TULARE COUNTY
RESOURCE MANAGEMENT AGENCY
BUILDING PERMIT APPLICATION

ACTIVITY NO. A1400751 PROJECT NO. _____ INSPECTOR AREA ___

APN # 068 360 009 000 SCHOOL ACTIVITY NO _____

PROPERTY OWNER The Learned Family Trust (Dave Learned) PHONE NO 361-500-5450

PROPERTY OWNER'S E- MAIL ADDRESS learned@cableone.net

MAILING ADDRESS 40846 Sierra Dr. CITY/TOWN Three Rivers ZIPCODE 93271

SITE ADDRESS 40840 Sierra Dr. CITY/TOWN Three Rivers ZIPCODE 93271

CONTRACTOR, ARCHITECT, ENGINEER OR DRAFTPERSON Gary Kerr ~~630-290-9823~~ LICENSE NO. C19693

ADDRESS 23917 Bennington Dr. Valencia, CA PHONE NO 630-~~29~~290-9823 E-MAIL gkarchitect@hotmail.com

WORK TO DO AS INDICATED BELOW

New interior finishes, new hood, exhaust fan, and make-up air. New conduit and wiring for power and lighting. New plumbing.

Classification _____ NEW _____ ADD _____ ALT X VALUATION $ 40,000

MOBILE HOME HUD # _____ 433-A FORM NEEDED YES ___ NO ___ ☒ COMMUNITY WATER ☐ INDIVIDUAL WELL

MOBILE HOME MOVING CO. _____ ☐ PUBLIC SEWER ☒ SEPTIC SYSTEM

MOBILE HOME SIZE _____ YEAR _____ PURCHASE PRICE $ _____ # BDRM(S) _____ AWNING(S) _____

PLEASE NOTE THAT ALL BUILDING PERMITS MUST COMPLY WITH ALL FEDERAL, STATE, COUNTY AND CITY (IF APPLICABLE) ORDINANCES, STATUTES, AND LAWS.

BUILDING

ELECTRIC

Service:

_____ _____amp service

_____ Circuits

_____ Sub Panels

_____ _____Motor

PLUMBING

_____ Septic tank _____Each fixture

_____ H. W . H. _____Gas line

_____ Water line _____Drain

_____ Sewer line _____Re pipe

MECHANICAL

_____ HVAC Residential New _____HVAC Commercial New

_____HVAC Residential replacement _____HVAC Commercial replacement

_____Gas heat _____Wood stove

_____Vent fan _____Hood Commercial

_____ Evaporative cooler _____Ducts

SQUARE FOOTAGE _____ STORIES _____

OCCUPANCY _____ TYPE _____

PLAN CHECK BY _____ **DATE PLAN CHECK** _____ **TIME** _____

ROUTING	YES	NO
HEALTH		
FIRE		
SCHOOL FEES		
PUBLIC WORKS		
FLOOD		
ECON DEVELOPMENT		
CODE COMPLIANCE		
EMPLOYEE HOUSING		
DAIRY		

PLANNING	YES	NO
Entered in APN Book		
Entered in Computer		
New Address		
U A B		
U D B		
MIN LOT SIZE (AC/SQ)		

SECTION	TOWNSHIP	RANGE
2Ce	17S	

TAX RATE AREA _____

Community/City _____ School District _____

ZONING C-2-SC

REQUIRED SETBACKS

Front Yard _____ Road Setback _____

Rear Yard _____ Side Yard (Street) _____

Side Yard _____ Max Height _____

ACCESSORY STRUCTURES

Distance from lot line _____ Max Height _____

Percent coverage of rear yard _____

PLANNING APPROVAL BY _____ **DATE APPROVED** _____ **TIME** _____

1. PLAN CHECK FEE $ _____
2. HEALTH SERVICES REVIEW FEE _____
3. FIRE DEPARTMENT REVIEW FEE _____
4. PUBLIC WORKS REVIEW FEE _____
5. GENERAL PLAN AMEND FEE _____
6. UAB/UDB FEE _____

APPLICANT'S NAME Matt Ackerman

COMPANY NAME Basra Ackerman Enterprises, Inc.

APPLICANT'S SIGNATURE Matt Ackerman

E-MAIL ADDRESS M.Ackerman65@gmail.com

PHONE NUMBER 559-679-7747 DATE 3-4-14

TOTAL FOR THIS PERMIT $ _____ INITIALIZE BY RB DATE 3-18-14 TIME 10:15 am

EH OR VIOLATION# _____ **APPROVAL BY** _____ **DATE** _____ **2XFEE YES** _____ **NO** _____

NOTES: _____

BP-33 (9/13)

40840 SIERRA DRIVE THREE RIVERS, CALIFORNIA 93271

SHEET INDEX

T1	TITLE SHEET	P1	PLUMBING SPECIFICATIONS, FIXTURE SCHEDULE
SD1	ACCESSIBLE PARKING	P2	PLUMBING SUPPLY PLAN
SD2	SITE IMPROVEMENTS	P3	PLUMBING WASTE PLAN
SD3	SURVEY	E1	SINGLE LINE DIAGRAM, PANEL BOARD SCHEDULES
A1	FLOOR PLAN	E2	POWER PLAN
A2	EQUIPMENT SCHEDULE	E3	LIGHTING PLAN
A3	ACCESSIBILITY REQUIREMENTS	E4-6	TITLE 24 CALCS- LIGHTING
A4	CEILING PLAN	GS1	SPECIFICATIONS
M1	MECHANICAL SPEC'S, DETAILS	GS2	STRUCTURAL SPECIFICATIONS
M2	MECHANICAL PLAN		

SCOPE OF WORK

- NEW INTERIOR FINISHES
- NEW HOOD, EXHAUST FAN, AND MAKE-UP AIR
- NEW CONDUIT AND WIRING FOR POWER AND LIGHTING
- NEW PLUMBING
- NEW TRASH ENCLOSURE

CONTACT

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gkarchitect@hotmail.com
www.architectkerr.com

INTERIOR FINISHES

INTERIOR WALL AND CEILING FINISHES TO COMPLY WITH CBC TABLE 803.9 (OCCUPANCY GROUP B, NON-SPRINKLERED):

EXIT ENCLOSURES AND EXIT PASSAGEWAYS:	CLASS B
CORRIDORS:	CLASS C
ROOMS AND ENCLOSED SPACES:	CLASS C

HEALTH REQUIREMENTS MATRIX

NO.	ITEM	REQUIREMENT	SHEET	LOCATION OF ITEM/REMARKS
1	EXTERIOR & RESTROOM DOORS	ALL MUST BE SELF-CLOSING	A1	DOOR NOTES/REQUIREMENTS
2	WINDOWS	ALL MUST BE FIXED	A1	WALL LEGEND
3	AIR CURTAIN (FULL WIDTH OF DOOR)	DOOR ACTIVATED/1600 FPM	M1	EXHAUST FAN/AIR CURTAIN SCHEDULE
4	SAFE	ON APPROVED 6" LEGS OR 4" COVED CONC.	A1	FURNITURE AND EQUIPMENT KEY ITEM (23)
5	3 COMP SINK/FLOOR DRAIN	LEGAL AIR GAP TO FLOOR SINK	P3	PLUMBING WASTE PLAN
6	HOOD AND MAKEUP AIR	BOTH ITEMS TO BE INTERLOCKED	M1	MAKEUP AIR REQUIREMENTS NOTE #1
7	DRY FOOD STORAGE SHELVING	18 LINEAL FEET MINIMUM REQUIRED	A1,A2	18 LF PROVIDED
9	EMPLOYEE LOCKERS	MUST BE ON 6" LEGS OR WALL MOUNTED	A1	KEY TO PLAN ITEM (LKR)
10	MOP SINK	APPROVED BACKFLOW MUST BE PROVIDED	P1	PLUMBING FIXTURE SCHEDULE ITEM (SK6)
11	MOP/BROOM HANGER	PROVIDE MOP/BROOM HANGER	P1	PLUMBING FIXTURE SCHEDULE ITEM (SK6)

BUILDING DATA

OCCUPANCY GROUP:	B	OCCUPANTS (LOAD FACTOR 15) 547 SF =	36
EXIST. CONSTRUCTION TYPE:	VB, NON-SPRINKLED	OCCUPANTS (LOAD FACTOR 100) 567 SF =	6
TENANT IMPROVEMENT AREA:	1114 SF	TOTAL OCCUPANTS =	42
		EXITS REQUIRED:	1
		EXITS PROVIDED:	2

WARRANTY LIMITATION

THE ARCHITECT AND HIS CONSULTANTS DO NOT WARRANT OR GUARANTEE THE ACCURACY AND COMPLETENESS OF THE WORK PRODUCT HEREIN BEYOND A REASONABLE DILIGENCE. IF ANY MISTAKES, OMISSIONS, OR DISCREPANCIES ARE FOUND WITHIN THE WORK PRODUCT, THE ARCHITECT SHALL BE PROMPTLY NOTIFIED SO THAT HE MAY HAVE THE OPPORTUNITY TO TAKE WHATEVER STEPS NECESSARY TO RESOLVE THEM. FAILURE TO PROMPTLY NOTIFY THE ARCHITECT OF SUCH CONDITIONS SHALL ABSOLVE THE ARCHITECT FROM ANY RESPONSIBILITY FOR THE CONSEQUENCES OF SUCH FAILURE. ACTIONS TAKEN WITHOUT THE KNOWLEDGE AND CONSENT OF THE ARCHITECT, OR IN CONTRADICTION TO THE ARCHITECT'S WORK PRODUCT OR RECOMMENDATIONS SHALL BECOME THE RESPONSIBILITY OF THE PARTIES RESPONSIBLE FOR TAKING SUCH ACTION.

LICENSED ARCHITECT
★ GARY ARTHUR KERR ★
C19693
RENEWAL 4/30/2015
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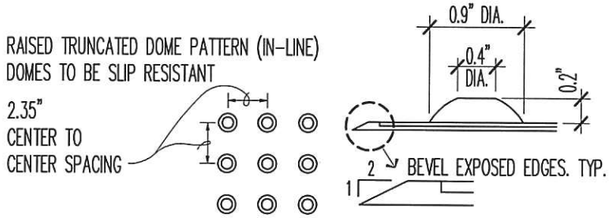
SUBWAY
STORE #62365

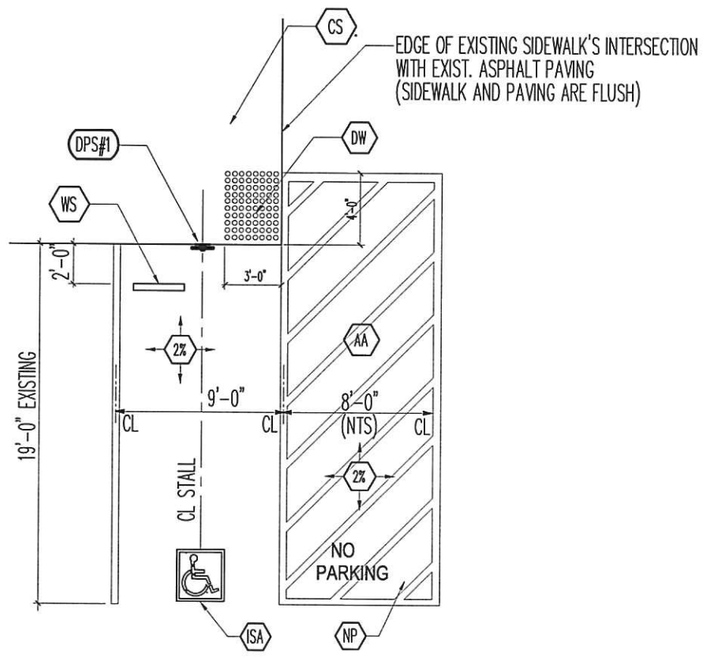
40840 SIERRA DRIVE
THREE RIVERS, CA 93271
PC 02/26/14

T1



DETECTABLE WARNING SHALL CONTRAST VISUALLY WITH ADJOINING SURFACE (EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.)

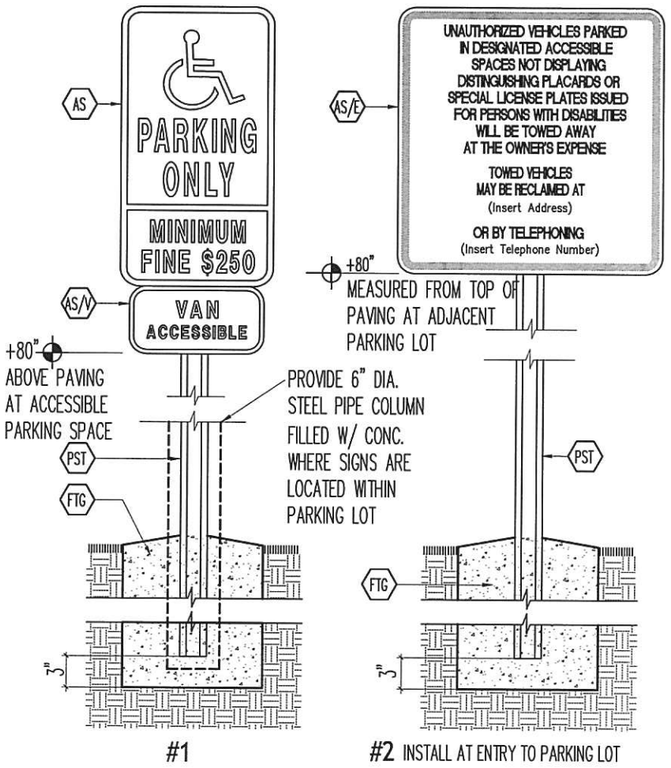
DW | DETECTABLE WARNING NOT TO SCALE



AP | ACCESSIBLE PARKING NOT TO SCALE

KEY TO PLAN/DETAILS

- 2% — 2% MAX. SLOPE EACH WAY AT LANDINGS, AT ACCESSIBLE PARKING STALL AND AT ADJACENT LOADING AISLE.
- AA — ACCESS AISLE LINES PAINTED ON PAVEMENT. 4" WIDE BOUNDARY, COLOR: BLUE 4" WIDE HATCHED LINES WITHIN BOUNDARY, INTERIOR HATCHING AT 36" O/C COLOR: BLUE.
- AS — ACCESSIBLE SIGN # R-99C (CA) CENTERED ON STALL. CALIFORNIA DISABLED PARKING SIGN, MINIMUM FINE $250
- AS/E — ACCESSIBLE SIGN # R-R100B (CA): ENFORCEMENT/TOWING SIGN. SEE SHEET SD2 FOR LOCATIONS. SIGN SHALL INCLUDE THE ADDRESS WHERE THE TOWED VEHICLE MAY BE RECLAIMED AND THE TELEPHONE NUMBER OF THE LOCAL TRAFFIC LAW ENFORCEMENT AGENCY.
- AS/V — ACCESSIBLE SIGN # R7-8B (CA) CENTERED ON STALL. CALIFORNIA DISABLED PARKING SIGN, VAN ACCESSIBLE.
- CC — CONCRETE CURB- EXISTING U.N.O.
- CS — CONCRETE SIDEWALK- EXISTING
- DW — NEW DETECTABLE WARNING SEE DETAIL DW/-
- FTG — CONCRETE FOOTING FOR SIGN POST: 12" DIA. X 18" DEEP
- ISA — INTERNATIONAL SYMBOL OF ACCESSIBILITY 36" X 36" (OUTSIDE BORDER DIMENSIONS.) PAINT BORDER AND SYMBOL WHITE, PAINT BACKGROUND DARK BLUE.
- NP — "NO PARKING" LETTERS PAINTED ON PAVEMENT, 12" HIGH, COLOR: WHITE
- PCOL — PIPE COLUMN, 4" DIA. STEEL. FILL WITH CONCRETE, PAINT STEEL AND CONCRETE TOP BLUE TO MATCH COLOR OF DISABLED PARKING ICON'S BACKGROUND
- PST — POST FOR SIGN: GRAINGER 6T437 OR EQUAL. GALV. STEEL U CHANNEL
- WS — 4' LONG PRECAST CONCRETE WHEELSTOP- REMOVE EXISTING/REPLACE W/ NEW



DPS | DISABLED PARKING SIGNS NOT TO SCALE

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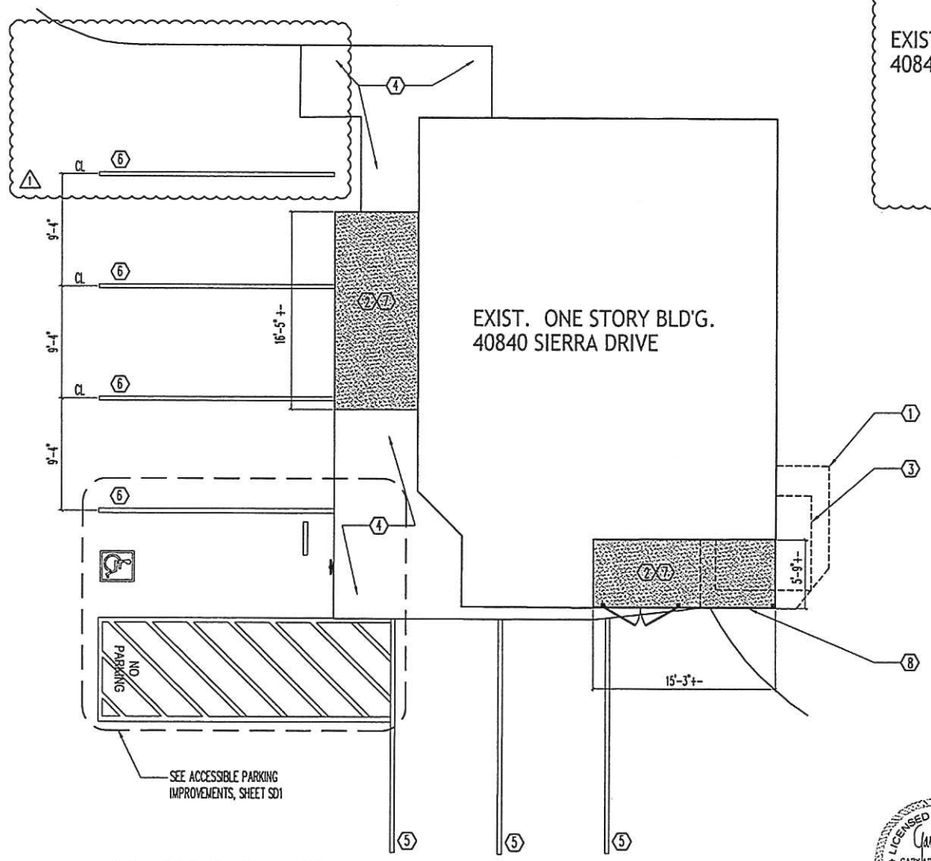
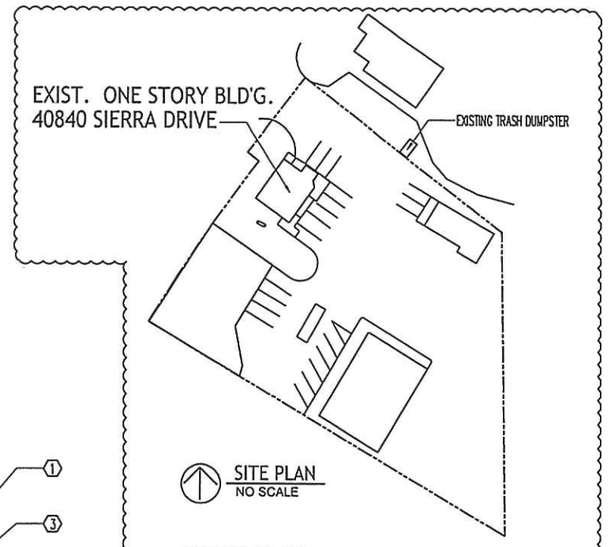
SD1



PARTIAL SITE PLAN
1/8"=1'-0"



SITE PLAN
NO SCALE

KEY TO PLAN

1. REMOVE EXISTING WOOD FENCE
2. REMOVE EXISTING LANDSCAPING AT AREAS OF NEW SLABS.
3. REMOVE EXISTING CONCRETE SLAB
4. EXISTING CONCRETE SLAB TO REMAIN
5. EXISTING STRIPING TO REMAIN
6. NEW STRIPING– PROVIDE NEW SEAL COAT OVER EXISTING PAVING PRIOR TO APPLICATION OF NEW STRIPING
7. NOT USED
8. NEW 7' CEDAR FENCE W/ (2) 3' WIDE GATES, PAINT FENCE AND GATES TO MATCH EXISTING BUILDING COLORS.

⚠1 4/4/14

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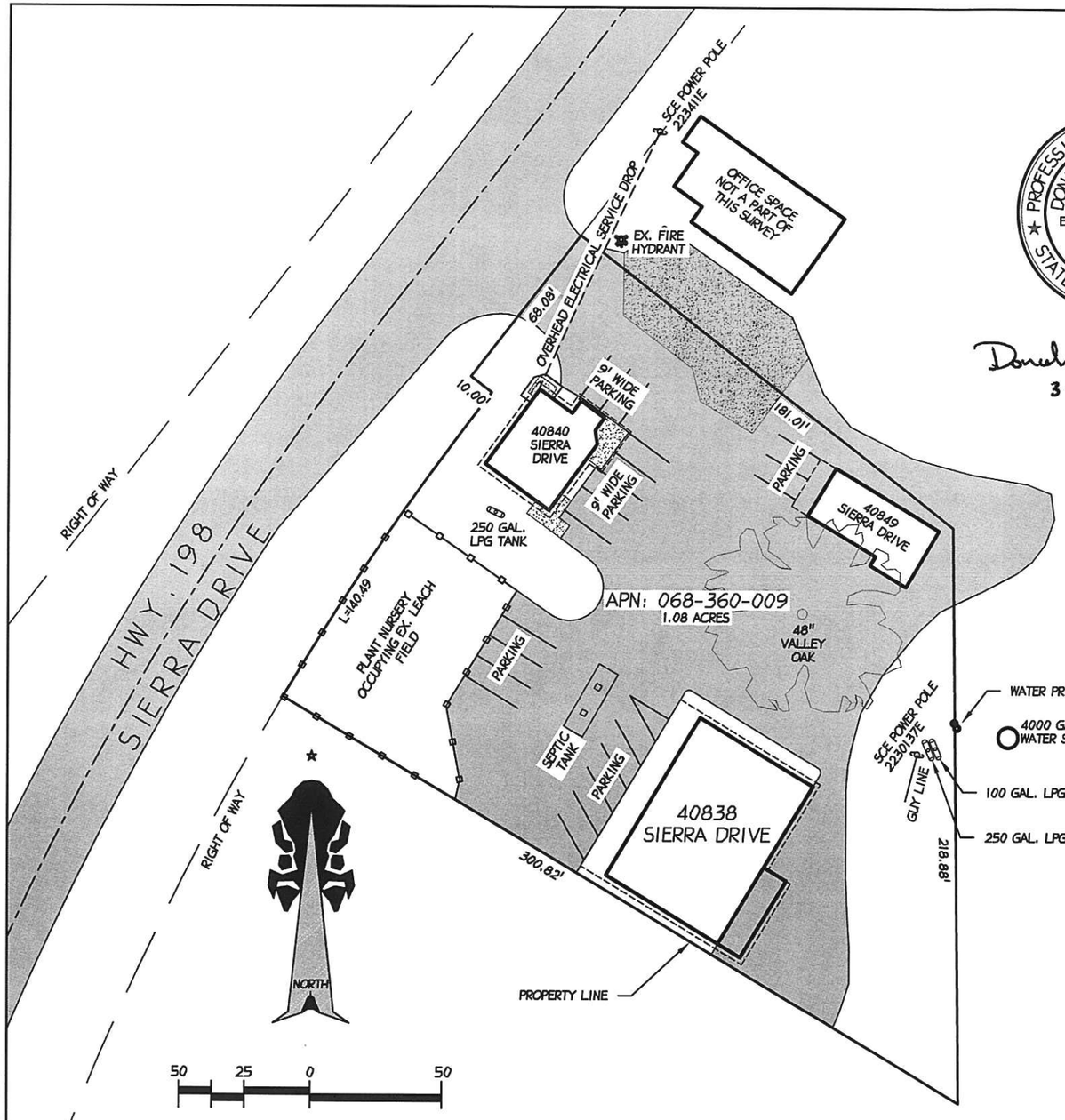
SD2

LIMITED TOPOGRAPHIC SURVEY



PROFESSIONAL LAND SURVEYOR
DONALD M. STIVERS
EXPIRES 12-31-2014
NO. 6408
STATE OF CALIFORNIA

Donald M. Stivers
3-13-2014

SURVEYOR

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SITE ADDRESS

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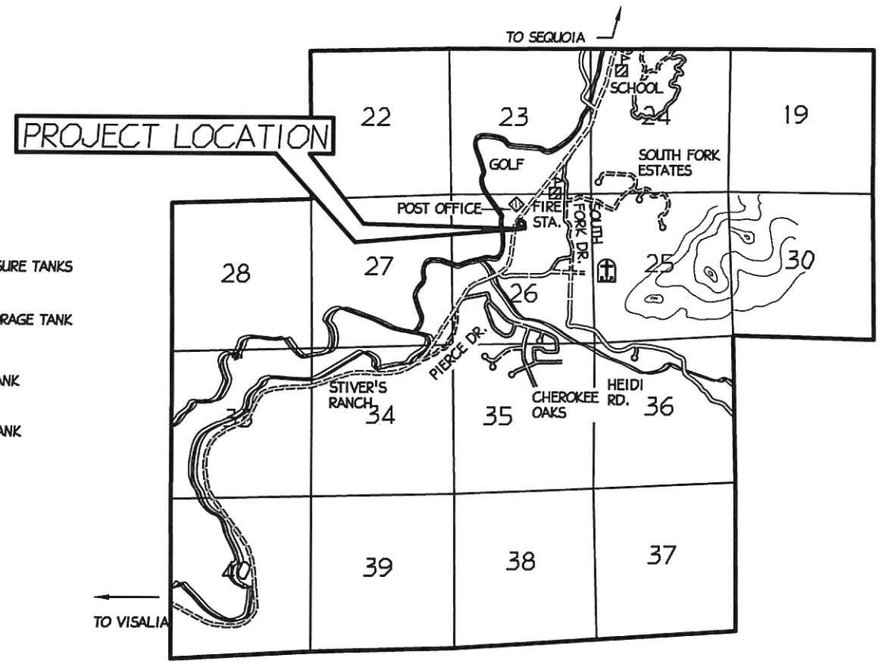
APN:

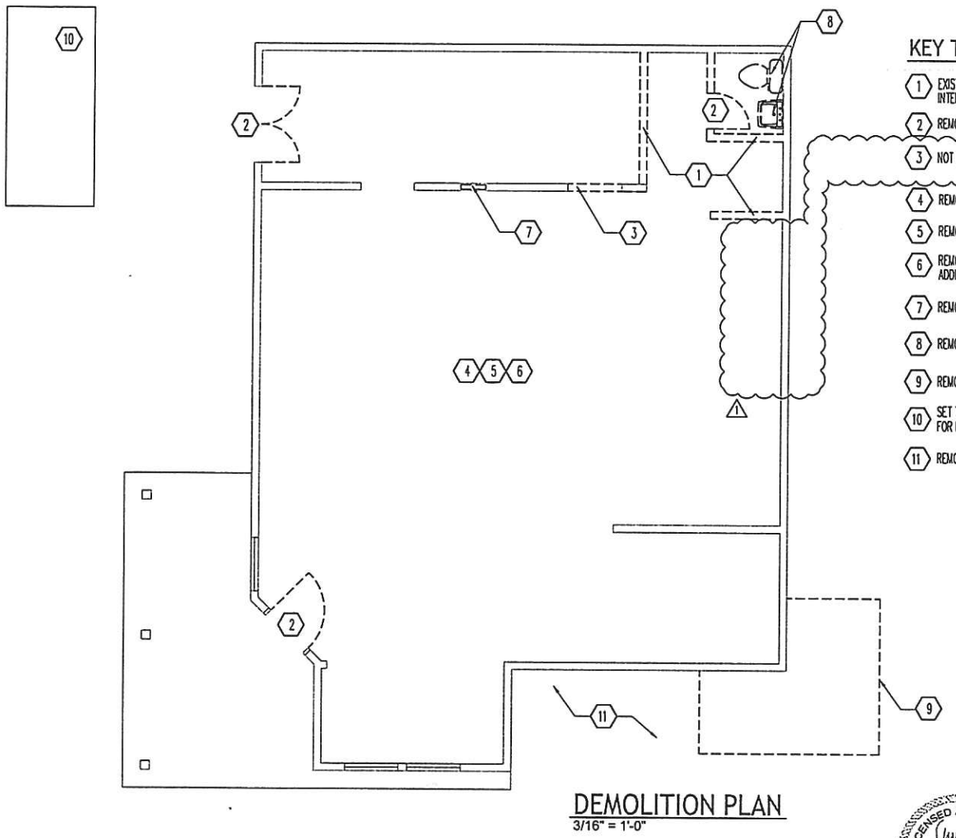
068-360-009



VICINITY MAP
1"=1 MILE

ONE SHEET ONLY

\\DSLSWHS\2012 PROJECTS\14214 GARY KERR\PRODUCTION DRAWINGS\KERR SITE MAP.DWG



DEMOLITION PLAN
3/16" = 1'-0"

KEY TO DEMOLITION PLAN

1. EXIST. NON-STRUCTURAL INTERIOR WALL TO BE REMOVED
2. REMOVE EXISTING DOOR(S)
3. NOT USED
4. REMOVE ALL EXISTING FLOORING MATERIALS
5. REMOVE ALL EXISTING LIGHT FIXTURES
6. REMOVE ALL ROMEX WIRING, SEE ELECTRICAL PLANS FOR ADDITIONAL REQUIREMENTS
7. REMOVE EXISTING ELECTRICAL PANEL AND ALL ROMEX WIRING
8. REMOVE EXISTING PLUMBING FIXTURES, CAP WATER & WASTE LINES
9. REMOVE EXISTING FENCE AND CONCRETE PADS.
10. SET TEMPORARY DUMPSTER AT REAR OF SPACE FOR DURATION OF PROJECT.
11. REMOVE EXIST. LANDSCAPING

DEMO REQUIREMENTS

GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL MAINTAIN ALL NECESSARY INSURANCE COVERAGE AS REQUIRED BY, BUT NOT LIMITED TO: OWNER, SUBWAY, LANDLORD, MUNICIPAL, STATE AND FEDERAL ENTITIES.

GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL MAINTAIN CURRENT LICENSES AS REQUIRED BY MUNICIPAL, STATE AND FEDERAL ENTITIES WITH JURISDICTION OVER THE PROJECT.

GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL PERFORM WORK IN COMPLIANCE WITH ALL REQUIREMENTS, LAWS AND ORDINANCES OF MUNICIPAL, STATE AND FEDERAL ENTITIES WITH JURISDICTION OVER THE PROJECT.

GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL REPAIR, AT THEIR OWN EXPENSE, ANY EXISTING ITEM, SURFACE, MATERIAL, FINISH, ETC. TO REMAIN THAT IS DAMAGED DURING THE EXECUTION OF THE WORK.

GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL COORDINATE THE WORK OF ALL TRADES FOR EFFICIENT AND TIMELY EXECUTION OF THE WORK.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, SUPERVISION AND SAFETY PROGRAMS EMPLOYED DURING THE PROJECT.

GENERAL CONTRACTOR SHALL MAINTAIN BARRICADES, SECURITY PARTITIONS, ETC. AS REQUIRED TO PREVENT UNATHORIZED ENTRY TO THE PROJECT.

GENERAL CONTRACTOR SHALL MAINTAIN DUST BARRIERS AS NECESSARY TO ISOLATE THE AREA OF WORK FROM SURROUNDING NEIGHBORS AND ADJACENT EXTERIOR AREAS.

GENERAL CONTRACTOR SHALL MAINTAIN THE PREMISES DURING THE EXECUTION OF THE WORK, KEEPING THE PROJECT SITE FREE FROM THE ACCUMULATION OF WASTE MATERIALS AND RUBBISH. ALL WASTE MATERIALS AND RUBBISH SHALL BE DISPOSED OF IN COMPLIANCE WITH MUNICAPAL, STATE AND FEDERAL REGULATIONS.

WORK SHALL BE PERFORMED IN A MANNER AND DURING TIMES THAT MINIMIZE DISRUPTIONS TO THE BUSINESS OPERATIONS OF SURROUNDING NEIGHBORS.

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1 4/1/14

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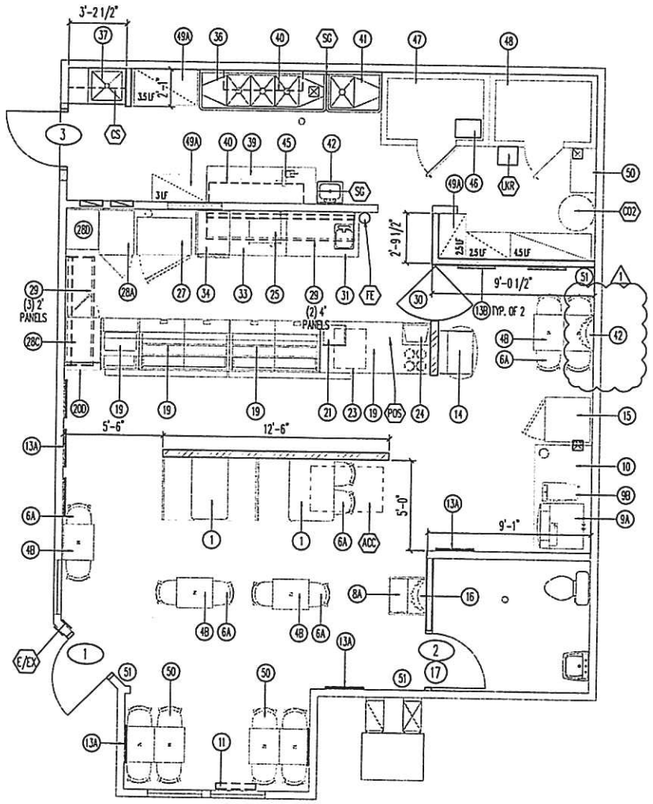
A0



FLOOR PLAN

3/16" = 1'-0"

DOOR LEGEND

ALL EXTERIOR AND RESTROOM DOORS MUST BE SELF-CLOSING.

SEE SHEET A3 FOR ADDITIONAL DOOR AND THRESHOLD ACCESSIBILITY REQUIREMENTS

(1) NEW DOOR (CUSTOM FIT TO EXIST. OPENING): 3'-0" X 6'-8" FIELD VERIFY EXIST. OPENING ALUM. FRAME, TEMPERED GLASS, SELF-CLOSING

(2) NEW DOOR 3'-0" X 6'-8" SOLID CORE WOOD, HOLLOW METAL FRAME. SELF-CLOSING. LEVER STYLE HARDWARE WITH PRIVACY LOCK. SEE EQUIPMENT SCHEDULE ITEM # 17 FOR ADDITIONAL INFORMATION.

(3) NEW DOOR 3'-0" X 6'-8" HOLLOW METAL, HOLLOW METAL FRAME. SELF-CLOSING. LEVER STYLE HARDWARE.

DOOR REQUIREMENTS / EGRESS

1. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. FLUSH BOLTS OR SURFACE BOLTS ARE PROHIBITED.
2. POST A SIGN ADJACENT TO THE REQUIRED MAIN EXIT DOOR WITH 1" LETTERING STATING "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED."
3. EXIT DOORWAYS SHALL NOT BE LESS THAN 3'-0" WIDE X 6'-8" HIGH. PROJECTIONS INCLUDING PANIC HARDWARE SHALL NOT REDUCE THE OPENING TO LESS THAN 32" WIDE CLEAR WIDTH.
4. EXIT DOOR LEAFS SHALL NOT EXCEED 4'-0" IN WIDTH.
5. EXIT DOORS SHALL BE SIDE-HINGED, SWINGING TYPE.
6. ALL DOORS AND GATES MUST PROVIDE 32" MIN. CLEAR WHEN FULLY OPEN.

WALL LEGEND

- EXIST. NON-RATED WALL
- EXIST. STOREFRONT GLASS/WINDOW U.N.O. (ALL WINDOWS ARE FIXED.).
- (MDW) NEW WINDOW PER KEY TO PLAN
- NEW NON-STRUCTURAL INFILL WALL/PARTITION WALL: 2X4 @16" O/C UNO. 5/8" GYP. BD. UNO.
- NEW PONY WALL

KEY TO PLAN

(ACC) ACCESSIBLE SEATING WITH 30" X 48" CLEAR SPACE.

(C02) CO2 TANK

(CS) CLEANING SUPPLY SHELVING

(E/X) INTERNATIONAL SYMBOL OF ACCESSIBILITY AT EXTERIOR, BRAILLE EXIT SIGN AT INTERIOR.

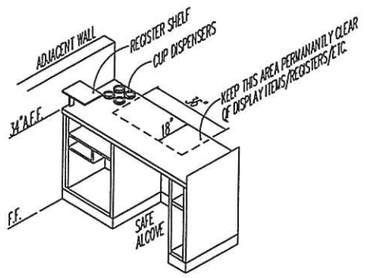
(FE) 2A10BC FIRE EXTINGUISHER. VERIFY QUANTITY AND LOCATIONS WITH FIRE MARSHAL.

(LKR) LOCKERS FOR EMPLOYEE'S USE. LOCKERS MUST BE ON 6" LEGS OR WALL-MOUNTED W/ 6" CLEAR UNDERNEATH LOCKERS, MIN.

(POS) POS COUNTER, MAXIMUM 34" AFF. CLEAR SPACE 18" DEEP X 36" WIDE AND AT SAME HEIGHT AFF AS ADJACENT COUNTER SPACE. SEE DETAIL 1/A1.

(SG) 6" HIGH STAINLESS STEEL SPLASHGUARD. PROVIDE SOAP AND PAPER TOWEL DISPENSERS AT HAND SINKS.

(MDW) NEW 48" HIGH STOREFRONT WINDOW



1 ACCESSIBLE P.O.S. NOT TO SCALE

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A1

FURNITURE AND EQUIPMENT SCHEDULE: TUSCANY II DECOR, 240V SINGLE PHASE ELECTRICAL SERVICE

ITEM STATUS: EX=EXIST	N=NEW	RF=REFINISH	RL=RELOCATE	SUPPLIER: DAI	O=OWNER	G.C.	(#)	DESCRIPTION	MANUFACTURER	QTY.	SIZE	TYPE	FINISH / COLOR	ELECTRICAL	PLUMBING	REMARKS	
	N			DAI			1	BOOTH SEATING	PLYMOLD	2		CONTOUR	FONT HILL PEAR LAMINATE TABLE TOP W/ BLACK DURA-EDGE.			(1) 4 SEAT, (1) 4 SEAT DISABLED ACCESSIBLE	CUSTOMER AREA
							4A	TABLE	PLYMOLD	0	30" X 42"	DISABLED ACCESSIBLE	FONT HILL PEAR LAMINATE TABLE TOP W/ BLACK DURA-EDGE.			ONE LEG AT EA. CORNER OF TABLE	
	N			DAI			4B	TABLE	PLYMOLD	9	20" X 24"		FONT HILL PEAR LAMINATE TABLE TOP W/ BLACK DURA-EDGE.			30" HIGH W/ FREESTANDING 22" X 22" CROSS BRACE.	
							4D	TABLE	PLYMOLD	0	24" X 44"		FONT HILL PEAR LAMINATE TABLE TOP W/ BLACK DURA-EDGE.			30" HIGH W/ FREESTANDING 22" X 30" CROSS BRACE.	
							4E	TABLE	PLYMOLD	0	24" X 44"		FONT HILL PEAR LAMINATE TABLE TOP W/ BLACK DURA-EDGE.			30" HIGH W/ (2) FREESTANDING22" END BASES.	
	N			DAI			6A	CHAIR	PLYMOLD	20		QUEST W/ UPHOLSTERED SEAT*	UPHOLSTERY COLORS: CROCUS, SPICE & SLATE. FRAME COLOR: BLACK WRINKLE			* OR DURA SEAT	
							-										
							-										
	N			DAI			8A	TRASH RECEPTACLE	PLYMOLD	1	25" x 25"	SINGLE WASTE RECEPTACLE	FONT HILL PEAR LAMINATE TABLE TOP W/ BLACK DURA-EDGE.				
	N			DAI			9A	SODA FOUNTAIN	CORNELIUS	1				NEMA 5-20R		DRAIN TO FLOOR SINK VIA LEGAL AIR GAP	
	N			DAI			9B	TEA/COFFEE BREWER	BUNN-O-MATIC	1				NEMA 5-15P	MIN. 1 GPM WATER FLOW		
	N			DAI			10	BEVERAGE CENTER	DUKE MANUF.	1	72"		STAINLESS STEEL TOP. FONT HILL PEAR LAMINATE FINISH ALL OTHER SURFACES.			RIGHT HAND MODEL	
	N			DAI			11	SUBWAY "OPEN" SIGN	MYSTIGLO	1				NEMA 5-15R			
	N			DAI			13A	WALL ART- VERTICAL	SUNGLO FABRICS	7	23" x 50"	WALL-HUNG PRINT(S)	STYRENE FACED FOAMBOARD, THREE DIFFERENT IMAGES AVAILABLE.			FRAMED IN BLACK METAL. MOUNTING HARDWARE INCLUDED.	
	N			DAI			13B	WALL ART-SQUARE	SUNGLO FABRICS	2	26" X 26"	WALL-HUNG PRINT(S)	COLOR PHOTOS DOUBLE MATTED IN A BLACK WOODEN FRAME. 8 PRINT IMAGES AVAIL.			MOUNTING HARDWARE INCLUDED.	
	N			DAI			13E	DECORATIVE SUBWAY SIGN	TPC	0	12" X 58"	WALL-HUNG PRINT(S) ON STYRENE	STAINLESS STEEL SIGN			MOUNTING HARDWARE INCLUDED.	
	N						14	CHIP RACK	FRITO-LAY	1	34"W X 24" D X 78"H.	"OVAL STYLE"					
	N			DAI			15	DISPLAY REFRIGERATOR	TRUE	1				NEMA 5-15R		1 DOOR LH FLOOR MODEL	
							16	WALL PLANT	GRACE DESIGNS	2			WALL HUNG SILK PLANT.				
	N						17	INTERIOR DOOR	LOCAL	1	3'-0" W x 6'-8" H	SOLID CORE, HARDWOOD, HM FRAME	STAIN DOOR MINIWAX #235 CHERRY, APPLY POLYURETHANE FAST DRYING SATIN.			PAINT HM FRAME SW #6356 COPPER MOUNTAIN. PROVIDE LEVER-STYLE HARDWARE.	
	N			DAI			19	FRONT COUNTER	DUKE MANUF.	1	TOTAL LENGTH: 18'-2"	W/ INTEGRAL SNEEZEGUARDS		DIRECT WIRED		25" HOT, 60" COLD, 60" COLD, 73" CASH COUNTER	SERVICE AREA
	N			DAI			20D	SKELETON WALL	DUKE MANUF.	1	4 7/8" D X 24"W	S.S. TOP				35 3/4" H, INSTALLED BY G.C.	
	N			DAI			21	COOKIE DISPLAY CASE	NEMCO	1			CLEAR ACRYLIC			MAINTAIN REQUIRED CLEARANCE FOR ACCESSIBILITY AT POS COUNTER	
	N			DAI			23	SAFE	C.S.S./TIDEL	1		QUICK DROP		DIRECT WIRED		ON APPROVED 6" LEGS OR 4" COVED CONCRETE	
	N			DAI			24	SUBSHOP 2000 POS	PAR/MICROS/HP	1						PC BASED POINT OF SALE SYSTEM	
	N			DAI			25	MICROWAVE	MENUMASTER/SHARP	1				NEMA 5-20R			
	N			DAI			27	BREAD OVEN	DUKE	1				DIRECT WIRED	1/4" CW		
	N			DAI			28A	COMBI BREAD CABINET	LOCKWOOD	1		LH COMBINATION CABINET.				INTEGRATED OPEN AIR COOLING RACK ABOVE, ENCLOSED CABINET BELOW.	
	N			DAI			28C	FRONTLINE DISPLAY BREAD CAB.	LOCKWOOD	1		RH CABINET.				ALUM. CABINET W/ ANGLED GLASS FRONT DISPLAY AND GLASS DOOR.	
	N			DAI			28D	OPEN AIR COOLING RACK	LOCKWOOD	1	21 1/4"W X 26 1/2"D					30"HIGH, FULL RACK.	
	N			DAI			29	MENU BOARD	VGS/TRANSLITE SONOMA	4	(2) 4'W x 2'H, (2) 2'W X2'H			NEMA 5-15R		(2) 2' W' LIGHT FIXTURES. (2) 4'W LIGHT FIXTURES, MOUNT TO TOP OF MENU BOARDS	
	N			DAI			30	GATE	DUKE MANUF.	-	35" WIDE x 36" HIGH		FONT-HILL PEAR LAMINATE FINISH			SELF-CLOSING	
	N			DAI			31	BACK COUNTER W/HAND SINK	DUKE MANUF.	1	RH, 48" LENGTH		STAINLESS STEEL TOP. FONT HILL PEAR LAMINATE FINSH ALL OTHER SURFACES.				
	N			DAI			33	REFRIGERATED BACK COUNTER	DUKE MANUF.	1	60" LENGTH		STAINLESS STEEL TOP. FONT HILL PEAR LAMINATE FINSH ALL OTHER SURFACES.	NEMA 5-20R			
	N			DAI			34	SPEED OVEN	TURBOCHEF	1				NEMA 56-30P			
	N			DAI			36	3 COMP SINK	DUKE MANUF.	1	72" LENGTH				PER PLUMBING DRAWINGS	W/ (2) 18" DRAINBOARDS, DRAINS TO FLOOR SINK VIA LEGAL AIR GAP	BACKROOM AREA
	N			DAI		GC	37	MOP SINK	SEE PLUMBING DRAWINGS	1	24" X 24"				PER PLUMBING DRAWINGS	24" X 24" FLOOR MOUNTED	
	N			DAI			38	WATER HEATER	SEE PLUMBING DRAWINGS	1				DIRECT WIRED	PER PLUMBING DRAWINGS		
	N			DAI			39	WORK TABLE	DUKE MANUF.	1	72" L X 24" D						
	N			DAI			40	WALL SHELF	INTER METRO	2						SUPER ERECTRA BRITE, EPOXY COATED.	
	N			DAI			41	VEGETABLE SINK	DUKE MANUF.	1	36 1/2" X 27"				PER PLUMBING DRAWINGS	W/ (1) 18" DRAINBOARD, DRAINS TO EXISTING FLOOR SINK VIA LEGAL AIR GAP	
	N					GC	42	HAND SINK	SEE PLUMBING DRAWINGS	1					PER PLUMBING DRAWINGS	W/ PAPER TOWEL DISPENSER AND SOAP DISPENSER MOUNTED ABOVE. (1 NEW, 1 EX.)	
	N			DAI			43	CLEANING PRODUCT RACK	SSDC	1						WALL-MOUNTED DISPENSING STATION FOR CLEANING PRODUCTS	
	N			DAI			45	EASY SLICER	NEMCO, INC.	1						MANUAL SLICER MOUNTED ON PREP TABLE.	
	N			DAI			46	RETARDER CABINET	LOCKWOOD	1				DIRECT WIRED		LOCATE INSIDE WALK-IN REFRIGERATOR	
	N			DAI			47	WALK-IN REFRIGERATOR	NORLAKE	1	6'-0" x 4'-0"			DIRECT WIRED		DRAIN TO FLOOR SINK VIA LEGAL AIR GAP	
	N			DAI			48	WALK-IN FREEZER	NORLAKE	1	6'-0" x 4'-0"					DRAIN TO FLOOR SINK VIA LEGAL AIR GAP	
	N			DAI			49A	STORAGE SHELVES	INTER METRO	7	SEE NOTE #4 BELOW		SUPER ERECTA BRITE			SEE NOTE #4 BELOW	
	N			DAI			49B	OFFICE/TRAINING STATION	INTER METRO	1	24" x 40"		S.S. WORK SURFACE, SUPER ERECTA BRITE SHELVING	NEMA 5-20R		W/KEYBOARD DRAWER, OVERHEAD SHELVING AND LOCKABLE CAGE.	
	N			DAI			50	SODA STORAGE	COKE	1				NEMA 5-20R	PER PLUMBING DRAWINGS		
	N			DAI			51	STEREO SYSTEM	SUBWAY RADIO/LOCAL	1	21 9/16" x 26 3/4"					RECEIVER & AMPLIFIER W/ (3) SPEAKERS. OPTIONAL SUBWAY RADIO SERVICE	
							52	BREAD CABINET	LOCKWOOD	0			ALUMINUM FIN.			W/ SWIVEL CASTERS.	

NOTES

1. ALL NEW AND REPLACEMENT FOOD AND UTENSIL RELATED EQUIPMENT SHALL BE LISTED BY ONE OF THE FOLLOWING: NSF INTERNATIONAL, INTERTEK TESTING SERVICES, C.S.A. OR U.L. SANITATION.
2. RE-USE OF USED EQUIPMENT IS SUBJECT TO THE EVALUATION AND APPROVAL OF THE ENVIRONMENTAL HEALTH INSPECTOR.
3. SEE SHEET GS-1 FOR ADDITIONAL REQUIREMENTS.
4. 18" DEEP X 5 TIER METRO SHELVING:
   (2) @ 2.5 LF
   (1) @ 3.0 LF
   (1) @ 4.5 LF
   24" DEEP X 5 TIER METRO SHELVING:
   (1) @ 3.5 LF

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ACCESIBILITY REQUIREMENTS

THRESHOLDS AND DOORS

MAXIMUM VERTICAL EDGE AT THRESHOLDS: 1/4"

BOTTOM 10" OF ALL DOORS MUST BE A SMOOTH UNINTERRUPTED SURFACE.

EFFORT TO OPERATE DOORS SHALL NOT EXCEED THE FOLLOWING: INTERIOR DOORS 5 LBS. MAX PRESSURE. EXTERIOR DOORS 5 LBS. MAX PRESSURE. FIRE DOORS 15 LBS. MAX PRESSURE. NOTE: EXISTING DOORS TO BE REUSED MUST BE ADJUSTED TO MEET THESE CRITERIA.

4. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.

HAND OPERATED DOORS THAT LATCH/LOCK SHALL BE OPERABLE WITH A SINGLE EFFORT. (LEVER-TYPE, PANIC BARS OR PUSH/PULL HARDWARE.)

OPENING HARDWARE SHALL BE CENTERED BETWEEN 30" AND 44" ABOVE FIN. FLOOR.

DOOR CLOSERS MUST BE SET SO THAT IT TAKES AT LEAST 3 SECONDS TO CLOSE DOOR FROM AN OPEN POSITION OF 70 DEGREES TO WITHIN 3" OF THE LATCH.

RESTROOM DOOR(S) AT SINGLE ACCOMODATION TOILET ROOMS SHALL HAVE A PRIVACY LOCK (PUSH BUTTON/LEVER RELEASE.)

LAVATORY SINKS & FAUCETS

MINIMUM 30" W X 48" CLEAR SPACE IS PROVIDED IN FRONT OF LAVATORY ALLOWING FORWARD APPROACH. REQUIRED FLOOR SPACE AJOINS OR OVERLAP AN ACCESSIBLE ROUTE AND EXTENDS A MIN. OF 19" UNDERNEATH THE LAVATORY. LAVATORIES ADJACENT TO A SIDE WALL SHALL HAVE A MIN. CLEARENCE OF 18" FROM SIDE WALL TO CENTER OF FIXTURE.

MAINTAIN 29" MIN. CLEAR FROM BOTTOM OF APRON TO FLOOR.

MAINTAIN KNEE CLEARANCE UNDER FRONT LIP OF LAV: 27" HIGH, 30" WIDE EXTENDING A MIN. OF 8" DEEP FROM THE FRONT OF THE LAV. TOE CLEARANCE UNDER LAV: MIN. 9" HIGH, 30" WIDE EXTENDING A MIN. OF 17" DEEP FROM FRONT OF THE LAV.

INSULATE BOTH WATER SUPPLY LINES AND DRAIN LINE UNDER LAV.

FAUCETS SHALL BE OPERABLE WITH ONE HAND AND NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING.

SELF-CLOSING FAUCETS SHALL REMAIN OPEN 10 SECONDS MIN.

FAUCETS OPERATING FORCE SHALL NOT EXCEED 5 LBS.

NO SHARP OR ABRASIVE SURFACES ARE ALLOWED UNDER SINKS.

DISPENSERS

TOILET PAPER DISPENSERS SHALL MAINTAIN 1 1/2" CLEAR BELOW GRAB BAR, BE WITHIN 7" TO 9" OF THE WATER CLOSET WITH THE OUTLET NOT LOWER THAN 19" A.F.F.

TOILET PAPER DISPENSERS SHALL BE OF A TYPE THAT ALLOWS CONTINUOUS, UNINTERRUPTED PAPER FLOW.

MIRRORS

LOCATE BOTTOM OF REFLECTIVE SURFACE A MAXIMUM OF 40" AFF.

GRAB BARS

DIAMETER SHALL BE 1-1/4" MINIMUM TO 1-1/2" MAXIMUM.

SPACE BETWEEN WALL AND GRAB BAR TO BE 1-1/2".

GRAB BARS AND ADJACENT WALL SURFACES SHALL BE FREE OF SHARP AND ABRASIVE ELEMENTS.

GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

GRAB BARS' STRUCTURAL STRENGTH AND ITS FASTENERS SHALL BE ADEQUATE TO SUPPORT 250 LBS MIN.

WATER CLOSETS

FLUSH CONTROLS TO BE HAND-OPERATED AND LOCATED ON WIDE SIDE OF TOILET AREA.

TOP OF TOILET SEAT SHALL BE 17-19" FROM FLOOR.

MAINTAIN 28" MIN. FROM TOILET TO ADJACENT FIXTURES.

SIGNS

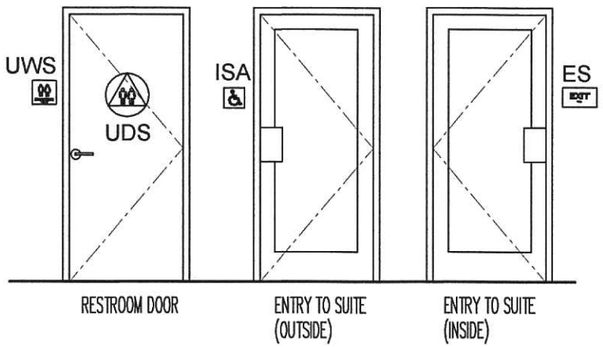
1. SIGNS WITH RAISED CHARACTERS AND BRAILLE SHALL BE LOCATED 48" MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST LINE OF BRAILLE AND 60" MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS.

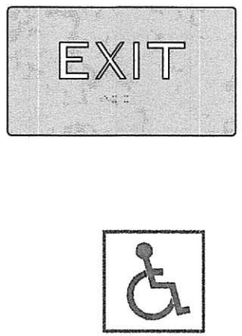
MOUNTING LOCATION SHALL BE SUCH THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF THE DOOR.

2. CIRCLE SYMBOL FOR THE UNISEX RESTROOM DOOR SIGN SHALL CONTRAST WITH THE DOOR, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND.

3. VISUAL CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE "I".

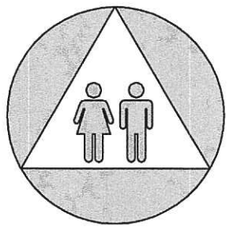
STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.





ES: EXIT SIGN
INSTALL WITHIN 3" OF DOOR'S STRIKE SIDE JAMB AND 60" FROM FLOOR TO CENTER OF SIGN. 6" X 9" WITH TYPE II BRAILLE. SEE FLOOR PLAN FOR LOCATIONS.

ISA: INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN
INSTALL WITHIN 3" OF DOOR'S STRIKE SIDE AND 60" FROM FLOOR TO CENTER OF SIGN. 6" X 6" SIGN W/ RAISED PICTOGRAM



UDS: UNISEX DOOR SIGN (SEE SIGN NOTE #2)
CENTERED ON DOOR, 60" FROM FLOOR TO CENTER OF SIGN. UNISEX STYLE SIGN, 12" DIAMETER, 1/4" THICK WITH A 1/4" THICK TRIANGLE SUPERIMPOSED ON THE CIRCLE. CIRCLE AND TRIANGLE TO BE CONTRASTING COLORS.

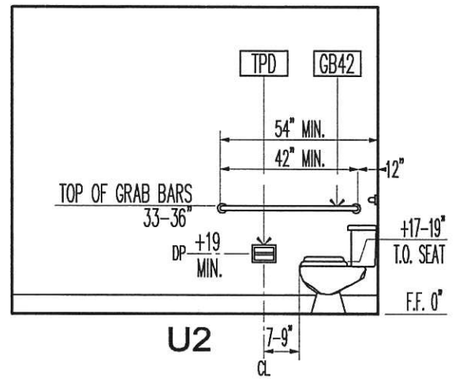
UWS: UNISEX WALL SIGN (SEE SIGN NOTE #1)
INSTALL WITHIN 3" OF DOOR'S STRIKE SIDE JAMB AND 60" FROM FLOOR TO CENTER OF SIGN. UNISEX STYLE SIGN, 9" X 9" WITH TYPE II BRAILLE.

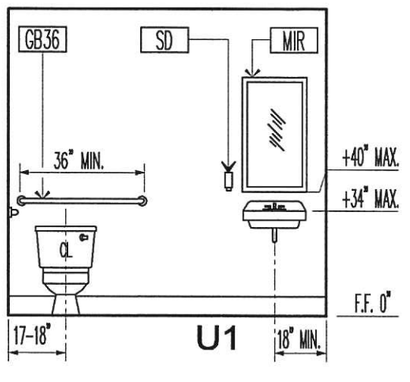
1 ACCESSIBILITY SIGNAGE NOT TO SCALE

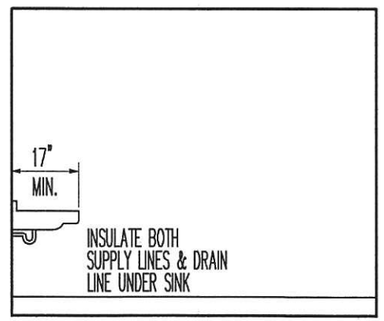
WASHROOM ACCESSORIES SCHEDULE

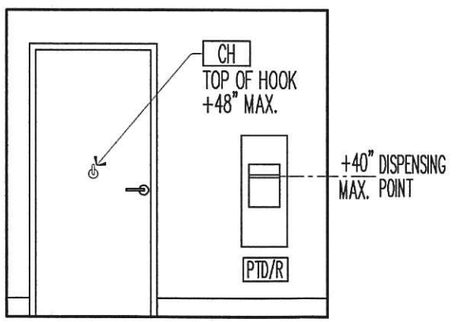
SYM.	DESCRIPTION	MANUF./ #	MOUNTING	REMARKS
CH	CLOTHES HOOK	BRADLEY #9111	SURFACE	
GB36	GRAB BAR- 36" LONG, 1 1/2" DIA.	BRADLEY #812	SURFACE/CONCEALED	SAFETY GRIP FINISH
GB42	GRAB BAR- 42" LONG, 1 1/2" DIA.	BRADLEY #812	SURFACE/CONCEALED	SAFETY GRIP FINISH
MIR	MIRROR	BRADLEY #780-2436	SURFACE	
SD	SOAP DISPENSER	BRADLEY #6531	SURFACE	
TPD	TOILET PAPER DISPENSER	BRADLEY #5104	RECESSED	UNCONTROLLED DELIVERY
PTD/R	PAPER TOWEL DISPENSER/RECEPTICLE	BRADLEY #2297-10	SEMI-RECESSED	ORDER W/ COLLARS

OPERATING POINT OF ALL ACCESSORIES SHALL BE INSTALLED 40" MAX. TO CL OF OPERATING PART FROM FIN. FLOOR SURFACE.









UNISEX WASHROOM

1/4" = 1'-0"

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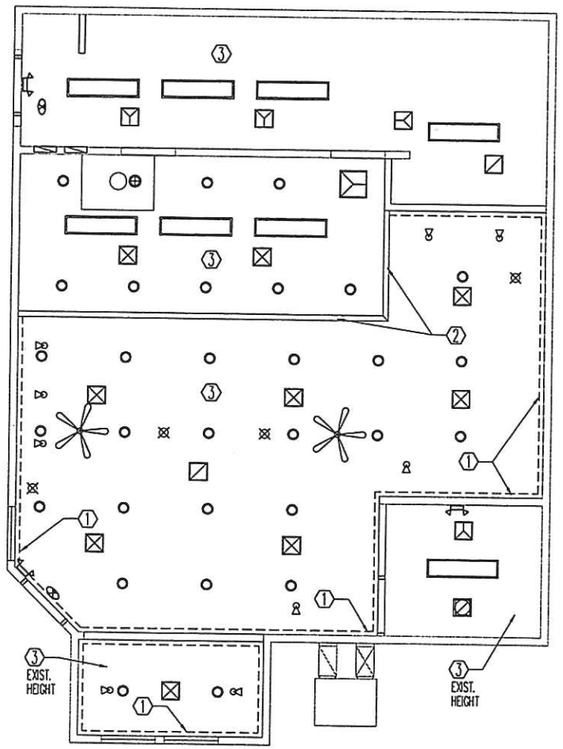

CEILING PLAN
3/16" = 1'-0"

KEY TO PLAN

1. 4 1/2" HARDWOOD CROWN MOLDING. INSTALL AROUND PEREMETER OF CUSTOMER AREA. PROVIDE CONTINUOUS NAILER WITHIN WALL AS NECESSARY FOR ALL MOLDING INSTALLATIONS.
2. 4" WIDE X 1" FLAT HARDWOOD BORDER AT UNDERSIDE OF GYP. BOARD CEILING. FINISH W/ MINWAX #235 CHERRY AND POLYURETHANE WITH MINWAX FAST-DRYING CLEAR SATIN.
3. PAINTED GYP. BOARD CEILING 8'-0" A.F.F. UNLESS NOTED OTHERWISE.

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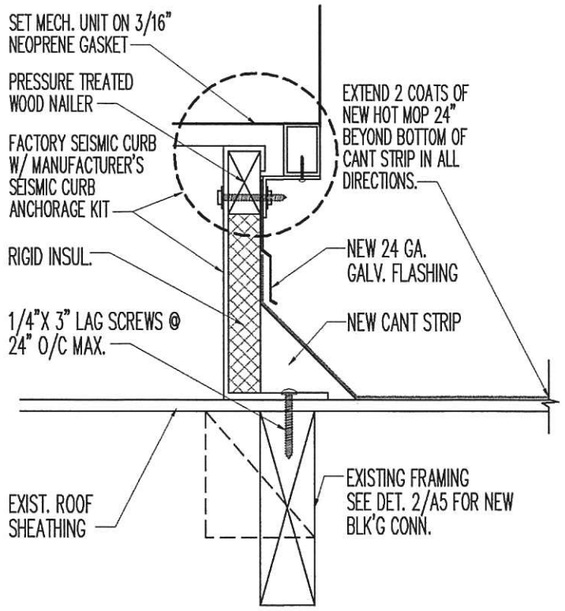
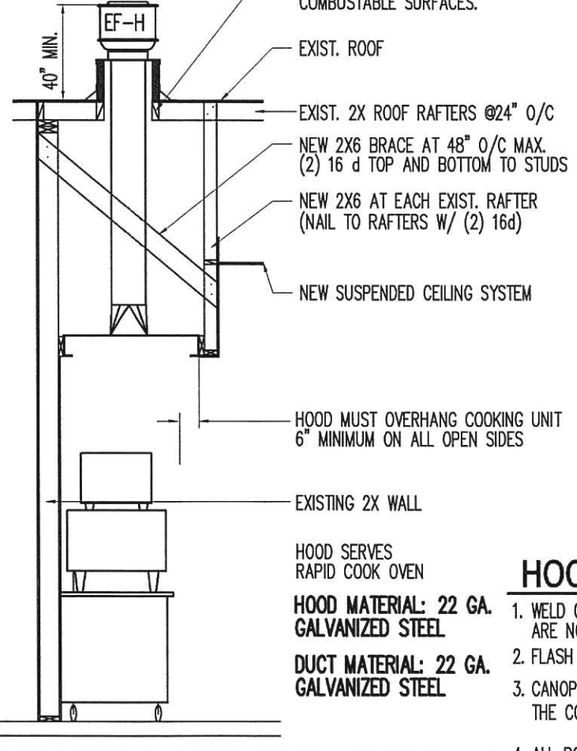


2 MECHANICAL CURB ANCHORAGE NOT TO SCALE



1 TYPE II HOOD REQUIREMENTS NTS

MAKE UP AIR FAN SCHEDULE

FOR ORDERING: CONTACT KKung@norman-wrightsocal.com

SYM.	MODEL	MANUF.	FAN RPM	TYPE	INTAKE LOCATION	WGT.	CFM	SELECTED OPTIONS/ACCESSORIES
MUA	KSF-108-H10	GREENHECK	883	DOWNBLAST	ROOF	230 LBS.	600	CONTROL CENTER W/ DISCONNECT. STARTERS: SUPPLY. STANDARD WEATHERHEAD W/ 2" ALUMINUM MESH FILTERS.

EF-H: - 975 CFM MUA: + 975 CFM TOTAL = 0 NEUTRAL AIR BALANCE

MAKE-UP AIR REQUIREMENTS

1. PROVIDE SINGLE INTERLOCKING SWITCH BETWEEN HOOD EXHAUST FAN AND MAKE UP AIR UNIT.
2. WIRE SUPPLY AIR TO RUN THERMOSTATICALLY CONTROLLED CONTINUOUSLY DURING OCCUPIED HOURS.
3. ALL CONTROL WIRING AND CONDUIT INCLUDING LINE AND LOW VOLTAGE TO BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
4. ALL POWER WIRING AND POWER CONDUIT TO BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

EXHAUST FAN SCHEDULE

FOR ORDERING: CONTACT KKung@norman-wrightsocal.com

SYM.	MODEL	MANUF.	FAN RPM	TYPE	DISCHARGE LOCATION	WGT.	CFM	SELECTED OPTIONS/ACCESSORIES
EF-H	CUE-095-VG	GREENHECK	1536	UPBLAST	ROOF	69 LBS.	600	VARI-GREEN MOTOR W/ POTENTIOMETER DIAL NEMA 1 SWITCH, TOGGLE JUNCTION BOX MOUNTED AND WIRED. DAMPER: WED-100-PB-10X10 GRAVITY OPERATED (LOOSE) NOT COATED

AIR CURTAIN SCHEDULE

SYM.	MODEL	MANUF.	TYPE	DISCHARGE LOCATION	CAPACITY CFM	NOTES
AIR C.	LPN72	MARS	DIRECT	DOWNWARD, AT ENTRY DOOR	1600 FPM	**AIR CURTAIN OVER FULL WIDTH OF DOOR** W/ CONTROL PANEL AND MICRO-SWITCH FOR AUTOMATIC ON/OFF OPERATION. (SWITCHES UNIT ON WHEN DOOR OPENS, SWITCHES UNIT OFF WHEN DOOR IS CLOSED.

TOILET EXHAUST FAN SCHEDULE

SYM.	MODEL	MANUF.	SP IN WG	FAN RPM	TYPE	DISCHARGE LOCATION	CAPACITY CFM	NOTES
EF-1	SP-B80	GREENHECK	0.25	900	DIRECT	ROOF	75	W/ INTEGRAL BACKDRAFT DAMPER. M.C. TO PROVIDE/INSTALL RJ-4 ROOF JACK

HOOD REQUIREMENTS

1. WELD OR SOLDER ALL JOINTS AND SEAMS. RIVETED SEAMS ARE NOT ACCEPTABLE.
2. FLASH HOODS TO CEILINGS AND ADJACENT WALLS.
3. CANOPY TYPE HOODS SHALL NOT BE MORE THAN FOUR FEET ABOVE THE COOKING SURFACE.
4. ALL POWER WIRING AND CONDUIT TO BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

HOOD CALCULATION

Q=50A
4'-0" X 3'-0" = 24 SF
24 X 50 = 600
PROVIDE 600 CFM EXHAUST FAN AND 600 CFM MAKE UP AIR

HVAC REQUIREMENTS

ALL SUPPLY AND RETURN AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-5 INSUL. WHEN LOCATED IN UNCONDITIONED SPACES AND A MINIMUM OF R-8 INSULATION WHEN LOCATED OUTSIDE THE BUILDING ENVELOPE.

WHEN LOCATED WITHIN THE BUILDING ENVELOPE THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPT SPACES BY A MINIMUM OF R-8 INSULATION.

ALL JOINTS. LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS, MASTICS-PLUS-EMBEDDED-FABRIC SYSTEMS OR TAPES. TAPES AND MASTICS SHALL BE LISTED AND LABELED ACCORDING TO 181A OR UL181B.

DUCT CONNECTIONS TO FLANGES OR AIR DISTRIBUTION SYSTEM EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED. UNLISTED DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY METAL DUCTS.

ALL FRESH AIR INTAKES ON THE ROOF MUST BE A MINIMUM OF 10'-0" FROM THE NEAREST EXHAUST OUTLET UNLESS THE EXHAUST OUTLET DISCHARGES AT A POINT 3'-0" HIGHER THAN THE INTAKE ON ANY EQUIPMENT LOCATED WITHIN 10'-0" OF THAT EXHAUST OUTLET.

VENTILATION SYSTEM SHALL BE BALANCED USING AN APPROVED METHOD. SYSTEM SHALL BE BALANCED TO VERIFY THAT SYSTEM IS CAPABLE OF SUPPLYING THE AIRFLOW RATES REQUIRED BY CODE AND AS SPECIFIED IN PLANS. MECHANICAL CONTRACTOR SHALL PROVIDE A COPY OF THE BALANCE TEST REPORT TO OWNER AND CITY PRIOR TO FINAL MECHANICAL INSPECTION.

DUCT SIZING REQUIREMENTS PER C.M.C.

CFM RANGE	FPM	LOSS PER 100 FT	DUCT DIA. REQUIRED
0-90	600	.08	6"
90-200	600	.08	8"
200-375	700	.08	10"
375-600	800	.08	12"
600-900	875	.08	14"
900-1200	900	.08	16"
1200-1600	900	.08	18"
1600-2000	900	.08	20"
2000-2400	900	.08	22"

HVAC SCHEDULE 5 TON UNIT

SYM.	MODEL	MANUF.	HEATING IN	EER	SEER	CFM
HVAC 1	574D-N-LP-60	BRYANT	90 Btuh	11.2	13.2	1600

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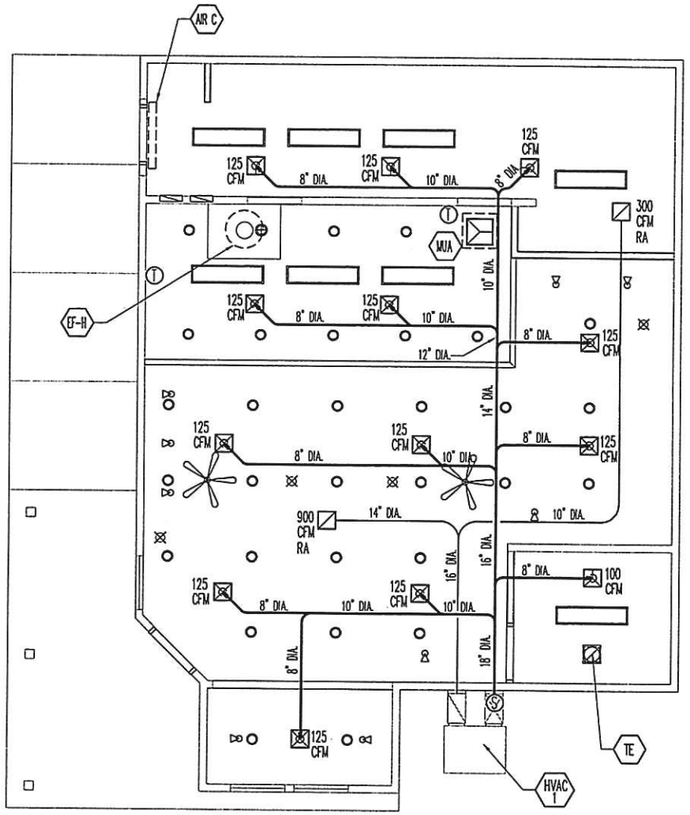
M1



MECHANICAL PLAN
3/16" = 1'-0"

LEGEND

- 12" X 12" SURFACE MTD. 3-WAY DIFFUSER W/ FACTORY DAMPER
- 12" X 12" SURFACE MTD. 4-WAY DIFFUSER W/ FACTORY DAMPER
- EXHAUST FAN
- DAMPER
- FLEX-DUCT
- (T) PROGRAMMABLE THERMOSTAT
- (S) SMOKE DETECTOR IN SUPPLY DUCTING INTERLOCKED WITH AUTOMATIC SHUTOFF FOR AIR MOVING SYSTEM(S) PER SECTIONS 203 AND 609 CMC.

CFM CUBIC FEET/MINUTE
MUA MAKE UP AIR
OAI OUTSIDE AIR INTAKE
R/A RETURN AIR

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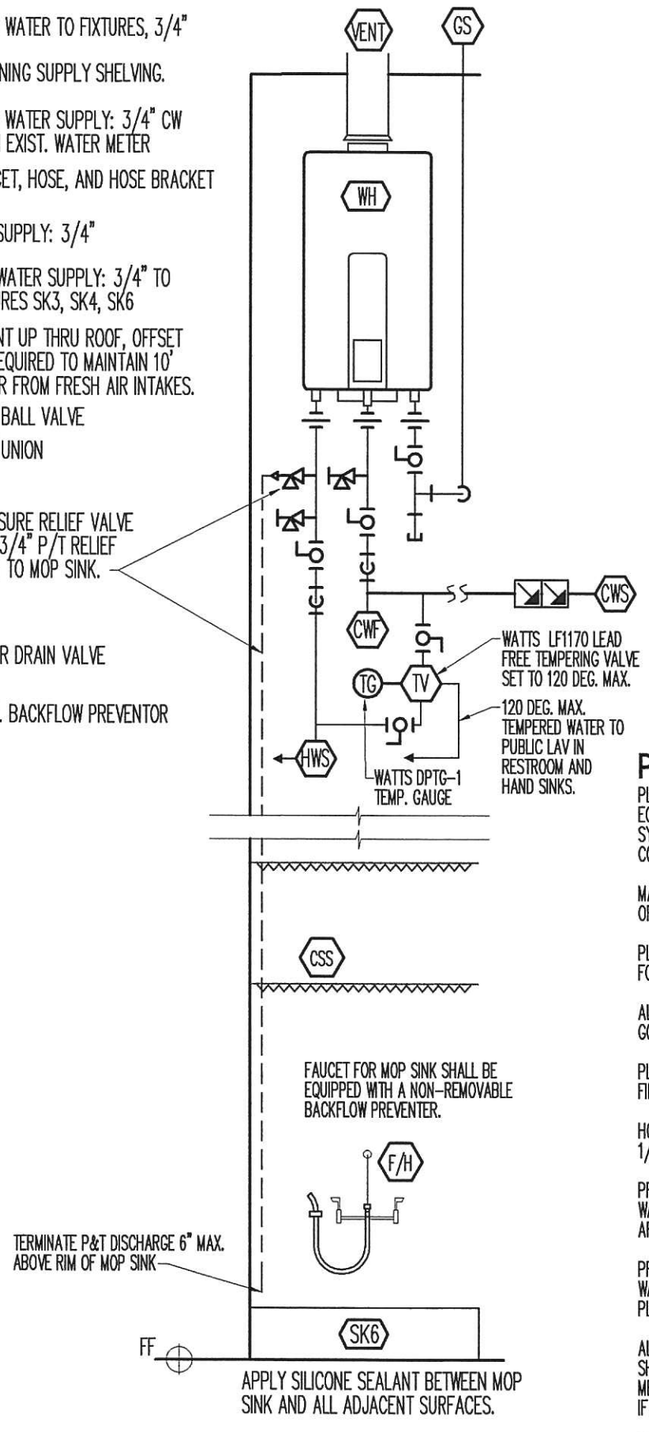
M2

KEY TO DETAIL

- CWF — COLD WATER TO FIXTURES, 3/4"
- CSS — CLEANING SUPPLY SHELVING.
- CWS — COLD WATER SUPPLY: 3/4" CW FROM EXIST. WATER METER
- F/H — FAUCET, HOSE, AND HOSE BRACKET
- GS — GAS SUPPLY: 3/4"
- HWS — HOT WATER SUPPLY: 3/4" TO FIXTURES SK3, SK4, SK6
- VENT — B VENT UP THRU ROOF, OFFSET AS REQUIRED TO MAINTAIN 10' CLEAR FROM FRESH AIR INTAKES.
- 3/4" BALL VALVE
- 3/4" UNION
- PRESSURE RELIEF VALVE WITH 3/4" P/T RELIEF DOWN TO MOP SINK.
- BOILER DRAIN VALVE
- EXIST. BACKFLOW PREVENTOR



1 WATER HEATER PIPING NOT TO SCALE

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE DESCRIPTION	CW	HW 100 DEG.	WASTE TYPE	WASTE SIZE	VENT	REPLACE EXIST. W/ NEW	NEW	REMARKS
FD	FLOOR DRAIN	–	–	DW	3"	1-1/2"	–	1	ZURN Z415-BZ (SQUARE OPTION: ZURN 1400-SZ)
FS/B	FLOOR SINK @ BEV. CENTER	–	–	IDW	3"	1-1/2"	–	1	ZURN Z1751 STAINLESS STEEL W/ STAINLESS STEEL GRATE
FS	FLOOR SINK	–	–	IDW	3"	1-1/2"	–	2	ZURN Z1901 W/ GRATES AS INDICATED ON PLAN
SK1	HAND SINK- BACK COUNTER	1/2"	1/2"	DW	2"	2"	–	1	DUKE MANUF. P.C. INSTALLED. STAINLESS STEEL.
SK2	HAND SINK- WALL HUNG	1/2"	1/2"	DW	2"	2"	–	1	DUKE TWMS. ALTERNATE: ELKAY #CHSB1716C STAINLESS STEEL WITH LKB400 FAUCET AND LKB8 DRAIN W/ GRID STRAINER
SK3	3 COMPARTMENT SINK	1/2"	1/2"	DW	2" IW	–	–	1	DUKE MANUF. STAINLESS STEEL.
SK4	VEGETABLE SINK	1/2"	1/2"	DW	2" IW	–	–	1	DUKE MANUF. STAINLESS STEEL, INTEGRAL WITH PREP TABLE
SK5	LAV SINK	1/2"	1/2"	DW	1-1/2"	1-1/2"	1	–	PRO FLO PF5518WH, 20" X 18" ADA COMPLIANT SINK WITH "HANDS-FREE" MIXING FAUCET, 15 SECONDS MIN. "HOLD-OPEN."
SK6	MOP SINK	1/2"	1/2"	DW	2"	2"	1	1	EAGLE GROUP #F1916 WITH 3 POLE MOP HANGER #312688 AND EAGLE GROUP HOSE/BRACKET COMBO #312689
TP	TRAP PRIMER	1/2"	–	DW	–	–	–	3	MIFAB #MR-500, BRASS, WITH WALL ACCESS PANELS FOR SERVICING.
WC	WATER CLOSET	3/4"	–	DW	3"	2" V	1	–	PRO FLO PF1603PAWH, ADA COMPLIANT TOILET, COLOR: WHITE. COORDINATE FLUSH HANDLE ORDER W/ PLAN ORIENTATION.
WH	WATER HEATER	3/4"	–	–	–	–		1	RINNAI RL94i INTERNAL GAS TANKLESS W/ COMMERCIAL CONTROLLER. 6.0 GPM WITH 55F RISE. 199,000 BTU. PROPANE.

CALGREEN COMPLIANCE	
MAXIMUM GPM	MAXIMUM GALLONS/FLUSH
–	–
–	–
–	–
1.5	–
1.5	–
1.8	–
1.8	–
0.4	–
1.8	–
–	–
–	1.28
–	–

PLUMBING REQUIREMENTS

PLUMBING CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT AS REQUIRED FOR A COMPLETE INSTALLATION OF PLUMBING SYSTEM SHOWN AND REASONABLY INFERRED AS NECESSARY BY THESE CONTRACT DOCUMENTS.

MATERIALS AND INSTALLATION SHALL COMPLY WITH THE CODES, ORDINANCES, AND REGULATIONS OF THE GOVERNING JURISDICTIONS.

PLUMBING CONTRACTOR SHALL GUARANTEE MATERIAL AND LABOR PROVIDED FOR A PERIOD OF ONE YEAR AFTER ISSUANCE OF OCCUPANCY CERTIFICATE.

ALL WORK SHALL COMPLY WITH REGULATIONS AND ORDINANCES OF THE GOVERNING JURISDICTIONS, AND INTERPRETATIONS OF THE CODE OFFICIALS.

PLUMBING CONTRACTOR SHALL VERIFY EQUIPMENT AND PIPING LAYOUT IN FIELD.

HOT WATER LINE SHALL HAVE LIGHT DENSITY FIBERGLASS PIPING INSULATION 1/2" THICK FOR FIRST 8' AFTER WATER HEATER.

PROVIDE AIR CHAMBERS, FULL SIZE 12" LONG FOR EACH HOT AND COLD WATER SUPPLY AT EACH FIXTURE, OR APPROVED WATER HAMMER ARRESTORS.

PROVIDE POLISHED CHROME ESCUTCHEONS WHERE PIPES PASS THROUGH WALLS AT FIXTURES VISIBLE TO PUBLIC. PROVIDE POLISHED DULL CHROME PLATED CAST BRASS SET SCREW FLANGES IN OTHER LOCATIONS.

ALL CUTTING AND PATCHING REQUIRED FOR PLUMBING SYSTEM INSTALLATION SHALL BE DONE BY THE PLUMBING CONTRACTOR. CUTTING OF STRUCTURAL MEMBERS IS NOT PERMITTED. NOTIFY GENERAL CONTRACTOR AND ARCHITECT IF STRUCTURAL COMPONENTS INTERFERE WITH INSTALLATION.

PATCH ALL WALL, FLOOR, AND CEILING OPENINGS WITH FIRE SAFING RATED NOT LESS THAN THE RATING OF THE PENETRATED ASSEMBLY.

PROVIDE DIELECTRIC FITTINGS WHERE COPPER JOINS FERROUS METAL.

PLUMBING CONTRACTOR SHALL INSTALL ALL NECESSARY SUPPORTS, EXPANSION PIPE LOOPS, UNIONS, EXPANSION JOINTS, CLEAN OUTS, ETC. AS REQUIRED FOR A FULLY OPERATIONAL PLUMBING SYSTEM COMPLYING WITH ALL APPLICABLE CODES..

STOPS TO BE PROVIDED ON ALL HOT AND COLD WATER LINES AT FIXTURES.

GAS PIPING

GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL. GAS PIPING COMPOUND AT JOINTS SHALL COMPLY WITH NFPA BULLETIN #45 AND ALL REQUIREMENTS OF THE GOVERNING JURISDICTION.

PREVIOUSLY USED PIPE, FITTINGS, VALVES AND OTHER MATERIALS MAY ONLY BE USED IF FREE OF ANY FOREIGN MATERIALS AND ADEQUATE FOR THE SERVICE INTENDED.

PIPE, TUBING AND FITTINGS SHALL BE CLEAR AND FREE FROM CUTTING BURRS AND DEFECTS IN STRUCTURE OR THREADING, AND SHALL BE THOROUGHLY BRUSHED WITH CHIP AND SCALE BLOWN.

DEFECTS IN PIPE, TUBING AND FITTINGS SHALL BE REPLACED WITH LIKE MATERIALS FREE OF DEFECTS.

METALLIC PIPE AND FITTING THREADS SHALL BE TAPER PIPE THREADS AND SHALL COMPLY WITH ASME B1.20.1.

METALLIC PIPE OR TUBING EXPOSED TO CORROSIVE ACTION SUCH AS SOIL OR MOISTURE SHALL BE PROTECTED IN AN APPROVED MANNER. ZINC COATINGS (GALVANIZED) IS NOT PERMITTED. FERROUS METAL EXPOSED IN EXTERIOR LOCATIONS SHALL BE PROTECTED FROM CORROSION IN A MANNER SATISFACTORY TO THE CODE OFFICIAL. WHERE DISSIMILAR METALS ARE JOINED UNDERGROUND AN INSULATING COUPLING OR FITTING SHALL BE USED.

ALL PIPING INSTALLED OUTDOORS SHALL BE ELEVATED NOT LESS THAN 3 1/2" ABOVE GROUND AND WHERE INSTALLED ABOVE THE ROOF SURFACE. PIPING INSTALLED ABOVE GROUND, OUTDOORS AND ACROSS ROOF SURFACES SHALL BE SECURELY SUPPORTED AND LOCATED WHERE IT WILL BE PROTECTED FROM DAMAGE.

WHERE PASSING THROUGH AN OUTSIDE WALL, THE PIPING SHALL ALSO BE PROTECTED AGAINST CORROSION BY COATING OR WRAPPING WITH AN INERT MATERIAL. WHERE PIPING IS ENCASED IN A PROTECTIVE PIPE SLEEVE, THE ANNULAR SPACE BETWEEN THE PIPING AND THE SLEEVE SHALL BE SEALED.

BEFORE ANY SYSTEM OF PIPING IS PUT IN SERVICE OR CONNECTED IT SHALL BE TESTED IN ACCORDANCE WITH APPLICABLE CODES TO ENSURE THAT IT IS GAS TIGHT.

PIPING SHALL BE SUPPORTED WITH PIPE HOOKS, METAL PIPE STRAPS, BANDS, BRACKETS OR HANGERS SUITABLE FOR THE SIZE OF THE PIPING, OF ADEQUATE STRENGTH AND QUALITY, AND LOCATED AT INTERVALS SO AS TO PREVENT OR DAMPEN EXCESSIVE VIBRATION. PIPING SHALL BE ANCHORED TO PREVENT UNDUE STRAINS ON CONNECTED EQUIPMENT AND SHALL NOT BE SUPPORTED BY OTHER PIPING.

SUPPORTS, HANGERS, AND ANCHORS SHALL BE INSTALLED SO AS NOT TO INTERFERE WITH THE FREE EXPANSION AND CONTRACTION OF THE PIPING BETWEEN THE ANCHORS. ALL PARTS OF THE SUPPORTING EQUIPMENT SHALL BE BE INSTALLED SO THEY WILL NOT BE DISENGAGED BY MOVEMENT OF THE SUPPORTED PIPING.

EACH APPLIANCE SHALL BE PROVIDED WITH A SHUTOFF VALVE SEPERATE FROM THE APPLIANCE. THE SHUTOFF VALVE SHALL BE LOCATED WITHIN THE SAME ROOM AS THE APPLIANCE (IF IS LOCATED INDOORS) AND WITHIN 6' OF THE APPLIANCE. THE SHUTOOF VALVE SHALL BE INSTALLED UPSTREAM FROM THE UNION, CONNECTOR, OR QUICK DISCONNECT IT SERVES. SHUTOFF VALVES SHALL BE FULLY ACCESSIBLE.

OVERPRESSURE PROTECTION DEVICES SHALL BE PROVIDED TO PREVENT THE PRESSURE IN THE PIPING SYSTEM FROM EXCEEDING THE PRESSURE THAT WOULD CAUSE UNSAFE OPERATION OF ANY CONNECTED AND PROPERLY ADJUSTED APPLIANCE.

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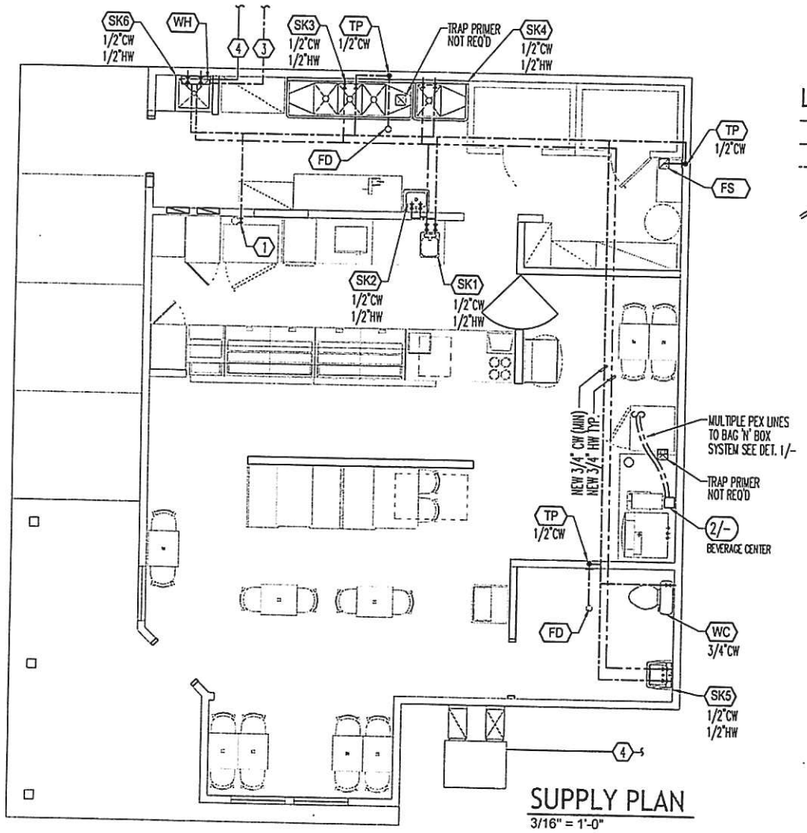
P1

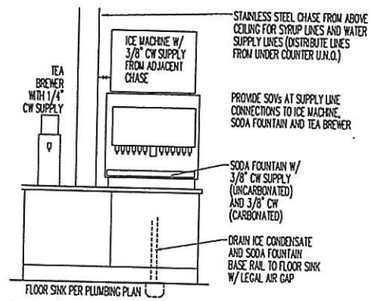


SUPPLY PLAN

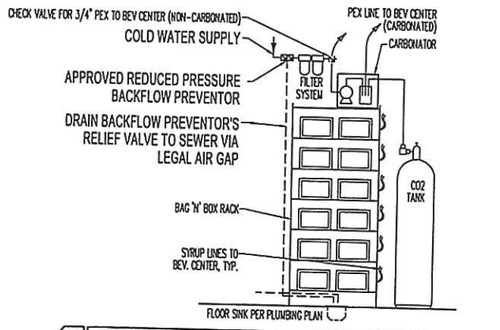
3/16" = 1'-0"

LEGEND

- NEW HOT WATER LINE, 3/4" UNO.
- NEW COLD WATER LINE, 3/4" UNO.
- NEW 1/2" COLD WATER LINE UNDER SLAB FROM TRAP PRIMER TO FIXTURE.
- PEX LINES FROM BAG 'N' BOX SYSTEM TO BEVERAGE CENTER. (PEX LINE INSTALLATION BY CERTIFIED INSTALLER.)
- NEW TRAP PRIMER IN WALL. PROVIDE ACCESS DOOR AND SOV FOR EACH TRAP PRIMER. RUN TRAP PRIME LINE UNDER SLAB TO INDICATED FIXTURE.
- NEW PLUMBING FIXTURE, SEE SCHEDULE SHEET P1
- NEW WATER SHUT OFF VALVE



2 EX. BEVERAGE CENTER NOT TO SCALE



1 BAG 'N' BOX SYSTEM NOT TO SCALE

PIPING SPECIFICATIONS

ITEM	LOCATION	PIPE TYPE
WATER SUPPLY	UNDER SLAB	TYPE M COPPER
WATER SUPPLY	ABOVE SLAB	TYPE L COPPER

KEY TO PLAN

1. NEW 1/2" CW LINE TO NEW SOV FOR BREAD OVEN.
2. NOT USED
3. INTERCEPT EXIST. CW SUPPLY LINE FROM EXIST. WATER METER, EXTEND TO NEW WATER HEATER
4. NEW PROPANE SUPPLY TO NEW UNIT PER MANUFACTURER'S REQUIREMENTS.

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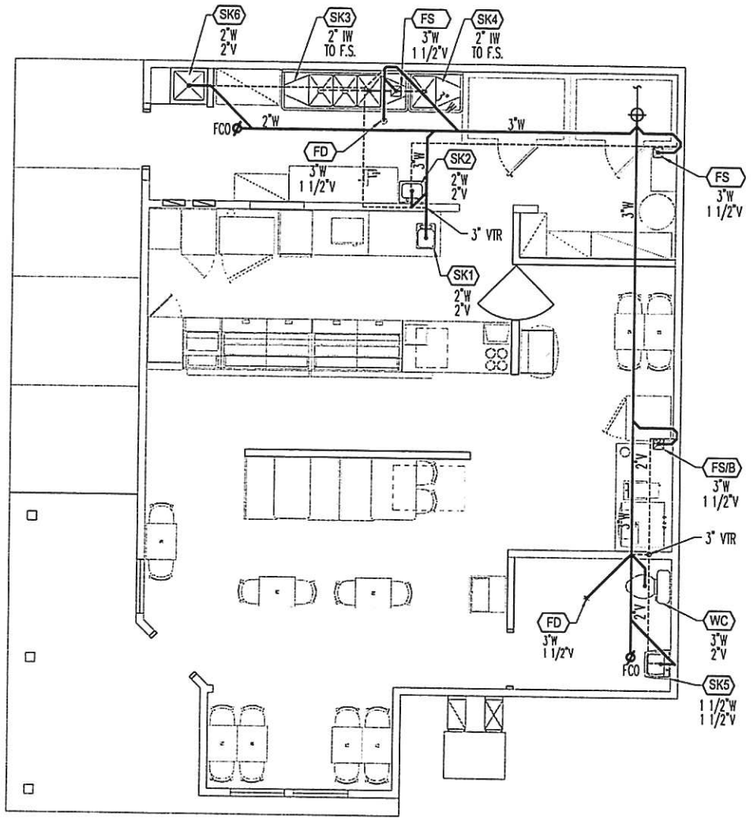
P2



PLUMBING WASTE PLAN
3/16" = 1'-0"

LEGEND

VENT ABOVE CEILING:
NO HUB CAST IRON
(ALT. MATERIAL: SCHED. 40 ABS)

NEW SANITARY WASTE:
NO HUB CAST IRON
(ALT. MATERIAL: SCHED. 40 ABS)

POINT OF CONNECTION

2" INDIRECT WASTE TO
FLOOR SINK BELOW

A/C ABOVE CEILING
VTR VENT THRU ROOF
FCO FLOOR CLEANOUT
FLOOR DRAIN
FLOOR SINK (NO COVER)
FLOOR SINK (HALF COVER)

WASTE LINE VERIFICATION

PLUMBING CONTRACTOR TO VERIFY THE FOLLOWING ITEMS IN FIELD:
PIPE MATERIAL, PIPE SIZE, ACTUAL LOCATION AND DIRECTION OF SLOPE.

THE COST FOR A CAMERA VERIFICATION OF SEWER LOCATION, DEPTH AND SLOPE DIRECTION SHALL BE INCLUDED IN INITIAL PLUMBING BID.

COSTS FOR ADDITIONAL SAWCUTTING AND WASTE LINE EXTENSION RESULTING FROM CAMERA VERIFICATION OF EXISTING CONDITIONS SHALL BE SUBMITTED SEPARATELY TO OWNER FOLLOWING DETERMINATION OF ACTUAL CONDITIONS.

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⚠ 4/4/14 3" WASTE

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P3

PANEL A

PANEL VOLTAGE: 120/240 VOLTS, 1PH, 3W
200 A/1P MAIN BREAKER

[20|1] BOLD BRACKETS INDICATE GROUND FAULT INTERRUPT BREAKER

CIRCUIT #	CODE	TRIP	POLE	DESCRIPTION	CONNECTED VA PH-A	CONNECTED VA PH-B		PH-A	PH-B		TRIP	POLE	CODE	CIRCUIT #
1		100		SUBFEED	9464		A	3240		BREAD	30		K	2
3			2	PANEL B		7685	B		3240	OVEN		2	K	4
5				SPACE			A			SPACE				6
7	K	20	1	TEA/COFFEE BREW.		1700	B			SPACE				8
9	K	20	1	BEV. STATION SODA MACHINE	400		A	1440		WALK-IN COOLER	20			10
11	K	20	1	ICE MACHINE		1850	B		1440			2		12
13		20	1	BACK COUNTER	500		A	1850		WALK-IN COOLER	20		K	14
15				SPACE			B		1850	COND.		2	K	16
17	K	20	1	DISPLAY REFRIG.	1000		A	1850		WALK-IN FREEZER	20			18
19	K	20	1	SOUP		500	B		1850			2		20
21		20	1	MICROWAVE	1800		A	1850		WALK-IN FREEZER	20		K	22
23		20	1	BACK COUNTER REF.		720	B		1850	COND.		2	K	24
25	K	30		RAPID COOK	2880		A	1000		WALK-INS LIGHTS/MISC.	20	1		26
27	K		2	OVEN		2880	B		500	SODA STORAGE	20	1		28
29		20	1	FUTURE BEV.	1000		A	720		POS STATION	20	1		30
31				SPACE			B		900	SPARE	20	1		32
33		20	1	PREP TABLE	240		A			SPACE				34
35	K	20	1	DELI 1		1080	B		100	WATER HEATER CONTROLLER	20	1		36
37	K	20	1	DELI 2	1080		A	928		MAKE UP AIR	20	1		38
39	K	20	1	HOT WELL		500	B			SPACE				40
41		20	1	SAFE	500		A			SPACE				42
PHASE SUBTOTALS					18864	16915		12878	11730					

PHASE TOTALS (VA)	A: 31742	B: 28645		
			TOTAL CONNECTED VA	= 60387
			TOTAL CONNECTED KVA	= 61
			CODE L+M-CODE K KVA	= -16
			TOTAL CODED KVA	= 45
			PANELBOARD AMPS	= 196

REQUIRED WIRE SIZES PER BREAKER

ALL WIRING COPPER THHN/THWN

20 AMPERE	#12, #12G	80 AMPERE	#3, #8G	175 AMPERE	#2/0, #6G
30 AMPERE	#10, #10G	90 AMPERE	#3, #8G	200 AMPERE	#3/0, #6G
40 AMPERE	#8, #10G	100 AMPERE	#1, #8G	225 AMPERE	#4/0, #4G
50 AMPERE	#6, #10G	110 AMPERE	#2, #6G	250 AMPERE	250 kcmil, #4G
60 AMPERE	#4, #10G	125 AMPERE	#1, #6G	300 AMPERE	350 kcmil, #4G
70 AMPERE	#4, #8G	150 AMPERE	#1/0, #6G	400 AMPERE	500 kcmil, #3G

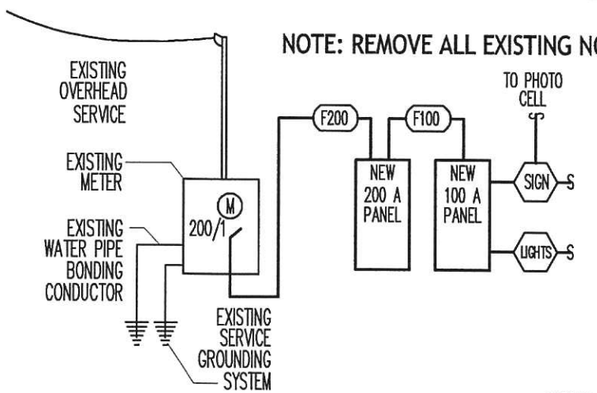
PANEL B

PANEL VOLTAGE: 120/240 VOLTS, 1PH, 3W
100 A/1P MAIN BREAKER

[20|1] BOLD BRACKETS INDICATE GROUND FAULT INTERRUPT BREAKER

CIRCUIT #	CODE	TRIP	POLE	DESCRIPTION	CONNECTED VA PH-A	CONNECTED VA PH-B		PH-A	PH-B		TRIP	POLE	CODE	CIRCUIT #
1	M	50		HVAC	4200		A	480		MENU BOARD	20	1		2
3	M		2			4200	B		500	OUTDOOR SIGN	20	1		4
5		20	1	FUTURE SMOOTHIE	1500		A	720		CL'G, CONV. OUTLETS	20	1		6
7	K	20	1	ICE MACHINE		1800	B			SPACE				8
9		20	1	EXHAUST FAN EF-H	500		A	500		AIR CURTAIN	20	1		10
11		20	1	HVAC SERVICE OUTLET		240	B		120	STEREO SYSTEM	20	1		12
13				SPACE			A	620		BATH LT'G/FAN	20	1		14
15				SPACE			B		155	DINING LIGHTS-SPOTS, PENDANTS	20	1	L	16
17				SPACE			A	448		SERVICE & KITCHEN LIGHTING	20	1	L	18
19				SPACE			B		170	SERVICE LIGHTING-CANS	20	1	L	20
21		20	1	EXIT SIGNS	100		A	396		DINING LIGHTING-CANS	20	1	L	22
23				SPACE			B		500	DEC. CEILING FANS	20	1	L	24
PHASE SUBTOTALS					6300	6240		3164	1445					

PHASE TOTALS (VA)	A: 9464	B: 7685		
			TOTAL CONNECTED VA	= 17149
			TOTAL CONNECTED KVA	= 18
			CODE L+M-CODE K KVA	= 3
			TOTAL CODED KVA	= 21
			PANELBOARD AMPS	= 92



NOTE: REMOVE ALL EXISTING NON-COMPLIANT ROMEX WIRING

SINGLE LINE DIAGRAM

NOT TO SCALE

LEGEND

LIGHTS — AUTOMATIC TIME SWITCH CONTROL FOR ALL INTERIOR LIGHTS

SIGN — AUTOMATIC TIME SWITCH CONTROL FOR EXTERIOR SIGN

PANEL A:
NEW 120/240V. 1PH. 3W. 200A. 42 SPACE PANEL
200A, 1P MAIN.

PANEL B:
NEW 120/240V 1PH. 3W. 100A. 24 SPACE PANEL
100A, 1P MAIN.
PROTECTED BY 100 AMP BREAKER AT PNL. A

F100 — 2"C – 4–#1/0, #6G

F200 — 2 1/2"C – 4–#3/0, #4G

ELECTRICAL REQUIREMENTS

ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT AS REQUIRED FOR A COMPLETE INSTALLATION OF ELECTRICAL SYSTEM SHOWN AND REASONABLY INFERRED AS NECESSARY BY THESE CONTRACT DOCUMENTS.

MATERIALS AND INSTALLATION SHALL COMPLY WITH THE CODES, ORDINANCES, AND REGULATIONS OF THE GOVERNING JURISDICTIONS.

ELECTRICAL CONTRACTOR SHALL GUARANTEE MATERIAL AND LABOR PROVIDED FOR A PERIOD OF ONE YEAR AFTER ISSUANCE OF OCCUPANCY CERTIFICATE.

ELECTRICAL CONTRACTOR SHALL VISIT SITE AND REVIEW ALL EXISTING CONDITIONS AND PROPOSED INSTALLATIONS PRIOR TO BID SUBMISSION. CONFIRMATION OF PRE-BID SITE VISIT SHALL BE NOTED WITHIN ELECTRICAL CONTRACTOR'S BID.

ELECTRICAL CONTRACTOR SHALL MAINTAIN TEMPORARY POWER FOR HEAT, LIGHTING AND POWER REQUIRED FOR ALL TRADES TO COMPLETE CONSTRUCTION. COST FOR SAME TO BE INCLUDED IN BID.

ALL CUTTING AND PATCHING OF BUILDING COMPONENTS FOR ELECTRICAL SYSTEM'S INSTALLATION SHALL BE COMPLETED BY THE ELECTRICAL CONTRACTOR. DO NOT CUT OR NOTCH PRIMARY STRUCTURAL MEMBERS.

MATERIALS AND EQUIPMENT SHALL BE LISTED BY U.L., E.T.L, C.S.A AND NATIONALLY RECOGNIZED TESTING AGENCIES. ALL MATERIAL, DEVICES AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED.

ELECTRICAL CONTRACTOR SHALL BALANCE PHASES SO THERE IS NO MORE THAN 10% DIFFERENCE BETWEEN PHASE LOADS.

PROVIDE COMPLETE METAL RACEWAY SYSTEMS AND ENCLOSURES FOR ALL LIGHTING, POWER AND TELEPHONE WIRING THROUGHOUT THE EXTENT OF THE REQUIRED SYSTEMS.

PROVIDE PULL WIRE IN EMPTY CONDUIT FOR PHONE AND DATA SYSTEMS OR AS OTHERWISE NOTED.

VERIFY ELECTRICAL REQUIREMENTS FOR EQUIPMENT WITH NAMEPLATE DATA ON EQUIPMENT PRIOR TO ENERGIZING SYSTEM.

ELECTRICAL CONTRACTOR SHALL CLEARLY IDENTIFY ALL CIRCUITS NY PURPOSE OR USE ON A CIRCUIT DIRECTORY LOCATED ON THE FACE OR INSIDE OF THE PANEL'S DOOR FOR ALL ELECTRICAL PANELS AND AT EACH SWITCH ON ALL SWITCHBOARDS.

BREAKERS SHALL BE SQUARE D OR CUTLER HAMMER INLINE BREAKERS, UNO.

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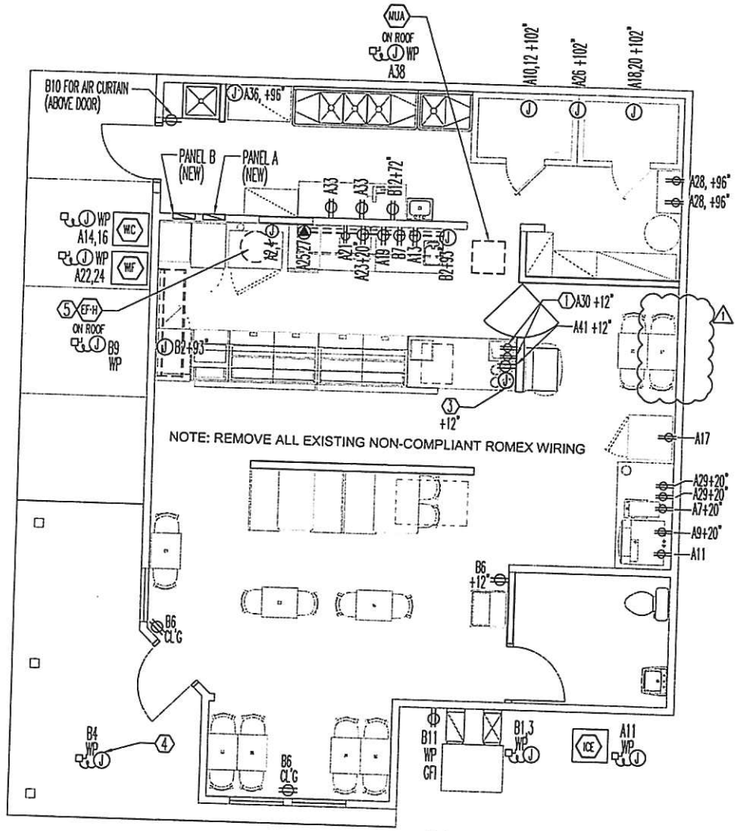
E1



POWER PLAN
3/16" = 1'-0"

LEGEND

⌽	DUPLEX RECEPTACLE–120V, +42" UNO
⌽ CL'G	DUPLEX RECEPTACLE–120V, IN CEILING CENTERED ON WINDOW OR DOOR BELOW
▼	HI VOLTAGE RECEPTACLE
▼	TELEPHONE JACK
J	JUNCTION BOX
Jp	JUNCTION BOX W/ PULL CORD FROM J BOX TO PANEL B (NO WIRING)
	DISCONNECT SWITCH
AFF	ABOVE FINISH FLOOR
GFI	GROUND FAULT INTERRUPTER CIRCUIT
WP	WATERPROOF CONNECTION

POWER PLAN KEY

1. ISOLATED GROUND OUTLETS FOR POS SYSTEM. PROVIDE HIGH SPEED DATA LINE AND MODEM TO THIS LOCATION.
2. NOT USED
3. LOCATION OF J BOX FOR FRONT LINE EQUIPMENT CIRCUITS A35,37,39. (EXTEND CONDUITS AND WIRING TO INDIVIDUAL FIXTURES AFTER EQUIPMENT IS SET IN PLACE.)
4. VERIFY SIGN'S ACTUAL LOCATION IN FIELD
5. APPROXIMATE LOCATION ON ROOF FOR NEW EXHAUST FAN. SEE MECH. PLANS FOR ADD'L INFO.

POWER PLAN NOTES

1. DIMENSIONS ABOVE FINISH FLOOR ARE GIVEN TO BOTTOM OF ELECTRICAL BOXES UNLESS NOTED OTHERWISE.
2. UNLESS OTHERWISE INDICATED MOUNT OUTLET BOXES 42" ABOVE FINISH FLOOR.
3. ONLY NEW OUTLETS ARE SHOWN. SEE PANEL BOARD SCHEDULES FOR EXISTING ITEMS TO BE RE-CIRCUITED.

⚠ 4/4/14

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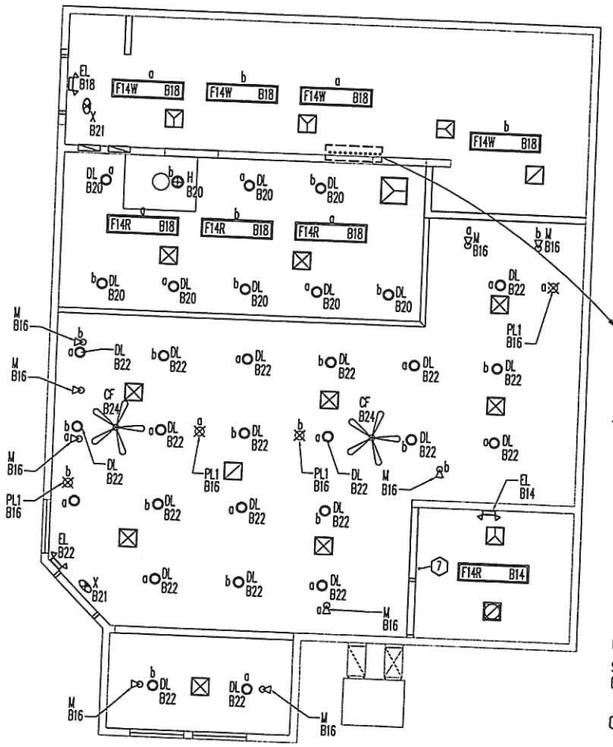
SUBWAY
STORE #02305

40840 SIERRA DRIVE
THREE RIVERS, CA 93271
PC 02/20/14

E2



LIGHTING PLAN
3/16" = 1'-0"

EMERGENCY LIGHTING

1. ALL EMERGENCY LIGHTING FIXTURES SHALL HAVE AN EMERGENCY POWER SUPPLY TO PROVIDE POWER FOR THE DURATION OF 90 MINUTES IN CASE OF PRIMARY POWER LOSS, UNO.

2. EMERGENCY EGRESS LIGHTING SHALL BE CONNECTED BY THE BRANCH LIGHTING CIRCUIT IN THE AREA SERVED, AHEAD OF ANY LOCAL SWITCHES. A LOCK-OUT FEATURE SHALL BE REQUIRED IF PANEL SUPPLIES THREE OR MORE CIRCUITS.

LIGHTING COMPLIANCE / T24

CERTIFICATE OF ACCEPTANCE (LTG-1-A) AND ALL RELATED ACCEPTANCE DOCUMENTS SHALL BE SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THESE FORMS ARE REVIEWED AND APPROVED.

SoSb SoSb SoSb S SoSb S
(1) (2) (3) (4) (5) OR

LIGHT SWITCH DIAGRAM

SWITCH LEGEND

SoSb (1) 2 SEPARATE SWITCHES FOR BI-LEVEL LIGHTING IN CUSTOMER AREA: FIXTURES "B22"

SoSb (2) 2 SEPARATE SWITCHES FOR BI-LEVEL LIGHTING IN CUSTOMER AREA: FIXTURES "PL1, M"

SoSb (3) 2 SEPARATE SWITCHES FOR BI-LEVEL LIGHTING IN SERVICE AREA: FIXTURES "DL" and "H1D"

SoSb (4) 2 SEPARATE SWITCHES FOR BI-LEVEL LIGHTING IN SERVICE AREA: FIXTURES "F14R"

S (5) SWITCH FOR DECORATIVE CEILING FANS: FIXTURES "CF"

SoSb (6) SWITCHES FOR BI-LEVEL LIGHTING IN BACKROOM AREA: FIXTURES "F14W"

S (7) OCCUPANCY SENSOR SWITCH- CONTROLS LIGHT AND EXHAUST FAN IN UNISEX RESTROOM.

OR OVERRIDE SWITCH- SWITCHES OFF ALL BUILDING LIGHTS, INTERLINK OVERIDE SWITCH W/ LIGHTING TIMER

LIGHTING LEGEND

SYMBOL	DESCRIPTION	MANUF.	FIXTURE #	QTY.	LAMP(S)	SUPPLIER	ORDER FROM	NOTES
DL	RECESSED DOWNLIGHT	LIGHTOLIER	1101F18U	30	(1) 18W CFL	S.L.G.	DAI	-
H	RECESSED DOWNLIGHT	CAPTIVAIRE	1.55 HIGH TEMP. ASSEMBLY	1	(1) 26W CFL	G.C.	MANUF.	
PL1	SMALL AMBER PENDANT LIGHT-SUSPENDED	TRUE TO FORM	SW/AST/6	4	(1) 5W FLUOR. MAXLITE MLS15EA	S.L.G.	DAI	(2)
M	MONOPOINT SPOTLIGHT	LIGHTOLIER	MONOPOINT 6190WH	9	(1) 15W LED LLAB030RF	S.L.G.	DAI	(4)
F14R	RECESSED FLUORESCENT 1' X 4'	LIGHTOLIER/ DAY-BRITE	1-DP-F-2-32-120	3	(2) 32W T8 FLUORESCENTS	S.L.G.	DAI	(1)
F14W	WRAPAROUND FLUOR. 1' X 4'	LIGHTOLIER/ DAY-BRITE	BW-N-2-120	5	(2) 32W T8 FLUORESCENTS	S.L.G.	DAI	
CF	CEILING FAN	QUORUM	CD-445	2	-	-	-	(3)
EL	EMERGENCY LIGHT	DUAL-LITE	LX SERIES	3	-	G.C.	-	-
X	EXIT SIGN	DUAL-LITE	LX SERIES	2	-	G.C.	-	-

(1) GYP. BD. CL'G INSTALLATION- ORDER WITH FLANGE KIT.

(2) INSTALL AT 6'-6" FROM FIN. FLR. TO BOTTOM OF FIXTURE. A 'PENDANT STEM KIT' IS AVAILABLE THROUGH SPECIALTY STORE LIGHTING FOR USE WITH HIGH CEILINGS. INSTALLATION OF CUSTOMER SEATING PRIOR TO LIGHT FIXTURE INSTALLATION IS RECOMMENDED TO ASSURE PRECISE PLACEMENT OF FIXTURES OVER TABLE TOPS.

(3) WITH 5 CHERRY FINISH BLADES. FIXTURE CAN BE INSTALLED AS DROP STYLE (WITH 6" OR 2" STEM) OR HUGGER STYLE (FLUSH.)

(4) MOUNTED TO J-BOX IN CEILING

D.A.I. DOCTOR'S ASSOCIATES INCORPORATED

G.C. GENERAL CONTRACTOR

S.L.G. SPECIALTY LIGHTING GROUP

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PC 02/28/14

E3

CERTIFICATE OF COMPLIANCE (Part 1 of 4) LTG-1C

Project Name			Date
Subway			2/27/14
Project Address: 40840 Sierra Drive Three Rivers, CA	Climate Zone: 13	Total Cond. Floor Area: 1114 sf	Unconditioned Floor Area: 0

GENERAL INFORMATION

Building Type:	☒ Nonresidential	☐ High-Rise Residential	☐ Hotel/Motel Guest Room
☐ School	☐ Relocatable Public School	☒ Conditioned Spaces	☐ Unconditioned Spaces
Phase of Construction:	☐ New Construction	☐ Addition	☒ Alteration
Method of Compliance:	☐ Complete Building	☒ Area Category	☐ Tailored

Documentation Author's Declaration Statement

I certify that this Certificate of Compliance documentation is accurate and complete.

Name: Gary Kerr	Signature: [signature]
Company: Gary Kerr, Architect	Date: 2/27/14
Address: 23917 Bennington Drive	CEA# CEPE#
City, State, Zip: Valencia, CA 93219	Phone: 630-290-9823

The Principal Lighting Designer's Declaration Statement

- I am elegible under Division 3 of the California Business and Professional Code to accept responsibility for the lighting design.
- This Certificate of Compliance identifies the lighting fixtures and performance specifications required for compliance with Title 24, Pages 1 and 6 of the California Code of Regulations.
- The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Name: Gary Kerr	Signature: [signature]
Company: Gary Kerr, Architect	Date: 2/27/14
Address: 23917 Bennington Drive	License#: C19693
City, State, Zip: Valencia, CA 93219	Phone: 630-290-9823

Lighting Mandatory Measures

Indicate location on building plans of Mandatory Measures Note Block: E6

LIGHTING COMPLIANCE FORMS & WORKSHEETS (check box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms; please refer to the Nonresidential Manual published by the California Energy Commision.

☒ LTG-1C Pages 1 through 4	Certificate of Compliance. All pages required on plans for all submitals.
☐ LTG-2C	Lighting Controls Credit Worksheet
☒ LTG-3C	Indoor Lighting Power Allowance
☐ LTG-4C Pages 1 through 4	Tailored Method Worksheet
☐ LTG-5C Pages 1 and 2	Line Voltage Track Lighting Worksheet

CERTIFICATE OF COMPLIANCE (Part 2 of 4) LTG-1C

Project Name: Subway — Date: 2/27/14

INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Installation Certificate, LTG-1-INST (Retain a copy and verify form is completed and signed.)	Field Inspector ☐
Certificate of Acceptance, LTG-2A and LTG-3A (Retain a copy and verify form is completed and signed.)	Field Inspector ☐

A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces Installed Lighting Power listed on this Lighting Schedule is only for:

☒ CONDITIONED SPACE ☐ UNCONDITIONED SPACE

☒ The actual indoor power lighting listed below includes all installed permanent and portable lighting systems in accordance with § 146 (a).

☐ Only for offices: Up to the first 0.2 watts per square foot of portable lighting shall not be required to be included in the calculation of actual indoor lighting power density in accordance with the Exception to§ 146 (a). All portable lighting in excess of 0.2 watts per square foot is totaled below.

Luminaire (Type, Lamps, Ballasts)		Installed Watts							
A	B	C	D	E		F	G	H	
				How wattage Was determined				Field Inspector [2]	
	Complete Luminaire Description [1] (i.e, 3 lamp fluorescent troffer, F32T8F, one dimmable electronic ballasts)		Watts per Luminaire [1]	CEC Default From NA8	According To § 130 (d or e)	Number of Luminaires	Installed Watts Watts (D X F)	Pass	Fail
DL	Downlight		18.0	☒	☐	30	540	☐	☐
F14	1' x 4' Fluorescent		64.0	☒	☐	8	512	☐	☐
HD	Hood Light		26.0	☒	☐	1	26	☐	☐
M	Monopoint Spot		15.0	☒	☐	9	135	☐	☐
P1	Pendant Light- Small		5.0	☒	☐	4	20	☐	☐
				☐	☐			☐	☐
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					Building total number of pages:		1,233		
	Building total number of pages:	1		Installed Watts Building Total (Sum of all pages) Enter into LTG-1C Page 4 of 4			1,233		

1. Wattage shall be determined according to Section 130 (d and e). Wattage shall be rating of light fixture, not rating of bulb.
2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

LICENSED ARCHITECT — GARY ARTHUR KERR ★ C19693 — RENEWAL 4/30/2015 — STATE OF CALIFORNIA

GARY KERR · ARCHITECT

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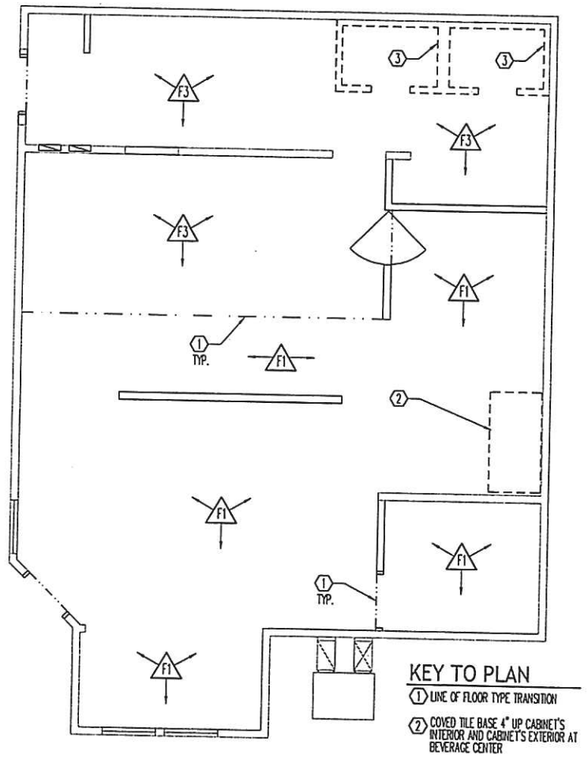
E4



KEY TO PLAN

1. LINE OF FLOOR TYPE TRANSITION
2. COVED TILE BASE 4" UP CABINET'S INTERIOR AND CABINET'S EXTERIOR AT BEVERAGE CENTER
3. COVED TILE BASE 4" UP WALK-IN'S INTERIOR AND EXTERIOR ALTERNATE MATERIAL OPTION: COVED STAINLESS STEEL BASE

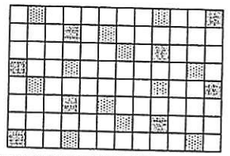
FLOOR FINISH PLAN

3/16" = 1'-0"

FLOOR FINISH LEGEND -TUSCANY II DECOR (RANDOM PATTERN)

SYM.	AREA OF STORE	MANUF.	SUPPLIER	INSTALLER	SQ FT	DESCRIPTION
F1	CUSTOMER AREA	CROSSVILLE	G.C.	G.C.	565	RANDOM PATTERN: COLORBLOX STONE SERIES; 12" X 12" A1156 WHEAT / COLORBLOX STONE SERIES; 12" X 12" A1154 GREEN / COLORBLOX STONE SERIES; 12" X 12" A1153 CLAY
F2	RESTROOM	CROSSVILLE	G.C.	G.C.	49	COLORBLOX STONE SERIES; 12" X 12" A1156 WHEAT WITH DARK GREY OR DARK BROWN GROUT (MATCH EXISTING)
F3	SERVICE/BACKROOM	CROSSVILLE	G.C.	G.C.	416	COLORBLOX STONE SERIES; 12" X 12" A1156 WHEAT WITH DARK GREY OR DARK BROWN GROUT (MATCH EXISTING)

1. FLOORING CONTRACTOR IS RESPONSIBLE FOR OWN DETERMINATIONS ON SUBFLOOR REQUIREMENTS AND TO INSTALL IN ACCORDANCE WITH CODE REQUIREMENTS AND TO INDUSTRY AND MANUFACTURER SPECIFICATIONS.
2. THE SQUARE FOOTAGE CALCULATIONS OF THE FLOORING MUST BE VERIFIED BY THE G.C. AND FRANCHISE OWNER. ARCHITECT & SUBWAY STORE DESIGN DEVELOPMENT WILL NOT ACCEPT RESPONSIBILITY FOR QUANTITIES SHOWN.



RANDOM FLOOR TILE PLACEMENT EXAMPLE

FLOOR TILE KEY

- COLORBLOX SERIES; 12" X 12" A1156 WHEAT
- COLORBLOX SERIES; 12" X 12" A1154 GREEN
- COLORBLOX SERIES; 12" X 12" A1153 CLAY

WHEN INSTALLING THE RANDOM PATTERN, THE PERCENTAGES OF THE ABOVE COLORS ARE AS FOLLOWS: WHEAT - 80%; GREEN - 12%; CLAY - 8% (THE GREEN AND CLAY SHOULD BE DISTRIBUTED EVENLY, BUT RANDOMLY THROUGHOUT AS NOT TO REPRESENT A NOTICEABLE PATTERN) USE DARK GREY OR DARK BROWN GROUT THROUGHOUT ENTIRE CUSTOMER AREA

WALL BASE LEGEND -TUSCANY II DECOR

NOTE: WALL BASE MUST MATCH FLOOR TILE IN ALL AREAS OF STORE

AREA OF STORE	MANUF.	SUPPLIER	INSTALLER	DESCRIPTION
ALL AREAS*	CROSSVILLE	G.C.	G.C.	6" X 12" COVE BASE: COLORBLOX STONE SERIES A1156 WHEAT WITH DARK GREY OR DARK BROWN GROUT.

COVED BASE REQUIREMENT

IN BACKROOM, SERVICE AREA, WALK-INS, UNISEX TOILET ROOM AND BEHIND BEVERAGE CENTER: PROVIDE A CONTINUOUS 3/8" RADIUS COVE BASE AND EXTEND CERAMIC TILE BASE UP WALL 4" MINIMUM.

*BULLNOSE BASE MAY BE INSTALLED AS AN OPTION AT THE DINING AREA ONLY

4" X 12" BULLNOSE: COLORBLOX STONE SERIES A1156 WHEAT WITH DARK GREY OR DARK BROWN GROUT.

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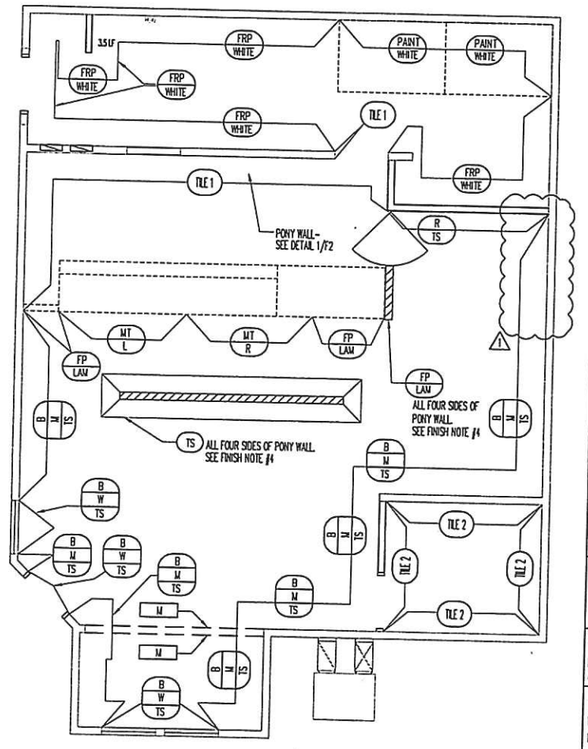
F1



WALL FINISH PLAN

3/16" = 1'-0"

WALL FINISH LEGEND — TUSCANY II DECOR

SYMBOL	DESCRIPTION	MANUFACTURER	SUPPLY	INST.	QUANTITY*	REMARKS
B	BUTTERNUT BRICK WALLCOVERING	SUNGLO FABRICS	D.A.I.	G.C.	4 YARDS	VINYL WALLCOVERING
M	SUBWAY MURAL WALLCOVERING	SUNGLO FABRICS	D.A.I.	G.C.	30 YARDS	VINYL WALLCOVERING WITH UPPER DECORATIVE TRIM MOLDING AS REQUIRED
TS	TUSCAN STUCCO WALLCOVERING	SUNGLO FABRICS	G.C.	G.C.	35 YARDS	VINYL WALLCOVERING WITH LOWER CHAIR RAIL MOLDING AS REQUIRED
FP LAM	CABINET/WALL LAMINATE FONT-HILL PEAR #10745-60	WILSONART	G.C.	G.C.	(1) 4'X12' SHEET	INSTALL GRAIN HORIZONTALLY
FRP WHITE	FIBERGLASS REINFORCED PANELS P-100 WHITE	MARLITE	D.A.I.	G.C.	19 PANELS	PVC DIVISION MOLDING: (18) PVC INSIDE CORNER: (6) PVC OUTSIDE CORNER: (3) PVC CAP MOLDING: (6)
MT L/R	MOSAIC TILE VEGETABLE GRAPHICS	IMAGINE TILE	D.A.I.	G.C.	1 LEFT 1 RIGHT	4 1/4" X 4 1/4" GRAPHIC CERAMIC TILES FRAMED BY 1A LIGHT CHERRY. "L" DENOTES LEFT, "R" DENOTES RIGHT
PAINT WHITE	PAINTED GYPSUM BOARD SW "OFF-WHITE"	SHERWIN WILLIAMS	G.C.	G.C.	-	SEMI-GLOSS FINISH. ALTERNATE COLOR MATCH FOR "OFF WHITE:" SW 7568 NEUTRAL GROUND
R	RED WALLCOVERING	SUNGLO FABRICS	D.A.I.	G.C.	4 YARDS	VINYL WALLCOVERING
T1	GRINALDI CERAMIC TILE	ASSOCIATED ACC/ INTERNATIONAL LTD.	G.C.	G.C.	-	8" X 8" CERAMIC TILES. COLORS: CURRY (YELLOW) #52575 MATTE FINISH MUSCO (GREEN) #52576 MATTE FINISH GROUT COLOR: #41 KASHMIR BY LATICRETE
T2	COLORBLOX	CROSSVILLE	G.C.	G.C.	-	CHOOSE FROM 1 OR MORE OF THE FOLLOWING: A1135 CLAY, A1154 GREEN, A1156 WHEAT
W	WINDOW FRAME (STOREFRONT ALUM. OR WOOD)					PAINT STOREFRONT FRAME W/ SW 6356 COPPER MOUNTAIN (2 COATS OF SOLO SATIN OVER PROCRYL.) WITH CITYSCAPE MURAL AND UPPER DECORATIVE TRIM MOLDING AS REQUIRED

QUANTITY DATA PROVIDED BY D.A.I.

NEITHER THE ARCHITECT OR SUBWAY STORE DESIGN DEPARTMENT ACCEPTS RESPONSIBILITY FOR INACCURACIES IN QUANTITY CALCULATIONS, WHICH MUST BE VERIFIED BY THE G.C. AND THE SUBWAY FRANCHISE OWNER BEFORE ANY ORDER FOR THESE MATERIALS IS ACCEPTED AND PLACED. CALCULATIONS INCLUDE MATERIALS ABOVE WINDOWS.

WOOD LOWER CHAIR RAIL MOLDING:	56 LF	T-MOLDING AT SERVICE AREA:	(1) 12' STRIPS
BASE MOLDING:	81 LF	FRONT DECOR PANELS (MOSAIC TILE):	(1) LEFT, (1) RIGHT
HARDWOOD CROWN MOLDING:	104 LF	SEE TUSCANY II BACK-UP SHEETS FOR INSTALLATION REQUIREMENTS.	

FINISH NOTES

1. ALL WOOD INTERIOR DOORS, DOOR FRAMES, CHAIR RAIL MOLDING AND CROWN MOLDING TO BE STAINED WITH MINWAX #235 CHERRY AND POLYURETHANED W/ MINWAX FAST-DRYING CLEAR SATIN.

2. ALL METAL DOORS AND FRAMES TO BE PAINTED WITH SHERWIN WILLIAMS TRICORN BLACK (SW 6258.)

3. INSTALL FRP VERTICALLY IN BACKROOM TO A MINIMUM HEIGHT OF 8'-0" A.F.F.

4. CAP PONY WALLS W/ HARDWOOD PLANKS STAINED MINWAX #235 CHERRY AND POLYURETHANED W/ MINWAX FAST-DRYING CLEAR SATIN. OPTIONAL PONY WALL CAP MATERIAL: CHIPPED CHOCOLATE #910ACS SOLID SURFACE.

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ENVIRONMENTAL HEALTH DIVISION (EHD) REQUIREMENTS

FINISHES

EXCEPT IN DINING AND RETAIL SALES AREAS, FLOORS IN FOOD FACILITIES SHALL BE DURABLE, SMOOTH AND IMPERVIOUS TO WATER, GREASE AND ACID AND OF EASILY CLEANABLE CONSTRUCTION.

FLOOR SURFACES SHALL CONTINUE UP THE WALL FOR AT LEAST 4" FORMING A 3/8" RADIUS AT THE FLOOR/WALL JUNCTURE IN ALL KITCHENS, FOOD PREPARATION AREAS, AREAS WHERE FOOD IS STORED IN OPEN CONTAINERS, JANITORIAL ROOMS, TOILET ROOMS, ROOMS WHERE ANY UTENSIL IS WASHED, AND OTHER RELATED AREAS.

FLOOR SURFACES WHICH CONTAIN NON-SKID AGENTS SHALL BE RESTRICTED TO TRAFFIC AREAS ONLY. FLOORING UNDER EQUIPMENT AND AT THE FLOOR/WALL JUNCTURE SHALL BE COMPLETELY SMOOTH.

WALL SURFACES SHALL BE FINISHED WITH SMOOTH, NON-ABSORBENT, EASILY CLEANIBLE SURFACES. EXCEPTIONS: CUSTOMER AREAS, ROOMS WHERE FOOD IS ONLY STORED IN ORIGINAL SHIPPING CONTAINERS, AND ALCOHOLIC BEVERAGE BARS.

WALL SURFACES ADJACENT TO SINKS SHALL BE COVERED WITH A DURABLE, WATER-RESISTANT MATERIAL EXTENDING FROM THE TOP OF THE COVED BASE TO AT LEAST 12" ABOVE THE BACKSPLASH.

CEILINGS, EXCEPT IN BAR AREAS; ROOMS WHERE FOOD IS STORED IN ORIGINAL UNOPENED CONTAINERS; AND IN CUSTOMER AREAS, SHALL BE DURABLE, SMOOTH, NON-ABSORBENT, AND EASILY CLEANABLE.

BACKUP STORAGE

PROPOSED SHELVING IS 18" DEEP X 3 TIERS MINIMUM.

SHELVING INSTALLED AGAINST WALLS SHALL HAVE 1" OPEN SPACE BETWEEN BACK EDGE OF SHELF AND WALL SURFACE OR SHELF SHALL BE SEALED TO THE WALL WITH SILICONE SEALANT.

SHELVES SHALL HAVE ROUND, 6" TALL METAL LEGS TO PROVIDE A CLEAR UNOBSTRUCTED VIEW TO AREA BELOW BOTTOM SHELF.

MAINTAIN 6" MINIMUM FROM FLOOR TO LOWEST SHELF.

BATHROOMS

HANDWASHING SINK(S) SHALL PROVIDE HOT AND COLD WATER THROUGH A MIXING FAUCET THAT SUPPLIES 100 DEGREE MINIMUM WATER FOR A MINIMUM OF 15 SECONDS WHILE BOTH HANDS ARE FREE FOR WASHING.

A DISPENSER ADJACENT TO THE SINK SHALL PROVIDE HANDWASHING CLEANSER, AND A DISPENSER FOR SINGLE SANITARY PAPER TOWELS WILL BE PROVIDED. (A HEATED-AIR HAND DRYER MAY BE PROVIDED IN LIEU OF THE PAPER TOWEL DISPENSER.)

A TOILET PAPER DISPENSER SHALL BE PROVIDED FOR EACH TOILET.

DOORS SHALL BE SELF-CLOSING AND TIGHT-FITTING.

EQUIPMENT

ALL NEW AND REPLACEMENT FOOD AND UTENSIL RELATED EQUIP. SHALL BE LISTED BY ONE OF THE FOLLOWING: NSF INTERNATIONAL, INTERTEK TESTING SERVICES, C.S.A. OR U.L. SANITATION.

ALL SHOW AND DISPLAY CASES, COUNTERS, SHELVES, TABLES, REFRIGERATION EQUIP., SINKS, ETC. SHALL BE MADE OF NON-TOXIC, NON-CORROSIVE MATERIALS AND CONSTRUCTED AND INSTALLED TO BE READILY CLEANABLE.

USED EQUIPMENT IS SUBJECT TO FIELD EVALUATION BY EHD INSPECTOR.

ALL EQUIP. SHALL BE INSTALLED ON 6" HIGH ROUND METAL LEGS OR APPROVED CASTERS; ATTACHED TO THE WALL WITH MIN. 6" CLEAR UNDERNEATH, OR SEALED TO THE FLOOR.

PRESSURIZED CYLINDERS SHALL BE SECURELY FASTENED TO ADJACENT WALL.

PRODUCE FOGGERS SHALL NOT BE USED AS A RESERVOIR TO HOLD WATER, BUT SHALL USE WATER UNDER PRESSURE FOR MISTING OF FOODS.

THREE COMPARTMENT SINK(S) MAY HAVE COMPARTMENTS 18" X 18" X 12" DEEP MIN., BUT COMPARTMENTS MUST BE LARGE ENOUGH TO FULLY IMMERSE THE LARGEST EQUIPMENT AND UTENSILS USED. DRAINBOARDS SHALL BE 18" X 18" MIN. SINK MUST DRAIN TO AN APPROVED FLOOR SINK WITH A ONE INCH AIR GAP BETWEEN DRAIN BOTTOM AND SINK RIM.

FOOD PREPARATION SINK(S) MUST HAVE COMPARTMENTS 18" X 18" X 12" DEEP WITH AN INTEGRAL DRAINBOARD, MINIMUM DIMESIONS 18" X 18" MIN. SINK MUST DRAIN TO AN APPROVED FLOOR SINK WITH A ONE INCH AIR GAP BETWEEN DRAIN BOTTOM AND SINK RIM.

REFRIGERATION

PROPOSED REFRIGERATION EQUIPMENT IS NSF LISTED AND COMPLIES WITH EHD REQUIREMENTS FOR TEMPERATURE CONTROL, VISIBLE THERMOMETER, SHELVING MATERIAL, DIRECT ACCESS FROM FOOD PREPARATION AREAS, AND CLEANABLE SURFACES.

CONDENSATE WASTE, WHERE REQUIRED SHALL DRAIN INTO FLOOR SINKS WITH A ONE INCH AIR GAP BETWEEN DRAIN BOTTOM AND SINK'S RIM. COOLING COILS, RELATED ELECTRICAL DRAINAGE AND REFRIGERANT LINES SHALL BE INSTALLED IN A SAFE AND EASILY CLEANABLE MANNER. DRAINAGE AND REFRIGERANT LINES SHALL BE OF NON-TOXIC MATERIAL OR PROPERLY INSULATED OR COVERED WITH AN APPROVED, EASILY CLEANABLE NON-TOXIC MATERIAL.

WALK-IN UNITS

WALK-IN UNITS SHALL HAVE EHD-APPROVED FLOORING THAT CONTINUES UP THE WALL AT LEAST 4" FORMING A 3/8" RADIUS AT THE FLOOR/WALL JUNCTURE. METAL COVING WITH A 3/8" RADIUS AGAINST METAL WALL SURFACES IS AN ACCEPTABLE OPTION FOR WALK-IN UNITS.

WALK-IN UNITS SHALL HAVE METAL SHELVING ON 6" TALL METAL LEGS OR HAVE METAL WALL HUNG SHELVING WITH A MINIMUM 6" UNDERNEATH. WOOD SHELVING SHALL NOT BE USED.

ICE MACHINE(S)

ICE MACHINE(S) SHALL BE LOCATED IN AN EASILY CLEANABLE AREA WITH EHD APPROVED FLOOR, BASE, AND CEILING FINISHES AND SHALL BE DRAINED TO AN APPROVED FLOOR SINK WITH A 1" AIR GAP BETWEEN BOTTOM OF DRAIN AND TOP OF SINK'S RIM.

BACKFLOW PREVENTION

EHD APPROVED BACKFLOW PREVENTION DEVICES SHALL BE PROVIDED ON WATER SUPPLY LINES TO THE FOLLOWING ITEMS (WHERE PROVIDED:) SINKS WITH THREADED SPIGOTS, WAREWASHING MACHINES, GARBAGE DISPOSAL FLUSH LINES, STEAM EQUIPMENT, URINALS, TOILETS, BEVERAGE DISPENSERS, ICE MACHINES, LANDSCAPE IRRIGATION SYSTEMS, AS WELL AS OTHER FIXTURES WHEN REQUIRED BY EHD.

FLOOR SINKS

ALL FLOOR SINKS SHALL BE INSTALLED FLUSH WITH THE FINISHED FLOOR SURFACE AND HAVE APPROPRIATE GRATES.

FLOOR SINKS SHALL HAVE ALL CONDENSATE AND SIMILAR LIQUID WASTE DRAINED VIA A LEGAL AIR GAP.

FLOOR SINKS SHALL HAVE HORIZONTAL RUNS OF DRAIN LINES THAT ARE AT LEAST 3/4" FROM THE WALL AND 6" OFF THE FLOOR TERMINATING AT LEAST 1" ABOVE THE RIM OF THE FLOOR SINK. DRAIN LINES SHALL DESCEND CONTINUOUSLY AT A MINIMUM SLOPE OF 1/4" PER FOOT.

FLOOR SINKS SHALL BE LOCATED SO THEY ARE READILY ACCESSIBLE FOR INSPECTION, CLEANING, AND REPAIR: AT LEAST HALF EXPOSED OR IN LINE WITH THE FRONT FACE OF ELEVATED FREESTANDING EQUIPMENT.

FLOOR SINKS SHALL BE WITHIN 15' OF THE EQUIPMENT SERVED AND BE LOCATED SO THAT WASTE LINES LEADING TO THEM DO NOT CROSS AISLES, TRAFFIC AREAS OR DOORWAYS.

LIGHTING

PROVIDE AT LEAST 20 FOOTCANDLES OF LIGHT MEASURED 30" ABOVE THE FLOOR IN THE FOLLOWING AREAS:
EVERY ROOM OR AREA USED FOR HANDWASHING, WAREWASHING, STORAGE OF EQUIPMENT OR UTENSILS, IN TOILET ROOMS, INSIDE EQUIPMENT SUCH AS REACH-IN OR UNDERCOUNTER REFRIGERATORS, AT SURFACES WHERE FOOD IS PROVIDED FOR CUSTOMER SELF-SERVICE, AND WHERE FRESH PRODUCE OR PRE-PACKAGED FOODS ARE SOLD OR OFFERED FOR CONSUMPTION.

PROVIDE AT LEAST 50 FOOTCANDLES OF LIGHT MEASURED 30" ABOVE THE FLOOR IN THE FOLLOWING AREAS:
WORKING SURFACES ON WHICH FOOD EMPLOYEES ARE WORKING WITH FOOD OR UTENSILS OR EQUIPMENT SUCH AS KNIVES, SLICERS, GRINDERS (WHEREVER EMPLOYEE SAFETY IS A FACTOR) AND IN ALL OTHER ROOMS DURING PERIODS OF CLEANING.

PROVIDE AT LEAST 10 FOOTCANDLES OF LIGHT MEASURED 30" ABOVE THE FLOOR IN THE FOLLOWING AREAS:
WALK-IN REFRIGERATION UNITS AND DRY FOOD STORAGE AREAS.

LIGHT FIXTURES IN AREAS WHERE FOOD IS PREPARED, WHERE OPEN FOOD IS STORED, OR WHERE UTENSILS ARE CLEANED SHALL BE OF SHATTERPROOF CONSTRUCTION OR SHALL BE PROTECTED WITH SHATTERPROOF SHIELDS AND SHALL BE EASILY CLEANABLE.

CONDUIT

WHEREVER POSSIBLE, CONCEAL PLUMBING, ELECTRICAL AND GAS LINES WHITHIN THE STRUCTURE. (IF NOT POSSIBLE, MAINTAIN 3/4" CLEARANCE FROM WALLS AND CEILINGS AND 6" FROM FLOOR.) TIGHTLY SEAL PENETRATIONS OF WALLS, CEILINGS AND FLOORS. LINES MAY NOT CROSS AISLES, TRAFFIC AREAS OR DOOR OPENINGS. MULTIPLE RUNS OR CLUSTERS SHALL BE FURRED IN AND ENCASED IN EHD APPROVED RUNWAYS OR SEALED ENCLOSURES.

GENERAL CONDITIONS

GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VISIT SITE PRIOR TO SUBMITTING THEIR BIDS. SUBMISSION OF BIDS SHALL BE AN ACKNOWLEDGEMENT OF GENERAL CONTRACTOR AND SUBCONTRACTOR'S FAMILIARITY WITH EXISTING SITE CONDITIONS. ANY CONFLICTS IDENTIFIED DURING PRE-BID SITE VISIT SHALL BE BROUGHT TO OWNER AND ARCHITECT'S ATTENTION FOR RESOLUTION PRIOR TO SUBMITTAL OF BIDS.

GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL MAINTAIN ALL NECESSARY INSURANCE COVERAGE AS REQUIRED BY, BUT NOT LIMITED TO: OWNER, SUBWAY, LANDLORD, MUNICIPAL, STATE AND FEDERAL ENTITIES.

GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL MAINTAIN CURRENT LICENSES AS REQUIRED BY MUNICIPAL, STATE AND FEDERAL ENTITIES WITH JURISDICTION OVER THE PROJECT.

GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL PERFORM WORK IN COMPLIANCE WITH ALL REQUIREMENTS, LAWS AND ORDINANCES OF MUNICIPAL, STATE AND FEDERAL ENTITIES WITH JURISDICTION OVER THE PROJECT.

GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL REPAIR, AT THEIR OWN EXPENSE, ANY EXISTING ITEM, SURFACE, MATERIAL, FINISH, ETC. TO REMAIN THAT IS DAMAGED DURING THE EXECUTION OF THE WORK.

GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL COORDINATE THE WORK OF ALL TRADES FOR EFFICIENT AND TIMELY EXECUTION OF THE WORK.

GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL MEET WITH OWNER PRIOR TO COMMENCING WORK FOR A PRE-CONSTRUCTION DETERMINATION OF ANY PROPOSED ADDITIONS OR DELETIONS TO THE WORK. ANY CHANGE ORDERS GENERATED BY THE PRE-CONSTRUCTION MEETING SHALL BE CLEARLY ITEMIZED WITH COSTS FOR SAID CHANGES, AND PRESENTED TO OWNER FOR WRITTEN AUTHORIZATION PRIOR TO COMMENCEMENT OF WORK.

ANY CHANGE ORDERS GENERATED DURING THE PROJECT'S CONSTRUCTION SHALL BE CLEARLY ITEMIZED WITH COSTS FOR SAID CHANGES, AND PRESENTED TO OWNER FOR WRITTEN AUTHORIZATION PRIOR TO EXECUTION OF ANY CHANGE ORDER.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, SUPERVISION AND SAFETY PROGRAMS EMPLOYED DURING THE PROJECT.

GENERAL CONTRACTOR SHALL MAINTAIN BARRICADES, SECURITY PARTITIONS, ETC. AS REQUIRED TO PREVENT UNATHORIZED ENTRY TO THE PROJECT.

GENERAL CONTRACTOR SHALL MAINTAIN DUST BARRIERS AS NECESSARY TO ISOLATE THE AREA OF WORK FROM SURROUNDING NEIGHBORS AND ADJACENT EXTERIOR AREAS.

GENERAL CONTRACTOR SHALL MAINTAIN THE PREMISES DURING THE EXECUTION OF THE WORK, KEEPING THE PROJECT SITE FREE FROM THE ACCUMULATION OF WASTE MATERIALS AND RUBBISH. ALL WASTE MATERIALS AND RUBBISH SHALL BE DISPOSED OF IN COMPLIANCE WITH MUNICAPAL, STATE AND FEDERAL REGULATIONS.

WORK SHALL BE PERFORMED IN A MANNER AND DURING TIMES THAT MINIMIZE DISRUPTIONS TO THE BUSINESS OPERATIONS OF SURROUNDING NEIGHBORS.

GENERAL CONTRACTOR SHALL WARRANTY ALL WORK FOR A PERIOD OF ONE YEAR COMMENCING FROM ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.

CONSTRUCTION REQUIREMENTS

GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY BLOCKING IN WALLS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED/WALL HUNG ITEMS.

ANY PENETRATIONS THROUGH FIRE-RATED WALLS SHALL BE SEALED WITH FIRE-STOPPING MATERIAL AS REQUIRED TO MAINTAIN WALL'S FIRE-RESISTIVE RATING. PENETRATING ITEMS SHALL BE COMPRISED OF ONLY THOSE MATERIALS ALLOWED BY THE WALL'S FIRE-RATING.

GENERAL CONTRACTOR SHALL SECURE ALL LOCKERS TO ADJACENT WALLS PRIOR TO FINAL INSPECTION.

GYPSUM WALL BOARD SHALL BE INSTALLED PER THE USG GYPSUM CONSTRUCTION HANDBOOK, AVAILABLE ONLINE:
http://www.usg.com/index.html

GYPSUM WALL BOARD IN TOILET ROOM(S) SHALL BE WATER RESISTANT.

LICENSED ARCHITECT
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RENEWAL
4/30/2015
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GS1

SOILS AND FOUNDATIONS

1. MAXIMUM DESIGN SOIL PRESSURE IS 1000 PSF FOR CONTINUOUS FOOTINGS AND PAD FOOTING PER CBC MINIMUM. (NO SOILS REPORT PROVIDED.)
2. ALL FOOTINGS TO BE A MINIMUM OF 12" BELOW NATURAL GRADE MEASURED TO BOTTOM OF FOOTING.
3. FINISH EXCAVATION FOR FOUNDATIONS SHALL BE NEAT AND TRUE WITH ALL LOOSE MATERIAL REMOVED FROM THE EXCAVATION.
4. FOOTING EXCAVATIONS SHALL BE KEPT FREE FROM LOOSE MATERIAL AND STANDING WATER. BEFORE ANY CONCRETE IS PLACED ANY LOOSE SOILS AND/OR STANDING WATER SHALL BE REMOVED.
5. SIDES OF FOOTINGS MAY BE POURED AGAINST STABLE EARTH UNLESS OTHERWISE DIRECTED BY THE DESIGNER OF RECORD.
6. PROPOSED PIPING SLEEVE REINFORCEMENT METHODS (IF NECESSARY) MUST BE PRESENTED TO DESIGNER OF RECORD FOR APPROVAL PRIOR TO PLACING CONCRETE.
7. PROTECT ALL UTILITY LINES ENCOUNTERED DURING EXCAVATION AND BACKFILLING. NOTIFY DESIGNER OF RECORD PRIOR TO PROCEEDING WITH WORK IF EXISTING UTILITY LINE LOCATIONS OBSTRUCT/PREVENT EXCAVATION AND PLACEMENT OF CONCRETE AS INDICATED WITHIN PLANS.
8. BRACE/PROTECT FROM LATERAL LOADS ANY RETAINING WALLS INDICATED UNTIL ATTACHING FLOORS OR SLABS ARE COMPLETELY IN PLACE AND HAVE ACHIEVED FULL DESIGN STRENGTH OR ARE SHEATHED.
9. MECHANICALLY COMPACT FOOTING BACKFILL AND UTILITY TRENCH BACKFILL TO 90% MAXIMUM DRY DENSITY. FLOODING METHOD OF COMPACTION IS NOT ACCEPTABLE/NOT PERMITTED.
10. ALL HOLDOWNS AND ANCHOR BOLTS SHALL BE TIED IN PLACE PRIOR TO FOUNDATION INSPECTION.

CONCRETE

1. CONCRETE SHALL HAVE THE FOLLOWING ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS:

SLAB ON GRADE (NO SPECIAL INSPECTION):	2500 PSI
FOOTINGS:	2500 PSI

2. COMPRESSIVE STRENGTH TESTS SHALL BE SUBMITTED TO THE DESIGNER OF RECORD WHENEVER CONCRETE REQUIRES SPECIAL INSPECTION. SPECIAL INSPECTION IS REQUIRED FOR ALL CONCRETE WITH F'C GREATER THAN 2500 PSI.
3. CEMENT SHALL CONFORM TO ASTM C-150, TYPE I OR TYPE II.
4. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C-33. AGGREGATE FOR LIGHT WEIGHT CONCRETE SHALL CONFORM TO ASTM C-330.
5. READY MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C-94-81.
6. ADMIXTURES MAY ONLY BE USED AFTER RECEIVING APPROVAL FROM THE DESIGNER OF RECORD. APPROVED ADMIXTURES COMPLYING WITH ASTM A494 SHALL NOT REDUCE THE SPECIFIED MINIMUM CEMENT CONTENT. CALCIUM CHLORIDE SHALL NOT BE USED AS AN ADMIXTURE.
7. WATER SHALL BE CLEAN, FREE FROM DELETERIOUS AMOUNTS OF ACIDS, ALKALIS AND ORGANIC MATERIALS.
8. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS OR GROUNDS TO BE CAST INTO CONCRETE AND FOR EXTENT AND LOCATION OF DEPRESSIONS, CURBS AND RAMPS.
9. THE MAXIMUM SLUMP SHALL NOT EXCEED 4" FOR FOOTINGS, SLAB ON EARTH AND MASS CONCRETE. MAXIMUM SLUMP SHALL NOT EXCEED 5" FOR OTHER CONCRETE. DURING TEMPERATURES EXCEEDING 80 F, MAXIMUM SLUMP OF 6" IS PERMISSIBLE PROVIDED THE MIX DESIGN IS REVISED ACCORDINGLY BY THE CONCRETE PROVIDER'S TESTING LABORATORY. MEASURE SLUMP IN ACCORDANCE WITH "METHOD OF TEST FOR SLUMP" OF PORTLAND CEMENT CONCRETE ASTM C143.
10. CONTRACTOR SHALL OBTAIN APPROVAL FROM DESIGNER OF RECORD BEFORE PLACING SLEEVES OR CHASES IN BEAMS, SLABS AND WALLS UNLESS SLEEVES OR CHASES ARE SPECIFICALLY SHOWN IN APPROVED PLANS. NO CONDUIT SHALL BE PLACED IN CONCRETE TOPPING PLACED OVER STEEL DECKING.
11. PROJECTING CORNERS OF SLABS, BEAMS, COLUMNS AND WALLS, ETC. SHALL BE FORMED WITH A 3/4" CHAMFER.
12. IN THE EVENT OF AN UNINTENTIONAL COLD JOINT, THE CONTRACTOR SHALL REMOVE ALL LAITENCE AND DELETORIUS MATERIAL TO PROVIDE A SOUND, CLEAN ROUGH SURFACE AND USE A BONDING AGENT THAT PRODUCES A HIGHER STRENGTH JOINT THAN THE CONCRETE USED. (F'C +25% MINIMUM.)

REINFORCING STEEL

1. BAR REINFORCEMENT, #4 AND SMALLER: GR40
   BAR REINFORCEMENT, #5 AND LARGER: GR60 ASTM A615.
2. WELDING OF REINFORCEMENT STEEL SHALL BE IN ACCORDANCE WITH ACI 318. WELDED WIRE FABRIC SHALL CONFORM TO ASTM 1A85 AND SHALL BE LAPPED 12" MIN. E70XX ELECTRODES SHALL BE USED IN WELDING GRADE 40 REINFORCEMENT. E90XX ELECTRODES SHALL BE USED IN WELDING GRADE 60 REINFORCEMENT.
3. VERTICAL BARS SHALL BE CENTERED IN WALLS U.N.O. AND TIED IN POSITION AT TOPS AND BOTTOMS AND AT INTERVALS PER REQUIREMENTS OF THE CBC. ALL REINFORCING SHALL BE PLACED IN ACCORDANCE WITH THE CONCRETE STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE" LATEST EDITION.
4. SECURE ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS AND INSERTS PRIOR TO PLACING CONCRETE.
5. PROVIDE FOLLOWING MIN. COVERAGE FOR REINFORCING STEEL, PER SECT. 7.7 OF ACI 318:

FOOTINGS (CONCRETE PLACED DIRECTLY AGAINST EARTH):	3"
# 5 AND SMALLER AT FORMED CONC. SURFACE EXPOSED TO EARTH OR WEATHER:	2"
#6 AND LARGER AT FORMED CONC. SURFACE EXPOSED TO EARTH OR WEATHER:	1.5"
BEAMS AND COLUMNS, TIES STIRRUPS AND SPIRALS:	1.5"

6. DOWELS BETWEEN FOOTINGS AND WALLS SHALL BE THE SAME SIZE, GRADE AND SPACING AS VERTICAL WALL REINFORCING, U.N.O.

STRUCTURAL REQUIREMENTS

GENERAL CONTRACTOR SHALL VERIFY DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE DESIGNER OF RECORD SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.

DO NOT SCALE DRAWINGS.

ANY OMISSIONS AND/OR CONFLICTS BETWEEN DRAWINGS, SPECIFICATIONS AND ACTUAL SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER OF RECORD BEFORE PROCEEDING.

NO PIPES OR DUCTS SHALL BE PLACED IN WALLS UNLESS SPECIFICALLY SHOWN OR NOTED ON PLANS. NO STRUCTURAL MEMBER SHALL BE CUT FOR PIPES, DUCTS, ETC. UNLESS SPECIFICALLY INDICATED.

GENERAL CONTRACTOR SHALL VERIFY EXISTING UTILITY SERVICES IN THE AREA OF WORK PRIOR TO BEGINNING DEMOLITION AND EXCAVATION.

ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE, CURRENTLY ADOPTED EDITION.

THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING AND SUPPORT NECESSARY TO ACHIEVE THE FINISHED STRUCTURE.

LICENSED ARCHITECT
★ GARY ARTHUR KERR ★
C19693
RENEWAL 4/30/2015
STATE OF CALIFORNIA

GARY KERR - ARCHITECT
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SUBWAY
STORE #62365

40840 SIERRA DRIVE
THREE RIVERS, CA 93271
PC 02/26/14

GS2

BUILDING ENERGY ANALYSIS REPORT

PROJECT:

Subway
40840 Sierra Drive
Three Rivers, CA 93271

Project Designer:

Gary Kerr Architect
23917 Bennington Drive
Valencia, CA 91354
630 290 9823

Report Prepared by:

Tailored Energy Services, Title 24 Calculations
Kevin Laughton
www.TailoredEnergyOnline.com
1640 W. Longview Avenue, Stockton, CA 95207,
Email: Kevin@TailoredEnergyOnline.com

Job Number:

4097

Date:

25-Feb-14

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2008 Building Energy Efficiency Standards.

This program developed by EnergySoft, LLC – www.energysoft.com.

TABLE OF CONTENTS

Cover Page	1
Table of Contents	2
Nonresidential Performance Title 24 Forms	3
Form ENV-MM Envelope Mandatory Measures	19
Form LTG-MM Lighting Mandatory Measures	20
Form MECH-MM Mechanical Mandatory Measures	21

PERFORMANCE CERTIFICATE OF COMPLIANCE (Part 1 of 3) PERF-1C

Project Name			Date
Subway			*25-Feb-14*
Project Address	**Climate Zone**	**Total Cond. Floor Area**	**Addition Floor Area**
40840 Sierra Drive Three Rivers	*CA Climate Zone 13*	*1,114*	*1,114*

GENERAL INFORMATION

Building Type:	☑ Nonresidential	☐ High-Rise Residential	☐ Hotel/Motel Guest Room
	☐ Relocatable - indicate	☐ specific climate zone	☐ all climates
Phase of Construction:	☐ New Construction	☐ Addition	☑ Alteration

STATEMENT OF COMPLIANCE

This certificate of compliance lists the building features and specifications needed to comply with Title 24, Parts 1 and 6 of the California Code of Regulations. This certificate applies only to a Building using the performance compliance approach.

The documentation author hereby certifies that the documentation is accurate and complete.

Documentation Author

Name	*Tailored Energy Services, Title 24 Calculations*	Signature	
Company	*Kevin Laughton*	Date	*25-Feb-14*
Address	*www.TailoredEnergyOnline.com*	Phone	*Email: Kevin@TailoredEnergyOnlin*
City/State/Zip	*1640 W. Longview Avenue, Stockton, CA 95207,*		

The Principal Designer hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet the energy efficiency requirements contained in sections 110, 116 through 118, and 140 through 149 of Title 24, Part 6. Please check one:

ENV.	LTG.	MECH.	
☑	☑	☑	I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.
☐	☐	☐	I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.
☐	☐	☐	I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

Principal Envelope Designer

Name	GARY KERR	Signature	
Company	*Gary Kerr Architect*	Date	2/28/14
Address	*23917 Bennington Drive*	License #	C19693
City/State/Zip	*Valencia, CA 91354*	Phone	*630 290 9823*

Principal Mechanical Designer

Name	GARY KERR	Signature	
Company	*Gary Kerr Architect*	Date	2/28/14
Address	*23917 Bennington Drive*	License #	C19693
City/State/Zip	*Valencia, CA 91354*	Phone	*630 290 9823*

Principal Lighting Designer

Name	GARY KERR	Signature	
Company	*Gary Kerr Architect*	Date	2/28/14
Address	*23917 Bennington Drive*	License #	C19693
City/State/Zip	*Valencia, CA 91354*	Phone	*630 290 9823*

INSTRUCTIONS TO APPLICANT COMPLIANCE & WORKSHEETS (check box if worksheets are included)

☑	ENV-1C	Certificate of Compliance. Required on plans.	☑	MECH-1C	Certificate of Compliance. Required on plans.
☑	LTG-1C	Certificate of Compliance. Required on plans.	☑	MECH-2C	Air/Water Side/Service Hot Water & Pool Requirements.
☐	LTG-2C	Lighting Controls Credit Worksheet.	☑	MECH-3C	Mechanical Ventilation and Reheat.
☐	LTG-3C	Indoor Lighting Power Allowance.	☑	MECH-5C	Mechanical Equipment Details.

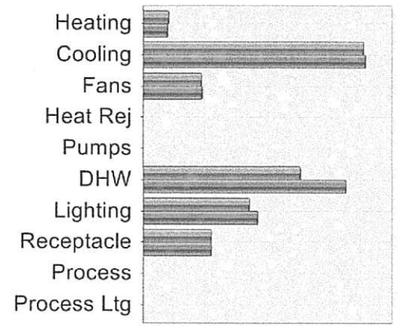
PERFORMANCE CERTIFICATE OF COMPLIANCE (Part 2 of 3) PERF-1C

Project Name: *Subway*

Date: *25-Feb-14*

ANNUAL TDV ENERGY USE SUMMARY (kBtu/sqft-yr)

Energy Component	Standard Design	Proposed Design	Compliance Margin
Space Heating	15.63	16.32	-0.69
Space Cooling	143.20	141.60	1.60
Indoor Fans	38.43	37.91	0.52
Heat Rejection	0.00	0.00	0.00
Pumps & Misc.	0.00	0.00	0.00
Domestic Hot Water	130.49	101.13	29.37
Lighting	74.13	68.38	5.74
Receptacle	44.62	44.62	0.00
Process	0.00	0.00	0.00
Process Lighting	0.00	0.00	0.00
TOTALS	446.50	409.96	36.54
Percent better than Standard		8.2 %	(8.2 % excluding process)



BUILDING COMPLIES

GENERAL INFORMATION

Building Orientation	(N) 0 deg	Conditioned Floor Area	1,114	sqft.
Number of Stories	1	Unconditioned Floor Area	0	sqft.
Number of Systems	1	Conditioned Footprint Area	1,114	sqft.
Number of Zones	1	Natural Gas Available On Site	No	

		Orientation	Gross Area		Glazing Area		Glazing Ratio
Front Elevation		(N)	240	sqft.	24	sqft.	10.0 %
Left Elevation		(E)	656	sqft.	37	sqft.	5.6 %
Rear Elevation		(S)	240	sqft.	0	sqft.	0.0 %
Right Elevation		(W)	0	sqft.	0	sqft.	0.0 %
	Total		1,136	sqft.	61	sqft.	5.4 %
Roof			1,114	sqft.	0	sqft.	0.0 %

	Standard		Proposed		
Prescriptive Lighting Power Density	1.200	W/sqft.	1.107	W/sqft.	Prescriptive Values for Comparison only. See LTG-1C for allowed LPD.
Prescriptive Envelope TDV Energy	29,393		46,227		

Remarks:

PERFORMANCE CERTIFICATE OF COMPLIANCE (Part 3 of 3) PERF-1C

Project Name: *Subway*

Date: *25-Feb-14*

ZONE INFORMATION

System Name	Zone Name	Occupancy Type	Floor Area (sqft.)	Inst. LPD (W/sf)[1]	Ctrl. Credits (W/sf)[2]	Allowed LPD Area (W/sf)[3]	Allowed LPD Tailored (W/sf)[4]	Proc. Loads (W/sf)
propane hvac	*conditioned*	*Comp Bldg Restaurant*	*1,114*	*1.107*				

Notes: 1. See LTG-1C (items marked with asterisk, see LTG-1-C by others) 2. See LTG-2C 3. See LTG-3C (by others) 4. See LTG-4C

Items above require special documentation

EXCEPTIONAL CONDITIONS COMPLIANCE CHECKLIST

The local enforcement agency should pay special attention to the items specified in this checklist. These items require special written justification and documentation, and special verification to be used with the performance approach. The local enforcement agency determines the adequacy of the justifications, and may reject a building or design that otherwise complies based on the adequacy of the special justification and documentation submitted.

The exceptional features listed in this performance approach application have specifically been reviewed. Adequate written justification and documentation for their use have been provided by the applicant.

Authorized Signature or Stamp _____

CERTIFICATE OF COMPLIANCE AND FIELD INSPECTION ENERGY CHECKLIST

(Part 1 of 3) **ENV-1C**

Project Name	Date
Subway	*25-Feb-14*

Project Address	Climate Zone	Total Cond. Floor Area	Addition Floor Area
40840 Sierra Drive Three Rivers	*13*	*1,114*	*1,114*

GENERAL INFORMATION

Building Type: ☑ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel Guest Room

☐ Schools (Public School) ☐ Relocatable Public School Bldg. ☑ Conditioned Spaces ☐ Unconditioned Spaces

☐ Skylight Area for Large Enclosed Space ≥ 8000 ft^2 (If checked include the ENV-4C with submittal)

Phase of Construction: ☐ New Construction ☐ Addition ☑ Alteration

Approach of Compliance: ☐ Component ☑ Overall Envelope ☐ Unconditioned (file affidavit)

Front Orientation: N, E, S, W or in Degrees: *0 deg*

FIELD INSPECTION ENERGY CHECKLIST

OPAQUE SURFACE DETAILS | **INSULATION**

Tag/ID	Assembly Type	Area (ft^2)	Orientation N, E, S, W	U-Factor	Cavity R-Value	Exterior R-Value	Exterior Furring[3]	Interior R-Value	Interior Furring[3]	Joint Appendix 4	Condition Status	Pass	Fail[2]
1	*Wall*	*240*	*(S)*	*0.110*	*R-11*					*4.3.1-A2*	*Existing*	☐	☐
2	*Slab*	*1,114*	*(N)*	*0.730*	*None*					*4.4.7-A1*	*Existing*	☐	☐
3	*Wall*	*312*	*(E)*	*0.110*	*R-11*					*4.3.1-A2*	*Existing*	☐	☐
4	*Wall*	*216*	*(N)*	*0.110*	*R-11*					*4.3.1-A2*	*Existing*	☐	☐
5	*Wall*	*286*	*(E)*	*0.110*	*R-11*					*4.3.1-A2*	*Existing*	☐	☐
6	*Door*	*21*	*(E)*	*0.700*	*None*					*4.5.1-A2*	*Existing*	☐	☐
7	*Roof*	*1,114*	*(N)*	*0.031*	*R-30*					*4.2.1-A20*	*Existing*	☐	☐
												☐	☐
												☐	☐
												☐	☐

1. See Instructions in the Nonresidential Compliance Manual, page 3-96.
2. If Fail, then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. A fail does not meet compliance.

FENESTRATION SURFACE DETAILS

Tag/ID	Fenestration Type	Area (ft^2)	Orientation N, E, S, W	Max U-Factor	U-Factor Source	Max (R)SHGC	SHGC Source	Overhang	Conditions Status	Pass	Fail[2]
1	*Window*	*37*	*(E)*	*0.710*	*Default*	*0.730*	*Default*	☐	*Existing*	☐	☐
2	*Window*	*24*	*(N)*	*0.710*	*Default*	*0.730*	*Default*	☐	*Existing*	☐	☐
								☐		☐	☐
								☐		☐	☐
								☐		☐	☐
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								☐		☐	☐

1. See Instructions in the Nonresidential Compliance Manual, page 3-96.
2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

CERTIFICATE OF COMPLIANCE AND FIELD INSPECTION ENERGY CHECKLIST

(Part 2 of 3) **ENV-1C**

Project Name	Date
Subway	*25-Feb-14*

ROOFING PRODUCT (COOL ROOFS)

(Note if the roofing product is not CRRC certified, this compliance approach cannot be used). Go to Overall Envelope Approach or Performance Approach.

CHECK APPLICABLE BOX BELOW IF EXEMPT FROM THE ROOFING PRODUCT "COOL ROOF" REQUIREMENTS:	Pass	Fail[1]	N/A
☐ Roofing compliance not required in Climate Zones 1 and16 with a Low-Sloped. 2:12 pitch or less.	☐	☐	☐
☐ Roofing compliance not required in Climate Zone 1 with a Steep-Sloped with less than 5 lb/ft^2. Greater than 2:12 pitch.	☐	☐	☐
☐ Low-sloped Wood framed roofs in Climate Zones 3 and 5 are exempted, solar reflectance and thermal emittance or SRI that have a U-factor of 0.039 or lower. See Opaque Surface Details roof assembly, Column H of ENV-2C.	☐	☐	☐
☐ Low-sloped Metal building roofs in Climate Zone 3 and 5 are exempted, solar relectance and thermal emittance or SRI that have a U-factor of 0.048 or lower. See Opaque Surface Details roof assembly below, Column H of ENV-2C.	☐	☐	☐
☐ The roof area covered by building integrated photovoltaic panels and building integrated solar thermal panels are exempted. Solar reflectance and thermal emittance or SRI, see spreadsheet calculator at www.energy.ca.gov/title24/	☐	☐	☐
☐ Roof constructions that have thermal mass over the roof membrane with a weight of at least 25 lb/ft^2 are exempt from the Cool Roof criteria below.	☐	☐	☐
☐ High-rise residential buildings and hotels and motels with low-sloped roofs in Climate Zones 1 through 9, 12 and 16 are exempted from the low-sloped roofing criteria.	☐	☐	☐

1. If Fail then describe on this page of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

CRRC Product ID Number[1]	Roof Slope ≤ 2:12	Roof Slope > 2:12	Product Weight < 5lb/ft^2	Product Weight ≥ 5lb/ft^2	Product Type[2]	Aged Solar Reflectance[3]		Thermal Emmitance	SRI[5]	Pass	Fail[6]
	☐	☐	☐	☐		☐ [4]				☐	☐
	☐	☐	☐	☐		☐ [4]				☐	☐
	☐	☐	☐	☐		☐ [4]				☐	☐
	☐	☐	☐	☐		☐ [4]				☐	☐
	☐	☐	☐	☐		☐ [4]				☐	☐
	☐	☐	☐	☐		☐ [4]				☐	☐

1. The CRRC Product ID Number can be obtained from the Cool Roof Rating Council's Rated Product Directory at www.coolroofs.org/products/search.php
2. Indicate the type of product is being used for the roof top, i.e. single-ply roof, asphalt roof, metal roof, etc.
3. If the Aged Reflectance is not available in the Cool Roof Rating Council's Rated Product Directory then use the Initial Reflectance value from the same directory and use the equation $(0.2+0.7(\rho_{Initial} - 0.2)$ to obtain a calculated aged value. Where ρ is the Initial Solar Reflectance from the Cool Roof Rating Council's Rated Product Directory.
4. Check box if the Aged Reflectance is a calculated value using the equation above.
5. The SRI value needs to be calculated from a spreadsheet calculator at http://www.energy.ca.gov/title24/
6. If Fail then describe on this page of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

To apply **Liquid Field Applied Coatings**, the coating must be applied across the entire roof surface and meet the dry mil thickness or coverage recommended by the coatings manufacturer and meet minimum performance requirements listed in §118(i)4. Select the applicable coating:

☐ Aluminum-Pigmented Asphalt Roof Coating ☐ Cement-Based Roof Coating ☐ Other _____

Discrepancies:

CERTIFICATE OF COMPLIANCE AND FIELD INSPECTION ENERGY CHECKLIST

(Part 3 of 3) **ENV-1C**

Project Name	Date
Subway	*25-Feb-14*

Required Acceptance Tests

Designer:

This form is to be used by the designer and attached to the plans. Listed below is the acceptance test for Envelope Fenestrations system. The designer is required to check the acceptance tests and list all the fenestration products that require an acceptance test. If all the site-built fenestration of a certain type requires a test, list the different fenestration products and the number of systems. The NA7 Section in the Appendix of the Nonresidential Reference Appendices Manual describes the test. Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately.

Enforcement Agency:

Systems Acceptance. Before Occupancy Permit is granted for a newly constructed building or space or whenever new fenestration is installed in the building or space shall be certified as meeting the Acceptance Requirements.
The ENV-2A form is not considered a complete form and is not to be accepted by the enforcement agency unless the boxes are checked and/or filled and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement agency that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of §10-103(b) of Title 24 Part 6. The field inspector must receive the properly filled out and signed forms before the building can receive final occupancy. A copy of the ENV-2A for each different fenestration product line must be provided to the owner of the building for their records.

Test Description		**ENV-2A**	**Test Performed By:**
Fenestration Products Name or ID Requiring Testing or Verification	Area of like Products	Building Envelope Acceptance Test	
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CERTIFICATE OF COMPLIANCE (Part 1 of 3) LTG-1C

Project Name: *Subway*

Date: *25-Feb-14*

INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Installation Certificate, LTG-1- INST (Retain a copy and verify form is completed and signed.) **Field Inspector** ☐

Certificate of Acceptance, LTG-2A and LTG-3A (Retain a copy and verify form is completed and signed.) **Field Inspector** ☐

A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces Installed Lighting Power listed on this Lighting Schedule is only for:

☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

☑ The actual indoor lighting power listed below includes all installed permanent and portable lighting systems in accordance with §146(a).

☑ Only for offices: Up to the first 0.2 watts per square foot of portable lighting shall not be required to be included in the calculation of actual indoor lighting power density in accordance with the Exception to §146(a). All portable lighting in excess of 0.2 watts per square foot is totaled below.

	Luminaire (Type, Lamps, Ballasts)		Installed Watts						
A	B	C	D	E		F	G	H	
				How wattage Was determined				Field Inspector[2]	
None or Item Tag	Complete Luminaire Description[1] (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballasts)		Watts per Luminaire[1]	CEC Default From NA8	According To §130 (d or e)	Number of Luminaires	Installed Watts (D X F)	Pass	Fail
	hood		*26.0*	☐	☑	*1*	*26*	☐	☐
	mono spot		*15.0*	☐	☑	*9*	*135*	☐	☐
	perndant PL1		*5.0*	☐	☑	*4*	*20*	☐	☐
	F14		*64.0*	☐	☑	*8*	*512*	☐	☐
	DL		*18.0*	☐	☑	*30*	*540*	☐	☐
				☐	☐			☐	☐
				☐	☐			☐	☐
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				☐	☐			☐	☐
						Installed Watts Page Total:	*1,233*		

Building total number of pages:		Installed Watts Building Total (Sum of all pages)	*1,233*
		Enter into LTG-1C Page 4 of 4	

1. Wattage shall be determined according to Section 130 (d and e). Wattage shall be rating of light fixture, not rating of bulb.
2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

CERTIFICATE OF COMPLIANCE (Part 2 of 3) LTG-1C

Project Name: *Subway*

Date: *25-Feb-14*

INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Fill in controls for all spaces: a) area controls, b) multi-level controls, c) manual daylighting controls for daylit areas > 250 ft^2, automatic daylighting controls for daylit areas > 2,500 ft^2, d) shut-off controls, e) display lighting controls, f) tailored lighting controls – general lighting controlled separately from display, ornamental and display case lighting and g) demand responsive automatic controls for retail stores > 50,000 ft^2, in accordance with Section 131.

MANDATORY LIGHTING CONTROLS – FIELD INSPECTION ENERGY CHECKLIST

Type/ Description	Number of Units	Location in Building	Special Features	Field Inspector Pass	Field Inspector Fail
			☐	☐	☐
			☐	☐	☐
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			☐	☐	☐

SPECIAL FEATURES INSPECTION CHECKLIST (See Page 2 of 4 of LTG-1C)

The local enforcement agency should pay special attention to the items specified in this checklist. These items require special written justification and documentation, and special verification. The local enforcement agency determines the adequacy of the justification, and may reject a building or design that otherwise complies based on the adequacy of the special justification and documentation submitted.

Field Inspector's Notes or Discrepancies:

CERTIFICATE OF COMPLIANCE (Part 3 of 3) LTG-1C

Project Name	Date
Subway	*25-Feb-14*

CONDITIONED AND UNCONDITIONED SPACE LIGHTING MUST NOT BE COMBINED FOR COMPLIANCE

Indoor Lighting Power for Conditioned Spaces		Watts	Indoor Lighting Power for Unconditioned Spaces		Watts
Installed Lighting (from Conditioned LTG-1C, Page 2)		*1,233*	**Installed** Lighting (from Unconditioned LTG-1C, Page 2)		*0*
Lighting Control Credit Conditioned Spaces (from LTG-2C)	-	*0*	Lighting Control Credit Unconditioned Spaces (from LTG-2C)	-	*0*
Adjusted **Installed** Lighting Power	=	*1,233*	Adjusted **Installed** Lighting Power	=	*0*
Complies if **Installed** ≤ **Allowed**		↕	Complies if **Installed** ≤ **Allowed**		↕
Allowed Lighting Power Conditioned Spaces (from LTG-3C or PERF-1)		*1,233*	**Allowed** Lighting Power Unconditioned Spaces (from LTG-3C)		*0*

Required Acceptance Tests

Designer:

This form is to be used by the designer and attached to the plans. Listed below is the acceptance test for the Lighting system, **LTG-2A and LTG-3A**. The designer is required to check the acceptance tests and list all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. If all the lighting system or control of a certain type requires a test, list the different lighting and the number of systems. The NA7 Section in the Appendix of the Nonresidential Reference Appendices Manual describes the test. Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately. **Forms can be grouped by type of Luminaire controlled.**

Enforcement Agency:

Systems Acceptance. Before Occupancy Permit is granted for a newly constructed building or space or when ever new lighting system with controls is installed in the building or space shall be certified as meeting the Acceptance Requirements.
The **LTG-2A and LTG-3A** forms are not considered complete forms and are not to be accepted by the enforcement agency unless the boxes are checked and/or filled and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement agency that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of §10-103(b) of Title 24 Part 6. The field inspector must receive the properly filled out and signed forms before the building can receive final occupancy. A copy of the **LTG-2A and LTG-3A** for each different lighting luminaire control(s) must be provided to the owner of the building for their records.

Luminaires Controlled				LTG-2A and LTG-3A
Equipment Requiring Testing	Description	Number of Luminaires controlled	Location	Controls and Sensors and Automatic Daylighting Controls Acceptance
				☐
				☐
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CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST

(Part 1 of 4) **MECH-1C**

Project Name			Date
Subway			*25-Feb-14*
Project Address	**Climate Zone**	**Total Cond. Floor Area**	**Addition Floor Area**
40840 Sierra Drive Three Rivers	*13*	*1,114*	*1,114*

GENERAL INFORMATION

Building Type:	☑ Nonresidential	☐ High-Rise Residential	☐ Hotel/Motel Guest Room	
☐ Schools (Public School)	☐ Relocatable Public School Bldg.	☑ Conditioned Spaces	☐ Unconditioned Spaces (affidavit)	
Phase of Construction:	☐ New Construction	☐ Addition	☑ Alteration	
Approach of Compliance:	☐ Component	☐ Overall Envelope TDV Energy	☐ Unconditioned (file affidavit)	
Front Orientation: N, E, S, W or in Degrees:	*0 deg*			

HVAC SYSTEM DETAILS

Equipment[2]	**Inspection Criteria**	**FIELD INSPECTION ENERGY CHECKLIST** Meets Criteria or Requirements: **Pass**	**Fail – Describe Reason**[2]
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	*DHW Heater*	☐	☐
Equipment Type[3]:	*Gas Fired DHW Boiler*	☐	☐
Number of Systems	*1*	☐	☐
Max Allowed Heating Capacity[1]	*190,000 Btu/hr*	☐	☐
Minimum Heating Efficiency[1]	*0.80 EF*	☐	☐
Max Allowed Cooling Capacity[1]	*n/a*	☐	☐
Cooling Efficiency[1]	*n/a*	☐	☐
Duct Location/ R-Value	*n/a*	☐	☐
When duct testing is required, submit **MECH-4A** & **MECH-4-HERS**	*n/a*	☐	☐
Economizer	*n/a*	☐	☐
Thermostat	*n/a*	☐	☐
Fan Control	*n/a*	☐	☐

Equipment[2]	**Inspection Criteria**	**FIELD INSPECTION ENERGY CHECKLIST** **Pass**	**Fail – Describe Reason**[2]
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	*propane hvac*	☐	☐
Equipment Type[3]:	*Packaged DX*	☐	☐
Number of Systems	*1*	☐	☐
Max Allowed Heating Capacity[1]	*73,000 Btu/hr*	☐	☐
Minimum Heating Efficiency[1]	*80% AFUE*	☐	☐
Max Allowed Cooling Capacity[1]	*55,000 Btu/hr*	☐	☐
Cooling Efficiency[1]	*13.2 SEER / 11.2 EER*	☐	☐
Duct Location/ R-Value	*Attic, Ceiling Ins, vented / 4.2*	☐	☐
When duct testing is required, submit **MECH-4A** & **MECH-4-HERS**	*No*	☐	☐
Economizer	*No Economizer*	☐	☐
Thermostat	*Setback Required*	☐	☐
Fan Control	*Constant Volume*	☐	☐

1. If the Actual installed equipment performance efficiency and capacity is less than the Proposed (from the energy compliance submittal or from the building plans) the responsible party shall resubmit energy compliance to include the new changes.
2. For additional detailed discrepancy use Page 2 of the Inspection Checklist Form. Compliance fails if a Fail box is checked.
3. Indicate Equipment Type: Gas (Pkg or, Split), VAV, HP (Pkg or split), Hydronic, PTAC, or other.

CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST	(Part 2 of 4)	MECH-1C
Project Name *Subway*		Date *25-Feb-14*

Discrepancies:

AIR SYSTEM REQUIREMENTS (Part 1 of 2) MECH-2C

Project Name	Date
Subway	*25-Feb-14*

Item or System Tags (i.e. AC-1, RTU-1, HP-1)		Indicate Air Systems Type (Central, Single Zone, Package, VAV, or etc...)		
		propane hvac		
Number of Systems		*1*		
MANDATORY MEASURES	Indicate Page Reference on Plans or Schedule and indicate the applicable exception(s)			
	T-24 Sections			
Heating Equipment Efficiency	112(a)	*80% AFUE*		
Cooling Equipment Efficiency	112(a)	*13.2 SEER / 11.2 EER*		
HVAC Heat Pump Thermostat	112(b), 112(c)	*n/a*		
Furnace Controls/Thermostat	112(c), 115(a)	*n/a*		
Natural Ventilation	121(b)	*Yes*		
Mechanical Ventilation	121(b)	*400 cfm*		
VAV Minimum Position Control	121(c)	*No*		
Demand Control Ventilation	121(c)	*No*		
Time Control	122(e)	*Programmable Switch*		
Setback and Setup Control	122(e)	*Setback Required*		
Outdoor Damper Control	122(f)	*Auto*		
Isolation Zones	122(g)	*n/a*		
Pipe Insulation	123			
Duct Location/ R-value	124	*Attic, Ceiling Ins, vented / 4.2*		
PRESCRIPTIVE MEASURES				
Calculated Design Heating Load	144(a & b)	*n/a*		
Proposed Heating Capacity	144(a & b)	*73,000 Btu/hr*		
Calculated Design Cooling Load	144(a & b)	*n/a*		
Proposed Cooling Capacity	144(a & b)	*52,160 Btu/hr*		
Fan Control	144(c)	*Constant Volume*		
DP Sensor Location	144(c)			
Supply Pressure Reset (DDC only)	144(c)	*Yes*		
Simultaneous Heat/Cool	144(d)	*No*		
Economizer	144(e)	*No Economizer*		
Heat Air Supply Reset	144(f)	*Constant Temp*		
Cool Air Supply Reset	144(f)	*Constant Temp*		
Electric Resistance Heating[1]	144(g)			
Air Cooled Chiller Limitation	144(i)			
Duct Leakage Sealing. If Yes, a MECH-4-A must be submitted	144(k)	*No*		

1. Total installed capacity (MBtu/hr) of all electric heat on this project exclusive of electric auxiliary heat for heat pumps. If electric heat is used explain which exception(s) to §144(g) apply.

WATER SIDE SYSTEM REQUIREMENTS (Part 2 of 2) MECH-2C

Project Name	Date
Subway	*25-Feb-14*

	WATER[2] SIDE SYSTEMS: Chillers, Towers, Boilers, Hydronic Loops			
Item or System Tags (i.e. AC-1, RTU-1, HP-1)[1]				
Number of Systems				
	Indicate Page Reference on Plans or Specification[2]			
MANDATORY MEASURES	**T-24 Sections**			
Equipment Efficiency	112(a)			
Pipe Insulation	123			
PRESCRIPTIVE MEASURES				
Cooling Tower Fan Controls	144(a & b)			
Cooling Tower Flow Controls	144(h)			
Variable Flow System Design	144(h)			
Chiller and Boiler Isolation	144(j)			
CHW and HHW Reset Controls	144(j)			
WLHP Isolation Valves	144(j)			
VSD on CHW, CW & WLHP Pumps>5HP	144(j)			
DP Sensor Location	144(j)			

1. The proposed equipment need to match the building plans schedule or specifications. If a requirement is not applicable, put "N/A" in the column next to applicable section.
2. For each chiller, cooling tower, boiler, and hydronic loop (or groups of similar equipment) fill in the reference to sheet number and/or specification section and paragraph number where the required features are documented. If a requirement is not applicable, put "N/A" in the column next to applicable section.

	Service Hot Water, Pool Heating			
Item or System Tags (i.e. WH-1, WHP, DHW, etc...)[1]		*DHW Heater*		
Number of Systems		*1*		
	Indicate Page Reference on Plans or Schedule[2]			
MANDATORY MEASURES	**T-24 Sections**			
SERVICE HOT WATER				
Certified Water Heater	111, 113(a)	*Rinnai Tankless RL94i*		
Water Heater Efficiency	113(b)	*0.80 EF*		
Service Water Heating Installation	113(c)	*Controls Req.*		
Pipe Insulation	123	*Required*		
POOL AND SPA				
Pool and Spa Efficiency and Control	114(a)	*n/a*		
Pool and Spa Installation	114(b)	*n/a*		
Pool Heater – No Pilot Light	115(c)	*n/a*		
Spa Heater – No Pilot Light	115(d)	*n/a*		
Pipe Insulation	123	*n/a*		

1. The Proposed equipment needs to match the building plans schedule or specifications. If a requirement is not applicable, put "N/A" in the column next to applicable section.
2. For each water heater, pool heater and domestic water loop (or groups of similar equipment) fill in the reference to sheet number and/or specification section and paragraph number where the required features are documented. If a requirement is not applicable, put "N/A" in the column.

MECHANICAL VENTILATION AND REHEAT

MECH-3C

Project Name: *Subway*

Date: *25-Feb-14*

	MECHANICAL VENTILATION (§121(b)2)								REHEAT LIMITATION (§144(d)) VAV MINIMUM				
	AREA BASIS			OCCUPANCY BASIS									
A	B	C	D	E	F	G	H	I	J	K	L	M	N
Zone/System	Condition Area (ft^2)	CFM per ft^2	Min CFM By Area B X C	Number Of People	CFM per Person	Min CFM by Occupant E X F	REQ'D V.A. Max of D or G	Design Ventilation Air CFM	50% of Design Zone Supply CFM	B X 0.4 CFM / ft^2	Max. of Columns H, J, K, 300 CFM	Design Minimum Air Setpoint	Transfer Air
conditioned	*1,114*	*0.38*	*423*				*423*	*400*					*23*
propane hvac						*Total*	*423*	*400*					
			Totals						Column I Total Design Ventilation Air				

C	Minimum ventilation rate per Section §121, Table 121-A.
E	Based on fixed seat or the greater of the expected number of occupants and 50% of the CBC occupant load for egress purposes for spaces without fixed seating.
H	Required Ventilation Air (REQ'D V.A.) is the larger of the ventilation rates calculated on an AREA BASIS or OCCUPANCY BASIS (Column D or G).
I	Must be greater than or equal to H, or use Transfer Air (column N) to make up the difference.
J	Design fan supply CFM (Fan CFM) x 50%; or the design zone outdoor airflow rate per §121.
K	Condition area (ft^2) x 0.4 CFM / ft^2; or
L	Maximum of Columns H, J, K, or 300 CFM
M	This must be less than or equal to Column L and greater than or equal to the sum of Columns H plus N.
N	Transfer Air must be provided where the Required Ventilation Air (Column H) is greater than the Design Minimum Air (Column M). Where required, transfer air must be greater than or equal to the difference between the Required Ventilation Air (Column H) and the Design Minimum Air (Column M), Column H minus M.

MECHANICAL EQUIPMENT DETAILS (Part 1 of 2) MECH-5C

Project Name: *Subway*

Date: *25-Feb-14*

CHILLER AND TOWER SUMMARY

					PUMPS			
Equipment Name	Type	Qty.	Efficiency	Tons	Qty.	GPM	BHP	Pump Control

DHW / BOILER SUMMARY

System Name	Type	Distribution	Qty.	Rated Input	Vol. (Gals).	Energy Factor or RE	Standby Loss or Pilot	Tank Ext. R-Value	Status
Rinnai Tankless RL94i	*Instant Gas*	*No Pipe Insulation*	*1*	*190,000*	*0*	*0.80*	*n/a*	*n/a*	*New*

MULTI-FAMILY CENTRAL WATER HEATING DETAILS

Hot Water Pump				Hot Water Piping Length (ft)			
Control	Qty.	HP	Type	In Plenum	Outside	Buried	Add ½" Insulation
							☐
							☐
							☐

CENTRAL SYSTEM RATINGS

			HEATING			COOLING		
System Name	Type	Qty.	Output	Aux. kW	Efficiency	Output	Efficiency	Status
hvac Unit	*Packaged DX*	*1*	*73,000*	*0.0*	*80% AFUE*	*55,000*	*13.2 SEER / 11.2 EER*	*Existing*

CENTRAL SYSTEM FAN SUMMARY

			SUPPLY FAN		RETURN FAN	
System Name	Fan Type	Economizer Type	CFM	BHP	CFM	BHP
hvac Unit	*Constant Volume*	*No Economizer*	*1,600*	*0.25*	*none*	

MECHANICAL EQUIPMENT DETAILS (Part 2 of 2) MECH-5C

Project Name: *Subway*

Date: *25-Feb-14*

ZONE SYSTEM SUMMARY

		SYSTEM				VAV		Fan				
Zone Name	System Name	Type	Qty.	Heating	Cooling	Min CFM Ratio	Reheat Coil	CFM	BHP	Fan Cycles	ECM Motor	Outside Air
										☐	☐	
										☐	☐	
										☐	☐	
										☐	☐	
										☐	☐	
										☐	☐	
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										☐	☐	

EXHAUST FAN SUMMARY

EXHAUST FAN				EXHAUST FAN				EXHAUST FAN			
Room Name	Qty.	CFM	BHP	Room Name	Qty.	CFM	BHP	Room Name	Qty.	CFM	BHP
entire space added	*1.0*	*400*	*0.00*								

ENVELOPE MANDATORY MEASURES: NONRESIDENTIAL — ENV-MM

Project Name	Date
Subway	*25-Feb-14*

DESCRIPTION

Building Envelope Measures:

§118(a):	Installed insulating material shall have been certified by the manufacturer to comply with the California Quality Standards for insulating material, Title 20 Chapter 4, Article 3.
§118(c):	All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2602 and 707 of Title 24, Part 2.
§118(f):	The opaque portions of framed demising walls in nonresidential buildings shall have insulation with an installed R-value of no less than R-13 between framing members.
§117(a):	All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.
§116(a) 1:	Manufactured fenestration products and exterior doors shall have air infiltration rates not exceeding 0.3 cfm/ft.^{2} of window area, 0.3 cfm/ft.^{2} of door area for residential doors, 0.3 cfm/ft.^{2} of door area for nonresidential single doors (swinging and sliding), and 1.0 cfm/ft.^{2} for nonresidential double doors (swinging).
§116(a) 2:	Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U-factor.
§116(a) 3:	Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built fenestration, or the applicable default SHGC.
§116(b):	Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors).

LIGHTING MANDATORY MEASURES: NONRESIDENTIAL — LTG-MM

Project Name	Date
Subway	*25-Feb-14*

Indoor Lighting Measures:

§131(d):	**Shut-off Controls**
1.	For every floor, all interior lighting systems shall be equipped with a separate automatic control to shut off the lighting. This automatic control shall meet the requirements of Section 119 and may be an occupancy sensor, automatic time switch, or other device capable of automatically shutting off the lighting.
2.	Override for Building Lighting Shut-off: The automatic building shut-off system is provided with a manual, accessible override switch in sight of the lights. The area of override is not to exceed 5,000 square feet.
§119(h):	Automatic Control Devices Certified: All automatic control devices specified are certified, all alternate equipment shall be certified and installed as directed by the manufacturer.
§111:	Fluorescent Ballast and Luminaires Certified: All fluorescent fixtures specified for the project are certified and listed in the Directory. All installed fixtures shall be certified.
§131(a):	Individual Room/Area Controls: Each room and area in this building is equipped with a separate switch or occupancy sensor device for each area with floor-to-ceiling walls.
§131(b):	Uniform Reduction for Individual Rooms: All rooms and areas greater than 100 square feet and more than 0.8 watts per square foot of lighting load shall be controlled with bi-level switching for uniform reduction of lighting within the room.
§131(c):	Daylight Area Control: All rooms with windows and skylights that are greater than 250 square feet and that allow for the effective use of daylight in the area shall have 50% of the lamps in each daylit area controlled by a separate switch; or the effective use of daylight cannot be accomplished because the windows are continuously shaded by a building on the adjacent lot. Diagram of shading during different times of the year is included on plans.
§131(c):	Display Lighting. Display lighting shall be separately switched on circuits that are 20 amps or less.6.

Outdoor Lighting Measures:

§130(c)1:	Mandatory lighting power determination for medium base sockets without permanently installed ballasts
§132(a):	All permanently installed luminaires with lamps rated over 100 Watts either have a lamp efficacy of at least 60 lumens per Watt or are controlled by a motion sensor.
§132(b):	All Luminaires with lamps rated greater than 175 Watts in hardscape area, including parking lots, building entrances, canopies, and all outdoor sales areas meet the Cutoff Requirements.
§132(c)1:	All permanently installed outdoor lighting meets the control requirements listed.
§132(c):	Building facades, parking lots, garages, canopies, and outdoor sales areas meet the Multi-Level Lighting Requirements listed.

MECHANICAL MANDATORY MEASURES: NONRESIDENTIAL — MECH-MM

Project Name	Date
Subway	*25-Feb-14*

Equipment and System Efficiencies

§111:	Any appliance for which there is a California standard established in the Appliance Efficiency Regulations will comply with the applicable standard.
§115(a):	Fan type central furnaces shall not have a pilot light.
§123:	Piping, except that conveying fluids at temperatures between 60 and 105 degrees Fahrenheit, or within HVAC equipment, shall be insulated in accordance with Standards Section 123.
§124:	Air handling duct systems shall be installed and insulated in compliance with Sections 601, 602, 603, 604, and 605 of the CMC Standards.

Controls

§122(e):	Each space conditioning system shall be installed with one of the following:
1A.	Each space conditioning system serving building types such as offices and manufacturing facilities (and all others not explicitly exempt from the requirements of Section 112 (d)) shall be installed with an automatic time switch with an accessible manual override that allows operation of the system during off-hours for up to 4 hours. The time switch shall be capable of programming different schedules for weekdays and weekends and have program backup capabilities that prevent the loss of the device's program and time setting for at least 10 hours if power is interrupted; or
1B.	An occupancy sensor to control the operating period of the system; or
1C.	A 4-hour timer that can be manually operated to control the operating period of the system.
2.	Each space conditioning system shall be installed with controls that temporarily restart and temporarily operate the system as required to maintain a setback heating and/or a setup cooling thermostat setpoint.
§122(g):	Each space conditioning system serving multiple zones with a combined conditioned floor area more than 25,000 square feet shall be provided with isolation zones. Each zone: shall not exceed 25,000 square feet; shall be provided with isolation devices, such as valves or dampers that allow the supply of heating or cooling to be setback or shut off independently of other isolation areas; and shall be controlled by a time control device as described above.
§122(c):	Thermostats shall have numeric setpoints in degrees Fahrenheit (F) and adjustable setpoint stops accessible only to authorized personnel.
§122(b):	Heat pumps shall be installed with controls to prevent electric resistance supplementary heater operation when the heating load can be met by the heat pump alone
§122(a&b):	Each space conditioning system shall be controlled by an individual thermostat that responds to temperature within the zone. Where used to control heating, the control shall be adjustable down to 55 degrees F or lower. For cooling, the control shall be adjustable up to 85 degrees F or higher. Where used for both heating and cooling, the control shall be capable of providing a deadband of at least 5 degrees F within which the supply of heating and cooling is shut off or reduced to a minimum.

Ventilation

§121(e):	Controls shall be provided to allow outside air dampers or devices to be operated at the ventilation rates as specified on these plans.
§122(f):	All gravity ventilating systems shall be provided with automatic or readily accessible manually operated dampers in all openings to the outside, except for combustion air openings.
§121(f):	Ventilation System Acceptance. Before an occupancy permit is granted for a newly constructed building or space, or a new ventilating system serving a building or space is operated for normal use, all ventilation systems serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance

Service Water Heating Systems

§113(c)	Installation
3.	Temperature controls for public lavatories. The controls shall limit the outlet Temperature to 110°F.
2.	Circulating service water-heating systems shall have a control capable of automatically turning off the circulating pump when hot water is not required.