Room Finish Schedule

Room Number	Room Name	Floor	Base	North Wall		East Wall		South Wall		West Wall		Remarks
				Material	Finish	Material	Finish	Material	Finish	Material	Finish	
242	DNA LAB	RF	RB	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	
242A	VESTIBULE	RF	RB	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	
243	OFFICE	CPT	RB	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	
244	POST AMP	RF	RB	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	
245	SECURE STORAGE	RF	RB	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	

Door Schedule

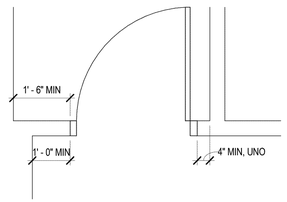
Door Number	Width	Height	Door					Frame				Head	Jamb	Sill	Fire Rating	Elec Reqs	Remarks
			Type	Leaf Qty	Mat'l	Finish	Glazing	Type	Material	Finish	Glazing						
242A (E)	4' - 6"	7' - 0"														YES	CARD READER
242B	4' - 6"	7' - 0"	D3	2	WD	S&V	YES	F2	HM	PT-2	T	HM	HM	N/A	NONE	NO	
243A	3' - 0"	7' - 0"	D2	1	WD	S&V	YES	F1	HM	PT-2	T	HM	HM	N/A	NONE	NO	
243B	3' - 0"	7' - 0"	D2	1	WD	S&V	YES	F1	HM	PT-2	T	HM	HM	N/A	NONE	NO	
244A	3' - 0"	7' - 0"	D4	1	WD	S&V	YES	F1	HM	PT-2	T	HM	HM	N/A	NONE	NO	
244B	3' - 0"	7' - 0"	D4	1	WD	S&V	YES	F1	HM	PT-2	T	HM	HM	N/A	NONE	NO	
245	3' - 0"	7' - 0"	D1	1	WD	S&V	NO	F1	HM	PT-2	N/A	HM	HM	N/A	NONE	YES	CARD READER

Finish Schedule Legend

FLOORS	
RF	RESILIENT FLOORING
CPT-1	CARPET TILE
BASE	
RB	RUBBER BASE
WALL/WAINSCOT	
GWB	GYPSUM WALL BOARD
CEILING	
ACT-1	ACOUSTIC CEILING TILE
PAINT	
PT-1	WHITE PAINT
PT-2	GRAY PAINT
CASEWORK	
EP-1	EPOXY RESIN COUNTERTOP - BLACK
PL-1	PLASTIC LAMINATE - MAPLE
PL-2	PLASTIC LAMINATE - SLATE GREY

Door Schedule Notes

1. See Section 08 8700 for finish hardware and hardware schedule.
2. See Section 08 8800 for glazing types.
3. Provide continuous sealant between door frames and adjacent surfaces, both sides.
4. Fill all door frame perimeters with mineral fiber insulation.
5. All exit doors shall be operable from the inside without the use of keys or any special knowledge or effort.
6. For all doors indicated to receive electrically-powered hardware, coordinate all work with electrical for a complete and operating system.



4 / A3.02 Typical Jamb Setback
Scale: 1/2" = 1'-0"

Floor Plan Notes

1. See A7.00 for interior partition types.
2. Metal stud walls are dimensioned from centerline of stud except where dimensioned from existing walls. At dimensions to existing walls, dimension to face of wall.
3. Dimensions noted as clear are final finished surface to final finished surface.
4. Mechanical and electrical components identified on architectural plans are for general information and are not intended to fully describe such features. For full descriptions, see Mechanical and Electrical drawings.
5. All conduit, piping, and ductwork to be concealed UON.
6. Provide blocking and backing for all wall-mounted materials, accessories, equipment, and furnishings. Coordinate with all other disciplines.
7. See A7.01 for casework information.
8. OFOI Furnishing Systems. OFCI power and OFCI atat ref: Electrical.

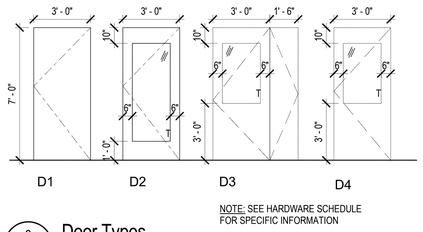
Floor Plan Legend

Existing

New Construction

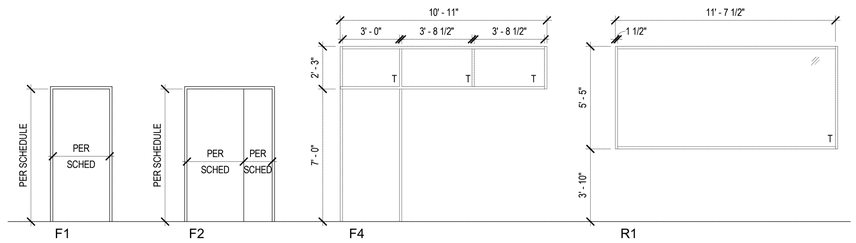
Hollow Metal Notes

1. See Glazing specification for all glazing types. Provide glazing in all borrowed lites UON.
2. Provide tempered glazing where indicated by "T". Whether indicated or not, provide tempered glazing where required by applicable codes / authorities having jurisdiction.
3. Provide sealant all around frame perimeters, both sides.

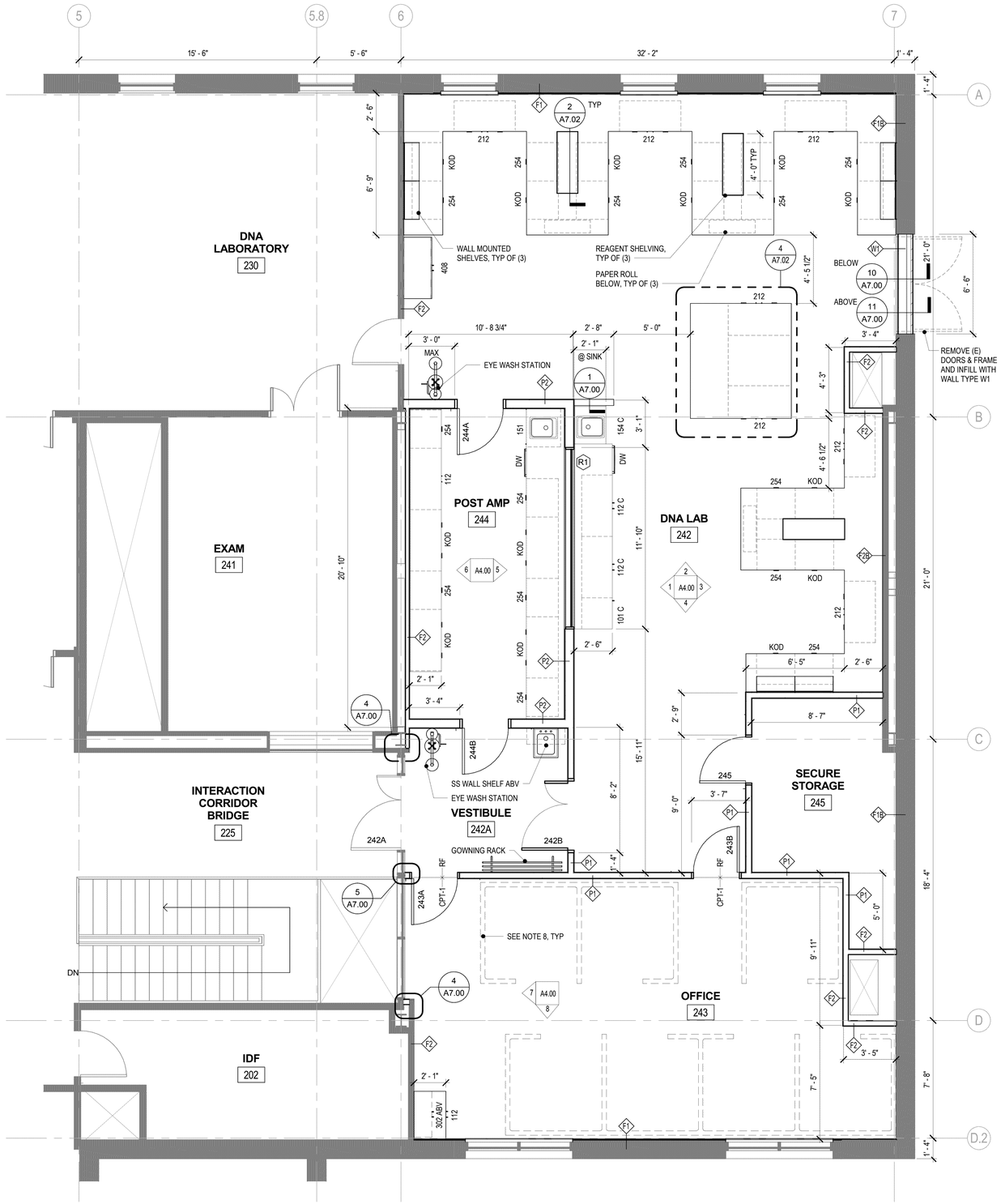


NOTE: SEE HARDWARE SCHEDULE FOR SPECIFIC INFORMATION

3 / A3.02 Door Types
Scale: 1/4" = 1'-0"



2 / A3.02 Door & Relite Frame Types
Scale: 1/4" = 1'-0"



N / 1 / A3.02 Second Floor Plan - Partial
Scale: 1/4" = 1'-0"

SSW ARCHITECTS
SCHREIBER STARLING WHITEHEAD
901 FIFTH AVE NO 3100
SEATTLE, WA 98164
206-682-8300
SSWARCHITECTS.COM

4199 REGISTERED ARCHITECT
KEITH JAMES SCHREIBER
STATE OF WASHINGTON

WASHINGTON STATE PATROL
WSP

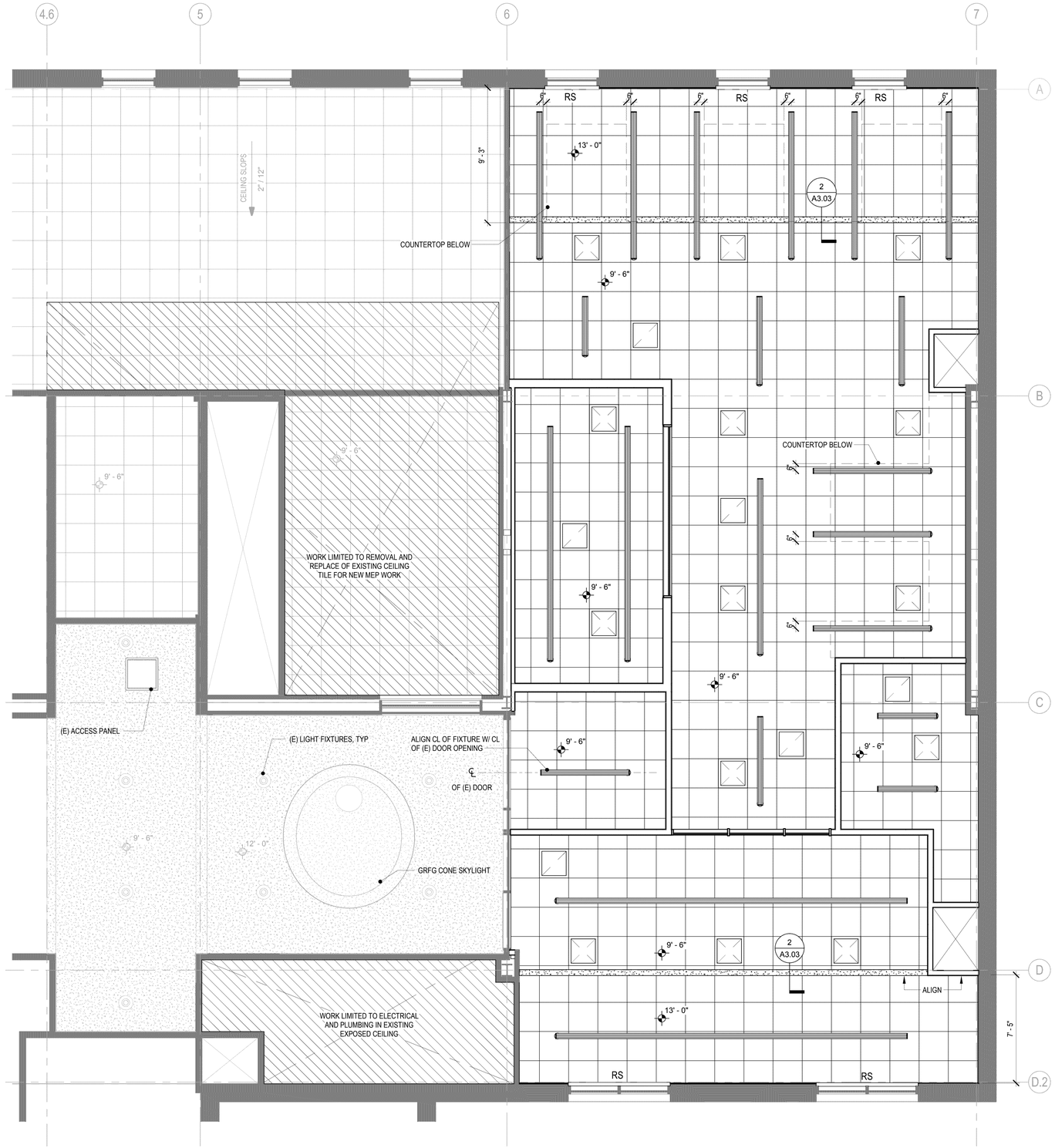
High Throughput DNA Lab T.I.

Bid Documents

Second Floor Plan

Client Project	2019-093
SSW Architects Project No.:	18054
Date	09/16/19

A3.02



1 A3.03 — Second Floor Ceiling Plan - Partial

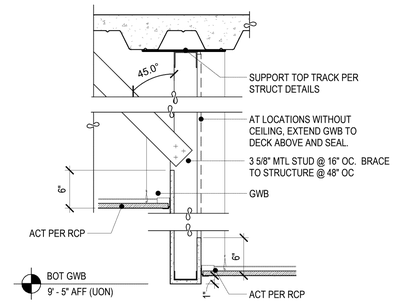
Scale: 1/4" = 1'-0"

Ceiling Plan Notes

1. Architectural Reflected Ceiling Plans indicate general light fixture location and orientation with respect to architectural elements. Fixtures not related to architectural elements may not be depicted. See Electrical lighting plans for fixture types, any fixture locations not depicted herein, and mounting conditions.
2. Architectural Reflected Ceiling Plans indicate general mechanical diffuser and grille locations and orientation. See Mechanical drawings for types and mounting conditions.
3. Contractor shall coordinate light fixture locations to assure adequate clearance with mechanical equipment and architectural/structural elements.
4. Access doors for mechanical and electrical equipment are typically not indicated. Refer to specifications for general requirements and provide to full extent necessary. Coordinate locations and sizes with Architect prior to installation.
5. Paint all exposed piping and conduit to match adjacent finish surface color.

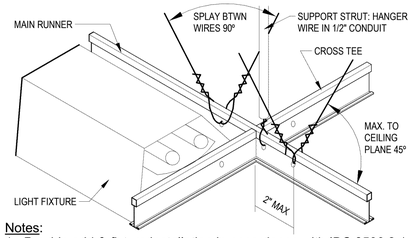
Reflected Ceiling Plan Legend

- Return Air Grille
- Supply Air Diffuser
- Linear Light Fixture
- ACT-1: 24" x 24" Acoustical Ceiling Tile
- GWB Soffit
- **RS** Roller Shade



2 A3.03 — Ceiling Detail - Typical Soffit at Ceiling Transition

Scale: 1" = 1'-0"



Notes:

1. Provide grid & fixture installation in accordance with IBC 2506.2.1, ASTM C 635, Section 13.5.6 of ASCE 7 & UL fire resistance directory.
2. Support strut and splay wire assembly to be spaced no more than 12' on center and 6 feet max. from wall. Center at corridors.
3. In lieu of 2" wall angle, install BERC2 clips and 7/8" edge molding per manufacturer's instructions.
4. Install additional hanger wires @ all members within 8" of the ceiling perimeter.

3 A3.03 — Typical Seismic Brace at ACT Ceilings

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

SSW ARCHITECTS

SCHREIBER STARLING WHITEHEAD

901 FIFTH AVE NO 3100
SEATTLE, WA 98164
206-682-8300
SSWARCHITECTS.COM

4199 REGISTERED ARCHITECT
KEITH JAMES SCHREIBER
STATE OF WASHINGTON

WASHINGTON STATE PATROL

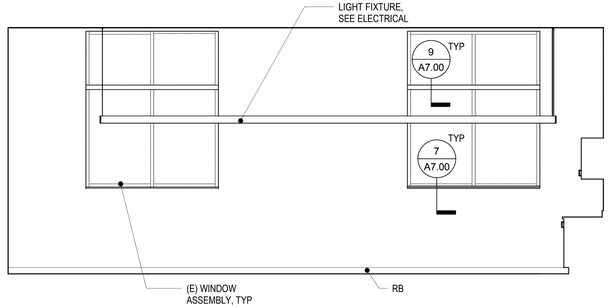
High Throughput DNA Lab T.I.

Bid Documents

Second Floor Ceiling Plan

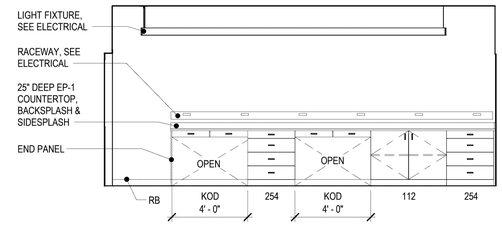
Client Project	2019-093
SSW Architects Project No.:	18054
Date	09/16/19

A3.03



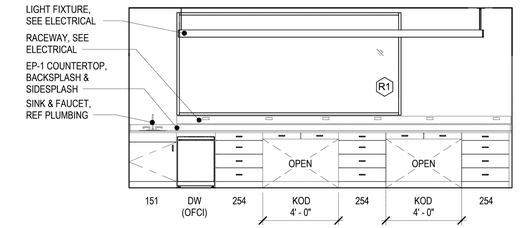
8 A4.00 Office - S Elevation

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



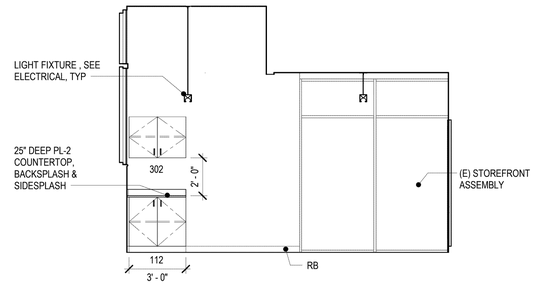
6 A4.00 Post AMP - W Elevation

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



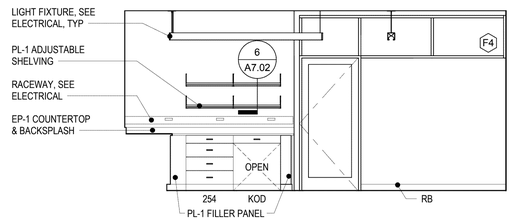
5 A4.00 Post AMP - E Elevation

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



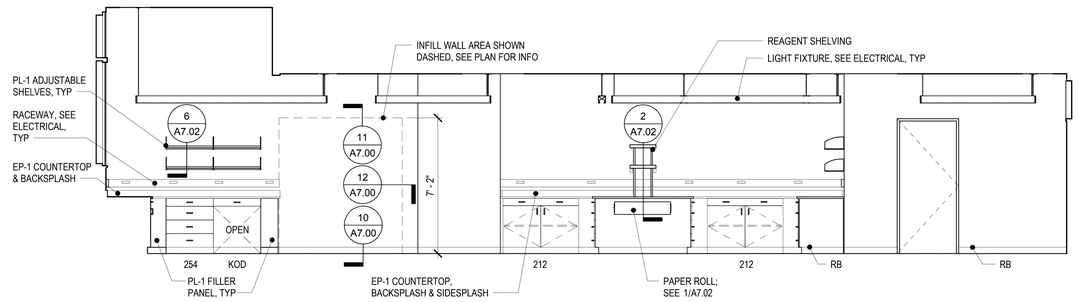
7 A4.00 Office - W Elevation

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



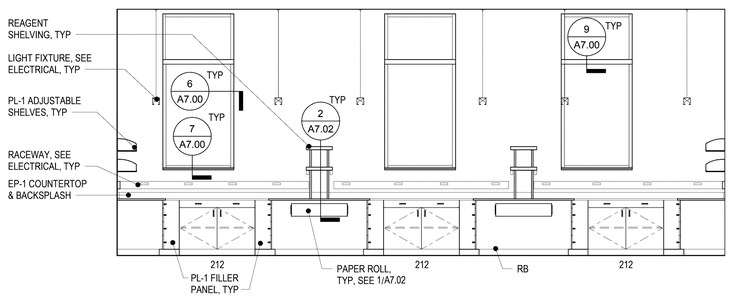
4 A4.00 DNA Lab - S Elevation

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



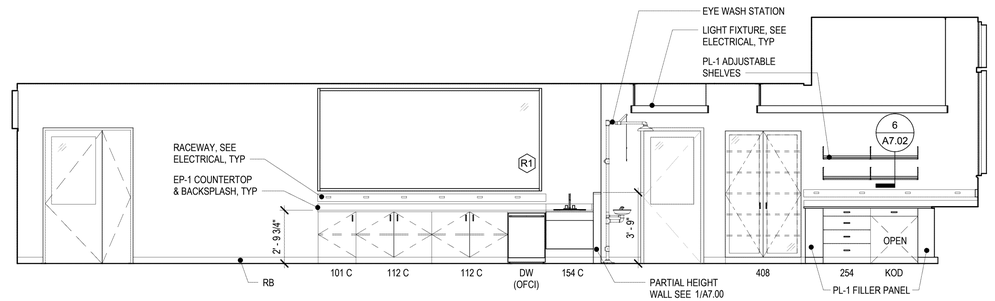
3 A4.00 DNA Lab - E Elevation

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



2 A4.00 DNA Lab - N Elevation

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



1 A4.00 DNA Lab - W Elevation

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

SSW ARCHITECTS

SCHREIBER
STARLING
WHITEHEAD

901 FIFTH AVE NO 3100
SEATTLE, WA 98164
206-682-8300
SSWARCHITECTS.COM

4199 REGISTERED ARCHITECT
KEITH JAMES SCHREIBER
STATE OF WASHINGTON

WASHINGTON STATE PATROL

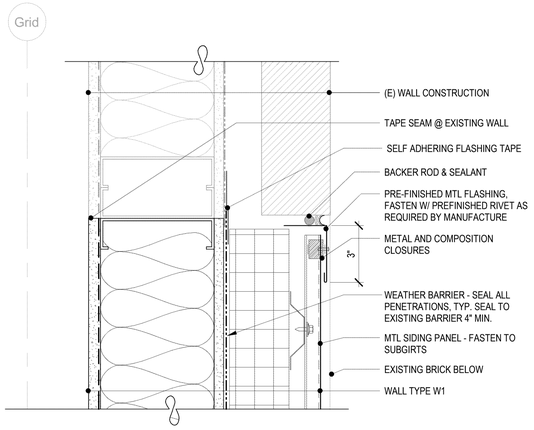
High Throughput DNA Lab T.I.

Bid Documents

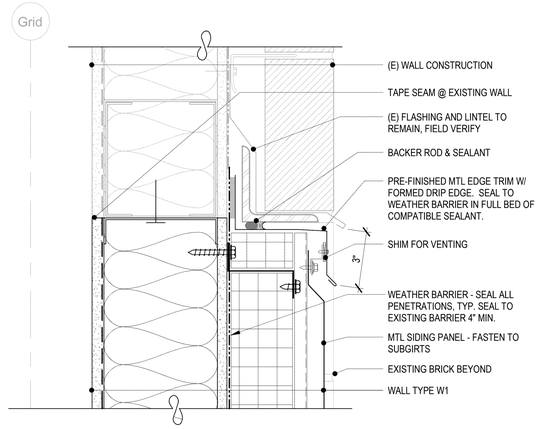
Interior Elevations

Client Project	2019-093
SSW Architects Project No.:	18054
Date	09/16/19

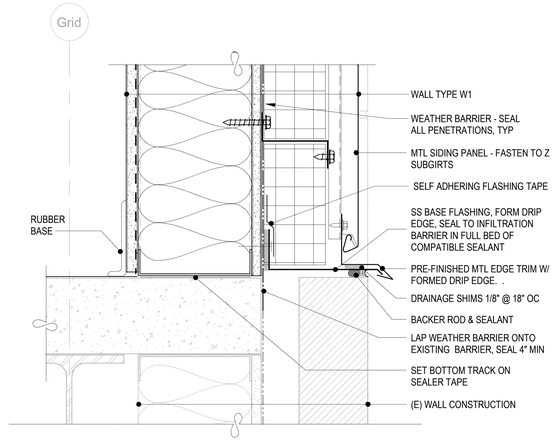
A4.00



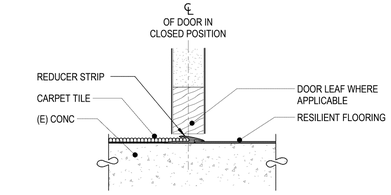
12 / A7.00 **Exterior Jamb @ Wall Type W1**
Scale: 3" = 1'-0"



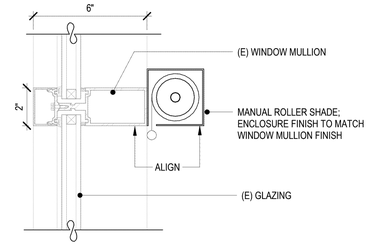
11 / A7.00 **Exterior Head @ Wall Type W1**
Scale: 3" = 1'-0"



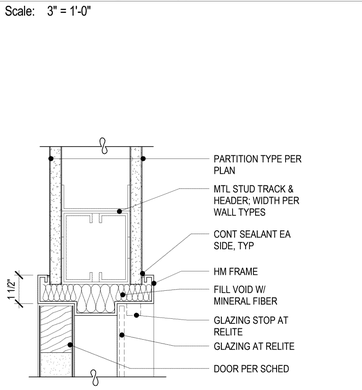
10 / A7.00 **Exterior Threshold @ Wall Type W1**
Scale: 3" = 1'-0"



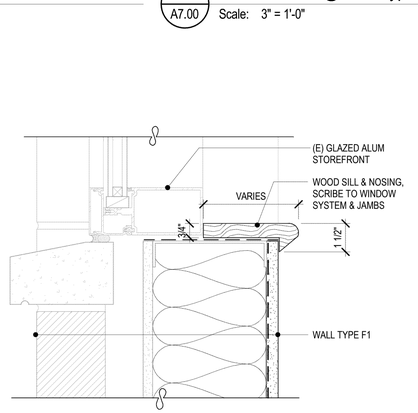
13 / A7.00 **Floor Transition - Carpet / Resilient Floor**
Scale: 3" = 1'-0"



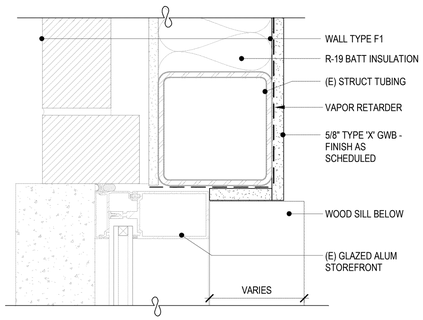
9 / A7.00 **Shade @ Intermediate Mullion**
Scale: 3" = 1'-0"



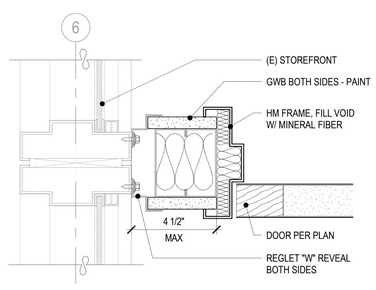
8 / A7.00 **HM Frame - Typical Head/Jamb**
Scale: 3" = 1'-0"



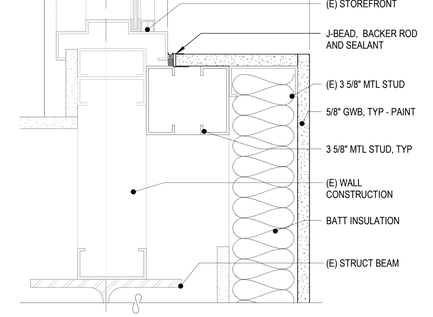
7 / A7.00 **Window - Typical Elevated Sill at Wall Type F1**
Scale: 3" = 1'-0"



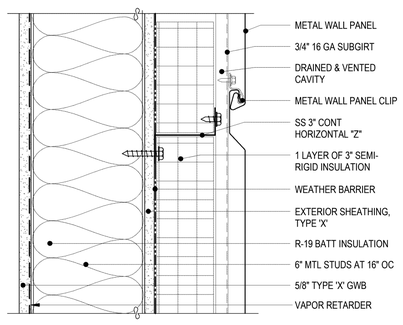
6 / A7.00 **Window - Typical Elevated Jamb at Wall Type F1**
Scale: 3" = 1'-0"



5 / A7.00 **Enlarged Plan -Wall Connection @ Storefront**
Scale: 3" = 1'-0"

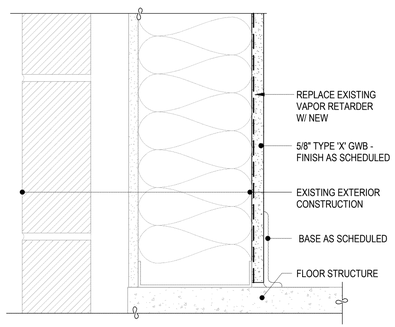


4 / A7.00 **Enlarged Plan - Furring at Structural Beam**
Scale: 3" = 1'-0"

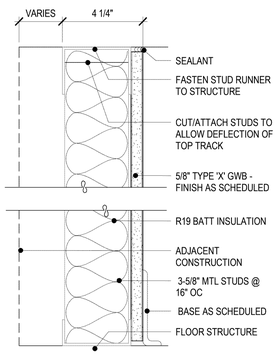


W1

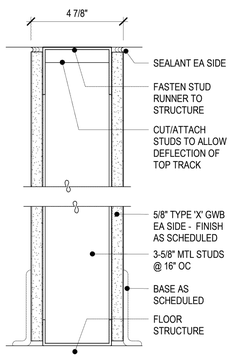
3 / A7.00 **Exterior Wall Types**
Scale: 3" = 1'-0"



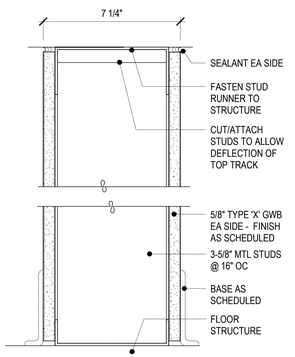
F1 F1B - TAPE & FINISH (E) GWB



F2 F2B - TAPE & FINISH (E) GWB

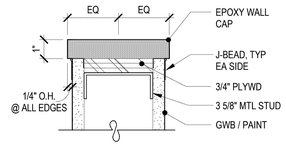


P1



P2

2 / A7.00 **Interior Partition Types**
Scale: 3" = 1'-0"



1 / A7.00 **Wall Cap @ Partial Height Wall**
Scale: 3" = 1'-0"

Interior Partition Notes

1. All interior partitions to be full-height, slab-to structure, UON.
2. Brace partitions, in concealed locations, as necessary to sustain imposed loads without excessive deflection.
3. All rated partitions shall comply with UL-tested and approved assemblies.
4. All penetrations (of pipes, conduit, ducts, beams, joists, bracing) through rated partitions shall be firestopped. All firestopping shall comply with UL-tested and approved assemblies.
5. For sound-retardant partitions, see Sound Retardant Partition Notes, also on this sheet.
6. All GWB shall be Type X, UON.

SSW ARCHITECTS
SCHREIBER STARLING WHITEHEAD
901 FIFTH AVE NO 3100
SEATTLE, WA 98164
206-682-8300
SSWARCHITECTS.COM

4199 REGISTERED ARCHITECT
KEITH JAMES SCHREIBER
STATE OF WASHINGTON

WASHINGTON STATE PATROL

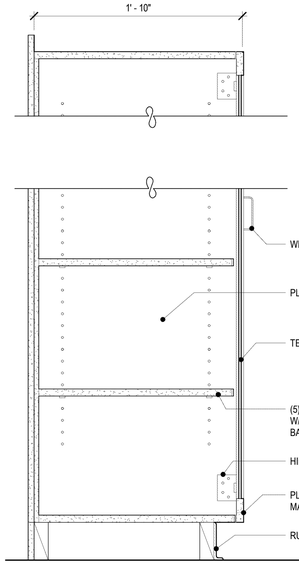
High Throughput DNA Lab T.I.

Bid Documents

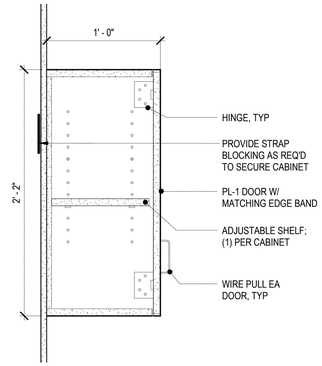
Details

Client Project	2019-093
SSW Architects Project No.:	18054
Date	09/16/19

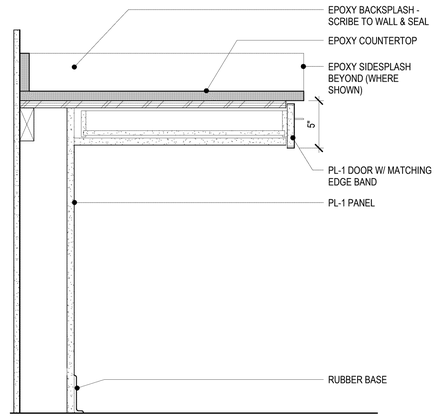
A7.00



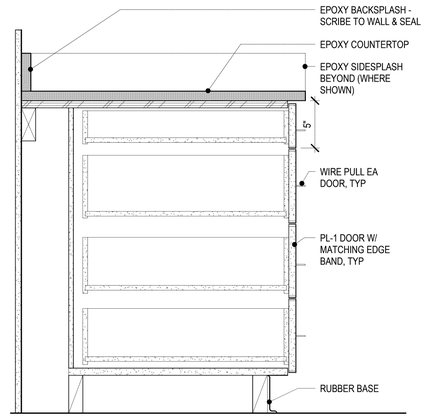
12 A7.01 **Casework - 408**
Scale: 1 1/2" = 1'-0"



11 A7.01 **Casework - 302**
Scale: 1 1/2" = 1'-0"



10 A7.01 **Casework - KOD**
Scale: 1 1/2" = 1'-0"

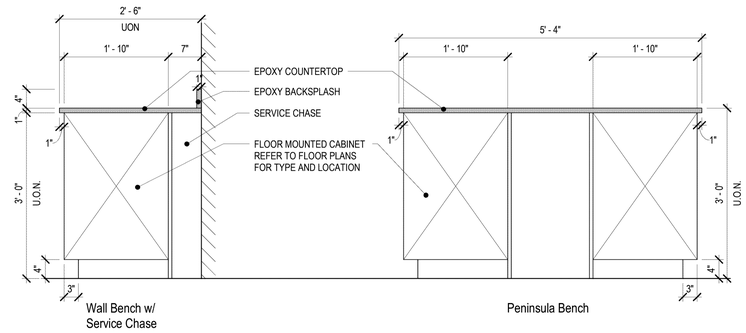


9 A7.01 **Casework - 254**
Scale: 1 1/2" = 1'-0"

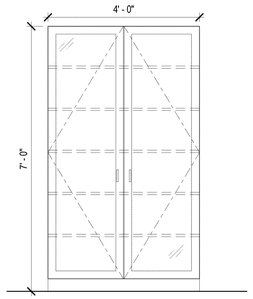
8 A7.01 **Casework - 212**
Scale: 1 1/2" = 1'-0"

7 A7.01 **Casework - 101 / 112**
Scale: 1 1/2" = 1'-0"

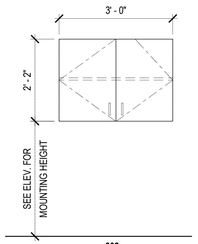
6 A7.01 **Casework - 154 C**
Scale: 1 1/2" = 1'-0"



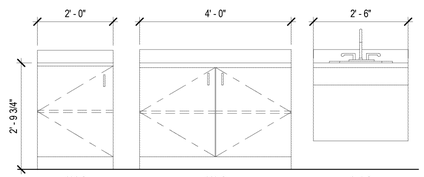
5 A7.01 **Typical Laboratory Bench Sections**
Scale: 3/4" = 1'-0"



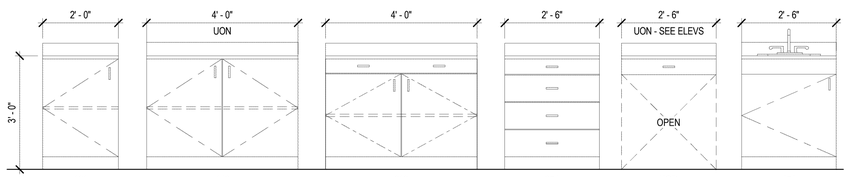
4 A7.01 **Tall Storage Cabinets**
Scale: 1/2" = 1'-0"



3 A7.01 **Wall Hung Cabinets**
Scale: 1/2" = 1'-0"



2 A7.01 **ADA Cabinets**
Scale: 1/2" = 1'-0"



1 A7.01 **Standing Height Cabinets**
Scale: 1/2" = 1'-0"

SSW ARCHITECTS
SCHREIBER STARLING WHITEHEAD
901 FIFTH AVE NO 3100
SEATTLE, WA 98164
206-682-8300
SSWARCHITECTS.COM

4199 REGISTERED ARCHITECT
KEITH JAMES SCHREIBER
STATE OF WASHINGTON

WASHINGTON STATE PATROL

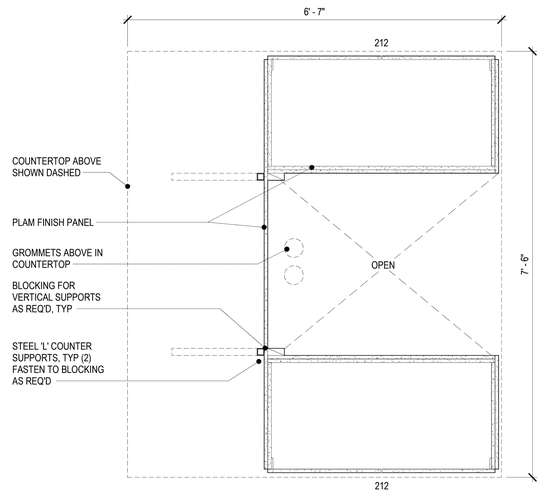
High Throughput DNA Lab T.I.

Bid Documents

Details

Client Project	2019-093
SSW Architects Project No.:	18054
Date	09/16/19

A7.01

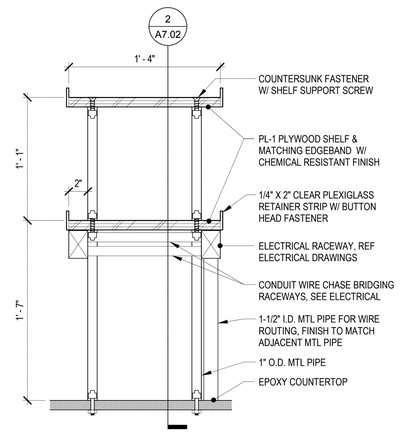


4 / A7.02 Island Workstation - Base Cabinet Plan

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

7 / A7.02 Casework - Interior Corner Detail Plan

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



3 / A7.02 Reagent Shelving - Section 2

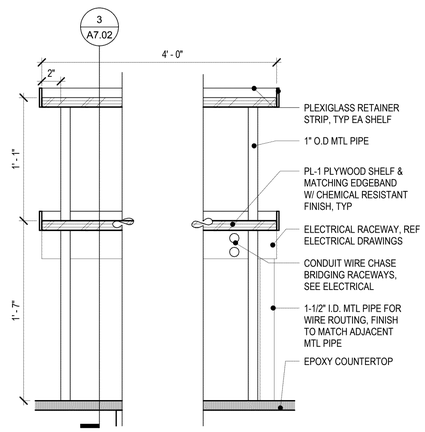
Scale: 1 1/2" = 1'-0"

6 / A7.02 Adjustable Wall Shelving - Section

Scale: 3" = 1'-0"

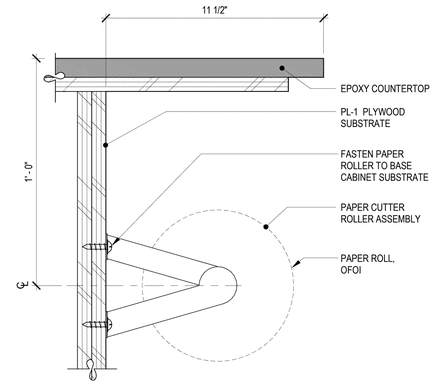
5 / A7.02 Adjustable Wall Shelving - Elevation

Scale: 1" = 1'-0"



2 / A7.02 Reagent Shelving - Section 1

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



1 / A7.02 Paper Roll Cutter Assmebly

Scale: 3" = 1'-0"

SSW ARCHITECTS

SCHREIBER STARLING WHITEHEAD

901 FIFTH AVE NO 3100
SEATTLE, WA 98164
206-682-8300
SSWARCHITECTS.COM

4199 REGISTERED ARCHITECT
KEITH JAMES SCHREIBER
STATE OF WASHINGTON

WASHINGTON STATE PATROL

High Throughput DNA Lab T.I.

Bid Documents

Details

Client Project	2019-093
SSW Architects Project No.:	18054
Date	09/16/19

A7.02

ELECTRICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

(E)	EXISTING
(N)	NEW
(R)	RELOCATE
(X)	DEMOLISH
A	AMPERES
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
C	CONDUIT, CLOSE, CONTROL
CAT	CATEGORY
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CU	COPPER
EM	EMERGENCY LIGHT
EMT	ELECTRICAL METALLIC TUBING
FMC	FLEXIBLE METAL CONDUIT
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
KVA	KILOVOLT AMPERES
KW	KILOWATT
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
RM	ROOM
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
W	WIRE, WHITE

Connections / Equipment

- WALL-MOUNTED JUNCTION BOX
- JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
- RELAY (UL 924)

General

- EXISTING WORK
- NEW WORK
- DETAIL NUMBER AND SHEET LOCATION

Lighting

- EXIT SIGN CEILING MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
- EXIT SIGN WALL MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
- SURFACE OR PENDANT MOUNTED 1' X 4' LUMINAIRE
- SURFACE OR PENDANT MOUNTED 1' X 4' LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT
- SURFACE OR PENDANT MOUNTED 6" X 8' LUMINAIRE

Miscellaneous

- #10 #12 #12 B-27,29,31. — BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
- BRANCH PANEL

Raceways

- CONDUIT CONCEALED IN WALL OR CEILING SPACE
- CONDUIT ROUTED BELOW FLOOR / GRADE

Switches and Receptacles

- DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS)
  - G = GROUND FAULT CIRCUIT INTERRUPTER
- DOUBLE DUPLEX RECEPTACLE. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS
- FLUSH POKE-THRU WITH DOUBLE DUPLEX RECEPTACLE
- CEILING MOUNTED OCCUPANCY SENSOR
  - P = PASSIVE INFRARED
  - D = DUAL TECHNOLOGY
  - U = ULTRASONIC, 360 DEG RANGE
  - H = ULTRASONIC, HALLWAY PATTERN
  - v (LOWERCASE) = VACANCY CONTROL DESIGNATION
- WALL MOUNTED OCCUPANCY SENSOR/SWITCH
  - S = PASSIVE INFRARED WITH INTEGRAL "OFF" SWITCH
  - T = DUAL RELAY PASSIVE INFRARED WITH TWO INTEGRAL "OFF" SWITCHES
  - D = PASSIVE INFRARED WITH INTEGRAL DIMMER TO OFF.
  - v (LOWERCASE) = VACANCY CONTROL DESIGNATION
- MULTIPLE CHANNEL SURFACE METAL RECEPTACLE RACEWAY WITH LOW VOLTAGE DIVIDERS, LENGTH AND RECEPTACLES AS INDICATED
- SINGLE POLE SWITCH
  - 2 = DOUBLE POLE SWITCH
  - 3 = THREE-WAY SWITCH
  - a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION
  - D = DIMMER

TECHNOLOGY SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Electronic Security

- CEILING MOUNTED MOTION DETECTION SENSOR WITH 3/4" C TO ACCESSIBLE CEILING AND CABLING TO NEAREST TELECOM ROOM
- EL — ELECTRIC LATCH CONNECTION WITH 3/4" C TO ACCESSIBLE CEILING AND CABLING TO NEAREST TELECOM ROOM
- ES — ELECTRIC STRIKE DOOR LOCKS WITH 3/4" C TO ACCESSIBLE CEILING AND CABLING TO NEAREST TELECOM ROOM
- REX — REQUEST TO EXIT DEVICE WITH 3/4" C TO ACCESSIBLE CEILING AND CABLING TO NEAREST TELECOM ROOM
- C — WALL MOUNTED ACCESS CONTROL CARD READER WITH 3/4" C TO ACCESSIBLE CEILING AND CABLING TO NEAREST TELECOM ROOM
- MD — WALL MOUNTED MOTION DETECTION SENSOR WITH 3/4" C TO ACCESSIBLE CEILING AND CABLING TO NEAREST TELECOM ROOM

Telecommunications

- STANDARD COMMUNICATIONS OUTLET WITH (2) CAT6 CABLE(S) TO NEAREST MDF/IDF AND 1"C. TO ACCESSIBLE CEILING SPACE.
- TELEPHONE OUTLET WITH (1) CAT6 CABLE TO NEAREST MDF/IDF AND 3/4" C. TO ACCESSIBLE CEILING SPACE.
- (X) — ALTERNATE COMMUNICATIONS OUTLET (X):
  - A = ABOVE COUNTER WITH (2) CAT6 CABLES TO NEAREST TELECOM ROOM AND 1"C. TO ACCESSIBLE CEILING SPACE.
  - W= LOCATION FOR FLUSH MOUNT WIRELESS ACCESS POINT OUTLET WITH (2) CAT6 CABLES TO NEAREST TELECOM ROOM AND 1"C. TO ACCESSIBLE CEILING SPACE, UON.
  - # = XX CAT 6 CABLES TO NEAREST TELECOM ROOM AND 1" C. TO ACCESSIBLE CEILING SPACE
- (XX) — OUTLET WITH 1" C. FLEX CONNECTION TO FURNITURE SYSTEM OR CASEWORK. "X" DENOTES QUANTITY OF CAT6 CABLES.
- POKE-THRU COMBINATION TELE/DATA OUTLET, WITH (4) CAT6 CABLE(S) TO NEAREST MDF/IDF, UON.

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	HOUSING	SHIELDING	MOUNTING	FINISH	UL/IP RATING	POWER SOURCE	LIGHT SOURCE(S)	INPUT WATTS	MFG/CATALOG #	NOTES
A-XX	PENDANT MOUNTED INEAR LED; 60% INDIRECT DISTRIBUTION; 40% DIRECT DISTRIBUTION	NOMINAL 3-INCH WIDE BY 5-INCH HIGH IN LENGTHS AS INDICATED ON DRAWINGS (XX) EXTRUDED ALUMINUM	INDIRECT LED DUST COVER; DIRECT ACRYLIC SATIN LENS (MEDIUM DIFFUSE)	SUSPENDED. MOUNT BOTTOM OF LUMINAIRE AT 8'-0" AFF; UNLESS OTHERWISE NOTED.	WHITE		0-10 VOLT, ELECTRONIC DIMMING DRIVER	NOMINAL 1216 LUMENS PER FOOT, 3500K, 90 CRI	12 WATTS PER FOOT	GAMMALUX GBEAM SERIES, FOCAL POINT, LUMENWERX OR APPROVED.	LUMINAIRE LENGTHS (XX) - 4', 6', 8' 10', 12', 16', 24', 26'.
B	SUSPENDED LED STRIP LIGHT	NOMINAL 3-INCH WIDE BY 4-INCH HIGH BY 48-INCH LONG STEEL.	ROUND LENSE	SUSPENDED. MOUNT BOTTOM OF LUMINAIRE AT 8'-0" AFF; UNLESS OTHERWISE NOTED.	WHITE		INTEGRAL ELECTRONIC DRIVER	NOMINAL 2344 WATTTS, 3500K	16 WATTS	METALUX SNLED, CREE, LITHONIA	
X1	UNIVERSAL MOUNTED THIN PROFILE EDGE LIT EXIT SIGN; SINGLE FACE	NOMINAL 14-INCH WIDE BY 8-INCH HIGH DIE CAST ALUMINUM AND ACRYLIC HOUSING	NA	CONTRACTOR TO VERIFY BACKBOX REQUIREMENTS DURING ROUGH-IN COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS	WHITE		INTEGRAL ELECTRONIC DRIVER	RED LED	NOMINAL 2 WATTS	LITHONIA LIGHTING LRP W	PROVIDE DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS

NOTES:

1. THIS LUMINAIRE SCHEDULE IS NOT COMPLETE WITHOUT A COPY OF THE PROJECT MANUAL CONTAINING THE ELECTRICAL SPECIFICATIONS.
2. DIMMING CONTROL PROTOCOL (0-10VDC, LINE VOLTAGE, DALI, ETC.) COMPATIBLE WITH LIGHTING CONTROL SYSTEM AS SPECIFIED AND SHOWN ON DRAWINGS.
3. PROVIDE +/- 12 INCH ADJUSTABILITY IN AIRCRAFT CABLE LENGTH WHERE USED.
4. COORDINATE ALL CEILING TYPES WITH LUMINAIRE LOCATIONS PRIOR TO ORDERING LUMINAIRES. COORDINATE INSTALLATION WITH REFLECTED CEILING PLAN.
5. SPECIFIED MANUFACTURERS ARE APPROVED TO SUBMIT BID. INCLUSION DOES NOT RELIEVE MANUFACTURER FROM SUPPLYING PRODUCT AS DESCRIBED.
6. PROVIDE SUBMITTALS THAT INCLUDE THE LUMINAIRE, LAMP AND DRIVER INFORMATION OF EACH LUMINAIRE, WITH APPLICABLE OPTIONS CLEARLY CHECKED OR HIGHLIGHTED. SUBMITTALS NOT INCLUDING THIS INFORMATION WILL BE RETURNED AS REJECTED BY THE ENGINEER OF RECORD.
7. REMOTE BALLASTS/DRIVERS: UL LISTED FOR THEIR APPLICATION. BALLASTS/DRIVERS MARKED AS UL RECOGNIZED COMPONENT BUT NOT UL LISTED ARE SUBJECT TO REMOVAL AND REPLACEMENT AT NO COST TO OWNER.

SHEET INDEX

E0.01	COVER SHEET - ELECTRICAL
E2.02	SECOND FLOOR PLAN - LIGHTING
E3.02	SECOND FLOOR PLAN - POWER & SIGNAL
E4.01	ONE-LINE DIAGRAM - ELECTRICAL
E5.01	DETAILS & SCHEDULES - ELECTRICAL

SSW ARCHITECTS
SCHREIBER STARLING WHITEHEAD
901 FIFTH AVE NO 3100
SEATTLE, WA 98164
206-682-8300
SSWARCHITECTS.COM

INTERFACE ENGINEERING
PROJECT 2019-0146
CONTACT Jeffrey Glanville
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

JAMES R. SATTERLEE — STATE OF WASHINGTON — 46689 — REGISTERED PROFESSIONAL ENGINEER

7/22/19

WASHINGTON STATE PATROL

DNA Lab Remodel

Bid Documents

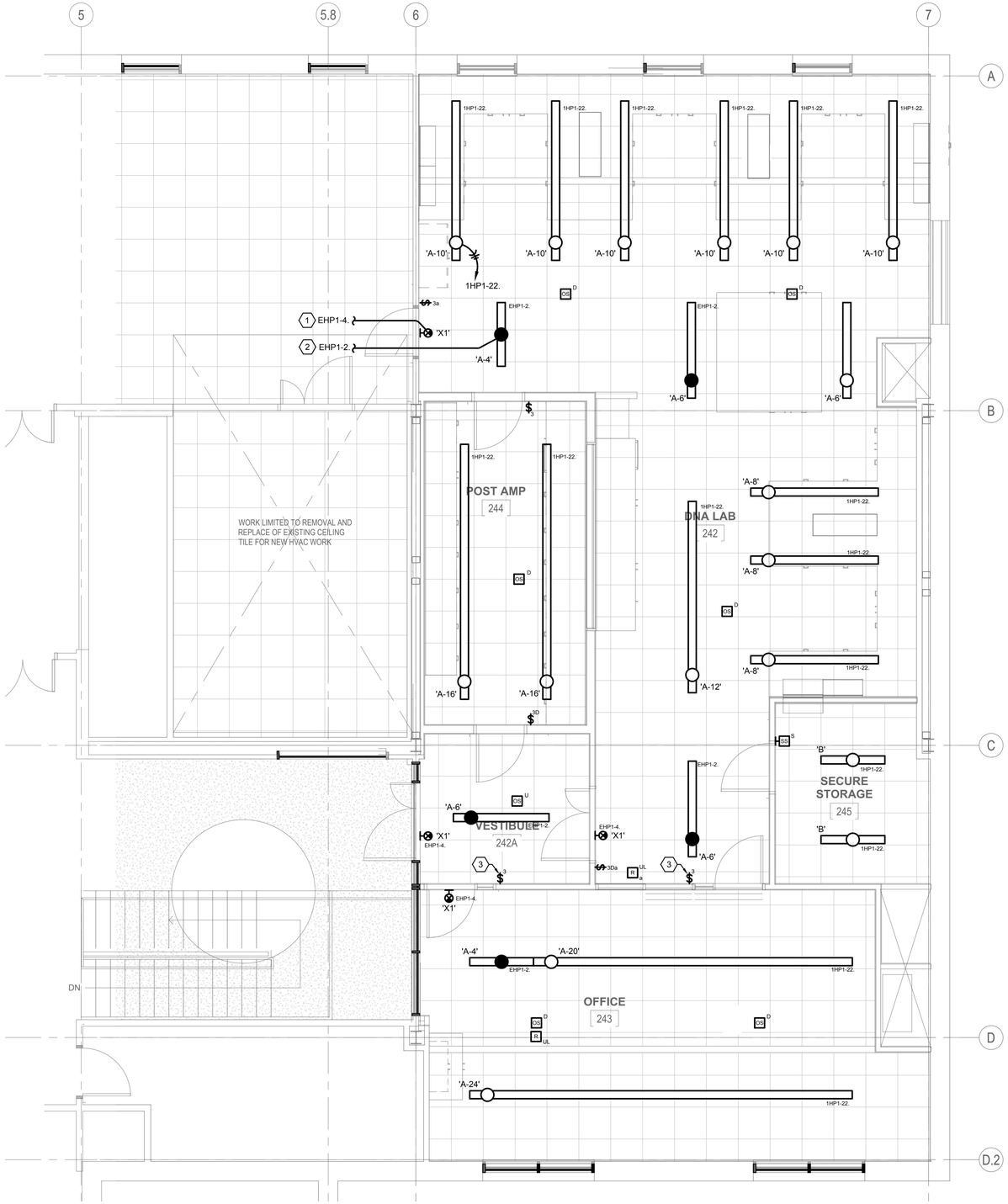
SYMBOLS LIST & GENERAL NOTES - ELECTRICAL

Client Project No.: 2019-093

SSW Architects Project No.: 18054

Date: 09/16/19

E0.01



1 E2.02 SECOND FLOOR PLAN - LIGHTING

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

GENERAL SHEET NOTES

A. EXISTING FLUORESCENT LUMINAIRES (TOTAL OF 10) IN SHELLED SPACE (AREA OF WORK) TO BE REMOVED. CONNECT ALL EXIT SIGNS TO UNSWITCHED LEG OF EMERGENCY CIRCUIT NOTED. EXIT SIGNS TO BE ILLUMINATED AT ALL TIMES.

SHEET KEYNOTES

1 INTERCEPT AND EXTEND EXISTING, UNSWITCHED EMERGENCY CIRCUIT SERVING SECOND FLOOR EXIT SIGNS. CONNECT ALL EXIT SIGNS TO THIS CIRCUIT. SIGNS TO BE ILLUMINATED AT ALL TIMES.

2 INTERCEPT AND EXTEND EXISTING SECOND FLOOR EGRESS LIGHTING CIRCUIT.

3 PROVIDE PERMANENT LABEL AT SWITCH TO READ: 'OFFICE LIGHTING'.

SSW ARCHITECTS
SCHREIBER STARLING WHITEHEAD
901 FIFTH AVE NO 3100
SEATTLE, WA 98164
206-682-8300
SSWARCHITECTS.COM

INTERFACE ENGINEERING
PROJECT 2019-0146
CONTACT Jeffrey Glanville
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

JAMES R. SATTERLEE
STATE OF WASHINGTON
46689
REGISTERED
PROFESSIONAL ENGINEER
7/22/19

WSP WASHINGTON STATE PATROL

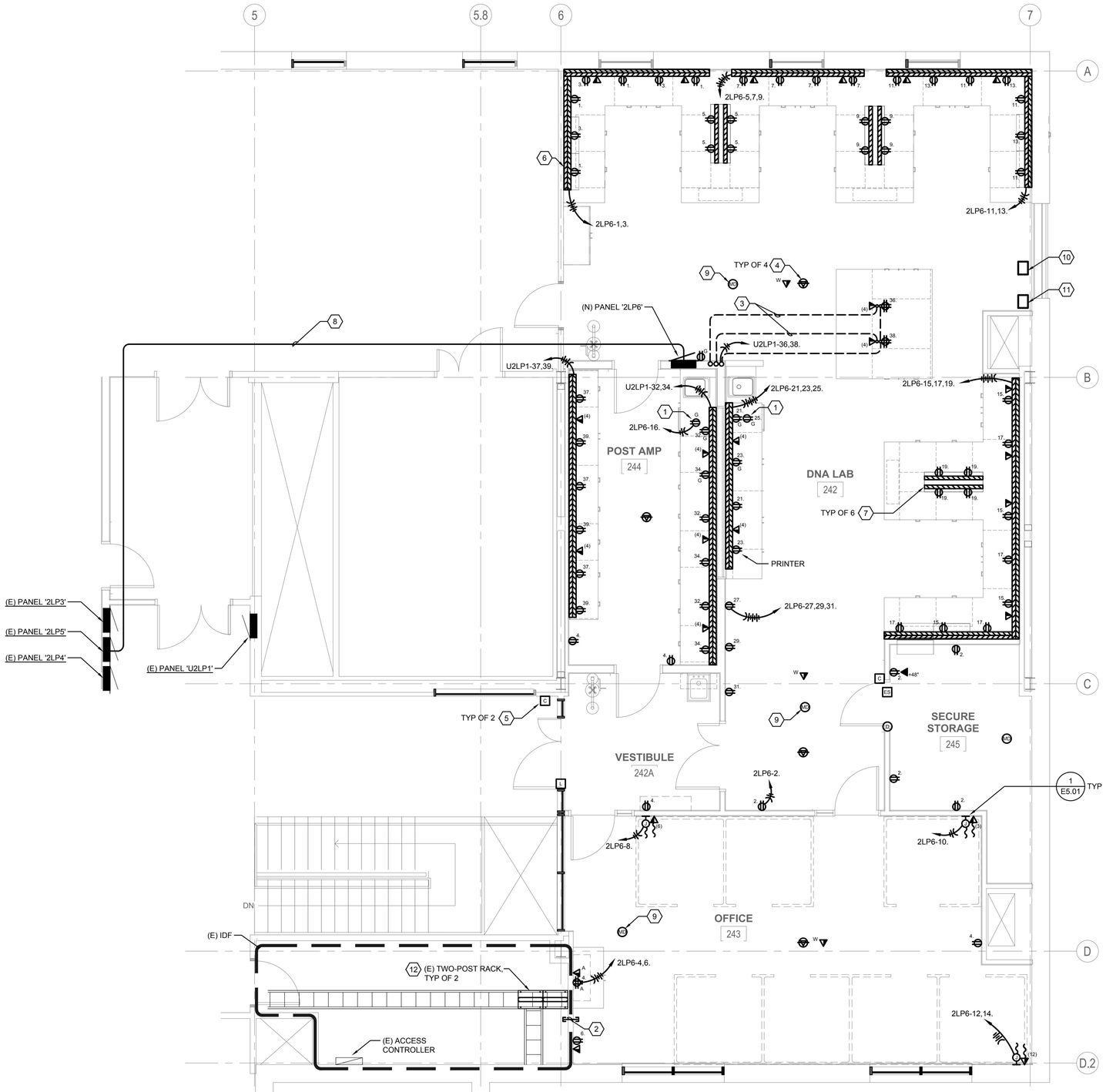
DNA Lab Remodel

Bid Documents

Second Floor Plan
- Lighting

Client Project No.: 2019-093
SSW Architects Project No.: 18054
Date: 09/16/19

E2.02



1 E3.02 SECOND FLOOR PLAN - POWER & SIGNAL

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

0 2' 4' 8'

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

SHEET KEYNOTES

1 PROVIDE DEDICATED RECEPTACLE BELOW COUNTER FOR CONNECTION TO DISHWASHER.

2 PROVIDE (2) 4" E-Z PATH FIRE-RATED PATHWAYS FOR DATA CABLING.

3 PROVIDE 1-1/4"C. IN ACCESSIBLE CEILING BELOW, TO FULL HEIGHT WALL AND INTO ACCESSIBLE CEILING SPACE FOR DATA CABLING.

4 PROVIDE PAGING SPEAKER MOUNTED FLUSH IN CEILING. SPEAKER TO MATCH EXISTING MANUFACTURER. PROVIDE LOW VOLTAGE WIRING TO EXISTING PAGING HEAD END UNIT AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.

5 PROVIDE CARD READER TO MATCH EXISTING BUILDING STANDARD (HID). PROVIDE LOW VOLTAGE WIRING TO EXISTING ACCESS CONTROLLER IN IDF AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.

6 PROVIDE DUAL CHANNEL RACEWAY MOUNTED ON WALL ABOVE LAB BENCH, TYPICAL. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS.

7 PROVIDE SINGLE CHANNEL RACEWAY, MOUNTED TO ABOVE COUNTER SHELVING UNIT. FEED RACEWAY VIA EMT CONDUIT, ROUTED THROUGH CASEWORK BELOW. COORDINATE WITH ARCHITECTURAL DETAIL 7/A7.01.

8 ROUTE FEEDER TO NEW FLUSH-MOUNTED PANELBOARD THROUGH ACCESSIBLE CEILING SPACE IN EXISTING VESTIBULE AND LAB AS SHOWN. SEE ONE-LINE DIAGRAM FOR FEEDER INFORMATION.

9 PROVIDE NEW MOTION DETECTOR TO MATCH EXISTING BUILDING STANDARD. TIE INTO EXISTING SECURITY SYSTEM IN EXISTING IDF.

10 NEW LOCATION OF EXISTING AHU #3 VARIABLE FREQUENCY DRIVE, RELOCATED FROM SOUTH OF ADJACENT SHAFT. INTERCEPT AND EXTEND EXISTING WIRING TO VFD AND FROM VFD TO MOTOR TO MAINTAIN CONTINUITY OF EXISTING EQUIPMENT CONNECTION. COORDINATE WITH DIVISION 23.

11 NEW LOCATION OF EF #5 VARIABLE FREQUENCY DRIVE, RELOCATED FROM SOUTH OF ADJACENT SHAFT. INTERCEPT AND EXTEND EXISTING WIRING TO VFD AND FROM VFD TO MOTOR TO MAINTAIN CONTINUITY OF EXISTING EQUIPMENT CONNECTION. COORDINATE WITH DIVISION 23.

12 PROVIDE NEW PATCH PANEL IN EXISTING RACK TO ACCOMMODATE NEW CABLING. PATCH PANEL TO MATCH EXISTING, SEE SPECIFICATION 25 17 00.

SSW ARCHITECTS
SCHREIBER STARLING WHITEHEAD
901 FIFTH AVE NO 3100
SEATTLE, WA 98164
206-682-8300
SSWARCHITECTS.COM

INTERFACE ENGINEERING
PROJECT 2019-0146
CONTACT Jeffrey Glanville
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

JAMES R. SATTERM — STATE OF WASHINGTON — 46689 — REGISTERED PROFESSIONAL ENGINEER

7/24/19

WASHINGTON STATE PATROL

DNA Lab Remodel

Bid Documents

SECOND FLOOR PLAN - POWER & SIGNAL

Client Project No.: 2019-093
SSW Architects Project No.: 18054
Date: 09/16/19

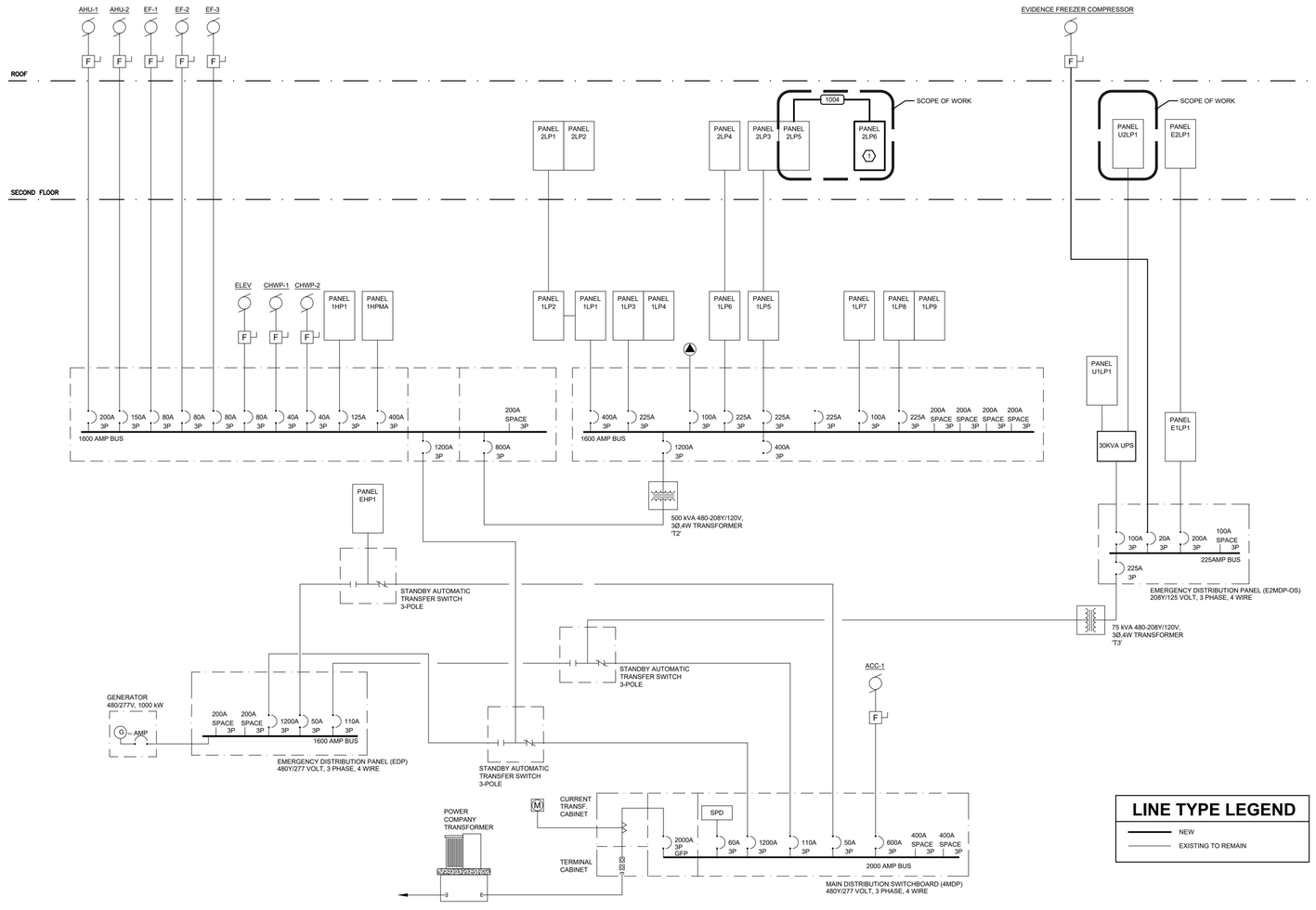
E3.02

SHEET KEYNOTES

1 NEW PANELBOARD TO MATCH AIC RATING OF EXISTING PANEL '2LP5'

FEEDER SCHEDULE

1004 4 #2 CU, 1 #8 CU GND., IN 1-1/4" C.



1 ONE-LINE DISTRIBUTION DIAGRAM - ELECTRICAL

NO SCALE

SSW ARCHITECTS
SCHREIBER STARLING WHITEHEAD
901 FIFTH AVE NO 3100
SEATTLE, WA 98164
206-682-8300
SSWARCHITECTS.COM

INTERFACE ENGINEERING
PROJECT 2019-0146
CONTACT Jeffrey Glanville
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

JAMES R. SATTEM — STATE OF WASHINGTON — 46689 — REGISTERED PROFESSIONAL ENGINEER

7/22/19

WASHINGTON STATE PATROL

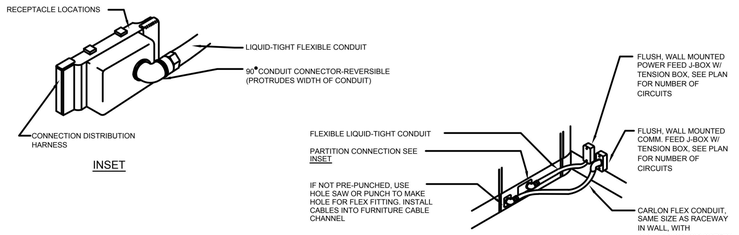
DNA Lab Remodel

Bid Documents

ONE-LINE DIAGRAM - ELECTRICAL

Client Project No.: 2019-093
SSW Architects Project No.: 18054
Date: 09/16/19

E4.01



1 SYSTEM FURNITURE CONNECTION

NO SCALE

2019-0146 WSP

Panel 'U2LP1'

120/208V, 3 Ph., 4 W.; 125A Bus with 125A Main Circuit Breaker Flush Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	THERMACYLER 238			20/1		A		20/1			DED. RECEPT. 227	2
3	THERMACYLER 238			20/1		B		20/1			DED. RECEPT. 227	4
5	THERMACYLER 238			20/1		C		20/1			DED. RECEPT. 227	6
7	THERMACYLER 238			20/1		A		20/1			DED. RECEPT. 227	8
9	THERMACYLER 238			20/1		B		20/1			DED. RECEPT. 227	10
11	THERMACYLER 238			20/1		C		20/1			DED. RECEPT. 227	12
13	DED. RECEPT. 238			20/1		A		30/2			DED. RECEPT. 238	14
15	DED. RECEPT. 238			20/1		B		-			---	16
17	DED. RECEPT. 238			30/2		C		30/2			DED. RECEPT. 238	18
19	---			-		A		-			---	20
21	DED. RECEPT. 238			30/2		B		20/1			DED. RECEPT. 238	22
23	---			-		C		20/1			DED. RECEPT. 238	24
25	DED. RECEPT. 238			20/1		A		20/1			DED. RECEPT. 238	26
27	DED. RECEPT. 238			20/1		B		20/1			DED. RECEPT. 238	28
29	DED. RECEPT. 238			20/1		C		20/1			DED. RECEPT. 230	30
31	DED. RECEPT. 238			20/1		A	1	20/1	540	R	R - DNA LAB POST AMP	32
33	DED. RECEPT. 238			30/2		B	1	20/1	540	R	R - DNA LAB POST AMP	34
35	---			-		C	1	20/1	1,400	R	R - DNA LAB ROBOT TABLE	36
37	R - DNA LAB POST AMP	540	R	20/1	1	A					SPACE	38
39	R - DNA LAB POST AMP	540	R	20/1	1	B					SPACE	40
41	SPACE					C					SPACE	42

Total Connected Load:	Ph. A	1,080 VA	9 Amps	Panel Connected Load:	3.6 KVA	9.9 Amps	
Total Connected Load:	Ph. B	1,080 VA	9 Amps	Sub-Fed Connected Load:	0.0 KVA	0.0 Amps	
Total Connected Load:	Ph. C	1,400 VA	12 Amps	**Total Demand Load:**	3.6 **KVA**	9.9 **Amps**	

Notes:
1. CONNECT NEW LOAD TO EXISTING SPARE BREAKER.
2.
3.
4.
5.

Accessories:

2019-0146 WSP

Panel '2LP5'

120/208V, 3 Ph., 4 W.; 225A Bus with Main Lug Only Flush Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	RECEPT 238	720	R	20/1		A		20/1	540	R	RECEPT 238	2
3	DED. RECEPT 238	800	G	20/1		B		20/1	540	R	RECEPT 238	4
5	DED. RECEPT 238	800	G	20/1		C		20/1	1,000	G	DED. RECEPT 238	6
7	RECEPT 238	540	R	20/1		A		20/1	1,000	G	GLASSWASHER 238	8
9	RECEPT 238	540	R	20/1		B		20/1	500	G	DED. RECEPT 238	10
11	RECEPT 238	540	R	20/1		C		20/1	540	R	RECEPT 238	12
13	RECEPT HALL 225	720	R	20/1		A		20/1			SPARE	14
15	SECURITY IDF 202	500	C	20/1		B		20/1	720	R	RECEPT HALL 225	16
17	FIRE ALARM IDF 202	500	C	20/1		C		20/1			SPARE	18
19	SPARE			20/1		A		20/1			SPARE	20
21	SPARE			20/1		B		20/1			SPARE	22
23	SPARE			20/1		C		20/1			SPARE	24
25	SPARE			20/1		A		20/1			SPARE	26
27	SPARE			20/1		B		20/1			SPARE	28
29	SPARE			20/1		C		20/1			SPARE	30
31	SPARE			20/1		A		20/1			SPARE	32
33	SPARE			20/1		B		20/1			SPARE	34
35	SPARE			20/1		C		20/1			SPARE	36
37	SPACE					A	1	100/3	8,120	S	PANEL 2LP6	38
39	SPACE					B		-	5,780	S	---	40
41	SPACE					C		-	5,600	S	---	42

Total Connected Load:	Ph. A	11,640 VA	97 Amps	Panel Connected Load:	10.5 KVA	29.1 Amps	
Total Connected Load:	Ph. B	9,380 VA	78 Amps	Sub-Fed Connected Load:	19.5 KVA	54.1 Amps	
Total Connected Load:	Ph. C	8,980 VA	75 Amps	**Total Demand Load:**	Refer to 2LP3		

Notes:
1. PROVIDE NEW 100/3P BREAKER IN EXISTING BUSSED SPACE. BREAKER TO MATCH EXISTING AIC RATING AND MANUFACTURER.
2.
3.
4.
5.

2019-0146 WSP

Panel '2LP3'

120/208V, 3 Ph., 4 W.; 225A Bus with 225A Main Circuit Breaker Flush Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	RECEPT 239	720	R	20/1		A		20/1	720	R	RECEPT 239	2
3	DED. RECEPT PURIF 235	360	R	20/1		B		20/1	720	R	RECEPT 239	4
5	RECEPT 239	720	R	20/1		C		20/1	720	R	RECEPT 239	6
7	RECEPT 239	540	R	20/1		A		20/1	540	R	RECEPT 239	8
9	RECEPT 239	540	R	20/1		B		20/1	540	R	RECEPT 239	10
11	RECEPT 239	540	R	20/1		C		20/1	540	R	RECEPT 239	12
13	RECEPT 239	540	R	20/1		A		20/1	500	R	DED. RECEPT BSC 233	14
15	DED. RECEPT. 235	500	G	20/2		B		20/1	500	R	DED. RECEPT BSC 233	16
17	---	500	G	-		C		20/1	500	G	FUME HOOD 235	18
19	RECEPT 235	540	R	20/1		A		20/1	540	R	RECEPT 233	20
21	RECEPT 235	540	R	20/1		B		20/1	540	R	RECEPT 233	22
23	RECEPT 235	540	R	20/1		C		20/1	1,000	G	DED. RECEPT. REFRIGERATOR 233	24
25	DED. RECEPT 235	180	R	20/1		A		20/1	1,000	G	DED. RECEPT. REFRIGERATOR 233	26
27	RECEPT 235	720	R	20/1		B		20/1			SPARE	28
29	DED. RECEPT 235	180	R	20/1		C		20/1			SPARE	30
31	DISHWASHER 235	1,000	G	20/1		A					SPACE	32
33	SPARE			20/1		B					SPACE	34
35	SPARE			20/1		C					SPACE	36
37	SPARE			30/3		A		20/1			SPARE	38
39	---			-		B		20/1			SPARE	40
41	---			-		C		20/1			SPARE	42

Total Connected Load:	Ph. A	18,460 VA	154 Amps	Panel Connected Load:	17.0 KVA	47.2 Amps	
Total Connected Load:	Ph. B	14,340 VA	119 Amps	Sub-Fed Connected Load:	30.0 KVA	83.3 Amps	
Total Connected Load:	Ph. C	14,220 VA	118 Amps	**Total Demand Load:**	36.6 **KVA**	101.5 **Amps**	

Notes:
1.
2.
3.
4.
5.

Accessories:
Provide Feed-Thru Lugs

2019-0146 WSP

Panel '2LP6'

120/208V, 3 Ph., 4 W.; 100A Bus with Main Lug Only Flush Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	R - DNA LAB	900	R	20/1		A		20/1	900	R	R - DNA LAB, DNA VAULT	2
3	R - DNA LAB	720	R	20/1		B		20/1	720	R	R - DNA OFFICE	4
5	R - DNA LAB	720	R	20/1		C		20/1	1,000	G	DNA OFFICE COPIER	6
7	R - DNA LAB	720	R	20/1		A		20/1	1,080	R	R - DNA OFFICE SYSTEM FURNITURE	8
9	R - DNA LAB	720	R	20/1		B		20/1	540	R	R - DNA OFFICE SYSTEM FURNITURE	10
11	R - DNA LAB	720	R	20/1		C		20/1	1,080	R	R - DNA OFFICE SYSTEM FURNITURE	12
13	R - DNA LAB	720	R	20/1		A		20/1	1,080	R	R - DNA OFFICE SYSTEM FURNITURE	14
15	R - DNA LAB	720	R	20/1		B		20/1	1,000	G	R - DNA POST AMP DISHWASHER	16
17	R - DNA LAB	720	R	20/1		C		20/1			SPARE	18
19	R - DNA LAB	720	R	20/1		A		20/1			SPARE	20
21	R - DNA LAB	360	R	20/1		B		20/1			SPARE	22
23	R - DNA LAB	360	R	20/1		C		20/1			SPARE	24
25	DNA LAB DISHWASHER	1,000	G	20/1		A		20/1			SPARE	26
27	DNA LAB REFRIGERATOR	1,000	G	20/1		B		20/1			SPARE	28
29	DNA LAB REFRIGERATOR	1,000	G	20/1		C		20/1			SPARE	30
31	DNA LAB REFRIGERATOR	1,000	G	20/1		A		20/1			SPARE	32
33	SPARE			20/1		B		20/1			SPACE	34
35	SPARE			20/1		C		20/1			SPARE	36
37	SPACE					A					SPACE	38
39	SPACE					B					SPACE	40
41	SPACE					C					SPACE	42

Total Connected Load:	Ph. A	8,120 VA	68 Amps	Panel Connected Load:	19.5 KVA	54.1 Amps	
Total Connected Load:	Ph. B	5,780 VA	48 Amps	Sub-Fed Connected Load:	0.0 KVA	0.0 Amps	
Total Connected Load:	Ph. C	5,600 VA	47 Amps	**Total Demand Load:**	17.8 **KVA**	49.3 **Amps**	

Notes:
1.
2.
3.
4.
5.

Accessories:

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	HOUSING	SHIELDING	MOUNTING	FINISH	UL/IP RATING	POWER SOURCE	LIGHT SOURCE(S)	INPUT WATTS	MFG/CATALOG #	NOTES
A-XX	PENDANT MOUNTED INEAR LED; 60% INDIRECT DISTRIBUTION; 40% DIRECT DISTRIBUTION	NOMINAL 3-INCH WIDE BY 5-INCH HIGH IN LENGTHS AS INDICATED ON DRAWINGS (XX) EXTRUDED ALUMINUM	INDIRECT LED DUST COVER; DIRECT ACRYLIC SATIN LENS (MEDIUM DIFFUSE)	SUSPENDED. MOUNT BOTTOM OF LUMINAIRE AT 8'-0" AFF; UNLESS OTHERWISE NOTED.	WHITE		0-10 VOLT, ELECTRONIC DIMMING DRIVER	NOMINAL 1216 LUMENS PER FOOT, 3500K, 90 CRI	12 WATTS PER FOOT	GAMMALUX GBEAM SERIES, FOCAL POINT, LUMENWERX OR APPROVED.	LUMINAIRE LENGTHS (XX) - 4', 6', 8' 10', 12', 16', 24', 28'.
B	SUSPENDED LED STRIP LIGHT	NOMINAL 3-INCH WIDE BY 4-INCH HIGH BY 48-INCH LONG STEEL.	ROUND LENSE	SUSPENDED. MOUNT BOTTOM OF LUMINAIRE AT 8'-0" AFF; UNLESS OTHERWISE NOTED.	WHITE		INTEGRAL ELECTRONIC DRIVER	NOMINAL 2344 WATTTS, 3500K	16 WATTS	METALUX SNLED, CREE, LITHONIA	
X1	UNIVERSAL MOUNTED THIN PROFILE EDGE LIT EXIT SIGN; SINGLE FACE	NOMINAL 14-INCH WIDE BY 8-INCH HIGH DIE CAST ALUMINUM AND ACRYLIC HOUSING	NA	CONTRACTOR TO VERIFY BACKBOX REQUIREMENTS DURING ROUGH-IN. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS	WHITE		INTEGRAL ELECTRONIC DRIVER	RED LED	NOMINAL 2 WATTS	LITHONIA LIGHTING LRP W	PROVIDE DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS

NOTES:
1 THIS LUMINAIRE SCHEDULE IS NOT COMPLETE WITHOUT A COPY OF THE PROJECT MANUAL CONTAINING THE ELECTRICAL SPECIFICATIONS.
2 DIMMING CONTROL PROTOCOL (0-10VDC, LINE VOLTAGE, DALI, ETC.) COMPATIBLE WITH LIGHTING CONTROL SYSTEM AS SPECIFIED AND SHOWN ON DRAWINGS.
3 PROVIDE +/- 12 INCH ADJUSTABILITY IN AIRCRAFT CABLE LENGTH WHERE USED.
4 COORDINATE ALL CEILING TYPES WITH LUMINAIRE LOCATIONS PRIOR TO ORDERING LUMINAIRES. COORDINATE INSTALLATION WITH REFLECTED CEILING PLAN.
5 SPECIFIED MANUFACTURERS ARE APPROVED TO SUBMIT BID. INCLUSION DOES NOT RELIEVE MANUFACTURER FROM SUPPLYING PRODUCT AS DESCRIBED.
6 PROVIDE SUBMITTALS THAT INCLUDE THE LUMINAIRE, LAMP AND DRIVER INFORMATION OF EACH LUMINAIRE, WITH APPLICABLE OPTIONS CLEARLY CHECKED OR HIGHLIGHTED. SUBMITTALS NOT INCLUDING THIS INFORMATION WILL BE RETURNED AS REJECTED BY THE ENGINEER OF RECORD.
7 REMOTE BALLASTS/DRIVERS: UL LISTED FOR THEIR APPLICATION. BALLASTS/DRIVERS MARKED AS UL RECOGNIZED COMPONENT BUT NOT UL LISTED ARE SUBJECT TO REMOVAL AND REPLACEMENT AT NO COST TO OWNER.

SSW ARCHITECTS
SCHREIBER STARLING WHITEHEAD
901 FIFTH AVE NO 3100
SEATTLE, WA 98164
206-682-8300
SSWARCHITECTS.COM

INTERFACE ENGINEERING
PROJECT 2019-0146
CONTACT Jeffrey Glanville
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

JAMES R. SATTERLEE — STATE OF WASHINGTON — 46689 — REGISTERED PROFESSIONAL ENGINEER
7/22/19

WASHINGTON STATE PATROL

DNA Lab Remodel

Bid Documents

DETAILS & SCHEDULES - ELECTRICAL

Client Project No.: 2019-093
SSW Architects Project No.: 18054
Date: 09/16/19

E5.01

MECHANICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

A/C	AIR CONDITION(ED)
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BDD	BACKDRAFT DAMPER
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
CD	CEILING DIFFUSER
CD	CONDENSATE DRAIN
CONT.	CONTINUATION
COP	COEFFICIENT OF PERFORMANCE
CU	CONDENSING UNIT
CV	CHECK VALVE
CW	COLD WATER
D	DROP
DB	DECIBEL
DB	DRY BULB
DIA	DIAMETER
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATING
EF	EXHAUST FAN
EFF	EFFICIENT
ELECT	ELECTRICAL
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
F	FAHRENHEIT
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FT	FEET
GAL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HD	HEAD
HP	HORSEPOWER
HTG	HEATING
HTR	HEATER
HWC	HOT WATER COIL
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCHES
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LBS.	POUNDS
LH	LATENT HEAT
MA	MIXED AIR
MAX	MAXIMUM
MBH	THOUSAND BTU'S PER HOUR
MD	MOTORIZED DAMPER
MIN	MINIMUM
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO.	NUMBER
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER
PD	PRESSURE DROP
PH	PHASE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
QTY	QUANTITY
R	RISE
RA	RETURN AIR
RET	RETURN
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATING
SF	SQUARE FEET
SH	SENSIBLE HEAT
SOV	SHUT OFF VALVE
SP	STATIC PRESSURE
T, TEMP	TEMPERATURE
TD	TEMPERATURE DIFFERENCE
TH	TOTAL HEAT
TP	TOTAL PRESSURE
V	VOLT
W/	WITH
W	WATT
WB	WET BULB
WC	WATER COLUMN

Dampers

- FIRE DAMPER
- FIRE/SMOKE DAMPER
- MOTORIZED DAMPER
- SMOKE DAMPER
- VOLUME DAMPER

Diffusers and Grilles

- EXHAUST AIR
- RETURN AIR
- SUPPLY AIR
- DIFFUSER OR GRILLE IDENTIFICATION (12x12 / 100, CD-1)

Ductwork Fittings

- ACOUSTICALLY LINED DUCT (SIZES SHOWN ARE NET INSIDE)
- BELLMOUTH
- CONCENTRIC SQUARE TO ROUND
- CONCENTRIC TRANSITION, RECTANGULAR OR ROUND
- MITERED ELBOW WITH TURNING VANES
- RADIUSED ELBOW
- ECCENTRIC TRANSITION, RECTANGULAR OR ROUND
- FLEXIBLE CONNECTION
- NON-SYMMETRICAL WYE
- RECTANGULAR DUCT DROP
- RECTANGULAR DUCT RISER
- RECTANGULAR MAIN WITH RECTANGULAR BRANCH
- RECTANGULAR MAIN WITH ROUND BRANCH
- RECTANGULAR OFFSET LESS THAN 15°
- RECTANGULAR OFFSET MORE THAN 15°
- ROUND DUCT DROP
- ROUND DUCT RISER
- ROUND DUCT WITH ROUND BRANCH
- ROUND WYE
- SYMMETRICAL WYE

Equipment

- CHILLER, AIR COOLED
- CHILLER, WATER COOLED
- COOLING TOWER

General

- 30X16 — RECTANGULAR DUCT SIZING
- 30"Ø — ROUND DUCT SIZING

Piping Fittings, Appurtenances and Equipment

- AIR SEPARATOR
- AUTOMATIC AIR VENT
- BACKFLOW PREVENTER
- CAP
- CONTINUATION
- EXPANSION JOINT
- EXPANSION LOOP
- EXPANSION TANK
- FLOW SWITCH
- HEAT EXCHANGER
- HOSE BIBB
- MANUAL AIR VENT
- PIPE DROP
- PIPE RISE
- PIPE TO DRAIN
- PRESSURE GAUGE WITH COCK
- PRESSURE RELIEF VALVE
- PRESSURE SENSOR
- SHOCK ABSORBER
- T&P RELIEF VALVE WITH PIPE TO DRAIN
- TEE DOWN ON PIPE
- TEE UP ON PIPE
- TEMPERATURE SENSOR
- TEST PORT (PETE'S PLUG OR EQUAL)
- THERMOMETER
- VENT TO ATMOSPHERE
- WATER METER

Piping Systems

- RL — REFRIGERANT LIQUID
- RS — REFRIGERANT SUCTION

Piping Valves

- CHECK VALVE
- GLOBE VALVE
- QUARTER TURN VALVE
- VALVE, GENERAL

AIR VALVE SCHEDULE

SYMBOL	AREA SERVED	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	INLET SIZE (IN)	COOLING AIRFLOW MAX CFM	COOLING AIRFLOW MIN CFM	HOT WATER HEATING COIL HTG CFM	HOT WATER HEATING COIL MIN CAP (MBH)	HOT WATER HEATING COIL WATER FLOW (GPM)	HOT WATER HEATING COIL EWT (°F)	HOT WATER HEATING COIL LWT (°F)	HOT WATER HEATING COIL EAT (°F)	HOT WATER HEATING COIL LAT (°F)	NOTES
SAV-213	OFFICE	SIEMENS	SVV	10	735	150	445	16821	1.7	140	120	55	90	
SAV-214	POST AMP	SIEMENS	SVV	8	325	325	325	5265	0.5	140	120	55	70	
SAV-215	DNA LAB N	SIEMENS	SVV	8	615	125	370	13986	1.4	140	120	55	90	
SAV-216	DNA LAB S	SIEMENS	SVV	12	1080	195	580	9396	0.9	140	120	55	70	
EAV-216	POST AMP	SIEMENS	SVV	8	425	425	-	-	-	-	-	-	-	
EAV-217	DNA LAB N	SIEMENS	SVV	8	615	125	-	-	-	-	-	-	-	
EAV-218	OFFICE	SIEMENS	SVV	10	735	150	-	-	-	-	-	-	-	
EAV-219	DNA LAB S	SIEMENS	SVV	12	1080	195	-	-	-	-	-	-	-	

NOTES:

DIFFUSER, REGISTER AND GRILLE SCHEDULE

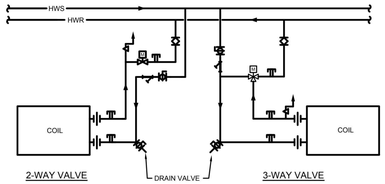
SYMBOL	TYPE	FACE	FRAME	DAMPER	FINISH	BASIS OF DESIGN	NOTES
CD-1	CEILING SUPPLY DIFFUSER	PERFORATED	LAY IN	NONE	WHITE	TITUS PCS	
CEG-1	CEILING EXHAUST DIFFUSER	PERFORATED	LAY IN	NONE	WHITE	TITUS PAR	

NOTES:

GENERAL DETAIL NOTES

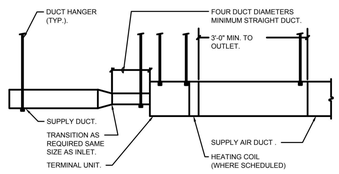
A. TWO-WAY VALVES TYPICAL, USE THREE-WAY VALVES WHERE NOTED.

B. TYPICAL FOR FAN COIL UNITS, REHEAT COILS, UNIT HEATERS, AND CONVECTORS.



1 HEATING COIL PIPING

NO SCALE



2 TERMINAL UNIT

NO SCALE MHVEQ03A.dwg

SHEET INDEX

M0.1	COVER SHEET - MECHANICAL
M2.02	SECOND FLOOR - DEMO - MECHANICAL
M3.02	SECOND FLOOR - MECHANICAL

SSW ARCHITECTS
SCHREIBER STARLING WHITEHEAD
901 FIFTH AVE NO 3100
SEATTLE, WA 98164
206-682-8300
SSWARCHITECTS.COM

INTERFACE ENGINEERING
PROJECT 2019-0146
CONTACT Rick Silenzi
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

ANDREW W. FRICHETTE — STATE OF WASHINGTON — 31,577 — REGISTERED PROFESSIONAL ENGINEER
7/22/19

WASHINGTON STATE PATROL

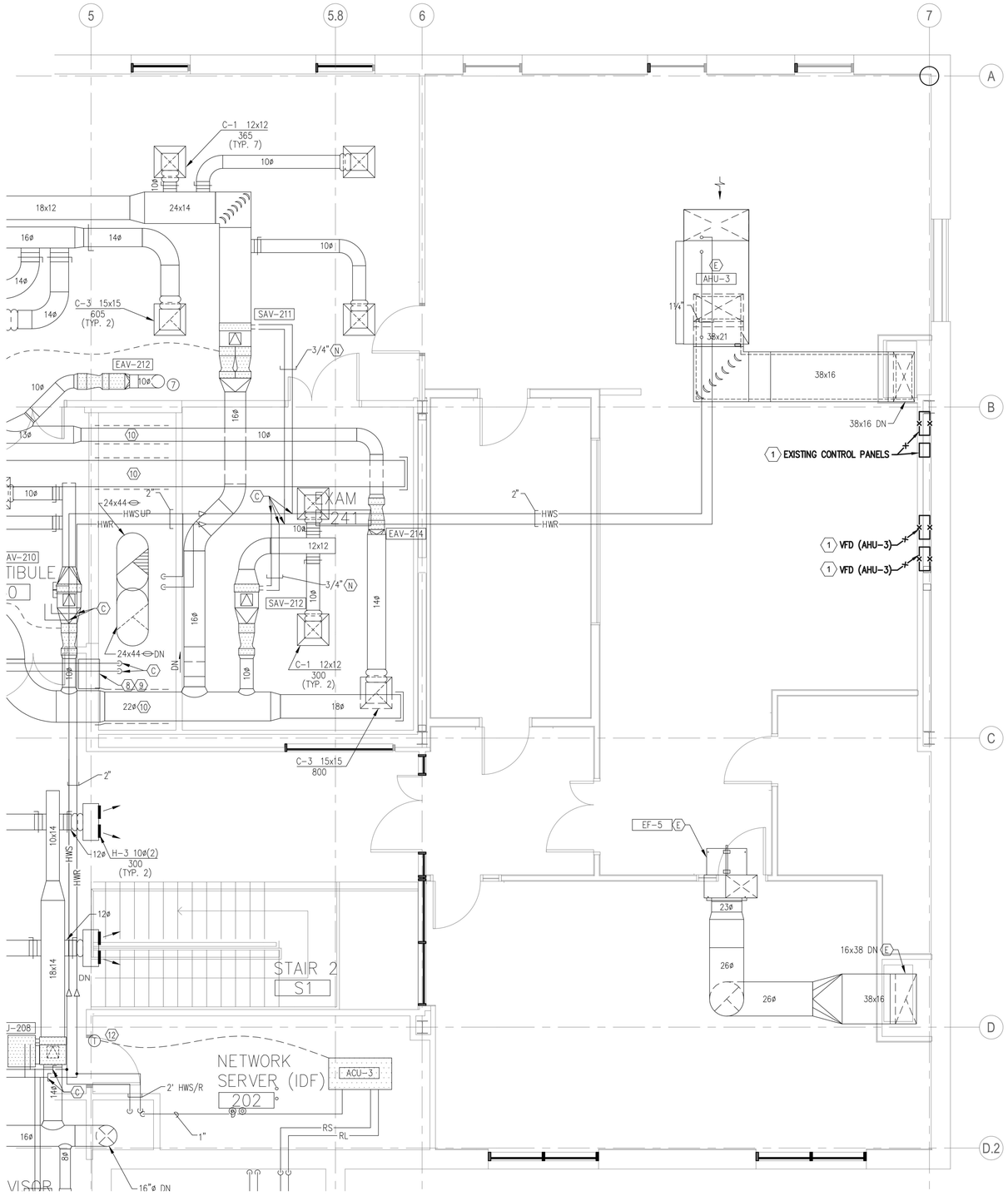
DNA Lab Remodel

Bid Documents

SYMBOLS LIST & GENERAL NOTES - MECHANICAL

Client Project No.: 2019-093
SSW Architects Project No.: 18054
Date: 09/16/19

M0.1



SHEET KEYNOTES

1 EXISTING CONTROL PANELS AND VFD'S TO BE RELOCATED. SEE M3.02 FOR NEW LOCATION.

N

1 / M2.02 Second Floor - DEMO - MECHANICAL

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

0 2' 4' 8'

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

SSW ARCHITECTS

SCHREIBER STARLING WHITEHEAD

901 FIFTH AVE NO 3100
SEATTLE, WA 98164
206-682-8300
SSWARCHITECTS.COM

INTERFACE ENGINEERING

PROJECT 2019-0146
CONTACT Rick Silenzi
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

ANDREW W. FRICHTL — STATE OF WASHINGTON — 31,577 — REGISTERED PROFESSIONAL ENGINEER

7/22/19

WASHINGTON STATE PATROL

DNA Lab Remodel

Bid Documents

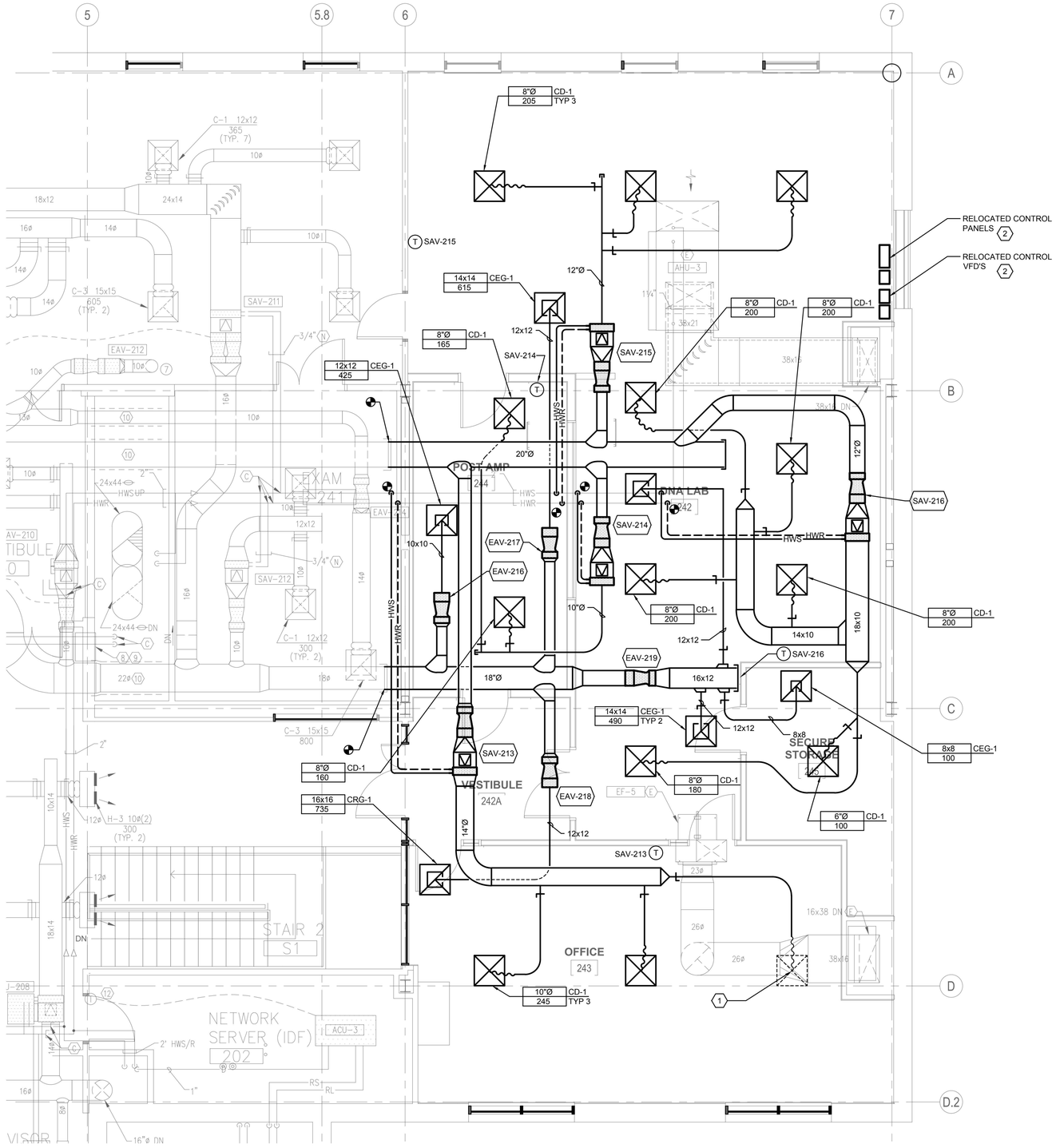
SECOND FLOOR DEMO - MECHANICAL

Client Project No.: 2019-093

SSW Architects Project No.: 18054

Date: 09/16/19

M2.02



Second Floor - MECHANICAL

1 / M3.02

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

0 2' 4' 8'

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

SHEET KEYNOTES

1 PROVIDE SIDE INLET CONNECTION BOX ON DIFFUSER.

2 EXTEND ALL POWER AND CONTROL WIRING FOR VFD'S AND CONTROL PANELS TO THIS LOCATION.

SSW ARCHITECTS

SCHREIBER STARLING WHITEHEAD

901 FIFTH AVE NO 3100
SEATTLE, WA 98164
206-682-8300
SSWARCHITECTS.COM

INTERFACE ENGINEERING

PROJECT 2019-0146
CONTACT Rick Silenzi
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

ANDREW W. FRICHTL — STATE OF WASHINGTON — 31,577 — REGISTERED PROFESSIONAL ENGINEER

7/22/19

WASHINGTON STATE PATROL

DNA Lab Remodel

Bid Documents

SECOND FLOOR
- MECHANICAL

Client Project No.: 2019-093

SSW Architects Project No.: 18054

Date: 09/16/19

M3.02

PLUMBING SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

#	NUMBER
&	AND
(A)	ABANDON IN PLACE
(E)	EXISTING
(F)	FUTURE
(N)	NEW
(R)	RELOCATE / RELOCATED LOCATION
(X)	DEMOLISH
@	AT
'	FOOT, FEET
A	AQUASTAT, ARCHITECT, ANCHOR, AMPHERE
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
AR	ACID-RESISTANT
BF	BLIND FLANGE
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
BTUH	BRITISH THERMAL UNITS PER HOUR
BV	BALANCING VALVE
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CFS	CUBIC FEET PER SECOND
CO	CLEANOUT
CONT.	CONTINUATION
CV	CHECK VALVE
CW	COLD WATER
D	DRAIN
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DET	DOMESTIC EXPANSION TANK
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNIT
DN	DOWN
DS	DOWNSPOUT
DSN	DOWNSPOUT NOZZLE
DW	DISHWASHER, DOMESTIC WATER
DWV	DRAINAGE, WASTE AND VENT
EEW	EMERGENCY EYE WASH
EJ	EXPANSION JOINT
ELECT	ELECTRICAL
ESH	EMERGENCY SHOWER
ESV	ELECTRONIC SOLENOID VALVE
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
F	FIRE, FAHRENHEIT
FC	FLEXIBLE CONNECTOR
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FFE	FINISHED FLOOR ELEVATION
FL	FLOOR
FPS	FEET PER SECOND
FS	FLOOR SINK, FLOW SWITCH
FT	FEET
FV	FLUSH VALVE
GD	GARBAGE DISPOSER, GARAGE DRAIN
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
GWH	GAS WATER HEATER
HB	HOSE BIBB
HD	HEAD, HUB DRAIN
HG	MERCURY
HP	HEAT PUMP, HORSE POWER, HOUSEKEEPING PAD
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HW	HOT WATER
HWFU	HOT WATER FIXTURE UNIT
HWR	HOT WATER RETURN
HZ	HERTZ
IN, "	INCHES
INV	INVERT ELEVATION
IW	INDIRECT WASTE
KW	KILOWATT
L	LAVATORY
MAX	MAXIMUM
MH	MOUNTING HEIGHT, MANHOLE
MIN	MINIMUM
MS	MOP SINK
MW	MAKE-UP WATER
MX	MIXING VALVE
N/A	NOT APPLICABLE
N	NORTH
NIC	NOT IN CONTRACT
NO.	NUMBER
NOP	NORMALLY OPEN
NPCW	NON-POTABLE COLD WATER
NTS	NOT TO SCALE
OD	OVERFLOW DRAIN, OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
P	PLUMBING, PUMP
PD	PRESSURE DROP, PLUMBING DEMOLITION, PUMPED DISCHARGE
PG	PRESSURE GAUGE
PH	PHASE
PLBG	PLUMBING
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
QTY	QUANTITY
RD	ROOF DRAIN
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RV	RELIEF VENT, RELIEF VALVE
RWL	RAINWATER LEADER
S, SK	SINK
SA	SHOCK ARRESTOR
SAN	SANITARY
SB	SERVICE BOX
SD	STORM DRAIN
SF	SQUARE FEET
SH	SHOWER
SHT	SHEET
SJ	SEISMIC JOINT
SOV	SHUT OFF VALVE
SP	SUMP PUMP, STATIC PRESSURE
SS	SERVICE SINK
T&P	TEMPERATURE AND PRESSURE
T	TEMPERATURE, THERMOMETER
TD	TRENCH DRAIN
TEMP	TEMPERATURE
TP	TRAP PRIMER, TOTAL PRESSURE
TYP	TYPICAL
U, UR	URINAL
V	VACUUM, VENT, VOLT
VFD	VARIABLE FREQUENCY DRIVE
VS	VENT STACK
VTR	VENT THRU ROOF
W/	WITH
W	WASTE
WB	WASHER BOX
WC	WATER COLUMN
WC	WATER COLUMN, WATER CLOSET
WCO	WALL CLEANOUT
WH	WATER HEATER, WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
WS	WASTE STACK
WSFU	WATER SUPPLY FIXTURE UNIT

General

- DEMOLISH
- EXISTING WORK
- NEW WORK
- PIPE OR CONDUIT BELOW GRADE
- CONTINUATION
- DETAIL NUMBER AND SHEET LOCATION (X / X)
- EQUIPMENT IDENTIFICATION (XX-X LOCATION)
- EXTENT OF DEMOLITION
- FIXTURE TAG (LEVEL BELOW FIXTURE) (X)
- FOOD SERVICE EQUIPMENT / CALCULATION TAG (XX)
- KEYED NOTE (X)
- PIPE BELOW GRADE
- POINT OF CONNECTION
- SECTION NUMBER AND SHEET LOCATION (A / XXX)

Piping Fittings

- ACCESS PANEL (AP)
- AQUASTAT
- AREA DRAIN (AD)
- BLIND FLANGE
- CAP
- CLEANOUT TO GRADE (COTG)
- CONCENTRIC REDUCER
- DOWNSPOUT NOZZLE (DSN)
- ECCENTRIC REDUCER
- EXPANSION JOINT
- FLEXIBLE CONNECTION
- FLOOR CLEANOUT (FCO)
- FLOOR DRAIN (FD)
- FLOOR SINK (FS)
- FLOW DIRECTION
- FLOW SWITCH
- HOSE BIBB / WALL HYDRANT
- HUB DRAIN (HD)
- METER (M)
- OVERFLOW ROOF DRAIN (OD)
- PEX MANIFOLD (PEX)
- PIPE DROP
- PIPE RISE
- PRESSURE GAUGE WITH COCK
- PUMP
- ROOF DRAIN (RD)
- SHOCK ABSORBER / WATER HAMMER ARRESTOR
- STRAINER
- T&P RELIEF VALVE WITH PIPE TO DRAIN
- TEE DOWN ON PIPE
- TEE UP ON PIPE
- TEMPERATURE SENSOR
- TEST PORT
- THERMOMETER
- TRAP PRIMER MANIFOLD (TP)
- TRENCH DRAIN
- UNION
- VACUUM RELIEF
- VENT THROUGH ROOF (VTR)
- WALL CLEANOUT (WCO)

Piping Systems

- 140°HW — 140° HOT WATER PIPING
- 140°HWR — 140° HOT WATER RETURN PIPING
- AV — ACID RESISTANT VENT PIPING
- AW — ACID RESISTANT WASTE ABOVE GRADE
- AW — ACID RESISTANT WASTE BELOW GRADE
- COLD WATER PIPING
- CA — COMPRESSED AIR PIPING
- D — CONDENSATE / INDIRECT DRAIN PIPING
- DIR — DE-IONIZED WATER RETURN
- DIS — DE-IONIZED WATER SUPPLY
- F — FIRE PROTECTION PIPING
- HOT WATER PIPING
- HOT WATER RETURN PIPING
- NP — NON-POTABLE COLD WATER PIPING
- NP — NON-POTABLE HOT WATER PIPING
- NP — NON-POTABLE HOT WATER RETURN PIPING
- OD — OVERFLOW DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR
- PD — PUMPED DISCHARGE
- SANITARY VENT PIPING
- SANITARY WASTE OR SOIL PIPING ABOVE GRADE OR FINISHED FLOOR
- SANITARY WASTE OR SOIL PIPING BELOW GRADE OR FINISHED FLOOR
- SD — STORM DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR
- SD — STORM DRAIN PIPING BELOW GRADE OR FINISHED FLOOR
- TW — TEMPERED WATER PIPING
- TP — TRAP PRIMER PIPING

Valves

- BFP — BACKFLOW PREVENTER
- BACKWATER VALVE
- BALANCING VALVE (X GPM)
- CHECK VALVE
- ELECTRONIC SOLENOID VALVE
- HOSE END DRAIN VALVE
- PRESSURE REDUCING VALVE
- SHUTOFF VALVE, GENERAL

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE TYPE	DESCRIPTION	BASIS OF DESIGN MFR	MODEL	ACCESSORIES	CONNECTION W	V	CW	HW	NOTES
EEW-1	EMERGENCY EYE WASH	DECK MOUNTED, RIGHT SWING ACTIVATION	GUARDIAN	G1805	MIXING VALVE:(EMV-1) SEE PLUMBING DEVICES SCHEDULE	--	--	1/2"	1/2"	
EEW-2	EMERGENCY EYE WASH	DECK MOUNTED, LEFT SWING ACTIVATION	GUARDIAN	G1805LH	MIXING VALVE: (EMV-1) SEE PLUMBING DEVICES SCHEDULE	--	--	1/2"	1/2"	
ESEW-1	EMERGENCY SHOWER / EYE WASH	BARRIER FREE, FLOOR MOUNTED, ABS PLASTIC EYE WASH BOWL, SHOWER HEAD, WATER STRAINER FOR EYE WASH	GUARDIAN	GBF1909PCC	MIXING VALVE: (EMV-2) SEE PLUMBING DEVICES SCHEDULE ALARM	1-1/2"	1-1/2"	1-1/4"	1-1/4"	
S-1	SINK ADA	WALL MOUNT, SINGLE BOWL, 18 GAUGE 304 STAINLESS STEEL, 19-INCHES X 23-INCHES X 4-INCHES DEEP, SIZE, 3-HOLE PUNCH	ELKAY	WCLWO1923OSD-3	FAUCET (5-INCH GOOSENECK WRISTBLADE): CHICAGO 786-E35-319ABCP. MIXING VALVE: (LMV-1)SEE PLUMBING DEVICES SCHEDULE	2"	1-1/2"	1/2"	1/2"	
S-2	SINK ADA	COUNTERTOP, SINGLE BOWL, 18 GAUGE STAINLESS STEEL, 15-INCHES X 17-1/2-INCHES X 6-1/2-INCHES DEEP, 18-INCH MINIMUM CABINET SIZE, 3-HOLE PUNCH, BARRIER FREE	ELKAY	LRAD172265PD	FAUCET (5-INCH GOOSENECK WRISTBLADE): CHICAGO 50-E35-317XKABCP	2"	1-1/2"	1/2"	1/2"	PROVIDE WATER AND DRAIN TO ASSOCIATED WITH DISWASHER

NOTES:
1 SEE ARCHITECTURAL DRAWINGS FOR ALL FIXTURE MOUNTING HEIGHTS AND LOCATIONS.
* UNLESS NOTED OTHERWISE ON DRAWINGS

PLUMBING DEVICES SCHEDULE

SYMBOL	FIXTURE TYPE	DESCRIPTION	BASIS OF DESIGN MFR	MODEL	ACCESSORIES	CONNECTION W	V	CW	HW	NOTES
EMV-1	EMERGENCY MIXING VALVE - EYEWASHES	BRONZE BODY, INTERNAL COLD WATER BYPASS, ADJUSTABLE TEMEPRATURE LIMIT STOP, CHECK STOPS, DIAL THERMOMETER, 4 GPM AT 30 PSI.	LEONARD	TA-300		---	---	1/2"	1/2"	
EMV-2	EMERGENCY MIXING VALVE - MULTIPLE EMERGENCY SHOWERS	BRONZE BODY, INTERNAL COLD WATER BYPASS, ADJUSTABLE TEMEPRATURE LIMIT STOP, CHECK STOPS, DIAL THERMOMETER, 40 GPM AT 30 PSI.	LEONARD	TM-5100		---	---	1-1/4"	1-1/4"	
LMV-1	LAVATORY MIXING VALVE	THERMOSTATIC MIXING VALVE, ASSE 1070 COMPLIANT, INTEGRAL CHECK VALVES, LEAD FREE: WATTS LFMMV	WATTS	LFMMV		---	---	1/2"	1/2"	

NOTES:

SHEET INDEX

P0.1 SYMBOLS LIST & SCHEDULES - PLUMBING

P3.02 SECOND FLOOR - PLUMBING

SSW ARCHITECTS

SCHREIBER STARLING WHITEHEAD

901 FIFTH AVE NO 3100
SEATTLE, WA 98164
206-682-8300
SSWARCHITECTS.COM

INTERFACE ENGINEERING
PROJECT 2019-0146
CONTACT Jerry Atienza
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

ANDREW W. FRICHTL — STATE OF WASHINGTON — 31,577 — REGISTERED PROFESSIONAL ENGINEER
7/22/19

WASHINGTON STATE PATROL

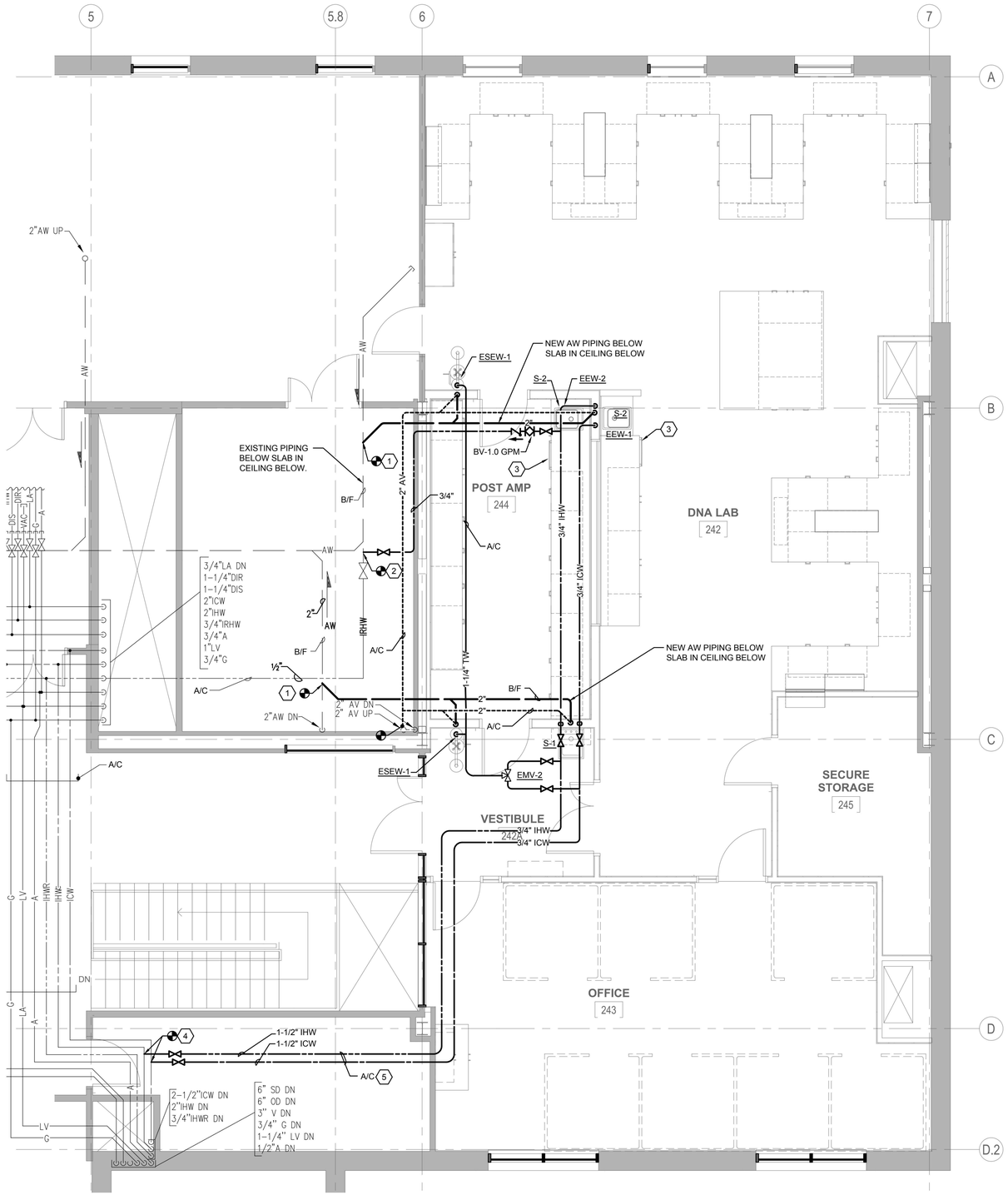
DNA Lab Remodel

Bid Documents

SYMBOLS LIST & SCHEDULES - PLUMBING

Client Project No.: 2019-093
SSW Architects Project No.: 18054
Date: 09/16/19

P0.1



1 P3.02 Second Floor - PLUMBING

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

0 2' 4' 8'

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

GENERAL SHEET NOTES

A. CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION OF POINT OF CONNECTION TO EXISTING PIPING PRIOR TO BE WORK.

B. INSTALL NEW INDUSTRIAL WATER PIPING AND ACID WASTE PIPING AS REQUIRED TO SERVE NEW PLUMBING FIXTURES. CONNECT TO EXISTING AWV AND IHW/ICW PIPING AT CLOSEST MAIN. SEE PLUMBING FIXTURE SCHEDULE FOR PIPE SIZES.

SHEET KEYNOTES

1 CONTRACTOR SHALL CONNECT NEW 2" ACID WASTE PIPING TO THE EXISTING 2" ACID WASTE PIPING IN THE CEILING OF LEVEL 1 AT THIS APPROXIMATE LOCATION. CONTRACTOR TO VERIFY EXACT POINT OF CONNECTION PRIOR TO BEGINNING WORK.

2 CONNECT 1/2" IRHW TO EXISTING 1/2" IRHW PIPING ABOVE THE CEILING AT THIS APPROXIMATE LOCATION.

3 CONNECT DISHWASHER DRAIN TO ADJACENT SINK TAILPIECE. PROVIDE HOT/COLD WATER CONNECTION TO DISHWASHER.

4 CONNECT NEW IHW/ICW PIPING TO EXISTING PIPING ABOVE THE CEILING AT THIS APPROXIMATE LOCATION.

5 PROVIDE DRIP PAN UNDER PIPING THROUGH TELECOM ROOM. PIPE DRAIN DOWN SHAFT AND TO FLOOR DRAIN LOCATED IN BOILER ROOM DIRECTLY BELOW.

SSW ARCHITECTS
SCHREIBER STARLING WHITEHEAD
901 FIFTH AVE NO 3100
SEATTLE, WA 98164
206-682-8300
SSWARCHITECTS.COM

INTERFACE ENGINEERING
PROJECT 2019-0146
CONTACT Ricky Silveira
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

ANDREW W. FRICHTL
STATE OF WASHINGTON
31,877
REGISTERED PROFESSIONAL ENGINEER
7/22/19

WSP WASHINGTON STATE PATROL

DNA Lab Remodel

Bid Documents

SECOND FLOOR
- PLUMBING

Client Project No.: 2019-093
SSW Architects Project No.: 18054
Date: 09/16/19

P3.02

6 R1.0 View to East Wall

5 R1.0 View North & East Walls

4 R1.0 View to North & West Walls

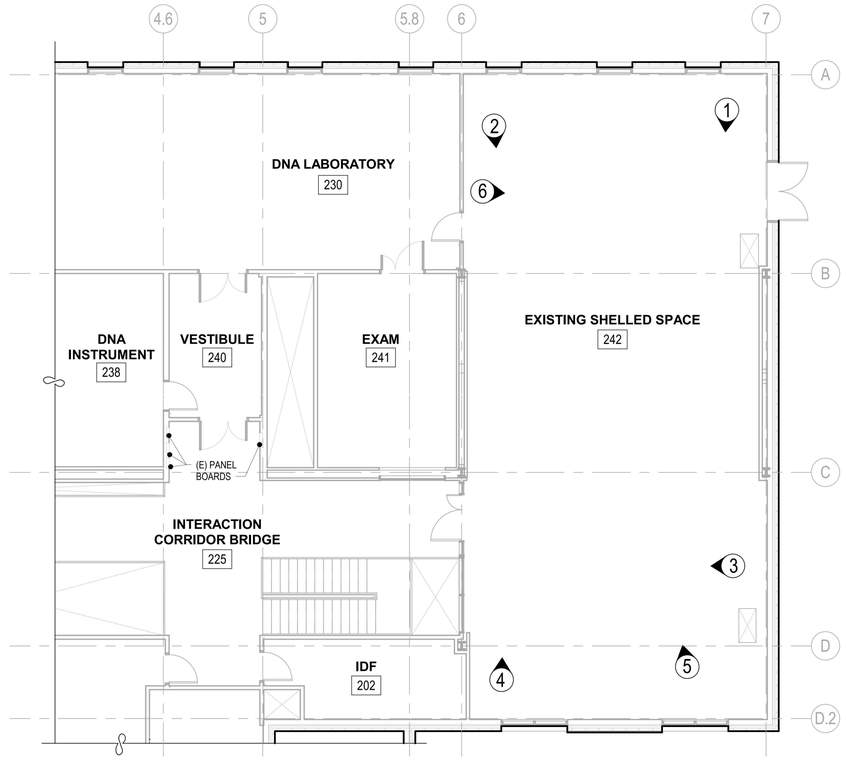
3 R1.0 View to West Wall

2 R1.0 View to South & East Walls

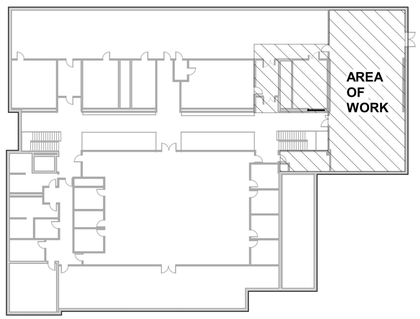
1 R1.0 View to South & West Walls

Site Notes

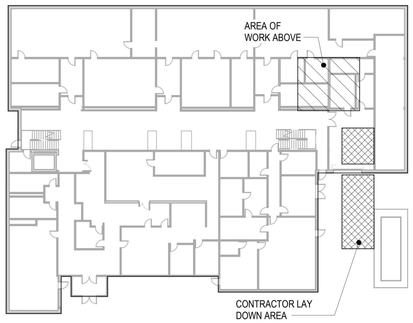
1. Field verify all relevant existing conditions and dimensions prior to the start of Work. Notify Architect immediately of any discrepancies.
2. Protect all existing conditions to remain on site and adjacent to Work area. Notify Architect of any damage to existing conditions to remain and restore or replace to original condition.
3. Confirm location of adjacent overhead utilities and protect all existing conditions to remain.
4. Existing shelled space has been cleared of stored materials.



N 9 R1.00 Second Floor Plan- Photo Reference
Scale: 1/8" = 1'-0"



N 8 R1.00 Second Floor Reference Plan
Scale: 1/32" = 1'-0"



N 7 R1.00 First Floor Reference Plan
Scale: 1/32" = 1'-0"

SSW ARCHITECTS
SCHREIBER STARLING WHITEHEAD
901 FIFTH AVE NO 3100
SEATTLE, WA 98164
206-682-8300
SSWARCHITECTS.COM

4199 REGISTERED ARCHITECT
KEITH JAMES SCHREIBER
STATE OF WASHINGTON

WASHINGTON STATE PATROL WSP

High Throughput DNA Lab T.I.

Bid Documents

Existing Conditions Photographs

Client Project	2019-093
SSW Architects Project No.:	18054
Date	09/16/19

R1.00

Washington State Patrol

High Throughput DNA Laboratory T.I.

Vancouver, Washington

State Project No. 2019-093

Bid Set

Abbreviations: Terminology

(SEE LEGENDS & NOTES FOR EACH DISCIPLINE FOR ADDITIONAL ABBREVIATIONS)

Units of Measure:

AWG	American wire gauge
BTU	British thermal unit
CF	cubic foot (feet)
CU IN	cubic inch(es)
CY	cubic yard
FT	foot, feet
GA	gauge
GAL	gallon(s)
IN	inch(es)
LB	pounds
LF	linear feet
MIN	minimum
MAX	maximum
PSF	pounds per square foot
PSI	pounds per square inch
R VALUE	thermal resistance
SF	square foot (feet)
SQ IN	square inches
U VALUE	thermal conductance (1/R)
V	volt(s)
VAC	volts, AC
VDC	volts, DC
W	watts
YD	yard

Terminology:

@	at
&	and
AB	anchor bolt
ACOUST	acoustic
ACP	asphalt concrete paving
ACT	acoustic ceiling tile
ACM	aluminum composite material
ADA	accessible per UBC chap. 11
ADJ	adjacent, adjustable
A/E	architect/ engineer
AESS	architecturally exposed structural steel
AFF	above finish floor
AHJ	authority having jurisdiction
ALUM	aluminum
ANCH	anchor
ANOD	anodized
APPROX	approximate
AVG	average
AWP	acoustic wall panel
B	base cabinet
BB	bulletin board
BD	board
BF	braced frame
BLDG	building
BLKG	blocking
BOT	bottom
BR	brochure rack
BRG	bearing
BTF	beat to fit
BTWN	between
CB	catch basin
CD	ceiling diffuser
CEM	cement
CFCI	contractor furnished/ contractor installed
CG	corner guard
CIP	cast-in-place
CJ	control joint
CLG	ceiling
CLR	clear
CMU	concrete masonry unit
COL	column
CONC	concrete
CONT	continuous
CONT	contractor
COORD	coordinate
CPT	carpet
CR	card reader
CT	ceramic tile
CTR	center
CUST	custodial
CW	cold water
CWC	continuous work-counter
CWP	composite aluminum wall panel
DA	door actuator
DBL	double
DC	recessed display cabinet
DET	detail
DF	drinking fountain
DIAG	diagonal
DIM	dimension
DN	down
DS	downspout
DWG	drawing
E	east
EA	each
EF	each face; exhaust fan
EJ	expansion joint
ELEC	electrical
EQ	equal
EST	estimated
EUT	extended utility tunnel
EWC	electric water cooler
(E)/EX	existing
EXH	exhaust
EXP	expansion; exposed
EXT	exterior
FACP	fire alarm control panel
FCR	future card reader
FD	floor drain
FDC	fire department connection
FDN	foundation
FE	fire extinguisher
FEC	fire extinguisher cabinet
FH	fire hydrant
FHA	fire hydrant assembly
FIN	finish(ed)
FLG	flooring
FLR	floor
FOS	face of stud
FPA	fall protection anchor
FURN	furnish
GA	gauge
GALV	galvanized
GEN	generator, general
GFR	glass fiber reinforced
GL	glass
GWB	gypsum wallboard
GYP	gypsum
HB	hose bibb
HDWR	hardware
HGT	height, high
HID	high intensity discharge
HM	hollow metal
HORIZ	horizontal
ID	inside diameter
INCL	include(d)
INSUL	insulation
INT	interior
INV	invert
JB	junction box - electrical, AV,or communications
JST	joist
JT	joint
LAM	laminate
LAV	lavatory
LB	light bollard
LF	light fixture
LIN	linear
LOCS	locations
LPS	laptop storage area
MACH	machine
MAS	masonry
MATL	material
MAX	maximum
MB	marker board
MDF	medium density fiberboard
MDO	medium density overlay
MECH	mechanical
MFR	manufacturer
MH	manhole
MIN	minimum
MISC	miscellaneous
MO	masonry opening
MT	mount
MTD	mounted
MWP	manufactured wall panel
N	north
NAT	natural
NIC	not in contract
NOM	nominal
NRC	noise reduction coefficient
NTS	not to scale
O/	over
OC	on center; overcurrent
OD	outside diameter
OFCI	owner furnished / contractor installed
OFOI	owner furnished / owner installed
OH	overhead
OPNG	opening
OPP	opposite
PATT	pattern
PERF	perforated
PERM	permanent
PIV	post indicator valve
PLAM	plastic laminate
PLBG	plumbing
PT	paint
PR	pair
PT	pressure treated
PTD	painted
PTN	partition
PV	photovoltaic
PVC	polyvinylchloride
PVMT	pavement
PLYWD	plywood
RA	relief angle
RB	resilient base
RD	roof drain
REF	reference, refer
REIN	reinforced
REQ'D	required
REV	revise, revision, reverse
RFB	recessed floor box
RHP	radiant heat panel
RJ	reveal joint
RL	rain leader
RM	room
RO	rough opening
S	sink cabinet
SAN	sanitary
SB	standing height base cabinet
SCHED	schedule
SF	supply fan
SGL	single
SIM	similar
SJC	siesmic joint cover
SMB	sliding marker board
SP	stand pipe
SPEC	specification
SQ	square
SS	stainless steel
STD	standard
STL	steel
STRUCT	structural
SURF	surface
SUSP	suspended
T	toilet
TB	tackboard
TC	tall cabinet
TEMP	temporary
TESC &	temporary erosion sediment control
T/O	top of
TOC	top of concrete
TOS	top of steel; top of structure
TOW	top of wall
TP	toilet partition
TYP	typical
UH	unit heater
UNEX	unexcavated
UNFIN	unfinished
UON	unless otherwise noted
VB	vapor barrier
VEH	vehicle
VERT	vertical
VIF	verify in field
VOL	volume
W	west
W/	with
WC	water closet
WD	wood
WF	wide flange
WH	water heater; wall hydrant
WL	wind load
W/O	without
WP	weatherproof / waterproof

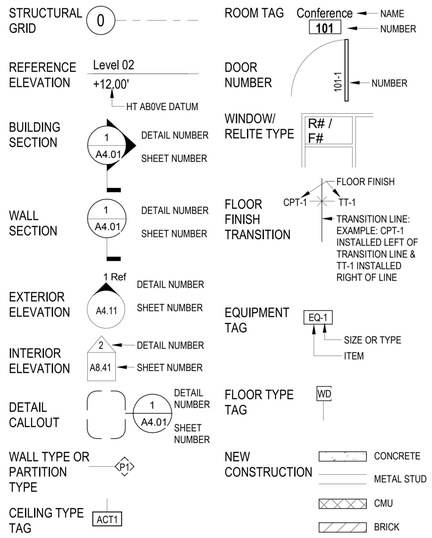
Sheet Index

T1.00	Title Sheet
R1.00	Existing Conditions Photographs
A3.02	Second Floor Plan
A3.03	Second Floor Ceiling Plan
A4.00	Interior Elevations
A7.00	Details
A7.01	Details
A7.02	Details
E0.01	Symbols List & General Notes - Electrical
E2.02	Second Floor Plan - Lighting
E3.02	Second Floor Plan - Power & Signal
E4.01	One-Line Diagram - Electrical
E5.01	Details & Schedules - Electrical
M0.1	Symbols List & General Notes - Mechanical
M2.02	Second Floor Demo - Mechanical
M3.02	Second Floor - Mechanical
P0.1	Symbols List & Schedules - Plumbing
P3.02	Second Floor - Plumbing

General Notes

1. These drawings are intended to provide a general description of the scope of work and must be reviewed for intent as well as specific information. It is the sole responsibility of the Contractor to execute the work with generally accepted standards of quality construction to provide a completed project for intended purpose.
2. Field-verify all relevant dimensions and existing conditions.
3. 2015 IBC governs. Verify with agency having jurisdiction prior to start of work.
4. Call for all inspections required by public officials and agencies having jurisdiction at the project site.
5. DO NOT SCALE DRAWINGS.
6. Items shown in half tone are not in contract.
7. Contractor is responsible for building security at all times during the construction phase of this project.

Symbols Legend



Legal Description

Tax Assessor Number: 47210000

Applicable Codes

Wahinton State Builing Code 2015 Edition (2015 IBC w/ Amendments)
Jursidiction is State of Washington, City of Vancouver

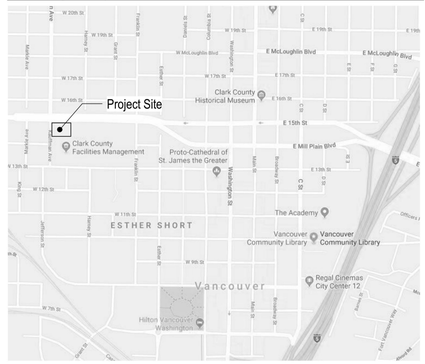
Occupancy Classification

Group B Occupancy

Scope of Work

The scope of work includes interior remodel of a portion of the second floor of the Vancouver Crime Lab (which is currently a shelled space) to provide for high-throughput DNA processing. The area of the proposed project totals approximately 2,150-sf.

Vicinity Map



Owner:

Washington State Patrol Crime Laboratory

1401 Kauffman Ave.
Vancouver, Washington 98660
360-704-5430
Contact: Alan Spahr

Owner's Representative:

State of Washington
Department of Enterprise Services
Engineering & Architectural Services

1500 Jefferson Street SE
Olympia, WA 98501
P.O. Box 41476
Olympia, WA 98504-1476
253-701-7429
Contact: Glen Gipe

Architect:

Schreiber Starling Whitehead Architects

901 Fifth Avenue #3100
Seattle, Washington 98164
206-682-8300
Contact: Kevin Maynard

Mechanical Engineer:

Interface Engineering

100 SW Main Street #1600
Protland, Oregon 97204
503-382-2673
Contact: Rick Silenzi

Electrical Engineer:

Interface Engineering

100 SW Main Street #1600
Protland, Oregon 97204
503-382-2746
Contact: Jim Sattem

APPROVED FOR BID:

Brian Blooms, Director of Facilities, Washington State Patrol

Glen Gipe, Project Manager for DES Engineering and Architectural Services

Nancy Deakins, PE, Assistant Program Manager for DES Engineering and Architectural Services 9/10/19

SSW ARCHITECTS
SCHREIBER STARLING WHITEHEAD
901 FIFTH AVE NO 3100
SEATTLE, WA 98164
206-682-8300
SSWARCHITECTS.COM

4199 REGISTERED ARCHITECT KEITH JAMES SCHREIBER STATE OF WASHINGTON

WASHINGTON STATE PATROL

High Throughput DNA Lab T.I.

Bid Documents

Title Sheet

Client Project	2019-093
SSW Architects Project No.:	18054
Date	09/16/19

T1.00