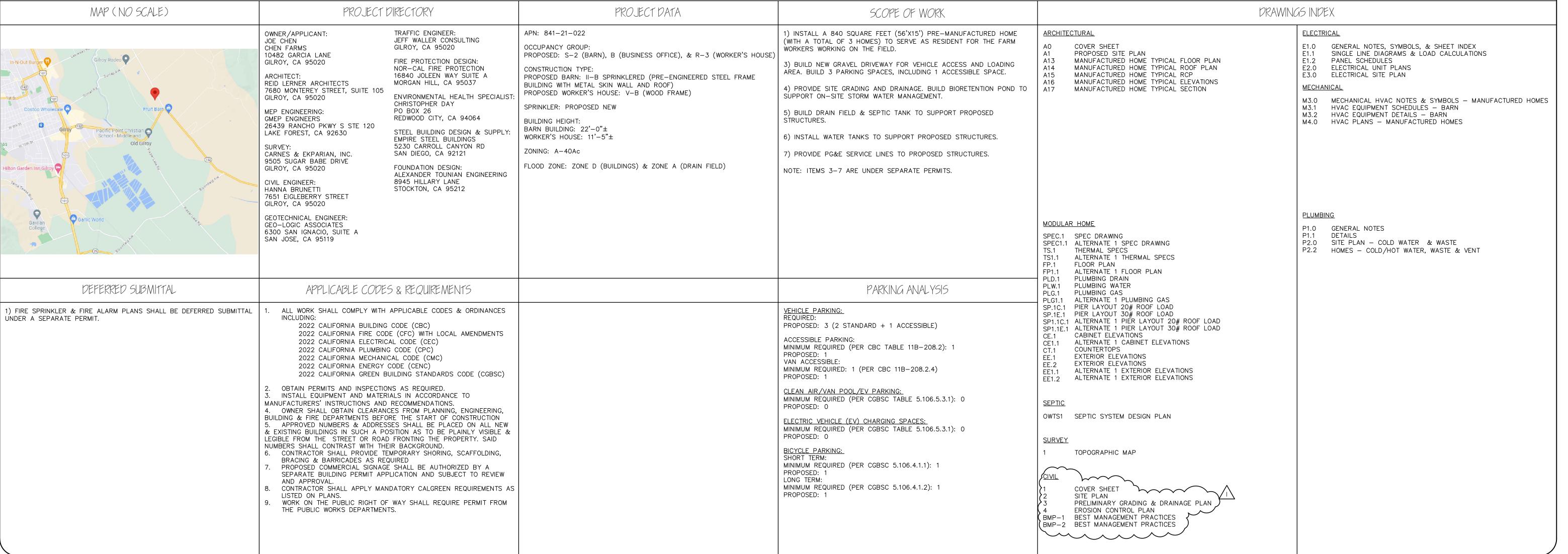
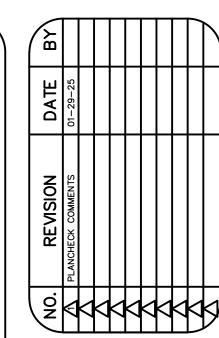
PROPOSED MANIFACTIRED HOMES ATCHENFARM 2740 FERGUSON ROAD alroy, CA 95020 SANTA CLARA COUNTY APN: 841-21-022







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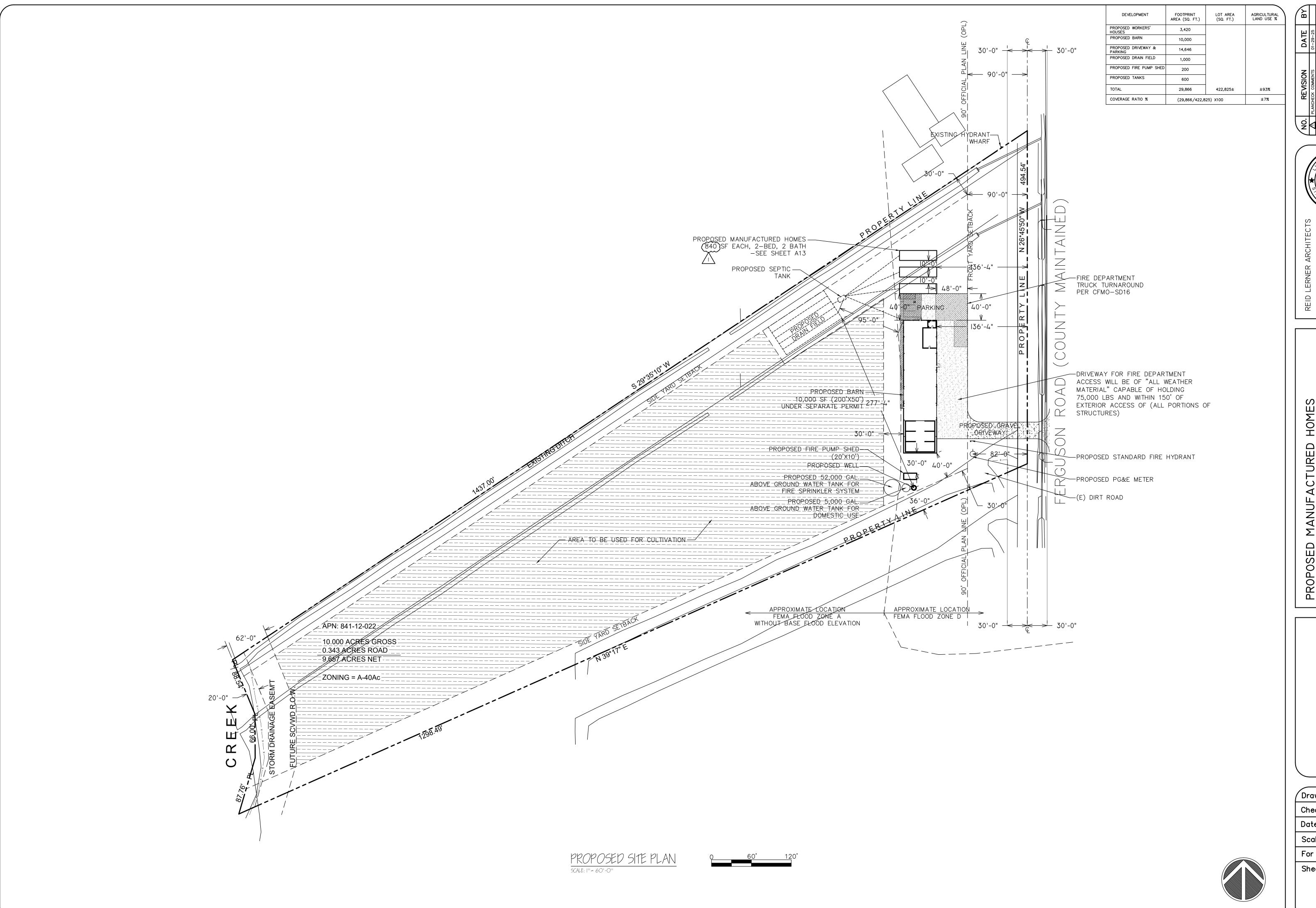
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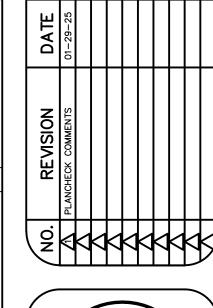
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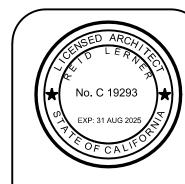
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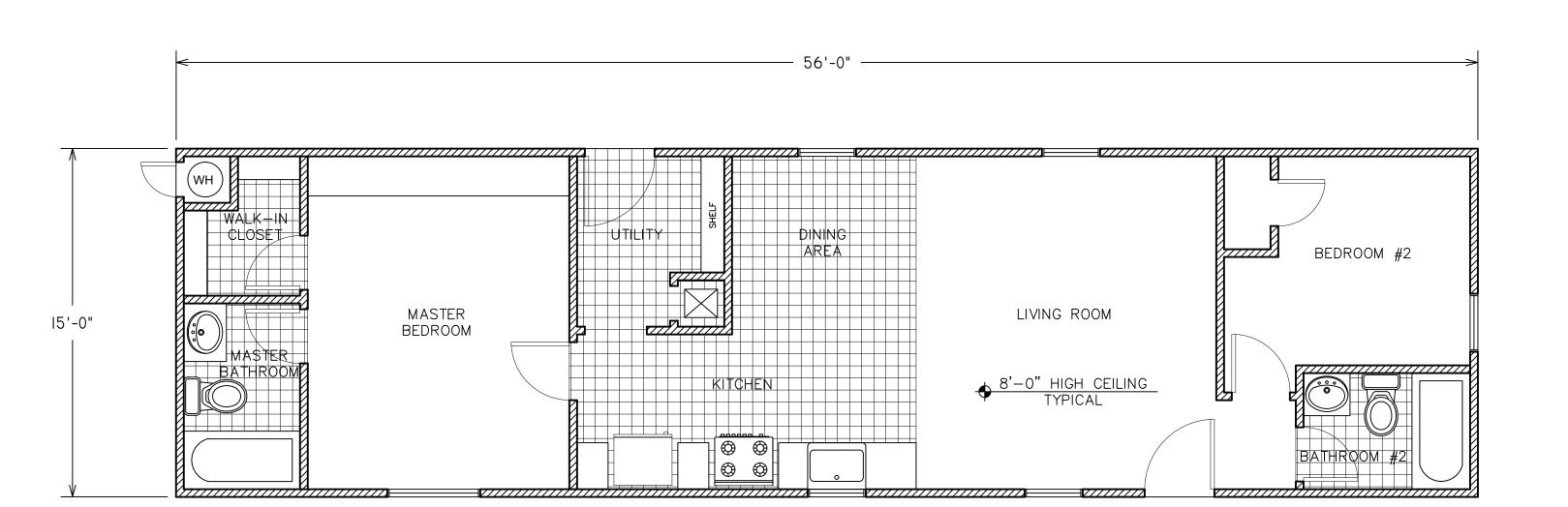
PHONE 408-842-9942
REIDLERNER@YAHOO.COM
7680 MONTEREY ST #105
GILROY, CA 95020

PHONE 408-842 REIDLERNER®YAH 7680 MONTERE

CHEN FARM 2740 FERGUSON ROAD SILROY, CA 95020 SANTA CLARA COU

OPOSED SITE PLAN

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Checked RL
Date 08/08/23
Scale AS NOTED
For PLANCHECK
Sheet



TYPICAL MANUFACTURED HOME FLOOR PLAN (3 TOTAL)

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

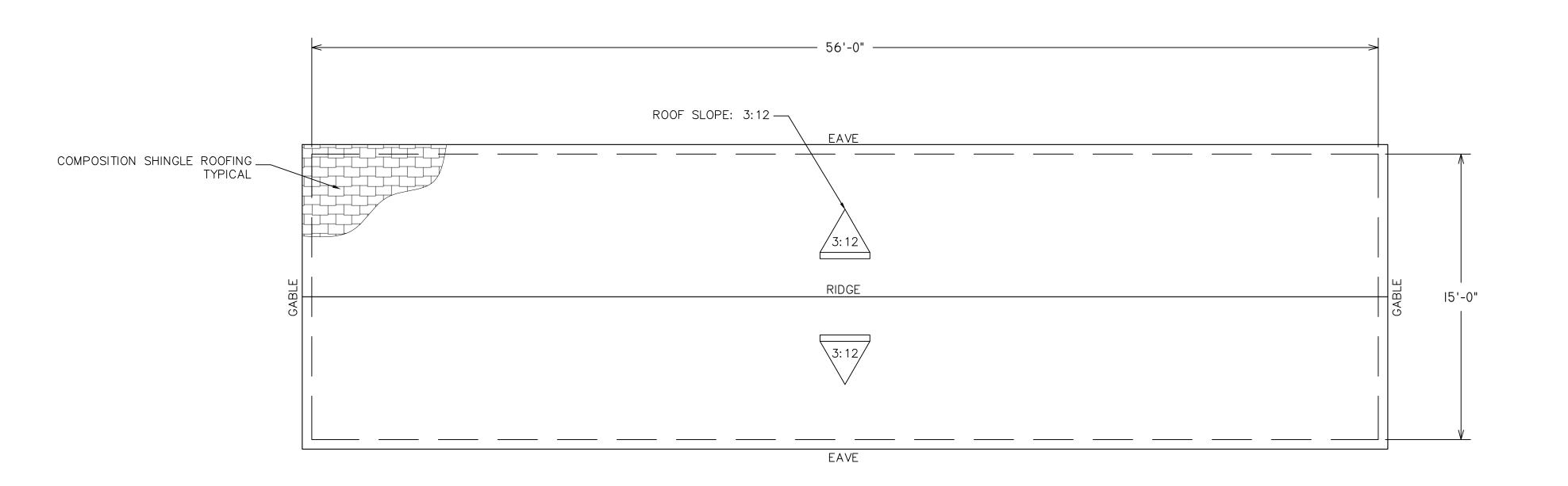


COUNTY

PROPOSED MANUFACTURED F CHEN FARM 2740 FERGUSON ROAD GILROY, CA 95020 SANTA

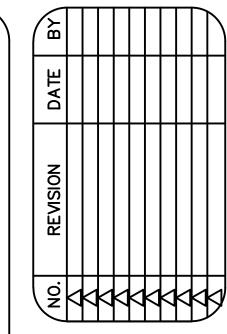
MANUFACTURED HOME TYPICAL FLOOR PLAN

Drawn Checked **Date** 08/08/23 Scale AS NOTED For PLANCHECK Sheet



TYPICAL MANUFACTURED HOME ROOF PLAN

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





HOMES

TURED

)AD SANTA PROPOSED MANUFACT CHEN FARM 2740 FERGUSON ROA GILROY, CA 95020 S

MANUFACTURED HOME TYPICAL ROOF PLAN

Drawn Checked **Date** 08/08/23 Scale AS NOTED For PLANCHECK Sheet

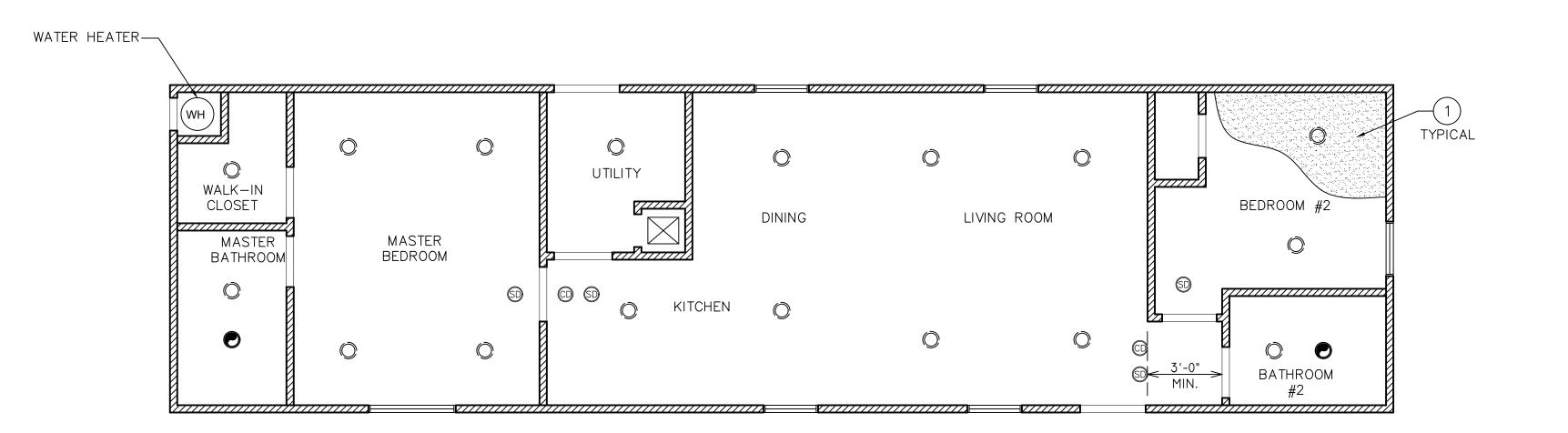


LEGEND	DESCRIPTION
	LED LIGHT PER MANUFACTURER'S PLAN
	EXHAUST FAN W/ HUMIDISTAT CONTROL AND MIN. 50 CFM
	SMOKE DETECTOR, 120V HARD-WIRED WITH 10-YEAR BATTERY BACK-UP
©	CARBON MONOXIDE DETECTOR HARD WIRED WITH BATTERY BACK-UP
1)	CLG-1: GYPSUM BOARD CEILING AT 8'-0" HIGH

NOTES:

1) FOR LIGHTING SPECIFICATIONS, WIRING, AND OTHER DETAILS, SEE ELECTRICAL PLANS.

2) FOR HVAC REGISTERS, FANS, & OTHER INFO NOT SHOWN, SEE MECHANICAL PLANS.





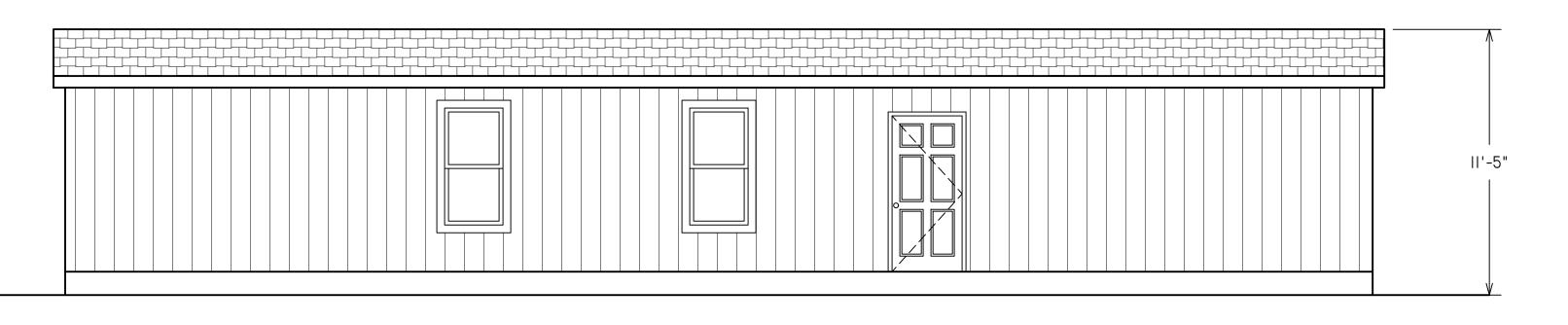
COUNTY

)AD SANTA TURED PROPOSED MANUFACT CHEN FARM 2740 FERGUSON ROA GILROY, CA 95020 S

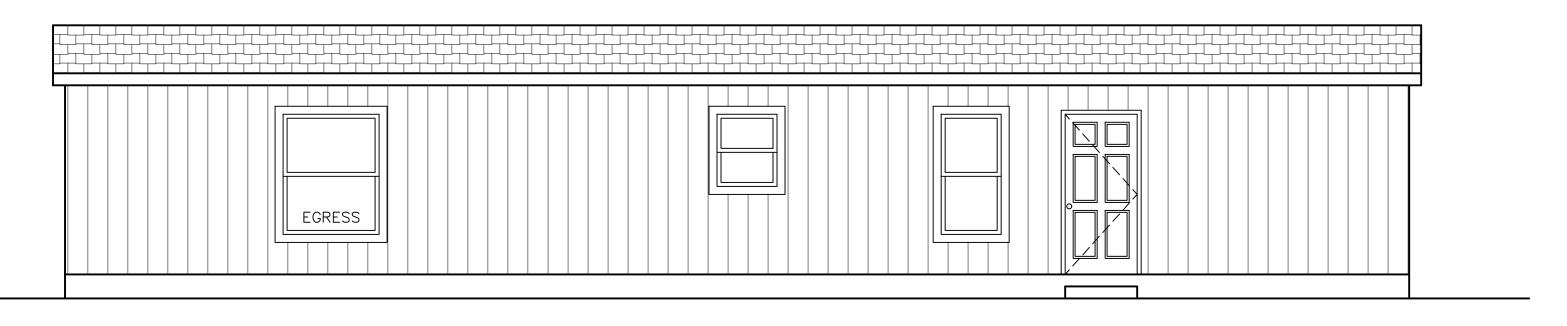
MANUFACTURED HOME TYPICAL REFLECTED CEILING PLAN

Drawn Checked **Date** 08/08/23 Scale AS NOTED PLANCHECK

For Sheet

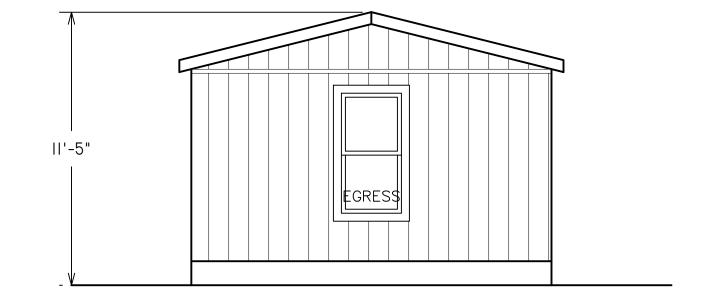


PROPOSED NORTH ELEVATION SCALE: 1/4"= 1'-0"



PROPOSED SOUTH ELEVATION

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



PROPOSED EAST ELEVATION

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

PROPOSED WEST ELEVATION

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

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DATE											
REVISION											
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			NSE D	D I	AR E	CHRN			<u> </u>		



PROPOSED MANUFACTURED H
CHEN FARM
2740 FERGUSON ROAD
GILROY, CA 95020 SANTA

MANUFACTURED HOME TYPICAL ELEVATIONS

Drawn Checked **Date** 08/08/23 Scale AS NOTED For PLANCHECK Sheet

SHEAR	WALL	DATA											
	WIND ZONE: 1												
LABEL	UNIT	WALL	PANEL	TYPE	ACT.LENGTH	REQ.LENGTH	NOTE	ACT.TRIB**	REQ.TRIB	JNS	SWHT		
A	А	1	1SG	E	70 3/4"	26"	3 x 26 ga STRAP	16'-1 1/8"	5'-6 1/2"		90		
В	A	1	2SG	S	120 3/4"		1 JOIST & 2 LAGS	42'-1 5/8"	28'-0"	3	90		
С	А	1	1SG	E	148 1/2"	98"	3 x 26 ga STRAP	34'-3 1/2"	22'-5 1/2"		90		
** EMI	** EMPTY TRIB FIELD IS COMBINED IN NUMBER ABOVE												
JNS =	NUMBE	ER OF	JOISTS	FOR	USE WITHOUT S	TRAP. HEAVY	FRAMING MUST USE ACT	r.LENGTH(S)					

OPT. 1440 WINDOW IN BATH 1

SHEAR	WALL	DATA											
WIND	WIND ZONE: 1 OPT1												
LABEL	UNIT	WALL	PANEL	TYPE	ACT.LENGTH	REQ.LENGTH	NOTE	ACT.TRIB**	REQ.TRIB	JNS	SWHT		
A	A	1	1SG	E	70 3/4"	26"	3 x 26 ga STRAP	16'-1 1/8"	5'-6 1/2"		90		
В	A	1	2SG	S	120 3/4"		1 JOIST & 2 LAGS	42'-1 5/8"	28'-0"	3	90		
С	A	1	1SG	E	89"	98"	3 x 26 ga STRAP	30'-5 1/8"	22'-5 1/2"		90		
С	A	2	1SG	E	45"		3 x 26 ga STRAP				90		
** EM	** EMPTY TRIB FIELD IS COMBINED IN NUMBER ABOVE												
JNS =	NUMBI	ER OF	JOIST	S FOR	USE WITHOUT S	TRAP. HEAVY	FRAMING MUST USE AC	T.LENGTH(S)					

DOOR SCHEDULE										
SYMBOL	SIZE	DESCRIPTION	GLAZ	VENT	U VALUE					
3679	36 x 79	BLANK-INSWING			0.19					

WINDOW SCHE	EDULE				
SYMBOL	SIZE	DESCRIPTION	GLAZ	VENT	AREA
V3059SH	30 x 59	SGL HUNG WINDOW	9.48	5.08	12.47
V4659SH	46 x 59	SGL HUNG WINDOW	15.27	8.04	19.01
V3036SH	30 x 36	SGL HUNG WINDOW	5.37	2.73	7.68
V1440SH	14 x 40	SGL HUNG WINDOW	2.35	1.29	4.02

FLOOR	INFO
JOIST SIZE	2x8
JOIST MATERIAL	SPF
JOIST SPACING	16

WALL	INFO
SIDEWALL HGT.	90"
EXT WALL SIZE	2x4
EXT SIDING MATL	5/16 4X8 HARDIE

CEILING/ROC	F INFO
CEILING THICKNESS	1/2"
CEILING MATERIAL	US GYP
FRONT EAVE O'HANG	0
REAR EAVE O'HANG	0
FRONT GABLE O'HG	12"
REAR GABLE O'HG	0



220

PRODUCT NAME

CANYON LAKE

MODEL NO.

15562X

DRAWING TITLE

SPEC DRWG

DRAWN BY:

MARIBEL L.

DATE: 04/18/16

Т

SPEC.1

22CL15562X

SHEAR	WALL	DATA										
WIND ZONE: 1												
LABEL	UNIT	WALL	PANEL	TYPE	ACT.LENGTH	REQ.LENGTH	NOTE	ACT.TRIB**	REQ.TRIB	JNS	SWHT	
A	А	1	1SG	E	70 3/4"	26"	3 x 26 ga STRAP	16'-1 1/8"	5'-6 1/2"		90	
В	А	1	2SG	S	120 3/4"		1 JOIST & 2 LAGS	42'-1 5/8"	26'-0"	3	90	
С	А	1	1SG	E	148 1/2"	89 3/8"	3 x 26 ga STRAP	34'-3 1/2"	20'-5 1/2"		90	
** EM	** EMPTY TRIB FIELD IS COMBINED IN NUMBER ABOVE											
JNS =	NUMBI	ER OF	JOISTS	S FOR	USE WITHOUT S	TRAP. HEAVY	FRAMING MUST USE AC	T.LENGTH(S)				

OPT. 1440 WINDOW IN BATH 1

SHEAR	WALL	DATA											
WIND .	WIND ZONE: 1 OPT1												
LABEL	UNIT	WALL	PANEL	TYPE	ACT.LENGTH	REQ.LENGTH	NOTE	ACT.TRIB**	REQ.TRIB	JNS	SWHT		
A	A	1	1SG	E	70 3/4"	26"	3 x 26 ga STRAP	16'-1 1/8"	5'-6 1/2"		90		
В	A	1	2SG	S	120 3/4"		1 JOIST & 2 LAGS	42'-1 5/8"	26'-0"	3	90		
C	Α	1	1SG	E	45"	89 3/8"	3 x 26 ga STRAP	30'-5 1/8"	20'-5 1/2"		90		
C	Α	2	1SG	E	89"		3 x 26 ga STRAP				90		
** EM	PTY TI	RIB F	ELD IS	S COME	BINED IN NUMBE	CR ABOVE							
JNS =	NUMBI	ER OF	JOISTS	S FOR	USE WITHOUT S	STRAP. HEAVY	FRAMING MUST USE A	ACT.LENGTH(S)					

DOOR SCHEDULE										
SYMBOL	SIZE	DESCRIPTION	GLAZ	VENT	U VALUE					
3679	36 x 79	BLANK-INSWING			0.19					

	WINDOW SCHEDULE											
SYMBOL		SIZE	DESCRIPTION	GLAZ	VENT	AREA						
	V3036SH	30 x 36	SGL HUNG WINDOW	5.37	2.73	7.68						
	V3059SH	30 x 59	SGL HUNG WINDOW	9.48	5.08	12.4						
	V4659SH	46 x 59	SGL HUNG WINDOW	15.27	8.04	19.03						
	V1440SH	14 x 40	SGL HUNG WINDOW	2.35	1.29	4.02						

	FLOOR	NFO	
JOIST	SIZE		2x8
JOIST	MATERIAL		SPF
JOIST	SPACING		16

WALL	INFO
SIDEWALL HGT.	90"
EXT WALL SIZE	2x4
EXT SIDING MATL	5/16 4X8 HARDIE

CEILING/ROC	F INFO
CEILING THICKNESS	1/2"
CEILING MATERIAL	US GYP
FRONT EAVE O'HANG	0
REAR EAVE O'HANG	0
FRONT GABLE O'HG	12"
REAR GABLE O'HG	0



220

PRODUCT NAME

CANYON LAKE

MODEL NO.

15562X

DRAWING TITLE

ALTERNATE 1 SPEC DRWG

DRAWN BY:
MARIBEL L.

22CL15562Xa1

04/18/16

SHT SPEC1.1

52' PLAN #1

HUD MHCSS 4/18/16

WALL	WINDOW		DOOR	AREA
11	KINRO VINYL CLEAR	(1500)	32 x 76 COTTAGE	23.06
11	KINRO VINYL CLEAR	(1500)	32 x 76 COTTAGE-INSWING	8.83
11	KINRO VINYL CLEAR	(1500)	32 x 77 COTTAGE	7.88
11	KINRO VINYL CLEAR	(1500)	32 x 79 BLANK-INSWING	4.74
11	KINRO VINYL CLEAR	(1500)	32 x 79 COTTAGE-INSWING	9.17
11	KINRO VINYL CLEAR	(1500)	32 x 79 COTTAGE-INSWING	9.17
11	KINRO VINYL CLEAR	(1500)	36 x 78 BLANK-OUTSWING	5.25
11	KINRO VINYL CLEAR		36 x 79 BLANK-INSWING	5.29
11	KINRO VINYL CLEAR		36 x 79 COTTAGE-INSWING	10.24
11	KINRO VINYL CLEAR	· · · · · · · · · · · · · · · · · · ·	36 x 79 GUNSLOT-INSWING	17.61
11	KINRO VINYL CLEAR	· · · ·	36 x 79 GUNSLOT-INSWING	15.16
11	KINRO VINYL CLEAR	· · · · · · · · · · · · · · · · · · ·	36 x 79 GUNSLOT-INSWING	10.79
11	KINRO VINYL CLEAR	,	36 x 79 GUNSLOT-INSWING	12.53
11	KINRO VINYL CLEAR	· · · · · · · · · · · · · · · · · · ·	36 x 79 GUNSLOT-INSWING	7.49
11	KINRO VINYL CLEAR	,	36 x 80 COTTAGE-INSWING	6.94
11	KINRO VINYL CLEAR		36 x 96 BLANK-INSWING	6.28
		<u> </u>		
11	KINRO VINYL CLEAR	' '	5/0 x 6/8 SGD - SAFETY	16.51
11	KINRO VINYL CLEAR	· ,	6/0 x 6/8 SGD - SAFETY	19.81
11	KINRO VINYL CLEAR	· · · · · · · · · · · · · · · · · · ·	6/0 x 8/0 SGD - SAFETY	28.61
11	KINRO VINYL CLEAR	· · · · · · · · · · · · · · · · · · ·	72 x 79 FRENCH - SAFETY	26.21
11	KINRO VINYL CLEAR	· ,	72 x 79 FRENCH - SAFETY-INSWIN	26.54
11	KINRO VINYL CLEAR	. ,	8/0 x 6/8 SGD - SAFETY	31.80
11	KINRO VINYL CLEAR	,	8/0 x 8/0 SGD - SAFETY	60.77
11	KINRO VINYL LOW-E	(1500)	32 x 76 COTTAGE	35.67
11	KINRO VINYL LOW-E	(1500)	32 x 76 COTTAGE-INSWING	13.66
11	KINRO VINYL LOW-E	(1500)	32 x 77 COTTAGE	12.19
11	KINRO VINYL LOW-E	(1500)	32 x 79 BLANK-INSWING	7.33
11	KINRO VINYL LOW-E	,	32 x 79 COTTAGE-INSWING	14.18
11	KINRO VINYL LOW-E	· · · · · · · · · · · · · · · · · · ·	32 x 79 COTTAGE-INSWING	14.18
11	KINRO VINYL LOW-E	· ,	36 x 78 BLANK-OUTSWING	8.12
11	KINRO VINYL LOW-E	. ,	36 x 79 BLANK-INSWING	8.18
11	KINRO VINYL LOW-E	· ,	36 x 79 COTTAGE-INSWING	15.84
11	KINRO VINYL LOW-E		36 x 79 GUNSLOT-INSWING	27.24
		` '		
11	KINRO VINYL LOW-E	· /	36 x 79 GUNSLOT-INSWING	23.45
11	KINRO VINYL LOW-E	,	36 x 79 GUNSLOT-INSWING	16.69
11	KINRO VINYL LOW-E	· · · · · · · · · · · · · · · · · · ·	36 x 79 GUNSLOT-INSWING	19.38
11	KINRO VINYL LOW-E	· · · · · · · · · · · · · · · · · · ·	36 x 79 GUNSLOT-INSWING	11.58
11	KINRO VINYL LOW-E	· · · · · · · · · · · · · · · · · · ·	36 x 80 COTTAGE-INSWING	10.73
11	KINRO VINYL LOW-E	,	36 x 96 BLANK-INSWING	9.71
11	KINRO VINYL LOW-E	(/	5/0 x 6/8 SGD - SAFETY	25.54
11	KINRO VINYL LOW-E	(1500)	6/0 x 6/8 SGD - SAFETY	30.64
11	KINRO VINYL LOW-E	(1500)	6/0 x 8/0 SGD - SAFETY	44.27
11	KINRO VINYL LOW-E	(1500)	72 x 79 FRENCH - SAFETY	40.56
11	KINRO VINYL LOW-E	(1500)	72 x 79 FRENCH - SAFETY-INSWIN	41.06
11	KINRO VINYL LOW-E		8/0 x 6/8 SGD - SAFETY	49.19
11	KINRO VINYL LOW-E		8/0 x 8/0 SGD - SAFETY	94.01
19	KINRO VINYL CLEAR		32 x 76 COTTAGE	22.74
19	KINRO VINYL CLEAR		32 x 76 COTTAGE-INSWING	9.58
19	KINRO VINYL CLEAR		32 x 77 COTTAGE	8.70
19	KINRO VINYL CLEAR	<u> </u>	32 x 79 BLANK-INSWING	5.85
19	KINRO VINYL CLEAR		32 x 79 BHANK-INSWING	9.95
19	KINRO VINYL CLEAR	· ,	32 x 79 COTTAGE-INSWING	9.95
19	KINRO VINYL CLEAR	· · · · · · · · · · · · · · · · · · ·	36 x 78 BLANK-OUTSWING	6.48
19	KINRO VINYL CLEAR		36 x 79 BLANK-INSWING	6.53
19	KINRO VINYL CLEAR	· · · · · · · · · · · · · · · · · · ·	36 x 79 COTTAGE-INSWING	11.11
19	KINRO VINYL CLEAR		36 x 79 GUNSLOT-INSWING	18.96
19	KINRO VINYL CLEAR		36 x 79 GUNSLOT-INSWING	16.32
19	KINRO VINYL CLEAR		36 x 79 GUNSLOT-INSWING	11.61
19	KINRO VINYL CLEAR	· · · · · · · · · · · · · · · · · · ·	36 x 79 GUNSLOT-INSWING	13.49
19	KINRO VINYL CLEAR	· · · · · · · · · · · · · · · · · · ·	36 x 79 GUNSLOT-INSWING	8.57
19	KINRO VINYL CLEAR	· · · · · · · · · · · · · · · · · · ·	36 x 80 COTTAGE-INSWING	8.06
19	KINRO VINYL CLEAR	(1500)	36 x 96 BLANK-INSWING	7.76
19	KINRO VINYL CLEAR	(1500)	5/0 x 6/8 SGD - SAFETY	17.77
19	KINRO VINYL CLEAR	(1500)	6/0 x 6/8 SGD - SAFETY	21.33
19	KINRO VINYL CLEAR	· · · · · · · · · · · · · · · · · · ·	6/0 x 8/0 SGD - SAFETY	30.08
19	KINRO VINYL CLEAR	· · · · · · · · · · · · · · · · · · ·	72 x 79 FRENCH - SAFETY	27.42
19	KINRO VINYL CLEAR		72 x 79 FRENCH - SAFETY-INSWIN	
Τ9	KINKO VINYL CLEAR	(T200)	/2 X /9 FRENCH - SAFETY-INSWIN	

	ONAL DOOR EQUIVALENT GLAZING AREA		
WALL	WINDOW	DOOR	AREA
19	KINRO VINYL CLEAR (1500)	8/0 x 6/8 SGD - SAFETY	33.42
19	KINRO VINYL CLEAR (1500)	8/0 x 8/0 SGD - SAFETY	61.01
19	KINRO VINYL LOW-E (1500)	32 x 76 COTTAGE	33.78
19	KINRO VINYL LOW-E (1500)	32 x 76 COTTAGE-INSWING	14.24
19	KINRO VINYL LOW-E (1500)	32 x 77 COTTAGE	12.93
19	KINRO VINYL LOW-E (1500)	32 x 79 BLANK-INSWING	8.69
19	KINRO VINYL LOW-E (1500)	32 x 79 COTTAGE-INSWING	14.78
19	KINRO VINYL LOW-E (1500)	32 x 79 COTTAGE-INSWING	14.78
19	KINRO VINYL LOW-E (1500)	36 x 78 BLANK-OUTSWING	9.63
19	KINRO VINYL LOW-E (1500)	36 x 79 BLANK-INSWING	9.70
19	KINRO VINYL LOW-E (1500)	36 x 79 COTTAGE-INSWING	16.50
19	KINRO VINYL LOW-E (1500)	36 x 79 GUNSLOT-INSWING	28.17
19	KINRO VINYL LOW-E (1500)	36 x 79 GUNSLOT-INSWING	24.25
19	KINRO VINYL LOW-E (1500)	36 x 79 GUNSLOT-INSWING	17.26
19	KINRO VINYL LOW-E (1500)	36 x 79 GUNSLOT-INSWING	20.05
19	KINRO VINYL LOW-E (1500)	36 x 79 GUNSLOT-INSWING	12.73
19	KINRO VINYL LOW-E (1500)	36 x 80 COTTAGE-INSWING	11.97
19	KINRO VINYL LOW-E (1500)	36 x 96 BLANK-INSWING	11.52
19	KINRO VINYL LOW-E (1500)	5/0 x 6/8 SGD - SAFETY	26.41
19	KINRO VINYL LOW-E (1500)	6/0 x 6/8 SGD - SAFETY	31.69
19	KINRO VINYL LOW-E (1500)	6/0 x 8/0 SGD - SAFETY	44.69
19	KINRO VINYL LOW-E (1500)	72 x 79 FRENCH - SAFETY	40.74
19	KINRO VINYL LOW-E (1500)	72 x 79 FRENCH - SAFETY-INSWIN	41.24
19	KINRO VINYL LOW-E (1500)	8/0 x 6/8 SGD - SAFETY	49.65
19	KINRO VINYL LOW-E (1500)	8/0 x 8/0 SGD - SAFETY	90.65

TZ CEIL WALL FLOOR U DESCRIPTION DUCT TYPE RESULT MAX NOM AVAIL.										
2 21							DIIGH HVDD	DDGIII D	MAY NOM	3173 TT
2 21					_					
2 28						, ,				
2 28						<u> </u>				
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2 28 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 383.47 306.90 2 28 19 11 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 258.58 182.01 2 28 19 11 0.35 KINRO VINYL CLEAR (1500) INSULATED PASS 384.20 307.63 2 28 19 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 309.71 233.14 2 28 19 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 309.71 233.14 2 28 19 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 309.71 233.14 2 28 19 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 201.10 124.53 2 33 11 11 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 311.12 234.55 2 33 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 311.12 234.55 2 33 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 311.12 234.55 2 33 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 31.12 234.55 2 33 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 396.67 320.10 2 33 19 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 317.60 241.03 2 33 19 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 317.60 241.03 2 33 19 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 317.60 241.03 3 21 11 11 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 401.63 325.06 3 21 11 11 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 401.63 325.06 3 21 11 11 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 401.63 325.06 3 28 11 12 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 111.39 34.82 3 28 11 10 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 177.82 1.25 3 28 11 11 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 111.39 34.82 3 28 11 10 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 107.99 50.73 3 28 11 10 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 127.29 50.73 3 28 11 10 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 127.29 50.73 3 28 11 10 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 127.29 50.73 3 28 11 10 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 127.29 50.73 3 28 11 10 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 127.29 50.73 3 33 11 11 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 128.56 141.99 3 28 19 21 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 124.58 48.01 3 33 11 12 0.49 KINRO VINYL						` '				
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2 28 19 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 309.71 233.14 2 28 19 22 0.35 KINRO VINYL CLEAR (1500) INSULATED PASS 460.17 383.60 2 33 11 11 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 201.10 124.53 233 11 11 0.35 KINRO VINYL CLEAR (1500) INSULATED PASS 311.12 234.55 233 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 256.40 179.83 233 11 22 0.35 KINRO VINYL CLEAR (1500) INSULATED PASS 396.67 320.10 233 19 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 396.67 320.10 233 19 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 371.60 241.03			-			` '		-		
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2 33 11 11 0.49 KINRO VINYL CLEAR (1500)		-	-			` '	INSULATED	-		
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2 33 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 256.40 179.83 2 33 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 396.67 320.10 2 33 19 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 317.60 241.03 2 33 19 22 0.35 KINRO VINYL CLEAR (1500) INSULATED PASS 317.60 241.03 2 33 19 22 0.35 KINRO VINYL CLEAR (1500) INSULATED PASS 259.61 183.04 2 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 259.61 183.04 2 36 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 401.63 325.06 3 21 11 11 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 401.63 325.06 3 21 11 11 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 77.82 1.25 3 28 11 11 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 77.82 1.25 3 28 11 11 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 127.29 50.72 3 28 11 12 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 127.29 50.72 3 28 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 127.29 50.72 3 28 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 147.10 70.53 3 28 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 147.10 70.53 3 28 19 11 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 147.10 70.53 3 28 19 11 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 147.10 70.53 3 28 19 11 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 147.10 70.53 3 28 19 11 0.35 KINRO VINYL CLEAR (1500) INSULATED PASS 196.93 120.36 3 28 19 22 0.35 KINRO VINYL CLEAR (1500) INSULATED PASS 198.22 121.65 3 28 19 22 0.35 KINRO VINYL CLEAR (1500) INSULATED PASS 198.22 121.65 3 28 19 22 0.35 KINRO VINYL CLEAR (1500) INSULATED PASS 198.22 121.65 3 28 19 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 124.58 48.01 3 33 11 11 0.35 KINRO VINYL CLEAR (1500) INSULATED PASS 135.82 59.25 3 33 11 12 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 135.82 59.25 3 33 11 12 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 135.82 59.25 3 33 11 12 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 135.82 59.25 3 33 11 22 0.35 KINRO VINYL CLEAR (1500) INSULATED PASS 135.82 59.25 3 36 11 22 0.35 KINRO VINYL CLEAR (1500) INSULATED PASS 135.02 42.29.67 3 36 11 22 0.35 KINRO VINYL CLEAR						KINRO VINYL CLEAR (1500)	INSULATED	PASS		
2 33 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 396.67 320.10	2	33	11	11	0.35	KINRO VINYL LOW-E (1500)	INSULATED	PASS	311.12	
2 33 19 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 317.60 241.03 2 33 19 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 471.89 395.32 2 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 259.61 183.04 2 36 11 22 0.35 KINRO VINYL CLEAR (1500) INSULATED PASS 401.63 325.06 3 21 11 11 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 401.63 325.06 3 21 11 11 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 77.82 1.25 3 28 11 11 0.35 KINRO VINYL LOW-E (1500) INSULATED N/A 72.00 -4.57 3 28 11 11 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 111.39 34.82 3 28 11 12 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 127.29 50.72 3 28 11 12 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 127.29 50.72 3 28 11 10 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 127.29 50.72 3 28 11 10 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 127.29 50.73 3 28 11 10 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 127.29 50.73 3 28 11 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 147.10 70.53 3 28 19 11 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 147.10 70.53 3 28 19 11 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 281.56 141.99 3 28 19 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 281.56 141.99 3 28 19 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 294.52 217.55 3 33 11 11 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 198.22 212.65 3 28 19 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 135.82 59.25 3 33 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 200.51 132.65 3 33 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 200.51 132.95 3 33 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 200.51 132.95 3 33 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 200.51 129.54 3 33 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 135.82 59.25 3 33 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 139.03 62.46 3 33 19 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 130.03 62.46 3 36 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 139.03 62.46	2	33	11	22	0.49	KINRO VINYL CLEAR (1500)	INSULATED	PASS	256.40	179.83
2 33 19 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 471.89 395.32 2 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 259.61 183.04 2 36 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 401.63 325.06 3 21 11 11 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 77.82 1.25 3 28 11 11 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 77.82 1.25 3 28 11 11 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 111.39 34.82 3 28 11 12 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 111.39 34.82 3 28 11 12 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 127.29 50.72 3 28 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 127.29 50.72 3 28 11 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 127.29 50.73 3 28 11 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 147.10 70.53 3 28 19 11 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 147.10 70.53 3 28 19 11 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 147.10 70.53 3 28 19 11 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 147.10 70.53 3 28 19 20 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 248.52 127.95 3 28 19 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 294.52 217.95 3 33 11 1 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 294.52 217.95 3 33 11 1 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 294.52 217.95 3 33 11 1 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 294.52 217.95 3 33 11 1 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 124.58 48.01 3 33 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 135.82 59.25 3 33 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 135.82 59.25 3 33 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 206.11 129.54 3 33 19 22 0.55 KINRO VINYL LOW-E (1500) INSULATED PASS 306.24 229.67 3 36 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 139.03 62.46	2	33	11	22	0.35	KINRO VINYL LOW-E (1500)	INSULATED	PASS	396.67	320.10
2 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 259.61 183.04 2 36 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 401.63 325.06 3 21 11 11 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 77.82 1.25 3 28 11 11 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 77.82 1.25 3 28 11 11 0.35 KINRO VINYL CLEAR (1500) INSULATED PASS 111.39 34.82 3 28 11 11 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 111.39 34.82 3 28 11 12 0.35 KINRO VINYL CLEAR (1500) INSULATED PASS 111.39 34.82 3 28 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 127.29 50.72 3 28 11 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 127.29 50.72 3 28 11 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 147.10 70.53 3 28 19 11 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 147.10 70.53 3 28 19 11 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 218.56 141.99 3 28 19 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 294.52 217.95 3 28 19 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 294.52 217.95 3 33 11 11 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 294.52 217.95 3 33 11 11 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 206.53 3.96 3 33 11 11 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 204.58 48.01 3 33 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 206.11 129.54 3 33 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 206.11 129.54 3 33 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 306.24 229.67 3 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 306.24 229.67 3 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 306.24 229.67 3 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 306.24 229.67 3 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 306.24 229.67 3 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.35 KINRO VINYL CLEAR (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 139.03 62.46	2	33	19	22	0.49	KINRO VINYL CLEAR (1500)	INSULATED	PASS	317.60	241.03
2 36 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 401.63 325.06 3 21 11 11 0.49 KINRO VINYL CLEAR (1500) INSULATED N/A 50.30 -26.27 3 21 11 11 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 77.82 1.25 3 28 11 11 0.49 KINRO VINYL CLEAR (1500) INSULATED N/A 72.00 -4.57 3 28 11 11 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 111.39 34.82 3 28 11 12 0.35 KINRO VINYL CLEAR (1500) INSULATED PASS 111.39 34.82 3 28 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 127.29 50.72 3 28 11 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 127.29 50.72 3 28 11 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 147.10 70.53 3 28 19 11 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 147.10 70.53 3 28 19 11 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 147.10 70.53 3 28 19 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 218.56 141.99 3 28 19 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 198.22 121.65 3 28 19 22 0.35 KINRO VINYL CLEAR (1500) INSULATED PASS 294.52 217.95 3 33 11 11 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 80.53 3.96 3 33 11 11 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 80.53 3.96 3 33 11 11 0.35 KINRO VINYL CLEAR (1500) INSULATED PASS 124.58 48.01 3 33 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 206.11 129.54 3 33 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 206.11 129.54 3 33 19 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 306.24 229.67 3 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 306.24 229.67 3 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 306.24 229.67 3 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 306.24 229.67 3 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 306.24 229.67 3 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 215.09 138.52 SUBTRACT 2 S.F. OF GLAZING FOR EACH S.F. OF SKYLIGHT AREA	2	33	19	22	0.35	KINRO VINYL LOW-E (1500)	INSULATED	PASS	471.89	395.32
3 21 11 11 11 0.49 KINRO VINYL CLEAR (1500)	2	36	11	22	0.49	KINRO VINYL CLEAR (1500)	INSULATED	PASS	259.61	183.04
3 21 11 11 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 77.82 1.25 3 28 11 11 0.49 KINRO VINYL CLEAR (1500) INSULATED N/A 72.00 -4.57 3 28 11 11 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 111.39 34.82 3 28 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 127.29 50.72 3 28 11 22 0.35 KINRO VINYL CLEAR (1500) INSULATED PASS 196.93 120.36 3 28 19 11 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 196.93 120.36 3 28 19 11 0.35 KINRO VINYL CLEAR (1500) INSULATED PASS 147.10 70.53 3 28 19 11 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 147.10 70.53 3 28 19 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 198.22 121.65 3 28 19 22 0.35 KINRO VINYL CLEAR (1500) INSULATED PASS 294.52 217.95 3 33 11 11 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 80.53 3.96 3 33 11 11 0.35 KINRO VINYL CLEAR (1500) INSULATED PASS 80.53 3.96 3 33 11 12 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 124.58 48.01 3 33 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 135.82 59.25 3 33 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 206.11 129.54 3 33 19 22 0.35 KINRO VINYL CLEAR (1500) INSULATED PASS 306.24 229.67 3 36 11 22 0.35 KINRO VINYL CLEAR (1500) INSULATED PASS 306.24 229.67 3 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.35 KINRO VINYL CLEAR (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.35 KINRO VINYL CLEAR (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.35 KINRO VINYL CLEAR (1500) INSULATED PASS 139.03 62.46	2	36	11	22	0.35	KINRO VINYL LOW-E (1500)	INSULATED	PASS	401.63	325.06
3 28 11 11 0.49 KINRO VINYL CLEAR (1500) INSULATED N/A 72.00	3	21	11	11	0.49	KINRO VINYL CLEAR (1500)	INSULATED	N/A	50.30	-26.27
3 28 11 11 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 111.39 34.82 3 28 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 127.29 50.72 3 28 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 196.93 120.36 3 28 19 11 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 147.10 70.53 3 28 19 11 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 218.56 141.99 3 28 19 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 198.22 121.65 3 28 19 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 294.52 217.95 3 33 11 11 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 80.53 3.96 3 33 11 11 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 80.53 3.96 3 33 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 124.58 48.01 3 33 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 135.82 59.25 3 33 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 206.11 129.54 3 33 19 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 206.11 129.54 3 33 19 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 306.24 229.67 3 36 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 306.24 229.67 3 36 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 139.03 62.46	3	21	11	11	0.35	KINRO VINYL LOW-E (1500)	INSULATED	PASS	77.82	1.25
3 28 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 127.29 50.72 3 28 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 196.93 120.36 3 28 19 11 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 218.56 141.99 3 28 19 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 198.22 121.65 3 28 19 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 294.52 217.95 3 3 11 11 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 80.53 3.96 3 33 11 11 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 124.58 48.01 3 33 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 135.82 59.25 3 33 11 22 0.35 KINRO VINYL LOW-E (3	28	11	11	0.49	KINRO VINYL CLEAR (1500)	INSULATED	N/A	72.00	-4.57
3 28 11 22 0.35 KINRO VINYL LOW-E (1500)	3	28	11	11	0.35	KINRO VINYL LOW-E (1500)	INSULATED	PASS	111.39	34.82
3 28 19 11 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 147.10 70.53 3 28 19 11 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 218.56 141.99 3 28 19 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 198.22 121.65 3 28 19 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 294.52 217.95 3 33 11 11 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 80.53 3.96 3 33 11 12 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 124.58 48.01 3 33 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 215.82 59.25 3 33 19 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 206.11 129.54 3 33 19 22 0.49 KINRO VINYL CLEAR	3	28	11	22	0.49	KINRO VINYL CLEAR (1500)	INSULATED	PASS	127.29	50.72
3 28 19 11 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 218.56 141.99 3 28 19 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 198.22 121.65 3 28 19 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 294.52 217.95 3 33 11 11 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 80.53 3.96 3 33 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 124.58 48.01 3 33 11 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 135.82 59.25 3 33 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 210.13 133.56 3 33 19 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 206.11 129.54 3 36 11 22 0.35 KINRO VINYL CLEAR	3	28	11	22	0.35	KINRO VINYL LOW-E (1500)	INSULATED	PASS	196.93	120.36
3 28 19 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 198.22 121.65 3 28 19 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 294.52 217.95 3 33 11 11 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 80.53 3.96 3 33 11 11 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 124.58 48.01 3 33 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 135.82 59.25 3 33 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 210.13 133.56 3 33 19 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 206.11 129.54 3 33 19 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 306.24 229.67 3 36 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 306.24 229.67 3 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 306.24 229.67 3 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 215.09 138.52 SUBTRACT 2 S.F. OF GLAZING FOR EACH S.F. OF SKYLIGHT AREA	3	28	19	11	0.49	KINRO VINYL CLEAR (1500)	INSULATED	PASS	147.10	70.53
3 28 19 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 294.52 217.95 3 33 11 11 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 80.53 3.96 3 33 11 11 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 124.58 48.01 3 33 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 210.13 133.56 3 33 19 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 206.11 129.54 3 33 19 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 306.24 229.67 3 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.35 KINRO VINYL LOW-E	3	28	19	11	0.35	KINRO VINYL LOW-E (1500)	INSULATED	PASS	218.56	141.99
3 28 19 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 294.52 217.95 3 33 11 11 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 80.53 3.96 3 33 11 11 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 124.58 48.01 3 33 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 210.13 133.56 3 33 19 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 206.11 129.54 3 33 19 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 306.24 229.67 3 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.35 KINRO VINYL LOW-E	3	28	19	22	0.49	KINRO VINYL CLEAR (1500)	INSULATED	PASS	198.22	121.65
3 33 11 11 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 124.58 48.01 3 33 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 135.82 59.25 3 33 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 210.13 133.56 3 33 19 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 306.24 229.67 3 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 215.09 138.52	3	28	19	22			INSULATED	PASS	294.52	217.95
3 33 11 11 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 124.58 48.01 3 33 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 135.82 59.25 3 33 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 210.13 133.56 3 33 19 22 0.49 KINRO VINYL LOW-E (1500) INSULATED PASS 206.11 129.54 3 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 306.24 229.67 3 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 215.09 138.52 SUBTRACT 2 S.F. OF GLAZING FOR EACH S.F. OF SKYLIGHT AREA	3	33	11	11	0.49	KINRO VINYL CLEAR (1500)	INSULATED	PASS	80.53	3.96
3 33 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 135.82 59.25 3 33 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 210.13 133.56 3 33 19 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 206.11 129.54 3 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 215.09 138.52 SUBTRACT 2 S.F. OF GLAZING FOR EACH S.F. OF SKYLIGHT AREA	3	33	11	11		, ,		 		
3 33 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 210.13 133.56 3 33 19 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 206.11 129.54 3 33 19 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 306.24 229.67 3 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 215.09 138.52 SUBTRACT 2 S.F. OF GLAZING FOR EACH S.F. OF SKYLIGHT AREA						, ,				
3 33 19 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 206.11 129.54 3 33 19 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 306.24 229.67 3 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 215.09 138.52 SUBTRACT 2 S.F. OF GLAZING FOR EACH S.F. OF SKYLIGHT AREA	_					` '				
3 33 19 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 306.24 229.67 3 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 215.09 138.52 SUBTRACT 2 S.F. OF GLAZING FOR EACH S.F. OF SKYLIGHT AREA										
3 36 11 22 0.49 KINRO VINYL CLEAR (1500) INSULATED PASS 139.03 62.46 3 36 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 215.09 138.52 SUBTRACT 2 S.F. OF GLAZING FOR EACH S.F. OF SKYLIGHT AREA			-			, ,				
3 36 11 22 0.35 KINRO VINYL LOW-E (1500) INSULATED PASS 215.09 138.52 SUBTRACT 2 S.F. OF GLAZING FOR EACH S.F. OF SKYLIGHT AREA						, ,	-			
SUBTRACT 2 S.F. OF GLAZING FOR EACH S.F. OF SKYLIGHT AREA							-			
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DESIG	DESIGN, CERTIFICATION & ECONOMY TEMPERATURES								
STATE	TYPE	FURNACE	DT	CT	ET				
AZ	ELEC	17 KW ELECTRIC FURN-A/C READY UP TO 4 TONS	9	-81	-36				
AZ	ELEC	20 KW ELECTRIC FURN-A/C READY UP TO 4 TONS	9	-111	-57				
AZ	GAS	56K BTUH 80% AFUE AUTO GAS FURN	9	-51	-15				
AZ	GAS	77K BTUH 80% AFUE AUTO GAS FURN	9	-97	-47				
CA	ELEC	17 KW ELECTRIC FURN-A/C READY UP TO 4 TONS	22	-81	-36				
CA	ELEC	20 KW ELECTRIC FURN-A/C READY UP TO 4 TONS	22	-111	-57				
CA	GAS	56K BTUH 80% AFUE AUTO GAS FURN	22	-51	-15				
CA	GAS	77K BTUH 80% AFUE AUTO GAS FURN	22	-97	-47				
CO	ELEC	17 KW ELECTRIC FURN-A/C READY UP TO 4 TONS	-5	-104	-51				
CO	ELEC	20 KW ELECTRIC FURN-A/C READY UP TO 4 TONS	-5	-138	-75				
CO	GAS	56K BTUH 80% AFUE AUTO GAS FURN	- 5	-69	-28				
CO	GAS	77K BTUH 80% AFUE AUTO GAS FURN	-5	-122	-64				
NM	ELEC	17 KW ELECTRIC FURN-A/C READY UP TO 4 TONS	1	-81	-36				
NM	ELEC	20 KW ELECTRIC FURN-A/C READY UP TO 4 TONS	1	-111	-57				
NM	GAS	56K BTUH 80% AFUE AUTO GAS FURN	1	-51	-15				
NM	GAS	77K BTUH 80% AFUE AUTO GAS FURN	1	-97	-47				
NV	ELEC	17 KW ELECTRIC FURN-A/C READY UP TO 4 TONS	- 4	-104	-51				
NV	ELEC	20 KW ELECTRIC FURN-A/C READY UP TO 4 TONS	- 4	-138	-75				
NV	GAS	56K BTUH 80% AFUE AUTO GAS FURN	- 4	-69	-28				
NV	GAS	77K BTUH 80% AFUE AUTO GAS FURN	- 4	-122	-64				
UT	ELEC	17 KW ELECTRIC FURN-A/C READY UP TO 4 TONS	0	-104	-51				
UT	ELEC	20 KW ELECTRIC FURN-A/C READY UP TO 4 TONS	0	-138	-75				
UT	GAS	56K BTUH 80% AFUE AUTO GAS FURN	0	-69	-28				
UT	GAS	77K BTUH 80% AFUE AUTO GAS FURN	0	-122	-64				

STANDARD OPENINGS									
QTY	SIZE	DESCRIPTION	TYPE	AREA	TOTAL	U VALUE			
2	36 x 79	BLANK-INSWING	DOOR	21.78	43.56	0.190			
1	30 x 36	SGL HUNG WINDOW	WINDOW	7.68	7.68				
4	30 x 59	SGL HUNG WINDOW	WINDOW	12.47	49.88				
1	46 x 59	SGL HUNG WINDOW	WINDOW	19.01	19.01				
TOTAL WINDOW AREA: 76									
SEE THERMAL CHART FOR WINDOW U VALUES									

RECOMME	ENDED A/C SIZ	ZES
STATE	DESIGN TEMP	TON
AZ	80- 99	2.
AZ	100-105	2.
AZ	106-110	3.
CA	80- 99	2.
CA	100-105	2.
CA	106-110	3.
CO	80-101	2.
CO	102-106	2.
NM	80- 99	2.
NM	100-105	2.
NM	106-110	3.
NV	80-101	2.
NV	102-106	2.
UT	80-101	2.
UT	102-106	2.



PRODUCT NAME

CANYON LAKE

220

MODEL NO.

15562X

DRAWING TITLE

THERMAL SPECS

MARIBEL L.

04/18/16

HUD MHCSS

TS.1

22CL15562X

	WINDOW	DOOR	AREA
11	KINRO VINYL CLEAR (1500)	32 x 76 COTTAGE	23.06
	KINRO VINYL CLEAR (1500)	32 x 76 COTTAGE-INSWING	8.83
	KINRO VINIL CLEAR (1500)	32 x 77 COTTAGE	7.88
	KINRO VINIL CLEAR (1500)	32 x 77 COTTAGE 32 x 79 BLANK-INSWING	4.74
	KINRO VINIL CLEAR (1500)	32 x 79 BLANK-INSWING 32 x 79 COTTAGE-INSWING	9.17
	KINRO VINYL CLEAR (1500) KINRO VINYL CLEAR (1500)	32 x 79 COTTAGE-INSWING 32 x 79 COTTAGE-INSWING	9.1
	, ,		
	KINRO VINYL CLEAR (1500)	36 x 78 BLANK-OUTSWING	5.25
	KINRO VINYL CLEAR (1500)	36 x 79 BLANK-INSWING	5.29
	KINRO VINYL CLEAR (1500)	36 x 79 COTTAGE-INSWING	10.24
	KINRO VINYL CLEAR (1500)	36 x 79 GUNSLOT-INSWING	17.61
11	KINRO VINYL CLEAR (1500)	36 x 79 GUNSLOT-INSWING	15.16
	KINRO VINYL CLEAR (1500)	36 x 79 GUNSLOT-INSWING	10.79
	KINRO VINYL CLEAR (1500)	36 x 79 GUNSLOT-INSWING	12.53
	KINRO VINYL CLEAR (1500)	36 x 79 GUNSLOT-INSWING	7.49
	KINRO VINYL CLEAR (1500)	36 x 80 COTTAGE-INSWING	6.94
	KINRO VINIL CLEAR (1500)	36 x 96 BLANK-INSWING	6.28
	, ,		
	KINRO VINYL CLEAR (1500)	5/0 x 6/8 SGD - SAFETY	16.51
	KINRO VINYL CLEAR (1500)	6/0 x 6/8 SGD - SAFETY	19.81
	KINRO VINYL CLEAR (1500)	6/0 x 8/0 SGD - SAFETY	28.61
_	KINRO VINYL CLEAR (1500)	72 x 79 FRENCH - SAFETY	26.21
11	KINRO VINYL CLEAR (1500)	72 x 79 FRENCH - SAFETY-INSWIN	26.54
11	KINRO VINYL CLEAR (1500)	8/0 x 6/8 SGD - SAFETY	31.80
	KINRO VINYL CLEAR (1500)	8/0 x 8/0 SGD - SAFETY	60.77
	KINRO VINYL LOW-E (1500)	32 x 76 COTTAGE	35.67
	KINRO VINIL LOW-E (1500)	32 x 76 COTTAGE-INSWING	13.66
	KINRO VINIL LOW-E (1500)	32 x 76 COTTAGE INSWING	12.19
	, ,		
	KINRO VINYL LOW-E (1500)	32 x 79 BLANK-INSWING	7.33
	KINRO VINYL LOW-E (1500)	32 x 79 COTTAGE-INSWING	14.18
	KINRO VINYL LOW-E (1500)	32 x 79 COTTAGE-INSWING	14.18
	KINRO VINYL LOW-E (1500)	36 x 78 BLANK-OUTSWING	8.12
11	KINRO VINYL LOW-E (1500)	36 x 79 BLANK-INSWING	8.18
	KINRO VINYL LOW-E (1500)	36 x 79 COTTAGE-INSWING	15.84
	KINRO VINYL LOW-E (1500)	36 x 79 GUNSLOT-INSWING	27.24
	KINRO VINIL LOW E (1500)	36 x 79 GUNSLOT-INSWING	23.45
_	, ,		
	KINRO VINYL LOW-E (1500)	36 x 79 GUNSLOT-INSWING	16.69
	KINRO VINYL LOW-E (1500)	36 x 79 GUNSLOT-INSWING	19.38
	KINRO VINYL LOW-E (1500)	36 x 79 GUNSLOT-INSWING	11.58
	KINRO VINYL LOW-E (1500)	36 x 80 COTTAGE-INSWING	10.73
	KINRO VINYL LOW-E (1500)	36 x 96 BLANK-INSWING	9.71
11	KINRO VINYL LOW-E (1500)	5/0 x 6/8 SGD - SAFETY	25.54
11	KINRO VINYL LOW-E (1500)	6/0 x 6/8 SGD - SAFETY	30.64
	KINRO VINYL LOW-E (1500)	6/0 x 8/0 SGD - SAFETY	44.27
	KINRO VINIL LOW-E (1500)	72 x 79 FRENCH - SAFETY	40.56
	KINRO VINIL LOW-E (1500)	72 x 79 FRENCH - SAFETY-INSWIN	41.06
	, ,		
	KINRO VINYL LOW-E (1500)	8/0 x 6/8 SGD - SAFETY	49.19
	KINRO VINYL LOW-E (1500)	8/0 x 8/0 SGD - SAFETY	94.01
	KINRO VINYL CLEAR (1500)	32 x 76 COTTAGE	22.74
	KINRO VINYL CLEAR (1500)	32 x 76 COTTAGE-INSWING	9.58
19	KINRO VINYL CLEAR (1500)	32 x 77 COTTAGE	8.70
19	KINRO VINYL CLEAR (1500)	32 x 79 BLANK-INSWING	5.85
19	KINRO VINYL CLEAR (1500)	32 x 79 COTTAGE-INSWING	9.95
	KINRO VINYL CLEAR (1500)	32 x 79 COTTAGE-INSWING	9.95
	KINRO VINYL CLEAR (1500)	36 x 78 BLANK-OUTSWING	6.48
	KINRO VINIL CLEAR (1500)	36 x 79 BLANK-INSWING	6.53
	KINRO VINIL CLEAR (1500)	36 x 79 COTTAGE-INSWING	11.11
	1 1		
	KINRO VINYL CLEAR (1500)	36 x 79 GUNSLOT-INSWING	18.96
	KINRO VINYL CLEAR (1500)	36 x 79 GUNSLOT-INSWING	16.32
	KINRO VINYL CLEAR (1500)	36 x 79 GUNSLOT-INSWING	11.61
19	KINRO VINYL CLEAR (1500)	36 x 79 GUNSLOT-INSWING	13.49
19	KINRO VINYL CLEAR (1500)	36 x 79 GUNSLOT-INSWING	8.57
1	KINRO VINYL CLEAR (1500)	36 x 80 COTTAGE-INSWING	8.06
	KINRO VINYL CLEAR (1500)	36 x 96 BLANK-INSWING	7.76
19			
19 19	1 1	5/0 x 6/8 SCD = SAFFTV	17 7
19 19 19	KINRO VINYL CLEAR (1500)	5/0 x 6/8 SGD - SAFETY	
19 19 19 19	KINRO VINYL CLEAR (1500) KINRO VINYL CLEAR (1500)	6/0 x 6/8 SGD - SAFETY	21.33
19 19 19 19	KINRO VINYL CLEAR (1500)		17.77 21.33 30.08 27.42

	THERMAL CALCULATION RESULTS									
TZ			FLOOR	A L (CULATION RESULTS DESCRIPTION	DUCT TYPE	סווו די	MAX NOM	AVAIL.	
2	21	11	11		KINRO VINYL CLEAR (1500)	INSULATED	PASS	158.07	81.50	
2	21	11	11		KINRO VINIL CLEAR (1500) KINRO VINYL LOW-E (1500)	INSULATED	PASS	244.55	167.98	
		11								
2	28		11		KINRO VINYL CLEAR (1500)	INSULATED	PASS	178.22	101.65	
2	28	11	11		KINRO VINYL LOW-E (1500)	INSULATED	PASS	275.72	199.15	
2	28	11	22	0.49	KINRO VINYL CLEAR (1500)	INSULATED	PASS	229.55	152.98	
2	28	11	22		KINRO VINYL LOW-E (1500)	INSULATED	PASS	355.13	278.56	
2	28	19	11	0.49	KINRO VINYL CLEAR (1500)	INSULATED	PASS	240.79	164.22	
2	28	19	11		KINRO VINYL LOW-E (1500)	INSULATED	PASS	357.77	281.20	
2	28	19	22	0.49	KINRO VINYL CLEAR (1500)	INSULATED	PASS	288.25	211.68	
2	28	19	22	0.35	KINRO VINYL LOW-E (1500)	INSULATED	PASS	428.28	351.71	
2	33	11	11	0.49	KINRO VINYL CLEAR (1500)	INSULATED	PASS	186.14	109.57	
2	33	11	11	0.35	KINRO VINYL LOW-E (1500)	INSULATED	PASS	287.98	211.41	
2	33	11	22	0.49	KINRO VINYL CLEAR (1500)	INSULATED	PASS	237.47	160.90	
2	33	11	22	0.35	KINRO VINYL LOW-E (1500)	INSULATED	PASS	367.38	290.81	
2	33	19	22	0.49	KINRO VINYL CLEAR (1500)	INSULATED	PASS	295.57	219.00	
2	33	19	22	0.35	KINRO VINYL LOW-E (1500)	INSULATED	PASS	439.16	362.59	
2	36	11	22		KINRO VINYL CLEAR (1500)	INSULATED	PASS	240.45	163.88	
2	36	11	22	0.35	KINRO VINYL LOW-E (1500)	INSULATED	PASS	371.99	295.42	
3	21	11	11	0.49	KINRO VINYL CLEAR (1500)	INSULATED	N/A	45.28	-31.29	
3	21	11	11		KINRO VINYL LOW-E (1500)	INSULATED	N/A	70.05	-6.52	
3	28	11	11		KINRO VINYL CLEAR (1500)	INSULATED	N/A	65.43	-11.13	
3	28	11	11		KINRO VINYL LOW-E (1500)	INSULATED	PASS	101.22	24.65	
3	28	11	22		KINRO VINYL CLEAR (1500)	INSULATED	PASS	116.75	40.18	
3	28	11	22		KINRO VINYL LOW-E (1500)	INSULATED	PASS	180.63	104.06	
3	28	19	11		KINRO VINYL CLEAR (1500)	INSULATED	PASS	136.50	59.93	
3	28	19	11		KINRO VINIE CHEAR (1900) KINRO VINYL LOW-E (1500)	INSULATED	PASS	202.81	126.24	
3	28	19	22		KINRO VINIL LOW-E (1500)	INSULATED	PASS	183.96	107.39	
3	28	19	22		KINRO VINIL CHEAR (1500)	INSULATED	PASS	273.32	196.75	
_					, , , , , , , , , , , , , , , , , , ,					
3	33	11	11		KINRO VINYL CLEAR (1500)	INSULATED	N/A	73.35	-3.22	
3	33	11	11		KINRO VINYL LOW-E (1500)	INSULATED	PASS	113.48	36.91	
3	33	11	22		KINRO VINYL CLEAR (1500)	INSULATED	PASS	124.67	48.10	
3	33	11	22	0.35	, , , , , ,	INSULATED	PASS	192.88	116.31	
3	33	19	22		KINRO VINYL CLEAR (1500)	INSULATED	PASS	191.28	114.71	
3	33	19	22	0.35	KINRO VINYL LOW-E (1500)	INSULATED	PASS	284.21	207.64	
3	36	11	22	0.49	KINRO VINYL CLEAR (1500)	INSULATED	PASS	127.65	51.08	
3	36	11	22		KINRO VINYL LOW-E (1500)	INSULATED	PASS	197.49	120.92	
SUI	BTRACT	2 S.	F. OF	GLAZI	NG FOR EACH S.F. OF SKYLIGHT AREA					
N/A	A = TH	IIS HO	OME CAN	NOT E	BE BUILT FOR THIS THERMAL ZONE WITH '	THESE CONDIT	IONS			

OPTIO	ONAL DOOR EQUIVALENT GLAZING AREA		
WALL	WINDOW	DOOR	AREA
19	KINRO VINYL CLEAR (1500)	8/0 x 6/8 SGD - SAFETY	33.42
19	KINRO VINYL CLEAR (1500)	8/0 x 8/0 SGD - SAFETY	61.01
19	KINRO VINYL LOW-E (1500)	32 x 76 COTTAGE	33.78
19	KINRO VINYL LOW-E (1500)	32 x 76 COTTAGE-INSWING	14.24
19	KINRO VINYL LOW-E (1500)	32 x 77 COTTAGE	12.93
19	KINRO VINYL LOW-E (1500)	32 x 79 BLANK-INSWING	8.69
19	KINRO VINYL LOW-E (1500)	32 x 79 COTTAGE-INSWING	14.78
19	KINRO VINYL LOW-E (1500)	32 x 79 COTTAGE-INSWING	14.78
19	KINRO VINYL LOW-E (1500)	36 x 78 BLANK-OUTSWING	9.63
19	KINRO VINYL LOW-E (1500)	36 x 79 BLANK-INSWING	9.70
19	KINRO VINYL LOW-E (1500)	36 x 79 COTTAGE-INSWING	16.50
19	KINRO VINYL LOW-E (1500)	36 x 79 GUNSLOT-INSWING	28.17
19	KINRO VINYL LOW-E (1500)	36 x 79 GUNSLOT-INSWING	24.25
19	KINRO VINYL LOW-E (1500)	36 x 79 GUNSLOT-INSWING	17.26
19	KINRO VINYL LOW-E (1500)	36 x 79 GUNSLOT-INSWING	20.05
19	KINRO VINYL LOW-E (1500)	36 x 79 GUNSLOT-INSWING	12.73
19	KINRO VINYL LOW-E (1500)	36 x 80 COTTAGE-INSWING	11.97
19	KINRO VINYL LOW-E (1500)	36 x 96 BLANK-INSWING	11.52
19	KINRO VINYL LOW-E (1500)	5/0 x 6/8 SGD - SAFETY	26.41
19	KINRO VINYL LOW-E (1500)	6/0 x 6/8 SGD - SAFETY	31.69
19	KINRO VINYL LOW-E (1500)	6/0 x 8/0 SGD - SAFETY	44.69
19	KINRO VINYL LOW-E (1500)	72 x 79 FRENCH - SAFETY	40.74
19	KINRO VINYL LOW-E (1500)	72 x 79 FRENCH - SAFETY-INSWIN	41.24
19	KINRO VINYL LOW-E (1500)	8/0 x 6/8 SGD - SAFETY	49.65
19	KINRO VINYL LOW-E (1500)	8/0 x 8/0 SGD - SAFETY	90.65

DESIG	N, CEF	RTIFICATION & ECONOMY TEMPERATURES			
STATE	TYPE	FURNACE	DT	CT	ET
AZ	ELEC	17 KW ELECTRIC FURN-A/C READY UP TO 4 TONS	9	-91	-43
AZ	ELEC	20 KW ELECTRIC FURN-A/C READY UP TO 4 TONS	9	-123	-65
AZ	GAS	56K BTUH 80% AFUE AUTO GAS FURN	9	-60	-21
AZ	GAS	77K BTUH 80% AFUE AUTO GAS FURN	9	-108	-55
CA	ELEC	17 KW ELECTRIC FURN-A/C READY UP TO 4 TONS	22	-91	-43
CA	ELEC	20 KW ELECTRIC FURN-A/C READY UP TO 4 TONS	22	-123	-65
CA	GAS	56K BTUH 80% AFUE AUTO GAS FURN	22	-60	-21
CA	GAS	77K BTUH 80% AFUE AUTO GAS FURN	22	-108	-55
CO	ELEC	17 KW ELECTRIC FURN-A/C READY UP TO 4 TONS	-5	-115	-59
CO	ELEC	20 KW ELECTRIC FURN-A/C READY UP TO 4 TONS	-5	-151	-85
CO	GAS	56K BTUH 80% AFUE AUTO GAS FURN	-5	-79	-34
CO	GAS	77K BTUH 80% AFUE AUTO GAS FURN	-5	-135	-73
NM	ELEC	17 KW ELECTRIC FURN-A/C READY UP TO 4 TONS	1	-91	-43
NM	ELEC	20 KW ELECTRIC FURN-A/C READY UP TO 4 TONS	1	-123	-65
NM	GAS	56K BTUH 80% AFUE AUTO GAS FURN	1	-60	-21
NM	GAS	77K BTUH 80% AFUE AUTO GAS FURN	1	-108	-55
NV	ELEC	17 KW ELECTRIC FURN-A/C READY UP TO 4 TONS	- 4	-115	-59
NV	ELEC	20 KW ELECTRIC FURN-A/C READY UP TO 4 TONS	- 4	-151	-85
NV	GAS	56K BTUH 80% AFUE AUTO GAS FURN	- 4	-79	-34
NV	GAS	77K BTUH 80% AFUE AUTO GAS FURN	- 4	-135	-73
UT	ELEC	17 KW ELECTRIC FURN-A/C READY UP TO 4 TONS	0	-115	-59
UT	ELEC	20 KW ELECTRIC FURN-A/C READY UP TO 4 TONS	0	-151	-85
UT	GAS	56K BTUH 80% AFUE AUTO GAS FURN	0	-79	-34
UT	GAS	77K BTUH 80% AFUE AUTO GAS FURN	0	-135	-73

STANDARD OPENINGS						
QTY	SIZE	DESCRIPTION	TYPE	AREA	TOTAL	U VALUE
2	36 x 79	BLANK-INSWING	DOOR	21.78	43.56	0.190
1	30 x 36	SGL HUNG WINDOW	WINDOW	7.68	7.68	
4	30 x 59	SGL HUNG WINDOW	WINDOW	12.47	49.88	
1	46 x 59	SGL HUNG WINDOW	WINDOW	19.01	19.01	
TOTA	TOTAL WINDOW AREA:					
SEE THERMAL CHART FOR WINDOW U VALUES						

RECOMME	RECOMMENDED A/C SIZ		
STATE	DESIGN TEMP	TONS	
AZ	80- 99	2.0	
AZ	100-105	2.5	
AZ	106-110	3.0	
CA	80- 99	2.0	
CA	100-105	2.5	
CA	106-110	3.0	
CO	80-101	2.0	
CO	102-106	2.5	
NM	80- 99	2.0	
NM	100-105	2.5	
NM	106-110	3.0	
NV	80-101	2.0	
NV	102-106	2.5	
UT	80-101	2.0	
UT	102-106	2.5	



220

PRODUCT NAME

CANYON LAKE

MODEL NO.

15562X

DRAWING TITLE

ALTERNATE 1 THERMAL SPECS

DRAWN BY:

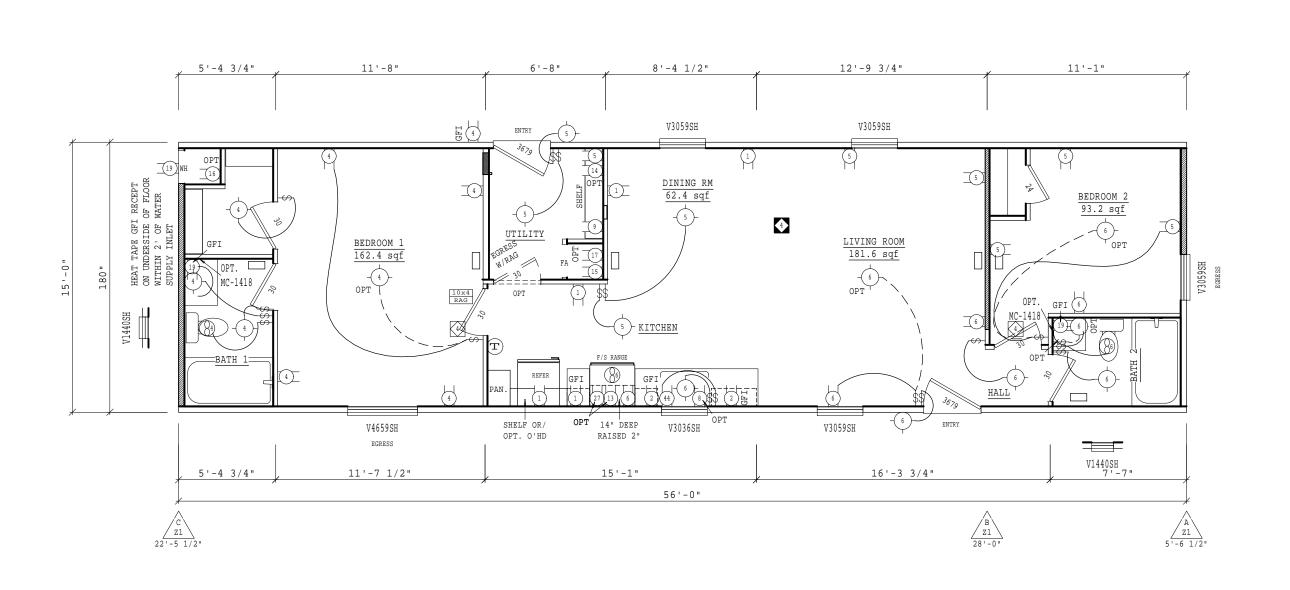
MARIBEL L.

04/18/16

52' PLAN #1

TS1.1

22CL15562Xa1



NOTES:

- 1. RECEPT SHALL NOT BE INSTALLED WITHIN 30" OF TUB/SHOWER SPACE.
- 2. ELECTRICAL WALL PLATES SHALL NOT BE INSTALLED WITHIN 6" OF A RANGE OR COOKTOP.

THIS FLOOR PLAN AND ATTACHED OPTION DETAILS (IF APPLICABLE) IS DESIGNED TO MEET THE FOLLOWING STRUCTURAL REQUIREMENTS: WIND ZONE(S) 1 ROOF LOAD(S) 20, 30 Lbs.

PERIMETER PIERING REQUIRED WHEN ROOF LIVE LOAD > 20 psf



RECEPTACLE

L E G E N D

SA, CO &/OR COMBO SA/CO

\$ SWITCH
THERMOSTAT

SMOKE ALARM

LIGHT FIXTURE

SMOKE ALARM
W/ HUSH BUTTON

FLUORESCENT LIGHT

RECESSED LIGHT

EXHAUST FAN

PANEL BOX

ST SOLAR TUBE

SA AIR
SUPPLY

RA 14"RETURN AIR

RAG RETURN AIR GRILLE

OVERHEAD REGISTER

FLOOR REGISTER

WALL-MOUNTED
REGISTER

CROSS-OVER
LOCATION

X SUPPORT POST

SHEARWALL

(A) 180 x 56'-0'

B x

<u>С</u> х

FLEETWOOD HOMES

> RIVERSIDE 220

PRODUCT NAME

CANYON LAKE

MODEL NO.

15562X

DRAWING TITLE

FLOOR PLAN

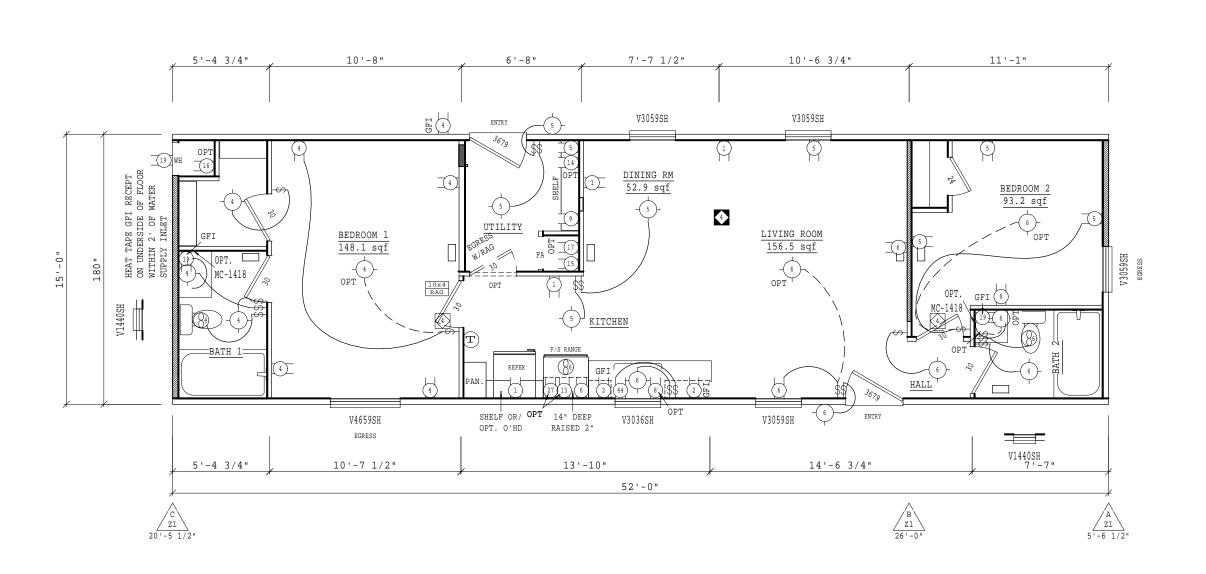
DRAWN BY:

MARIBEL L.

04/18/16

FP.1

22CL15562X



NOTES:

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PERIMETER PIERING REQUIRED WHEN ROOF LIVE LOAD > 20 psf



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L E G E N D

SA, CO &/OR COMBO SA/CO

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W/ HUSH BUTTON

LIGHT FIXTURE

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LIGHT

EXHAUST FAN

PANEL BOX

ST SOLAR TUBE

AIR
SUPPLY

RA 14 "RETURN AIR

RAG RETURN AIR GRILLE

OVERHEAD REGISTER

FLOOR REGISTER

WALL-MOUNTED REGISTER

() CROSS-OVER LOCATION

X SUPPORT POST

SHEARWALL

(A) 180 x 52'-0'

B x

(C) x

FLEETWOOD HOMES

RIVERSIDE 220

PRODUCT NAME

CANYON LAKE

MODEL NO.

15562X

DRAWING TITLE

ALTERNATE 1 FLOOR PLAN

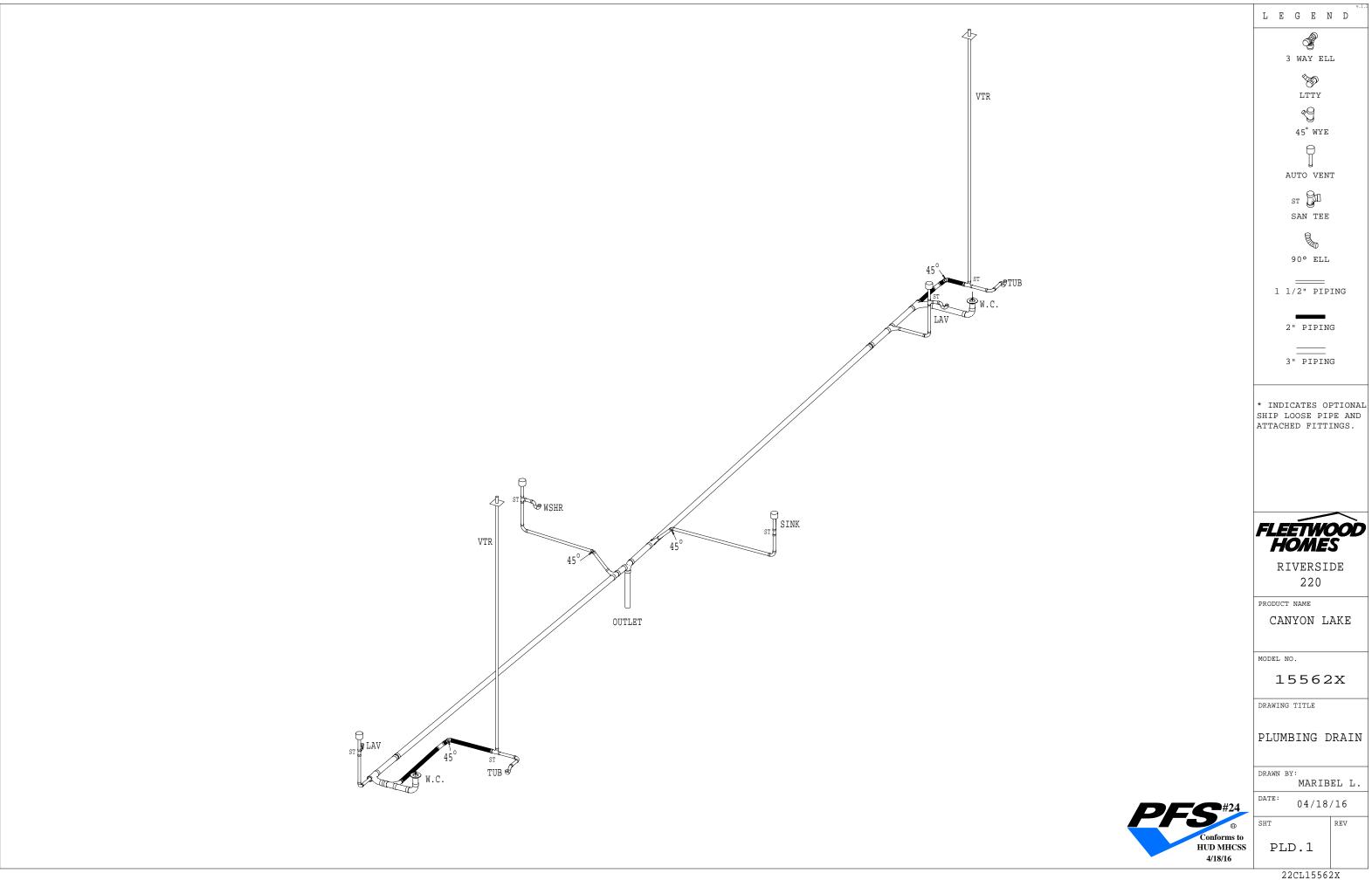
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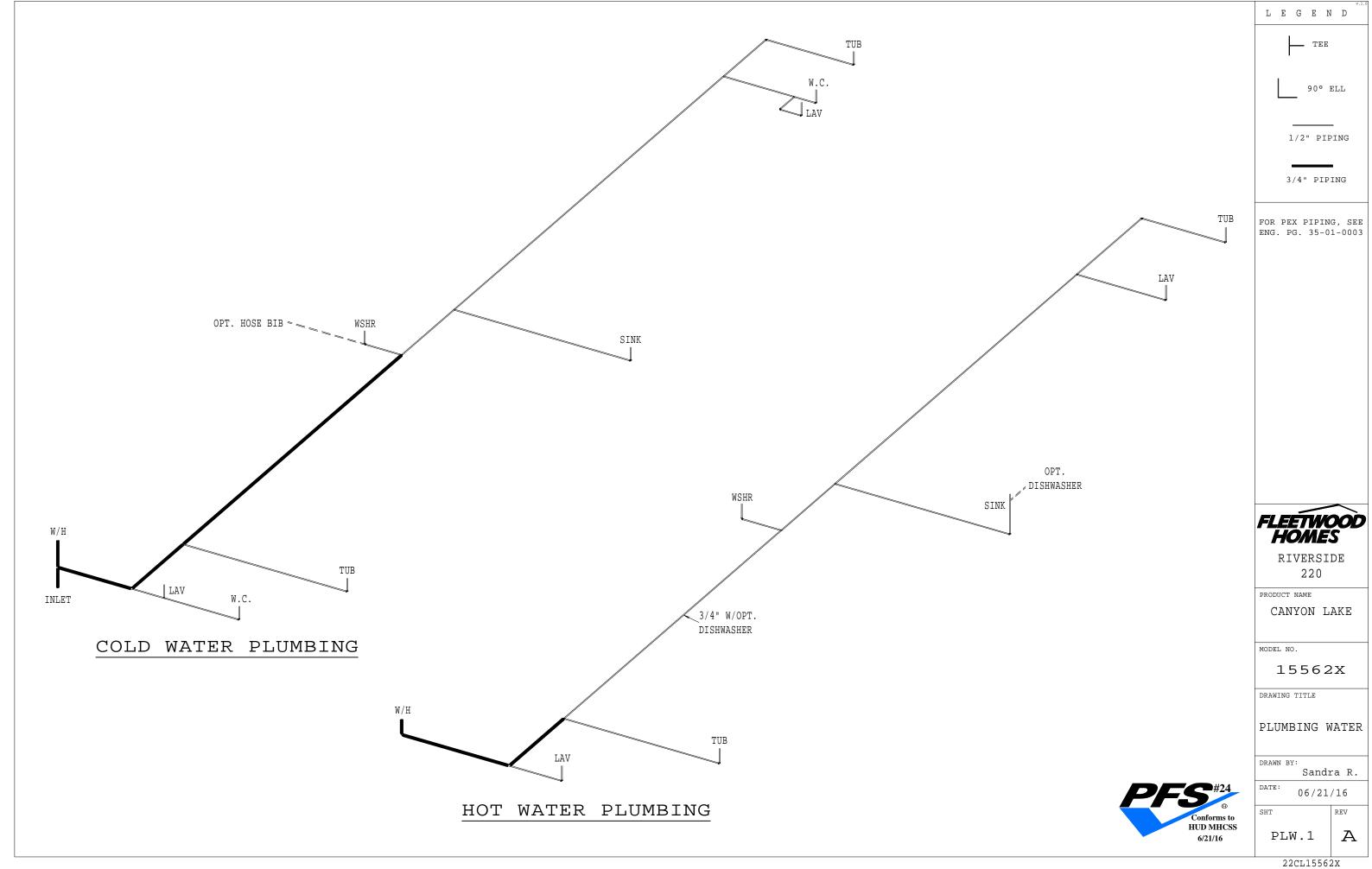
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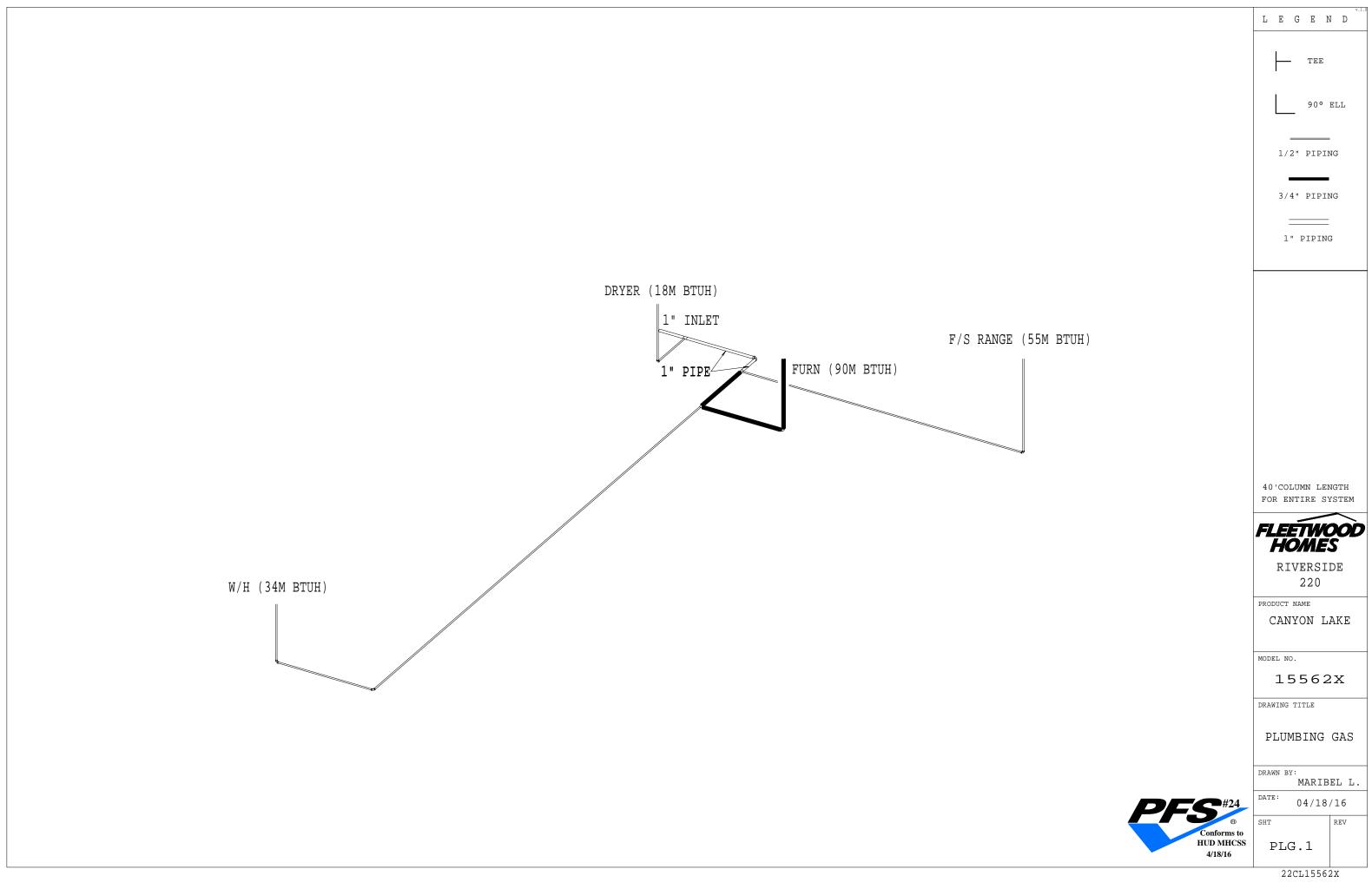
04/18/16

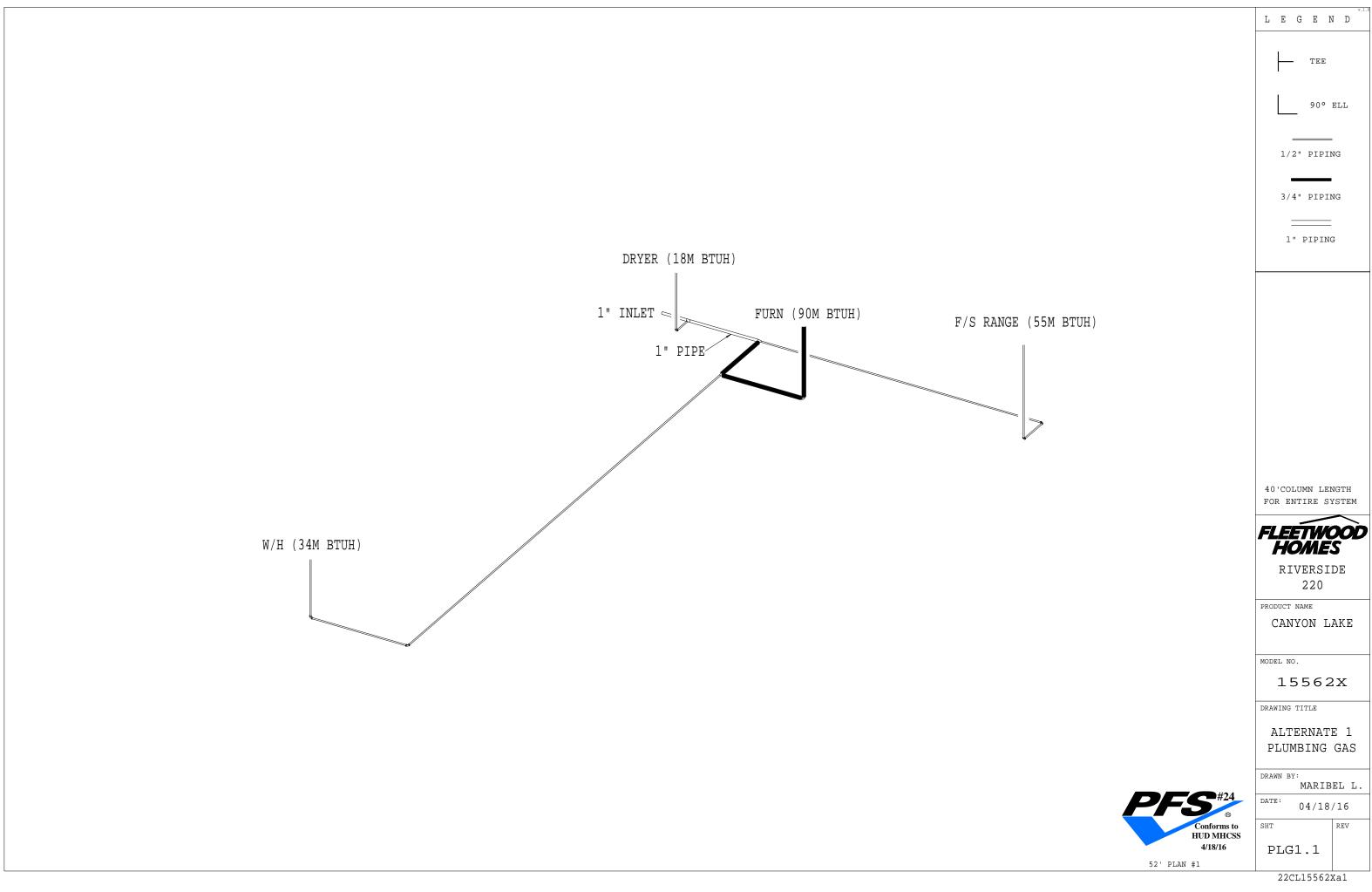
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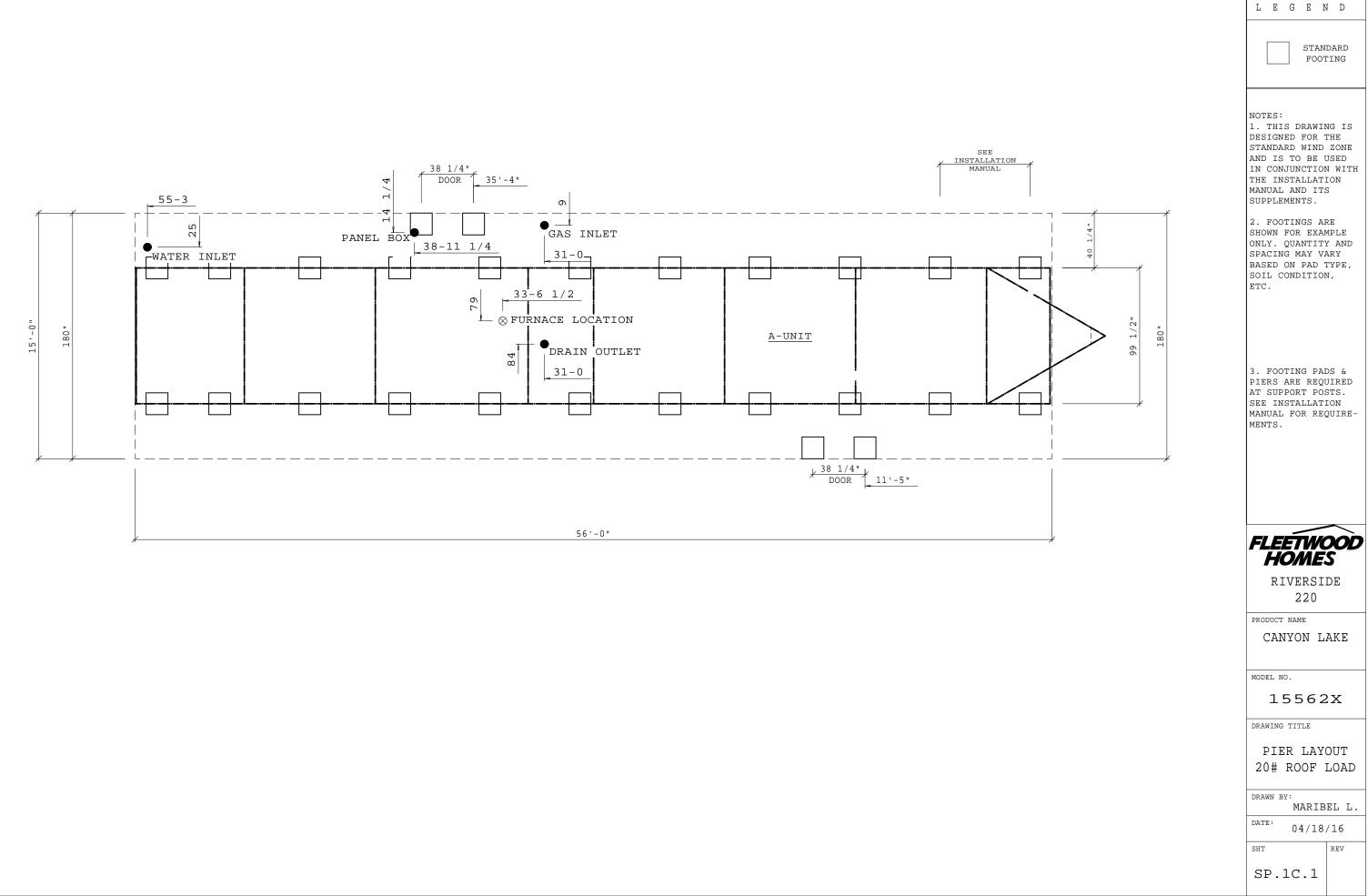
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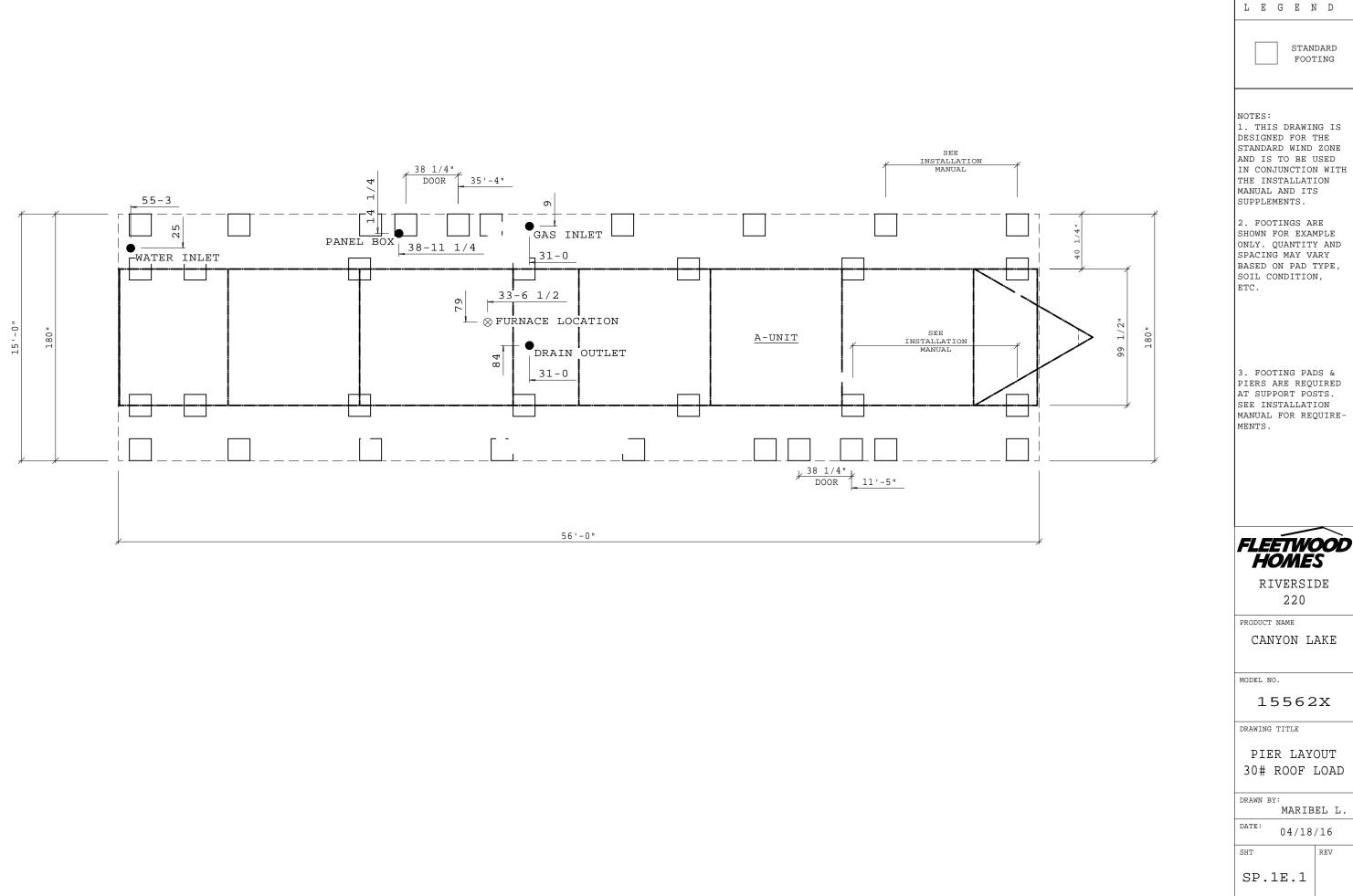




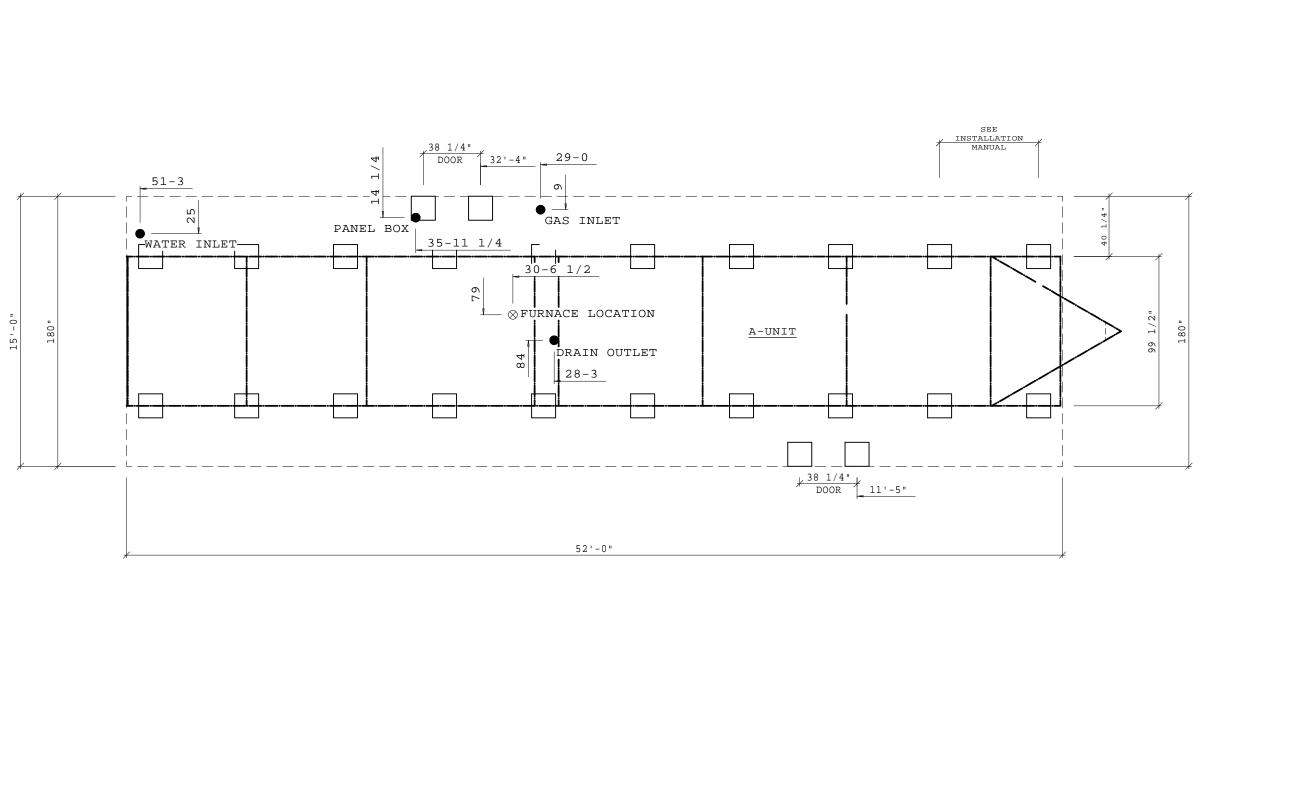








22CL15562X



L E G E N D

STANDARD FOOTING

NOTES:

1. THIS DRAWING IS
DESIGNED FOR THE
STANDARD WIND ZONE
AND IS TO BE USED
IN CONJUNCTION WITH
THE INSTALLATION
MANUAL AND ITS
SUPPLEMENTS.

2. FOOTINGS ARE
SHOWN FOR EXAMPLE
ONLY. QUANTITY AND
SPACING MAY VARY
BASED ON PAD TYPE,
SOIL CONDITION,
ETC.

3. FOOTING PADS & PIERS ARE REQUIRED AT SUPPORT POSTS. SEE INSTALLATION MANUAL FOR REQUIRE-MENTS.



RIVERSIDE 220

PRODUCT NAME

CANYON LAKE

MODEL NO.

15562X

DRAWING TITLE

ALTERNATE 1
PIER LAYOUT
20# ROOF LOAD

DRAWN BY:

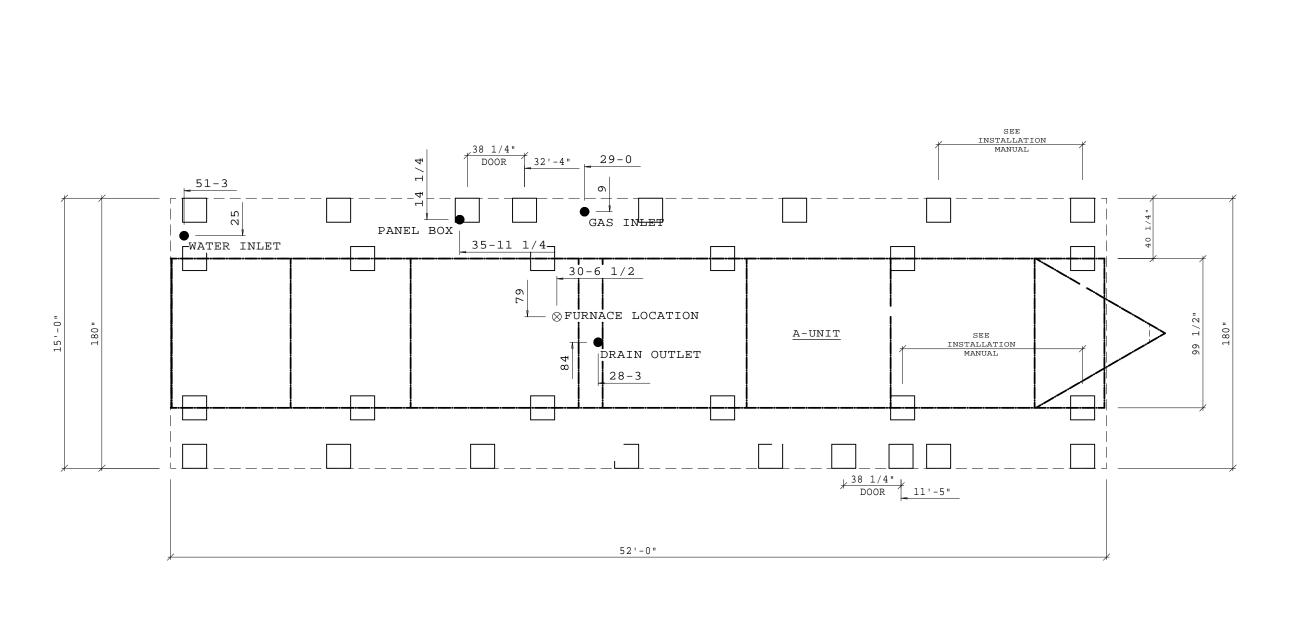
MARIBEL L.

04/18/16

SHT

SP1.1C.1

REV



L E G E N D

STANDARD FOOTING

NOTES:

1. THIS DRAWING IS
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STANDARD WIND ZONE
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RIVERSIDE 220

PRODUCT NAME

CANYON LAKE

MODEL NO.

15562X

DRAWING TITLE

ALTERNATE 1
PIER LAYOUT
30# ROOF LOAD

DRAWN BY:

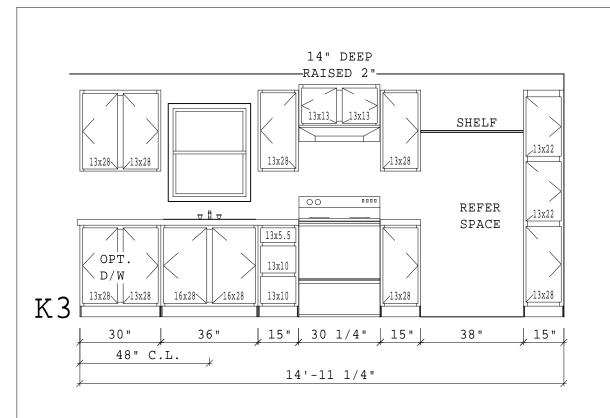
MARIBEL L.

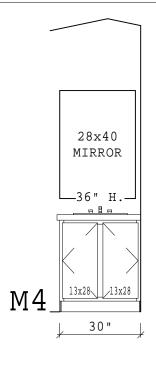
04/18/16

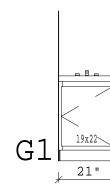
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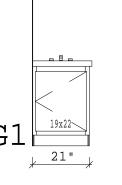
REV

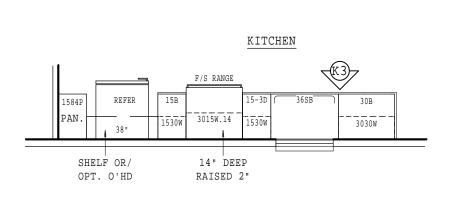
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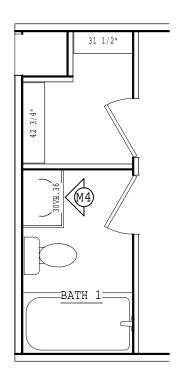


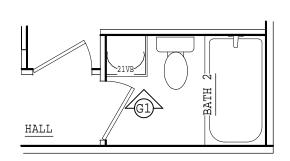














220

PRODUCT NAME

CANYON LAKE

MODEL NO.

15562X

DRAWING TITLE

CABINET ELEVATIONS

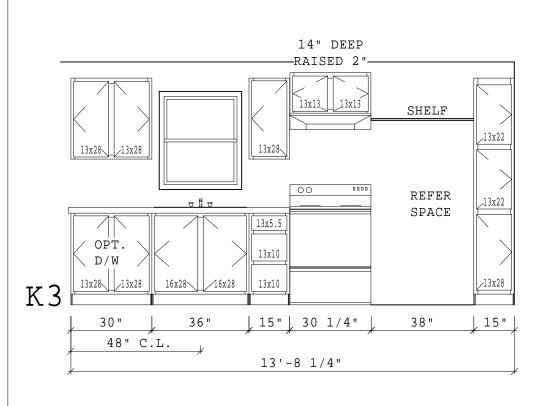
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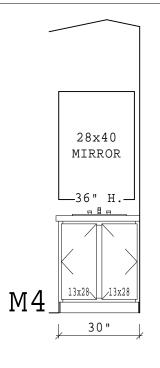
Sandra R.

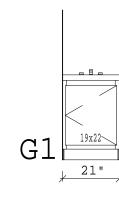
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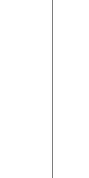
CE.1

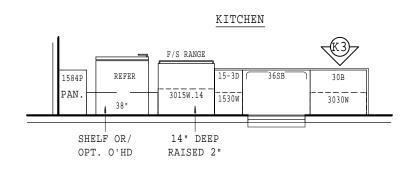
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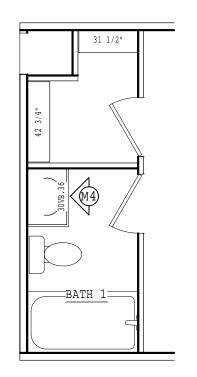


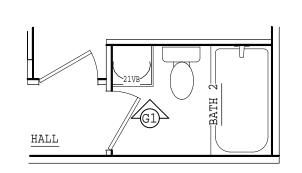














220

CANYON LAKE

PRODUCT NAME

MODEL NO.

15562X

DRAWING TITLE

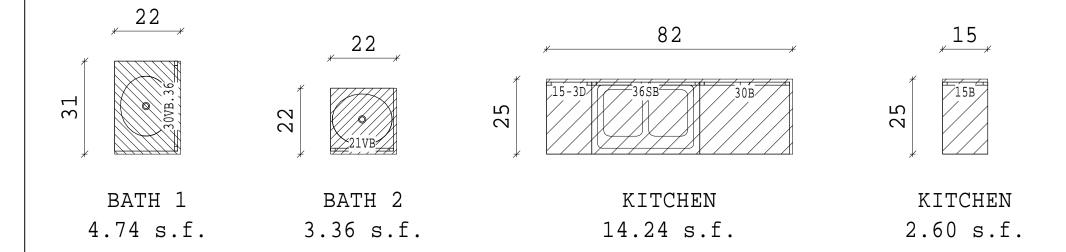
ALTERNATE 1 CABINET ELEVATIONS

DRAWN BY:

Sandra R. 05/11/16

CE1.1

52' PLAN #1





220 PRODUCT NAME

CANYON LAKE

MODEL NO.

15562X

DRAWING TITLE

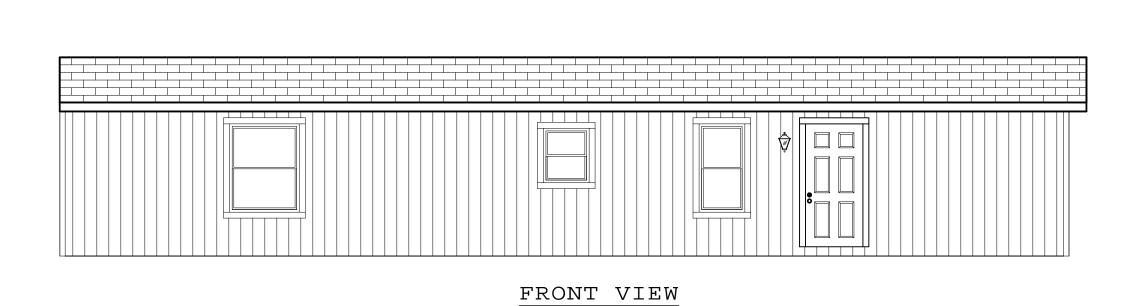
COUNTERTOPS

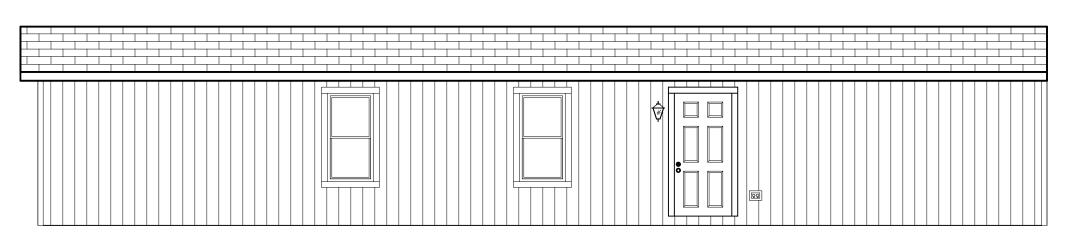
DRAWN BY:

MARIBEL L.

04/18/16

CT.1





REAR VIEW



PRODUCT NAME

CANYON LAKE

MODEL NO.

15562X

DRAWING TITLE

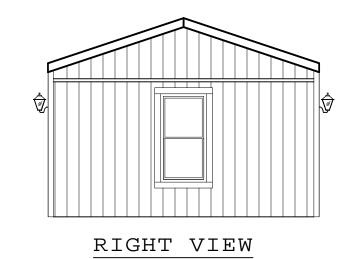
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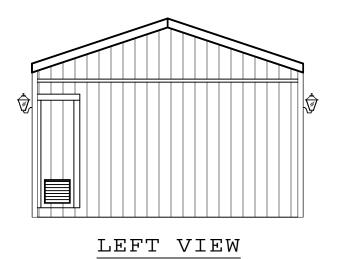
DRAWN BY:

Sandra R.

DATE: 05/11/16

EE.1







220

PRODUCT NAME

CANYON LAKE

MODEL NO.

15562X

DRAWING TITLE

EXTERIOR ELEVATIONS

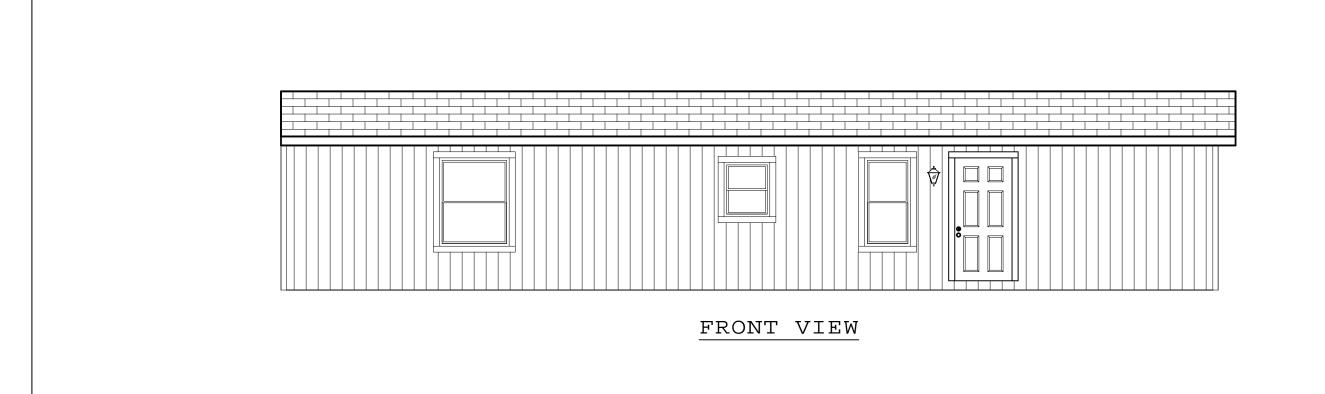
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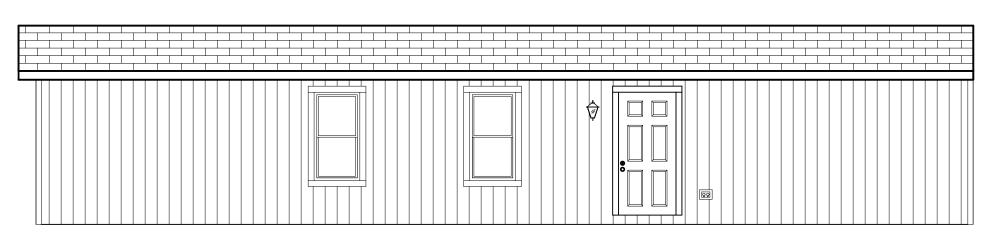
Sandra R.

DATE: 05/11/16

EE.2

REV





REAR VIEW



PRODUCT NAME

CANYON LAKE

MODEL NO.

15562X

DRAWING TITLE

ALTERNATE 1
EXTERIOR
ELEVATIONS

DRAWN BY:

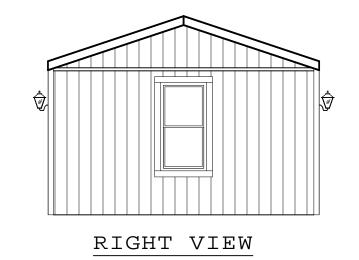
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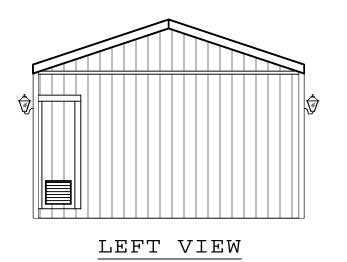
05/11/16

SHT

EE1.1

52' PLAN #1







RIVERSIDE 220

PRODUCT NAME

CANYON LAKE

MODEL NO.

15562X

DRAWING TITLE

ALTERNATE 1
EXTERIOR
ELEVATIONS

DRAWN BY:

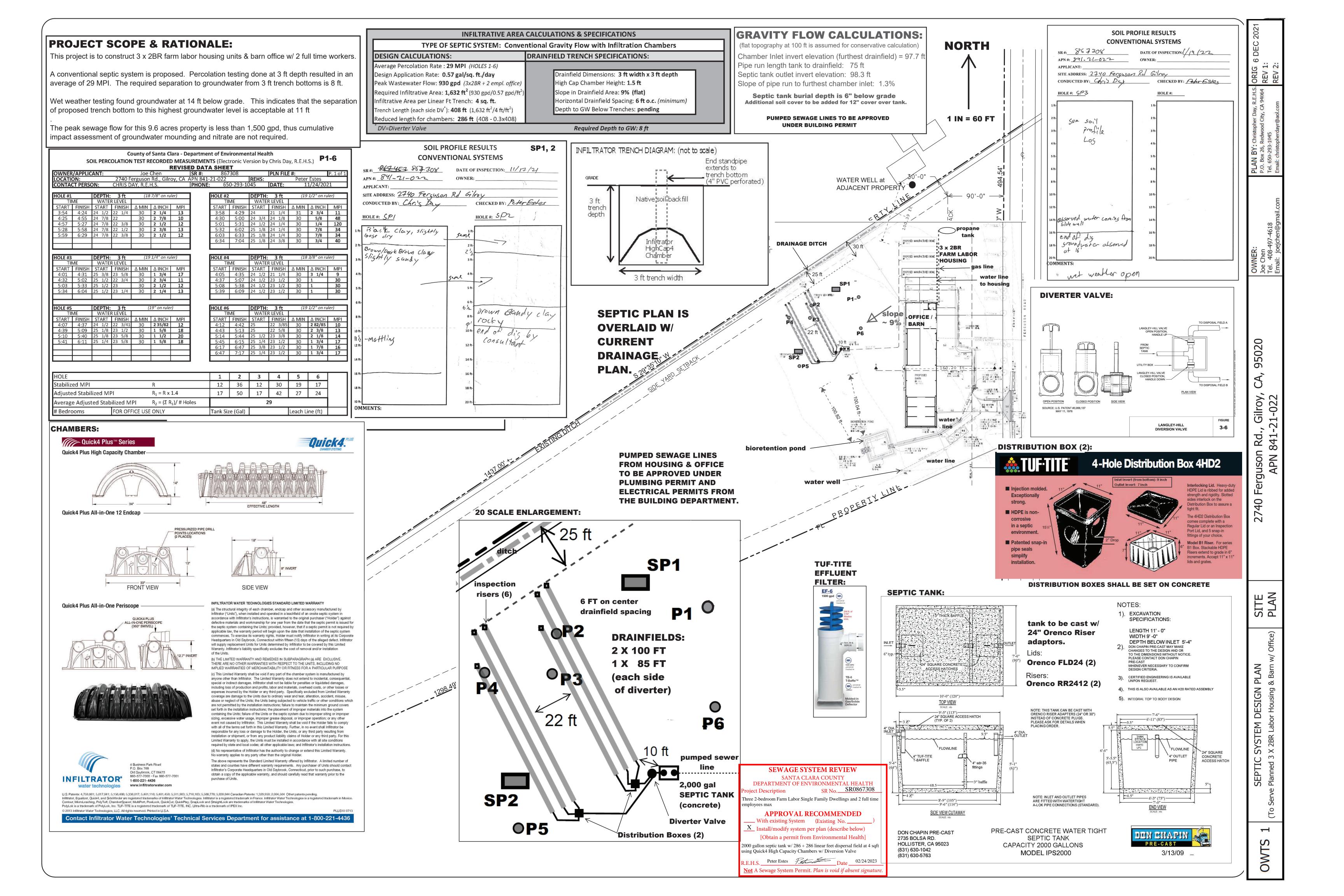
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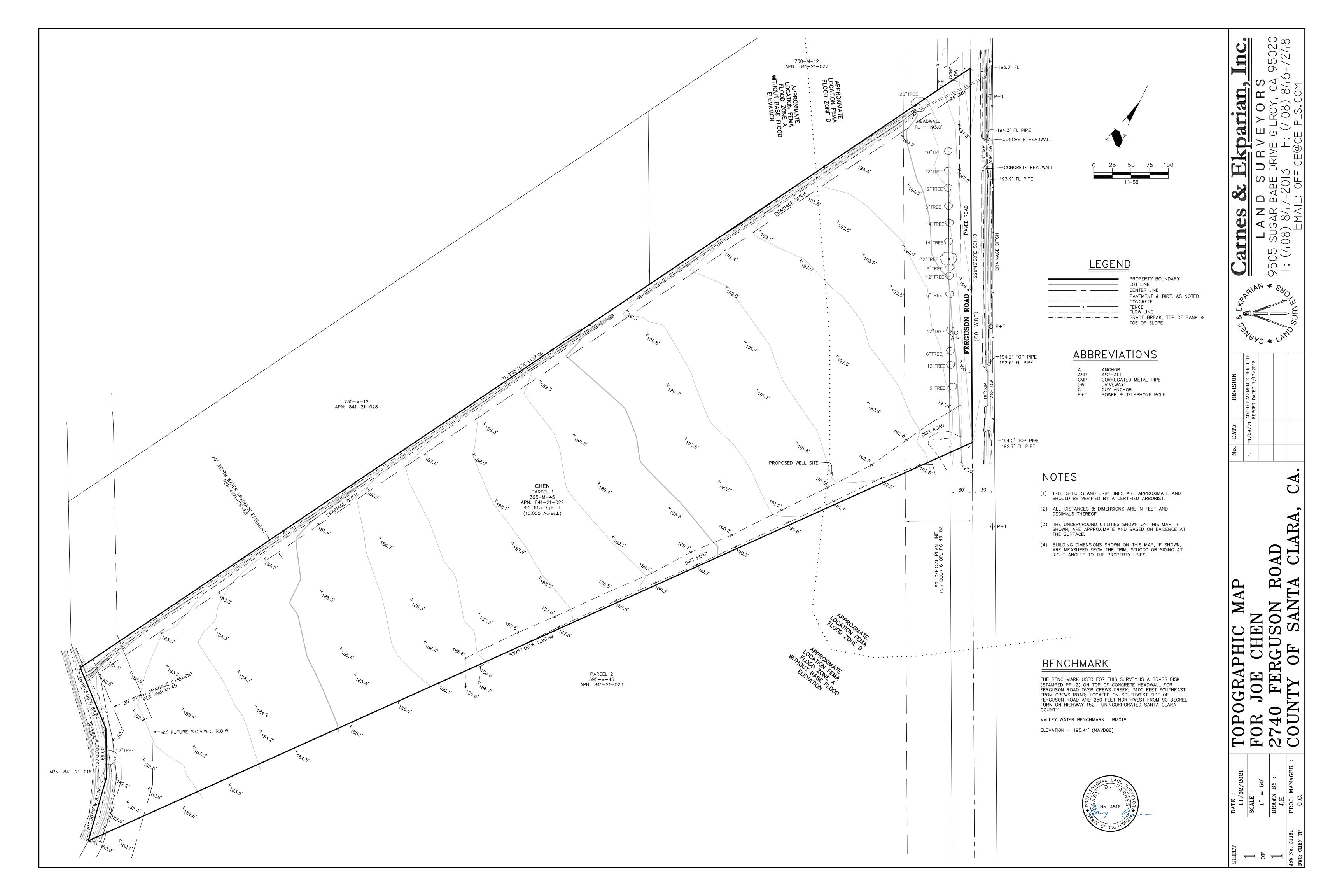
DATE: 05/11/16

ΙΤ

EE1.2

52' PLAN #1





COUNTY OF SANTA CLARA General Construction

GENERAL CONDITIONS

- ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS AND/OR GEOTECHNICAL REPORT PREPARED BY GEO-LOGIC ASSOCIATES (PROJECT NO PA23.1018.00) AND DATED JUNE 1, 2023 THIS REPORT IS SUPPLEMENTED BY: 1) THESE PLANS AND SPECIFICATIONS, 2) THE COUNTY OF SANTA CLARA STANDARD DETAILS. 3) THE COUNTY OF SANTA CLARA STANDARD SPECS, 4) STATE OF CALIFORNIA STANDARD DETAILS, 5) STATE OF CALIFORNIA STANDARD SPECIFICATIONS. IN THE EVENT OF CONFLICT THE FORMER SHALL TAKE PRECEDENCE OVER THE LATTER. THE PERFORMANCE AND COMPLETION OF ALL WORK MUST BE TO THE SATISFACTION OF THE COUNTY.
- DEVELOPER IS RESPONSIBLE FOR INSTALLATION OF THE IMPROVEMENTS SHOWN ON THESE PLANS AND HE OR HIS SUCCESSOR PROPERTY OWNERS ARE RESPONSIBLE FOR THEIR CONTINUED MAINTENANCE
- DEVELOPER SHALL BE RESPONSIBLE FOR CORRECTION OF ANY ERRORS OR OMISSIONS IN THESE PLANS. THE COUNTY SHALL BE AUTHORIZED TO REQUIRE DISCONTINUANCE OF ANY WORK AND SUCH CORRECTION AND MODIFICATION OF PLANS AS MAY BE NECESSARY TO COMPLY WITH COUNTY STANDARDS OR CONDITIONS OF DEVELOPMENT APPROVAL. DEVELOPER SHALL OBTAIN ENCROACHMENT PERMITS FROM THE SANTA CLARA VALLEY
- WATER DISTRICT AND CALIFORNIA DEPARTMENT OF TRANSPORTATION WHERE NEEDED. COPIES OF THESE PERMITS SHALL BE KEPT AT THE JOB SITE FOR REVIEW BY THE COUNTY'S INSPECTOR
- (15) FOOT VERTICAL CLEARANCE FOR ROADWAY AREA. THIS PLAN AUTHORIZES THE REMOVAL OF ONLY THOSE TREES WITH TRUNK DIAMETERS
- GREATER THAN 12 INCHES MEASURED 4.5 FEET ABOVE THE GROUND THAT ARE SHOWN TO BE REMOVED UNLESS AN AMENDED PLAN IS APPROVED OR A SEPARATE TREE REMOVAL PERMIT IS OBTAINED FROM THE PLANNING OFFICE. IT IS THE CONTRACTOR'S DEVELOPER SHALL PROVIDE ADEQUATE DUST CONTROL AS REQUIRED BY THE COUNTY
- ALL PERSONS MUST COMPLY WITH SECTION 4442 OF THE PUBLIC RESOURCES CODE AND SECTION 13005 OF THE HEALTH AND SAFETY CODE RELATING TO THE USE OF SPARK
- UPON DISCOVERING OR UNEARTHING ANY BURIAL SITE AS EVIDENCED BY HUMAN SKELETAL REMAINS OR ARTIFACTS, THE PERSON MAKING SUCH DISCOVERY SHALL IMMEDIATELY NOTIFY THE COUNTY CORONER AT (408) 454-2520 AND LAND DEVELOPMENT ENGINEERING OFFICE AT (408) 299-5730. NO FURTHER DISTURBANCE OF THE SITE MAY BE MADE EXCEPT AS AUTHORIZED BY THE LAND DEVELOPMENT OFFICE IN ACCORD WITH PROVISIONS OF THIS ORDINANCE (COUNTY ORDINANCE CODE SECTION B6-18).
- THESE PLANS ARE FOR THE WORK DESCRIBED IN THE SCOPE OF WORK ONLY. A SEPARATE PERMIT WILL BE REQUIRED FOR THE SEPTIC LINE CONSTRUCTION. ANY DEVIATION FROM THESE APPROVED PLANS SHALL BE RE-APPROVED IN WRITING BY THE COUNTY ENGINEER PRIOR TO CONSTRUCTION.

CONSTRUCTION STAKING

- THE DEVELOPER'S ENGINEER IS RESPONSIBLE FOR THE INITIAL PLACEMENT AND REPLACEMENT OF CONSTRUCTION GRADE STAKES. THE STAKES ARE TO BE ADEQUATELY IDENTIFIED, LOCATED, STABILIZED, ETC. FOR THE CONVENIENCE OF CONTRACTORS. LATERAL OFFSET OF STAKES SET FOR CURBS AND GUTTERS SHALL NOT EXCEED 2 1/2 FEET FROM BACK OF CURB.
- ANY PROPERTY LINE STAKES OR ROAD MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY DEVELOPER'S ENGINEER AND LICENSED LAND SURVEYOR.
- PROPERTY LINE STAKING MUST BE PERFORMED BY THE PROJECT ENGINEER OR LAND SURVEYOR TO ESTABLISH OR RE-ESTABLISH THE PROJECT BOUNDARY AND SHALL BE INSPECTED BY THE COUNTY INSPECTOR PRIOR TO THE BEGINNING OF THE WORK.
- PROPER CONSTRUCTION STAKES SHALL BE SET IN THE FIELD BY THE PROJECT ENGINEER OR LAND SURVEYOR AND VERIFIED BY THE COUNTY INSPECTOR PRIOR TO THE COMMENCEMENT OF GRADING.
- IN ACCORDANCE WITH THE CALIFORNIA PROFESSIONAL LAND SURVEYORS' ACT (BUSINESS AND PROFESSIONS CODE) CHAPTER 15 SECTIONS 8771 AND 8725.1, CALIFORNIA PENAL CODE 605, AND CALIFORNIA GOVERNMENT CODE 27581, ANY PERSON PERFORMING CONSTRUCTION ACTIVITIES THAT WILL OR MAY DISTURB AN EXISTING ROADWAY/STREET MONUMENT, PROPERTY CORNER, OR ANY OTHER PERMANENT SURVEYED MONUMENT AND/OR AS SHOWN ON THIS TENTATIVE MAP SHALL ENSURE THAT A CORNER RECORD AND/OR RECORD OF SURVEY ARE FILED WITH THE OCUNTY SURVEYOR OFFICE PRIOR TO DISTURBING SAID MONUMENTS. ALL DISTURBED OR DESTROYED MONUMENTS SHALL BE RESET AND FILED IN COMPLIANCE

CONSTRUCTION INSPECTION

WITH SECTION 8771.

PUBLIC USE)

- CONTRACTOR SHALL NOTIFY PERMIT INSPECTION UNIT, SANTA CLARA COUNTY PRIOR TO COMMENCING WORK AND FOR FINAL INSPECTION OF WORK AND SITE. THE COUNTY REQUIRES A MINIMUM OF 24 HOURS ADVANCE NOTICE FOR GENERAL INSPECTION, 48 HOURS FOR ASPHALT CONCRETE INSPECTION.
- INSPECTION BY SANTA CLARA COUNTY SHALL BE LIMITED TO INSPECTION OF MATERIALS AND PROCESSES OF CONSTRUCTION TO OBSERVE THEIR COMPLIANCE WITH PLANS & SPECIFICATIONS BUT DOES NOT INCLUDE RESPONSIBILITY FOR THE SUPERINTENDENT OF CONSTRUCTION, SITE CONDITIONS, EQUIPMENT OR PERSONNEL CONTRACTOR SHALL NOTIFY THE COUNTY LAND DEVELOPMENT INSPECTOR AT PHONE (408) 299-6868 AT LEAST 24 HOURS PRIOR TO COMMENCING WORK AND FOR FINAL INSPECTION OF WORK AND SITE.
- DEVELOPER AND/OR HIS AUTHORIZED REPRESENTATIVE MUST SUBMIT WRITTEN REQUEST FOR FINAL INSPECTION AND ACCEPTANCE. SAID REQUEST SHALL BE DIRECTED TO THE INSPECTION OFFICE NOTED ON THE PERMIT FORM. THE CONTRACTOR SHALL PROVIDE TO THE COUNTY CONSTRUCTION INSPECTOR WITH PAD ELEVATION AND LOCATION CERTIFICATES, PREPARED BY THE PROJECT ENGINEER OR LAND SURVEYOR, PRIOR COMMENCEMENT OF THE BUILDING FOUNDATION.

<u>SITE PREPARATION (CLEARING AND GRUBBING)</u>

- EXISTING TREES AUTHORIZED FOR REMOVAL, ROOTS, AND FOREIGN MATERIAL IN AREAS 3. SEE EXISTING TREE PROTECTION DETAILS FOR MORE INFORMATION. TO BE IMPROVED WILL BE REMOVED TO AN AUTHORIZED DISPOSAL SITE AS FOLLOWS: TO A MINIMUM DEPTH OF TWO FEET BELOW THE FINISHED GRADE OF PROPOSED ROADWAYS (EITHER PRIVATE OR TO BE DEDICATED TO
- FROM AREAS AFFECTED BY THE PROPOSED GRADING EXCEPT WHERE NOTED ON THE PLANS.
- IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO MOVE OR RELOCATE UTILITY

POLES AND OTHER OBSTRUCTIONS IN THE WAY OF CONSTRUCTION. <u>UTILITY LOCATION, TRENCHING & BACKFILI</u>

- CONTRACTOR SHALL NOTIFY USA (UNDERGROUND SERVICE ALERT) AT 1-800-277-2600 A MINIMUM OF 24 HOURS BEFORE BEGINNING UNDERGROUND WORK FOR VERIFICATION OF THE LOCATION OF UNDERGROUND UTILITIES
- ACCURATE VERIFICATION AS TO SIZE, LOCATION, AND DEPTH OF EXISTING UNDERGROUND CONDUITS OR FACILITIES SHALL BE THE INDIVIDUAL CONTRACTORS RESPONSIBILITY. PLAN LOCATIONS ARE APPROXIMATE AND FOR GENERAL INFORMATION
- ALL UNDERGROUND INSTALLATIONS SHALL BE IN PLACE AND THE TRENCH BACKFILLED AND COMPACTED BEFORE PLACING AGGREGATE BASE MATERIAL OR SURFACE STRUCTURES. SURFACING MAY BE DONE IF THE UTILITY COMPANY CONCERNED INDICATES BY LETTER THAT IT WILL BORE. UNLESS SPECIFICALLY AUTHORIZED BY THE COUNTY, GAS AND WATER MAINS SHALL BE INSTALLED OUTSIDE THE PAVED AREAS.
- TRENCH BACKFILL IN EXISTING PAVEMENT AREAS SHALL BE SAND MATERIAL IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE SPECIFICATIONS. THE STRUCTURAL SECTION FOR TRENCH REPLACEMENT SHALL CONSIST OF NOT LESS THAN 12 INCHES OF APPROVED AGGREGATE BASE MATERIAL COMPACTED TO A RELATIVE COMPACTION OF AT LEAST 95% AND 4 INCHES OF HOT ASPHALT CONCRETE PLACED IN TWO LIFTS. TRENCH RESTORATION FOR HIGHER TYPE PAVEMENTS SHALL BE MADE IN
- KIND OR AS DIRECTED BY THE COUNTY. TRENCH BACKFILL IN NEW CONSTRUCTION AREAS SHALL BE SAND MATERIAL COMPACTED TO A RELATIVE COMPACTION OF AT LEAST 90%. THE REQUIREMENT FOR SELECT MATERIAL MAY BE WAIVED BY COUNTY IF THE NATIVE SOIL IS SUITABLE FOR
- USE AS TRENCH BACKFILL BUT THE COMPACTION REQUIREMENTS WILL NOT BE THEREBY WAIVED.
- BACKFILL AND TRENCH RESTORATION REQUIREMENTS SHALL APPLY AS MINIMUM STANDARDS TO ALL UNDERGROUND FACILITIES INSTALLED BY OTHER FIRMS OR PUBLIC AGENCIES.

<u>RETAINING WALLS</u>

REINFORCED CONCRETE AND CONCRETE MASONRY UNIT RETAINING WALLS SHALL HAVE FOUNDATION AND REINFORCEMENT INSPECTED BY THE COUNTY ENGINEERING INSPECTOR AND ENGINEER OF RECORD PRIOR TO POURING THE FOUNDATION AND FORMING THE WALL. 2. SEGMENTAL BLOCK RETAINING WALLS SHALL HAVE FOUNDATION AND REINFORCEMENT INSPECTED BY THE COUNTY ENGINEERING INSPECTOR.

EXCAVATED MATERIAL SHALL BE PLACED IN THE FILL AREAS DESIGNATED OR SHALL BE HAULED AWAY FROM THE SITE TO A COUNTY APPROVED DISPOSAL SITE. WHERE FILL MATERIAL IS TO BE PLACED ON NATURAL GROUND, IS SHALL BE STRIPPED OF ALL VEGETATION. TO ACHIEVE A PROPER BOND WITH THE FILL MATERIAL, THE SURFACE OF THE GROUND SHALL BE SCARIFIED TO DEPTH OF 6" BEFORE FILL IS PLACED. WHERE NATURAL GROUND IS STEEPER THAN 5:1, IT SHALL BE BENCHED AND THE FILL KEYED IN TO ACHIEVE STABILITY. WHERE NEW FILL IS TO BE PLACED ON EXISTING FILL THE EXISTING FILL SHALL BE REMOVED UNTIL MATERIAL COMPACTED TO 90% RELATIVE COMPACTION IS EXPOSED. THEN THE NEW FILL MATERIAL SHALL BE PLACED AS PER THESE CONSTRUCTION NOTES. FILL MATERIAL SHALL BE PLACED IN UNIFORM LIFTS NOT EXCEEDING 6" IN UNCOMPACTED THICKNESS. BEFORE COMPACTION BEGINS, THE FILL SHALL BE BROUGHT TO A WATER CONTENT THAT WILL PERMIT PROPER COMPACTION BY EITHER 1) AERATING THE FILL IF IT IS TOO WET OR 2) MOISTENING THE FILL WITH WATER IF IT IS TOO DRY. EACH LIFT SHALL BE THOROUGHLY MIXED BEFORE COMPACTION TO ENSURE A UNIFORM DISTRIBUTION OF MOISTURE EXCESS CUT MATERIAL SHALL NOT BE SPREAD OR STOCKPILED ON THE SITE.

DEVELOPER SHALL REMOVE OR TRIM ALL TREES TO PROVIDE AN UNOBSTRUCTED FIFTEEN 3. SURPLUS EARTH FILL MATERIAL SHALL BE PLACED IN A SINGLE (8" MAX) THICK LAYER COMPACTED TO WITHSTAND WEATHERING IN THE AREA(S) DELINEATED ON THE PLAN. 4. NO ORGANIC MATERIAL SHALL BE PLACED IN ANY FILL. NO TREES SHALL BE REMOVED OUTSIDE OF CUT, FILL OR ROADWAY AREAS.

5. THE UPPER 6" OF SUBGRADE BELOW DRIVEWAY ACCESS ROAD OR PARKING AREA SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY. RESPONSIBILITY TO ENSURE THAT REMOVAL OF ADDITIONAL TREES HAS BEEN PERMITTED. 6. MAXIMUM CUT SLOPE SHALL BE 2 HORIZONTAL TO 1 VERTICAL. MAXIMUM FILL SLOPE SHALL BE a 2 HORIZONTAL TO 1 VERTICAL.

LOCATION	CUT (C.Y.)	FILL (C.Y.)	VERT. DEPTH
RESIDENCE	±7	±111	±0.3/±0.9
DRIVEWAY	±95	±38	±1.3/±0.8
POND	±54	±98	±1.5/±2
TOTAL	±156	±247	

NOTE: FILL VOLUMES INCLUDE 10% SHRINKAGE.

- EXCESS MATERIAL SHALL BE OFF HAULED TO A COUNTY APPROVED DUMP SITE. 7. NOTIFY SOILS ENGINEER TWO (2) DAYS PRIOR TO COMMENCEMENT OF ANY GRADING WORK TO
- COORDINATE THE WORK IN THE FIELD. 8. ALL MATERIALS FOR FILL SHOULD BE APPROVED BY THE SOILS ENGINEER BEFORE IT IS BROUGHT TO THE SITE.
- 9. THE UPPER 6" OF THE SUBGRADE SOIL SHALL BE SCARIFIED, MOISTURE CONDITIONED AND COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 95%
- 10. ALL AGGREGATE BASE MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% RELATIVE COMPACTION. 11. THE GEOTECHNICAL PLAN REVIEW LETTER MUST BE REVIEWED AND APPROVED BY THE COUNTY
- GEOLOGIST PRIOR TO FINAL APPROVAL BY THE COUNTY ENGINEER FOR BUILDING OCCUPANCY. 12. THE PROJECT GEOTECHNICAL ENGINEER SHALL PERFORM COMPACTION TESTING AND PRESENT THE RESULTS TO THE COUNTY ENGINEERING INSPECTOR PRIOR TO THE CONSTRUCTION OF ANY
- 13. GRADING WORK BETWEEN OCTOBER 15TH AND APRIL 15TH IS AT THE DISCRETION OF THE
- SANTA CLARA COUNTY GRADING OFFICIAL 14. TOTAL DISTURBED AREA FOR THE PROJECT 46,054 SF.
- 15. WDID NO.__ 16. THE INSPECTOR MAY VERIFY THAT A VALID NOTICE OF INTENT (NOI) HAS BEEN ISSUED BY THE STATE AND THAT A CURRENT AND UP TO DATE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS AVAILABLE ON SITE.

TREE PROTECTION

- 1. FOR ALL TREES TO BE RETAINED WITH A CANOPY IN THE DEVELOPMENT AREA OR INTERFACES WITH THE LIMITS OF GRADING FOR ALL PROPOSED DEVELOPMENT ON SITE, THE TREES SHALL BE PROTECTED BY THE PLACEMENT OF RIGID TREE PROTECTIVE FENCING, CONSISTENT WITH THE COUNTY INTEGRATED LANDSCAPE GUIDELINES, AND INCLUDE THE FOLLOWING: A. FENCING SHOULD BE PLACED ALONG THE OUTSIDE EDGE OF THE DRIPLINE OF THE TREE OR
- B. THE FENCING SHALL BE MAINTAINED THROUGHOUT THE SITE CONSTRUCTION PERIOD AND SHALL BE INSPECTED PERIODICALLY FOR DAMAGE AND PROPER FUNCTION.
- C. FENCING SHALL BE REPAIRED, AS NECESSARY, TO PROVIDE A PHYSICAL BARRIER FROM CONSTRUCTION ACTIVITIES. D. SIGNAGE STATING, "WARNING- THIS FENCING SHALL NOT BE REMOVED WITHOUT PERMISSION
- FROM THE SANTA CLARA COUNTY PLANNING OFFICE (408) 299-5770. COUNTY OF SANTA CLARA TREE PROTECTION MEASURES MAY BE FOUND AT http://www.sccplanning.gov." SHALL STORM DRAINAGE AND STORMWATER MANAGEMENT BE PLACED ON THE TREE PROTECTIVE FENCING UNTIL FINAL OCCUPANCY.

BE SECURELY IN PLACED AND INSPECTED BY THE LAND DEVELOPMENT ENGINEERING INSPECTOR.

ACCESS ROADS AND DRIVEWAYS

- 1. DRIVEWAY LOCATIONS SHALL BE AS SHOWN ON THE IMPROVEMENT PLANS WITH CENTERLINE STATIONING. THE MINIMUM CONCRETE THICKNESS SHALL BE 6 INCHES THROUGHOUT (WITH A
- MAXIMUM APPROACH SLOPE OF 1 1/4 INCHES PER FOOT). 2. ALL DRIVEWAY OR COMMON ACCESS ROAD SECTIONS IN EXCESS OF 15 LONGITUDINAL SLOPE MUST BE PAVED WITH A MINIMUM 2-INCH ASPHALT LIFT OR FULL DEPTH CONCRETE LIFT
- PRIOR TO ANY COMBUSTIBLE FRAMING. 3. THE OWNER AND PRIME CONTRACTOR ARE RESPONSIBLE FOR MAINTAINING PROJECT SITE ACCESS AND NEIGHBORHOOD ACCESS FOR EMERGENCY VEHICLES AND LOCAL RESIDENTS.
- 4. ROADWAYS DESIGNATED AS NOT COUNTY MAINTAINED ROADS AS SHOWN ON THE PLAN WILL NOT BE ELIGIBLE FOR COUNTY MAINTENANCE UNTIL THE ROADWAYS ARE IMPROVED (AT NO COST TO THE COUNTY) TO THE PUBLIC MAINTENANCE ROAD STANDARDS APPROVED BY THE BOARD OF SUPERVISORS AND IN EFFECT AT SUCH TIME THAT THE ROADWAYS ARE
- CONSIDERED FOR ACCEPTANCE INTO THE COUNTY'S ROAD SYSTEM. ALL WORK IN THE COUNTY ROAD RIGHT-OF-WAY REQUIRES AN ENCROACHMENT PERMIT FROM THE ROADS AND AIRPORTS DEPARTMENT. EACH INDIVIDUAL ACTIVITY REQUIRES A SEPARATE PERMIT - I.E. CABLE, ELECTRICAL, GAS, SEWER, WATER, RETAINING WALLS, DRIVEWAY APPROACHES, FENCES, LANDSCAPING, TREE REMOVAL, STORM DRAINAGE IMPROVEMENTS,

STREET LIGHTING

1. PACIFIC GAS & ELECTRIC ELECTROLIER SERVICE FEE SHALL BE PAID BY THE DEVELOPER AND/OR HIS AUTHORIZED REPRESENTATIVE.

SANITARY SEWER

APPLICANT: CHEN

- 1. THE SANITARY SEWER AND WATER UTILITIES SHOWN ON THESE PLANS ARE NOT PART OF THIS GRADING PERMIT AND ARE SHOWN FOR REFERENCE ONLY.
- 2. ALL MATERIALS AND METHODS OF CONSTRUCTION OF SANITARY SEWERS SHALL CONFORM TO THE SPECIFICATIONS OF THE JURISDICTION INVOLVED. INSPECTION OF SANITARY SEWER WORK SHALL BE DONE BY SAID JURISDICTION.

PORTLAND CEMENT CONCRETE

1. CONCRETE USED FOR STRUCTURAL PURPOSES SHALL BE CLASS "A" (6 SACK PER CUBIC YARD) AS SPECIFIED IN THE STATE STANDARD SPECIFICATIONS. CONCRETE PLACED MUST DEVELOP A MINIMUM STRENGTH FACTOR OF 2800 PSI IN A SEVEN-DAY PERIOD. THE CONCRETE MIX DESIGN SHALL BE UNDER THE CONTINUAL CONTROL OF THE COUNTY INSPECTOR.

AIR QUALITY, LANDSCAPING AND EROSION CONTROL

- WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY. COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD.
- 3. PAVE, APPLY WATER THREE TIMES DAILY, OR APPLY (NON-TOXIC) SOIL STABILIZERS ON ALL UNPAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES. 4. SWEEP DAILY (WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES. THE USE OF DRY POWDER SWEEPING IS PROHIBITED.
- 5. SWEEP STREETS DAILY (WITH WATER SWEEPERS) IF VISIBLE SOIL MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS. THE USE OF DRY POWDER SWEEPING IS PROHIBITED. 6. ALL CONSTRUCTION VEHICLES, EQUIPMENT AND DELIVERY TRUCKS SHALL HAVE A MAXIMUM **SURVEY MONUMENT PRESERVATION** IDLING TIME OF 5 MINUTES (AS REQUIRED BY THE CALIFORNIA AIRBORNE TOXIC CONTROL MEASURE TITLE 13, SECTION 2485 OF CALIFORNIA CODE OF REGULATIONS (CCR)). ENGINES SHALL BE SHUT OFF IF CONSTRUCTION REQUIRES LONGER IDLING TIME UNLESS NECESSARY FOR PROPER OPERATION OF THE VEHICLE.
- ALL VEHICLE SPEEDS ON UNPAVED ROADS SHALL BE LIMITED TO 15 MILES PER HOUR. ALL CONSTRUCTION EQUIPMENT SHALL BE MAINTAINED AND PROPERLY TUNED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. ALL EQUIPMENT SHALL BE CHECKED 3 BY A CERTIFIED MECHANIC AND DETERMINED TO BE RUNNING IN PROPER CONDITION PRIOR TO OPERATION.
- POST A SIGN THAT IS AT LEAST 32 SQUARE FEET MINIMUM 2 INCHES LETTER HEIGHT VISIBLE NEAR THE ENTRANCE OF CONSTRUCTION SITE THAT IDENTIFIES THE FOLLOWING REQUIREMENTS. OBTAIN ENCROACHMENT PERMIT FOR SIGN FROM ROADS DEPARTMENT OR OTHER APPLICABLE AGENCY IF REQUIRED.
- A. 15 MILES PER HOUR (MPH) SPEED LIMIT B. 5 MINUTES MAXIMUM IDLING TIME OF VEHICLES C. TELEPHONE NUMBER TO CONTACT THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT
- REGARDING DUST COMPLAINTS. NOTE PHONE NUMBER OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT AIR POLLUTION COMPLAIN HOTLINE OF 1-800-334-6367. 10. ALL FILL SLOPES SHALL BE COMPACTED AND LEFT IN A SMOOTH AND FIRM CONDITION
- CAPABLE OF WITHSTANDING WEATHERING. 11. ALL EXPOSED DISTURBED AREAS SHALL BE SEEDED WITH BROME SEED SPREAD AT THE RATE OF 5 LB. PER 1000 SQUARE FEET (OR APPROVED EQUAL). SEEDING AND WATERING
- SHALL BE MAINTAINED AS REQUIRED TO ENSURE GROWTH. 12. ALL DITCHES SHALL BE LINED PER COUNTY STANDARD SD8 13. ALL STORM DRAINAGE STRUCTURES SHALL BE INSTALLED WITH EFFECTIVE ENTRANCE &
- OUTFALL EROSION CONTROLS E.G. SACKED CONCRETE RIP-RAP. ENERGY DISSIPATERS SHALL BE INSTALLED AT ALL DITCH OUTFALLS. WHERE OUTFALLS ARE NOT INTO AN EXISTING CREEK OR WATER COURSE, RUNOFF SHALL BE RELEASED TO SHEET FLOW. 14. PRIOR TO GRADING COMPLETION AND RELEASE OF THE BOND, ALL GRADED AREAS SHALL BE RESEEDED IN CONFORMANCE WITH THE COUNTY GRADING ORDINANCE TO MINIMIZE THE

VISUAL IMPACTS OF THE GRADE SLOPES AND REDUCE THE POTENTIAL FOR EROSION OF THE

- SUBJECT SITE 15. PERMANENT LANDSCAPING SHOWN ON THE ATTACHED LANDSCAPE PLAN MUST BE INSTALLED AND FIELD APPROVED BY THE COUNTY PLANNING OFFICE PRIOR TO FINAL APPROVAL BY THE COUNTY ENGINEER, AND FINAL OCCUPANCY RELEASE BY THE BUILDING INSPECTION
- 16. THE OWNER SHALL PREPARE AND PRESENT A WINTERIZATION REPORT TO THE COUNTY
- INSPECTOR FOR REVIEW PRIOR TO OCTOBER 15TH OF EVERY YEAR. 17. THE OWNER, CONTRACTOR, AND ANY PERSON PERFORMING CONSTRUCTION ACTIVITIES SHALL INSTALL AND MAINTAIN CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPS) ON THE PROJECT SITE AND WITHIN THE SANTA CLARA COUNTY ROAD RIGHT-OF-WAY THROUGHOUT THE DURATION OF THE CONSTRUCTION AND UNTIL THE ESTABLISHMENT OF PERMANENT STABILIZATION AND SEDIMENT CONTROL TO PREVENT THE DISCHARGE OF POLLUTANTS INCLUDING SEDIMENT, CONSTRUCTION MATERIALS, EXCAVATED MATERIALS, AND WASTE INTO THE SANTA CLARA COUNTY RIGHT-OF-WAY, STORM SEWER WATERWAYS, ROADWAY
- INFRASTRUCTURE. BMPS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING; A. PREVENTION OF POLLUTANTS IN STORM WATER DISCHARGES FROM THE CONSTRUCTION SITE AND THE CONTRACTOR'S MATERIAL AND EQUIPMENT LAYDOWN / STAGING AREAS. B. PREVENTION OF TRACKING OF MUD, DIRT, AND CONSTRUCTION MATERIALS ONTO THE PUBLIC
- ROAD RIGHT-OF-WAY. C. PREVENTION OF DISCHARGE OF WATER RUN-OFF DURING DRY AND WET WEATHER CONDITIONS ONTO THE PUBLIC ROAD RIGHT-OF-WAY.
- ENSURE THAT ALL TEMPORARY CONSTRUCTION FACILITIES, INCLUDING BUT NOT LIMITED TO CONSTRUCTION MATERIALS, DELIVERIES, HAZARDOUS AND NON-HAZARDOUS MATERIAL STORAGE, EQUIPMENT, TOOLS, PORTABLE TOILETS, CONCRETE WASHOUT, GARBAGE CONTAINERS, LAYDOWN YARDS, SECONDARY CONTAINMENT AREAS, ETC. ARE LOCATED OUTSIDE THE SANTA CLARA COUNTY ROAD RIGHT-OF-WAY.
- 19. EROSION CONTROL PLAN IS A GUIDE AND SHALL BE AMENDED AS NECESSARY TO PREVENT EROSION AND ILLICIT DISCHARGES ON A YEAR AROUND BASIS, DEPENDING ON THE SEASON, WEATHER, AND FIELD CONDITIONS. EROSION CONTROL MEASURES IN ADDITION TO THOSE NOTED IN THE PERMITTED PLANS MAY BE NECESSARY. FAILURE TO INSTALL SITE SITE AND SITUATIONALY APPROPRIATE EROSION CONTROL MEASURES MAY RESULT IN VIOLATIONS, FINES, AND A STOPPAGE OF WORK.

- 2. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY, TREE PROTECTIVE FENCING SHALL 1. DEVELOPER IS RESPONSIBLE FOR ALL NECESSARY DRAINAGE FACILITIES WHETHER SHOWN ON THE PLANS OR NOT AND HE OR HIS SUCCESSOR PROPERTY OWNERS ARE RESPONSIBLE FOR THE ADEQUACY AND CONTINUED MAINTENANCE OF THESE FACILITIES IN A MANNER WHICH WILL PRECLUDE ANY HAZARD TO LIFE, HEALTH, OR DAMAGE TO ADJOINING PROPERTY, CONSISTENT WITH NPDES PERMIT CAS612008 / ORDER NO. R2-2009-0047 AND NPDES
 - PERMIT CASO00004/ ORDER NO. 2013-0001-DWQ. 2. DROP INLETS SHALL BE COUNTY STANDARD TYPE 5 UNLESS OTHERWISE NOTED ON THE PLANS. THE DEVELOPER'S ENGINEER SHALL BE RESPONSIBLE FOR THE PROPER LOCATION OF DROP INLETS. WHERE STREET PROFILE GRADE EXCEEDS 6% DROP INLETS SHALL BE SET AT 500 ANGLE CURB LINE TO ACCEPT WATER OR AS SHOWN ON THE PLANS.
 - 3. WHERE CULVERTS ARE INSTALLED THE DEVELOPER SHALL BE RESPONSIBLE FOR GRADING TH OUTLET DITCH TO DRAIN TO AN EXISTING SWALE OR TO AN OPEN AREA FOR SHEET FLOW. 4. UPON INSTALLATION OF DRIVEWAY CONNECTIONS, PROPERTY OWNERS SHALL PROVIDE FOR THE UNINTERRUPTED FLOW OF WATER IN ROADSIDE DITCHES.
 - 5. THE COUNTY SHALL INSPECT UNDERGROUND DRAINAGE IMPROVEMENTS AND STORMWATER MANAGEMENT FEATURES PRIOR TO BACKFILL.

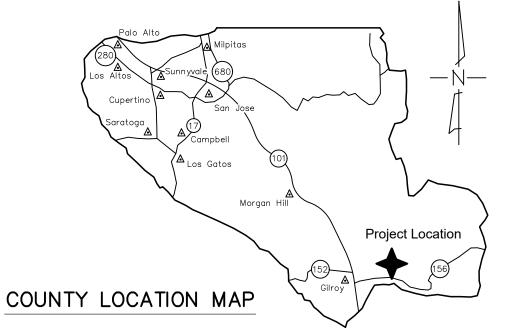
AS-BUILT PLANS STATEMENT

THIS IS A TRUE COPY OF THE AS-BUILT PLANS. THERE (___ WERE) (___ WERE NOT) MINOR FIELD CHANGES - MARKED WITH THE SYMBOL (^). THERE (___WERE) (___ WERE NOT) PLAN REVISIONS INDICATING SIGNIFICANT CHANGES REVIEWED BY THE COUNTY ENGINEER AND MARKED WITH THE SYMBOL△.

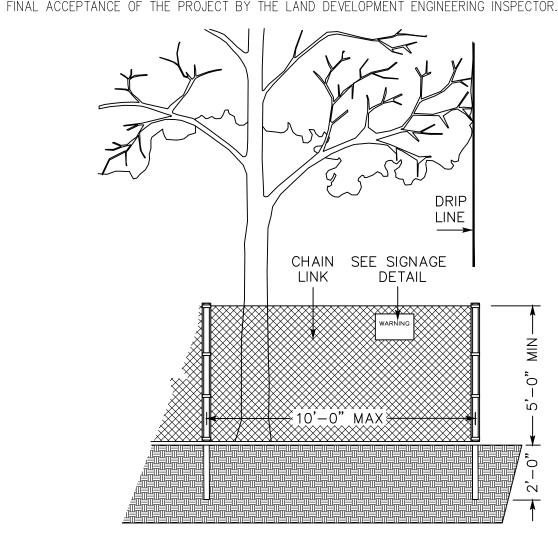
SIGNATURE _____ NOTE: THIS STATEMENT IS TO BE SIGNED BY THE PERSON AUTHORIZED BY THE COUNTY ENGINEER TO PFRFORM THE INSPECTION WORK. A REPRODUCIBLE COPYOF THE AS-BUILT PLANS MUST BE FURNISHED TO THE COUNTY ENGINEER AFTERCONSTRUCTION.

GEOTECHNICAL ENGINEER OBSERVATION

A CONSTRUCTION OBSERVATION LETTER FROM THE RESPONSIBLE GEOTECHNICAL ENGINEER AND ENGINEERING GEOLOGIST DETAILING CONSTRUCTION OBSERVATIONS AND CERTIFYING THAT THE WORK WAS DONE IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL AND GEOLOGIC REPORTS SHALL BE SUBMITTED PRIOR TO THE GRADING COMPLETION AND RELEASE OF THE BOND.



- THE LANDOWNER/CONTRACTOR MUST PROTECT AND ENSURE THE PERPETUATION OF SURVEY MONUMENTS AFFECTED BY CONSTRUCTION ACTIVITIES.
- 2. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE, STAKE, AND FLAG ALL PERMANENT SURVEY MONUMENTS OF RECORD AND ANY UNRECORDED MONUMENTS THAT ARE DISCOVERED THAT ARE WITHIN 50 FEET OF THE CONSTRUCTION ACTIVITY
- THE LANDOWNER, CONTRACTOR AND/OR ANY PERSON PERFORMING CONSTRUCTION ACTIVITIES THAT WILL OR MAY DISTURB AN EXISTING MONUMENT, CORNER STAKE, OR ANY OTHER PERMANENT SURVEYED MONUMENT SHALL CAUSE TO HAVE A LICENSED LAND SURVEYOR OR CIVIL ENGINEER, AUTHORIZED TO PRACTICE SURVEYING, ENSURE THAT A CORNER RECORD AND/OR RECORD OF SURVEY ARE FILED WITH THE COUNTY SURVEYOR'S OFFICE PRIOR TO DISTURBING SAID MONUMENTS AND RESET PERMANENT MONUMENT(S) TO PERPETUATE THE LOCATION IF ANY PERMANENT MONUMENT COULD BE DESTROYED DAMAGED. COVERED, DISTURBED, OR OTHERWISE OBLITERATED. THE LICENSED LAND SURVEYOR OR CIVIL ENGINEER SHALL FILE A CORNER RECORD OR RECORD OF SURVEY WITH COUNTY SURVEYOR PRIOR TO



EXISTING TREE PROTECTION DETAILS

- 18. THE OWNER, CONTRACTOR, AND ANY PERSON PERFORMING CONSTRUCTION ACTIVITIES SHALL 1. PRIOR TO THE COMMENCEMENT OF ANY GRADING, TREE PROTECTIVE FENCING SHALL BE IN PLACE IN ACCORDANCE WITH THE TREE PRESERVATION PLAN AND INSPECTED BY A CERTIFIED ARBORIST. THE ARBORIST SHALL MONITOR CONSTRUCTION ACTIVITY TO ENSURE THAT THE TREE PROTECTION MEASURES ARE IMPLEMENTED AND ADHERED TO DURING CONSTRUCTION. THIS CONDITION SHALL BE INCORPORATED INTO THE GRADING PLANS.
 - 2. FENCE SHALL BE MINIMUM 5 FEET TALL CONSTRUCTED OF STURDY MATERIAL (CHAIN-LINK OR EQUIVALENT STRENGTH/ DURABILITY).
 - FENCE SHALL BE SUPPORTED BY VERTICAL POSTS DRIVEN 2 FEET (MIN) INTO THE GROUND AND SPACED NOT MORE THAN 10 FEET APART.
 - TREE FENCING SHALL BE MAINTAINED THROUGHOUT THE SITE DURING THE CONSTRUCTION PERIOD, INSPECTED PERIODICALLY FOR DAMAGE AND PROPER FUNCTION, REPAIRED AS NECESSARY TO PROVIDE A PHYSICAL BARRIER FROM CONSTRUCTION ACTIVITIES, AND REMAIN IN PLACE UNTIL THE FINAL
 - 5. A SIGN THAT INCLUDES THE WORDS, "WARNING: THIS FENCE SHALL NOT BE REMOVED WITHOUT THE EXPRESSED PERMISSION OF THE SANTA CLARA COUNTY PLANNING OFFICE," SHALL BE SECURELY ATTACHED TO THE FENCE IN A VISUALLY PROMINENT LOCATION.

COUNTY OF SANTA CLARA DE	PT. OF ROADS AND AIRPORTS
ISSUED BY:	DATE:
ENCROACHMENT PERMIT NO.	

NO WORK SHALL BE DONE IN THE COUNTY'S RIGHT-OF-WAY WITHOUT AN ENCROACHMENT PERMIT, INCLUDING THE STAGING OF CONSTRUCTION MATERIAL AND THE PLACEMENT OF PORTABLE TOILETS.

ENGINEER'S STATEMENT

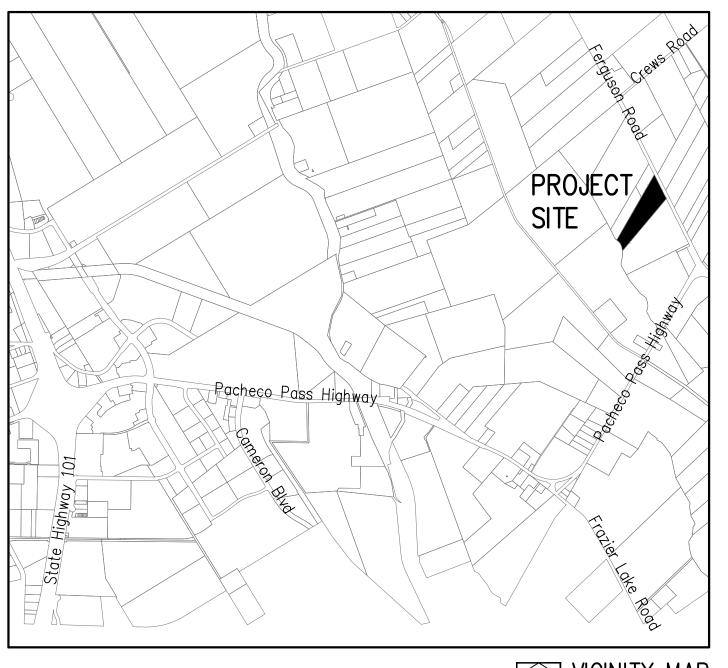
I HEARBY STATE THAT THESE PLANS ARE IN COMPLIANCE WITH ADOPTED COUNTY STANDARDS, THE APPROVED TENTATIVE MAR (OR PLAN) AND CONDITIONS OF APPROVAL PERTAINING THERETO DATED 07/08/2022 FILE(S) NO. PLN22-112 OROFESS/ON

INY MUST 7 R.C.E. NO. ₩ NO. 69278 P E CIVIL

COUNTY ENGINEER'S NOTE

ISSUANCE OF A PERMIT AUTHORIZING CONSTRUCTION DOES NOT RELEASE THE DEVELOPER, PERMITTEE OF ENGINEER FROM RESPONSIBILITY FOR THE CORRECTION OF ERRORS OR OMISSIONS CONTAINED IN THE PLANS. IF, DURING THE COURSE OF CONSTRUCTION, THE PUBLIC INTEREST REQUIRES A MODIFICATION OF (OR DEPARTURE FROM) THE SPECIFICATIONS OF THE PLANS, THE COUNTY SHALL HAVE THE AUTHORITY TO REQUIRE THE SUSPENSION OF WORK, AND THE NECESSARY MODIFICATION OR DEPARTURE AND TO SPECIFY THE MANNER IN WHICH THE SAME IS TO BE MADE.

DATE	
<u> </u>	DARRELL K.H. WONG
	R.C.E. NO. 63958 EXPIRES 9/30/24



SCOPE OF WORK

- THE DEVELOPER IS RESPONSIBLE FOR THE INSTALLATION OF THE WORK PROPOSED ON THE EROSION CONTROL PLAN. THE ENGINEER OF RECORD IS RESPONSIBLE FOR THE DESIGN OF THE EROSION CONTROL PLANS AND ANY MODIFICATIONS OF THE EROSION CONTROL PLANS TO PREVENT ILLICIT DISCHARGES FROM THE SITE DURING CONSTRUCTION.
- 2. A CONSTRUCTION OBSERVATION LETTER FROM THE RESPONSIBLE GEOTECHNICAL ENGINEER AND CERTIFIED ENGINEERING GEOLOGIST DETAILING CONSTRUCTION OBSERVATIONS AND CERTIFYING THAT THE WORK WAS DONE IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL AND GEOLOGICAL REPORTS SHALL BE SUBMITTED PRIOR TO GRADING COMPLETION AND RELEASE OF BOND.
- CLEAR AND GRUB BUILDING PAD AND DRIVEWAY.
- BUILDING PAD AND DRIVEWAY GRADING. CONSTRUCT DRIVEWAY
- CONSTRUCT BIORETENTION POND

SEPARATE PERMIT:

COUNTY OF SANTA CLARA

LAND DEVELOPMENT ENGINEERING & SURVEYING

PRELIMINARY PLANS

NOT FOR CONSTRUCTION

GRADING/DRAINAGE PERMIT NO. _

ISSUED BY: _____ DATE: ____

- INSTALL SEPTIC TANK AND LEACHFIELD WATER SYSTEM
- INSTALL WHARF FIRE HYDRANT
- 10. CONSTRUCT BARN 11. CONSTRUCT DRIVEWAY APPROACH

SHEET INDEX

1	COVER SHEET
2	SITE PLAN
3-4	GRADING & DRAINAGE PLAN
5	DETAILS, NOTES, & SPECIFICATIONS
6	STORMWATER CONTROL PLAN
7	EROSION CONTROL PLAN

LINUSION CONTINUL FLAIN BMP1&2 BEST MANAGEMENT PRACTICES

.	ENGINEER	₹'S	S NAME: _HANNA & BRUNETTI	
_				
	ADDRESS	S: _	7651 EIGLEBERRY STREET, GILROY CA 95020	
	PHONE N	- 10.	408 842-2173	
	FAX NO.		408 842-3662	

IMPROVEMENT PLANS

FOR THE ASSESSORY BUILDING ON THE LANDS OF CHEN

2740 FERGUSON ROAD, GILROY PARCEL 1 AS SHOWN UPON THAT CERTAIN PARCEL MAP FILED MAY 10, 1977 IN BOOK 395 OF MAPS, AT PAGE 45 SANTA CLARA COUNTY. CALIFORNIA

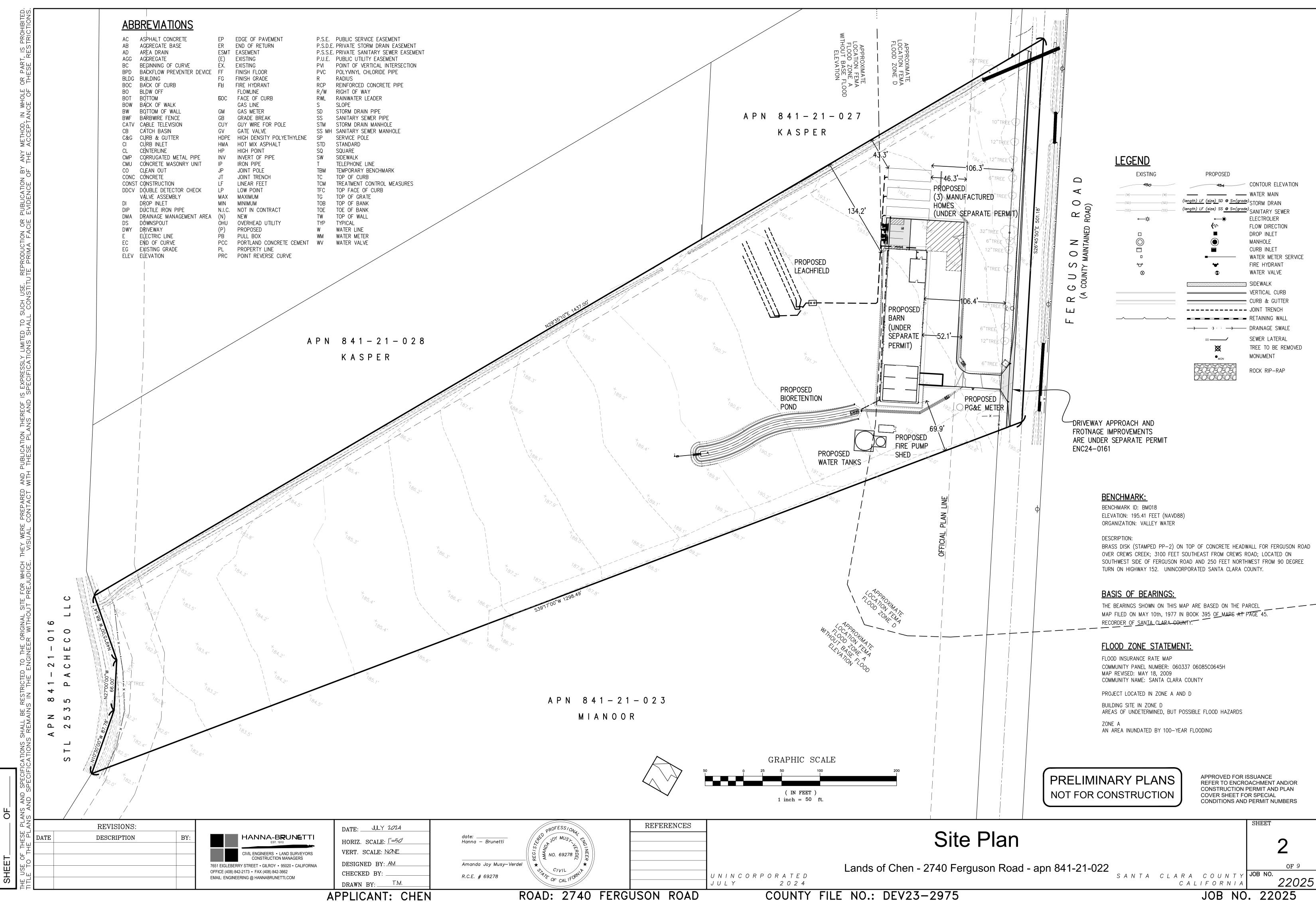
JULY 2024

Revision 1 Date 841-21-022 Date Revision 2 Revision 3 Date

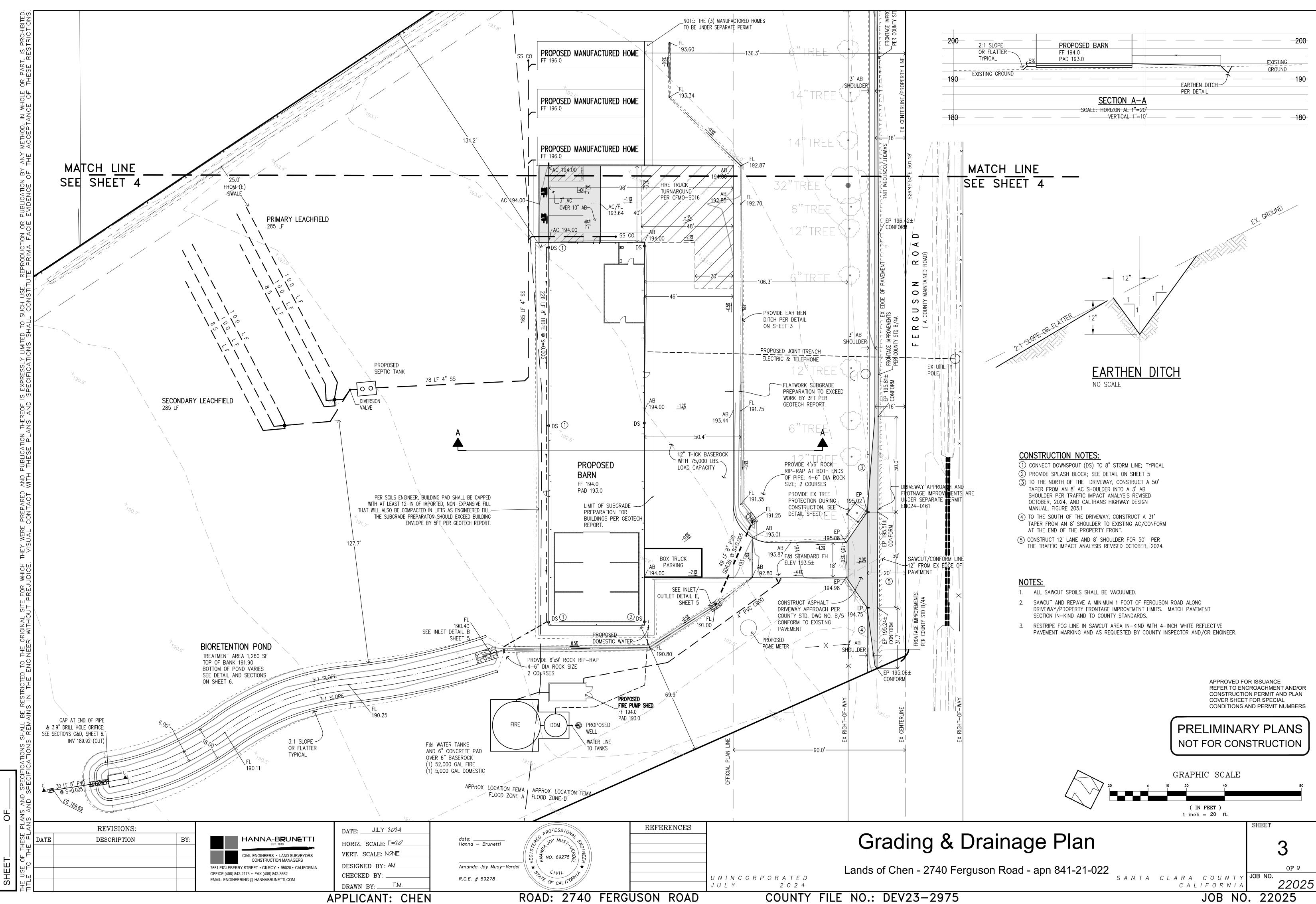
A.P.N.: 841-21-022

NO SCALE

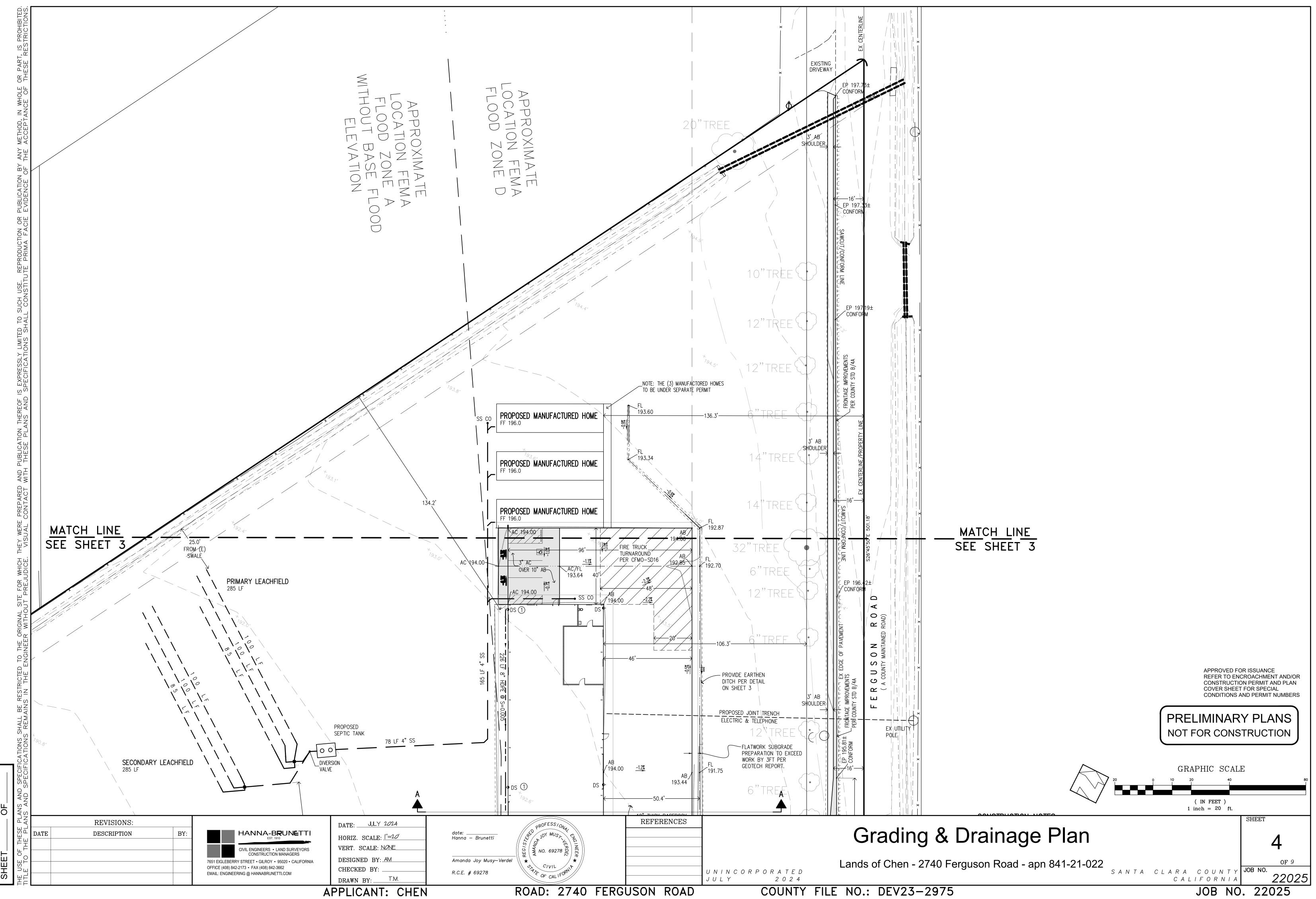
ROAD: 2740 FERGUSON ROAD COUNTY FILE NO.: DEV23-2975



COUNTY FILE NO.: DEV23-2975



JOB NO. 22025



//

PROJECT NOTES:

- THE LOCATION OF THE BUILDING PADS AND/OR FOUNDATIONS ARE TO BE ESTABLISHED BY A PERSON AUTHORIZED TO PRACTICE LAND SURVEYING. A LETTER SIGNED AND SEALED BY THAT AUTHORIZED PERSON, STATING THAT HE/SHE HAS LOCATED THE BUILDING CORNERS, AND THEIR LOCATIONS CONFORM TO COUNTY BUILDING SETBACK REQUIREMENTS PER THE APPROVED BUILDING PLANS IS REQUIRED TO BE SUBMITTED TO THE
- 'THIS PLAN AUTHORIZES THE REMOVAL OF ONLY THOSE TREES WITH TRUNK DIAMETERS GREATER THAN 12 INCHES MEASURED 4.5 FEET ABOVE GROUND WHICH ARE SHOWN TO BE REMOVED. ANY OTHER SUCH TREES ARE NOT TO BE REMOVED UNLESS AN AMENDED PLAN IS APPROVED OR A SEPARATE TREE REMOVAL PERMIT IS OBTAINED FROM THE PLANNING OFFICE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT REMOVAL OF ADDITIONAL TREES HAS BEEN PERMITTED.'
- 3. NO TREES ARE TO BE REMOVED
- 4. PRIOR TO GRADING COMPLETION AND RELEASE OF BOND, ALL GRADED AREAS SHALL BE RESEEDED IN CONFORMANCE WITH THE COUNTY GRADING ORDINANCE TO MINIMIZE THE VISUAL IMPACTS OF THE GRADED SLOPES AND REDUCE THE POTENTIAL FOR EROSION ON THE SUBJECT SITE.
- BOTH DRAINFIELDS MUST BE STAKED AND STRUNG PRIOR TO APPROVAL OF THE SEPTIC DESIGN TO VERIFY THAT THE PROPOSED SEPTIC DESIGN WILL ACTUALLY FIT INTO THE PROPOSED LEACHFIELD AREA, AND CONFORM TO ALL
- 6. IF ARCHAEOLOGICAL RESOURCES OR HUMAN REMAINS ARE DISCOVERED DURING CONSTRUCTION, WORK SHALL BE HALTED WITHIN 50 METERS (150 FEET) OF THE FIND UNTIL IT CAN BE EVALUATED BY A QUALIFIED ARCHAEOLOGIST. IF THE FIND IS DETERMINED TO BE SIGNIFICANT, APPROPIATE MITIGATION MEASURES SHALL BE FORMULATED AND IMPLEMENTED.
- 7. NOTIFY SOILS ENGINEER TWO (2) DAYS PRIOR TO COMMENCEMENT OF ANY GRADING WORK TO COORDINATE THE WORK IN THE FIELD.
- 8. ALL MATERIALS FOR FILL SHOULD BE APPROVED BY THE SOILS ENGINEER BEFORE IT IS BROUGHT TO THE SITE.
- 9. IN THE EVENT THAT ARCHEOLOGICAL FEATURES SHOULD BE DISCOVERED AT ANY TIME DURING THE GRADING. SCRAPING OR EXCAVATION, ALL WORK SHOULD BE HALTED IN THE VICINITY OF THE FIND AND AN ARCHAEOLOGIST SHOULD BE CONTACTED IMMEDIATELY TO EVALUATE THE DISCOVERED MATERIAL TO ASSESS ITS AREAL EXTENT, CONDITION, AND SCIENTIFIC SIGNIFICANCE. IF THE DISCOVERED MATERIAL IS DEEMED POTENTIALLY SIGNIFICANT, A QUALIFIED ARCHAEOLOGIST SHOULD MONITOR ANY SUBSEQUENT ACTIVITY IN THE PROXIMITY.
- 10. IN THE EVENT THAT HUMAN SKELETAL REMAINS ARE ENCOUNTERED, THE APPLICANT IS REQUIRED BY COUNTY ORDINANCE NO. B6-18 TO IMMEDIATELY NOTIFY THE COUNTY CORONER. UPON DETERMINATION BY THE COUNTY CORONER THAT THE REMAINS ARE NATIVE AMERICAN, THE CORONER SHALL CONTACT THE CALIFORNIA NATIVE AMERICAN HERITAGE COMMISSION, PURSUANT TO SUBDIVISION (c) OF SECTION 7050.5 OF THE HEALTH AND SAFETY CODE AND THE COUNTY COORDINATOR OF INDIAN AFFAIRS. NO FURTHER DISTURBANCE OF THE SITE MAY BE MADE EXCEPT AS AUTHORIZED BY THE COUNTY CHAPTER. IF ARTIFACTS ARE FOUND ON THE SITE A QUALIFIED ARCHAEOLOGIST SHALL BE CONTACTED ALONG WITH THE COUNTY PLANNING OFFICE. NO FURTHER DISTURBANCE OF THE ARTIFACTS MAY BE MADE EXCEPT AS AUTHORIZED BY THE COUNTY PLANNING OFFICE.
- 11. THESE PLANS ARE FOR THE WORK DESCRIBED IN THE SCOPE OF WORK ONLY. A SEPARATE PERMIT WILL BE REQUIRED FOR THE SEPTIC LINE CONSTRUCTION.
- 12. UPPER 12" OF THE SUBGRADE SOIL SHALL BE SCARIFIED, MOISTURE CONDITIONED AND COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 95%, PER THE GEOTECHNICAL REPORT.
- 13. ALL AGGREGATE BASE MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION.
- 14. ROADWAYS DESIGNATED AS NOT COUNTY MAINTAINED ROADS AS SHOWN ON THIS PLAN WILL NOT BE ELIGIBLE FOR COUNTY MAINTENANCE UNTIL THE ROADWAYS ARE IMPROVED (AT NO COST TO THE COUNTY) TO PUBLIC MAINTENANCE ROAD STANDARDS APPROVED BY THE BOARD OF SUPERVISORS AND IN EFFECT AT SUCH TIME THAT THE ROADWAYS ARE CONSIDERED FOR ACCEPTANCE INTO THE COUNTY'S ROAD SYSTEM.
- 15. AN APPROVED RESIDENTIAL FIRE SPRINKLER SYSTEM COMPLYING WITH FIRE MARSHAL STANDARD CFMO-SP6 IS REQUIRED TO BE INSTALLED THROUGHOUT THE STRUCTURE.
- 16. ALL NEW ON-SITE UTILITIES, MAINS AND SERVICES SHALL BE PLACED UNDERGROUND AND EXTENDED TO SERVE THE PROPOSED RESIDENCE.
- 17. A CONSTRUCTION OBSERVATION LETTER FROM THE RESPONSIBLE GEOTECHNICAL ENGINEER AND CERTIFIED ENGINEERING GEOLOGIST DETAILING CONSTRUCTION OBSERVATIONS AND CERTIFYING THAT THE WORK WAS DONE IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL AND GEOLOGICAL REPORTS SHALL BE SUBMITTED PRIOR TO GRADING COMPLETION AND RELEASE OF BOND
- 18. ALL ROOF RUNOFF SHALL BE DIRECTED TO LANDSCAPED OR NATURAL AREAS AWAY FROM BUILDING FOUNDATIONS, TO ALLOW FOR STORM WATER INFILTRATION INTO THE SOIL AND SHEET FLOW.

NOTE TO CONTRACTOR

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND OTHER SURVEY MARKERS DURING CONSTRUCTION. ALL SUCH MONUMENTS OR MARKER'S DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

WHERE THE FIRM OF HANNA & BRUNETTI DOES NOT PROVIDE CONSTRUCTION STAKES, SAID FIRM WILL ASSUME NO RESPONSIBILITY WHATSOEVER FOR IMPROVEMENTS CONSTRUCTED THEREFROM.

CONTRACTOR TO VERIFY:

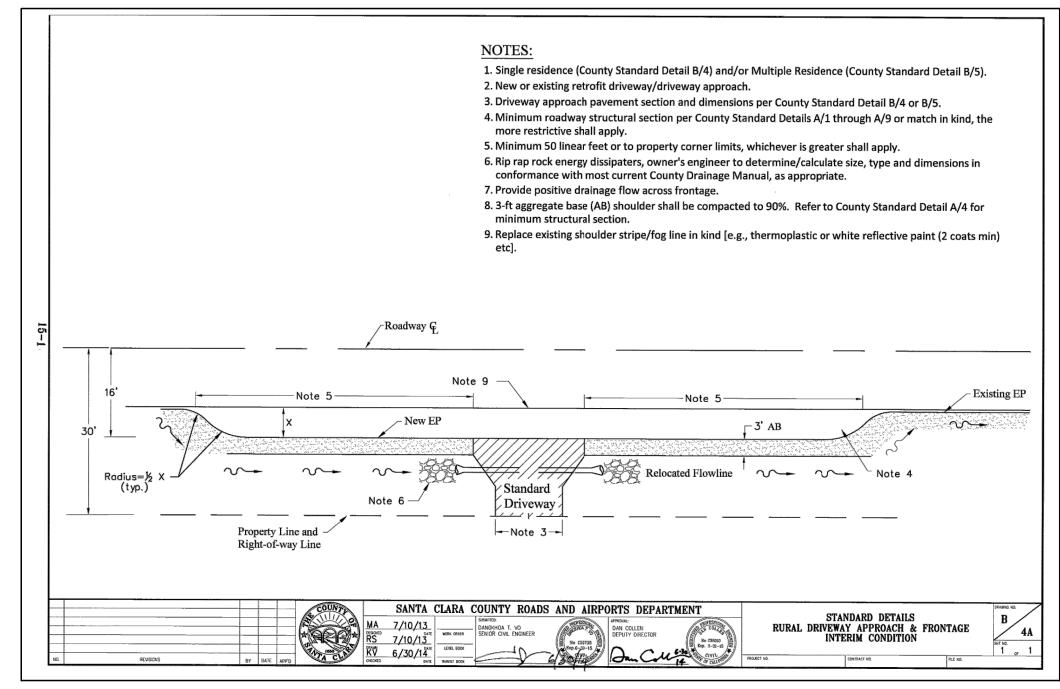
CONTRACTOR TO VERIFY PRIOR TO CONSTRUCTION OF BUILDING PAD, THE STRUCTURAL SECTION OF FOUNDATION TO DETERMINE BUILDING PAD ELEVATION.

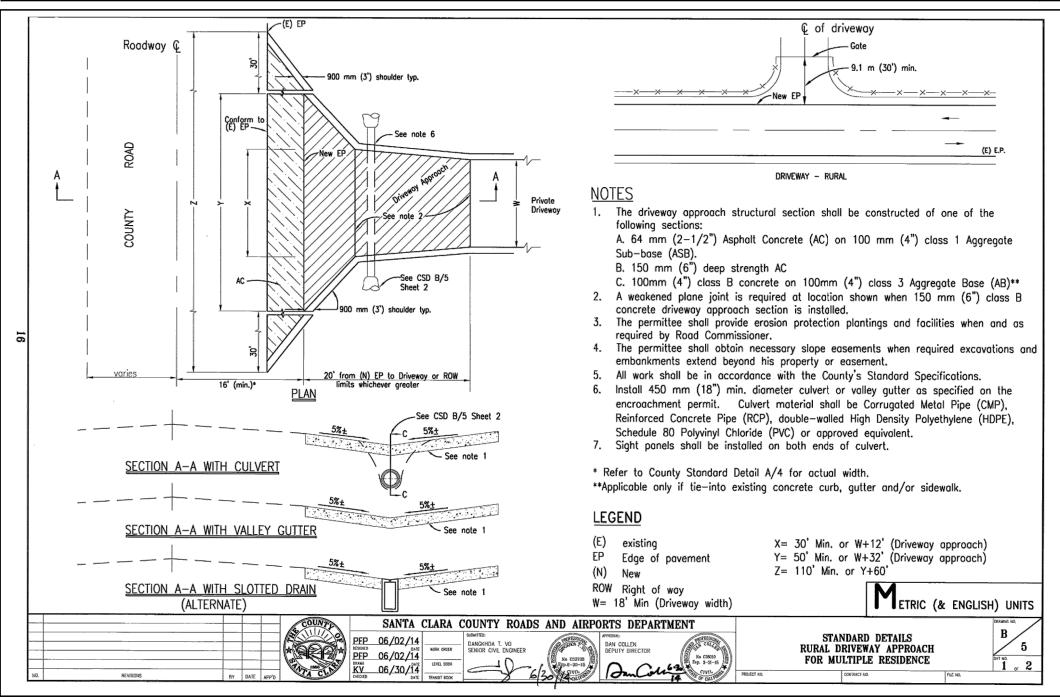
SEE SOILS REPORT AND/OR STRUCTURAL PLANS TO DETERMINE THE ELEVATION

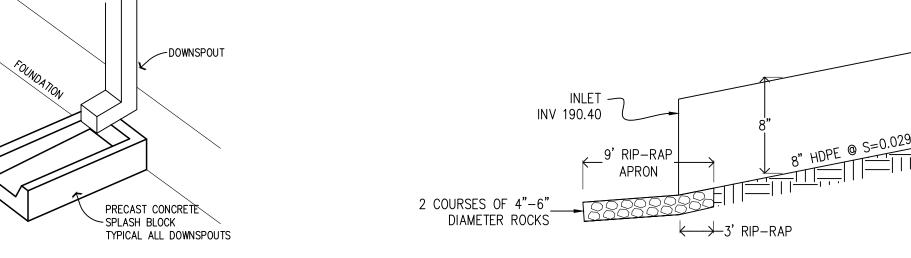
OF THE BUILDING FINISH FLOOR AND PAD.

THESE QUANTITIES DO NOT INCLUDE ANY SHRINKAGE, SUBSIDENCE OVER-EXCAVATION, OR ANY SPECIAL CONDITIONS OR REQUIREMENTS THAT MAY BE SPECIFIED IN THE GEOTECHNICAL INVESTIGATION REPORT. THESE QUANTITIES IN THE AREA FOR PERMIT PURPOSES ONLY. ALL CONTRACTORS BIDDING ON THIS PROJECT SHOULD MAKE THEIR OWN DETERMINATION OF EARTHWORK QUANTITIES PRIOR TO SUBMITTING A BID.

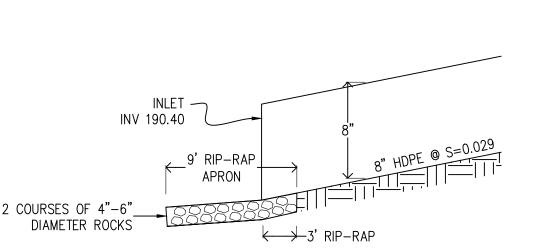
EXCESS MATERIAL SHALL BE OFF-HAULED. IF LOCATION IS WITHIN THE COUNTY A SEPERATED PERMIT SHALL BE REQUIRED.



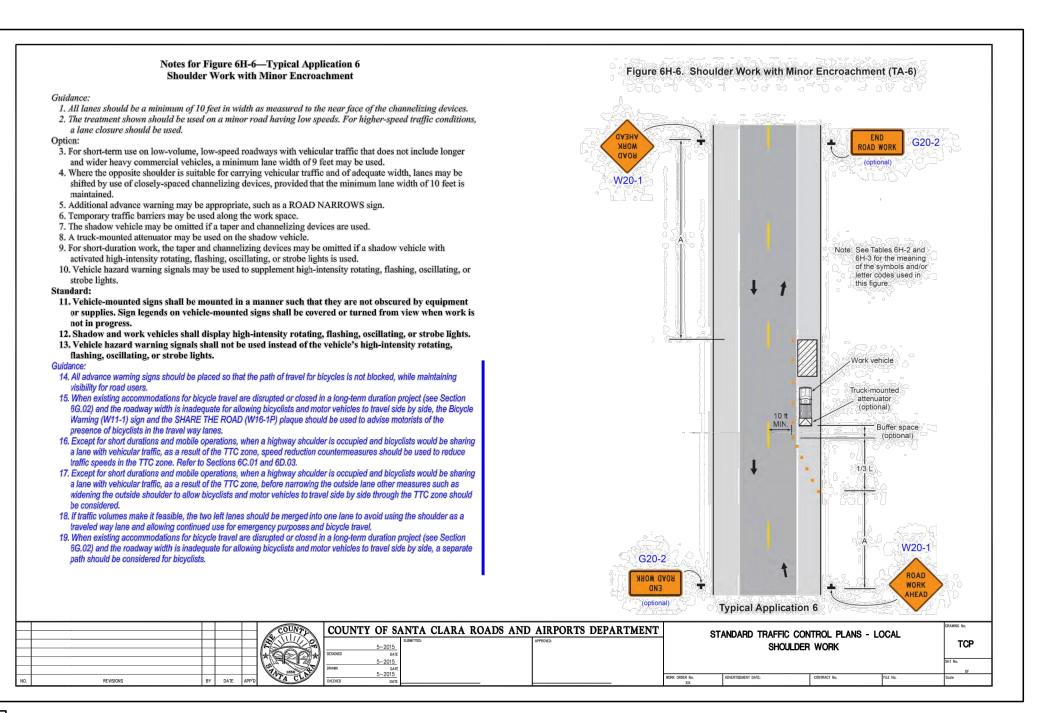


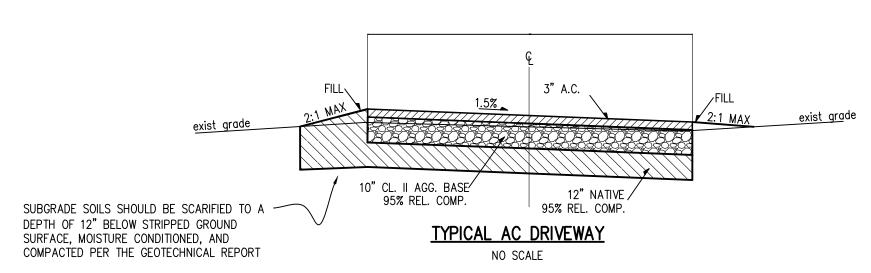


DOWNSPOUT WITH SPLASH BLOCK DETAIL

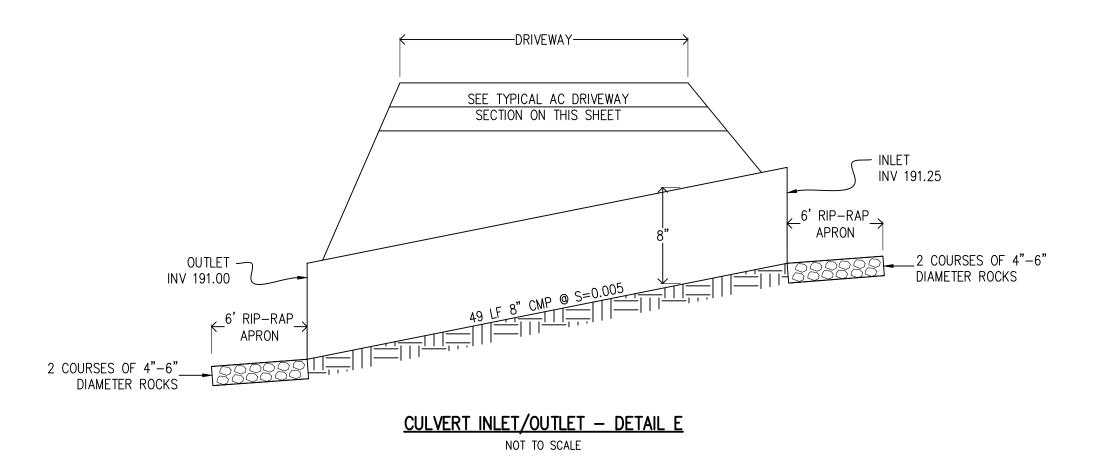


POND INLET - DETAIL B NOT TO SCALE





NOTE: DRIVEWAY WILL BE MADE OF AN "ALL-WEATHER" MATERIAL CAPABLE OF HOLDING 75,000 POUNDS AS SPECIFIED BY GEOTECHNICAL ENGINEER.



PRELIMINARY PLANS NOT FOR CONSTRUCTION

APPROVED FOR ISSUANCE REFER TO ENCROACHMENT AND/OR CONSTRUCTION PERMIT AND PLAN **COVER SHEET FOR SPECIAL** CONDITIONS AND PERMIT NUMBERS

REVISIONS: DESCRIPTION BY:

HANNA-B**R**UN**E**TTI CIVIL ENGINEERS • LAND SURVEYORS CONSTRUCTION MANAGERS 7651 EIGLEBERRY STREET • GILROY • 95020 • CALIFORNIA OFFICE (408) 842-2173 • FAX (408) 842-3662 EMAIL: ENGINEERING @ HANNABRUNETTI.COM

DATE: _____JULY 2024 HORIZ. SCALE: $||^{"}=2O'|$ VERT. SCALE: NONE DESIGNED BY: AM CHECKED BY DRAWN BY:

Hanna — Brunetti Amanda Joy Musy—Verdel R.C.E. # 69278

UNINCORPORATED 2024 JULYROAD: 2740 FERGUSON ROAD

REFERENCES

Details, Notes, & Specifications

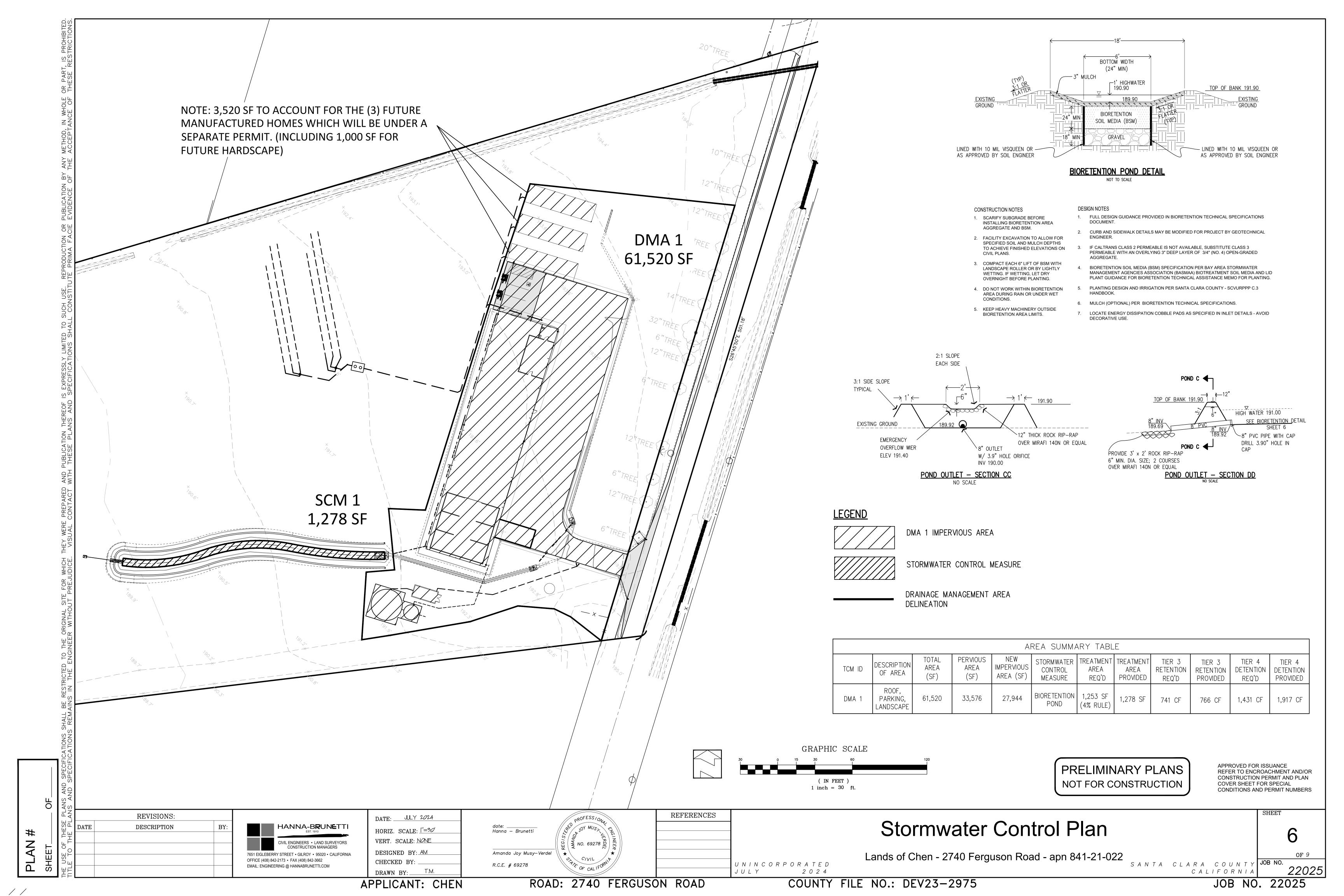
Lands of Chen - 2740 Ferguson Road - apn 841-21-022 SANTA CLARA COUNTY JOB NO. CALIFORNIA

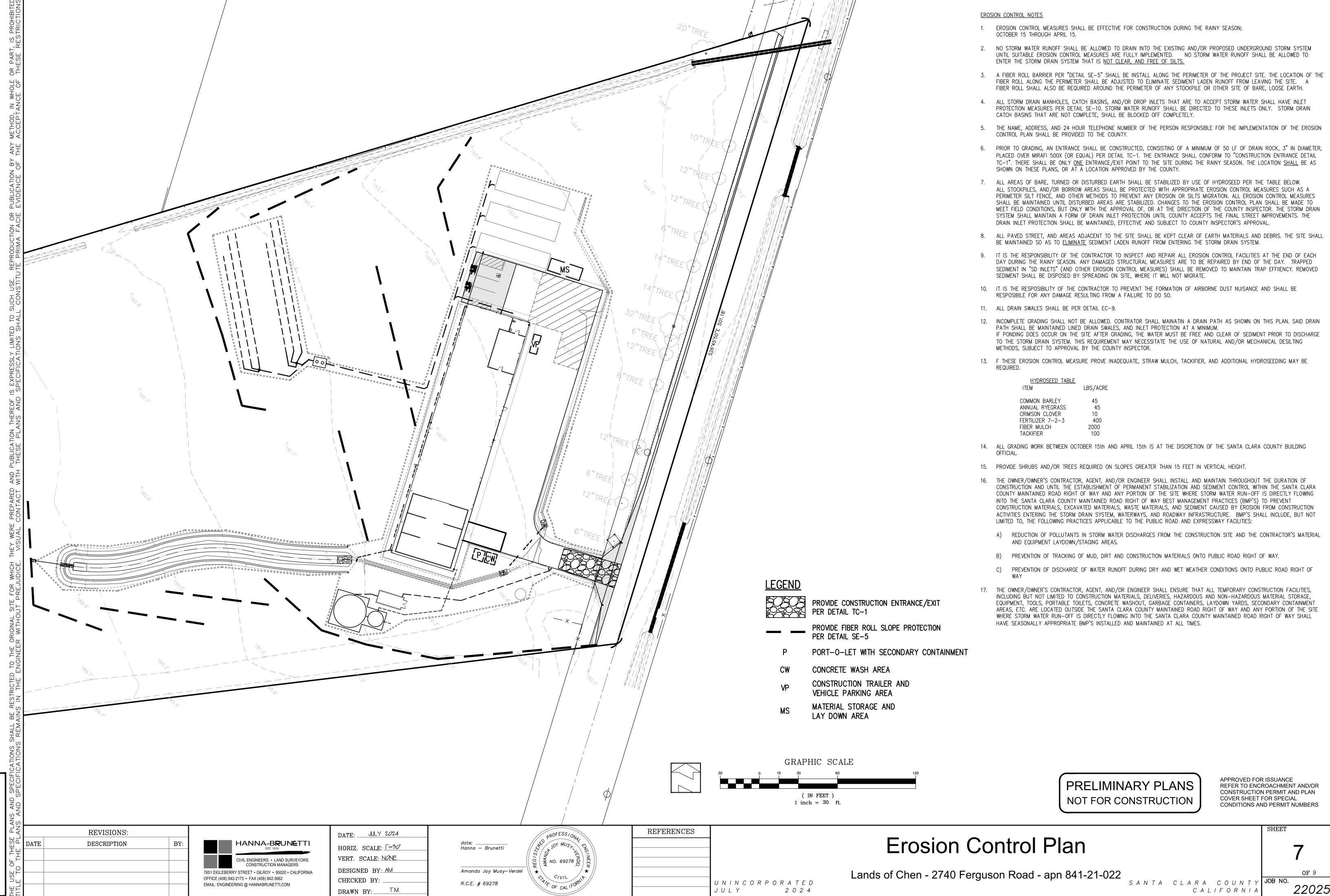
OF 9 22025

APPLICANT: CHEN

COUNTY FILE NO.: DEV23-2975

JOB NO. 22025



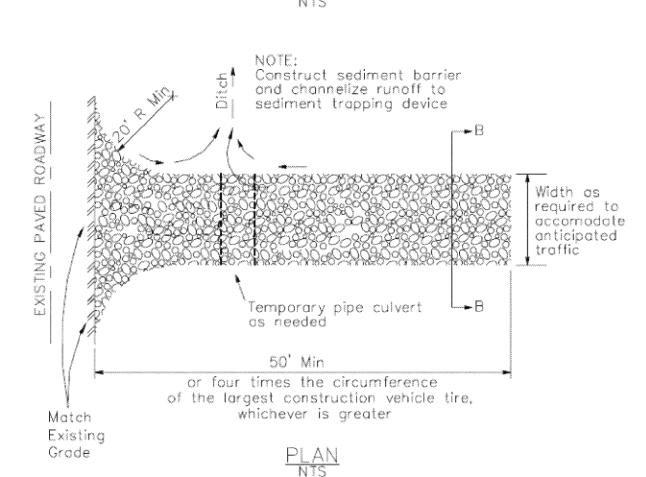


ROAD: 2740 FERGUSON ROAD

APPLICANT: CHEN

COUNTY FILE NO.: DEV23-2975

JOB NO. 22025



Velocity Dissipation Devices

CASQA Detail EC-10

PLAN VIEW

SECTION A-A

* Length per ABAG Design Standards

4d₀ (min)

–Key in 6"−9"

recommended for

entire perimeter

Pipe outlet to well

defined channel

- d=1.5 Mcx

Silt Fence

EFISINES Tamped backfill Nor cears a SIG (See note 1). Since drection Direction of Naw -Optional maintenera opening detail -(See nate 10) --STOKE Cross barrier-PL AN SHI FENCE -End datal

CROSS BARRIER DETAIL

SECTION C-C

CASQA Detail SE-1

NOTES

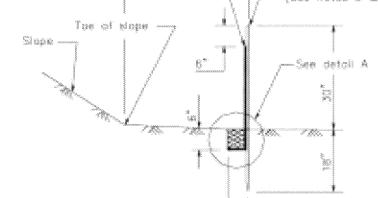
- 1. Construct the length of each reach so that the change in bose elevation along the reach does not exceed 1/3 the height of the linear borrier, in no case shall the reach length exceed 500
- 2. The last B'-O'' of fence shall be turned up slape.
- 3. Stake dimensions are nominal
- 4. Dimension may very to fit field condition.
- 5. Stakes shall be spoced at B'-0" maximum and shall be positioned on downstream side of fence.
- 6. Stokes to overlop and tence fabric to fold pround each stake one full turn. Secure fabric to stake with 4 staples.
- 7. Stokes shall be driven tightly together to prevent patential flow-through of sediment at joint. The tops of the stakes
- B. For end stake, fence tabric shall be folded around two stakes. one full turn and secured with 4 staples.
- Minimum 4 staples per stake. Dimensions shown are typical.
- 10. Onces borriers shall be a minimum of 1/3 and a maximum of 1/2 the
- 11. Maintenance openings shall be constructed in a manner to ensure
- sadiment remains behind sit fence. 12 Joining sections shall not be placed at sump locations.
- 13. Sandbag rows and layers shall be offset to eliminate gaza.

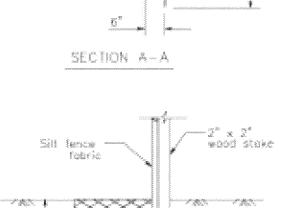
Silt Fence

CASQA Detail SE-1 (See note 4) LECE140 Tamped backfill Slope direction

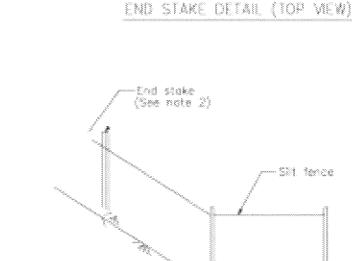
Fabric section A (See nates 6, 7 & 12)

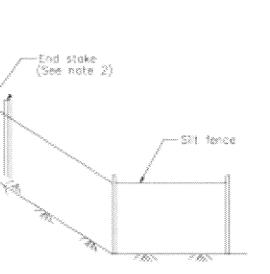
(See nate 8)





OLTAIL A

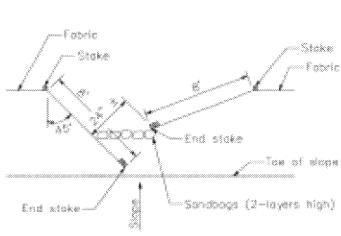




END DETAIL

JONING SECTION DETAIL (TOP VIEW)

- 7 x 2 acces alcae [See note 3]



(SEE NOTE 11)

STAPLE DETAIL

(SEE NOTE 9)

See nate 10

Direction of Now

OPTIONAL MAINTENANCE OPENING DETAIL

STANDARD BEST MANAGEMENT PRACTICE NOTES

- 1. Solid and Demolition Waste Management: Provide designated waste collection areas and containers on site away from streets, gutters, storm drains, and waterways, and arrange for regular disposal. Waste containers must be watertight and covered at all times except when waste is deposited. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C3) or
- 2. <u>Hazardous Waste Management</u>: Provide proper handling and disposal of hazardous wastes by a licensed hazardous waste material hauler. Hazardous wastes shall be stored and properly labeled in sealed containers constructed of suitable materials. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-5 to C-6) or latest.
- 3. Spill Prevention and Control: Provide proper storage areas for liquid and solid materials, including chemicals and hazardous substances, away from streets, gutters, storm drains, and waterways. Spill control materials must be kept on site where readily accessible. Spills must be cleaned up immediately and contaminated soil disposed properly. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-7 to C-8, C-13 to C-14) or latest.
- 4. <u>Vehicle and Construction Equipment Service and Storage</u>: An area shall be designated for the maintenance, where onsite maintenance is required, and storage of equipment that is protected from stormwater run-on and runoff. Measures shall be provided to capture any waste oils, lubricants, or other potential pollutants and these wastes shall be properly disposed of off site. Fueling and major maintenance/repair, and washing shall be conducted off-site whenever feasible. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C9) or latest.
- 5. <u>Material Delivery</u>, <u>Handling and Storage</u>: In general, materials should not be stockpiled on site. Where temporary stockpiles are necessary and approved by the County, they shall be covered with secured plastic sheeting or tarp and located in designated areas near construction entrances and away from drainage paths and waterways. Barriers shall be provided around storage areas where materials are potentially in contact with runoff. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-11 to C-12) or latest.
- 6. Handling and Disposal of Concrete and Cement: When concrete trucks and equipment are washed on-site, concrete wastewater shall be contained in designated containers or in a temporary lined and watertight pit where wasted concrete can harden for later removal. If possible have concrete contractor remove concrete wash water from site. In no case shall fresh concrete be washed into the road right-of-way. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-15 to C-16) or latest.
- . <u>Pavement Construction Management</u>: Prevent or reduce the discharge of pollutants from paving operations, using measures to prevent run-on and runoff pollution and properly disposing of wastes. Avoid paving in the wet season and reschedule paving when rain is in the forecast. Residue from saw-cutting shall be vacuumed for proper disposal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-17 to C-18) or latest.
- 3. Contaminated Soil and Water Management: Inspections to identify contaminated soils should occur prior to construction and at regular intervals during construction. Remediating contaminated soil should occur promptly after identification and be specific to the contaminant identified, which may include hazardous waste removal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-19 to C-20) or
- 2. Sanitary/Septic Water Management: Temporary sanitary facilities should be located away from drainage paths, waterways, and traffic areas. Only licensed sanitary and septic waste haulers should be used. Secondary containment should be provided for all sanitary facilities. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C-21) or
- 10. Inspection & Maintenance: Areas of material and equipment storage sites and temporary sanitary facilities must be inspected weekly. Problem areas shall be identified and appropriate additional and/or alternative control measures implemented immediately, within 24 hours of the problem being identified.

STANDARD EROSION CONTROL NOTES

1. Sediment Control Management:

<u>Tracking Prevention & Clean Up</u>: Activities shall be organized and measures taken as needed to prevent or minimize tracking of soil onto the public street system. A gravel or proprietary device construction entrance/exit is required for all sites. Clean up of tracked material shall be provided by means of a street sweeper prior to an approaching rain event, or at least once at the end of each workday that material is tracked, or, more frequently as determined by the County Inspector. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages B-31 to B-33) or latest.

Storm Drain Inlet and Catch Basin Inlet Protection: All inlets within the vicinity of the project and within the project limits shall be protected with gravel bags placed around inlets or other inlet protection. At locations where exposed soils are present, staked fiber roles or staked silt fences can be used. Inlet filters are not allowed due to clogging and subsequent flooding. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages B-49 to B-51) or latest.

Storm Water Runoff: No storm water runoff shall be allowed to drain in to the existing and/or proposed underground storm drain system or other above ground watercourses until appropriate erosion control measures are fully installed.

Dust Control: The contractor shall provide dust control in graded areas as required by providing wet suppression or chemical stabilization of exposed soils, providing for rapid clean up of sediments deposited on paved roads, furnishing construction road entrances and vehicle wash down areas, and limiting the amount of areas disturbed by clearing and earth moving operations by scheduling these activities in phases.

Stockpiling: Excavated soils shall not be placed in streets or on paved areas. Borrow and temporary stockpiles shall be protected with appropriate erosion control measures(tarps, straw bales, silt fences, ect.) to ensure silt does not leave the site or enter the storm drain system or neighboring watercourse.

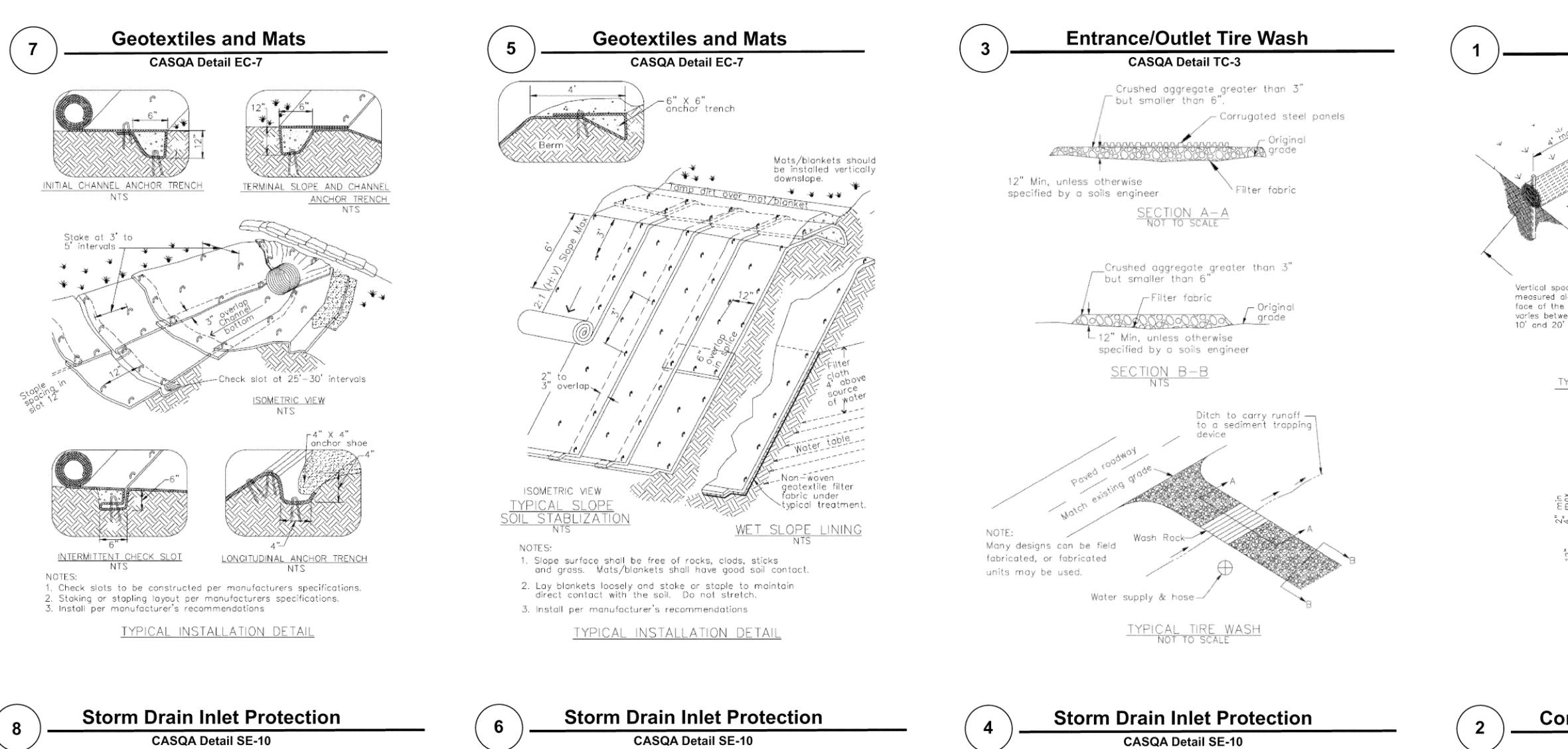
- 2. Erosion Control: During the rainy season, all disturbed areas must include an effective combination of erosion and sediment control. It is required that temporary erosion control measures are applied to all disturbed soil areas prior to a rain event. During the non-rainy season, erosion control measures must be applied sufficient to control wind erosion at the site.
- 3. <u>Inspection & Maintenance</u>: Disturbed areas of the Project's site, locations where vehicles enter or exit the site, and all erosion and sediment controls that are identified as part of the Erosion Control Plans must be inspected by the Contractor before, during, and after storm events, and at least weekly during seasonal wet periods. Problem areas shall be identified and appropriate additional and/ or alternative control measures implemented immediately, within 24 hours of the problem being identified.
- 4. Project Completion: Prior to project completion and signoff by the County Inspector, all disturbed areas shall be reseeded, planted, or landscaped to minimize the potential for erosion on the subject site.
- 5. It shall be the Owner's/Contractor's responsibility to maintain control of the entire construction operation and to keep the entire site in compliance with the erosion control plan.
- 6. Erosion and sediment control best management practices shall be operable year round or until vegetation is fully established on landscaped surfaces.

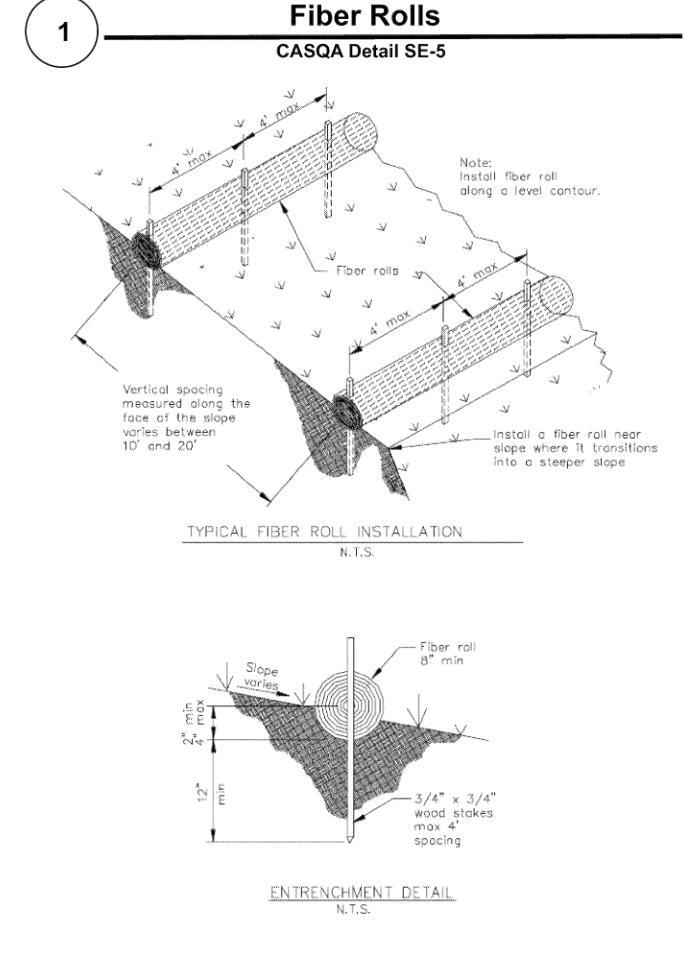
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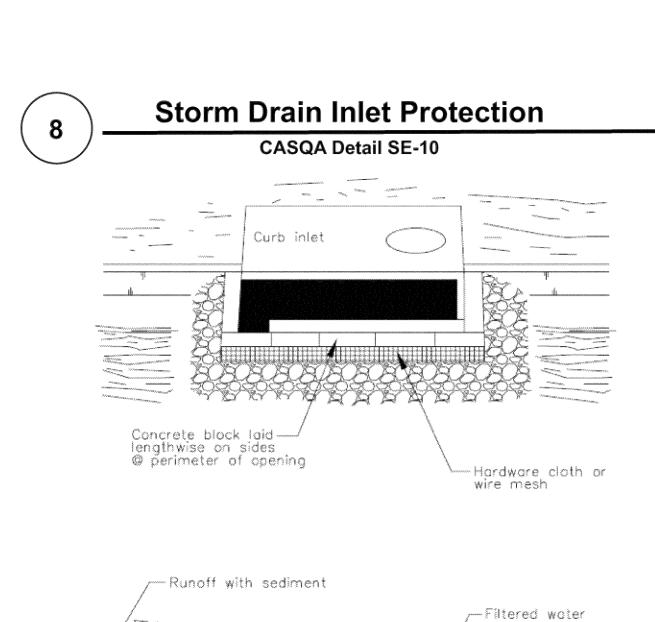
Information Project

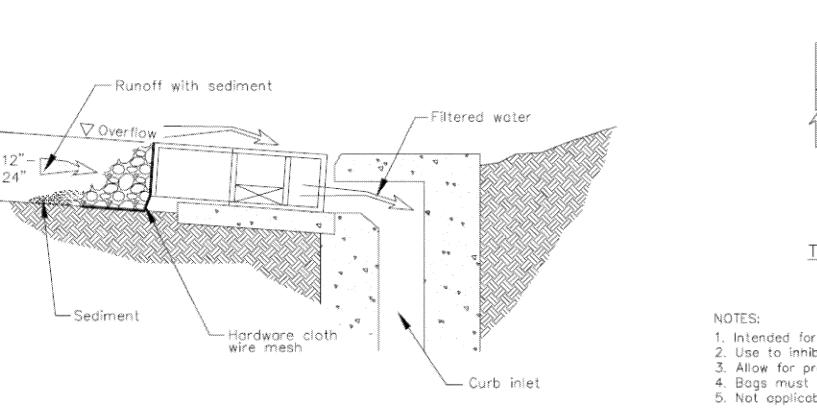
Source for Graphics: California Stormwater BMP Handbook, California Stormwater Quality Association, January 2003. Available from www.cabmphandbooks.com.





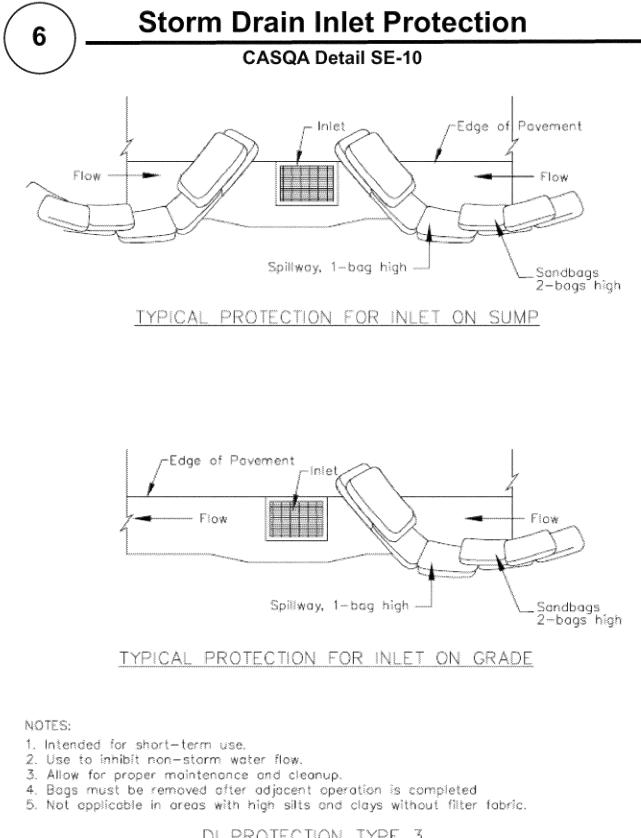


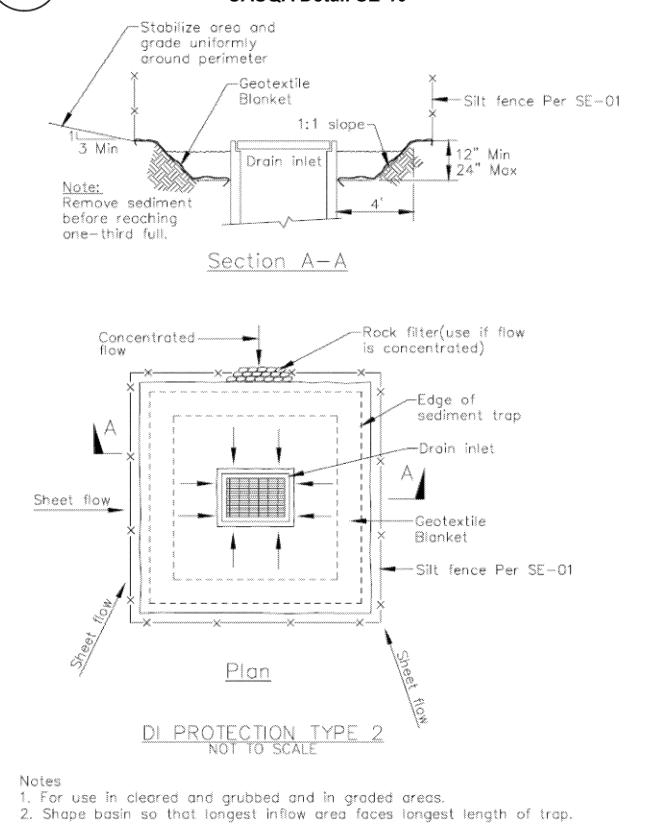




DI PROTECTION - TYPE 4
NOT TO SCALE

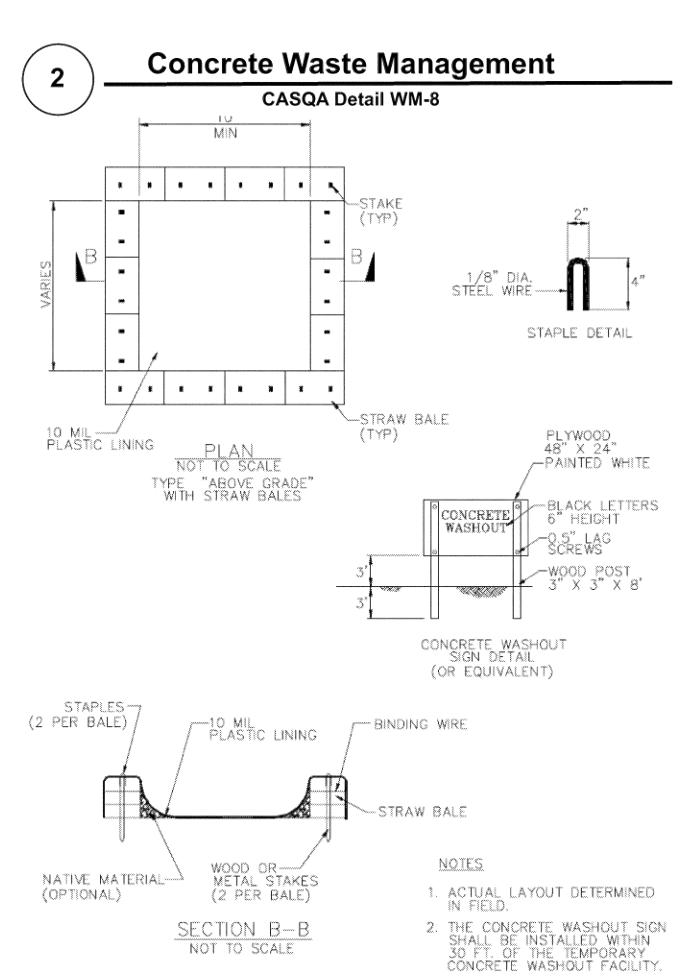
Source for Graphics: California Stormwater BMP Handbook, California Stormwater Quality Association, January 2003. Available from www.cabmphandbooks.com.

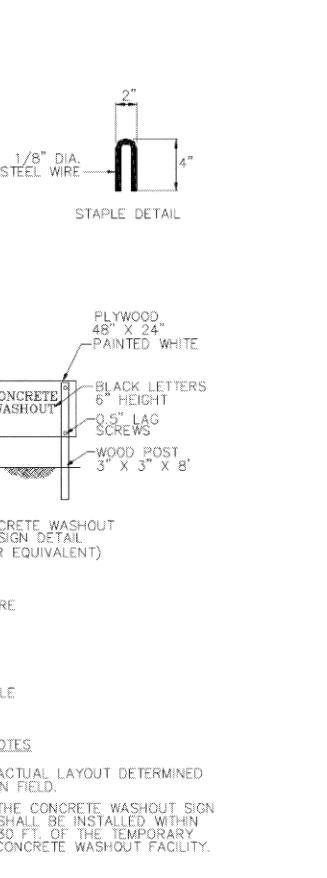




3. For concentrated flows, shape basin in 2:1 ratio with length oriented

towards direction of flow.



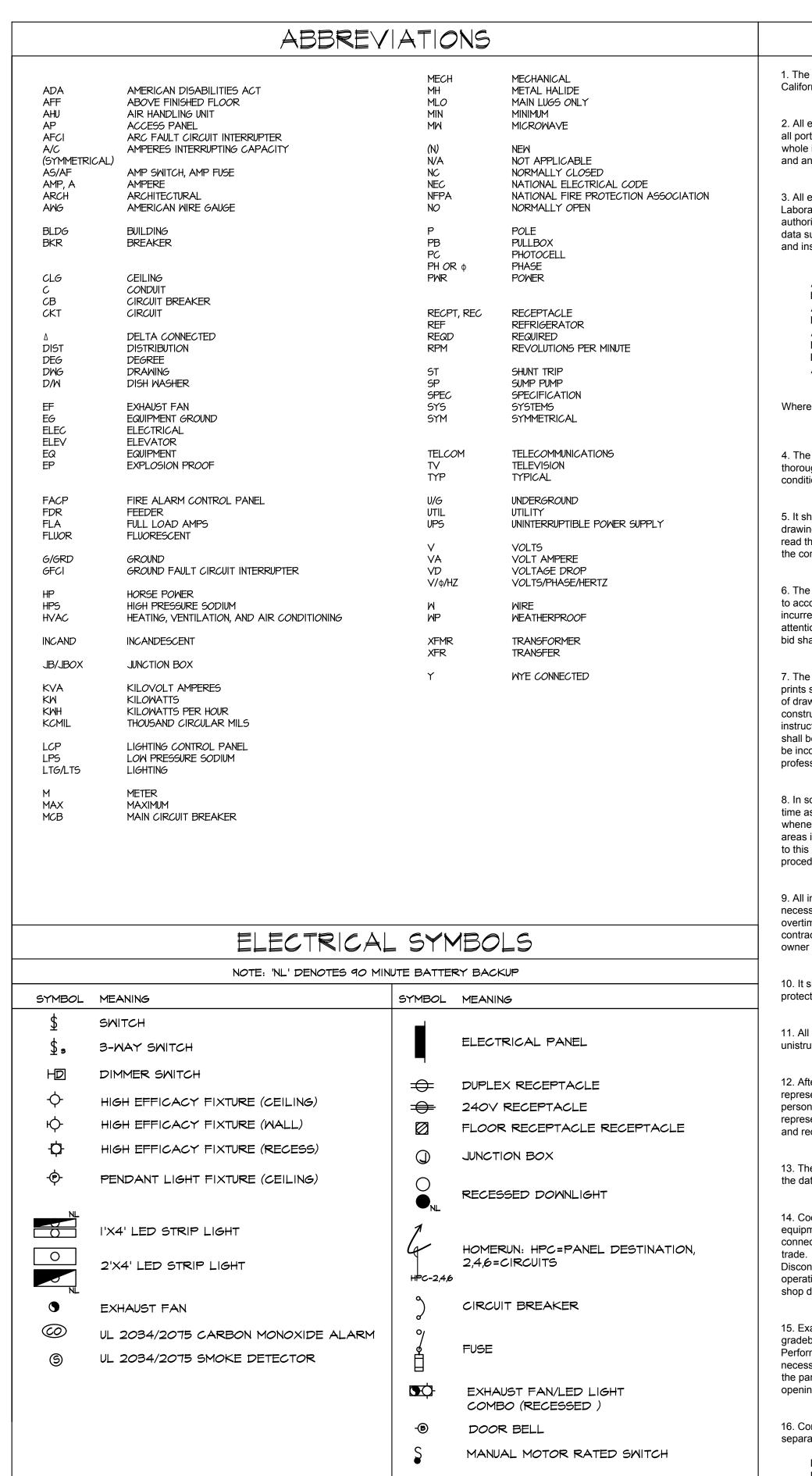


Best Management Practices and Erosion Control Details Sheet 2 County of Santa Clara



Information

Project



VACANCY SENSOR

GROUND

3 POLE DISCONNECT SMITCH

ELECTRICAL GENERAL NOTES

1. The entire installation shall comply with 2020 NEC, 2022 California Energy Code, 2022 California Electrical Code, and all applicable local codes and regulation.

2. All electrical prefabricated equipment shall be designed and constructed in such a manner that all portions, elements, sub-assemblies and/or parts of said equipment, and the equipment as a whole including its attachments, will resist a load which exceeds the force level used to restraint and anchor the equipment to the supporting structure.

3. All electrical materials and equipment shall be new and shall be listed by Underwriter's Laboratories (UL) and bear their label or listed or certified by a nationally recognized testing authority where UL does not have a listing. Custom made equipment shall have complete test data submitted by the manufacturer attesting to its safety. In addition, the materials, equipment, and installation shall comply with the requirements of the following:

American Society of Testing Materials (ASTM)
Insulated Power Cable Engineers Association (IPCEA)
American Standard Association (ASA)
National Fire Protection Association (NFPA)
American National Standard Institute (ANSI)
NEC National Electrical Code (NEC)
Institute of Electrical and Electronic Enginners(IEEE)
All local codes having jurisdiction

Where the codes have different levels of requirements, the most stringent rule shall apply.

4. The contractor shall visit the site including all areas indicated on the drawings. He shall thoroughly familiarize himself with the existing conditions and by submitting a bid, accepts the conditions under which he shall be required to perform his work.

5. It shall be contractor's responsibility to obtain a complete set of contract documents, addenda, drawings and specifications. He shall check the drawings of the other trades and shall carefully read the entire specifications and determine his responsibilities. Failure to do so shall not release the contractor from doing the work in complete accordance with the drawings and specifications.

6. The contractor shall coordinate his work with other trades at the site. Any costs to install work to accomplish said coordination which differs from the work as shown on the drawings shall be incurred by the contractor. Any discrepancies, ambiguities or conflicts shall be brought to the attention of the engineer during bid time for clarification. Any such conflicts not clarified prior to bid shall be subject to the interpretation of the engineer at no additional cost to the owner.

7. The contractor shall provide and keep up-to-date a complete record set of drawings. These prints shall be corrected accordingly and show every change from the original drawings. This set of drawing shall be kept on the job site and shall be used only as a record set. This shall not be construed as authorization for the contractor to make changes in the layout without definite instruction in each case. Upon completion of the work, a set of reproducible contract drawings shall be obtained from the engineer, and all changes as noted on the record set of drawings shall be incorporated on reproducible bond with black ink in a neat, legible, understandable and professional manner per Client's request.

8. In some instance, it may be necessary to defer work in certain areas and locations until such time as existing facilities can be temporarily or permanently rearranged by the owner. Therefore, whenever it becomes necessary for the contractor to perform work under this contract in existing areas in which the owner's work is being performed, the contractor shall advise the owner relative to this requirement and shall follow closely the directive issued by the engineer insofar as time and procedure are concerned.

9. All interruption of electrical power shall be kept to a minimum. However, when an interruption is necessary, the shutdown must be coordinated with the owner 7 days prior to the outage. Any overtime pay and work required to be accomplished on weekends shall be included in the contractor's bid. Work in existing switchboards or panelboards shall be coordinated with the owner prior to removing access panels or doors.

10. It shall be responsibility of the contractor to review and to coordinate with the mechanical, fire protection and plumbing drawings for duct lines and equipment.

11. All equipment mounted on roof for connection of HVAC equipment shall be mounted on unistrut stands utilizing approved pitch pockets, flashing, etc..

12. After all requirements of the specifications and/or the drawings have been fully completed, representatives of the owner will inspect the work. The contractor shall provide competent personnel to demonstrate the operation of any item or system to the full satisfactory of each representative. Final acceptance of the work will be made by the owner after receipt of approval and recommendation of acceptance from each representative.

13. The contractor shall furnish a one year written guarantee of materials and workmanship from the date of substantial completion.

14. Coordinate with other trades as to the exact location and configuration of their respective equipment, supply power and make connection to motors and equipment requiring electrical connections as indicated on the single line diagram, electrical drawings and drawings of other trade. Review the drawings of other trades for control diagram, size and locations of equipment. Disconnect switches, starters, wiring, controls and conduit for mechanical and plumbing operations shall be provided. The contractor shall be responsible for obtaining manufacturer's shop drawings prior to roughing in all conduit to this equipment.

15. Exact method and location of conduit penetration and openings in concrete or masonry walls, gradebeams, floors or structural steel members shall be as directed by the structural engineer. Perform coring, sawcutting, patching, and refinished of walls and surfaces wherever it is necessary to penetrate openings shall be sealed in an approved method to meet the fire rating of the particular wall, floor or ceiling. Exact method and locations of conduit penetrations and openings in concrete walls or floors shall be for UL approved systems.

16. Connections to vibrating equipment, mechanical and plumbing equipment and seismic separations:

Liquid-tight conduit in all locations

Maximum length of flexible conduit runs shall be 6'-0" u.O.N.

17. Equipment outlets, lighting fixtures, conduit, wire and connection methods in HVAC

17. Equipment outlets, lighting fixtures, conduit, wire and connection methods in HVAC air-plenums shall be approved for use in plenums and shall conform to 2022 CEC.

18. Conduit shall not be installed in any floor slab. Conduit shall be installed concealed in the ceiling space, concealed in walls, or below slab on grade. Unless otherwise noted.

19. Whenever a discrepancy in quantity or size of conduit, wire, equipment devices, circuit breakers, ground fault protection system, etc., (all materials), arises on the drawings or specifications, the contractor shall be responsible for providing and installing all materials and services required by the strictest conditions noted on the drawings or in the specifications to ensure complete and operable systems as required by the owner and engineer.

20. It shall be contractor's responsibility to verify type of ceiling systems and to furnish approved lighting fixtures of the type required for mounting in subject ceiling. Where fixtures are recessed in plaster or drywall ceilings, they shall be complete with necessary mounting hardware and plaster frames.

21. All recessed lighting fixtures, speakers, receptacles, switches, etc., mounted in the fire rated ceilings or walls shall be enclosed with an approved enclosure carrying the same fire rating as the ceiling or wall by this contractor.

22. Utility penetrations of any kind in fire and smoke partitions and ceiling assemblies, shall be firestopped and sealed with an approved material securely installed.

Utility and electrical outlets or boxes shall be securely fastened to the stud of framing of the wall, partition or ceiling assembly. The opening in the gypsum board facing shall be cut so that the clearance between the box and the gypsum board does not exceed 1/8 inch. In smoke walls or partitions, the 1/8 inch clearance shall be filled with an approved fire-rated sealant.

23. Architectural reflected ceiling plans indicating the location of lighting fixtures shall take precedence over the locations of same shown on the electrical drawings. Install the lighting fixtures in any given area to agree with the reflected ceiling plans. Discrepancies shall be brought to the attention of the architect.

24. The exact locations and mounting heights of lighting fixtures located in mechanical equipment spaces and storage shall be coordinated in the field before installation to avoid interferences with ducts, piping and other mechanical equipment and all mounting hardware shall be included in base bid. When locations and mounting heights are determined, obtain approval from the engineer prior to installation.

25. Maximum number of conductors in outlet or junction boxes shall conform to 2022 CEC.

26. The exact locations of all electrical devices and equipment shall be coordinated with the architectural elevations, details or sections prior to installation. All electrical devices and equipment shall be recessed in walls, unless otherwise noted. Outlets not indicated on architectural elevations shall be coordinated with the architect prior to rough-in, unless otherwise noted.

27. Review architectural elevations of casework. Outlets mounted above or below, or adjacent to casework shall be coordinated with the architectural drawings, prior to final rough-in. Electrical drawings shall govern number and type of outlets. However, locations shall be as indicated on architectural elevations. Provide conduit, wires and outlets for work required in casework installations. Reference architectural details for method of routing conduit within casework construction. Provide box extensions through all casework. Finish flush with face of splash, cabinets, etc. Mounting heights of all devices and equipment are from finished floor to center of devices and equipment, unless otherwise noted. Boxes installed in locations not approved by the architect shall be relocated as directed by the architect at no additional cost to the owner.

28. Drawings are diagrammatic only and do not show special conduit routing or lengths required for a complete installation. Routing of raceways shall be at the option of the contractor but shall be in strict compliance with structural requirements and specifications, unless otherwise noted and shall be coordinated with other trades. Do not scale the electrical drawings for locations of any electrical architectural, structural, civil, or mechanical items or features. Refer to architectural and structural dimensional drawings.

29. The equipment grounding conductor runs shall be installed and run continuous from panel to last outlets. This wire shall be pigtailed in each outlet for connection to box and device so that if device is removed, ground will not be interrupted. All equipment grounding conductors shall be insulated green or bare conductors. Alternate methods of identification shall be used.

30. For small ac motors not having built-in thermal overload protection, provide manual motor starters with overload heater elements sized to the nameplate current rating of the motor. Small ac motors with built-in thermal overload protection, provide a horse power rated toggle type disconnect switch.

31. Boxes shall be sized for the number and sizes of conductors and conduit entering the box and equipped with plaster extension rings where required.

32. Lamps: all fixtures shall be high efficacy per CEnC 2022 Table 150.0-A.

33. Where lighting fixtures require the use of acrylic plastic lenses, they shall be 100 percent virgin acrylic thermoplastic, not less than 0.125" thick with an unpenetrated depth of not less than 0.045" equal to ksh-k12, unless otherwise noted.

34. Provide sound insulation at all conduit penetrations at sound barrier rated walls. Typical unless otherwise noted.

35. Where outlets occur at tackable wall panels or other wall finishes, provide extension rings as required so that no space will exist between device plate and backbox, per NEC 370.20, typical. See architectural elevations for wall finishes and locations.

36. All conductors for branch circuits shall be THHN/THWN copper AWG or KCML per NEC table 310.16. Grounding shall be "Green wire" or bare copper wire sizes per NEC table 250.122.

37. Grounding System:
The grounding system shall be derived per NEC 250.50:

A) 10' of motor underground water pipe.

A) 10' of meter underground water pipe
B) Meter frame of building or structure where effectively grounded
C) An electrode encased by at least 2" of concrete located within or near the bottom of a concrete foundation that is in direct contact with the earth. 20' zinc galvanized or other electrically conductive steel reinforcing bar or rod of not less than 1/2" in diameter or bare copper conductor not smaller than #4AWG.

38. Listed or labeled equipment shall be installed and used in accordance with any instructions included in the listing or labeling. Section 110.3(b)

39. Contractor must verify locations of all equipment and points of connection and coordinate with construction manager, architect, civil engineer, landscape architect, and utility consultants prior to start of construction. No compensation will be made for relocation of equipment and associated

40. This document is not for bid or construction until the plan has been reviewed and approved by all authorities having jurisdiction and the permit is obtained. No compensation will be made for additional work due to the violation of this requirement.

		ECTRICAL SHEET INDEX
NO.	SHEET	DESCRIPTION
_	E-I.0	ELECTRICAL GENERAL NOTES, SYMBOLS, & SHEET INDEX
2	E-I.I	ELECTRICAL SINGLE LINE DIAGRAMS & LOAD CALCULATIONS
В	E-I.2	ELECTRICAL PANEL SCHEDULES
4	E-2.0	ELECTRICAL UNIT PLANS
5	E-3.0	ELECTRICAL SITE PLAN

NO. DATE DESCRIPTION





CHEN FARM

FERGUSC ROY, CA

ELECTRICAL GENERAL NOTES, SYMBOLS, & SHEET INDEX

DRAWN
GMEP
CHECKED
GMEP
DATE
08/04/23
SCALE
AS NOTED
JOB NO.
23-598

F-1.0

ELECT	RICAL FE	EDER SCHEDULE-AL
		THREE WIRE + GROUND
OVERCURRENT DEVICE SETTINGS	FEEDER IDENTIFIER	ALUMINUM INSULATION PER SPECIFICATIONS
20	3WG20	(3#10 + 1#10G) 3/4"C.
30	3WG30	(3#8 + 1#8G) 3/4"C.
40	3WG40	(3#6 + 1#8G) 3/4"C.
50	3WG50	(3#4 + 1#8G) 1"C.
65	3WG65	(3#3 + 1#6G) 1-1/4"C.
75	3WG75	(3#2 + 1#6G) 1-1/4"C.
90	3WG90	(3#2 + 1#6G) 1-1/4"C.
100	3WG100	(3#1/0 + 1#6G) 1-1/2"C.
120	3WG120	(3#1/0 + 1#4G) 1-1/2"C.
125	3WG125	(3#2/0 + 1#4G) 2"C.
150	3WG150	(3#3/0 + 1#4G) 2"C.
175	3WG175	(3#4/0 + 1#4G) 2"C.
200	3WG200	(3#250KCMIL + 1#2G) 2-1/2"C.
250	3WG250	(3#350KCMIL + 1#2G) 3"C.
300	3WG300	(3#500KCMIL + 1#1G) 3"C.
350	3WG350	2[(3#4/0 + 1#1G) 2"C.]
400	3WG400	2[(3#250KCMIL + 1#1/0G) 2-1/2"C.]

SINGLE-LINE DIAGRAM KEY NOTES

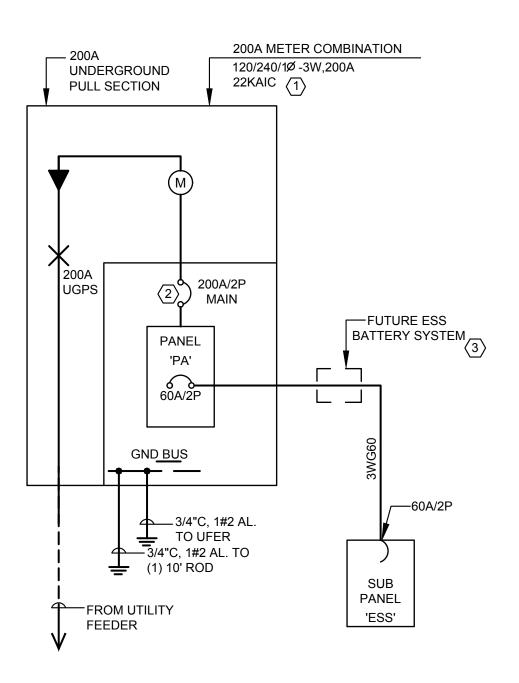
- (1) VERIFY WITH SERVICE PLANNER FOR AIC RATING AND ELECTRICAL INFORMATION BEFORE ISSUING ANY BID. NOTIFY ENGINEER IMMEDIATELY IF ANY MAJOR DISCREPANCIES OCCUR.
- 2 PROVIDE SURGE PROTECTIVE DEVICE.
- (3) THE FUTURE ESS SYSTEM IS COMPOSED OF AN 3KW INVERTER AND BATTERY, WHICH MUST SUPPORT 90 MINUTES AT MINIMUM.
- 4 DENOTES 200AS/125AF/3P DISCONNECT FOR CONNECTION TO WALK-IN COOLER.

SINGLE-LINE DIAGRAM GENERAL NOTES

- a) NOT USED.
- b) ALL NEW CIRCUIT BREAKERS, FUSIBLE SWITCHES IN MAINSWITCHBOARD OR PANEL BOARDS SHALL BE SERIES RATED TO MATCH EXISTING AIC RATING OR APPROVED EQUAL OR 65KAIC, UNLESS NOTED OTHERWISE.
- c) MOTOR CIRCUIT PROTECTORS SHALL NOT BE A PART OF A SERIES COMBINATION INTERRUPTING RATING.
- d) SERIES COMBINATION AIC RATING SHALL NOT BE USED WHEN THE SECONDARY EQUIPMENT IN THE SERIES IS SUBJECTED TO A TOTAL CONNECTED FULL LOAD MOTOR CURRENT OF MORE THAN 1% OF ITS AIC RATING.
- e) EQUIPMENT ENCLOSURES SHALL BE CLEARLY MARKED "CAUTION-SERIES RATED SYSTEM - __KAMPS AVAILABLE, IDENTIFIED REPLACEMENT COMPONENTS REQUIRED", IN COMPLIANCE WITH 2022 CEC (2020 NEC) SECTION 110-22. END USE EQUIPMENT SHALL ALSO BE MARKED WITH THE HIGHER SERIES COMBINATION INTERRUPTING RATING AS PER 2022 CEC SECTION 240-83(C). NO
- F) FUSES SHALL BE PROVIDED WITH REJECTION TYPE FUSE HOLDERS.
- a) ELECTRICAL EQUIPMENT SHALL BE LISTED BY THE CITY, WHERE THE PROJECT IS LOCATED, RECOGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE DEPARTMENT.
- h) NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN THE DEDICATED SPACE ABOVE THE ELECTRICAL EQUIPMENT.

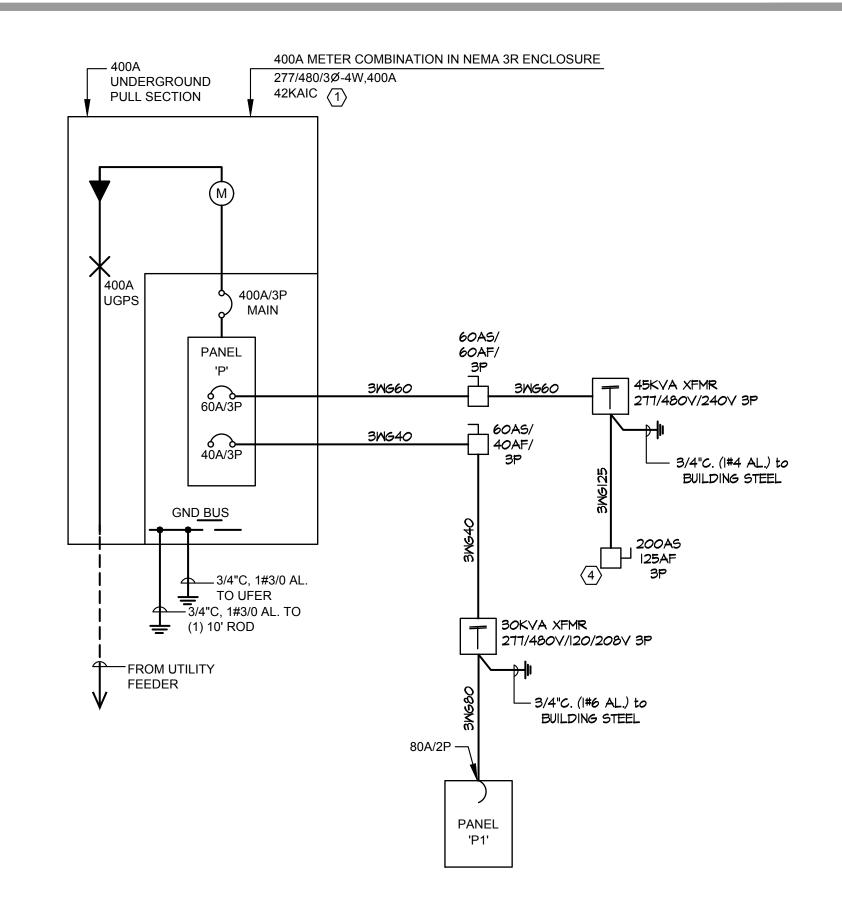
ENERGY STORAGE SYSTEM (ESS) READY NOTES

- ALL SINGLE-FAMILY RESIDENCES THAT INCLUDE ONE OR TWO DWELLING UNITS SHALL MEET THE FOLLOWING. ALL ELECTRICAL COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE:
- I. AT LEAST ONE OF THE FOLLOWING SHALL BE PROVIDED:
- A. ESS READY INTERCONNECTION EQUIPMENT WITH A MINIMUM BACKED-UP CAPACITY OF 60 AMPS AND A MINIMUM OF FOUR ESS-SUPPLIED BRANCH CIRCUITS, OR
- B. A DEDICATED RACEWAY FROM THE MAIN SERVICE TO A PANELBOARD (SUBPANEL) THAT SUPPLIES THE BRANCH CIRCUITS IN SECTION 150.0(S)(2). ALL BRANCH CIRCUITS ARE PERMITTED TO BE SUPPLIED BY THE MAIN SERVICE PANEL PRIOR TO THE INSTALLATION OF AN ESS. THE TRADE SIZE OF THE RACEWAY SHALL BE NOT LESS THAN I INCH. THE PANELBOARD THAT SUPPLIES THE BRANCH CIRCUITS (SUBPANEL) MUST BE LABELED "SUBPANEL SHALL INCLUDE ALL BACKEDUP LOAD CIRCUITS."
- 2. A MINIMUM OF FOUR BRANCH CIRCUITS SHALL BE IDENTIFIED AND HAVE THEIR SOURCE OF SUPPLY COLLOCATED AT A SINGLE PANELBOARD SUITABLE TO BE SUPPLIED BY THE ESS. AT LEAST ONE CIRCUIT SHALL SUPPLY THE REFRIGERATOR, ONE LIGHTING CIRCUIT SHALL BE LOCATED NEAR THE PRIMARY EGRESS AND AT LEAST ONE CIRCUIT SHALL SUPPLY A SLEEPING ROOM RECEPTACLE OUTLET.
- 3. THE MAIN PANELBOARD SHALL HAVE A MINIMUM BUSBAR RATING OF 225 AMPS.
- 4. SUFFICIENT SPACE SHALL BE RESERVED TO ALLOW FUTURE INSTALLATION OF A SYSTEM ISOLATION EQUIPMENT/TRANSFER SWITCH WITHIN 3 FEET OF THE MAIN PANELBOARD. RACEWAYS SHALL BE INSTALLED BETWEEN THE PANELBOARD AND THE SYSTEM ISOLATION EQUIPMENT/TRANSFER SWITCH LOCATION TO ALLOW THE CONNECTION OF BACKUP POWER SOURCE.



TYPICAL SINGLE LINE DIAGRAM- ADU

SCALE: NONE

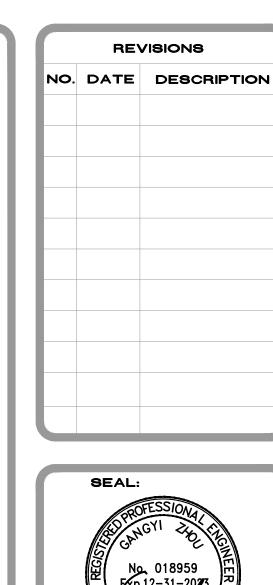


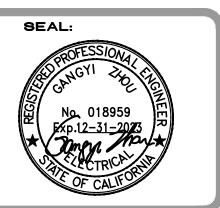
SINGLE LINE DIAGRAM- BARNHOUSE

SCALE: NONE

	LOAD SUMMAR	RY- BARNHOUSE
	DING SQUARE FOOTAGE = 785(BARN) + 770(OFFICE)	WATTAGE = (W/SFT)xSQUARE FEET)
I.	BARN GENERAL POWER (2 WATTS/SQUARE FOOT)	13570 VA
2.	OFFICE GENERAL POWER (3 WATTS/SQUARE FOOT)	2310 VA
3.	OFFICE HVAC (~1.5 TONS)	3120 VA
4.	WALK-IN COOLER (90A @ 3P 240V)	37412 VA
	SUBTOTAL	56.4 KVA
	POWER FACTOR(80%)	SUBTOTAL×1.2 = 67.7 KVA
	SAFETY FACTOR	67.7×1.2 = 81.2 KVA
	IO-YEAR GROWTH FACTOR (IO%)	81.2×1.1 = 89.3 KVA
AMF	PERAGE @277/480V 3 PHASE 4 WIRE	108 AMPS
SE	RVICE @277/480V 3 PHASE 4 WIRE	400 AMPS

SERVICE LOAD CALCULATION-	-ADU
Dwelling Information: Floor Area: Heater Type: Dryer: Oven: Cooktop:	794SFT Electricity Electricity Electricity N/A
General Load: Genral Lighting (Floor Area X 3VA/SFT): Small Appliance (3-20ACK By CEC 210.11): Laundry(1-20ACKT By CEC210.11): Bathroom(1-20ACKT By CEC210.11): Dishwasher: Microwave Oven: Garbage Disposal: Bathroom Fans: Dryer: Oven: Refrigerator: Water Heater:	2382VA 3000VA 1500VA 0VA 1200VA 1500VA 400VA 5000VA 8000VA 1000VA 5000VA
Total General Load:	30182VA
First 10 KVA at 100%: Remainder at 40% (20182VA X 0.4): Subtotal General Load:	10000VA 8072.8VA 18072.8VA
Air Conditioning KVA Calculation: Outdoor Condensing Unit: Indoor Fan Coil Unit: Total AC Load:	2454VA 540VA 2994VA
Calculated Load For Service: (18072.8VA+2994VA)/240V=88A(Service Rating)	
Provided Service Rating:	200A

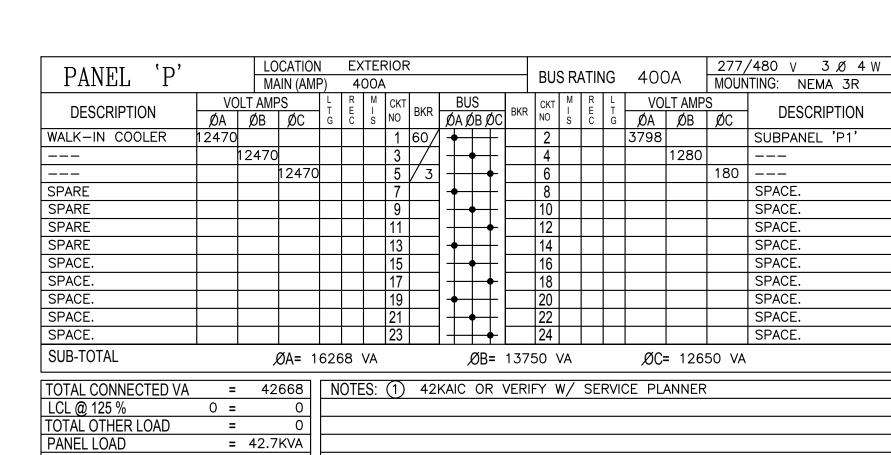






ARM

GMEP GMEP 08/04/23 AS NOTED 23-598



PANEL 'P1'		LO	CATIO	١			RIC	AL F	200	M			DH	e D	ATIN	10	804			/208 v 3 Ø 4 W
FANEL FI		M <i>P</i>	AIN (AM	<u>P)</u>	_	AC							DU	0 K/	4111	NG .	007	١	MOUN	ITING: SURFACE
DESCRIPTION		LT AMF		L	R F	M	CKT	BKR		BUS		BKR	CKT	M	R E	L		LT AMP		DESCRIPTION
	ØΑ	ØВ	ØC_	Ġ	E C	Š	NO		ØΑ	ØВ	<u>ØC</u>		NO	Š	Ċ	Ġ	ØΑ	ØВ	ØС	
BARN LIGHTING	1341						1	20-1	+	+	+	20-1	2				1001			OFFICE LTG
BARN FLOOR REC		540					3	20-1	1	-	+	20-1	4					1260		OFFICE REC
BARN WALL REC			1260				5	20-1	$\mid +$	+	+	20-1	6						180	BATH REC
SPARE							7	20-1	+	+	+	20/	8				1456			HP-18
SPARE							9	20-1	+	+	+	/2	10					1456		
SPARE							11	20-1		+	+	15/	12						104	FC-18
SPARE							13	20-1	┿	+	+	/2	14					104		
SPACE.							15			-∳-	+		16							SPACE.
SPACE.							17		+	-	+		18							SPACE.
SPACE.							19		┥	_	+		20							SPACE.
SPACE.							21		+	+	+		22							SPACE.
SPACE.							23		+	-	+		24							SPACE.
SUB-TOTAL		J	ØA= 3	798	3 VA	4				ØE	3=	1800) VA	4			ØC=	= 154	4 VA	
TOTAL CONNECTED VA	=	7	142	N	OTE	S:	1	42	KAIC	0 0	R '	VERIF	-Y \	N/	SE	RVI	CE PL	ANNER		
LCL @ 125 %	0 =		0				2	VE	RIFY	′ WI	ITH	VEN	IDEF	₹ A	.ND	ALI	_ NEC	ESSAR	Y TRA	DES FOR ELECTRICAL
TOTAL OTHER LOAD	=		0					RE	QUII	REM	1EN	TS								
PANEL LOAD	=	7.1	KVA				3	RE	FER	: TC) N	IECH,	ANIC	CAL	DF	RAWI	NGS F	OR D	ETAILE	D EQUIPMENT
FEEDER AMPS	=		32A					INF	ORI	MAT	ION	BEI	FOR	E E	3ID	ΑN	D ROL	IGH IN	l	

PANEL 'PA'		LOCATI	ON	EX	TERI	OR			DLIG	S RAT			25	AMP		120/24	40V 1 Ø 3 W	
PANEL PA		MAIN (AMF	<u> </u>	M.L	0.			ВОЗ	5 KA	ING		225 /	AIVIP	S	MOUNTING: NEMA 3R		
DESCRIPTION		AMPS	L	R E	M	СКТ			JS		CKT	M	R E	<u>L</u>	VOLT	AMPS	DESCRIPTION	
DESCRIPTION	ØA	Дв	Ġ	c	s	NO	BKR	ДΑ	Øв	BKR	NO	S	С	Ğ	ØΑ	Øв	DESCRIPTION	
SMALL APPS 1	1500					1	20-1	•	+	20-1	2				794		GENERAL LTG 1	
SMALL APPS 2		1500				3	20-1	+	- ∳-	20-1	4					794	GENERAL LTG 2	
LAUNDRY	1500					5	20-1	•	+	15-1	6				0		SPARE	
BATH REC		0				7	20-1	+	- ∳-	15-1	8					95	EXT LTG	
FC-18	324					9	15/	•	_	15-1	10				95		EXT REC	
1		324				11	/2	+	-	15-1	12					1500	MICROWAVE	
LIVING REC 1	535					13	20-1	+		15-1	14				1200		G.D.	
LIVING REC 2		535				15	20-1	+	-	15-1	16					1200	D.W.	
WATER HEATER	0					17	20-1	+	+	20/	18				1357		HP-18	$-\frac{1}{1}$
DINING REC (AFCI)		500				19	20-1	+	-	/2	20					1357		Ŋ
OVEN	4000					21	50/	+	+	15-1	22				100		CO&SMOKE SENSOR	
		4000				23	/2	+	-	15-1	24					0	SPARE	
HEATER	2500					25	25/	+	+	30/	26				2500		DRYER	
		2500				27	/2	+	-	/2	28					2500		
SPARE	0					29	15-1	+	+	60/	30				2500		SUBPANEL 'ESS'	
SPARE		0				31	15-1	+	<u> </u>	/2	32					0	-	
SUB-TOTAL		Ø A=	1719	99	VA				Øв= ′	17805	S V	A						
TOTAL CONNECTED VA	3)= 2	21066.8		NOT	ES: (1) F	REFE	RTO) ME	CHAN	IICAI	L DF	RAW	/ING	S FOR I	DETAILE	ED EQUIPMENT	
LCL @ 125 %	= ()		INFORMA					TION	BEF	ORE	BID	AN	D RC	DUGH II	٧.		
TOTAL OTHER LOAD	= ()		(2) REFER TO						GLE	LINE	FOI	R AI	C R/	ATING.			
PANEL LOAD	3 = 2	21.1KVA		③ REFER TO) ADI	J SEF	RVIC	E LC	DAD	CAL	CULAT	ION ON	SHEET E-1.1.	
FEEDER AMPS	(3)= 8	88A																7

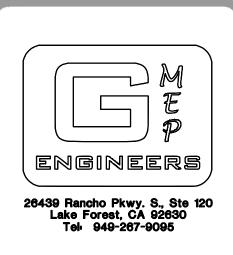
277/480 V 3 Ø 4 W MOUNTING: NEMA 3R

SUB-TOTAL		,ØА=	16268 VA	ØB=	13750 VA	ØC= 12650 VA	
TOTAL CONNECTED VA	=	42668	NOTES: (1)	42KAIC OR	VERIFY W/	SERVICE PLANNER	
LCL @ 125 %	0 =	0					
TOTAL OTHER LOAD	=	0					
PANEL LOAD	=	42.7KVA					
FEEDER AMPS	=	58.7A					

BARN FLOOR REC	5	40		3	20-1 +	+ +	- 20–1	4			1260		OFFICE REC	
BARN WALL REC		1260		5	20-1	+	- 20-1	6				180	BATH REC	
SPARE				7	20-1	++	20/	8		1456			HP-18	
SPARE				9	20-1	++	· /2	10			1456			
SPARE				11	20-1	+	15/	12				104	FC-18	\neg
SPARE				13	20-1	++	· /2	14			104			
SPACE.				15	1 1	++	. 🗀	16					SPACE.	
SPACE.				17	\Box	-	. 🖂	18					SPACE.	
SPACE.				19	 	++	. 🖂	20					SPACE.	
SPACE.				21	1 1 4	\rightarrow	. \square	22					SPACE.	
SPACE.				23	1 1 +	+	. 🔲	24					SPACE.	
SUB-TOTAL		ØA= 3	798 VA			ØB=	1800) VA		ØC=	= 154	4 VA		
TOTAL CONNECTED VA	=	7142	NOTES	S: (1)	42KAI	C OR	VERIF	Y W/	SERVIC	E PL	ANNER) :		
LCL @ 125 %	0 =	0		2	VERIF	Y WITH	H VEN	DER A	ND ALL	. NEC	ESSAR	Y TRA	DES FOR ELECTRICA	Ĺ
TOTAL OTHER LOAD	=	0			REQUI	REMEI	NTS							
PANEL LOAD	=	7.1KVA		(3)	REFER	R TO	MECHA	ANICAL	DRAWI	NGS F	OR D	ETAILE	D EQUIPMENT	
FEEDER AMPS	=	32A			INFOR	MATIO	N BEF	FORE E	BID AND	ROL	IGH IN	1.		
DANEL 'DA		LOCATION	ON EXT	TERIOR	₹	П	BUS RATING 225 AMPS					120/240V 1 🛭 3 W		
PANEL 'PA	k .	MAIN (A	AMP)	M.L.C).	B(MOUNTING: NEMA 3R		

REVISIONS NO. DATE DESCRIPTION





ARM

GMEP CHECKED GMEP DATE 08/04/23
SCALE
AS NOTED
JOB NO.
23-598
SHEET

PANEL 'ESS'	LOCAT MAIN (CTEF				BUS	S RA	ΓING	1	00 A	AMP	S	120/240V 1 Ø 3 W MOUNTING: NEMA 3R		
DECODIDATION	VOL	AMPS	L R		M	СКТ		В	US		СКТ	M	R E	L	VOLT	AMPS	DECODIDITION
DESCRIPTION	ØΑ	Øв	Ġ	1 1		s NO		BKR 🛮 🛮 A		BKR	NO	S	C	Ġ	ØΑ	Øв	DESCRIPTION
GENERAL LTG 1	794					1	20-1	•	_	20-1	2				0		SPARE
ENTRY LTG		794				3	20-1		- ∳-	20-1	4					1000	REFRIGERATOR
SPARE	0					5	20-1	- -	+	20-1	6				0		SPARE
SPARE		0				7	15-1		- ∳-	15-1	8					0	SPARE
SPARE	0					9	15-1	- -	+	15-1	10				0		SPARE
SPARE		0				11	15-1		→	15-1	12					0	SPARE
SUB-TOTAL		ØA=1	087	•	VA				ØB=2	2087	V	A					
TOTAL CONNECTED VA = 3174 NOTES: (1) REFER TO MECHANICAL DRAWINGS FOR DETAILED EQUIPM								ED EQUIPMENT									
LCL @ 125 %	=	0	1 [١N	IFOF	RMAT	ION B	EFO	RE B	ID A	ND	ROI	JGH IN.		
		_	7 F			$\overline{}$											

2 REFER TO SINGLE LINE FOR AIC RATING.

3 BACKFEED TYPE BREAKER RESERVED FOR FUTURE SOLAR PANEL.

TOTAL OTHER LOAD

PANEL LOAD

FEEDER AMPS

= 0

= 3.2KVA

ELECTRICAL GENERAL NOTES

- ALL FIXTURES TO BE HIGH EFFICACY PER TABLE 150.0-A. ALL OUTDOOR FIXTURES TO BE CONTROLLED BY TIME CLOCK/PHOTOCELL, MOTION SENSOR/PHOTOCELL OR ASTRONOMICAL TIME CLOCK IN ADDITION TO MANUAL ON/OFF SWITCH. MANUAL ON/OFF SWITCH SHALL NOT OVERRIDE AUTOMATIC TIME CLOCK/PHOTOCELL, TIME CLOCK/MOTION SENSOR OR ASTRONOMICAL TIME CLOCK CONTROL.
- 2. ALL INDOOR LIGHT FIXTURES TO BE CONTROLLED BY DIMMER SWITCH. (EXCEPTIONS: HALLWAYS AND CLOSETS LESS THAN TOSF).
- 3. THIS DRAWING IS FOR REFERENCE ONLY. WIRE CKT 20 ON THE PLAN TO ALL DETECTORS FOR A COMPLETE AND OPERATIONAL SYSTEM. VERIFY W/LOCAL JURISDICTION FOR ALARM DETECTOR REQUIREMENT BEFORE ROUGH-IN.
- 4. IN DWELLING AREA SPECIFIED IN CEC 2022 SECTION 210.52, ALL 125-VOLT, 15-AND 20- AMPERE RECEPTACLES SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES.
- 5. OUTLETS INSTALLED IN FAMILY ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, KITCHENS OR SIMILAR ROOMS OR AREAS WILL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.
- 6. ALL NEW SMOKE ALARMS & CARBON MONOXIDE ALARM ARE 120V HARD-WIRED WITH BATTERY BACKUP AND ARE AUDIBLE IN ALL SLEEPING ROOMS.
- 7. ELECTRICAL CONTRACTOR MUST VERIFY MECHANICAL EQUIPMENT INFORMATION FOR MECHANICAL DRAWING BEFORE ISSUING ANY BID. NOTIFY ENGINEER IMMEDIATELY IF ANY DISCREPANCY OCCUR.
- 8. LIGHT FIXTURES ABOVE THE BATH TUB AND ON THE EXTERIOR OF THE BUILDING SHALL BE WET OR DAMP LOCATION RATED PER 410.10(A) AND (D) OF THE CEC.

ELECTRICAL KEY NOTES

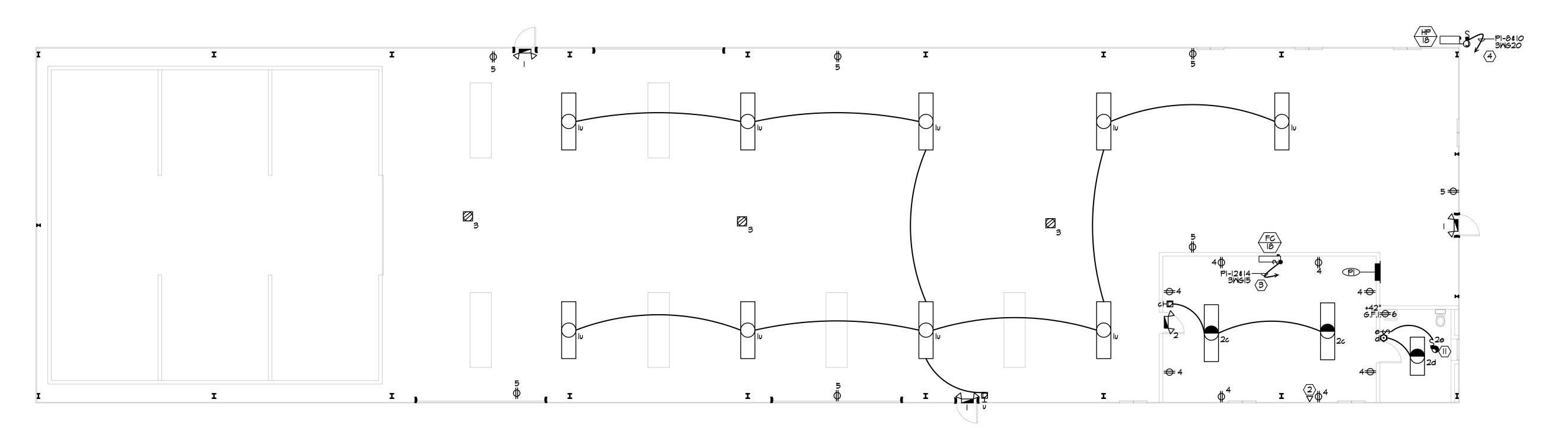
- PROVIDE OUTLET (1)RG6 & (1)CAT5. RUN CABLE TO THE CATY BOX AND RUN CAT5 CABLE TO THE APPROPRIATE DESTINATION. VERIFY WITH TV SERVICE PROVIDER AND IT CONSULTANT BEFORE ROUGH-IN.
- 2 PROVIDE (I)CAT5 DATA JACK AND RUN CAT5 CABLE TO THE DESTINATION
- 3 PROVIDE 15A/2P MOTOR RATED SWITCH FOR CONNECTION TO THE FC. VERIFY EXACT LOCATION AND ADDITIONAL INFORMATION WITH MECHANICAL
- LOCATION AND ADDITIONAL INFORMATION WITH MECHANICAL DRAWINGS.
- TO MECHANICAL PLAN FOR DETAIL.

- SUGGESTED BY THE IT CONSULTANT.
- 4 PROVIDE 30A/2P FUSED DISCONNECT FOR CONNECTION TO THE HP. VERIFY EXACT
- 5 PROVIDE 15A/IP MOTOR RATED SWITCH FOR CONNECT TO THE EXHAUST FAN. REFER

ELECTRICAL - ADU UNIT PLAN

- FOR WASHER

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

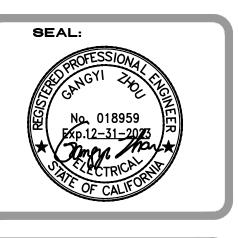


—(N)RESIDENTIAL METER COMBO 120/240V, IΦ-3W 200A

ELECTRICAL - BARNHOUSE PLAN

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

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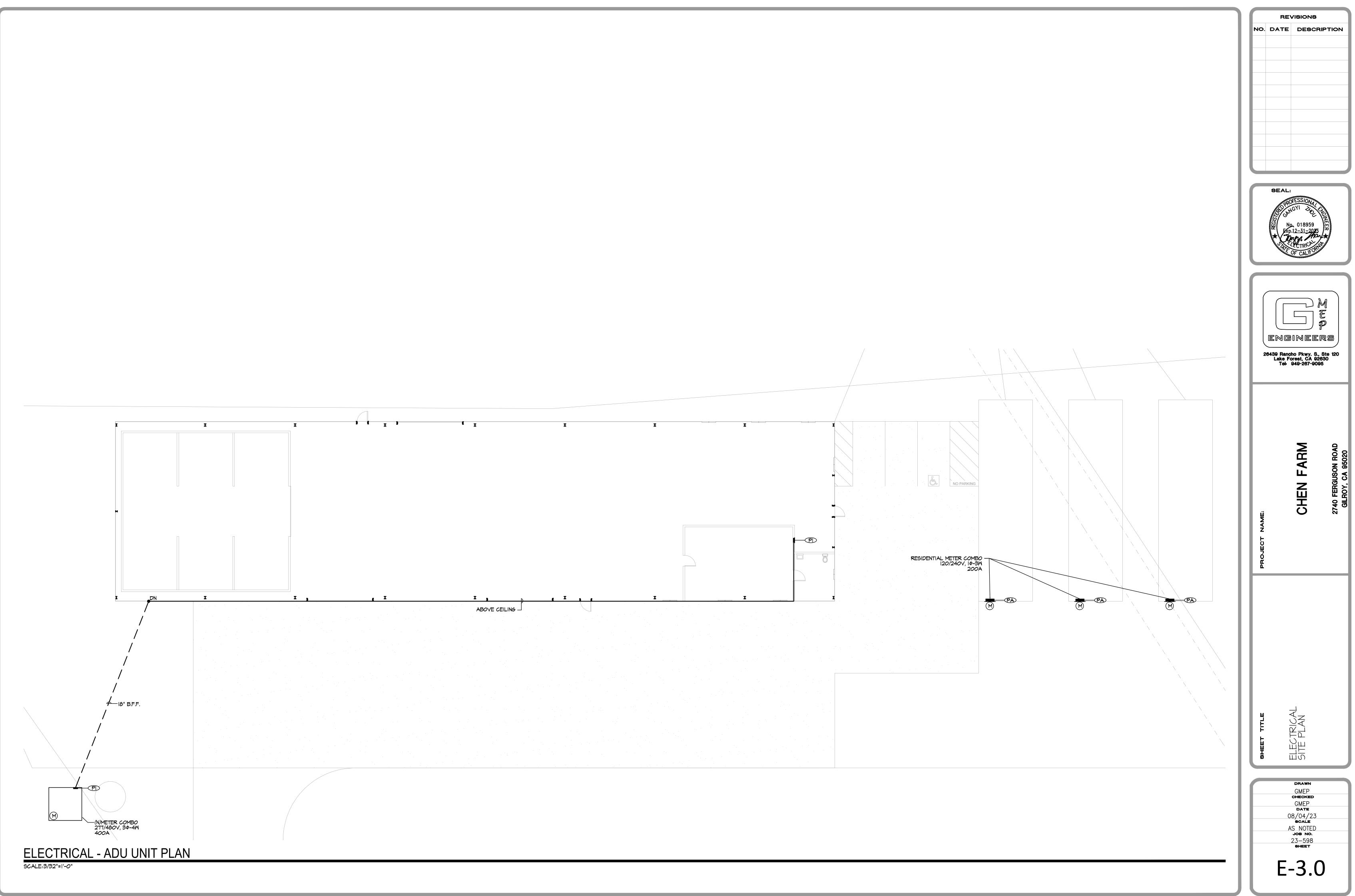




CHEN F

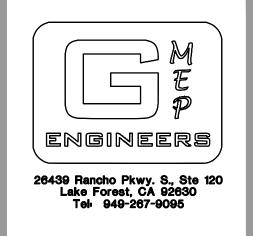
08/04/23 SCALE AS NOTED JOB NO. 23-598 SHEET

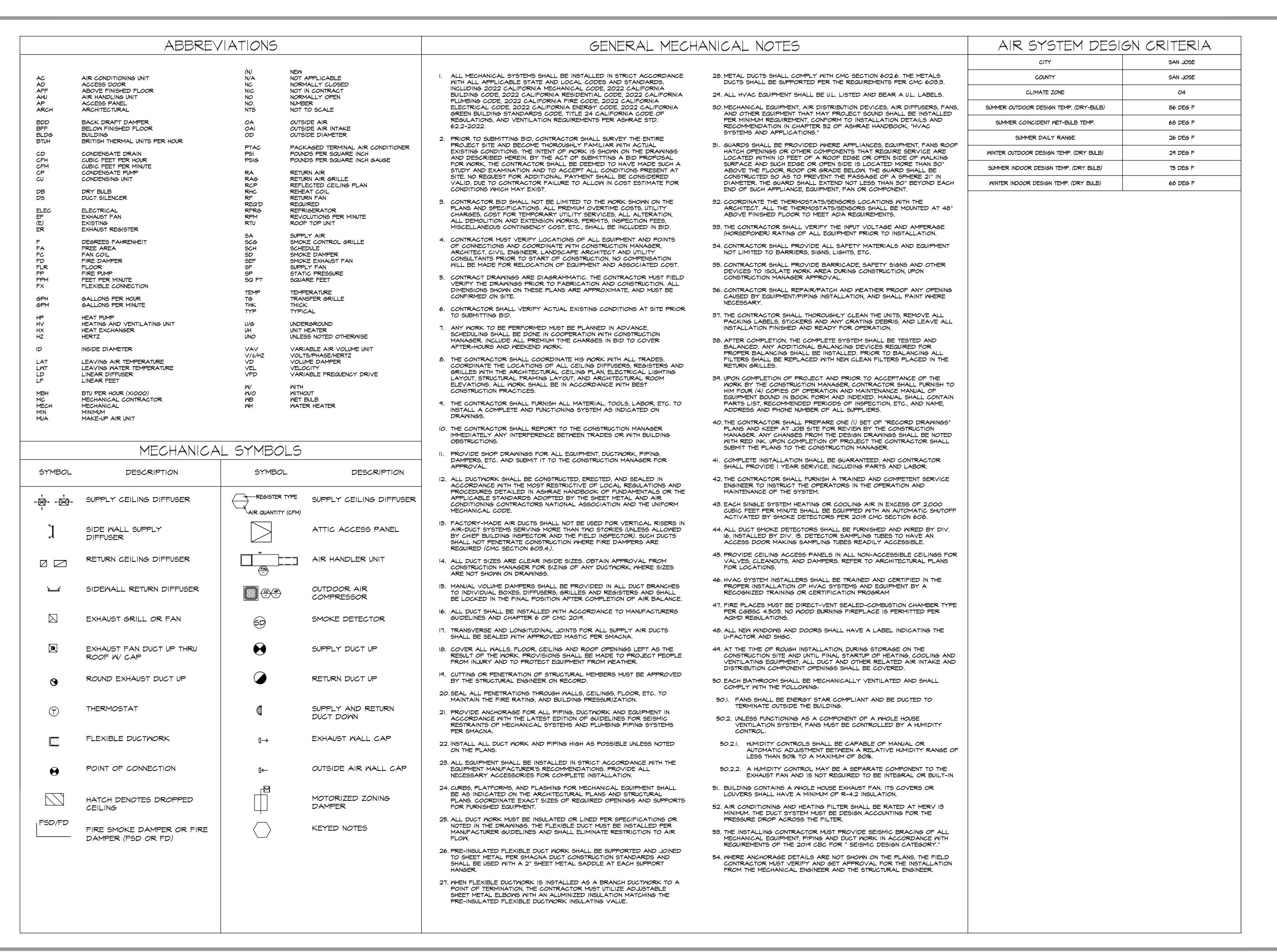
E-2.0



NO. DATE DESCRIPTION







NO. DATE DESCRIPTION





CHEN FARM

MECHANIOAL HVAO NOTES, SYMBOLS ♣ SHEET INDEX - MANUFACTURED

DRAWN
GMEP
CHECKED
GMEP
DATE
08/04/23
SCALE
AS NOTED
JOB NO.
23-598

M-3.0

RECTANGULAR DUCT SIZE ESTIMATE

DESIGN			DUCT HEIG	HT - NET	INSIDE DIM	1ENSION IN	INCHES		
CFM	4"	CFM	6"	CFM	8"	CFM	10"	CFM	12"
60	6X4	60	4×6	90	4X8	120	4XI0	150	4XI2
90	8X4	110	6×6	160	6×8	215	6XIO	270	6XI2
120	10X4	160	8×6	230	8X8	310	8XI0	400	8XI2
150	12X4	215	10X6	310	10X8	430	IOXIO	550	10X12
180	14X4	270	12X6	400	12X8	550	12XIO	680	12XI2
210	16X4	320	14X6	490	14X8	670	14XIO	800	14XI2
240	18X4	375	16×6	58 <i>0</i>	16X8	800	16X10	950	16X12
270	20X4	430	18X6	670	18X8	930	18X10	1100	18X12
300	22X4	490	20X6	750	20X8	1060	20XI0	1250	20XI2
33 <i>0</i>	24X4	540	22X6	840	22X8	1200	22XIO	1400	22XI2
		600	24X6	930	24X8	1320	24XIO	1600	24XI2
		650	26×6	1020	26X8	1430	26XIO	1750	26XI2
		710	28×6	1100	28X8	1550	28XIO	1950	28XI2
		775	30X6	1200	30X8	1670	30XI0	2150	30XI2
40	21/2XIO			1300	32X8	1800	32XIO	2300	32XI2
70	21/2X14			1400	34X8	1930	34XIO	2450	34XI2
150	21/2X30			1500	36×8	2060	36XIO	2600	36XI2
		100	31/2X14			2200	38XIO	2750	38XI2
		220	31/2X30			2350	40XI0	2900	40XI2
ECTANGL	LAR SHEET	Г METAL :	DUCT = .07	" ON MOS	T METAL D	PUCT CALC	ULATORS	3050	42XI2

#	ELEXIBLE	DUCT
DUCT SIZE	DESIGN SUPPLY AIRFLOW (CFM)	DESIGN RETURN AIRFLOW (CFM)
5"	60	54
6"	100	90
7"	150	135
8"	240	216
9"	300	270
10"	400	360
12"	650	585
14"	1000	900
16"	1400	1270
18"	2000	1800
20"	2500	2250

FLEX DUCT = .I" ON MOST METAL DUCT CALCULATOR

DESIGN AIRFLOW (CFM)
60
100
150
240
300
400
650
1000
1400
2000
2500

ROUND METAL PIPE = . I" ON METAL DUCT CALCULATORS

AIR DISTRIBUTION DEVICE SCHEDULE

TAG ON PLANS	MANUFACTURER \$ MODEL #	APPLICATION # TYPE	BLOMPATTERN	NECK SIZE	REMARKS
C5-2	SHOEMAKER 850 OR EQUAL	CEILING OR SIDEWALL MOUNTED	2-MAY	SEE PLANS	CEILINGS OR SIDEWALL STAMPED DIFFUSER W/ LEVER OPERATED OPPOSED BLADE DAMPER
CS-3	SHOMMAKER 845 OR EQUAL	SEE DWGS	3-MAY	SEE PLANS	CEILING OR SIDE WALL STAMPED DIFFUSER W/ LEVER OPERATED OPPOSED BLADE DAMPER
CS-4	SHOEMAKER 150 OR EQUAL	SEE DWGS	4-MAY	SEE PLANS	CEILING STAMPED DIFFUSER W/ LEVER OPERATED OPPOSED BLADE DAMPER
CRG	SHOEMAKER FG OR EQUAL	SEE DWGS		SEE PLANS	CEILING STAMPED FACE FILTER GRILL MINIMUM MERV 13 FILTER

NOTES:

I. CRG SHALL HAVE MAXIMUM FACE VELOCITY OF 450 FPM WITH A I" FILTER NOT LESS THAN MERV 13 W/ MAX. PRESSURE DROP OF 0.2" W.C. FOR FILTER

B. CONTRACTOR TO USE OR EQUAL REGISTERS. THE THROW PATTERNS SHALL BE MATCHED PER THE PLANS. BASE THE ALTERNATE SELECTION BASE ON MAXIMUM PRESSURE DROP OF 0.04" M.C. THE VELOCITY AT THE FACE SHALL NOT EXCEED 100 FPM.

FAN SCHEDULE

EQUIPMENT SERVICE	LOCATION CFM		STATIC	MOTOR							
		CFM	CFM PRESS. (IN W.G.)		HP	RPM	VOLTPHCY.	MANUFACTURER & MODEL	SONES	OPTIONS-ACCESSORIES	
(EF) B	BATHROOM	CEILING	84	0.25	37.0			120-1-60	AIRKING E80SH W/ B00ST	0.7	BACK DRAFT DAMPER CONTROLLED BY BUILT IN HUMIDITY SENSOR OPER. WT. = 17.0 LBS
EF BH	BATHROOM	CEILING	60	0.25	7.3			120-1-60	AIRKING D4SH	0.3	BACK DRAFT DAMPER CONTROLLED BY SWITCH (CONTINUOUS OPERATION WHILE HOUSE IS OCCUPIED) OPER. WT. = 17.0 LBS

VERIFY WITH ARCHITECT/OWNER FOR EXACT MODEL NUMBER BEFORE ROUGH-IN. ALL EXHAUST FANS TO BE ENERGY STAR CERTIFIED.

SPLIT SYSTEM OUTDOOR HEAT PUMP CONDENSING UNIT

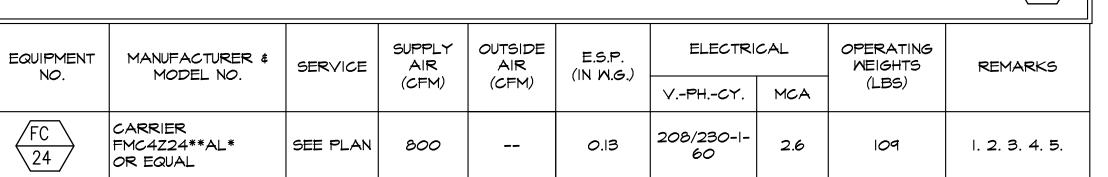


				HSPF	PF COOLING		ELECTRICAL		OPERATING	REFRIGERANT TUBE			
EQUIPMENT NO.	MANUFACTURER \$ MODEL NO.	SERVICE CAPAC	CAPACITY (BTU/HR)		CAPACITY (B.T.U/HR)	SEER2/ EER2	VPHCY.	MCA	MOCP	MEIGHTS (LBS)	LIQUID	VAPOR	REMARKS
$\langle \begin{array}{c} 111 \\ 24 \end{array} \rangle$	CARRIER GH5SAN42400A OR EQUAL	SEE PLAN	23,200	7.8 HSPF2	23200	15.2/12.0	208/230- I-60	14.5	25	153	3/8	5/8	l.

NOTES:

I. PROVIDE ALL REQUIRED MATERIALS & INSULATED REFRIGERANT LINES FOR COMPLETE INSTALLATION, SIZE RS/RL PIPING PER MANUFACTURERS GUIDELINES.

SPLIT SYSTEM AIR HANDLER FAN COIL UNITS SCHEDULE (FC)



- I. PROVIDE REQUIRED ACCESS TO INDOOR UNIT PER CMC.

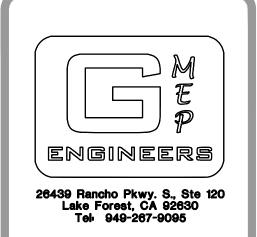
 2. PROVIDE PROGRAMMABLE ROOM THERMOSTAT FOR EACH FAU/FC UNIT.

 3. PROVIDE CONTROL WIRING, CONDUIT, ETC. FOR A COMPLETE AND OPERABLE SYSTEM.
- 4. PROVIDE SECONDARY CONDENSATE DRAIN PAN FOR ALL DX COILS.

5. PROVIDE MERY IS FILTER AT RETURN AIR PLENUM CONNECTION TO UNIT.

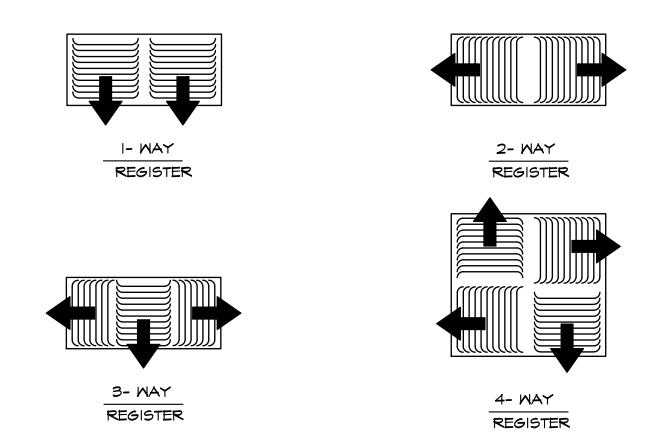
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ARM

08/04/23 Scale AS NOTED **JOB NO.** 23-598

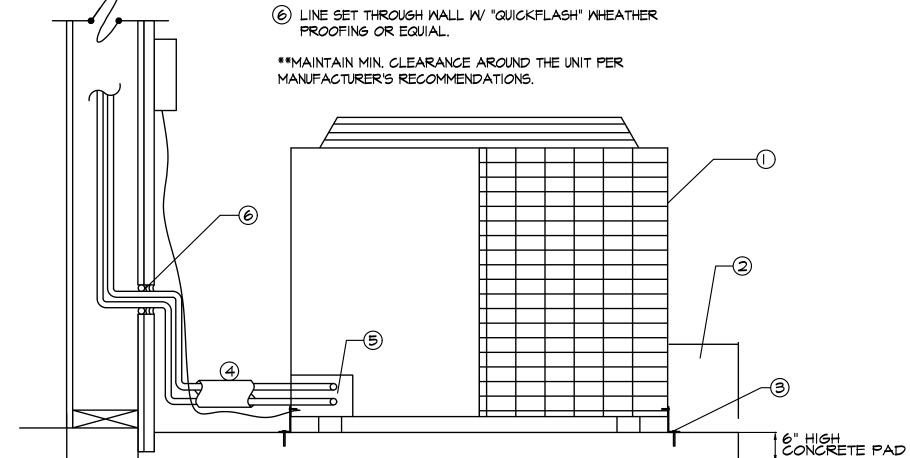


COMMOM TYPES OF DIRECTIONAL REGISTERS

SCALE: NONE



- (2) EXTEND PAD A MIN. OF 4" FROM UNIT ON ALL SIDES. COORDINATE SIZE WITH CONDENSING UNIT USED.
- (3) STRAP A/C TO CONC SALB WITH ANCHOR BOLD/SCREW-PER A/C MANUFACTURER RECOMMENDATION AT ALL SIDES.
- (4) REFER TO "PIPE PENETRATION DETAIL"
- (5) LIQUID LINE AND INSULATED SUCTION LINE. SIZE PER RECOMMENDATIONS. WRAP ALL EXPOSED COPPER PIPING IN
- CONTACT. (6) LINE SET THROUGH WALL W/ "QUICKFLASH" WHEATHER

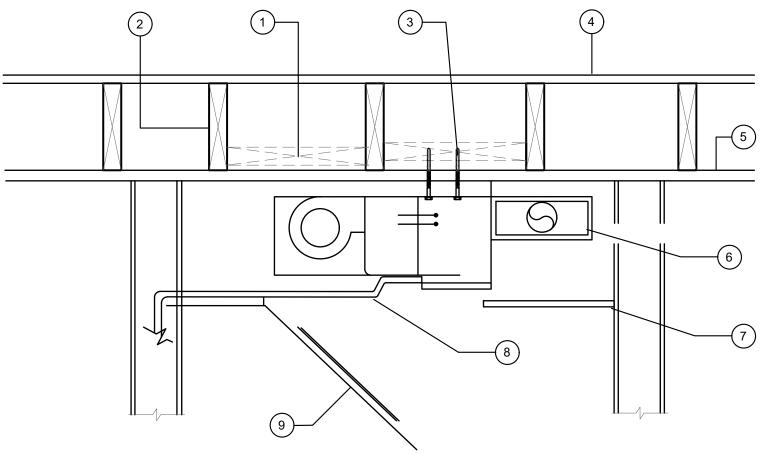


CONDENSING UNIT INSTALLATION ON GRADE SCALE: NONE

(1) 2X6 BLOCKING (2) STRUCTURAL JOIST

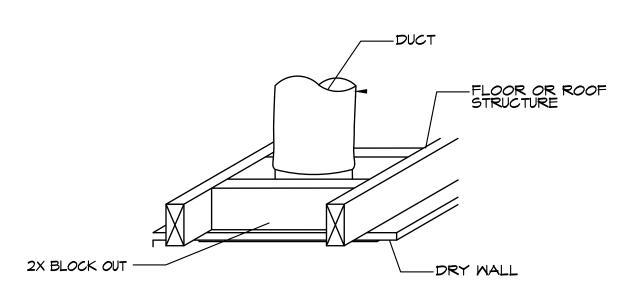
3 1/4" LAG SCREM W/ 2 1/2" PENETRATION

- (4) FLOOR ABOVE
- 5 FLOOR STRUCTURE WHERE OCCURS.
- (6) SEALED SUPPLY AIR PLENUM
- (7) NON- RATED SOFFIT
- 8 3/4" CONDENSATE DRAIN W/ TRAP.
- 9 FACTORY SUPPLIED LOUVERED ACCESS PANEL (BUILT IN GRILL PER THE UNIT PLANS. PROVIDE MERY IS FILTER AT THE GRILL



CEILING FAN COIL UNIT INSTALLATION

SCALE: NONE



TYPICAL REGISTER BLOCK OUT

SCALE: NONE

DRYER VENT SIZING

DRYER VENT SIZE | LT | REMARK 14'-0"

CLOTHES DRYER VENT SHALL NOT EXCEED A TOTAL COMBINED HORIZ. AND VERT. LENGTH OF 14' FOR 4" AND 34' FOR 5", INCLUDING TWO 90- DEGREE ELBOWS. TWO FEET SHALL BE DEDUCTED FOR EACH 90- DEGREE ELBOW IN EXCESS OF TWO. SECTION 504.4.2.1 OF THE CMC., FLEX DUCT PORTION CANNOT BE CONCEALED WITHIN BUILDING CONSTRUCTION AS PROPOSED

I. FOR A 4" GALVANIZED DRYER VENT DUCT IF: LI= 8' THEN: L2 = I4' - 8' = 6'

2. FOR AN EQUIVALENT 5" GALVANIZED DRYER VENT DUCT IF: LI= 8'
THEN: L2 = 34' - 8' = 26'

CFM = VELOCITY X AREA CFM 4" = CFM 5"

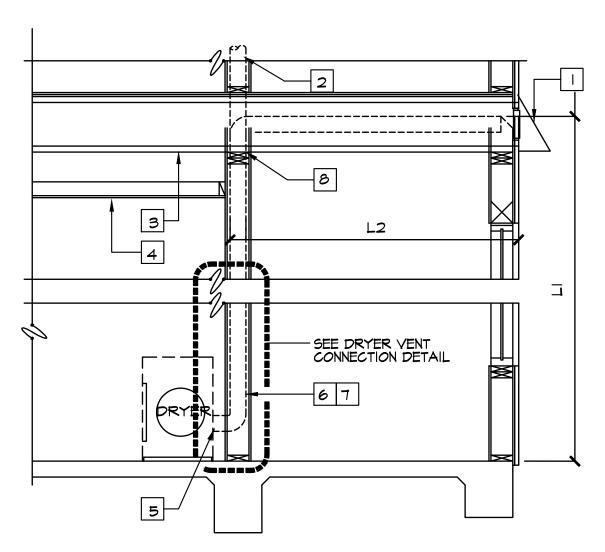
V4" X A4" = V5" X A5" $V4" \times (3.14 \times D4"^{2})/4 = V5" \times (3.14 \times D5"^{2})/4$ V4" = 5^/4^ X V5" = 1.5625 V5"

FRICTION 4" = FRICTION 5" =

- $= (f \times L4" \times V4"^{2})/2g = (f \times L5" \times V5"^{2})/2g =$ = $(f \times L4" \times (1.5625 \sqrt{5}")^{2})/2G = (f \times L5" \times \sqrt{5}")/2q$
- L5" = (1.5625)^ X L4" = 2.44 X L4" L4" = 14 ft
- $L5'' = 2.44 \times 14' = 34 \text{ ft}$
- 34 FEET OF 5" DUCTWORK IS EQUAL TO 14 FEET OF 4" DUCTWORK (WITH THE SAME AIRFLOW AND PRESSURE DROP).



FIRE CAULK AT PLATE PENETRATION (TYPICAL)



DRYER VENT W/ MAX LENGTH CALC OPTION SCALE: NONE

GMEP GMEP 08/04/23 SCALE AS NOTED

NO. DATE DESCRIPTION

SEAL

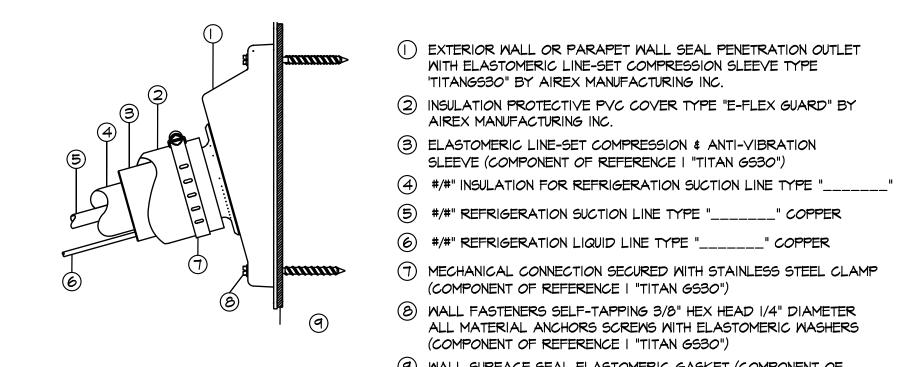
ENGINEERS

26439 Rancho Pkwy. S., Ste 120 Lake Forest, CA 92630 Tel: 949-267-9095

CHEN

M - 3.2

23-598



SCALE: NONE

9 WALL SURFACE SEAL ELASTOMERIC GASKET (COMPONENT OF REFERENCE I "TITAN GS30") PIPE PENETRATION DETAIL

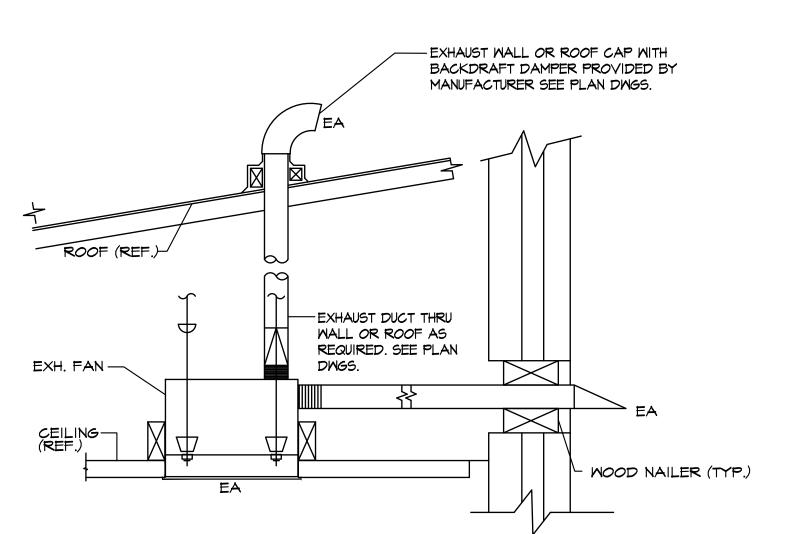
WITH ELASTOMERIC LINE-SET COMPRESSION SLEEVE TYPE

SLEEVE (COMPONENT OF REFERENCE | "TITAN 6530")

'TITANGS30" BY AIREX MANUFACTURING INC.

(COMPONENT OF REFERENCE | "TITAN GS30")

AIREX MANUFACTURING INC.



CEILING TYPE EXHAUST FAN

SCALE: NONE



HVAC GENERAL NOTES

- I. REFER TO SHEET M-I.O FOR LEGENDS AND GENERAL NOTES.
- 2. REFER TO SHEET M-I.I FOR EQUIPMENT SCHEDULES.
- 3. REFER TO DRAWING M-I.2 FOR TYPICAL MECHANICAL DETAILS.
- 4. THE DUCT ROUTING SHOWN ON PLANS ARE SCHEMATIC ONLY. VERIFY WITH STRUCTURAL AND ALL OTHER PARTIES REGARDING ANY DISCREPANCY AND REPORT TO THE MECHANICAL ENGINEER FOR APPROVAL.
- 5. REFER TO THE ARCHITECTURAL DRAWINGS FOR FINALIZED CEILING HEIGHTS.
- 6. FIRE SEAL ALL THE PENETRATIONS AS REQUIRED PER CMC AND CBC CODE REQUIREMENTS.
- 7. PROVIDE A MINIMUM OF 100 SQ. IN FREE AREA OPENING(S) INTO LAUNDRY ROOM FOR MAKE-UP AIR AS REQUIRED BY CODE (CMC 504.4.1).
- ANY OPENINGS INTO THE BUILDING.
- 9. OUTSIDE FRESH AIR INTAKES MUST BE 10 FEET FROM ANY PLUMBING VENTS AND EXHAUST VENTS

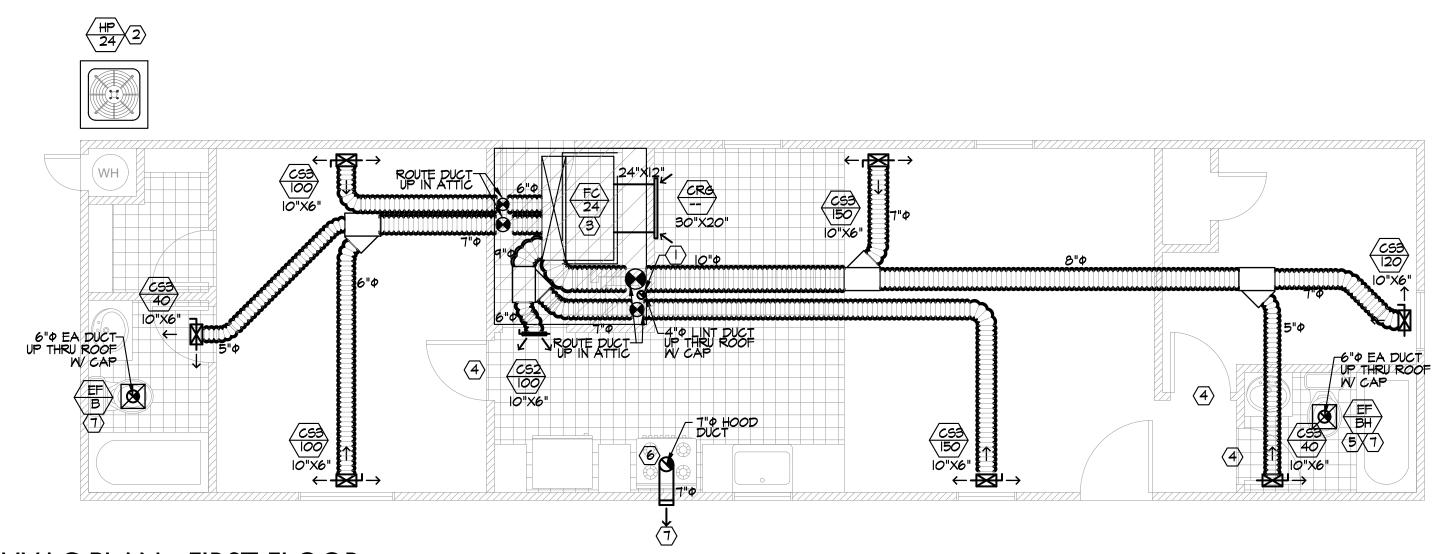
8. ALL TERMINATION OF ENVIRONMENTAL AIR DUCTS MUST BE LOCATED 3 FEET AWAY FROM

- IO. IF HUMIDISTAT IS REQUIRED, LOCATE IT ADJACENT TO THERMOSTAT.
- II. CONDENSATE PIPING FOR ALL INDOOR AIR HANDLERS SHALL FALL UNDER THE CONTRACTOR WORK SCOPE. COORDINATE WITH THE HVAC SUB ACCORDINGLY.
- 12. THE DEDICATED WHOLE HOUSE VENTILATION FAN MUST BE OPERATING 24/7 WHILE THE HOUSE IS OCCUPIED. THE FAN MUST BE INSTALLED PER MANUFACTURER GUIDELINES WITH ON-OFF SWITCH. PROVIDE A LABEL NEXT TO THE SWITCH WITH CLEARLY WRITTEN TEXT NO SMALLER THAN 12 POINT ARIAL TYPE, "THE FAN MUST BE ON 24/7 WHILE THE HOUSE IS OCCUPIED, UNLESS THERE IS SEVERE OUTDOOR AIR CONTAMINATION."
- 13. KITCHEN HOOD SHALL BE PROVIDED WITH MINIMUM 100 CFM OF EXHAUST AIR RATING AT 0.25" W.C.
- 14. "REGISTERED' COPY OF THE CF-2R FORMS SHALL BE SUBMITTED PRIOR TO FINAL INSPECTION, SIGNED BY HERS RATER, FOR FIELD VERIFICATION AND DIAGNOSTIC TESTING.
- 15. INSTALLING CONTRACTOR SHALL FILL OUT CF-3R FORMS AND SHALL HAVE IT READILY AVAILABLE TO THE INSPECTOR.
- 16. ALL INSTALLED FIRE PLACES MUST BE SEALED COMBUSTION TYPE AND MUST BE VENTED TO THE EXTERIOR.

HVAC KEYED NOTES

- CAP SHOULD BE LISTED FOR CLOTH DRYER VENTING (DRYER JACK). DRYER DUCT TO VENT TO EXTERIOR WITH BACKDRAFT DAMPER. CONTRACTOR TO INSTALL DRYER EXHAUST DUCT PER MANUFACTURER INSTALLATION GUIDELINES.
- PROVIDE RS/RL PIPING SIZE PER MANUFACTURER'S GUIDELINES. ROUTE FROM REMOTE CONDENSATE UNIT TO THE INDOOR AIR HANDLER. VERIFY CONDENSER LOCATIONS WITH ALL RELEVANT DESIGN PARTIES BEFORE INSTALLATION.
- THE 3/4" PRIMARY CONDENSATE LINE TO THE LAVATORY TAILPIECE. SECONDARY

 CONDENSATE TO DRAIN TO THE EXTERIOR ABOVE A WINDOW OR PROVIDE A SENSOR TO SHUT-OFF UNIT UPON DETECTION OF WATER. COORDINATE WITH THE PLUMBER.
- PROVIDE 1/2" DOOR UNDER CUT, TOP GRILL OR JUMPER DUCT
- THIS FAN DENOTES THE WHOLE HOUSE VENTILATION FAN. THE FAN TO RUN CONTINUOUSLY WHILE THE HOUSE IS OCCUPIED. CLEARLY LABEL NEXT TO THE SWITCH.
- CONNECT KITCHEN HOOD (MIN. 100 CFM) TO 7"\$ KITCHEN HOOD EXHAUST AIR DUCT (MIN. 6"\$). THE HOOD MUST VENT TO THE EXTERIOR W/ BACKDRAFT
- DUCT (MIN. 6"4). THE HOOD MUST VENT TO THE EXTERIOR W/ BACKDRAFT DAMPER. VERIFY W/ ARCH OR OWNER BEFORE ROUGH IN.
- EXHAUST OUTLET TERMINATES 3' AWAY FROM OPENINGS INTO THE BUILDING AND 3'
 AWAY FROM THE PROPERTY LINE. SEE CIVIL DRAWINGS AND ARCHITECTURAL DRAWINGS
 FOR PROPERTY LINE DETAILS.



HVAC PLAN - FIRST FLOOR

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

PRESCRIPTIVE DUCT SIZING REQUIREMENTS (FROM ASHRAE 62,2)
IN ORDER TO COMPLY WITH THE PRESCRIPTIVE DUCT SIZING REQUIREMENTS OF ASHRAE 62.2,A VENTILATION FAN MUST BE SELECTED THAT IS RATED TO PROVIDE AT A MINIMUM THE REQUIRED VENTILATION AIRFLOWAT 0.25 IN.M.G.AND THE DUCTS MUST BE SIZED IN ACCORDANCE WITH THE SPECIFICATIONS GIVEN IN TABLE 7.1,BELOW.

TABLE 7.1

Duct Type		F	flex Duct		Smooth Duct					
Fan Rating (cfm @ 0.25"w.c.)	50	80	100	125	50	80	100	125		
·				Maximum Allo	wable Duct Length (ft,)				
Diameter (in)			Flex Duct		Smooth Duct					
3	Х	×	×	×	5	X	×	×		
4	70	3	×	×	105	35	5	×		
5	NL	70	35	20	NL	135	<i>8</i> 5	55		
6	NL	NL	125	95	NL	NL	NL	145		
7 and above	NL	NL	NL	NL	NL	NL	NL	NL		

This table assumes no elbow. Deduct 15 ft of allowable duct length for each turn, elbow, or fitting. Interpolation and extrapolation in Table 7.1 is not allowed. For fan ratings not listed, use

the next higher value. This table is not applicable for fan ratings > 125cfm. NL = no limit on duct length of this size.

X = not allowed, any length of duct of this size with assumed turns and fittings will exceed the rated pressured drop (0.25 in w.g.)

Note: water gauge(w.g). is the same as water column(w.c.)

WHOLE UNIT VENTILATION CALCULATION (ASHRAE 62.2) CONTINUOUSLY

	<u>′</u> 				
LOCATION	PLAN I				
FLOOR AREA (SQFT)	793				
NO. OF BEDROOMS	2				
VENTILATION RATE (CFM) = 0.03(SQFT)+7.5(BEDROOMS+I)	46.3				
DESIGNED VENTILATION (CFM)	60				

REVISIONS

NO. DATE DESCRIPTION





EN FAKM

MECHANICAL HYAC PLAN - MANUFACTURED HOMES

DRAWN
GMEP
CHECKED
GMEP
DATE
08/04/23
SCALE
AS NOTED
JOB NO.
23-598
SHEET

M-4.0

SCOPE OF WORK

NEW HOUSING WITH NEW PLUMBING, AND NEW BARN WITH NEW RESTROOM AND SUPPORTING PLUMBING.

NOTE: CONTRACTOR IS TO VERIFY EXISTING CONDITIONS BEFORE BID.



KEY PLAN

SCALE: NONE

	TYPICAL WATER CALCULATIONS		
STRE	ET PRESSURE*: 65 MIN. / 75 MAX.		
PRES	SSURE CALCULATION	UNIT	VALUE
3.	IO FT STATIC LOSS	PSI	4.3
4.	MIN. PRESSURE REQUIRED	PSI	20.0
	TOTAL LOSSES	PSI	24.3
5.	MIN. STREET PRESSURE	PSI	65.0
7.	PRESSURE AVAILABLE FOR FRICTION	PSI	40.7
8.	ACTUAL LENGTH OF SYSTEM	FT	458
9.	DEVELOPED LENGTH (130% OF ITEM 8)	FT	595.4
10.	AVERAGE PRESSURE DROP	PSI/100FT	6.8

FIXTURE SCHEDULE REMARKS ITEM DESCRIPTION MAKE/MODEL 1.28 GPF. VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE MATER CLOSET, TANK TYPE KOHLER OR EQUAL 1/2" SPECIFICATION BEFORE PURCHASING FIXTURE 1.28 GPF. VERIFY W OWNER OR ARCHITECT FOR EXACT FIXTURE <u>MC-2</u> WATER CLOSET, TANK TYPE KOHLER OR EQUAL 3" | 2" | 1/2" SPECIFICATION BEFORE PURCHASING FIXTURE LAVATORY KOHLER OR EQUAL I-I/2" | 2" | I-I/2" | I/2" | I/2" | I.2 GPM FAUCET. VERIFY SELECTION W/ ARCH & OWNER. LAVATORY I-I/2" | 2" | I-I/2" | I/2" | I/2" | I.2 GPM FAUCET. VERIFY SELECTION W/ ARCH & OWNER. KOHLER OR EQUAL 2" | I-I/2" | I/2" | I/2" | I.8 GPM FAUCET. SELECTION TBD BY OWNER. KITCHEN SINK 2" I-I/2" I/2" VERIFY W OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE <u>TUB-I</u> BATHTUB TBD I-I/2" <u> W/D-I</u> 2" | 1-1/2" | 1/2" | SELECTION TBD BY OWNER. WASHER/DRYER TBD <u>DW-1</u> TBD DISHWASHER - | - | 1/2" | SELECTION TBD BY OWNER. HOSE BIBB TBD 3/4" | - SELECTION TBD BY OWNER. PROVIDE ANTI-SIPHON DEVICE. CHRONOMITE SR20L 120V 2400W I PHASE OR EQUAL. VERIFY W CHRONOMITE SR2OL INSTA-HOT WATER HEATER 3/4" 3/4" OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE OR EQUAL PURCHASING FIXTURE

HYBRID WATER HEATER SCHEDULE

*PLUMBING FIXTURES MUST COMPLY WITH GREEN BUILDING STANDARDS

ITEM NO.	MANUFACTURER	MAKE/MODEL	CAPACITY	ENERGY FACTOR (EFFICIENCY)	ELEC DATA	UEF IST HOUR RATING (GPH)	SET POINT TEMPERATURE	DIMENSIONS	REMARKS
<u>MH-I</u>	RHEEM OR EQUAL	PRO H40 T2 RH310BM	36 GALLONS	3.5	4.5 KM 208/240V IPHASE 30AMP	60	120° F	62.5"H (78.9"H W/DUCT) X 20.25"%	REFER TO WATER HEATER DETAIL.

FOR VELOCITY OF IOFPS (CW) AND SFPS(HW); P	RESSURE LOSS PE	ER 100FT	IN PSI=7.0	
PIPE SIZE		MATER		MATER
	TANK FU	GPM	FU	GPM
1/2"	1	2.0	1	2.2
3/4"	6	5.1	6	5.7
"	ıз	10.3	15	11.2
I - I/4"	25	17.6	28	19.3
I-I/2"	48	27.6	54	30.3
2"	160	57.1	134	51.9

FOR VELOCITY OF BEPS	5 (CM) AND 51	-PS(HM); PRES	SURE LOSS P	ER 100FT IN F	251=7.0
PIPE SIZE	C	OLD WATE	HOT WATER		
FIFE SIZE	TANK FU	F.Y. FU	GPM	TANK FU	GPM
1/2"	2	=	2.5	2	2.5
3/4"	8	=	7	8	7

COPPER TYPE L PIPE SIZING CHART

1/2	0.5
1/2" 2 - 2.5 2	2.5
3/4" 8 - 7 8	7
l" 21 – 15 16	12
1 1/4" 46 10 27 28	19
1 1/2" 99 33 43 46	27
2" 254 132 76 119	48
2 1/2" 455 329 115 245	74
3" 719 666 165 406	105
3 1/2" 1091 1091 220 585	140
4" 1668 1668 290 840	185

BASED ON CHART A 105.1(1) OF APPENDIX A IN THE CALIFORNIA PLUMBING CODE(CPC2022)

GENERAL PLUMBING NOTES

- EXISTING CONDITIONS ARE BASED ON LIMITED FIELD VERIFICATION. CONTRACTOR SHALL ADJUST TO ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE TENANT.
- ALL CONTRACTORS SHALL REVIEW A COMPLETE SET OF CONSTRUCTION DOCUMENTS. PLUMBING CONTRACTOR SHOULD COORDINATE HIS WORK WITH ALL OTHER TRADES. THIS INCLUDES COORDINATING THE LOCATION AND SIZE OF ALL OPENINGS, LOCATIONS OF EQUIPMENT PAD, AND CHANGES OF
- CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH DEMOLITION RESPONSIBLE TO BIDDING AND START OF WORK. CONTRACTOR IS RESPONSIBLE ALL EXISTING AS REQUIRED FOR INSTALLATION/CONSTRUCTION OF NEW WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID. VERIFY LOCATION, ELEVATIONS, AND SIZES OF ALL EXISTING PLUMBING AND INFORM THE ARCHITECT OF ANY DISCREPANCIES. NO ADDITIONAL COMPENSATION WILL BE MADE FOR ANY EXTRAS DUE TO CONTRACTOR'S FAILURE TO VISIT THE JOBSITE AND/OR PREDETERMINE ALL EXISTING CONDITIONS BEFORE SUBMITTING HIS BID. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT FOR RESOLUTION. NO EXCEPTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD VERIFICATION OF ALL UTILITY RUNS, UNDERGROUND AND ABOVE GROUND PIPING AND/OR OTHER IMPROVEMENTS LOCATED ON THE PREMISES. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ALL COSTS RELATING TO THE RELOCATION OF, DAMAGE TO, REPAIR OF ANY EXISTING UTILITY RUNS AND/OR IMPROVEMENTS WHICH ARE DAMAGED AS A RESULT OF WORK IN OR AROUND THE PREMISES.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT SPECIFICATIONS, LOCATIONS AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES. NO EXCEPTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREPARE ACCURATE AS-BUILT DRAWINGS DURING CONSTRUCTION AND SUBMIT FOR APPROVAL UPON COMPLETION OF INSTALLATION.
- CONTRACTOR SHALL FINISH ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION AND SERVICES REQUIRED FOR COMPLETING THE WORK. ALL MATERIALS AND WORK SHALL COMPLY WITH APPLICABLE CODES AND REGULATIONS AND MEET THE APPROVAL OF STATE \$ LOCAL JURISDICTION.
- WATER HEATER SHALL BE CERTIFIED BY THE MANUFACTURER AND MUST COMPLY WITH THE EFFICIENCY STANDARDS OF THE CALIFORNIA ENERGY COMMISSION, 2019 EDITION.
- IO. ALL HOT WATER PIPING SHALL BE INSULATED WITH ARMSTRONG "ARMAFLEX" INSULATION PER SECTION 609.12 OF THE 2022 PLUMBING CODE AND TABLE 120.3-A, SECTION 120.3 OF THE 2022 CALIFORNIA ENERGY CODE.
- CONTRACTOR SHALL VERIFY WATER PRESSURE CONDITIONS AT THE PROJECT SITE. CONTRACTOR SHALL PROVIDE INSTALL A PRESSURE REGULATOR WHERE THE SUPPLY PRESSURE EXCEEDS 80 PSI.
- 12. ALL PIPING SHALL BE SUPPORTED AT INTERVAL NOT TO EXCEED THOSE SHOWN IN CPC TABLE 313.3
- 13. ALL POTABLE WATER OUTLETS WITH HOSE ATTACHMENTS, SUCH AS HOSE BIBS, AND MOP SINKS ARE TO BE PROVIDED WITH A BACKFLOW/ANTI-SIPHON DEVICE.
- 14. ALL CONCEALED PIPING SHALL BE INSTALLED PER CALIFORNIA PLUMBING CODE 2022. NO EXCEPTION.

- - 16. ALL FAUCETS SHALL COMPLY WITH CALIFORNIA PROPOSITION 65 AND SHALL BE CERTIFIED TO NSF STANDARD 61 SECTION 9 FOR DRINKING WATER
 - ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER SEC. 707.0 \$ 719.0 OF THE 2022 CALIFORNIA PLUMBING CODE.
- FLOOR DRAINS OR SIMILAR TRAPS DIRECTLY CONNECTED TO THE DRAINAGE SYSTEM AND SUBJECT TO INFREQUENT USE SHALL BE PROVIDED WITH AN APPROVED AUTOMATIC MEANS OF MAINTAINING THEIR WATER SEALS.

15. LAVATORIES IN PUBLIC RESTROOMS SHALL BE LIMITED TO 0.5GPM

- NEW WATER CLOSET AND ASSOCIATED FLUSHMETER VALVES SHALL BE NO MORE THAN 1.28 GALLONS PER FLUSH AND SHALL MEET THE AMERICAN
- 20. NEW URINALS AND ASSOCIATED FLUSHMETER VALVES SHALL BE NO MORE THAN 0.125 GALLONS PER FLUSH AND SHALL MEET THE AMERICAN STANDARDS INSTITUTE STANDARD Ali2.19.2 H&S CODE, SECTION 17921.3(B).

STANDARDS INSTITUTE STANDARD All2.19.2 H&S CODE, SECTION 17921.3(B).

- 21. ALL PLUMBING VENTS SHALL TERMINATE NOT LESS THAN TEN(IO) FEET FROM OR AT LEAST THREE (3) FEET ABOVE ANY DOOR, OPENING, FRESH AIR INTAKE OR VENT SHAFT.
- 22. SLOPE ALL CONDENSATE DRAIN LINES AT 1% AND SLOPE ALL SEWER PIPING MINIMUM OF 2%.
- 23. WASTE & VENT PIPING MATERIAL: SHALL BE ABS/PVC OR AB&I SERVICE WEIGHT CAST IRON NO-HUB SOIL PIPE AND FITTINGS WITH NO-HUB CLAMPS. MUST CONFORM TO CISPI STANDARD 301.04a & 310.04 AND CLEARLY MARKED WITH THE CAST IRON SOIL PIPE INSTITUTE TRADEMARK. MANUFACTURER'S NAME AND COUNTRY OF ORIGIN. ABS/PVC CAN BE USED IF ALLOWED BY LOCAL AUTHORITY HAVING JURISDICTION.
- 24. WRAP ALL IRON AND COPPER PIPE AND FITTINGS BELOW SLAB OR GRADE WITH 8 MIL POLYETHYLENE WRAP AND 6" MINIMUM ENVELOPE OF CLEAN SAND. ALL ROUND PIPE IN ACCORDANCE WITH NSI/AWWA STANDARD CIO5/A21.5-82.
- WATER PIPE SHALL BE TYPE "L" ABOVE GRADE, HARD DRAWN COPPER TUBING, WITH WROUGHT COPPER FITTINGS, SOLDER ALL JOINTS WITH LEAD-FREE SOLDER.
- 26. CONDENSATE DRAIN PIPE SHALL BE TYPE "DWV" HARD DRAWN COPPER TUBING WITH WROUGHT COPPER FITTINGS, 50-50 SOLDERED JOINTS. INSULATE ALL CONDENSATE DRAIN PIPING WITHIN BUILDING INTERIOR.
- 27. NEW OR REPAIRED PORTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO THE METHODS IN CPC 2022 609.10. NO
- 28. CONTRACTOR TO PROVIDE THERMOSTATIC MIXING VALVES FOR PUBLIC-USE LAVATORIES TO LIMIT TEMPERATURE TO A MAXIMUM OF 120 DEGREES FAHRENHEIT (2022 CPC 407.3).
- 29. THIS DOCUMENT IS NOT FOR BID OR CONSTRUCTION UNTIL THE PLAN HAS BEEN REVIEWED AND APPROVED BY ALL AUTHORITIES HAVING JURISDICTION AND THE PERMIT IS OBTAINED. NO COMPENSATION WILL BE MADE FOR ADDITIONAL WORK DUE TO THE VIOLATION OF THIS REQUIREMENT.
- 30. THIS PROJECT MUST COMPLY WITH THE CALIFORNIA PLUMBING CODE 2022.

PIPING SYMBOLS

SYMBOL	MEANING	SYMB <i>O</i> L	MEANING
	— DOMESTIC COLD WATER		FLOOR SINK
	DOMESTIC HOT WATER	\ominus	FLOOR CLEANOUT
	— DOMESTIC H.W. CIRCULATING	I 	MALL CLEANOUT
	SANITARY SEMER	Φ	FLOOR DRAIN
	- VENT PIPING	•==	GAS COCK
	STORM DRAIN PIPING	<u>TUB-I</u>	PLUMBING FIXTURE
	— GREASE WASTE		CONNECT TO EXISTING
	— GAS	\bowtie	SHUT-OFF VALVE
——————————————————————————————————————	CONDENSATE DRAIN	-	RECIRCULATION PUMP
		_	PIPE CAP
		- ->	PIPE ELBOW DOWN
		-0	PIPE ELBOW UP

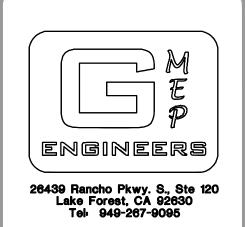
FIXTURE UNIT CALCULATIONS FOR BARN										
			DRAINAGE							
FIXTURE TYPE	atr	FIXTURE DEMAND	HOT DEMAND	TOTAL WATER DEMAND (WSFU)	TOTAL HOT WATER DEMAND	⊅FU	TOTAL			
MATER CLOSET, FLUSH TANK	ı	3.0	0.0	3.0	0.0	4	4			
LAVATORY	ı	1.0	1.0	1.0	1.0	1	I			
HOSE BIBB	ı	2.5	0.0	2.5	0.0	1	I			
TOTAL FIXTURE UNITS	6.5	1.0		6						
EQUIVALENT WATER DEMAND IN GPM				4	2					
REQUIRED MINIMUM PIPE SIZE				3/4"	1/2"		2"			

FIXTURE UNIT CALCULATIONS FOR MANUFACTURED HOUSES (3)

FIXTURE TYPE	atr	DOMESTIC WATER							DRAINAGE	
		COLD WATER FIXTURE UNITS (CWFU)	HOT WATER FIXTURE UNITS (HWFU)	75% COLD WATER FIXTURE DEMAND	75% HOT WATER FIXTURE DEMAND	TOTAL COLD WATER DEMAND (CWFU)	75% TOTAL COLD WATER DEMAND (CWFU)	75% TOTAL HOT WATER DEMAND (HWFU)	DRAINAGE FIXTURE UNITS (DFU)	TOTAL (DFU)
IATER CLOSET, TANK TYPE	2	2.5	0.0	-	0.0	5.0	5.0	0.0	3	6
SATHTUB	2	4.0	4.0	3.0	3.0	8.0	6.0	6.0	2	4
AVATORY	2	1.0	1.0	0.75	0.75	2.0	1.5	1.5	ı	2
PISHMASHER	1	1.5	1.5	-	1.5	1.5	0.0	1.5	0	0
LOTHES WASHER	I	4.0	4.0	3.0	3.0	4.0	3.0	3.0	3	3
ITCHEN SINK	I	1.5	1.5	1.125	1.125	1.5	1.125	1.125	2	2
OSE BIBB	I	2.5	0.0	-	0.0	2.5	2.5	0.0	0	0
OSE BIBB (EACH ADDITIONAL)	2	1.0	0.0	-	0.0	2.0	2.0	0.0	0	0
OTAL FIXTURE UNITS						24.5	19.125	13.125		17
QUIVALENT WATER DEMAND IN GPM						18	14	II		
EQUIRED MINIMUM PIPE SIZE						I-I/4"	I-I/4"	"		3"

NO. DATE DESCRIPTION

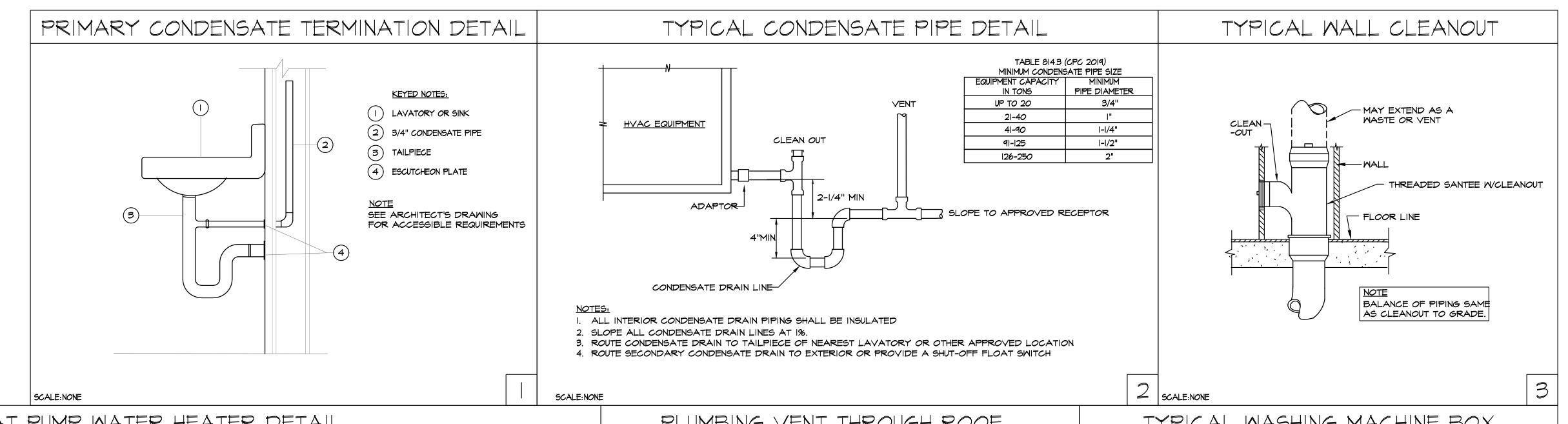


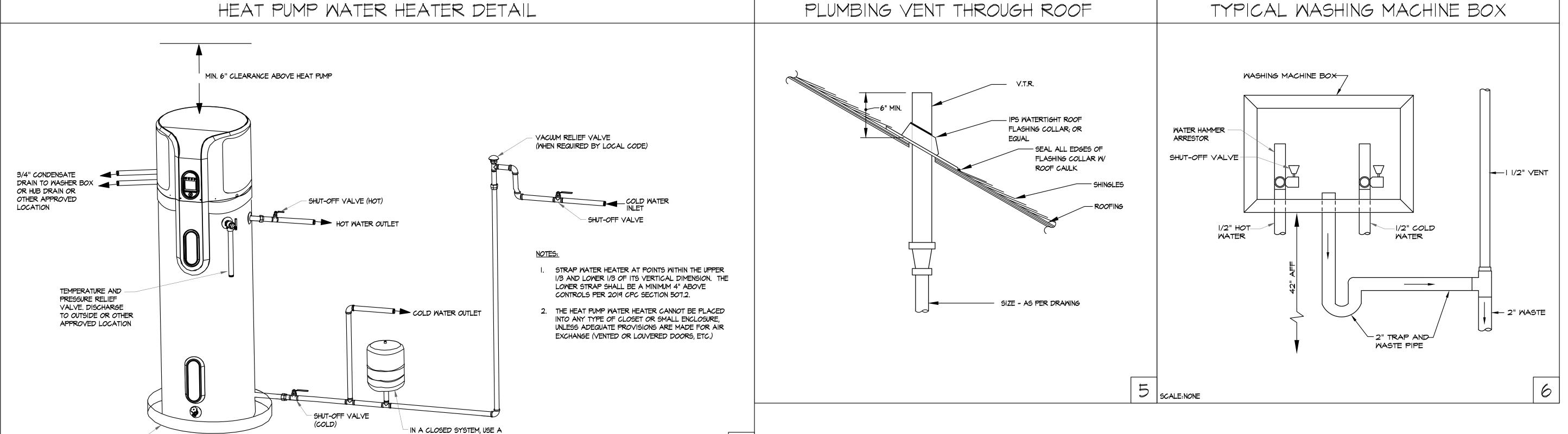


ARM

PLUMBING GENERAL I

08/04/23 SCALE





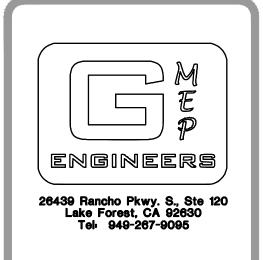
DRAIN PAN -

SCALE: NONE

THERMAL EXPANSION TANK.

REVISIONS
NO. DATE DESCRIPTION



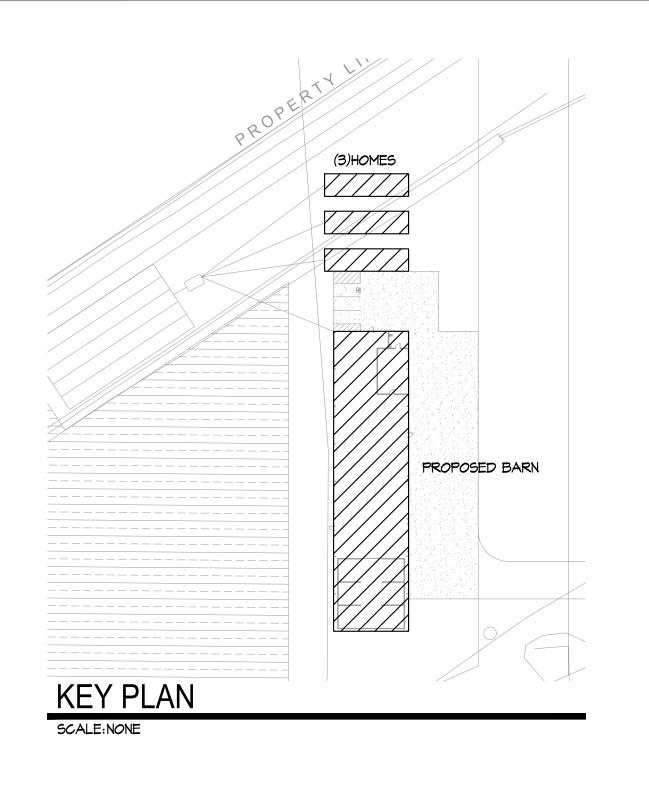


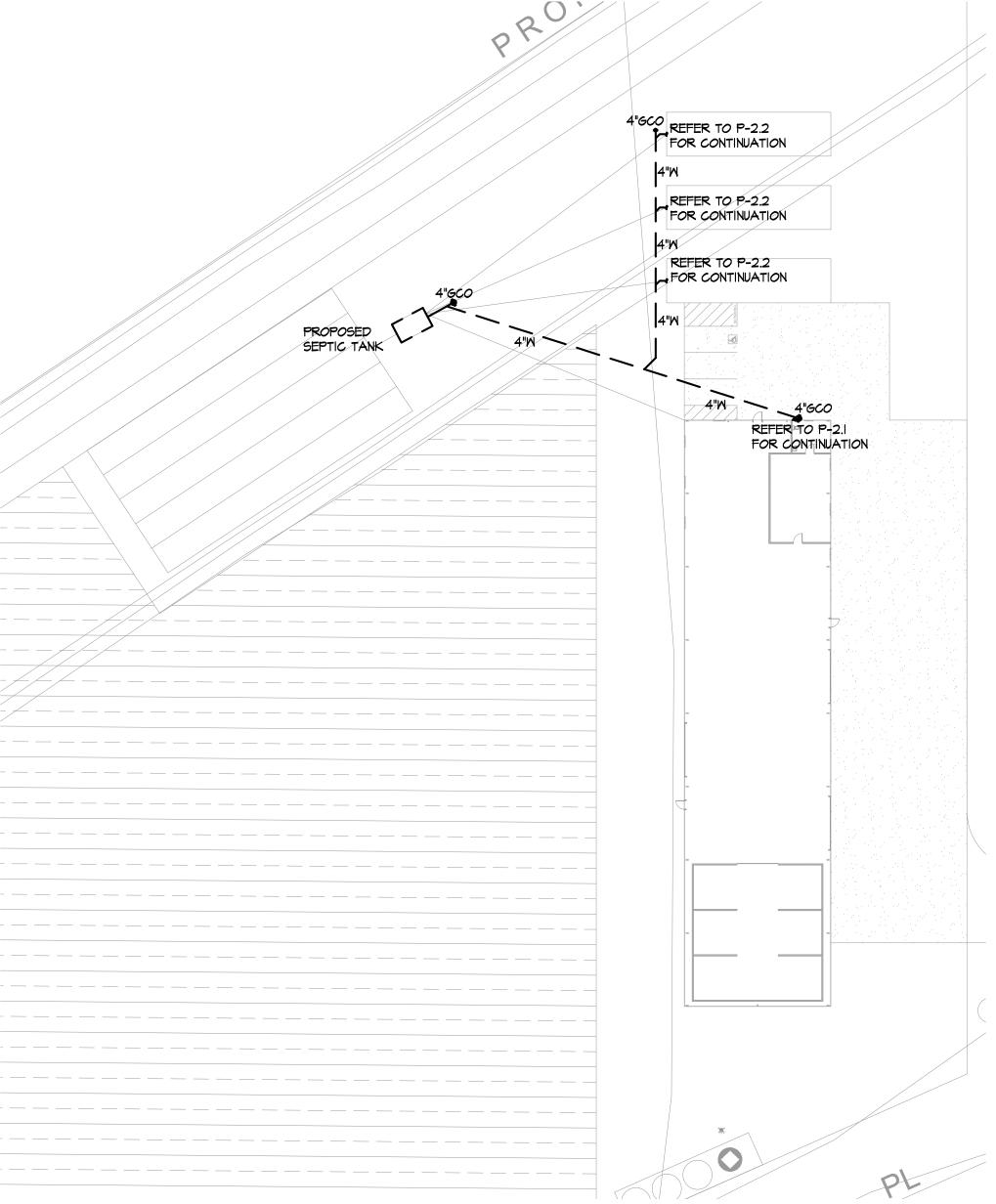
CHEN FARM
2740 FERGUSON ROAD

PLUMBING DETAILS

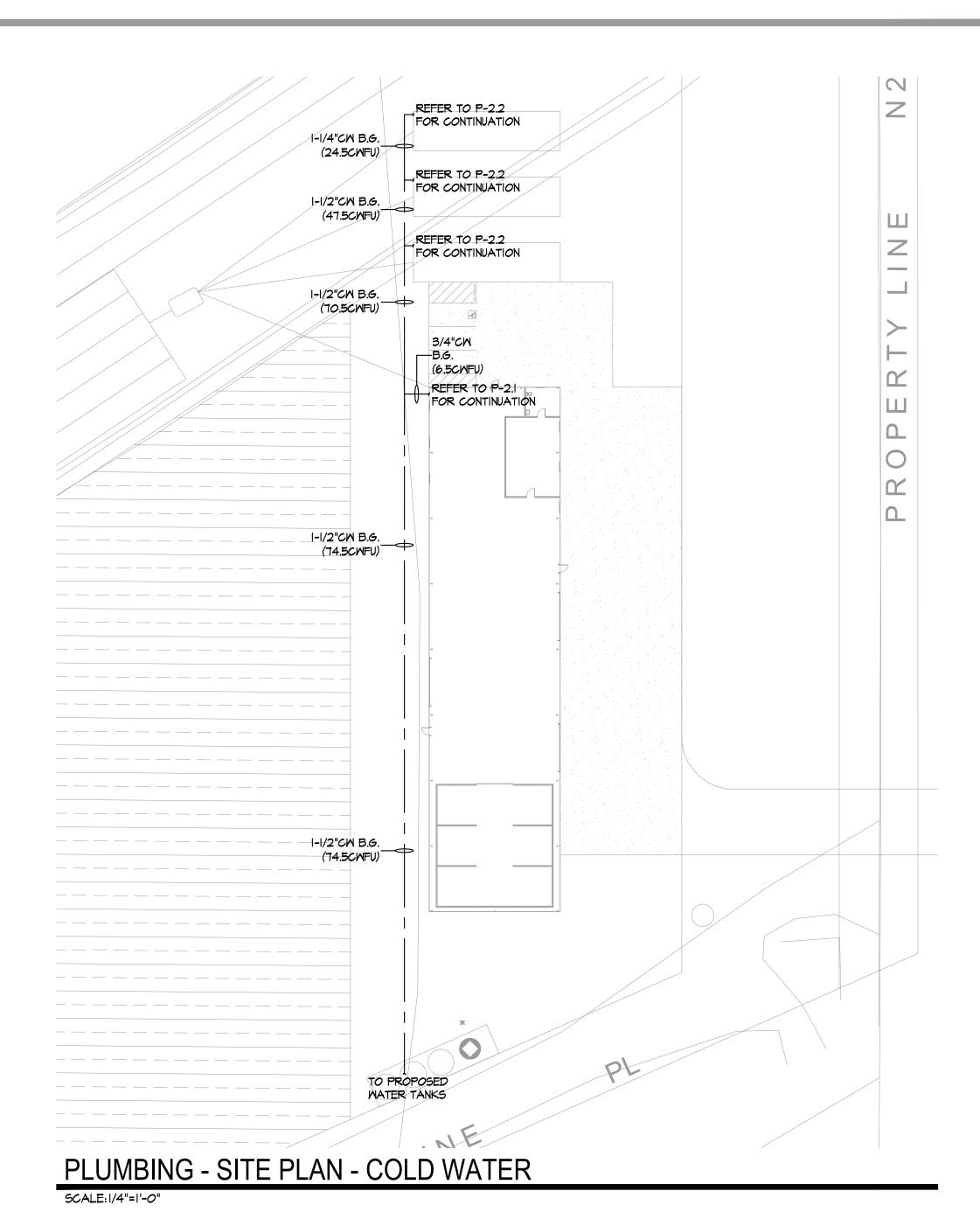
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08/04/23
SCALE
AS NOTED
JOB NO.
23-598
SHEET

P-1.1



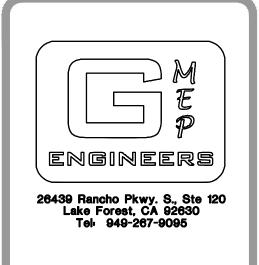


PLUMBING - SITE PLAN - WASTE



REVISIONS
NO. DATE DESCRIPTION





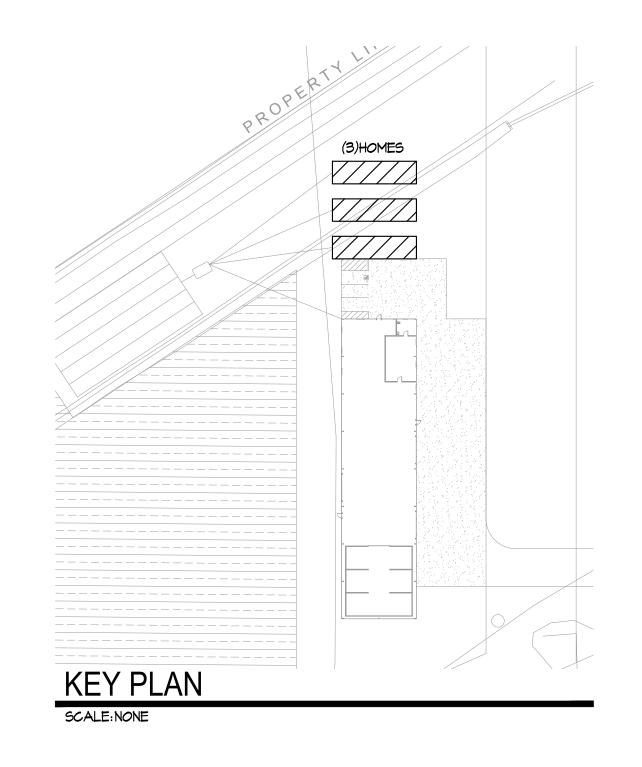
CHEN FARM
2740 FERGUSON ROAD

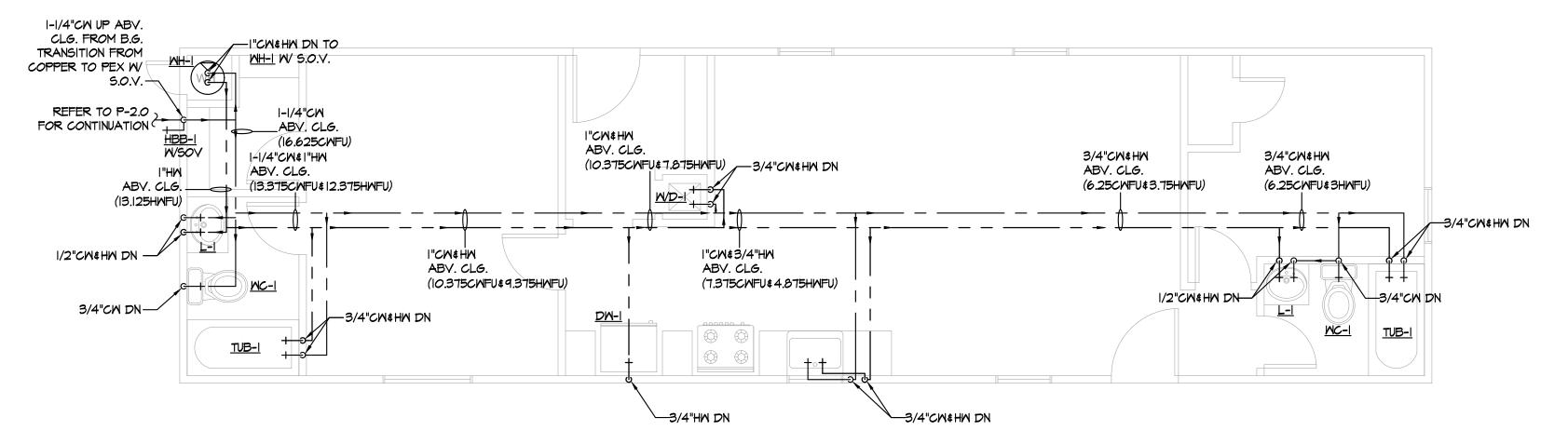
PROJECT NAME

PLUMBING - SITE PLAN SOLD WATER

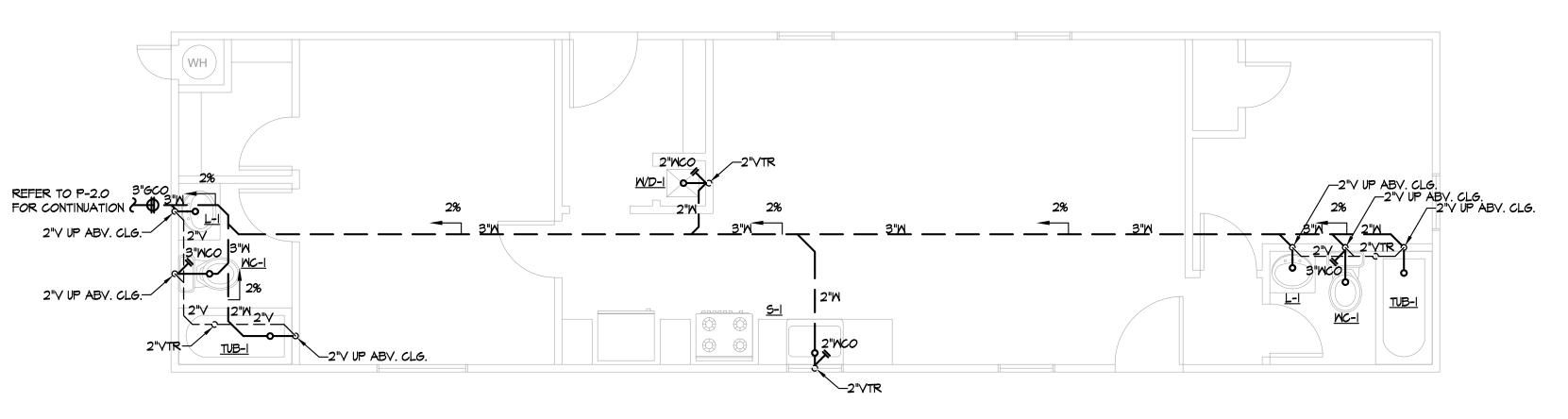
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08/04/23
SCALE
AS NOTED
JOB NO.
23-598
SHEET

P-2.0





PLUMBING - MANUFACTURED HOME (3) - COLD/HOT WATER



PLUMBING - MANUFACTURED HOME (3) - WASTE & VENT

|/4"=|'-0"

REVISIONS

NO. DATE DESCRIPTION





HEN FARM

2740 FERGUSO GILROY, CA

PROJECT NAME

-UMBING - HOMES OLD/HOT WATER ASTE & VENT

DRAWN
GMEP
CHECKED
GMEP
DATE
08/04/23
SCALE
AS NOTED
JOB NO.
23-598
SHEET

P-2.2