61 OF 61 SHEETS
	NO.	DATE		DRAWN BY	CHECK BY	REVISION	APPR'D BY	APPR'D BY												
	MPA MORAES/PHAM & ASSOCIATES CONSULTING ELECTRICAL & MECHANICAL ENGINEERS 2131 PALOMAR AIRPORT RD., STE. 120 CARLSBAD, CA. 92011 (760) 431-7177	CHECKED <i>Michael R. [Signature]</i> 7/29/09 OPERATIONAL SERVICES DIVISION DATE		HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PARCEL MAP NO. 26363 CONTROLS 2	SPEC. NO. OF JOB NO. DRAWING NO.	E-12 SHEET 61 OF 61 SHEETS														
JOSEPH M. MORAES DATE 5/20/09	Michael R. [Signature] 7/29/09 OPERATIONAL SERVICES DIVISION DATE	HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PARCEL MAP NO. 26363 CONTROLS 2	SPEC. NO. OF JOB NO. DRAWING NO.	E-12 SHEET 61 OF 61 SHEETS																
JOSEPH M. MORAES DATE 5/20/09	Michael R. [Signature] 7/29/09 OPERATIONAL SERVICES DIVISION DATE	HANCOCK PARKWAY SEWAGE LIFT STATION (TEMPORARY) PARCEL MAP NO. 26363 CONTROLS 2	SPEC. NO. OF JOB NO. DRAWING NO.	E-12 SHEET 61 OF 61 SHEETS																