

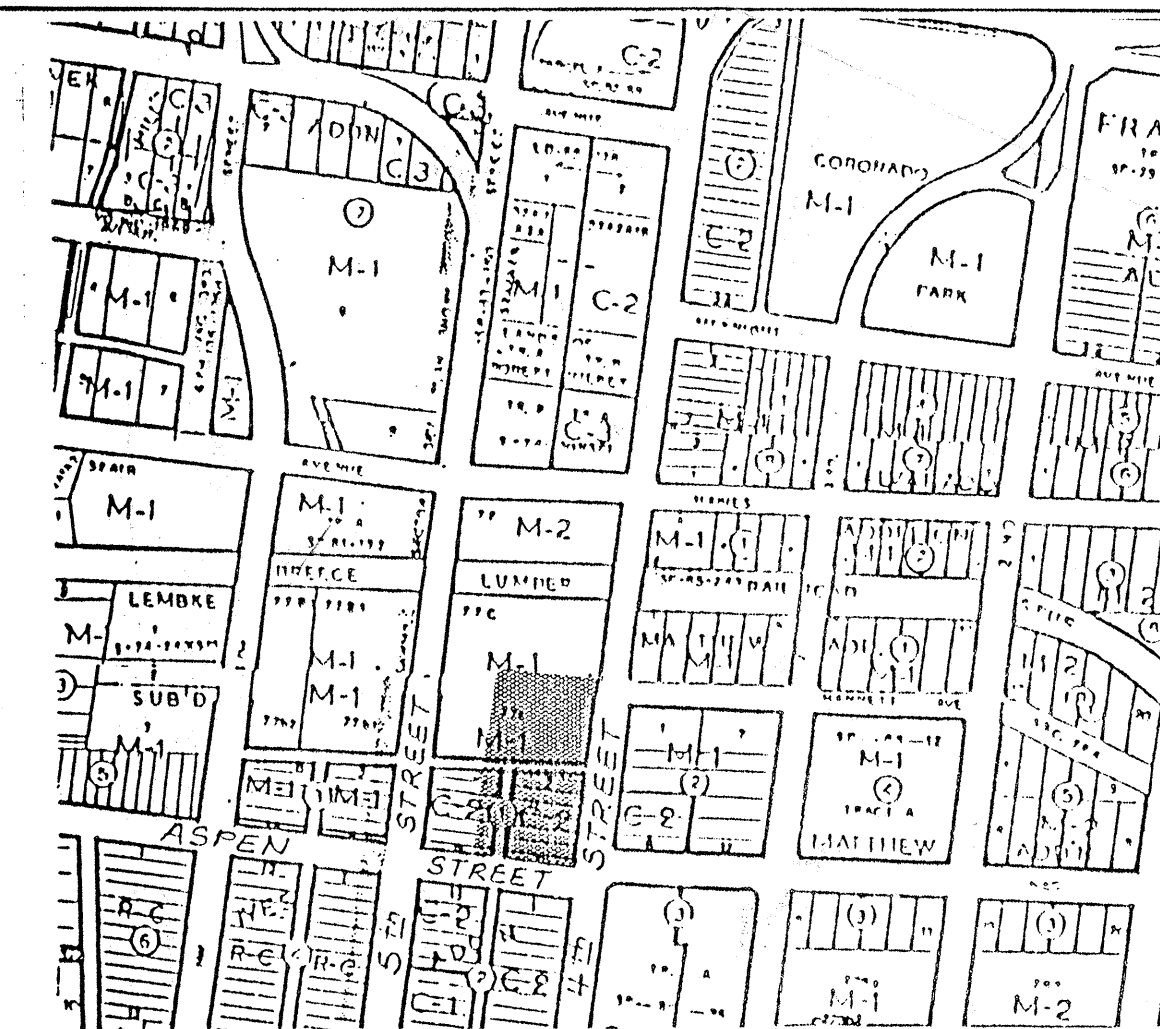
FOURTH STREET FUELING FACILITY

CITY OF ALBUQUERQUE, NEW MEXICO

GENERAL SERVICES DEPARTMENT

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- S5 CONCRETE FLOOR AND MISCELLANEOUS DETAILS



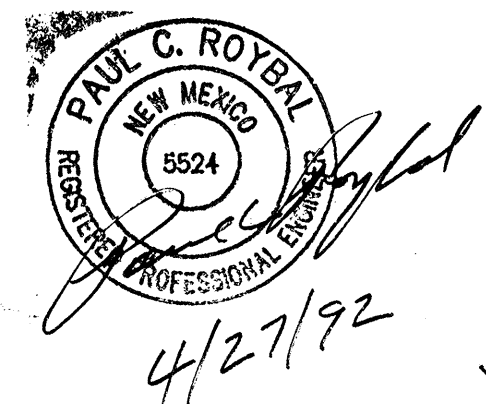
VICINITY MAP H14,J14

CODE DESIGN DATA

OCCUPANCY GROUP	B-2
TYPE OF CONSTRUCTION	V-N
AREA OF EACH FLOOR	1809
OCCUPANT LOAD	15
SEISMIC ZONE	2B
SOIL BEARING CAPACITY	3000 PSF
CONCRETE STRENGTH	3000 PSI
STRESS VALUES:	
LUMBER	N/A
STEEL	ASTM A36
WIND DESIGN LOAD	75 MPH, EXP C
ROOF DESIGN LOAD	20 PSF
FLOOR DESIGN LOAD	150 PSF FOR MECHANICAL ROOM
CORRIDOR DESIGN LOAD	N/A

ALB. BLDG. CODE 301 (d)

REV.	SHEETS	CITY ENGR.	DATE	USER DEPT.	DATE	USER DEPT.	DATE
APPROVAL OF REVISIONS							



Holmes & Narver

APPROVED FOR
CONSTRUCTION

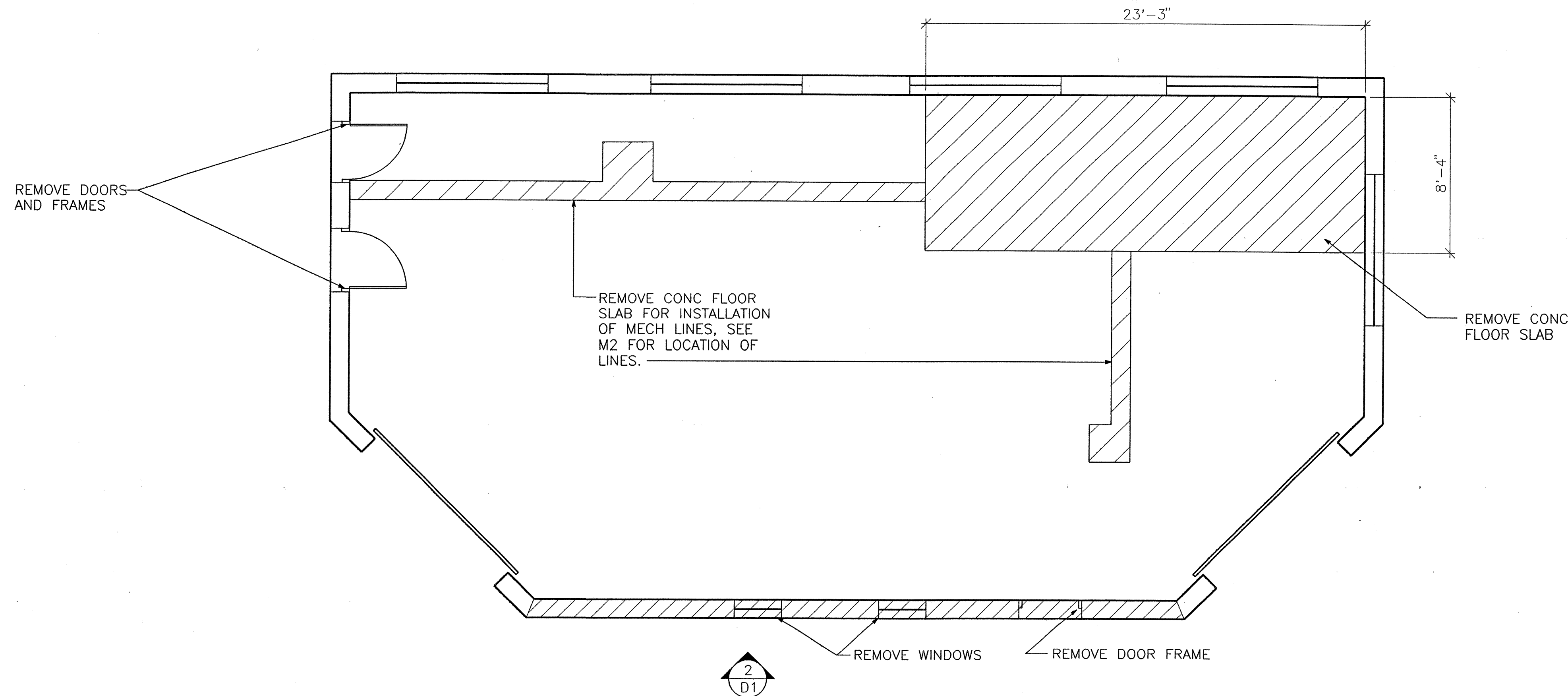
C.E.

PROJECT NO. 4309.90

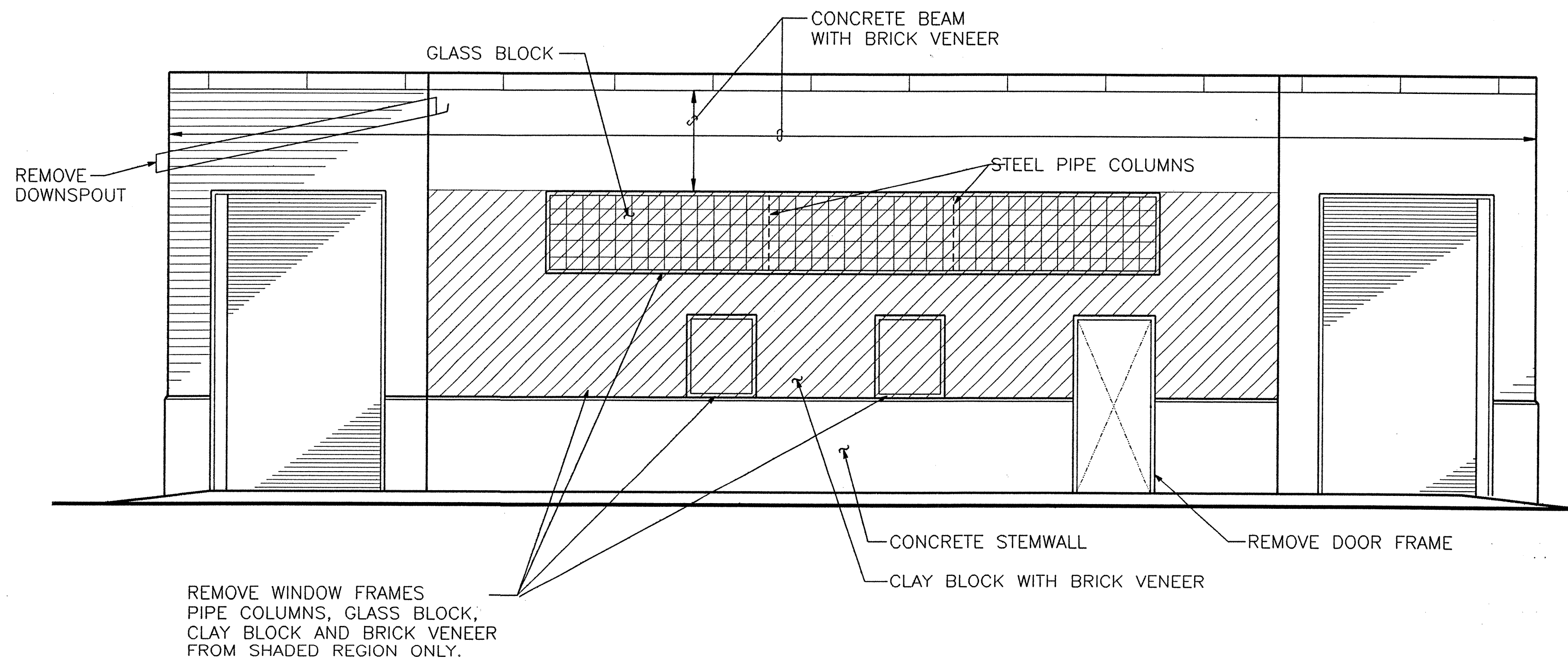
SHEET 1 OF 25

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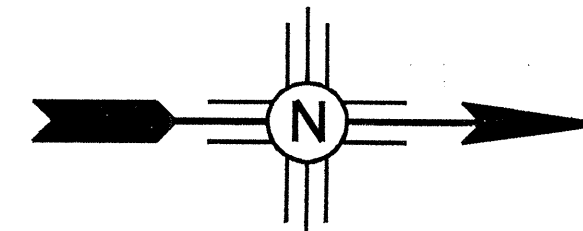
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FLOOR PLAN
SCALE: 1/4"=1'-0"



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



1/4"=1'-0" 0 4 8 12 FT.

GENERAL NOTES

- 1 CONTRACTOR SHALL PROVIDE ALL SHORING AND BRACING NECESSARY TO ADEQUATELY SUPPORT STRUCTURE TO REMAIN. SEE SPEC SECTION 02070.
- 2 SEE SPEC SECTION 02110 FOR SITE CLEARING.
- 3 THICKNESS OF EXISTING CONC FLOOR SLAB IS UNKNOWN. FIELD DETERMINE.
- 4 FOR ADDITIONAL REMOVALS SEE SHEETS C1, E2

AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR	DATE	BY	DATE	NO.	BY	DATE	NO.	NO.	BY	DATE	NO.	NO.	BY	DATE	NO.
REVISIONS	DATE	BY	DATE	NO.	BY	DATE	NO.	NO.	BY	DATE	NO.	NO.	BY	DATE	NO.
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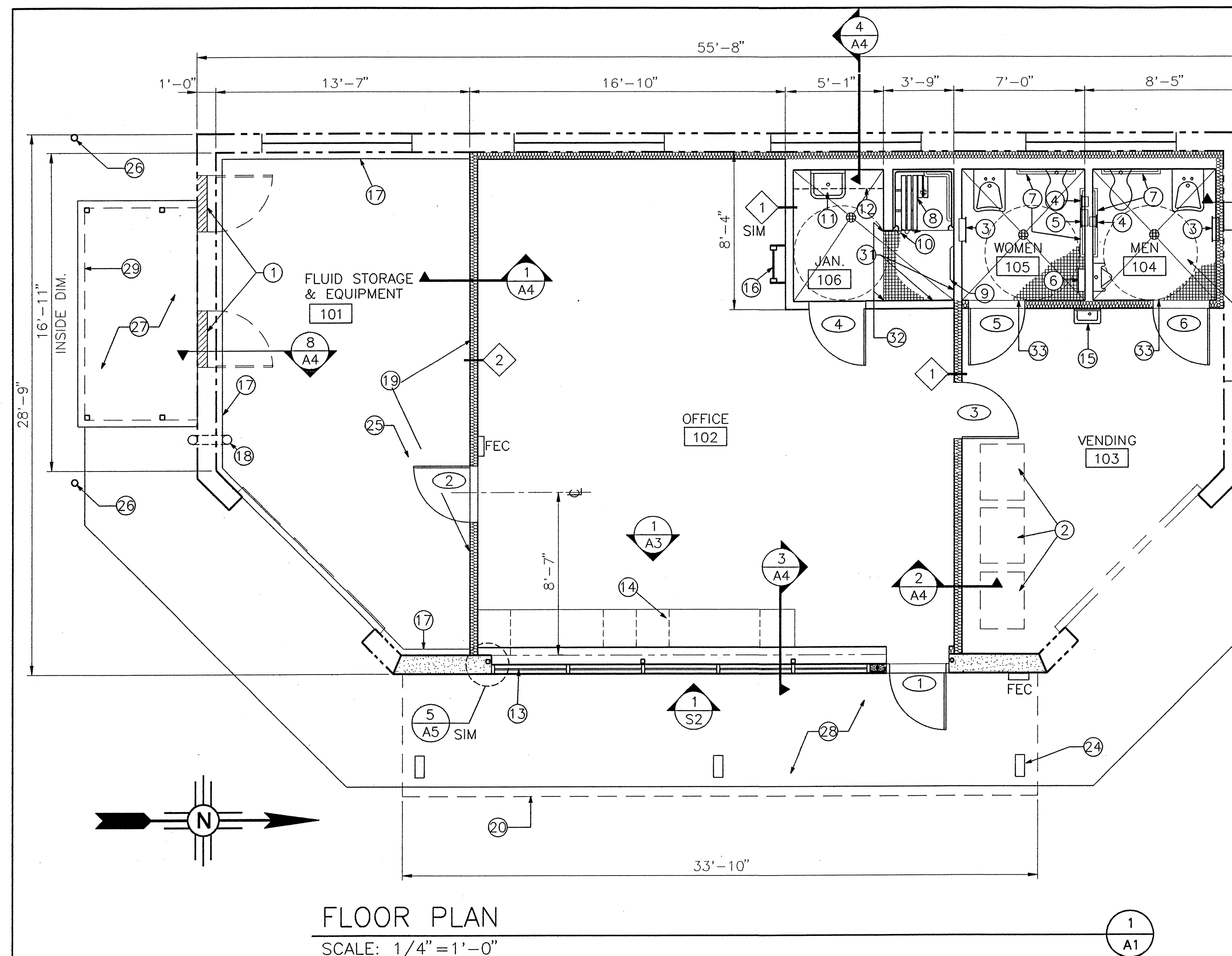
H&N
HOLMES & NARVER, INC.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

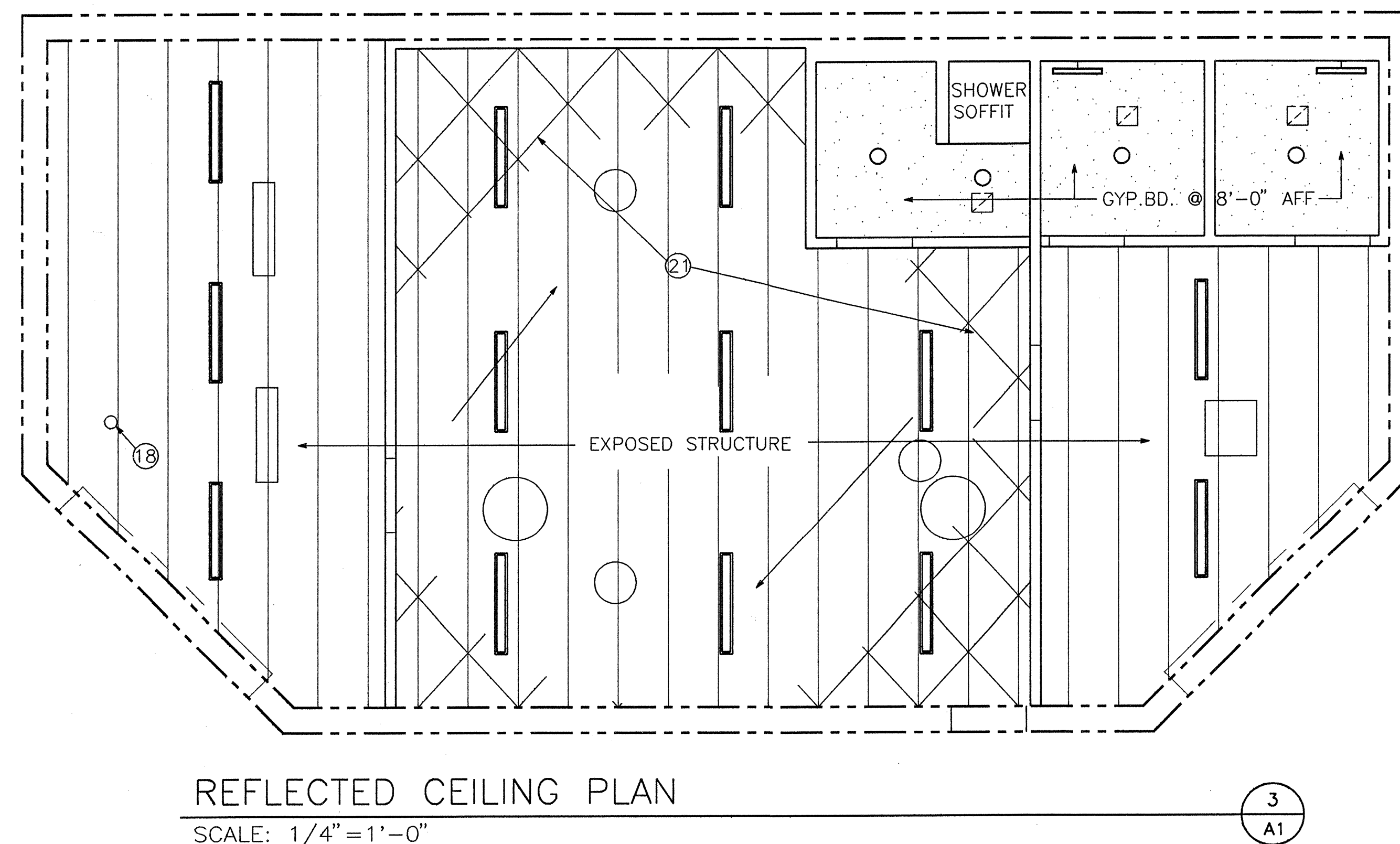
TITLE: FOURTH STREET FUELING FACILITY
ARCHITECTURAL DEMOLITION PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair					
Trans. Dev.					
Utility Dev.					

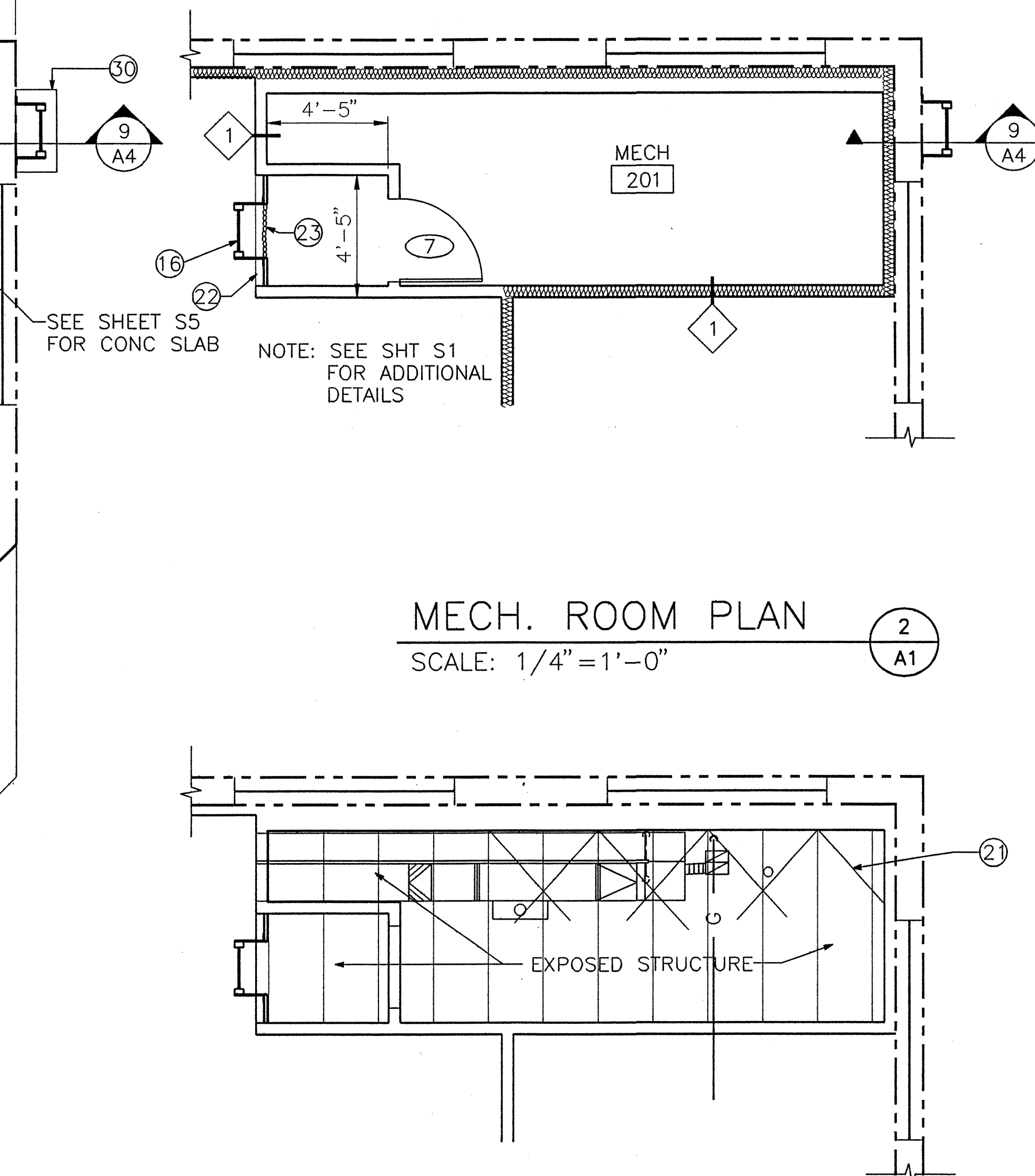
PROJECT NO. 4309.90 MAP NO. H14,J14 SHEET D1 OF 25



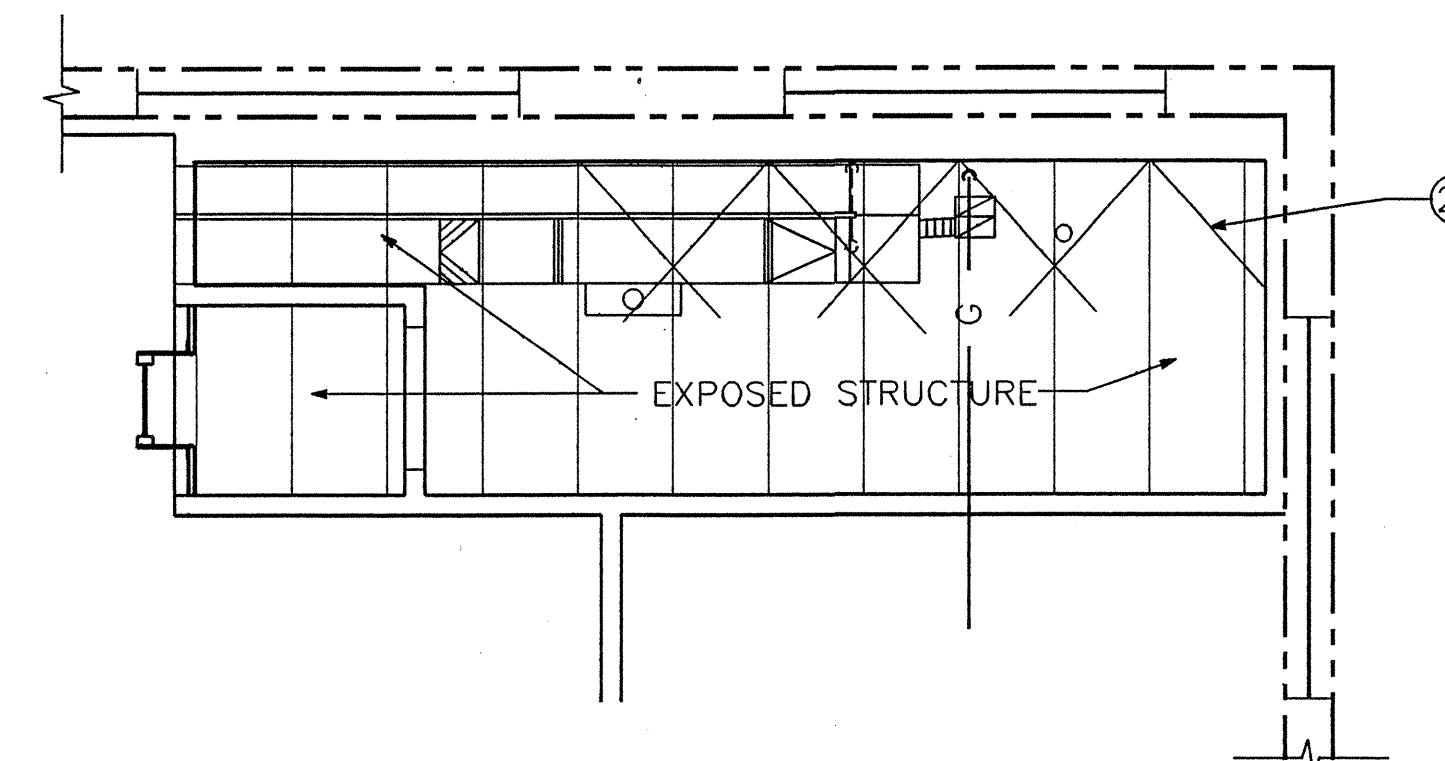
FLOOR PLAN
SCALE: 1/4" = 1'-0"



REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

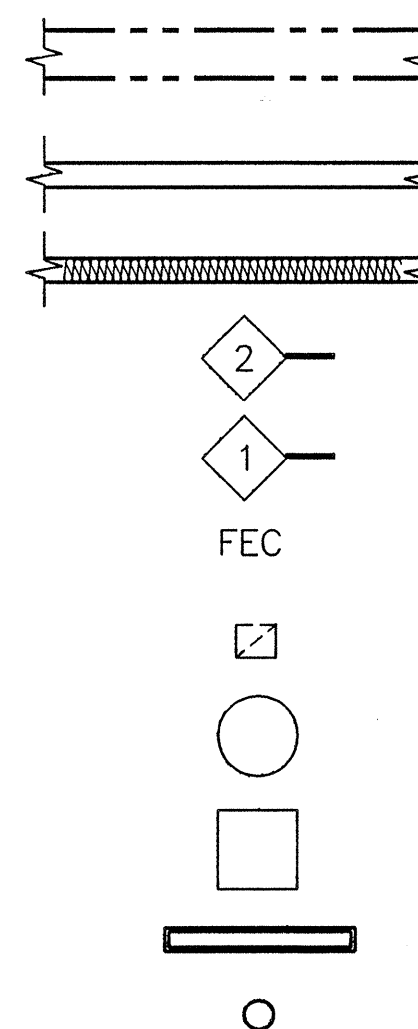


MECH. ROOM PLAN
SCALE: 1/4"=1'-0"



MECH. ROOM CLG PLAN
SCALE: 1/4" = 1'-0"

LEGEND



EXISTING CONSTRUCTION

NEW CONSTRUCTION

INSULATED GYPSUM BOARD &
MTL. STUD WALL

2 HR. G.B./MTL STUD WALL, U.L. NO. U411 SEE 1/A4

1 HR. G.B./MTL STUD WALL, U.L. NO. U465 SEE 2/A4

FIRE EXTINGUISHER CABINET

EXHAUST FAN

SUPPLY DIFFUSER

INFRARED HEATER

FLOURESCENT FIXTURE

CEILING MOUNTED FIXTURE

1/4" = 1'-0"  0 4 8 12 FT.

☐ KEYED NOTES

- 1 INFILL W/ NEW STUDS AND ONE-COAT SYSTEM STUCCO, SEE SHEET A4
- 2 VENDING MACHINES NOT IN CONTRACT
- 3 PAPER TOWEL DISPENSER AND DISPOSAL
- 4 TOILET PAPER DISPENSER
- 5 SANITARY NAPKIN DISPOSAL
- 6 SANITARY NAPKIN DISPENSER
- 7 GRAB BARS
- 8 FOLD-UP SHOWER SEAT
- 9 TOWEL ROD
- 10 SHOWER CURTAIN AND ROD
- 11 SERVICE SINK
- 12 MOP RACK
- 13 NEW H.M. FRAME WITH INSULATED GLAZING
- 14 COUNTER
- 15 ELECTRIC WATER COOLER
- 16 ACCESS LADDER SEE SHT A3
- 17 4" WIDE x 6" HIGH CONC. CURB SEE DETAIL 5/A4
- 18 ROOF DRAIN - EXISTING
- 19 6" WIDE x 6" HIGH CONC CURB @ 2-HR WALL SEE DETAIL 5/A4
- 20 NEW CANOPY ABOVE
- 21 TYP. LACING PATTERN OF GALV WIRE SUPPORT SYSTEM FOR VINYL FACED R19 BATT INSULATION. TIE TO BAR JOIST.
- 22 1 1/2"Ø STL PIPE GUARDRAIL @ 42" W/1 1/2"Ø BALLUSTERS VERT. @ TOE BOARD
- 23 SAFETY CHAIN
- 24 CANOPY SUPPORTS
- 25 deleted
- 26 PIPE BOLLARDS, SEE S3 FOR LOCATION
- 27 NEW CONC PAD, SEE S3
- 28 NEW CONC SIDEWALK, SEE C2
- 29 PREFORMED ROOF ABOVE, SEE S3
- 30 1'-6" x 3'-0" x 8" CONC PAD. ATTACH LADDER W/ 5/8"Ø EXPANSION ANCHORS
- 31 CERAMIC TILE OVER CEMENT. BACKER BOARD - FULL HEIGHT
- 32 EXTENT OF CERAMIC TILE
- 33 STONE THRESHOLD



HOLMES & NARVER, INC.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: FOURTH STREET FUELING FACILITY
FLOOR, REFLECTED CEILING PLANS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair					
Trans. Dev.					
Utility Dev.					

PROJECT NO.	4309.90	MAP NO.	H14.J14	SHEET	A1	OF	25
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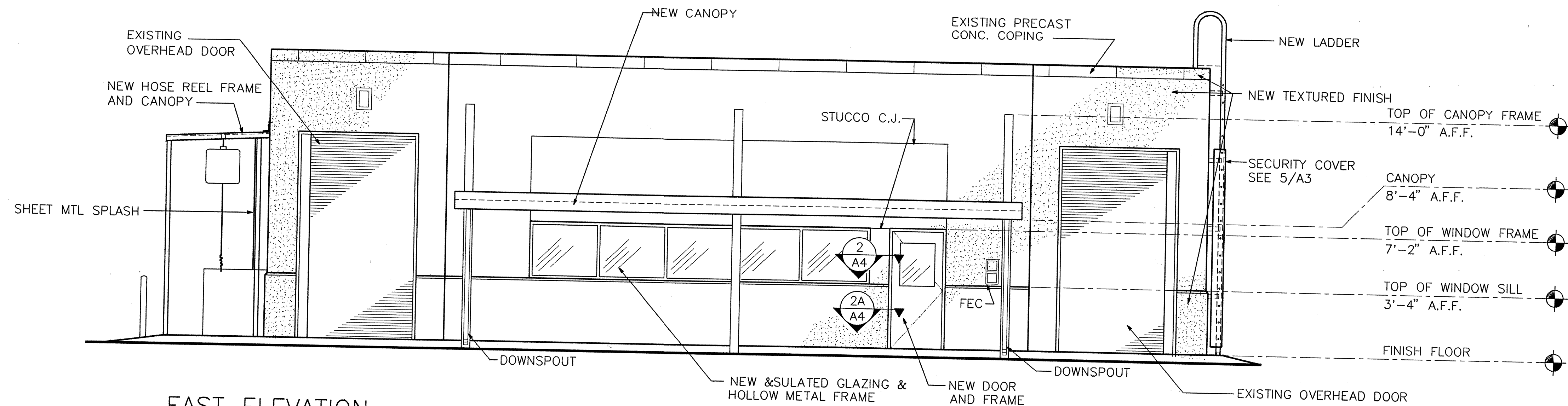
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						STARTED BY	
						DATE	
						ACCEPTANCE BY	
						DATE	
						FIELD LOCATION BY	
						DATE	
						DRAWINGS	
						CORRECTED BY	
						DATE	
						MICRO-FILM INFORMATION	
						RECORDED BY	
						DATE	
						NO.	

DESIGNED BY: J. STREMEL

DRAWN BY: G. GRIEGO

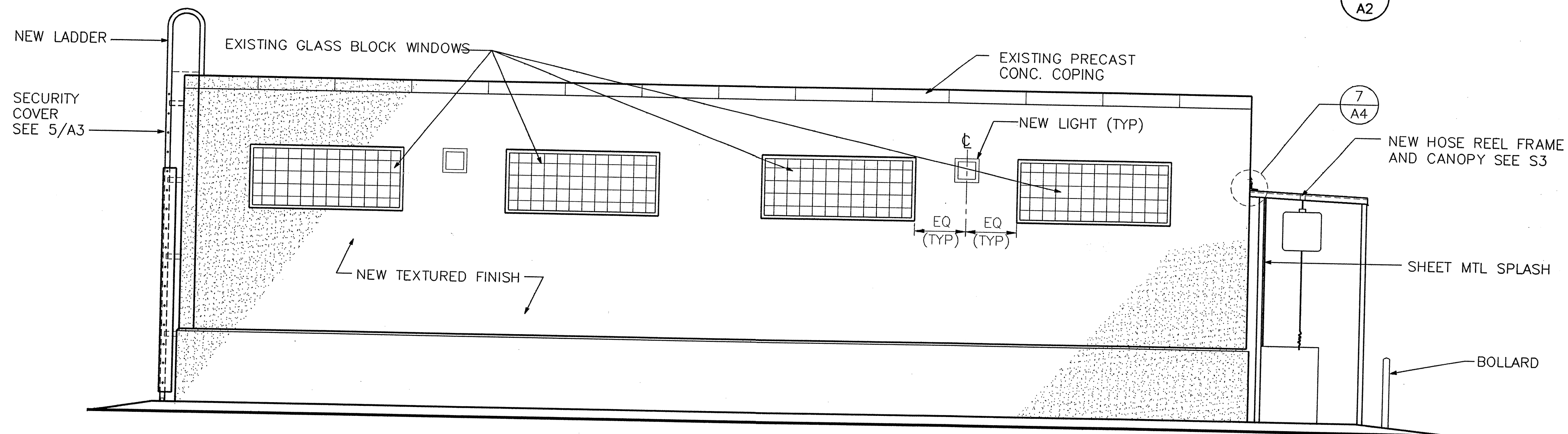
CHECKED BY: P. ROYBAL

DATE: JAN. 1992



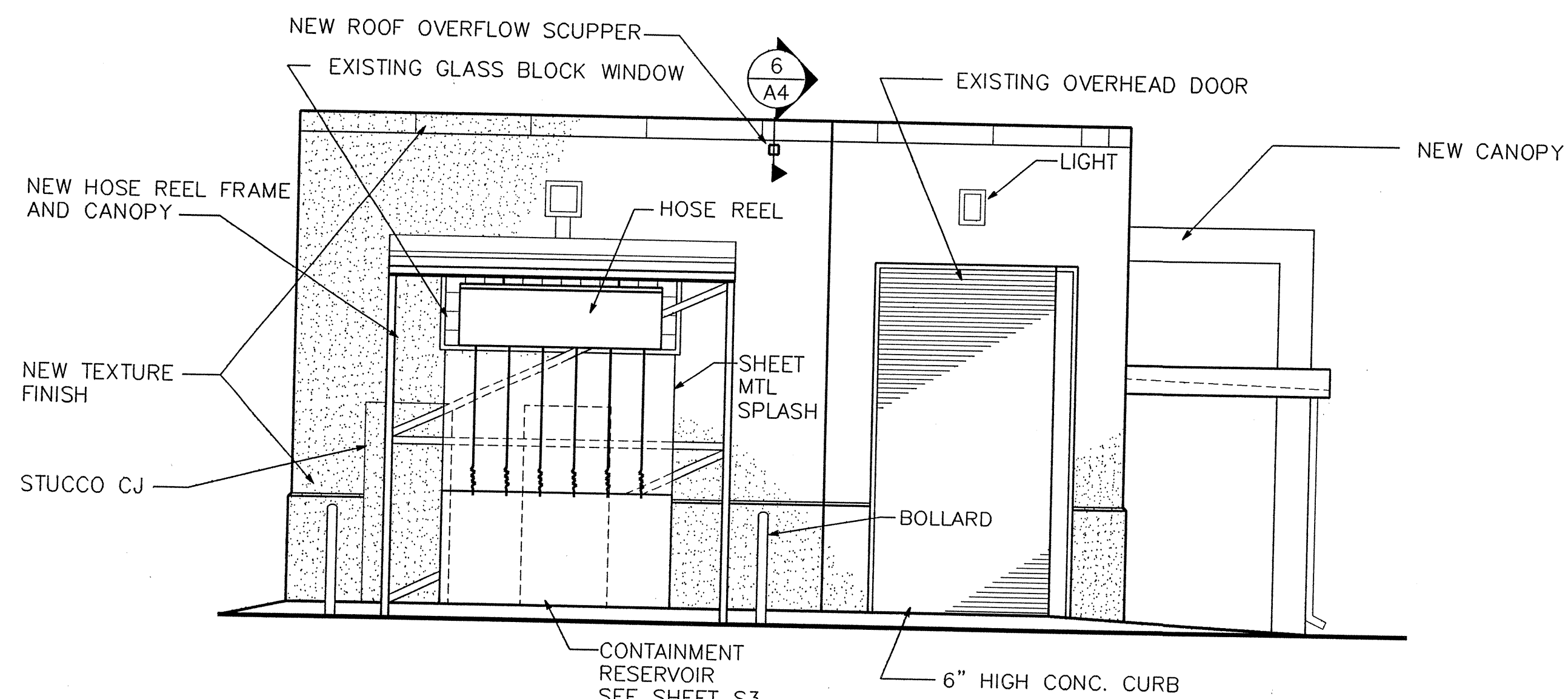
EAST ELEVATION

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



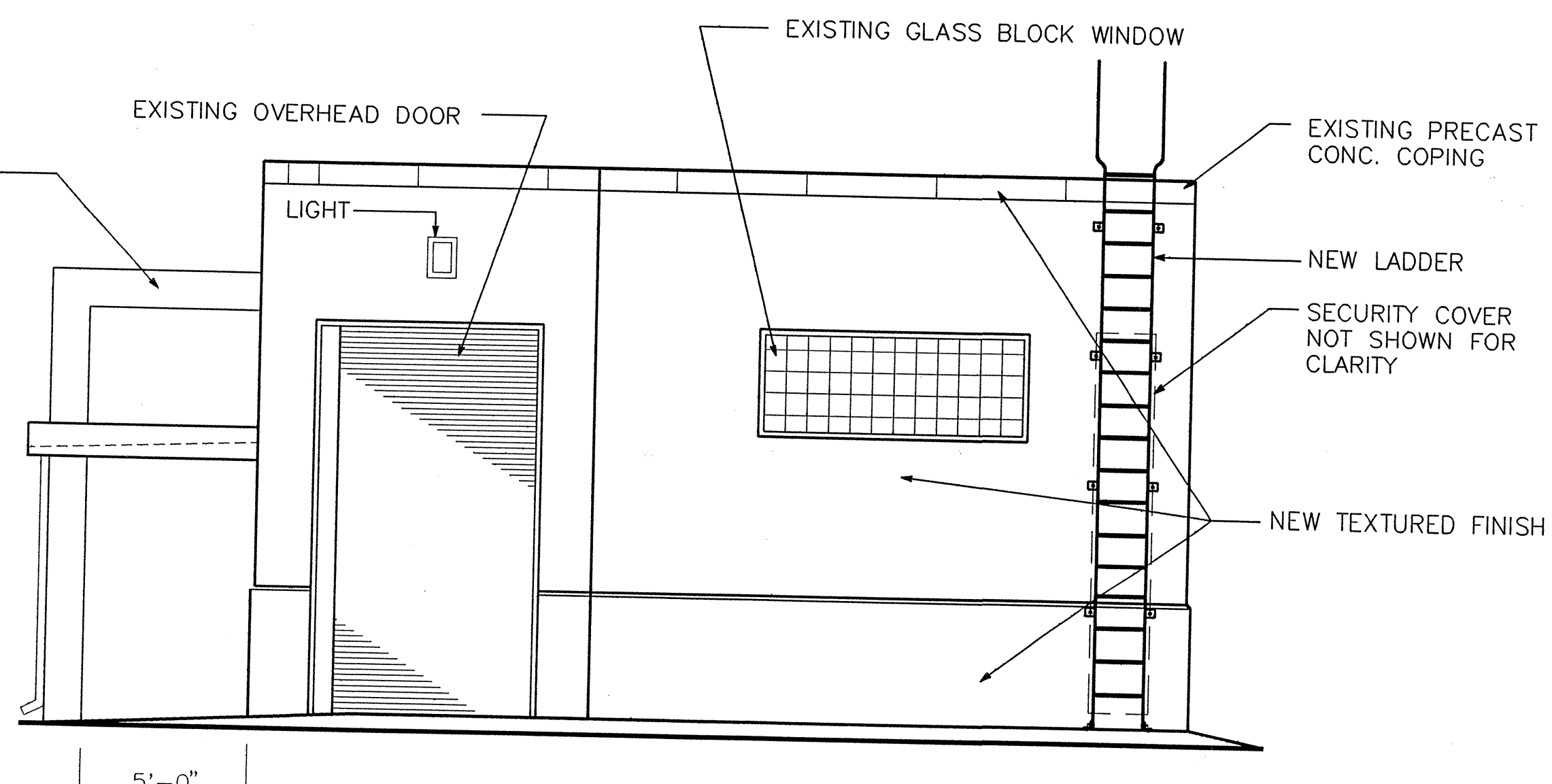
WEST ELEVATION

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



SOUTH ELEVATION

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



NORTH ELEVATION

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

1/4" = 1'-0" 0 4 8 12 FT.

AS BUILT INFORMATION					
CONTRACTOR	DATE	DATE	DATE	DATE	DATE
STARTED BY	DATE	DATE	DATE	DATE	DATE
ACCEPTANCE BY	DATE	DATE	DATE	DATE	DATE
FIELD	DATE	DATE	DATE	DATE	DATE
DESIGNED BY	DATE	DATE	DATE	DATE	DATE
CHECKED BY	DATE	DATE	DATE	DATE	DATE
MICRO-FILM INFORMATION					
RECORDED BY	DATE	DATE	DATE	DATE	DATE
NO.	BY	DATE	NO.	BY	DATE
SURVEY INFORMATION					
FIELD NOTES					
ENGINEER'S SEAL					
REVISIONS					
NO.	DATE	BY	NO.	DATE	BY
DESIGN					
DESIGNED BY	DATE	DATE	DESIGNED BY	DATE	DATE
DRAWN BY	DATE	DATE	DRAWN BY	DATE	DATE
CHECKED BY	DATE	DATE	CHECKED BY	DATE	DATE

HN
HOLMES & NARVER, INC.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: FOURTH STREET FUELING FACILITY
EXTERIOR ELEVATIONS

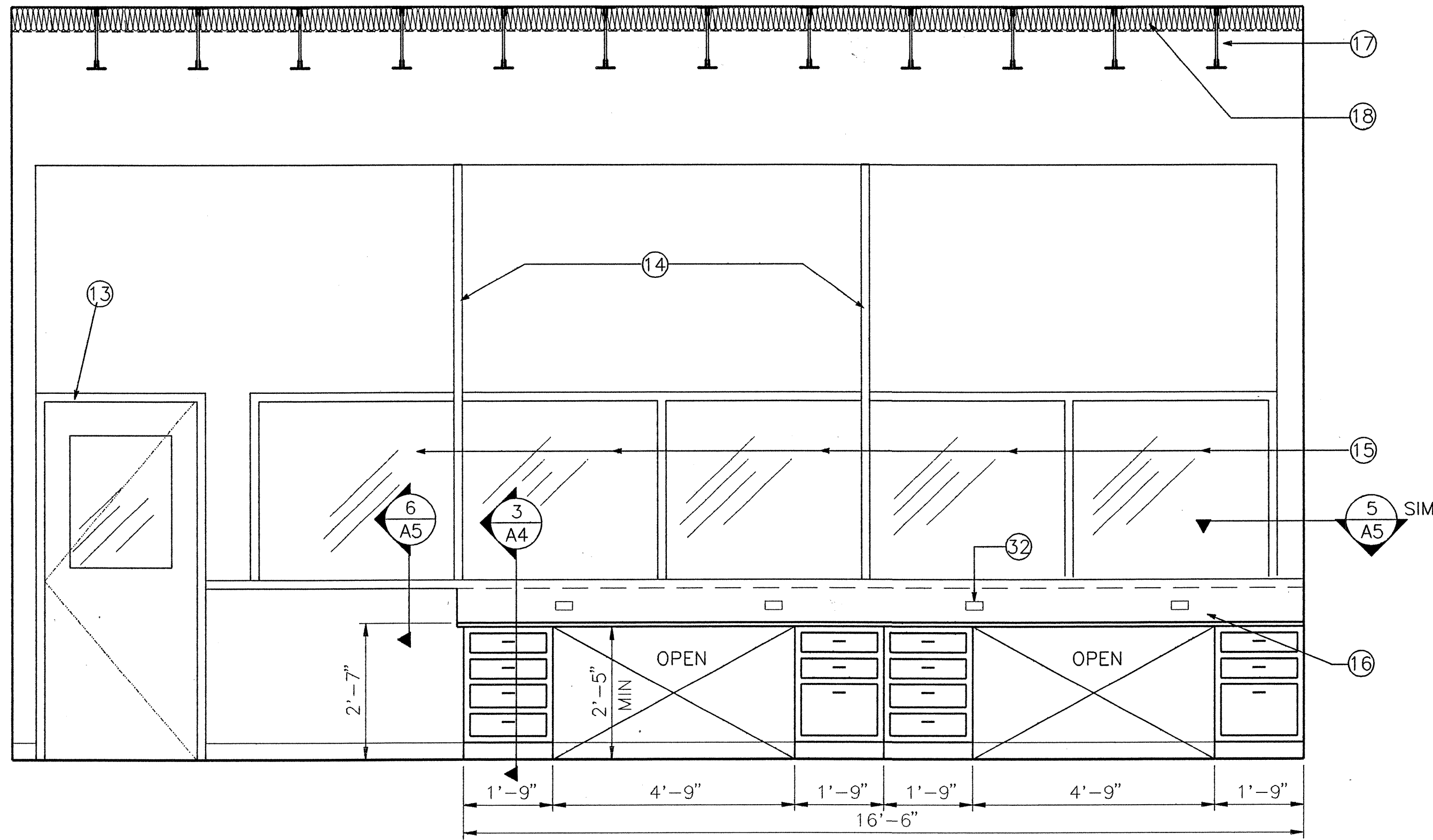
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair					
Trans. Dev.					
Utility Dev.					
PROJECT NO.	4309.90	MAP NO.	H14,J14	SHEET	A2 OF 25

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TIME:

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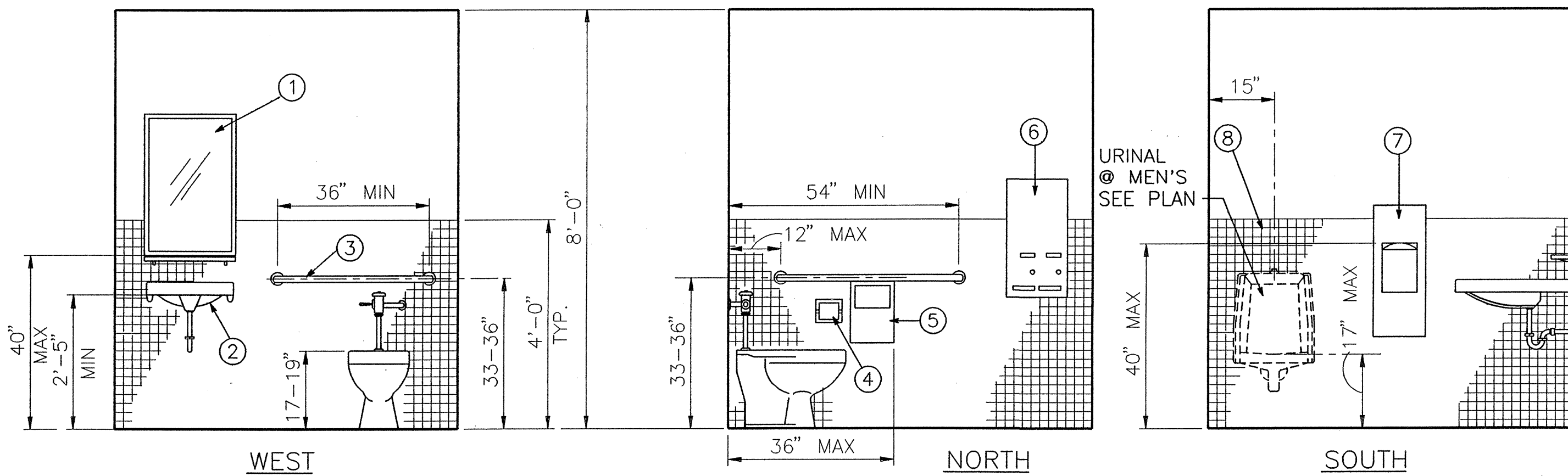
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COUNTER/CABINET ELEVATION

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

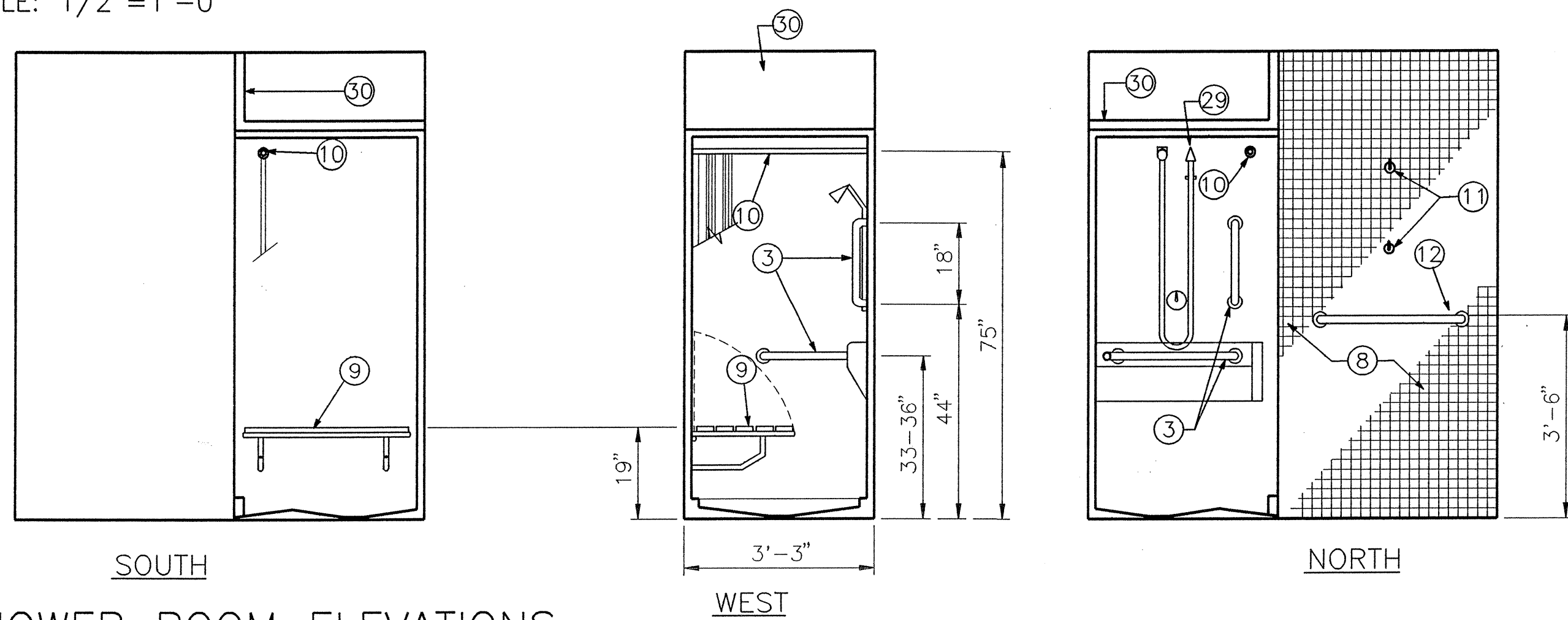
1
A1

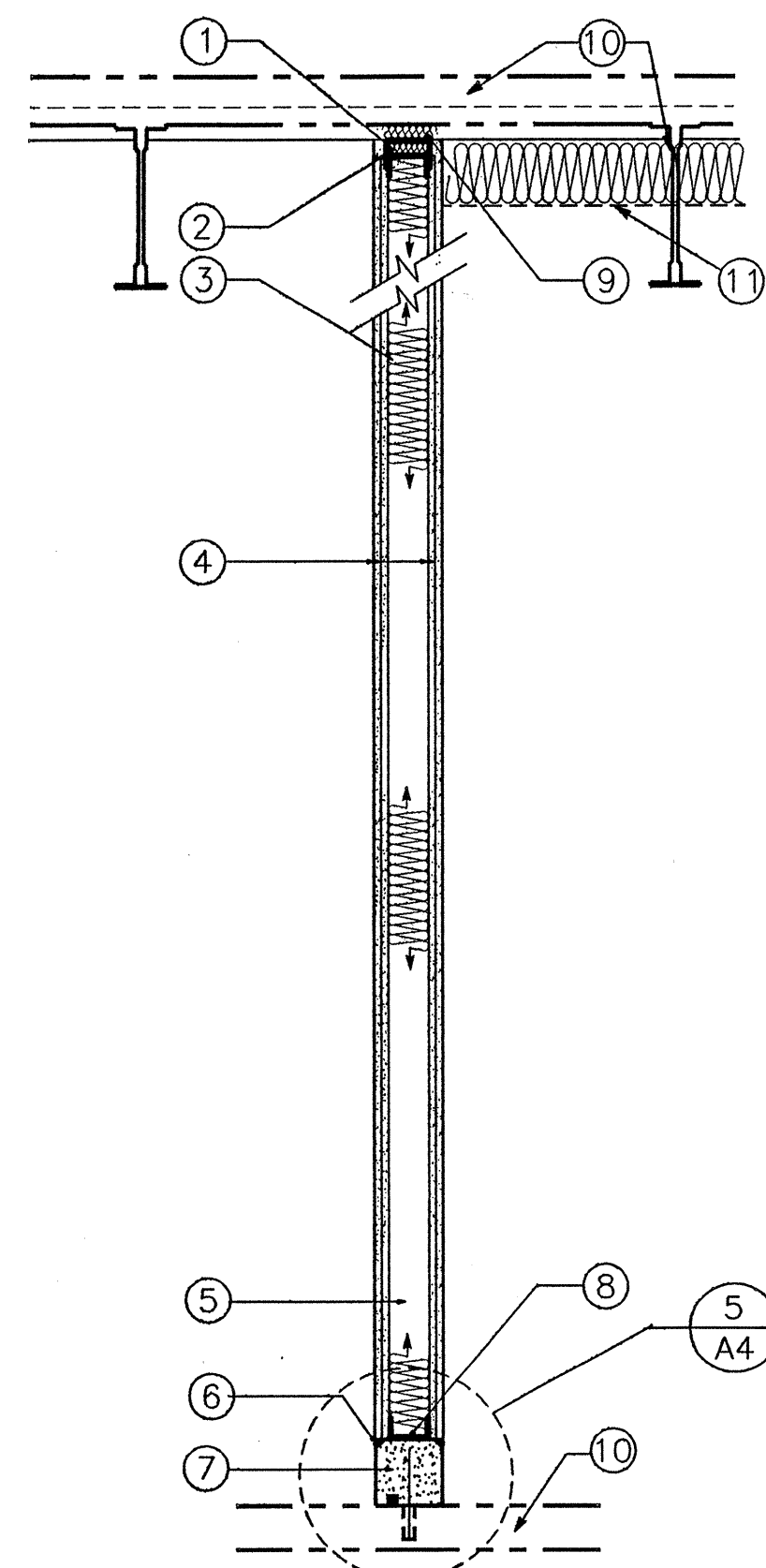


WOMEN'S TOILET ROOM ELEVATIONS (MEN'S SIMILAR AND OPPOSITE)

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

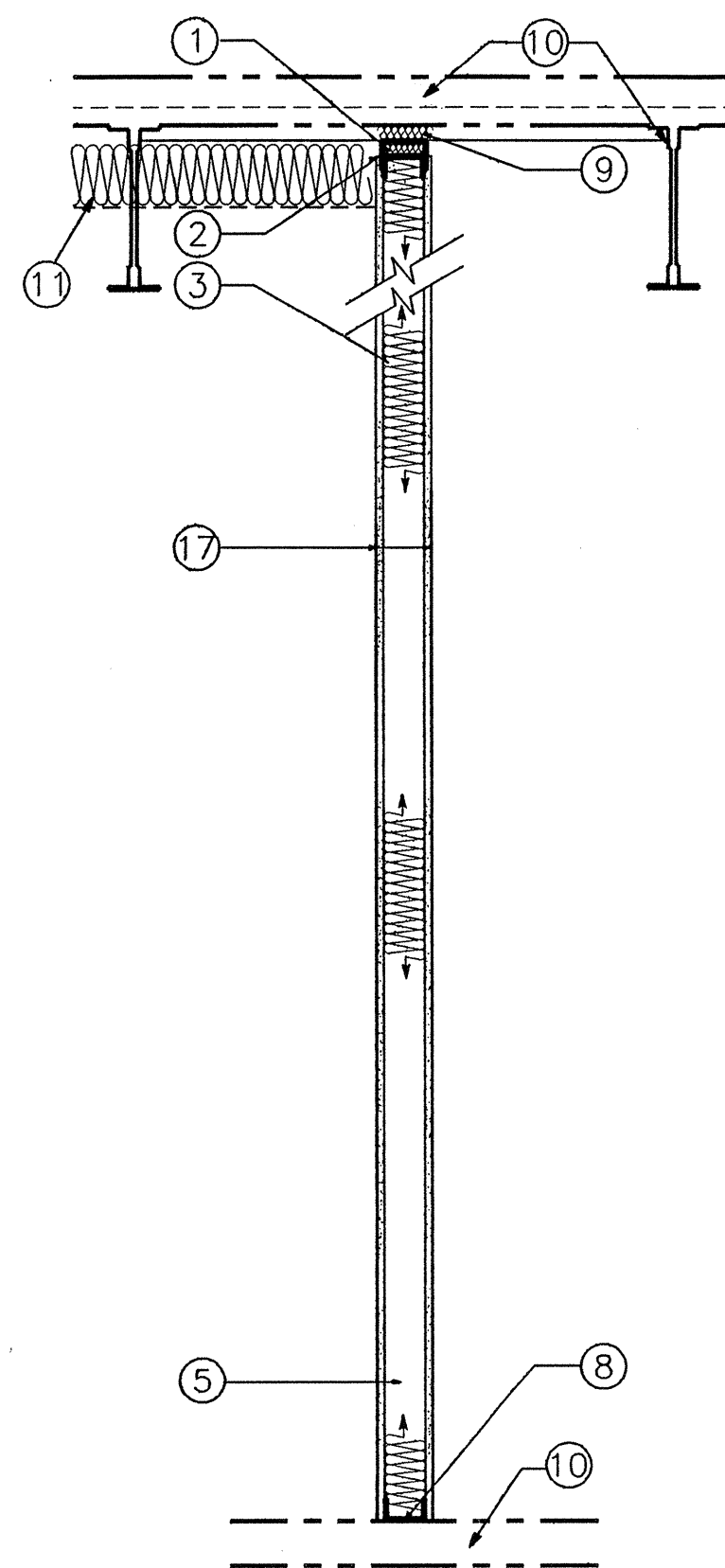
2
A1





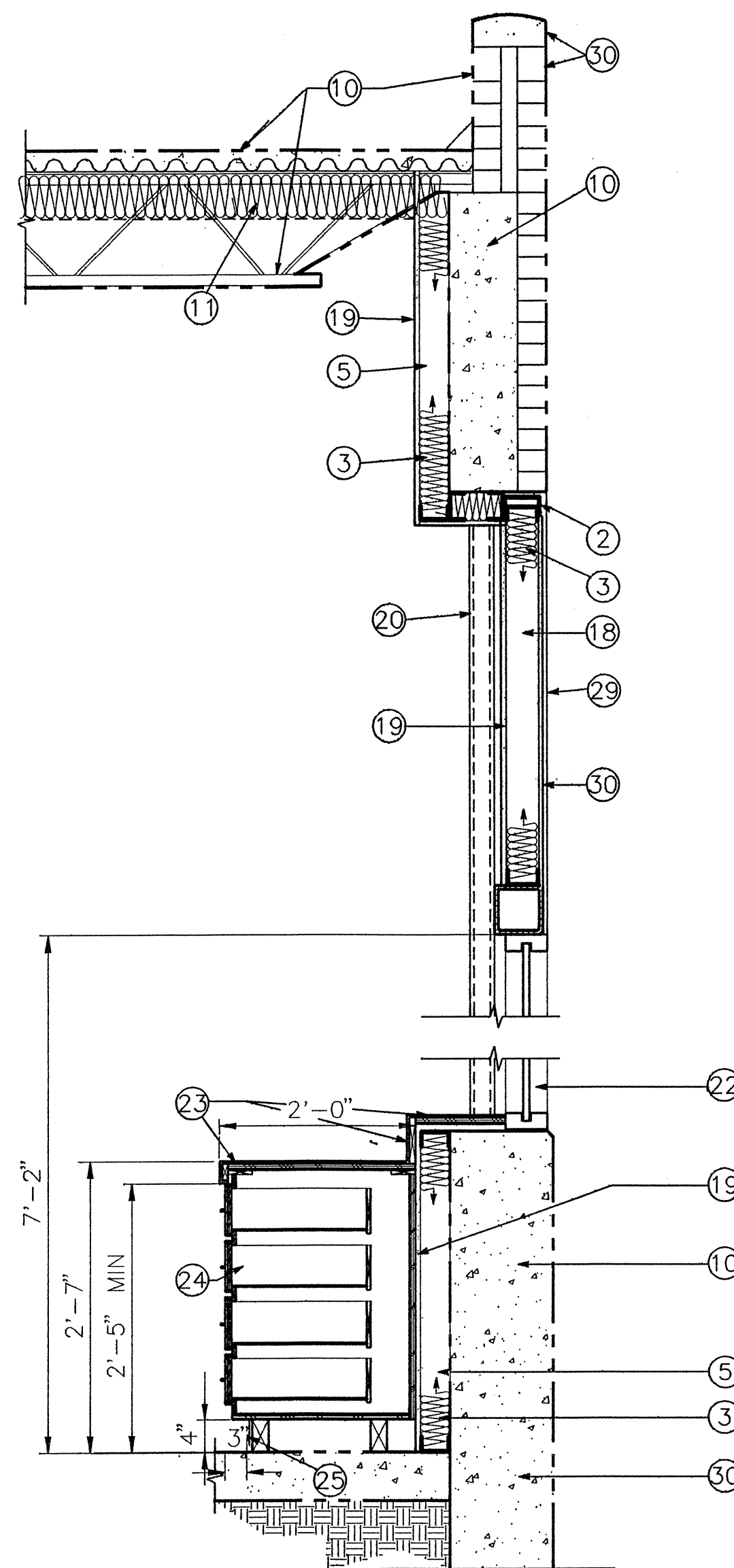
WALL SECTION (1)
SCALE: 3/4" = 1'-0" (A1)

TYPE 2
(2 HR FIRE RATING)
U.L. DESIGN NO. U411



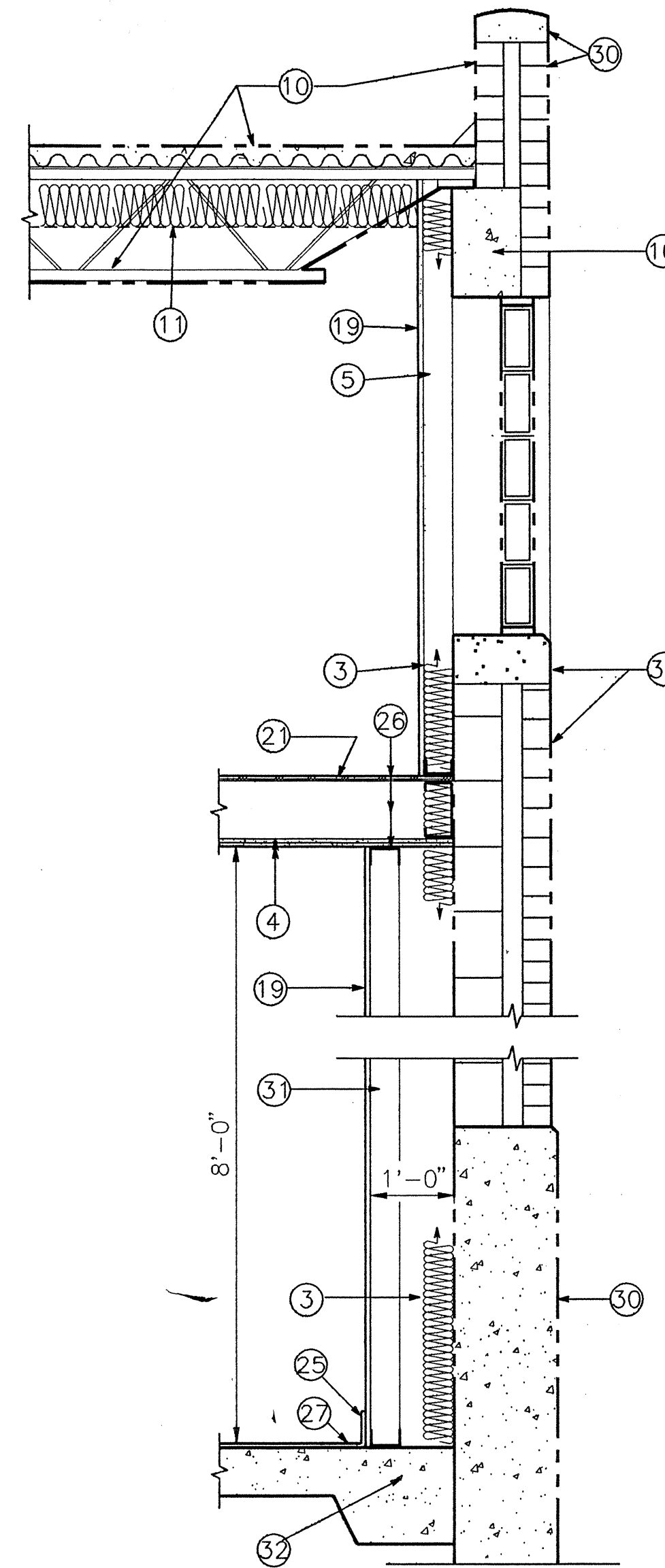
WALL SECTION (2)
SCALE: 3/4" = 1'-0" (A1)

TYPE 1
(1 HR FIRE RATING)
U.L. DESIGN NO. U465



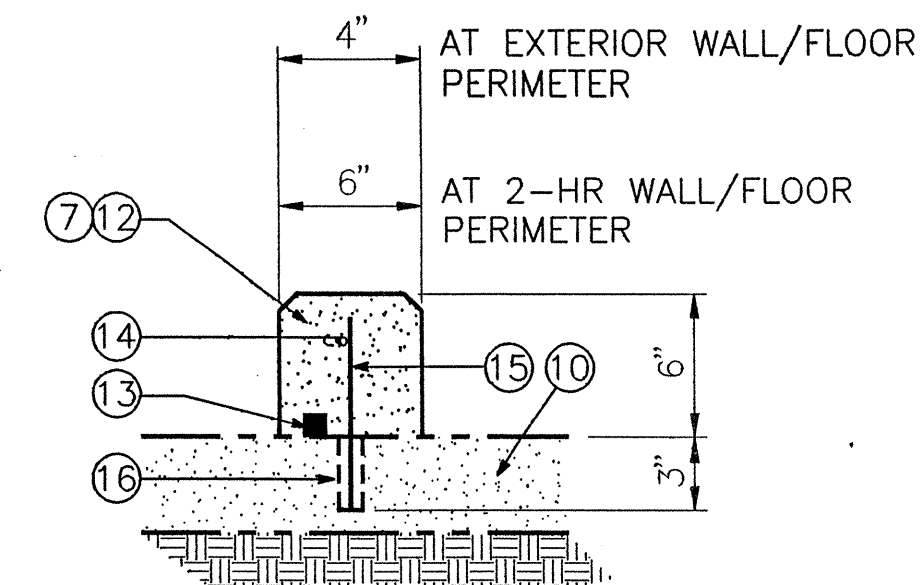
WALL SECTION 3
SCALE: 3/4" = 1'-0" A1

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



WALL SECTION (4)
SCALE: 3/4" = 1'-0" (A1)

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

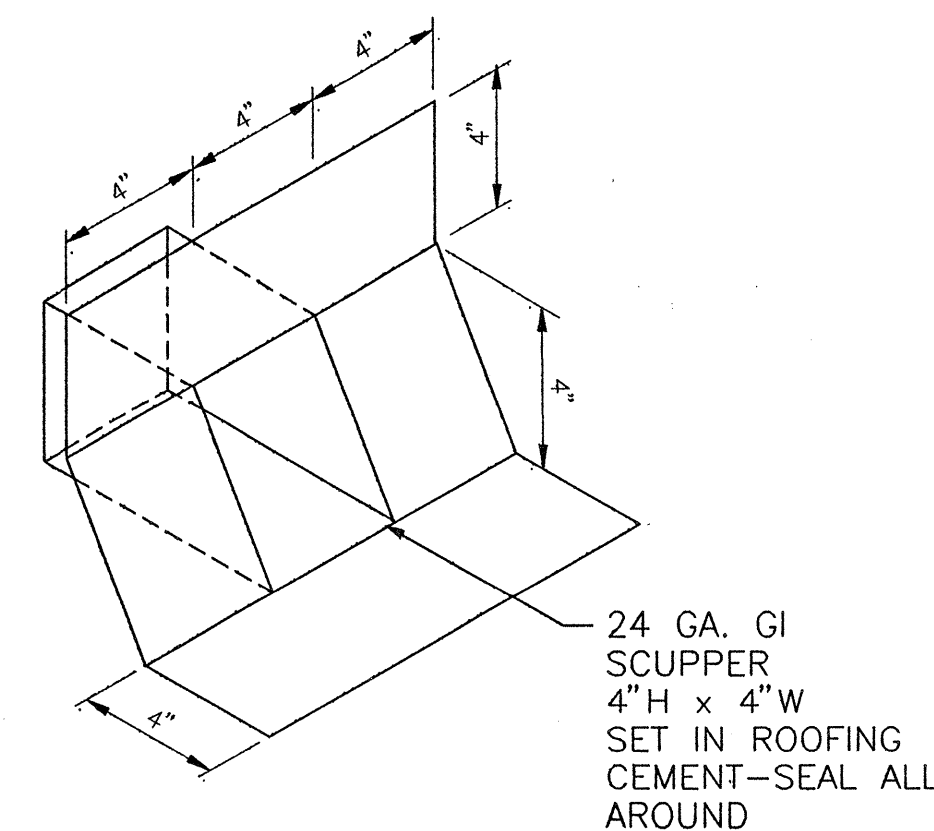


CURB DETAIL

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

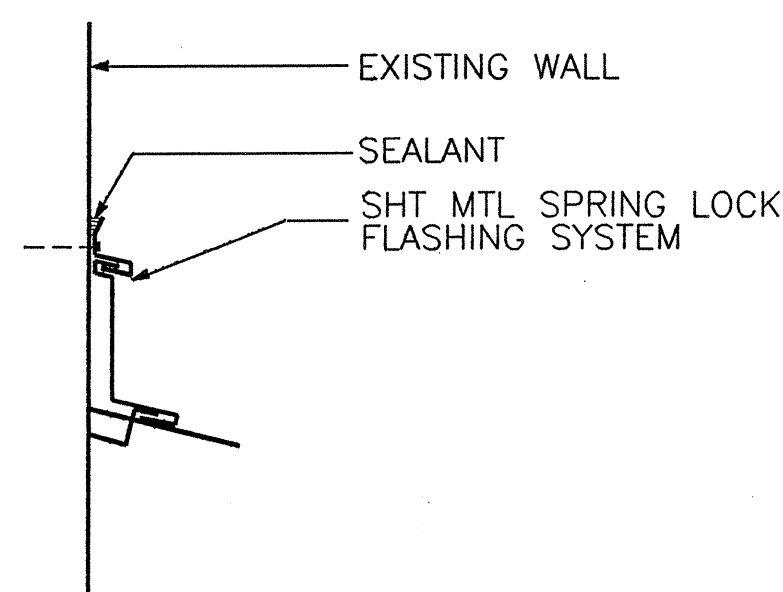
5
A1

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



SCUPPER ISOMETRIC (6)
SCALE: NTS A2

SCALE: NTS

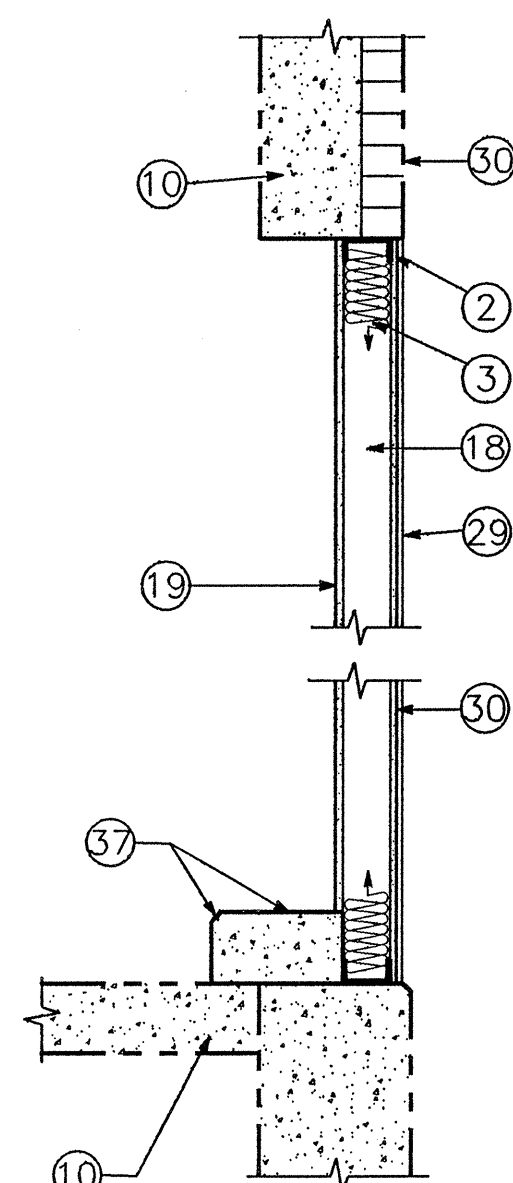


ROOF DETAIL

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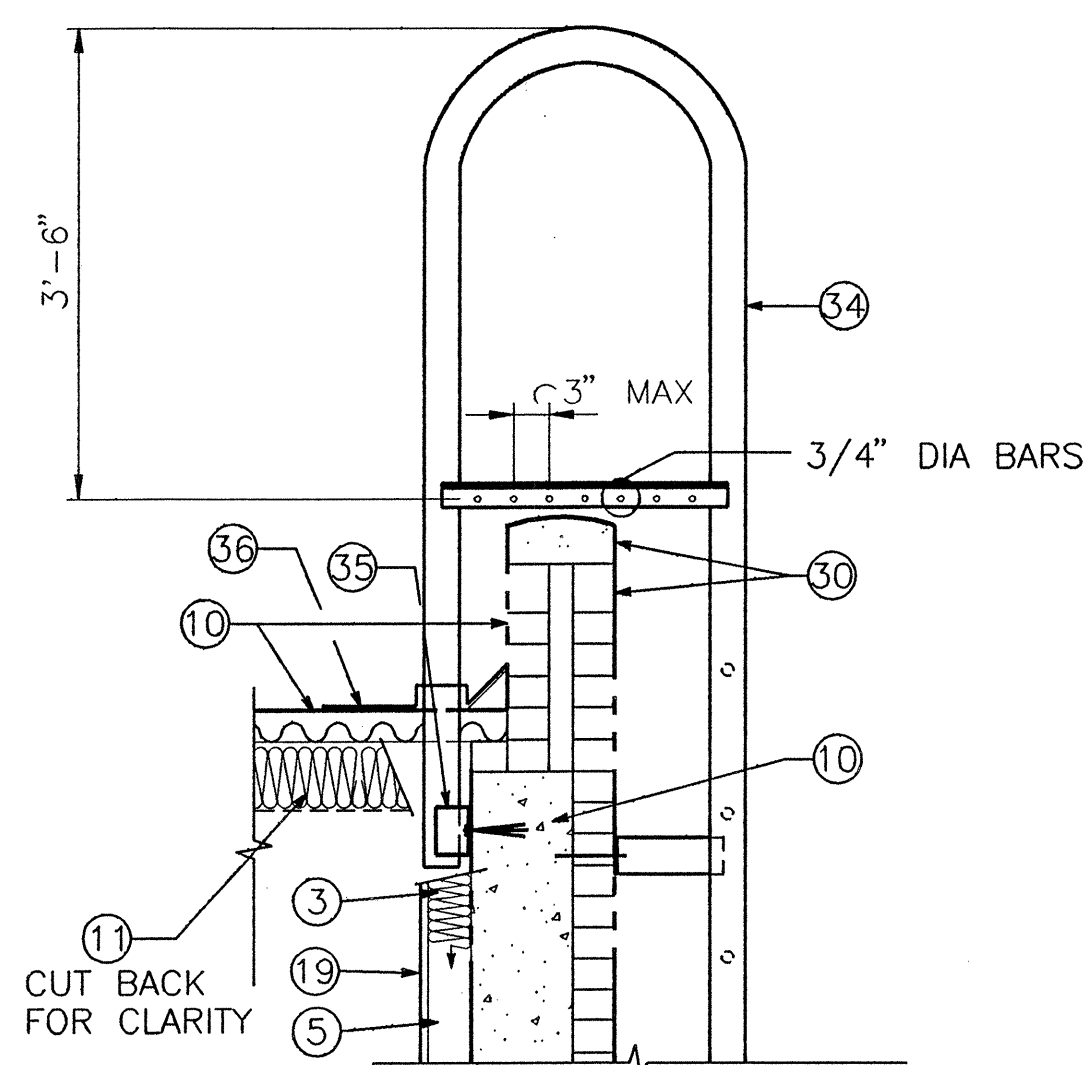
7
A2

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



WALL SECTION 8
SCALE: 3/4" = 1'-0" A1

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



WALL SECTION

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

9
A1

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

36 FLASHING AROUND PENETRATION

37 NEW 6" HIGH CURB - EXTEND
INTO DOORWAY SPACE

KEYED NOTES

- 1 SLIP JOINT
- 2 DOUBLE TRACK SUPPORT
- 3 R-13 BATT INSULATION-ON IMPALING PINS WHERE NO STUDS
- 4 2 LAYERS 5/8" TYPE 'X' GYP BD EACH SIDE.
- 5 3 5/8" STUDS @ 16" O.C.
- 6 CONTINUOUS SEALANT
- 7 NEW 6" WIDE X 6" HIGH CONC. CURB @ 2-HR WALL. 3/4" CHAMFER EA. SIDE
- 8 SET BOTTOM TRACK IN CONT. BED OF MASTIC
- 9 FILL ALL VOIDS W/ FIRE SAFING
- 10 EXISTING STRUCTURE
- 11 WHITE VINYL-FACED R-19 BATT INSULATION ON GALV. WIRE SUPPORT SYSTEM
- 12 NEW 4" WIDE X 6" HIGH CONC. CURB. 3/4" CHAMFER EA. SIDE
- 13 PLASTIC BENTONITE WATERSTOP AS SPECIFIED CONT THROUGHOUT NEW PERIMETER CURB
- 14 1-#4 BAR HORIZ., CONTINUOUS
- 15 #4 BARS VERT @ 16" O.C. 8"
- 16 ADHESIVE EMBEDMENT
- 17 1 LAYER 5/8" TYPE 'X' GYP BD.
- 18 3 5/8" GA METAL STUDS @ 16" O.C.
- 19 5/8" GYP. BOARD
- 20 TUBE COLUMN, SEE SHEET S2
- 21 1 1/8" PLYWOOD FLOORING
- 22 1" INSULATED GLAZING IN HM FRAME
- 23 PLASTIC LAMINATED CABINET, COUNTER, BACKSPASH AND SILL
- 24 DRAWERS, SEE 1/A3
- 25 BASE AS SCHEDULED
- 26 ENTIRE FLOOR ASSEMBLY UL DESIGN L524
- 27 FLOORING AS SCHEDULED
- 29 5/8" GYP. BD. W/ 3/8" STUCCO
- 30 SPRAY-ON TEXTURE COAT
- 31 LOAD BEARING STUDS SEE S1
- 32 CONCRETE SLAB
- 33 LADDER SECURITY COVER PLATE SEE DETAIL 5/A3
- 34 METAL LADDER
- 35 L 3 x 3 x 1/4 W/ 1/2"Ø EXP ANCHOR



H&N
HOLMES & NARVER, INC.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:	FOURTH STREET FUELING FACILITY WALL SECTIONS
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	APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair						
Trans. Dev.						
Utility Dev.						

PROJECT NO.	4309.90	MAP NO.	H14.J14	SHEET	A4	OF	25
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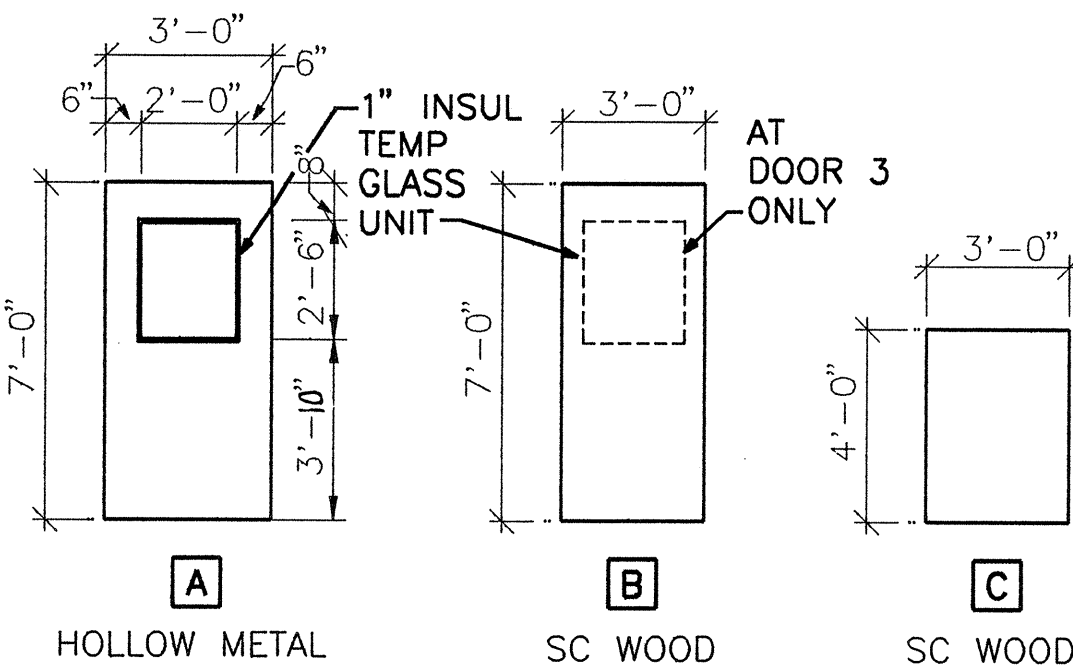
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PLOT SCALE : 1"=6"

DOOR SCHEDULE

MARK	SIZE	MATERIAL	DOOR TYPE	HARDWARE	RATING	DETAILS			REMARKS
						HEAD	JAMB	SILL	
1	3'-0" X 7'-0" X 1 3/4"	HM	A	HW-1	-	2	2	4	WINDOW IN DOOR, TEMP, INSUL
2	3'-0" X 7'-0" X 1 3/4"	HM	B	HW-2	2 HR	3	3	-	SET FRAME ON 6" CURB
3	3'-0" X 7'-0" X 1 3/4"	SC	B	HW-5	-	1	1	-	WINDOW IN DOOR, TEMP, INSUL
4	3'-0" X 7'-0" X 1 3/4"	SC	B	HW-3	45 MIN	1A	1A	-	
5	3'-0" X 7'-0" X 1 3/4"	SC	B	HW-4	-	1A	1A	-	
6	3'-0" X 7'-0" X 1 3/4"	SC	B	HW-4	-	1A	1A	-	
7	3'-0" X 4'-0" X 1 3/4"	SC	C	HW-3	45 MIN	1	1	-	

THRESHOLDS SHALL BE MAX. 1/2" RAISED AT ALL DOORWAYS
DOOR CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO AN OPENING OF APPROXIMATELY 12 DEGREES.
FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE.
EXTERIOR HINGED DOORS SHALL HAVE MAXIMUM 8.5 LBF (37.8 N)
INTERIOR HINGED DOORS SHALL HAVE MAXIMUM 5.0 LBF (22.2 N)
ALL HARDWARE SHALL BE LEVER TYPE OPERATOR.



DOOR TYPES

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

NOTE:
GLAZING AS SCHEDULED IN SPECIFICATIONS

INTERIOR FINISH SCHEDULE

		FLOOR			BASE			WALLS			TILE HGT.	CEILING			CLG. HGT.	+ SIGN
		V.C.T.	CONC./SEALED CERAMIC TILE	VINYL COVE CERAMIC TILE			GYP BD/LATEX	GYP BD/ENAMEL	CER. TILE WAINSCOT	CER. TILE FULL HT		EXP STRUCT/PAINT	GYP BD/ENAMEL	EXP STRUCT		SIGN TEXT FOR DOORS SHALL MATCH ROOM NAME
ROOM NAME	RM. NO.															REMARKS
FLUID STORAGE & EQUIPMENT	101	●					●				-	●			-	
OFFICE	102	●		●			●				-	●			-	VINYL FACED BATT INSUL @ CEILING
VENDING	103	●		●			●				-	●			-	
MEN	104		●		●			●	●		4'-0"	●			8'-0"	+ INCLUDE H.C. SYMBOL
WOMEN	105		●		●			●	●		4'-0"	●			8'-0"	+ INCLUDE H.C. SYMBOL
JANITOR	106	●	●	●			●	●	●		8'-0"	●			8'-0"	+ INCLUDE H.C. SYMBOL
MECHANICAL	201								*		-		●		-	* TAPE AND BED JOINTS

KEYED NOTES

- R-13 BATT INSULATION WHERE SHOWN
- 5/8" GYP SHEATHING
- 3 5/8" METAL STUDS @ 16" O.C.
- HOLLOW METAL FRAME
- DOOR AS SCHEDULED
- 3 5/8" METAL STUDS
- EXISTING STRUCTURE
- EXP BOLT ANCHOR
- CASING BEAD & SEALANT ALL AROUND
- 3/8" STUCCO ON 15# FELTS ON GYP BD SHEATHING
- 5/8" GLAZING STOP (METAL)
- 1" INSULATED GLAZING IN HOLLOW METAL FRAME
- 6" THRESHOLD
- DOOR SWEEP
- WINDOW STOOL, PL LAM
- SEALANT & FLASHING
- GROUT FRAME FULL
- 5/8" GYP BD
- LOAD BEARING STUDS SEE S1
- STRUCTURAL STEEL TUBE

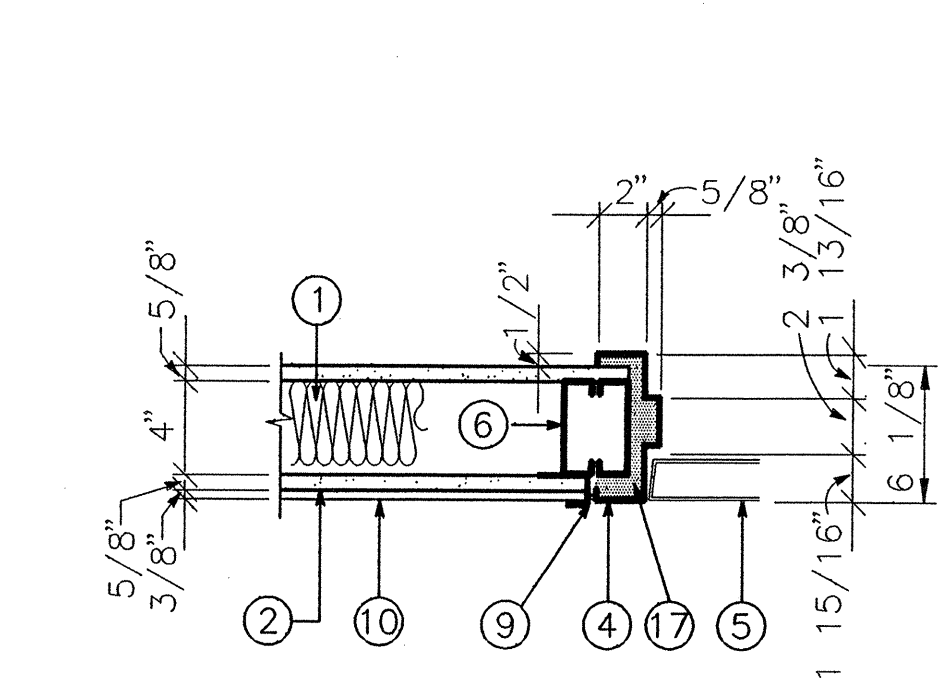
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FIELD	DATE	NO.	BY	NO.	BY	NO.	BY
REVISION	DATE	NO.	BY	NO.	BY	NO.	BY
REVISION	DATE	NO.	BY	NO.	BY	NO.	BY
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REVISION	DATE	NO.	BY	NO.	BY	NO.	BY
REVISION	DATE	NO.	BY	NO.	BY	NO.	BY
REVISION	DATE	NO.	BY	NO.	BY	NO.	BY



REVISIONS		DESIGN	
NO.	DATE	NO.	DATE
1		1	
2		2	
3		3	
4		4	
5		5	
6		6	
7		7	
8		8	
9		9	
10		10	
11		11	
12		12	
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19		19	
20		20	



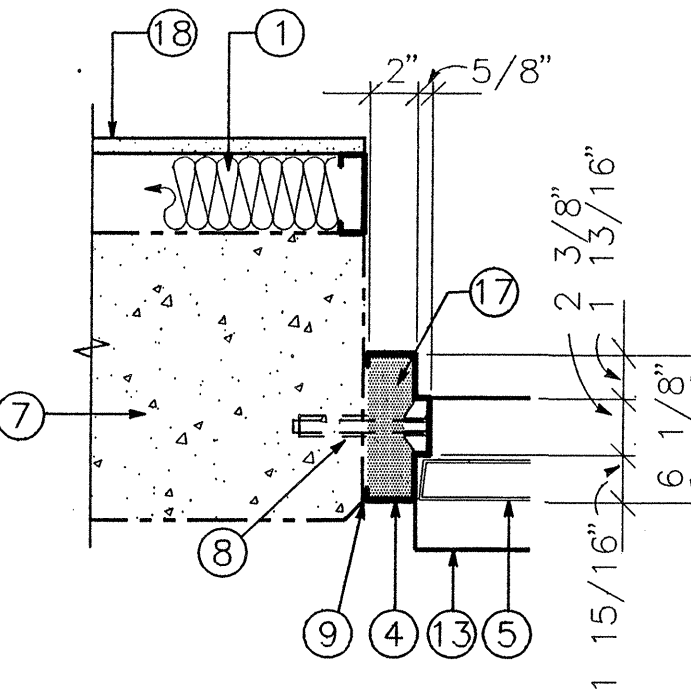
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: FOURTH STREET FUELING FACILITY DOOR AND ROOM FINISH SCHEDULES					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair					
Trans. Dev.					
Utility Dev.					
PROJECT NO.	4309.90	MAP NO.	H14,J14	SHEET	A5 OF 25



NEW CONSTRUCTION

JAMB (HEAD SIMILAR)

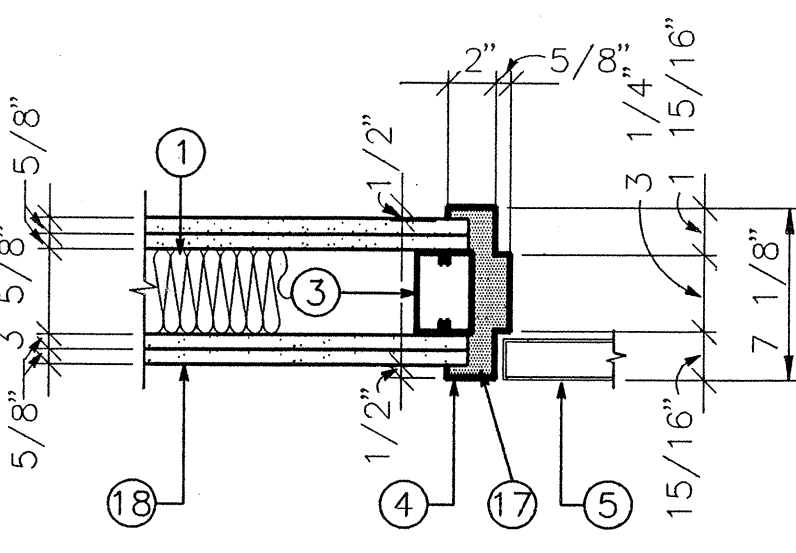
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EXISTING STRUCTURE BELOW

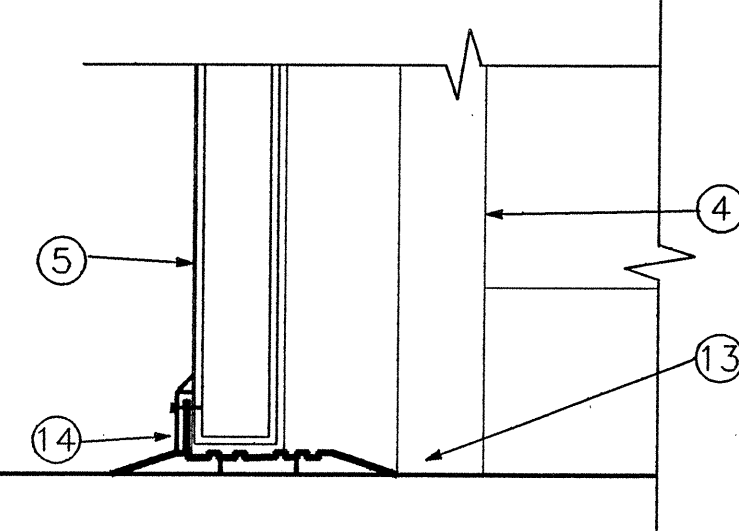
JAMB (HEAD SIMILAR)

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



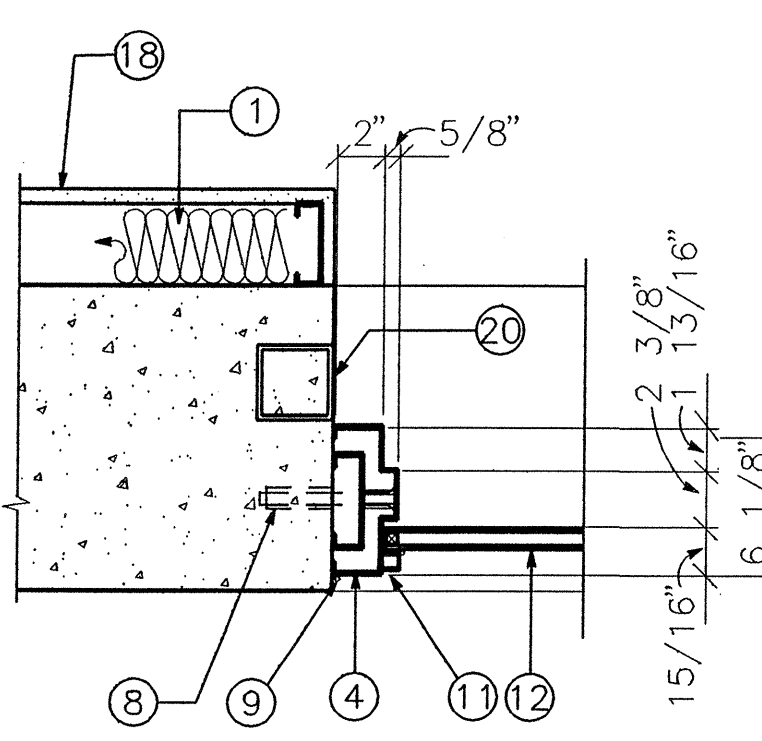
JAMB (HEAD SIM)

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



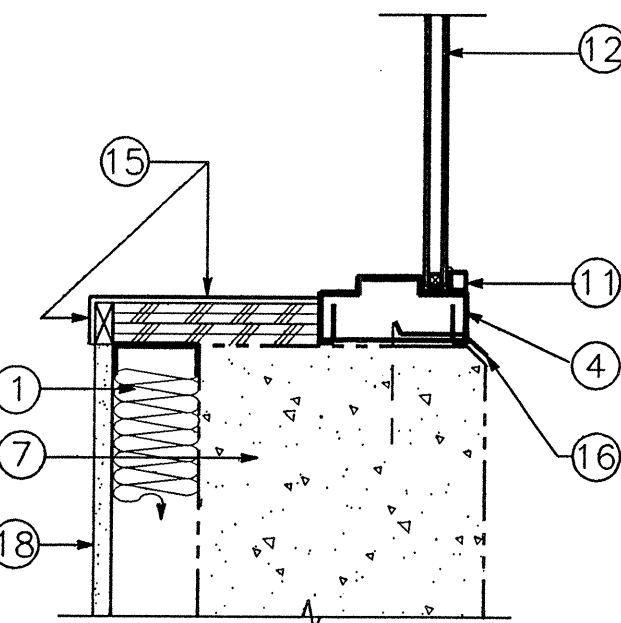
THRESHOLD

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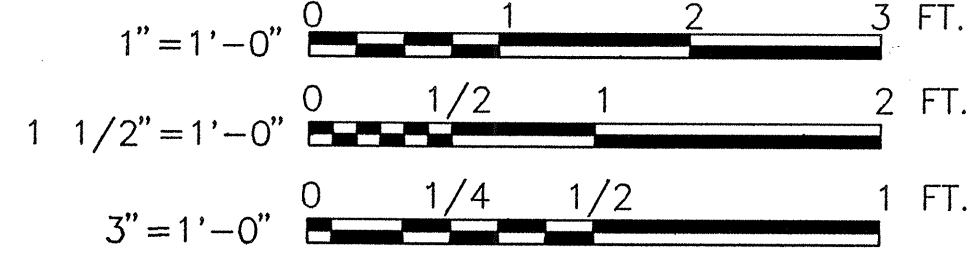
JAMB @ WINDOW

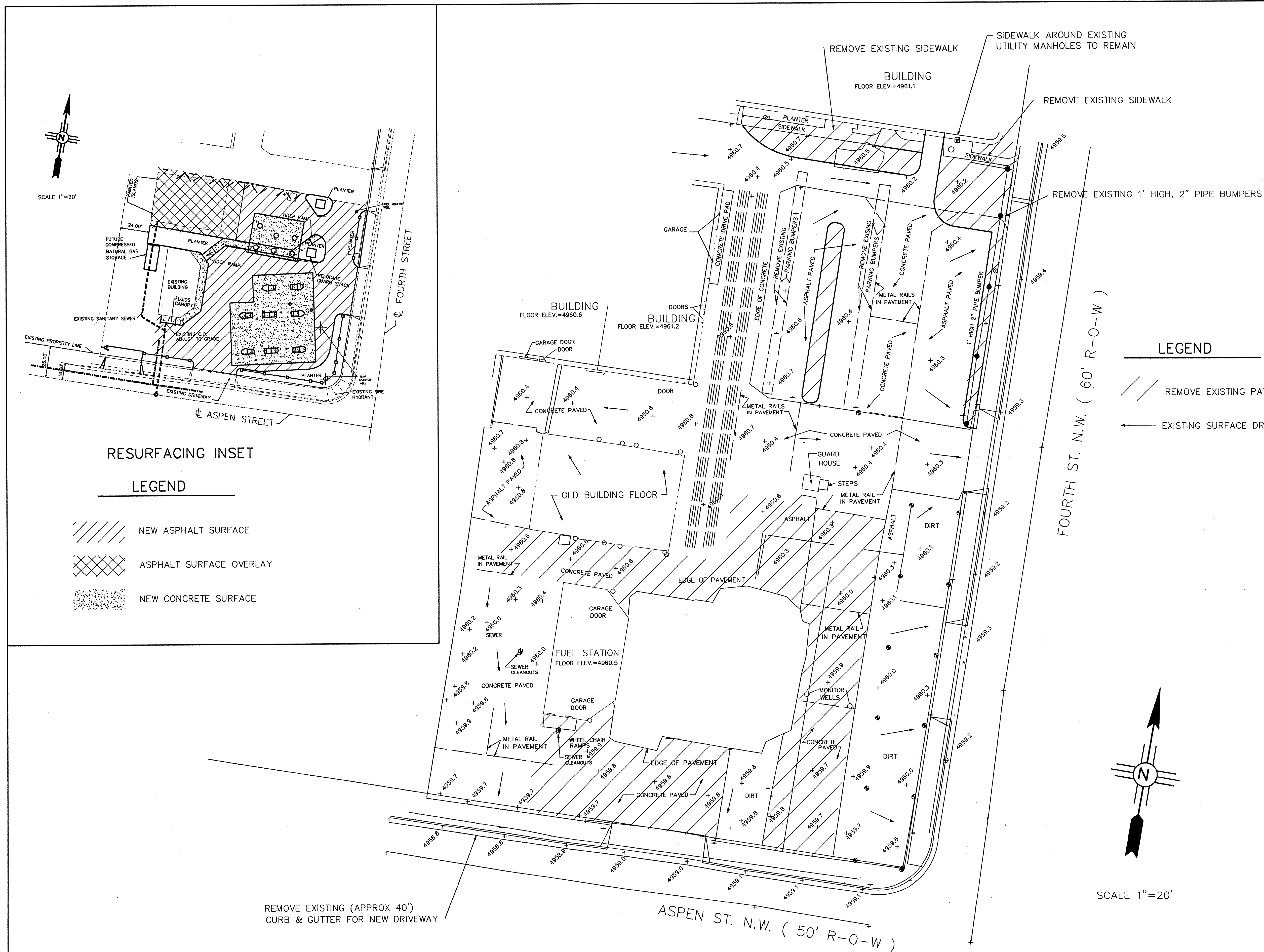
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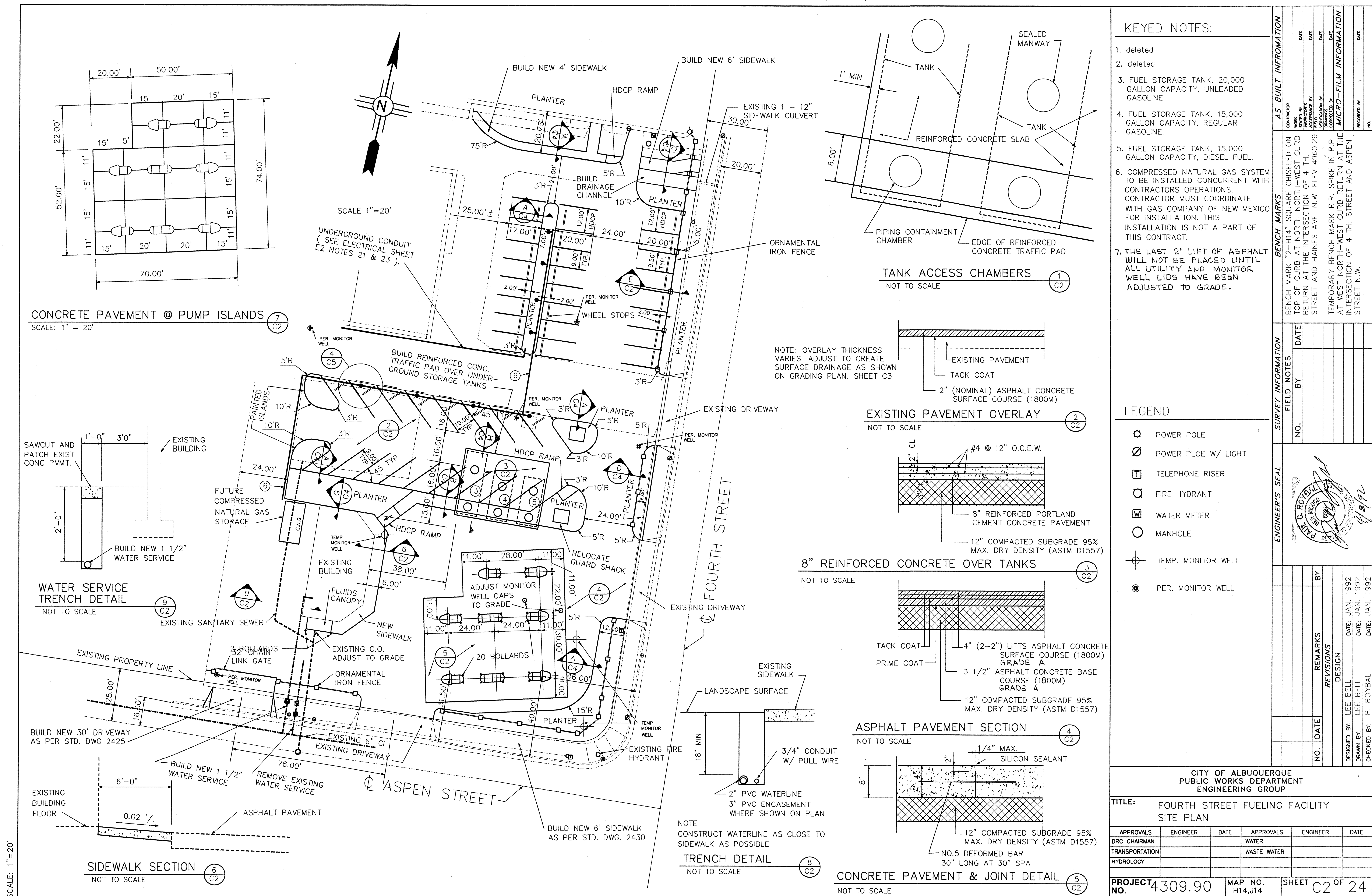
WINDOW @ SILL

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

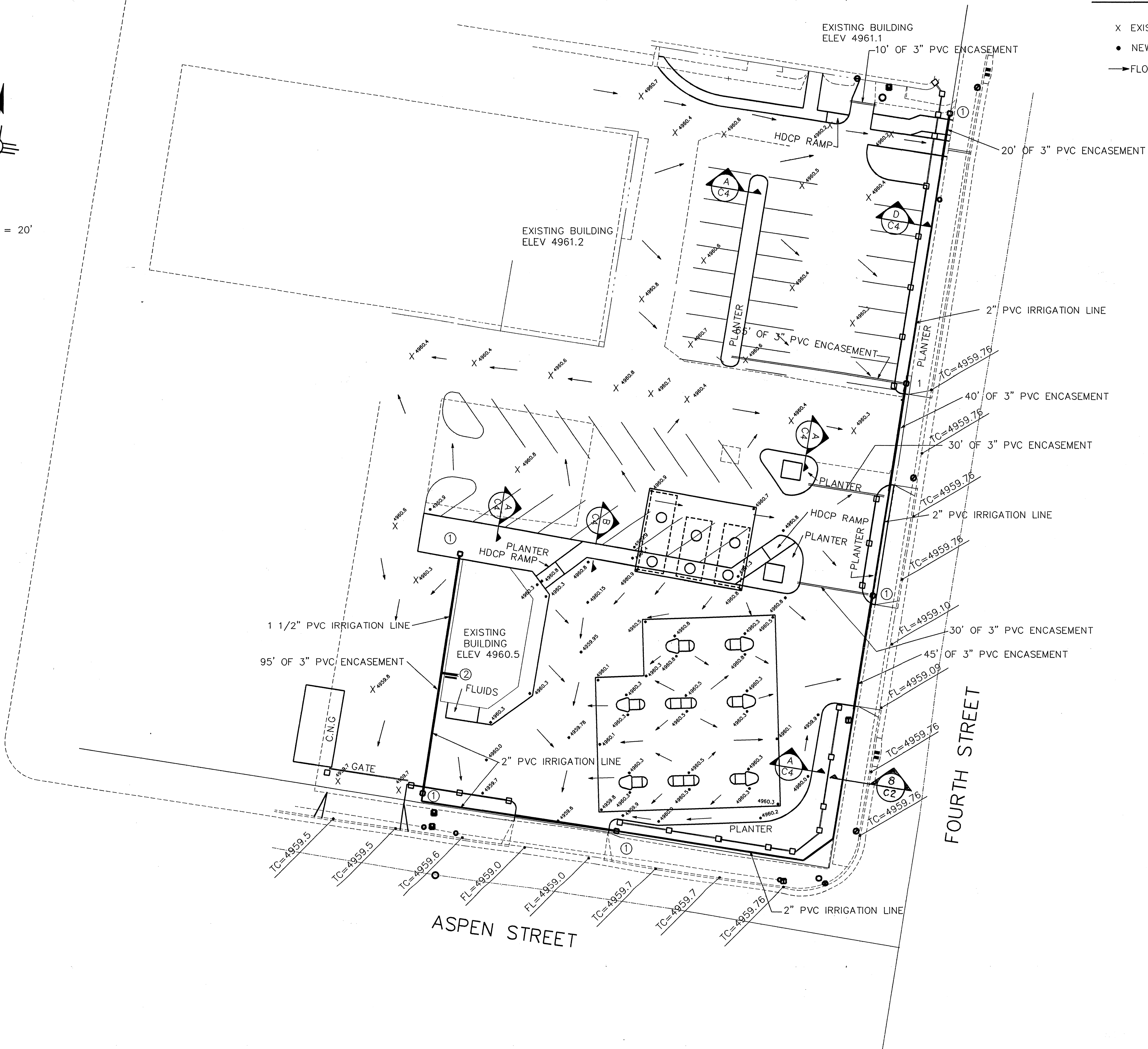
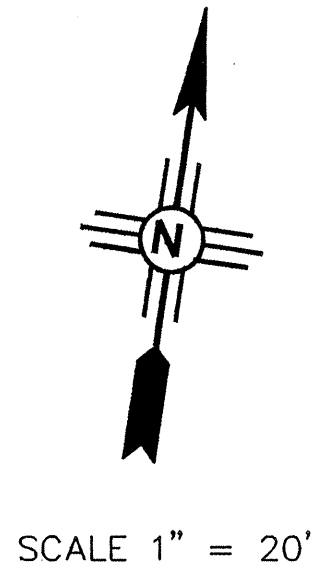


[illegible]

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: FOURTH STREET FUELING FACILITY EXISTING TOPO & DEMOLITION PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair					
Trans. Dev.					
Utility Dev.					
PROJECT NO. 4309.90		MAP NO. H14, J14		SHEET C1 OF 25	



SCALE: 1" = 20'



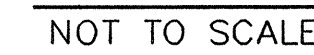
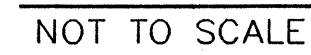
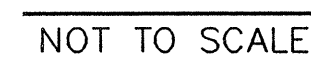
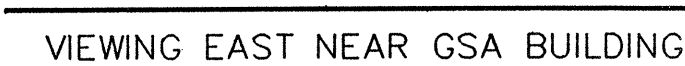
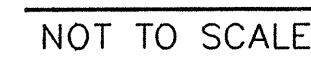
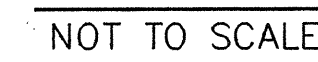
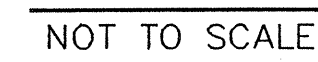
LEGEND

- X EXISTING ELEVATION
- NEW ELEVATION
- FLOW DIRECTION

AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL			REVISIONS		
CONTRACTOR	DATE		NO.	BY	DATE	NO.	BY	DATE	NO.	DATE	BY	NO.	DATE	BY
STARTED BY	DATE													
INSPECTOR'S FIELD	DATE													
APPROVED BY	DATE													
CONTRACTED BY	DATE													
MICRO-FILM INFORMATION														
RECORDED BY	DATE													
NO.														



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: FOURTH STREET FUELING FACILITY GRADING PLAN & IRRIGATION PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair					
Trans. Dev.					
Utility Dev.					
PROJECT NO. 4309.90		MAP NO. H14,J14		SHEET C3 OF 25	

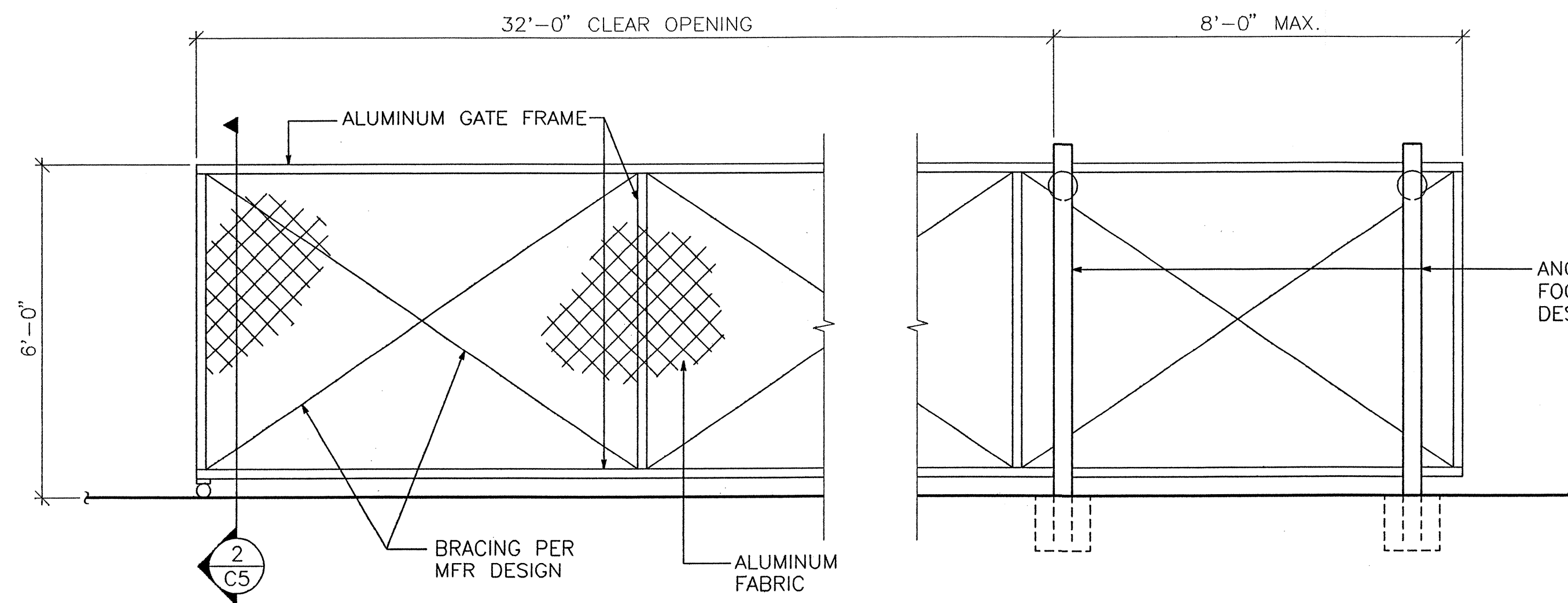


- | ENGINEER'S SEAL | | SURVEY INFORMATION | | BENCH MARKS | | AS BUILT INFORMATION | |
|------------------------|--|--------------------|----|-------------|-------------------|----------------------|------|
| | | FIELD NOTES | | | | | |
| | | NO. | BY | DATE | | | |
| | | | | | WORK | CONTRACTOR | |
| | | | | | DESIGNED BY | | |
| | | | | | INSPECTIONS | | DATE |
| | | | | | ACCEPTANCE BY | | DATE |
| | | | | | FIELD ADJUSTED BY | | DATE |
| | | | | | DRAWINGS | | DATE |
| | | | | | CORRECTED BY | | DATE |
| MICRO-FILM INFORMATION | | | | | | | |
| | | | | | RECORDED BY | | DATE |
| | | | | | NO. | | |
-
- | REVISIONS | | | |
|-----------|------|---------|----|
| NO. | DATE | REMARKS | BY |
| | | | |
| | | | |
| | | | |
| | | | |
- | DESIGN | |
|-----------------------|-----------------|
| DESIGNED BY: LEE BELL | DATE: JAN. 1992 |
| DRAWN BY: LEE BELL | DATE: JAN. 1992 |
| CHECKED BY: P. ROYBAL | DATE: JAN. 1992 |

PROJECT NO.	4309.90	MAP NO. H14,J14	SHEET C4 ^{OF} 25
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TIME: 04-02-92 11:31:30

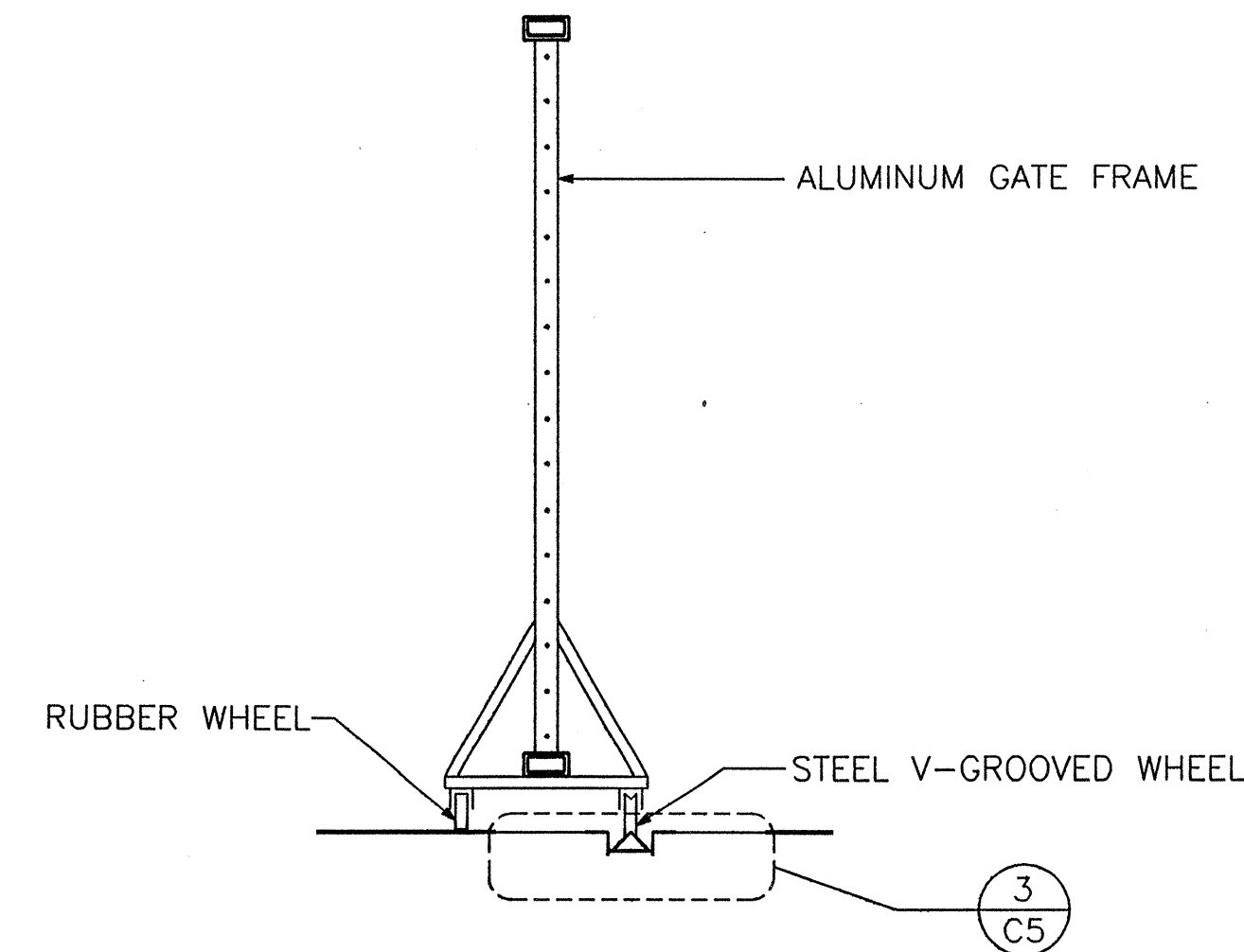
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ELEVATION

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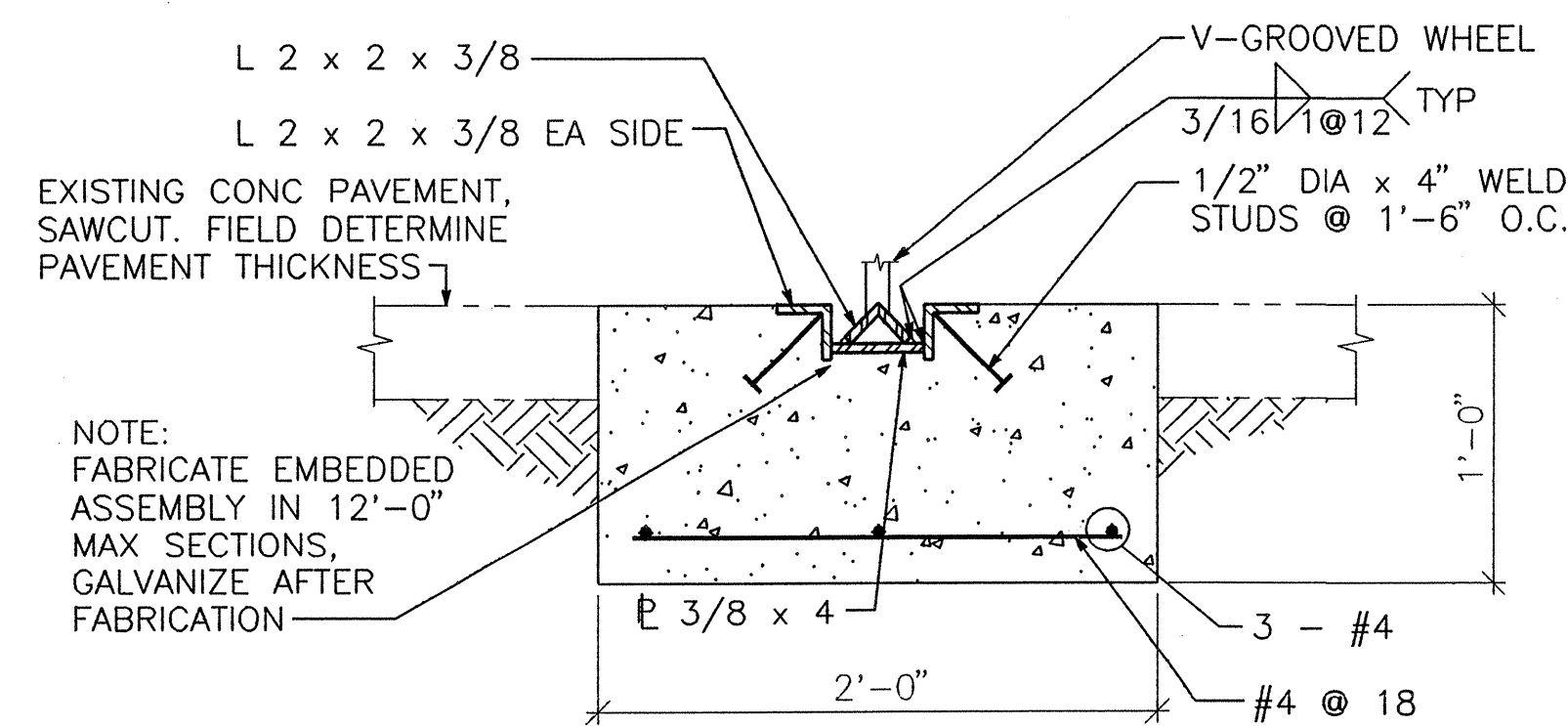
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C5



SECTION

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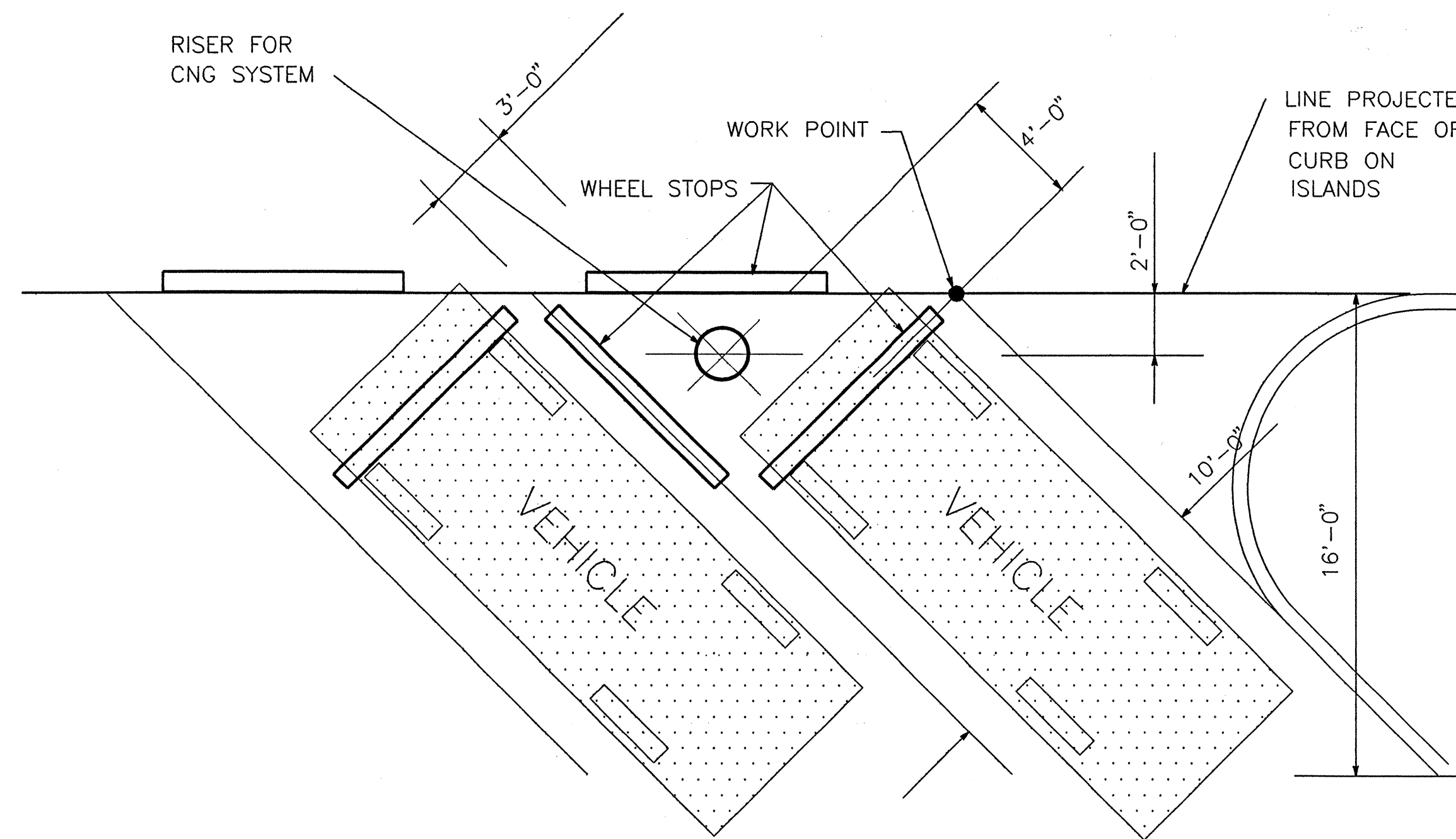
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C5



DETAIL

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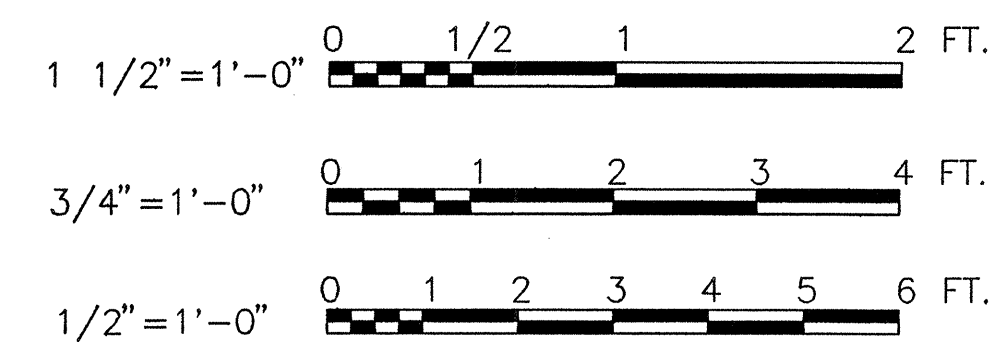
3
C5



WHEEL STOP LAYOUT

NOT TO SCALE

4
C5



H&N
HOLMES & NARVER, INC.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: FOURTH STREET FUELING FACILITY
SLIDE GATE DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair					
Trans. Dev.					
Utility Dev.					

PROJECT NO. 4309.90 MAP NO. H14,J14 SHEET C5 OF 25

ENGINEER'S SEAL			FIELD NOTES			BENCH MARKS			AS BUILT INFORMATION		
			NO.	BY	DATE						
								</			

TIME: 03-17-92 09:13:14

DWG: M:\CAD\2486.03\ME1

HN

LOAD SUMMARY																				
PANEL DESIGN.	LIGHTING KVA			RECEPTACLE KVA			HEATING KVA			A/C KVA *			MECHANICAL KVA			DISPENSERS KVA			TOTAL	TOTAL
	CONN.	DIV %	DEMAND	CONN.	DIV %	DEMAND	CONN.	DIV %	DEMAND	CONN.	DIV %	DEMAND	CONN.	DIV %	DEMAND	CONN.	DIV %	DEMAND	CONN.	DEMAND
PANEL A	7.7	100	7.7	8.1	100	8.1	13.9	100	13.9	6.1	100	6.1	18.9	100	18.9	—	—	—	48.6	48.6
PANEL B	—	—	—	—	—	—	—	—	—	—	—	—	6.9	100	6.9	6.2	60	3.7	13.1	10.6

TOTAL BUILDING LOADS: 61.7 KVA CONNECTED; 59.2 KVA DEMAND; 74 KVA DESIGN W/FUTURE
* NOT INCLUDED IN TOTAL LOADS BECAUSE HEATING LOAD IS LARGER.

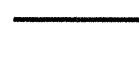
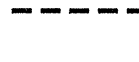
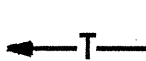
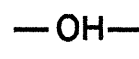
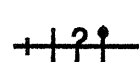
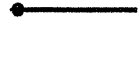
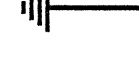
MFR. _____ TYPE <u>M.L.O.</u> BUS <u>225 AMP</u>		PANEL NO. <u>A</u> SERVICE <u>120/208-3ø, 4W</u>						LOCATION <u>VENDING</u> MOUNTING <u>SURFACE</u> DWG. NO. <u>E3</u>				
DESCRIPTION	WATTS			BKR	CKT NO.	Ø	CKT NO.	BKR	WATTS			DESCRIPTION
	ØA	ØB	ØC						ØA	ØB	ØC	
LTG. OFFICE & FLUID STOR.	792			20	1	A	2	20	532			FURNACE GF1
LTG. VENDING, TOLIETS, JAN.		1512		20	3	B	4	20		500		RECP., E.W.C.
LTG. EXTER. OFFICE			710	20	5	C	6	20			1080	RECP., VENDING, TOLIETS, JAN.
LTGS., CANOPY	750			20	7	A	8	20	1500			VENDING
LTGS., CANOPY		1500		20	9	B	10	20		1500		VENDING
LTGS., POLES			1250	20	11	C	12	20			1500	VENDING
EXHAUST FANS, TOLIETS	300			20	13	A	14	20	750			ELEC. HTR. EWH1
RECP., EXTERIOR		540		20	15	B	16	2		750		
A.C. UNIT			928	20	17	C	18	20			750	ELEC. HTR. EWH1
FLD,TLS	200			20	19	A	20	2	750			
INFRA-RED HTR. IR-2		2000		20	21	B	22	20		500		ELEC. HTR. EWH2
			2000	2	23	C	24	2			500	
INFRA-RED HTR. IR-2	2000			20	25	A	26	60	5720			
		2000		2	27	B	28			5720		PANEL "C"
AIR DRYER RAD			667	20	29	C	30	3			3820	
		2904		40	31	A	32	20	200			CARD READER, FLUID
AIR COMP. SAC		2904		33	B	34	20		720			RECP., OFFICE
			2904	3	35	C	36	20		540		RECP., OFFICE
LTG. EXTER. FENCE	1200			20	37	A	38	20	720			RECP., OFFICE
IRRIG. CONTROLS		200		30	39	B	40	20				SPARE
EXHAUST FAN EF-2			200	20	41	C	42	20				SPARE
TOTALS												
WATTS: BUS A <u>22,638</u> MAIN BREAKER <u>M.L.O.</u>												
BUS B <u>24,384</u> LOCATION <u>TOP</u>												
BUS C <u>21,171</u> FEEDER SIZE <u>4 #4/0 & 1 #4</u> GND.-2 1/2" C.												
TOTAL <u>68,193</u> SOURCE <u>BUILDING "B"</u>												
REMARKS: SECTION ONE OF TWO SECTION PANELBOARD												

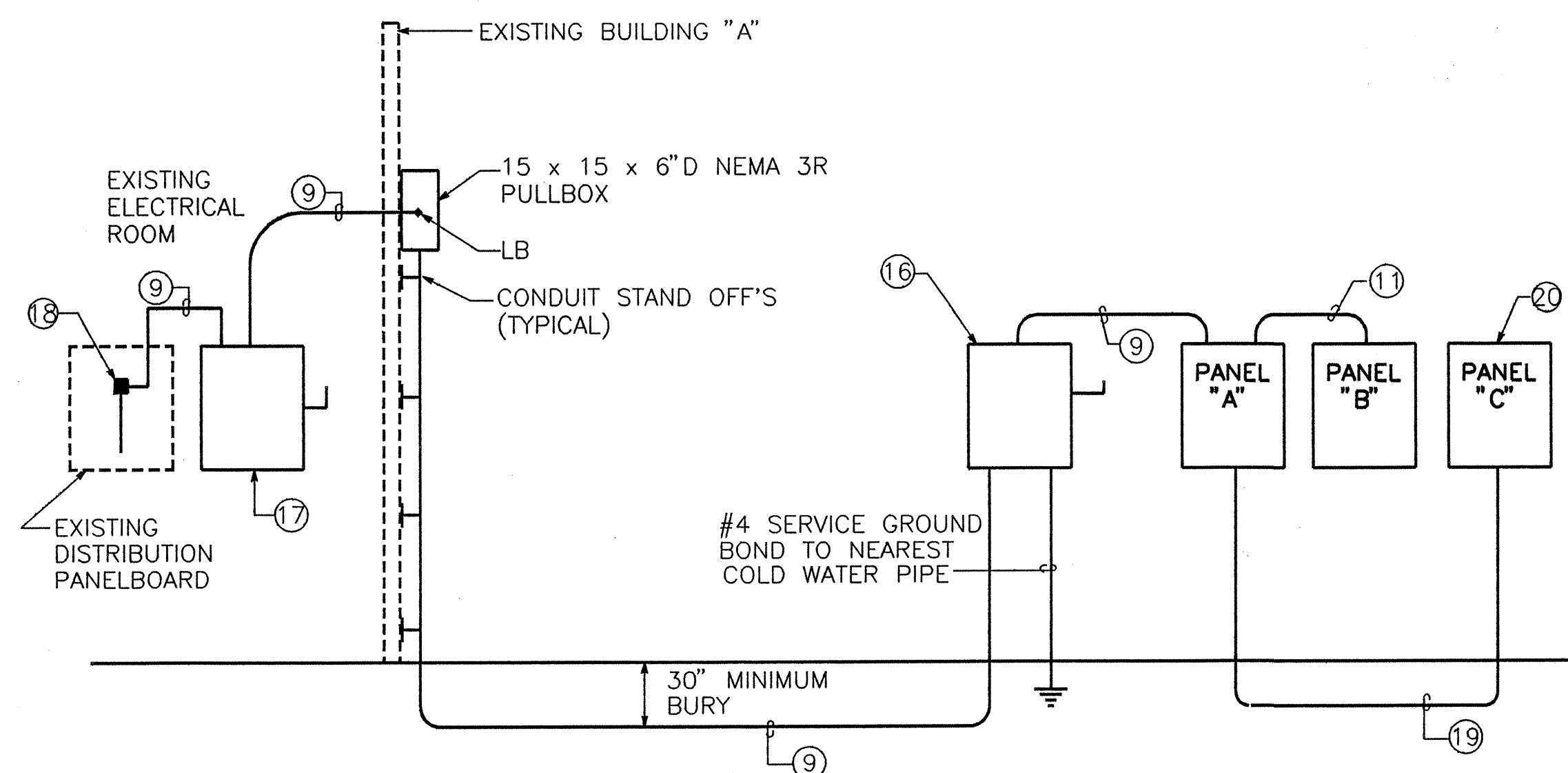
MFR. _____ TYPE <u>M.L.O.</u> BUS <u>225 AMP</u>		PANEL NO. <u>A</u> SERVICE <u>120/208-3Ø, 4W</u>		LOCATION <u>VENDING</u> MOUNTING <u>SURFACE</u> DWG. NO. <u>E3</u>								
DESCRIPTION	WATTS			BKR	CKT NO.	Ø	CKT NO.	BKR	WATTS			DESCRIPTION
	ØA	ØB	ØC						ØA	ØB	ØC	
SPARE				20	43	A	44	50	4516			
SPARE				20	45	B	46			4038		PANEL "B"
SPARE				20	47	C	48	3			4522	
SPARE				20	49	A	50					SPACE
SPARE				20	51	B	52					SPACE
SPARE				20	53	C	54					SPACE
SPACE					55	A	56					SPACE
SPACE					57	B	58					SPACE
SPACE					59	C	60					SPACE
TOTALS												
WATTS: BUS A _____ MAIN BREAKER _____												
BUS B _____ LOCATION _____												
BUS C _____ FEEDER SIZE _____												
TOTAL _____ SOURCE _____												
REMARKS: SECTION TWO OF TWO SECTION PANELBOARD												

MFR. _____ TYPE <u>M.L.O.</u> BUS <u>100 AMP</u>			PANEL NO. <u>C</u> SERVICE <u>120/208-3Ø, 4W</u>										LOCATION <u>EX. GUARD HOUSE</u> MOUNTING <u>SURFACE</u> DWG. NO. <u>E2</u>		
DESCRIPTION	WATTS			BKR	CKT NO.	Ø	CKT NO.	BKR	WATTS			DESCRIPTION			
	ØA	ØB	ØC						ØA	ØB	ØC				
VAPOR RECOVERY BLDG.	1200			25	1	A	2	50	2600			GUARD HOUSE			
		1200		2	3	B	4	2		2600					
VAPOR RECOVERY BLDG.			1920	20	5	C	6	20			1920	GUARD HOUSE			
VAPOR RECOVERY BLDG.	1920			20	7	A	8	20				SPARE			
VAPOR RECOVERY BLDG.		1920		20	9	B	10	20				SPARE			
SPARE				20	11	C	12	20				SPARE			
TOTALS															
WATTS: BUS A <u>5720</u> MAIN BREAKER <u>M.L.O.</u>															
BUS B <u>5720</u> LOCATION <u>BOTTOM</u>															
BUS C <u>3820</u> FEEDER SIZE <u>4 #6, 1 #10</u> GND.-1 1/4" C.															
TOTAL <u>15260</u> SOURCE <u>PANEL "A"</u>															
REMARKS: NEMA 3R ENCLOSURE															

LIGHTING FIXTURE SCHEDULE				
TYPE	LAMPS	MOUNTING	DESCRIPTION	
A	2-40W /RS LITE WHITE	PENDANT MOUNTED, +13'-0" AFF TO BOTTOM	1x4 FLUORESCENT, HIGH IMPACT ACRYLIC LENS WITH STAINLESS STEEL LATCH AND LENS STRAP DAY-BRITE # FE-1524-4/120V	
B	4-40W /RS LITE WHITE	PENDANT MOUNTED +9'-0" AFF TO BOTTOM	1x4 FLUORESCENT, WRAPAROUND DAY BRITE # SW182-120V	
C	1-32W, 1-40W CIRCLE LINE	SURFACE CEILING, U.N.O.	16" DIAMETER WHITE DRUM, WITH WHITE TRANSLUCENT ACRYLIC DIFFUSER DURAY # W95-120 WITH PA72	
D	2-20W /TS COOL WHITE	WALL MOUNT ABOVE MIRROR	2' FLUORESCENT WALL BRACKET, 50% UPLIGHT 50% DOWNLIGHT, WITH CLEAR ACRYLIC LENS DAY BRITE # CZX-2222-2-120V	
E	1-100W HPS LU-100/MED COATED	WALL MOUNT ±14'-0" AFF TO TOP ①	WALL BRACKET, ADJUSTABLE CUT OFF BRONZE, ALUMINUM DIE CAST HOUSING, ONE PIECE UV STABLE POLYCARBONATE LENS MOLDCAST #PCL-1-03-10-12-BZ-BLT	
F	1-70W HPS LU-70/MED COATED	SURFACE CANOPY	ONE PIECE DIE CAST ALUMINUM HOUSING, BRONZE, ONE PIECE POLYCARBONATE LENS MOLDCAST #MDL-6-00-70-12	
G	BY MANUFACTURER	SURFACE WALL + +8'-0" AFF TO TOP	COMPACT EMERGENCY LIGHTING UNIT, MAINTENANCE FREE BATTERY, 2 ADJUSTABLE HEADS DUAL-LITE # DL-2	
H	1-150W HPS LU-150/MED COATED	RECESSED CANOPY	NU ART # NACI-HPS-150-R-120V	
J	1 OR 2-250 W HPS LU-250/MED COATED	POST TOP W/ SQUARE 20' POLE	POLE MOUNTED, ADJUSTABLE CUT OFF, ALUMINUM DIE CAST HOUSING, BRONZE, ONE PIECE UV STABLE POLCARBONATE LENS MOLDCAST #PCL-1-09-25-12-BZ-BLT ②	
K	2-40W/RS LITE WHITE	SURFACE CEILING U.N.O.	4' STRIP FLUORESCENT WITH WIRE GUARD WILLIAMS # 7722-120V	
L	1-100W HPS LU-100/MED COATED	POLE MOUNTED W/ SQUARE 4' POLE	POLE MOUNTED, ADJUSTABLE CUT OFF, ALUMINUM DIE CAST HOUSING, BRONZE, ONE PIECE UV STABLE POLCARBONATE LENS MOLDCAST #PCL-1-03-12-BZ-BLT	

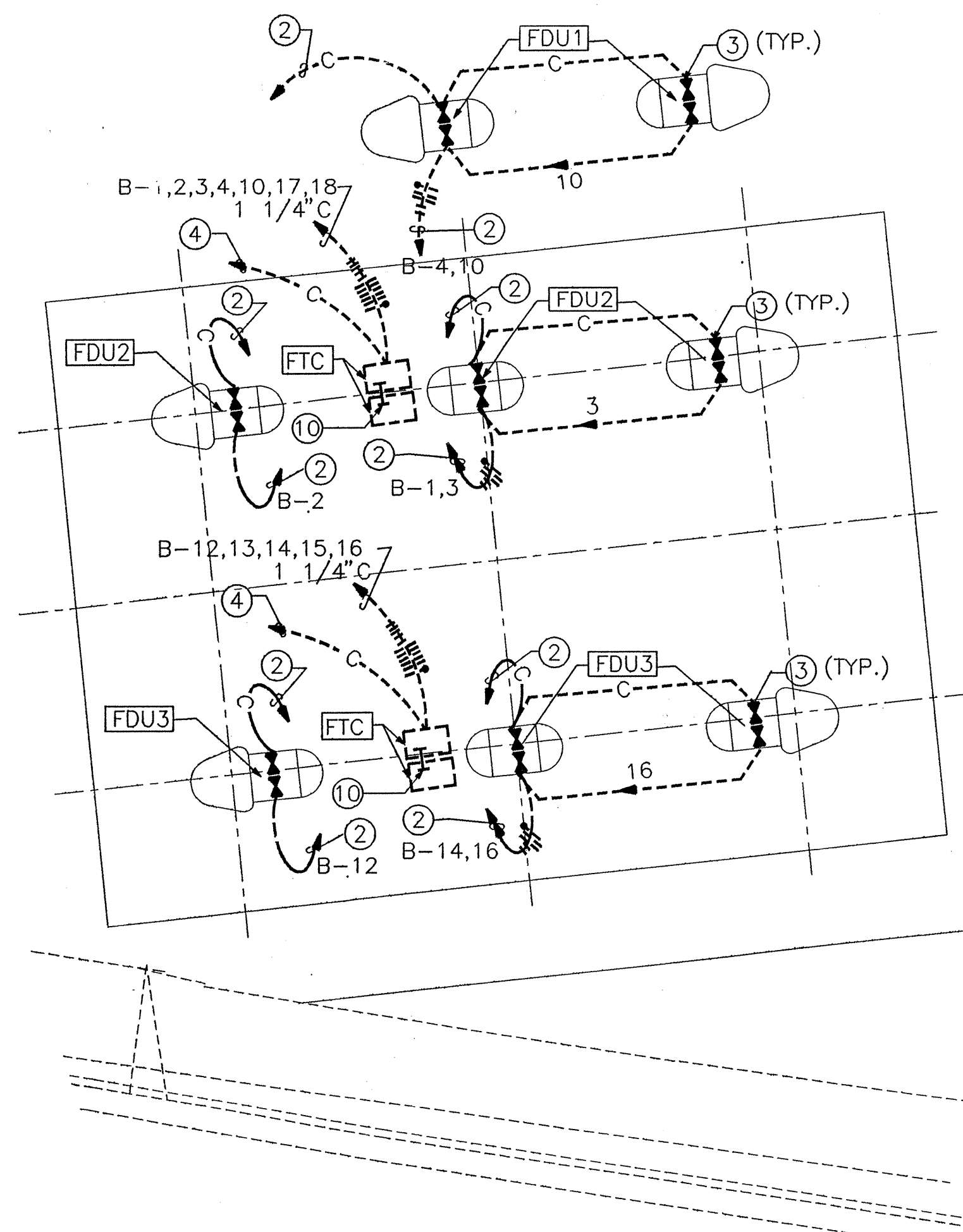
MFR. _____		PANEL NO. _____				B _____		LOCATION OFFICE 102				
TYPE M.C.B. 50A-3P W/SHUNT TRIP		SERVICE 120/208-3ø, 4W				MOUNTING SURFACE _____						
BUS 100 AMP						DWG. NO. E3						
DESCRIPTION	WATTS			BKR	CKT NO.	ø	CKT NO.	BKR	WATTS			DESCRIPTION
	øA	øB	øC						øA	øB	øC	
DISPENSERS	672			20	1	A	2	20	672			DISPENSERS
DISPENSERS		672		20	3	B	4	20	672			DISPENSERS
FSP1			1150	20	5	C	6	20			1150	FSP3
	1150			2	7	A	8	2	1150			
FSP2		1150		20	9	B	10	20	672			DISPENSER
		1150		2	11	C	12	20		672		DISPENSER
FCT	200			20	13	A	14	20	672			DISPENSER
FCT		200		20	15	B	16	20	672			DISPENSER
FCT			200	20	17	C	18	20			200	FCT
SPARE				20	19	A	20	20				SPARE
SPARE				20	21	B	22	20				SPARE
SPARE				20	23	C	24	20				SPARE
SPACE					25	A	26					SPACE
SPACE					27	B	28					SPACE
SPACE					29	C	30					SPACE
TOTALS												
WATTS:	BUS A 4516			MAIN BREAKER M.L.O.			LOCATION TOP					
	BUS B 4038			LOCATION FEEDER SIZE 4#6, 1#10- 1 1/4" C			SOURCE PANEL A					
	BUS C 4522											
	TOTAL 13076											
REMARKS:	PROVIDE NEUTRAL SWITCHED BREAKER APPROVED FOR FUEL DISPENSING FOR ALL SINGLE POLE CIRCUIT BREAKERS											

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	CEILING MOUNTED FIXTURE. LETTER DENOTES FIXTURE TYPE (TYPICAL)
	WALL MOUNTED FIXTURE
	POST TOP FIXTURE
	RECESSED H.I.D. FIXTURE
	FLUORESCENT FIXTURE
\$	WALL SWITCH, SPST, 46" TO CENTER ABOVE FLOOR UNLESS NOTED. LETTER DENOTES CONTROL
\$ H-O-A	KEYED HAND-OFF-AUTO SWITCH, 46" TO CENTER ABOVE FLOOR.
St	FRACTIONAL HP DISCONNECT WITH TERMINAL OVERLOAD PROTECTION
	DUPLEX OUTLET, 20" TO CENTER ABOVE FLOOR UNLESS NOTED OTHERWISE
	MOTOR OUTLET AND SIZE IN HP
	THERMOSTAT, 46" TO CENTER ABOVE FLOOR(M)
LC	LIGHTING CONTACTOR AS NOTED OR REQUIRED
	JUNCTION BOX AS NOTED OR REQUIRED
	SOLENOID VALVE (M)
R	CONTROL RELAY AS NOTED
	COMBINATION MOTOR CONTROLLER/DISCONNECT
	DISCONNECT SWITCH
	PANELBOARD, 120/208V-3φ-4W
	TERMINAL CABINET, SIZE AS NOTED
	RACEWAY, CONCEALED IN WALLS OR CEILING
	RACEWAY, BELOW GRADE
	RACEWAY EXPOSED
	TELEPHONE RACEWAY, 3/4" MINIMUM WITH PULLSTRING
	STUB AND CAP
	HOMERUN TO PANELBOARD
	TELEPHONE HOMERUN TO TERMINAL CABINET, 1" CONDUIT UNLESS NOTED OTHERWISE
	OVERHEAD CONDUCTORS
	NEUTRAL, HOT, SWITCH AND GROUND CONDUCTORS, RESPECTIVELY
	CONDUIT SEAL-OFF FITTINGS
	CONDUIT STUB-UP
	GROUND CONNECTION
	TELEPHONE OUTLET, WALL, 20" TO CENTER A.F.F.
W 	FLUSH WALL MOUNT TELEPHONE OUTLET, 46" TO CENTER A.F.F.
	PUSHBUTTON STATION, 46" TO CENTER A.F.F.
	6" WEATHERPROOF BELL
	ROTATING BEACON, WEATHERPROOF,
WP	WEATHERPROOF
EH1	MECHANICAL EQUIPMENT REFERENCE
①	NOTE REFERENCE
EX	EXISTING
(M)	FURNISHED BY MECHANICAL
U.N.O.	UNLESS NOTED OTHERWISE
R	REMOVE
A.F.F.	ABOVE FINISHED FLOOR
N.T.S.	NOT TO SCALE



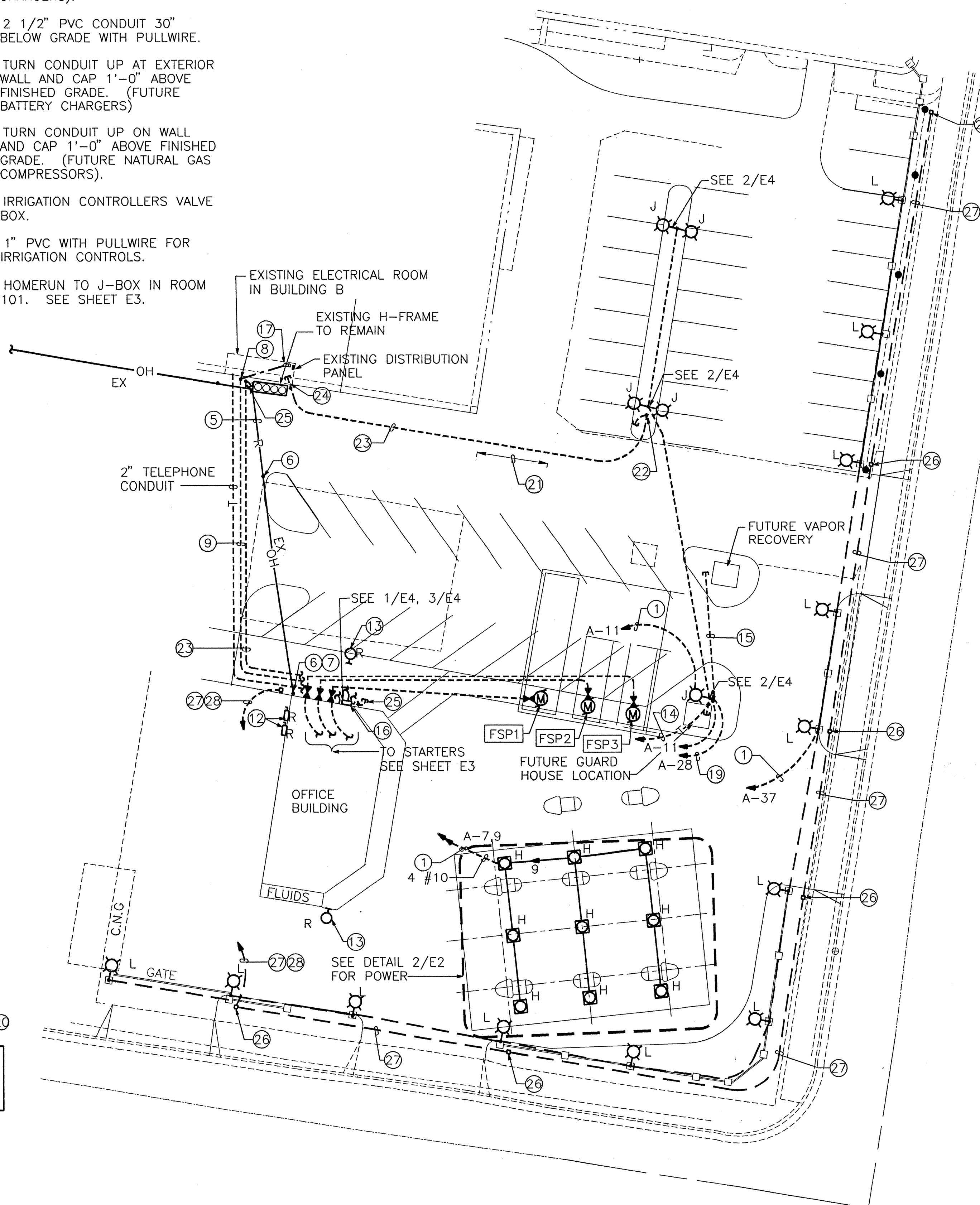
POWER RISER DIAGRAM

SCALE: N.T.S.

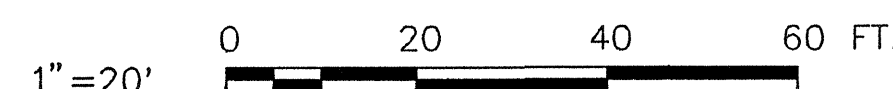


FUEL DISPENSER - POWER

- KEYED NOTES (CONT'D)**
-
22. STUB CONDUIT UP ADJACENT TO LIGHT POLE FOUNDATION AND CAP. (FUTURE BATTERY CHARGERS).
23. 2 1/2" PVC CONDUIT 30" BELOW GRADE WITH PULLWIRE.
24. TURN CONDUIT UP AT EXTERIOR WALL AND CAP 1'-0" ABOVE FINISHED GRADE. (FUTURE BATTERY CHARGERS)
25. TURN CONDUIT UP ON WALL AND CAP 1'-0" ABOVE FINISHED GRADE. (FUTURE NATURAL GAS COMPRESSORS).
26. IRRIGATION CONTROLLERS VALVE BOX.
27. 1" PVC WITH PULLWIRE FOR IRRIGATION CONTROLS.
28. HOMERUN TO J-BOX IN ROOM 101. SEE SHEET E3.



SITE PLAN - ELECTRICAL
SCALE: 1"=20'-0"



- KEYED NOTES**

 1. EXTEND HOMERUN THRU LIGHTING CONTACTOR TO CIRCUIT AS INDICATED ON DRAWINGS
 2. HOMERUN CONDUIT TO FCT AND TERMINATE WITH SEAL-OFF.
 3. PROVIDE SEAL OFF FITTINGS ON BOTH ENDS FOR EACH POWER AND CONTROL CONDUIT SEE 3/E4.
 4. HOMERUN 1-1 1/4" CONDUIT (RGS) TO CENTRAL PROCESSOR. SEE SHEET E3.
 5. REMOVE EXISTING 3 CONDUCTOR OVERHEAD SERVICE.
 6. REMOVE EXISTING POLE.
 7. REMOVE EXISTING SERVICE ENTRANCE WEATHERHEAD.
 8. 2 1/2" RGS RISER WITH JUNCTION BOX AT 10'-0" AFF. PROVIDE CONDUIT STAND-OFFS AS REQUIRED.
 9. 4 #4/0 & 4 #4 GND-2 1/2" RGS CONDUIT.
 10. 1" CHASE NIPPLE BETWEEN FTC'S.
 11. 4 #2 & 1 #6 GND-1 1/4"C.
 12. REMOVE EXISTING DISCONNECT SWITCH AND ASSOCIATED CONDUIT.
 13. REMOVE EXISTING WALL BRACKET FIXTURE AND ASSOCIATED CONDUIT. RETURN TO OWNER.
 14. EXTEND 1" RGS CONDUIT WITH PULLSTRING TO TELEPHONE TERMINAL CABINET IN OFFICE BUILDING.
 15. STUB 1 1/4" RGS CONDUIT WITH PULLSTRING FROM LOAD CENTER "C" TO PLANTER AREA AS INDICATED FOR FUTURE VAPOR RECOVERY SYSTEM.
 16. 200A-3P,250V,4W, FUSIBLE, HEAVY DUTY, DISCONNECT SWITCH, NEMA 3R ENCLOSURE. PROVIDE 200A FUSETRONS.
 17. 200A-3P,250V,4W, FUSIBLE, HEAVY DUTY, DISCONNECT SWITCH, NEMA 1 ENCLOSURE. PROVIDE 200A FUSETRONS. COORDINATE LOCATION IN ELECTRICAL ROOM WITH BUILDING DISTRIBUTION PANEL. MOUNT WITHIN 10 FEET OF DISTRIBUTION PANEL
 18. TAP EXISTING BUS IN DISTRIBUTION PANEL. PROVIDE LUGS AS REQUIRED.
 19. 4 #6 & 1 #10 GND-1 1/4" C.
 20. LOAD CENTER "C". IN A NEMA 3R ENCLOSURE. SURFACE MOUNT TO LIGHTING STANDARD. PROVIDE REQUIRED SUPPORT.
 21. FIELD COORDINATE LOCATION OF TRENCH AND CONDUIT TO CLEAR RAILS. SEE SHEET C1.

GENERAL NOTES

1. SEE SHEET E1 FOR ELECTRICAL LEGEND, FIXTURE SCHEDULE AND PANEL SCHEDULE.
2. USE #10 CONDUCTORS FOR ALL EXTERIOR CIRCUITS U.N.O.



H&N
HOLMES & NARVER, INC.

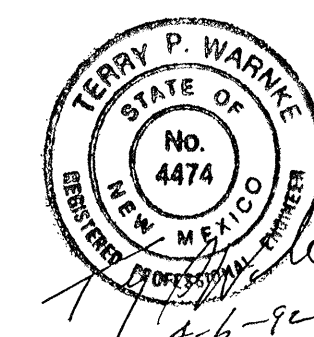
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: FOURTH STREET FUELING FACILITY
SITE PLAN - ELECTRICAL

	APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair						
Trans. Dev.						
Utility Dev.						

PROJECT NO.	4309.90	MAP NO.	H14.J14	SHEET	E2	OF	25
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SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
FIELD NOTES					
NO.	BY	DATE			
				CONTRACTOR	
				WORK STARTED BY	DATE
				INSPECTOR'S	DATE
				ACCEPTANCE BY	DATE
				VERIFICATION BY	DATE
				DRAWINGS	
				REVISIONS BY	DATE
				<i>MICRO-FILM INFORMATION</i>	
				RECORDED BY	DATE

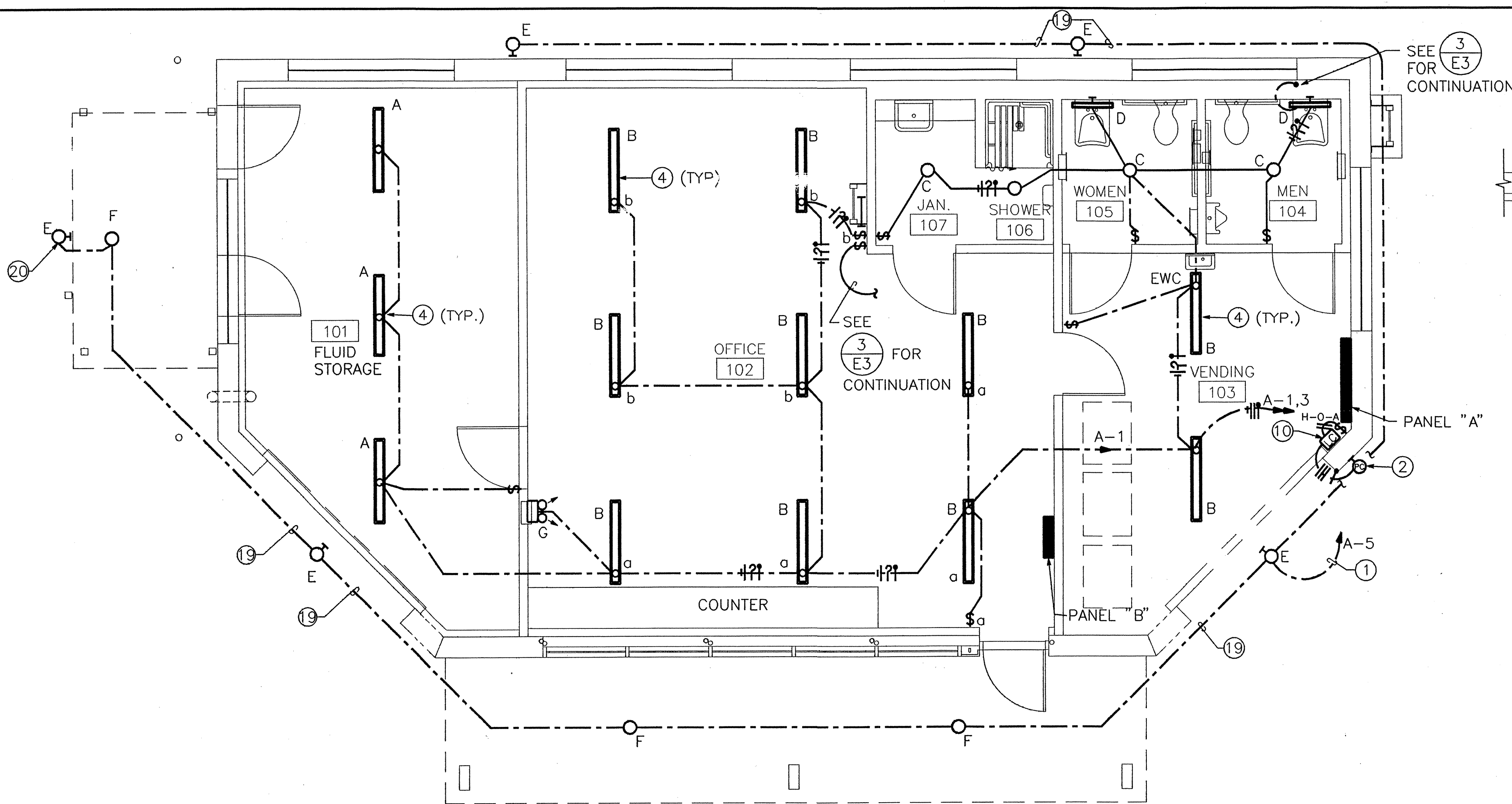
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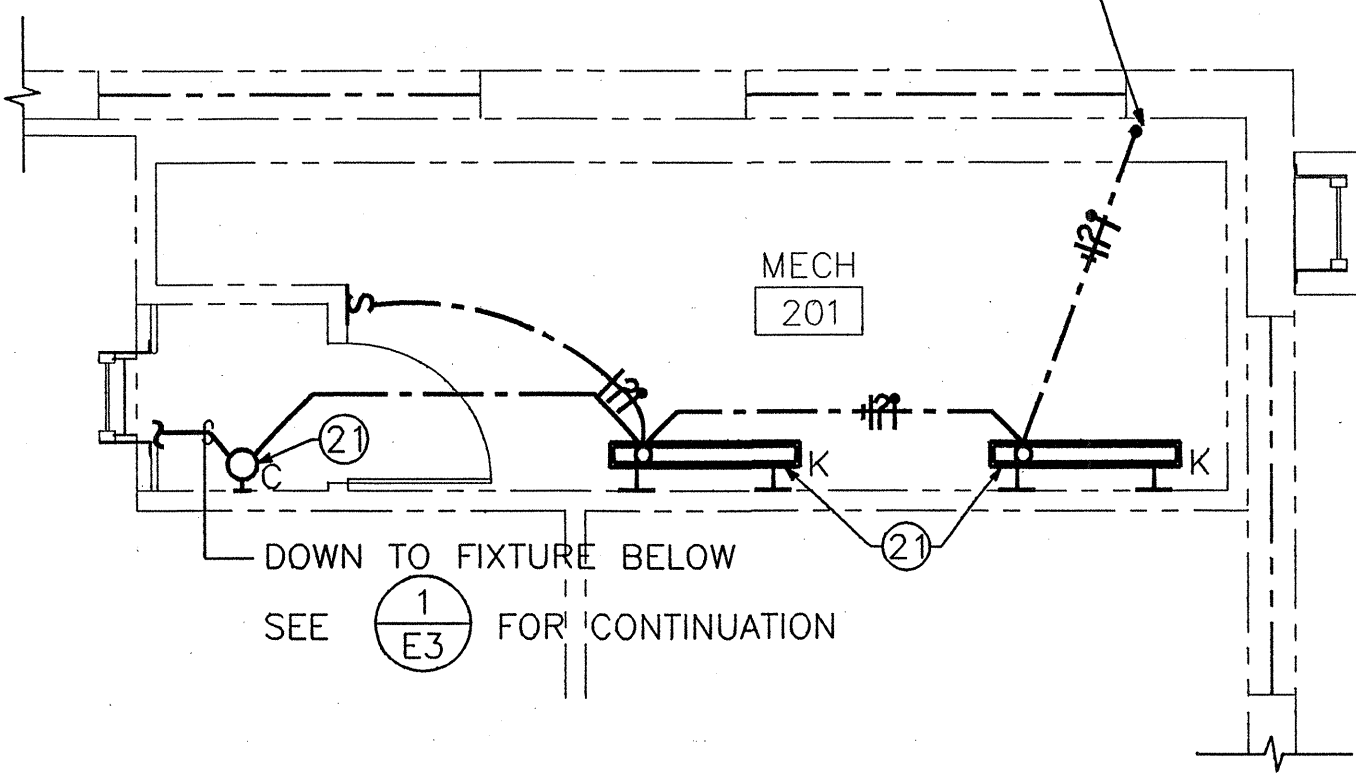
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SCALE: 1/4"=1'-0"



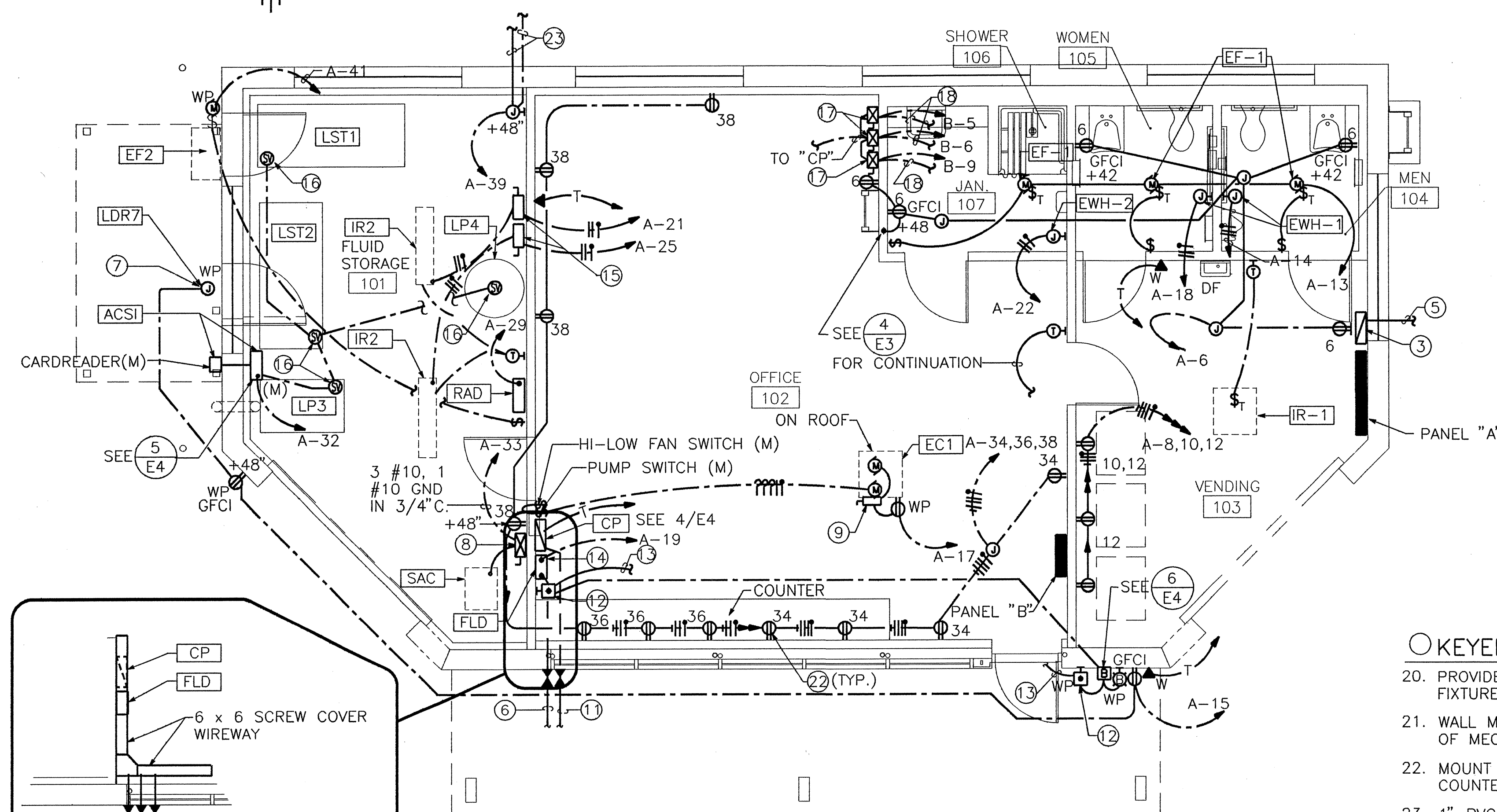
FLOOR PLAN-LIGHTING
SCALE: 1/4"=1'-0"

1
E3



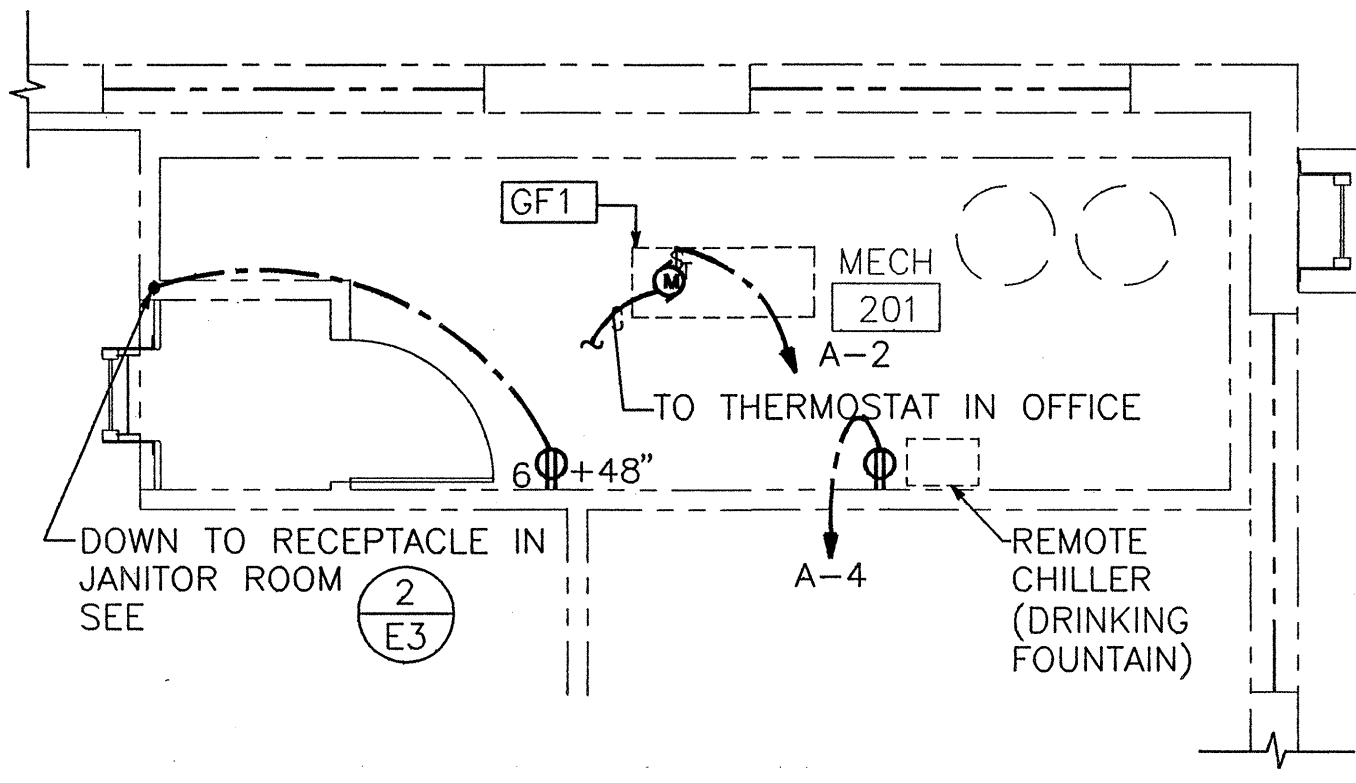
MECH. ROOM PLAN-LIGHTING
SCALE: 1/4"=1'-0"

3
E3



FLOOR PLAN-POWER
SCALE: 1/4"=1'-0"

2
E3



MECH. ROOM PLAN-POWER
SCALE: 1/4"=1'-0"

4
E3

KEYED NOTES (cont'd)

20. PROVIDE FIXTURE BRACKETING TO MOUNT FIXTURE TO CANOPY.
21. WALL MOUNT FIXTURES 3'-0" TO TOP A.F.F. OF MECHANICAL ROOM.
22. MOUNT RECEPTACLES HORIZONTAL 6" ABOVE COUNTER TOP. (TYPICAL). SEE ELEVATION 1/A3.
23. 1" PVC CONDUIT FOR IRRIGATION CONTROL WIRING SEE SHEET E2 FOR ROUTING OF CONDUIT.

1/4"=1'-0" 0 4 8 12 FT.

KEYED NOTES

1. EXTEND HOMERUN THRU LIGHTING CONTACTOR TO CIRCUIT AS INDICATED.
2. ROOF MOUNTED 120VAC PHOTOCCELL.
3. 18"x 24"x 4"D NEMA 1, TELEPHONE TERMINAL CABINET WITH HINGED DOOR, AND 3/4" PLYWOOD BACKBOARD, MOUNT UP 5'-0" A.F.F. TO TOP.
4. PROVIDE FIXTURE SUPPORTS AS REQUIRED. COORDINATE EXACT REQUIREMENTS IN THE FIELD.
5. 2" TELEPHONE CONDUIT WITH PULLSTRING TO BUILDING "B". SEE SHEET E2.
6. 5-1/2" CONDUIT FOR LOW VOLTAGE LEAK DETECTION SYSTEM. SEE 4/E4.
7. SURFACE MOUNTED JUNCTION BOX FOR SERVICE LIGHT CONNECTION. COORDINATE EXACT LOCATION IN THE FIELD.
8. COMBINATION STARTER/DISCONNECT SWITCH, HEAVY DUTY, NEMA SIZE 1 STARTER, 40A-3P, 3W, 250V NEMA 1 ENCLOSURE.
9. MIDWEST ELECTRIC #U220H EVAPORATIVE COOLER FUSIBLE DISCONNECT SWITCH, NEMA 3R ENCLOSURE, MOUNT SWITCH TO UNIT. COORDINATE EXACT REQUIREMENTS IN THE FIELD.
10. 120V-6P, LIGHTING CONTACTOR, NEMA ENCLOSURE, MAINTAINED CONTACT. SEE 7/E4.
11. 2-1 1/4" (RGS) CONDUITS TO FCT. CONDUCTORS PER MANUFACTURER'S REQUIREMENTS. SEE SHEET E2 FOR CONTINUATION.
12. "EMERGENCY SHUT OFF" STATION TO SHUT DOWN FUEL PUMPS. PROVIDE MAINTAINED CONTACT PUSHBUTTON, PULL TO RELEASE. 2-NC, CONTACTS WITH GUARD RING. PROVIDE EMERGENCY SIGNAGE AND INSTRUCTIONS PER NFPA 30A, 1990.
13. HOMERUN TO SHUNT TRIP CIRCUIT BREAKER IN PANEL "B".
14. FUEL LEAK DETECTOR CABINET. COORDINATE LOCATION IN THE FIELD.
15. 30A-2P, 3W, 250V, HEAVY DUTY FUSIBLE DISCONNECT SWITCH, NEMA 1 ENCLOSURE, FUSE PER MANUFACTURER'S REQUIREMENTS.
16. MAKE REQUIRED CONNECTIONS TO MECHANICAL SOLENOIDS FOR FLUID DISPENSING.
17. COMBINATION STARTER/DISCONNECT SWITCH, NEMA SIZE 0, HEAVY DUTY, 30A-2P, 3W, 250V, NEMA 1 ENCLOSURE.
18. TO FUEL PUMPS, SEE SHEET E2.
19. RUN CONDUITS EXPOSED INSIDE BUILDING. CORE DRILL WALL FOR CONNECTIONS TO LIGHTING FIXTURES. SEAL AROUND CONDUIT PENETRATION.

GENERAL NOTES

1. SEE SHEET E1 FOR ELECTRICAL LEGEND, FIXTURE SCHEDULE AND PANEL SCHEDULE.
2. WHERE CONDUCTORS ARE NOT SHOWN TYPICAL WIRING IS ONE NEUTRAL, ONE HOT OR SWITCH LEG AND ONE GROUND.

HN

HOLMES & NARVER, INC.

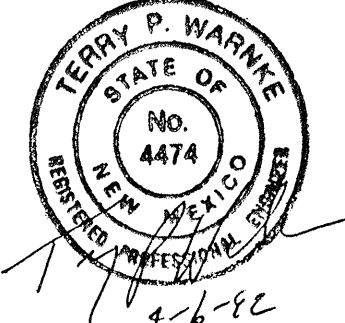
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: FOURTH STREET FUELING FACILITY
FLOOR PLANS LIGHTING & POWER

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair					
Trans. Dev.					
Utility Dev.					

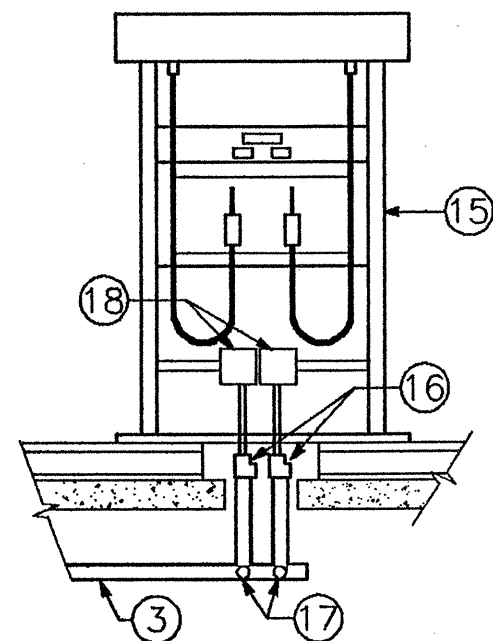
PROJECT NO. 4309.90 MAP NO. H14,J14 SHEET E3 OF 25

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		FIELD NOTES		ENGINEER'S SEAL		REMARKS		DESIGN		REVISIONS		DATE		BY		CHECKED BY		DATE	
CONTRACTOR		NO.		NO.		NO.		NO.		NO.		NO.		NO.		NO.		NO.		NO.		NO.	
DATE		DATE		DATE		DATE		DATE		DATE		DATE		DATE		DATE		DATE		DATE		DATE	
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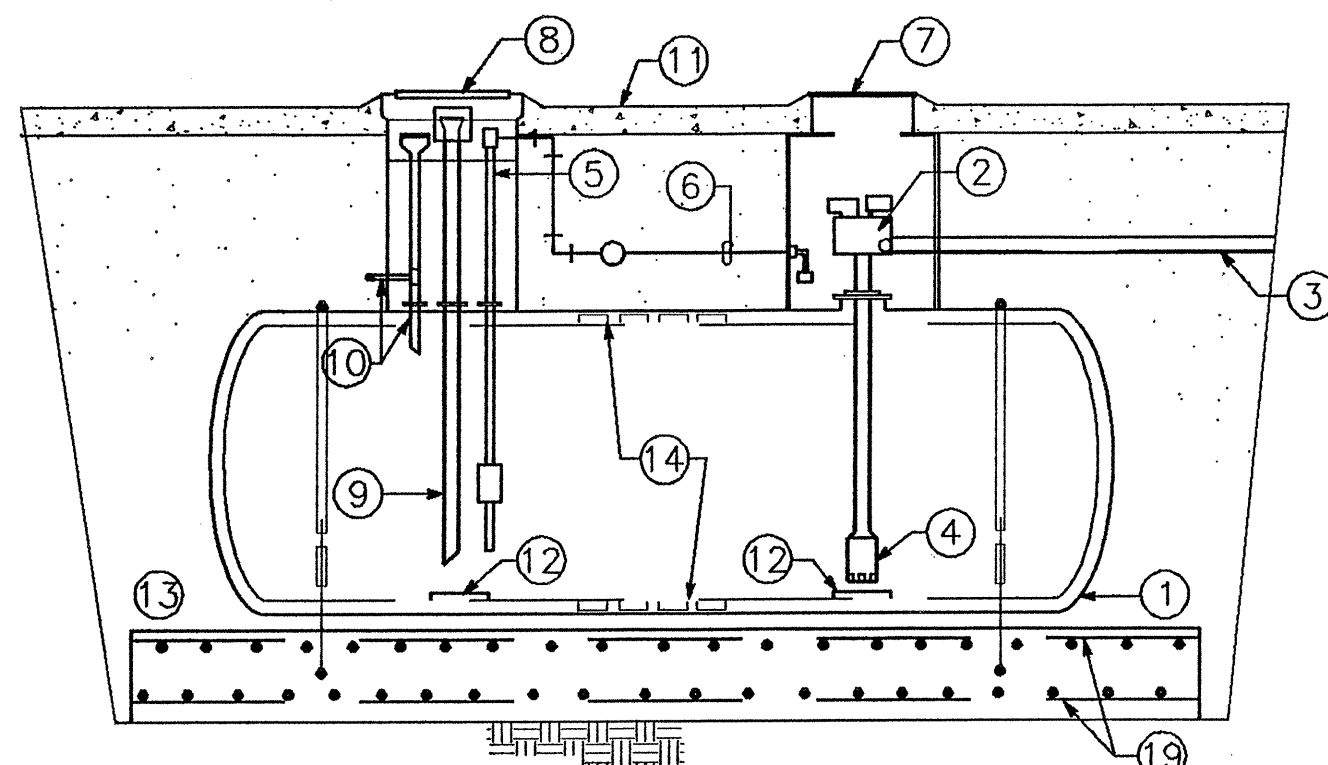


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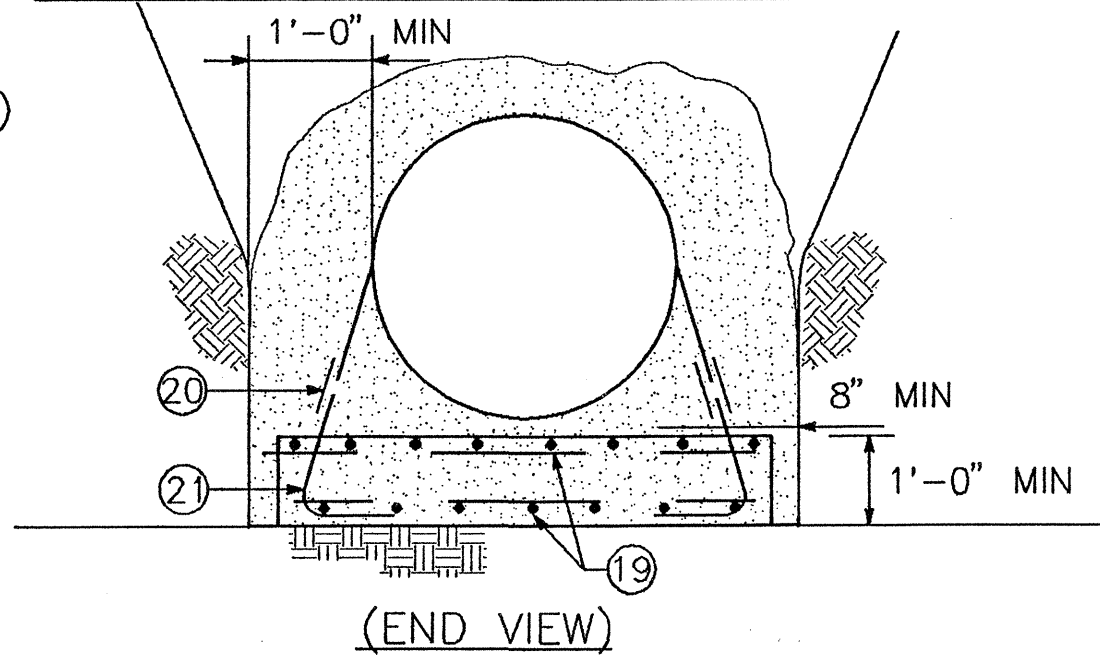
PROJECT NO.	4309.90	MAP NO.	H14.114	SHEET	E4	OF	25
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DISPENSER (ELEVATION)



UNDERGROUND TANK (SIDE VIEW)



(END VIEW)

FUEL SYSTEM DETAILS

NO SCALE

2
M1

KEYED NOTES: (FUEL SYSTEM DETAILS)

- ① UNDERGROUND FUEL STORAGE TANK - STEEL, DUAL WALL CONSTRUCTION, FST.
- ② SUBMERSIBLE FUEL PUMP WITH PISTON LEAK DETECTOR, FSP.
- ③ DUAL WALL FIBERGLASS FUEL SUPPLY PIPING.
- ④ FOOT VALVE.
- ⑤ LEAK DETECTION SYSTEM WITH INVENTORY/LEAK DETECTION PROBE.
- ⑥ LEAK DETECTOR WIRING CONDUIT, 1/2" AND 3/4" SIZE.
- ⑦ ACCESS MANHOLE.
- ⑧ ACCESS MANHOLE AND FILL BOX, CONTAINMENT TYPE.
- ⑨ 4" FILL TUBE & OVERFILL SPILL CONTAINER.
- ⑩ 2" VENT/VAPOR RECOVERY PIPE WITH OVERFILL SHUT-OFF SWITCH.
- ⑪ CONCRETE SLAB OVER STORAGE TANKS.
- ⑫ DEFLECTOR PLATES.
- ⑬ SAND BED AND SURROUNDING COVER FOR TANK.
- ⑭ FLOW CHANNELS BETWEEN TANK WALLS.
- ⑮ FUEL DISPENSER, FDU.
- ⑯ AUTOMATIC SHUT-OFF VALVE (EMERGENCY).
- ⑰ SWING JOINT IN SUPPLY PIPING.
- ⑱ DISPENSER INTERNAL HYDRAULIC MANIFOLD CONSISTING OF SHUT-OFF VALVE, FILTER, AIR GAP, DIAPHRAGM VALVES & METER.
- ⑲ #4 REBAR 12" ON CENTER EACH WAY, TOP AND BOTTOM, WITH 3" COVER.
- ⑳ 3/4" TURNBUCKLES AND CABLE CLAMPS.
- ㉑ 7/8"Ø PLAIN RODS, THREADED, TIED TO REBAR.

OWNER FURNISHED EQUIPMENT

SYMBOL	DESCRIPTION
*ACS-2	ACCESS CONTROL SYSTEM (FUELS): FUEL MANAGEMENT SYSTEM BY E.J. WARD INC. CAPACITY TO ALLOW ACCESS TO AND CONTROL, 40 DISPENSER HOSES FROM 10 DISPENSER UNITS (MAX.) PROVIDE FUEL CONTROL TERMINALS (FCT), A WEATHERPROOF 11GA. STEEL CABINET (16"x12"x10-1/2") & PEDESTAL (17"x16"x54" TALL), 18GA. STEEL CONSTRUCTION. FCT WILL CONTAIN MAGNETIC CARD READER ACCESS & DISPENSER OPERATING CONTROLS. 120V-1Ø-60 CONTROL POWER. U.L. LISTED. (4 TOTAL REQUIRED.) A CENTRAL PROCESSOR SHALL SERVE THE FCT'S AND SHALL CONTAIN MICROPROCESSORS AND DATA TRANSFER SYSTEMS. 120V-1Ø-60 CONTROL POWER. THE SYSTEM IS COMPATIBLE WITH THE FUEL LEAK DETECTOR SYSTEM, <u>FLD</u> A VEEDER-ROOT MODEL TLS250i. *THIS EQUIPMENT COMPLETE WITH START-UP, ADJUSTMENT, TESTING, PROGRAMMING & VERIFICATION WILL BE FURNISHED BY THE CITY OF ALBUQUERQUE. THE CONTRACTOR WILL INSTALL THE EQUIPMENT COMPLETE WITH CONTROL WIRING AND WILL COORDINATE THIS INSTALLATION WITH THE MANUFACTURER AND FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS.

FUEL EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION																							
FST	FUEL STORAGE TANKS: STEEL CONSTRUCTION FOR UNDERGROUND INSTALLATION, DUAL WALL CONTAINMENT. PER STEEL TANK INSTITUTE STANDARDS ST1-P3, ST1-86 & UL 58. PROVIDE CORROSION PROTECTION SYSTEM CONSISTING OF PROTECTIVE DIELECTRIC COATING, DIELECTRIC BUSHINGS, A SITE SPECIFIC CATHODIC PROTECTION SYSTEM DESIGNED AND TESTED BY A NACE CERTIFIED ENGINEER. ALL MATERIALS SHALL BE COMPATIBLE WITH METHANOL BLENDED FUELS. FURNISH WITH TANK FITTINGS. SEE SPECIFICATIONS SECTION 15483 FOR FITTINGS, OUTLETS AND ADDITIONAL REQUIREMENTS. SEE FUEL SYSTEMS DETAIL FOR GENERAL LOCATION OF FITTINGS.																							
	<table><tr><th>SYMBOL</th><th>CAPACITY (GALS.)</th><th>APPROX. SIZE (FT)</th><th>WALL THICK. (")</th><th>EMPTY WEIGHT (LBS)</th></tr><tr><td>FST-1</td><td>20,000</td><td>31 X 10'-6"</td><td>0.492</td><td>24,200</td></tr><tr><td>FST-2</td><td>15,000</td><td>23'-4" X 10'-6"</td><td>0.492</td><td>19,120</td></tr><tr><td>FST-3</td><td>15,000</td><td>23'-4" X 10'-6"</td><td>0.492</td><td>19,120</td></tr></table>				SYMBOL	CAPACITY (GALS.)	APPROX. SIZE (FT)	WALL THICK. (")	EMPTY WEIGHT (LBS)	FST-1	20,000	31 X 10'-6"	0.492	24,200	FST-2	15,000	23'-4" X 10'-6"	0.492	19,120	FST-3	15,000	23'-4" X 10'-6"	0.492	19,120
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FST-2	15,000	23'-4" X 10'-6"	0.492	19,120																				
FST-3	15,000	23'-4" X 10'-6"	0.492	19,120																				
FSP	FUEL SUPPLY PUMP: RED JACKET MODEL MDL-625, SUBMERSIBLE TYPE, SPLINE SHAFT CONNECTED IMPELLERS, PERMANENT SPLIT PHASE 208V-1-60 CYCLE MOTOR, UL LISTED, ENTIRE ASSEMBLY REMOVABLE, COMPLETE WITH CHECK, SYPHON, AND RELIEF VALVES, AIR ELIMINATOR, SYPHON NOZZLE & VENTURI. 4" TANK CONNECTOR SIZE. FURNISH WITH PUMP MOUNTED PISTON TYPE LEAK DETECTOR. (RED JACKET MODEL XLP).																							
	<table><tr><th>SYMBOLS</th><th>___GPM @ ___HD</th><th>HP</th><th>SYSTEM</th></tr><tr><td>FSP-1</td><td>90 @ 59'</td><td>1 1/2</td><td>UNLEADED GAS</td></tr><tr><td>FSP-2</td><td>70 @ 58'</td><td>1 1/2</td><td>REGULAR GAS</td></tr><tr><td>FSP-3</td><td>50 @ 67'</td><td>1 1/2</td><td>DIESEL FUEL</td></tr></table>				SYMBOLS	___GPM @ ___HD	HP	SYSTEM	FSP-1	90 @ 59'	1 1/2	UNLEADED GAS	FSP-2	70 @ 58'	1 1/2	REGULAR GAS	FSP-3	50 @ 67'	1 1/2	DIESEL FUEL				
SYMBOLS	___GPM @ ___HD	HP	SYSTEM																					
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FSP-3	50 @ 67'	1 1/2	DIESEL FUEL																					

FDU

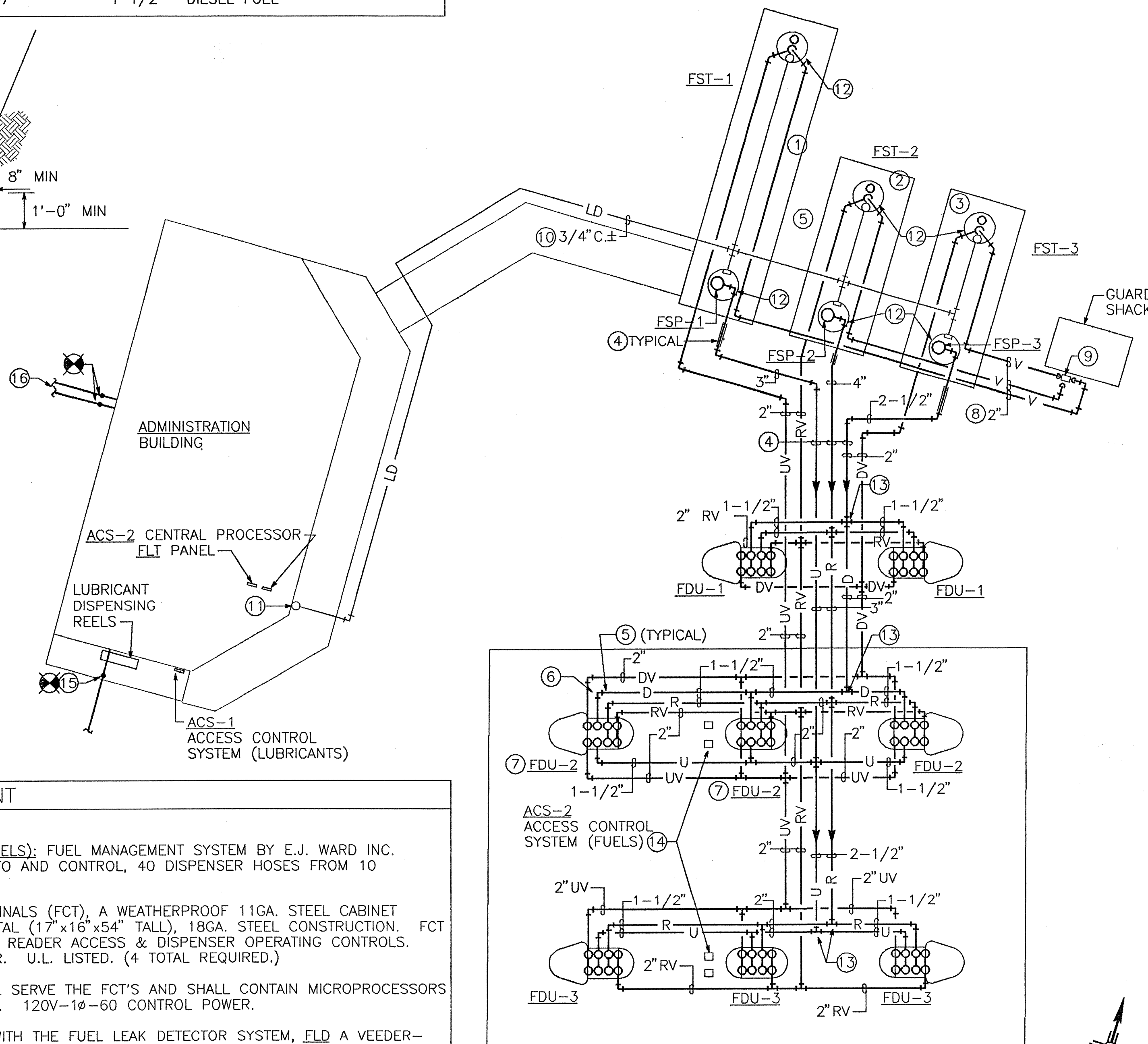
FUEL DISPENSER UNITS: GILBARCO "ADVANTAGE SERIES" WEATHERPROOF CABINET CONSTRUCTION, TWO HOSES PER SIDE (4 HOSES PER DISPENSER), APPROX. 50" WIDE X 33" DEEP X 94" HIGH. L.C.D. DISPLAY, 99,990 GALLON MECHANICAL TOTALIZER FOR EACH METER. TOTALIZER SHALL BE COMPATIBLE WITH THE E.J. WARD FUEL MANAGEMENT SYSTEM. HYDRAULIC MANIFOLD WITH SERVICE VALVES AND PILOT OPERATED TWO STAGE DIAPHRAGM VALVES. 10 MICRON FUEL FILTER (WATER & PARTICULATE) POSITIVE DISPLACEMENT METERS AND INLET PIPE CONNECTION, PREPARED FOR VAPOR RECOVERY. STANDARD HOSE & NOZZLE ARRANGEMENT, SOLID STATE METER PULSER, BATTERY RESERVE FOR ELECTRONICS 120V-1 PH-60 HZ. POWER. PAINTED STEEL ENCLOSURE AND LOCKING LOWER DOOR, REPLACEABLE GRAPHICS. 10 GPM MINIMUM DELIVERY RATE PER NOZZLE. DIESEL DISPENSING HOSE - 1" X 15' LENGTH, GASOLINE DISPENSING HOSE - 5/8" X 10'-6" LENGTH.

SYMBOL	RH DISPENSERS (2 EA)	LH DISPENSERS (2 EA)
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FDU-1	D/R	D/R	D = DIESEL FUEL
FDU-2	D/R	U/R	R = REGULAR FUEL
FDU-3	U/R	U/R	U = UNLEADED FUEL

FLD

FUEL LEAK DETECTOR: VEEDER-ROOT MODEL TLS-250i, LEAK SENSING & INVENTORY CONTROL SYSTEM. CONTROL PANEL WITH LED DISPLAY, PRINTED INVENTORY REPORTS, AUDIO & VISUAL (PRINT-OUT) ALARMS, ALARM RESET BUTTON. LOCAL AND REMOTE SENSING AND ALARM TRANSMISSION. MONITORS FOR LEAK IN TANK(S), INTERSTITIAL SPACE (FUEL & WATER), PUMP PIPING SUMP, REMOTE MONITORING WELL(S) PROBE, OVERFILL CONDITION & CONTINUOUS FUEL INVENTORY. FURNISH CONTROL PANEL, INVENTORY AND LEAK SENSING PROBES. 120V-1 PH-60 HZ. POWER.



UTILITIES PLAN

SCALE: 1"=10'-0"

1
M1

1"=10' 0 10 20 30 FT.

KEYED NOTES: (UTILITIES PLAN)

1. FUEL STORAGE TANK - 20,000 GALLONS CAPACITY, UNLEADED GASOLINE.
2. FUEL STORAGE TANK - 15,000 GALLONS CAPACITY, REGULAR GASOLINE.
3. FUEL STORAGE TANK - 15,000 GALLONS CAPACITY, DIESEL FUEL.
4. DUAL WALL FUEL SUPPLY PIPING.
5. SEE FUEL SYSTEM DETAILS FOR PIPING. (2 M1)
6. SWING JOINT FITTING (TYPICAL AT FUEL DISPENSERS).
7. FUEL DISPENSER (TYPICAL).
8. UNDERGROUND VENT PIPE.
9. RISE UP ON POLE TO ABOVE ROOF. INSTALL INVERTED V-CAP FITTING AT 13' ABOVE GRADE.
10. FUEL LEAKAGE DETECTION SYSTEM.
11. SEE PLUMBING PLAN FOR CONTINUATION.
12. ACCESS MANHOLE TO GRADE.
13. SWING JOINT FITTING.
14. ACS-2 E.J. WARD, PEDESTAL TYPE, FUEL ACCESS CONTROL MODULE. FURNISHED BY CITY OF ALBUQUERQUE, INSTALLED, WIRED, & TESTED BY CONTRACTOR.
15. EXISTING WASTE LINE. CONNECT NEW 4" WASTE LINE TO EXISTING WASTE LINE 3'-0" OUTSIDE OF BUILDING. CONTRACTOR TO VERIFY EXACT SIZE, DEPTH AND LOCATION OF EXISTING WASTE LINE.
16. WATER AND GAS SERVICE TO BUILDING. CONTRACTOR TO VERIFY THAT GAS AND WATER ARE STILL IN SERVICE.

LEGEND

- U — UNLEADED GASOLINE SUPPLY
- R — REGULAR GASOLINE SUPPLY
- D — DIESEL GASOLINE SUPPLY
- V — VENT LINE
- LD — LEAK DETECTION CONDUIT
- ⊗ CONNECT NEW TO EXISTING
- UV — UNLEADED VAPOR
- RV — REGULAR VAPOR
- DV — DIESEL VAPOR

HN
Holmes & Narver

 CITY OF ALBUQUERQUE
 PUBLIC WORKS DEPARTMENT
 ENGINEERING GROUP

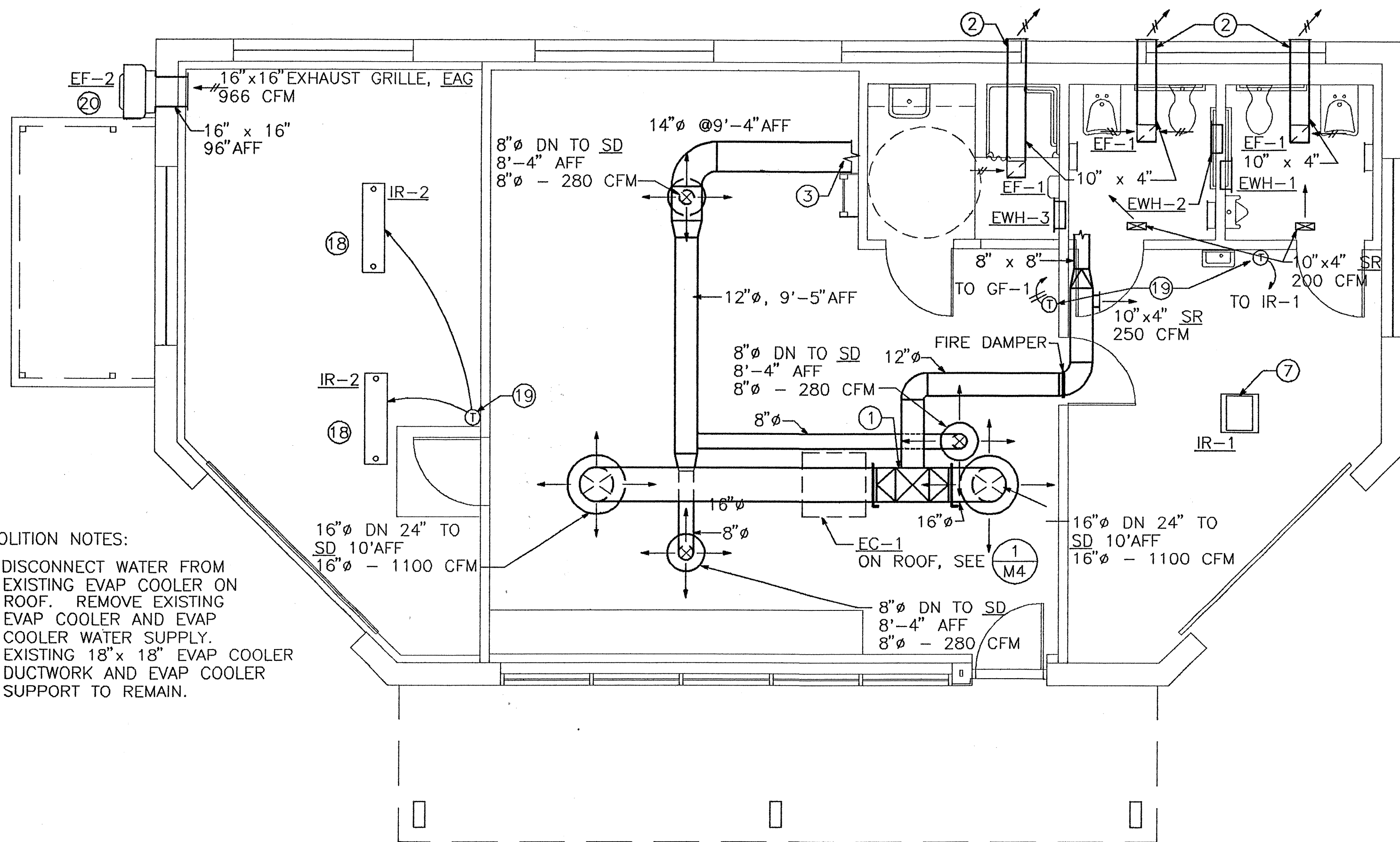
 TITLE: FOURTH STREET FUELING FACILITY
 UTILITIES PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY					
PARKS & REC					
PROJECT NO.	4309.90	MAP NO.	H14,J14	SHEET	M1 OF 25

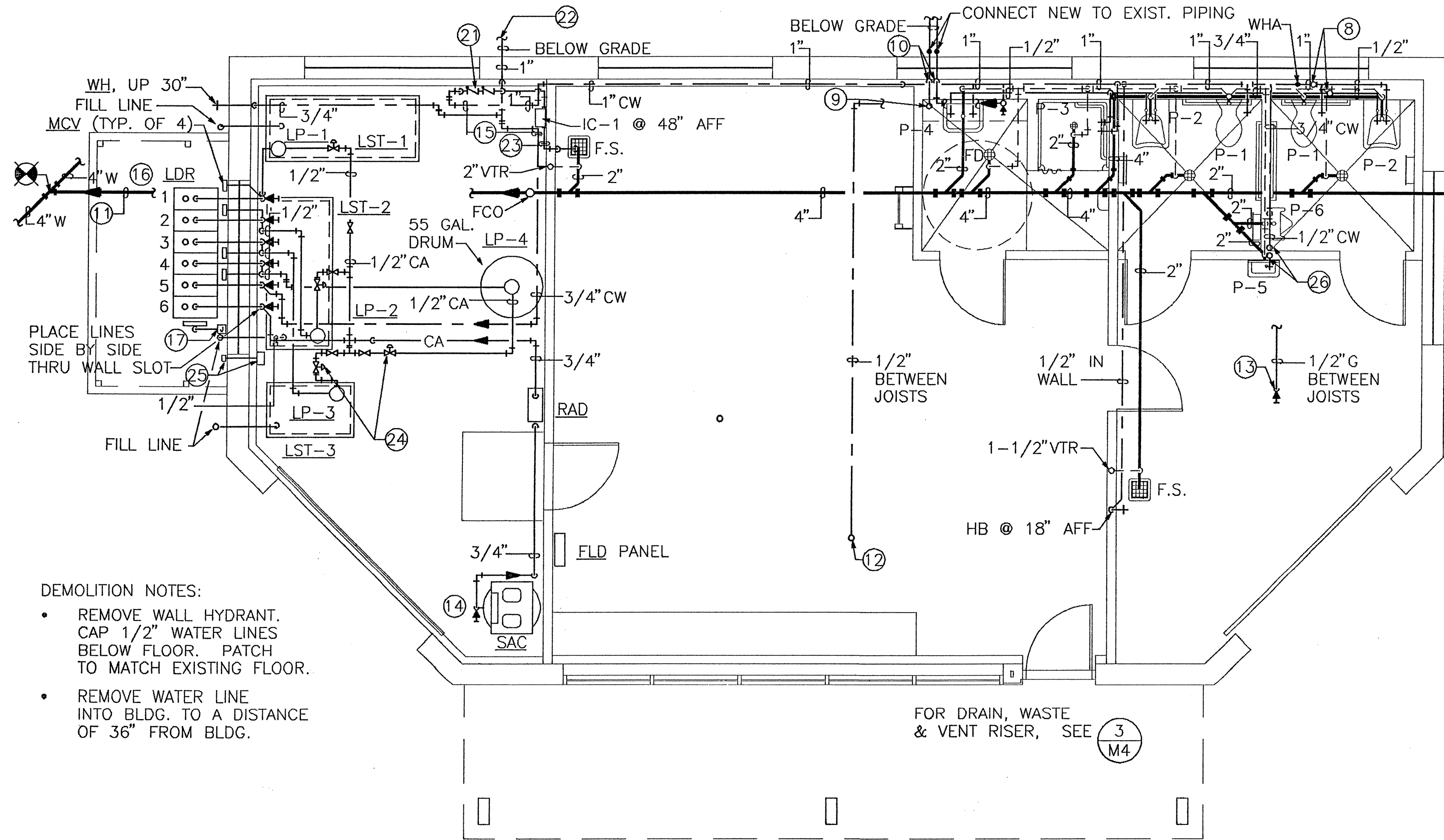
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	CONTRACTOR	DATE	NO.	DATE	NO.	DATE
STATE BY	DATE	STATE BY	DATE	BY	DATE	BY	DATE
FIELD ACCEPTANCE BY	DATE	FIELD ACCEPTANCE BY	DATE	REMARKS	DATE	REMARKS	DATE
CHECKED BY	DATE	CHECKED BY	DATE	DESIGN	DATE	DESIGN	DATE
MICRO-FILM INFORMATION				DESIGNED BY: JRN/RW			
				DRAWN BY: H&N/LDG			
				CHECKED BY: P. ROYBAL			
				DATE: FEB. 1992			

TIME: 04-02-92 13:30:47

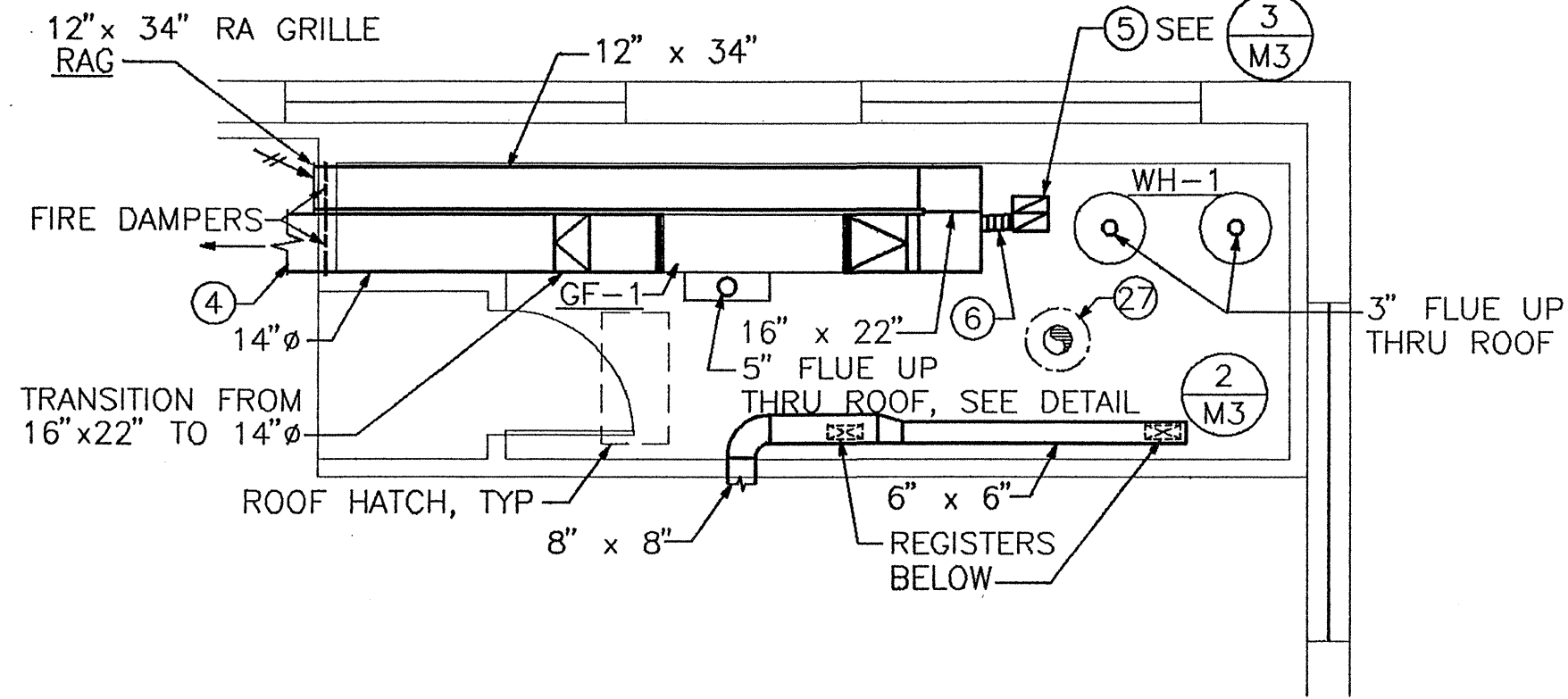
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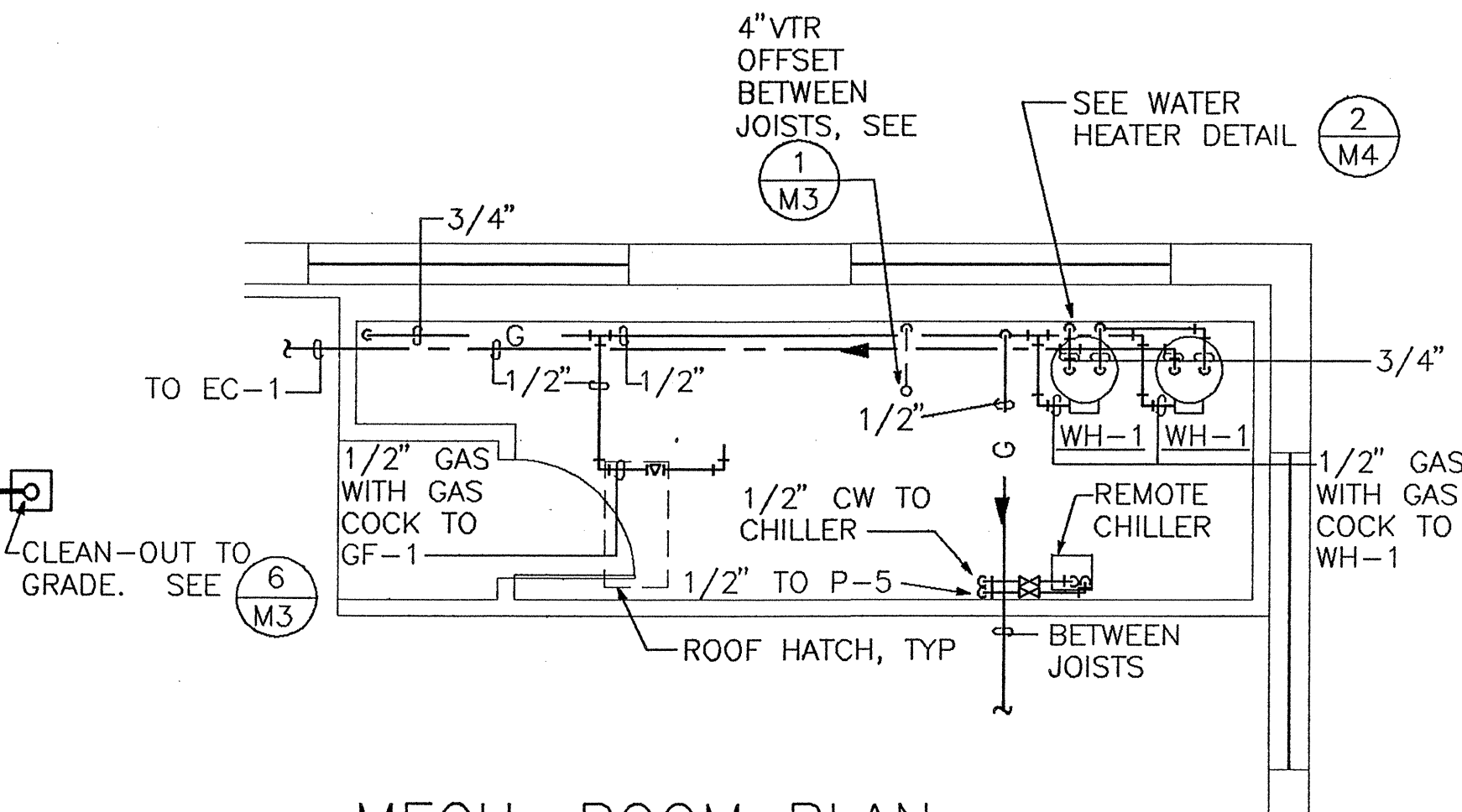
FLOOR PLAN - MECHANICAL (1 M2)
SCALE: 1/4" = 1'-0"



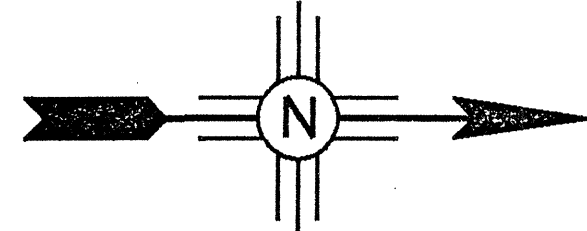
FLOOR PLAN - PLUMBING (2 M2)
SCALE: 1/4" = 1'-0"



MECH. ROOM PLAN (3 M2)
SCALE: 1/4" = 1'-0"



MECH. ROOM PLAN (4 M2)
SCALE: 1/4" = 1'-0"



1/4" = 1'-0" 0 4 8 12 FT.

- KEYED NOTES:**
- CONNECT TO EXISTING 18" x 18" DUCT. SEE EVAPORATIVE COOLER DETAIL. (1 M4)
 - TERMINATE 10" x 4" EXHAUST DUCT AT WALL WITH WALL DISCHARGE LOUVER.
 - SEE MECH. ROOM PLAN FOR CONTINUATION.
 - SEE MECHANICAL FLOOR PLAN FOR CONTINUATION.
 - 2-5" x 10" COMBUSTION AIR DUCTS FROM 10" x 10" GOOSENECK ON ROOF. TERMINATE ONE 12" BELOW ROOF AND ONE 12" ABOVE FLOOR.
 - 4" x 4" OUTSIDE AIR DUCT FROM 5" x 10" COMBUSTION AIR DUCT. CONNECT TO 16" x 22" R.A. DUCT W/MANUAL DAMPER.
 - MOUNT IR-1 INFRA-RED HEATER 12'-0" ABOVE FLOOR. SUSPEND FROM JOIST WITH 1/4" ALLTHREAD RODS.
 - 3/4" HOT WATER AND 3/4" COLD WATER UP TO WATER HEATER WH-1. SEE MECH. ROOM PLAN FOR CONTINUATION.
 - 3/4" GAS LINE UP. SEE MECH. ROOM PLAN FOR CONTINUATION.
 - CONNECT NEW 1" COLD WATER & 3/4" GAS LINE TO EXISTING 1" COLD WATER AND 1" GAS LINES. CONTRACTOR TO VERIFY EXACT SIZE & LOCATION OF EXISTING GAS AND WATER. CONTRACTOR TO VERIFY THAT GAS AND WATER ARE IN SERVICE.
 - CONNECT NEW 4" WASTE LINE TO EXISTING WASTE LINE. CONTRACTOR TO VERIFY EXACT SIZE, DEPTH & LOCATION OF EXISTING WASTE LINE.
 - 1/2" COLD WATER LINE UP TO EVAP. COOLER EC-1 ON ROOF. INSTALL 1/2" DRAIN 36" A.F.F.
 - 1/2" GAS LINE TO INFRA-RED HEATER IR-1.
 - SEE AIR COMPRESSOR DETAIL FOR PIPING.
 - COLD WATER LINE UP 8'-0" AFF.
 - FOR PIPING AND ACCESSORIES, SEE (5 M3)
 - ELECTRIC JUNCTION BOX. INSTALL IR-2 UP 8'-6" AFF. SUSPEND FROM 1/4" ALLTHREAD RODS OR CHAIN FROM ROOF STRUCTURE.
 - MOUNT THERMOSTAT 60" AFF.
 - MOUNT EF-2 84" AFF. SUPPORT FROM WALL. SEAL TO BE WATERTIGHT.
 - DROP 1" CW TO 1" REDUCED PRESSURE BACKFLOW PREVENTER, WILKINS 575RP, OR EQUAL WITH AG-1 AIR GAP.
 - IRRIGATION LINE BELOW GRADE. SEE SITE PLAN, SHT C2 FOR CONTINUATION.
 - 3/4" DRAIN FROM BACKFLOW PREVENTER. EXTEND THROUGH WALL AND DROP TO FLOOR SINK. C.A. SOLENOID CONTROL VALVE.
 - ID CARD READER & CONTROL PANEL ACS-1.
 - 1/2" CW TO/FROM REMOTE CHILLER IN MECH. ROOM.
 - INSTALL TURBINE VENTILATOR THRU ROOF, 8" THROAT. SET TO BE WATERTIGHT.

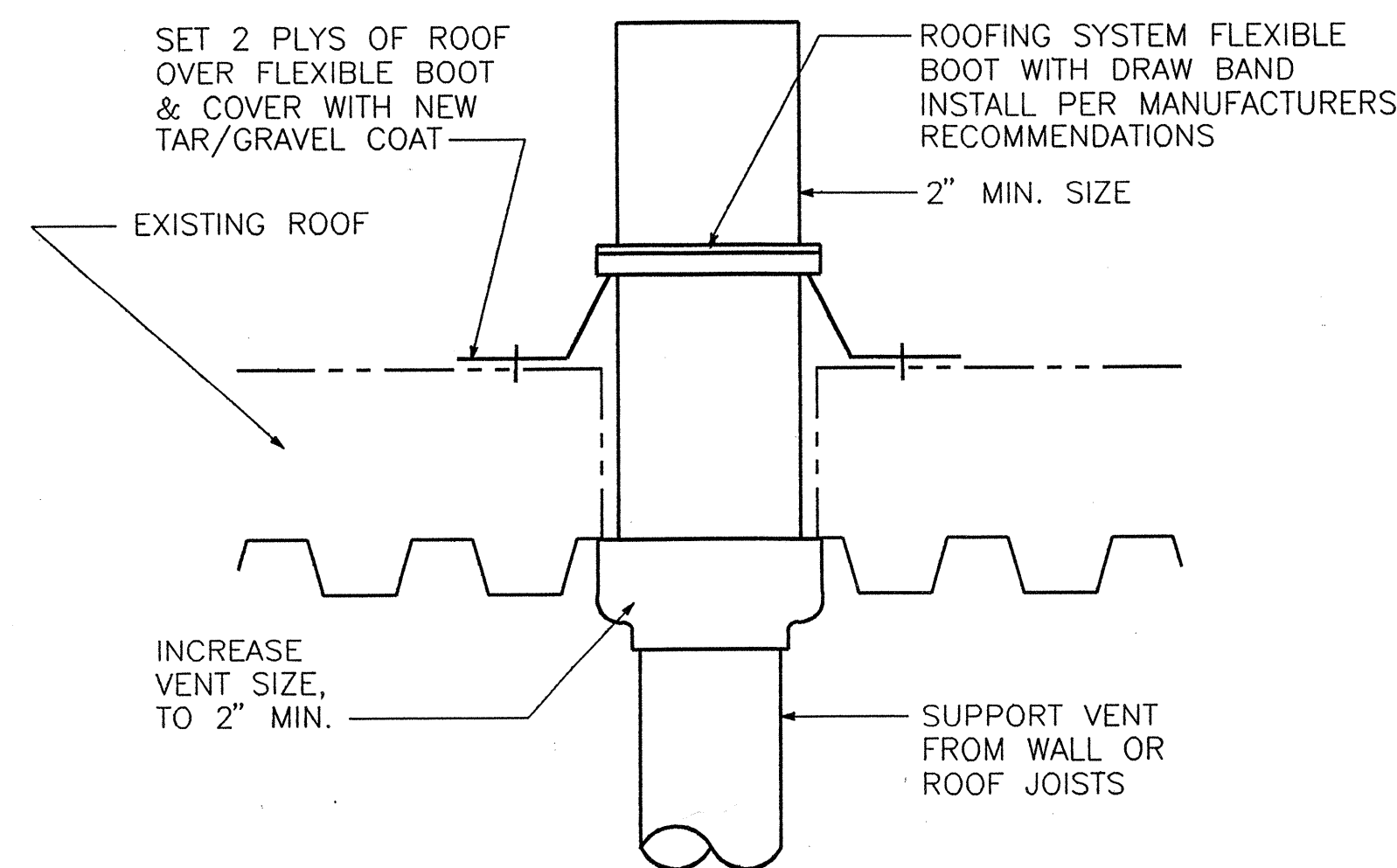
HOLMES & NARVER, INC.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: FOURTH STREET FUELING FACILITY
PLUMBING AND MECHANICAL PLANS

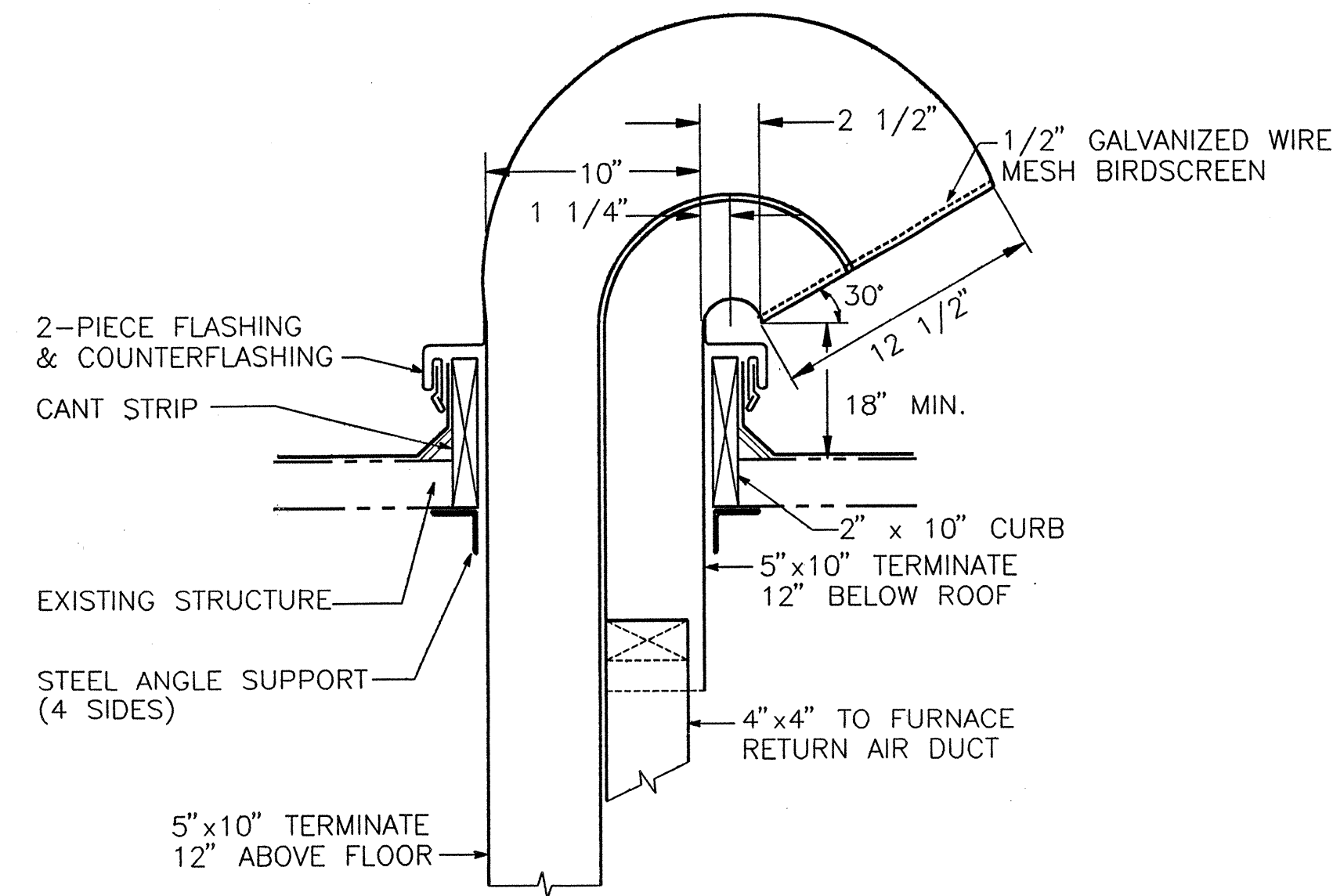
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair					
Trans. Dev.					
Utility Dev.					

PROJECT NO. 4309.90 **MAP NO.** H14,J14 **SHEET** M2 **OF** 25



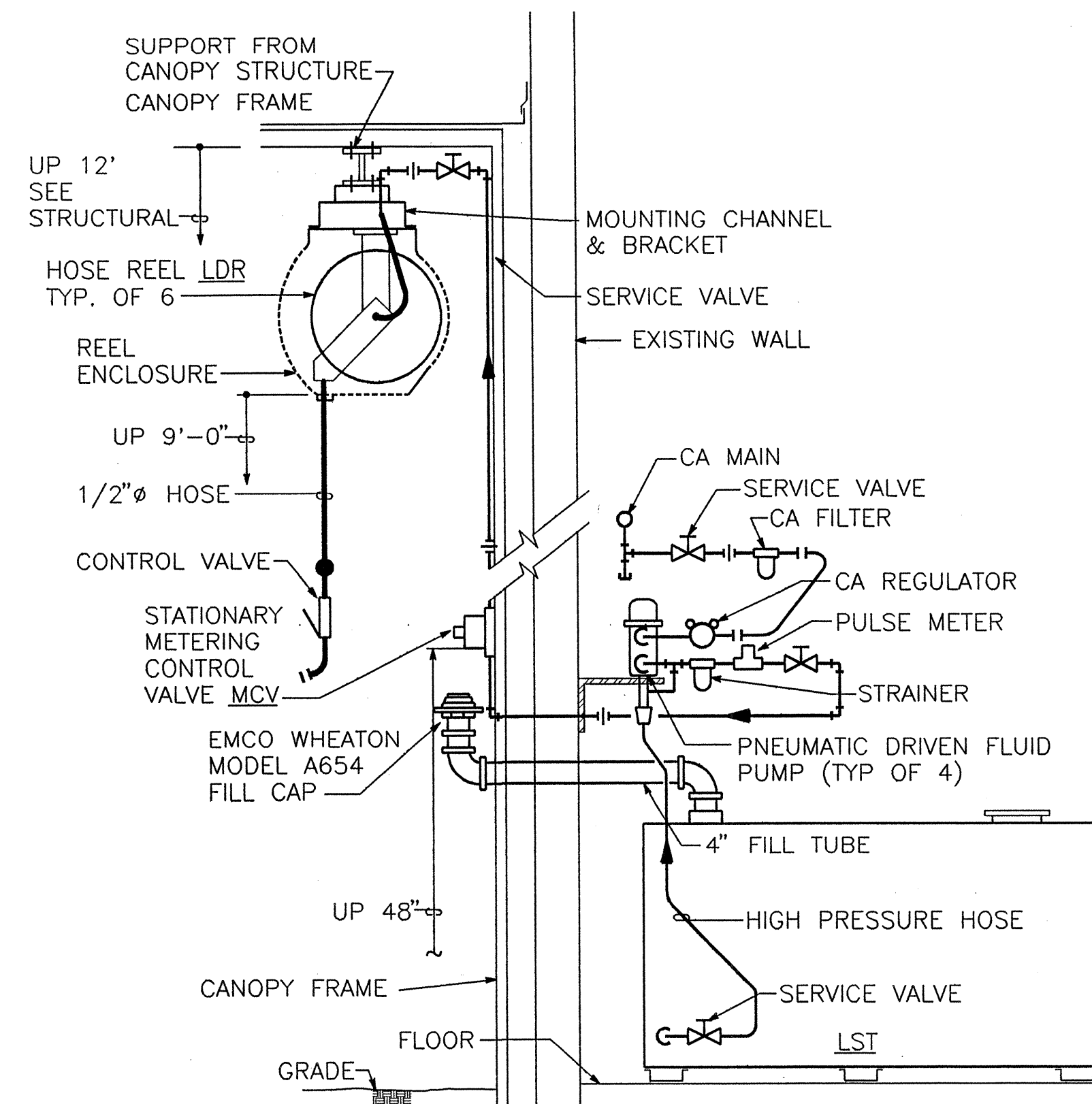
VENT THRU ROOF DETAIL

NO SCALE



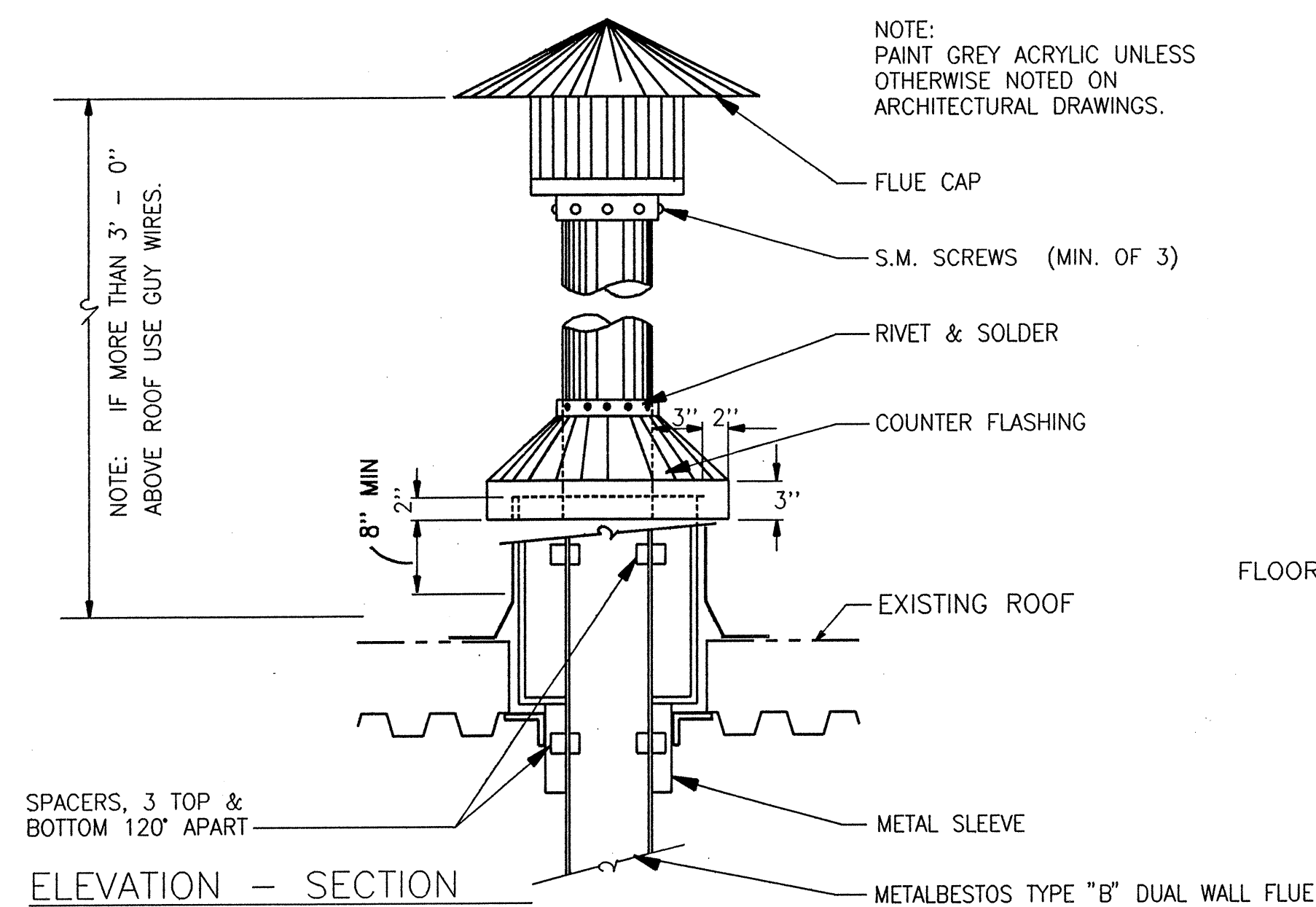
GOOSENECK DETAIL

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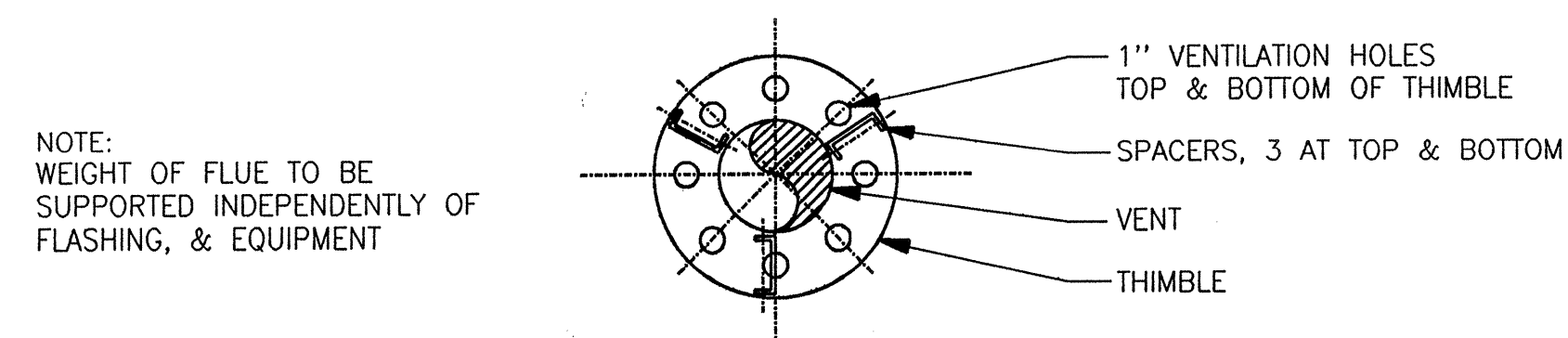


FLUID DISPENSING SYSTEM DETAIL

NO SCALE



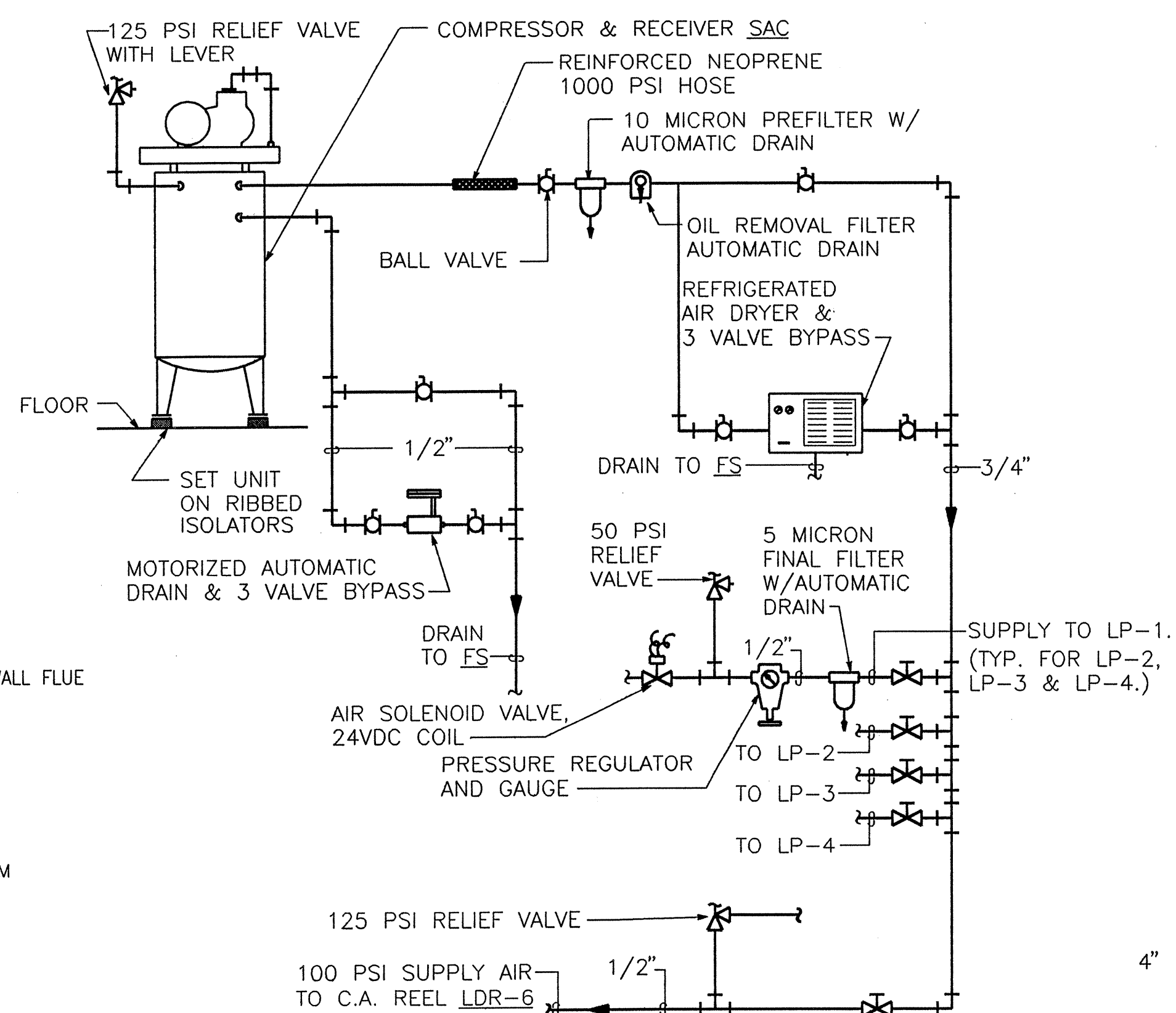
ELEVATION - SECTION



PLAN - SECTION THRU THIMBLE

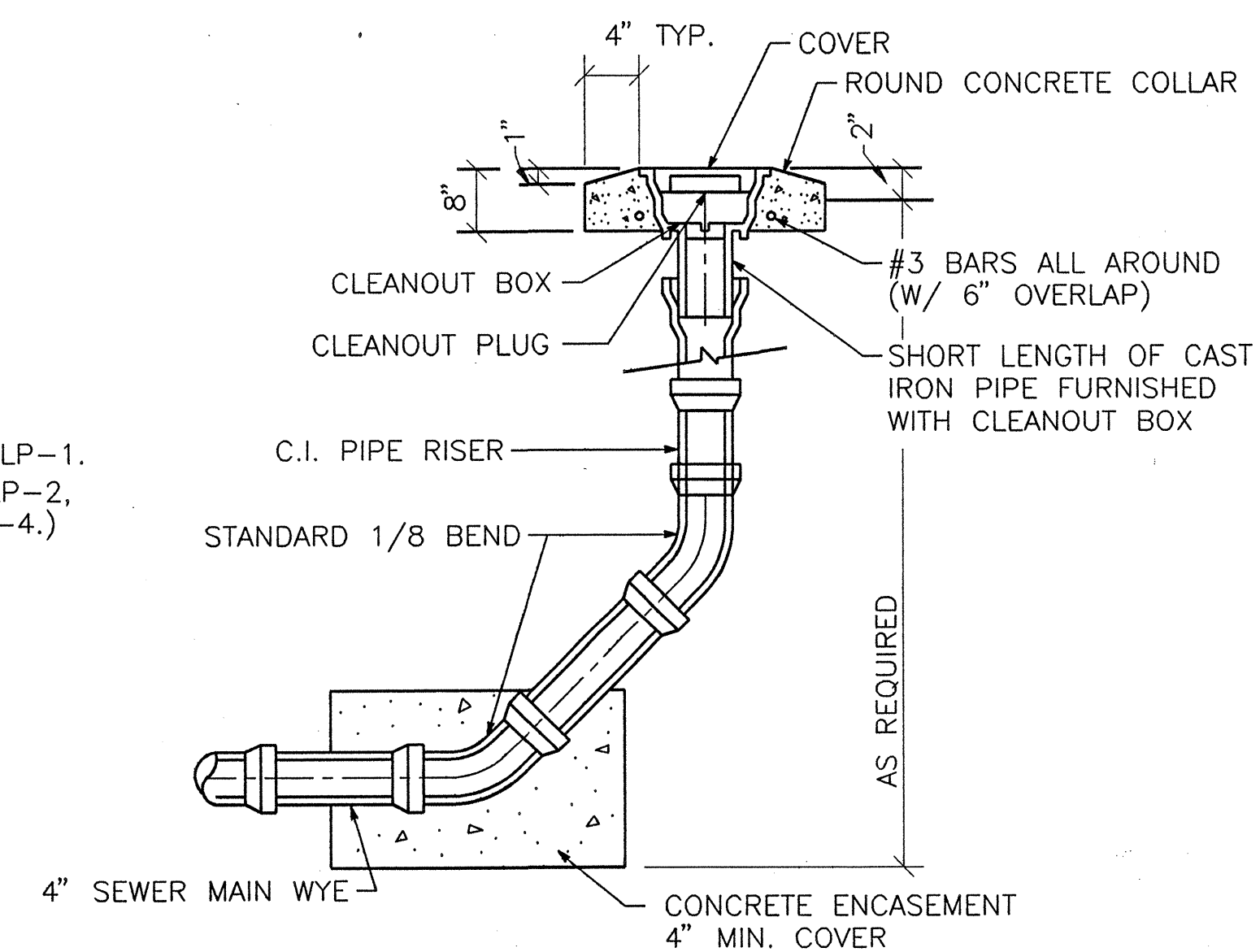
FLUE DETAIL

NO SCALE



AIR COMPRESSOR DETAIL

NO SCALE



CLEAN-OUT TO GRADE DETAIL

NO SCALE

[illegible]

H&N
HOLMES & NARVER, INC.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: FOURTH STREET FUELING FACILITY
DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair					
Trans. Dev.					
Utility Dev.					

PROJECT NO.	4309.90	MAP NO. H14,J14	SHEET M3 ^{OF} 25
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EVAPORATIVE COOLER DETAIL

NO SCALE

1
M2

WATER HEATER DETAIL

NO SCALE

2
M2

PLUMBING RISER DIAGRAM

MECHANICAL EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION																				
EF-1	<u>EXHAUST FAN:</u> GREENHECK MODEL SP-8, CEILING MOUNTED, ALL METAL HOUSING WITH ALUMINUM WHEEL, BACKDRIFT DAMPER, AND DISCONNECT. 90 CFM AT 0.12" SP, 1/125 HP 120V-1PH-60 HZ. MOTOR, WLSF DISCHARGE WALL LOUVER.																				
EC-1	<u>EVAPORATIVE COOLER:</u> ARVIN MODEL ES430 B/C, ROOF MOUNTED, SIDE DISCHARGE, COMPLETE WITH PADS AND METAL PAD COVERS, PUMP, FLOAT AND ASPHALT COATED RESERVOIR. 2850 CFM AT 0.5" S.P., 1/3 H.P. 120V-1PH-60 HZ. 2 SPEED MOTOR. FURNISH WITH PUMP & FAN SPEED SWITCHES.																				
EF-2	<u>EXHAUST FAN:</u> GREENHECK MODEL CW-130-C, WALL MOUNTED, ALL METAL HOUSING WITH ALUMINUM WHEEL, BACKDRIFT DAMPER AND DISCONNECT. 966 CFM @ 1/8" S.P., 1/12 H.P. 120V-1PH-60 HZ. MOTOR.																				
EH-1 THRU 3	<u>ELECTRIC HEATER:</u> ELECTRIC HEATER FOR RECESSED WALL MOUNTING, FORCED AIR, NICKEL CHROMIUM ALLOY ELEMENT. TOTAL ENCLOSED FAN MOTOR, PROVIDE WITH INTEGRAL VANDAL PROOF THERMOSTAT. MODEL NOS. ARE MARKEL.																				
	<table><tr><th>SYMBOL</th><th>MODEL</th><th>WATTS</th><th>VOLTS</th><th>AMPS</th></tr><tr><td>EW-1</td><td>HF400ST</td><td>1500</td><td>208V-1PH</td><td>6.3</td></tr><tr><td>EW-2</td><td>HF4003T</td><td>1000</td><td>208V-1PH</td><td>4.2</td></tr><tr><td>EW-3</td><td>HF4003T</td><td>750</td><td>208V-1PH</td><td>4.2</td></tr></table>	SYMBOL	MODEL	WATTS	VOLTS	AMPS	EW-1	HF400ST	1500	208V-1PH	6.3	EW-2	HF4003T	1000	208V-1PH	4.2	EW-3	HF4003T	750	208V-1PH	4.2
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EW-2	HF4003T	1000	208V-1PH	4.2																	
EW-3	HF4003T	750	208V-1PH	4.2																	
IR-1	<u>INFRA-RED HEATER:</u> REZNOR MODEL RIRH-1-25, NATURAL GAS FIRED WITH 100% SAFETY CUT-OFF, AGA APPROVED, ALUMINIZED VENTURI BURNER HOUSING. INTEGRATED, MODULAR, PERFORATED "EFFECT" CERAMIC TILE. HEAT TREATED, POLISHED ALUMINUM REFLECTOR. 25000 BTUH S.L. INPUT. FURNISH WITH WALL MOUNTED HEATING THERMOSTAT. 120V-1PH-60 HZ.																				
WH-1	<u>DOMESTIC WATER HEATER:</u> A.O. SMITH PGCL-40. NATURAL GAS FIRED, 100% SAFETY CUT-OFF, ORFICED FOR OPERATION AT 5500 FT. ELEV. - GLASS LINED TANK, AGA APPROVED. 40 GALLONS STORAGE, 32.8 GPH RECOVERY AT 90 DEG F RISE. 32.500 BTUH S.L. INPUT.																				
IR-1	<u>INFRA-RED HEATER:</u> CHROMOLOX TYPE RDO 60, ELECTRIC, UL LISTED, DOUBLE ELEMENT, 600 SYMMETRICAL ALUMINUM REFLECTOR, METAL SHEATH ELEMENT, 4.0 KW CAPACITY, 208V-1PH-60 HZ. FURNISH WITH WALL MOUNTED THERMOSTAT.																				
SD	<u>SUPPLY DIFFUSER:</u> KRUEGER RS-1, ROUND, ADJUSTABLE CONES, STEEL CONSTRUCTION, OBD.																				
SR	<u>SUPPLY REGISTER:</u> SIDEWALL; KRUGER S585H STEEL CONSTRUCTION, WITH OBD.																				
RAG	<u>RETURN AIR GRILLE:</u> KRUGER S580 H, STEEL CONSTRUCTION, FIXED LOUVERS.																				
EAG	<u>EXHAUST AIR GRILLE:</u> KRUGER S580 H, STEEL CONSTRUCTION, FIXED LOUVERS.																				

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION
P-1	WATER CLOSET: AMERICAN STANDARD "MADERA" NO. 2221.018 FLOOR MOUNTED, VITREOUS CHINA, ELONGATED, SIPHON JET ACTION, WITH OLSONITE NO. 95 OPEN FRONT SEAT LESS COVER, WITH 3140 STAINLESS STEEL HINGE POST WITH CONCEALED CHECK. SLOAN ROYAL NO. 110-3 FLUSH VALVE, AND BOLT CAPS, 4" WASTE, 2" VENT, 3/4" CW.
P-2	LAVATORY: AMERICAN STANDARD WHEELCHAIR LAVATORY NO. 9141.011, VITREOUS CHINA, WALL MOUNTED WITH FRONT OVERFLOW, NO. 7723.018 GRID DRAIN. CHICAGO FAUCET NO. 409-E12 "TIP-TAP" WIDE SPREAD ADJUSTABLE SLOW CLOSING FAUCETS WITH 5" SPOUT. WADE W-520-M24 LAVATORY CARRIER. PROVIDE L.K. STOPS AND "P" TRAP. 2" WASTE, 1-1/2" VENT, 1/2" CW, 1/2" HW.
P-3	SHOWER: FIAT MODEL NO. MSH-310 RH, ONE PIECE ACRYLIC HANDICAPPED ACCESSIBLE SHOWER MODULE, MODEL 160 AA PRESSURE BALANCED, SINGLE LEVER MIXING VALVE WITH STOPS, HAND HELD SHOWER HEAD WITH SWIVEL FITTING, 69" FLEXIBLE STAINLESS STEEL HOSE AND IN-LINE VACUUM BREAKER, 10 OZ. GSA APPROVED SHOWER CURTAIN, 2" CHROME PLATED SHOWER DRAIN AND 1" DIAMETER STAINLESS STEEL CURTAIN ROD, FACTORY INSTALLED GRAB BARS AND FOLD-UP SEAT. 2" WASTE, 1-1/2" VENT, 1/2" CW, 1/2" HW.
P-4	SERVICE SINK: AMERICAN STANDARD "LAKEWELL" NO. 7692-049, WALL MOUNTED, ENAMELED CAST IRON SINK WITH 8379.018 RIM GUARD AND WALL HANGER NO. 7798.176 TRAP NO. 8301.061 SINK STRAINER, AND NO. 8344.111 SINK FAUCET WITH 3/4" HOSE OUTLET, VACUUM BREAKER, BUCKET HOOK, TOP SPOUT BRACE TO WALL, AND STOPS IN SHANKS. 3" WASTE, 1-1/2" VENT, 1/2" CW, 1/2" HW.
P-5	DRINKING FOUNTAIN: ELKAY MODEL EFD-19-C, SIMULATED SEMI-RECESSED, STAINLESS STEEL FOUNTAIN WITH STREAM SPLITTER, DOME STRAINER & SELF-CLOSING FRONT PUSH BAR. FURNISH WITH REMOTE CHILLER MODEL ERC-8, CAPABLE OF 8 GPH OF 50°F WATER WITH A 1/5 HP (5.2FLA), 120 VOLT COMPRESSOR. 1-1/2" WASTE, 1-1/4" VENT, 1/2" CW
P-6	URINAL: AMERICAN STANDARD MODEL "WASHBROOK" NO. 6501.010. VITREOUS CHINA WATER SAVER URINAL WITH 3/4" INLET SPUD. FURNISH WITH WALL HANGERS & SLOAN ROYAL 186 FLUSH VALVE. 2" WASTE, 2" VENT, 3/4" CW

PLUMBING EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION																																								
F.D.	<u>FLOOR DRAIN:</u> WADE W-1102 - STD G-2 2" FLOOR DRAIN WITH SATIN BRONZE TOP, V.P. SCREW																																								
F.S.	<u>FLOOR SINK:</u> WADE W-9142-15. CAST IRON WITH A.R.E. INTERIOR, ALUMINUM DOME STRAINER, NICKEL BRONZE TOP AND 3/4 GRATE. V.P. SCREW, 2" SIZE.																																								
H.B.	<u>HOSE BIBB:</u> NIBCO NO. 63 VB., 3/4" WITH VACUUM BREAKER, HOSE THREAD.																																								
WHA	<u>WATER HAMMER ARRESTOR:</u> WADE NO. W-10, 3/4" SIZE, S/S HYDRO CHAMBER.																																								
WH	<u>WALL HYDRANT:</u> SMITH NO. 5509. FREEZEPROOF, 3/4" SIZE, L.K. OPERATOR, P.B. FACE, INTERNAL V.B.																																								
LST-1	<u>LUBRICANT STORAGE TANK:</u> ABOVE GROUND STORAGE TANK, STEEL CONSTRUCTION, SINGLE WALL, SUITABLE FOR SPECIFIED CONTENTS. TOTALLY ENCLOSED TANK FITTINGS SHALL INCLUDE FILL (4"), LEVEL (2") TRANSFER PUMP (4"), TWO SPARE FITTINGS (2"), AND AN EMERGENCY VENT (6") WITH FITTING. UL 142 LISTED.																																								
	<table><tr><th>SYMBOL</th><th>CAPACITY (GALLONS)</th><th>SIZE (FT)</th><th>CONTENTS</th></tr><tr><td>LST-1</td><td>500</td><td>3'-0" x 7'-0" x 3'-8" HI</td><td>MOTOR OIL</td></tr><tr><td>LST-2</td><td>500</td><td>3'-0" x 7'-0" x 3'-8" HI</td><td>ATF</td></tr><tr><td>LST-3</td><td>250</td><td>2'-6" x 4'-0" x 3'-8" HI</td><td>HYDRAULIC FLUID</td></tr></table>	SYMBOL	CAPACITY (GALLONS)	SIZE (FT)	CONTENTS	LST-1	500	3'-0" x 7'-0" x 3'-8" HI	MOTOR OIL	LST-2	500	3'-0" x 7'-0" x 3'-8" HI	ATF	LST-3	250	2'-6" x 4'-0" x 3'-8" HI	HYDRAULIC FLUID																								
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LP-1 THRU LP-4	<u>LUBRICANT PUMP:</u> LINCOLN MODEL "POWER MASTER III" PNEUMATIC DRIVER, RILEY COATING POSITIVE DISPLACEMENT TYPE, FURNISH WITH BRACKET FOR MOUNTING ON WALL (OR LST), FOOT VALVE & ADAPTER PUMP TUBE, COMPRESSED AIR FILTER, REGULATORS, GAUGES & LUBRICATOR.																																								
	<table><tr><th>SYMBOL</th><th>MODEL</th><th>CAPACITY (GPM)</th><th>PUMPED CONTENTS</th><th>C.A. CONSUMP. (SCFM)</th><th>C.A. SUPPLY CONN. (")</th><th>RATIO</th></tr><tr><td>LP-1</td><td>2052</td><td>2.5</td><td>MOTOR OIL</td><td>0.48</td><td>3/8</td><td>5:1</td></tr><tr><td>LP-2</td><td>2052</td><td>2.5</td><td>ATF</td><td>0.48</td><td>3/8</td><td>1:1</td></tr><tr><td>LP-3</td><td>2051</td><td>2.0</td><td>HYD. FLUID</td><td>0.40</td><td>3/8</td><td>5:1</td></tr><tr><td>LP-4</td><td>2053</td><td>3.5</td><td>ANTIFREEZE*</td><td>0.73</td><td>3/8</td><td>1:1</td></tr></table>	SYMBOL	MODEL	CAPACITY (GPM)	PUMPED CONTENTS	C.A. CONSUMP. (SCFM)	C.A. SUPPLY CONN. (")	RATIO	LP-1	2052	2.5	MOTOR OIL	0.48	3/8	5:1	LP-2	2052	2.5	ATF	0.48	3/8	1:1	LP-3	2051	2.0	HYD. FLUID	0.40	3/8	5:1	LP-4	2053	3.5	ANTIFREEZE*	0.73	3/8	1:1					
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	* SUITABLE FOR OPERATION & MOUNTING ON 55 GALLON DRUM.																																								
LDR-1 THRU LDR-7	<u>LUBRICANT DISPENSING REEL:</u> LINCOLN MODEL 3200/HDX, MEDIUM PRESSURE FOR LUBRICANTS, LOW PRESSURE FOR OIL & WATER, STEEL CONSTRUCTION. ROLLER SWIVELS, MOULDED OUTLET ROLLER OUTLET ASSEMBLY, SPRING RETURN, DUAL SEALS, FURNISH WITH CONNECTING AND DELIVERY HOSE, ADJ. BALL STOP VALVE AND CONTROL VALVES.																																								
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LDR-7*	-	30' ELEC.CORD	SERVICE LIGHT	PISTOL GRIP HANDLE, BULB & REFLECTOR/GUARD																																					
	FURNISH REEL ENCLOSURE CABINET, STEEL CONSTRUCTION, BAKED ENAMEL FINISH, 7 REEL SIZE, COMPLETE WITH MOUNTING RAILS AND ACCESSORIES, FOR VERTICAL INSTALLATION, END PANELS. LINCOLN MODEL NO 83876.																																								
	* UL APPROVED, GROUNDED TYPE SIDE OUTLET, 120V.																																								
MCV	<u>METERING CONTROL VALVE:</u> LINCOLN MODEL NO. 870 STATIONARY TYPE, SUITABLE FOR WALL MOUNTING, 3 1/2" DIAMETER DIAL, CONTROL TOTALIZING, 2 @ 1/2" CONNECTIONS. FOR USE WITH REELS LDR-1, 2, 3, & 4. 1000 PSI O.P. (MAXIMUM)																																								
SAC	<u>SHOP AIR COMPRESSOR:</u> RECIPROCATING, 2 STAGE, 2 CYLINDER BELT DRIVEN, AIR COOLED, RECEIVER 60 GAL. TANK (VERTICAL) MOUNTED. 15 CFM AT 100 PSIG AT 5000 FEET ELEVATION, 175 PSIG WORKING PRESSURE, 5 HP MOTOR 208V-3 PH-60 HZ. FURNISH WITH RELIEF VALVE, ADJUSTABLE PRESSURE SWITCH, PRV STATION, BELT GUARD. QUINCY MODEL QE-5.																																								
RAD	<u>REFRIGERATED AIR DRYER:</u> 1/4 HP, 120V-1 PH-60 HP COMPRESSOR, AIR COOLED, WALL MOUNTED, -12°F DEWPOINT, 20 CFM @ 100 PSIG CAPACITY, COMPRESSED AIR INLET & OUTLET CONNECTIONS, DRAIN CONN.																																								
ACS-1	<u>ACCESS SYSTEM CONTROL (LUBRICANTS):</u> AMCI CO. MODEL AMS-303-50 ACCESS SYSTEM CONSISTING OF A WEATHERPROOF MAGNETIC CARD READER, AND PIN ACCESS, SUITABLE FOR WALL MOUNTING. PROGRAMMABLE AND MEMORY TO ADD OR DELETE CARDS. THE CARD READER ENERGIZES A CONTROL PANEL WHICH OPENS AIR SOLENOID VALVES ON THE LUBRICANT DISPENSING SYSTEMS (4 TOTAL). A PANEL MOUNTED TIMER ALLOWS DISPENSING OPERATIONS FOR 3 MINUTES (ADJUSTABLE FROM 1 TO 5 MINUTES). AFTER THE LUBRICANT DISPENSING CYCLE, THE SYSTEM IS DEENERGIZED.																																								
GF-1	<u>GAS FURNACE:</u> RHEEM MODEL RCWD-060, NATURAL GAS FIRED, GAS APPROVED WITH 100% SAFETY CUT-OFF, ORIFICED FOR 5,500 FT. ELEVATION - 60,000 BTUH SL. INPUT, DIRECT DRIVE, 850 CFM @ 0.12" SP. 1/8 HP 120V - 1PH-60 HZ. MOTOR, PROVIDE RXGF-A02A FILTER FRAME, 20" x 25" x 1" FILTER, CHRONOTHERM THERMOSTAT, AND TOP FLUE CONNECTION.																																								
IC-1	<u>IRRIGATION CONTROLLER:</u> 8 STATION SPRINKLER CONTROL SYSTEM WITH LOCKABLE COVER, 24 VOLT TRANSFORMER & SEVEN DAY - 24 HOUR TIME CLOCK. PROGRAMMABLE SOLID STATE CONTROLLER SHALL BE CAPABLE OF VARYING EACH OF THE EIGHT CIRCUITS FROM 5 TO 60 MINUTES. EACH CIRCUIT SHALL BE CAPABLE OF AT LEAST TWO START TIMES PER DAY. UNIT SHALL INCLUDE SWITCH FOR MANUAL OR AUTOMATIC OPERATION.																																								



HOLMES & NARVER, INC.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: FOURTH STREET FUELING FACILITY
SCHEDULES & DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Choir					
Trans. Dev.					
Utility Dev.					

PROJECT NO.	4309.90	MAP NO.	H14.J14	SHEET	M4 ^{OF}	25
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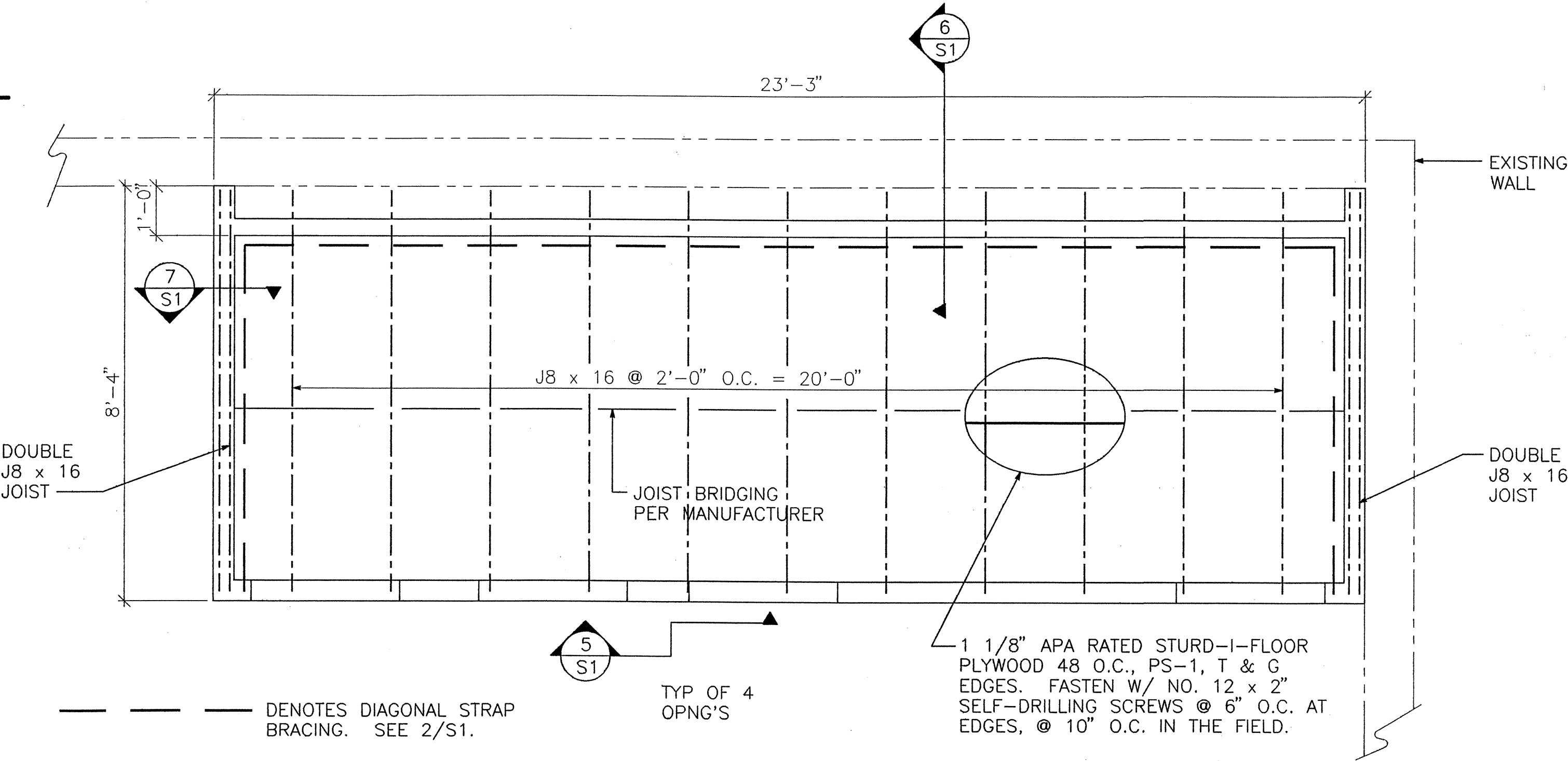
GENERAL NOTES - COLD FORMED METAL FRAMING

1. SECTION PROPERTIES

SECTION	THICKNESS	DEPTH IN.	FLANGE WIDTH, IN.	S_{MIN} IN ³	I_{MIN} IN ⁴
C4 x 16	16 GA.	4	1-5/8	0.57	1.15
J8 x 16	16 GA.	8	1-5/8	1.51	6.04

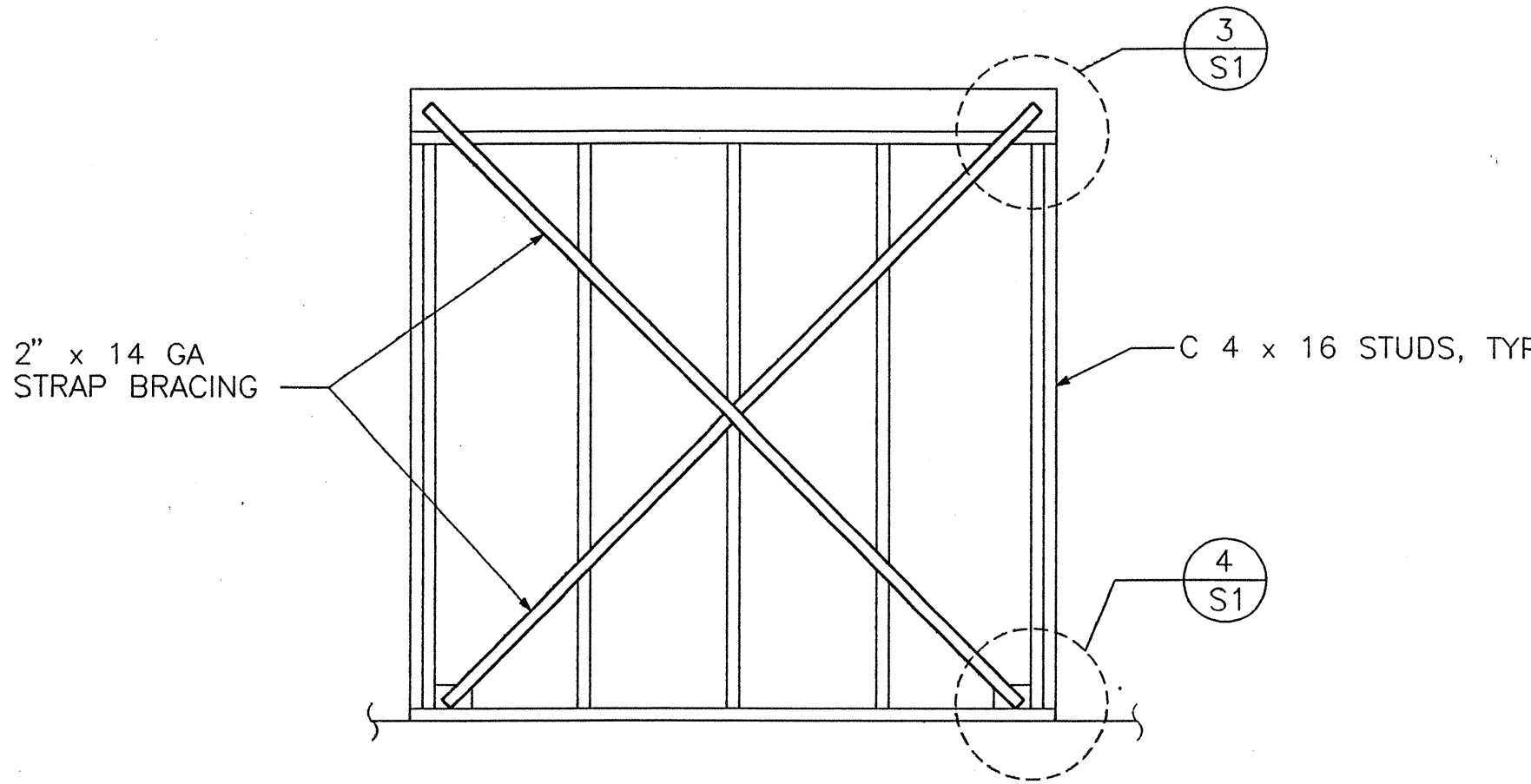
ALL SECTIONS SHALL HAVE FLANGE RETURN LIP.

- USE WELD SIZE EQUAL TO THICKNESS OF THINNER PIECE JOINED UNLESS NOTED.
- PROVIDE C4 x 16 STUD UNDER EACH END OF JOIST.
- PROVIDE DOUBLE C4 x 16 STUD AT FOLLOWING LOCATIONS:
A. AT EACH END OF 'X' STRAP BRACING.
B. AT EACH END OF HEADERS OVER OPENINGS.
- PROVIDE BEARING STIFFENER AT EACH END OF EACH JOIST, SIZE AS RECOMMENDED BY MANUFACTURER BUT NO LESS THAN STUD SECTION 3-5/8" DEEP x 16 GAGE WITH 1-3/8" FLANGE AND FLANGE RETURN LIP.
- FASTEN MULTIPLE STUDS AND JOISTS WITH 1" LONG WELDS AT 24" ON CENTER EACH SIDE, MINIMUM.
- DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE NOTED.



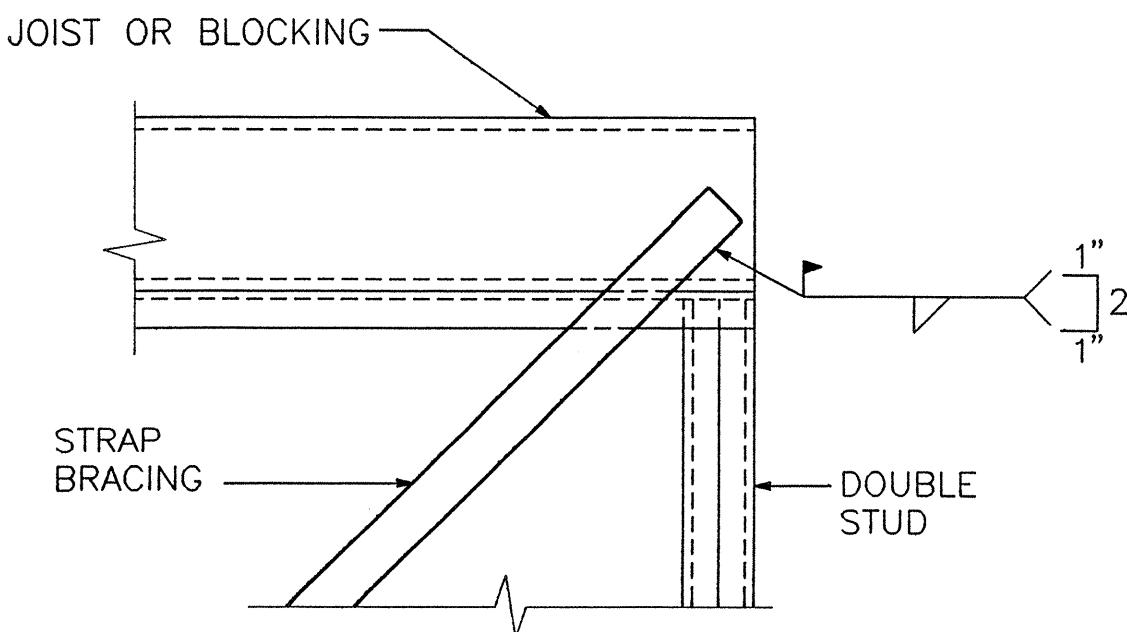
MECHANICAL ROOM FRAMING PLAN

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



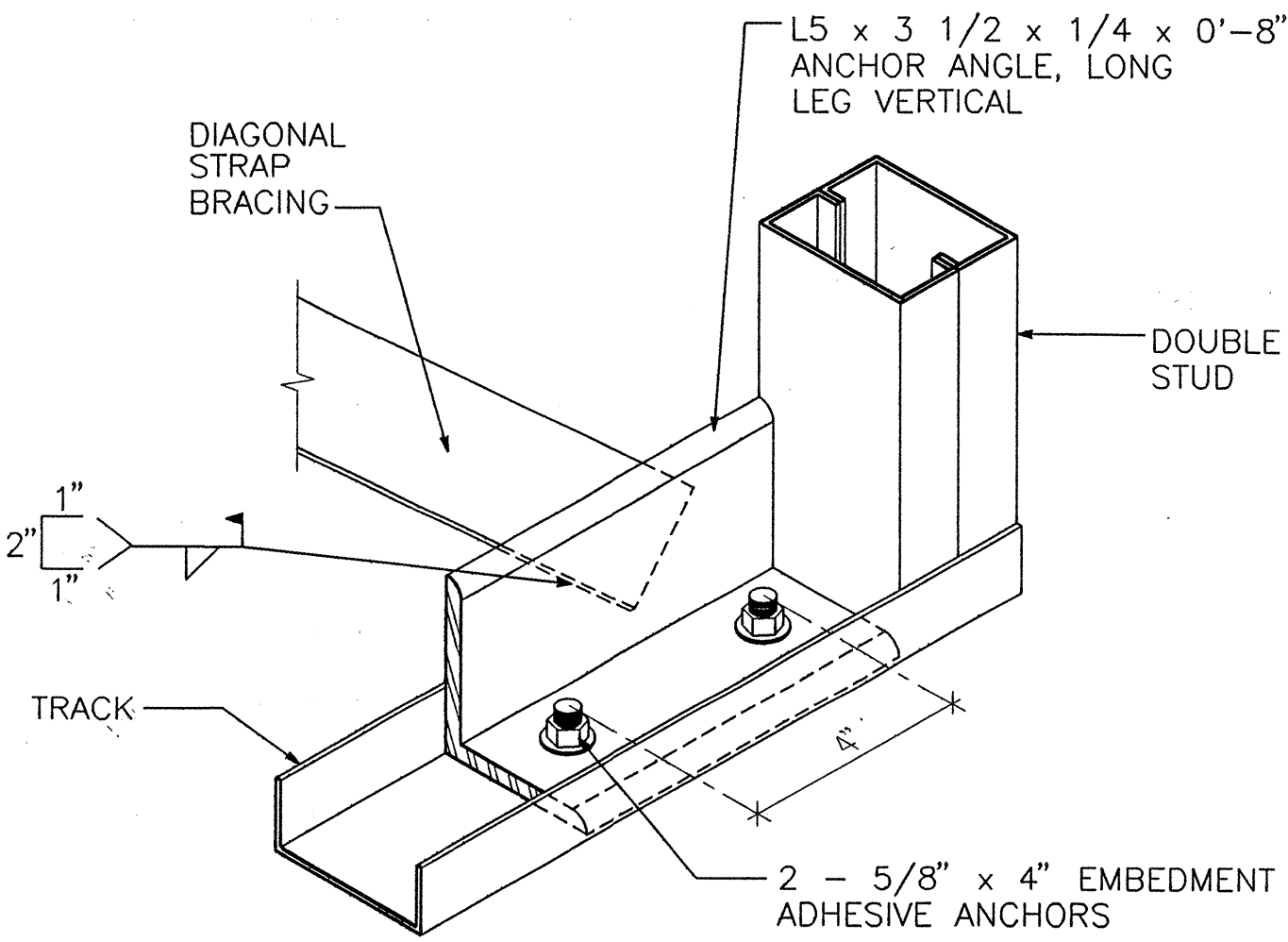
DETAIL - TYPICAL BRACING

SCALE: NONE



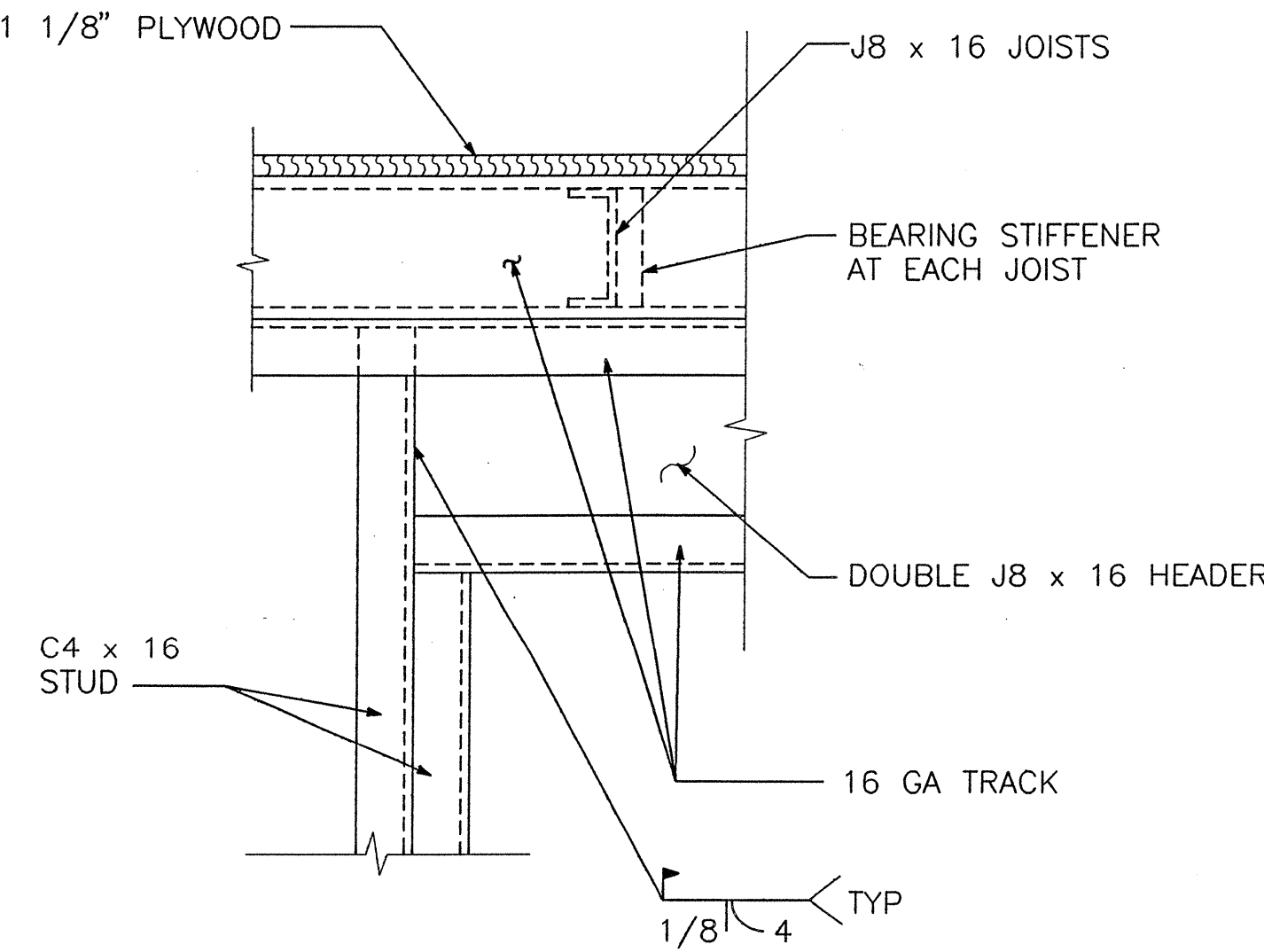
DETAIL

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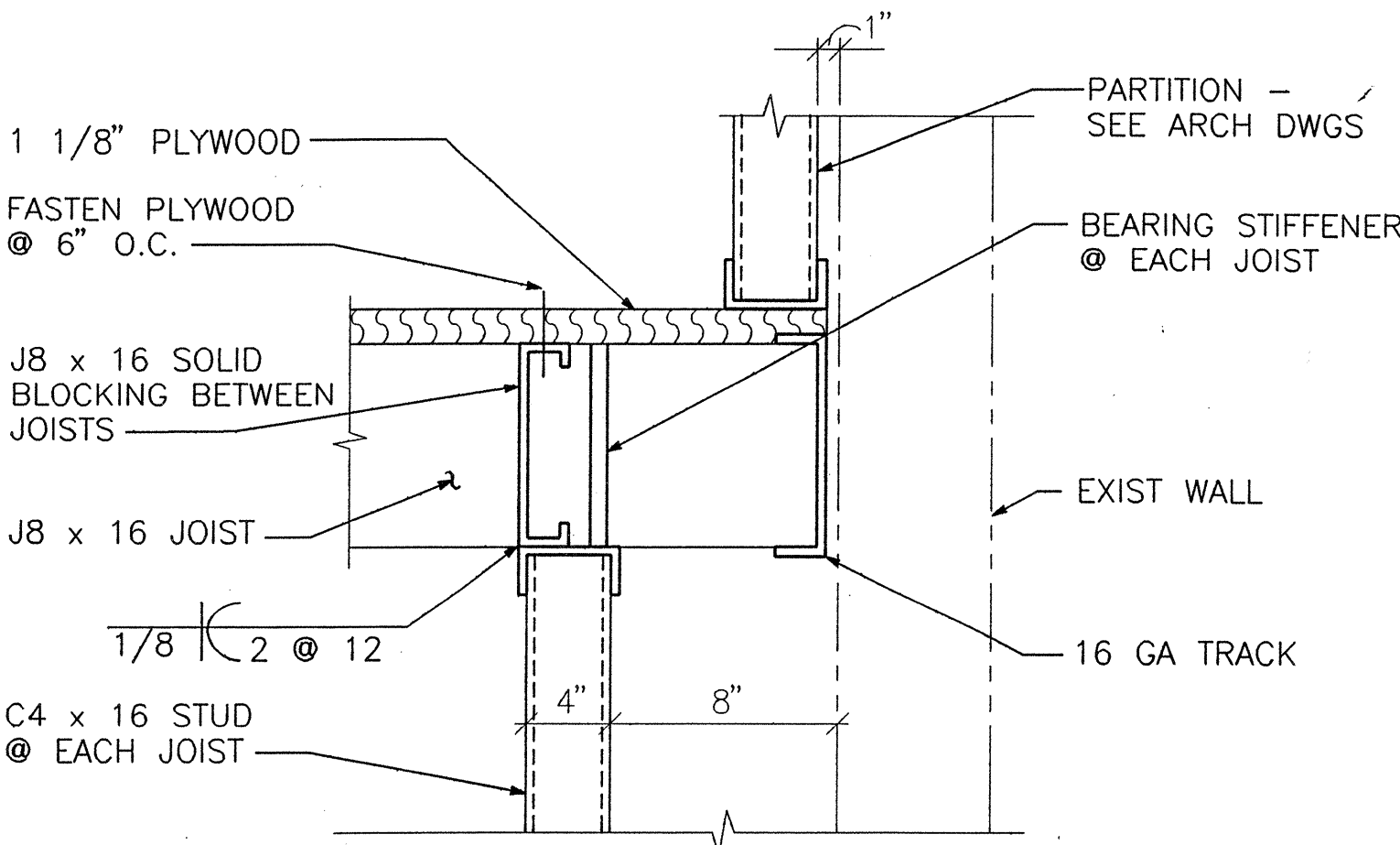
DETAIL

SCALE: NONE



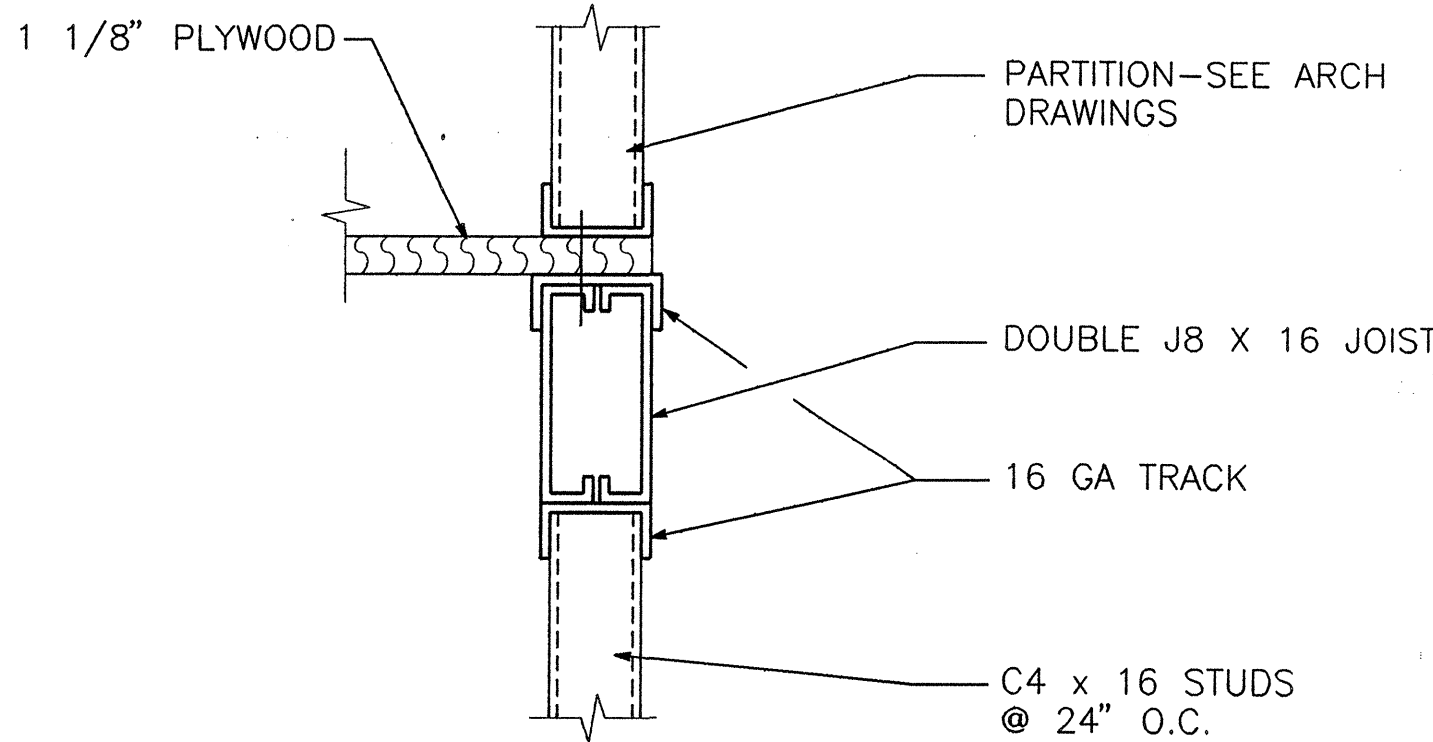
SECTION

SCALE: NONE



SECTION

SCALE: NONE



SECTION

SCALE: NONE

1/2" = 1'-0" 0 1 2 3 4 5 6 FT.

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HOLMES & NARVER, INC.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: FOURTH STREET FUELING FACILITY
MECHANICAL ROOM PLAN AND DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair					
Trans. Dev.					
Utility Dev.					

PROJECT NO. 4309.90 MAP NO. H14.J14 SHEET S1 OF 25

AS BUILT INFORMATION	
CONTRACTOR	NO.
WORK STARTED BY	DATE
WORK STOPPED BY	DATE
FIELD ACCEPTANCE BY	DATE
CONSTRUCTION BY	DATE
CONTRACTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE

BENCH MARKS	
NO.	DATE

SURVEY INFORMATION	
FIELD NOTES	DATE
NO.	BY

ENGINEER'S SEAL	
NO.	DATE

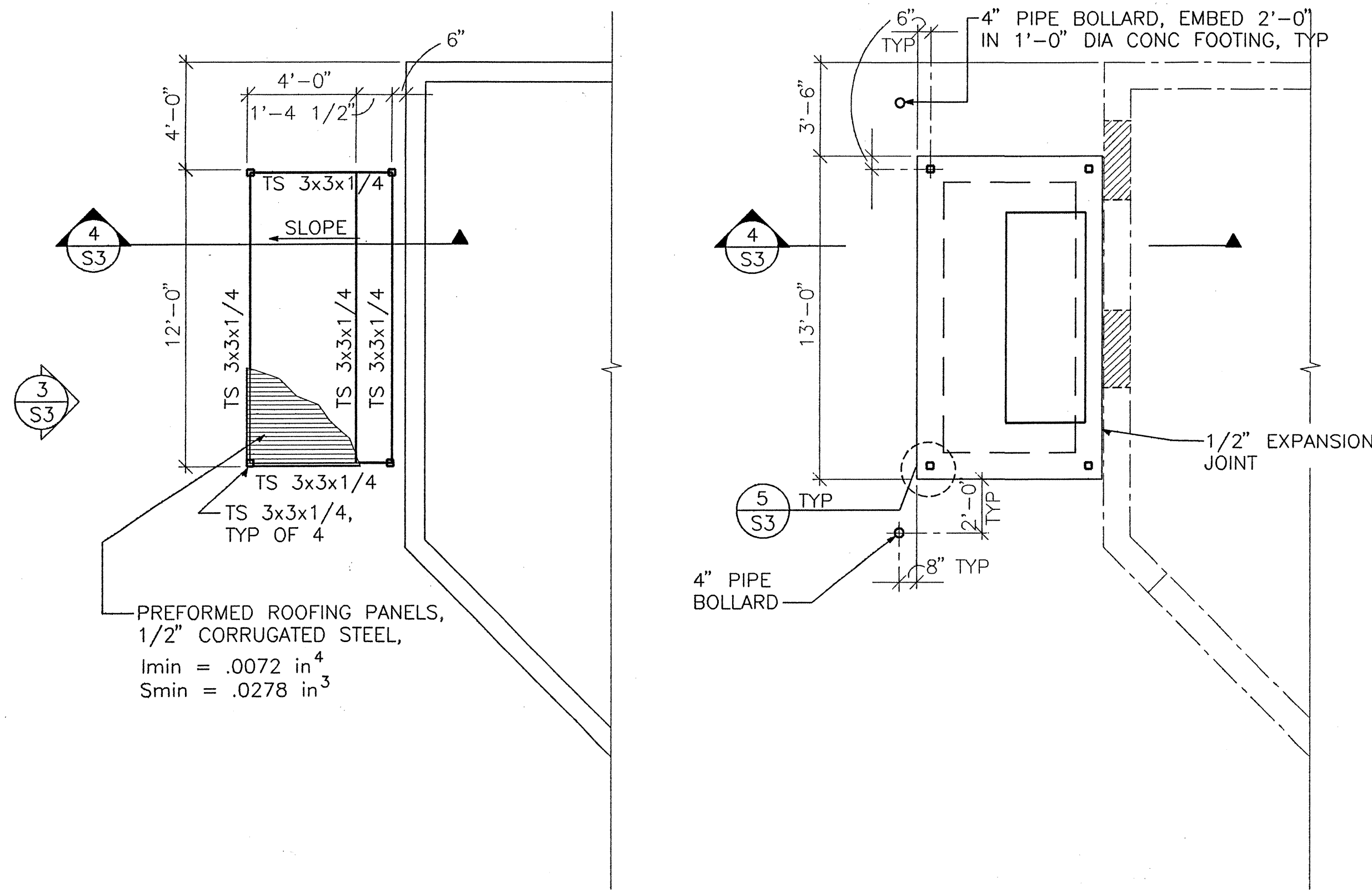
REVISIONS	
NO.	DATE
DESIGN	
DESIGNED BY: WLG	DATE:
DRAWN BY: DOW	DATE:
CHECKED BY: P. ROYBAL	DATE: JAN. 1992

PROJECT NO.	4309.90	MAP NO.	H14.J14	SHEET	S2	OF	25
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TIME: 04-02-92 08:50:49

DWG: M:\CAD\2486.03\M.S3

HN

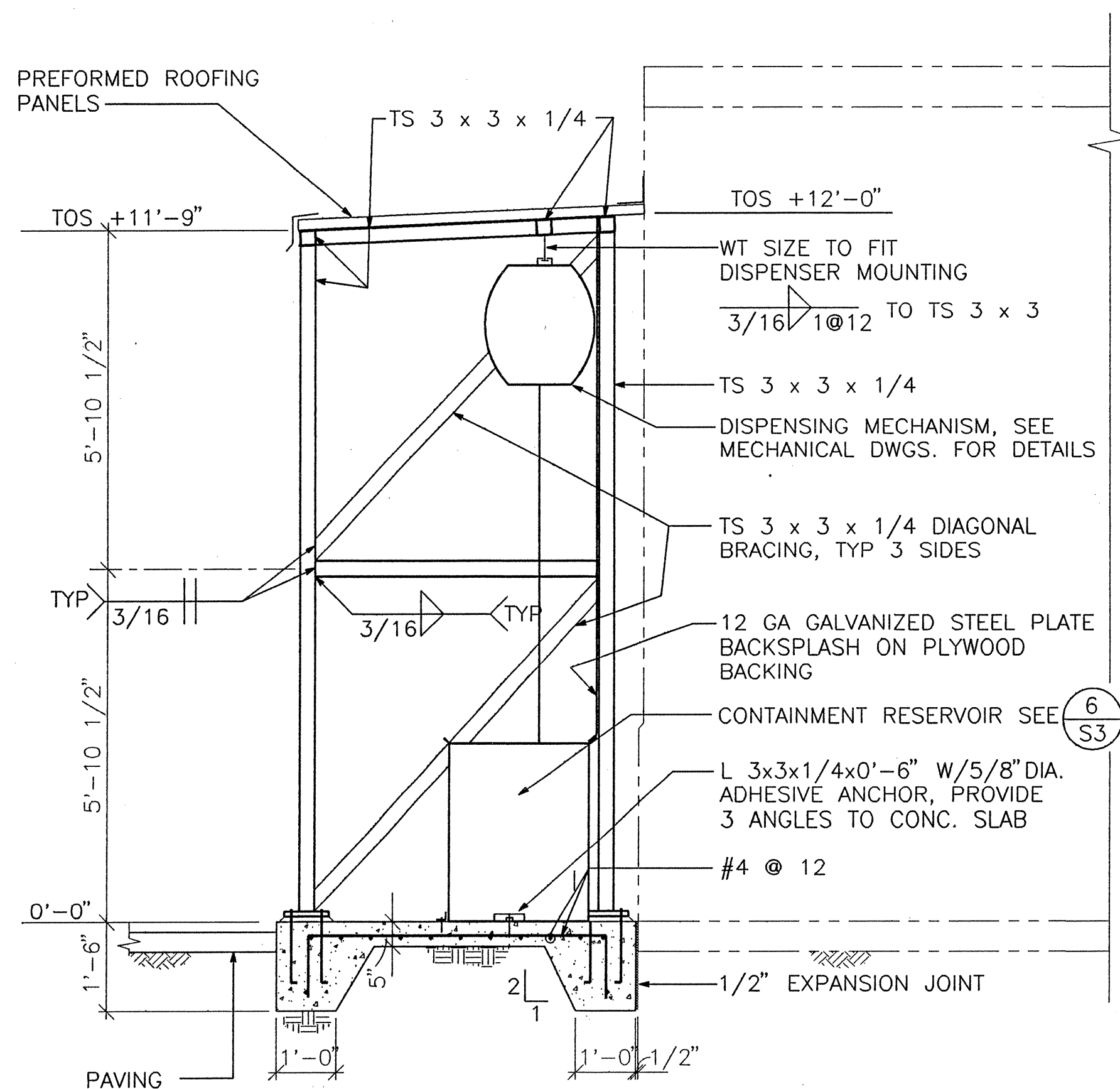


ROOF PLAN

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

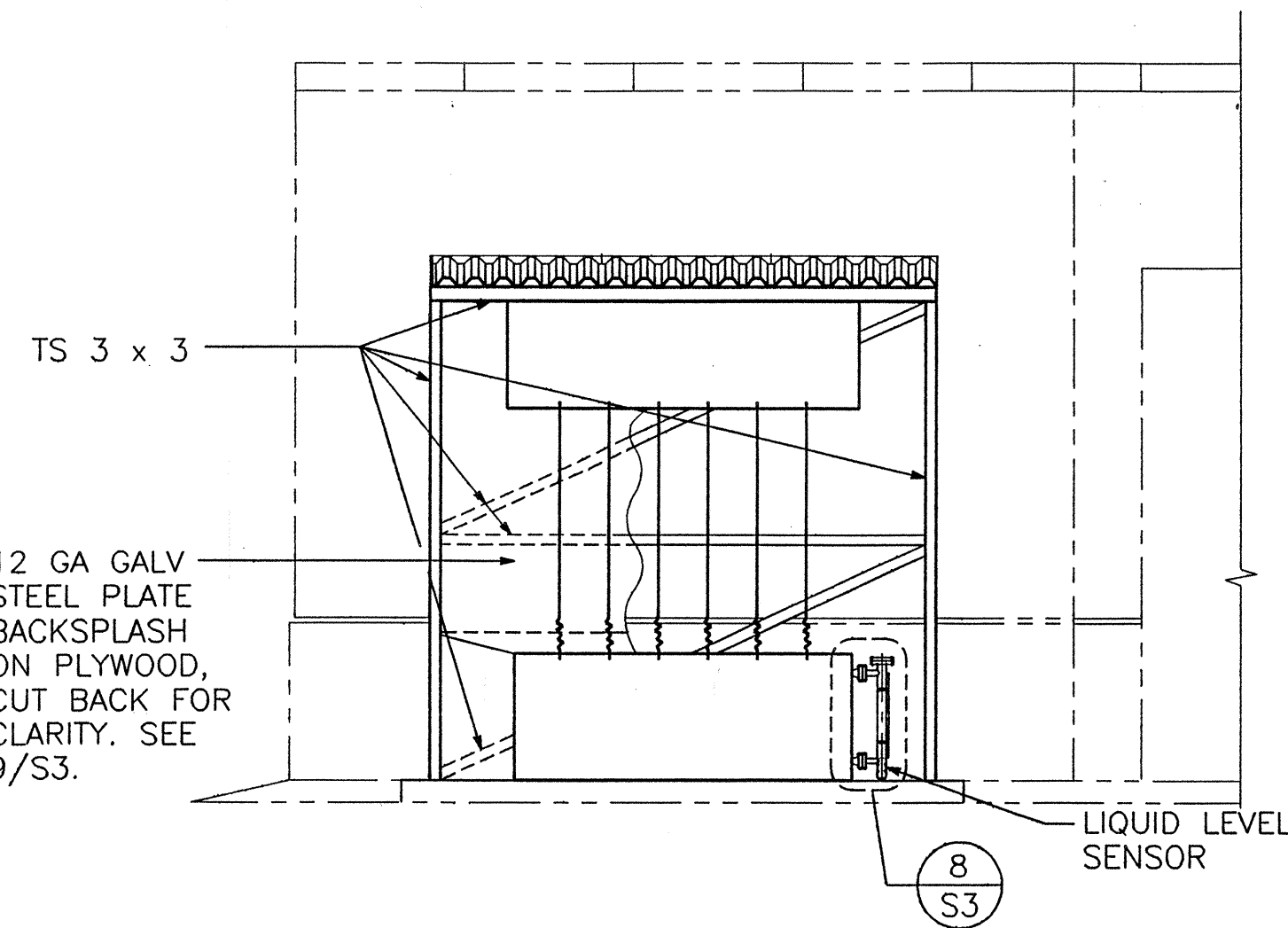
FOUNDATION PLAN

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



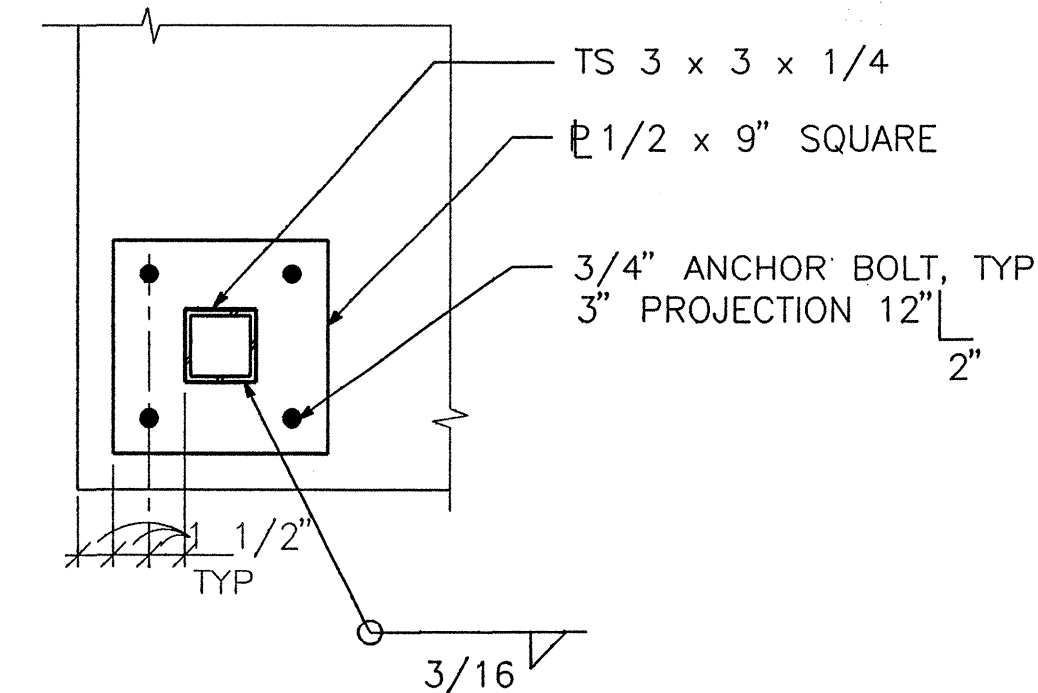
SECTION

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



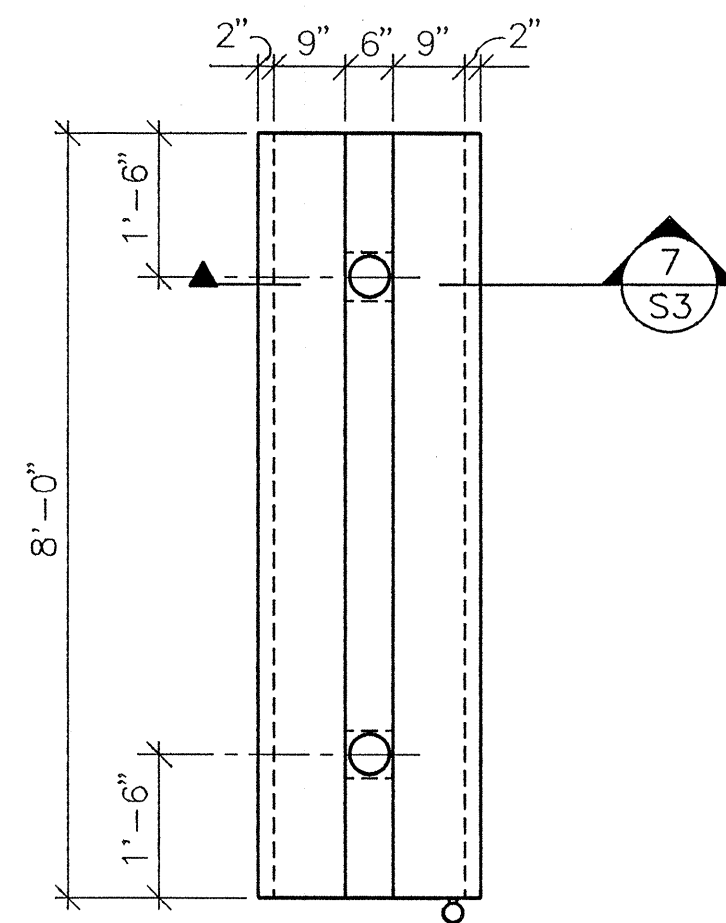
ELEVATION

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



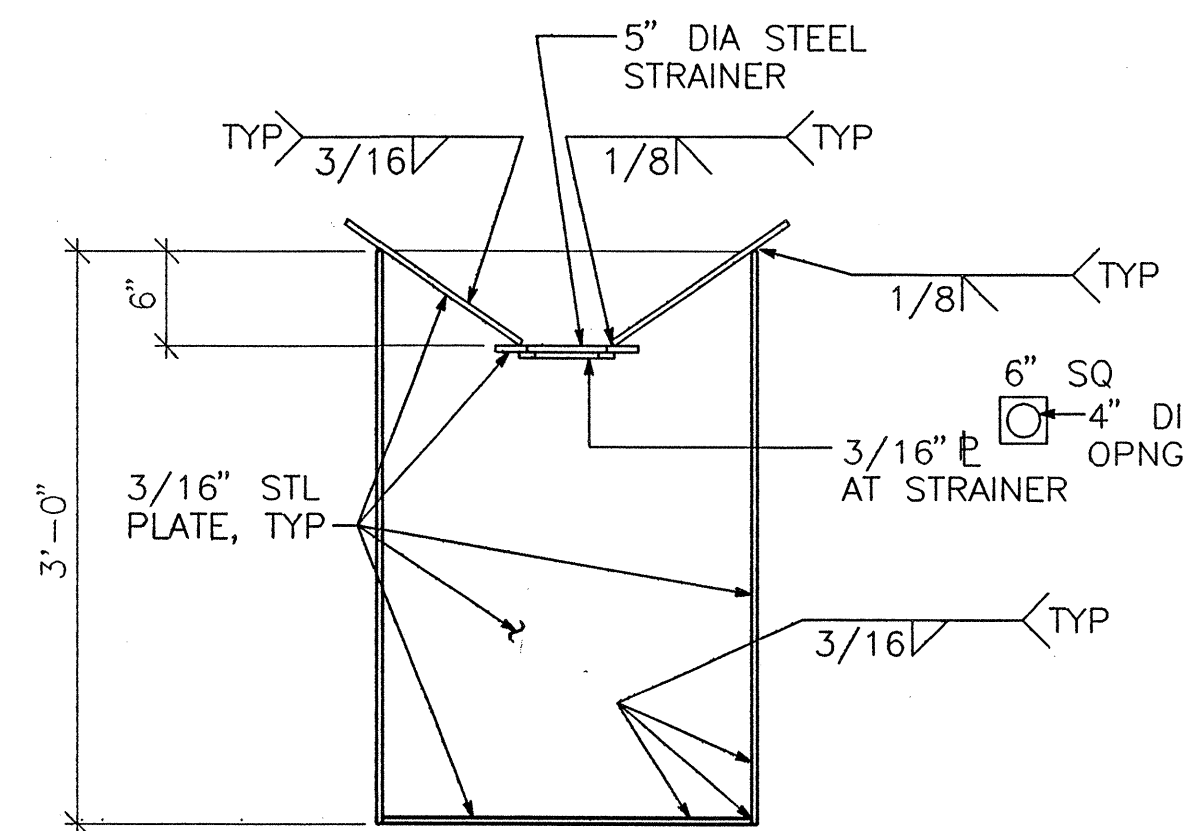
DETAIL

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



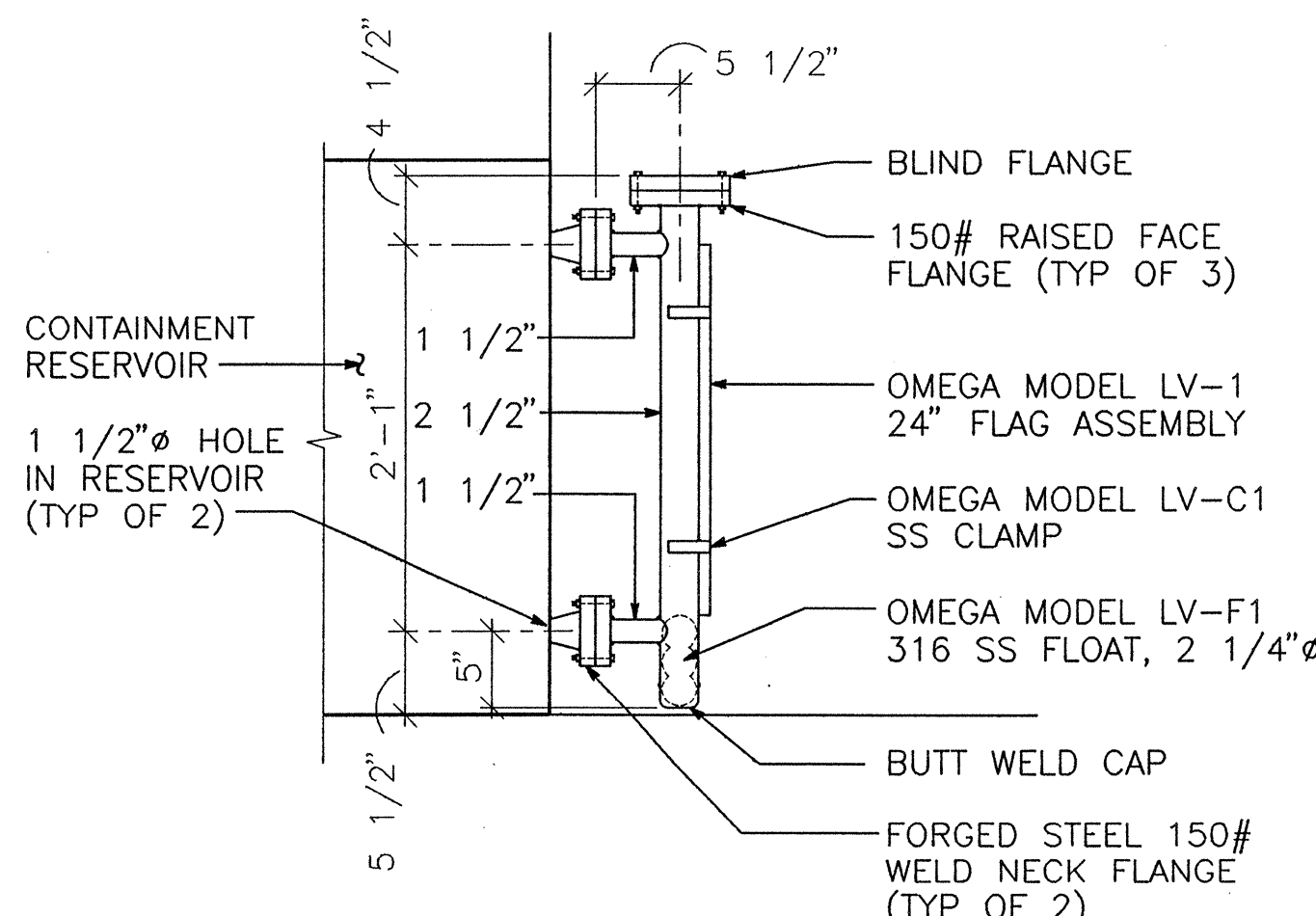
DETAIL

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



DETAIL

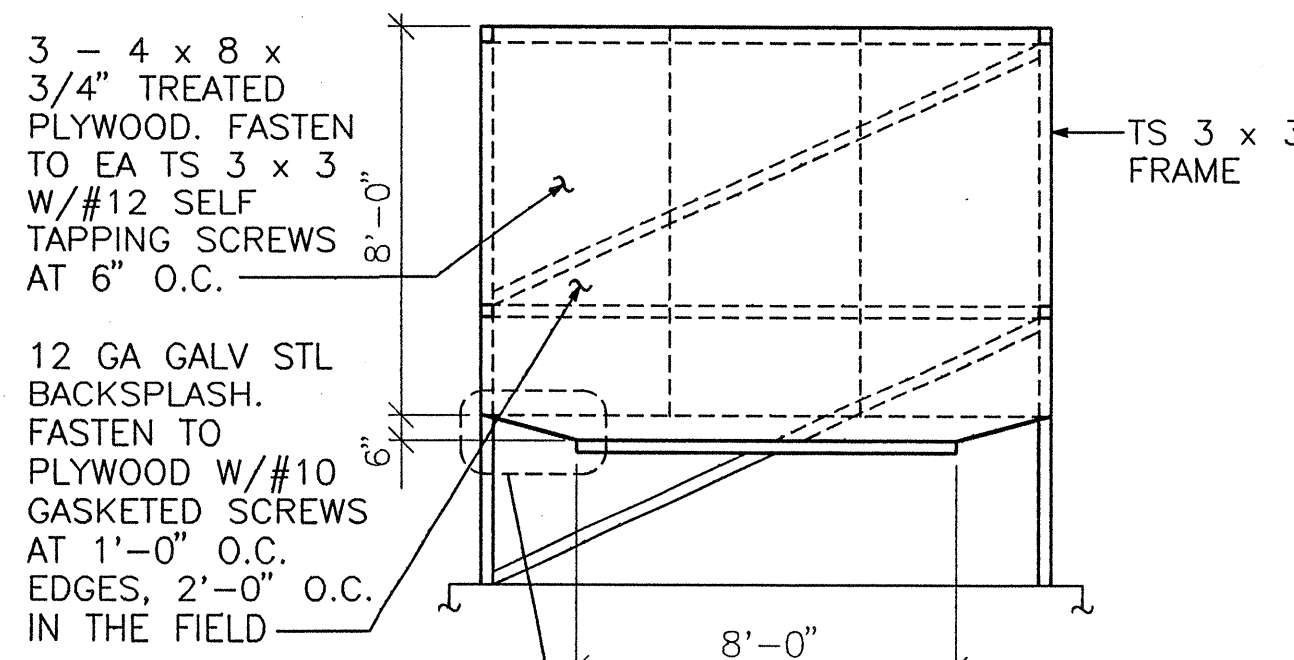
SCALE: 1" = 1'-0"



NOTE: ALL PIPE & FITTINGS SHALL BE SCHEDULE 40, TYPE 316 STAINLESS STEEL UNLESS NOTED OTHERWISE. GASKETS SHALL BE REINFORCED TEFLON.

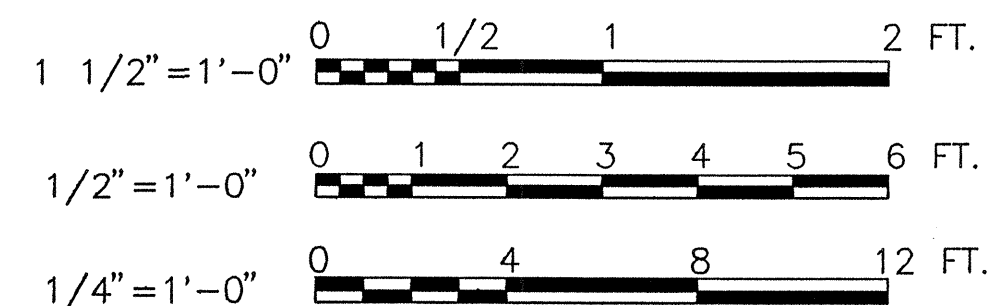
DETAIL

SCALE: 1" = 1'-0"



DETAIL

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



HN
HOLMES & NARVER, INC.

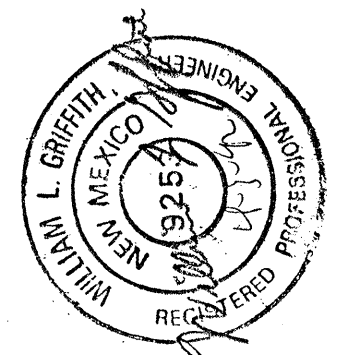
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: FOURTH STREET FUELING FACILITY
HOSE REEL FRAME DETAILS

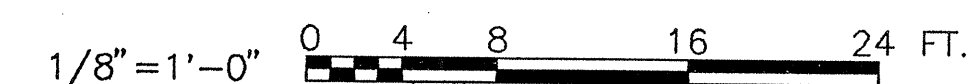
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair					
Trans. Dev.					
Utility Dev.					

PROJECT NO. 4309.90 MAP NO. H14,J14 SHEET S3 OF 25

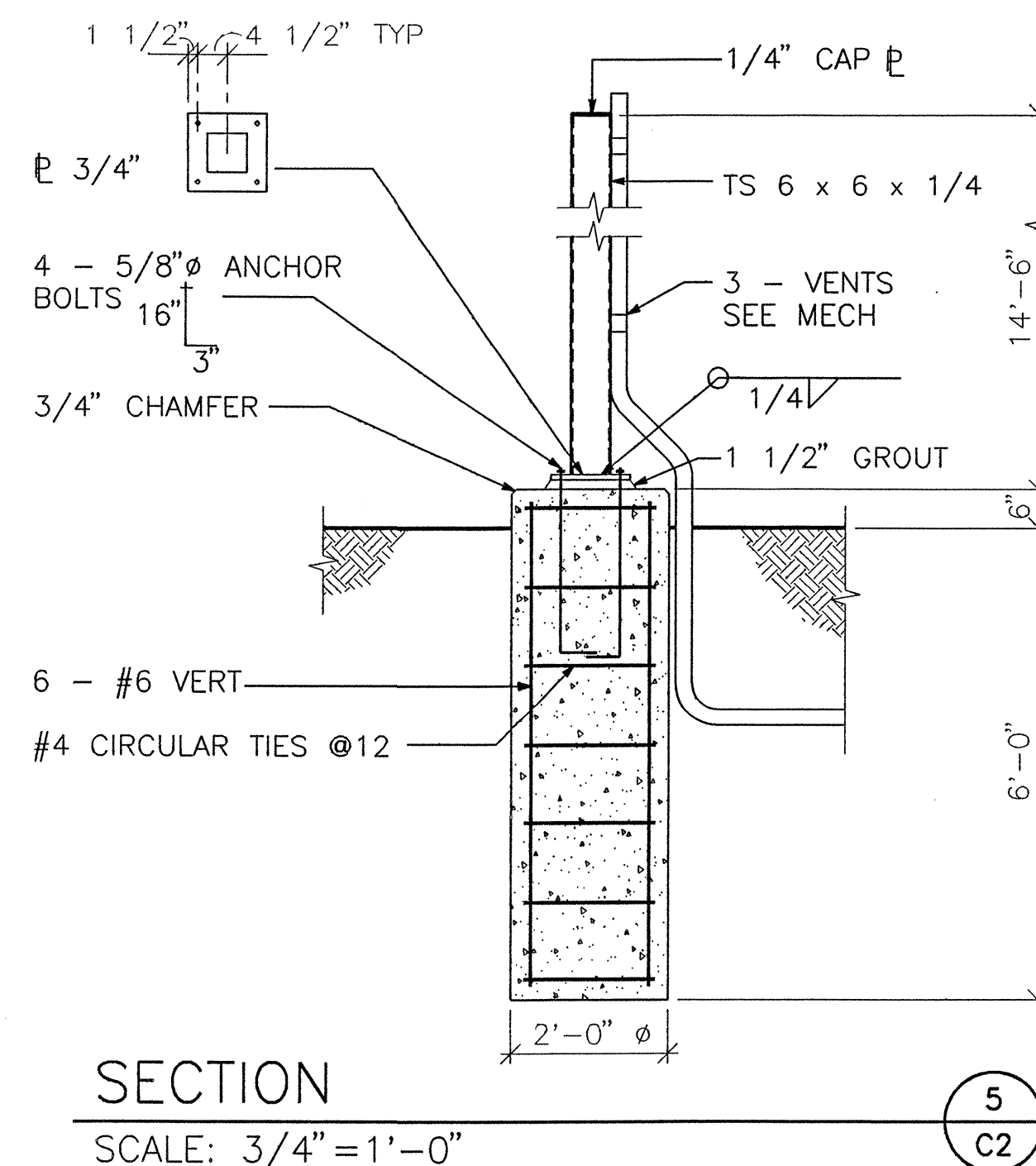
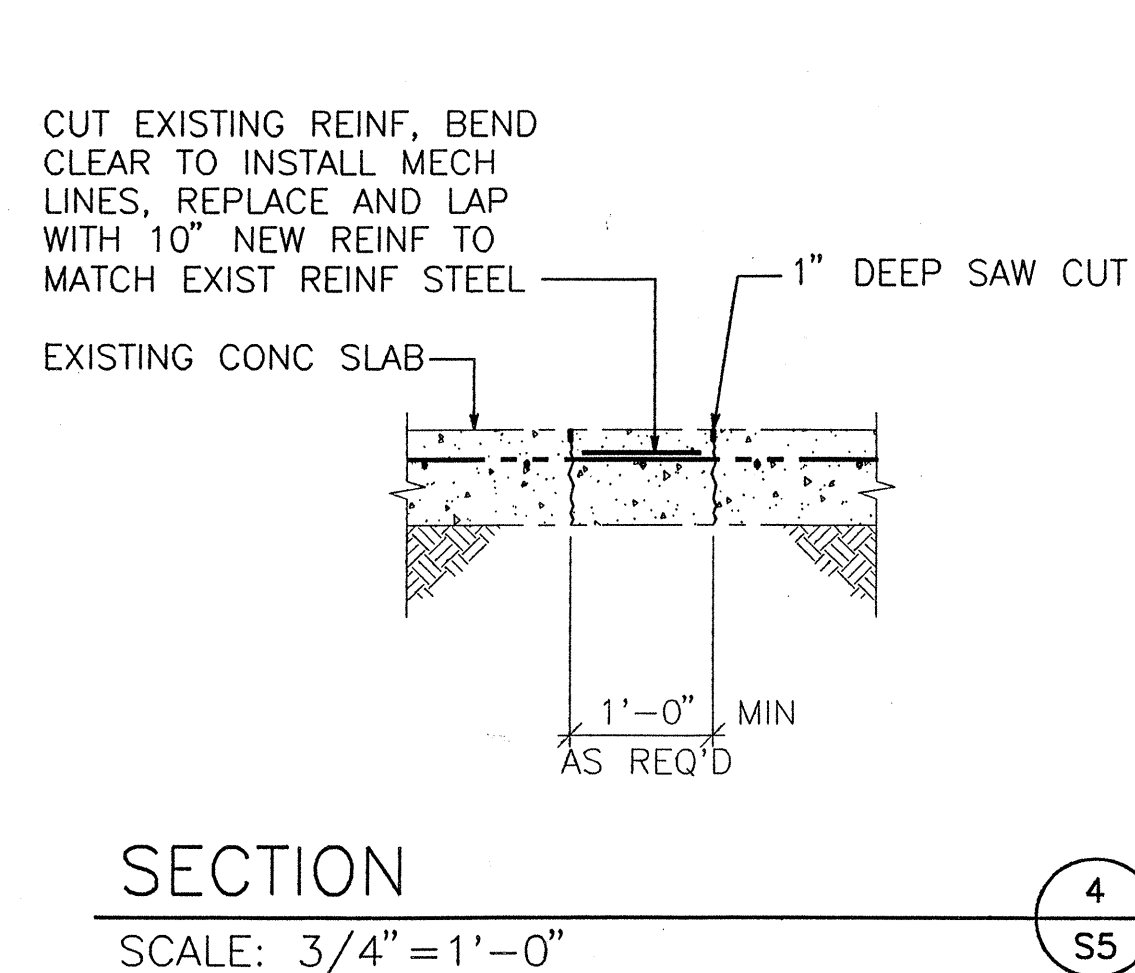
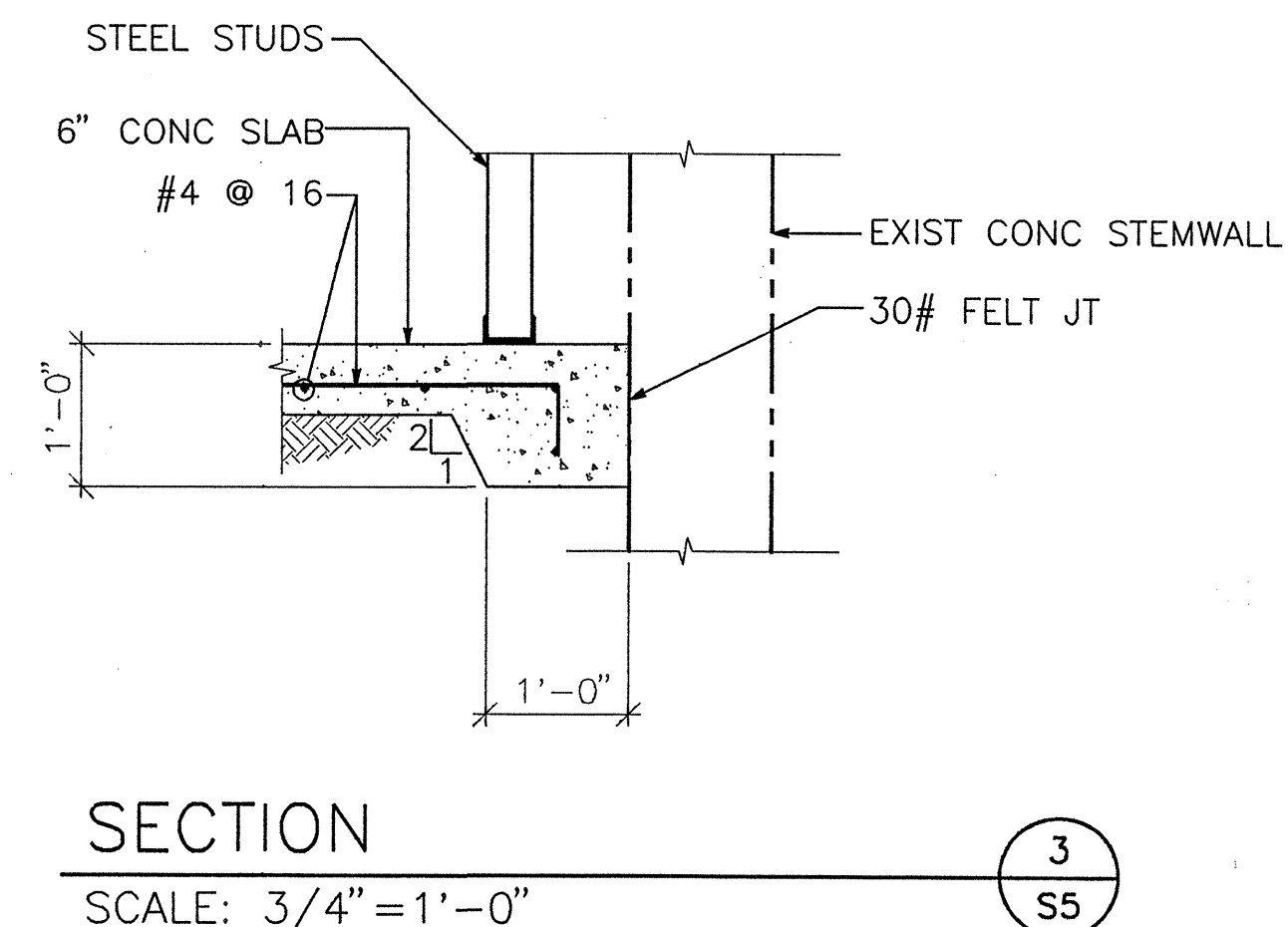
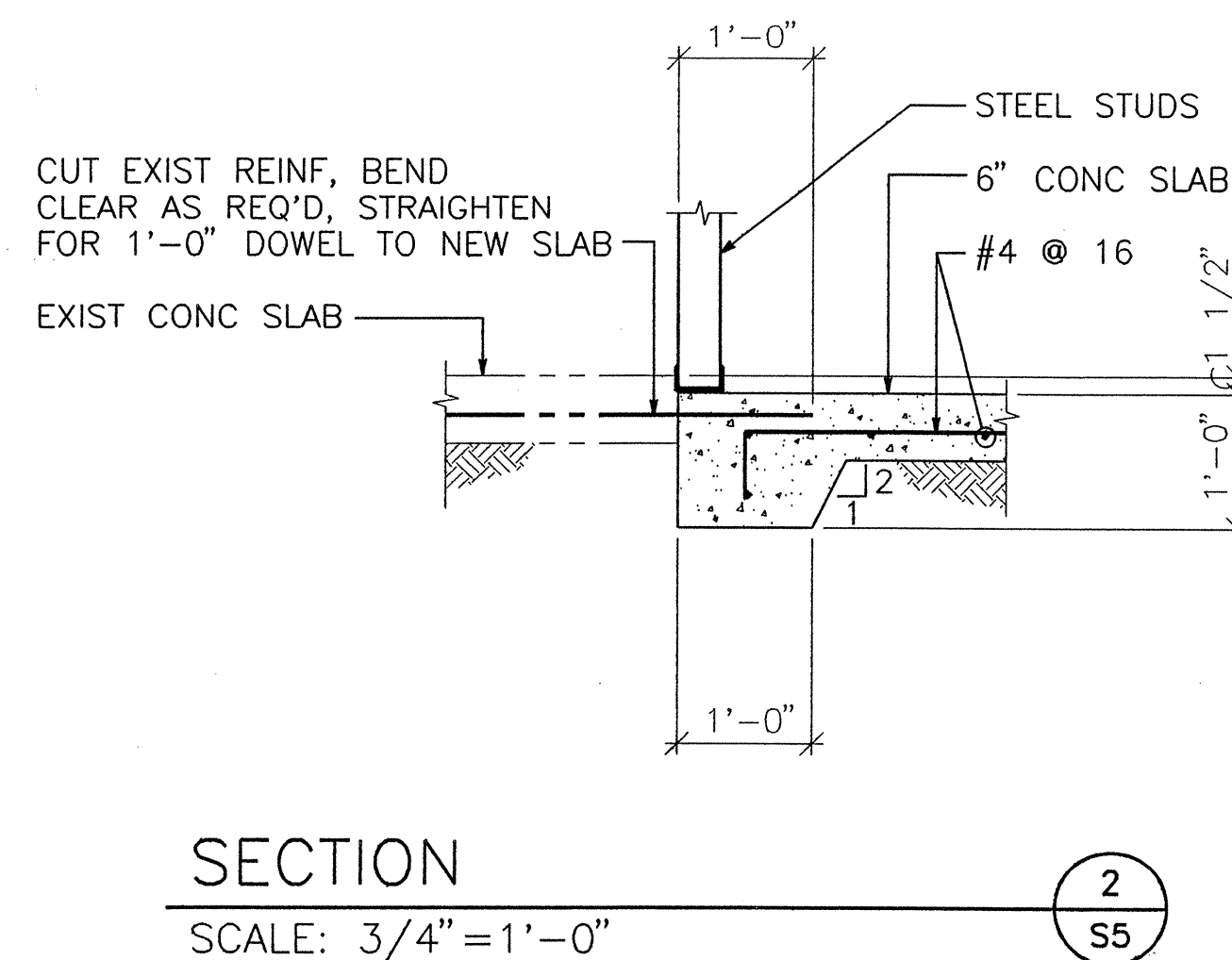
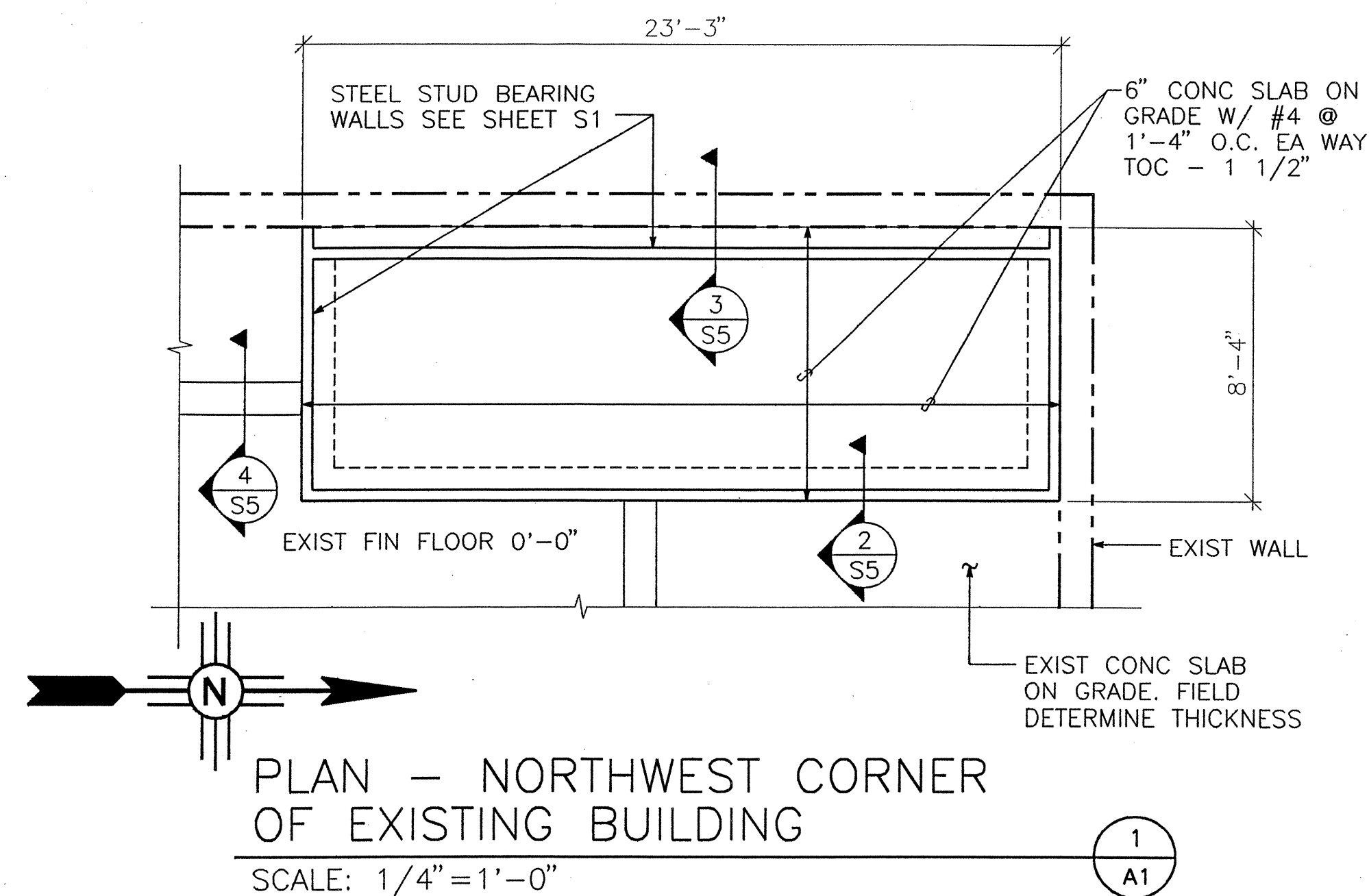
AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONDUCTOR	DATE	NO.	DATE	FIELD BY	DATE	NO.	DATE
STARTED BY	DATE						
INSPECTOR'S	DATE						
FIELD	DATE						
VERIFICATION BY	DATE						
CONDUCTED BY	DATE						
MICRO-FILM INFORMATION		REMARKS		DESIGN		REVISIONS	
RECORDED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE



DESIGNED BY: WLG
DRAWN BY: DGW
CHECKED BY: P. ROYBAL
DATE: JAN. 1992



PROJECT NO.	4309.90	MAP NO.	H14,J14	SHEET	S4 OF 25
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HOLMES & NARVER, INC.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: FOURTH STREET FUELING FACILITY
 CONCRETE FLOOR AND MISCELLANEOUS DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair					
Trans. Dev.					
Utility Dev.					

PROJECT NO.	4309.90	MAP NO.	H14,J14	SHEET	S5 OF	25
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