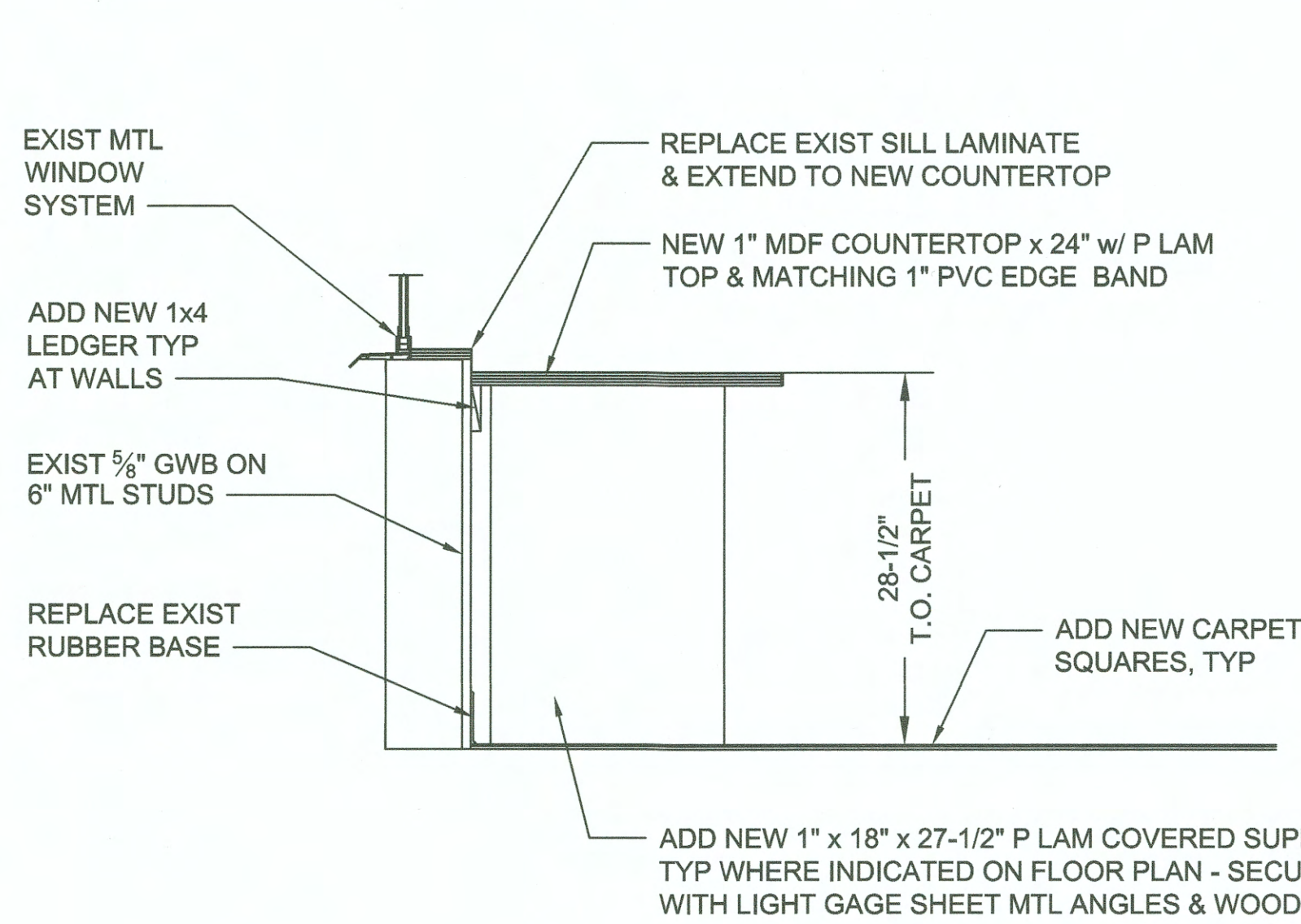
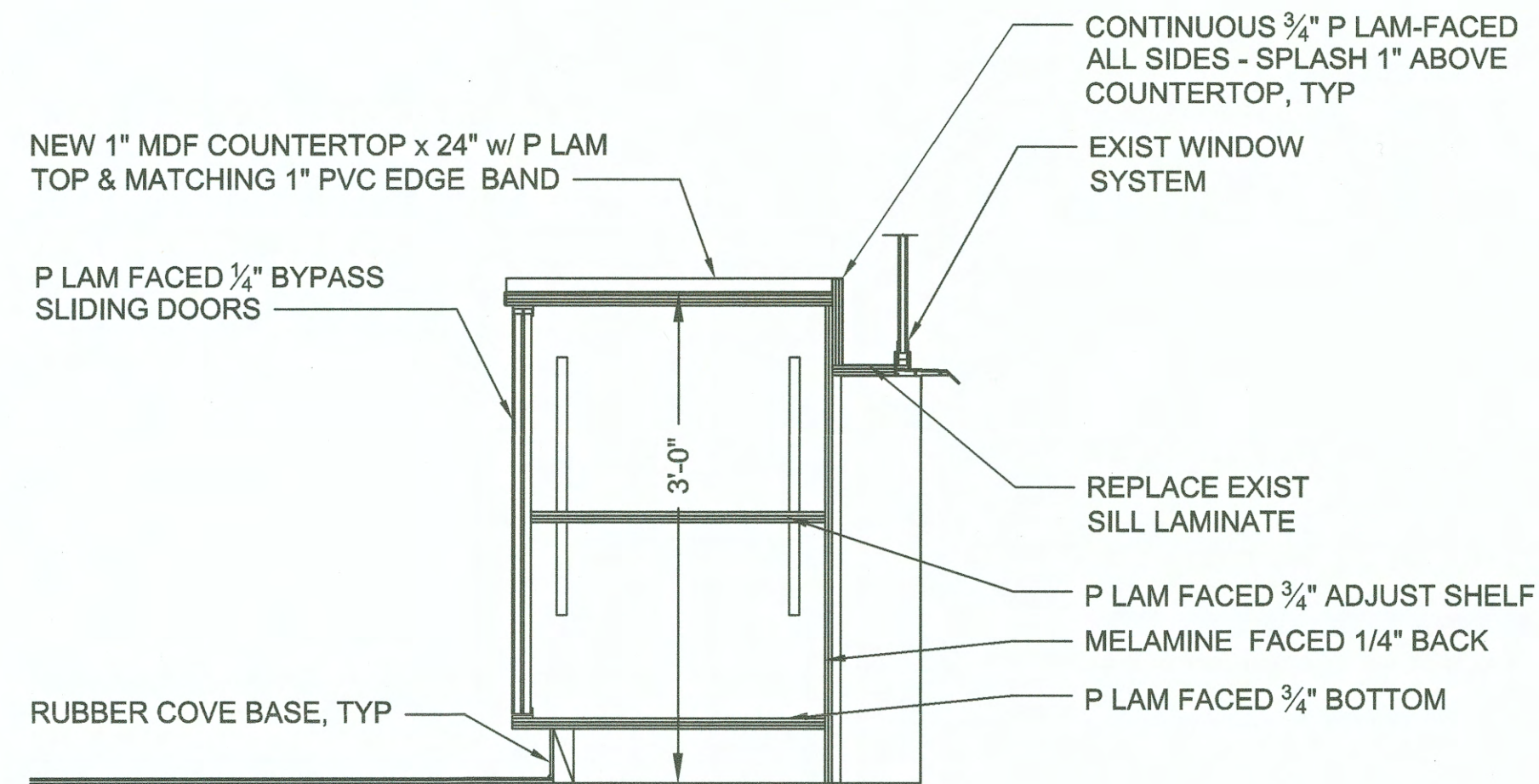
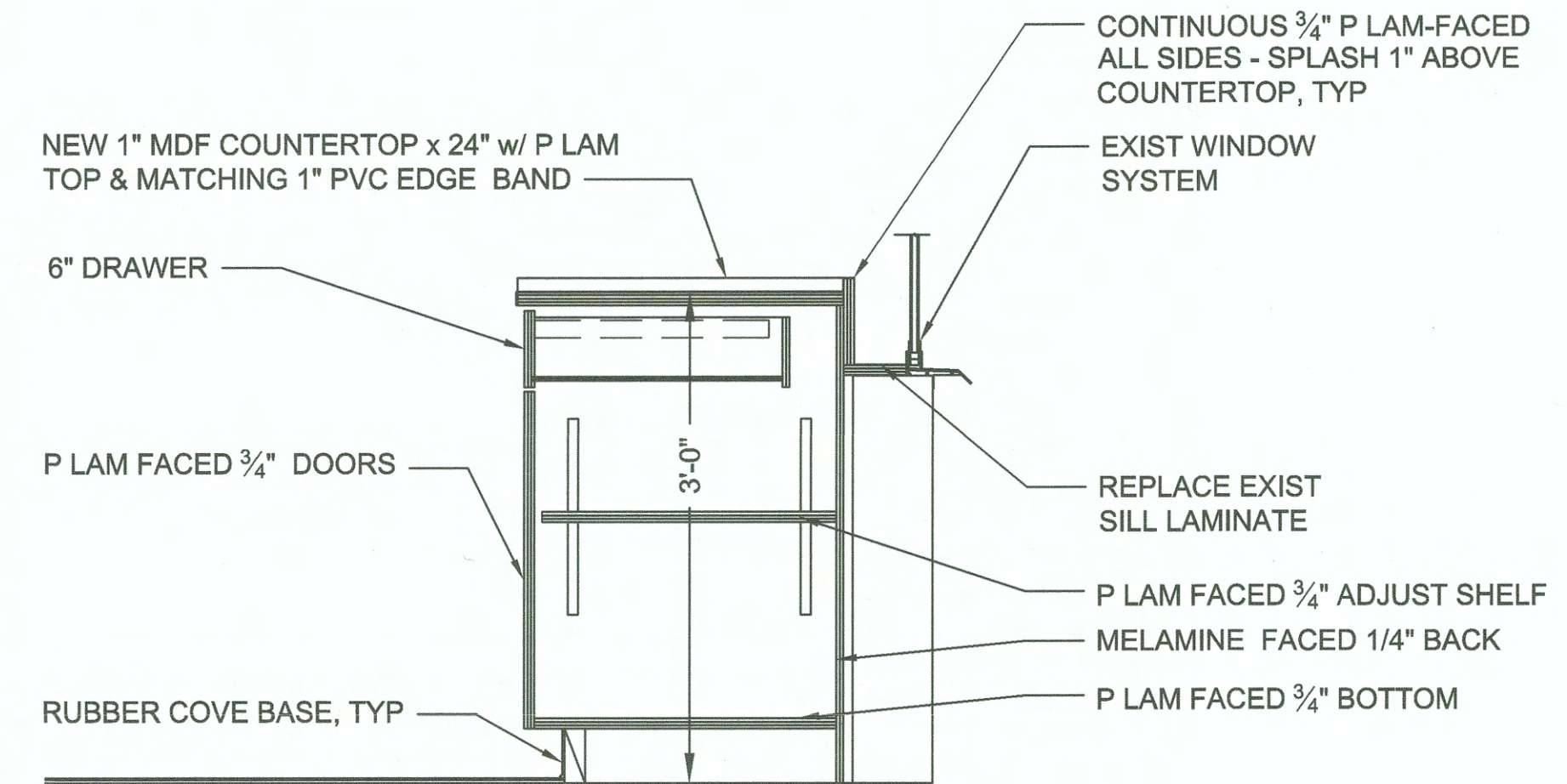




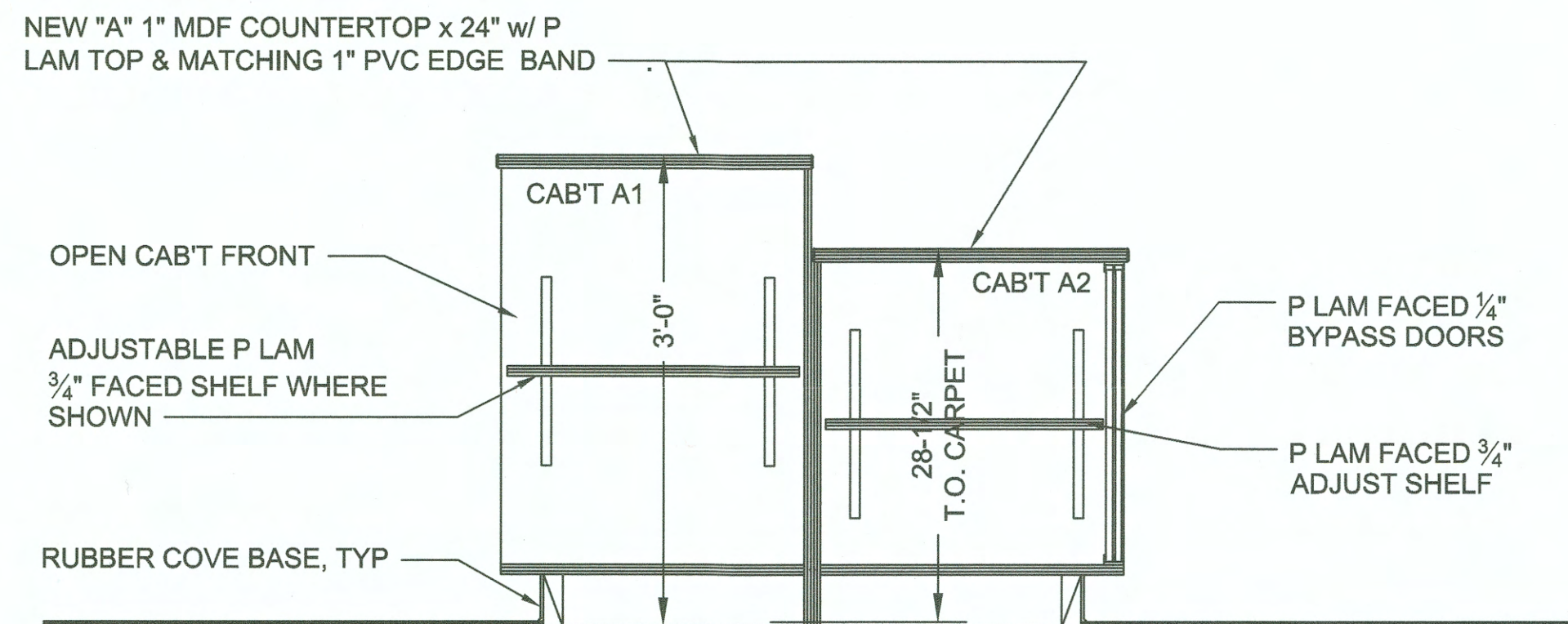
1 TYPICAL DESKTOP SECTION
A8 1"=1'-0"



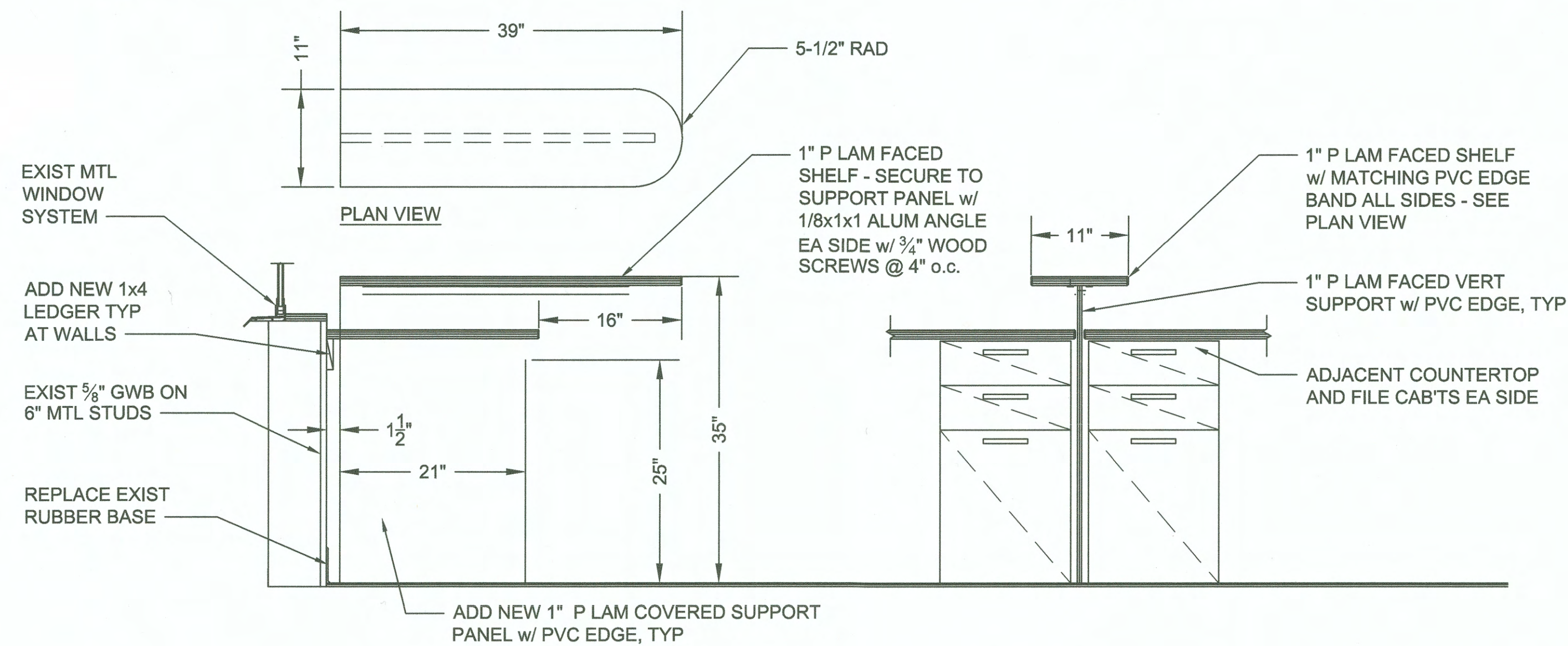
2 SINK CAB'T SECTION
A8 1"=1'-0"



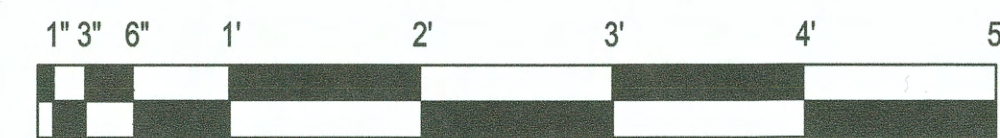
3 BREAK AREA CAB'T SECTION
A8 1"=1'-0"



4 SECTION @ CAB'TS "A1" & "A2"
A8 1"=1'-0"

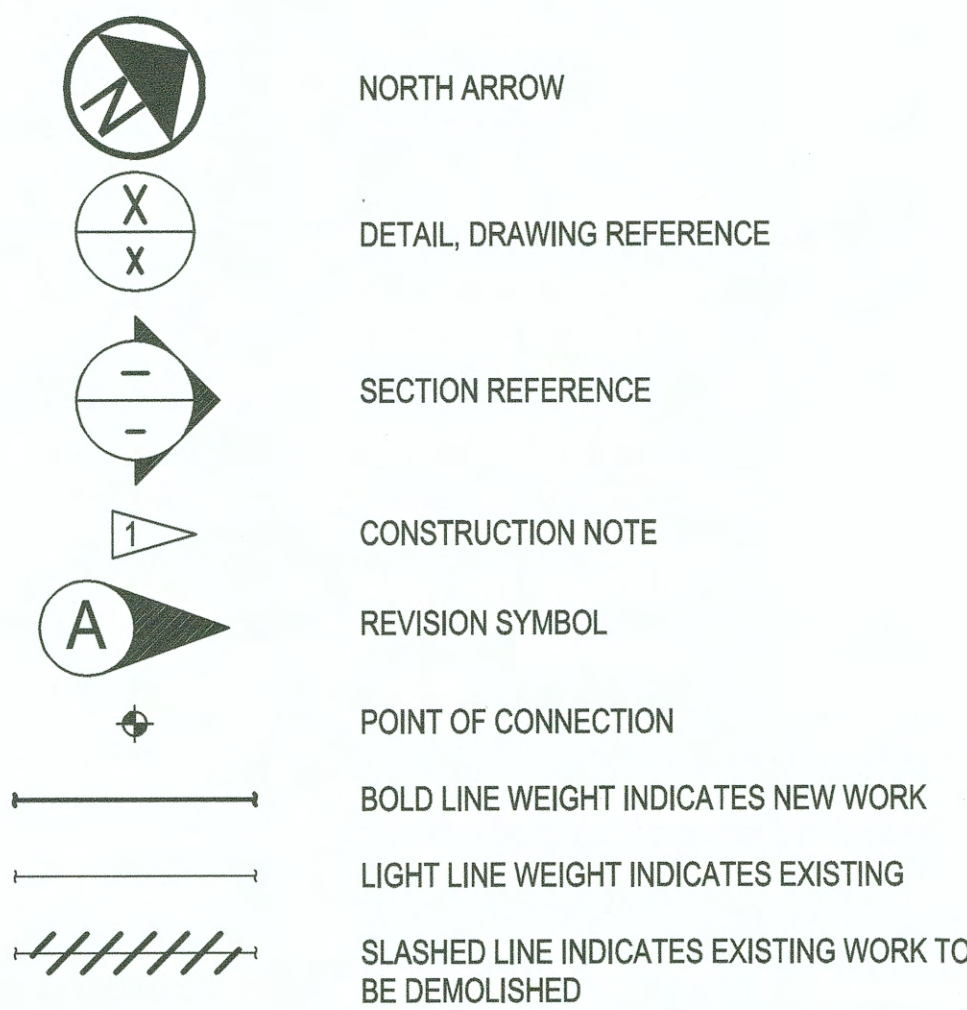


5 SECTIONS @ CUSTOM SHELF SUPPORT
A8 1"=1'-0"



6602 A3 SH #5 OF 10	CONT/CONS: 070929 M. ID: 101247.02 PHASE: PERMITTING	NIM TOWER FOURTH FLOOR RENOVATIONS DETAILS				APPROVED: <i>[Signature]</i>		CHECKED BY: <i>[Signature]</i>	DATE: 2/1/19
		TOWNSHIP: 070929	RANGE: 19.39'	SECTION: @ Tide 22 1933	DIRECTOR ENG. DATE: 2/1/19	PROJECT ENG. DATE: Jan 03, 2019	PROJ. ENGR. DATE: Jan 03, 2019	DATE: 2/1/19	DATE: 2/1/19
		DAT-HRZ: 101247.02	WAB3-SF	VERT: MLLW 19.39'	PRINTED BY: thomas.roth	PORT ADDRESS: ONE SITCUM PLAZA	DATE: 2/1/19	DATE: 2/1/19	DATE: 2/1/19
		PARCEL: 101247.02	DRAWING SCALE: AS NOTED	AS NOTED	TACOMA, WA 98401-1837	DATE: 2/1/19	DATE: 2/1/19	DATE: 2/1/19	DATE: 2/1/19

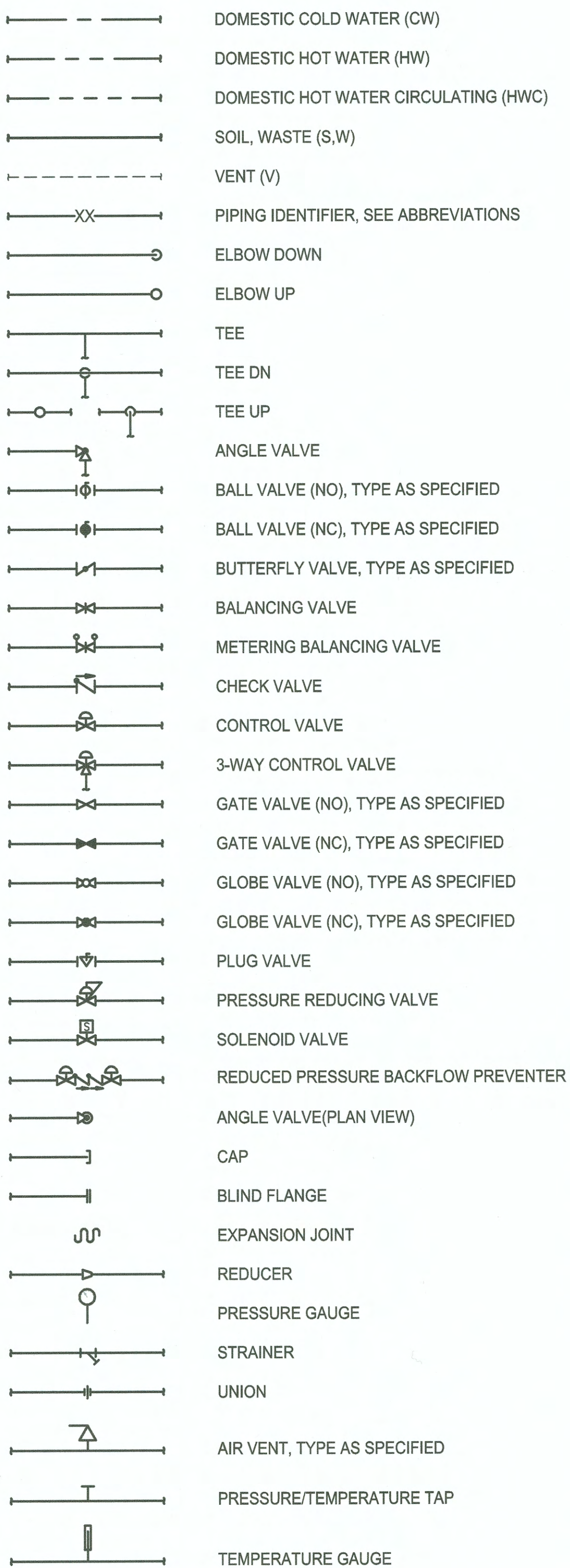
GENERAL LEGEND



CODE INFORMATION:

2015 UNIFORM PLUMBING CODE (UPC)*
2015 WASHINGTON STATE ENERGY CODE COMMERCIAL PROVISIONS (WSEC)
* INCLUDING AMENDMENTS BY THE STATE OF WASHINGTON

PLUMBING LEGEND



PLUMBING ABBREVIATIONS

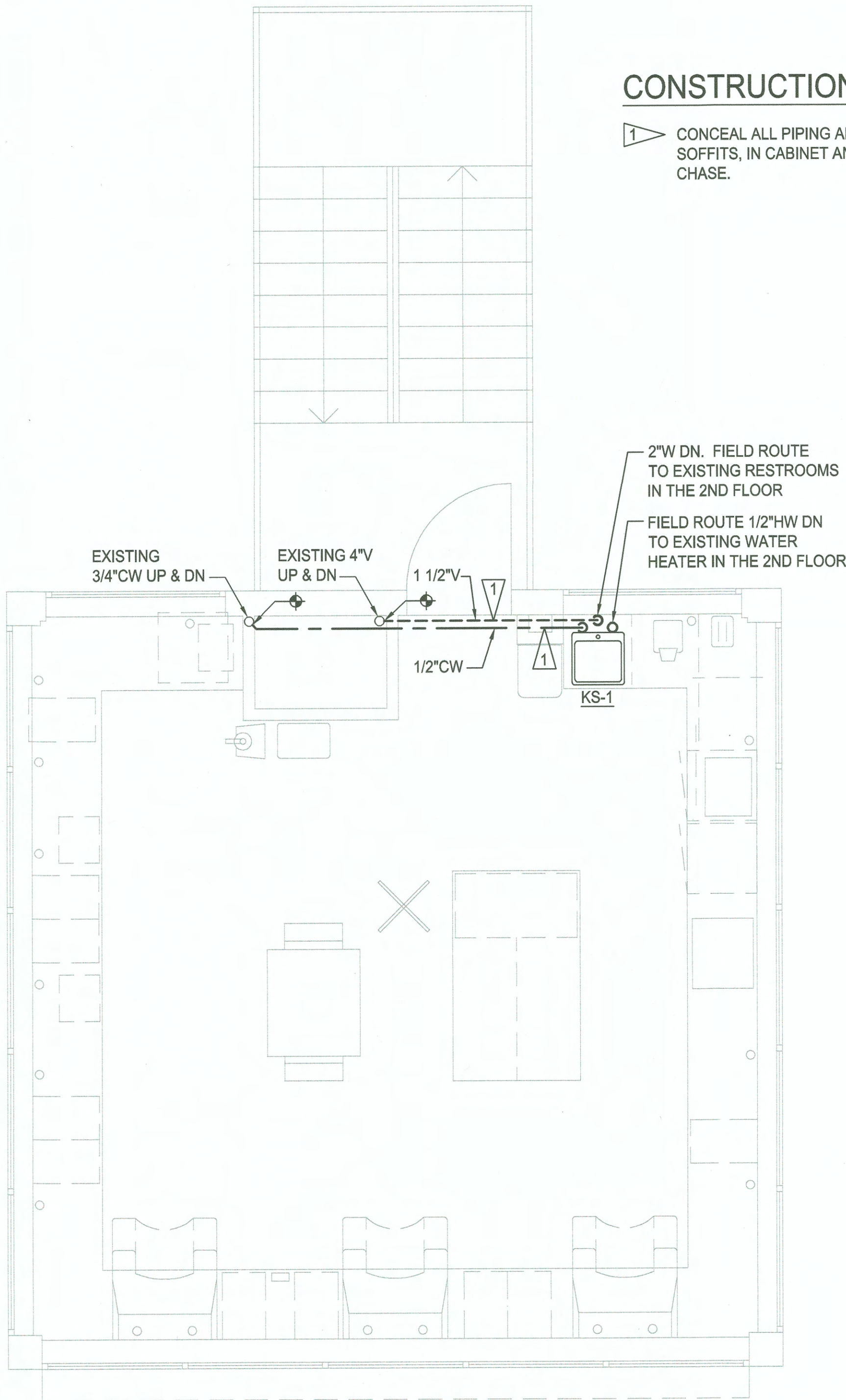
AW	ACID WASTE
A	AIR, COMPRESSED AIR
BOP	BOTTOM OF PIPE
CI	CAST IRON
CF	CHEMICAL FEED
CIRC	CIRCULATING
CW	CITY WATER; DOMESTIC COLD WATER
CO	CLEAN OUT
CA	COMPRESSED AIR
DI	DEIONIZED WATER
DW	DISTILLED WATER
DOM	DOMESTIC
DR	DOOR; DRAIN
DF	DRINKING FOUNTAIN
ES	EMERGENCY SHOWER
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
FPHB	FREEZE PROOF HOSE BIBB
G	GAS
GPH	GALLONS PER HOUR
HB	HOSE BIBB
HW	DOMESTIC HOT WATER
HWC	DOMESTIC HOT WATER CIRCULATING
IPC	INTERNATIONAL PLUMBING CODE
IW	INDIRECT WASTE
JAN	JANITOR
L	LAVATORY
MV	MEDICAL VACUUM
NPW	NON-POTABLE WATER
NO	NITROUS OXIDE; NUMBER
N	NITROGEN
O	OXYGEN
PC	PUMPED CONDENSATE
PLBG	PLUMBING
PNEU	PNEUMATIC
PRV	PRESSURE REDUCING VALVE
RWL	RAIN WATER LEADER
RECIRC	RECIRCULATING
RD	ROOF DRAIN
S	SOIL
SS	SANITARY SEWER; SERVICE SINK;
	STAINLESS STEEL
SD	STORM DRAIN
UPC	UNIFORM PLUMBING CODE
V	VENT
VA	VALVE
VAC	VACUUM
VB	VACUUM BREAKER
VTR	VENT THRU ROOF
W	WASTE; WATER; WIDE(DIM)
WC	WATER CLOSET
WFS	WATER FLOW SWITCH
Y	WYE

GENERAL NOTES:

1. ALL PLUMBING PIPING SHALL BE INSULATED FOLLOWING 2015 WSEC REQUIREMENTS.

CONSTRUCTION NOTES:

1. CONCEAL ALL PIPING ABOVE EXISTING SOFFITS, IN CABINET AND MECHANICAL CHASE.



4TH FLOOR PLUMBING PLAN

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



PLUMBING FIXTURE SCHEDULE							
MARK	FIXTURE DESCRIPTION	BRANCH PIPE SIZE - INCHES DIA.				ADDITIONAL COMPONENTS	REMARKS
		COLD WATER	HOT WATER	WASTE	VENT		
KS-1	SINGLE COMPARTMENT KITCHEN SINK	1/2"	1/2"	2"	1 1/2"	FAUCET: KOHLER MODEL #K-15171-F-CP OR AMERICAN STANDARD 7074.000.002 OR APPROVED EQUAL DRAIN: KOHLER K-8814-CP (WITH REMOVABLE STRAINER BASKET) OR AMERICAN STANDARD 9028000.075 OR APPROVED EQUAL	KOHLER MODEL # K-3348-3-NA OR AMERICAN STANDARD MODEL # 20SB.8252283S.075 OR APPROVED EQUAL PROVIDE FILTER UNDER COUNTER ON COLD WATER LINE TO SINK. FILTER: CULLIGAN MODEL # IC-1000 OR HONEYWELL MODEL # EX-CP-40 OR APPROVED EQUAL

P.O. BOX 1887 TACOMA, WA 98401 (253) 835-5841

FSI consulting engineers
Seattle, Washington

Solutions & Service

MARK: _____

REVISION: _____

BY: _____

DATE: _____

APPROVED:

DIRECTOR ENG. DATE: 2/4/19

PRINTED BY: christ May 03, 2018

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

NIM TOWER
FOURTH FLOOR RENOVATIONS
4TH FLOOR PLUMBING PLAN

#6581
M1

SH # OF #

CONT/CONS: 070781

M. ID: 201036.01

PHASE: PERMITTING

TOWNSHIP: _____

DAT-HRZ: WA83-SF

RANGE: _____

VERT: MLLW 19.39' @ Tide 22 1933

SECTION: _____

DRAWING SCALE: AS NOTED

PARCEL: _____

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ABBREVIATION

DEFINITION

A, AMP	AMPERE
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERES INTERRUPTING CURRENT
AIL	AMBER INDICATING LIGHT
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
BM	BEAM MIRROR
BP	BY-PASS CONTACTOR
BT	BEAM TRANSMITTER
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CNTL	CONTROL
CO	CONDUIT ONLY
CONTD	CONTINUED
CR	CONTROL RELAY
CT	CURRENT TRANSFORMER
CU	COPPER
DB	DUCT BANK
DET	DETAIL
DIAG	DIAGRAM
DISC	DISCONNECT
DWG(S)	DRAWING(S)
EL, ELEV	ELEVATION
EMER	EMERGENCY
EQUIP	EQUIPMENT
ETM	ELAPSED TIME METER
FDR	FEEDER
GEN	GENERATOR
GFCI	GROUND-FAULT CIRCUIT INTERRUPTING
GFI	GROUND-FAULT INTERRUPTION
GFP	GROUND-FAULT PROTECTION
GIL	GREEN INDICATING LIGHT
GND	GROUND
GRS	GALVANIZED RIGID STEEL
HH	HAND HOLE
HOA	HAND-OFF-AUTO
HTR	HEATER
I/O	INPUT/OUTPUT
IC	ISOLATION CONTACTOR
IG	ISOLATED GROUND
INST	INSTANTANEOUS
INTLK	INTERLOCK
J	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILLS
KV	KILOVOLTS
KVA	KILOVOLT AMPERES (APPARENT POWER)
KVAR	KILOVARS (REACTIVE POWER)
KW	KILOWATTS (REAL POWER)
KWH	KILOWATT HOUR
LS	LEVEL SWITCH
LSH	LEVEL SWITCH HIGH
LT	LEVEL TRANSMITTER
LTG	LIGHTING
mA	MILLIAMPERES
MAN	MANUAL
MCC	MOTOR CONTROL CENTER
MH	MAN HOLE
MTR,M	MOTOR
MTS	MANUAL TRANSFER SWITCH
mV	MILLIVOLTS
N.C.	NORMALLY CLOSED
NF	NON-FUSED
N.O.	NORMALLY OPEN
NO.	NUMBER
NP	NAMEPLATE
NTS	NOT TO SCALE
OL	OVERLOAD
P	PHOTOELECTRIC
PC	PHOTOELECTRIC CONTROL UNIT
PH, Ø	PHASE
PNL	PANEL
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
REF	REFERENCE
RECP	RECEPTACLE
R/F	RATE OF RISE/FIXED TEMPERATURE
RIL	RED INDICATING LIGHT
RTD	RESISTANCE TEMPERATURE DETECTOR

ABBREVIATION

DEFINITION

S, SEC	SECOND
SEL	SELECTOR
SPEC	SPECIFICATION
S.S.	STAINLESS STEEL
SW	SWITCH
SWGR	SWITCH GEAR
TB	TERMINAL BOX, TERMINAL BLOCK
TSP	TWISTED SHIELDED PAIR
TST	TWISTED SHIELDED TRIAD
TYP	TYPICAL
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
Vac or VAC	VOLTS ALTERNATING CURRENT
Vdc or VDC	VOLTS DIRECT CURRENT
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE
W/	WITH
W/O	WITHOUT
WIL	WHITE INDICATING LIGHT
WP	WEATHER PROOF (NEMA 4)
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
ZS	POSITION SWITCH

LIGHTING

	LINEAR FIXTURE, TYPE AS NOTED
	LINEAR WALL FIXTURE
	RECESSED TROFFER FIXTURE
	DISCRETE WALL FIXTURE
	RECESSED DOWNLIGHT
	ULTRASONIC OCCUPANCY SENSOR
	LIGHTING SWITCH
	3-WAY SWITCH
	TWO 3-WAY SWITCHES
	FIXTURE TYPE IDENTIFICATION CALL-OUT AND SOURCE WATTAGE. REFER TO FIXTURE SCHEDULE FOR DETAILED REQUIREMENTS.

CONDUIT AND WIRING

	CONDUIT IN SLAB OR BELOW GRADE
	CONDUIT EXPOSED
	GROUNDING CONDUCTOR 30" BELOW GRADE
	CONDUIT BENDS TOWARD OBSERVER
	CONDUIT BENDS AWAY FROM OBSERVER
	CONDUIT STUB
	PHASE / SWITCHLEG CONDUCTOR
	HOMERUN / CONDUIT
	GROUND CONDUCTOR
	NEUTRAL CONDUCTOR
	PANEL AND CIRCUIT (EXAMPLE: PANEL 2L1, CIRCUITS 1 AND 3)
	JUNCTION BOX

POWER

	MOTOR CONNECTION
	EQUIPMENT CONNECTION
	RECEPTACLE - DUPLEX
	RECEPTACLE - GFCI TYPE
	RECEPTACLE - GFCI TYPE WITH WEATHER-PROOF IN-USE COVER
	DEVICE CONNECTION
	RECEPTACLE - SPECIAL
	THERMOSTAT
	DISCONNECT SWITCH
	DISCONNECT SWITCH "F" INDICATES FUSED, SEE PLANS FOR RATING
	COMBINATION STARTER AND DISCONNECT SWITCH
	BRANCH PANELBOARD 120/240V
	120VAC CLOCK HANGER OUTLET
	UTILITY WATT-HOUR REVENUE METER
	MULTI-SERVICE FLOOR BOX OR PEDESTAL

GENERAL ANNOTATIONS

	KEY NOTES
	CALLOUT - EQUIPMENT

GENERAL WORK DEFINITIONS

	LIGHT LINE INDICATED EXISTING ELECTRICAL OR EXISTING EQUIPMENT. LIGHT LINE MAY ALSO BE USED FOR DETAIL DRAWING CLARITY.
	HEAVY LINE INDICATES NEW WORK
	EXISTING WORK TO BE REMOVED
	EXISTING WORK TO BE RELOCATED

SIGNAL AND COMMUNICATIONS

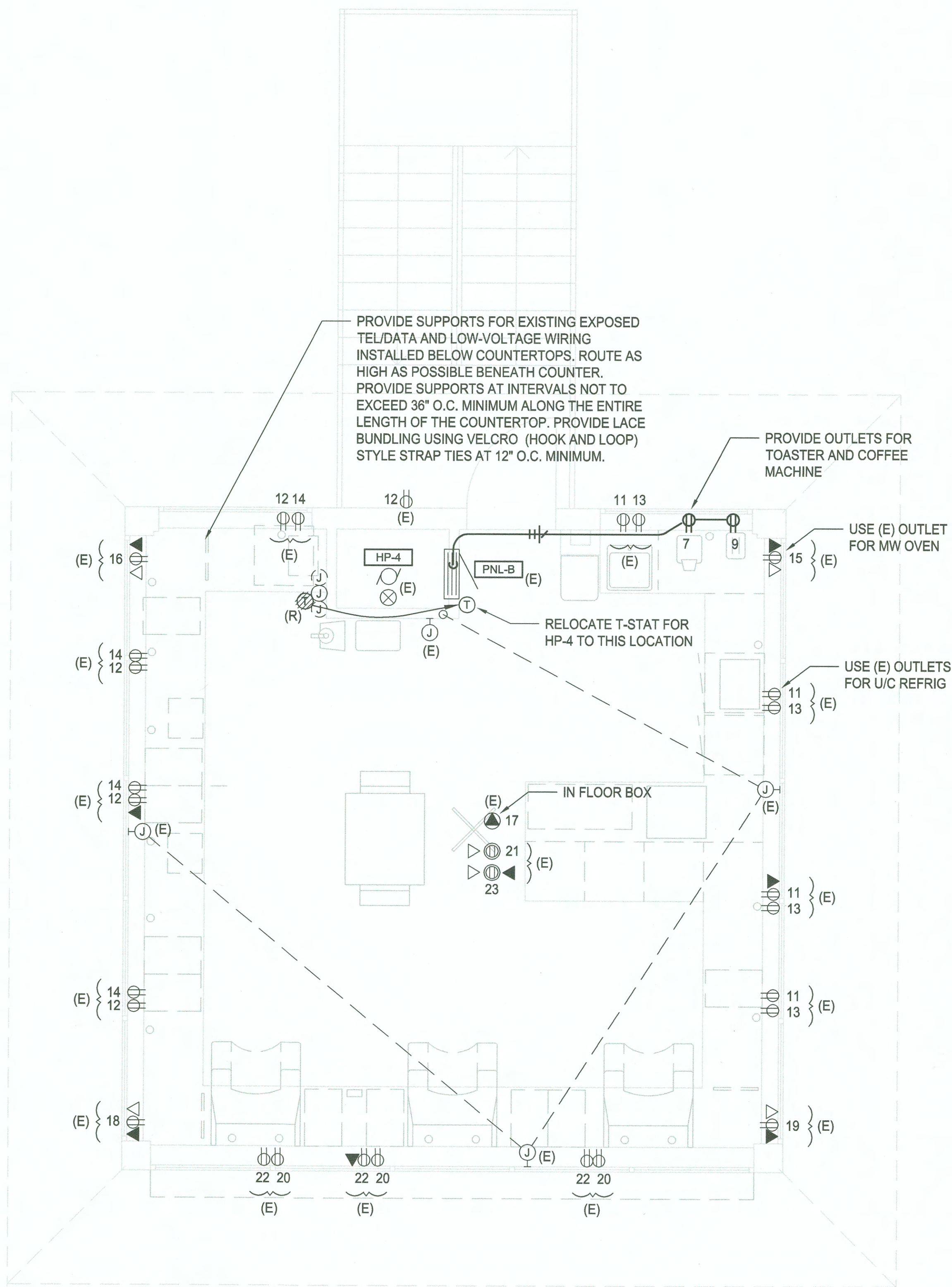
	TERMINAL BOX
	JACK - VOICE / DATA
	JACK - DATA OR OUTLET BOX ONLY
	JACK - VOICE

6602 E1 6 OF 10	NIM TOWER FOURTH FLOOR RENOVATIONS ELECTRICAL SYMBOLS	APPROVED: DIRECTOR ENG. DATE: 2/4/19	CHECKED BY	DATE
			PROJ. ENGR	DATE
CONTR/CONS: 070929	TOWNSHIP:	SECTION:	RANGE:	VERT:
M. ID: 101247.02	DAT-HRZ: WA83-SF	VERT:	MLLW 19.39' @ Tide	22 1933
PHASE: PERMITTING	PARCEL:	DRAWING SCALE:	AS NOTED	

TETRA TECH
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Seattle, WA 98101
Tel: 206.863.8438 Fax: 206.863.8441

4-27-18

MARK:	REVISION:	BY:	DATE:
APPR:			



4th FLOOR PLAN - POWER & COMM

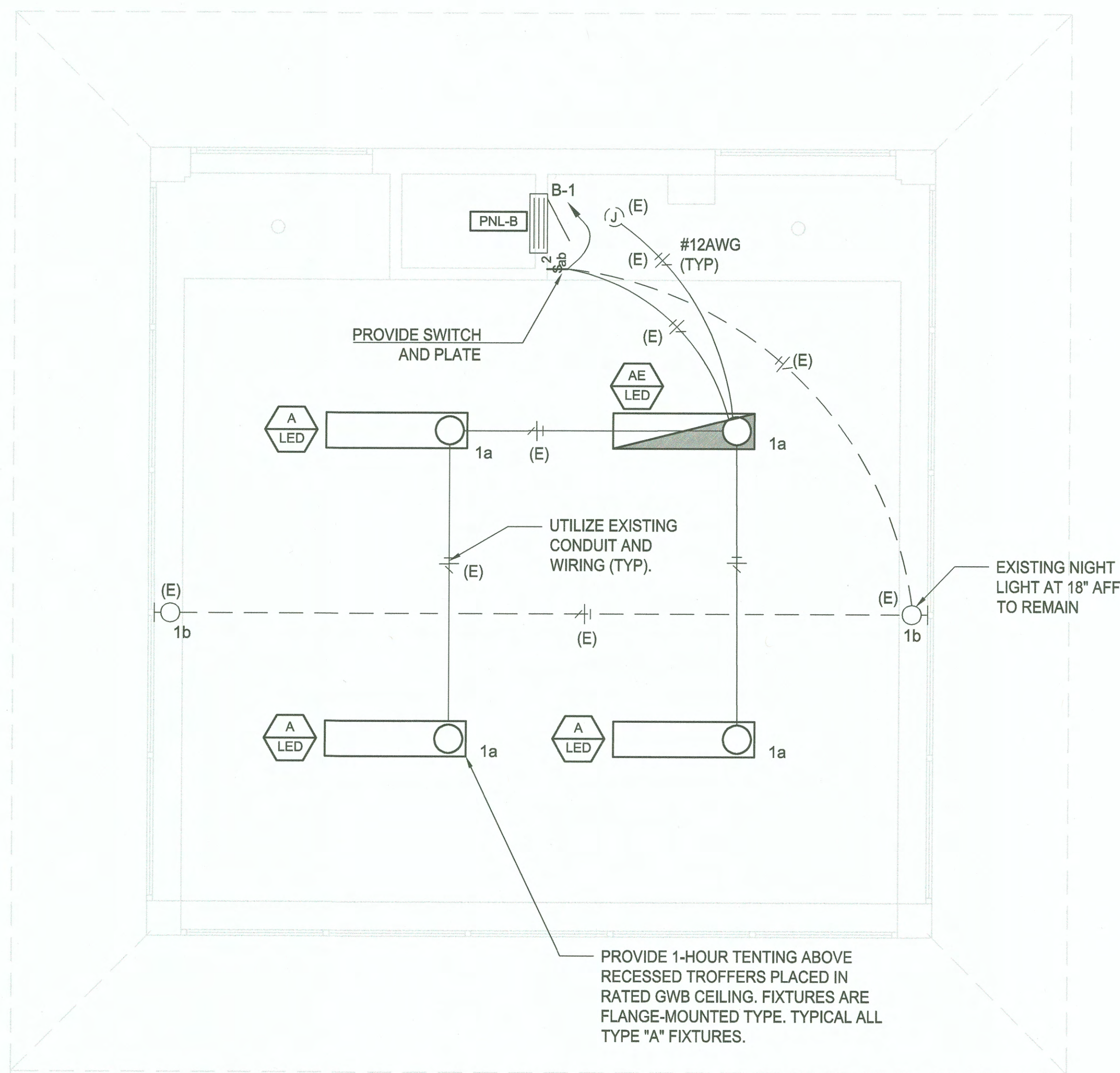
SCALE: 3/8" = 1'-0"



ENERGY CODE COMPLIANCE WAC 51-11

SECTION 405.4 - LIGHTING POWER DENSITY
ALLOWANCE 0.78W/SQ-FT OPEN OFFICE X 473 SQ-FT = 369W ALLOWED
PROPOSED LIGHTING SYSTEM = (4) X 51W (TYPE 'A') + (2) NIGHT LIGHTS X 25W/EA
PROPOSED LIGHTING LOAD = 254W

WAC 51-11 ALTERATION EXCEPTION USED FOR CONTROLS. EXISTING WIRING TO REMAIN.



4th FLOOR LIGHTING PLAN

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



6602
E2

SH #7 OF 10

CONT/CONS: 070929

M. ID: 101247.02

PHASE: PERMITTING

NIM TOWER
FOURTH FLOOR RENOVATIONS
ELECTRICAL PLANS

TOWNSHIP: RANGE: M.L.W. 19.39' @ Tide 22.1933

DAT-HRZ: WA83-SF VERT: DRAWING SCALE: AS NOTED

PARCEL: SECTION: PRINTED BY: thomas.roth Jan 03, 2019

PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837

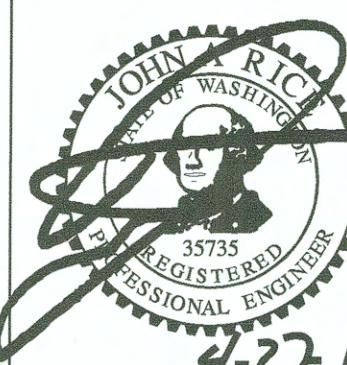
CHECKED BY: DATE

PROJ. ENGR DATE

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