

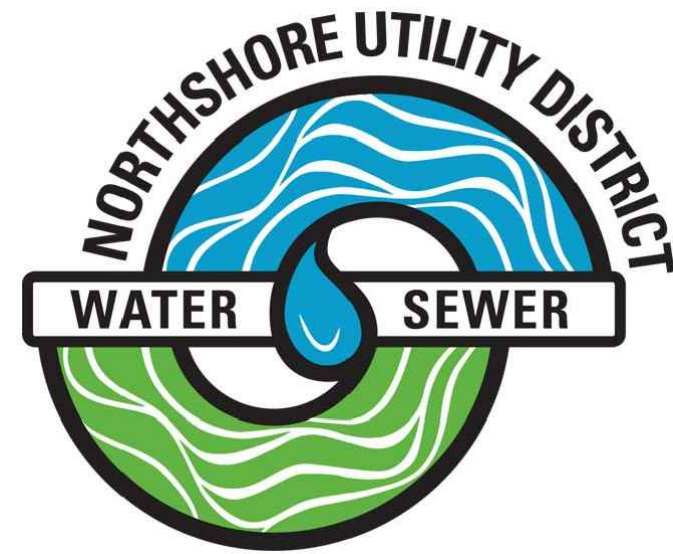
NORTHSHORE UTILITY DISTRICT

King County, Washington

CONTRACT 2023-01

BUILDING "A" IMPROVEMENTS

MARCH 2023



Board President
SUZANNE GREATHOUSE

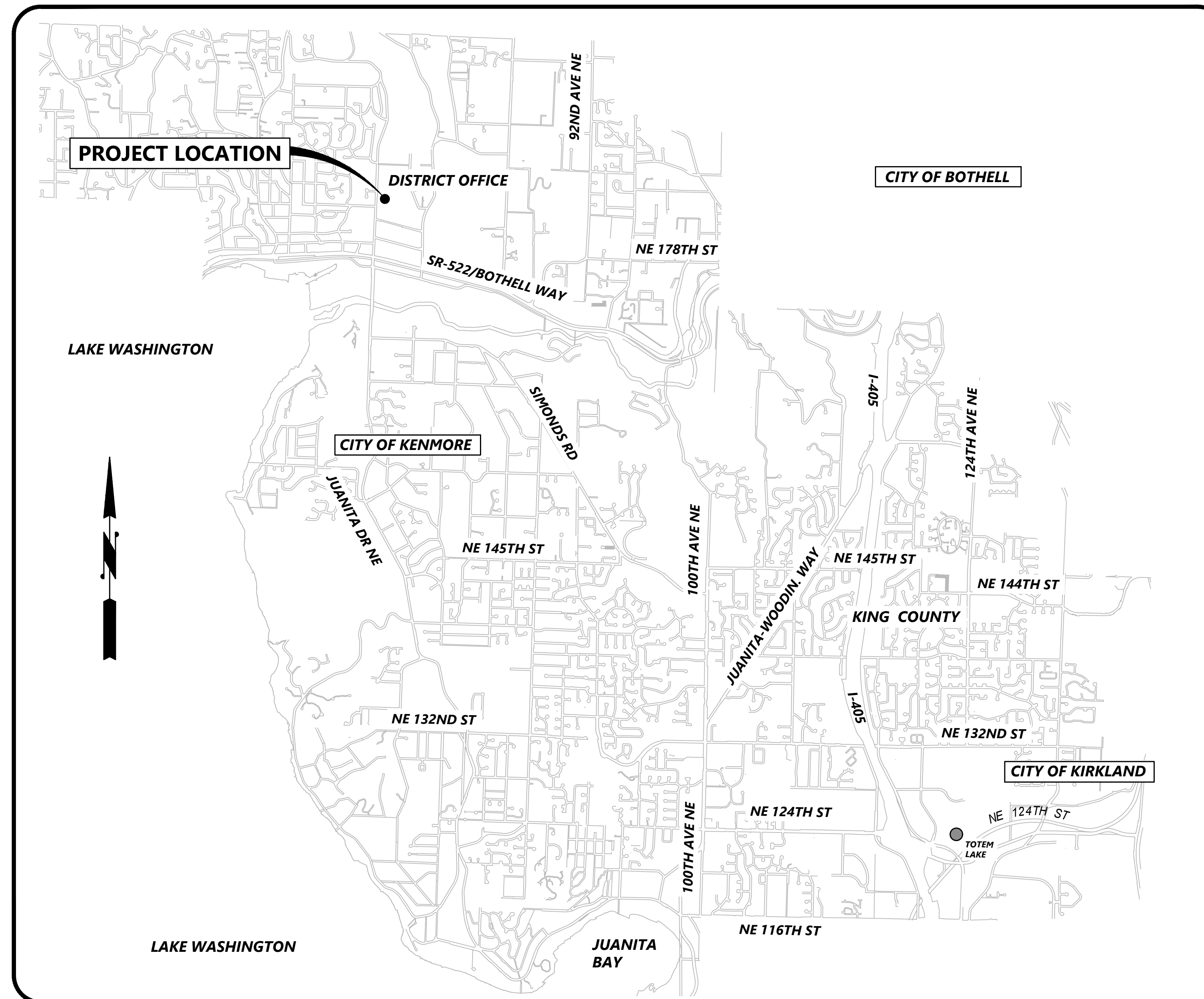
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Acting General Manager
AMANDA CAMPBELL



DEFERRED BUILDING PERMIT SUBMITTALS

- PLUMBING SUBMITTAL
- MECHANICAL SUBMITTAL
- FIRE PROTECTION AND ALARM SUBMITTAL

VICINITY MAP
NOT TO SCALE

C1813

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SHEET NO.	SHEET TITLE
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ED-1.11	BUILDING A - WEST ELECTRICAL DEMOLITION PLAN
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ED-6.0	EXISTING ONELINE DIAGRAM
TD-1.1	LOW VOLTAGE DEMOLITION PLAN

BUILDING DATA

CODES:

IBC	2018	INTERNATIONAL BUILDING CODE
IMC	2018	INTERNATIONAL MECHANICAL CODE
IFC	2018	INTERNATIONAL FIRE CODE
UPC	2018	UNIFORM PLUMBING CODE
WSEC	2018	WASHINGTON STATE ENERGY CODE

PROJECT DESCRIPTION:

PROJECT INCLUDES REVISIONS TO AN EXISTING 27,500± SF CEMENT CONCRETE, TILT-UP BUILDING ORIGINALLY CONSTRUCTED IN 1980 AND EXTENSIVELY REMODELED IN 1998/1999. IMPROVEMENTS INCLUDE: DEMOLITION; LOBBY CONSTRUCTION; SECURITY IMPROVEMENTS; REPLACEMENT OF METAL ROOFING; SEISMIC RESPONSE RETROFITTING TO TILT-UP WALL, FIRE SPRINKLER PIPING, GAS PIPING AND BUILDING CONNECTIONS; GENERAL REMODELING OF WALLS, FLOORING, AND CEILINGS; INVENTORY ROOM CEILING REPLACEMENT; FURNISHINGS REPLACEMENT; HVAC IMPROVEMENTS AND MODIFICATIONS; AND ELECTRICAL SYSTEM IMPROVEMENTS AND MODIFICATIONS. SEE THE PROJECT PLANS AND SPECIFICATIONS FOR DETAILS.

GROSS BUILDING AREAS

BUILDING (OVERALL): 27,530 SF

IBC OCCUPANCY AND TYPE (CHAPTER 3):

B: ENTIRE BUILDING
(ADMIN/OFFICE AREA - NO CHANGE TO EXISTING OCCUPANCY OR LOAD CALCULATIONS)

ALLOWABLE BUILDING AREA (IBC 506.2):

B (TYPE VB): 36,000 SF
(SPRINKLERED, SINGLE STORY)

FIRE RESISTIVE BUILDING ELEMENTS REQUIREMENTS (IBC 601):

PRIMARY STRUCTURAL FRAME:	0 HOURS
BEARING WALLS:	0 HOURS
NONBEARING WALLS:	0 HOURS
FLOOR ASSEMBLIES:	0 HOURS
ROOF ASSEMBLIES:	0 HOURS

FIRE RESISTIVE EXTERIOR WALLS REQUIREMENTS (IBC 602):

ALL SEPARATION DISTANCES ≥ 10 FT: 0 HOURS

AUTOMATIC SPRINKLER SYSTEMS (IBC 903):

B (TYPE VB): REQ'D PER BLDG. AREA
(EXISTING NFPA 13 SPRINKLER SYSTEM THROUGHOUT; MINOR REVISIONS TO HEAD LAYOUT PER DEFERRED FIRE DESIGN SUBMITTAL)

FIRE ALARM AND DETECTION SYSTEMS (IBC 907):

B (TYPE VB): REQ'D PER BLDG. AREA
(EXISTING NFPA 72 ALARM SYSTEM THROUGHOUT; MINOR REVISIONS TO DEVICE LAYOUT PER DEFERRED SYSTEM DESIGN SUBMITTAL)

SITE CIVIL NOTES:

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE CURRENT NORTHSHORE UTILITY DISTRICT STANDARD SPECIFICATIONS AND STANDARD DETAILS.
- THE APPROXIMATE LOCATIONS OF EXISTING UTILITIES ARE SHOWN ON THE PLANS FOR CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF UTILITY LOCATIONS SHOWN, FOR THE PROTECTION AND REPAIR OF DAMAGED UTILITIES AND FOR THE DISCOVERY OF POSSIBLE ADDITIONAL UTILITIES NOT SHOWN ON THE PLANS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE LOCATED, BY THE OWNER.
- A PRE-CONSTRUCTION CONFERENCE WILL BE HELD AT THE DISTRICT OFFICE PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL NOT OPERATE ANY VALVES OR MAKE ANY CONNECTIONS TO THE EXISTING WATER SYSTEM WITHOUT PRIOR APPROVAL FROM THE DISTRICT.

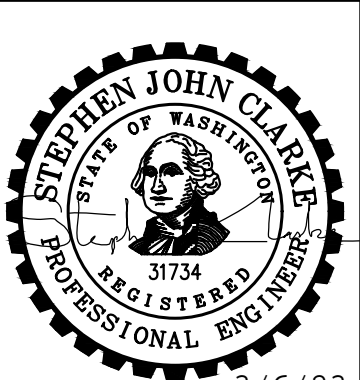
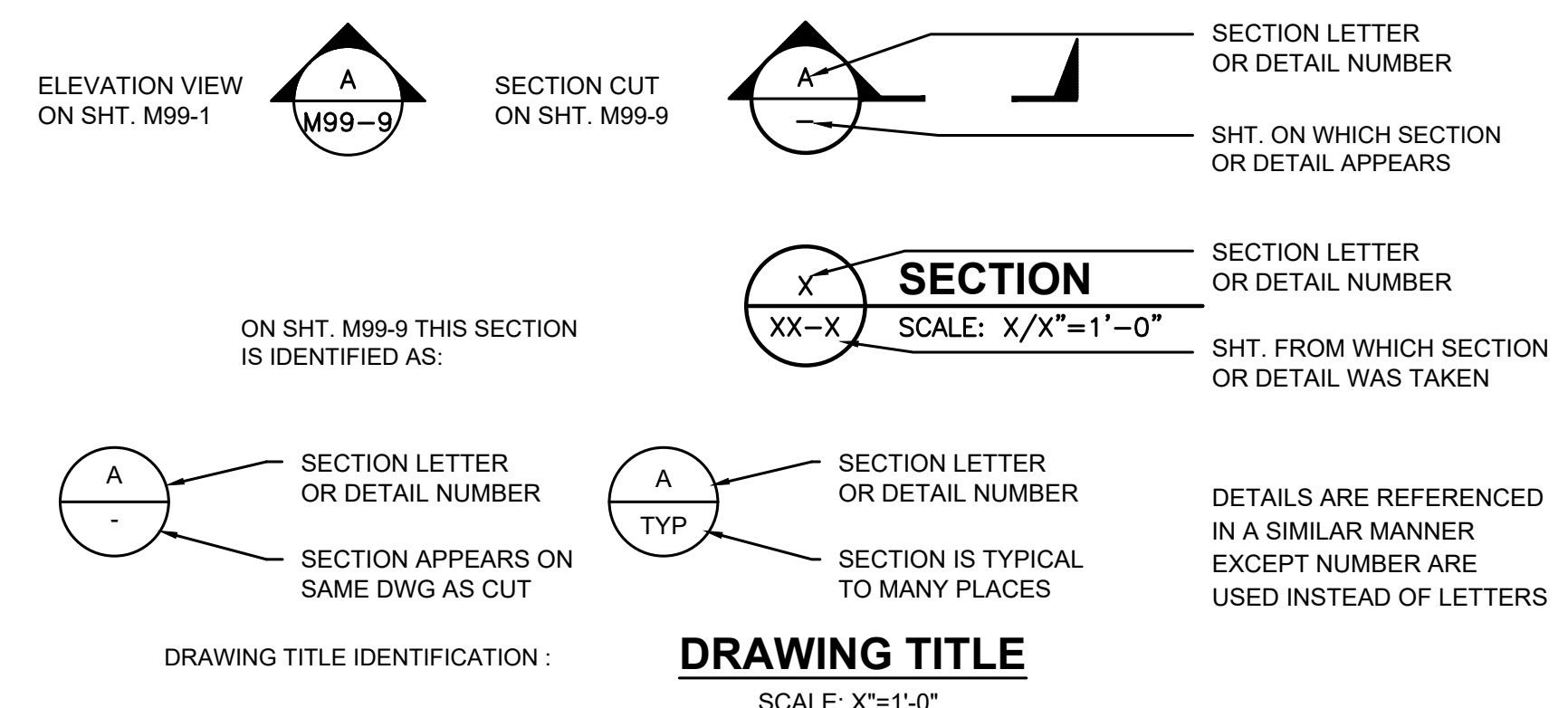
ABBREVIATIONS

AVE	AVENUE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASPH	ASPHALT
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
ASSY	ASSEMBLY
BF	BLIND FLANGE
BLDG	BUILDING
BLK	BLOCK
BO	BLOW OFF
CTR	CENTER
CB	CATCH BASIN
CI	CAST IRON
CL	CENTER LINE
CLR	CLEARANCE
CO	CLEANOUT
CONC	CONCRETE
C	CONDUIT
CONN	CONNECTION
CL	CLASS
DI	DUCTILE IRON
DIA	DIAMETER
DIM	DIMENSION
DWGS	DRAWING(S)
D	DRAIN
EA	EACH
EL	ELEVATION
ELEC	ELECTRICAL
EXIST	EXISTING
FIN	FINISHED
FL	FLANGE
FT	FEET
GA	GAUGE
GALV	GALVANIZED
GI	GALVANIZED IRON
GV	GATE VALVE
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
INV	INVERT
IN	INCH
L	LENGTH
LB	POUND
LF	LINEAR FEET
MAX	MAXIMUM
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
MISC	MISCELLANEOUS
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
PP	POWER POLE
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QTY	QUANTITY
RET	RETAINING
R	RADIUS
REINF	REINFORCE
REQD	REQUIRED
SF	SQUARE FEET
SHT	SHEET
SPECS	SPECIFICATIONS
STD	STANDARD
TEL	TELEPHONE
THRD	THREADED
THRU	THROUGH
TYP	TYPICAL
VERT	VERTICAL
WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
W/	WITH
W/O	WITHOUT

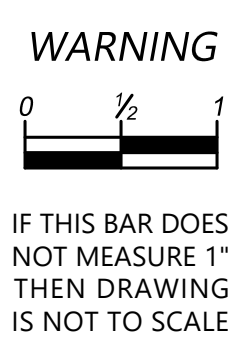
LEGEND

EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE
		RIGHT OF WAY LINE
		DITCH CENTERLINE
		SIDE SLOPE
		WATER LINE
		SANITARY SEWER LINE
		SEWER FORCE MAIN
		STORM DRAIN LINE
		STORM DRAIN CULVERT
		SWALE OR DITCH
		GAS LINE
		UNDERGROUND POWER LINE
		OVERHEAD POWER LINE
		TELEPHONE LINE
		CABLE LINE
		CHAIN LINK FENCE
		WATER METER
		FIRE HYDRANT
		WATER VALVE
		AIR RELIEF VALVE
		CLEAN OUT
		SANITARY MANHOLE
		STORM DRAIN CATCH BASIN
		POWER POLE
		GUY ANCHOR
		LIGHT POLE
		SIGNAL POLE
		ELECTRICAL HANDHOLE
		MONUMENT
		TREE
		CRUSHED SURFACING
		CRUSHED SURFACING
		CEMENT CONCRETE
		CEMENT CONCRETE CURB, GUTTER
		HMA PAVEMENT
		GRAVEL
		LANDSCAPING RESTORATION
		FLEXIBLE PIPE CONNECTION
		CATCHBASIN INLET PROTECTION
		PROPERTY ADDRESS

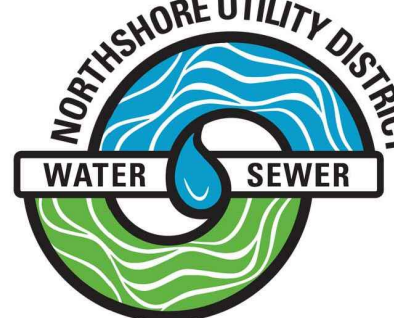
EXAMPLE OF SECTION NUMBERING SYSTEM AND PLAN/DRAWING TITLES



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APPROVAL	EBD
DATE	MAR. 2023



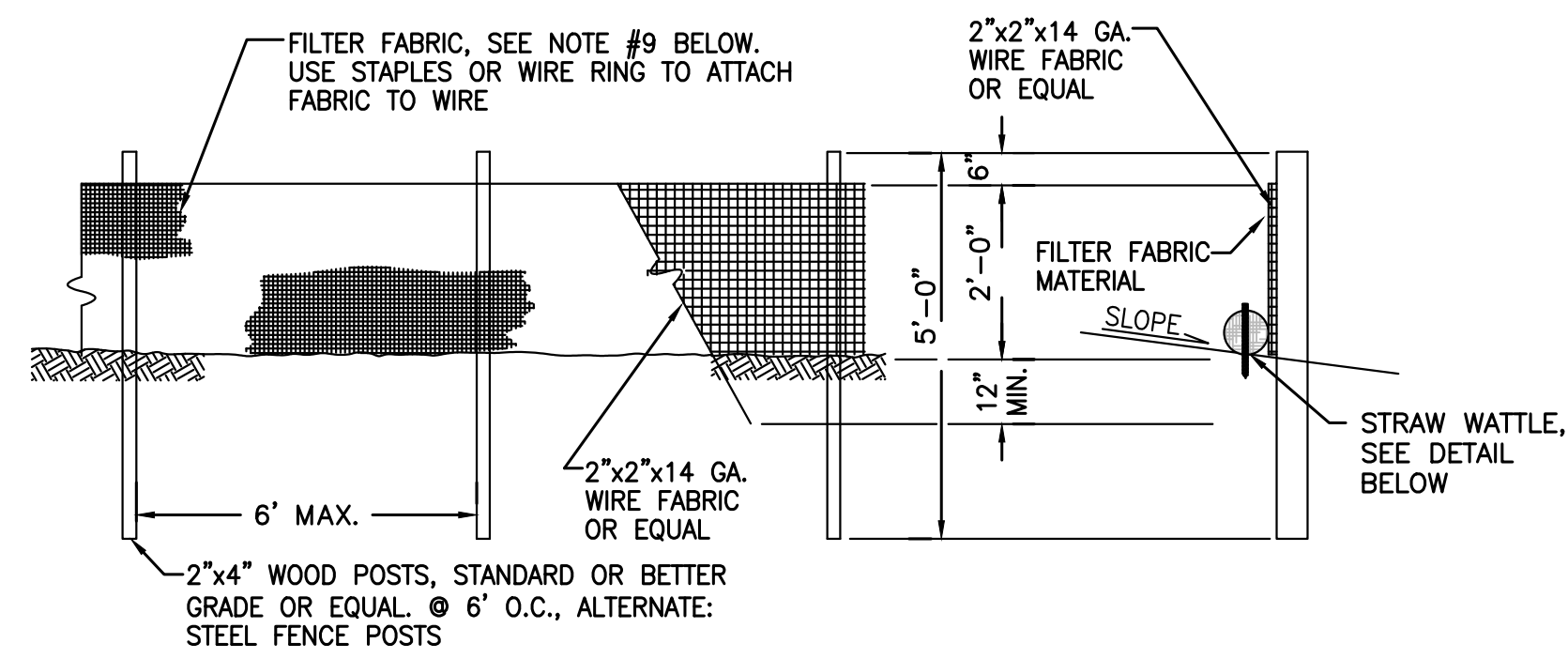
NORTHSHORE UTILITY DISTRICT
 6830 NE 185th St. P.O. Box 82489
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CONTRACT 2023-01
 BUILDING "A" IMPROVEMENTS
LEGEND AND NOTES

SHEET
 C-2
 OF 14

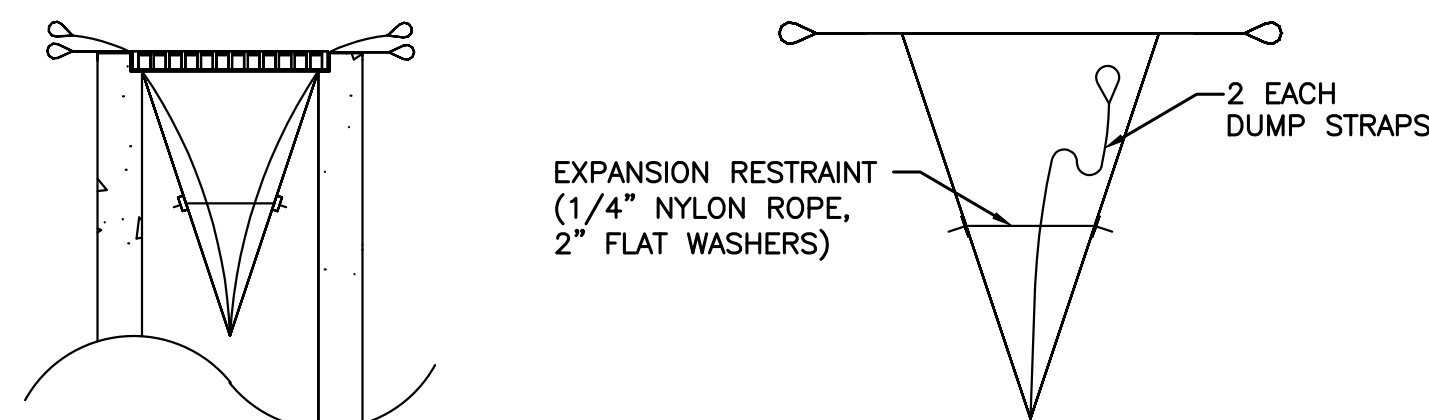
TEMPORARY EROSION AND SEDIMENTATION CONTROL NOTES

1. THE TEMPORARY EROSION AND SEDIMENTATION CONTROL (TESC) FACILITIES SHALL BE IMPLEMENTED PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS. MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE TESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
2. THE STORM DRAIN INLET PROTECTION DEVICE SHALL BE SILT SACK OR EQUAL. ALL CATCH BASINS WITHIN THE VICINITY OF THE CONSTRUCTION SHALL HAVE INLET PROTECTION MEASURES.
3. CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE CHANNELS, CULVERTS, SWALES AND STRUCTURES. WHENEVER EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE SUITABLE MEANS FOR DIVERTING AND MAINTAINING ALL FLOWS DURING CONSTRUCTION IN THAT AREA AT ITS EXPENSE. AFTER CONSTRUCTION HAS BEEN COMPLETED, ALL DRAINAGE CHANNELS, CULVERTS, SWALES AND STRUCTURES DISTURBED SHALL BE RETURNED TO THEIR ORIGINAL CONDITIONS.
4. THE TESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, TESC FACILITIES SHALL BE MAINTAINED AND UPGRADED AS NECESSARY BY THE CONTRACTOR.
5. CONTRACTOR SHALL INSPECT THE TESC FACILITIES AT THE END OF EACH WORKING DAY TO ASSURE ITSELF THAT THEY ARE IN GOOD CONDITIONS. IF TESC FACILITIES REQUIRE REPAIR/MAINTENANCE, IT SHALL BE PERFORMED PRIOR TO THE END OF THE WORKING DAY. ALL DISTURBED AREAS SHALL BE PROMPTLY AND THOROUGHLY STABILIZED AGAINST EROSION DURING PERIODS OF WET WEATHER WHEN WORK IS NOT BEING PERFORMED AT THE SITE.
6. ALL UNSUITABLE OR SURPLUS EXCAVATED OR CLEARED MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN AN APPROVED, LEGAL FILL SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ACCEPTABLE DISPOSAL SITES AND ASSURE THAT ALL SURPLUS MATERIAL IS DISPOSED OF IN SAME.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ALL APPROPRIATE MEASURES NEEDED (STREET SWEEPERS, WATER TRUCKS, ETC.) TO KEEP STREETS AND ROADS USED AS HAUL ROUTES FOR EXPORT OR IMPORT OF MATERIAL CLEAN AND FREE FROM DEBRIS, MUD, ETC. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.



NOTES

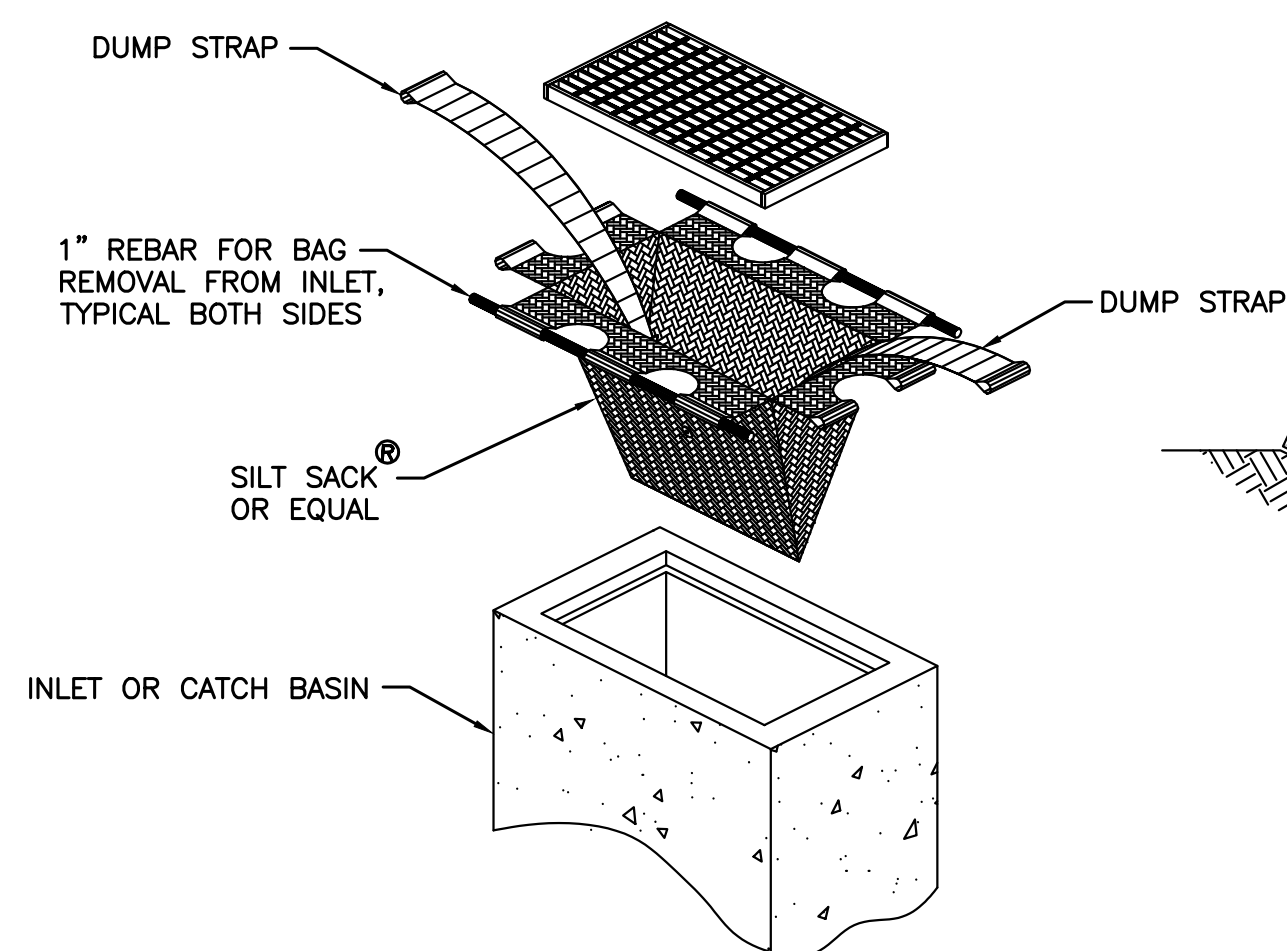
1. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP AND BOTH ENDS SECURELY FASTENED TO THE POST.
2. THE FILTER FABRIC FENCE SHALL BE INSTALLED TO FOLLOW THE CONTOURS (WHERE FEASIBLE). THE FENCE POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 30 INCHES).
3. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRE OR HOG RINGS.
4. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 20 INCHES OF THE FABRIC SHALL BE EXTENDED ACROSS THE GROUND, UPSLOPE AND ADJACENT TO THE WOOD POST. THE FABRIC SHALL NOT EXTEND MORE THAN 30 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
5. WHEN EXTRA FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF STANDARD NOTE 3 APPLYING.
6. FABRIC SHALL BE SECURED AT THE BASE BY PEA-ROCK FILLED SANDBAGS OR STRAW WATTLES PLACED END TO END.
7. FILTER FABRIC FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
8. FILTER FABRIC FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
9. FILTER FABRIC SHALL BE PER CURRENT GEOTEXTILE FABRIC STANDARDS FOR SILT FENCE IN THE DEPARTMENT OF ECOLOGY STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON.



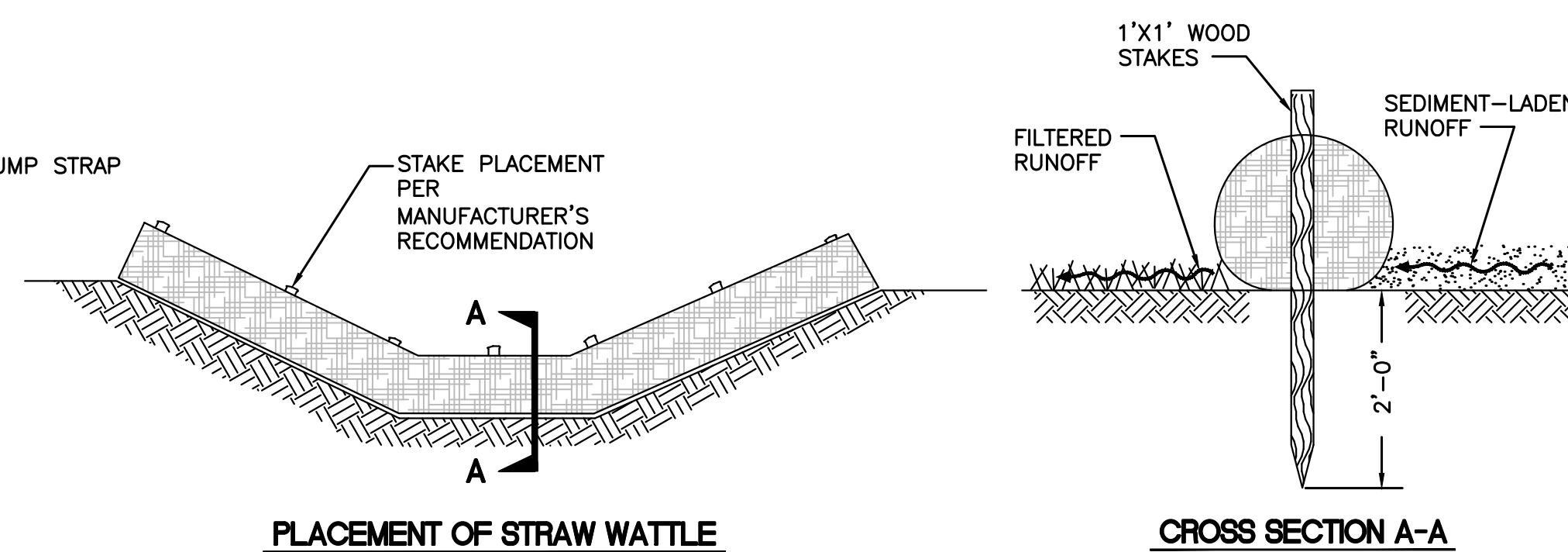
INSTALLATION DETAIL

BAG DETAIL

2 HIGH VISIBILITY FILTER FABRIC FENCE
NOT TO SCALE



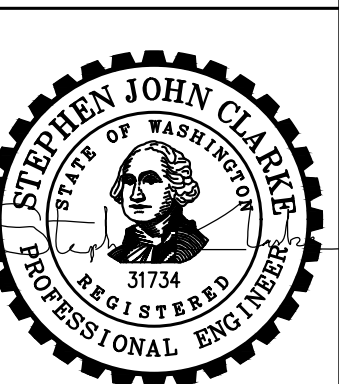
1 STORM DRAIN INLET PROTECTION
NOT TO SCALE



PLACEMENT OF STRAW WATTLE

CROSS SECTION A-A

3 STRAW WATTLE DAM
NOT TO SCALE

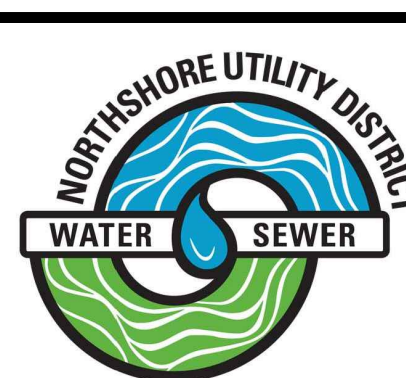


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WARNING
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NORTHSHORE UTILITY DISTRICT

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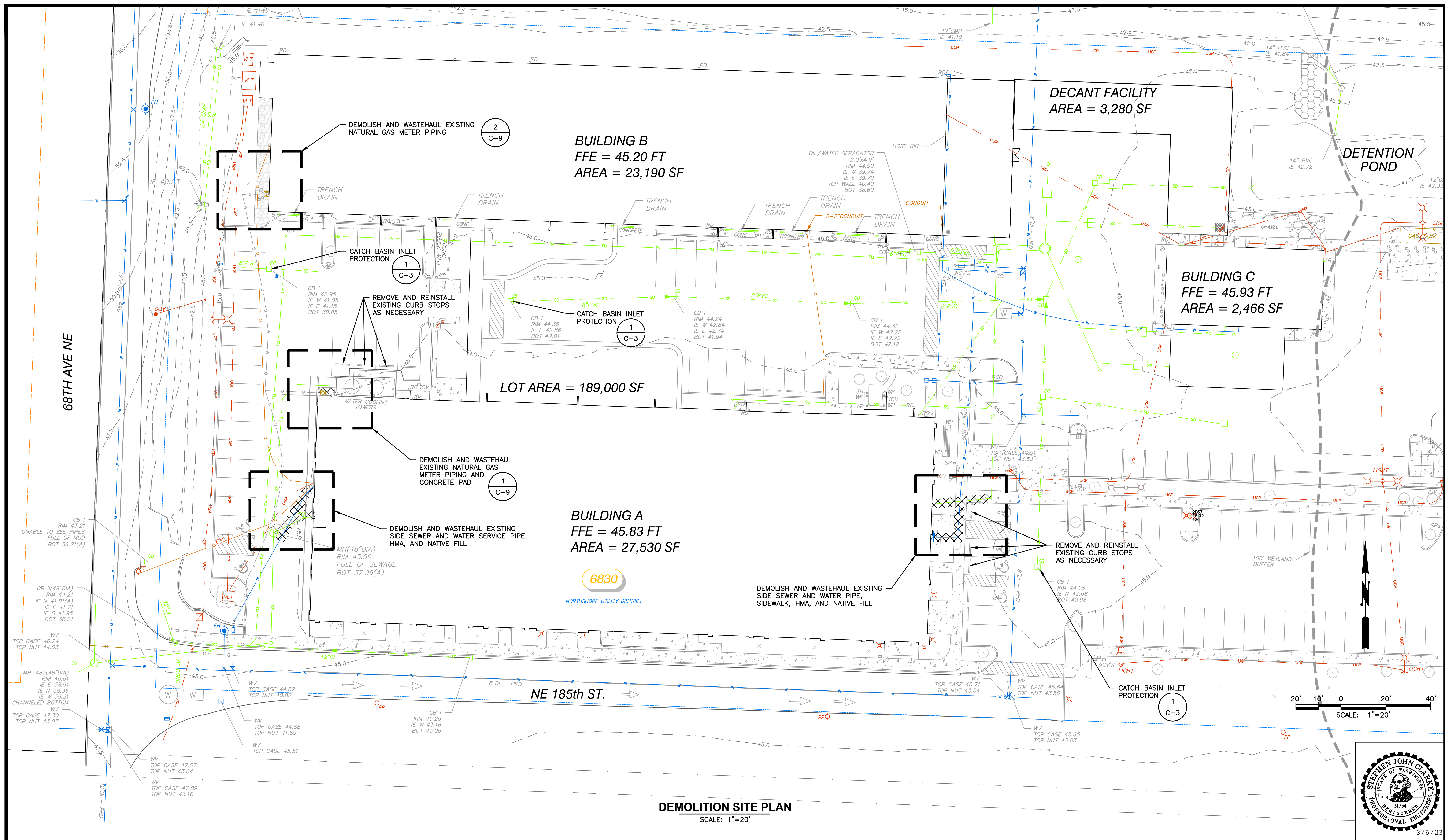
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CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS
SCHEDULE B

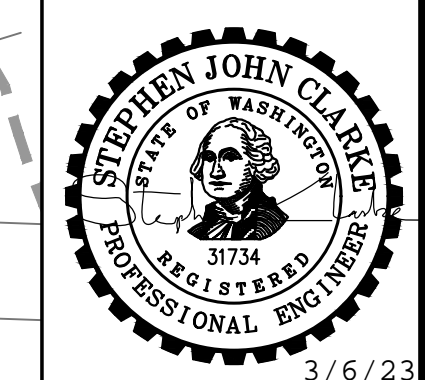
TESC DETAILS

SHEET

C-3
OF 14



DEMOLITION SITE PLAN
SCALE: 1"=20'



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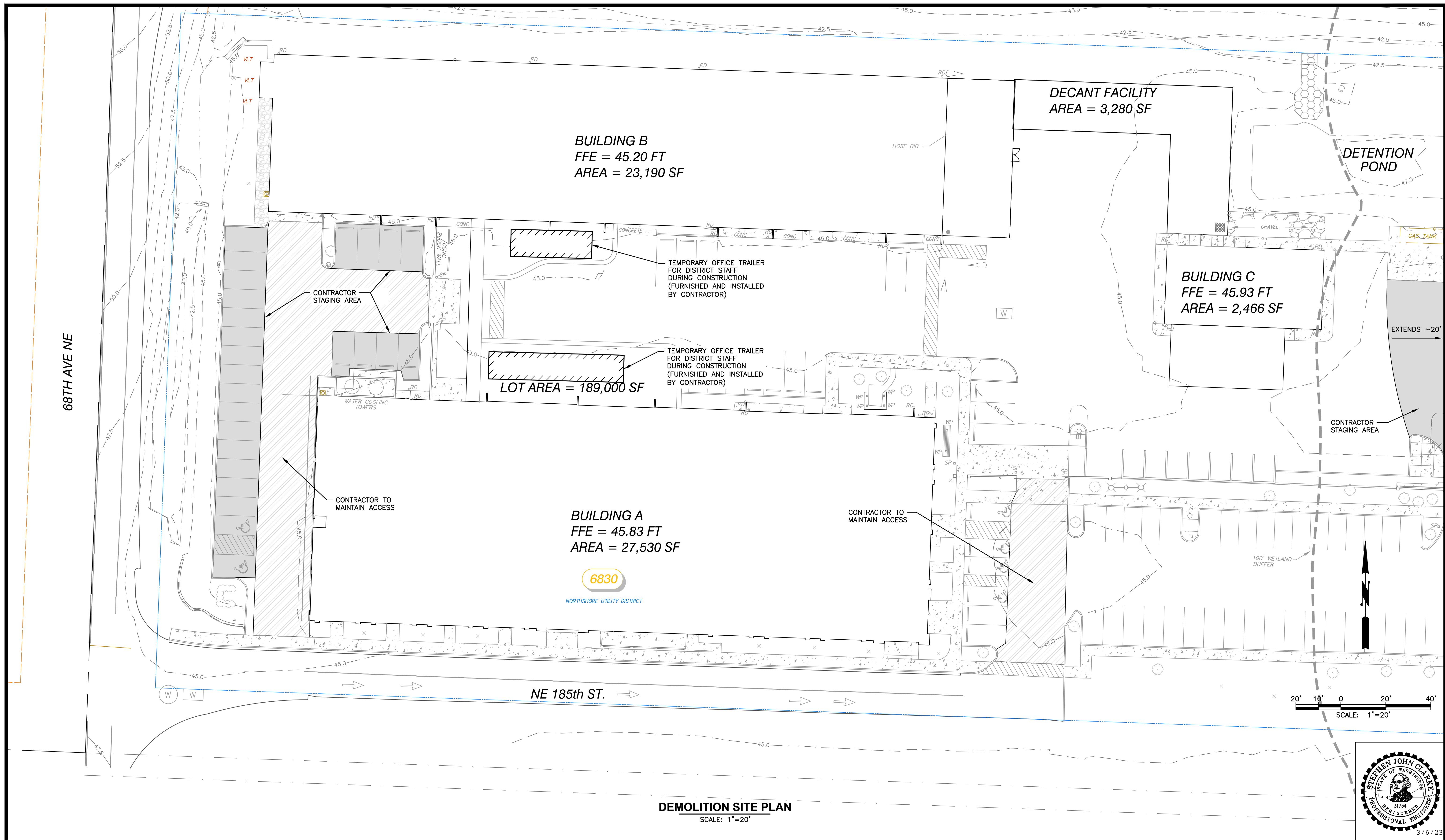


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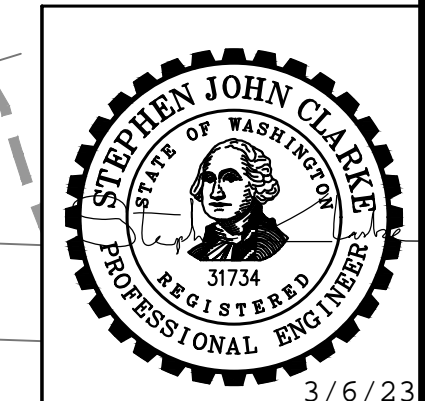


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CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS
SCHEDULE B
DEMOLITION SITE PLAN



DEMOLITION SITE PLAN
SCALE: 1"=20'

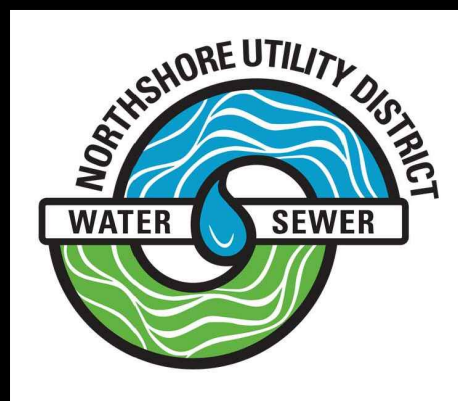


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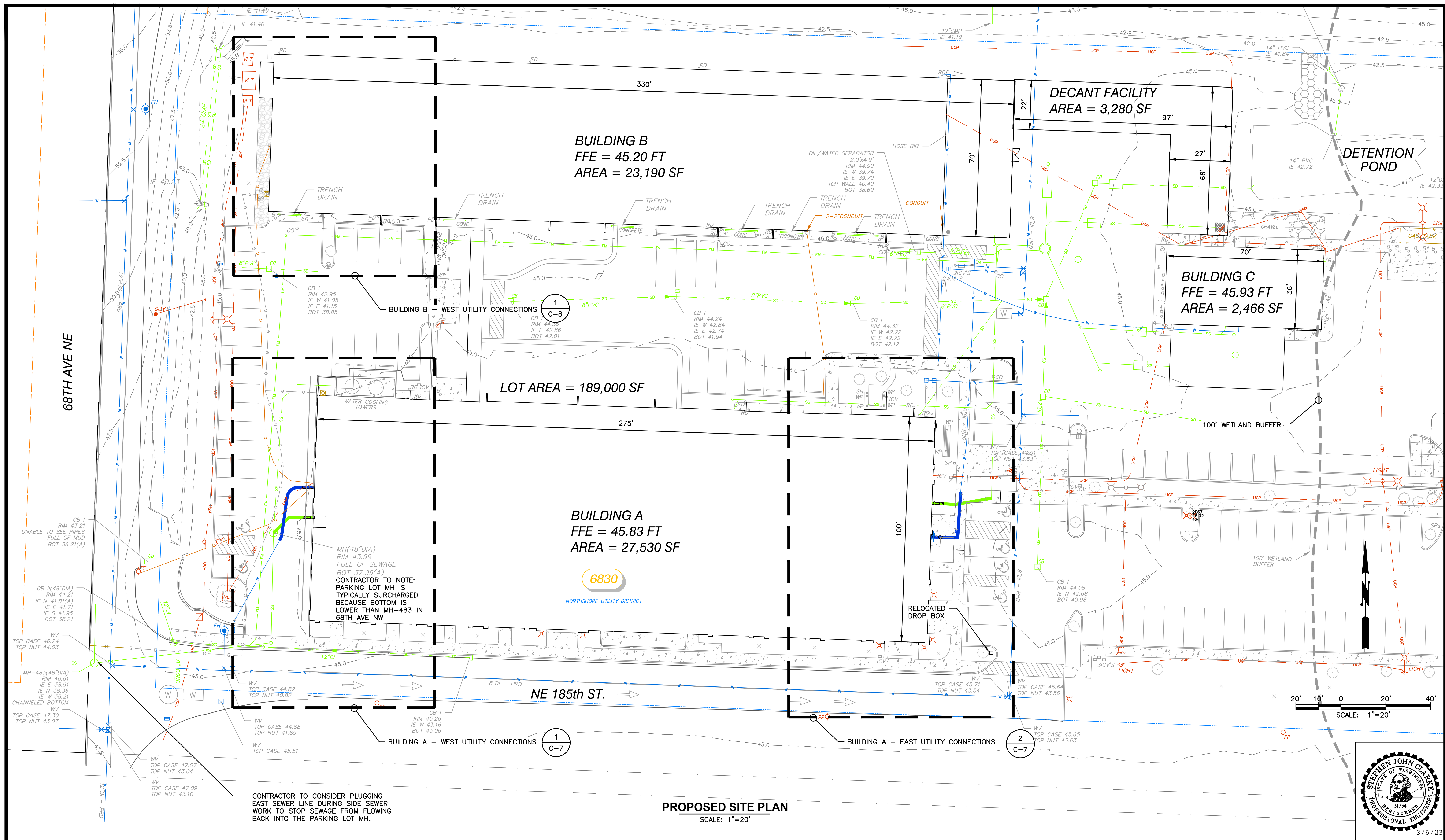
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CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS
SCHEDULE B
CONTRACTOR STAGING AREAS

SHEET
C-5
OF 14



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WARNING

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Gray & Osborne, Inc.
CONSULTING ENGINEERS

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APPROVAL	EBD
DATE	MAR. 2023

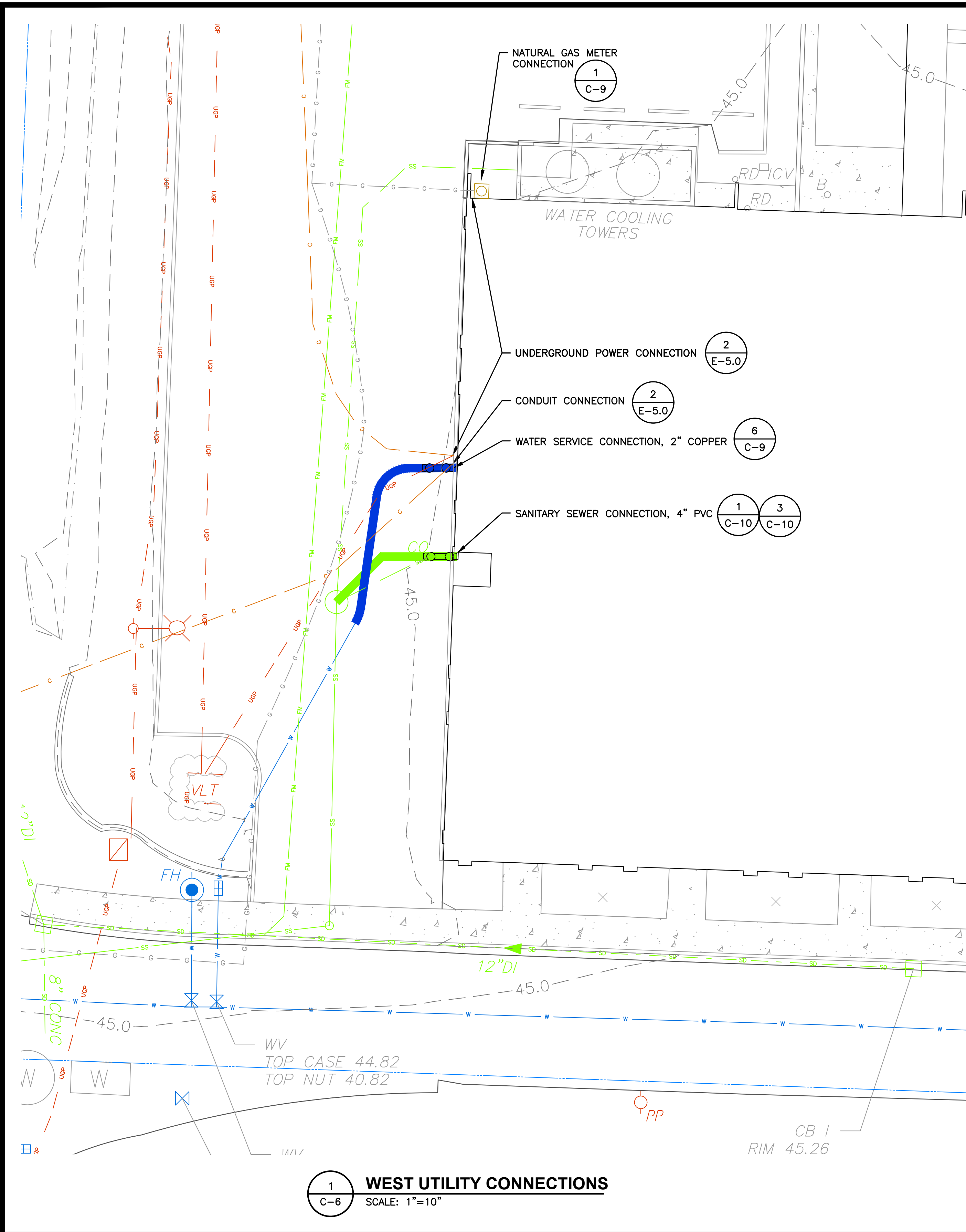
NORTHSHORE UTILITY DISTRICT
WATER SEWER

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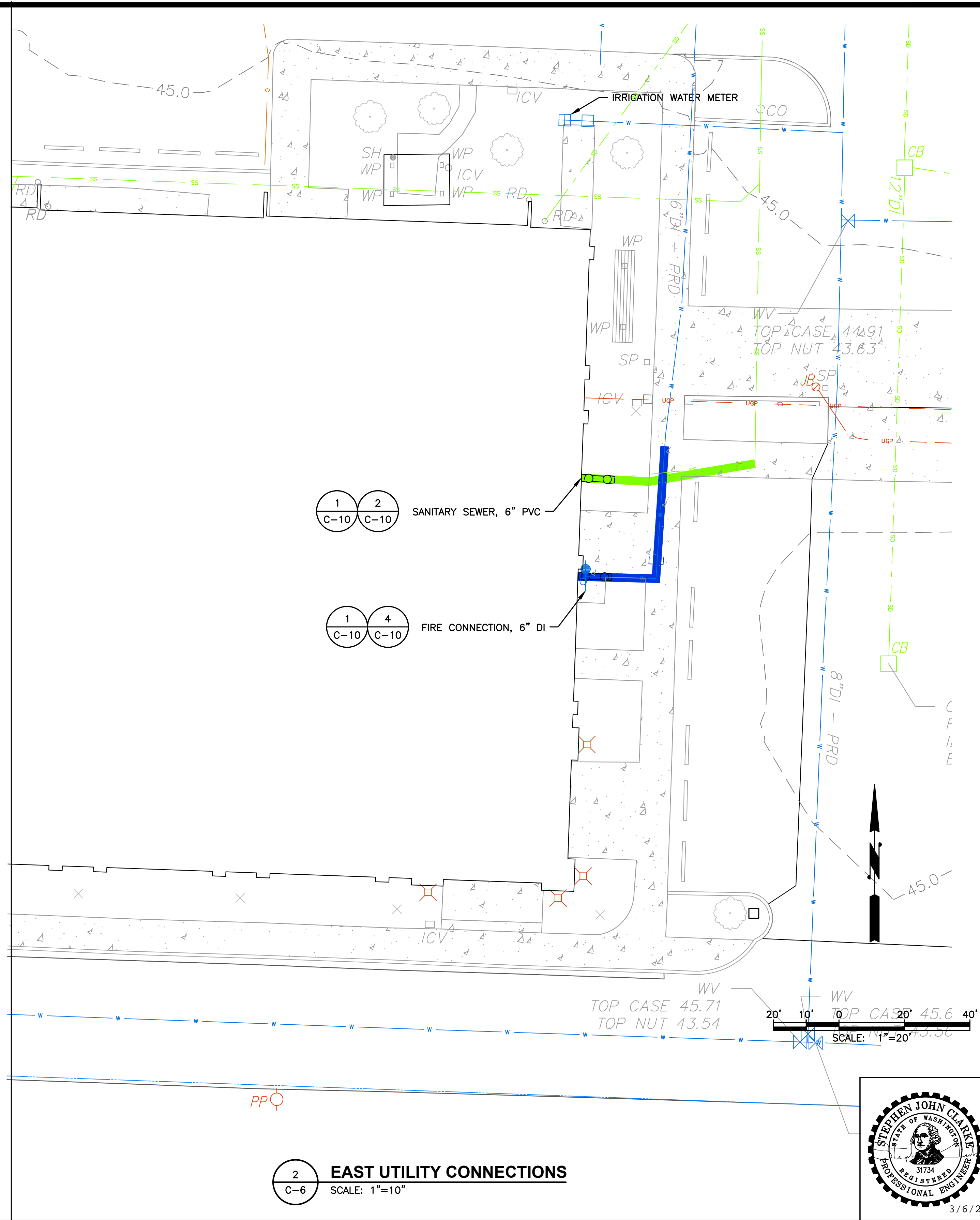
CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS
SCHEDULE B
PROPOSED SITE PLAN

STEPHEN JOHN CLARKE
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
3174
3/6/23

SHEET
C-6
OF 14



1 WEST UTILITY CONNECTIONS
C-6 SCALE: 1"=10"



2 EAST UTILITY CONNECTIONS
C-6 SCALE: 1"=10"

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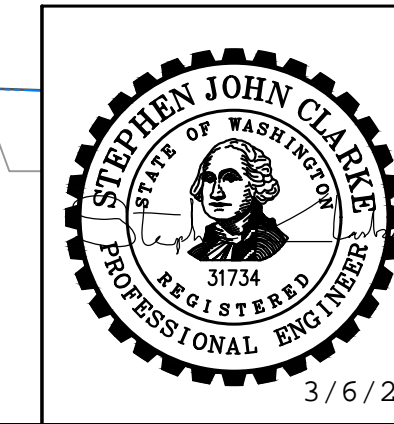
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APPROVAL	EBD
DATE	MAR. 2023

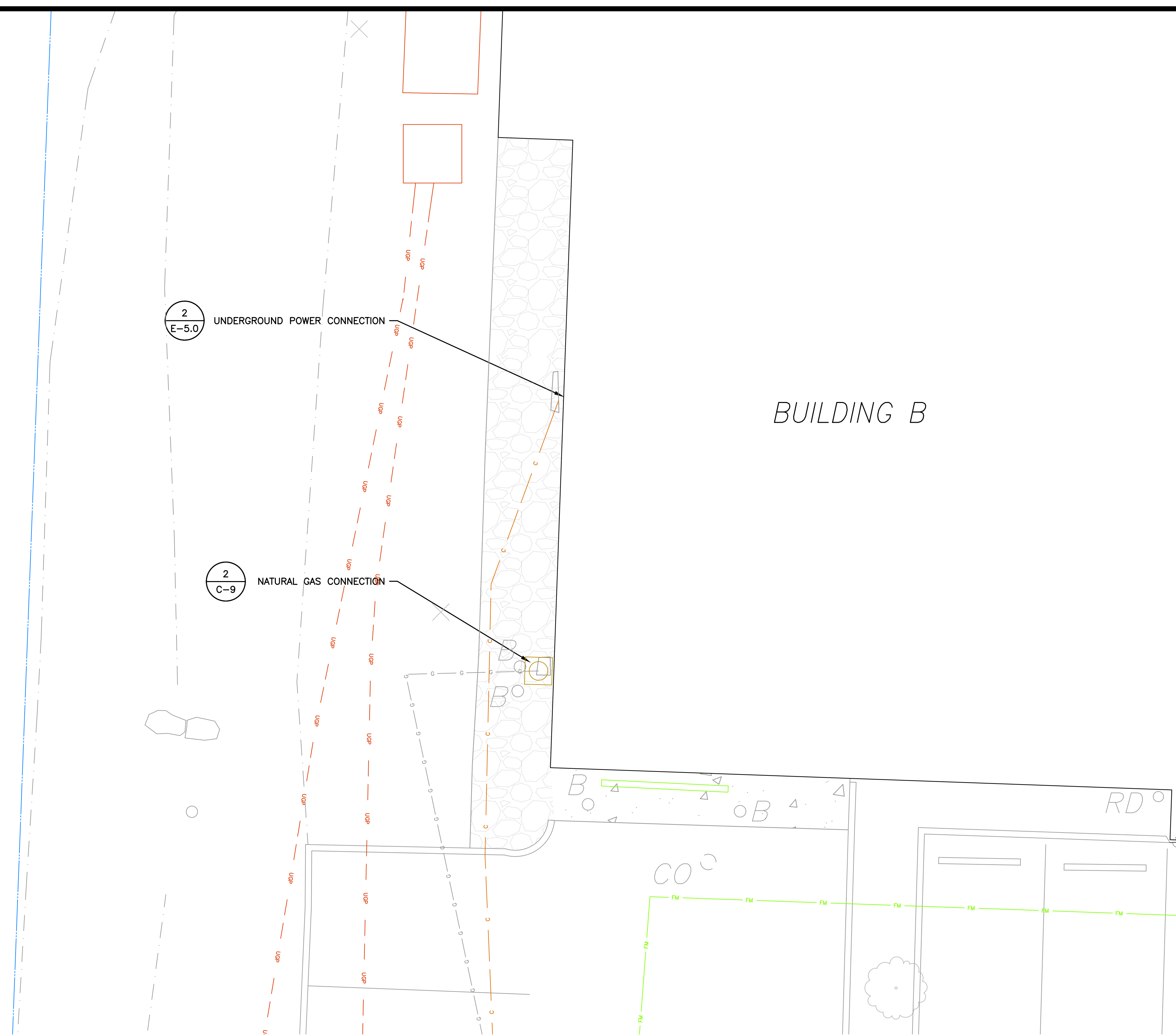
NORTHSHORE UTILITY DISTRICT
WATER SEWER

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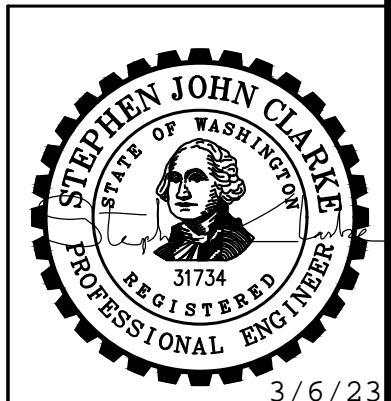
CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS
SCHEDULE B
BUILDING A - EAST AND WEST UTILITY CONNECTIONS

SHEET
C-7
OF 14





1 BUILDING B - WEST UTILITY CONNECTIONS
C-6 SCALE: 1"=10"

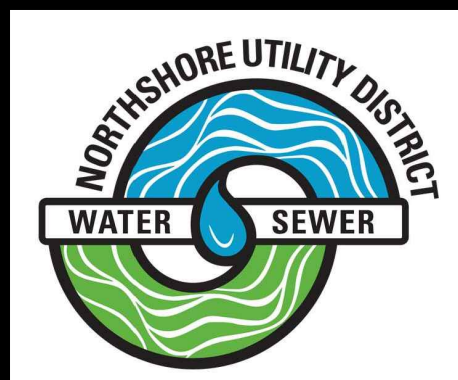


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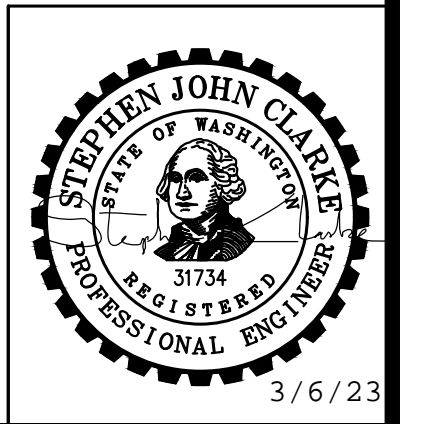
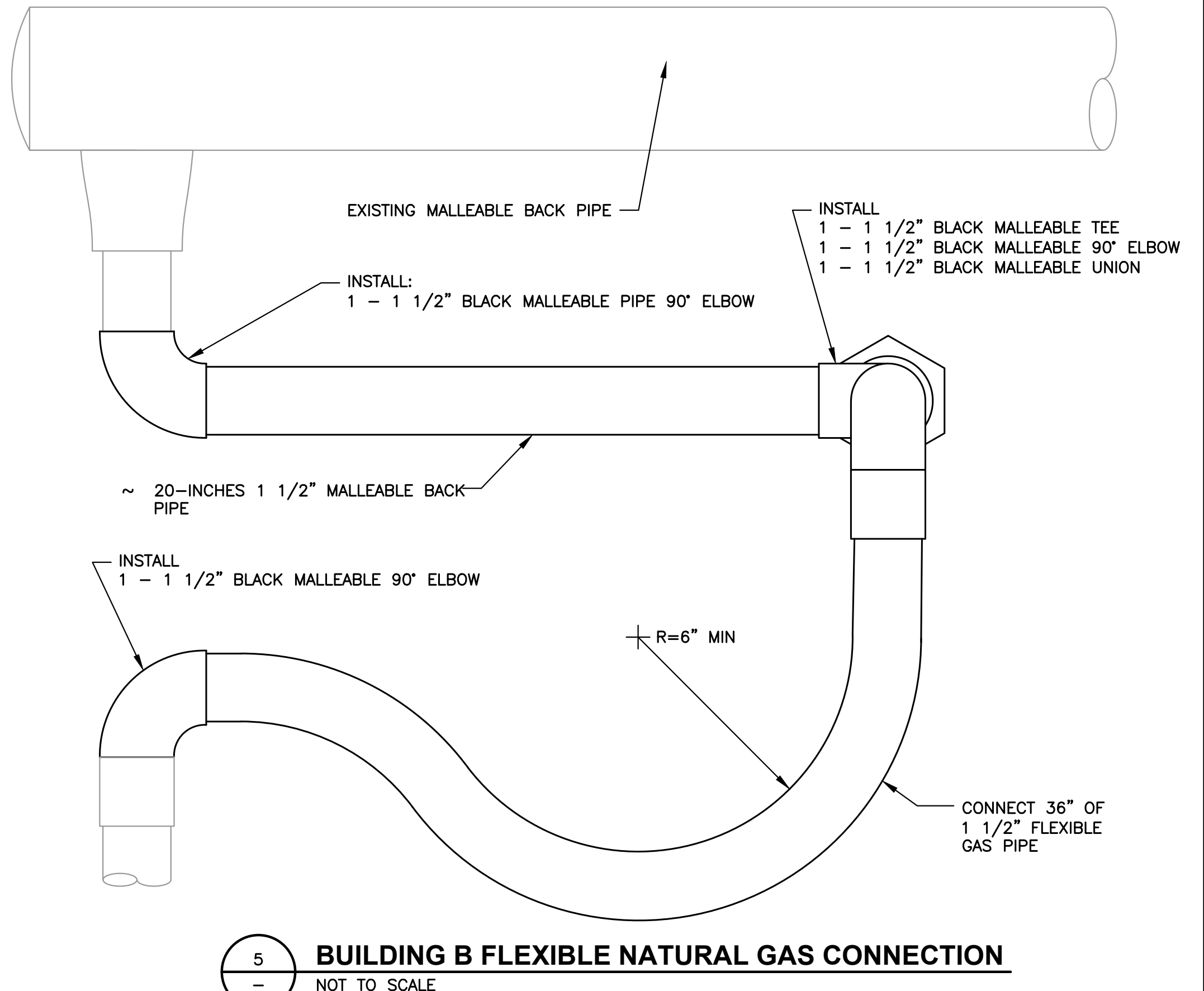
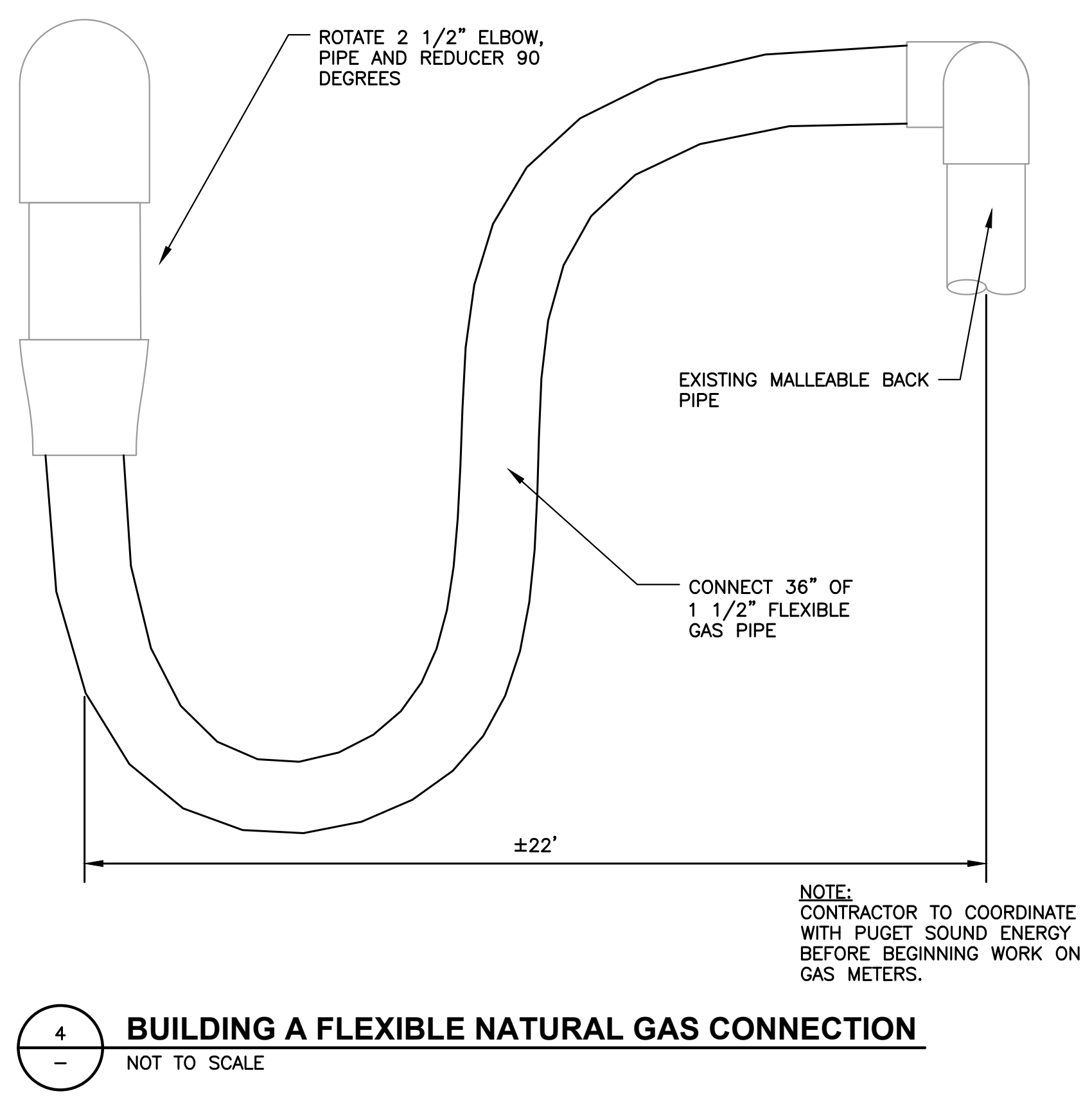
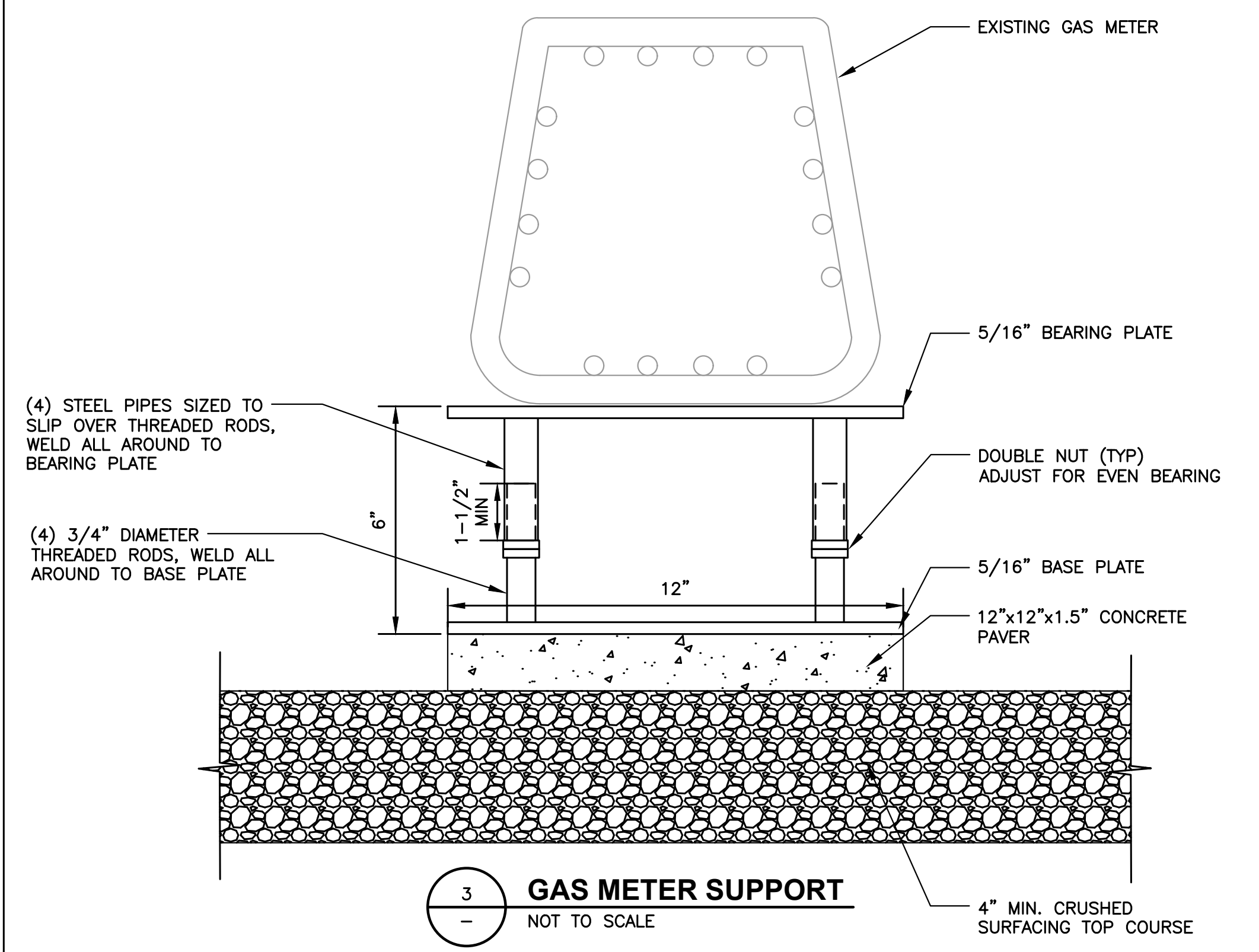
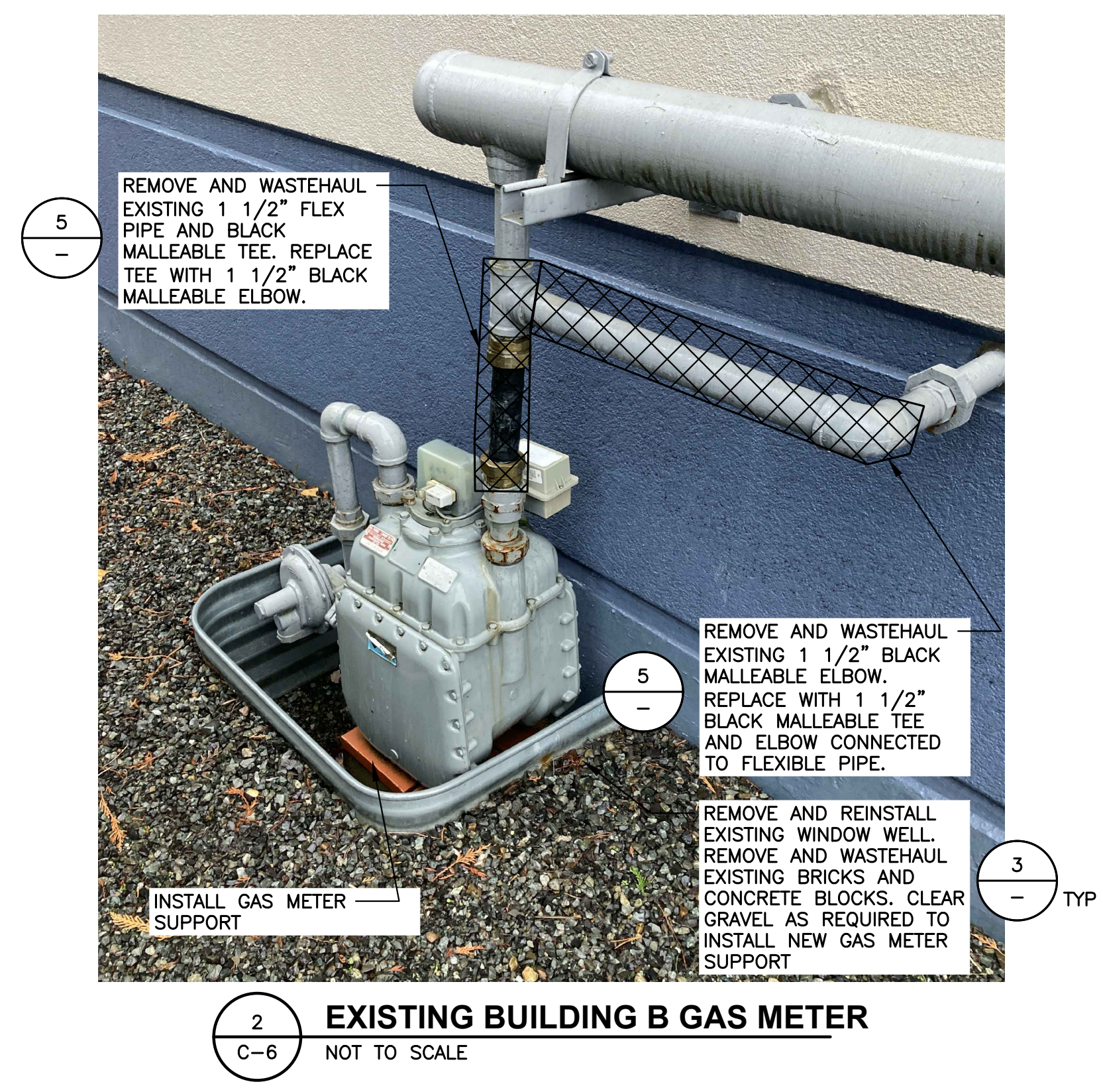
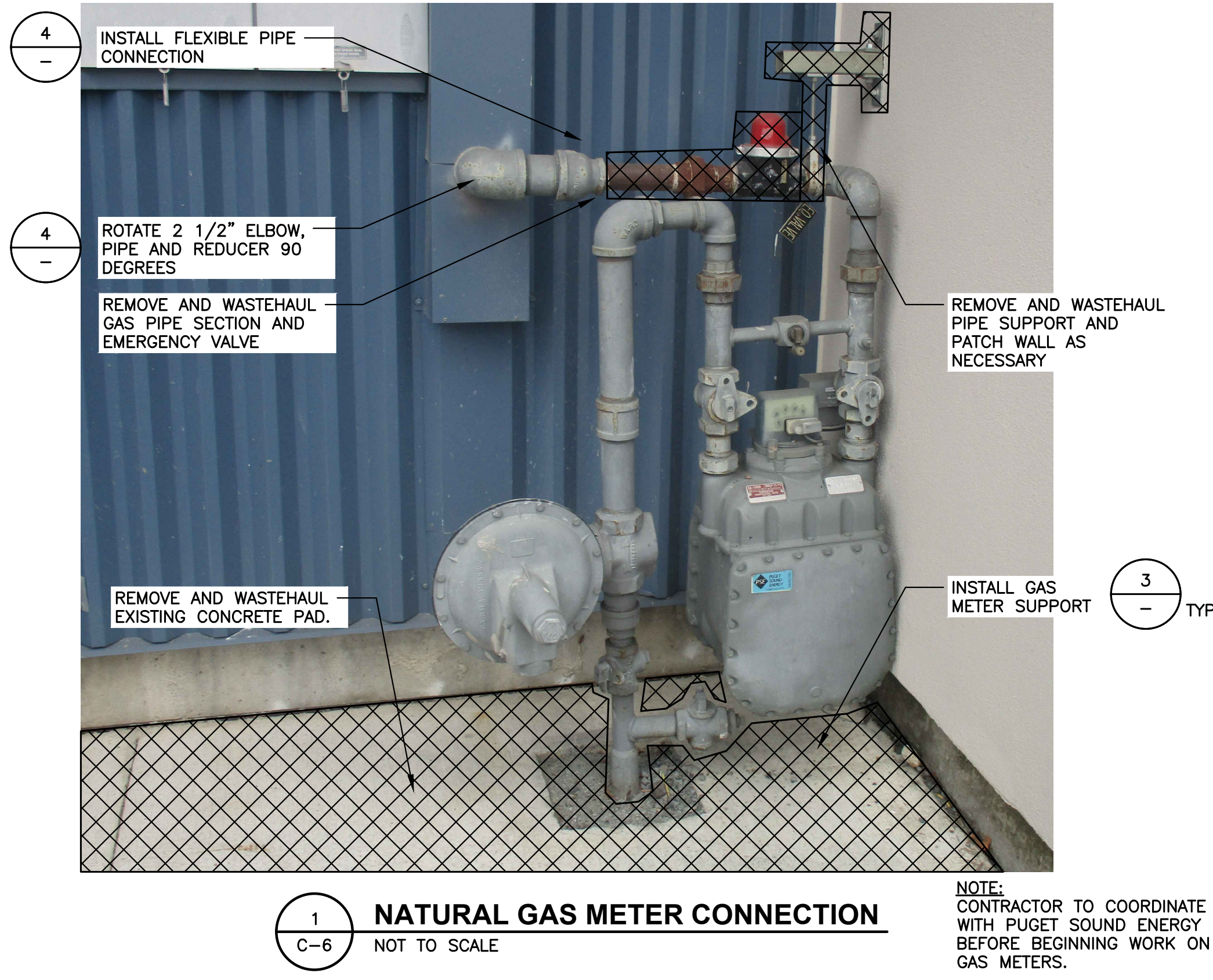
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CONTRACT 2023-01
 BUILDING "A" IMPROVEMENTS
 SCHEDULE B
BUILDING B - WEST UTILITY CONNECTIONS

SHEET
 C-8
 OF 14



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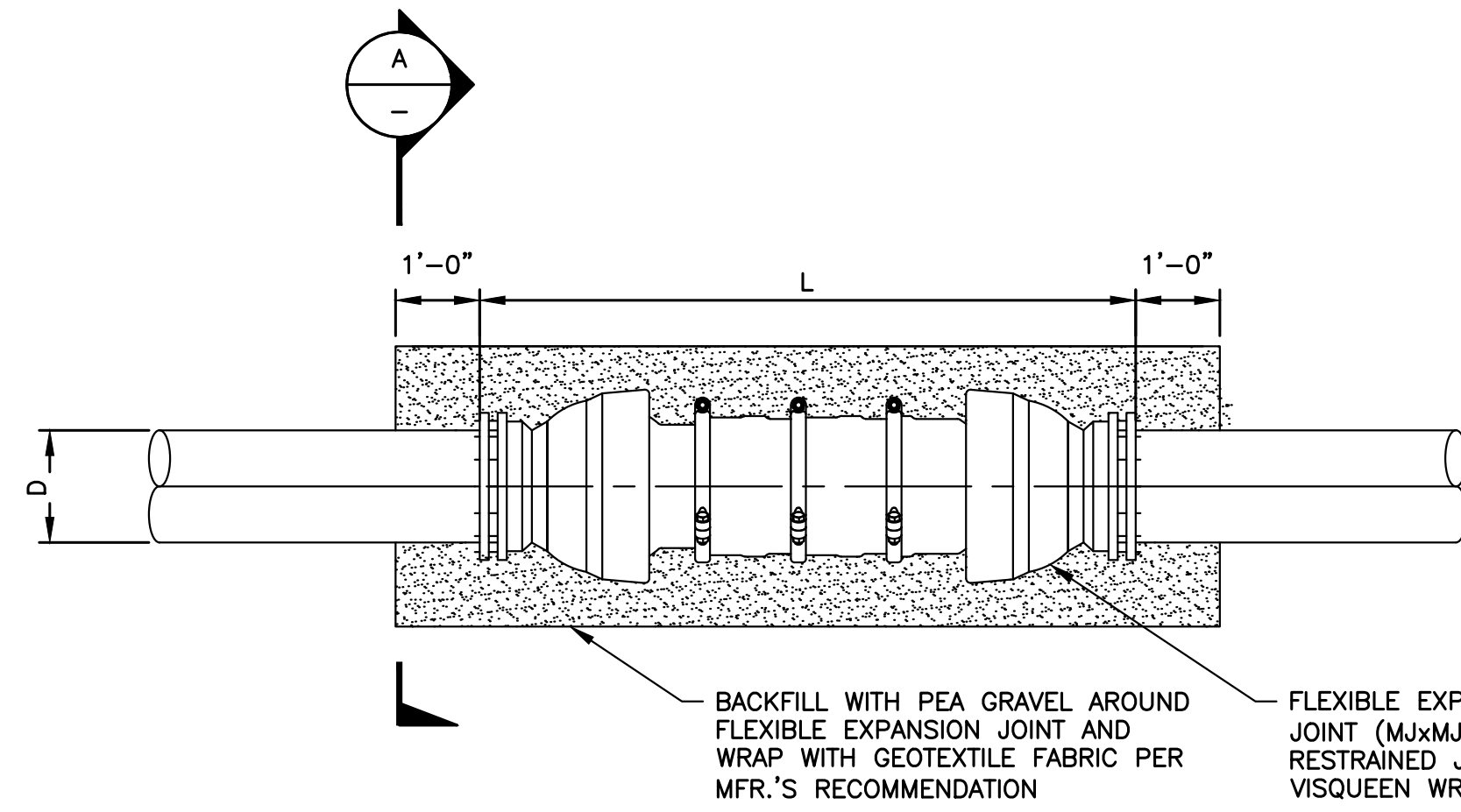
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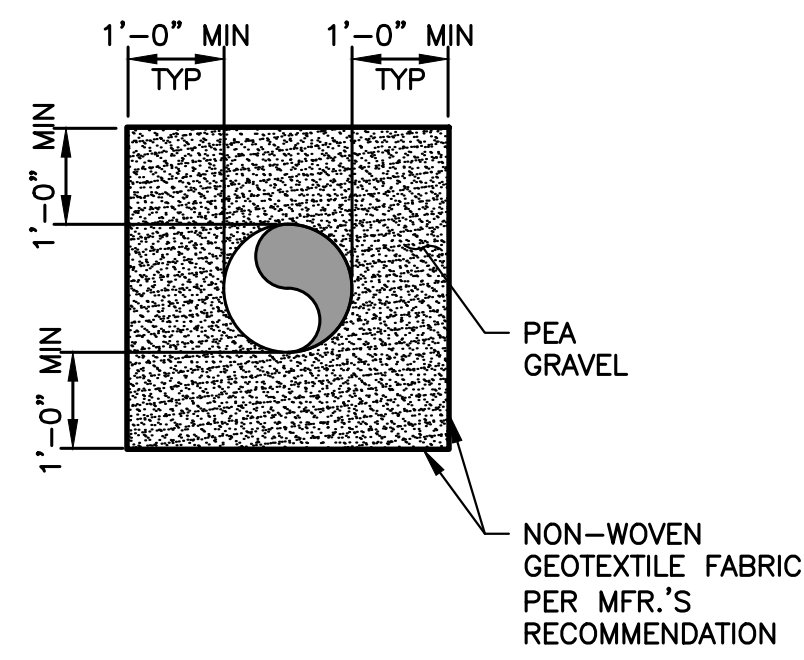
CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS
SCHEDULE B

DETAILS 1

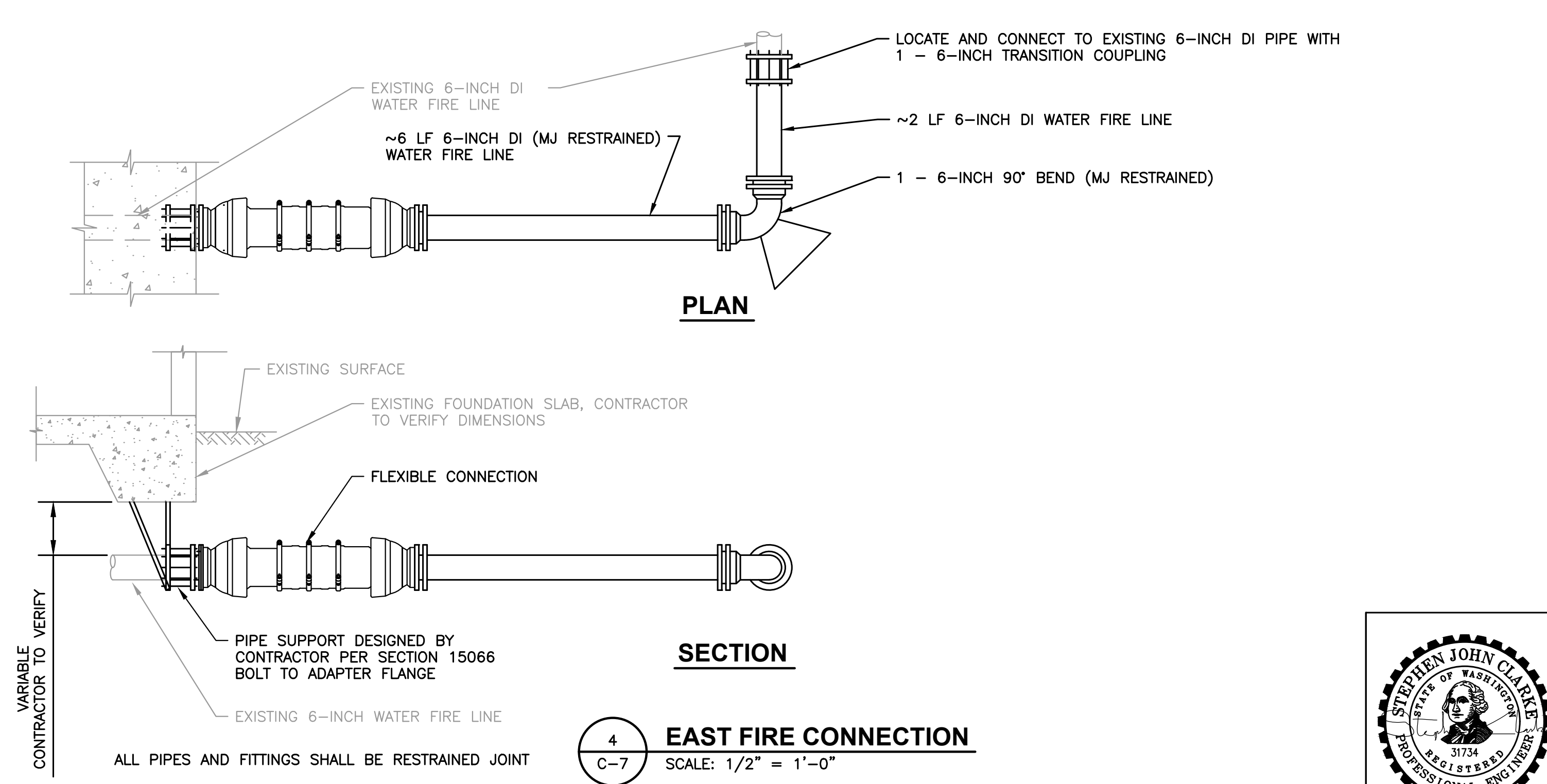
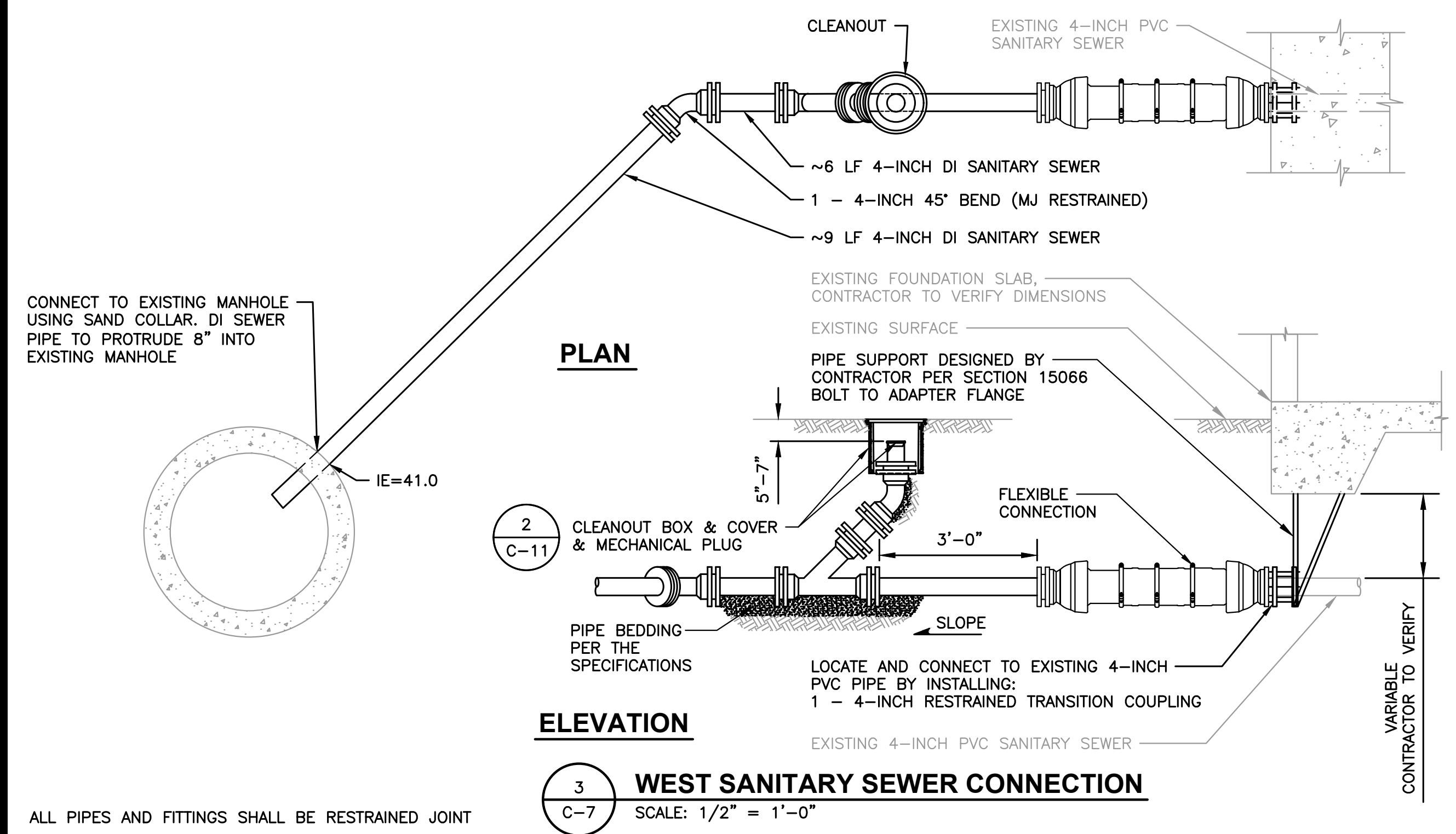
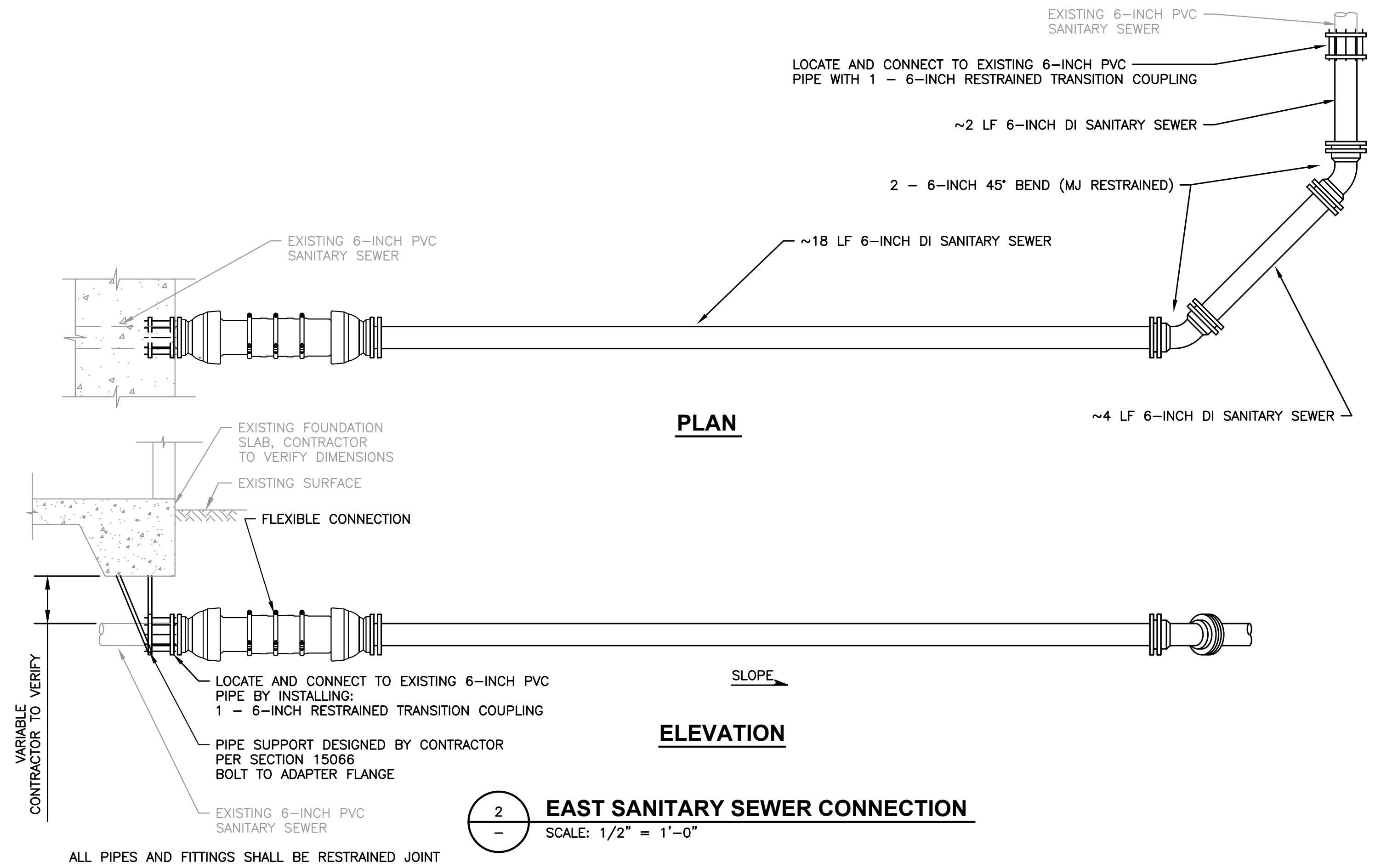
FLEXIBLE CONNECTIONS					
CONNECTION	PIPE MATERIAL	PIPE DIAMETER (D)	LAY LENGTH (L)	DETAIL	FORCED BALANCED
EAST SANITARY SEWER	DI	6-INCH	57.4-INCH	2/C-10	NO
WEST SANITARY SEWER	DI	4-INCH	54.7-INCH	3/C-10	NO
EAST FIRE CONNECTION	DI	6-INCH	57.4-INCH	4/C-10	YES
WEST WATER SERVICE	DI	3-INCH	50.3-INCH	1/C-11	YES



1 FLEXIBLE CONNECTION DETAIL
C-7 NOT TO SCALE



A PEA GRAVEL BEDDING
NOT TO SCALE



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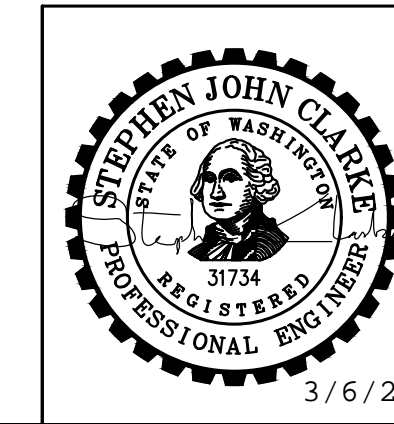
NORTHSHORE UTILITY DISTRICT

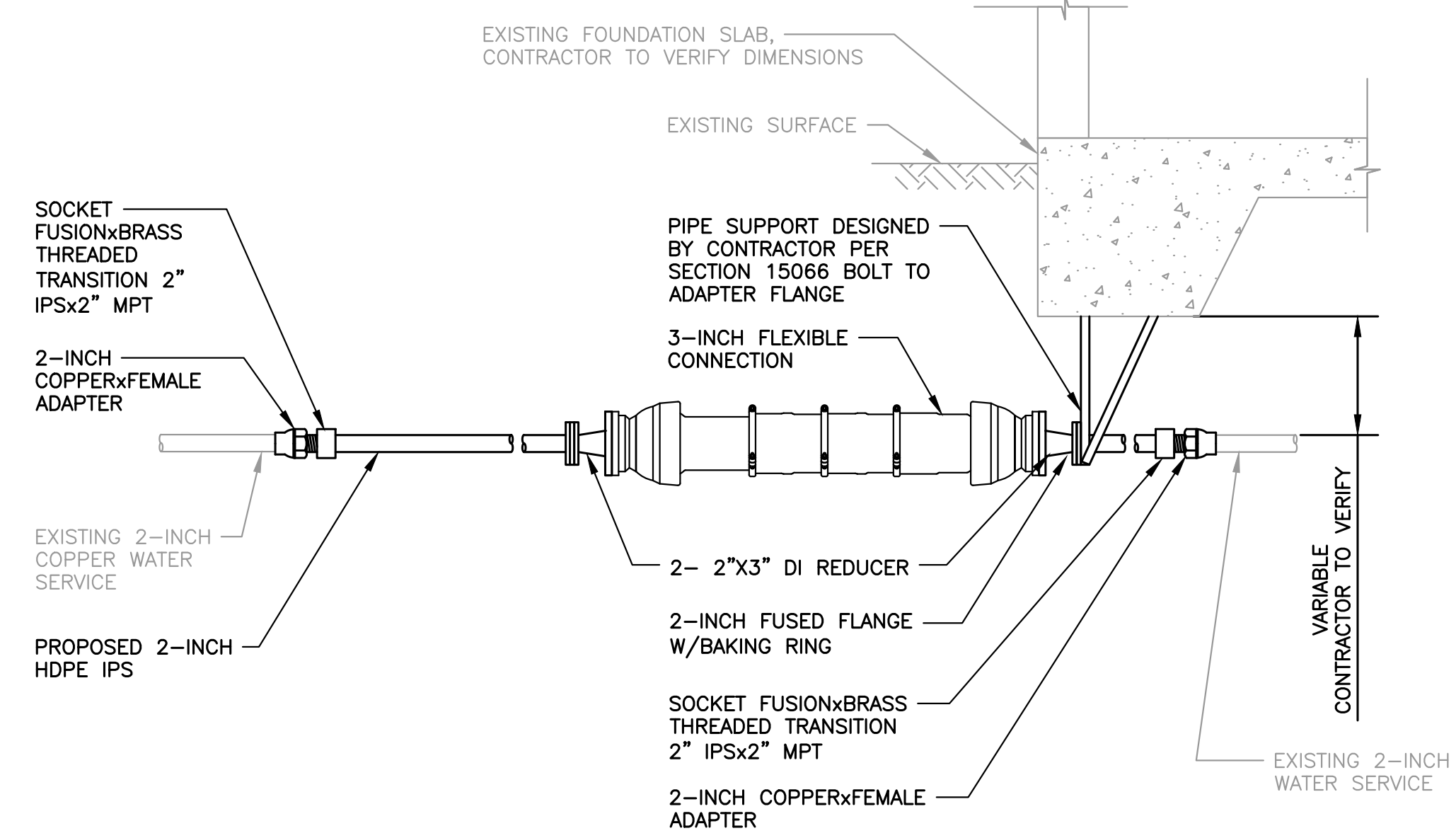
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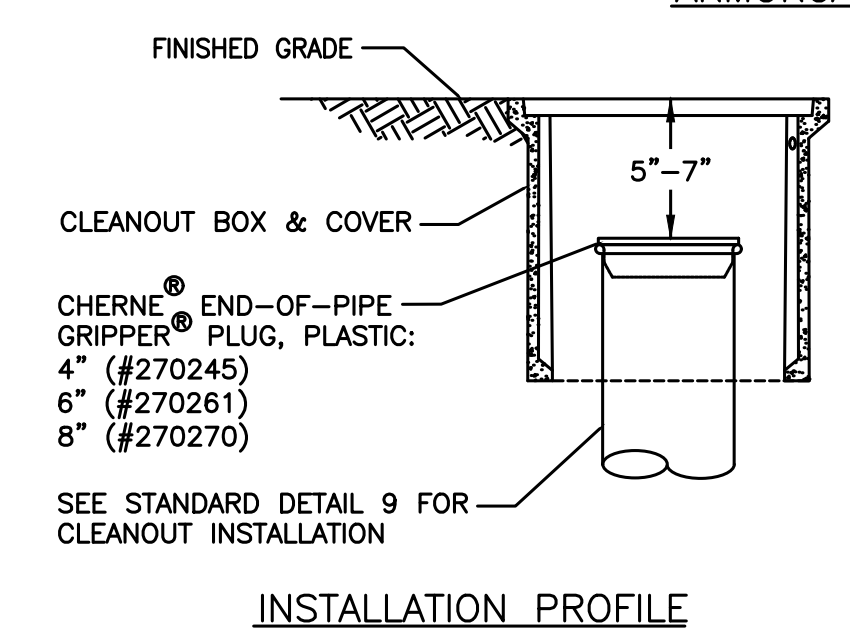
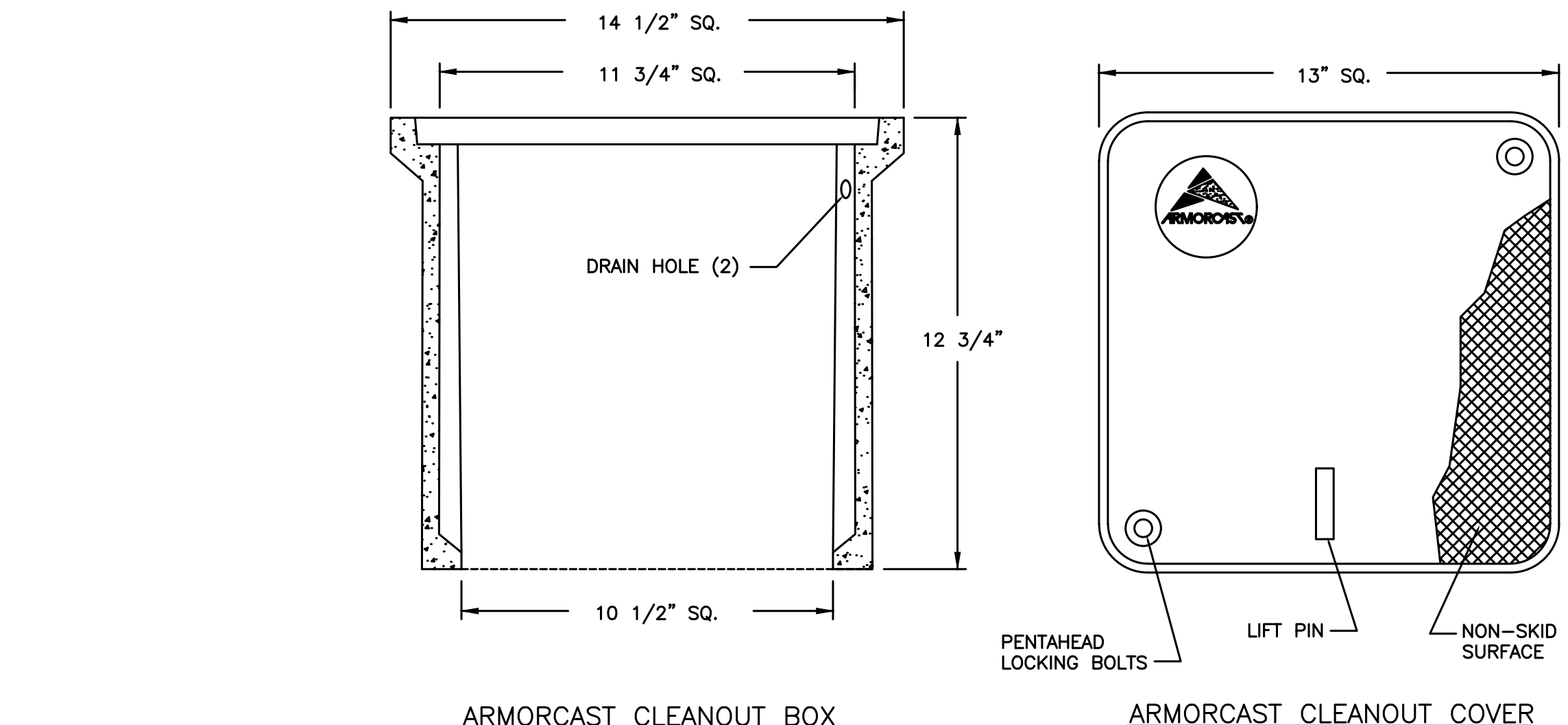
CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS
SCHEDULE B

DETAILS 2





1 WEST WATER SERVICE CONNECTION
NOT TO SCALE



2 CLEANOUT BOX
NOT TO SCALE

- NOTES:**
1. SURFACE CLEANOUTS ARE REQUIRED AT THE R.O.W., THE BUILDING CONNECTION IN HARDSCAPE (SUCH AS SIDEWALKS, DRIVEWAYS, AND PATIOS), AND EVERY 100 FEET. THE SIDE SEWER CONNECTION AT THE MAIN LINE STUB SHALL BE A TWO-WAY CLEANOUT TEST TEE. SEE STANDARD DETAILS 7 & 8a.
 2. CLEANOUT BOXES AND COVERS LOCATED AT PROPERTY LINE AND IN HARDSCAPES SHALL BE ARMORCAST POLYMER CONCRETE BOX ASSEMBLY, PART #A6001423TA, H2O RATED WITH PENTAHEAD LOCKING BOLTS AND "CO" STAMPED ON COVER.
 3. CLEANOUT BOXES AND COVERS LOCATED IN LANDSCAPE AREA'S WITHIN THE PROPERTY MAY BE A MINIMUM 6" ROUND OR 6" SQUARE LANDSCAPE/IRRIGATION BOX EQUIVALENT TO A CARSON TRUSST 708, NDS 107BC, OR NDS D1000-SG.

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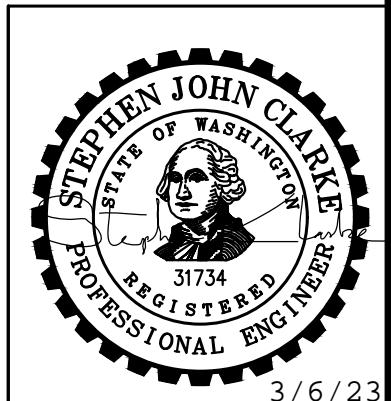


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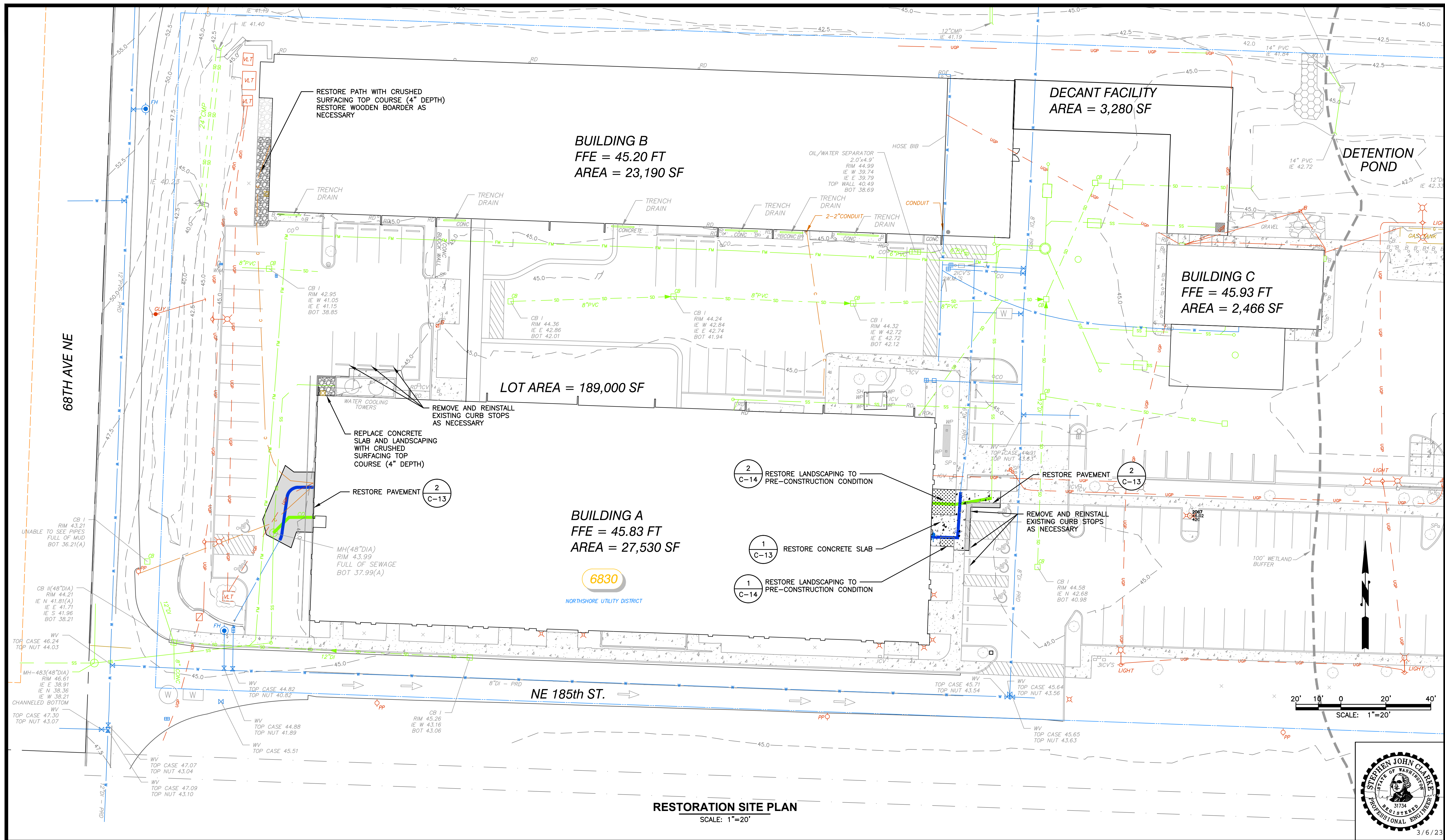


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CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS
SCHEDULE B
DETAILS 3



SHEET
C-11
OF 14



RESTORATION SITE PLAN
SCALE: 1"=20'

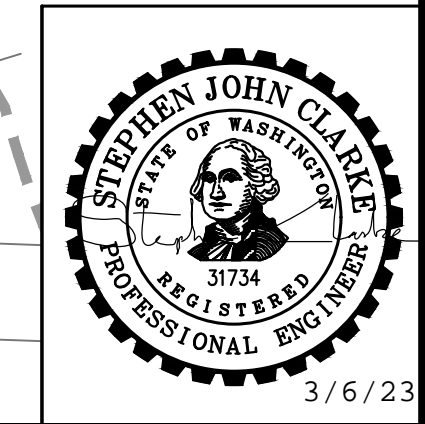
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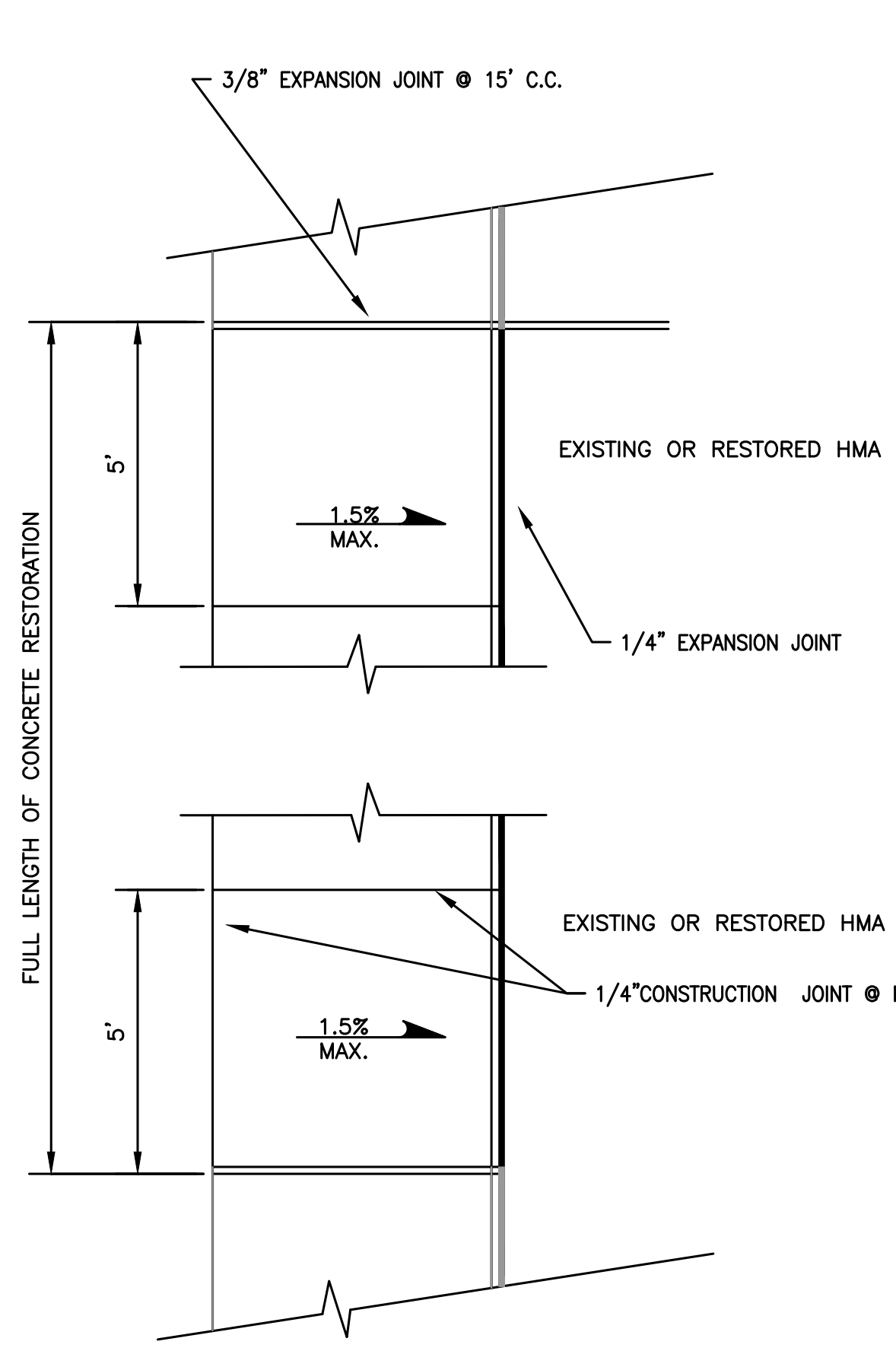
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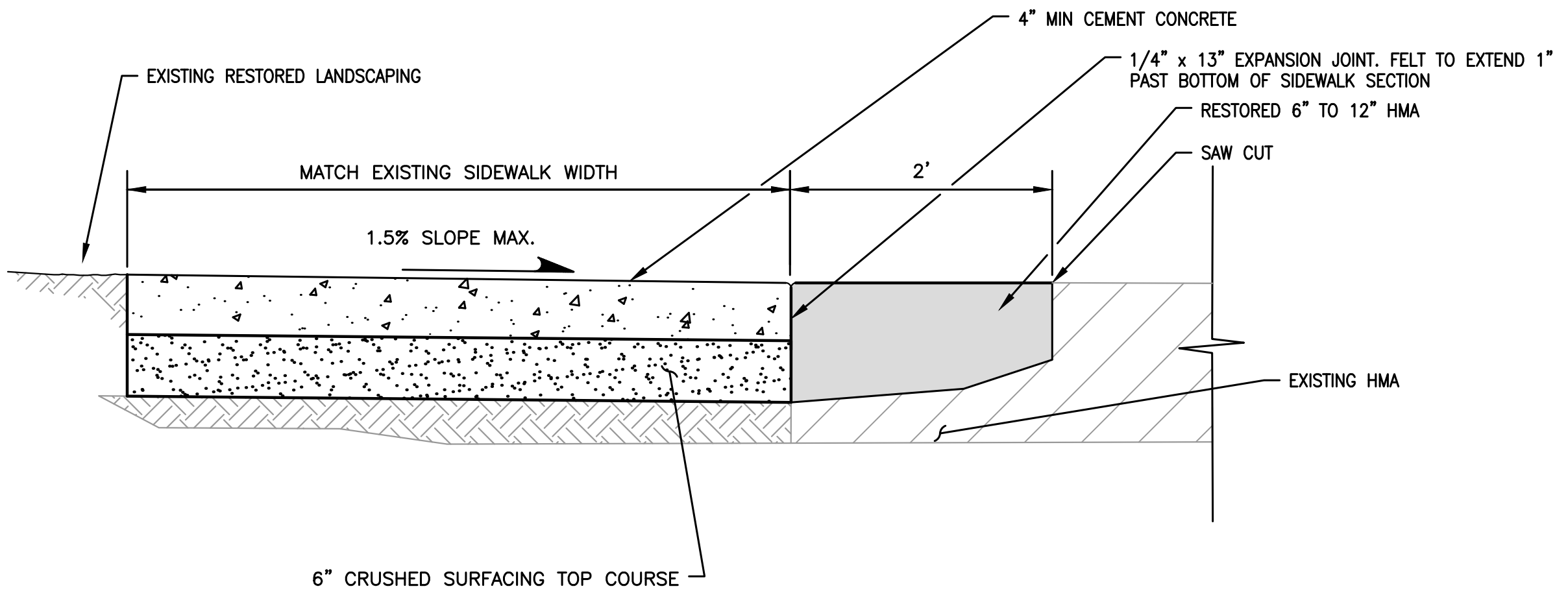
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CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS
SCHEDULE B
RESTORATION SITE PLAN





PLAN

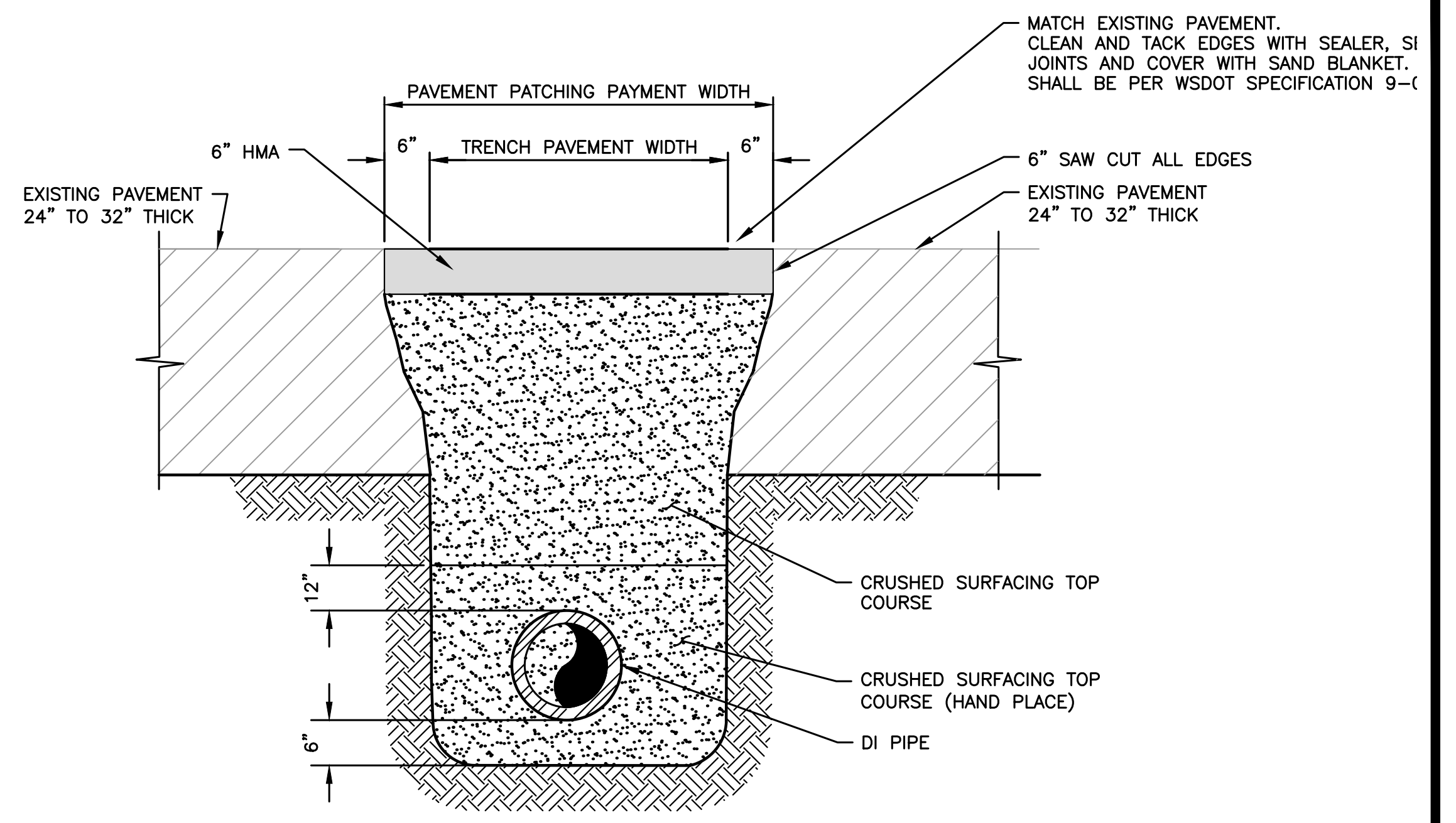


SECTION

NOTES:

1. THRU JOINTS AND CONTRACTION JOINTS SHALL BE AS SHOWN. JOINTS SHALL BE FLUSH WITH THE FINISHED SURFACE.
2. PREMOLDED JOINT FILLER SHALL BE ASPHALT SATURATED FELT OR PAPER, FULL DEPTH OF SIDEWALK.
3. FORMS SHALL BE EITHER WOOD OR STEEL AND SHALL MEET ALL REQUIREMENTS OF THESE SPECIFICATIONS.
4. CEMENT CONCRETE SHALL BE AIR-ENTRAINED CLASS 3000 PSI, EXCEPT CLASS 4000 SHALL BE USED AT DRIVEWAY CROSSINGS.

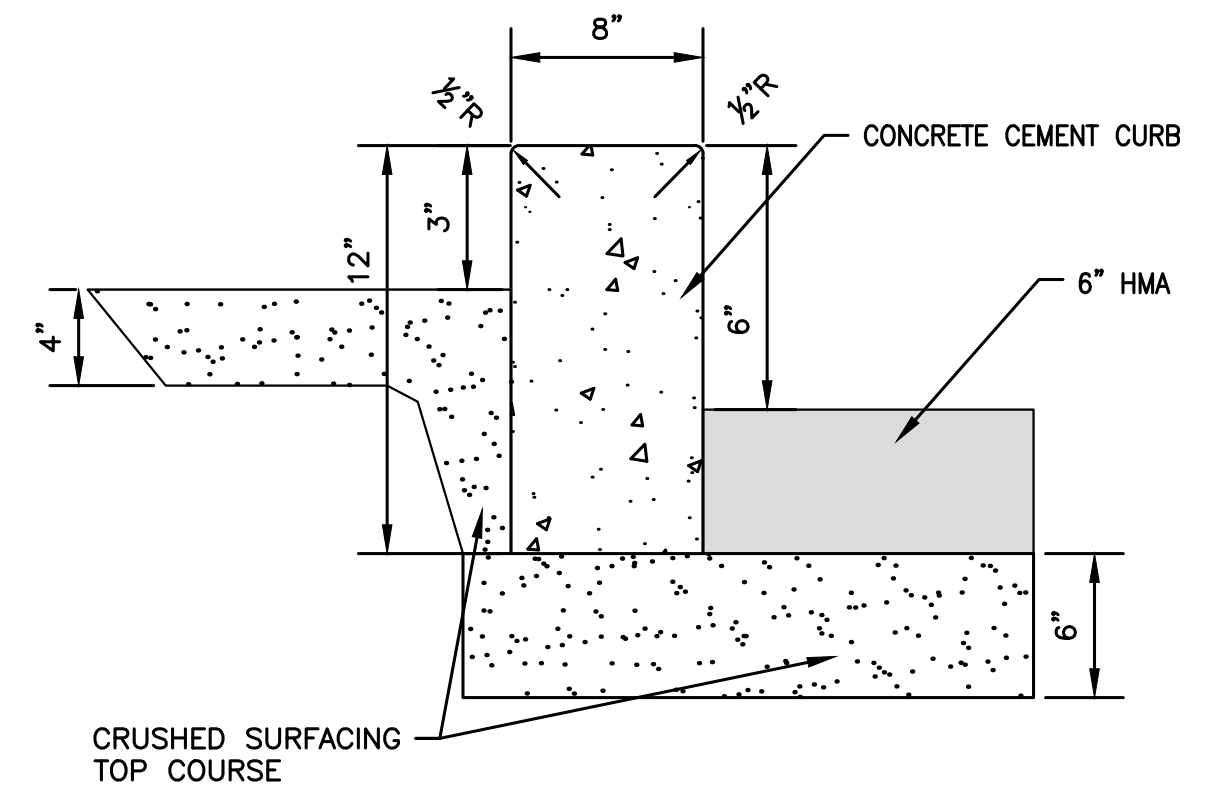
1 SIDEWALK RESTORATION
C-12 NOT TO SCALE



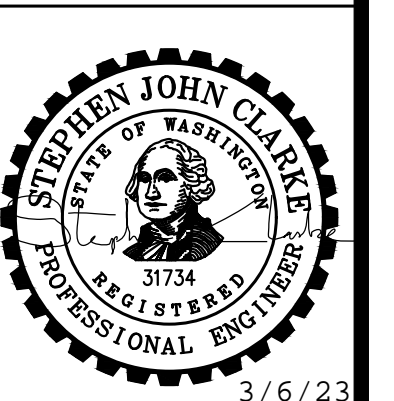
NOTES:

1. PATCH SHALL BE MACHINE ROLLED FLUSH WITH EXISTING PAVEMENT AND SHALL BE PLACED PER SEC. 5-04 OF THE WSDOT SPECIFICATIONS.
2. PRIOR TO PAVEMENT PATCH, CONTRACTOR SHALL RE-CUT EDGES FOR CLEAN, STRAIGHT LINES WHERE NECESSARY. HOWEVER, FOLLOWING THE RE-CUT EDGES, THE PAYMENT LIMITS SHALL BE TO THOSE SHOWN ON THE PLANS.
3. HMA SHALL BE CLASS 1/2" PG 58H-22.

2 PAVEMENT RESTORATION
C-12 NOT TO SCALE



3 CURB RESTORATION DETAIL
C-12 NOT TO SCALE

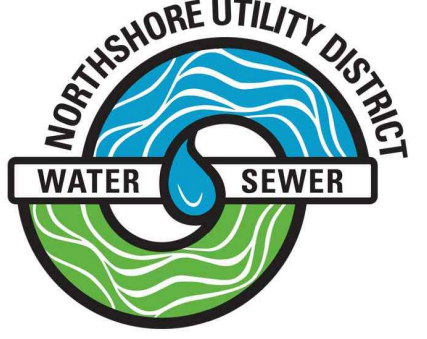


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CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS
SCHEDULE B
RESTORATION DETAILS 1

SHEET
C-13
OF 14

LANDSCAPING LEGEND		
REFERENCE NUMBER	COUNT	PLANT TYPE
①	5	VIBURNUM DAVIDII
②	1	ESCALLONIA X EXONIENSIS
③	2	POLYSTICHUM MUNITUM
④	4	RUBUS CALCINOIDES
⑤	1	RHODODENDRON OCCIDENTALE
⑥	2	RHODODENDRON SP
⑦	2	NANDINA DOMESTICA
⑧	5	OPHIPOGON PLANISCAPUS



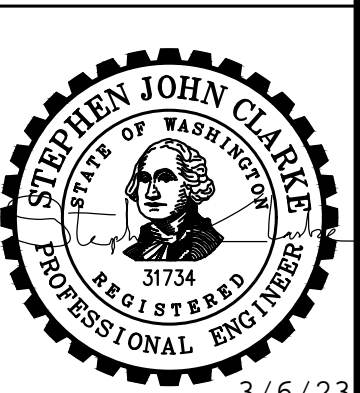
① EAST WATER LINE LANDSCAPING RESTORATION
C-12 NOT TO SCALE



② EAST SIDE SEWER LANDSCAPING RESTORATION
C-12 NOT TO SCALE

RESTORATION NOTES:

- CONTRACTOR TO REMOVE AND REINSTALL LARGE ROCKS, RIVER BED ROCKS, LIGHTS, AND SCULPTURES.
- ALL PLANTS TO BE REPLANTED IN KIND IN AS SHOWN IN THESE PLANS AND IN SECTION 02950 OF THE SPECIFICATIONS.



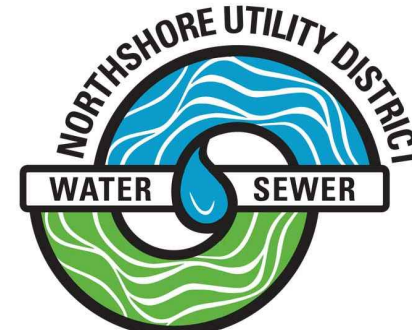
3/6/23

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CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS
SCHEDULE B
RESTORATION DETAILS 2

SHEET

C-14
OF 14

ROOM MATERIAL AND FINISH SCHEDULE

ROOM NAME	FLOOR		WALLS								CEILING	
			NORTH		SOUTH		EAST		WEST			
	MATL	FINISH	MATL	FINISH	MATL	FINISH	MATL	FINISH	MATL	FINISH	MATL	FINISH
LOBBY 01	TILE	WAX	GWB	PTS	GWB	PTS	GWB	PTS	GWB	PTS	ACP	FF
STORAGE 01A	RES	N/A	GWB	PTS	GWB	PTS	GWB	PTS	GWB	PTS	GWB	PTS
RECEPTION 02	CAR	N/A	GWB	PTS	GWB	PTS	GWB	PTS	GWB	PTS	ACP	FF
CONFERENCE 03	CAR	N/A	GWB	PTS	GWB	PTS	GWB	PTS	GWB	PTS	ACP	FF
MECHANICAL 09	CONC	EXIST	GWB(E)	PTS	GWB(E)	PTS	GWB	PTS	GWB(E)	PTS	GWB(E)	PTS
CONTRACTOR COUNTER 10	CAR	N/A	GWB	PTS	GWB	PTS	GWB	PTS	GWB	PTS	ACP	FF
PERMIT TECH. 10A	CAR	N/A	GWB	PTS	GWB	PTS	GWB	PTS	GWB	PTS	ACP	FF
HALL 11	CAR	N/A	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	ACP	FF
BATHROOM 12	TILE	WAX	GWB(E) TILE	PTS WAX	GWB(E) TILE	PTS WAX	GWB TILE	PTS WAX	GWB(E) TILE	PTS WAX	GWB	PTS
BATHROOM 13	TILE	WAX	GWB(E) TILE	PTS WAX	GWB(E) TILE	PTS WAX	GWB(E) TILE	PTS WAX	GWB(E) TILE	PTS WAX	GWB(E)	PTS
HALL 14	CAR	N/A	GWB	PTS	GWB	PTS	GWB	PTS	GWB	PTS	ACP	FF
OFFICE 15	CAR	N/A	GWB(E)	PTS	GWB(E)	PTS	GWB	PTS	GWB(E)	PTS	EXIST	N/A
CONFERENCE 16	CAR	N/A	GWB	PTS	GWB(E)	PTS	GWB	PTS	GWB(E)	PTS	ACP	FF
STAFF 17	CAR	N/A	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	ACP	FF
OFFICE 18	EXIST	N/A	GWB(E)	PTS	GWB(E)	PTS	GWB	PTS	GWB(E)	PTS	EXIST	N/A
OFFICE 19	CAR	N/A	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	GWB	PTS	ACP	FF
OFFICE 20	CAR	N/A	GWB(E)	PTS	GWB(E)	PTS	GWB	PTS	GWB(E)	PTS	ACP	FF
OFFICE 22	CAR	N/A	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	ACP	FF
INSPECTORS 23	CAR	N/A	GWB(E)	PTS	GWB	PTS	GWB(E)	PTS	GWB(E)	PTS	ACP	FF
OFFICE 24	CAR	N/A	GWB(E)	PTS	GWB(E)	PTS	GWB	PTS	GWB(E)	PTS	ACP	FF
OFFICE 25	CAR	N/A	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	ACP	FF
HALL 26	CAR	N/A	GWB	PTS	GWB	PTS	GWB	PTS	GWB	PTS	EXIST	N/A
OFFICE 26A	CAR	N/A	GWB	PTS	GWB	PTS	GWB	PTS	GWB	PTS	ACP	FF

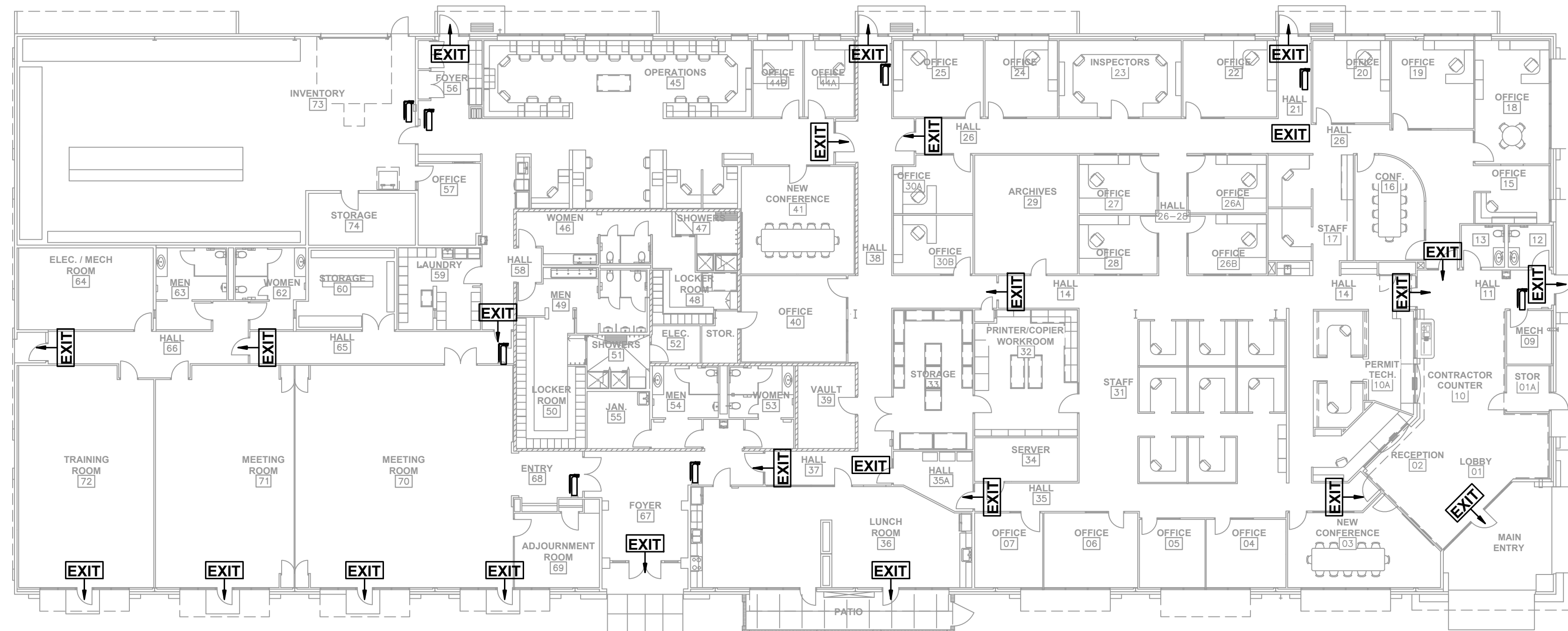
OFFICE 26B	CAR	N/A	GWB	PTS	GWB	PTS	GWB	PTS	GWB	PTS	ACP	FF
OFFICE 27	CAR	N/A	GWB	PTS	GWB	PTS	GWB	PTS	GWB	PTS	ACP	FF
OFFICE 28	CAR	N/A	GWB	PTS	GWB	PTS	GWB	PTS	GWB	PTS	ACP	FF
HALL 26-28	CAR	N/A	GWB	PTS	GWB	PTS	GWB	PTS	GWB	PTS	ACP	FF
OFFICE 30A	CAR	N/A	GWB	PTS	GWB	PTS	GWB(E)	PTS	GWB	PTS	ACP	FF
OFFICE 30B	CAR	N/A	GWB	PTS	GWB	PTS	GWB(E)	PTS	GWB	PTS	ACP	FF
STAFF 31	CAR	N/A	GWB	PTS	N/A	N/A	GWB	PTS	N/A	N/A	ACP	FF
PRINT/COPY WORKROOM 32	CAR	N/A	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	EXIST	N/A
STORAGE 33	EXIST	N/A	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	EXIST	N/A
HALL 35	CAR	N/A	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	ACP	FF
HALL 35A	EXIST	N/A	GWB(E)	N/A	GWB	PTS	GWB(E)	PTS	GWB(E)	N/A	EXIST	N/A
HALL 37	EXIST	N/A	CMU	EXIST	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	EXIST	N/A
HALL 38	EXIST	N/A	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	CMU	EXIST	EXIST	N/A
CONFERENCE 41	RES	N/A	GWB	PTS	GWB(E)	PTS	GWB	PTS	GWB	PTS	ACP	FF
OFFICE 44A	RES	N/A	GWB	PTS	GWB	PTS	GWB(E)	PTS	GWB	PTS	ACP	FF
OFFICE 44B	RES	N/A	GWB	PTS	GWB	PTS	GWB	PTS	GWB(E)	PTS	ACP	FF
OPERATIONS 45	EXIST	N/A	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	EXIST	N/A
WOMEN 46	RES	N/A	CMU(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	EXIST	PTS
SHOWERS 47	RES	N/A	CMU(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	EXIST	PTS
LOCKER ROOM 48	RES	N/A	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	EXIST	PTS
MEN 49	RES	N/A	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	EXIST	PTS
LOCKER ROOM 50	RES	N/A	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	EXIST	PTS
SHOWERS 51	RES	N/A	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	EXIST	PTS
FOYER 56	CAR	N/A	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	EXIST	N/A
LAUNDRY 59	RES	N/A	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	EXIST	N/A
ENTRY 68	CAR	N/A	GWB(E)	PTS	GWB(E)	PTS	GWB(E)	PTS	N/A	N/A	EXIST	N/A
MEETING ROOM 70	CAR	N/A	GWB(E)	N/A	GWB(E)	N/A	GWB(E)	N/A	GWB(E)	N/A	EXIST	N/A
MEETING ROOM 71	CAR	N/A	GWB(E)	N/A	GWB(E)	N/A	GWB(E)	N/A	GWB(E)	N/A	EXIST	N/A
INVENTORY 73	EXIST	N/A	EXIST	N/A	EXIST	N/A	EXIST	N/A	EXIST	N/A	LAM	FF

ABBREVIATIONS

ACP	-ACOUSTIC CEILING PANELS
CAR	-CARPET
CONC	-CONCRETE
CMU	-CONCRETE MASONRY UNIT
CMU(E)	-CONCRETE MASONRY UNIT; EXISTING
EXIST	-EXISTING
EXP	-EXPOSED
FF	-FACTORY FINISH
GWB	-GYPSUM WALL BOARD
GWB(E)	-GYPSUM WALL BOARD; EXISTING
LAM	-LAMINATED CEILING PANELS
MATL	-MATERIAL
N/A	-NOT APPLICABLE
PTS	-PAINT TO SPECIFICATIONS
RES	-QUARTZ EPOXY RESIN CONCRETE FLOOR COATING
WAX	-FLOOR WAX

ARCHITECTURAL GENERAL NOTES

- ALL MATERIALS AND WORKMANSHIP SHALL BE FURNISHED AND SUPPLIED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODES, CURRENT EDITION, AND THESE CONTRACT DOCUMENTS UNLESS OTHERWISE SPECIFICALLY NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT AND COORDINATE WITH THE OWNER FOR ALL UTILITIES IN ORDER TO ASSURE THAT ALL UTILITIES AND APPURTENANCES ARE PROPERLY LOCATED, SECURED, AND/OR PROTECTED.
- THE CONTRACTOR SHALL HAVE A COPY OF THESE PLANS, PERMITS, ANY ADDENDA, CHANGE ORDERS AND THE CONTRACT SPECIFICATIONS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS AND EXTENT OF DEMOLITION WORK PRIOR TO BIDDING.
- CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO STARTING THE WORK.
- ALL DIMENSIONS ARE TO FACE OF FRAMING, TO FACE OF MASONRY, OR TO FACE OF CONCRETE UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING FINISHES, MATERIALS, STRUCTURAL ELEMENTS, ELECTRICAL, MECHANICAL, AND PLUMBING THAT ARE NOT A PART OF THE WORK. ANY SURFACES DAMAGED BY THE CONTRACTOR'S ACTIVITIES SHALL BE REPAIRED TO AN EXISTING OR BETTER CONDITION BY THE CONTRACTOR.
- THE ORIGINAL 1997 BUILD-OUT PLANS FOR THIS BUILDING ARE AVAILABLE AS A DIGITAL DOWNLOAD. SUBMIT REQUESTS TO THE DISTRICT'S PROJECT MANAGER, BRANDON HUMPHREY AT bhumphrey@nud.net.
- CONTRACTOR SHALL PROVIDE NECESSARY BACKING TO SECURE ANY FIXTURE OR EQUIPMENT TO STRUCTURE AND PROVIDE BACKING FOR EQUIPMENT AND ACCESSORY SUPPORT FOR THE FOLLOWING: SHELVING, LAVATORIES, CABINETS AND CASEWORK, TOILET ACCESSORIES, CLOSET ACCESSORIES, STAIR & HANDRAILS, GARMENT HOOKS, GRAB BARS, PICTURES/ARTWORK, HEADBOARDS, DOOR AND FINISH WARDWARE AND ANY OTHER WALL AND CEILING MOUNTED ITEMS.
- THE CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS NECESSARY FOR COMPLETE INSTALLATION OF ALL WORK. EACH CONTRACTOR SHALL RESPECT THE WORK OF OTHER CONTRACTORS AND SHALL BE RESPONSIBLE FOR AND LIABLE FOR REPAIR AND/OR REPLACE ANY DAMAGE CAUSED BY THEIR WORK.
- QUALITY: WORKMANSHIP SHALL BE OF STANDARDS OF TRADES INVOLVED IN THE CONSTRUCTION INDUSTRY AND MATERIALS USED AND PROVIDED OF THE BEST QUALITY THE MARKET AFFORDS. ALL INSTALLATIONS AND APPLICATION SHALL CONFORM TO MANUFACTURERS SPECIFICATION & WARRANTY REQUIREMENTS



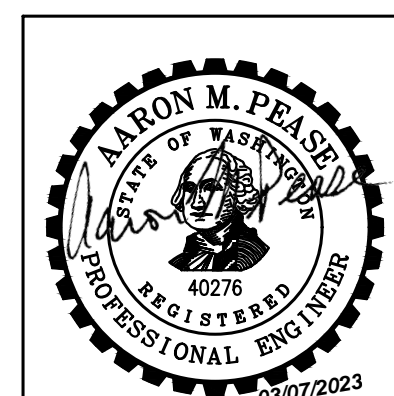
EXIT AND FIRE EXTINGUISHER PLAN
SCALE: 1/16"=1'-0"

NOTE:

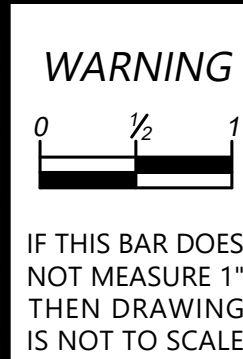
- NO CHANGE TO EXISTING EGRESS PATTERNS.

KEY:

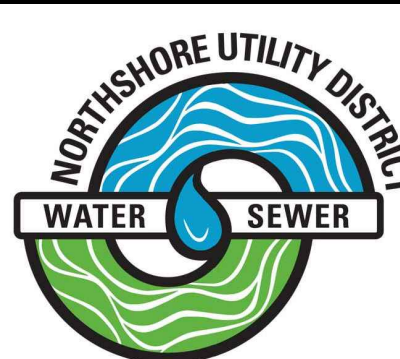
- ILLUMINATED EXIT SIGN W/ BATTERY BACK-UP TYP. PER IFC 1013
- FIRE EXTINGUISHER 2A RATED TYPICAL



NO	BY	APPD	REVISION	DATE



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DATE	MAR. 2023



NORTHSHORE UTILITY DISTRICT

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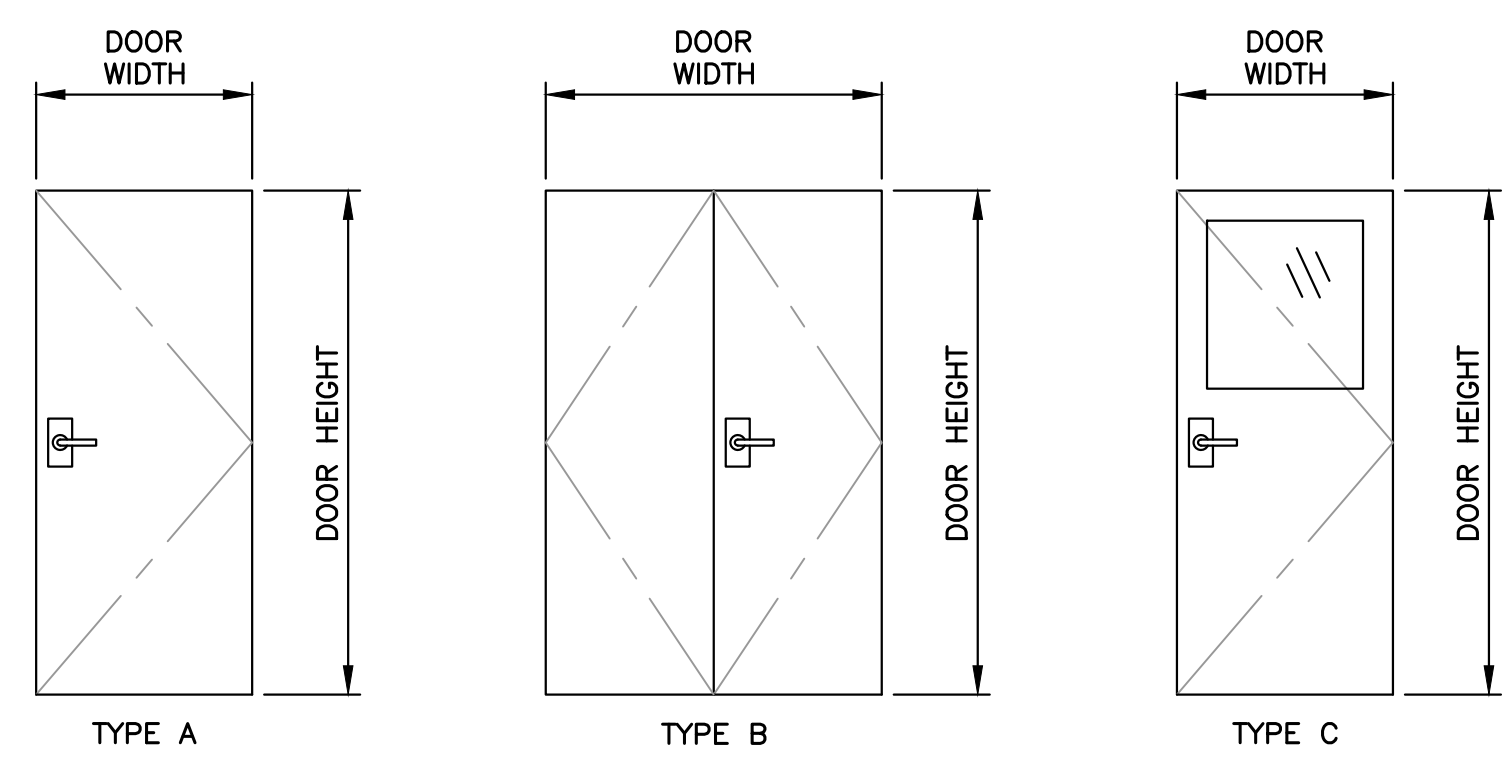
CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS
**ARCHITECTURAL BUILDING DATA, NOTES,
AND FINISH SCHEDULE**

SHEET

A-1
OF 24

DOOR SCHEDULE						
NO.	MATERIAL & TYPE	DOOR SIZE: WIDTH x HEIGHT x THICKNESS	DOOR TYPE	FRAME TYPE	FINISH	HARDWARE GROUP
1	NOT USED					
2	WOOD	3'-0" x 7'-0" x 1 3/4"	EXIST	EXIST	N/A	EXIST
3	WOOD	3'-0" x 7'-0" x 1 3/4"	EXIST*	EXIST*	N/A	EXIST
4	INSULATED HOLLOW METAL	3'-0" x 7'-0" x 1 3/4"	A	A	PAINT	2
5	WOOD	3'-0" x 7'-0" x 1 3/4"	A	A	CLEAR	1
6	WOOD	3'-0" x 7'-0" x 1 3/4"	A	A	CLEAR	1
7	WOOD	3'-0" x 7'-0" x 1 3/4"	A	C	CLEAR	3
8	WOOD	3'-0" x 7'-0" x 1 3/4"	A	B	CLEAR	3
9	WOOD	3'-0" x 7'-0" x 1 3/4"	A	B	CLEAR	3
10	WOOD	3'-0" x 7'-0" x 1 3/4"	A	B	CLEAR	3
11	WOOD	3'-0" x 7'-0" x 1 3/4"	A	B	CLEAR	3
12	WOOD	3'-0" x 7'-0" x 1 3/4"	EXIST*	EXIST	N/A	4
13	HOLLOW METAL	6'-0" x 7'-0" x 1 3/4"	B*	A*	PAINT	5
14	WOOD	3'-0" x 7'-0" x 1 3/4"	A	B	CLEAR	3
15	WOOD	3'-0" x 7'-0" x 1 3/4"	C	A	CLEAR	3
16	WOOD	3'-0" x 7'-0" x 1 3/4"	C	A	CLEAR	3
17	WOOD	3'-0" x 7'-0" x 1 3/4"	EXIST	EXIST	N/A	4
18	WOOD	4'-8" x 7'-0" x 1 3/4"	B	A	CLEAR	6
19	WOOD	3'-0" x 7'-0" x 1 3/4"	A*	D*	CLEAR	3

- NOTES:
- FRAME THROAT VARIES, COORDINATE & VERIFY FRAME DEPTH W/ FINISHED WALL SECTION.
 - EXTERIOR DOOR ASSEMBLIES SHALL MEET THE MINIMUM U-VALUE OF 0.37 PER WSEC 2018.
 - ALL DOORS MARKED WITH "*" SHALL BE 20-MIN FIRE RATED.
 - EXISTING DOORS TO BE RELOCATED AND REINSTALLED SHALL INCLUDE THEIR EXISTING HARDWARE INCLUDING ELECTRONIC DOOR ACCESS CONTROL WHERE OCCURS.

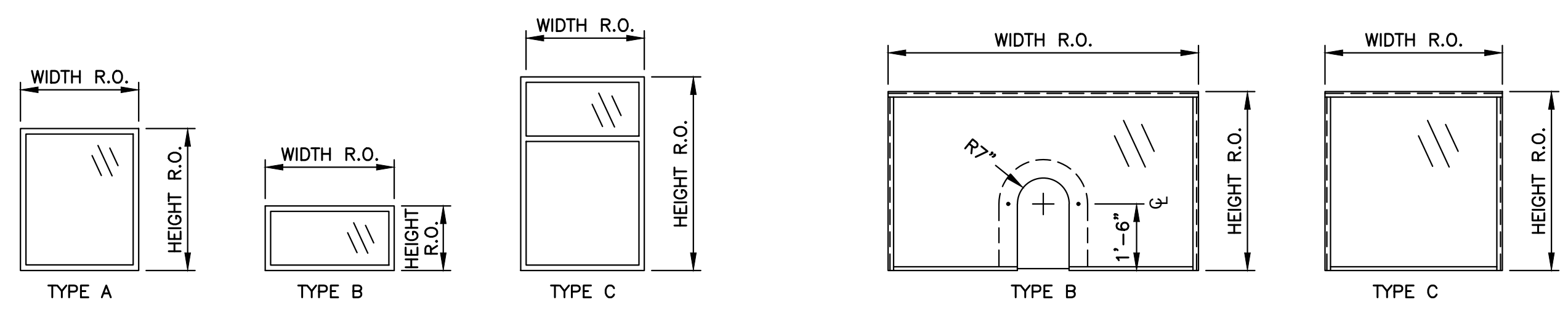


DOOR TYPES
SCALE: NTS

BORROWED LITE SCHEDULE						
NO.	TYPE	WINDOW SIZE: WIDTH x HEIGHT = AREA	FRAME TYPE	QUANTITY	TOTAL VGA	U-FACTOR NFRC CERTIFIED
A	PICTURE	3'-8" x 4'-4" = 15.9 SF	A	2	24 SF	0.35
B	PICTURE	4'-0" x 2'-0" = 8.0 SF	B	8	48 SF	N/A
C	DIVIDED PICTURE	3'-10" x 6'-0" = 23.0 SF	C	2	38 SF	0.35

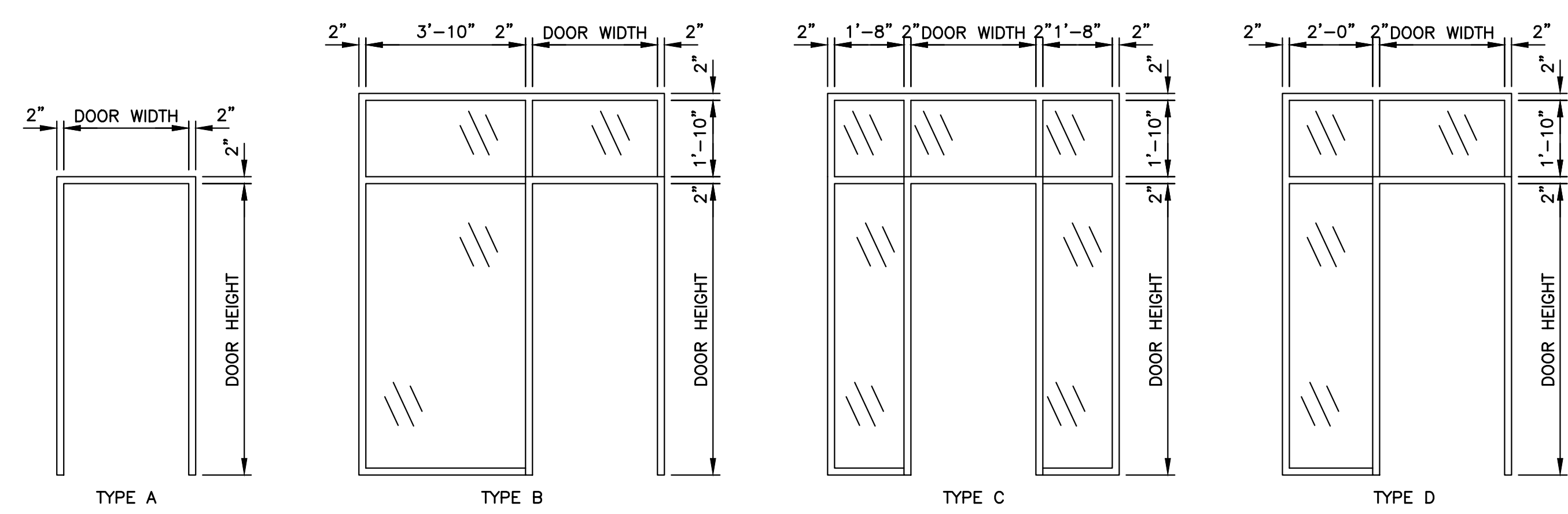
- NOTES:
- ALL NEW EXTERIOR WINDOW GLAZING SHALL BE INSULATED LOW-E WITH ARGON DOUBLE GLAZING.
 - PERCENTAGE OF GLAZING AREA TO EXTERIOR WALL: 36 SF / 3,710 SF = 1.0%.

BALLISTICS RESISTANT WINDOW SCHEDULE						
NO.	TYPE	WINDOW SIZE: WIDTH x HEIGHT = AREA	FRAME TYPE	QUANTITY	INFILL	BALLISTICS RATING
D	BAFFLE	7'-0" x 4'-0" = 28 SF	B	2	ARCYLIC	LEVEL 3
E	FIXED	4'-0" x 4'-0" = 16 SF	C	1	ARCYLIC	LEVEL 3
F	FIXED	7'-0" x 4'-0" = 28 SF	C	1	ARCYLIC	LEVEL 3



BORROWED LITE FRAME TYPE
SCALE: NTS

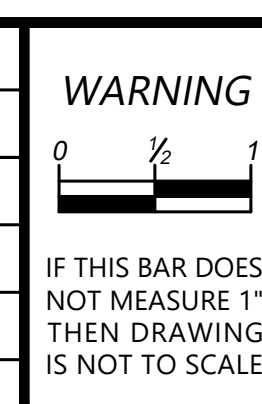
BALLISTICS RESISTANT WINDOW TYPES
SCALE: NTS



DOOR FRAME TYPES
SCALE: NTS

- FLOOR PLAN LEGEND**
- EXISTING METAL STUD WALL
 - EXISTING CMU WALL
 - NEW METAL STUD WALL; SEE WALL TYPES
 - DOOR NUMBER, SEE DOOR SCHEDULE THIS SHEET
 - WINDOW NUMBER, SEE WINDOW SCHEDULE THIS SHEET
 - FIRE EXTINGUISHER (FE)
 - DRINKING FOUNTAIN (DF)

NO	BY	APPD	REVISION	DATE



Gray & Osborne, Inc.
CONSULTING ENGINEERS

GABBERT
ARCHITECTS
PLANNERS

DESIGNED BY	ASD
DRAWN BY	ASD
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APPROVAL	EBD
DATE	MAR. 2023

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CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS

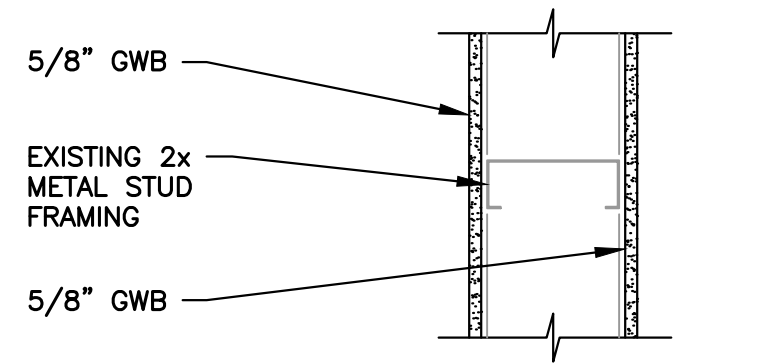
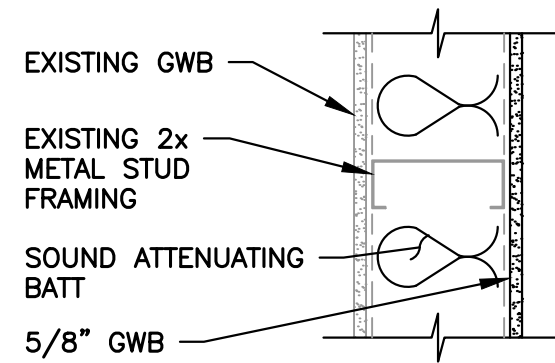
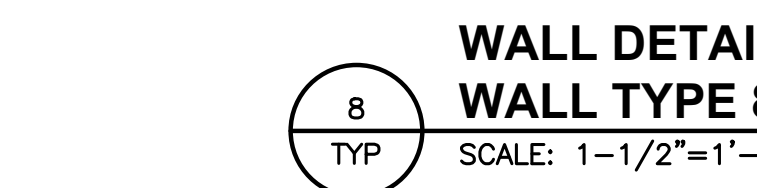
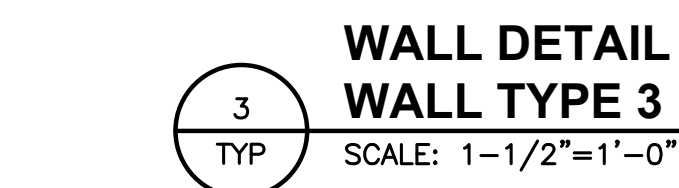
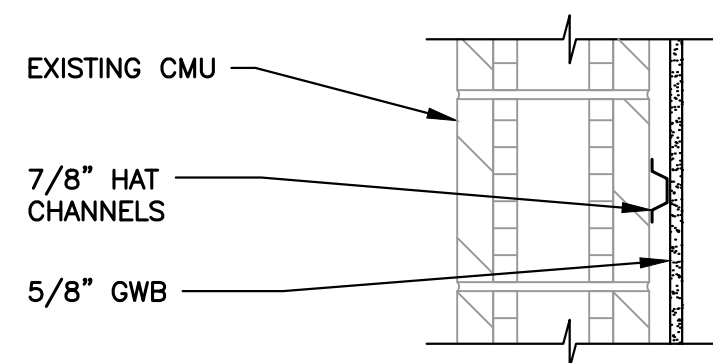
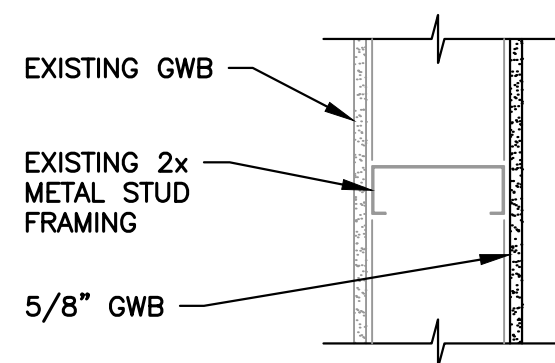
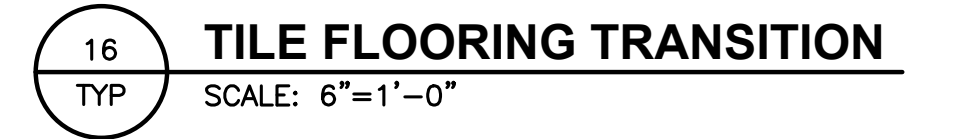
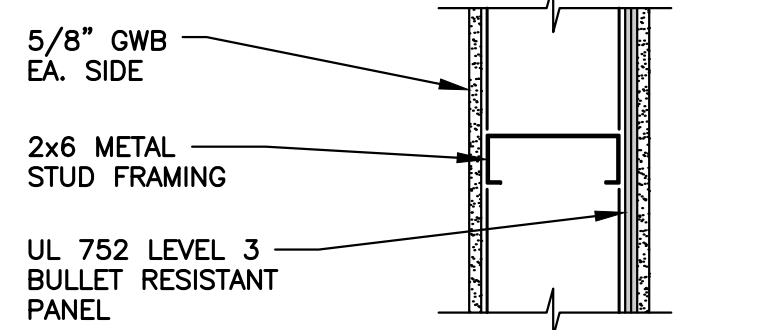
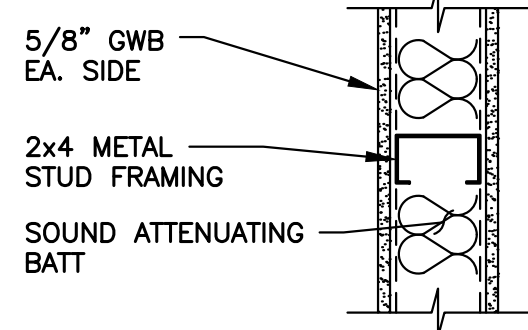
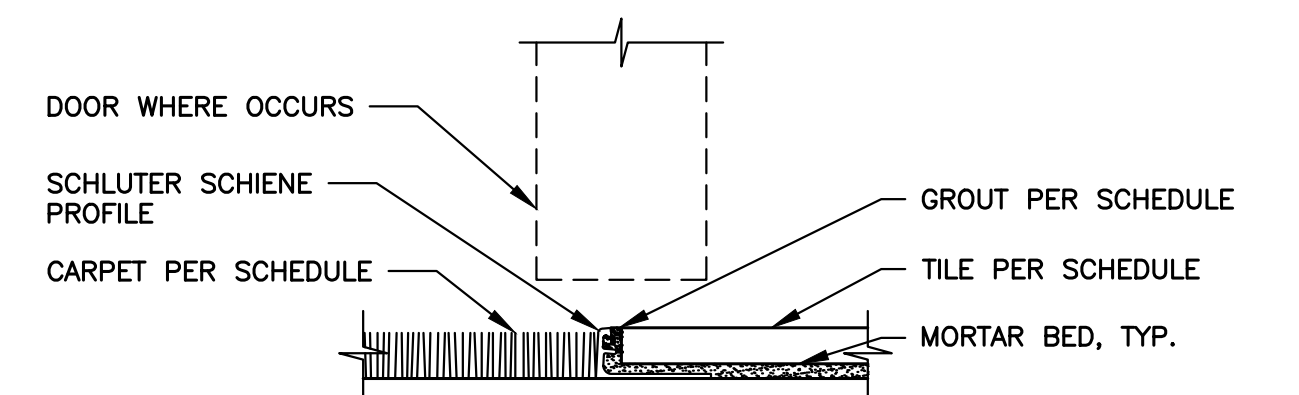
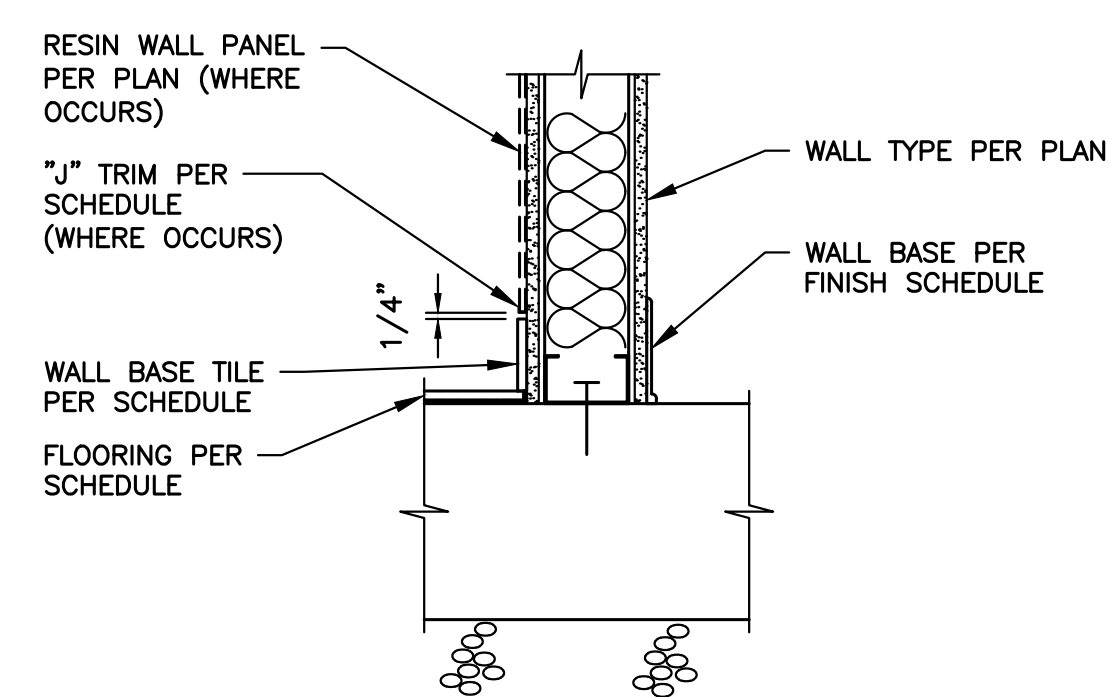
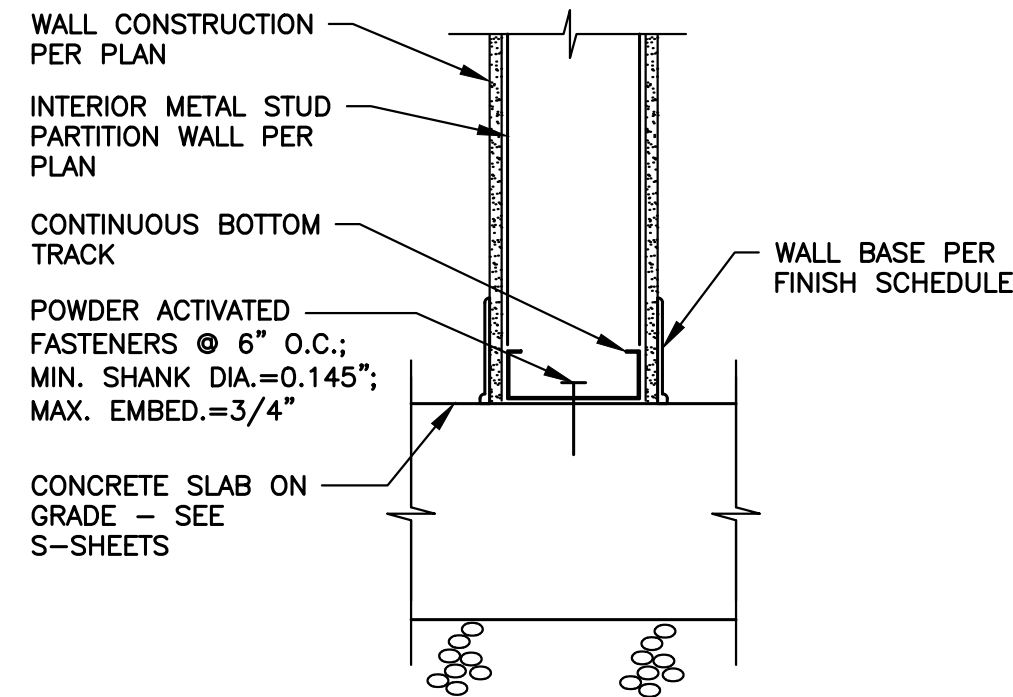
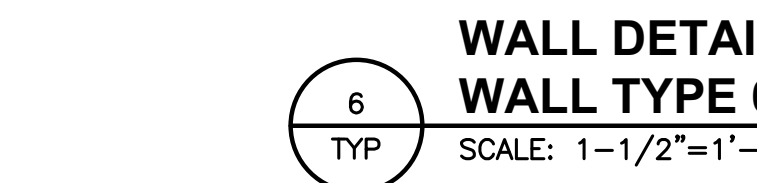
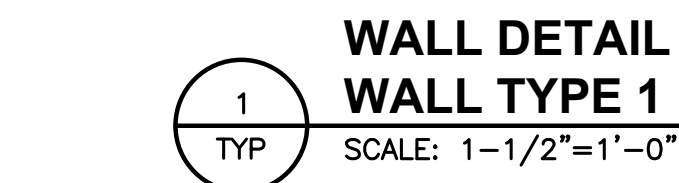
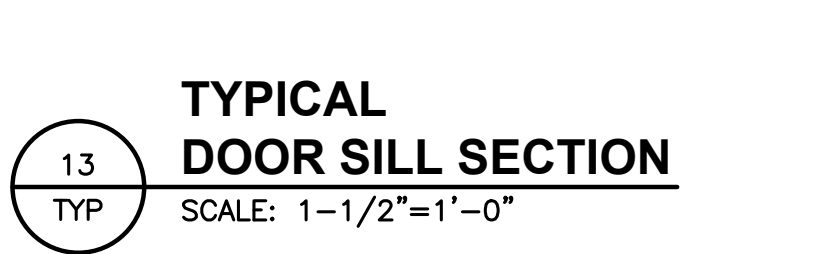
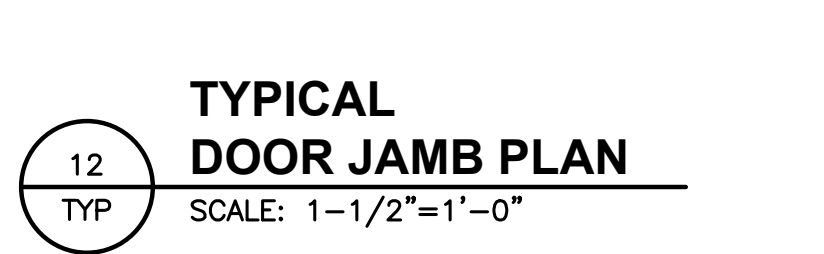
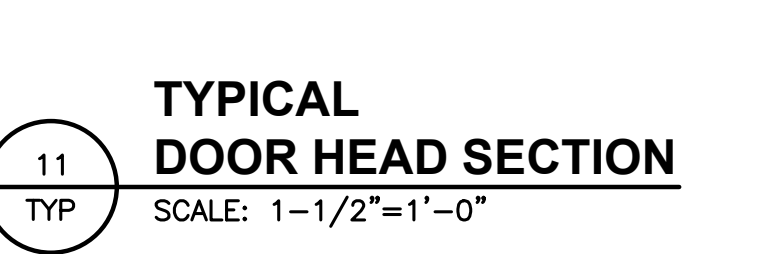
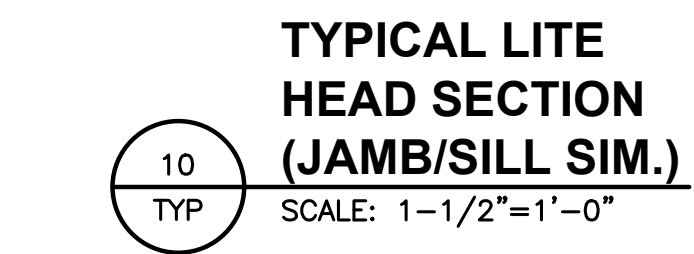
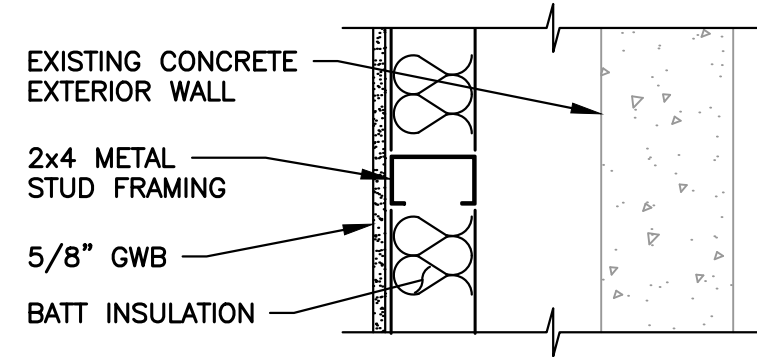
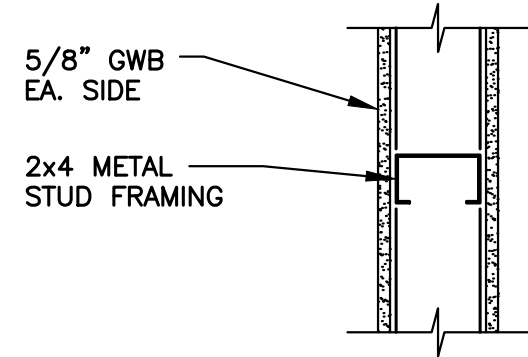
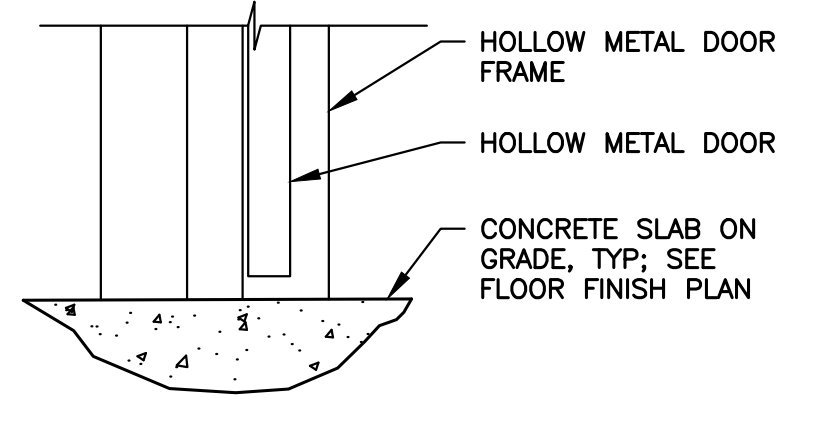
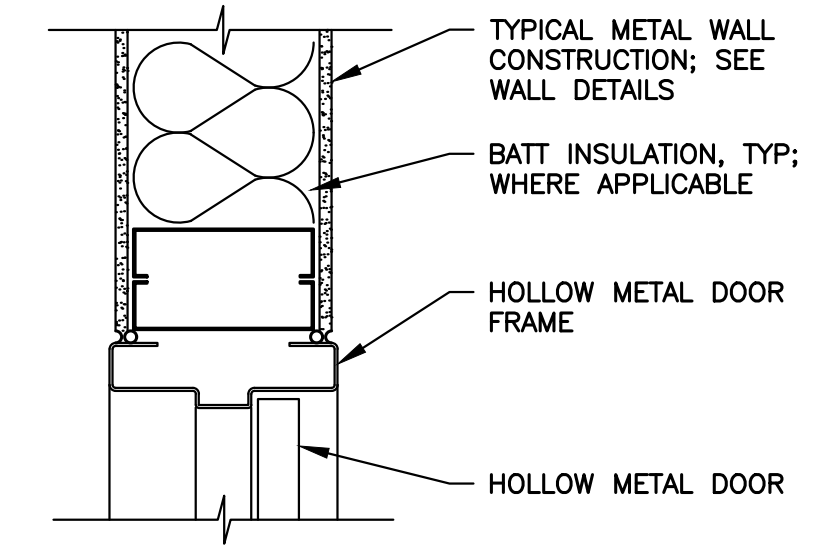
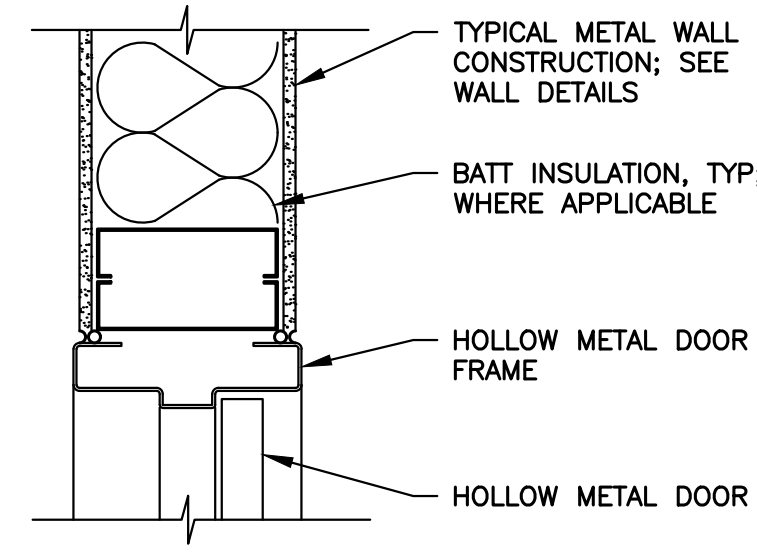
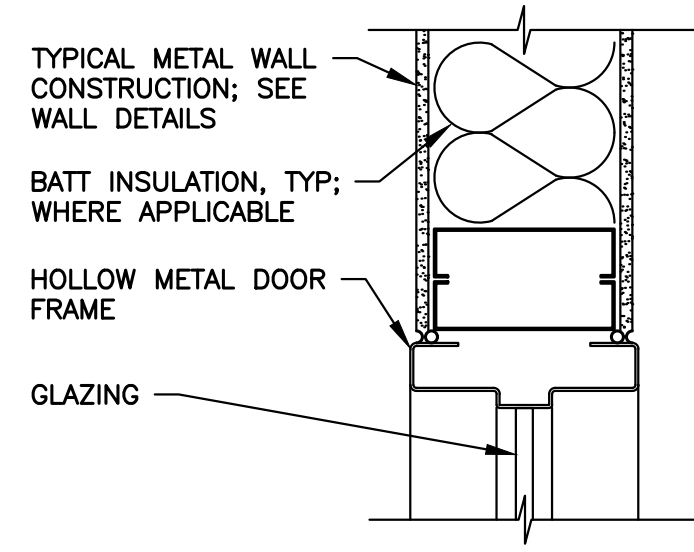
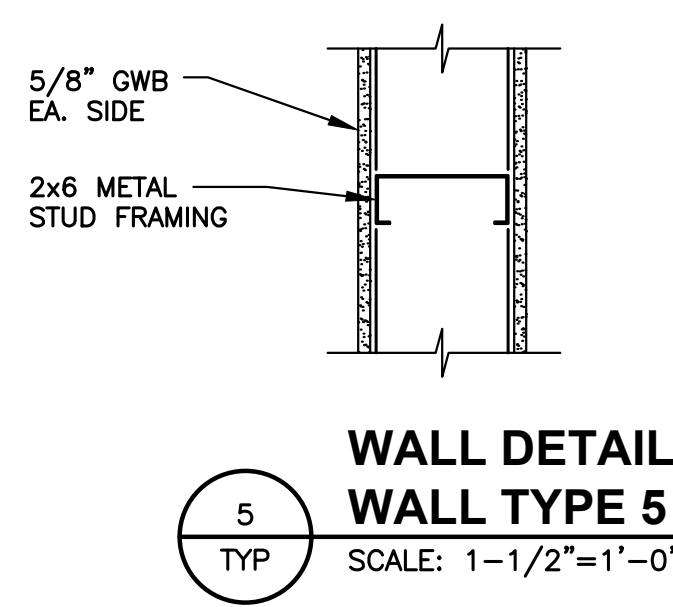
**ARCHITECTURAL DOOR SCHEDULE,
BORROWED LITE SCHEDULE, AND WALL
DETAILS**

ARON M. PRASH
STATE OF WASHINGTON
REGISTERED ARCHITECT
40276

MICHAEL GARRETT
STATE OF WASHINGTON
REGISTERED ARCHITECT
11692

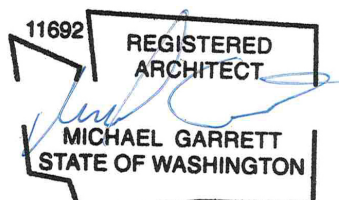
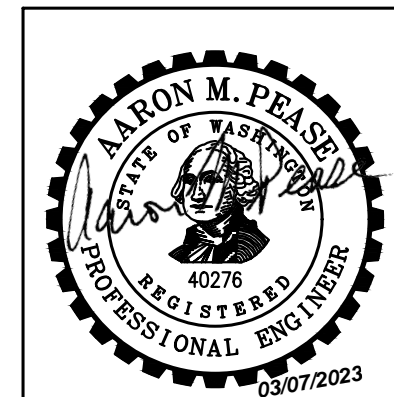
WALL TYPE LEGEND

- 1 2x4 METAL STUD WALL W/ 5/8" GWB BOTH SIDES.
- 2 2x4 METAL STUD WALL W/ 5/8" GWB BOTH SIDES. SOUND ATTENUATING BATT INSULATION.
- 3 EXISTING 2x FRAMING W/ 5/8" GWB ONE SIDE.
- 4 EXISTING 2x FRAMING W/ 5/8" GWB ONE SIDE. SOUND ATTENUATING BATT INSULATION.
- 5 2x6 METAL STUD WALL W/ 5/8" GWB BOTH SIDES.
- 6 2x4 METAL STUD WALL @ EXISTING EXTERIOR WALL W/ 5/8" GWB ONE SIDE. R-21 BATT INSULATION.
- 7 2x4 METAL STUD WALL W/ LEVEL 3 BULLET RESISTANT PANELS AND W/ 5/8" GWB BOTH SIDES.
- 8 EXISTING CMU W/ 5/8" GWB ONE SIDE
- 9 EXISTING 2x FRAMING W/ 5/8" GWB BOTH SIDES.

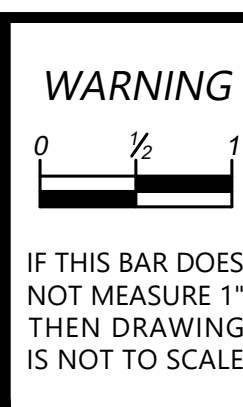


NOTES:

1. ALL INTERIOR PARTITION WALLS SHALL EXTEND TO A MINIMUM OF 6" ABOVE CEILING ELEVATION AND SHALL BE BRACED TO STRUCTURE IN ACCORDANCE WITH NW WALL AND CEILING BUREAU TECHNICAL DOCUMENT #200-501, OR EQUAL INDUSTRY STANDARD.
2. SUSPENDED SOFFITS, FAUX SKYLIGHT PLENUMS, AND OTHER MISCELLANEOUS FRAMING SHALL BE CONNECTED AND/OR BRACED TO ADJACENT STRUCTURE OR WALL FRAMING IN ACCORDANCE WITH THE ABOVE STANDARDS.



NO	BY	APPD	REVISION	DATE



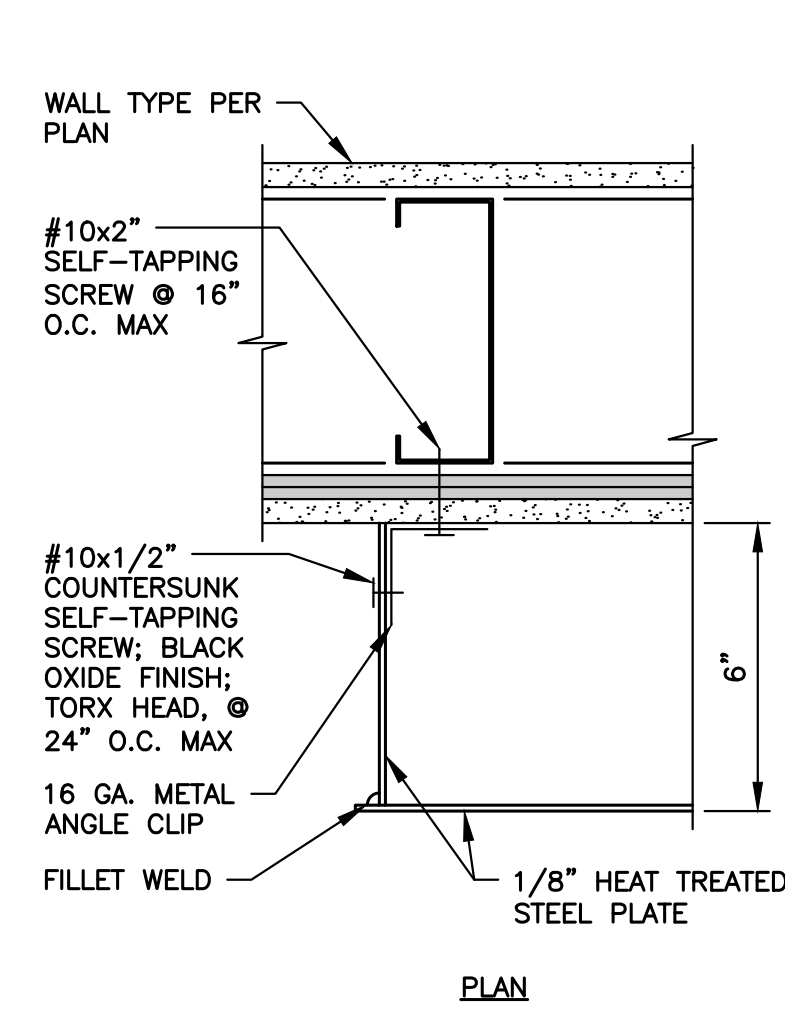
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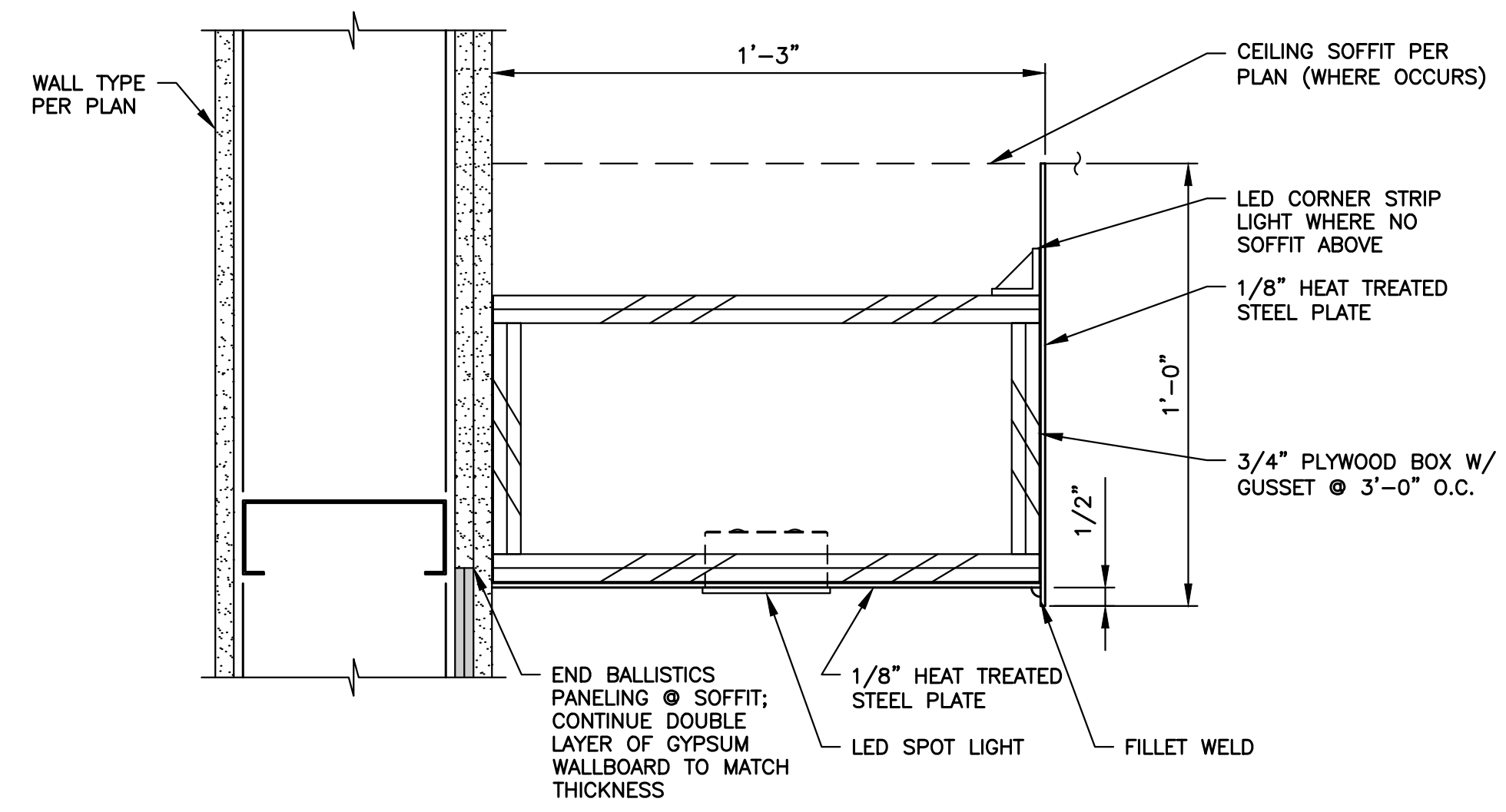
NORTHSHORE UTILITY DISTRICT
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CONTRACT 2023-01
 BUILDING "A" IMPROVEMENTS
ARCHITECTURAL BUILDING DETAILS 1

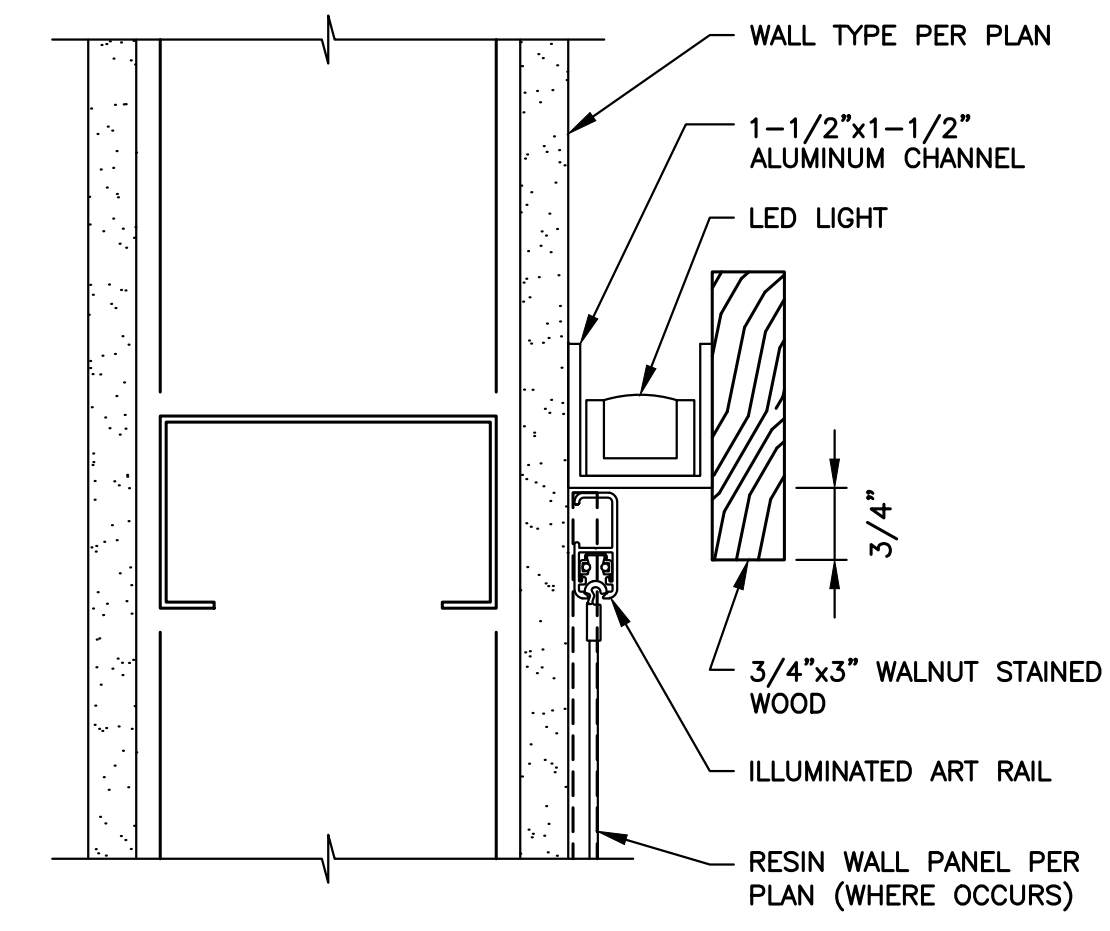
SHEET
 A-1.2
 OF 24



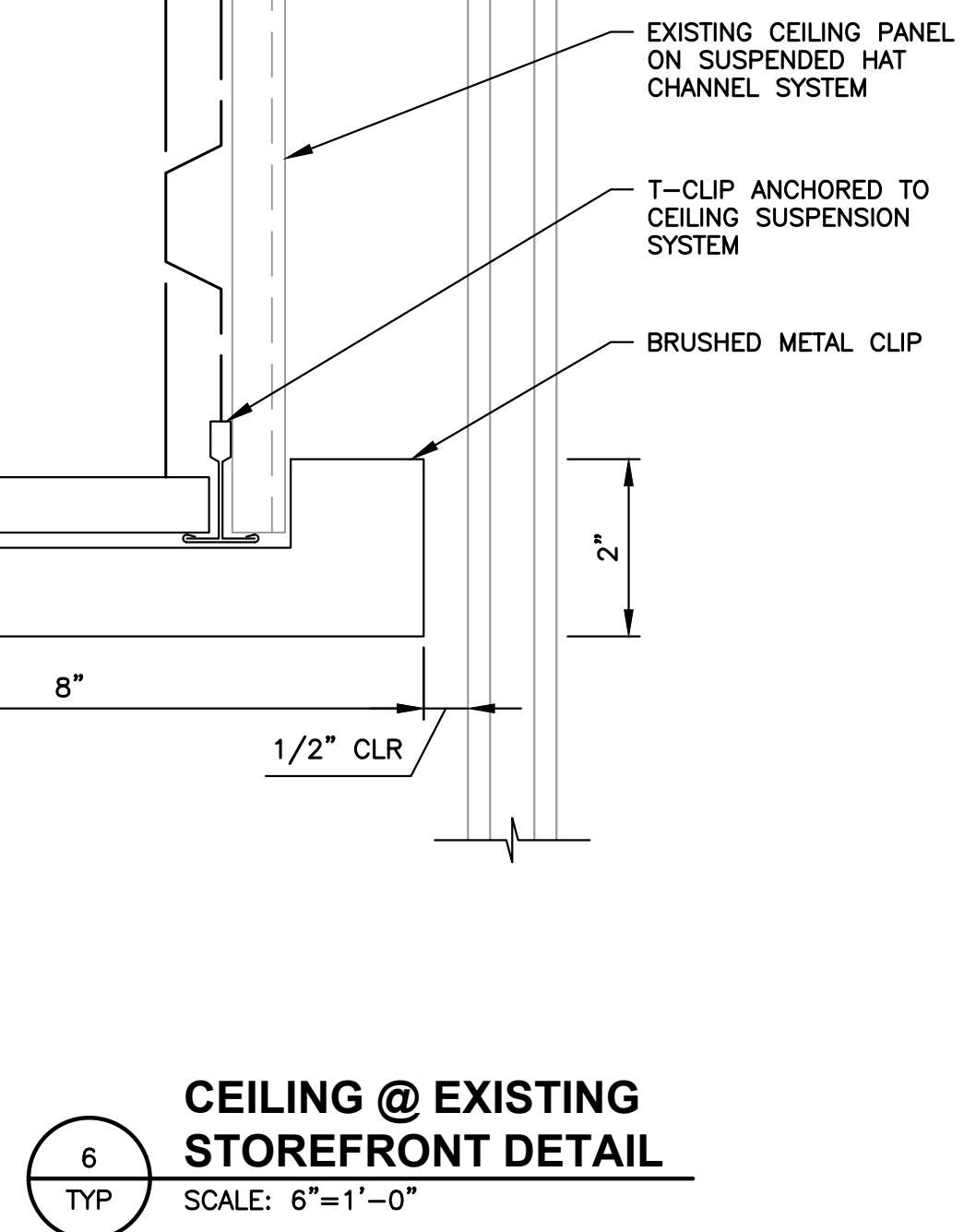
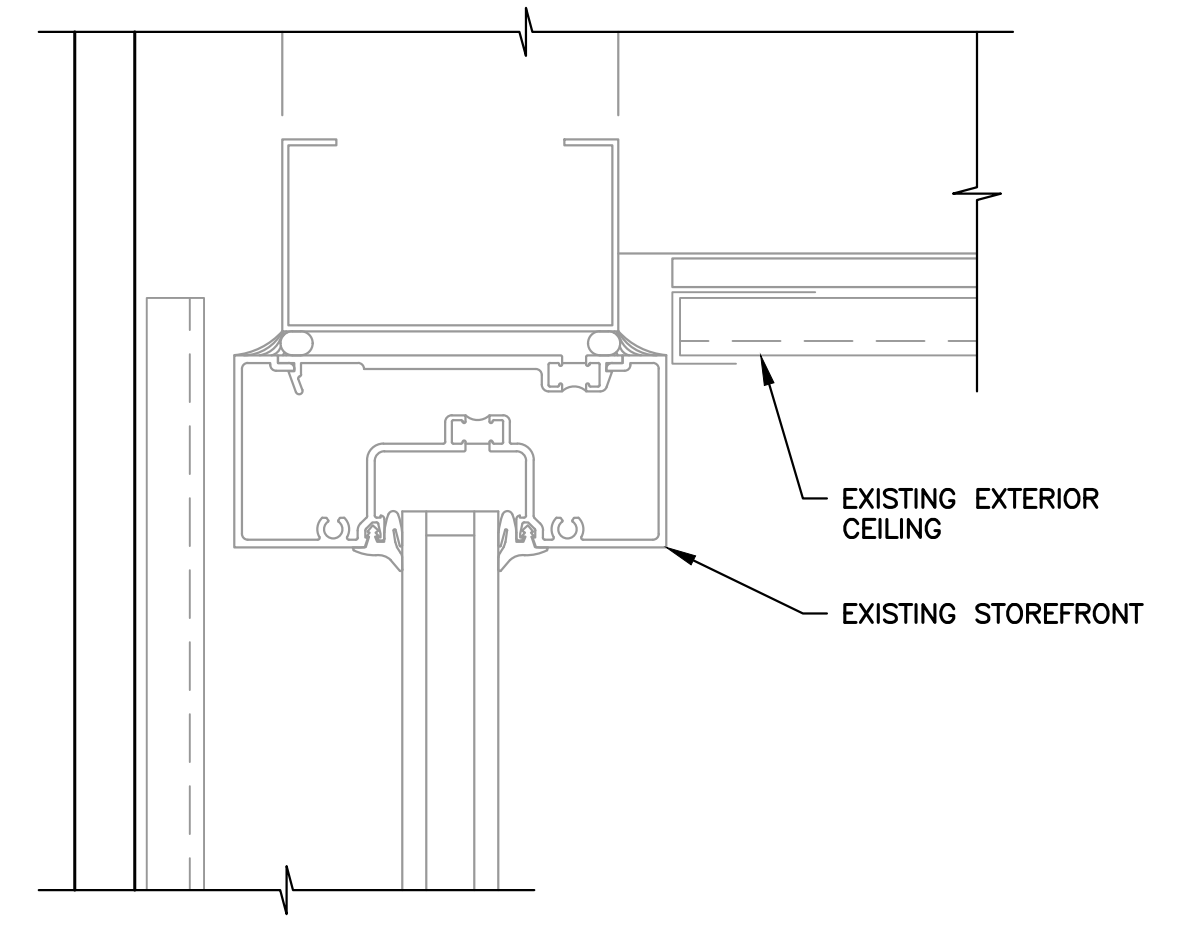
1 **VERTICAL STEEL ACCENT DETAIL**
TYP SCALE: 3"=1'-0"



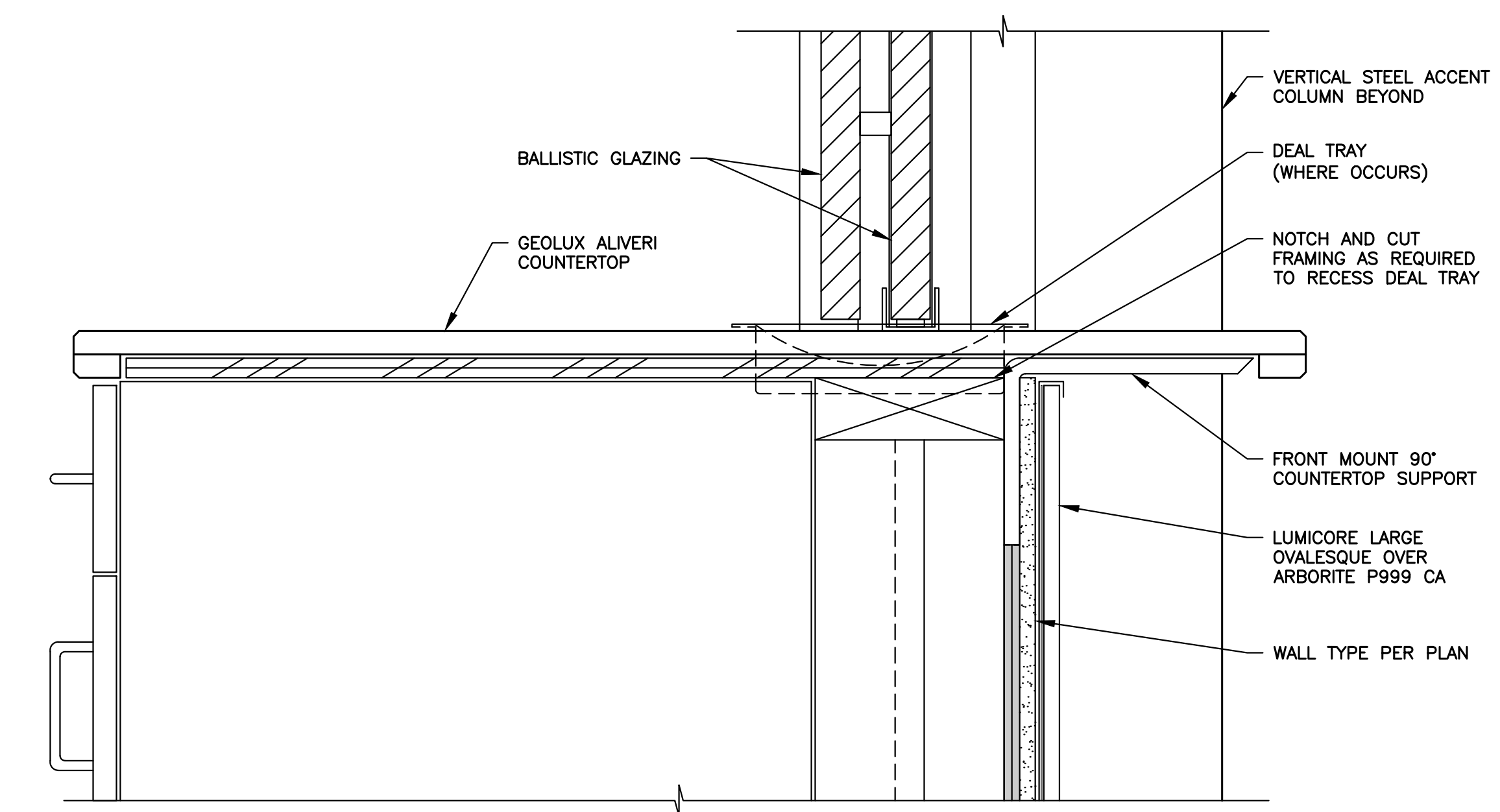
2 **HEAT TREATED STEEL SOFFIT DETAIL**
TYP SCALE: 3"=1'-0"



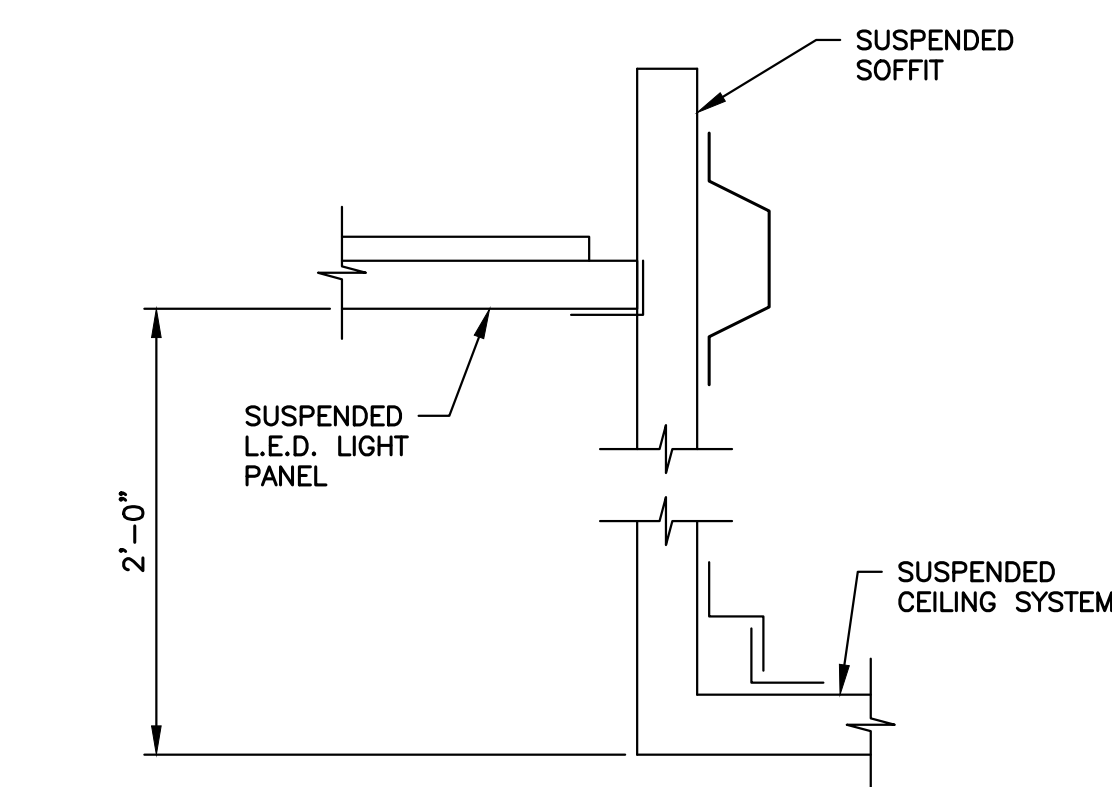
3 **LIGHTED HEAD RAIL DETAIL**
TYP SCALE: 6"=1'-0"



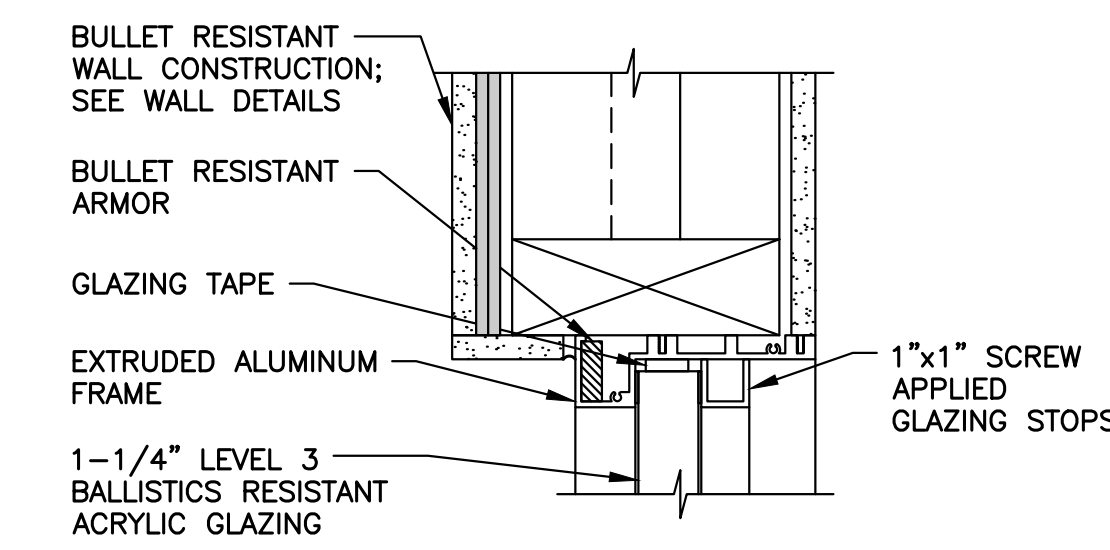
6 **CEILING @ EXISTING STOREFRONT DETAIL**
TYP SCALE: 6"=1'-0"



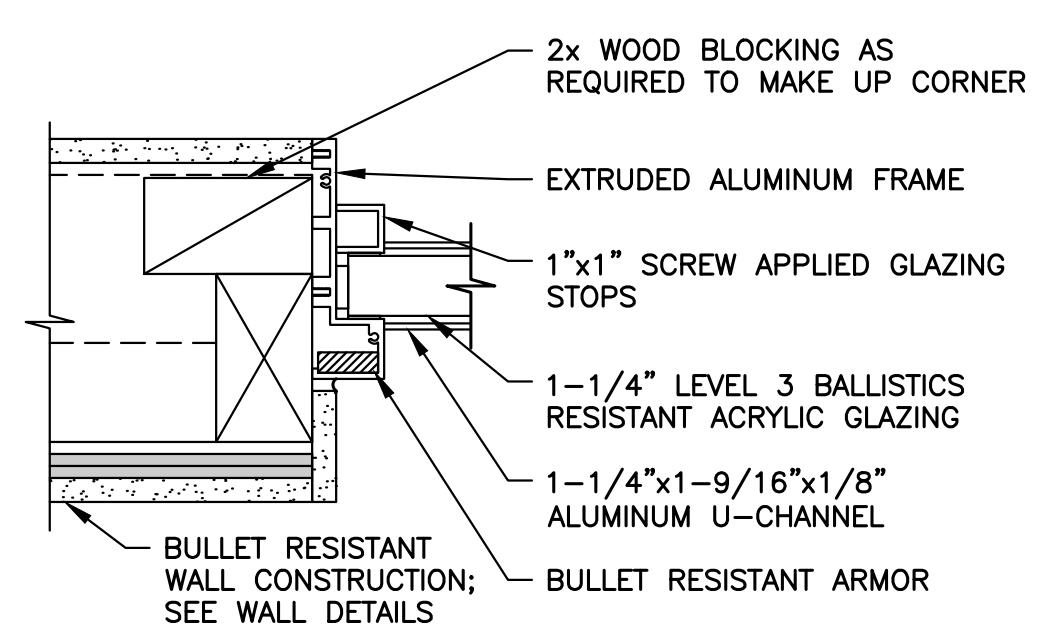
4 **LOBBY COUNTERTOP DETAIL**
TYP SCALE: 3"=1'-0"



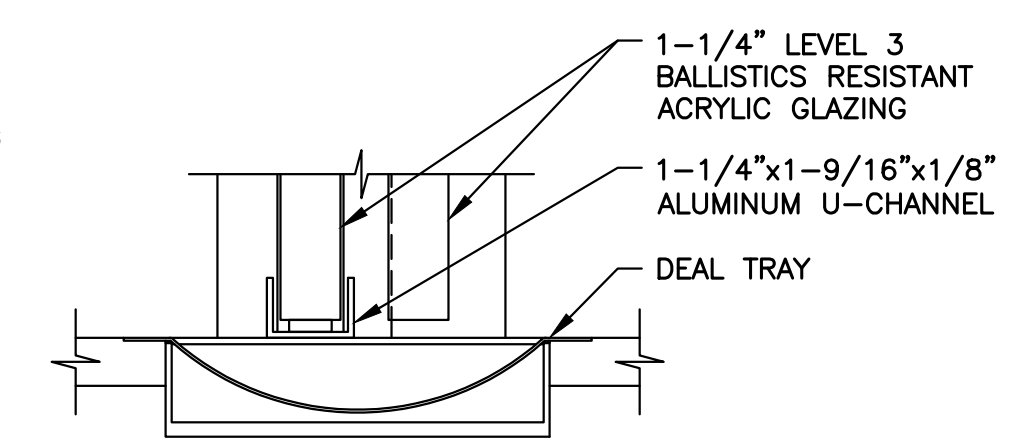
5 **LIGHT SOFFIT CEILING DETAIL**
TYP SCALE: 6"=1'-0"



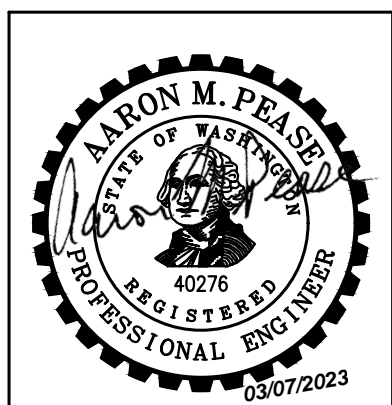
7 **BALLISTICS RESISTANT WINDOW HEAD DETAIL**
TYP SCALE: 3"=1'-0"



8 **BALLISTICS RESISTANT WINDOW JAMB DETAIL**
TYP SCALE: 3"=1'-0"



9 **BALLISTICS RESISTANT WINDOW SILL DETAIL**
TYP SCALE: 3"=1'-0"



NO	BY	APPD	REVISION	DATE

WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



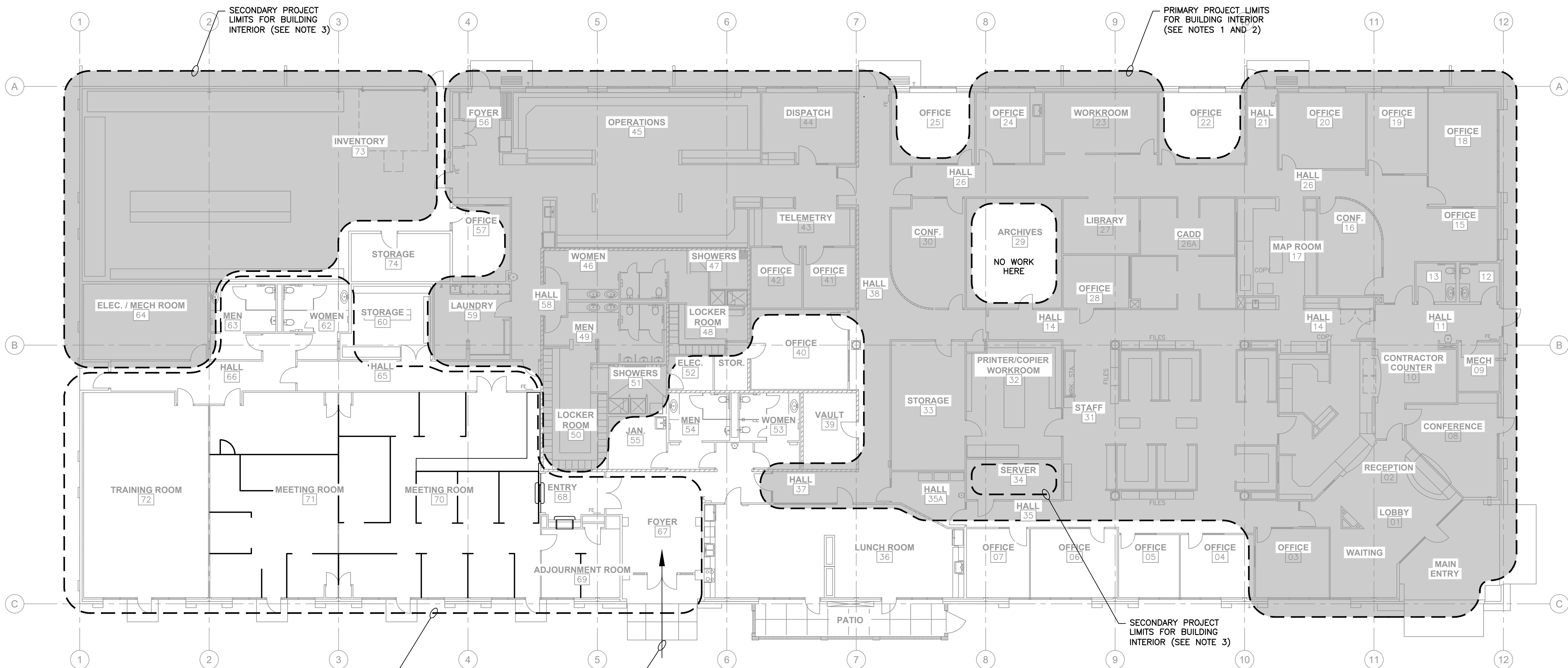
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CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS
ARCHITECTURAL BUILDING DETAILS 2

SHEET
A-1.3
OF 24



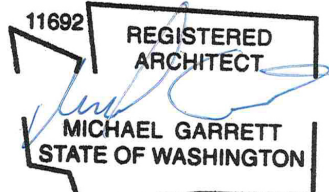
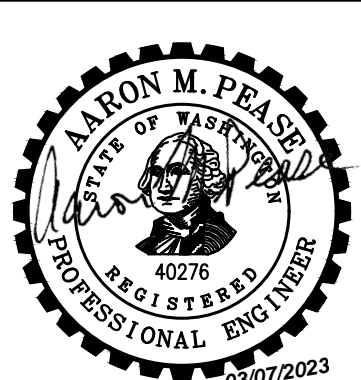
OWNER OCCUPIED
TEMPORARY STAFF
WORK SPACE DURING
CONSTRUCTION

TEMPORARY PUBLIC ACCESS
DURING CONSTRUCTION;
CONTRACTOR SHALL KEEP
CLEAR AT ALL TIMES

**EXISTING
FLOOR PLAN**
SCALE: 3/32"=1'-0"

NOTES:

- OWNER WILL VACATE THE PRIMARY PROJECT LIMITS DURING CONSTRUCTION AND TEMPORARILY RELOCATE STAFF, EQUIPMENT, AND FURNISHINGS TO MEETING ROOMS 70 AND 71, AND TO THE OUTSIDE TEMPORARY OFFICE TRAILERS.
- CONTRACTOR SHALL BE RESPONSIBLE TO DESIGN, LAYOUT, AND FURNISH THE TEMPORARY OFFICE AND WORKSPACES IN MEETING ROOMS 70 AND 71 PER SPECIFICATION 01520.
- FOR WORK ELEMENTS THAT NEED TO OCCUR OUTSIDE OF THE PRIMARY PROJECT LIMITS; CONTRACTOR ACCESS TO NON-VACATED OFFICES AND SPACES WILL BE ACCOMMODATED BY THE OWNER DURING THE PROJECT, CONTRACTOR SHALL COORDINATE W/ THE OWNER FOR ACCESS AT LEAST ONE WEEK IN ADVANCE.
- INVENTORY ROOM, ELEC/MECH ROOM, AND SERVER ROOM WILL REMAIN OCCUPIED AND ACTIVE BY OWNER DURING CONSTRUCTION; FOR WORK ELEMENTS IN THESE AREAS, CONTRACTOR SHALL COORDINATE WITH THE OWNER AT LEAST 4 WEEKS IN ADVANCE.

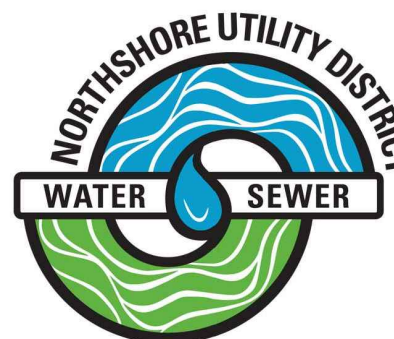


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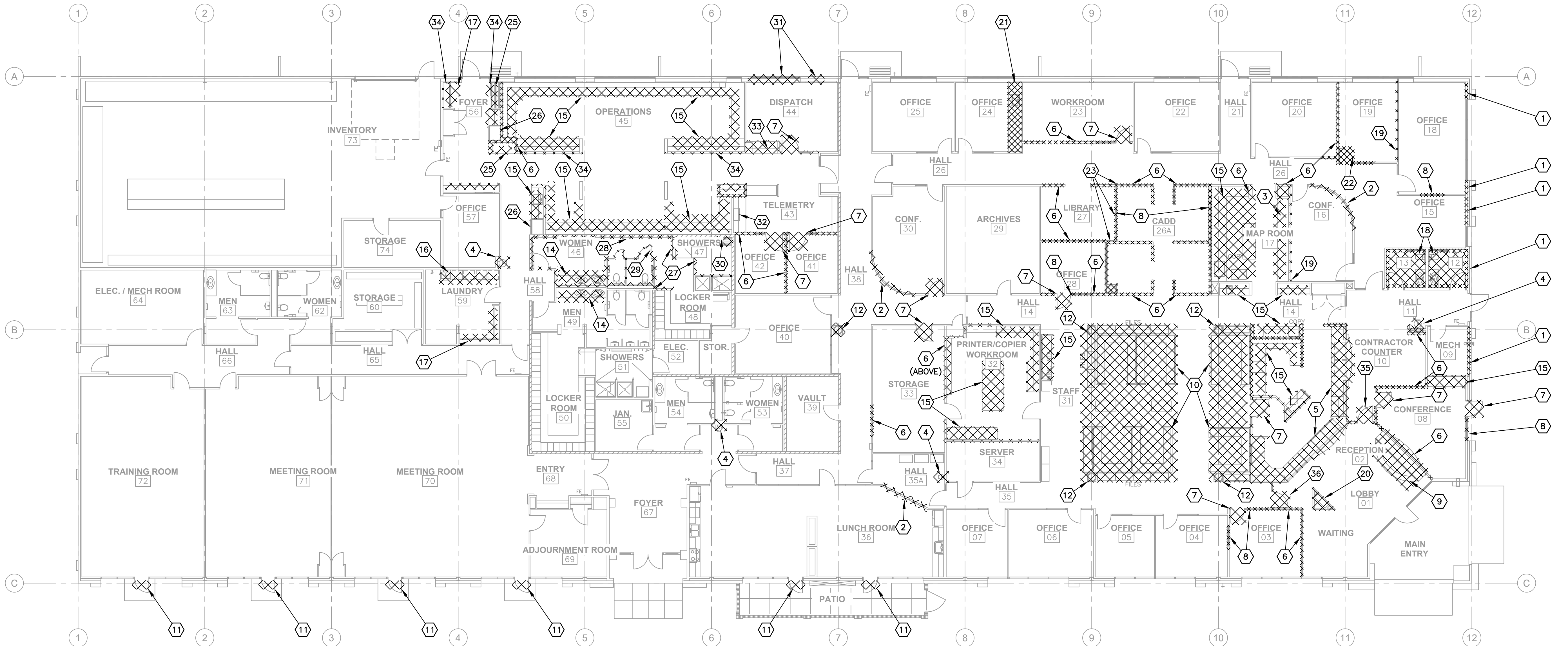
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6830 NE 185th St. P.O. Box 82489
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CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS
EXISTING FLOOR PLAN

SHEET
A-2
OF 24

NOTES:

1. CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS AND EXTENT OF DEMOLITION WORK PRIOR TO BIDDING.
2. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO STARTING THE WORK.
3. THE CONTRACTOR SHALL PROTECT ALL EXISTING FINISHES, MATERIALS, STRUCTURAL ELEMENTS, ELECTRICAL, MECHANICAL, AND PLUMBING THAT ARE NOT A PART OF THE WORK. ANY SURFACES DAMAGED BY THE CONTRACTOR'S ACTIVITIES SHALL BE REPAIRED TO AN EXISTING OR BETTER CONDITION BY THE CONTRACTOR.



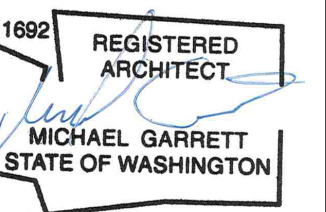
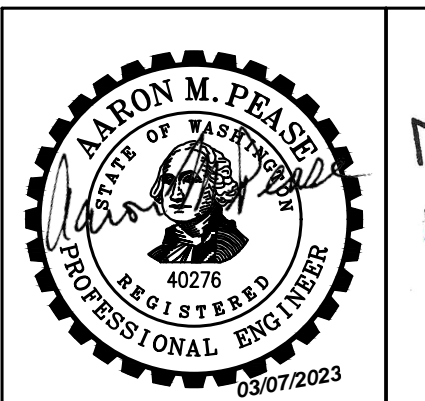
#	NOTES
1	DEMOLISH PORTIONS OF EAST WALL FOR SEISMIC RETROFIT (SEE S-SHEETS)
2	DEMOLISH PARTIAL GLASS BLOCK WALL
3	DEMOLISH SHELVING; RELOCATE FILING CABINETS PER DIRECTION FROM THE OWNER IN THE FIELD
4	DEMOLISH DRINKING FOUNTAIN
5	DEMOLISH COUNTERTOP, WINDOWS, WORKTOP, CASEWORK, AND WALLS
6	DEMOLISH WALL; RELOCATE/EXTEND UTILITIES TO NEW WALL(S)
7	DEMOLISH DOOR
8	DEMOLISH WINDOW(S)

9	DEMOLISH FOUNTAIN
10	DEMOLISH CUBICLES; RELOCATE FILING CABINETS PER DIRECTION FROM THE OWNER IN THE FIELD
11	DEMOLISH EXTERIOR CERAMIC TILE ADJACENT TO DOOR THRESHOLD
12	DEMOLISH COLUMN FINISHES TO EXPOSE STRUCTURE
13	DEMOLISH CLOSET AND SHELVING
14	DEMOLISH RESTROOM SINKS AND COUNTERS
15	DEMOLISH WORKTOP, SHELVING, CASEWORK, ETC.
16	DEMOLISH WORKTOP AND SHELVING; REARRANGE WASHER AND DRYER MACHINES AND SERVICE SINK; SEE P SHEETS FOR ADDITIONAL WORK
17	DEMOLISH COAT RACKS AND SHELVING

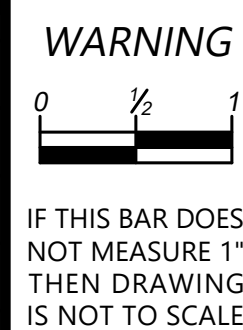
18	DEMOLISH RESTROOM FIXTURES, ACCESSORIES, WALL TILE, ETC.
19	DEMOLISH FABRIC WALL PANELS
20	DEMOLISH DISPLAY CASE
21	DEMOLISH COUNTER, CABINETS, AND SINK
22	RETAIN AND REINSTALL DOOR FRAME, LEAF, AND RELITE
23	DEMOLISH LIBRARY WALLS; RETAIN METAL SIDING
24	NOT USED
25	DEMOLISH BENCH REFRIGERATOR AREA, AND RECYCLING AREA
26	REFRIGERATOR RELOCATED BY OWNER PRIOR TO CONSTRUCTION
27	DEMOLISH ALL WALL TILE AT WOMEN'S ROOM

28	SURFACE PREP GLAZED CMU FOR NEW COATING SYSTEM
29	DEMOLISH PRIVACY STALLS AND DOORS
30	DEMOLISH WOODEN BENCH
31	DEMOLISH WINDOW, SAWCUT NEW WINDOW OPENING AND PREP OPENING FOR NEW WINDOWS
32	EXISTING MAIN TELEMETRY UNIT ("BLUE BOX") SHALL BE PRESERVED AND PROTECTED IN PLACE DURING CONSTRUCTION
33	DEMOLISH DISPATCH MAILBOX
34	DEMOLISH LAMINATE WALL PANELING
35	RETAIN DOOR FRAME, AND LEAF; REINSTALL AS DOOR #2 @ NEW CONFERENCE 3
36	RETAIN DOOR FRAME, AND LEAF; REINSTALL AS DOOR #3 @ HALL 35

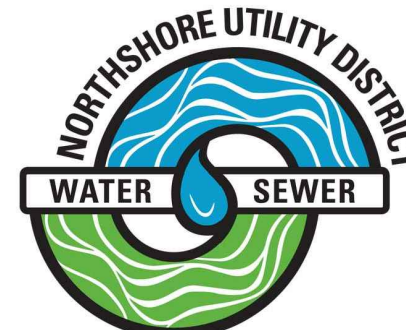
GENERAL WALL AND ITEMS DEMO PLAN
SCALE: 3/32"=1'-0"



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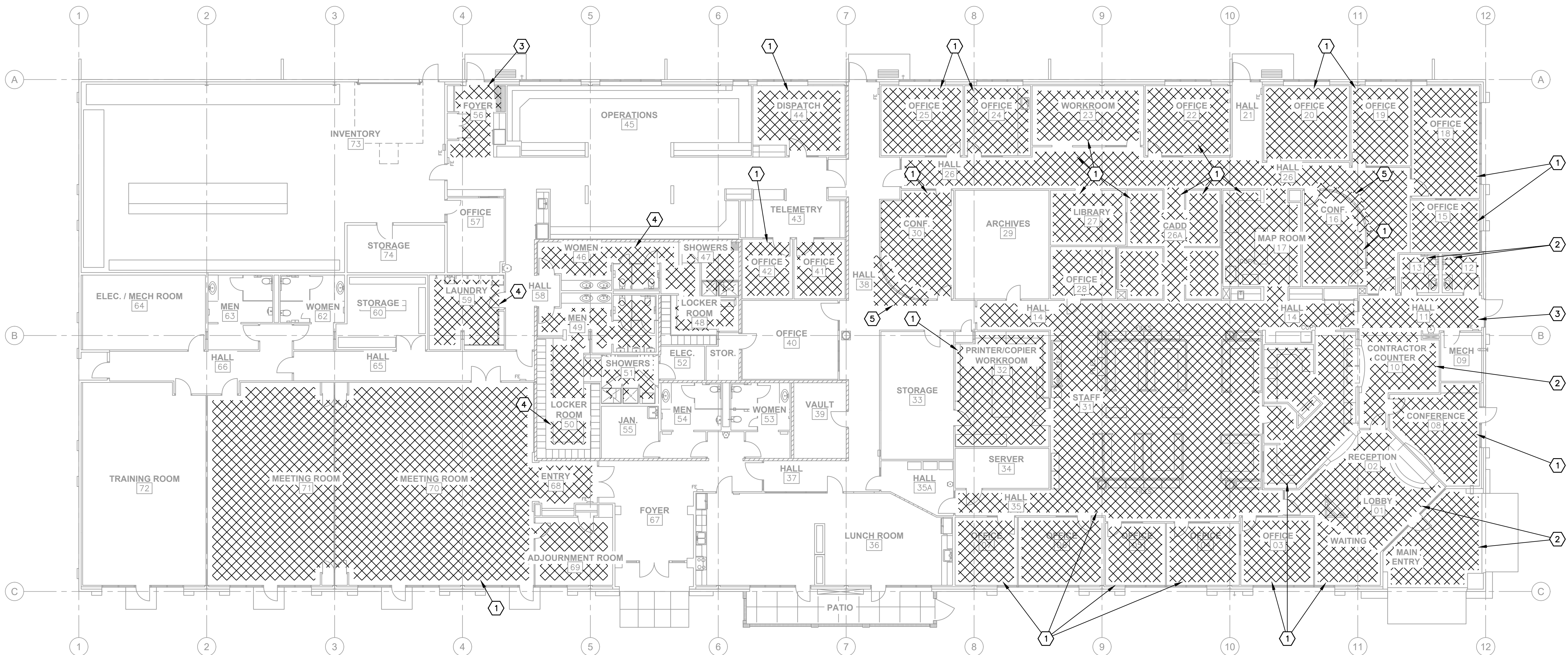
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CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS

GENERAL DEMOLITION FLOOR PLAN

SHEET

A-3
OF 24

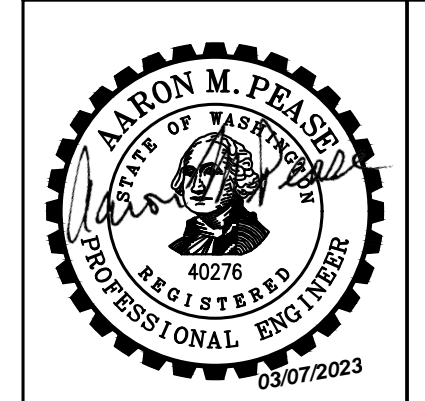


#	NOTES
1	DEMOLISH CARPET FLOORING*
2	DEMOLISH TILE FLOORING*
3	DEMOLISH HIGH TRAFFIC CARPET FLOORING*
4	DEMOLISH RESILIENT FLOORING*
5	DEMOLISH FLOORING AS REQUIRED FOR NEW WALL INSTALLATION

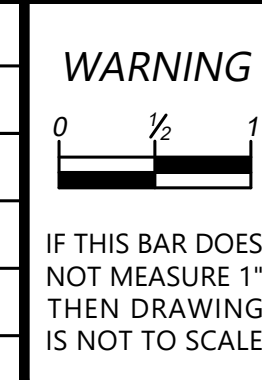
* ALL FLOOR AREAS TO RECEIVE NEW FLOORING SHALL ALSO INCLUDE SURFACE PREP PER THE SPECIFICATIONS AND AS REQUIRED BY THE FLOORING MANUFACTURER.

- NOTES:**
- CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS AND EXTENT OF DEMOLITION WORK PRIOR TO BIDDING.
 - CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO STARTING THE WORK.
 - THE CONTRACTOR SHALL PROTECT ALL EXISTING FINISHES, MATERIALS, STRUCTURAL ELEMENTS, ELECTRICAL, MECHANICAL, AND PLUMBING THAT ARE NOT A PART OF THE WORK. ANY SURFACES DAMAGED BY THE CONTRACTOR'S ACTIVITIES SHALL BE REPAIRED TO AN EXISTING OR BETTER CONDITION BY THE CONTRACTOR.
 - SURFACE PREP FOR EXISTING CONCRETE FLOORS SHALL INCLUDE FULL REMOVAL OF EXISTING GLUE AND/OR BEDDING COMPOUND RESIDUES SUCH THAT FLOOR FLATNESS MEETS OR EXCEEDS 1/8" IN 10'. FLOORS SHALL BE CLEAN, DRY, AND FREE OF DUST AND DEBRIS PRIOR TO FLOORING FINISH INSTALLATION.

FLOORING DEMO PLAN
SCALE: 3/32"=1'-0"



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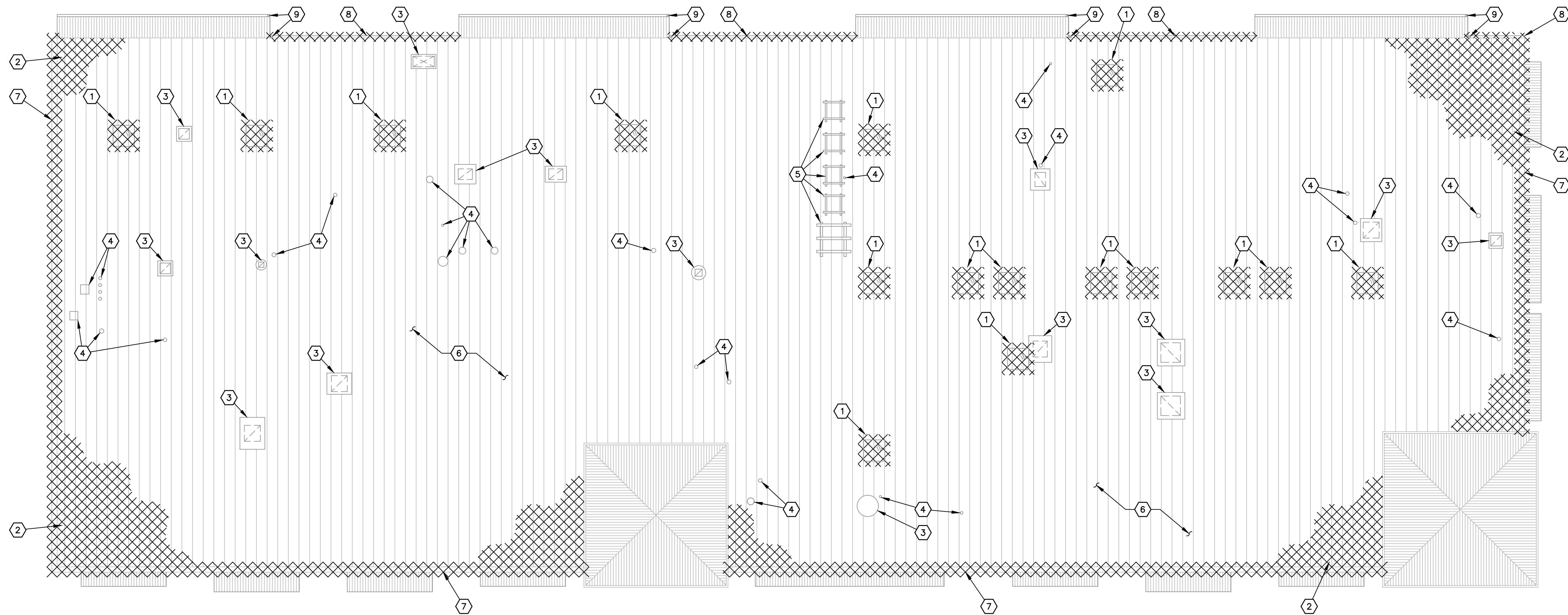
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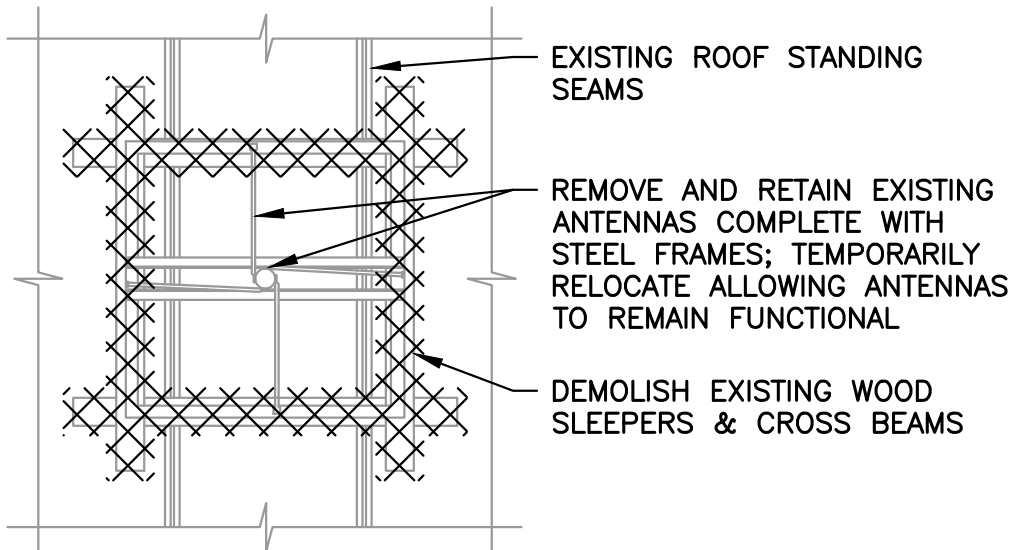
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CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS
FLOORING FINISHES DEMOLITION PLAN

SHEET
A-3.1
OF 24



#	NOTES
1	DEMOLISH ALL SKYLIGHTS
2	DEMOLISH ALL ROOFING
3	REMOVE AND RETAIN EXISTING HVAC EQUIPMENT FOR REINSTALLATION
4	EXISTING ELECTRICAL OR PLUMBING PENETRATIONS
5	REMOVE EXISTING WOOD ANTENNA BASES; COORDINATE CONTINUOUS OPERATION OF ANTENNA W/ OWNER; SEE NOTE 6
6	GENERAL AREA INSULATION DEMO/REPAIRS; SEE NOTE 5
7	DEMOLISH PARAPET FLASHING
8	DEMOLISH GUTTER
9	4"Ø DOWNSPOUT TO REMAIN

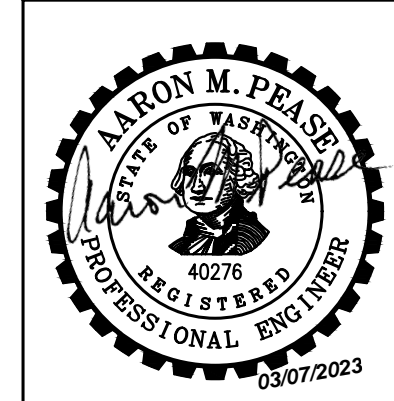


1
TYP
TYPICAL ANTENNA BASE DEMOLITION DETAIL
SCALE: 1/2"=1'-0"

DEMO ROOF PLAN
SCALE: 3/32"=1'-0"

NOTES:

- CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS AND EXTENT OF DEMOLITION WORK PRIOR TO BIDDING.
- NOT ALL ROOF PENETRATIONS OR APPURTENANCES MAY BE SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY PENETRATIONS AND APPURTENANCES.
- CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO STARTING THE WORK.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING FINISHES, MATERIALS, STRUCTURAL ELEMENTS, ELECTRICAL, MECHANICAL, AND PLUMBING THAT ARE NOT A PART OF THE WORK. ANY SURFACES DAMAGED BY THE CONTRACTOR'S ACTIVITIES SHALL BE REPAIRED TO AN EXISTING OR BETTER CONDITION BY THE CONTRACTOR.
- THIS FACILITY HAS EXPERIENCED ROOF WATER LEAKS IN THE PAST. AS A RESULT, IT IS ANTICIPATED AREAS OF COVER EXISTING INSULATION AND VAPOR BARRIER WILL BE WET, DAMAGED AND/OR DETERIORATED. THESE AREAS SHALL BE REMOVED AND REPLACED W/ NEW BATT INSULATION AND VAPOR BARRIER TO MATCH EXISTING. IT SHALL BE ASSUMED THERE ARE A TOTAL OF 15 - 10'x10' AREAS THAT REQUIRE REPLACEMENT.
- CONTRACTOR AND ELECTRICIAN SHALL BE RESPONSIBLE TO ENSURE ANTENNAS CAN REMAIN IN OPERATION W/ MINIMAL DISRUPTION. ANY PROPOSED OUTAGES SHALL BE COORDINATED W/ THE OWNER A MINIMUM OF 1 WEEK IN ADVANCE.

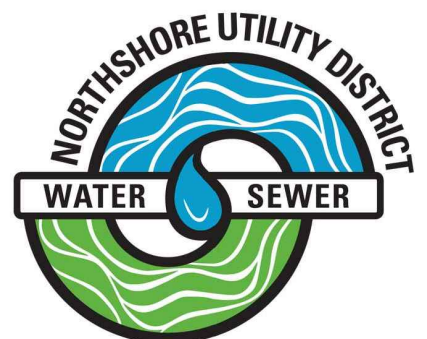


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BUILDING "A" IMPROVEMENTS
DEMOLITION ROOF PLAN

SHEET
A-3.3
OF 24



DEMO GLASS BLOCK AND WALL

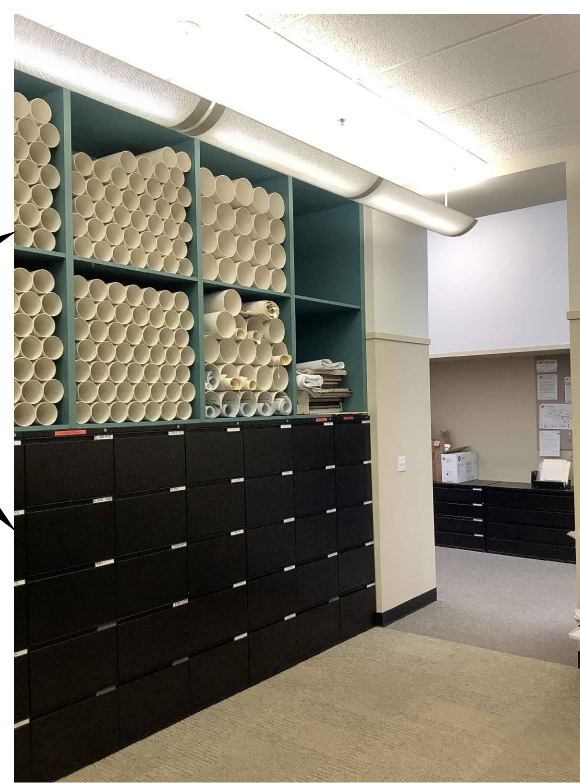
DEMO FOUNTAIN

1
TYP
DEMO LOBBY 01 FOUNTAIN
SCALE: NTS



DEMO COUNTER AND SHELVING

2
TYP
DEMO CONTRACTOR COUNTER 10
SCALE: NTS



DEMO SHELVING

RELOCATE FILING CABINETS PER DIRECTION FROM THE OWNER IN THE FIELD

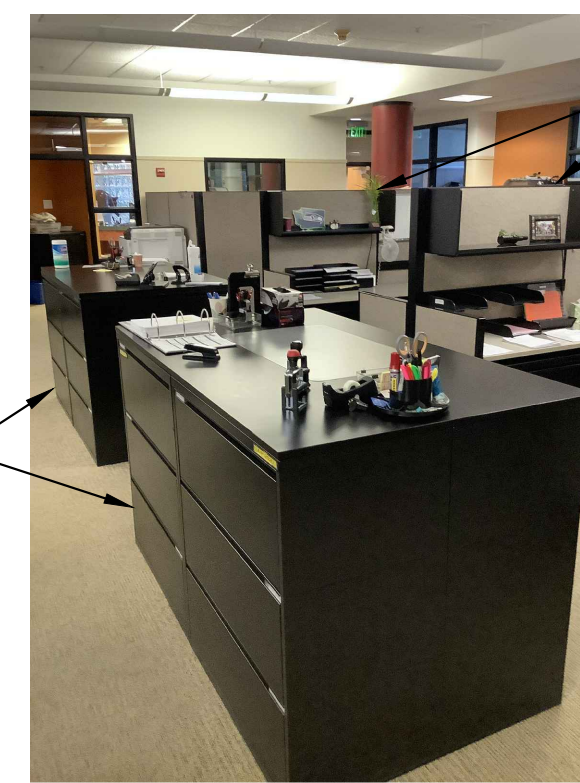
DEMO PLAN STORAGE

3
TYP
DEMO MAP ROOM 17
SCALE: NTS



DEMO COUNTER AND FILE STORAGE

4
TYP
DEMO MAP ROOM 17
SCALE: NTS

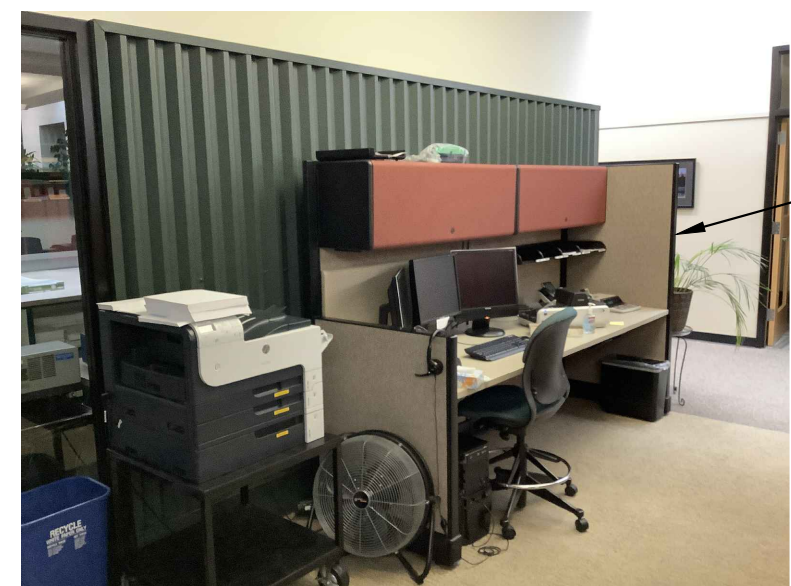


DEMO CUBICLES

DEMO CASEWORK

RELOCATE FILING CABINETS PER DIRECTION FROM THE OWNER IN THE FIELD

5
TYP
DEMO STAFF AREA 31
SCALE: NTS



DEMO WORKSTATION

6
TYP
DEMO STAFF 31 WORKSTATION
SCALE: NTS



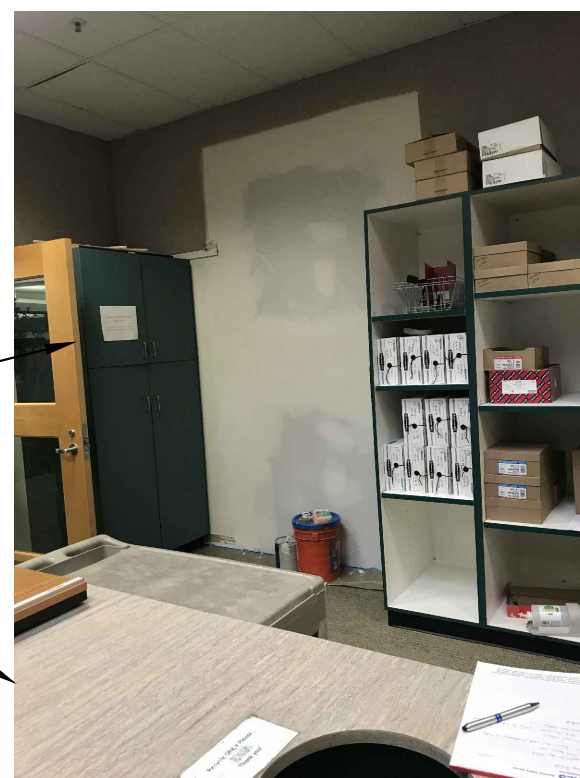
DEMO SHELVING

DEMO CABINET

DEMO COUNTER AND CASEWORK

DEMO ISLAND

7
TYP
DEMO WORKROOM 32
SCALE: NTS



DEMO SHELVING

DEMO CASEWORK AND PASS-THRU SHELVING

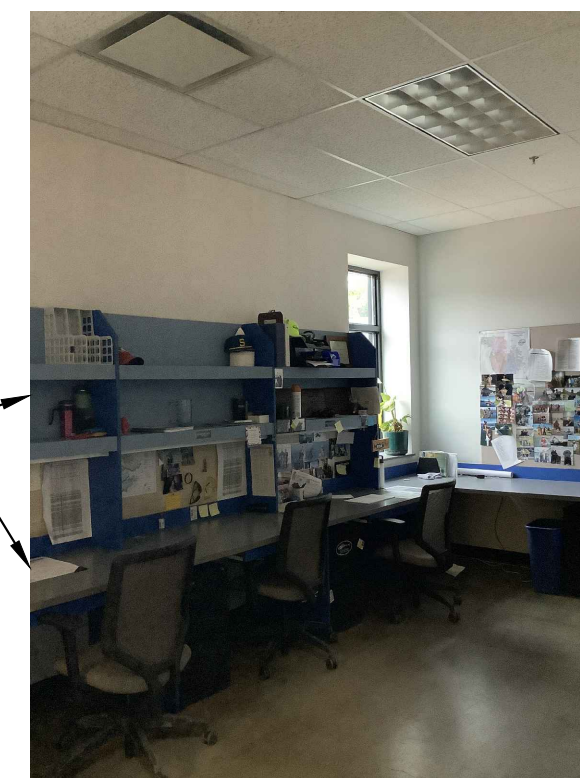
8
TYP
DEMO WORKROOM 32
SCALE: NTS



DEMO SHELVING

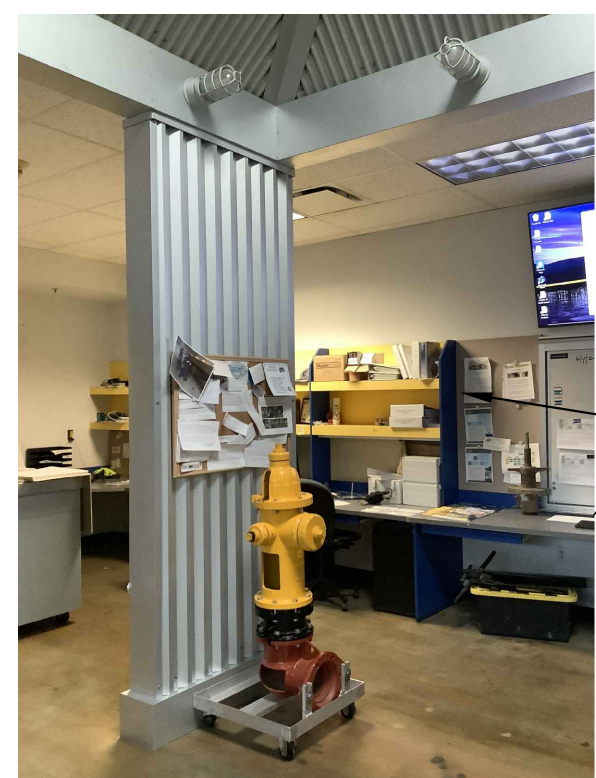
DEMO CASEWORK AND PASS-THRU SHELVING

9
TYP
DEMO DISPATCH 44 SHELVING
SCALE: NTS



DEMO COUNTER AND SHELVING

10
TYP
DEMO OPS 45 WORKSTATIONS
SCALE: NTS



DEMO COUNTER AND SHELVING

11
TYP
DEMO OPS 45 COMMON AREA
SCALE: NTS



DEMO COUNTER AND CASEWORK

12
TYP
DEMO FOYER 56
SCALE: NTS



DEMO COUNTER AND CASEWORK

13
TYP
DEMO HALL 58 BREAK AREA
SCALE: NTS

RELOCATE WASH SINK

DEMO AND/OR RELOCATE STEEL CABINETS PER DIRECTION FROM THE OWNER IN FIELD



DEMO COUNTER AND SHELVING

REARRANGE LAUNDRY MACHINES

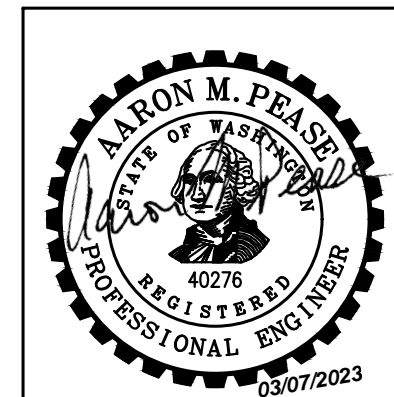
14
TYP
DEMO LAUNDRY 59
SCALE: NTS



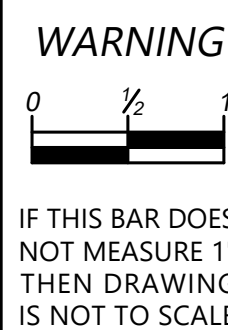
15
TYP
DEMO EXTERIOR WALL & WINDOW
SCALE: NTS

NOTES:

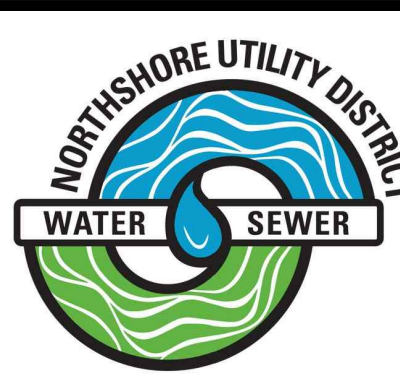
1. THESE PHOTOS ARE INTENDED TO SHOW THE GENERAL CONDITION OF MANY TYPICAL AREAS OF THE BUILDING THAT WILL BE IMPACTED BY WORK. CONTRACTOR SHALL NOTE THAT NOT ALL AREAS OF WORK OR DEMOLITION ARE NECESSARILY COVERED HERE.
1. CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS AND EXTENT OF DEMOLITION WORK PRIOR TO BIDDING.
2. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO STARTING THE WORK.



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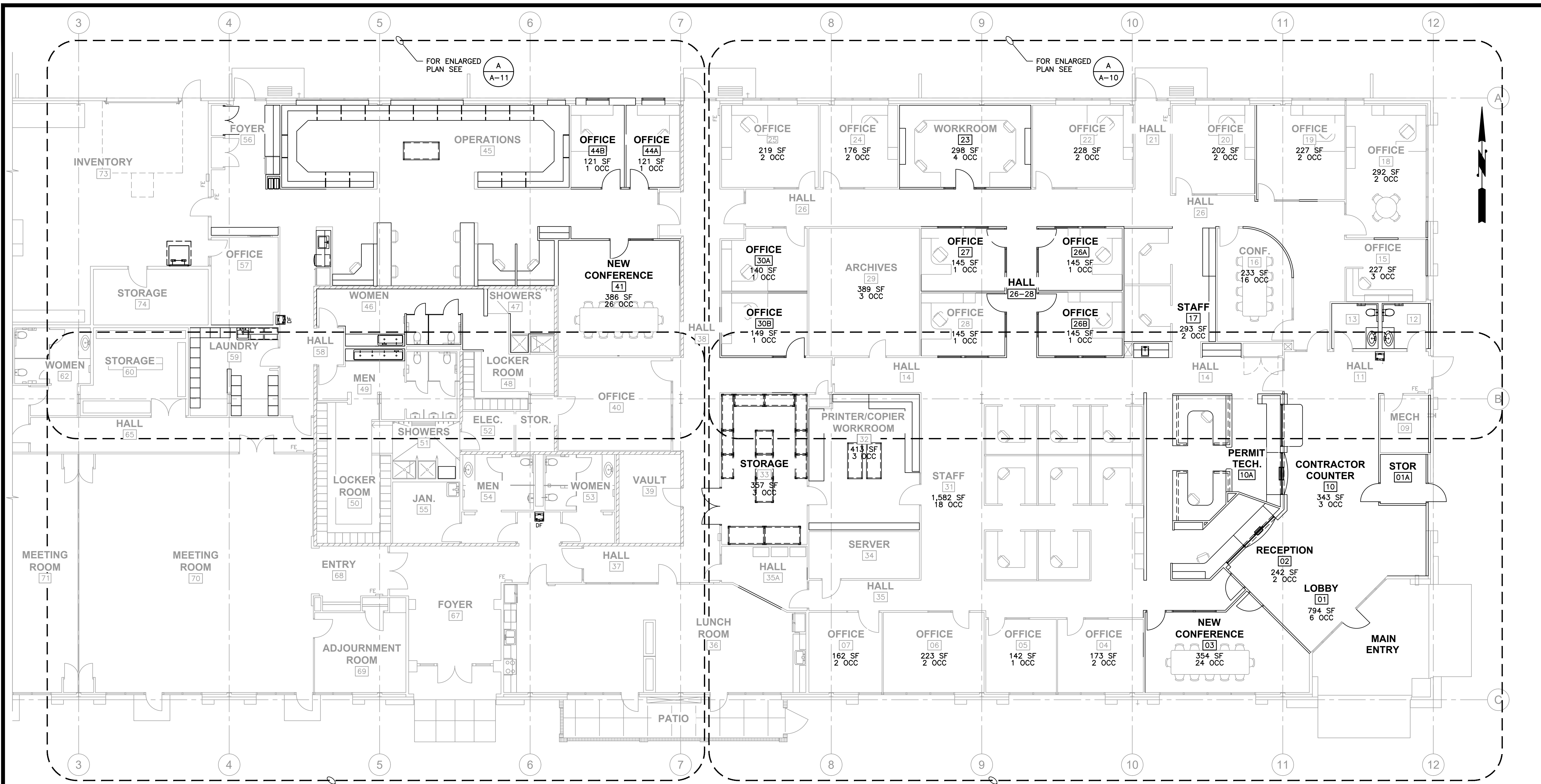
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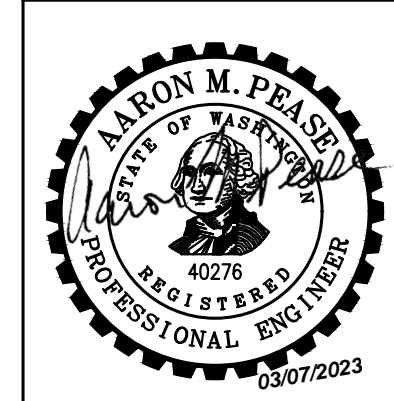
CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS
DEMOLITION PHOTO DETAILS

SHEET

A-3.4
OF 24



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

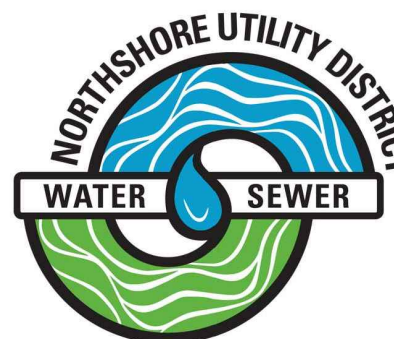


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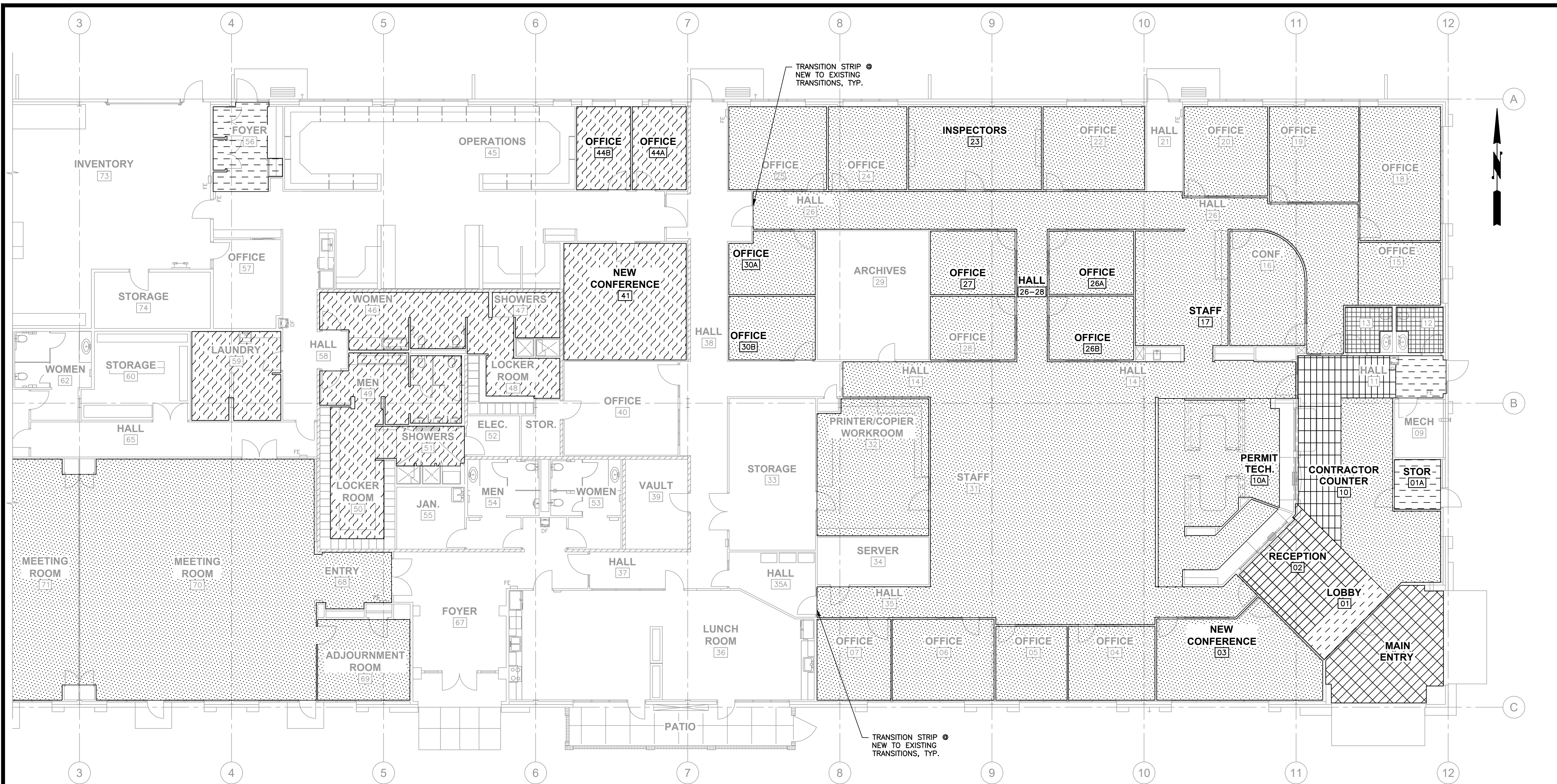
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CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS
PROPOSED FLOOR PLAN

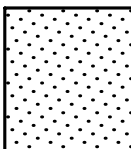
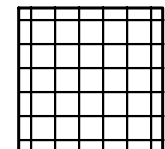
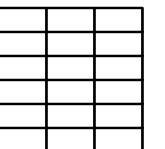
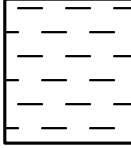
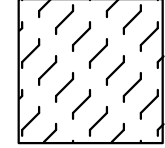
SHEET
A-4
OF 24

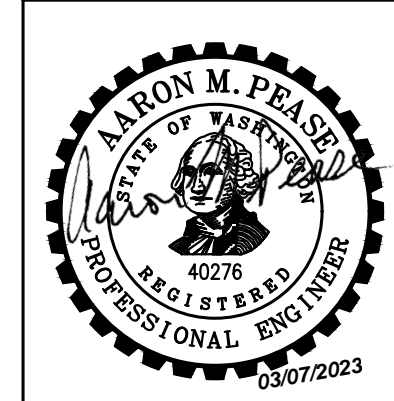


FLOORING FINISH PLAN
SCALE: 1/8"=1'-0"

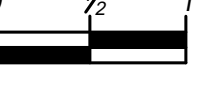
NOTE:
1. SEVERAL FLOOR FINISHES ARE BEING PROVIDED AND INSTALLED BY THE DISTRICT'S SELECTED VENDOR - THE LEGACY GROUP, RENTON, WA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURFACE PREP AND TO COORDINATE SCHEDULING WITH THE LEGACY GROUP.

LEGEND:

-  COMMERCIAL PILE CARPET TILE (BY LEGACY GROUP)
-  CERAMIC TILE (BY LEGACY GROUP)
-  LOBBY TILE (BY LEGACY GROUP)
-  RUBBER BACKED ENTRANCE CARPET TILE (BY LEGACY GROUP)
-  CONCRETE FLOOR COATING

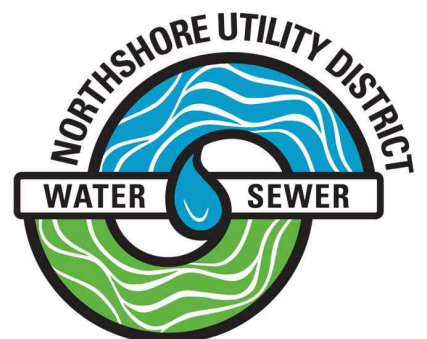


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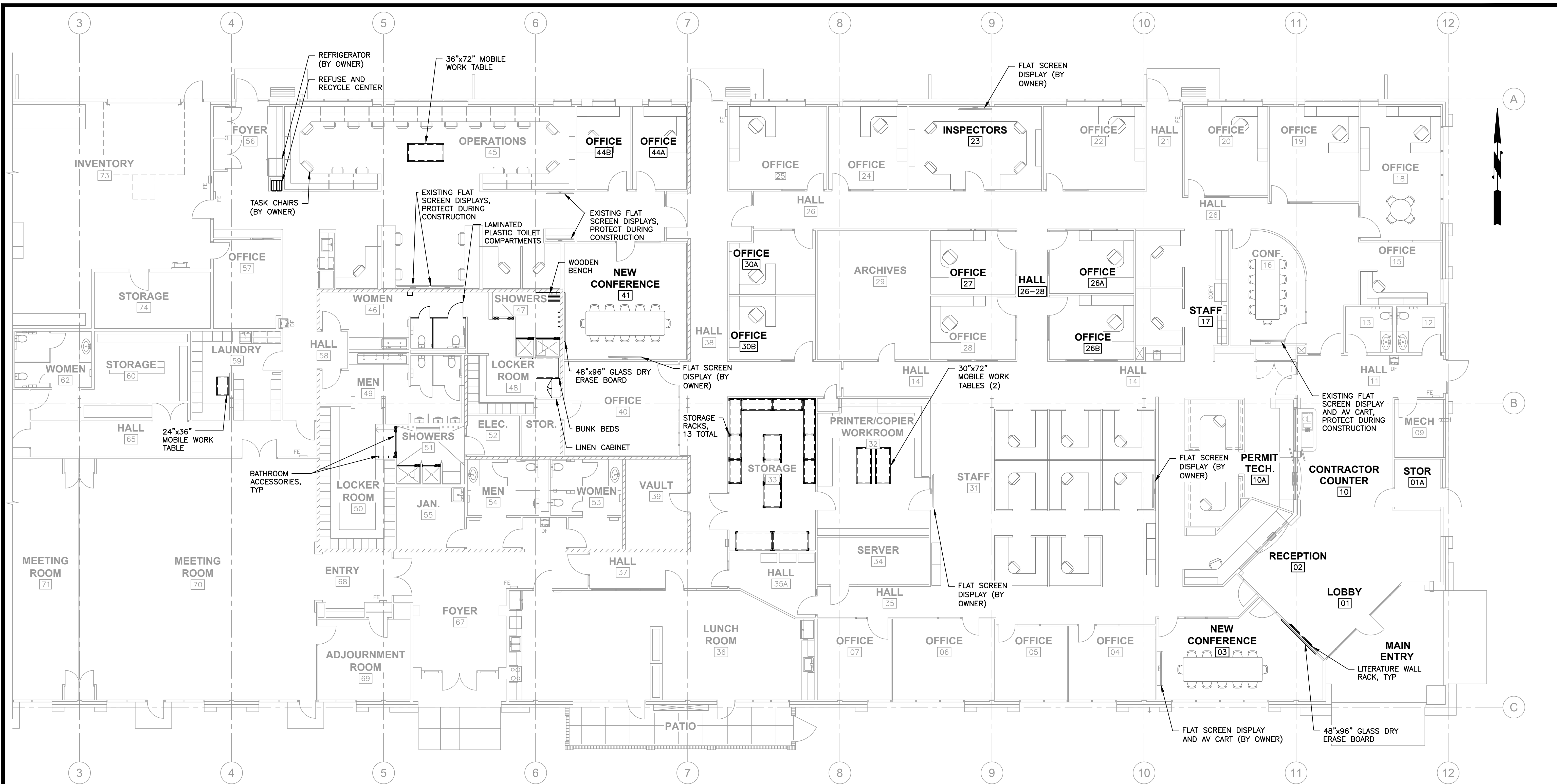


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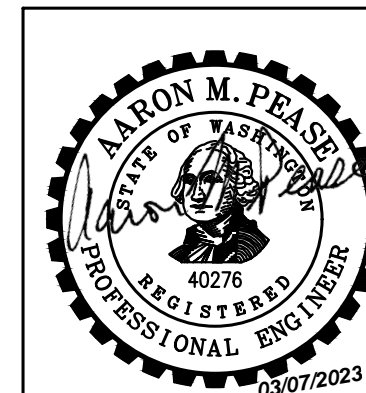
CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS
PROPOSED FLOORING PLAN



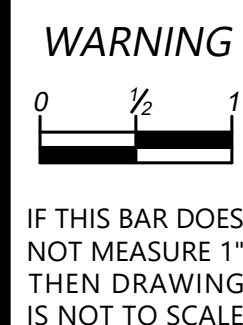
FURNISHINGS FLOOR PLAN
SCALE: 1/8"=1'-0"

NOTE:

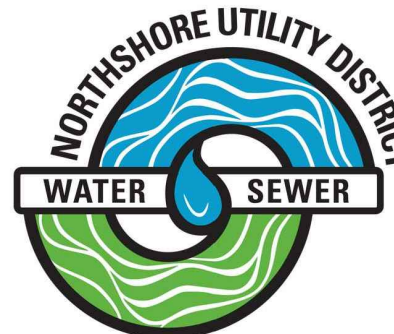
- SEE ENLARGED PLANS FOR ADDITIONAL DETAILED FURNISHING DESCRIPTIONS.



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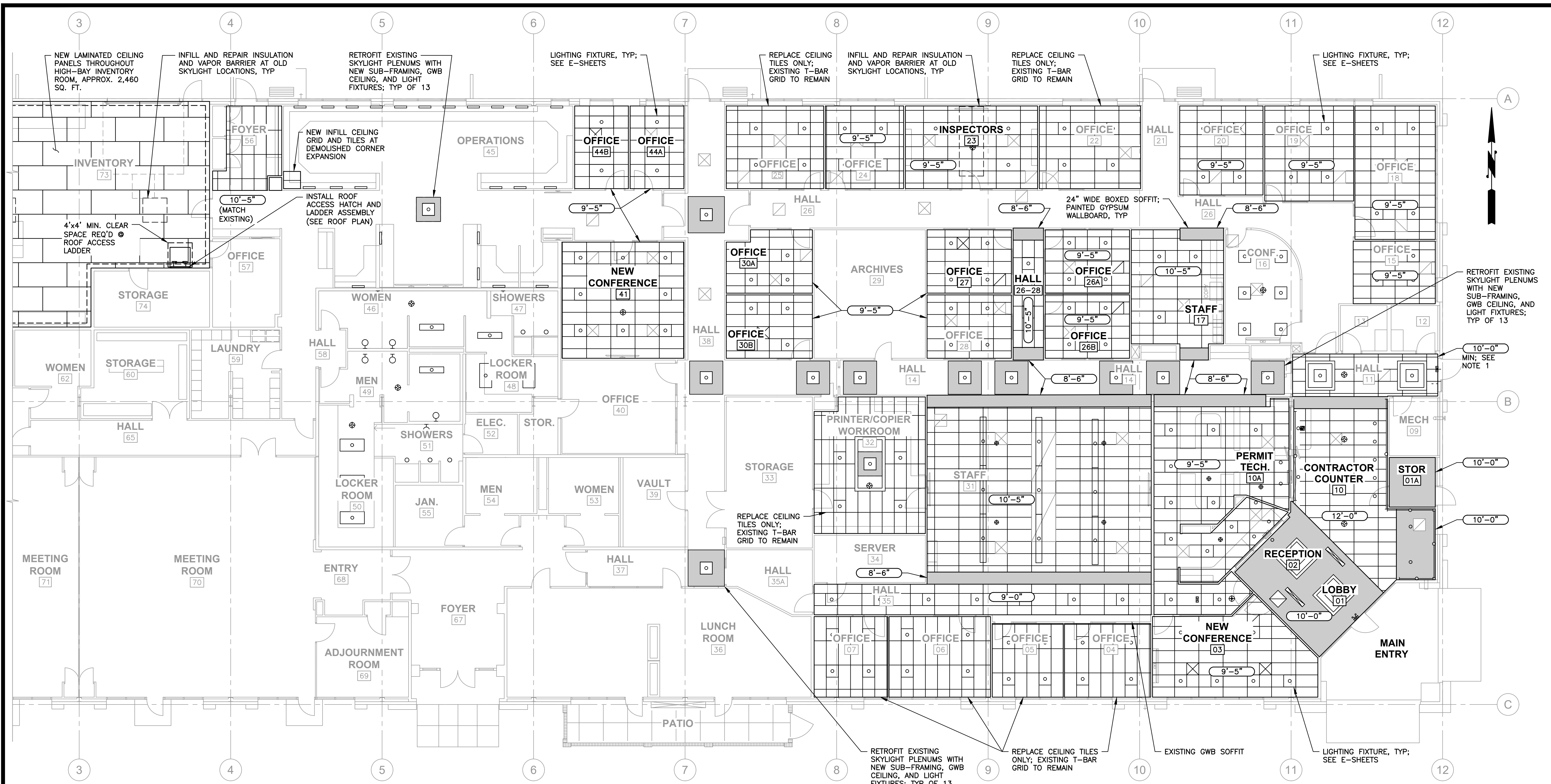
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CONTRACT 2023-01
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PROPOSED FURNISHINGS PLAN

SHEET

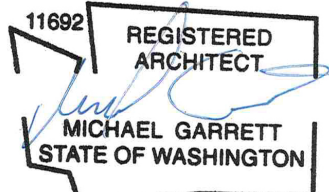
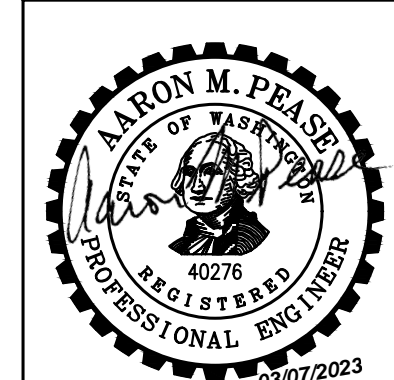
A-6
OF 24



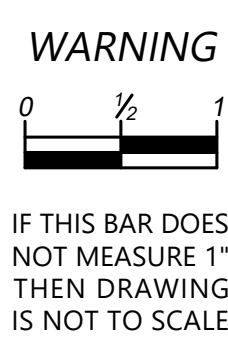
REFLECTED CEILING PLAN
SCALE: 1/8"=1'-0"

NOTE:
1. FIELD VERIFY AND CONSTRUCT CEILING HEIGHT TO BE AS HIGH AS POSSIBLE.

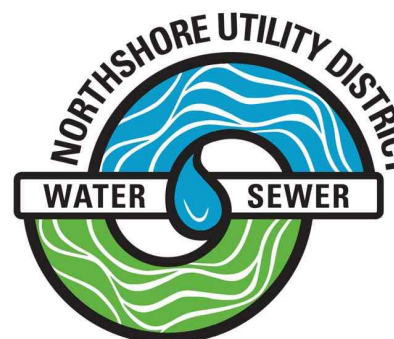
- LEGEND:**
- 2'x4' ACOUSTICAL CEILING TILE
 - RIGID PLASTIC LAMINATE CEILING SYSTEM
 - GWB
 - X'-X" CEILING ELEVATION ABOVE FINISHED FLOOR



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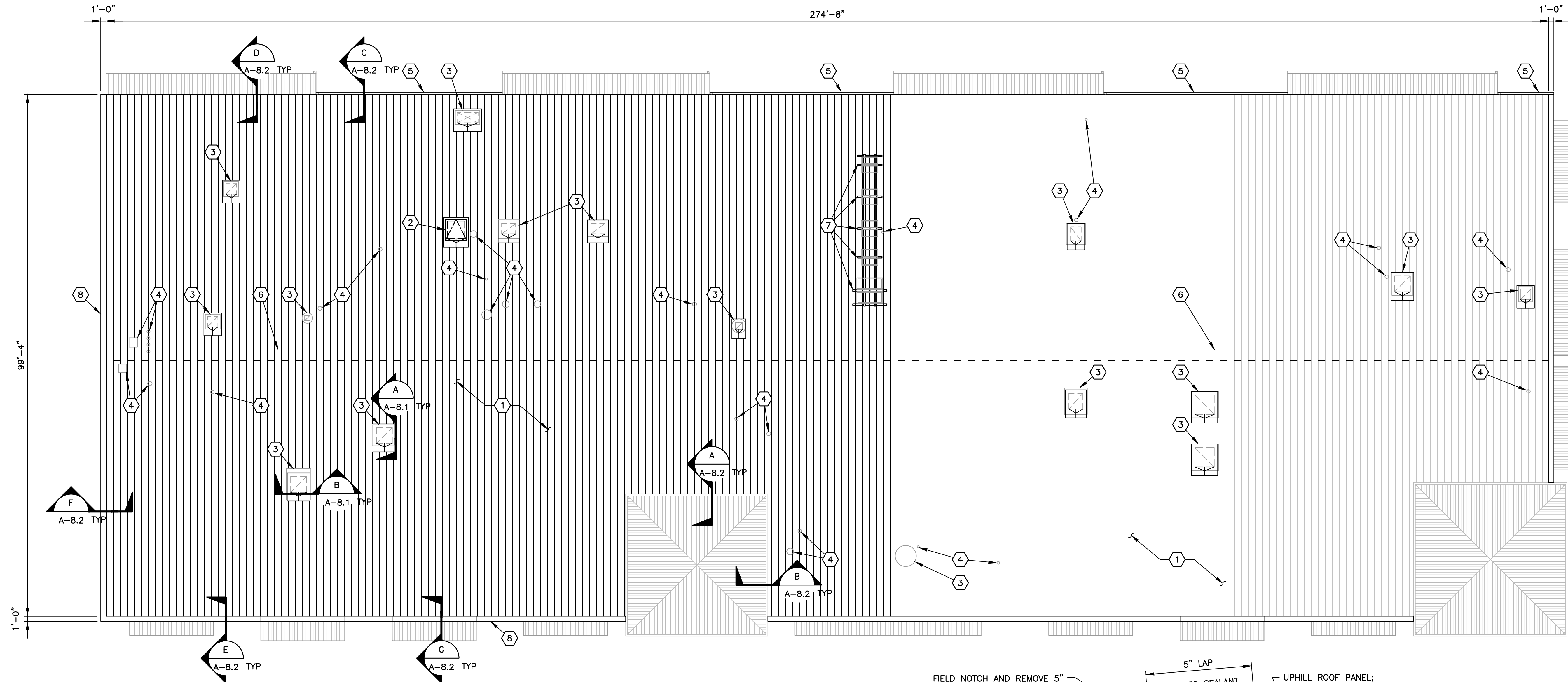
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CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS

PROPOSED REFLECTED CEILING PLAN

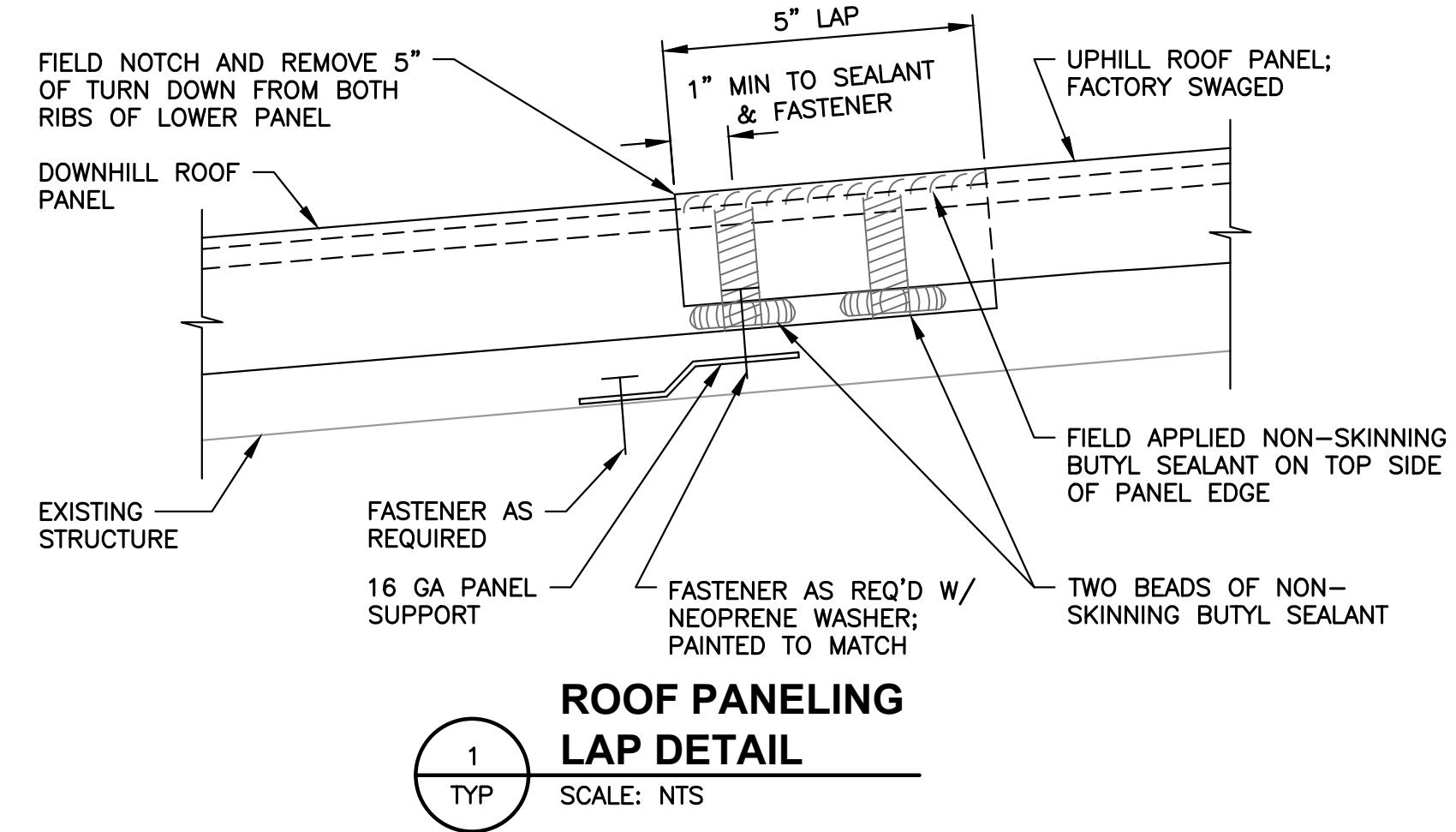
SHEET

A-7
OF 24

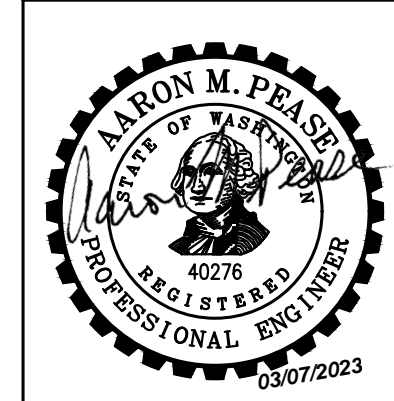


#	NOTES
1	INSTALL NEW METAL ROOF W/ ASSOCIATED INSULATION AND VAPOR BARRIER REPAIRS
2	INSTALL METAL ROOF ACCESS HATCH W/ FIXED LADDER BELOW
3	REINSTALL EXISTING HVAC W/ NEW ROOF CURB
4	INSTALL NEW BOOT FLASHING @ EXISTING ELECTRICAL AND PLUMBING PENETRATIONS
5	INSTALL NEW GUTTER
6	ROOFING PANEL LAP; SEE DETAIL
7	INSTALL NEW ANTENNA SUPPORT BASES; SEE DETAIL
8	INSTALL NEW PARAPET FLASHING

ROOF PLAN
SCALE: 3/32"=1'-0"



ROOF PANELING LAP DETAIL
SCALE: NTS



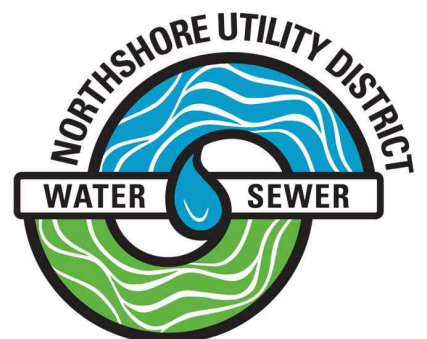
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WARNING
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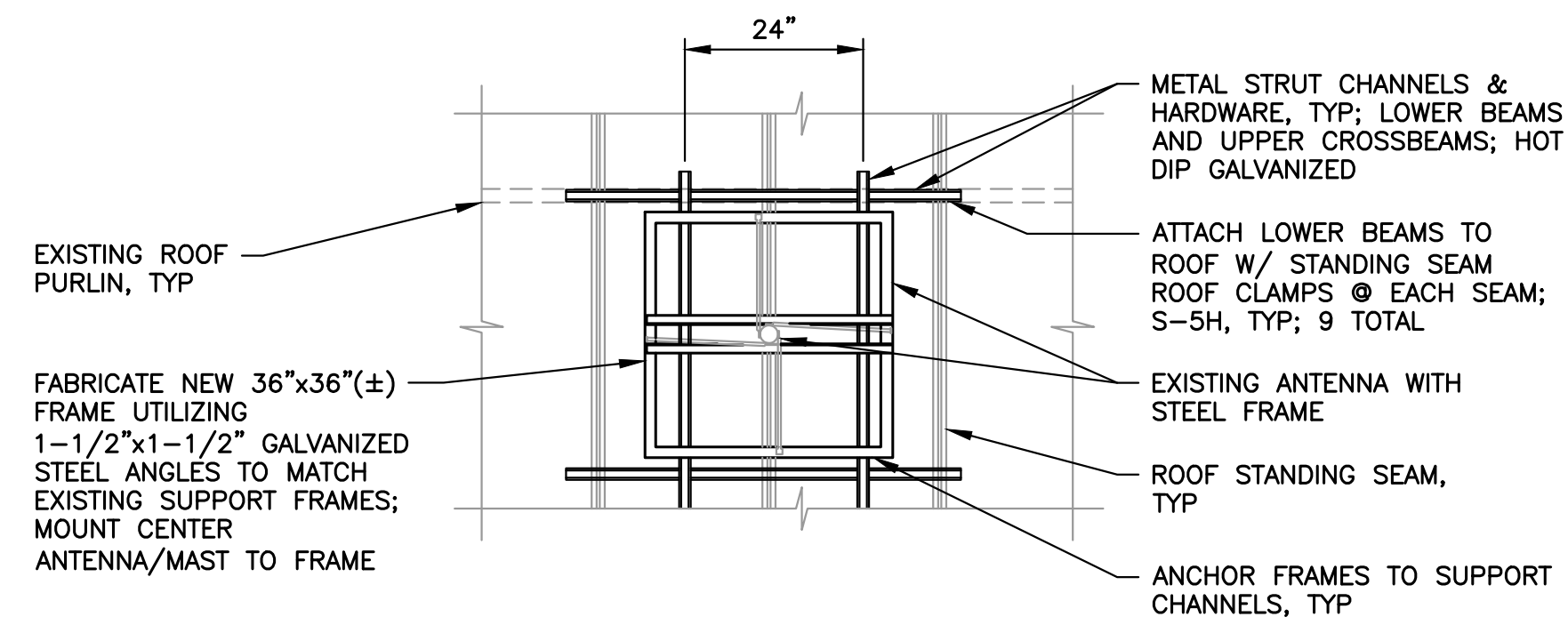
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BUILDING "A" IMPROVEMENTS
PROPOSED ROOF PLAN

SHEET
A-8
OF 24



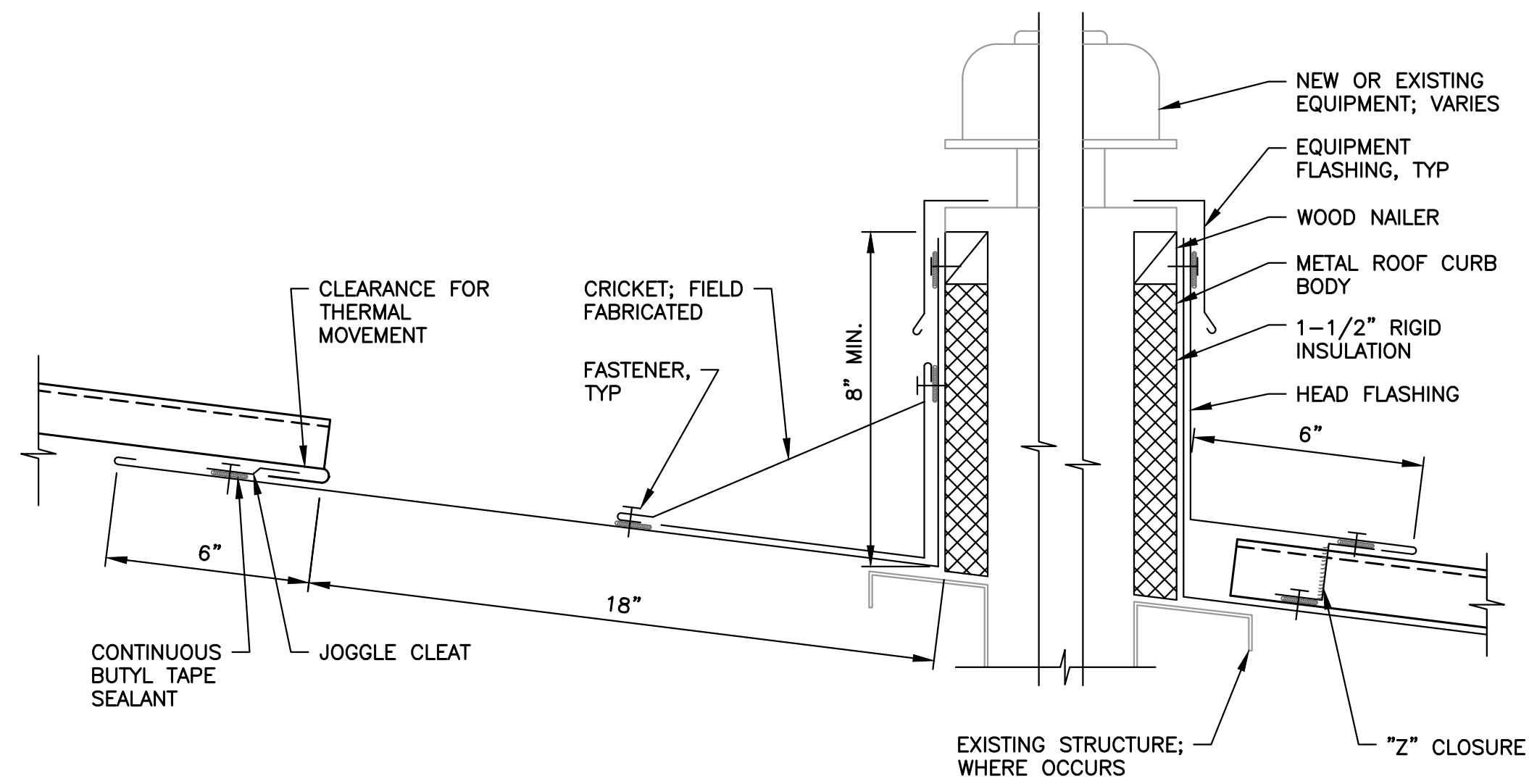
TYPICAL NEW ANTENNA BASE DETAIL

1
TYP

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

NOTE:

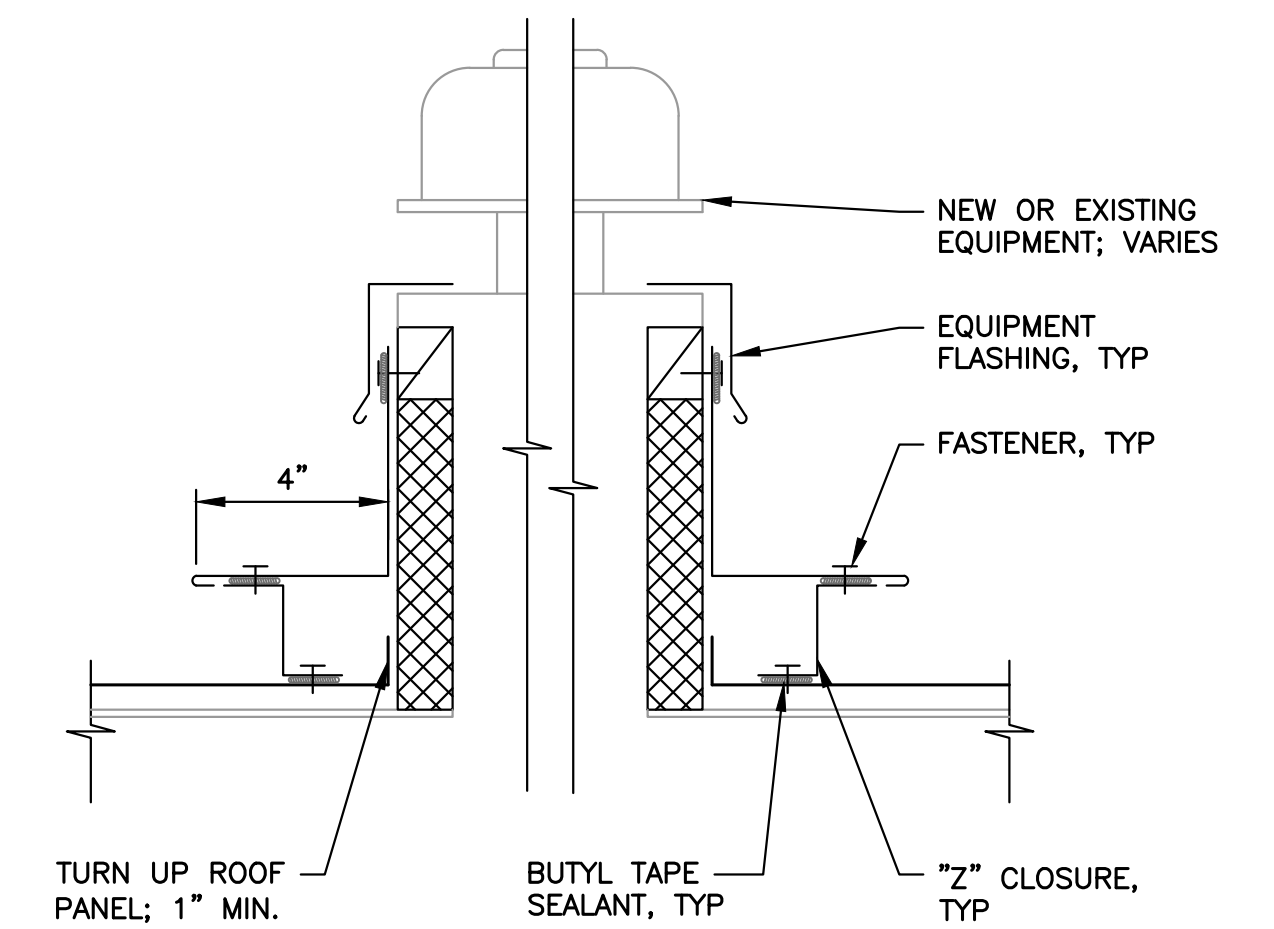
1. ANTENNA CONNECTIONS MUST REMAIN LIVE DURING CONSTRUCTION; COORDINATE W/ OWNER FOR TEMPORARY CABLING DISCONNECTIONS.



ROOF CURB DETAIL HIGH AND LOW SIDE

A
A-8

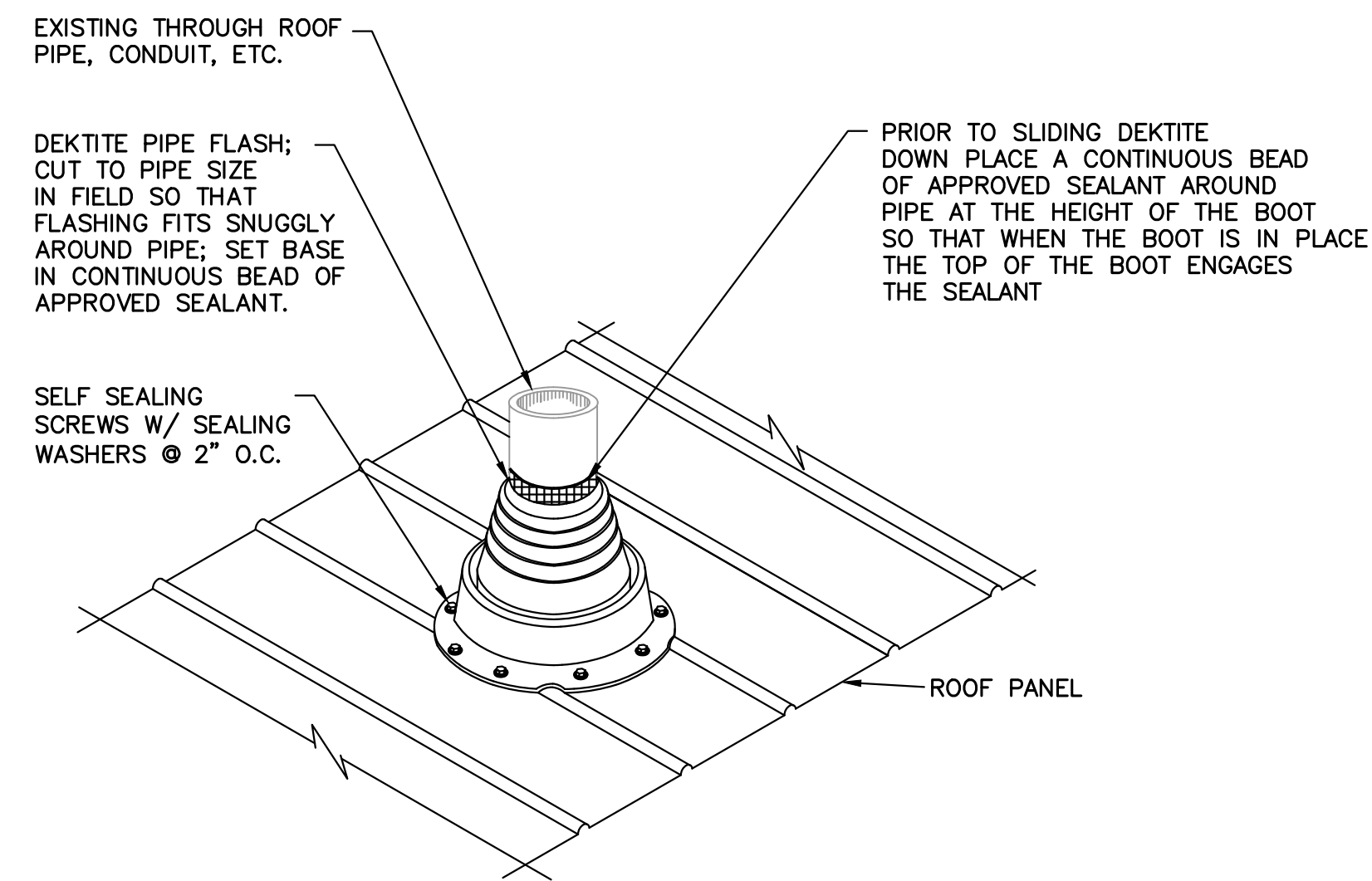
SCALE: 3"=1'-0"



ROOF CURB DETAIL RAKE SIDES

B
A-8

SCALE: 3"=1'-0"



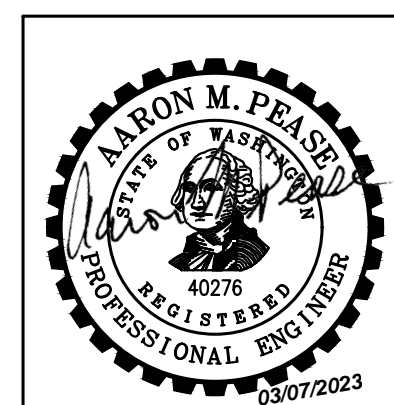
NOTES

1. THE DEKTITE PIPE FLASHING MUST BE FASTENED TO THE PANEL ONLY AND NOT INTO THE ROOF SUBSTRATE TO ALLOW TO PANEL TO MOVE THERMALLY.
2. PROVIDE ADEQUATE CLEARANCE BETWEEN THE PIPE AND PANEL.

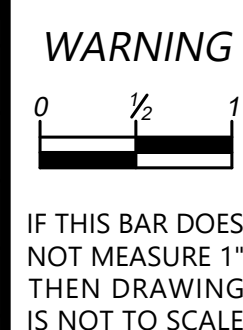
2 ROOF PIPE PENETRATION DETAIL

TYP

SCALE: NTS



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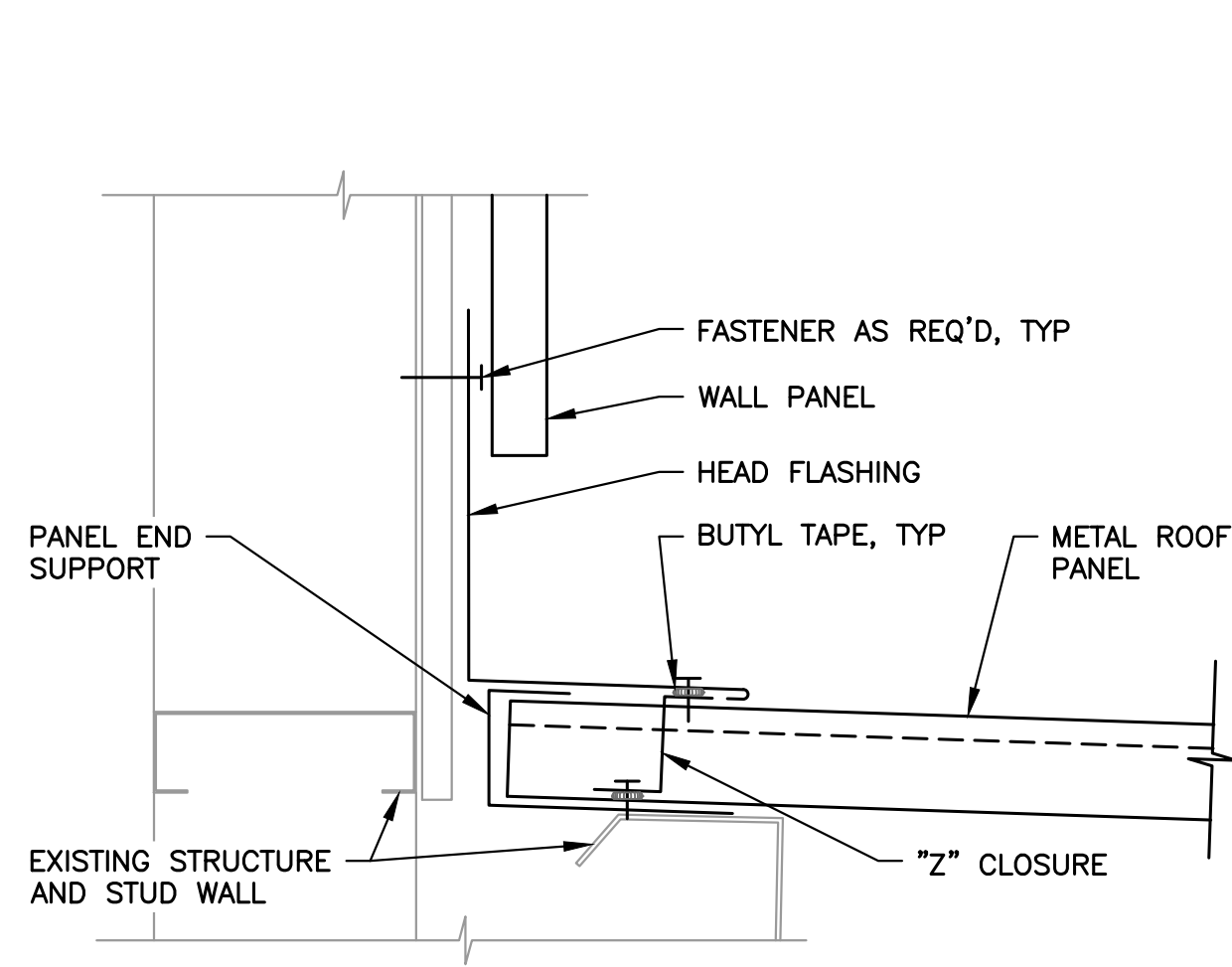
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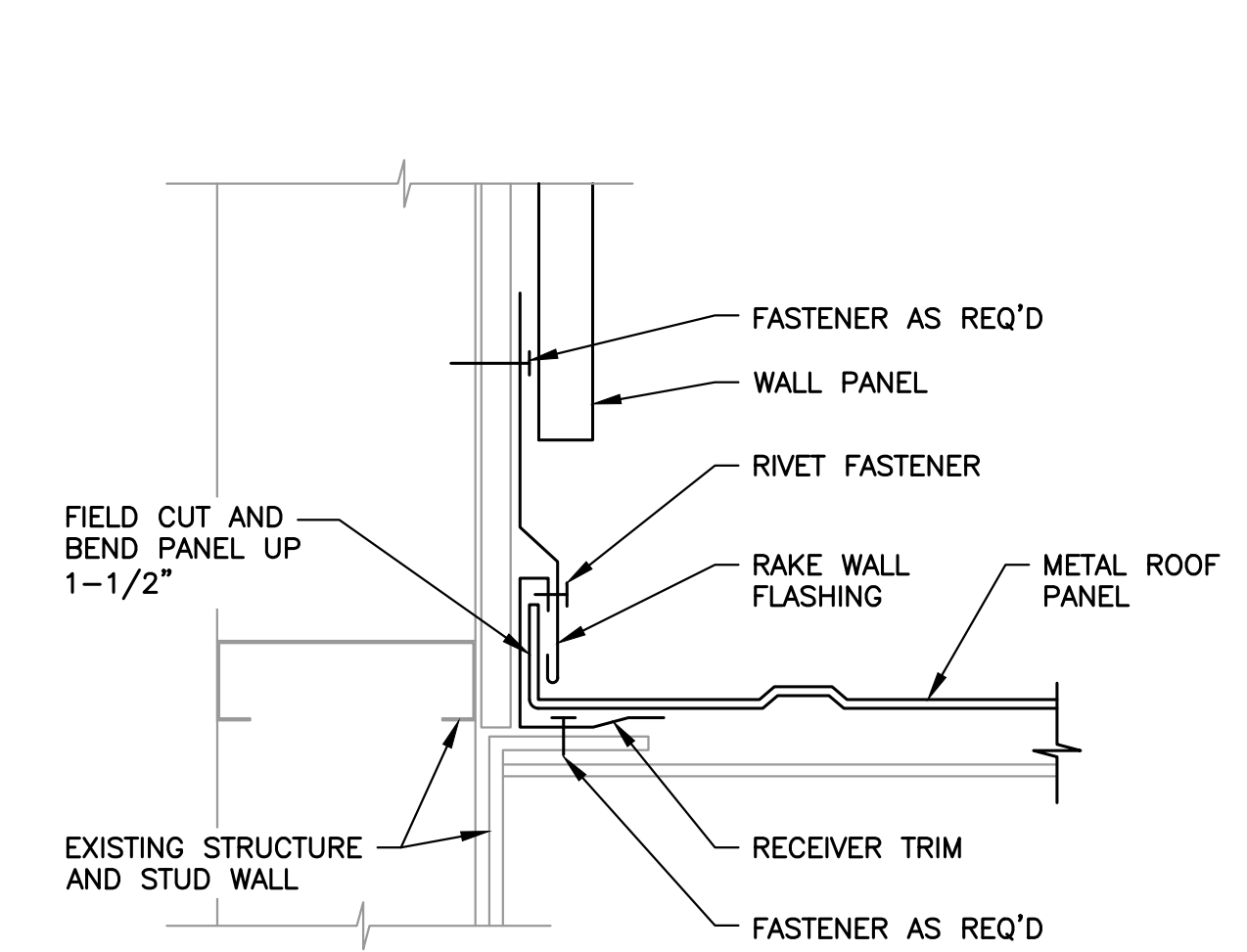
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ROOFING DETAILS 1

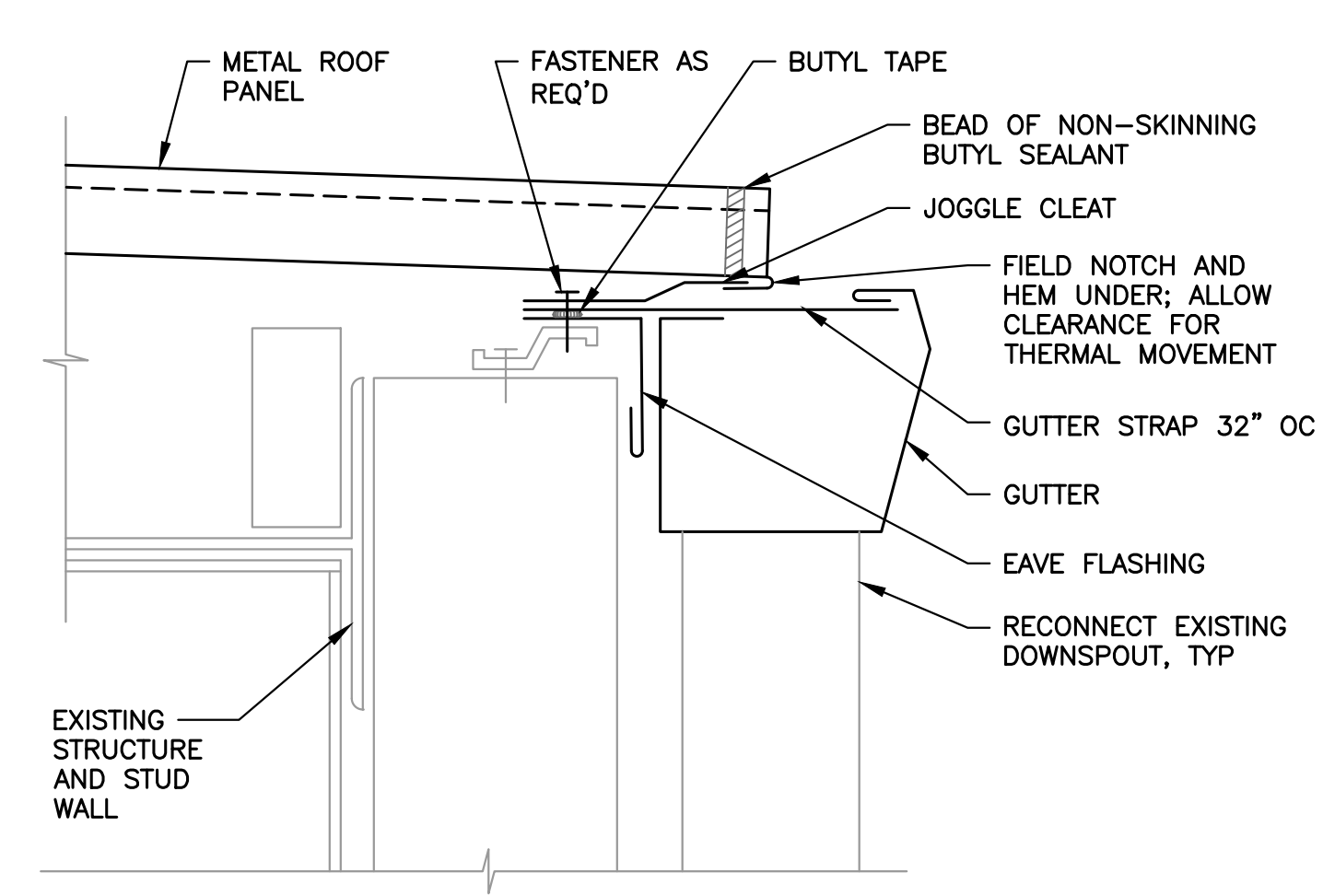
SHEET
 A-8.1
 OF 24



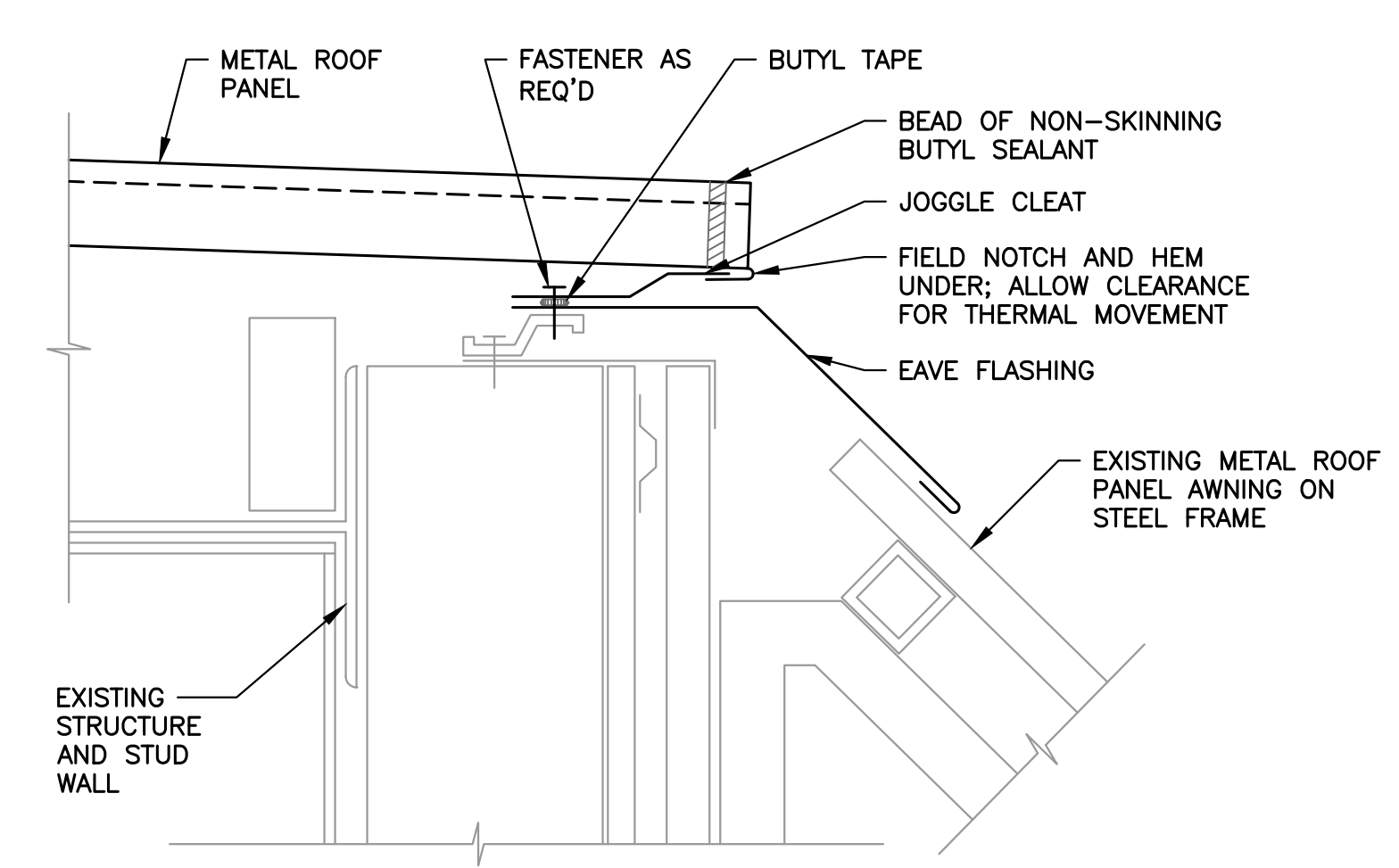
A
A-8 **HEAD DETAIL**
SCALE: 3"=1'-0"



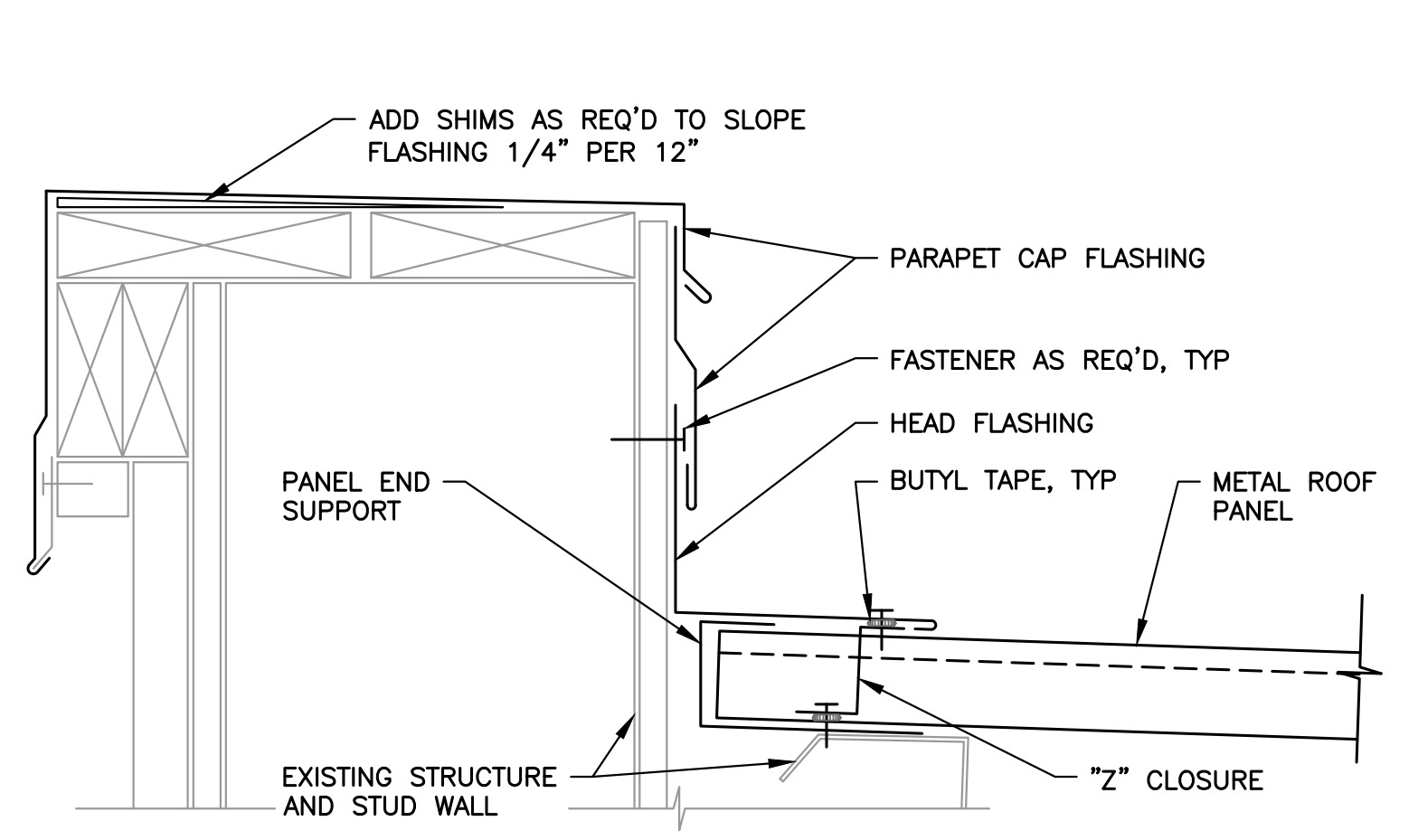
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A-8 **RAKE DETAIL**
SCALE: 3"=1'-0"



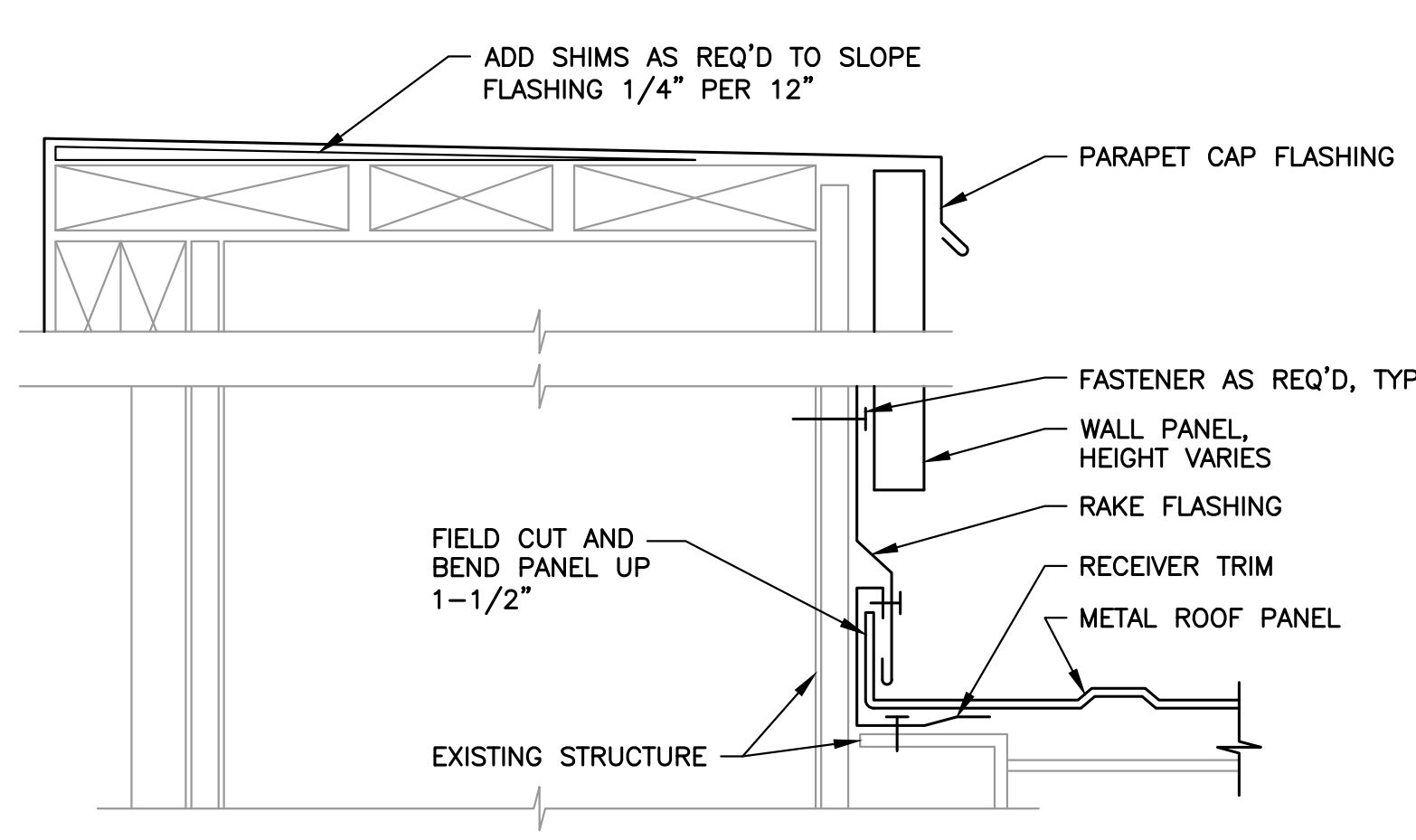
C
A-8 **GUTTER AND EAVE DETAIL**
SCALE: 3"=1'-0"



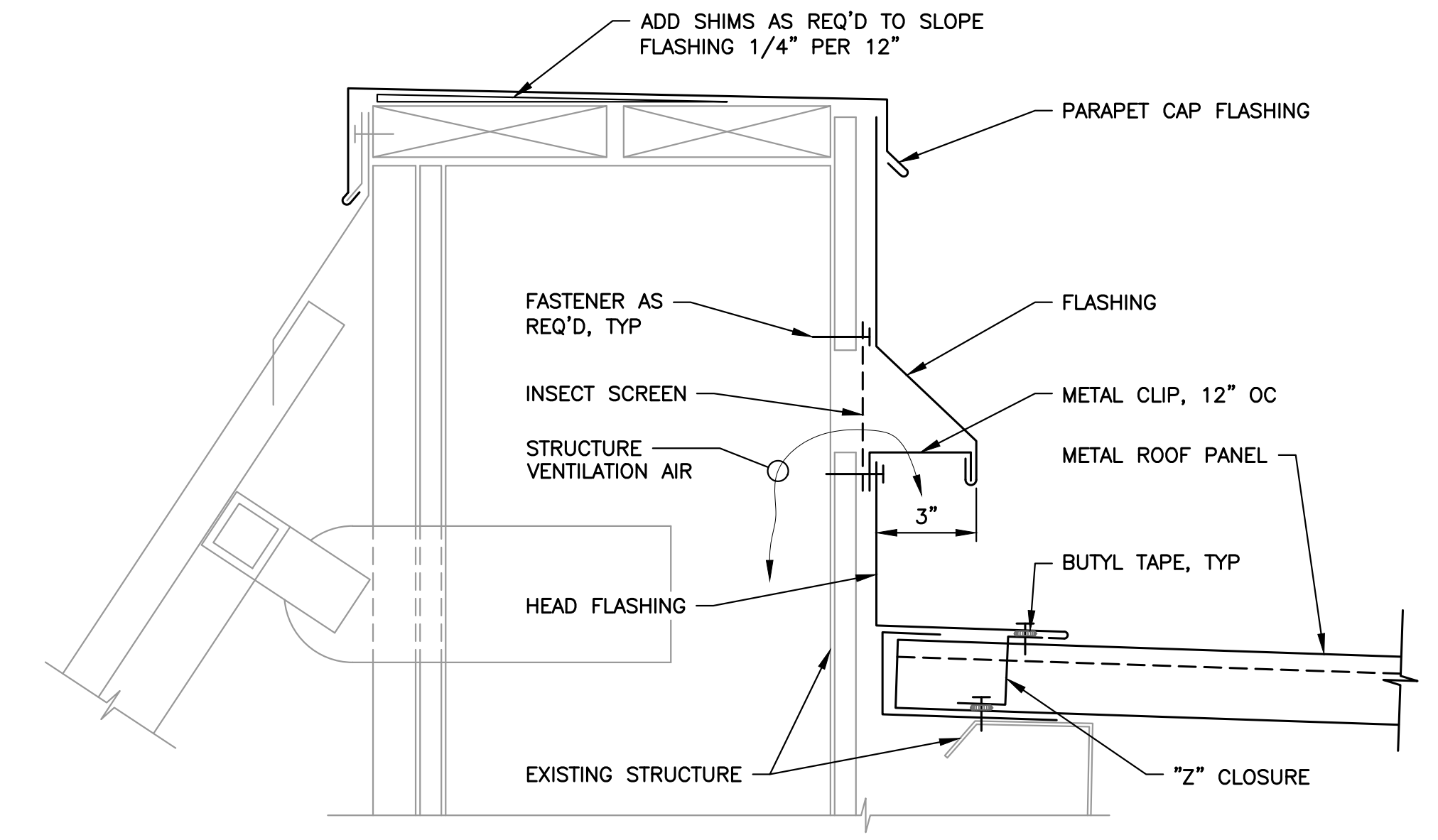
D
A-8 **EAVE DETAIL**
SCALE: 3"=1'-0"



E
A-8 **PARAPET HEAD DETAIL**
SCALE: 3"=1'-0"



F
A-8 **PARAPET RAKE DETAIL**
SCALE: 3"=1'-0"



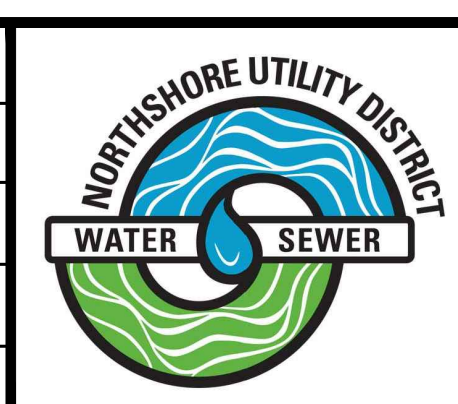
G
A-8 **PARAPET VENT HEAD DETAIL**
SCALE: 3"=1'-0"

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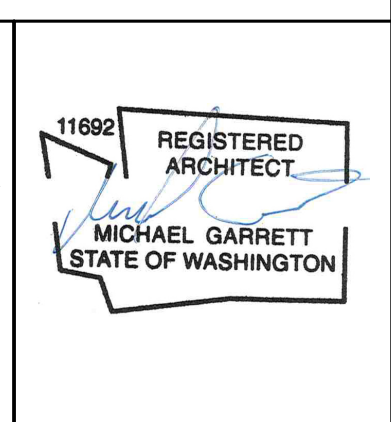
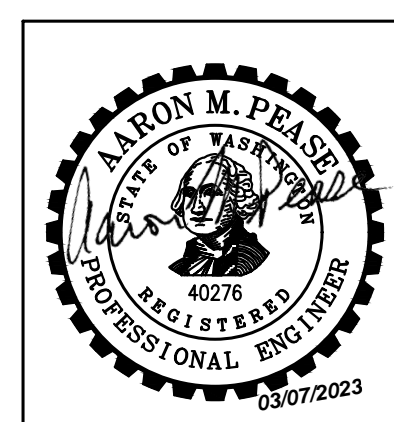


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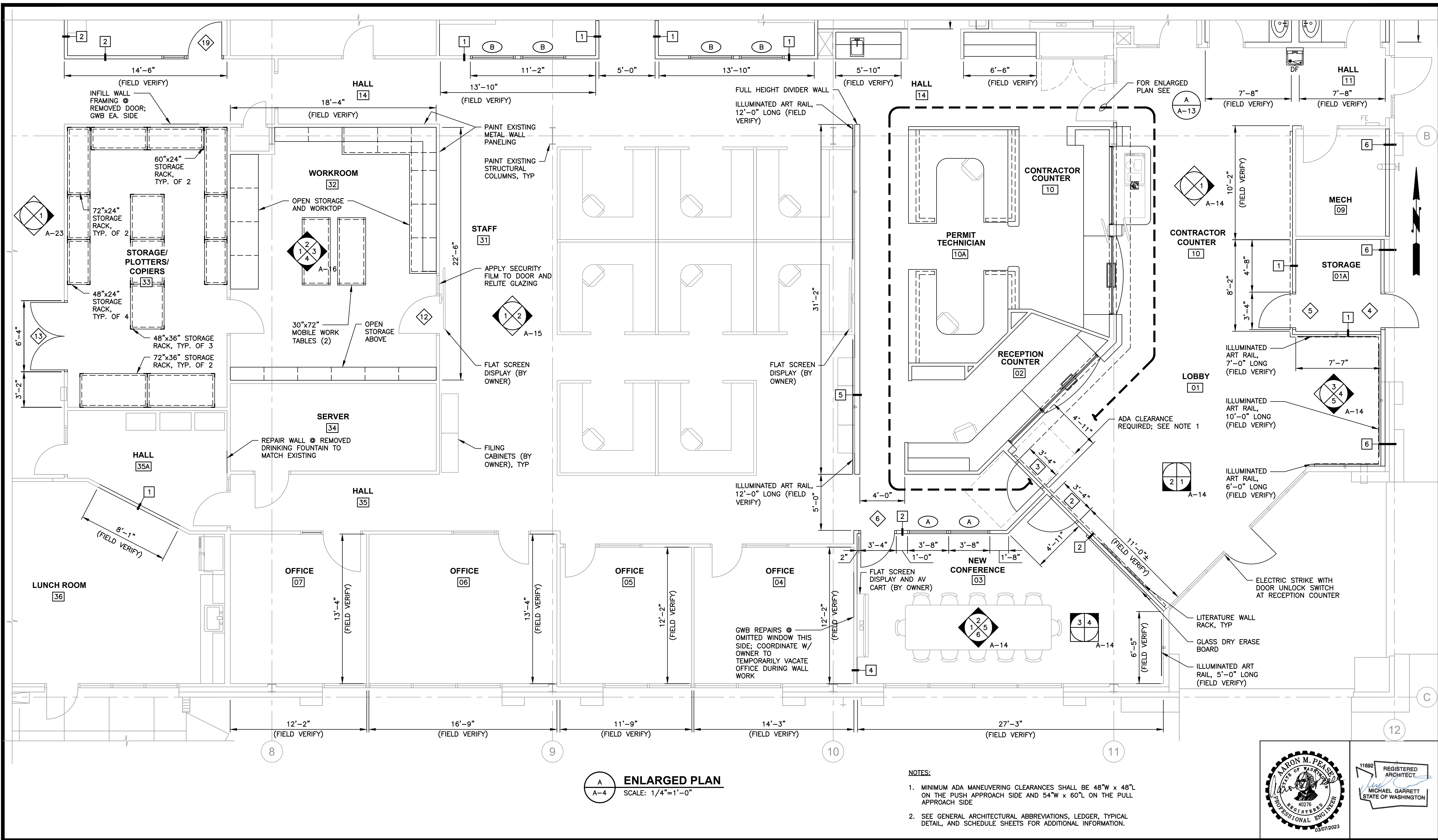


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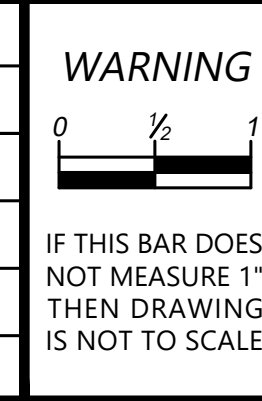
CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS
ROOFING DETAILS 2



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OF 24



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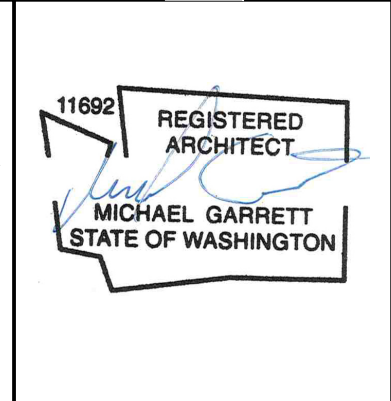
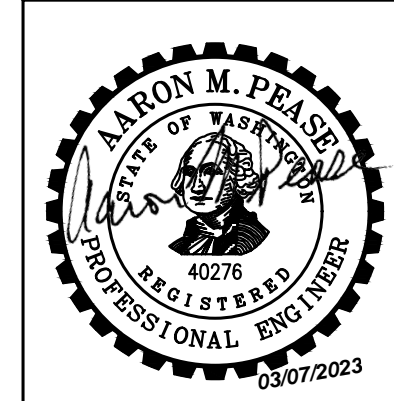
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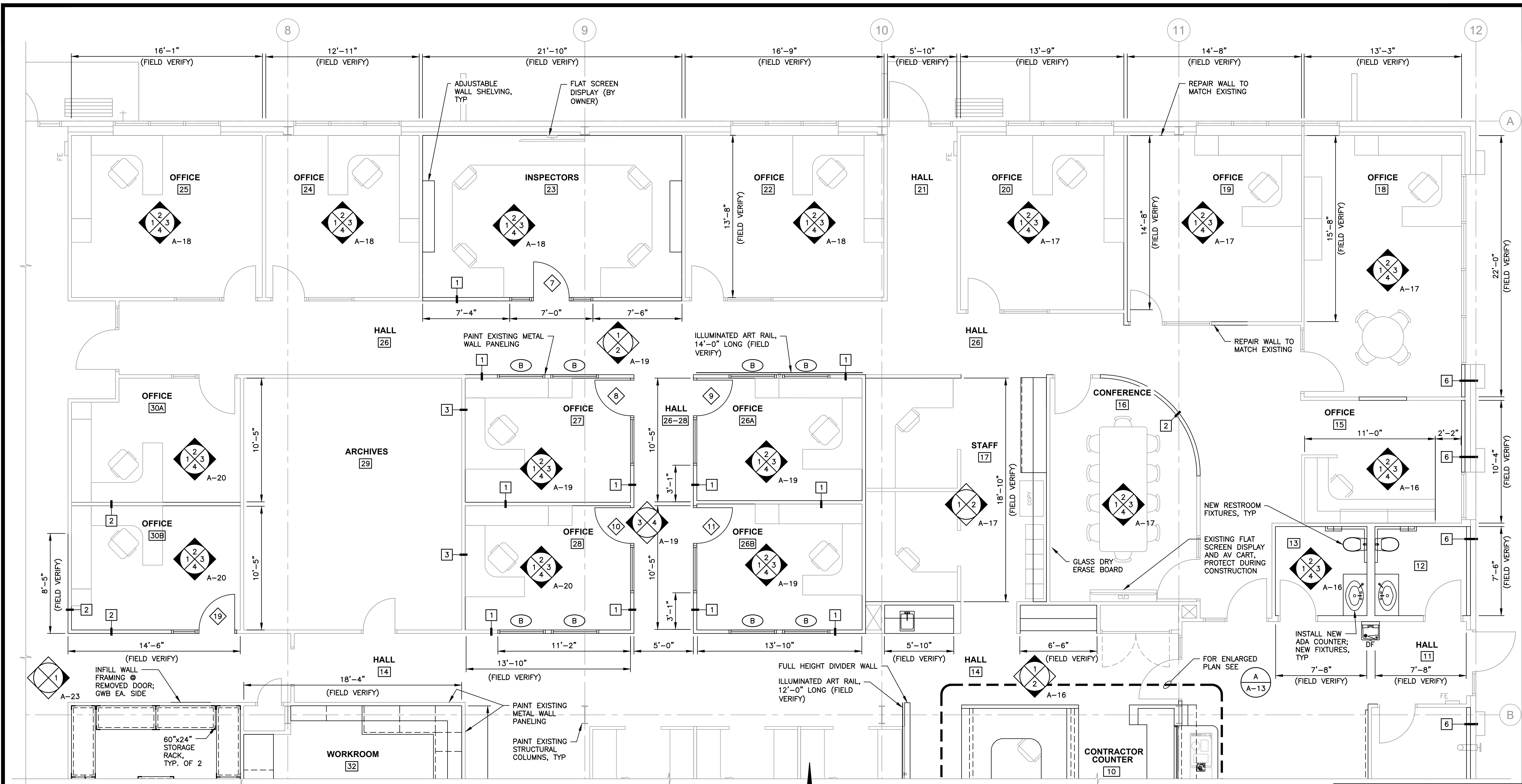
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CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS

ENLARGED FLOOR PLAN - SOUTHEAST

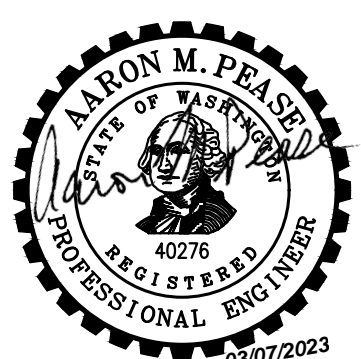




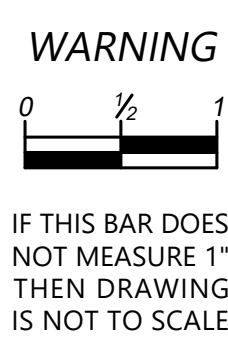
A ENLARGED PLAN
SCALE: 1/4"=1'-0"



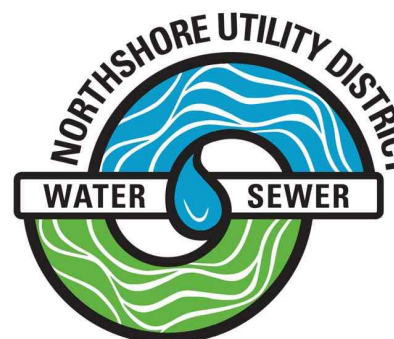
NOTE:
1. SEE GENERAL ARCHITECTURAL ABBREVIATIONS, LEDGER, TYPICAL DETAIL, AND SCHEDULE SHEETS FOR ADDITIONAL INFORMATION.



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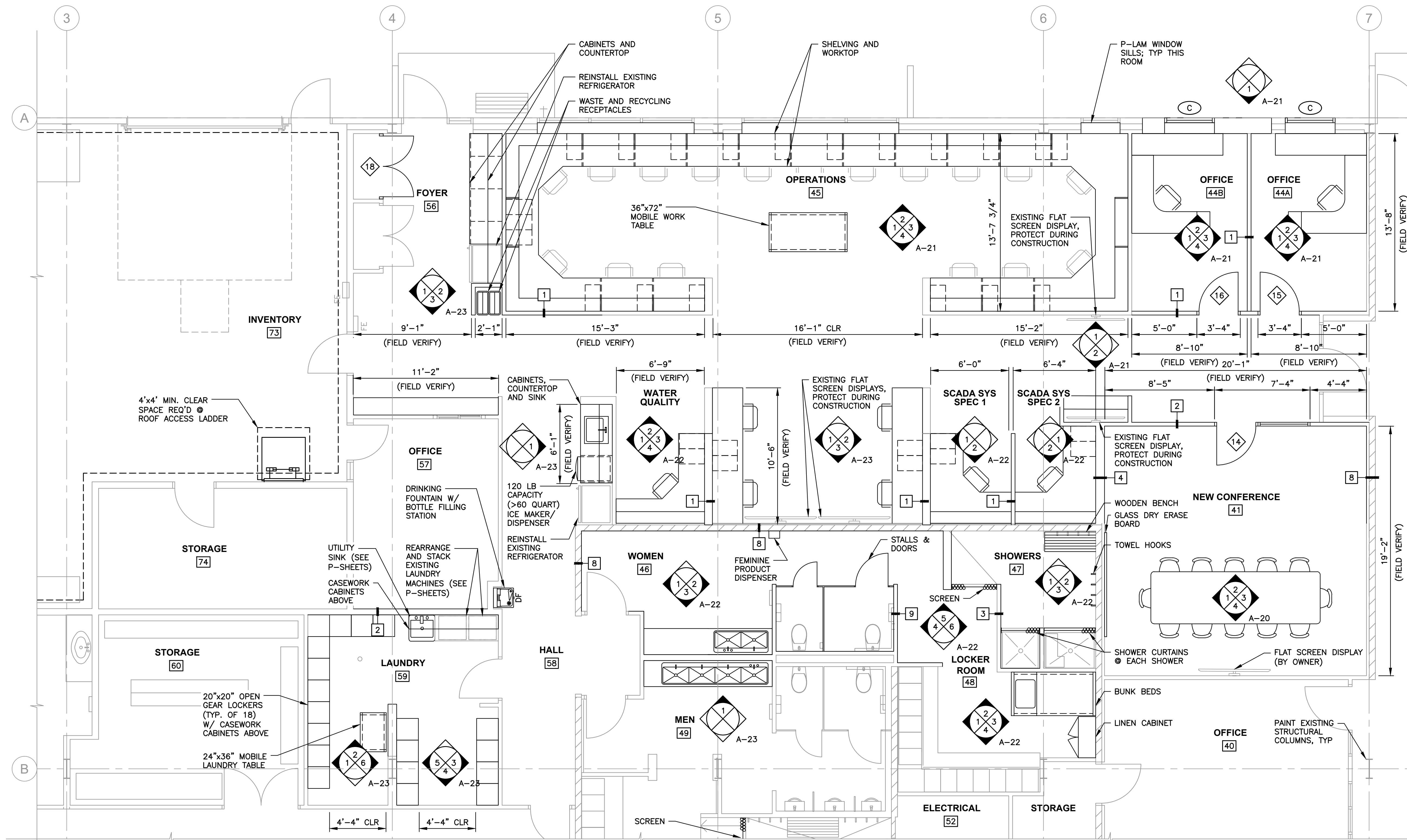
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CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS

ENLARGED FLOOR PLAN - NORTHEAST

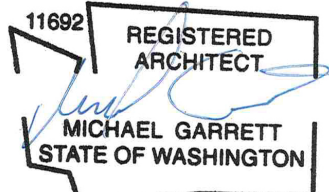
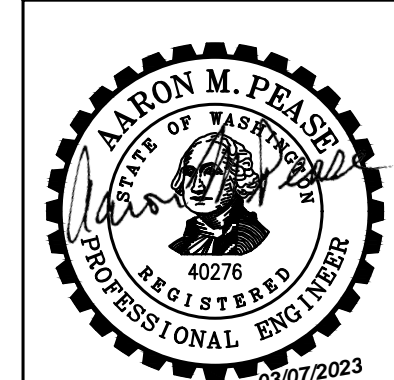
SHEET

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A ENLARGED PLAN
 A-4 SCALE: 1/4"=1'-0"

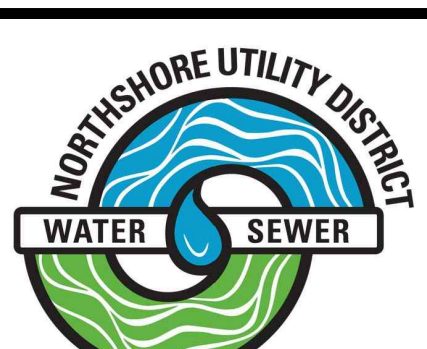
NOTE:
 1. SEE GENERAL ARCHITECTURAL ABBREVIATIONS, LEDGER, TYPICAL DETAIL, AND SCHEDULE SHEETS FOR ADDITIONAL INFORMATION.



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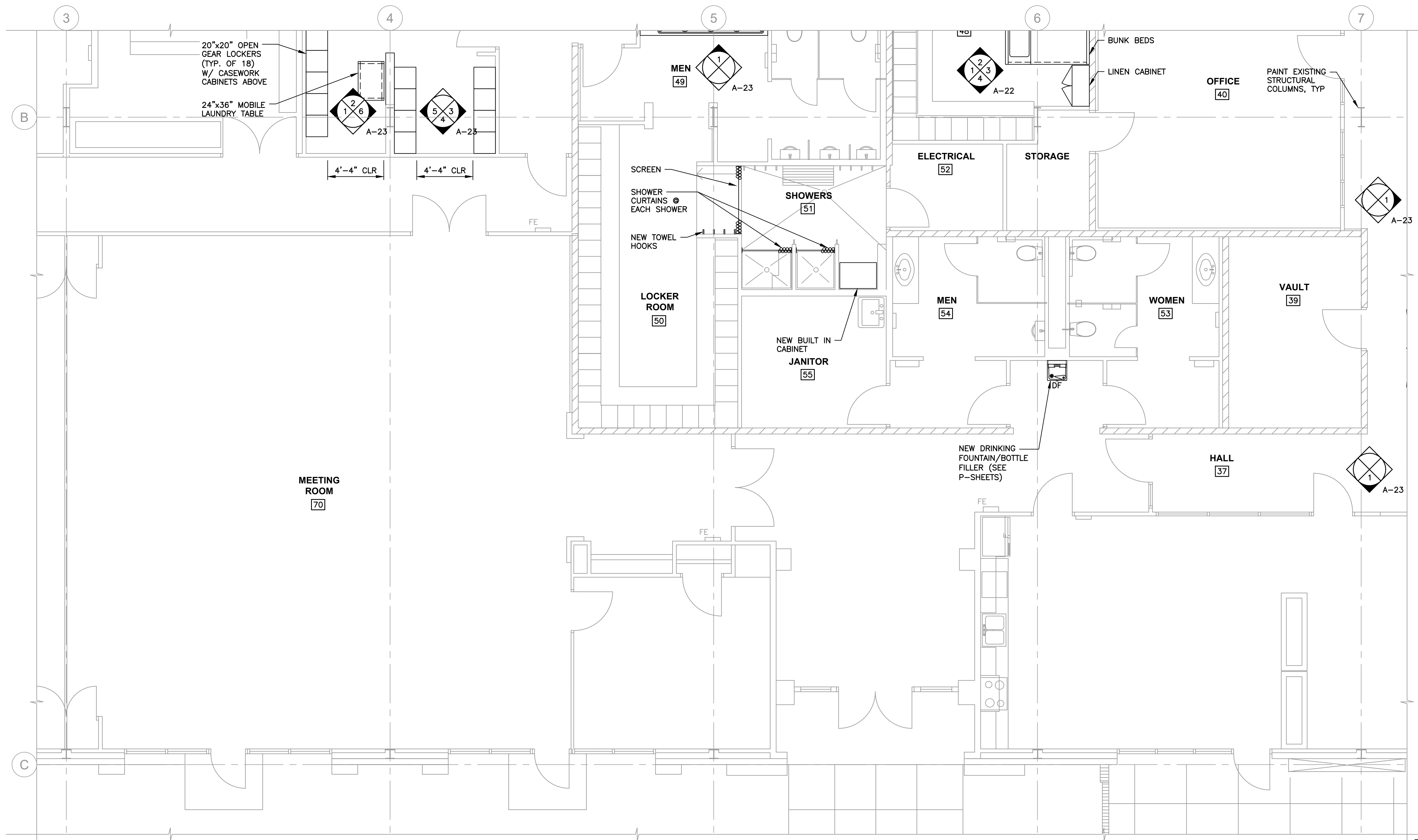
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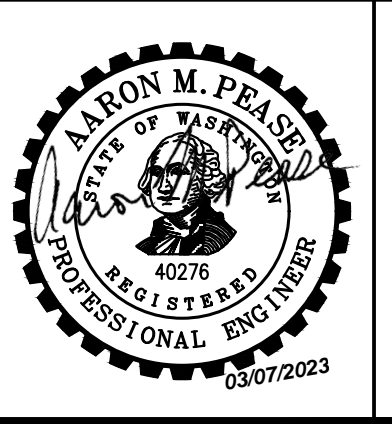
CONTRACT 2023-01
 BUILDING "A" IMPROVEMENTS
ENLARGED FLOOR PLAN - NORTHWEST

SHEET
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 OF 24



A
A-4 **ENLARGED PLAN**
SCALE: 1/4"=1'-0"

NOTE:
1. SEE GENERAL ARCHITECTURAL ABBREVIATIONS, LEDGER, TYPICAL DETAIL, AND SCHEDULE SHEETS FOR ADDITIONAL INFORMATION.



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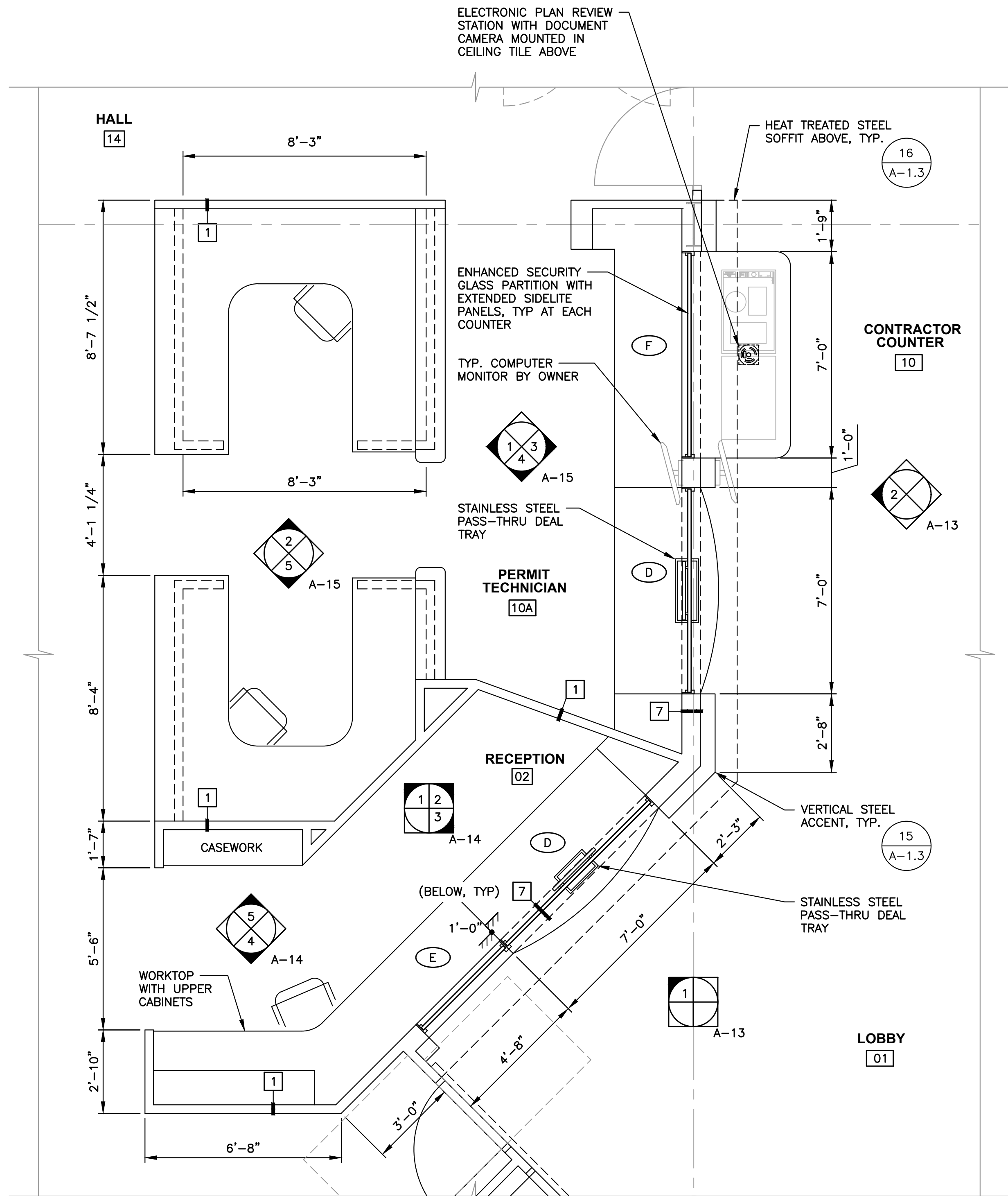
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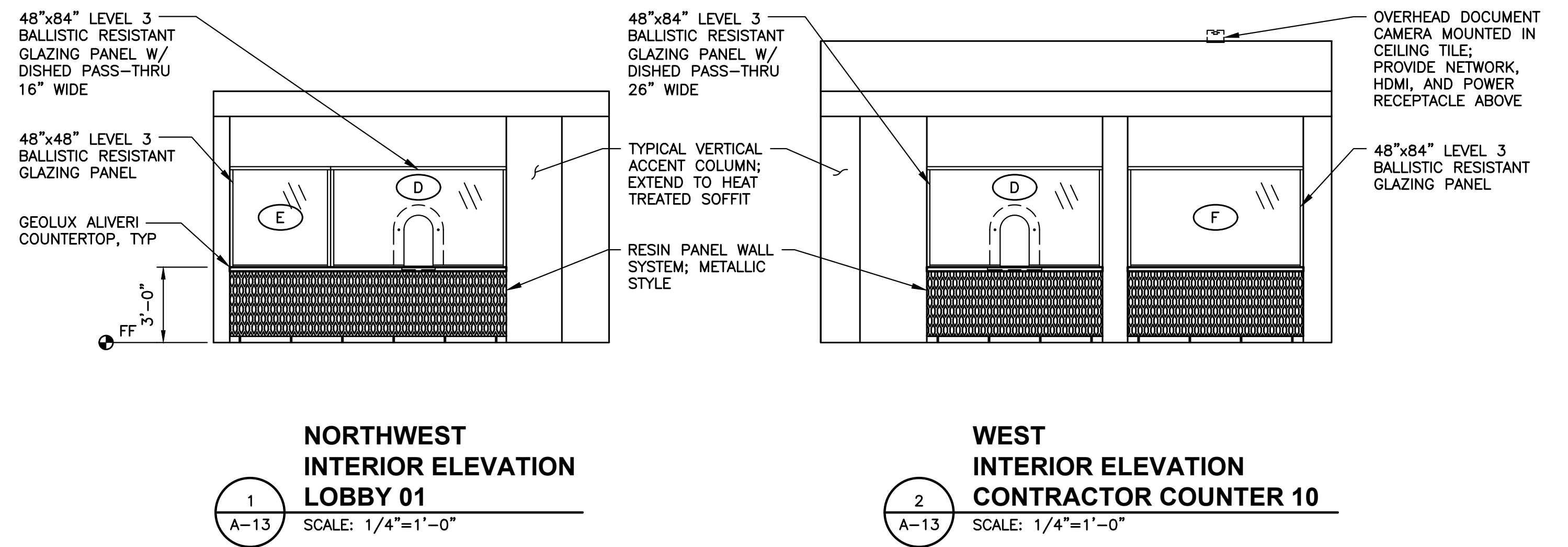
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BUILDING "A" IMPROVEMENTS
ENLARGED FLOOR PLAN - SOUTHWEST

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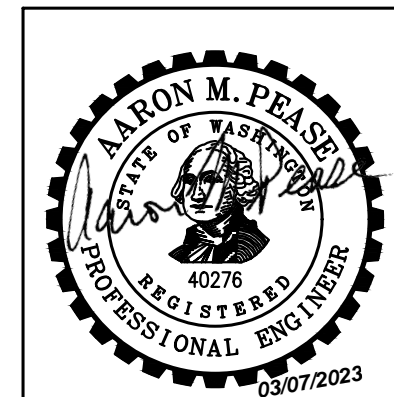


LOBBY 01 RENDERING
SCALE: NTS



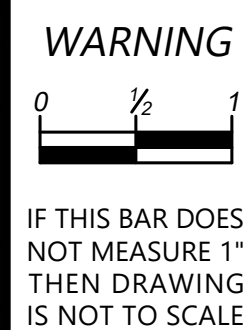
ENLARGED LOBBY PLAN
SCALE: 3/8"=1'-0"

NOTE:
1. SEE GENERAL ARCHITECTURAL ABBREVIATIONS, LEDGER, TYPICAL DETAIL, AND SCHEDULE SHEETS FOR ADDITIONAL INFORMATION.

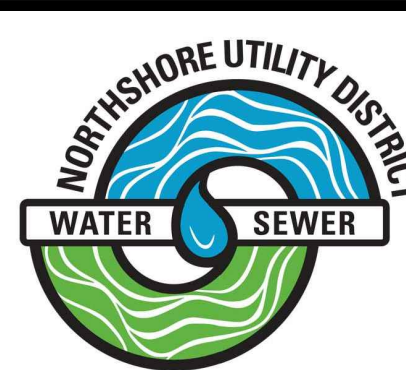


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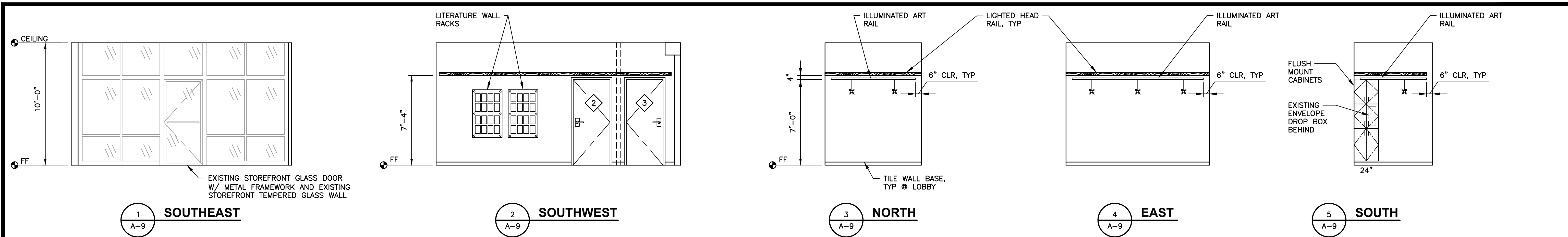


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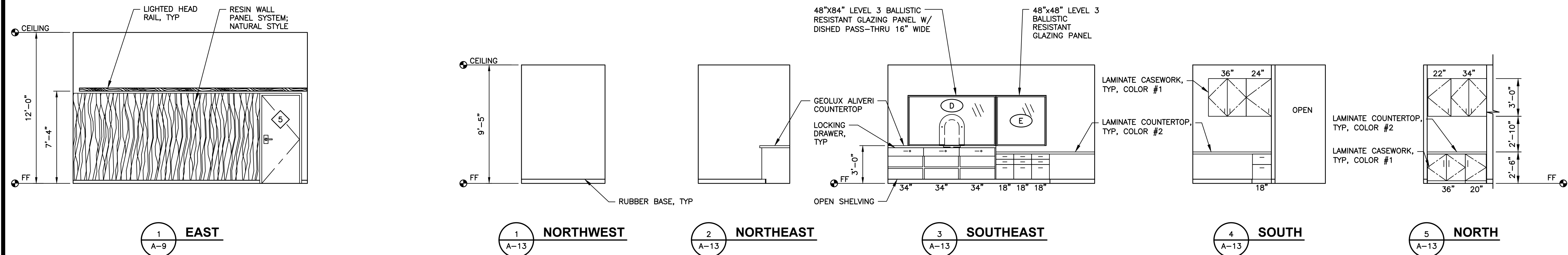
CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS
ENLARGED FLOOR PLAN - LOBBY

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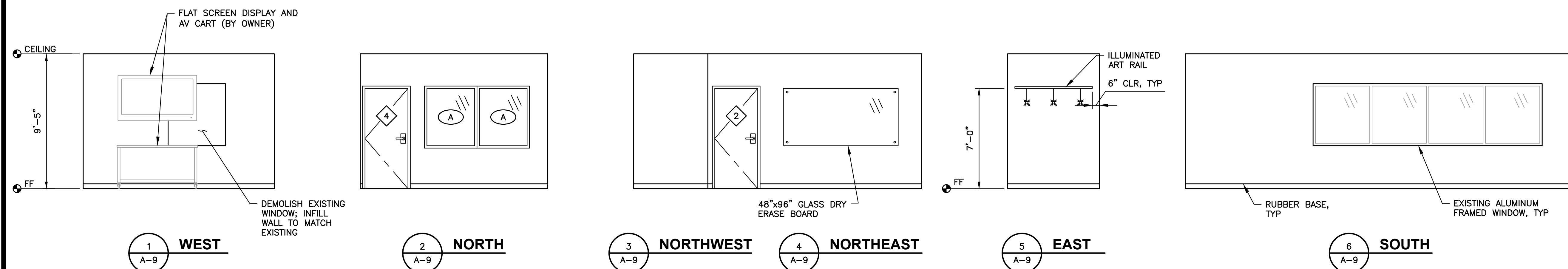


**INTERIOR ELEVATIONS
LOBBY 01**
SCALE: 1/4"=1'-0"



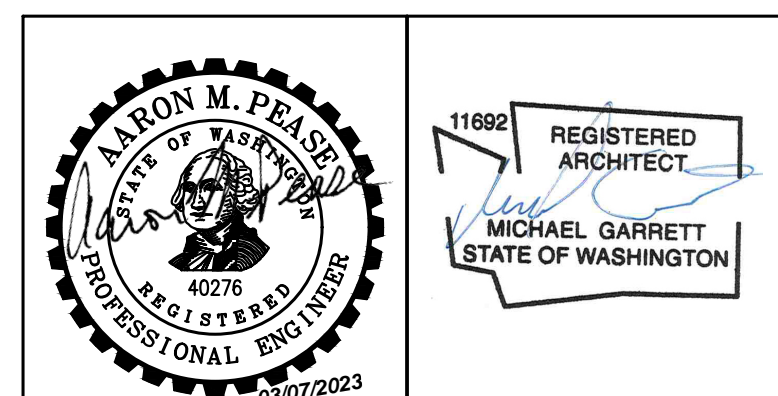
**INTERIOR ELEVATIONS
CONTRACTOR COUNTER 10**
SCALE: 1/4"=1'-0"

**INTERIOR ELEVATIONS
RECEPTION 02**
SCALE: 1/4"=1'-0"



**INTERIOR ELEVATIONS
NEW CONFERENCE 03**
SCALE: 1/4"=1'-0"

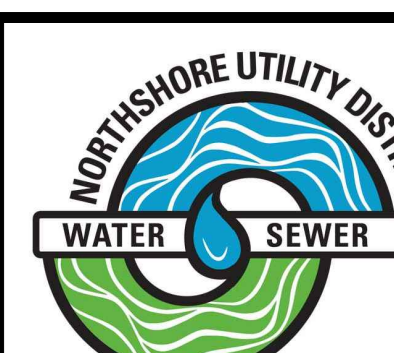
- NOTES:**
1. NOT ALL FURNISHINGS ARE SHOWN.
 2. THESE INTERIOR ELEVATIONS SHOW MAIN WALL FEATURES, BUT NOT ALL FEATURES, EQUIPMENT, DEVICES, OR EDGE CONDITIONS MAY BE SHOWN.



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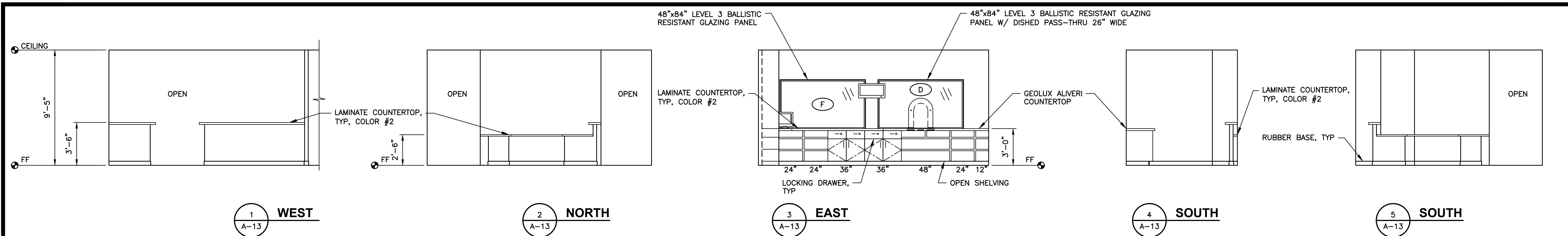
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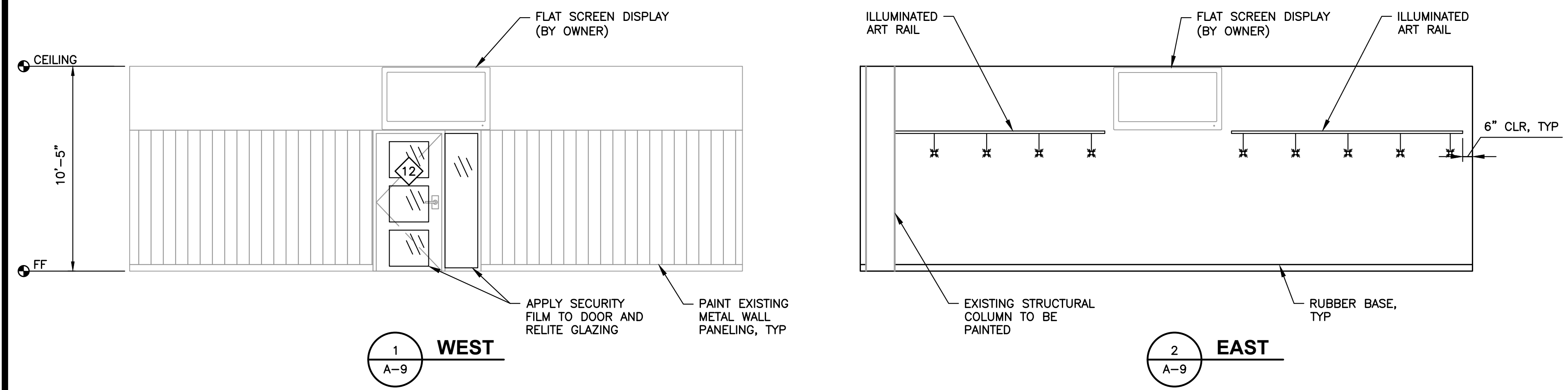
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CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS
INTERIOR ELEVATIONS 1

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OF 24

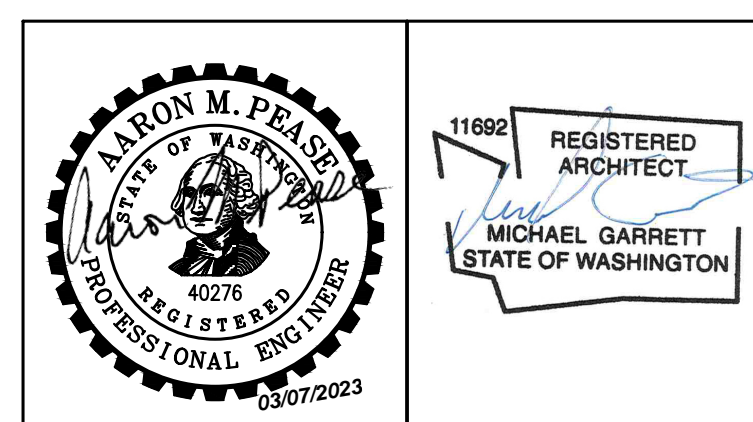


INTERIOR ELEVATIONS
PERMIT TECHNICIAN 10A
 SCALE: 1/4"=1'-0"



INTERIOR ELEVATIONS
STAFF 31
 SCALE: 1/4"=1'-0"

- NOTES:**
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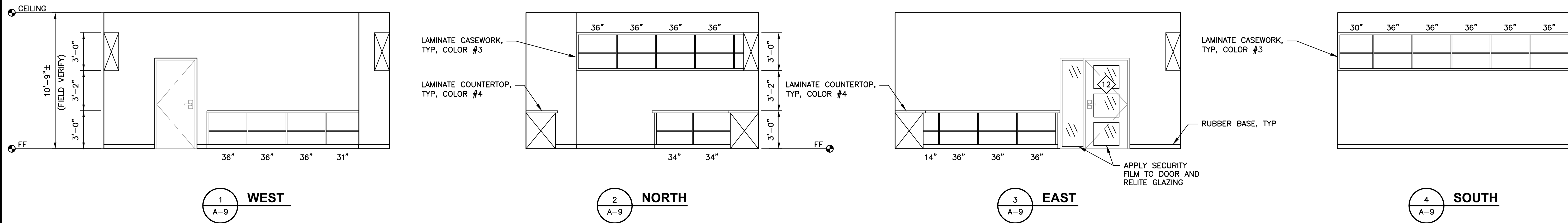
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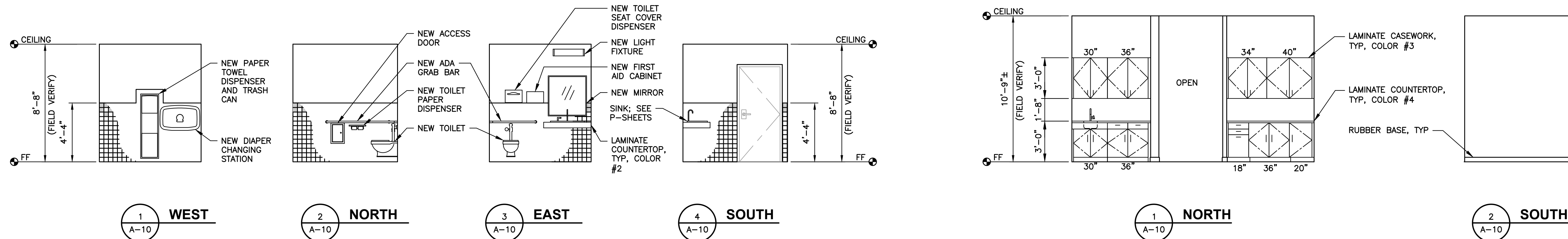
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 BUILDING "A" IMPROVEMENTS

INTERIOR ELEVATIONS 2

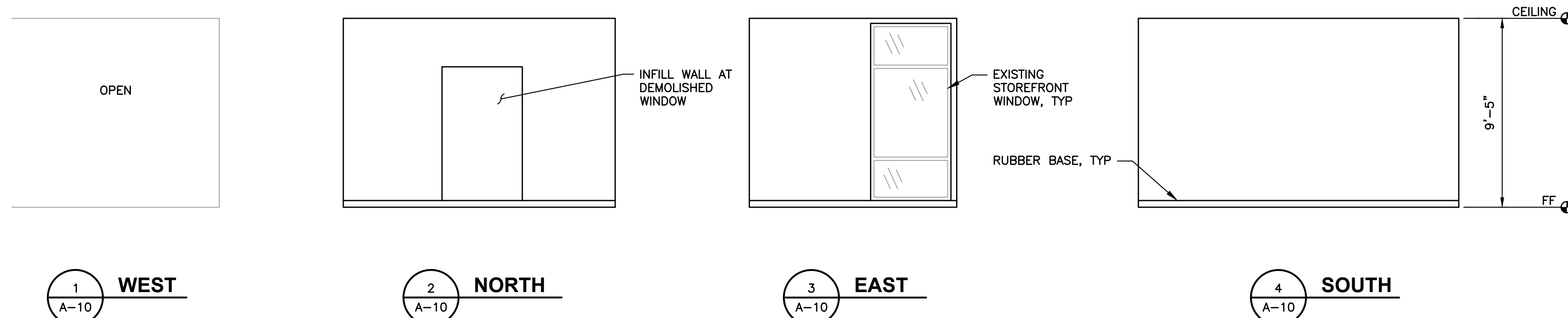


**INTERIOR ELEVATIONS
WORKROOM 32**
SCALE: 1/4"=1'-0"



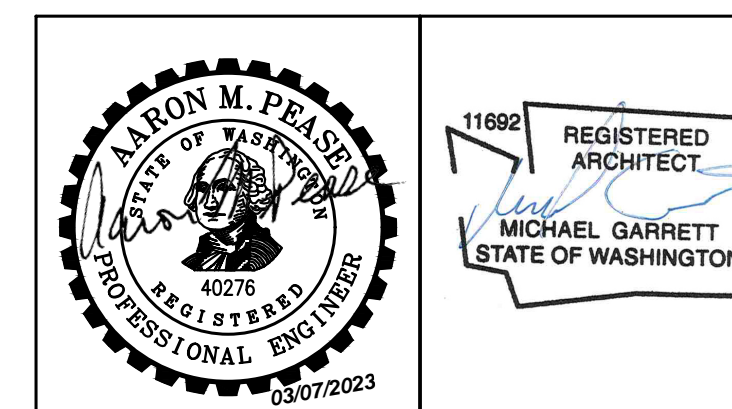
**INTERIOR ELEVATIONS
SINGLE OCCUPANCY RESTROOMS 12 & 13**
SCALE: 1/4"=1'-0"

**INTERIOR ELEVATIONS
HALL 14**
SCALE: 1/4"=1'-0"

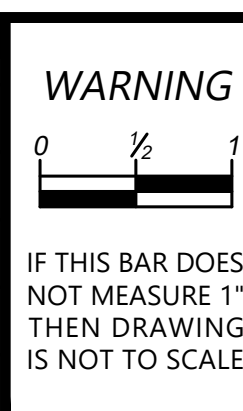


**INTERIOR ELEVATIONS
OFFICE 15**
SCALE: 1/4"=1'-0"

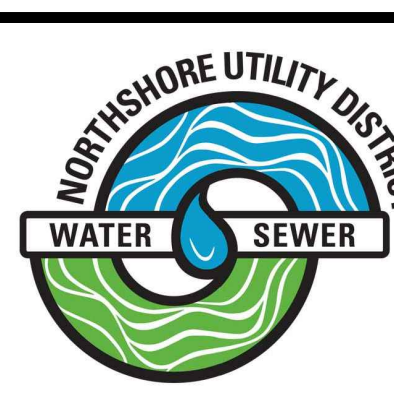
- NOTES:**
1. NOT ALL FURNISHINGS ARE SHOWN.
 2. THESE INTERIOR ELEVATIONS SHOW MAIN WALL FEATURES, BUT NOT ALL FEATURES, EQUIPMENT, DEVICES, OR EDGE CONDITIONS MAY BE SHOWN.



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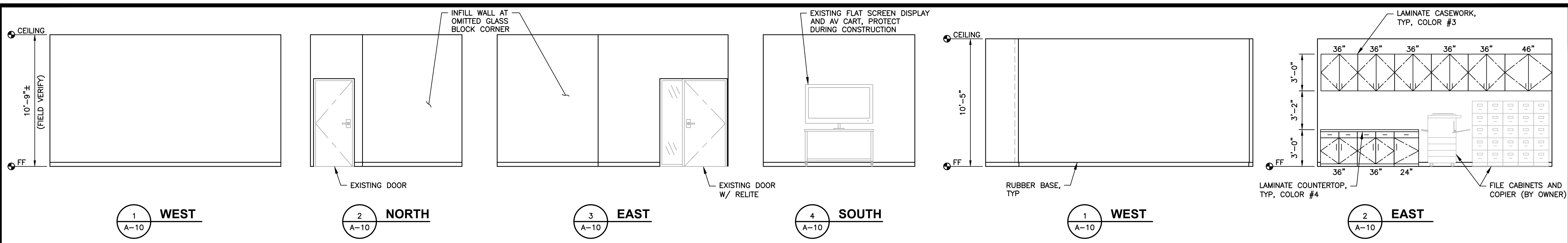
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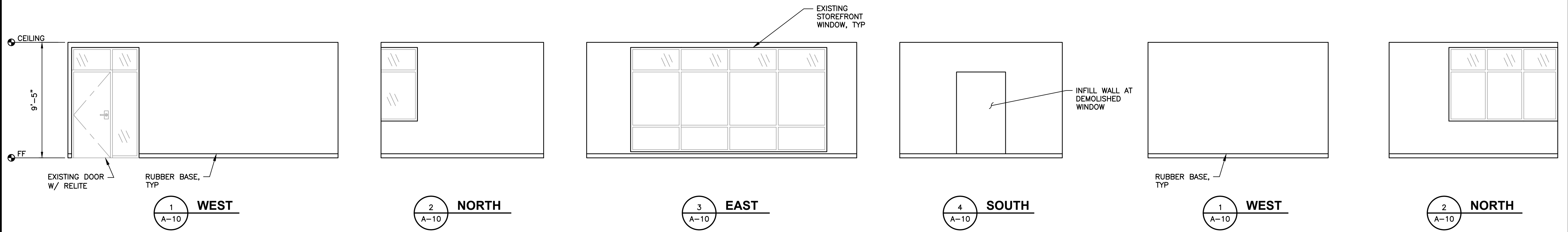
CONTRACT 2023-01
 BUILDING "A" IMPROVEMENTS
INTERIOR ELEVATIONS 3

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 A-16
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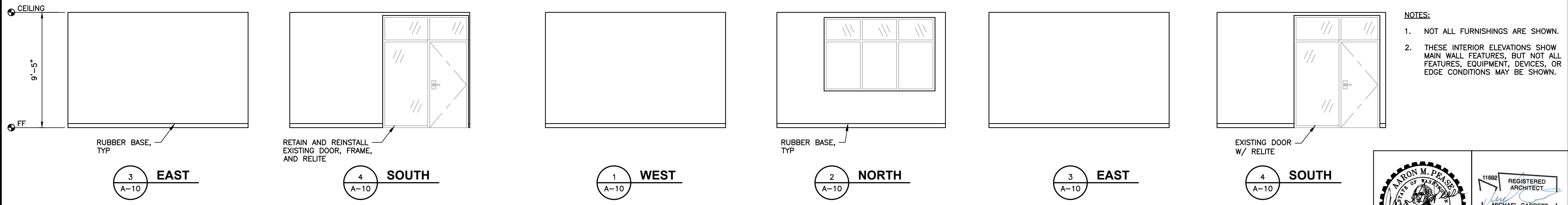
**INTERIOR ELEVATIONS
CONFERENCE 16**
SCALE: 1/4"=1'-0"

**INTERIOR ELEVATIONS
STAFF 17**
SCALE: 1/4"=1'-0"



**INTERIOR ELEVATIONS
OFFICE 18**
SCALE: 1/4"=1'-0"

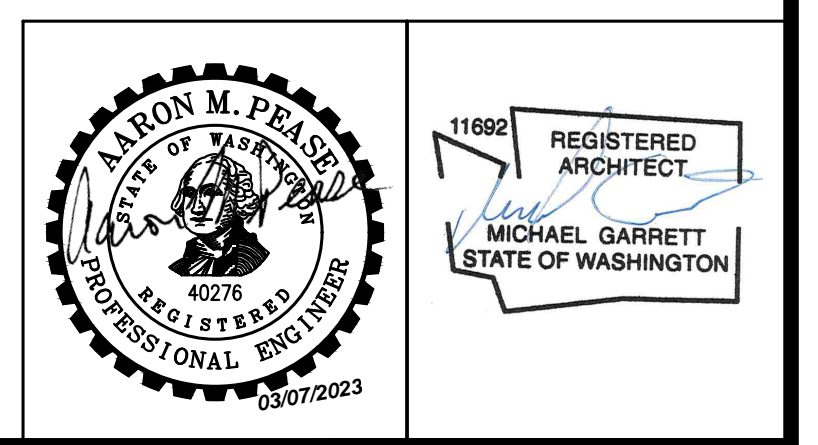
**INTERIOR ELEVATIONS
OFFICE 19 (CONTINUED BELOW LEFT)**
SCALE: 1/4"=1'-0"



**INTERIOR ELEVATIONS
OFFICE 19 (CONTINUED ABOVE RIGHT)**
SCALE: 1/4"=1'-0"

**INTERIOR ELEVATIONS
OFFICE 20**
SCALE: 1/4"=1'-0"

- NOTES:**
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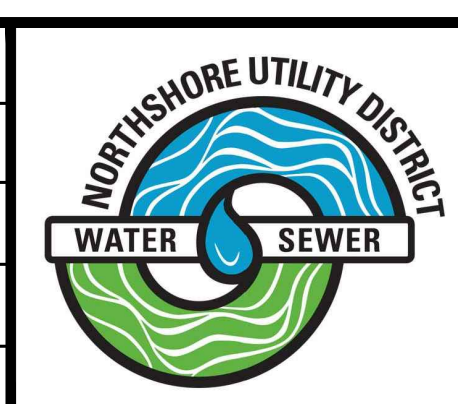


NO	BY	APPD	REVISION	DATE

WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



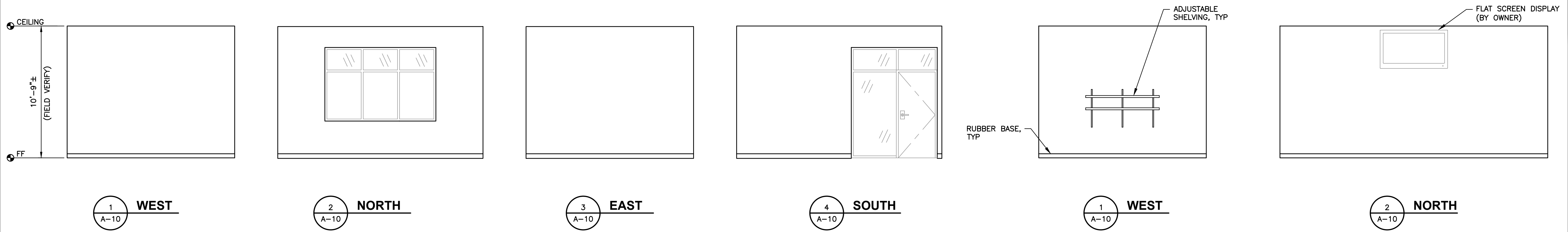
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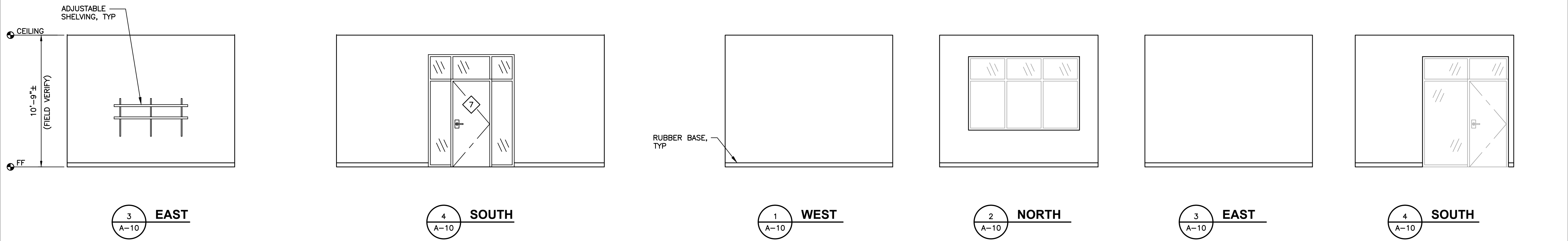
CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS
INTERIOR ELEVATIONS 4

SHEET
A-17
OF 24



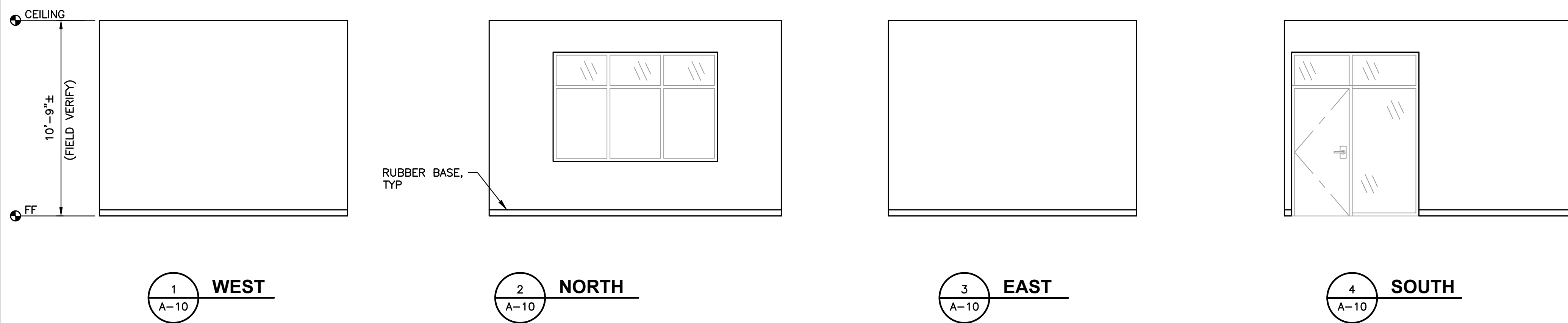
**INTERIOR ELEVATIONS
OFFICE 22**
SCALE: 1/4"=1'-0"

**INTERIOR ELEVATIONS
INSPECTORS 23 (CONTINUED BELOW LEFT)**
SCALE: 1/4"=1'-0"

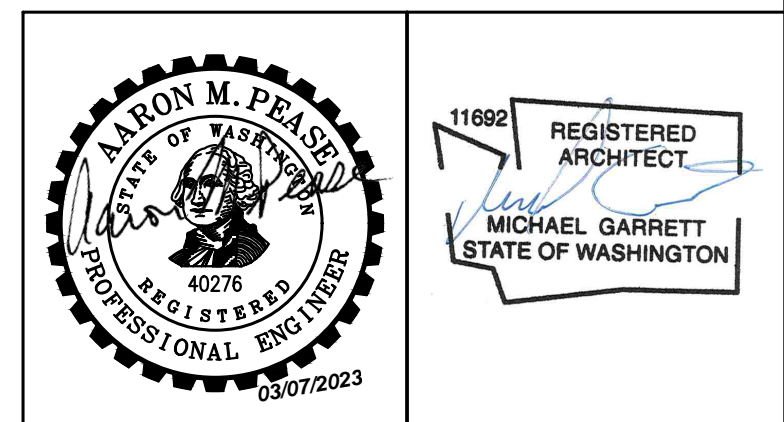


**INTERIOR ELEVATIONS
INSPECTORS 23 (CONTINUED ABOVE RIGHT)**
SCALE: 1/4"=1'-0"

**INTERIOR ELEVATIONS
OFFICE 24**
SCALE: 1/4"=1'-0"



**INTERIOR ELEVATIONS
OFFICE 25**
SCALE: 1/4"=1'-0"



NO	BY	APPD	REVISION	DATE

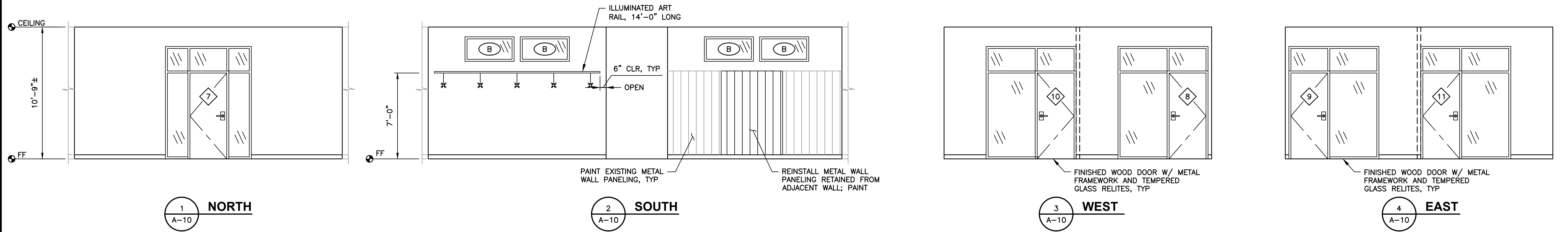
WARNING
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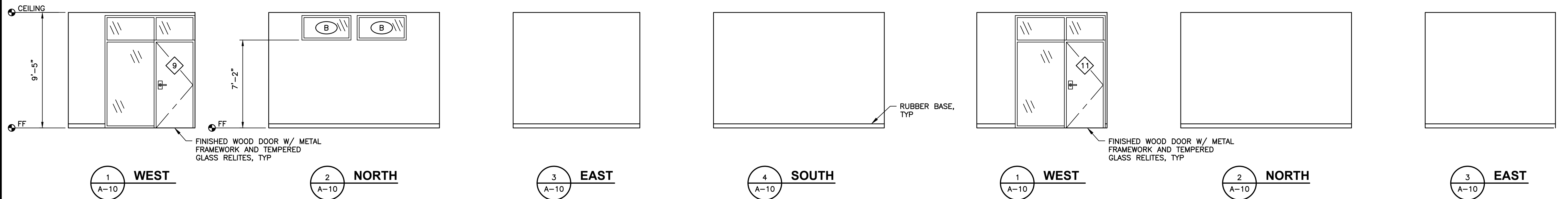
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 BUILDING "A" IMPROVEMENTS
INTERIOR ELEVATIONS 5



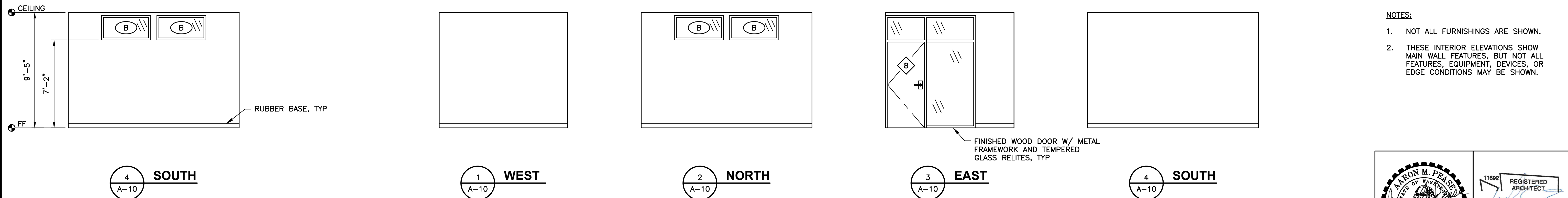
**INTERIOR ELEVATIONS
HALL 26**
SCALE: 1/4"=1'-0"

**INTERIOR ELEVATIONS
HALL 26-28**
SCALE: 1/4"=1'-0"



**INTERIOR ELEVATIONS
OFFICE 26A**
SCALE: 1/4"=1'-0"

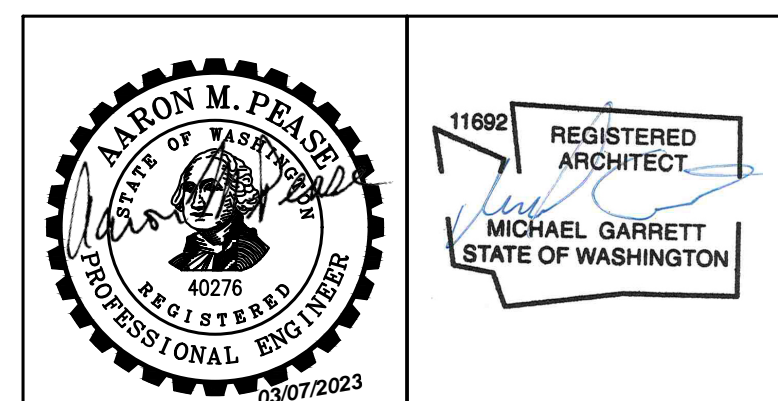
**INTERIOR ELEVATIONS
OFFICE 26B (CONTINUED BELOW LEFT)**
SCALE: 1/4"=1'-0"



**INTERIOR ELEVATIONS
OFFICE 26B (CONTINUED ABOVE RIGHT)**
SCALE: 1/4"=1'-0"

**INTERIOR ELEVATIONS
OFFICE 27**
SCALE: 1/4"=1'-0"

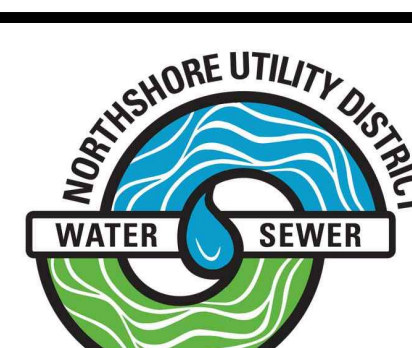
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NO	BY	APPD	REVISION	DATE



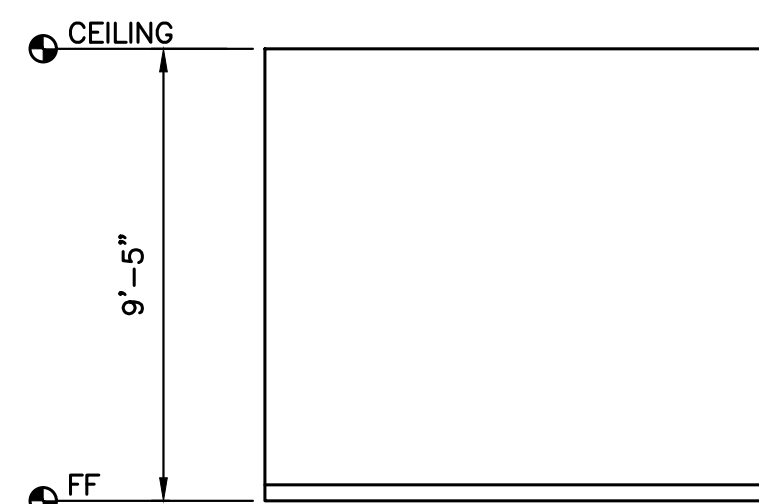
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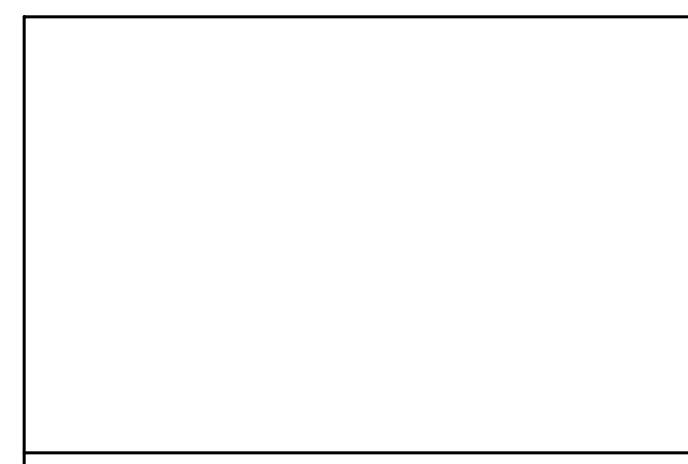
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 BUILDING "A" IMPROVEMENTS
INTERIOR ELEVATIONS 6

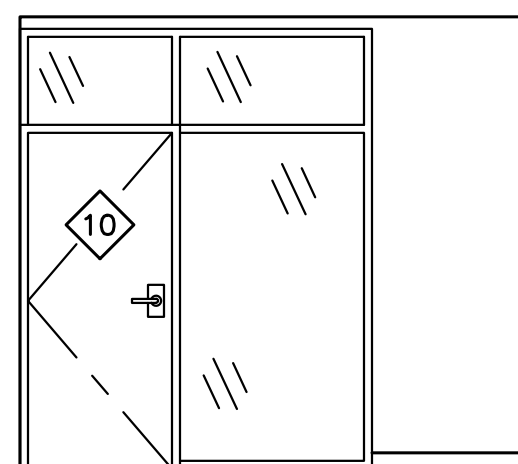
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 OF 24



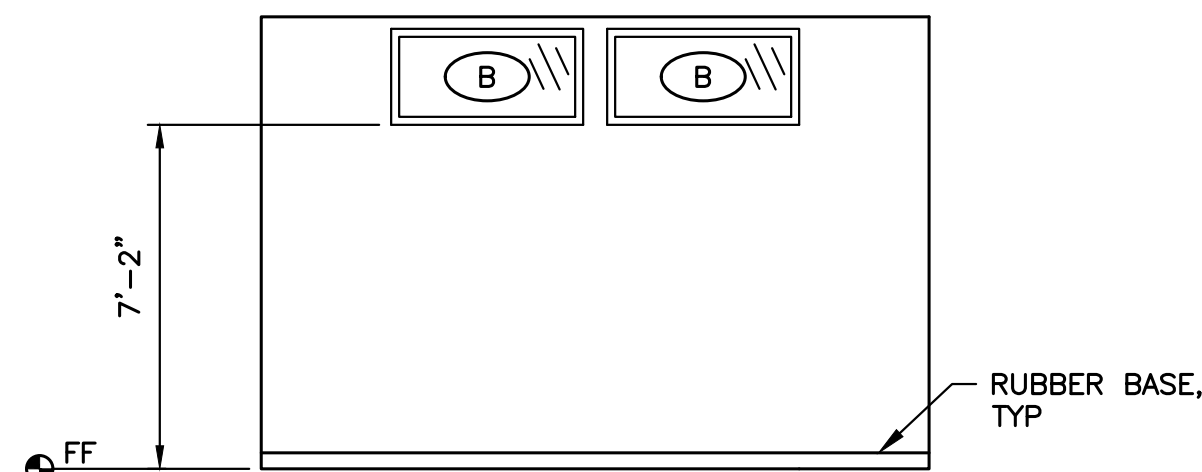
1 WEST
A-10



2 NORTH
A-10

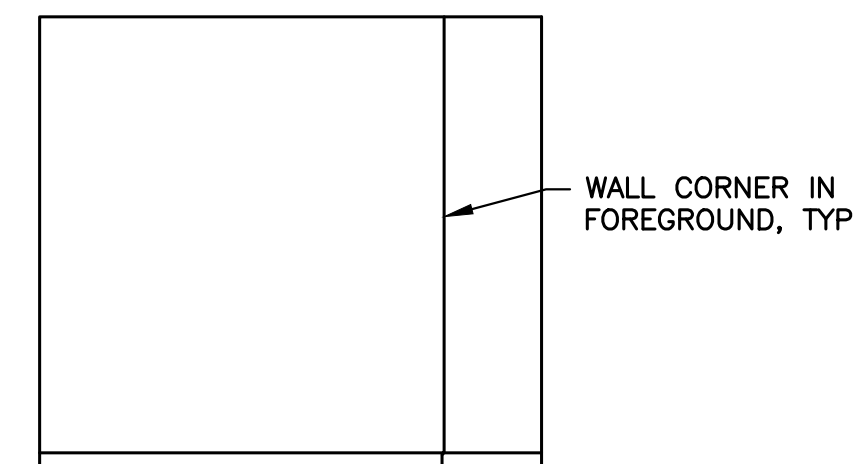


3 EAST
A-10

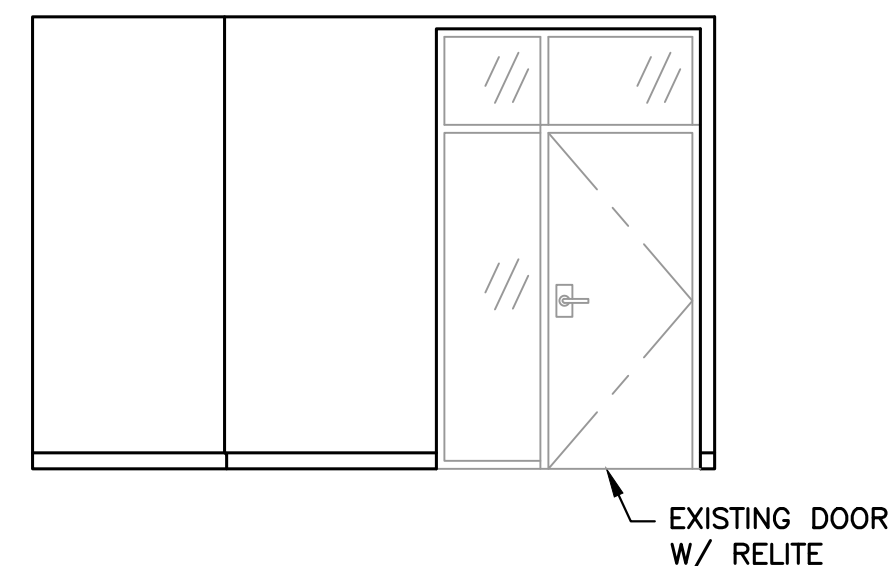


4 SOUTH
A-10

**INTERIOR ELEVATIONS
OFFICE 28**
SCALE: 1/4"=1'-0"

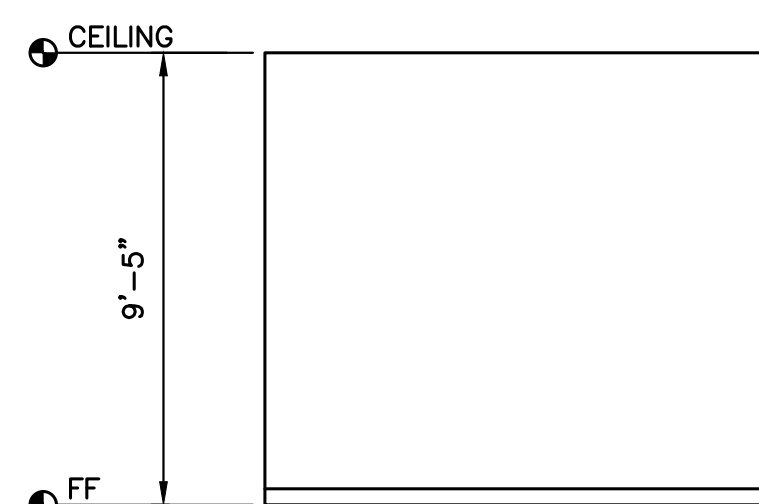


1 WEST
A-10

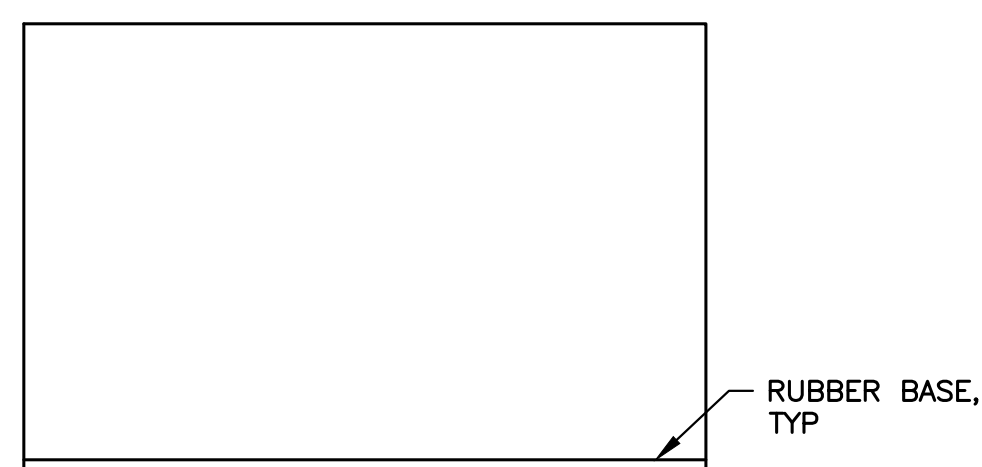


2 NORTH
A-10

**INTERIOR ELEVATIONS
OFFICE 30A (CONTINUED BELOW LEFT)**
SCALE: 1/4"=1'-0"

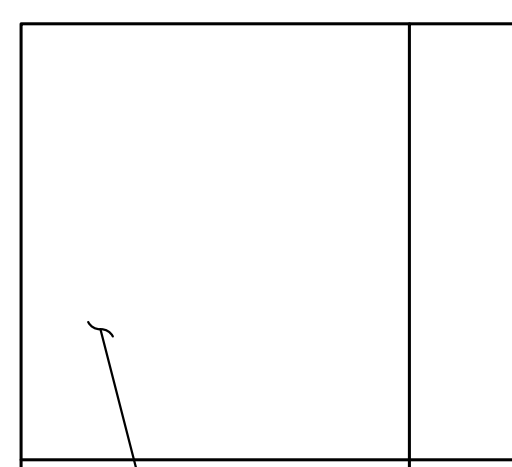


3 EAST
A-10

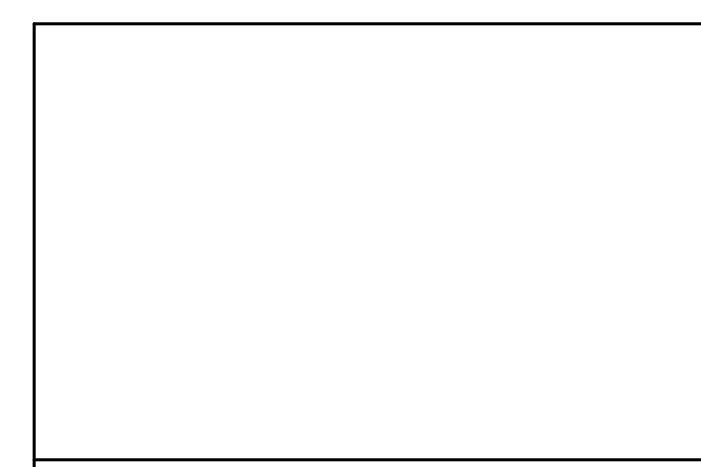


4 SOUTH
A-10

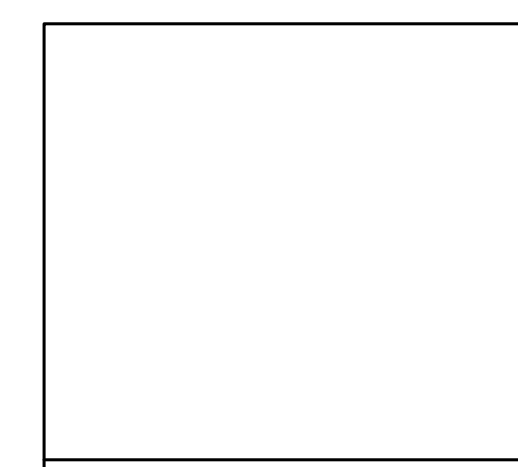
**INTERIOR ELEVATIONS
OFFICE 30A (CONTINUED ABOVE RIGHT)**
SCALE: 1/4"=1'-0"



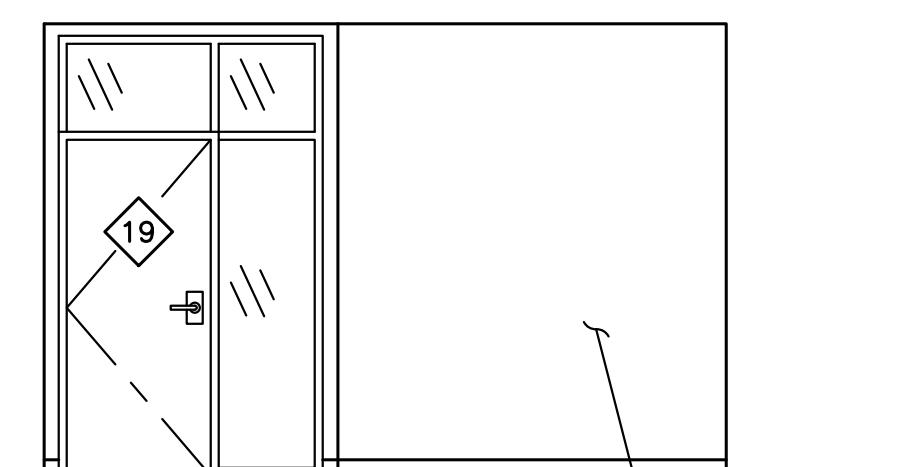
1 WEST
A-10



2 NORTH
A-10

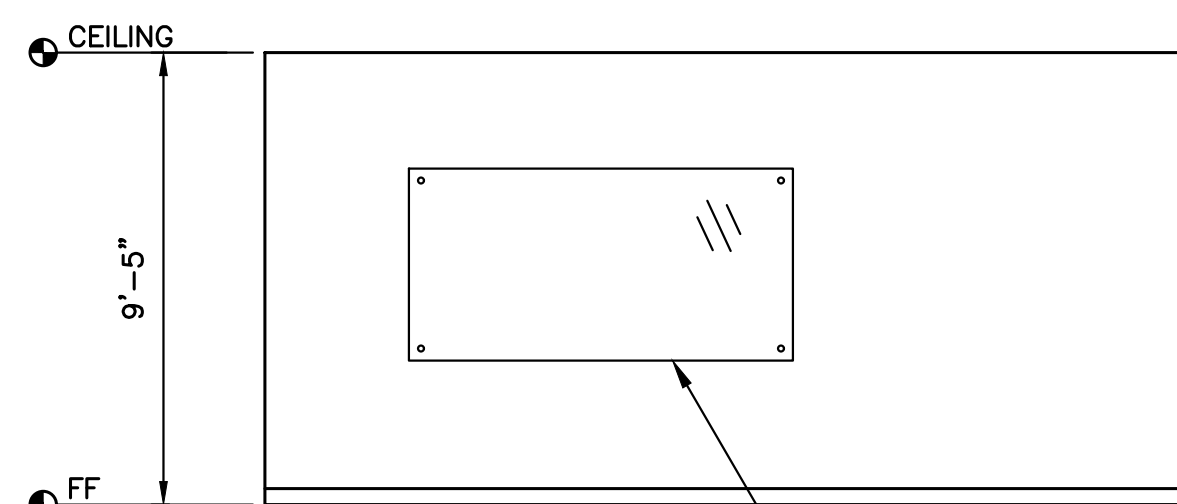


3 EAST
A-10

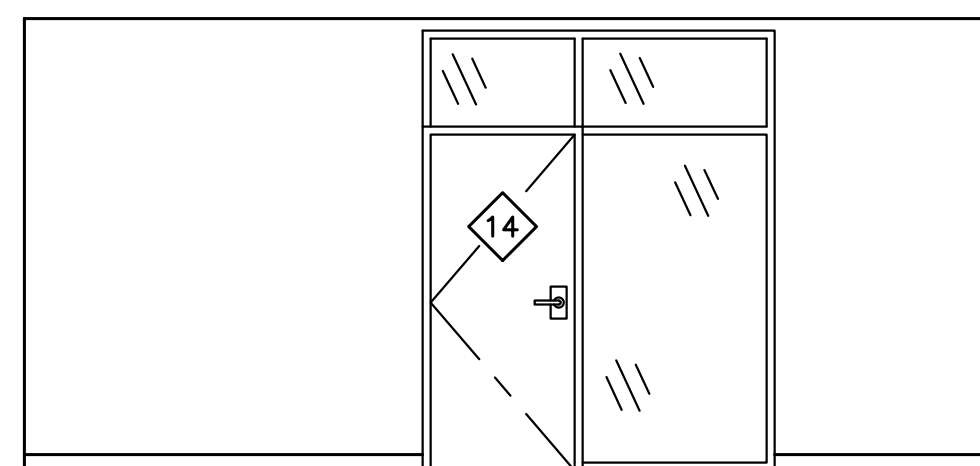


4 SOUTH
A-10

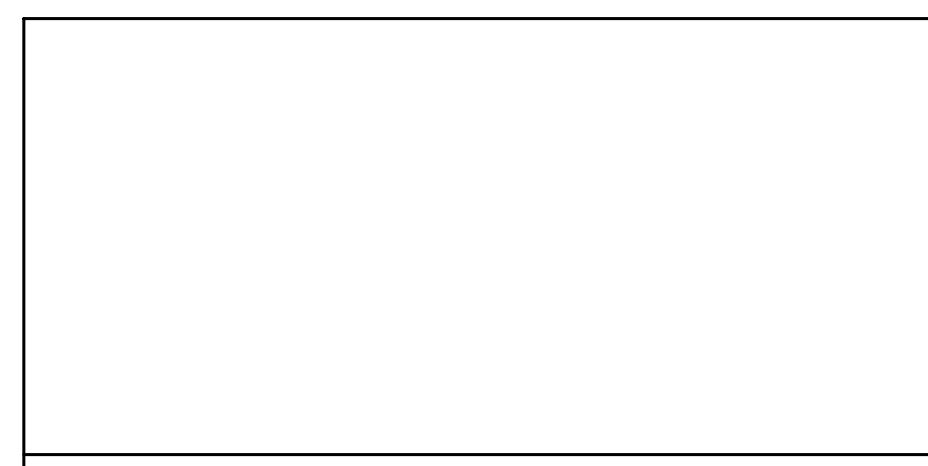
**INTERIOR ELEVATIONS
OFFICE 30B**
SCALE: 1/4"=1'-0"



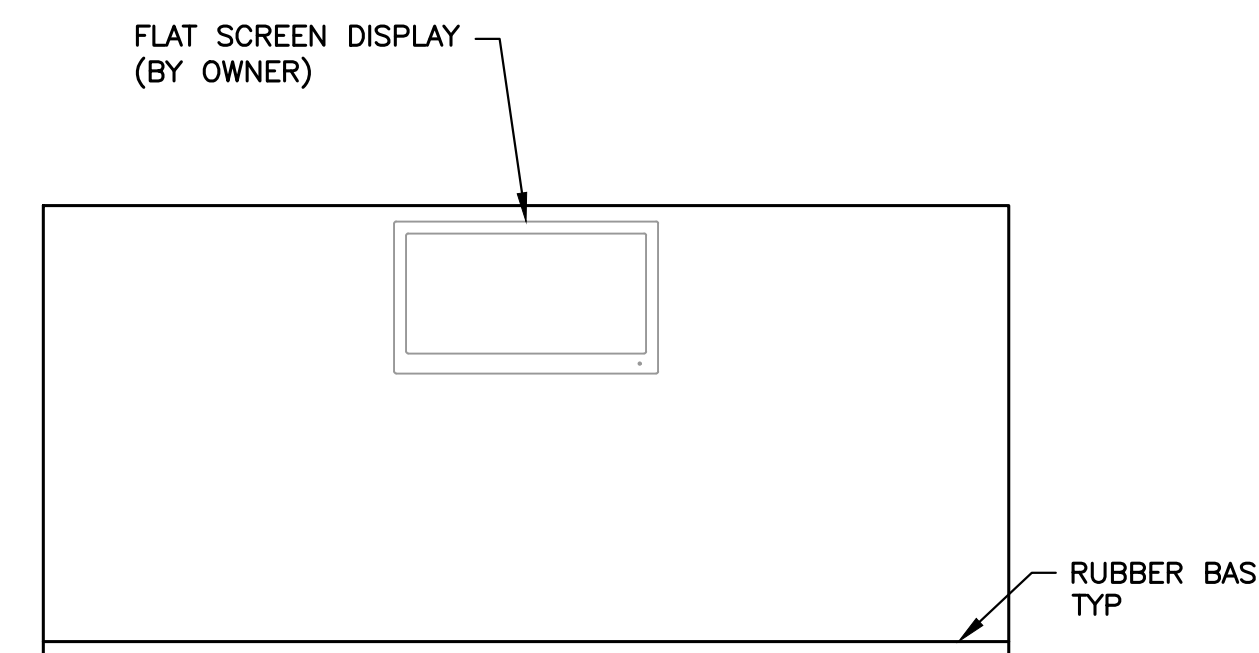
1 WEST
A-11



2 NORTH
A-11



3 EAST
A-11



4 SOUTH
A-11

**INTERIOR ELEVATIONS
NEW CONFERENCE 41**
SCALE: 1/4"=1'-0"

- NOTES:**
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NO	BY	APPD	REVISION	DATE

WARNING
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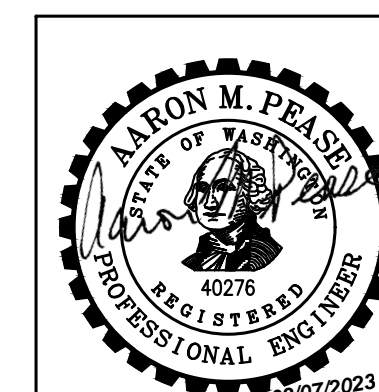


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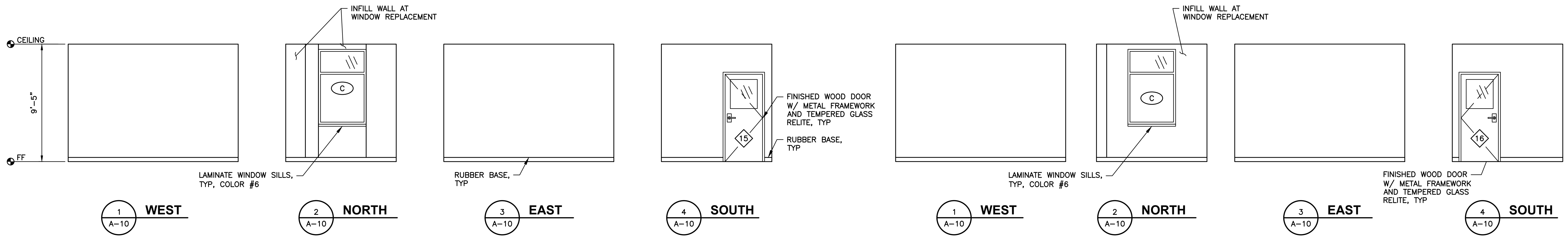


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BUILDING "A" IMPROVEMENTS
INTERIOR ELEVATIONS 7

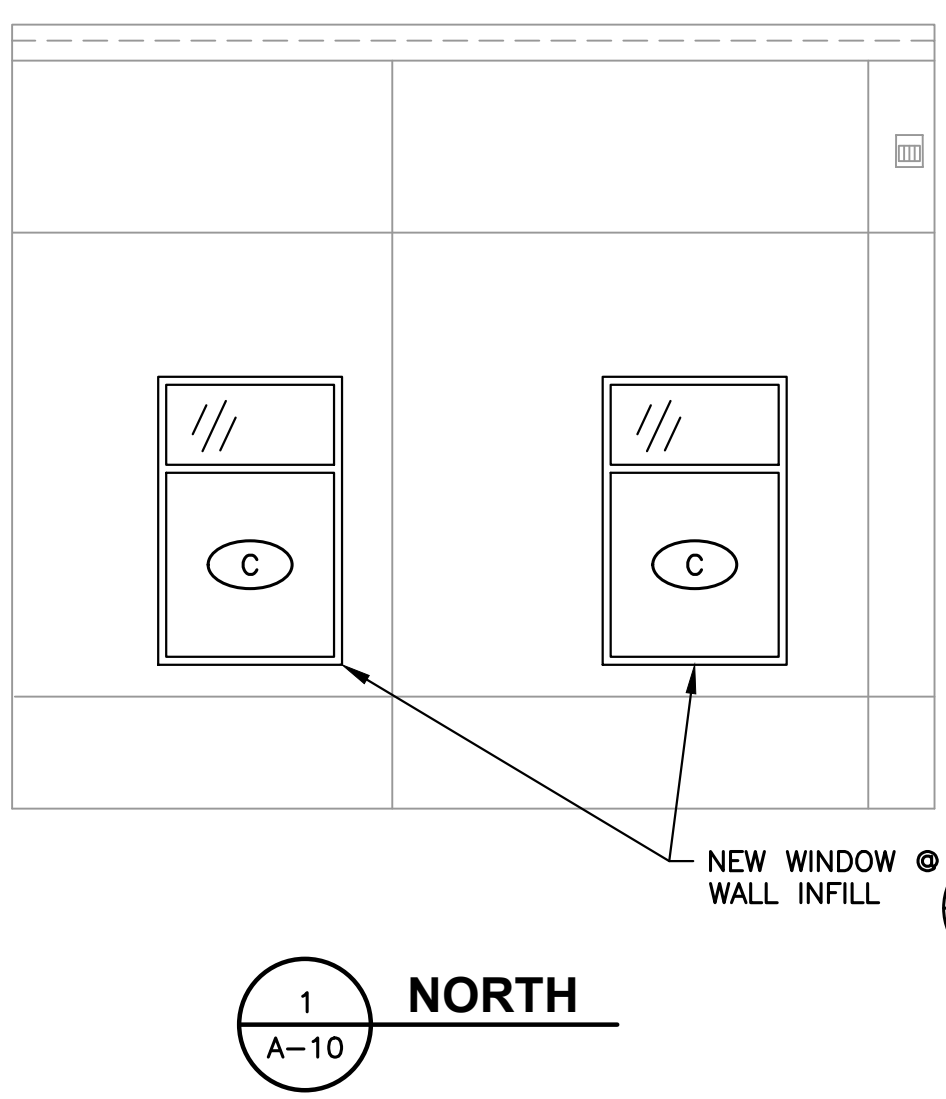


11692 REGISTERED ARCHITECT
MICHAEL GARRETT
STATE OF WASHINGTON

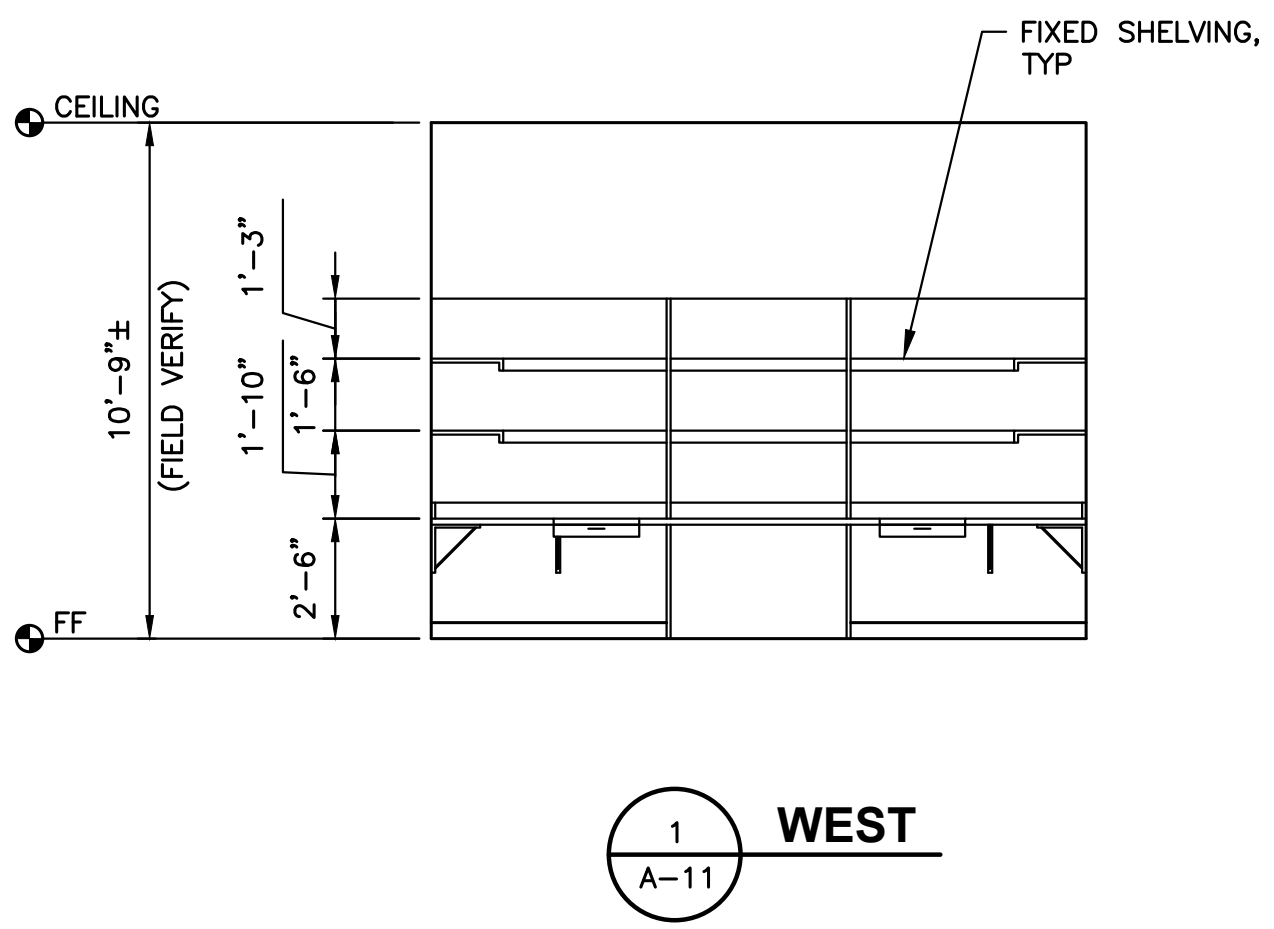


**INTERIOR ELEVATIONS
OFFICE 44A**
SCALE: 1/4"=1'-0"

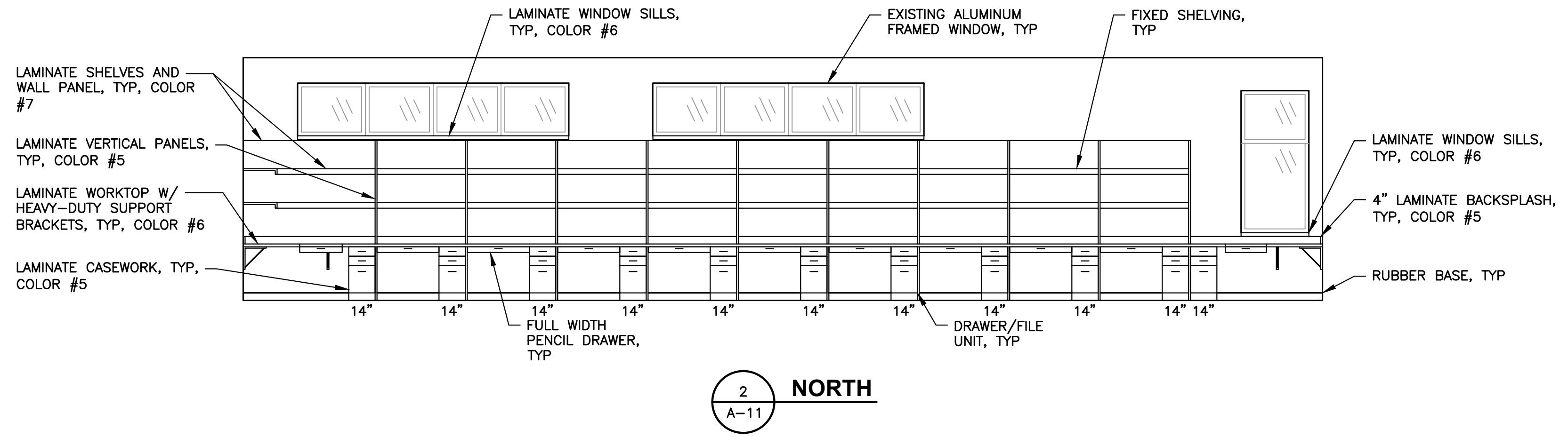
**INTERIOR ELEVATIONS
OFFICE 44B**
SCALE: 1/4"=1'-0"



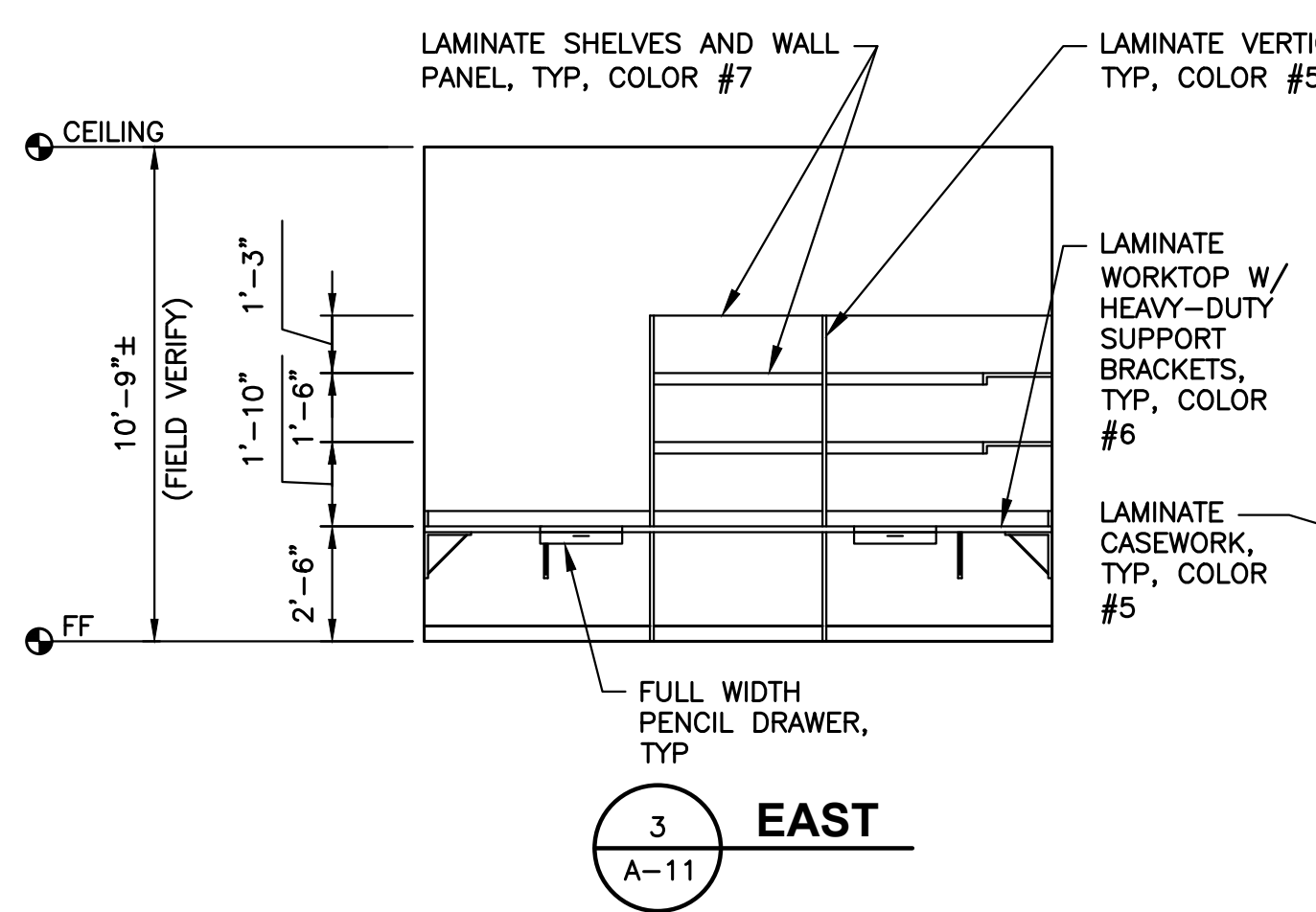
**EXTERIOR ELEVATION
OFFICES 44A & 44B**
SCALE: 1/4"=1'-0"



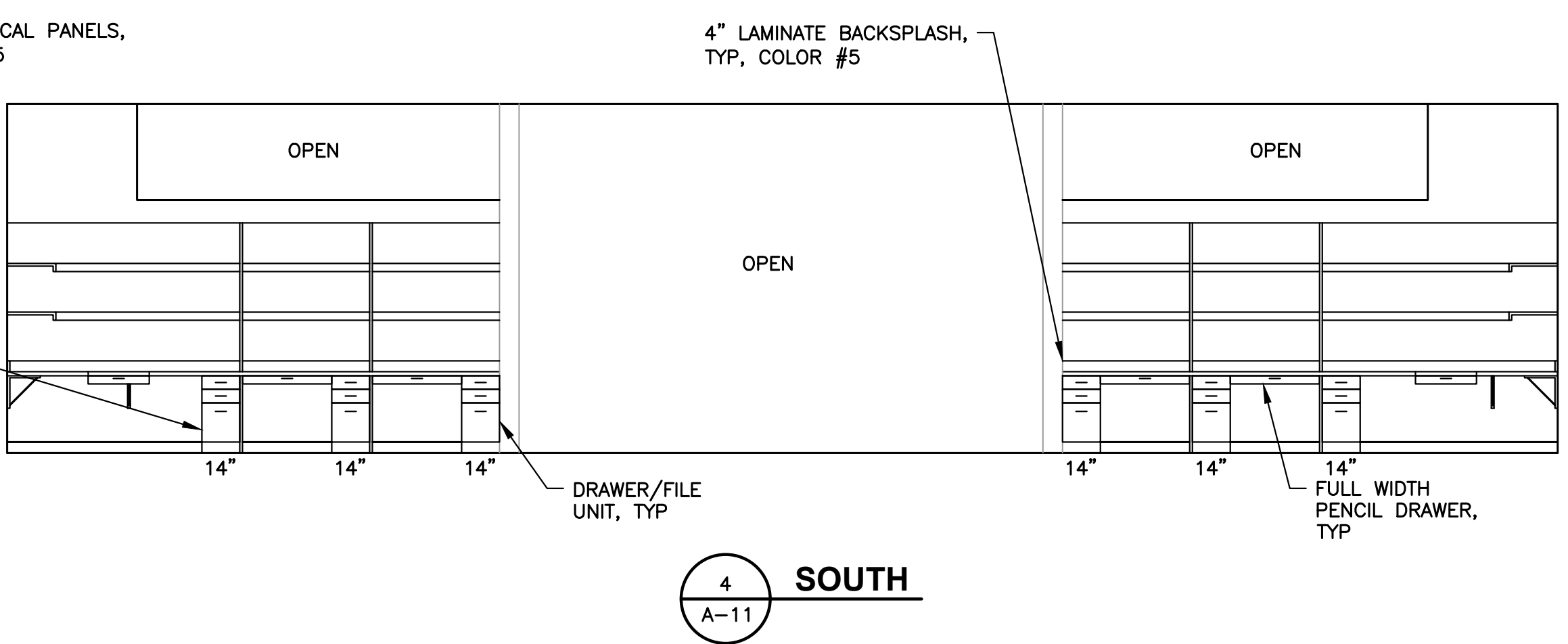
1 WEST
A-11



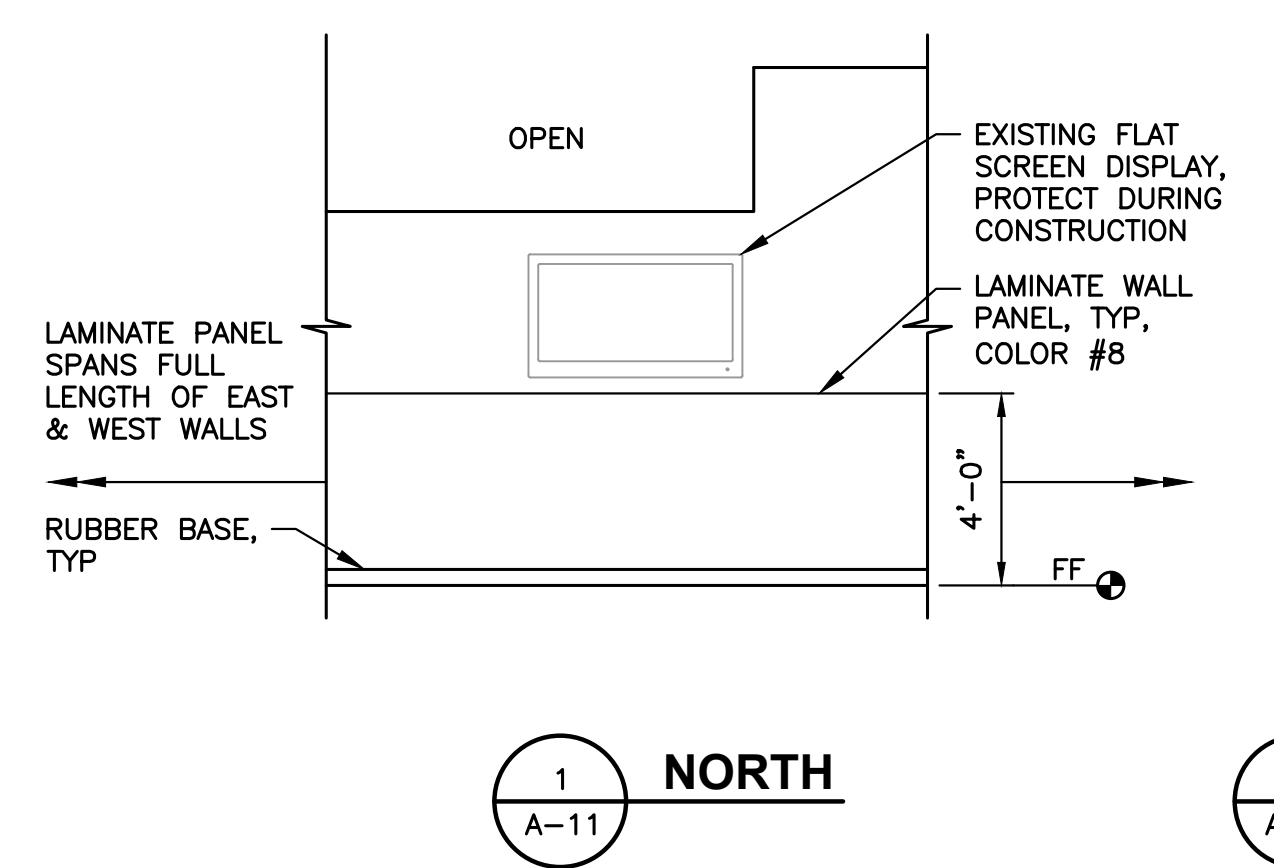
2 NORTH
A-11



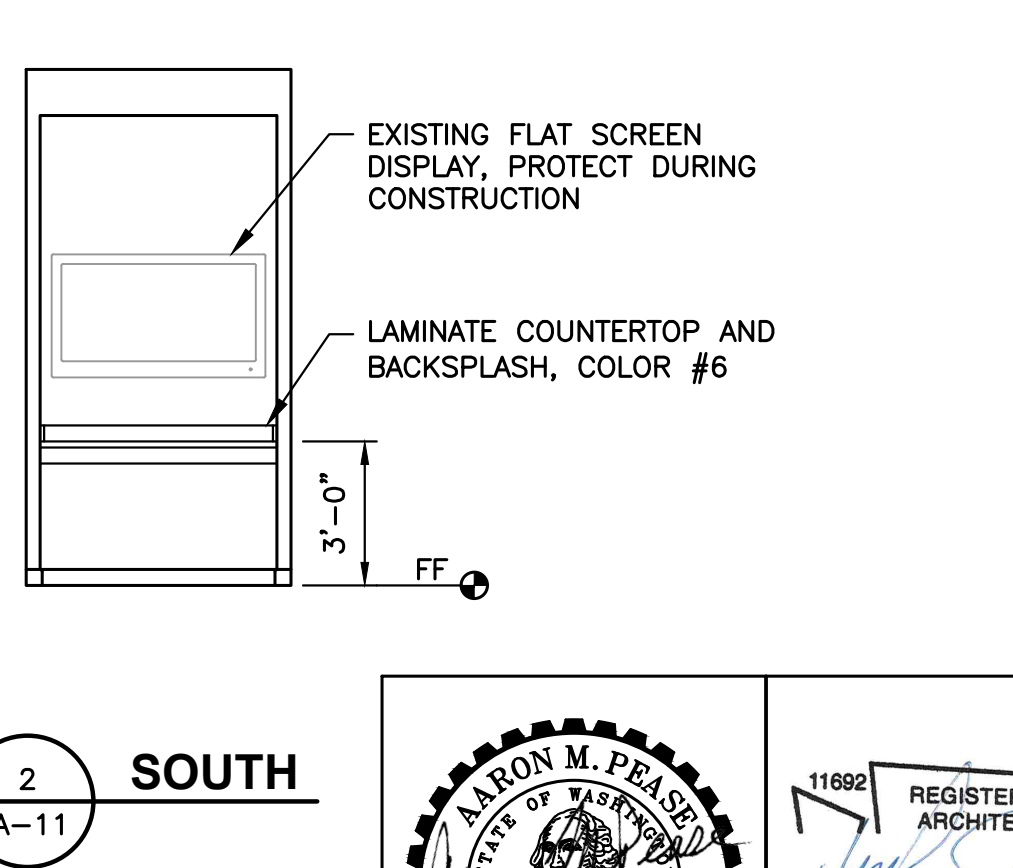
3 EAST
A-11



4 SOUTH
A-11



1 NORTH
A-11



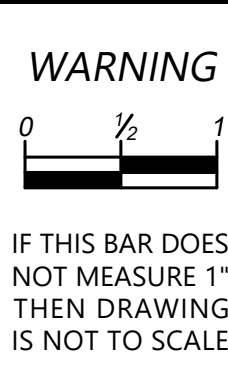
2 SOUTH
A-11

**INTERIOR ELEVATIONS
OPERATIONS 45 (CONTINUED ABOVE)**
SCALE: 1/4"=1'-0"

**INTERIOR ELEVATIONS
OPERATIONS 45 (HALL)**
SCALE: 1/4"=1'-0"

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NO	BY	APPD	REVISION	DATE



Gray & Osborne, Inc.
CONSULTING ENGINEERS

GABBERT
ARCHITECTS
PLANNERS

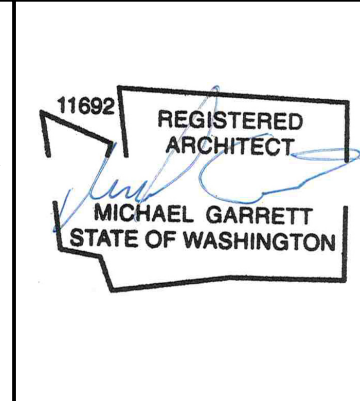
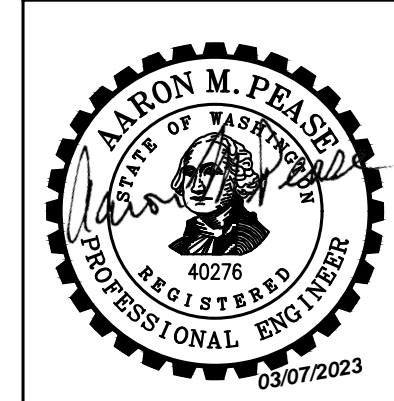
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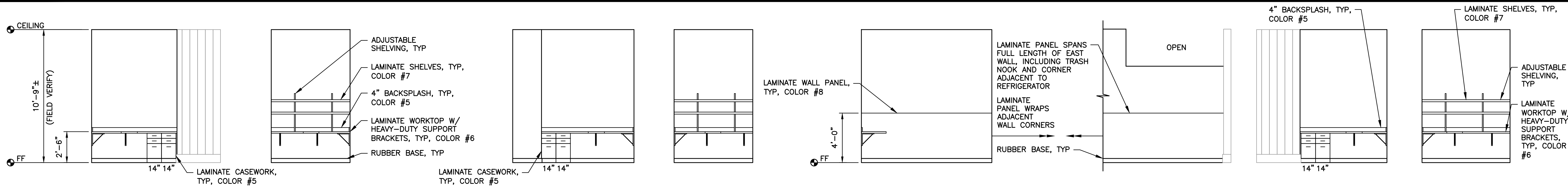


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INTERIOR ELEVATIONS 8





1 WEST
A-11

2 SOUTH
A-11

1 EAST
A-11

2 SOUTH
A-11

1 WEST
A-11

2 NORTH
A-11

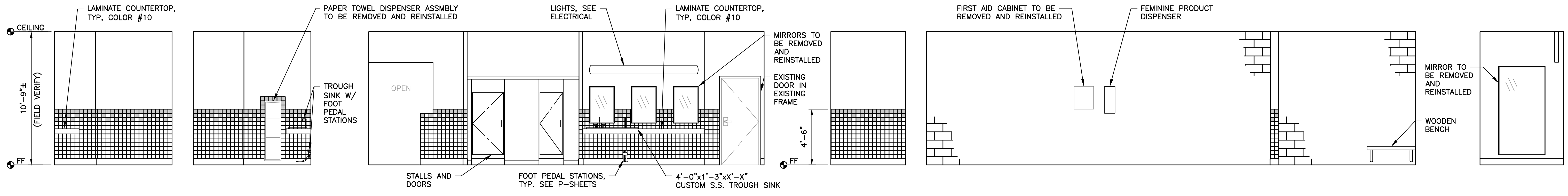
3 EAST
A-11

4 SOUTH
A-11

**INTERIOR ELEVATIONS
SCADA SYS SPEC 1 45**
SCALE: 1/4"=1'-0"

**INTERIOR ELEVATIONS
SCADA SYS SPEC 2 45**
SCALE: 1/4"=1'-0"

**INTERIOR ELEVATIONS
WATER QUALITY 45**
SCALE: 1/4"=1'-0"



1 WEST
A-11

2 EAST
A-11

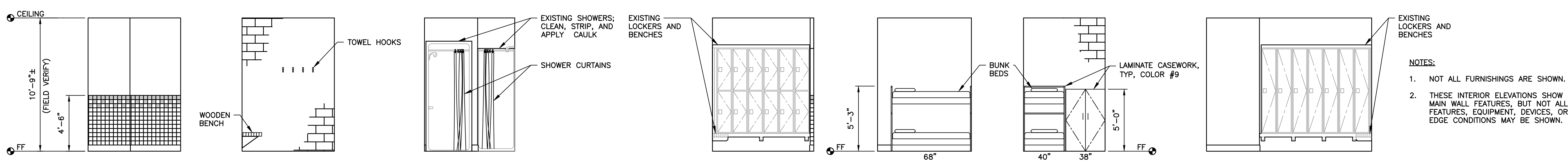
3 SOUTH
A-11

4 WEST
A-11

5 NORTH
A-11

6 EAST
A-11

**INTERIOR ELEVATIONS
WOMENS ROOM 46**
SCALE: 1/4"=1'-0"



1 WEST
A-11

3 EAST
A-11

4 SOUTH
A-11

1 WEST
A-11

2 NORTH
A-11

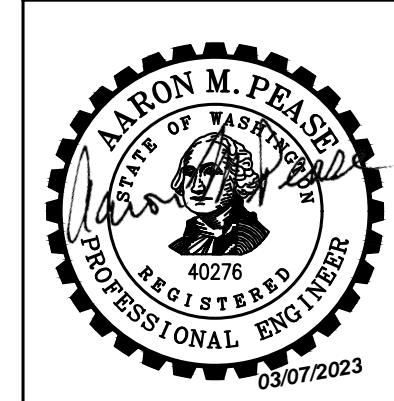
3 EAST
A-11

4 SOUTH
A-11

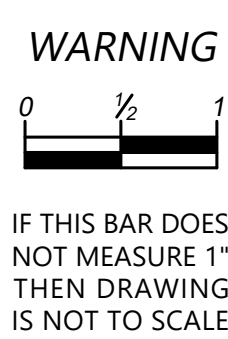
**INTERIOR ELEVATIONS
WOMENS SHOWER ROOM 47**
SCALE: 1/4"=1'-0"

**INTERIOR ELEVATIONS
WOMENS LOCKER ROOM 48**
SCALE: 1/4"=1'-0"

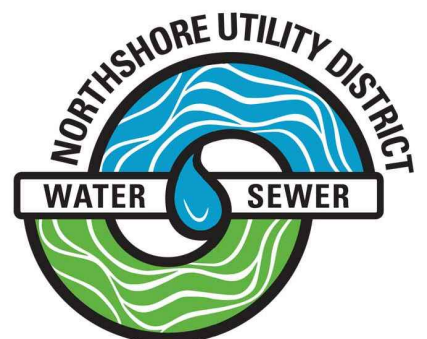
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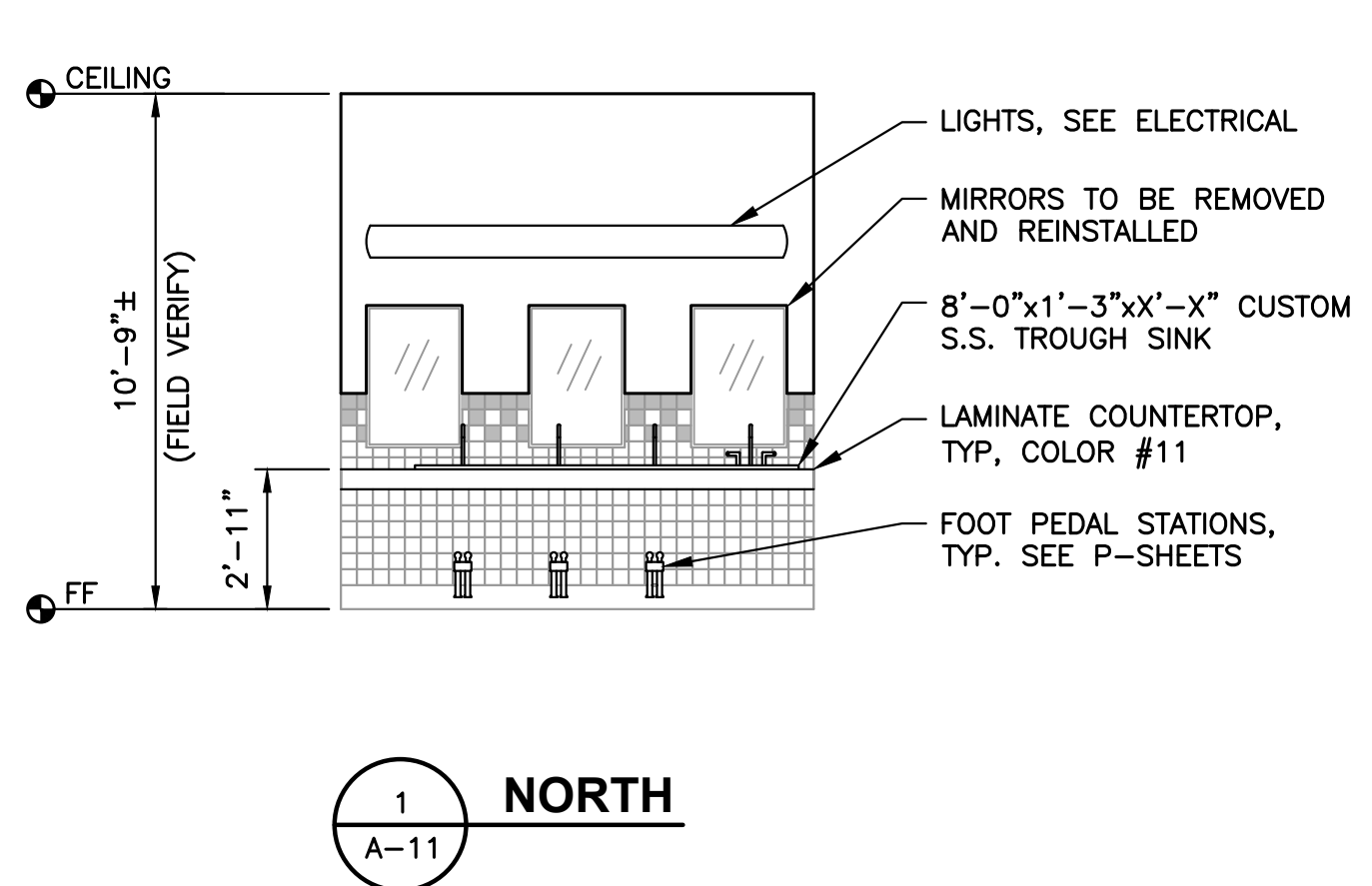
DESIGNED BY	ASD
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CHECKED BY	AMP
APPROVAL	EBD
DATE	MAR. 2023



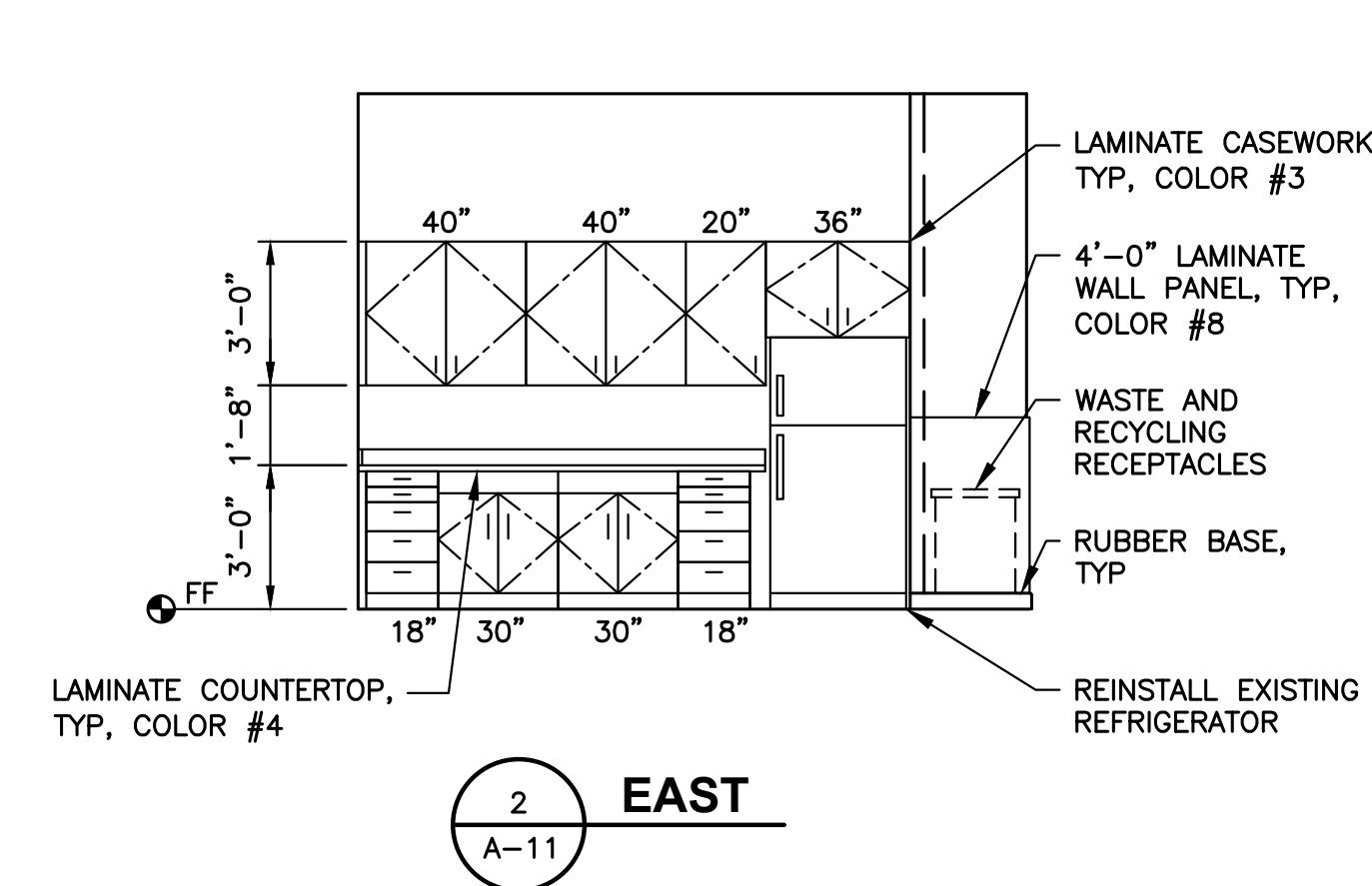
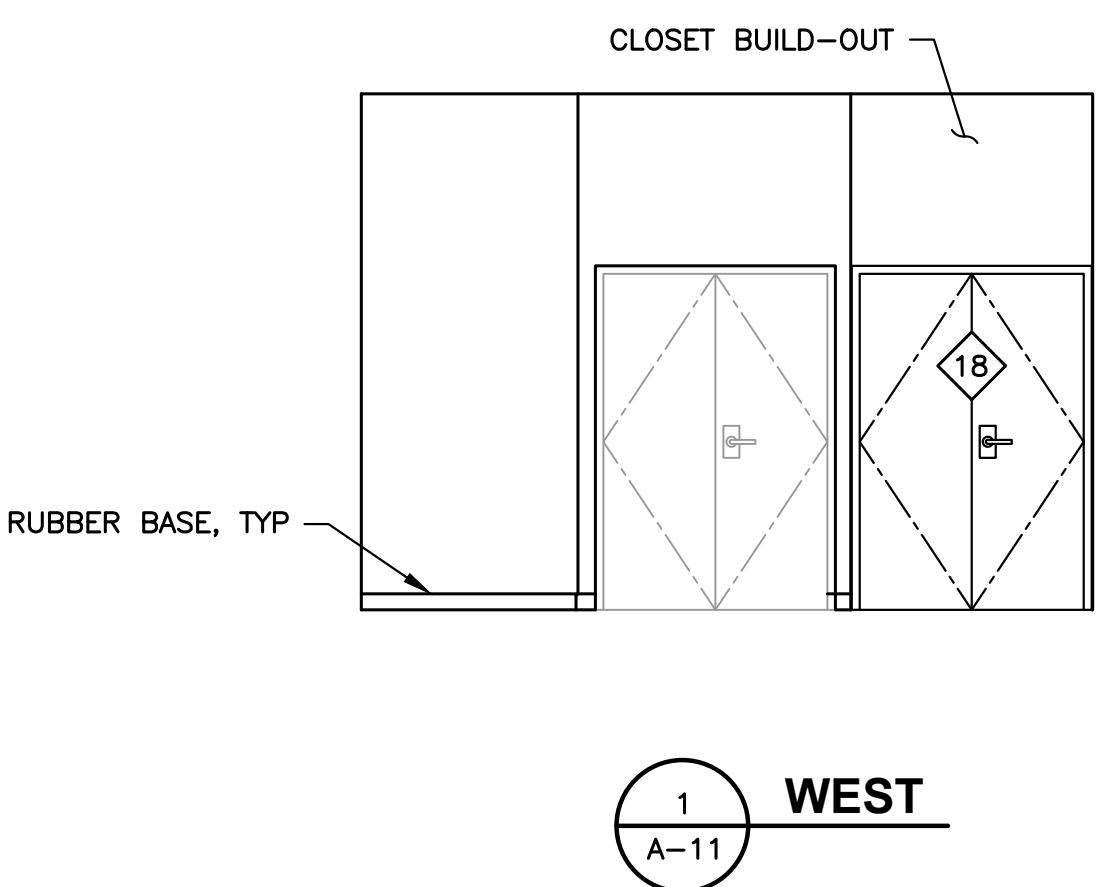
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BUILDING "A" IMPROVEMENTS
INTERIOR ELEVATIONS 9

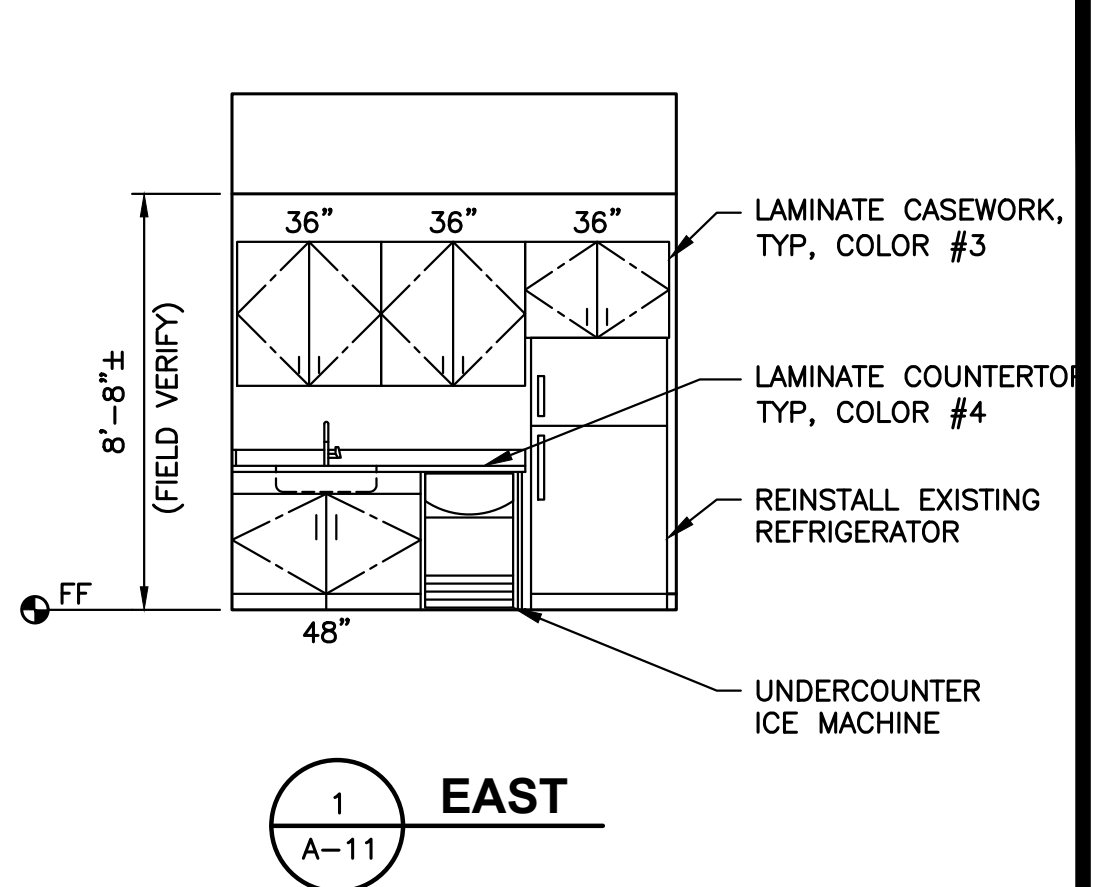
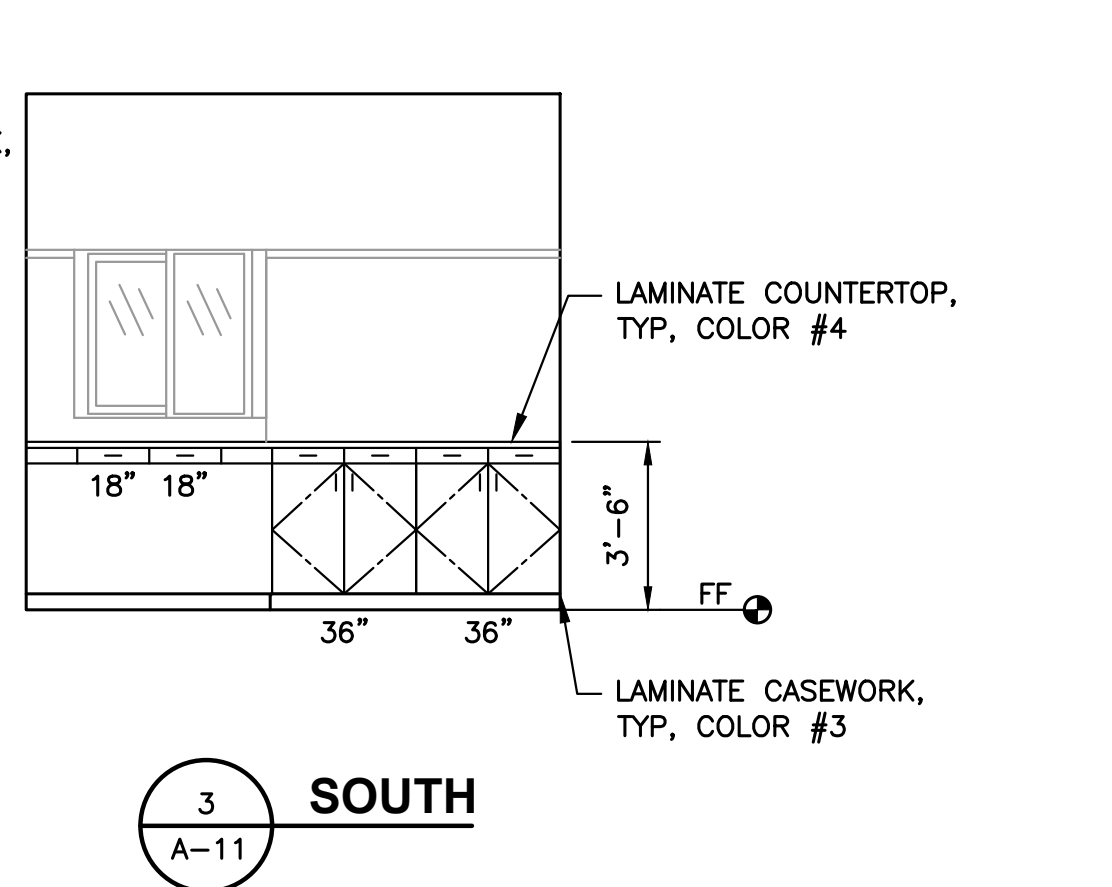
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A-22
OF 24



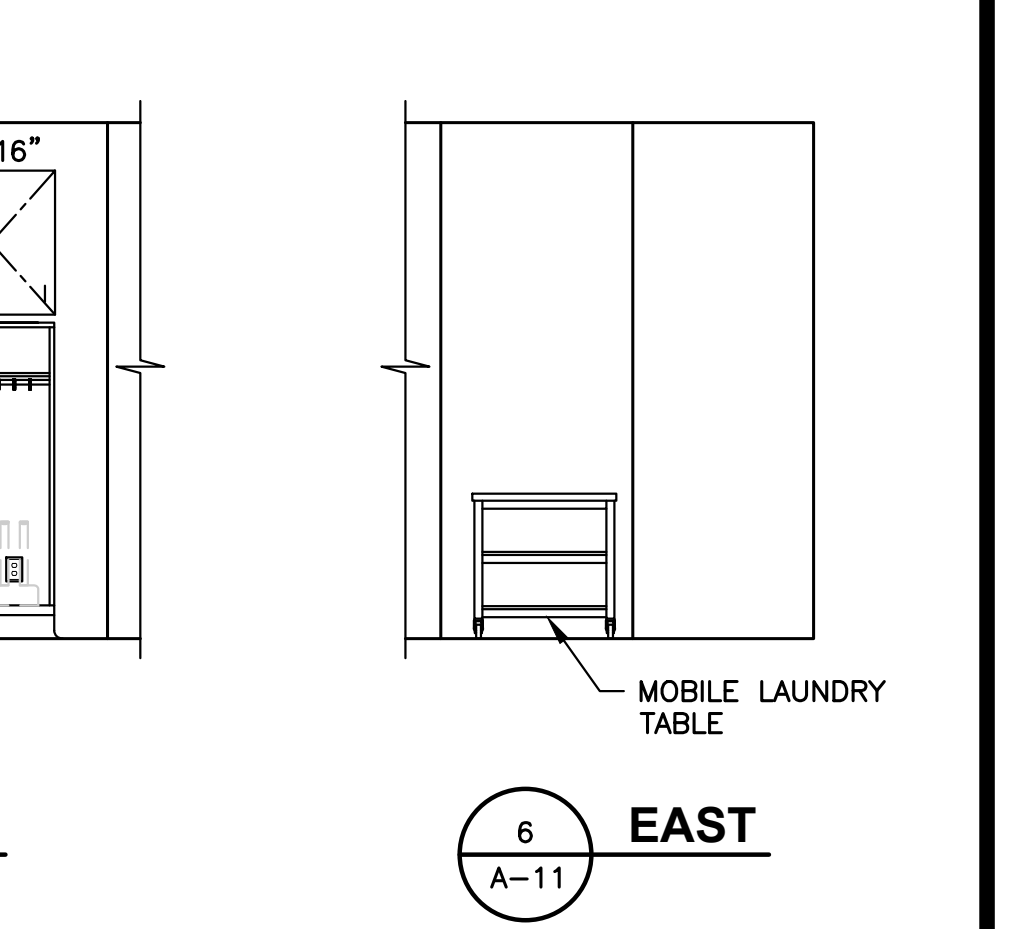
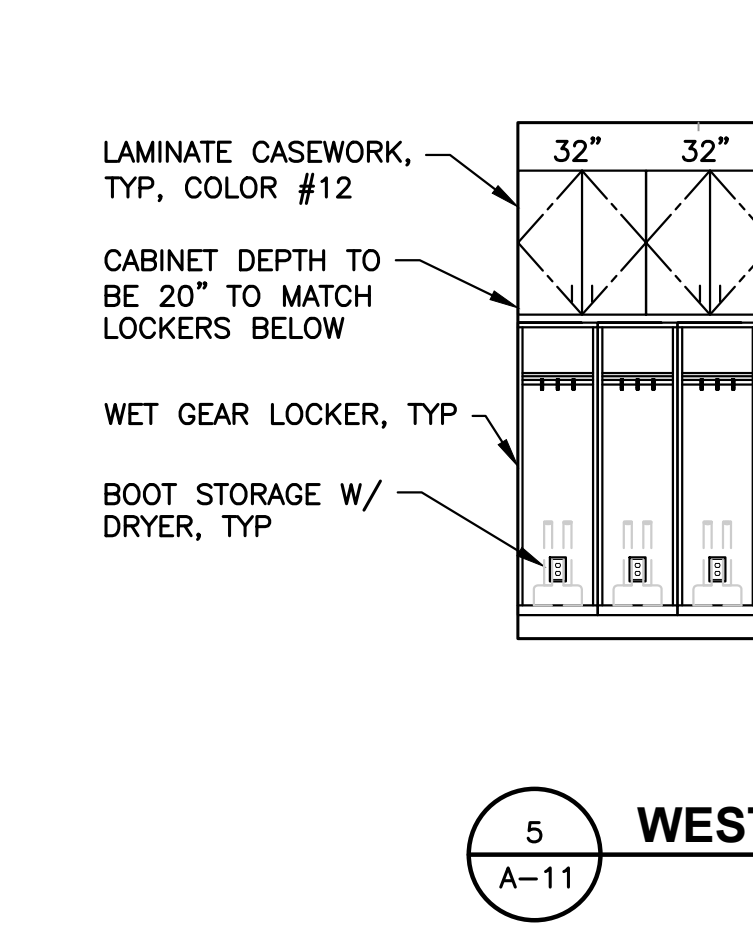
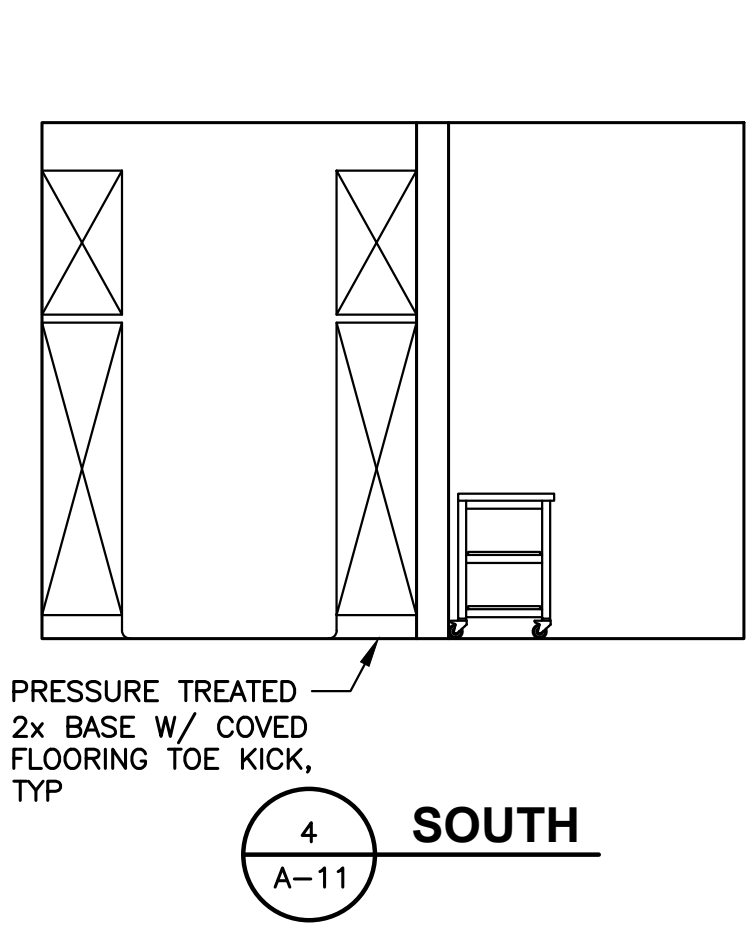
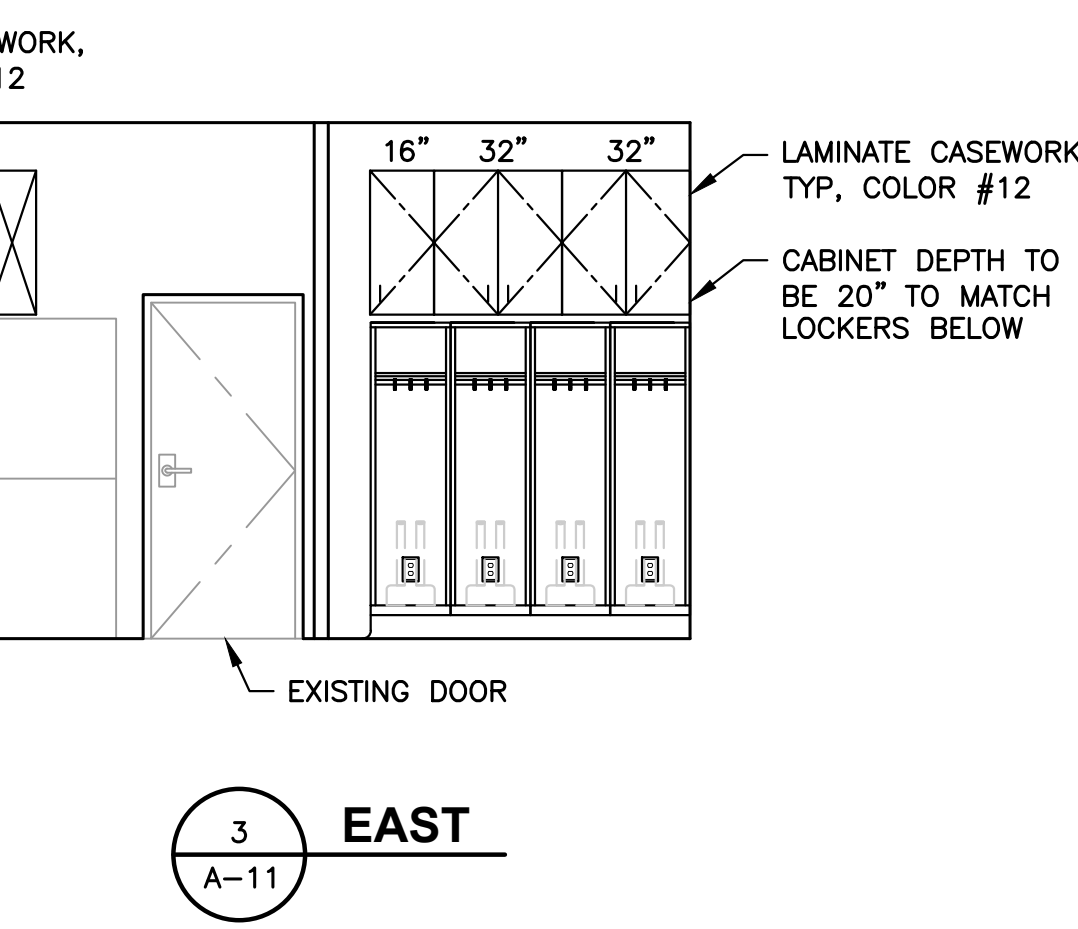
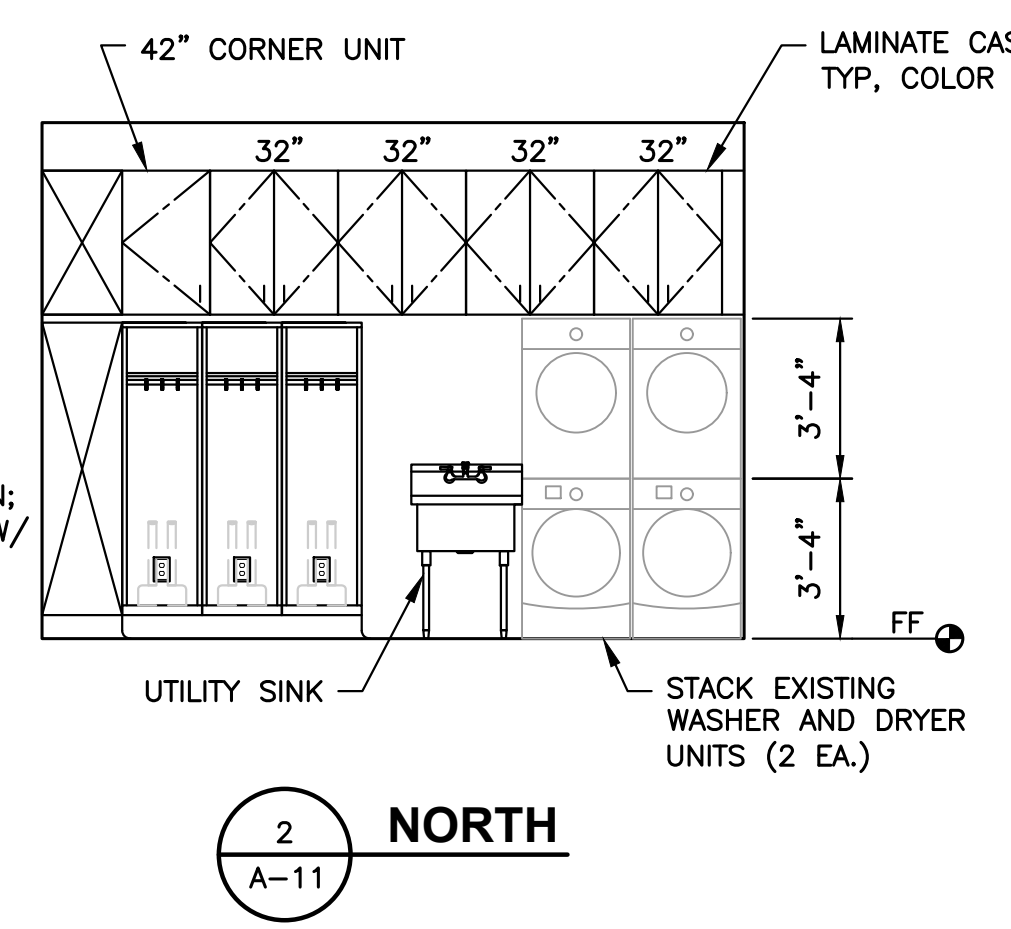
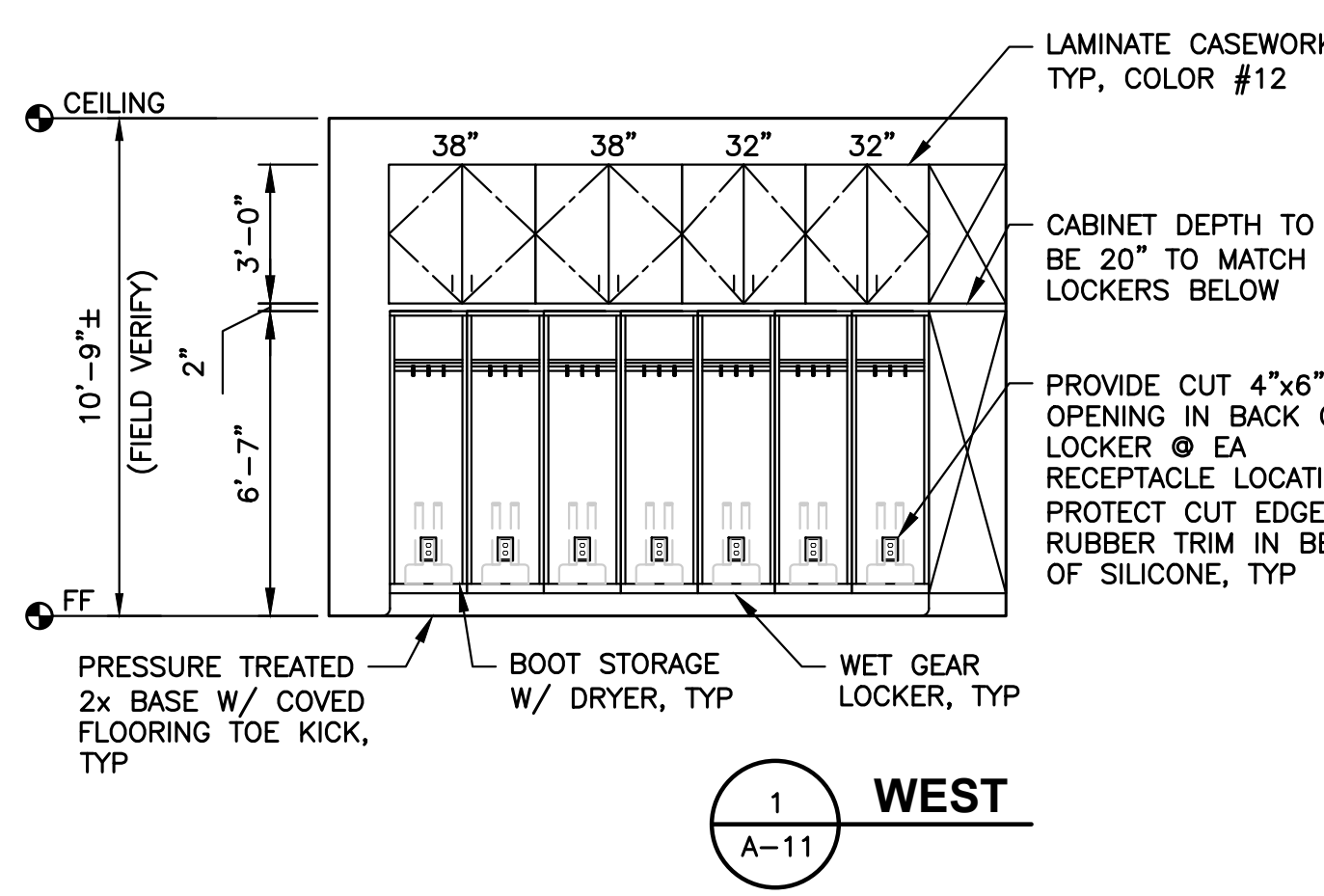
**INTERIOR ELEVATIONS
MENS ROOM 49**
SCALE: 1/4"=1'-0"



**INTERIOR ELEVATIONS
FOYER 56**
SCALE: 1/4"=1'-0"

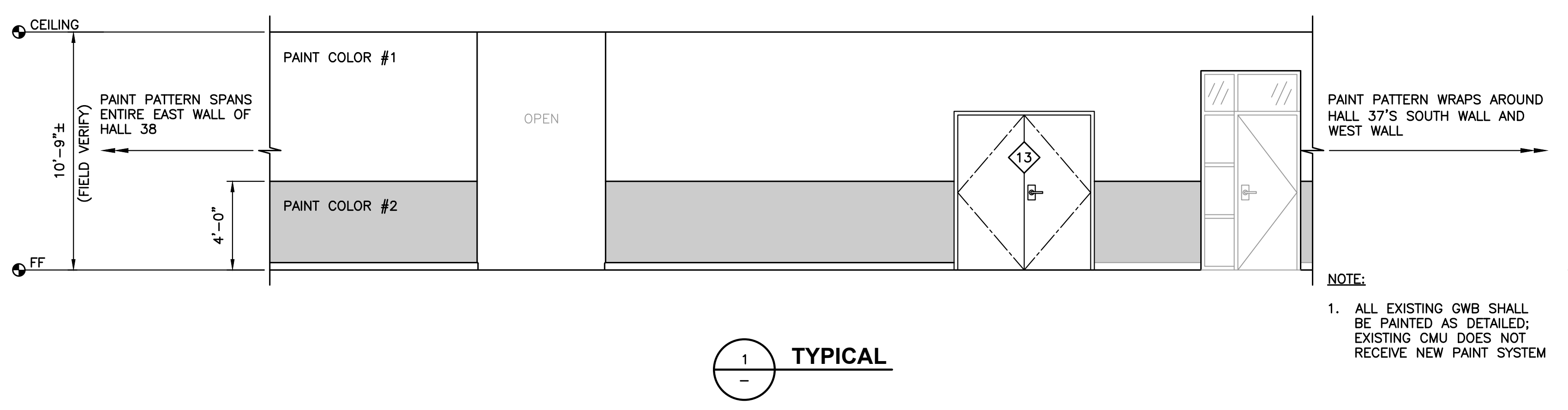


**INTERIOR ELEVATIONS
HALL 58**
SCALE: 1/4"=1'-0"

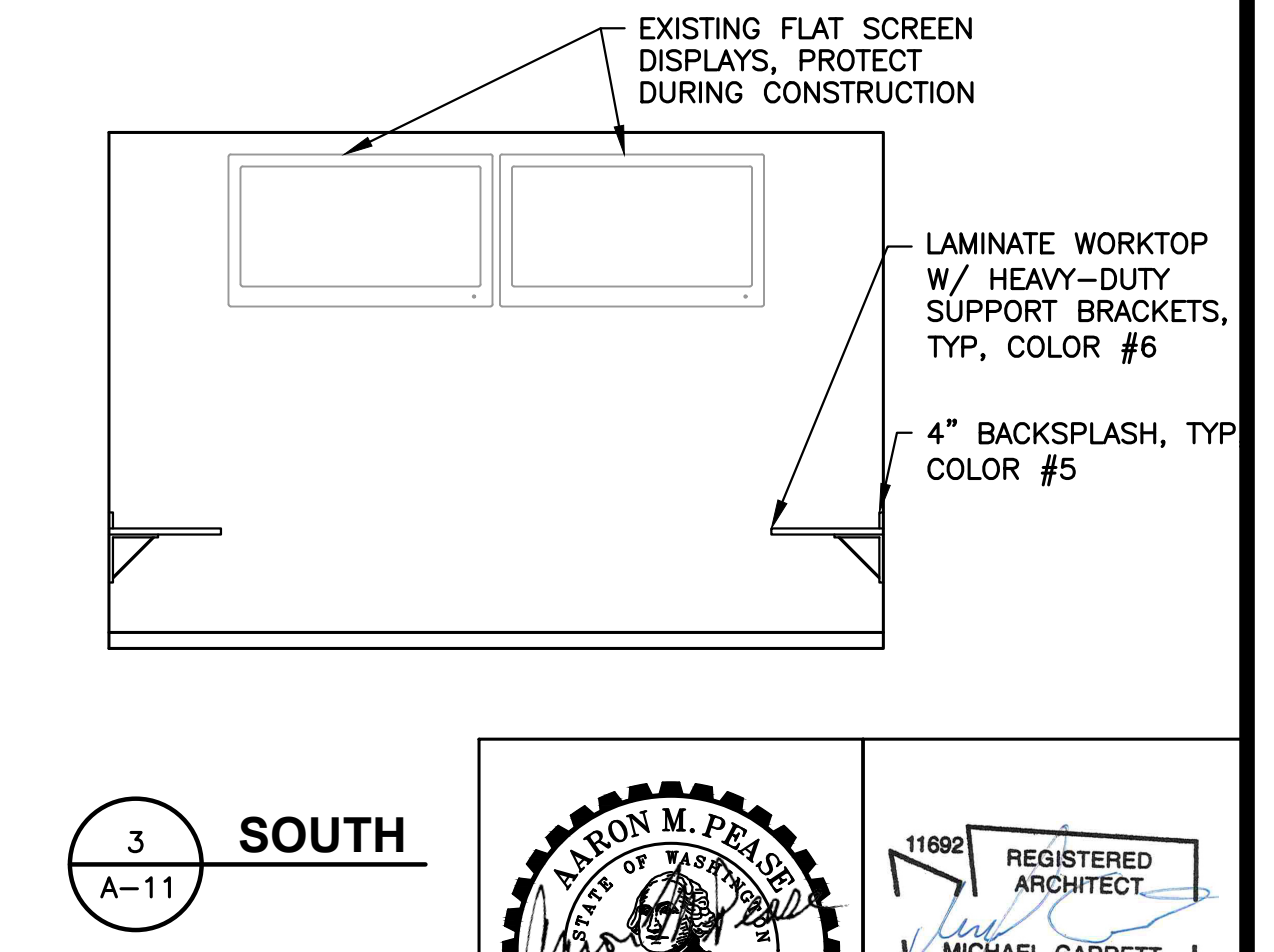
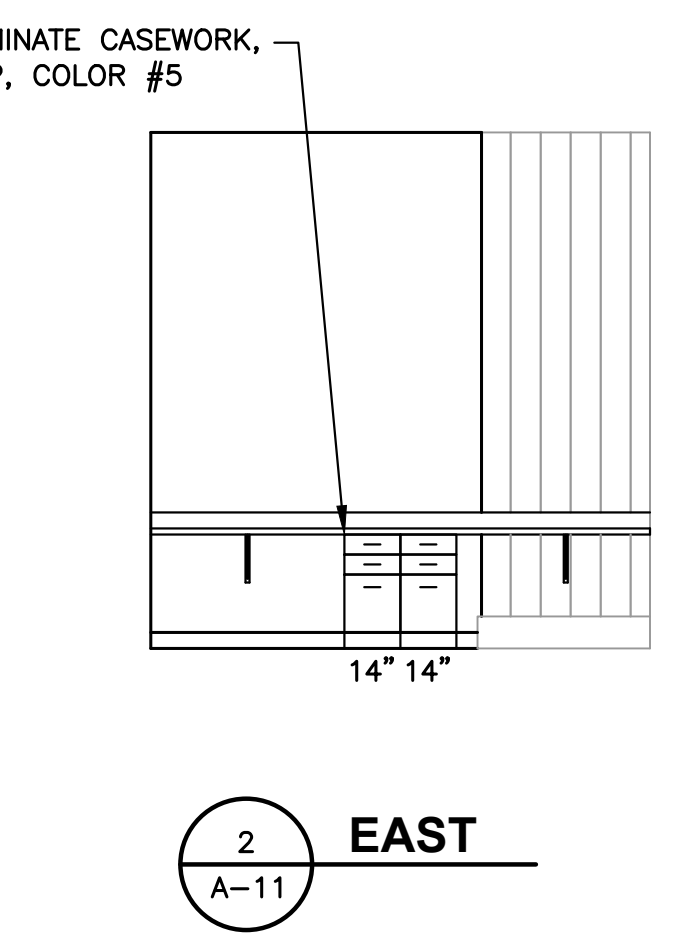
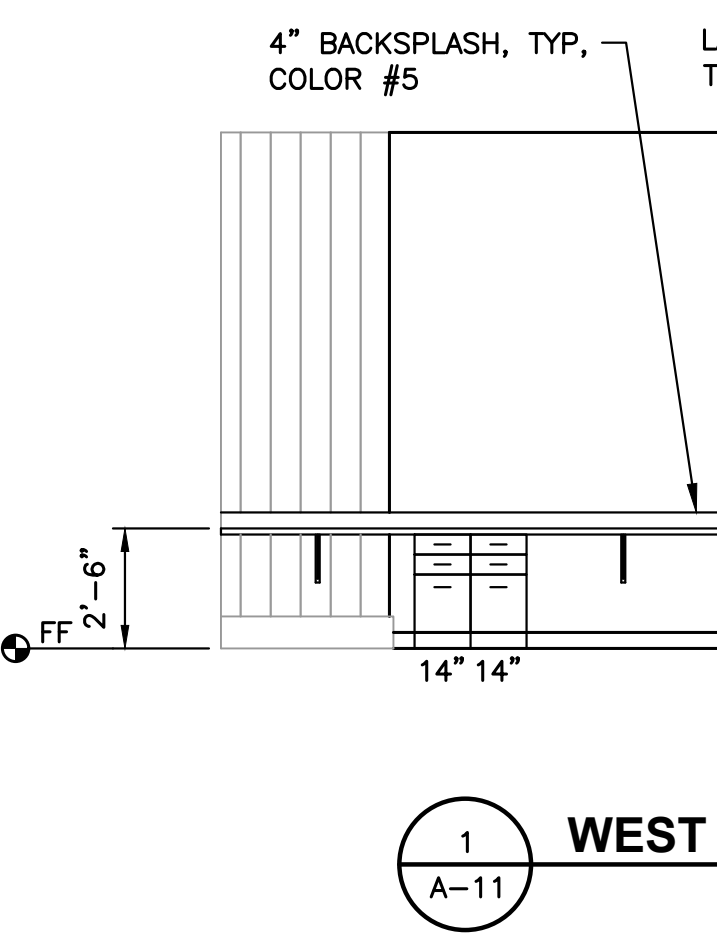


**INTERIOR ELEVATIONS
LAUNDRY 59**
SCALE: 1/4"=1'-0"

NOTES:
1. NOT ALL FURNISHINGS ARE SHOWN.
2. THESE INTERIOR ELEVATIONS SHOW MAIN WALL FEATURES, BUT NOT ALL FEATURES, EQUIPMENT, DEVICES, OR EDGE CONDITIONS MAY BE SHOWN.



**INTERIOR ELEVATIONS
HALL 37 & HALL 38**
SCALE: 1/4"=1'-0"



**INTERIOR ELEVATIONS
OPERATIONS 35 AREA**
SCALE: 1/4"=1'-0"

NO	BY	APPD	REVISION	DATE

WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED BY ASD
DRAWN BY ASD
CHECKED BY AMP
APPROVAL EBD
DATE MAR. 2023

Gray & Osborne, Inc
CONSULTING ENGINEERS

GABBERT
ARCHITECTS
PLANNERS

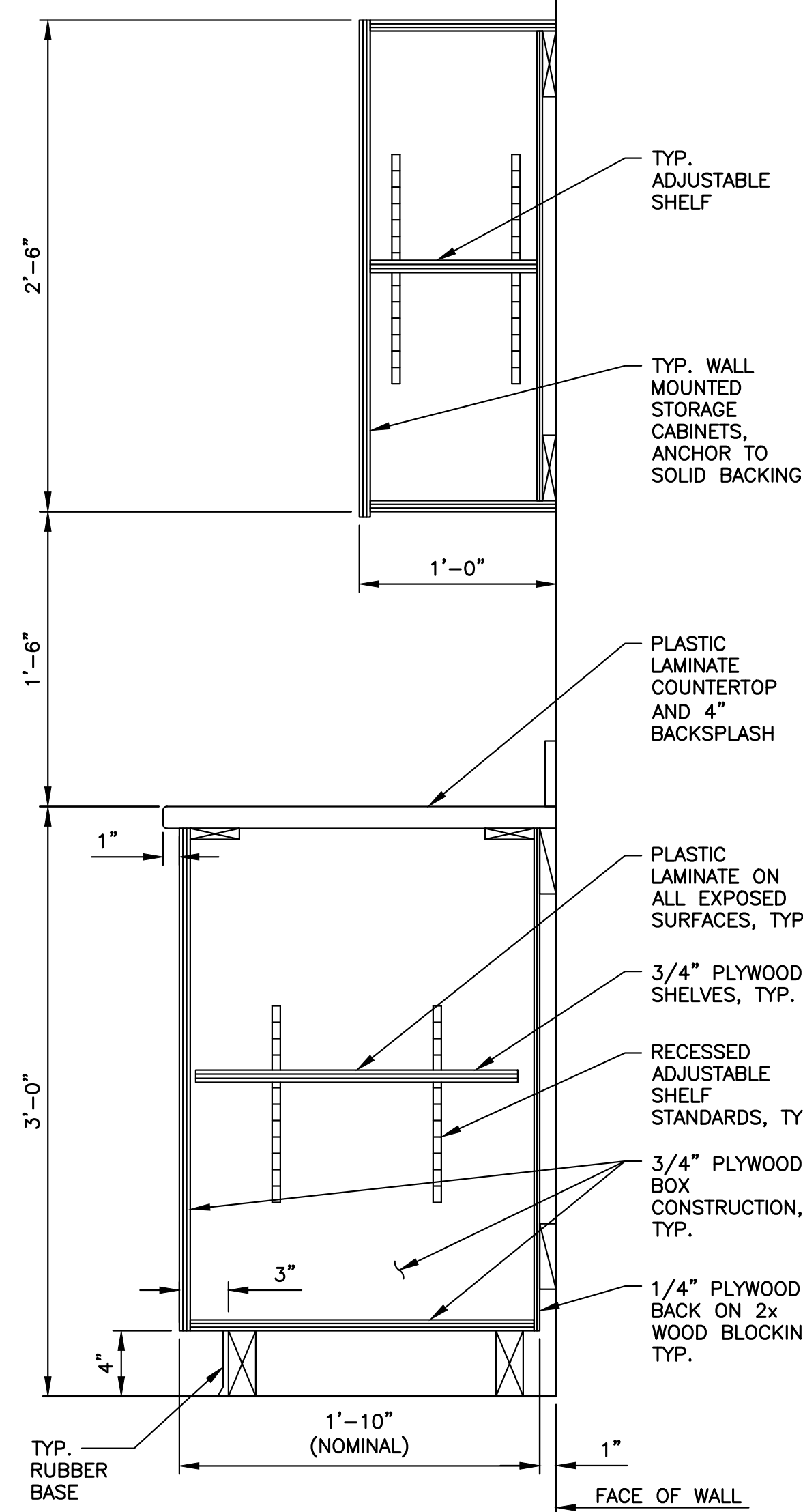
NORTHSHORE UTILITY DISTRICT
6830 NE 185th St. P.O. Box 82489
Kenmore, WA 98028-2684 Kenmore, WA 98028-2684
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CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS
INTERIOR ELEVATIONS 10

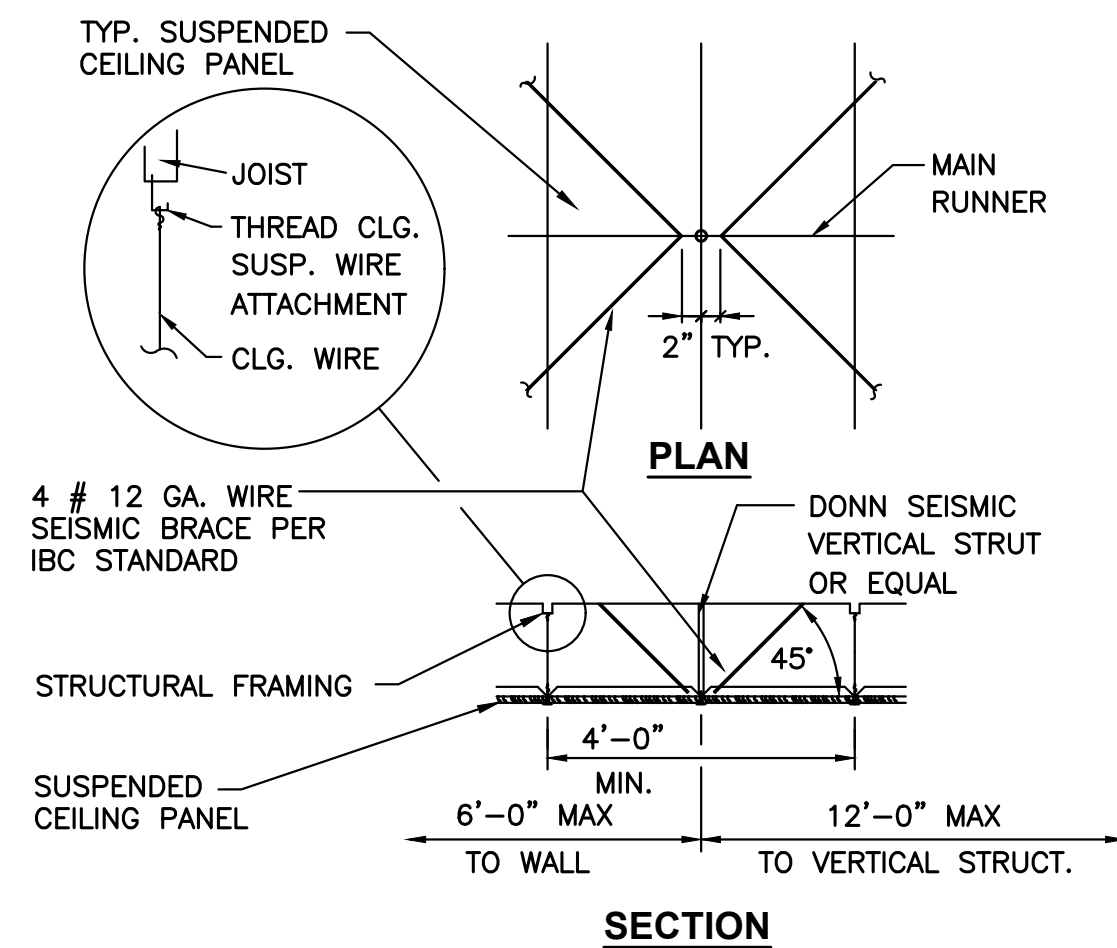
SHEET
A-23
OF 24

11692 REGISTERED ARCHITECT
MICHAEL GARRETT
STATE OF WASHINGTON

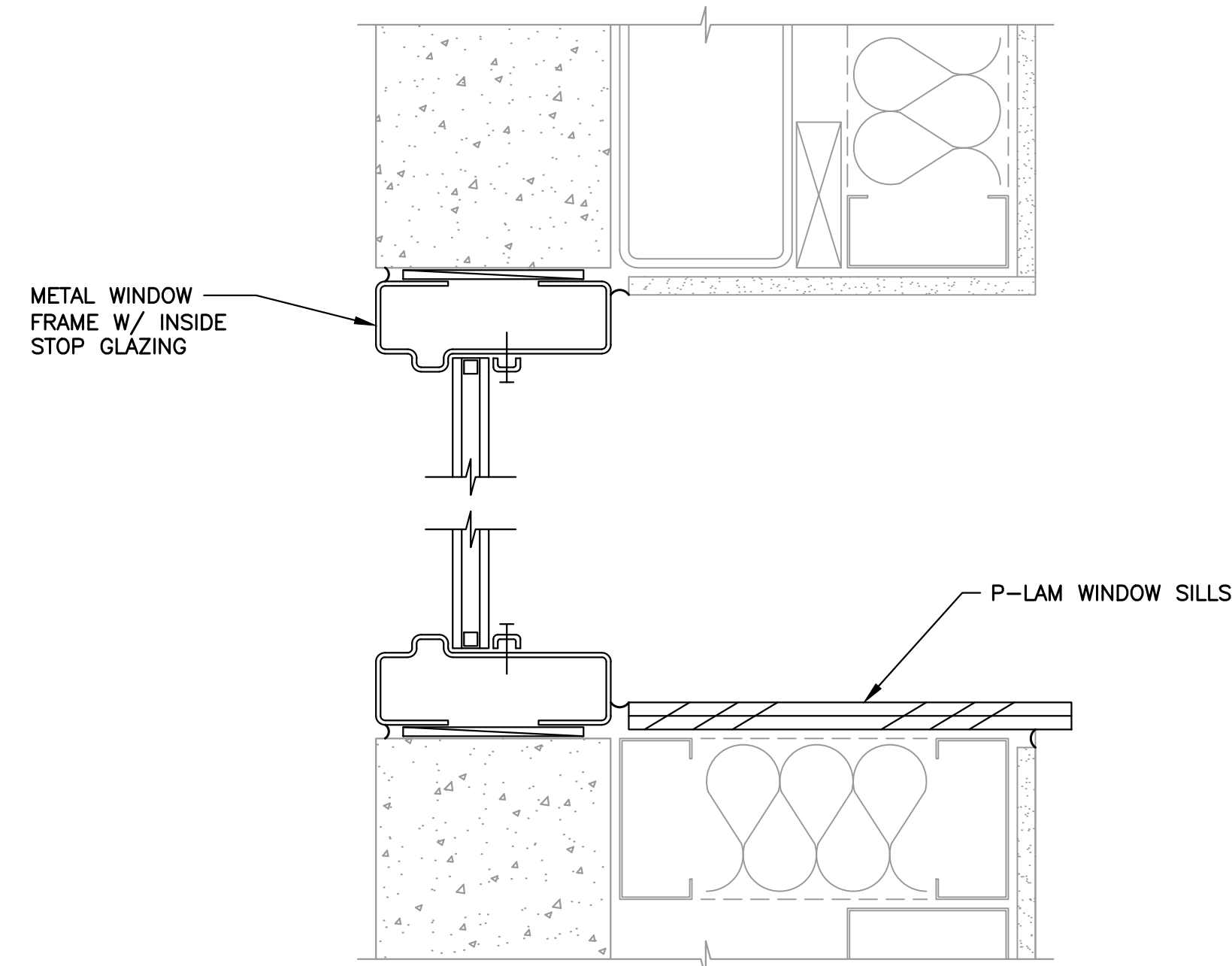
ARON M. PRASEN
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
40276
03/07/2023



1
TYP
LAMINATE FACE CASEWORK DETAIL
SCALE: 1-1/2"=1'-0"



2
TYP
SCP BRACING DETAIL
SCALE: 3"=1'-0"



3
A-21
WINDOW HEAD/SILL DETAIL
SCALE: 3"=1'-0"

NO	BY	APPD	REVISION	DATE

WARNING

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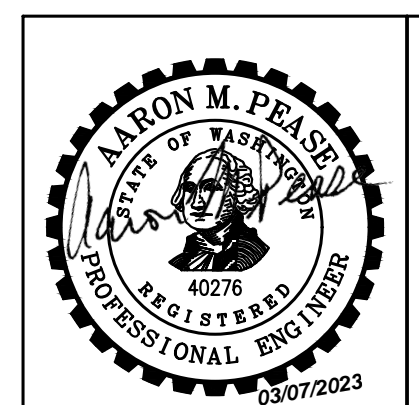
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CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS

ARCHITECTURAL CASEWORK DETAILS

SHEET

A-24
OF 24



HVAC DESIGN CRITERIA

EXISTING CONDITIONS (BASED ON "DISTRICT HEADQUARTERS HVAC UPGRADE" RECORD DRAWINGS, MAY 2011, AND NEUDORFER ENGINEERS INC. "TEST, ADJUST, & BALANCE REPORT," MARCH 2011)

BUILDING A HAS ONE 1,060 MBH COOLING TOWER AND TWO 470 MBH BOILERS WHICH SERVE TWENTY-TWO WATER SOURCE HEAT PUMP UNITS. EACH HEAT PUMP UNIT PROVIDES HEATING AND COOLING TO AN INDIVIDUAL ZONE. EACH HEAT PUMP UNIT INCLUDES AN OUTDOOR AIR INLET AND ECONOMIZER TO PROVIDE ADEQUATE VENTILATION. EXISTING HEAT PUMP UNITS WHICH SERVE SPACES THAT ARE BEING RECONFIGURED AS A PART OF THIS WORK ARE LISTED BELOW; OTHER UNITS ARE NOT INCLUDED.

- HP-1: ROOMS 01, 08, 09, 11, 12, AND 13
235 OA CFM; 1,400 CFM TOTAL
33.0 MBH COOLING; 39.0 MBH HEATING
- HP-2: ROOMS 02 AND 10
60 CFM OA; 715 CFM TOTAL
18.5 MBH COOLING; 24.0 MBH HEATING
- HP-3: ROOMS 03, 04, AND 05
60 CFM OA; 780 CFM TOTAL
18.5 MBH COOLING; 24.0 MBH HEATING
- HP-4: ROOMS 06 AND 07
80 CFM OA; 635 CFM TOTAL
25.0 MBH COOLING; 32.5 MBH HEATING
- HP-5: ROOMS 14 AND 31
175 CFM OA; 2,210 CFM TOTAL
60.0 MBH COOLING; 72.0 MBH HEATING
- HP-7: ROOMS 19 AND 20
80 CFM OA; 415 CFM TOTAL
14.0 MBH COOLING; 18.0 MBH HEATING
- HP-8: ROOM 16
120 CFM OA; 405 CFM TOTAL
11.0 MBH COOLING; 14.5 MBH HEATING
- HP-9: ROOMS 17, 21, 26, AND 27
125 CFM OA; 1,055 CFM TOTAL
30.0 MBH COOLING; 33.5 MBH HEATING
- HP-10: ROOMS 22, 23, 24, AND 25
155 CFM OA; 960 CFM TOTAL
30.0 MBH COOLING; 33.5 MBH HEATING
- HP-11: ROOMS 28, 29, 30, 32, 33, AND 40
200 CFM OA; 1,290 CFM TOTAL
33.0 MBH COOLING; 39.0 MBH HEATING
- HP-16: ROOMS 44 AND 45
195 CFM OA; 945 CFM TOTAL
25.0 MBH COOLING; 32.5 MBH HEATING
- HP-17: ROOMS 41, 42, 43, 56, AND 57
85 CFM OA; 1,295 CFM TOTAL
30.0 MBH COOLING; 33.5 MBH HEATING
- HP-18: ROOMS 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 59, 60, 62, 63
OA BY ERV-1; 1,440 CFM TOTAL
43.0 MBH COOLING; 47.0 MBH HEATING
- ERV-1: OA FOR ROOMS 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 59, 60, 62, 63
1,980 CFM SUPPLY; 1,515 CFM EXHAUST

OA VENTILATION

EACH SPACE IS PROVIDED WITH OA VIA MECHANICAL VENTILATION. ZONES WHICH REQUIRE ECONOMIZER REBALANCING ARE LISTED BELOW. ZONES NOT LISTED BELOW HAVE BEEN DETERMINED TO ALREADY BE RECEIVING AT LEAST THE IMC REQUIRED VENTILATION BASED ON THE KNOWN EXISTING CONDITIONS. EACH ECONOMIZER ASSOCIATED WITH THE SYSTEMS BELOW SHALL BE RECONFIGURED TO SUPPLY AT LEAST THE APPROPRIATE OUTDOOR AIRFLOW PER IMC.

HP-2
SPACE(S): RECEPTION 02, PERMIT TECHNICIAN 10A
REQ'D OA: 81 CFM

HP-17
SPACE(S): CONFERENCE 41, STAFF 45, FOYER 56, OFFICE 57, HALL 58
REQ'D OA: 247 CFM

HEATING/COOLING

ZONES WHICH ARE CHANGING REQUIRED HEATING AND COOLING DUE TO THEIR REMODELING AND/OR CHANGE IN SPACE USE ARE LISTED BELOW WITH THEIR NEW CALCULATED HEATING AND COOLING REQUIREMENTS. ZONES NOT LISTED BELOW HAVE BEEN DETERMINED TO HAVE LESS OR EQUAL REQUIRED HEATING AND COOLING BECAUSE THEIR SPACES ARE NOT BEING SIGNIFICANTLY ALTERED.

HP-1
SPACE(S): LOBBY 01, CONFERENCE 03, CONTRACTOR COUNTER 10, HALL 11
REQ'D HEATING LOAD: 36.6 MBH
REQ'D COOLING LOAD: 33.9 MBH

HP-9
SPACE(S): STAFF 17, HALL 21, HALL 26, OFFICE 26A, OFFICE 26B, OFFICE 27
REQ'D HEATING LOAD: 16.8 MBH
REQ'D COOLING LOAD: 10.5 MBH

HP-11
SPACE(S): OFFICE 28, ARCHIVE 29, OFFICE 30, OFFICE 30A, WORKROOM 32, STORAGE 33, OFFICE 40
REQ'D HEATING LOAD: 22.5 MBH
REQ'D COOLING LOAD: 15.6 MBH

HP-17
SPACE(S): CONFERENCE 41, STAFF 45, FOYER 56, OFFICE 57, HALL 58
REQ'D HEATING LOAD: 26.6 MBH
REQ'D COOLING LOAD: 20.5 MBH

COPIED FROM "DISTRICT HEADQUARTERS HVAC UPGRADE" RECORD DRAWINGS, MAY 2011

ENERGY CODE LEGEND

THE HVAC SYSTEM IS BASED ON THE EXISTING CRITERIA OF

COMPONENT:	DESIGN:
ROOF "U" VALUE (BTUH/S.F. F)	=0.031
WALL "U" VALUE (BTUH/S.F. F)	=0.046
FLOOR "U" VALUE (BTUH/S.F. F)	=.713
GLASS "U" VALUE (BTUH/S.F. F)	=0.58
GLASS SHADE COEFFICIENT	=0.81
LIGHTING (WATTS/S.F.)	=1.0
MISC. EQUIP. (WATTS/S.F.)	=VARIES BY ZONE
PEOPLE PER 100 SQ. FT.	=VARIES BY ZONE
COOLING INDOOR DESIGN TEMP. (F)	=74-75 (PER 2018 WSEC)
COOLING OUTDOOR DESIGN TEMP. (F)	=84/66
HEATING INDOOR DESIGN TEMP. (F)	=70
HEATING OUTDOOR DESIGN TEMP. (F)	=23

HVAC ABBREVIATIONS

A	AMPERE
ACH	AIR CHANGES PER HOUR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
BDD	BACK DRAFT DAMPER
BLDG	BUILDING
BTU	BRITISH THERMAL UNIT
CA	COMPRESSED AIR
CAP	CAPACITY
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CO2	CARBON DIOXIDE GAS
CWS	COLD WATER SUPPLY
DIA	DIAMETER
DN	DOWN
EA	EXHAUST AIR
ECM	ELECTRONICALLY COMMUTATED MOTOR
EF	EXHAUST FAN
'F	DEGREES FAHRENHEIT
FS	FLOW SWITCH
GPM	GALLONS PER MINUTE
HOA	HAND/OFF/AUTO
MA	MIXED AIR
MBH	1,000 BTU'S/HR
MCA	MINIMUM CIRCUIT AMPS
MFR	MANUFACTURER
MOCP	MAXIMUM OVER CURRENT PROTECTION
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NG	NATURAL GAS
NO	NORMALLY OPEN
OA	OUTSIDE AIR
POC	POINT OF CONNECTION
R	RETURN
RA	RETURN AIR
SA	SUPPLY AIR
SD	SMOKE DETECTOR
SP	STATIC PRESSURE
TEMP	TEMPERATURE
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
VD	VOLUME DAMPER
VRF	VARIABLE REFRIGERANT FLOW
W	WATT
WC	WATER COLUMN
WP	WALL PENETRATION

CONTROL DESCRIPTION:

SEE DETAIL 1 ON SHEET H-3 FOR TYPICAL HEAT PUMP CONTROL DIAGRAM.

ALL HEAT PUMPS SHALL HAVE CONSTANT FAN OPERATION IN OCCUPIED AND OVERRIDE MODE, AND AUTO FAN IN UNOCCUPIED MODE.

ALL HEAT PUMPS SHALL HAVE MINIMUM OA IN OCCUPIED MODE. MINIMUM CFM SHALL BE SET DURING AIR BALANCE. SEE OA VENTILATION REQUIREMENTS ABOVE.

HEAT PUMP SYSTEMS HAVE EXISTING MODULATING ECONOMIZER WITH DUAL ENTHALPY CONTROLS AND EXISTING DISCHARGE AIR SENSORS.

HP-16 SHALL NO LONGER INCLUDE A RADIANT CEILING PANEL. CONTROLS SHALL BE RECONFIGURED TO ENABLE THE COMPRESSOR WITH THE FIRST STAGE OF HEAT.

CO2 ROOM SENSOR FROM EXISTING ROOM 30 (CONFERENCE) GETS RELOCATED TO NEW ROOM 41 (CONFERENCE) AND SHALL CONTROL THE VENTILATION PROVIDED BY HP-17. CONTROL SCHEME SPECIFICS SHALL BE COPIED FROM AN EXISTING SYSTEM WITH CO2 SENSOR.

NEW CO2 SENSOR [C 01] SHALL BE LOCATED IN ROOM 03 (CONFERENCE) AND CONTROL THE VENTILATION PROVIDED BY HP-1. CONTROL SCHEME SPECIFICS SHALL BE COPIED FROM AN EXISTING SYSTEM WITH CO2 SENSOR.

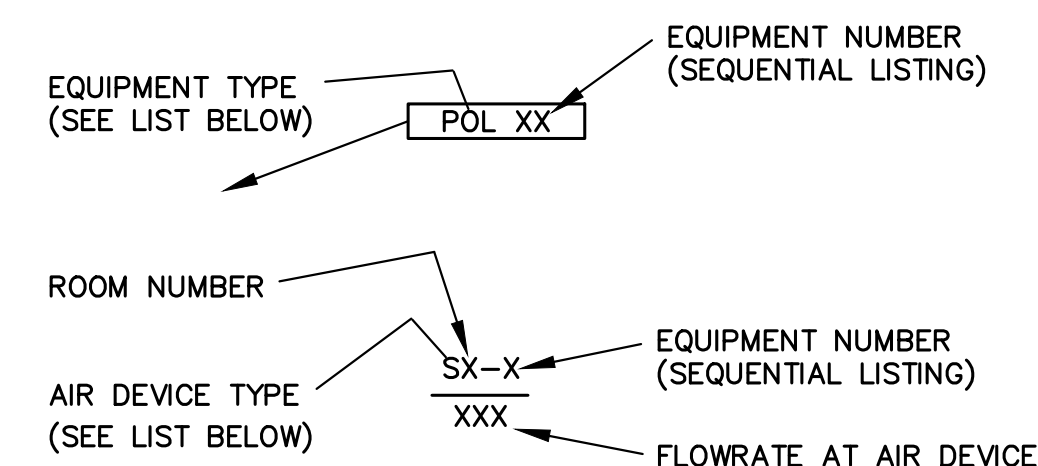
HVAC SYMBOLS

	RECTANGULAR DUCT (DIMENSION SHOWN X DIMENSION HIDDEN)
	INTERIOR LINED ACOUSTICAL INSULATION
	8" DIAMETER ROUND DUCT
	TRANSITION, CONCENTRIC, 15" MAX
	TRANSITION, ECCENTRIC, 30" MAX
	TRANSITION, SQUARE TO ROUND
	STANDARD RADIUS ELBOW
	SQUARE THROAT ELBOW W/ TURNING VANES
	45 DEGREE RECTANGULAR BRANCH
	BRANCH, 45° TEE WYE
	DUCT CHANGE OF ELEVATION
	MANUAL VOLUME DAMPER
	EXHAUST/RETURN/OA DUCT (TOWARD VIEWER)
	EXHAUST/RETURN/OA DUCT (AWAY FROM VIEWER)
	SUPPLY DUCT (TOWARD VIEWER)
	SUPPLY DUCT (AWAY FROM VIEWER)
	ROUND DUCT TOWARD/AWAY
	FLEXIBLE DUCTWORK
	FLEXIBLE DUCT CONNECTION (TO AIR HANDLING EQUIPMENT)
	SECTION EXHAUST/RETURN/OA
	SECTION SUPPLY DUCT
	CEILING DIFFUSER, ROUND NECK
	THERMOSTAT OR CO2 SENSOR, WALL MOUNTED WALL TYPE VARIES, SEE S-SHEETS FOR WALL TYPE
	ELECTRIC MOTOR
	FLOW SWITCH
	FLOW DIRECTION, EXHAUST LOUVER OR SUPPLY DIFFUSER/GRILLE
	FLOW DIRECTION, INTAKE LOUVER OR EXHAUST/RETURN GRILLE

HVAC GENERAL NOTES

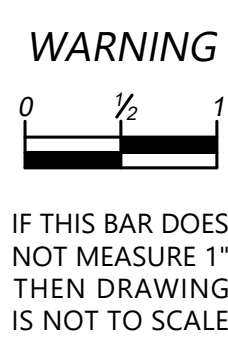
1. MATERIALS, METHODS AND INSTALLATION SHALL COMPLY WITH THE CONTRACT SPECIFICATIONS AND WITH THE PROVISIONS OF THE 2018 INTERNATIONAL MECHANICAL CODE, 2018 INTERNATIONAL BUILDING CODE, 2018 INTERNATIONAL FIRE CODE AS AMENDED BY THE STATE OF WASHINGTON AND THE LOCAL AUTHORITY HAVING JURISDICTION.
2. THESE PLANS ARE SCHEMATIC AND DO NOT SHOW EXACT ROUTING OR EVERY OFFSET, WHICH MAY BE REQUIRED. THE HVAC CONTRACTOR IS TO COORDINATE WITH ALL OTHER TRADES AND IS TO VERIFY ALL CLEARANCES BEFORE COMMENCING WORK.
3. CONTRACTOR SHALL VERIFY THE DIMENSIONS WITH THE EQUIPMENT MANUFACTURER TO PROVIDE DUCT TRANSITIONS TO HVAC VENTILATORS, FANS, LOUVERS, OR SUPPLY/EXHAUST GRILLES TO MATCH THE INLET/OUTLET DIMENSIONS OF THE EQUIPMENT.
4. PROVIDE EARTHQUAKE RESTRAINT FOR HVAC EQUIPMENT IN ACCORDANCE WITH SMACNA RESTRAINT MANUAL AS REQUIRED BY 2018 INTERNATIONAL BUILDING CODE REQUIREMENTS.
5. CONSTRUCTION, SUPPORTS AND INSTALLATION SHALL BE INSTALLED AND COMPLY WITH THE 2018 INTERNATIONAL MECHANICAL CODE (IMC) AND WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE.
6. ALL DUCTWORK IS CLASSIFIED AS LOW PRESSURE.
7. BALANCING: ALL HVAC SYSTEMS SHALL BE BALANCED BY A LICENSED CONTRACTOR IN ACCORDANCE WITH ACCEPTED ENGINEERING STANDARDS AND SPECIFICATION. AN AIR BARRIER TEST SHALL BE PERFORMED IN ACCORDANCE WITH THE WASHINGTON STATE ENERGY CODE AND ASTM E779.
8. LOCATE THERMOSTATS 5 FEET AFF. UNLESS OTHERWISE NOTED.
9. PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTWORK CONNECTING TO EQUIPMENT.
10. CONTRACTOR SHALL COORDINATE CEILING EQUIPMENT LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND ELECTRICAL LIGHTING LAYOUT.
11. BUILDING HVAC DOCUMENTS SUCH AS RECORDS, CALCULATIONS, COMPLIANCE FORMS, AND EQUIPMENT MANUALS SHALL BE SUPPLIED TO THE BUILDING OWNER.

HVAC EQUIPMENT & AIR DEVICE IDENTIFICATIONS



EQUIPMENT	AIR_DEVICE
C	CONTROLLER
EF	EXHAUST FAN
ERV	ENERGY RECOVERY VENTILATOR
FC	FAN COIL
HP	HEAT PUMP
HT	HEATER
MD	MOTORIZED DAMPER
SF	SUPPLY FAN
SW	SWITCH
T	THERMOSTAT
VD	VOLUME DAMPER
E	EXHAUST GRILLE
LVR	LOUVER
R	RETURN GRILLE
S	SUPPLY DIFFUSER/GRILLE

NO	BY	APPD	REVISION	DATE



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DATE	MAR. 2023



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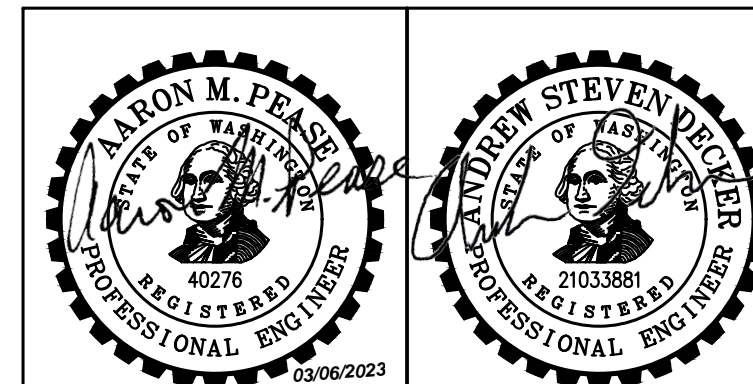
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CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS

HVAC NOTES

SHEET

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OF 6

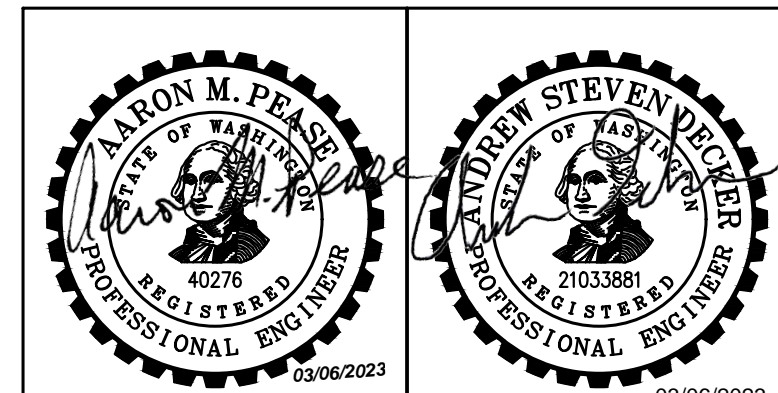


GRILLE/DIFFUSER SCHEDULE							
ROOM NAME	DIFFUSER/GRILLE NO.	DESIGN AIRFLOW (CFM)	TYPE	VINTAGE	MANUFACTURER & MODEL NO.	SIZE (WxL)	REMARKS
LOBBY	S1-1	300	SUPPLY DIFFUSER	NEW	PRICE SDS OR EQUAL	7"x48"	PROVIDE SURFACE MOUNTING, 4 SLOTS, SDB PLENUM BOX, OPPOSED FLOW PATTERN, AND BAKED ENAMEL FINISH.
	S1-2	300	SUPPLY DIFFUSER	NEW	PRICE SDS OR EQUAL	7"x48"	PROVIDE SURFACE MOUNTING, 4 SLOTS, SDB PLENUM BOX, OPPOSED FLOW PATTERN, AND BAKED ENAMEL FINISH.
	R1-1		RETURN DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
	R1-2		RETURN DIFFUSER	NEW	PRICE PDR OR EQUAL	24"x24"	PROVIDE SURFACE MOUNTING, AND BAKED ENAMEL FINISH.
RECEPTION	S2-1	200	SUPPLY DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
	S2-2	200	SUPPLY DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
NEW CONFERENCE	S3-1	175	SUPPLY DIFFUSER	NEW	PRICE SMCD OR EQUAL	24"x24"	PROVIDE CEILING TILE MOUNTING, AND BAKED ENAMEL FINISH.
	S3-2	175	SUPPLY DIFFUSER	NEW	PRICE SMCD OR EQUAL	24"x24"	PROVIDE CEILING TILE MOUNTING, AND BAKED ENAMEL FINISH.
	R3-1		RETURN DIFFUSER	NEW	PRICE PDR OR EQUAL	24"x24"	PROVIDE CEILING TILE MOUNTING, AND BAKED ENAMEL FINISH.
OFFICE	S4-1	362	SUPPLY DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
OFFICE	S5-1	362	SUPPLY DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
MECHANICAL	S9-1	50	SUPPLY DIFFUSER	EXISTING			
CONTRACTOR COUNTER	S10-1	150	SUPPLY DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
PERMIT TECHNICIAN	S10A-1	200	SUPPLY DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
HALL	R11-1		SUPPLY DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
RESTROOM	S12-1	50	SUPPLY DIFFUSER	EXISTING			
RESTROOM	S13-1	50	SUPPLY DIFFUSER	EXISTING			
CONFERENCE	S16-1	370	SUPPLY DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
	R16-1		RETURN DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
STAFF	S17-1	125	SUPPLY DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
	R17-1		RETURN DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
OFFICE	S19-1	240	SUPPLY DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
	R19-1		RETURN DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
OFFICE	S20-1	220	SUPPLY DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
	R20-1		RETURN DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
HALL	S21-1		SUPPLY DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
OFFICE	S22-1		SUPPLY DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
INSPECTORS	S23-1	150	SUPPLY DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
	S23-2	150	SUPPLY DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
	R23-1		RETURN DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
OFFICE	S24-1	185	SUPPLY DIFFUSER	EXISTING			
OFFICE	S25-1	250	SUPPLY DIFFUSER	EXISTING			
HALL	S26-1		SUPPLY DIFFUSER	EXISTING			

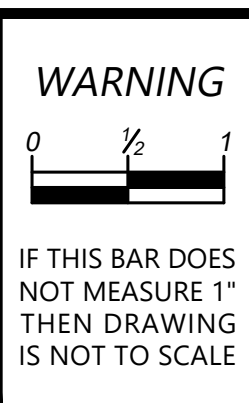
OFFICE	S26A-1	250	SUPPLY DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
	R26A-1		RETURN DIFFUSER	NEW	PRICE PDR OR EQUAL	24"x24"	PROVIDE CEILING TILE MOUNTING, AND BAKED ENAMEL FINISH.
OFFICE	S26B-1	250	SUPPLY DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
	R26B-1		RETURN DIFFUSER	NEW	PRICE PDR OR EQUAL	24"x24"	PROVIDE CEILING TILE MOUNTING, AND BAKED ENAMEL FINISH.
OFFICE	S27-1	150	SUPPLY DIFFUSER	NEW	PRICE SMCD OR EQUAL	24"x24"	PROVIDE CEILING TILE MOUNTING, AND BAKED ENAMEL FINISH.
	R27-1		RETURN DIFFUSER	NEW	PRICE PDR OR EQUAL	24"x24"	PROVIDE CEILING TILE MOUNTING, AND BAKED ENAMEL FINISH.
HALL	R27-2		RETURN DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
OFFICE	S28-1	150	SUPPLY DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
	R28-1		RETURN DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
ARCHIVE	S29-1	150	SUPPLY DIFFUSER	EXISTING			
	R29-1		RETURN DIFFUSER	EXISTING			
OFFICE	S30-1	175	SUPPLY DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
	R30-1		RETURN DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
OFFICE	S30A-1	175	SUPPLY DIFFUSER	NEW			PROVIDE CEILING TILE MOUNTING, AND BAKED ENAMEL FINISH.
STAFF	S31-1	450	SUPPLY DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
	S31-2	450	SUPPLY DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
	S31-3	450	SUPPLY DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
	S31-4	450	SUPPLY DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
	R31-1		RETURN DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
	R31-2		RETURN DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
WORKROOM	S32-1	200	SUPPLY DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
STORAGE/PLOT/COPY	S33-1	225	SUPPLY DIFFUSER	EXISTING			
OFFICE	S40-1	150	SUPPLY DIFFUSER	EXISTING			
CONFERENCE	S41-1	200	SUPPLY DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
	S41-2	200	SUPPLY DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
	S41-3	200	SUPPLY DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
	R41-1		RETURN DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
OFFICE	S44-1	100	SUPPLY DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
OFFICE	S44A-1	100	SUPPLY DIFFUSER	NEW	PRICE SMCD OR EQUAL	24"x24"	PROVIDE CEILING TILE MOUNTING, AND BAKED ENAMEL FINISH.
OPERATIONS	S45-1	180	SUPPLY DIFFUSER	EXISTING			
	S45-2	180	SUPPLY DIFFUSER	EXISTING			
	S45-3	180	SUPPLY DIFFUSER	EXISTING			
	S45-4	250	SUPPLY DIFFUSER	EXISTING			
	S45-5	250	SUPPLY DIFFUSER	EXISTING			
	R45-1		RETURN DIFFUSER	EXISTING			RELOCATE EXISTING TERMINAL.
	R45-2		RETURN DIFFUSER	EXISTING			

NOTE:

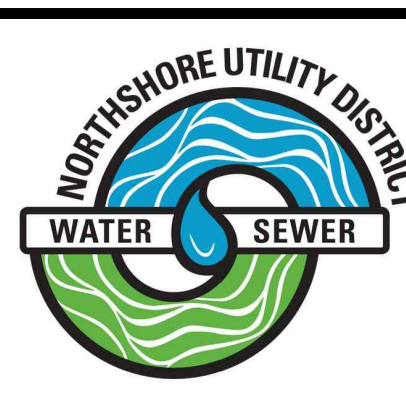
- GRILLE/DIFFUSER SCHEDULE ONLY INCLUDES HVAC TERMINALS WHICH ARE NEW OR CONNECTED TO A SYSTEM BEING ADJUSTED. SEE PLANS FOR ALL EXISTING AND RELOCATED GRILLES/DIFFUSERS.
- GRILLES/DIFFUSERS WITH A LISTED DESIGN AIRFLOW REQUIRE TESTING AND BALANCING.



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CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS

HVAC EQUIPMENT SCHEDULES

SHEET

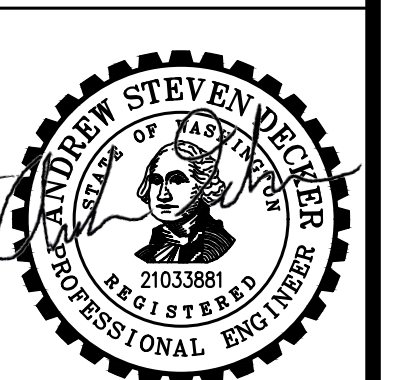
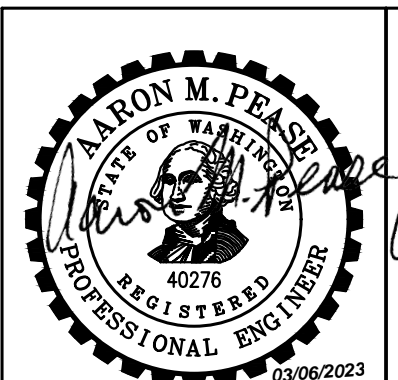
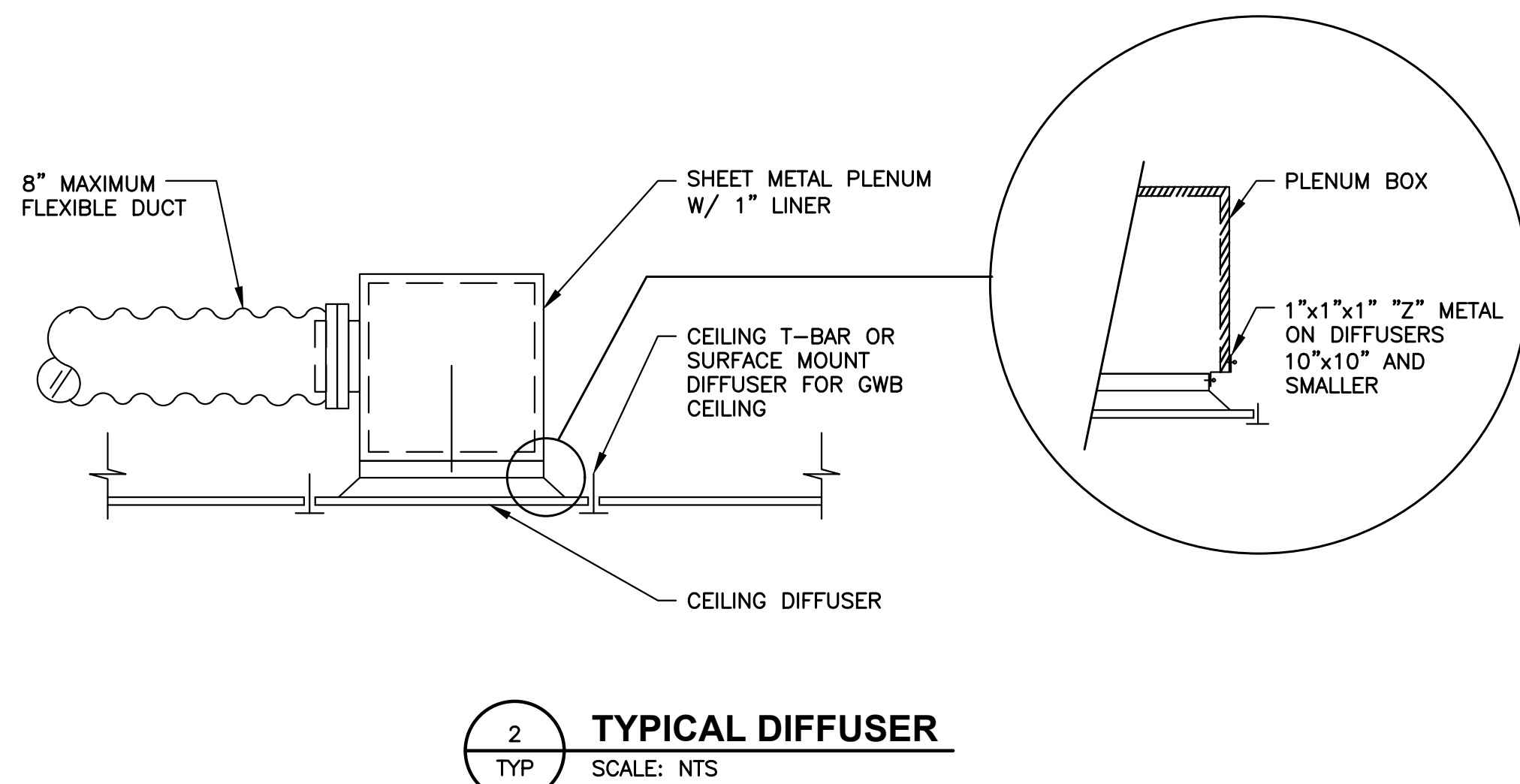
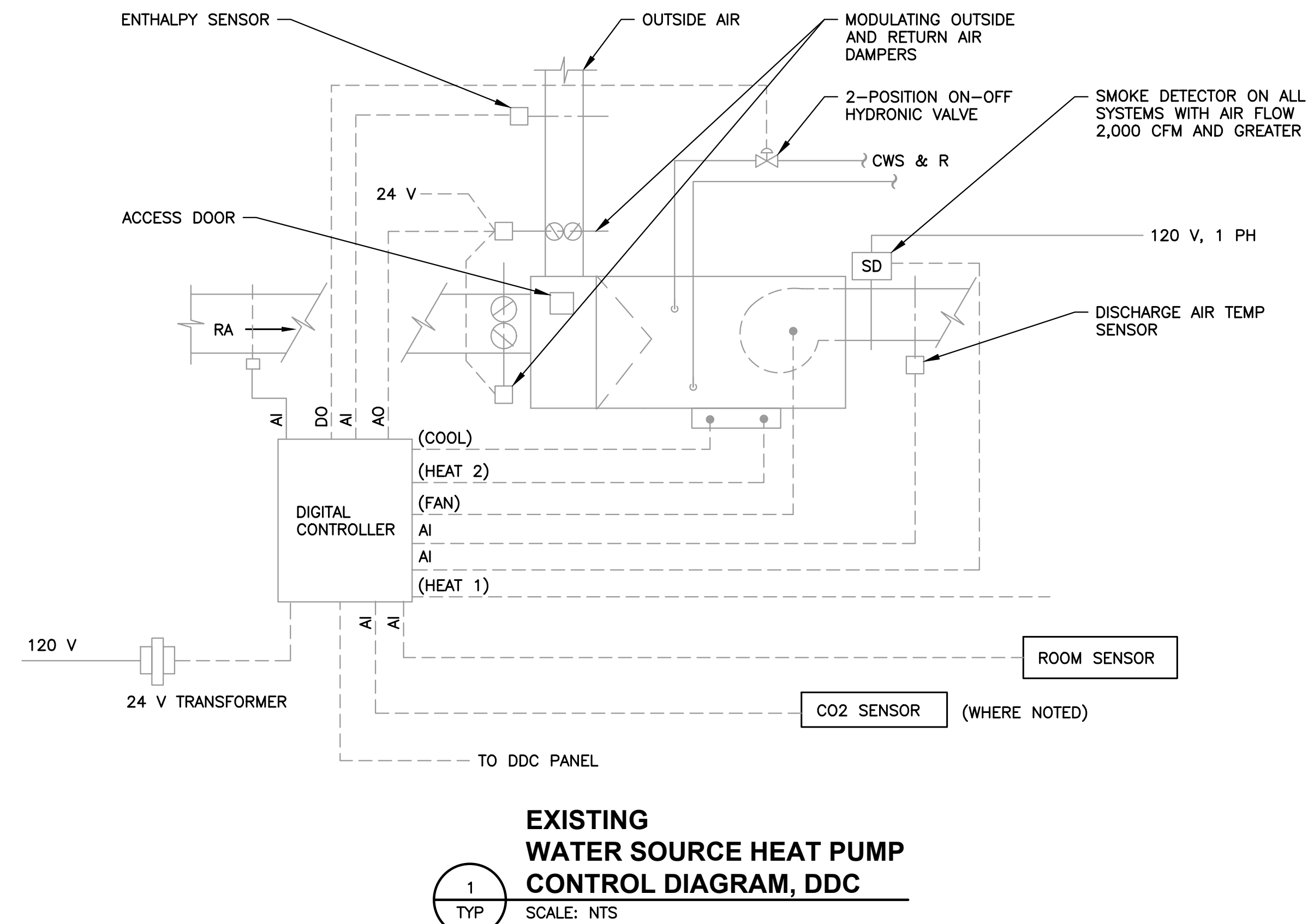
H-2
OF 6

GRILLE/DIFFUSER SCHEDULE (CONTINUED)							
ROOM NAME	DIFFUSER/GRILLE NO.	DESIGN AIRFLOW (CFM)	TYPE	VINTAGE	MANUFACTURER & MODEL NO.	SIZE (WxL)	REMARKS
WOMEN'S	S46-1	150	SUPPLY DIFFUSER	EXISTING			CHECK AND REBALANCE
	E46-1	175	EXHAUST GRILLE	EXISTING			CHECK AND REBALANCE
WOMEN'S SHOWERS	E47-1	150	EXHAUST GRILLE	EXISTING			CHECK AND REBALANCE
WOMEN'S LOCKER	S48-1	125	SUPPLY DIFFUSER	EXISTING			CHECK AND REBALANCE
MEN'S	S49-1	150	SUPPLY DIFFUSER	EXISTING			CHECK AND REBALANCE
	E49-1	200	EXHAUST GRILLE	EXISTING			CHECK AND REBALANCE
MEN'S LOCKER	S50-1	100	SUPPLY DIFFUSER	EXISTING			CHECK AND REBALANCE
	E50-1	150	EXHAUST GRILLE	EXISTING			CHECK AND REBALANCE
MEN'S SHOWERS	S51-1	100	SUPPLY DIFFUSER	EXISTING			CHECK AND REBALANCE
	E51-1	150	EXHAUST GRILLE	EXISTING			CHECK AND REBALANCE
ELECTRICAL	S52-1	50	SUPPLY DIFFUSER	EXISTING			CHECK AND REBALANCE
	E52-1	75	EXHAUST GRILLE	EXISTING			CHECK AND REBALANCE
WOMEN	S53-1	100	SUPPLY DIFFUSER	EXISTING			CHECK AND REBALANCE
	E53-1	150	EXHAUST GRILLE	EXISTING			CHECK AND REBALANCE
MEN	S54-1	100	SUPPLY DIFFUSER	EXISTING			CHECK AND REBALANCE
	E54-1	150	EXHAUST GRILLE	EXISTING			CHECK AND REBALANCE
JANITOR	S55-1	50	SUPPLY DIFFUSER	EXISTING			CHECK AND REBALANCE
FOYER	S56-1	175	SUPPLY DIFFUSER	EXISTING			CHECK AND REBALANCE
OFFICE	S57-1	175	SUPPLY DIFFUSER	EXISTING			CHECK AND REBALANCE
HALL	S58-1	100	SUPPLY DIFFUSER	EXISTING			CHECK AND REBALANCE

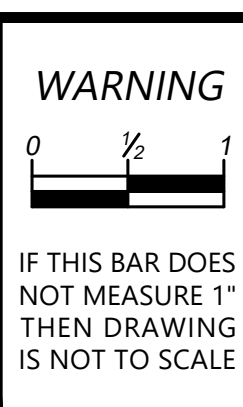
CONTROL SCHEDULE									
BUILDING	ROOM NAME	UNIT NO.	TYPE	CONTROLLED EQUIPMENT	MANUFACTURER & MODEL NO.	HEAT SET POINT	COOL SET POINT	VOLTAGE AND PHASE	REMARKS
BUILDING A	NEW CONFERENCE	C 01	CO2 SENSOR	HP-1	AIRTEST TR9294-L OR EQUAL			18-30 VAC/VDC	

NOTE:

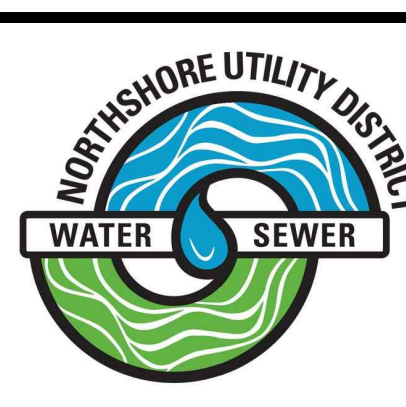
- SUPPLY AND EXHAUST GRILLES/DIFFUSERS S46-1 THROUGH S58-1 ARE CONNECTED TO HP-18 AND ERV-1. THESE SYSTEMS AND TERMINALS SHALL BE TESTED, ADJUSTED, AND BALANCED AS SCHEDULED AND TO MATCH THE MARCH 2011 "TEST, ADJUST, & BALANCE REPORT" BY NEUDORFER ENGINEERS INC.



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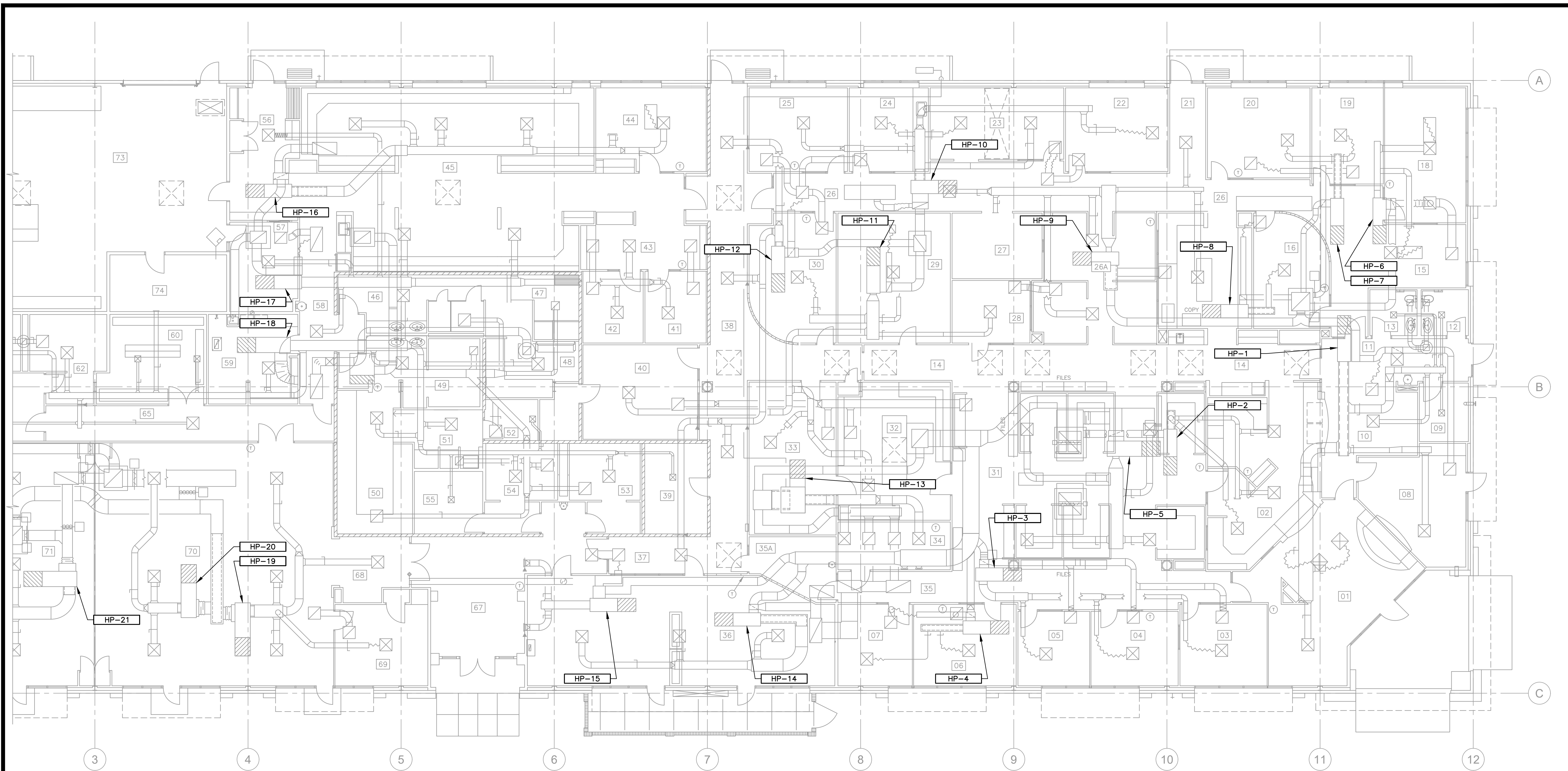
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BUILDING "A" IMPROVEMENTS

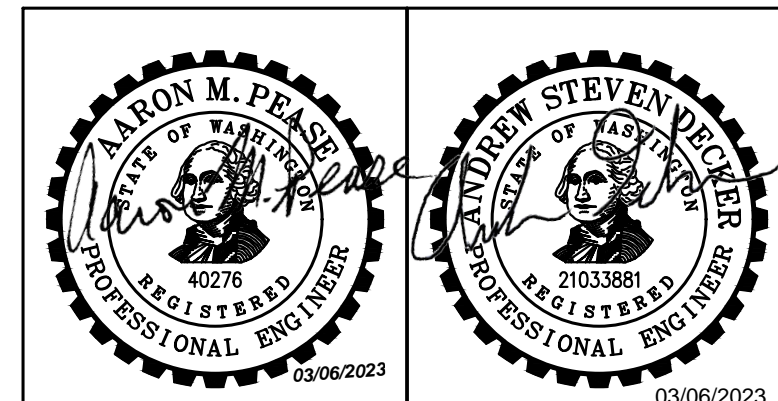
HVAC EQUIPMENT SCHEDULES AND DETAILS

SHEET

H-3
OF 6



**EXISTING
HVAC PLAN**
SCALE: 1/8"=1'-0"

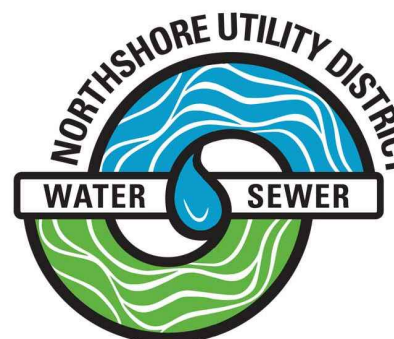


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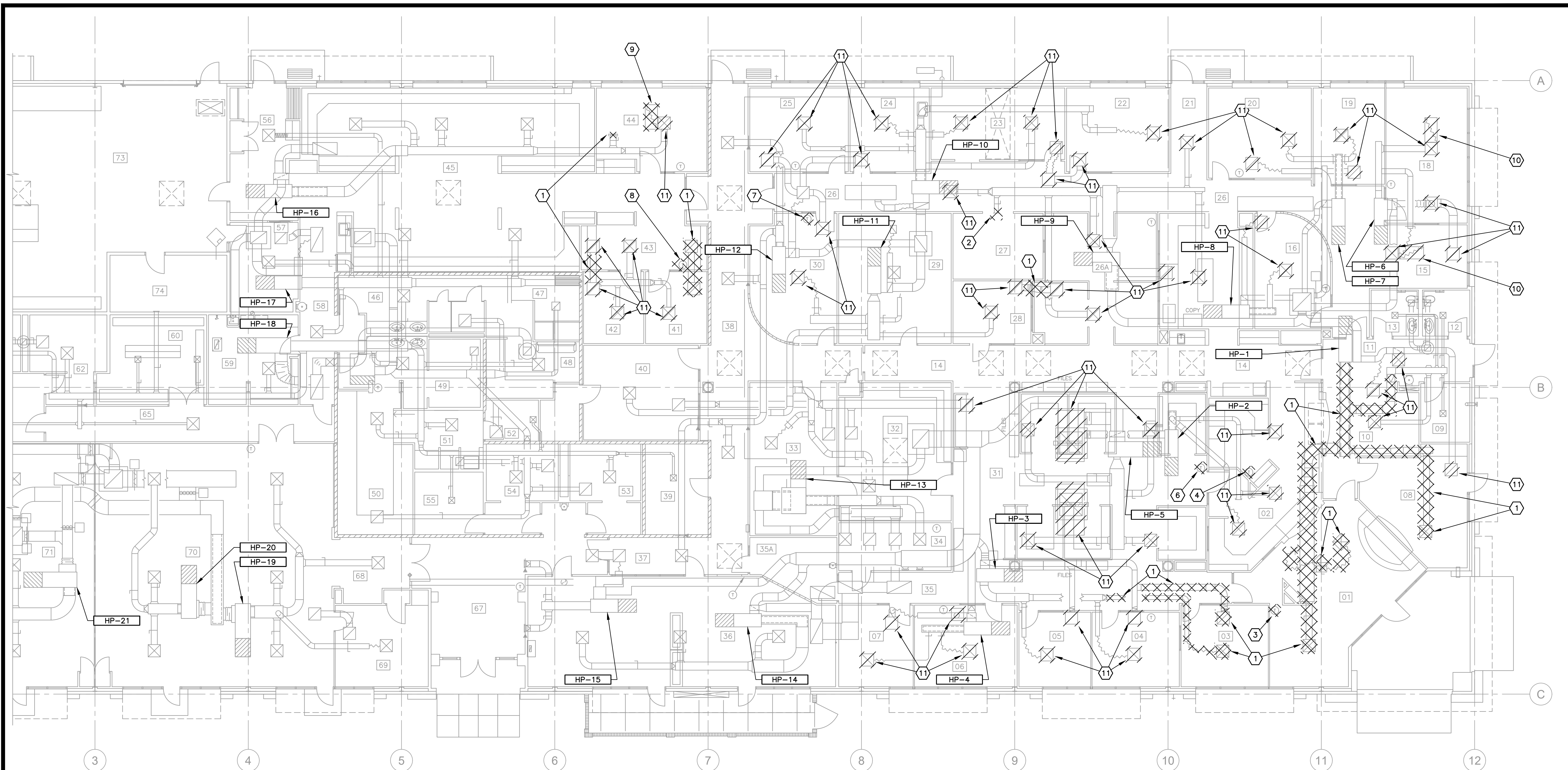
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CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS

EXISTING HVAC PLAN

SHEET

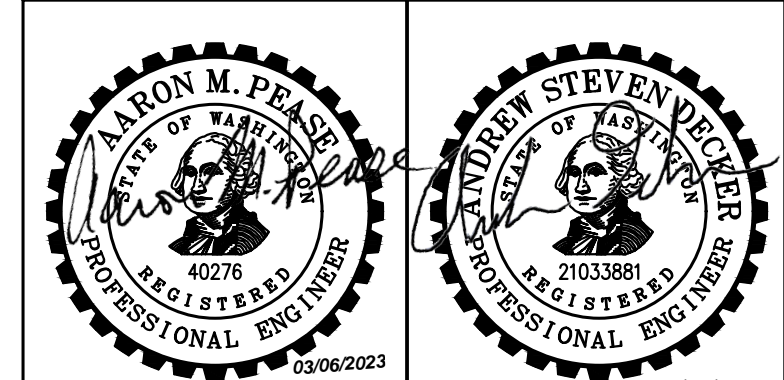
H-4
OF 6



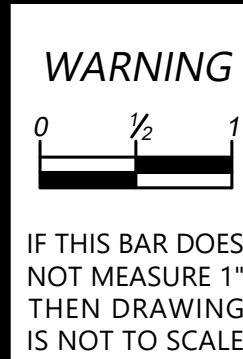
#	NOTES
①	DEMOLISH CEILING TERMINAL AND/OR DUCTWORK
②	DEMOLISH WALL SUPPLY TERMINAL
③	REMOVE THERMOSTAT FOR [HP-1]; RETAIN FOR REINSTALLATION
④	REMOVE THERMOSTAT FOR [HP-2]; RETAIN FOR REINSTALLATION
⑤	REMOVE THERMOSTAT FOR [HP-3]; RETAIN FOR REINSTALLATION

⑥	REMOVE THERMOSTAT AND CO2 SENSOR FOR [HP-5]; RETAIN FOR REINSTALLATION
⑦	REMOVE CO2 SENSOR FOR [HP-11]; RETAIN FOR REINSTALLATION
⑧	REMOVE THERMOSTAT FOR [HP-17]; RETAIN FOR REINSTALLATION
⑨	DEMOLISH RADIANT HEATING PANEL
⑩	REMOVE AND RETAIN RADIANT HEATING PANEL; REINSTALL INTO NEW CEILING
⑪	REMOVE AND RETAIN CEILING TERMINAL; REINSTALL INTO NEW CEILING

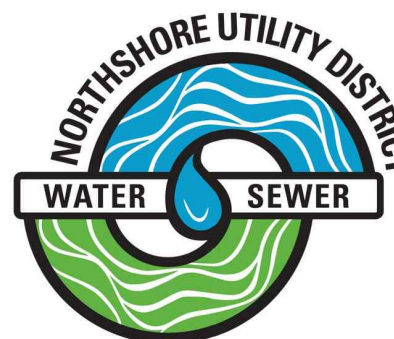
DEMO HVAC PLAN
SCALE: 1/8"=1'-0"



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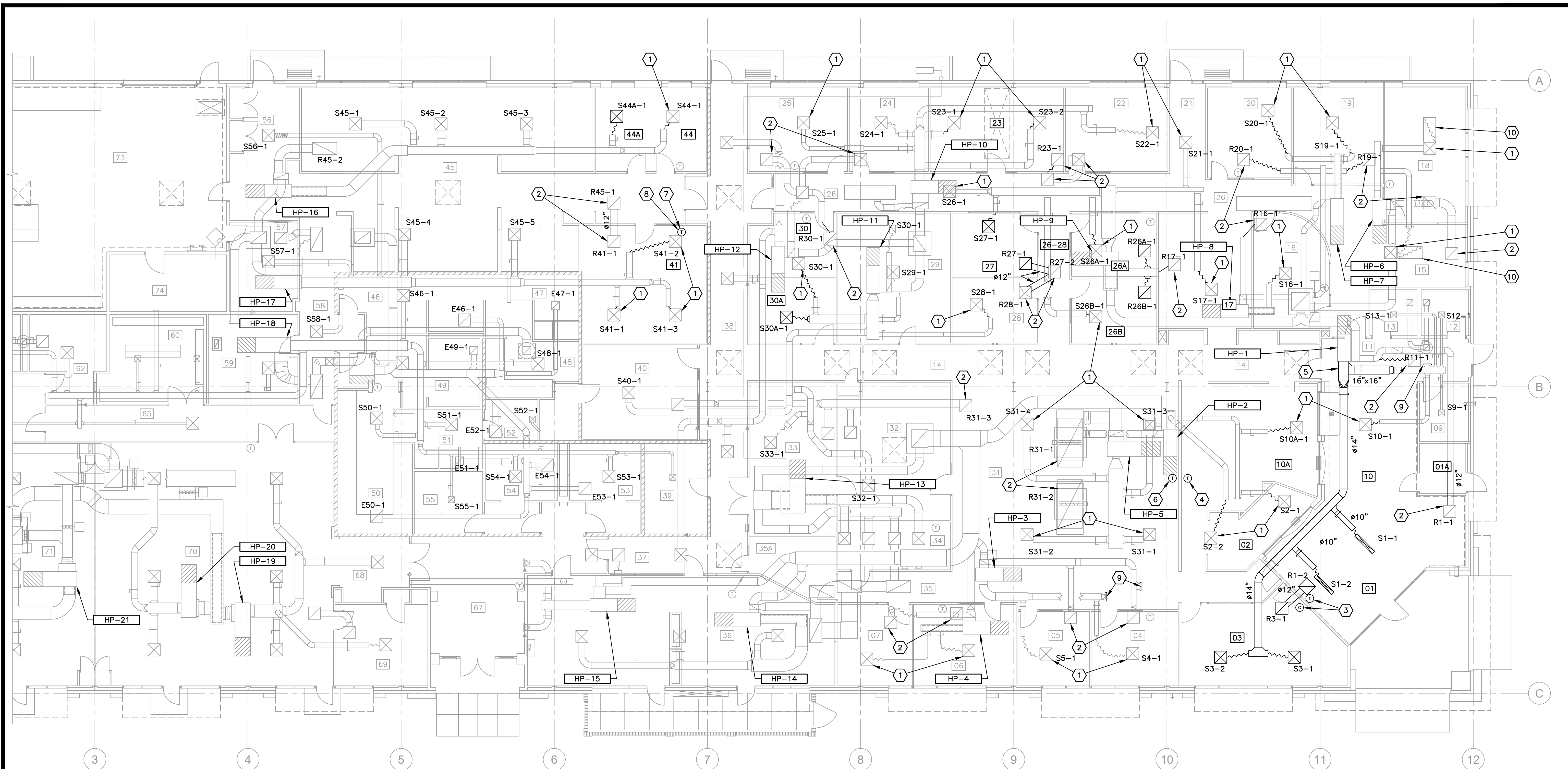
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CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS
HVAC DEMOLITION PLAN

SHEET
H-5
OF 6



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

#	NOTES
①	REINSTALL CEILING SUPPLY TERMINAL
②	REINSTALL CEILING RETURN TERMINAL
③	REINSTALL THERMOSTAT FOR [HP-1]; INSTALL NEW CO2 SENSOR
④	REINSTALL THERMOSTAT FOR [HP-2]
⑤	20"x20" DUCT; FIELD VERIFY HEAT PUMP OUTLET DIMENSIONS

⑥	REINSTALL THERMOSTAT AND CO2 SENSOR FOR [HP-5]
⑦	REINSTALL CO2 SENSOR FROM [HP-11]; RECONFIGURE TO CONTROL [HP-17] OA
⑧	REINSTALL THERMOSTAT FOR [HP-17]
⑨	CAP AND SEAL DUCT BRANCH
⑩	REINSTALL RADIANT HEATING PANEL

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CONSULTING ENGINEERS

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WATER SEWER

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CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS

HVAC PROPOSED PLAN

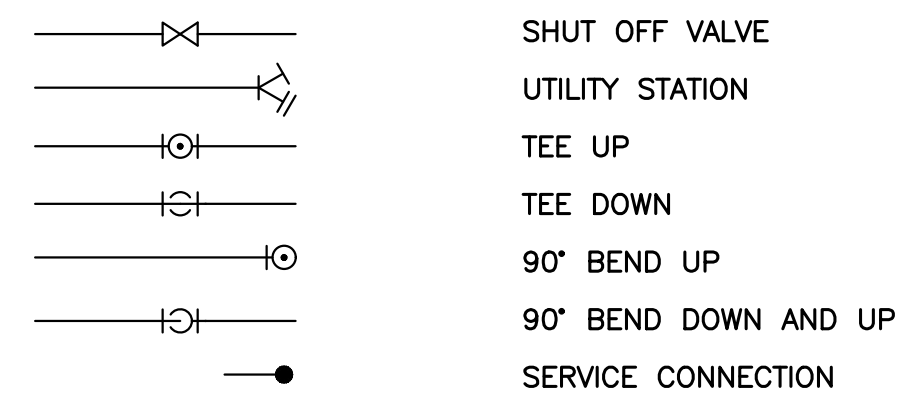
WATER PIPING NOTES

1. ALL PLUMBING WORK SHALL CONFORM WITH THE SPECIFICATIONS AND WITH THE CURRENT EDITION OF THE UNIFORM PLUMBING CODE OR SHALL BE APPROVED BY THE LOCAL BUILDING OFFICIAL.
2. INSTALL EXPOSED SHUT OFF VALVE TO ISOLATE ALL PLUMBING FIXTURES.
3. PROVIDE WATER HAMMER ARRESTORS (MINIMUM 12" AIR CHAMBER) AT ALL SINKS AND ALL INSTANT SHUT-OFF VALVES.
4. USE WALL AND CEILING FLANGES AT ALL PENETRATIONS.

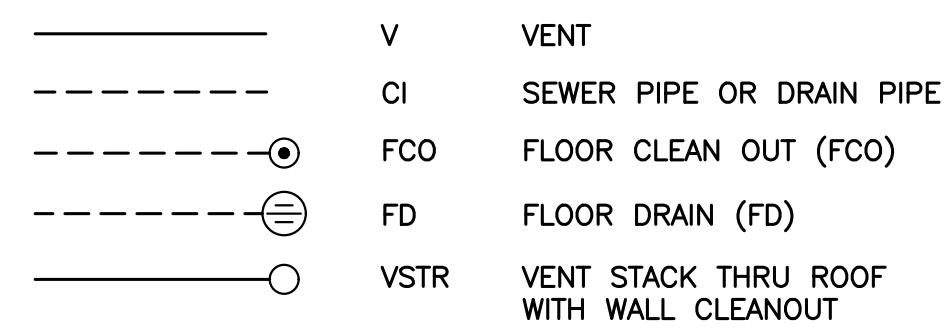
DRAINAGE PIPING NOTES

1. ALL DRAINAGE WORK SHALL CONFORM WITH THE SPECIFICATIONS AND WITH THE CURRENT EDITION OF THE UNIFORM PLUMBING CODE OR SHALL BE APPROVED BY THE LOCAL BUILDING OFFICIAL.
2. ALL BURIED PROCESS DRAINS UNDER SLAB SHALL BE MECHANICAL JOINT DUCTILE IRON PIPE. ALL BURIED DRAINS SERVING FLOOR DRAINS AND OTHER PLUMBING FIXTURES UNDER SLAB SHALL BE CAST IRON SOIL PIPE. MINIMUM SLOPE AT 1/4"/FT. FOR PIPES < 3", AND AT 1/8"/FT. FOR PIPES ≥ 3".
3. ALL BENDS UNDER FLOOR TO BE 45° FITTINGS MAXIMUM.
4. FOR DOWNSPOUTS AND ROOF DRAINS, COORDINATE WITH ARCHITECTURAL SHEETS.

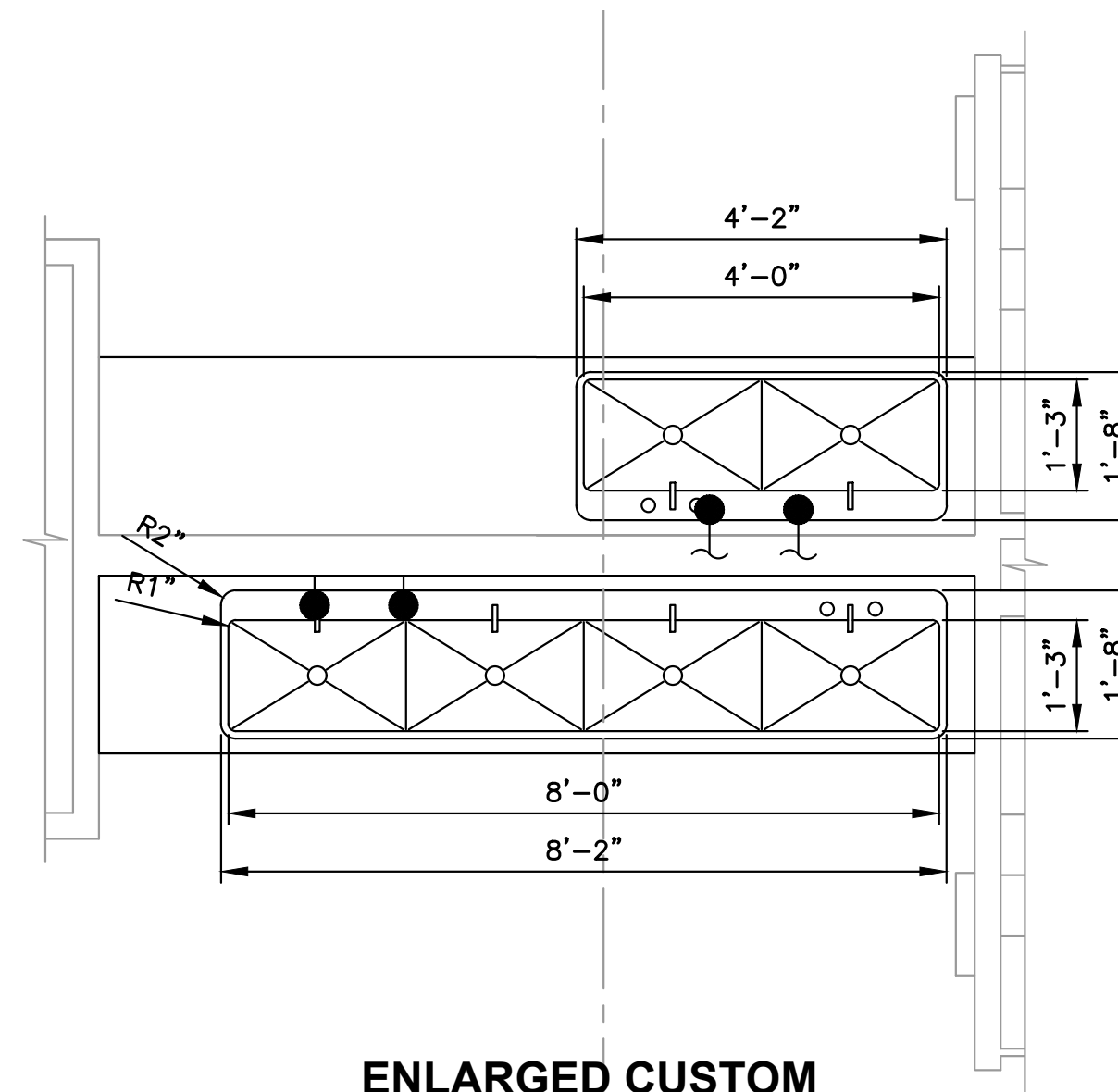
PLUMBING SYMBOLS & ABBREVIATIONS



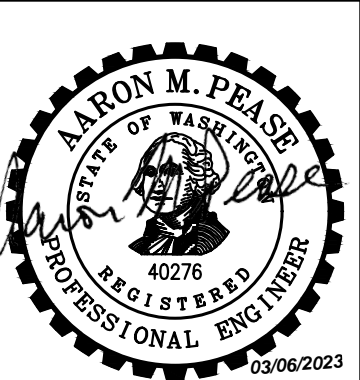
DRAINAGE PIPING LEGEND



NOTE: FOR ADDITIONAL ABBREVIATIONS & SYMBOLS SEE CORRESPONDING ELECTRICAL, STRUCTURAL, ARCHITECTURAL, & MECHANICAL SHEETS.



ENLARGED CUSTOM STAINLESS STEEL TROUGH SINK PLAN
 SCALE: 1/2"=1'-0"

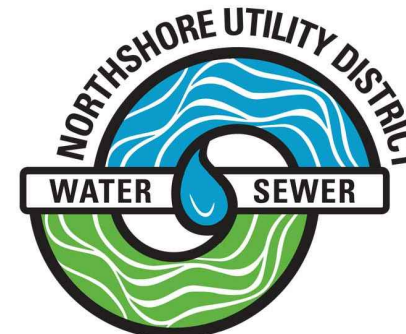


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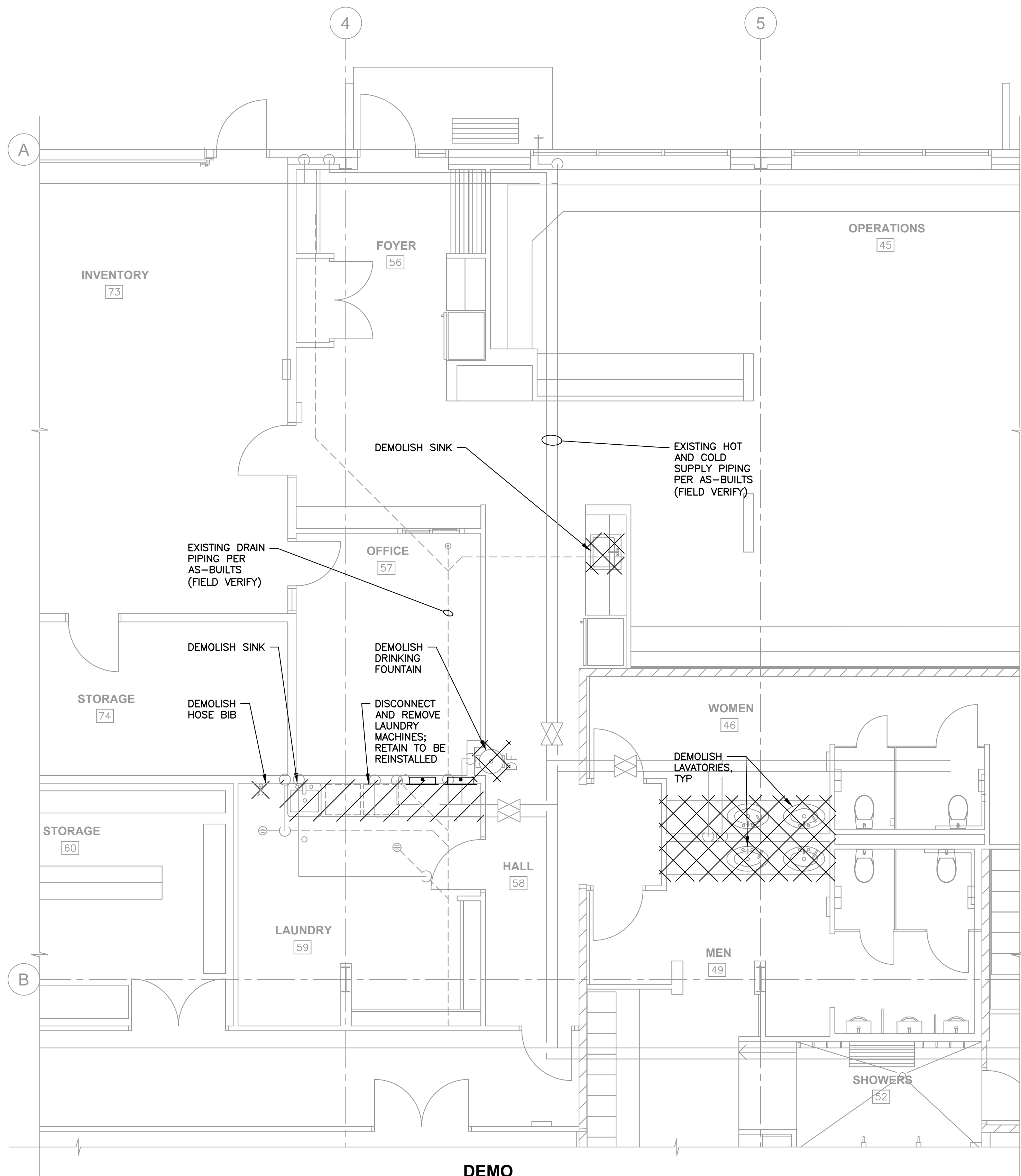


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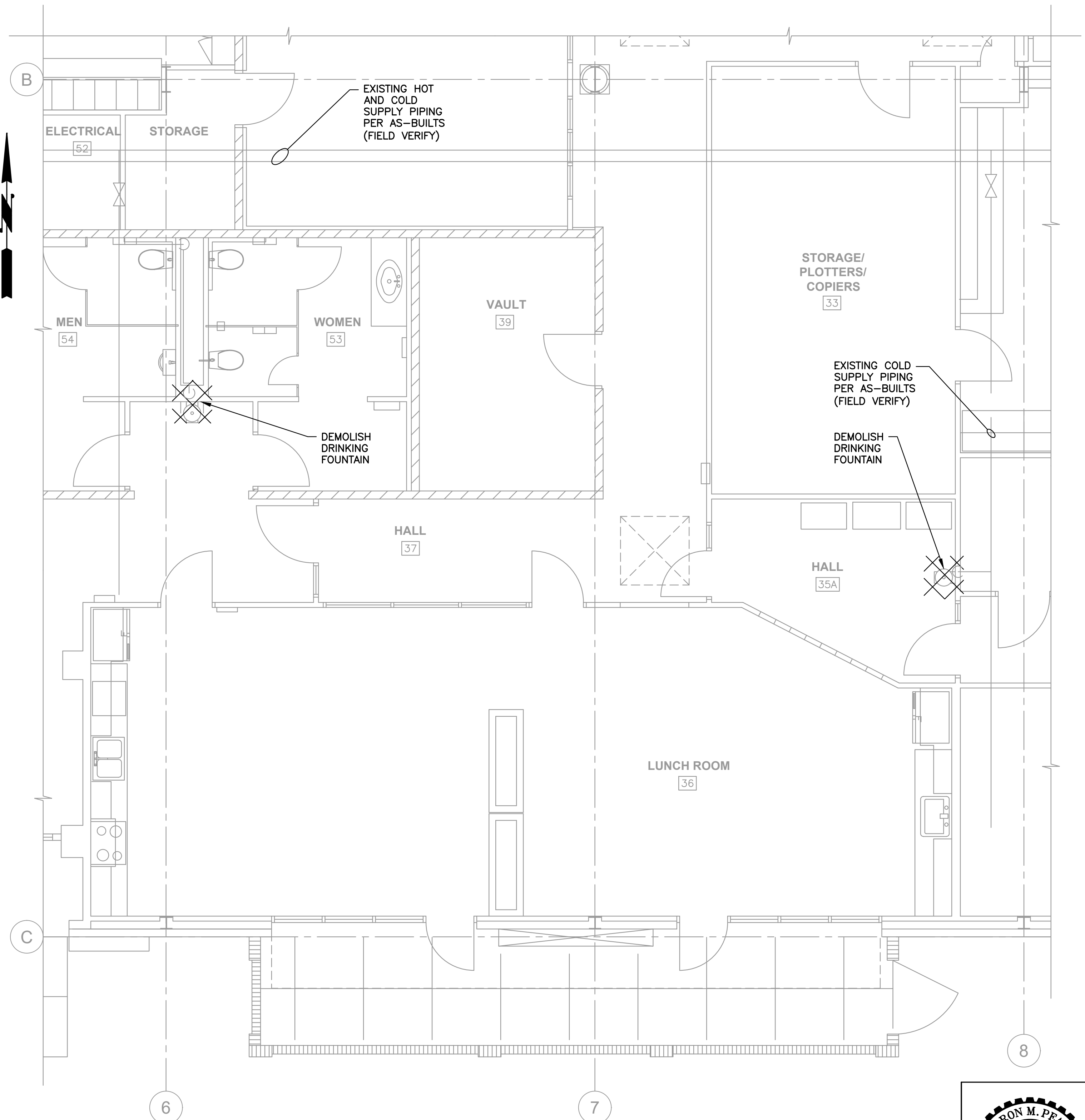
CONTRACT 2023-01
 BUILDING "A" IMPROVEMENTS
PLUMBING NOTES AND DETAILS

SHEET

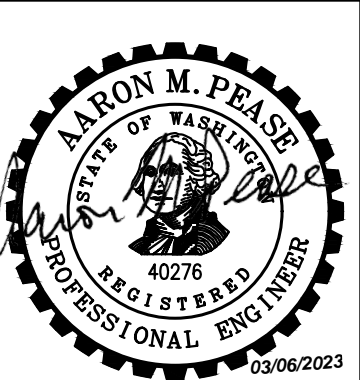
P-1
 OF 5



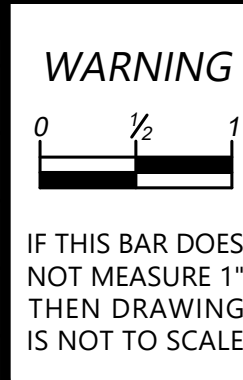
DEMO PLUMBING PLAN
SCALE: 1/4"=1'-0"



DEMO PLUMBING PLAN
SCALE: 1/4"=1'-0"



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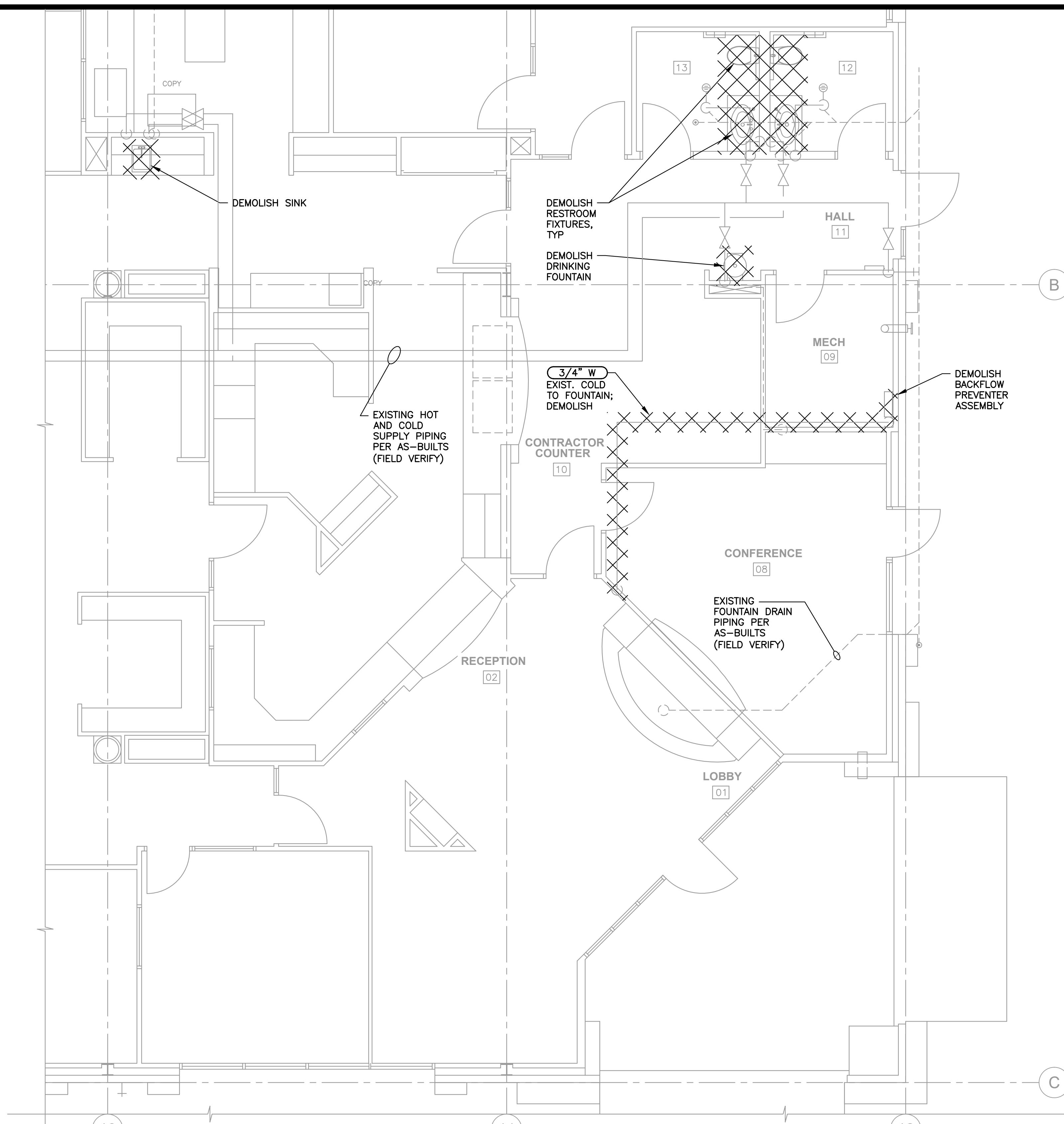
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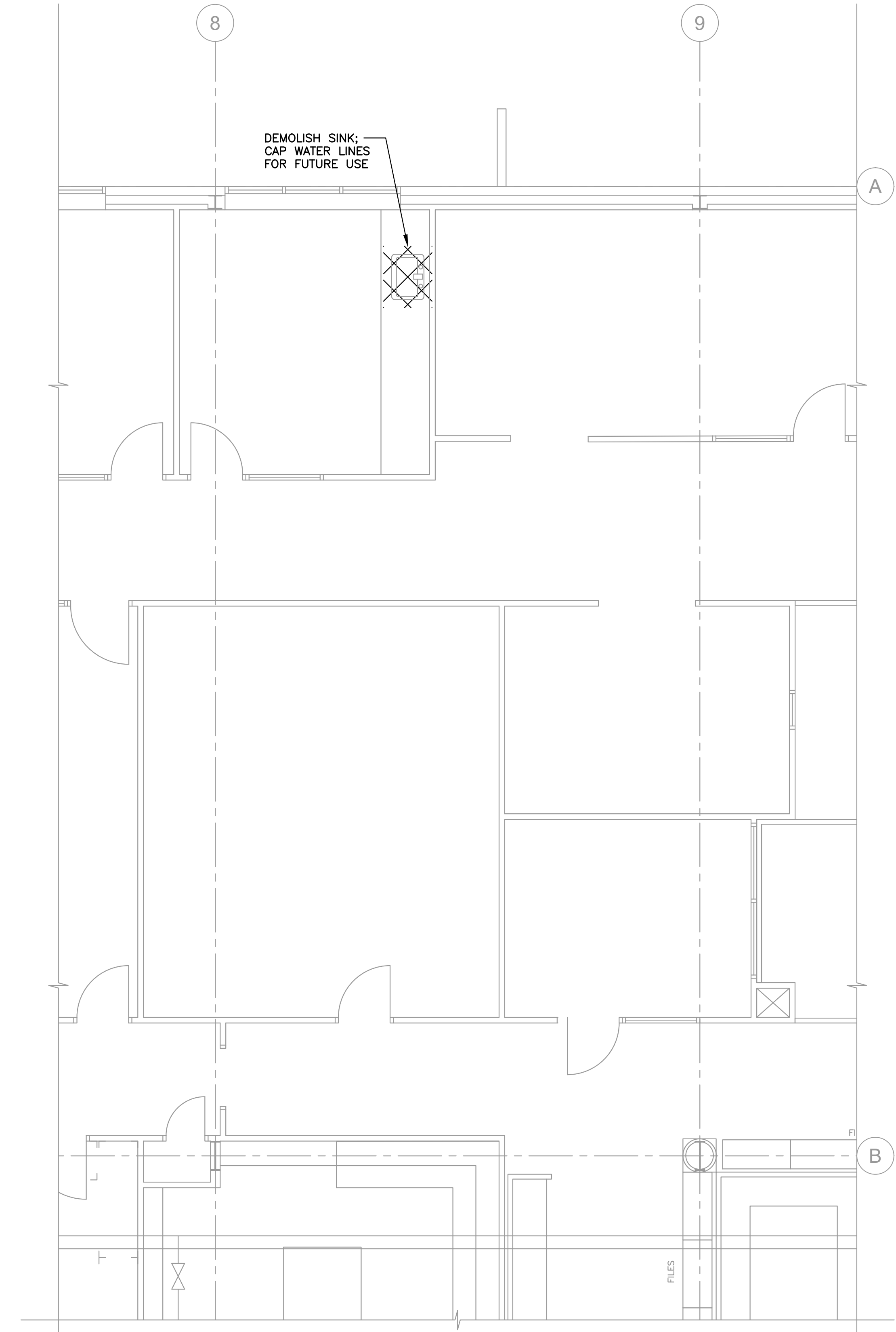
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 BUILDING "A" IMPROVEMENTS
PLUMBING DEMOLITION PLAN 1

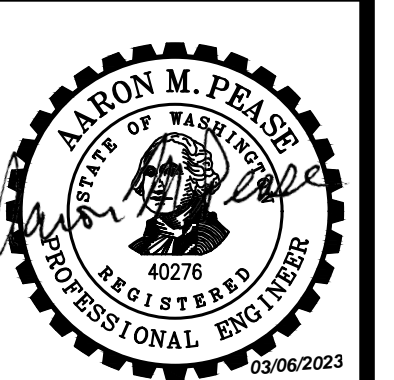
SHEET
 P-2
 OF 5



DEMO PLUMBING PLAN
SCALE: 1/4"=1'-0"



DEMO PLUMBING PLAN
SCALE: 1/4"=1'-0"



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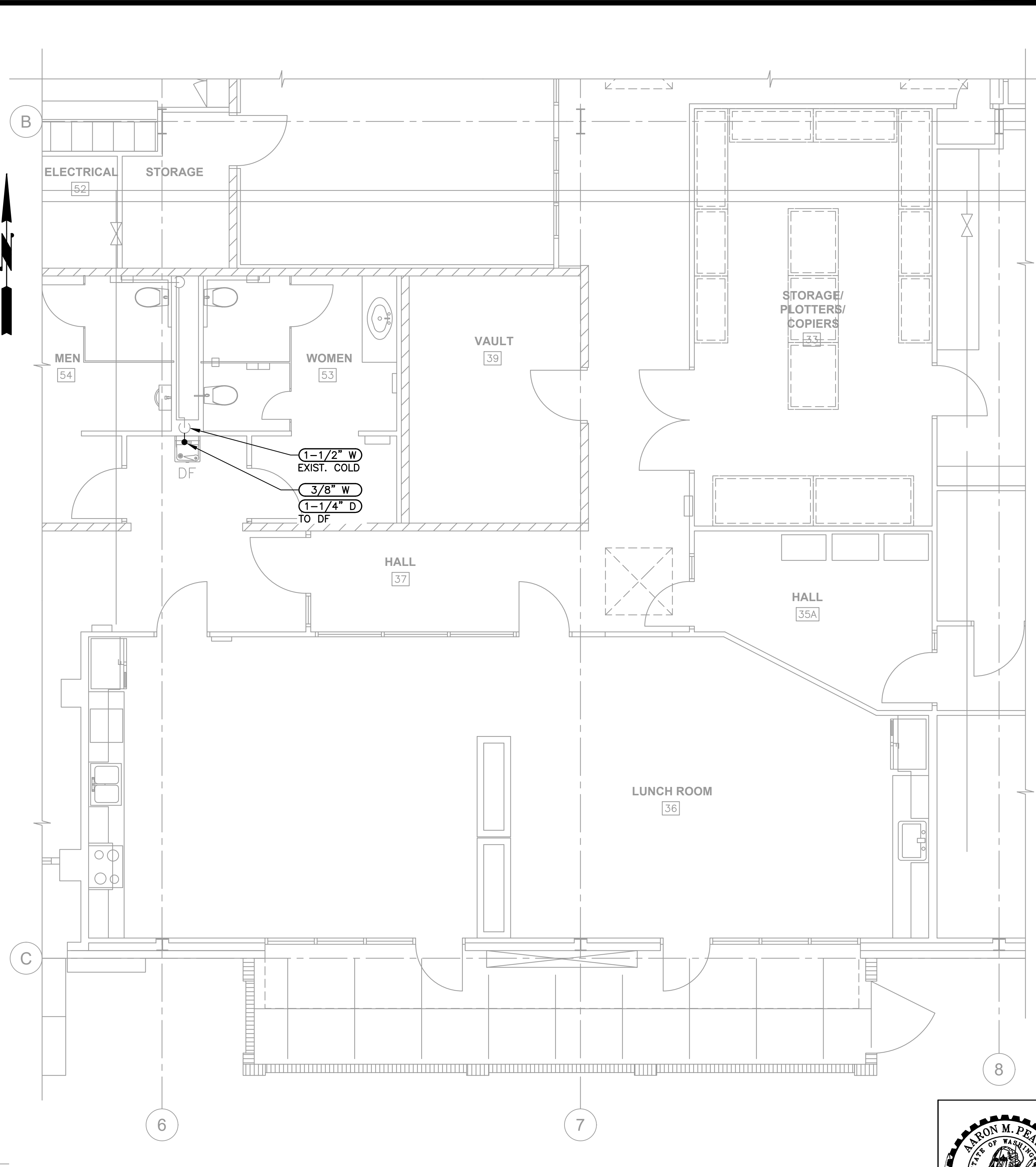
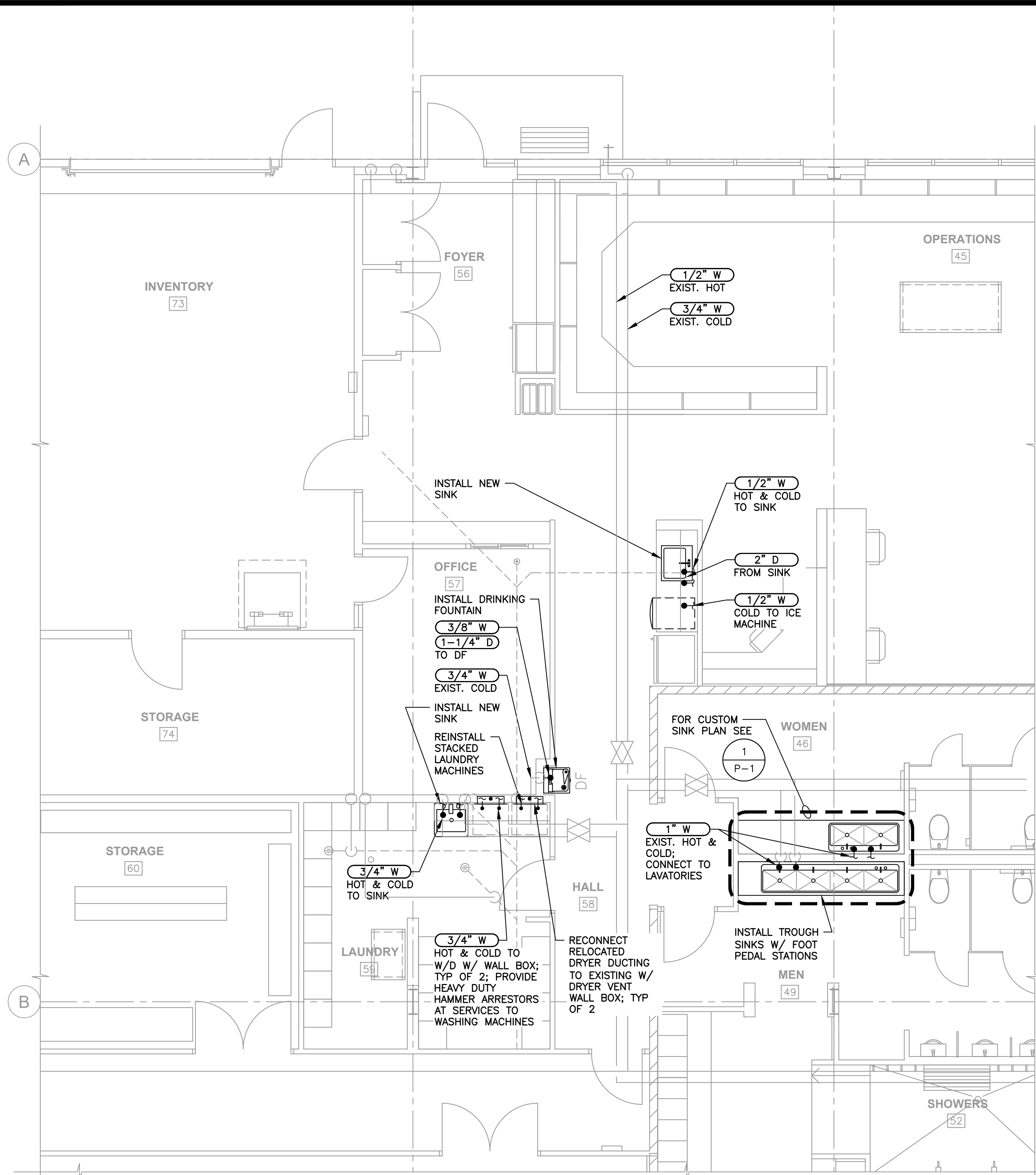
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CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS

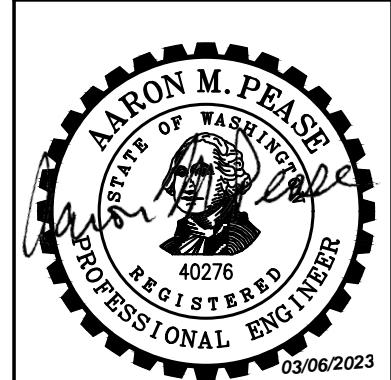
PLUMBING DEMOLITION PLAN 2



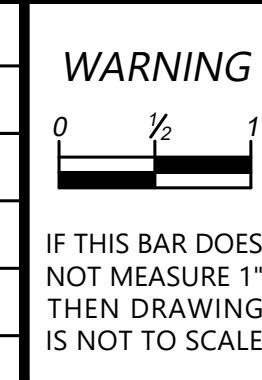
NOTE:
 1. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY JOINTS, COUPLINGS, UNIONS, BUSHINGS, ETC. REQUIRED TO MAKE CONNECTIONS TO EXISTING SUPPLY, DRAIN AND VENT LINES.

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

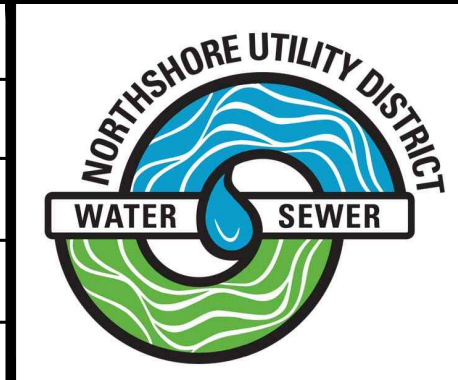
PLUMBING PLAN
 SCALE: 1/4"=1'-0"



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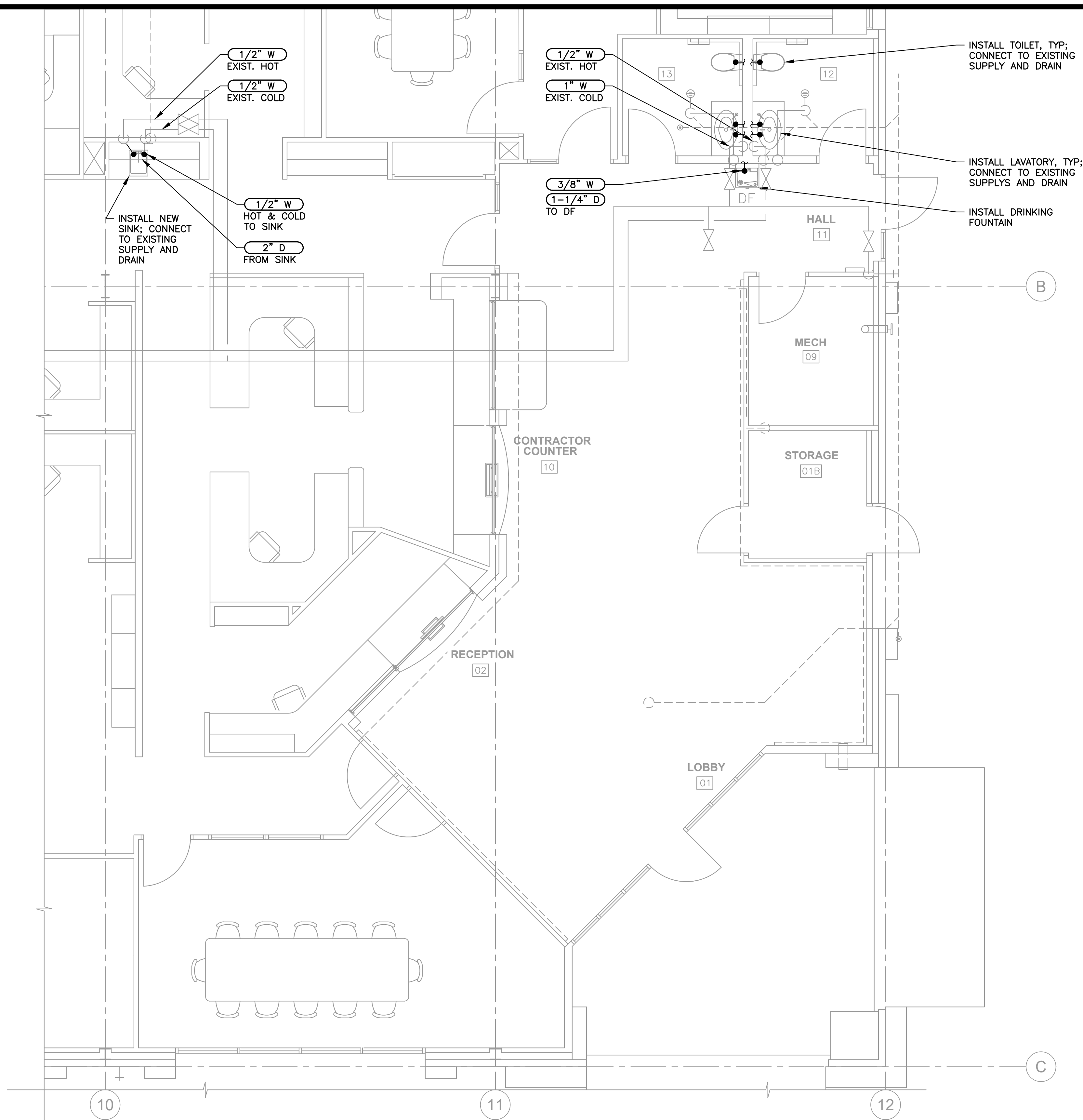
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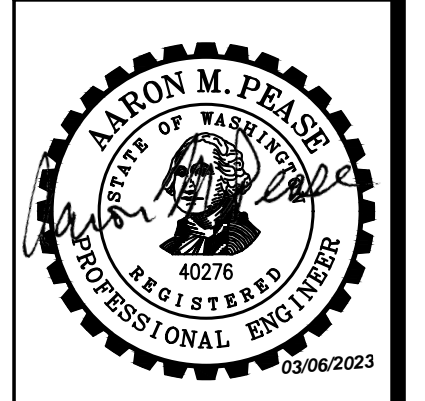
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 BUILDING "A" IMPROVEMENTS
PLUMBING PROPOSED PLAN 1

SHEET
 P-4
 OF 5



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

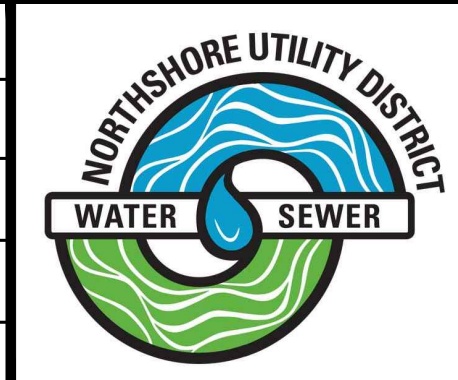


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BUILDING "A" IMPROVEMENTS
PLUMBING PROPOSED PLAN 2

SHEET
P-5
OF 5

GENERAL STRUCTURAL NOTES

GENERAL

THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY. USE DETAIL MARKED "TYPICAL" WHEREVER APPLICABLE. CHANGES, OMISSIONS OR SUBSTITUTIONS ARE NOT PERMITTED WITHOUT WRITTEN APPROVAL OF THE ENGINEER. REFER TO THE SPECIFICATIONS FOR FURTHER REQUIREMENTS. DO NOT SCALE THE DRAWINGS.

ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2018 EDITION OF THE INTERNATIONAL BUILDING CODE.

THE DESIGN, ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE ENGINEER OF RECORD. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE PRIOR TO ITS COMPLETION. THE CONTRACTOR SHALL PROVIDE THE NECESSARY BRACING TO PROVIDE STABILITY PRIOR TO THE COMPLETION OF THE STRUCTURE.

THE GENERAL NOTES APPLY TO ALL STRUCTURES UNLESS NOTED OTHERWISE (U.N.O.). LOCATION AND SIZE OF ANCHOR BOLTS FOR SPECIFIC EQUIPMENT SHALL BE SPECIFIED BY THE VENDOR. CONTRACTOR SHALL COORDINATE LOCATIONS OF STRUCTURAL OPENINGS, PENETRATIONS AND EMBEDDED ITEMS WITH THE MECHANICAL, ARCHITECTURAL, ELECTRICAL, PLUMBING AND VENTILATION SECTIONS OF THE DRAWINGS AND WITH SUPPLIERS AND SUBCONTRACTORS AS MAY BE REQUIRED.

SPECIAL INSPECTION & TESTING

SPECIAL INSPECTIONS SHALL MEET THE REQUIREMENTS OF IBC CHAPTER 17. OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH APPROVED DRAWINGS AND SPECIFICATIONS.

FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND ENGINEER. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION; THEN, IF NOT CORRECTED, TO THE BUILDING OFFICIAL AND ENGINEER. SUBMIT A FINAL REPORT STATING THE WORK WAS IN CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF IBC.

SPECIAL INSPECTION REQUIRED:
STEEL: IN ACCORDANCE WITH SECTION 1705.2 AND TABLE 1705.2.3

SHOP DRAWINGS

SHOP DRAWINGS, WHERE REQUIRED, SHALL BE CHECKED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING FOR ENGINEER REVIEW. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW OF DESIGN INTENT, PRIOR TO FABRICATION. GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFICATION AND COORDINATION OF DIMENSIONS AND DETAILS FOR EACH SUBCONTRACTOR.

DESIGN LOADS

DESIGN SNOW LOAD, Ps..... 25 PSF

ROOF LIVE LOAD, Lr..... 20 PSF

FLOOR LIVE LOAD, Lf..... 50 PSF

BUILDING A EARTHQUAKE DESIGN DATA IN ACCORDANCE WITH ASCE 41-17:

BUILDING PERFORMANCE LEVEL..... LIFE SAFETY
SEISMIC HAZARD LEVEL..... BSE-1N
SITE CLASS..... E
SPECTRAL RESPONSE COEFFICIENT

Sxs.....0.756 g
Sxi.....0.782 g

SEISMIC DESIGN CATEGORY..... E
BASIC SEISMIC-FORCE-RESISTING SYSTEM(S)..... TILT-UP PRECAST CONCRETE PANEL SYSTEM
FOR SEISMIC DESIGN PARAMETERS FOR PIPE SUPPORTS, SEE PLAN.

STRUCTURAL STEEL AND MISCELLANEOUS METALS

"W" SHAPES: ASTM A992, Fy=50 KSI.
CHANNELS, ANGLES, PLATES, AND BARS: ASTM A36, Fy=36 KSI.
PIPE: ASTM A53 OR A501, Fy=35 KSI MINIMUM.
TUBING: ASTM A500, GRADE B, Fy=46 KSI.

ALL BOLTS FOR CONNECTIONS IN SUBMERGED CONDITION SHALL BE: ASTM F593C OR F593D STAINLESS STEEL (SS) BOLTS. ALL OTHERS SHALL BE GALVANIZED ASTM A325-N BOLTS HIGH STRENGTH BOLTS (H.S.B.), U.N.O. AS ASTM A307 MACHINE BOLTS (M.B.). WHERE HIGH STRENGTH BOLTS ARE USED, THEY SHALL BE INSTALLED WITH LOAD INDICATOR DEVICES (LOAD INDICATOR WASHERS OR SNAP-OFF HEADS).
ADHESIVE ANCHORS: HILTI HIT-RE 500 V3 OR APPROVED EQUAL, U.N.O. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

HEADED ANCHOR STUDS (H.A.S.): ASTM A108 TYPE B, Fy=50 KSI, END WELDED PER MANUFACTURER'S RECOMMENDATIONS.

ALL ANCHOR BOLTS AND THREADED RODS: ASTM F1554 GRADE 55, GALVANIZED, U.N.O. ALL ANCHOR BOLTS MUST BE ACCURATELY PLACED IN THEIR FINAL LOCATION PRIOR TO POURING CONCRETE, "WET STICKING" OF ANCHOR BOLTS IS NOT ALLOWED.

WELDING ELECTRODES OR WIRES: AWS A5.1 OR A5.5, E70XX; AWS A5.17, E70S-X; AWS A5.20, E7XT-X.
FOR ALL SHOP WELDS AND FIELD WELDS OF ALL LATERAL RESISTING ELEMENTS, ELECTRODES SHALL BE E70 WITH A MINIMUM SPECIFIED CVN OF 20 FT-LBS AT -20 DEGREES FAHRENHEIT. ALL WELDS SHALL BE 3/16" MINIMUM U.N.O.

ERECTION AND FABRICATION IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS."
WELDING SHALL CONFORM TO AWS "STRUCTURAL WELDING CODE - STEEL". ALL WELDING SHALL BE PERFORMED BY AWS/WABO CERTIFIED WELDERS.

ALL STEEL SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123.

FABRICATION SHALL BE PERFORMED IN AN AISC ACCREDITED SHOP.

LIGHT GAGE STRUCTURAL STEEL

BRIDGING, ACCESSORIES AND 18 AND 20 GAGE STUDS AND TRACK: Fy=33 KSI CONFORMING TO ASTM A1003 STRUCTURAL GRADE, TYPE H.

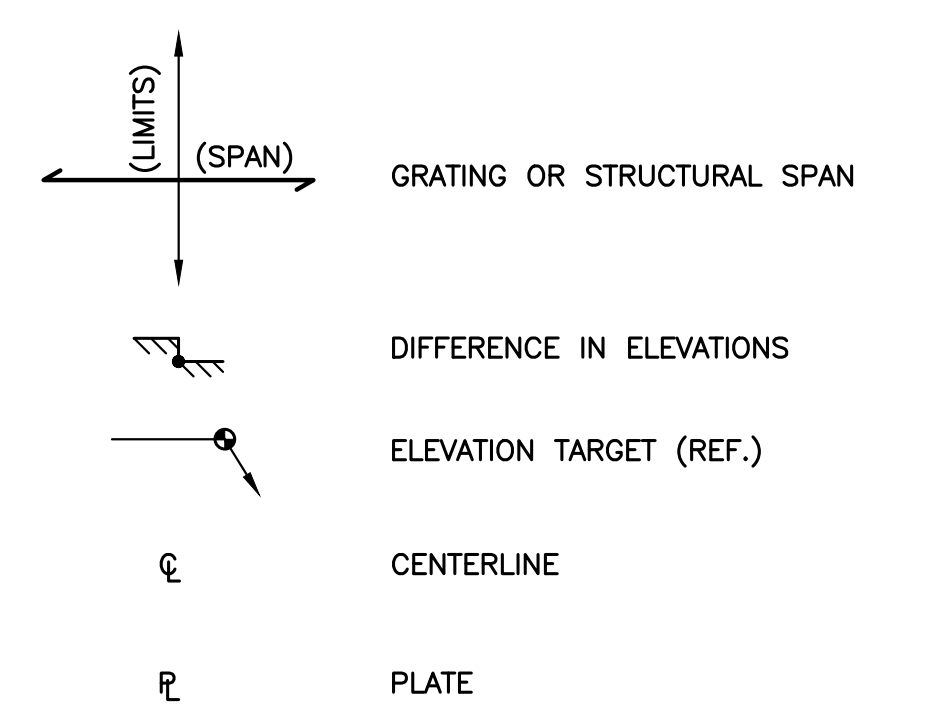
14 AND 16 GAGE STUDS AND TRACK: Fy=50 KSI CONFORMING TO ASTM A1003 STRUCTURAL GRADE, TYPE H.
14, 16 & 18 GAGE PUNCHED JOISTS: Fy=40 KSI CONFORMING TO ASTM A1003 STRUCTURAL GRADE, TYPE H.
16 GAGE AND HEAVIER UNPUNCHED JOISTS: Fy=50 KSI CONFORMING TO ASTM A1003 STRUCTURAL GRADE, TYPE H.

ALL STRUCTURAL PROPERTIES COMPUTED IN ACCORDANCE WITH AISI "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS." DESIGNATION ON THE DRAWINGS ARE ACCORDING TO SCAFFO SYSTEMS. APPROVED EQUIVALENT PRODUCTS MAY BE PERMITTED UPON REVIEW BY THE ENGINEER. INSTALL MEMBERS IN ACCORDANCE WITH INDUSTRY STANDARDS. UNLESS OTHERWISE NOTED ON THESE DRAWINGS, STUD WALL TRACK TO BE OF THE SAME MATERIAL AND GAGE AS STUDS, U.N.O. PROVIDE HORIZONTAL BRIDGING AT 5'-0" O.C. MAXIMUM AT NONBEARING WALLS. SUBMIT SHOP DRAWINGS SHOWING STUD AND JOIST LAYOUT, DIMENSIONS, SIZES, BRIDGING AND REQUIRED CONNECTION DETAILS FOR REVIEW BY THE ENGINEER. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS EXPERIENCED IN THIS TYPE OF CONSTRUCTION.

SUPPLEMENTAL STRUCTURAL ABBREVIATIONS:

ABV	ABOVE	FTG	FOOTING	STIRR	STIRRUP
AFF	ABOVE FINISH FLOOR	GA	GAUGE	STRUC	STRUCTURE(AL)
AL	ALUMINUM	GB	GRADE BEAM	SYM	SYMMETRICAL
APPRX	APPROXIMATE	HAS	HEADER ANCHOR STUDS	T	TOP
ARCH	ARCHITECTURAL	HDR	HEADER	TO	TOP OF
@	AT	HGR	HANGER	TOS	TOP OF SLAB
BEL	BELOW	HSB	HIGH STRENGTH BOLT (A325 UNO)	TRANS	TRANSVERSE
BM	BEAM	HSS	HOLLOW STRUCTURAL STEEL	TYP	TYPICAL
BO	BOTTOM OF	IBC	INTERNATIONAL BUILDING CODE	UNO	UNLESS NOTED OTHERWISE
BOS	BOTTOM OF SLAB	IF	INSIDE FACE	VY	VERIFY
BOT	BOTTOM	INT	INTERIOR	WHS	WELDED HEADED STUD
BRG	BEARING	K	KIPS (1000 POUNDS)	WP	WORK POINT
CD	CONTROLLED DENSITY FILL	LAT	LATERAL	WTS	WELDED THREADED STUD
CG	CENTER OF GRAVITY	LDGR	LEDGER	X-STG	EXTRA STRONG
CIP	CAST IN PLACE	LLH	LONG LEG HORIZONTAL	XX-STG	DOUBLE EXTRA STRONG
CJ	CONTROL JOINT	LLV	LONG LEG VERTICAL		
CJP	COMPLETE JOINT PENETRATION	MAS	MASONRY		
COL	COLUMN	MB	MACHINE BOLT (A307)		
CONST	CONSTRUCTION	MFR	MANUFACTURER		
CONT	CONTINUOUS	MTL	METAL		
CTSK	COUNTERSINK	(N)	NEW MEMBER		
D	DEPTH	NS	NEAR SIDE		
DBL	DOUBLE	OH	OVERHANG		
DIAPH	DIAPHRAGM	ORNT	ORIENTATE (ION)		
do	DITTO (DO OVER)	PAR	PARALLEL		
DWG	DRAWING	P/C	PRECAST CONCRETE		
DWL	DOWEL	PERP	PERPENDICULAR		
EA	EACH	P/T	POST TENSIONED		
EF	EACH FACE	QTY	QUANTITY		
EJ	EXPANSION JOINT	REF	REFERENCE		
EMBD	EMBED(MENT)	REINF	REINFORCEMENT		
ENG	ENGINEER	SHT	SHEET		
EQ	EQUAL	SHTG	SHEATHING		
ES	EACH SIDE	SIM	SIMILAR		
EXIST	EXISTING MEMBER	SKW	SKEW(ED)		
EXT	EXTERIOR	SPC	SPACING		
FFE	FINISHED FLOOR ELEVATION	SS	STAINLESS STEEL		
FND	FOUNDATION	STGR	STAGGER		
FO	FACE OF	STIFF			

STRUCTURAL LEGEND



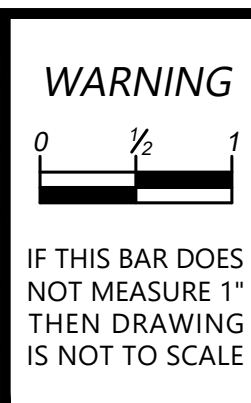
SPECIAL INSPECTION SCHEDULE

VERIFICATION AND INSPECTION	CI	PI	REMARKS/REFERENCES
STEEL:			
MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:			
MANUFACTURER'S CERTIFICATE	-	X	
INSPECTION OF HIGH-STRENGTH BOLTING:	-	X	AISC 360, SECTION N5.6
MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:	-	X	
IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	-	X	AISC 360, N5.7
INSPECTION OF WELDING:			SHOP AND FIELD
COMPLETE AND PARTIAL PENETRATION GROOVE WELDS	X	-	AWS D1.1
MULTIPASS, SINGLE-PASS FILLET WELDS > 5/16", PLUG AND SLOT WELDS	X	-	AWS D1.1
SINGLE-PASS FILLET WELDS < 5/16", FLOOR AND ROOF DECK WELDS	-	X	AWS D1.3
REINFORCING STEEL	X	-	AWS D1.4, ACI 318: SECTION 26.6.4

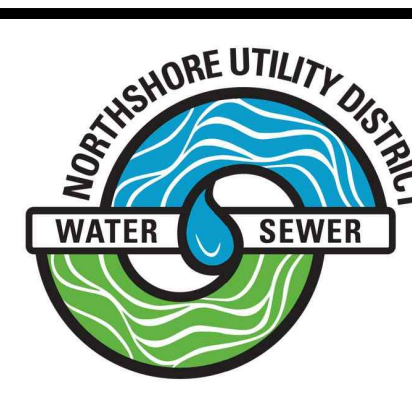
INSPECTION SCHEDULE NOTES

- ITEMS MARKED WITH AN "X" REQUIRE INSPECTION BY A SPECIAL INSPECTOR APPROVED BY THE BUILDING OFFICIAL.
- ITEMS MARKED "NA" ARE NOT APPLICABLE TO THIS PROJECT.
- CI = CONTINUOUS INSPECTION DURING PROGRESS OF WORK BY SPECIAL INSPECTOR.
- PI = PERIODIC INSPECTION BY SPECIAL INSPECTOR AS REQUIRED TO CONFIRM CONFORMANCE OF WORK.
- TESTING AND INSPECTION REPORTS SHALL BE SUBMITTED TO THE ENGINEER, BUILDING OFFICIAL AND CONTRACTOR.
- OWNER WILL CONTRACT FOR SPECIAL INSPECTION SERVICES.

NO	BY	APPD	REVISION	DATE



DESIGNED BY	MJB
DRAWN BY	RAH
CHECKED BY	MJB
APPROVAL	MJB
DATE	MAR. 2023

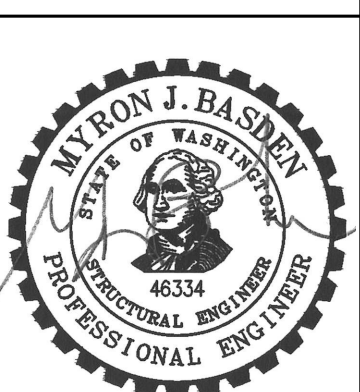


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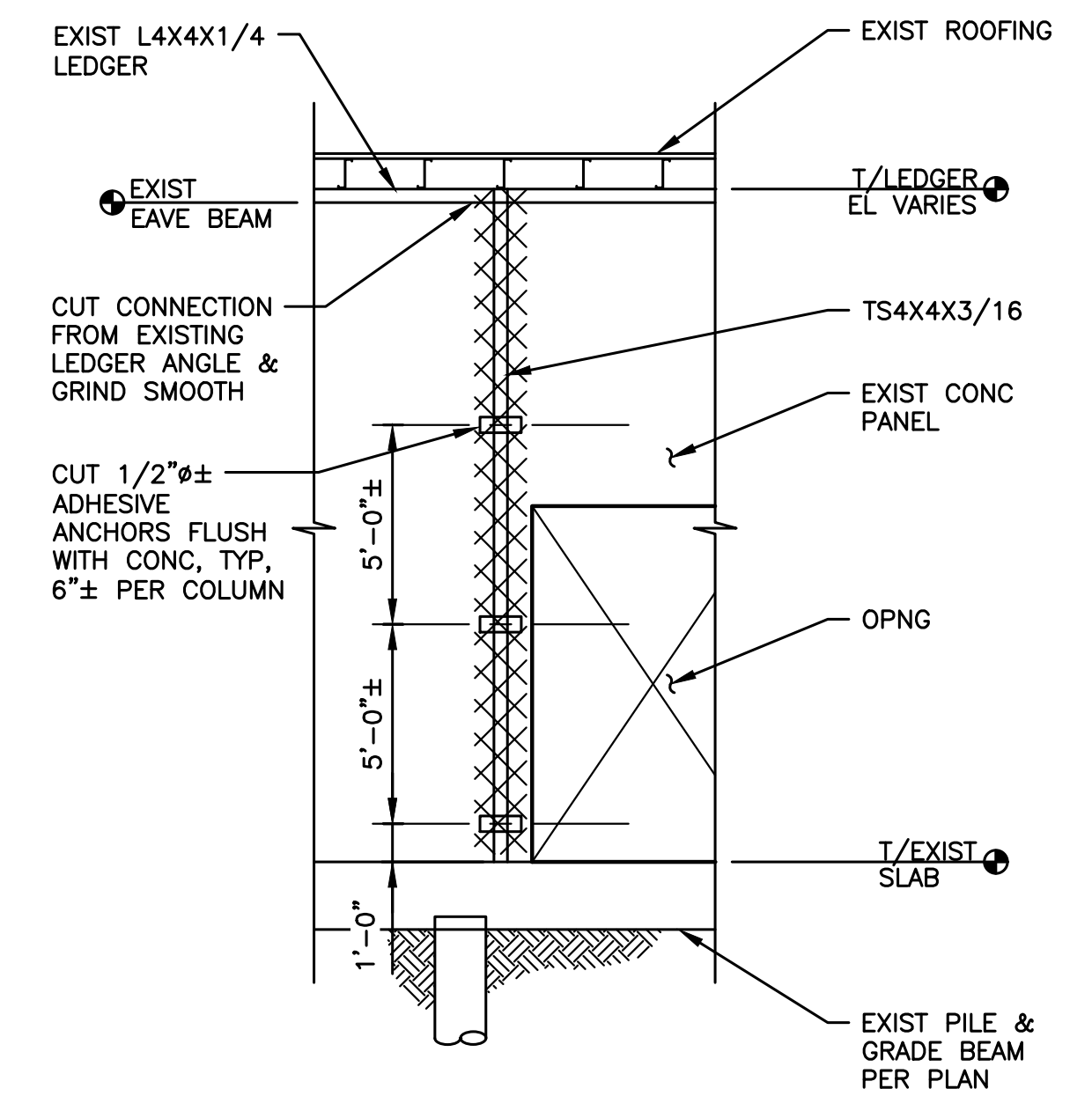
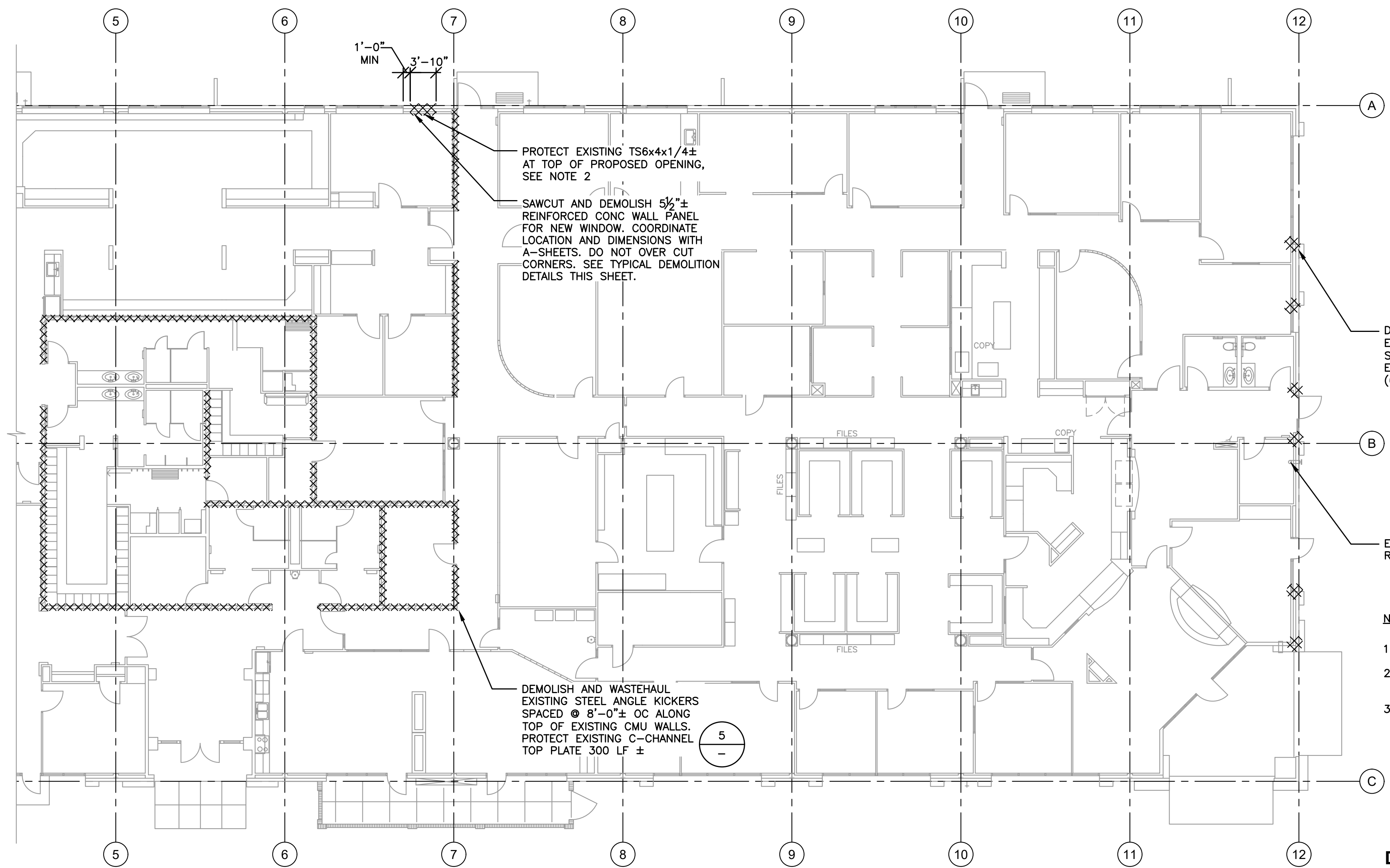
CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS
SCHEDULE B
GENERAL STRUCTURAL NOTES, SPECIAL INSPECTION SCHEDULE, SUPPLEMENTAL STRUCTURAL ABBREVIATIONS, AND STRUCTURAL LEGEND



3/7/2023

SHEET

S-1
OF 6

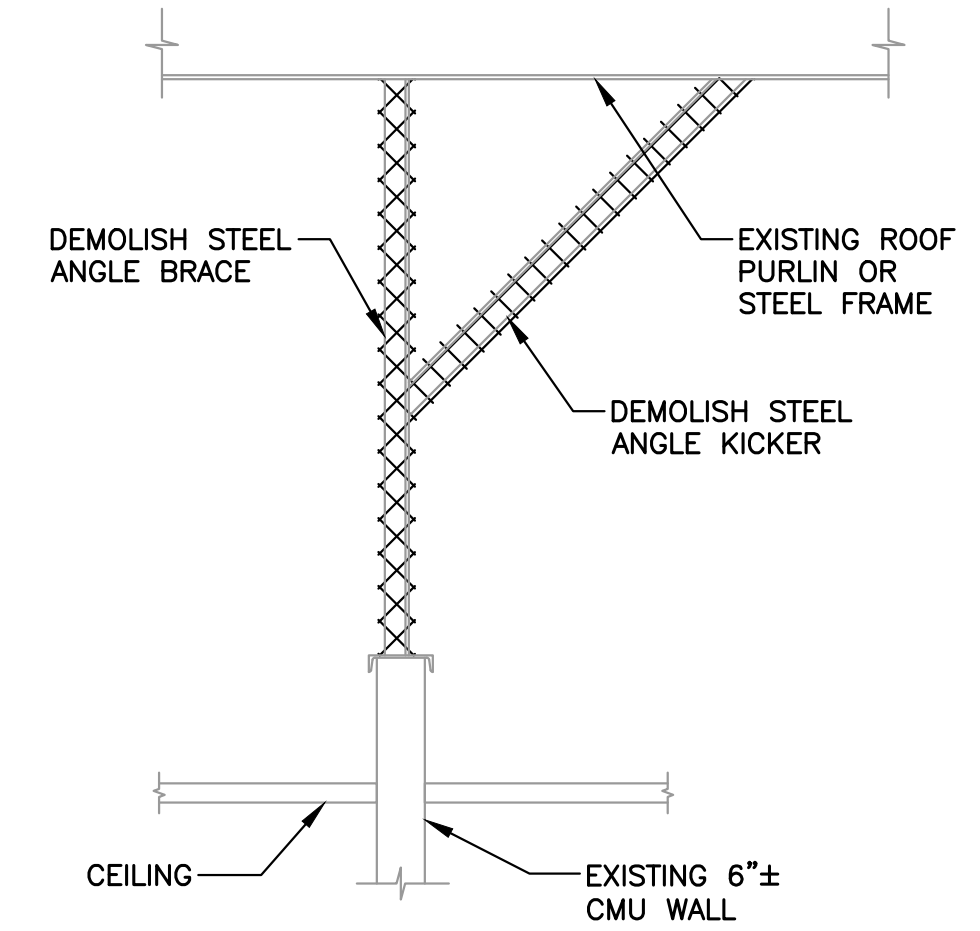


NOTE:
 1. CONDITIONS SHOWN ARE BASED ON BEST AVAILABLE INFORMATION. GENERAL CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION.

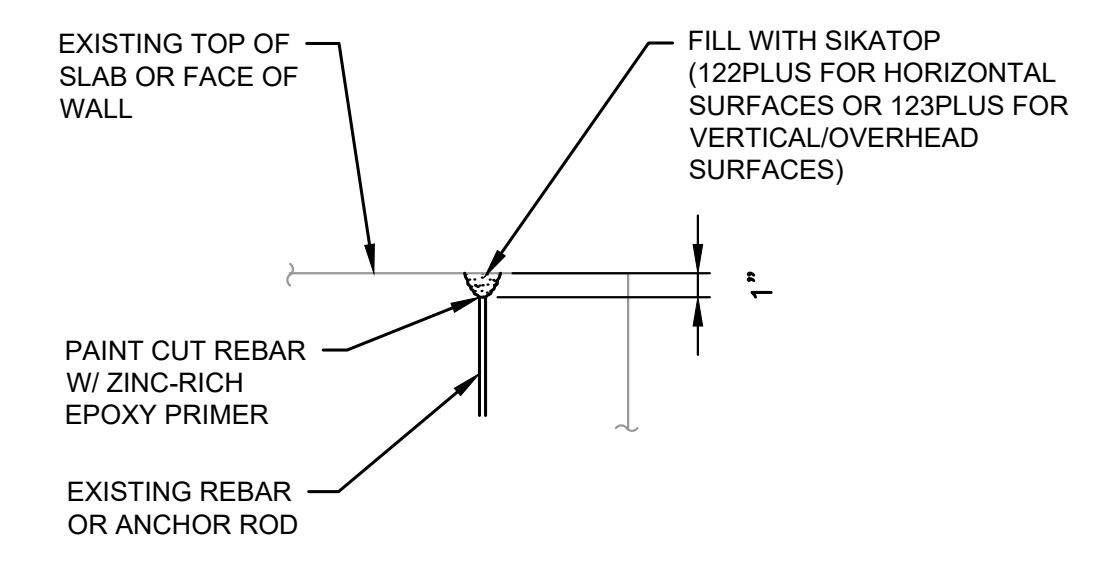
TYPICAL EXISTING HSS STRONGBACK DEMOLITION DETAIL
 1 TYP NTS

NOTES:
 SEE ARCHITECTURAL SHEETS FOR 1. BALANCE OF INFORMATION.
 2. EXISTING ITEMS SHOWN BASED ON BEST AVAILABLE INFORMATION. FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING WORK.
 SEE SHEET S-1 FOR GENERAL STRUCTURAL NOTES.

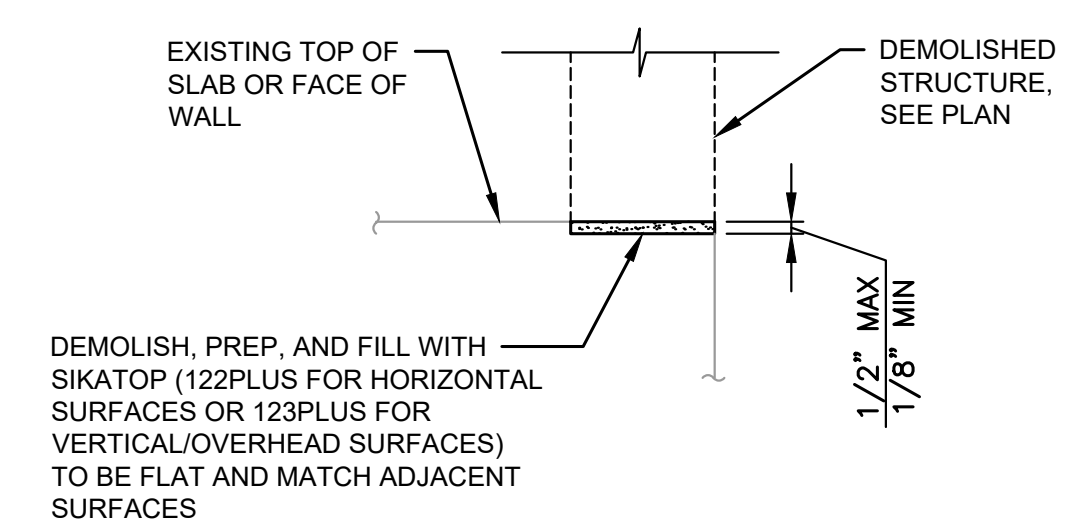
DEMOLITION PLAN
 SCALE: 3/32"=1'-0"



5 TYP
TYPICAL CMU WALL BRACE DEMOLITION DETAIL
 SCALE: 1/2"=1'-0"



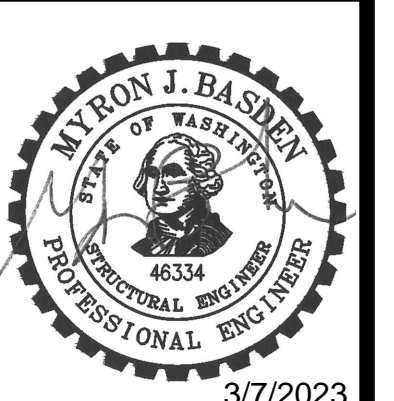
4 TYP
TYPICAL REBAR DEMOLITION DETAIL
 SCALE: 1 1/2"=1'-0"



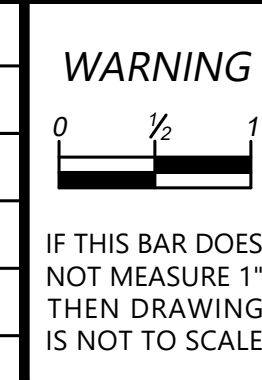
3 TYP
TYPICAL DEMOLITION BOUNDARY DETAIL
 SCALE: 1 1/2"=1'-0"



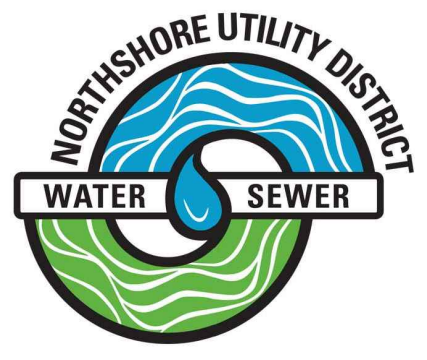
2 NTS
PHOTO DETAIL



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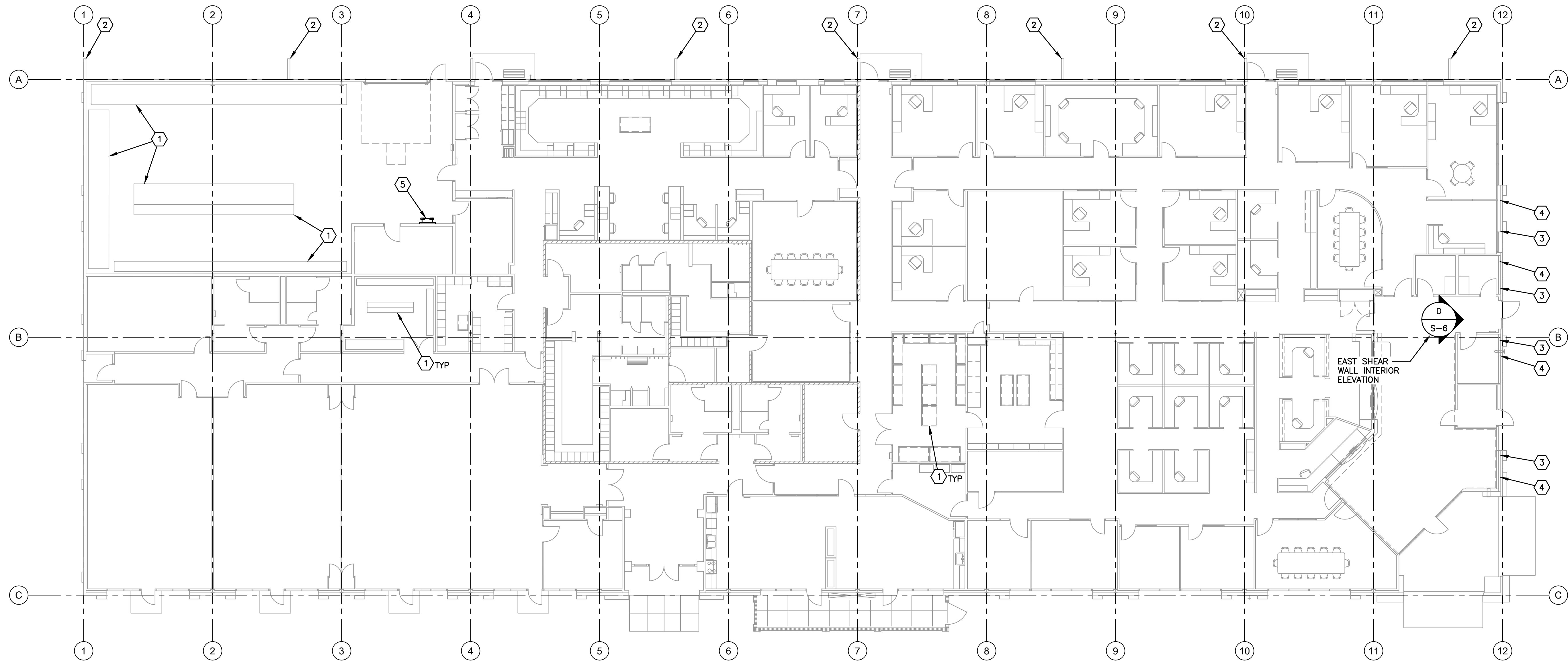
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APPROVAL	MJB
DATE	MAR. 2023



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CONTRACT 2023-01
 BUILDING "A" IMPROVEMENTS
 SCHEDULE B
DEMOLITION PLAN

SHEET
 S-2
 OF 6



FLAG NOTES:

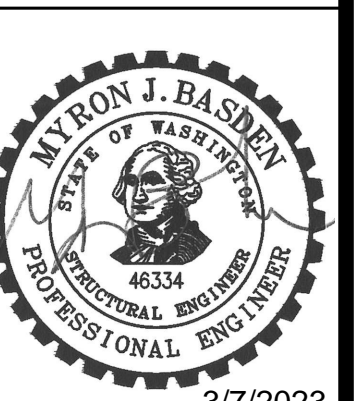
- 1 ANCHOR SHELVING. SEE $\frac{2}{S-5}$ FOR ANCHORAGE DETAILS.
- 2 BRACE EXISTING CONCRETE WING WALLS. SEE $\frac{4}{S-5}$ FOR DETAILS.
- 3 SHEAR WALL REINFORCEMENT. SEE $\frac{5}{S-5}$ FOR DETAILS.
- 4 ADDITIONAL SHEAR WALL ANCHORAGE. SEE $\frac{6}{S-5}$ FOR DETAILS.
- 5 ROOF ACCESS LADDER, SEE $\frac{1}{S-6}$ FOR DETAILS.

FLOOR PLAN

SCALE: 3/32"=1'-0"

NOTES:

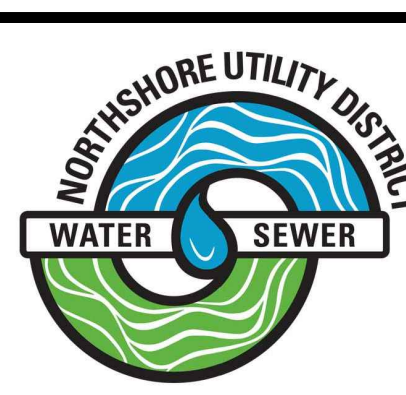
1. SEE ARCHITECTURAL SHEETS FOR BALANCE OF INFORMATION.
2. EXISTING ITEMS SHOWN BASED ON BEST AVAILABLE INFORMATION. FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING WORK.
3. SEE SHEET S-1 FOR GENERAL STRUCTURAL NOTES.
4. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN INSTALLING SEISMIC BRACING AT THE EAST WALL IN ORDER TO AVOID DAMAGE TO EXISTING FLOOR SLAB PRESTRESSED, BANDED TENDONS. PRIOR TO COMMENCING EAST WALL CONSTRUCTION, THE CONTRACTOR SHALL DETERMINE THE LOCATION OF THE TENDONS BY APPROVED NON-DESTRUCTIVE METHODS SUCH AS X-RAY OR RADAR. IN THE EVENT THAT THE EXISTING TENDONS ARE DAMAGED BY THE CONTRACTOR'S ACTIVITIES, THEY SHALL BE REPAIRED BY METHODS APPROVED BY THE ENGINEER, AT NO COST TO THE DISTRICT. FINAL LAYOUT OF SEISMIC BRACING AT THE EAST WALL SHALL BE CONFIRMED WITH THE ENGINEER AFTER PRESTRESSED TENDONS HAVE BEEN LOCATED.



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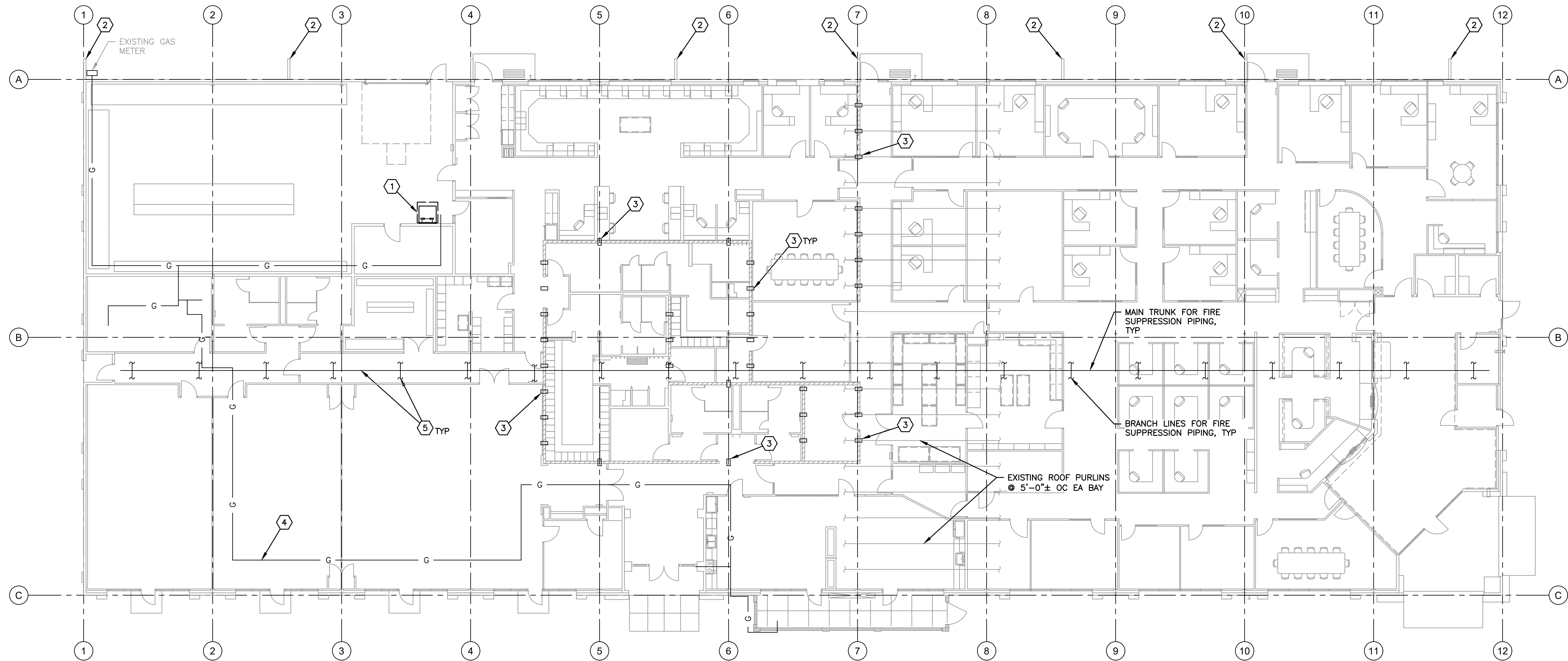
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CONTRACT 2023-01
 BUILDING "A" IMPROVEMENTS
 SCHEDULE B

STRUCTURAL FLOOR PLAN

SHEET

S-3
 OF 6



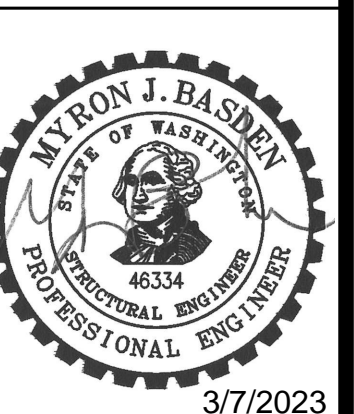
FLAG NOTES:

- ① NEW ROOF ACCESS HATCH. SEE $\frac{1}{S-6}$.
- ② BRACE EXISTING CONCRETE WING WALLS. SEE $\frac{4}{S-5}$ FOR DETAILS.
- ③ APPROXIMATE LOCATION OF SEISMIC BRACING FOR CMU WALLS. SEE $\frac{3}{S-5}$ FOR DETAILS.
- ④ SEISMIC BRACING FOR EXISTING NATURAL GAS PIPING, VERIFY LOCATION IN FIELD. SEE $\frac{1}{S-5}$.
- ⑤ SEISMIC BRACING FOR EXISTING FIRE SUPPRESSION PIPING, VERIFY LOCATION IN FIELD. SEE $\frac{1}{S-5}$.

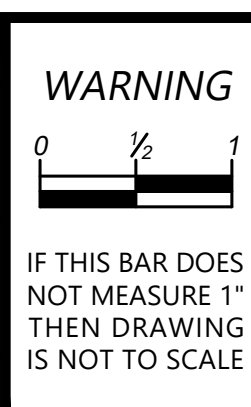
UPPER PLAN
SCALE: 3/32"=1'-0"

NOTES:

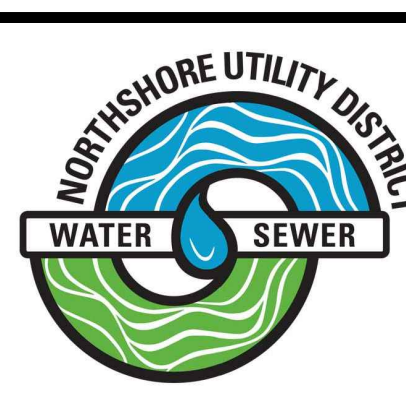
1. SEE ARCHITECTURAL SHEETS FOR BALANCE OF INFORMATION.
2. EXISTING ITEMS SHOWN BASED ON BEST AVAILABLE INFORMATION. FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING WORK.
3. SEE SHEET S-1 FOR GENERAL STRUCTURAL NOTES.



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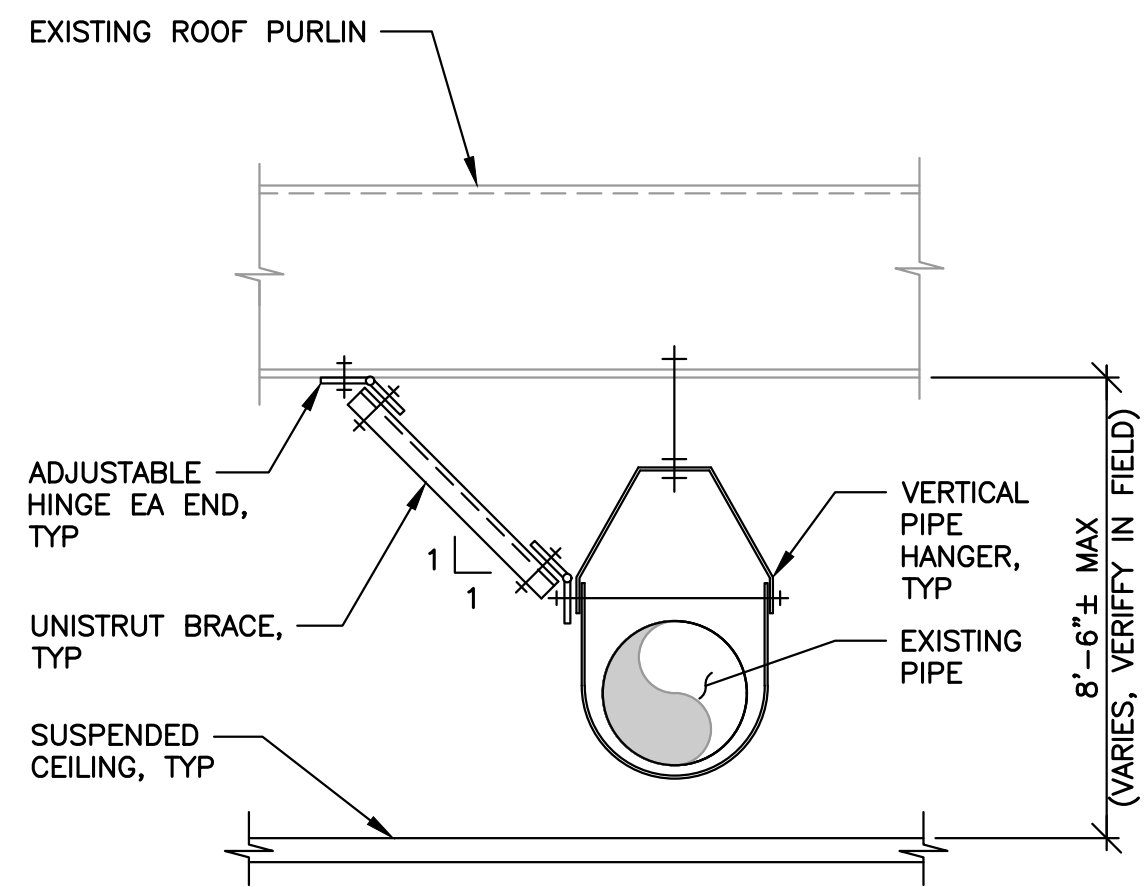
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CONTRACT 2023-01
 BUILDING "A" IMPROVEMENTS
 SCHEDULE B
STRUCTURAL UPPER PLAN

SHEET

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 OF 6

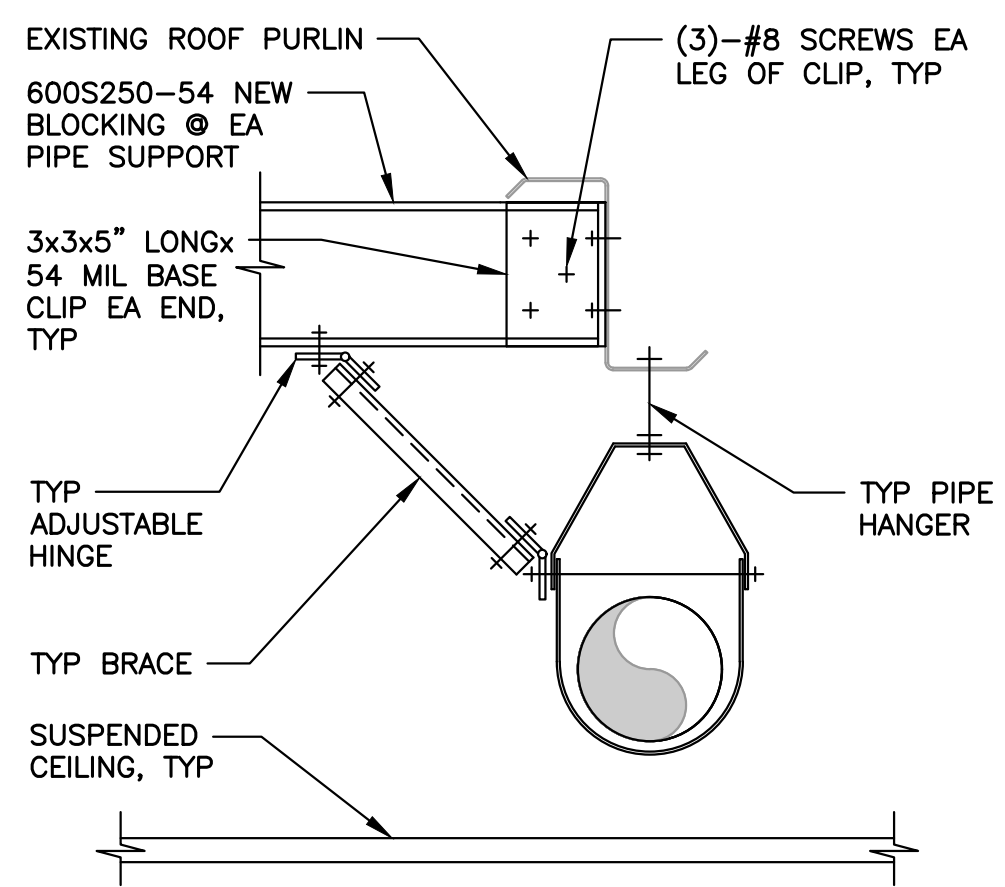


CONDITION NO. 1

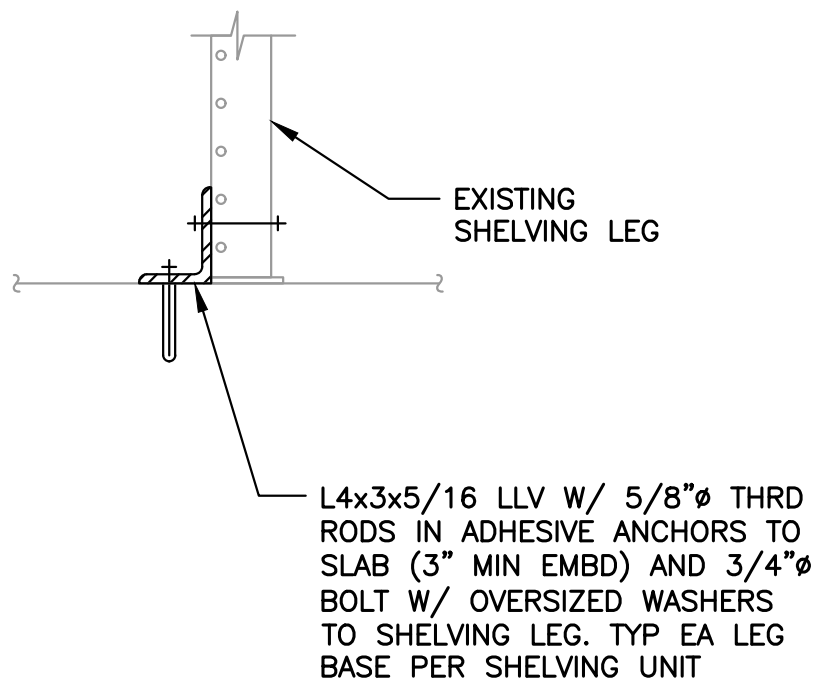
NOTES:

- SEISMIC BRACING SHALL BE DESIGNED AND INSTALLED ALONG THE FULL LENGTH OF NATURAL GAS PIPING AND FIRE SUPPRESSION PIPING WITHIN THE BUILDING.
- SPACE PIPE SUPPORTS A MAXIMUM OF 12'-0" OC AND AT ALL PIPE BENDS.
- PIPE SUPPORTS SHALL COMPLY WITH IBC 2018 REQUIREMENTS.
- SEISMIC BRACING SHALL BE DESIGNED BY THE INSTALLER FOR THE FOLLOWING PARAMETERS:
 - Sds=0.756 g
 - Ip=1.0 FOR FIRE SUPPRESSION PIPING
 - Ip=1.5 FOR NATURAL GAS PIPING
- SUBMIT PIPE SUPPORT CALCULATIONS AND DRAWINGS THAT HAVE BEEN STAMPED AND SIGNED BY A PROFESSIONAL CIVIL ENGINEER LICENSED BY THE STATE OF WASHINGTON FOR REVIEW.

1 TYPICAL SEISMIC PIPE SUPPORT
TYP NTS



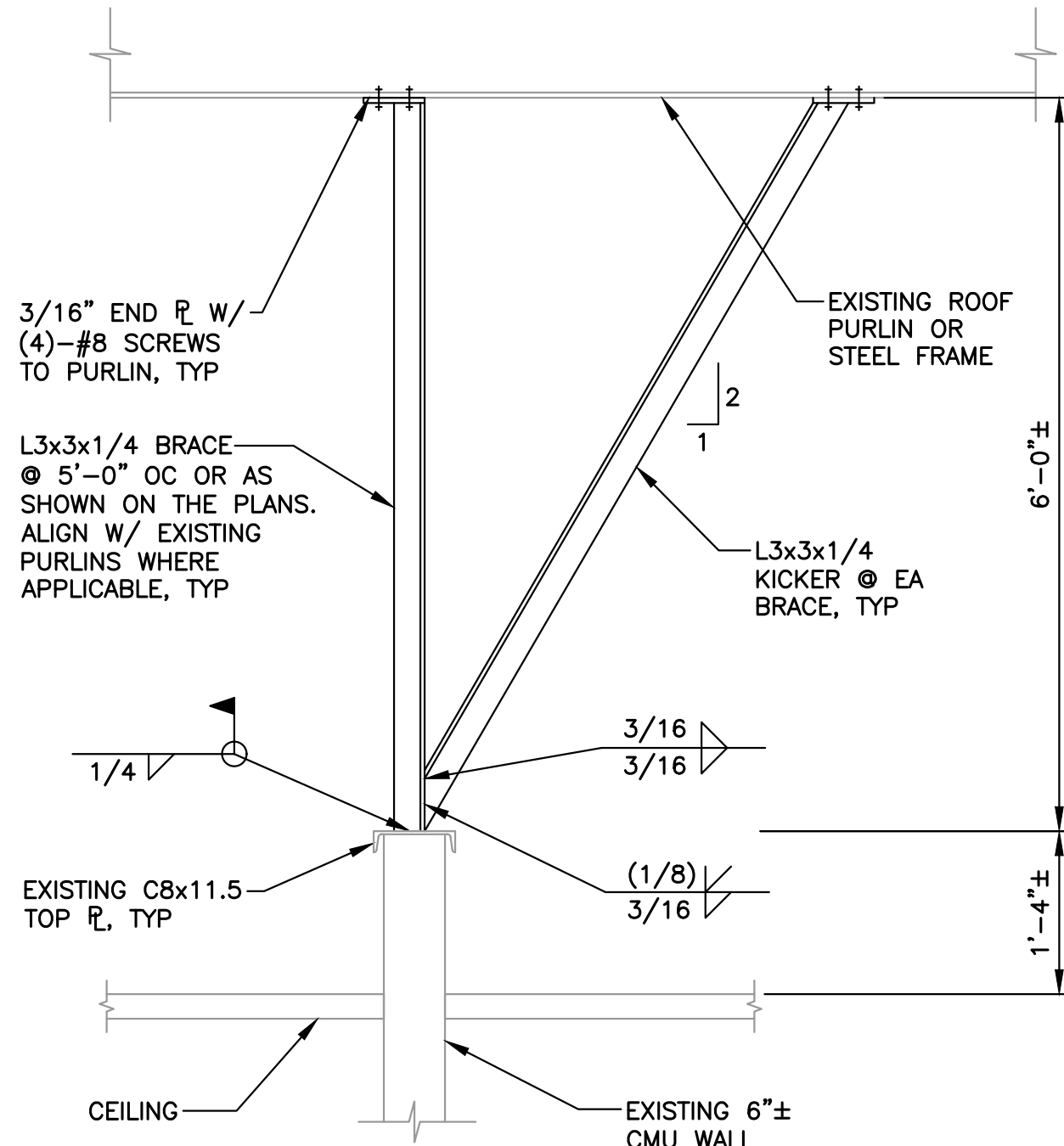
CONDITION NO. 2



NOTE:

- SHELVING UNITS LESS THAN 8' IN HEIGHT DO NOT REQUIRE ANCHORAGE.

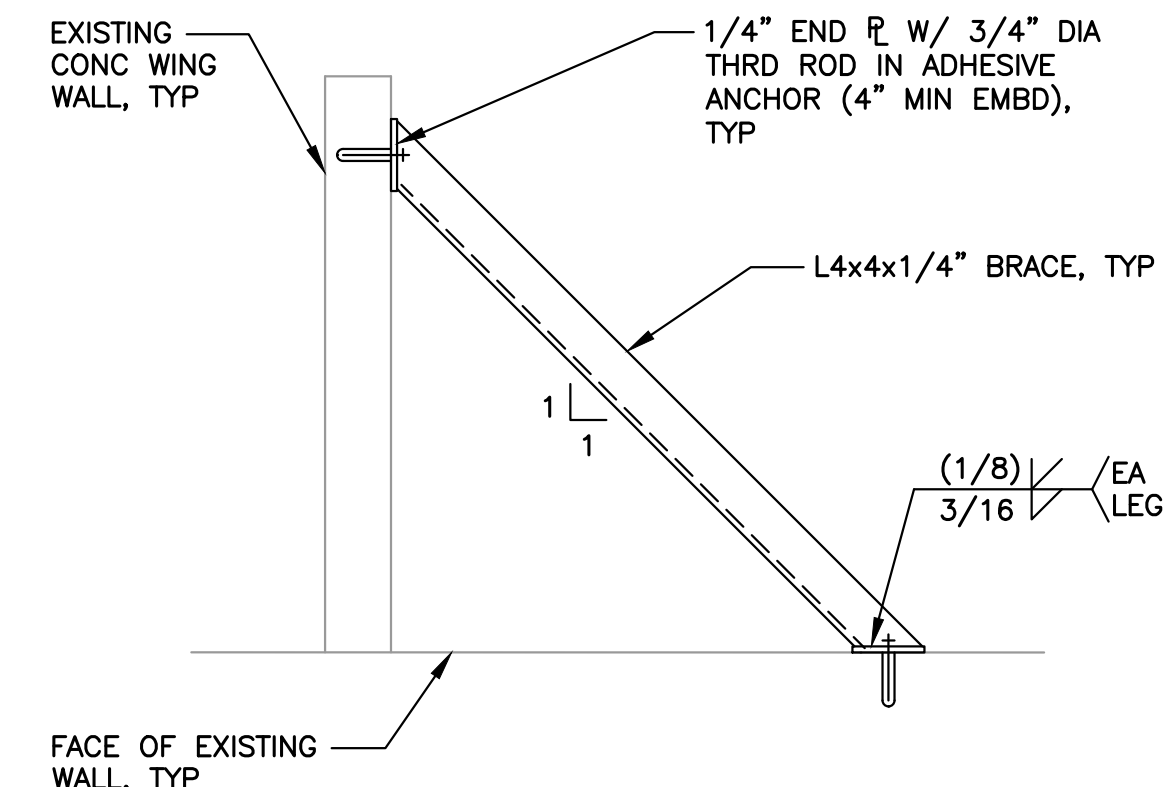
2 TYPICAL SHELVING ANCHORAGE
TYP SCALE: 1 1/2"=1'-0"



NOTE:

- SEE 7 FOR TYPICAL CMU WALL TOP PLATE SPLICE AT WALL INTERSECTIONS.

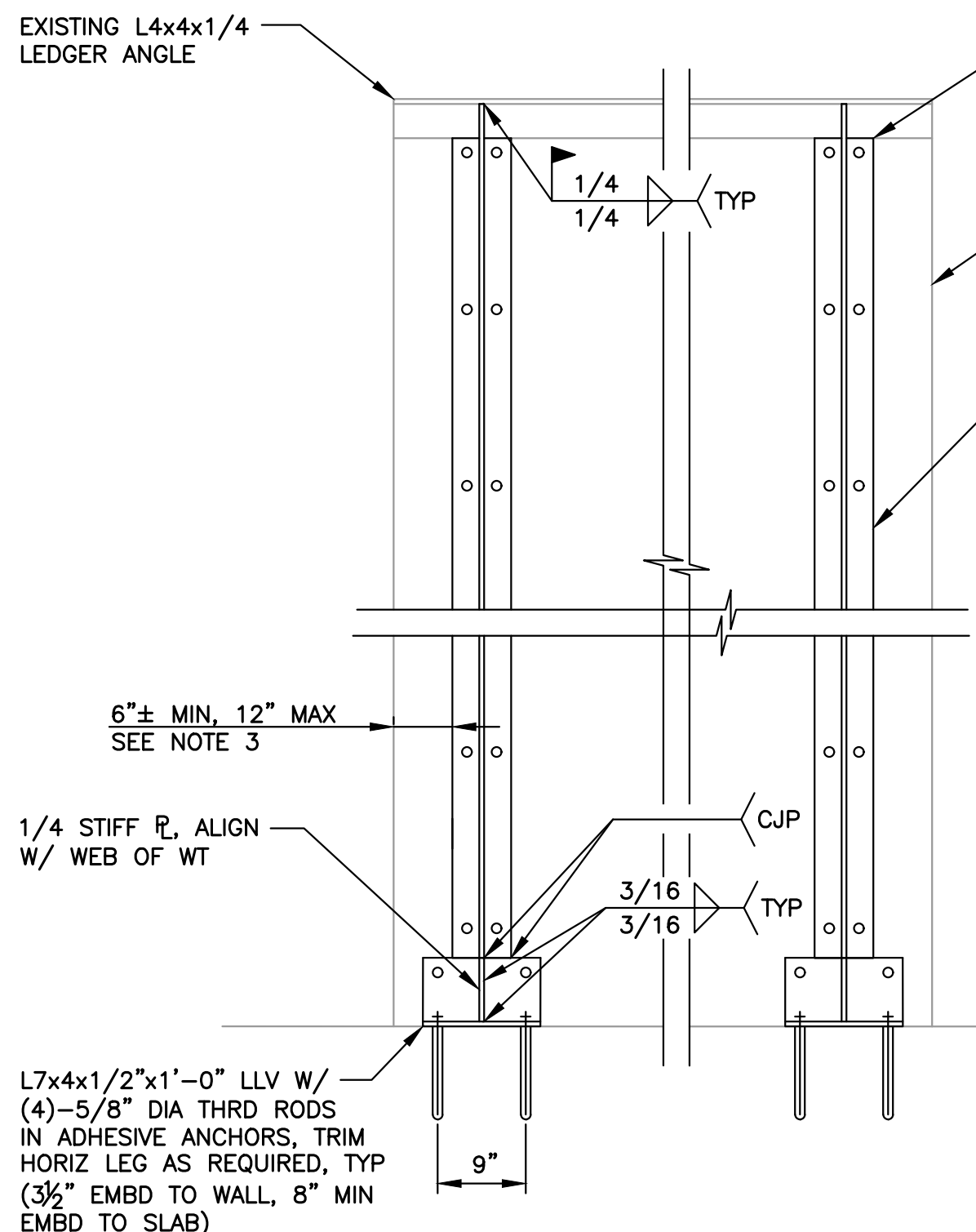
3 TYPICAL CMU WALL BRACE
TYP SCALE: 3/4"=1'-0"



NOTE:

- LOCATE BRACE ON COVERED SIDE OF WING WALL AT THE UNDERSIDE OF THE CANOPY FRAMING.

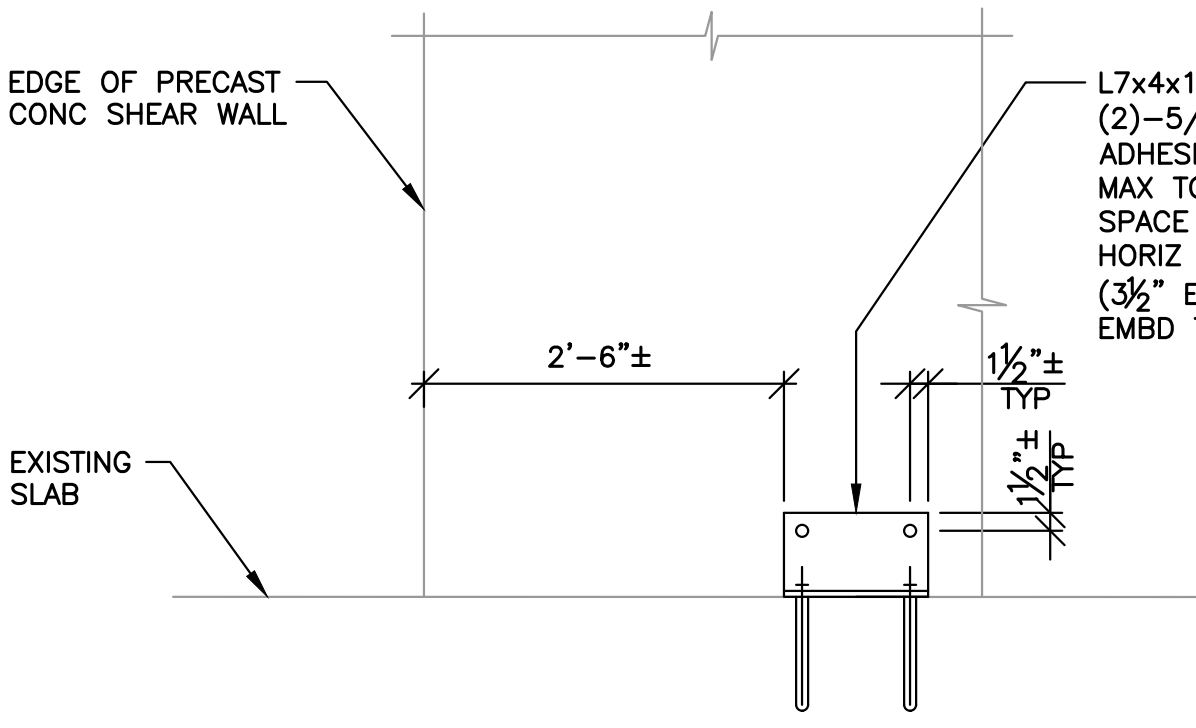
4 TYPICAL WING WALL BRACE - PLAN DETAIL
TYP SCALE:



NOTES:

- ANCHORS SHALL BE PLACED AS REQUIRED TO AVOID CONFLICT WITH EXISTING STEEL EMBEDMENT PLATES AND EXISTING BANDED TENDONS. CONTRACTOR TO FIELD VERIFY LOCATION PRIOR TO FABRICATION.
- STRONGBACKS AND ANCHORAGE SHALL BE INSTALLED ON THE INTERIOR OF THE WALLS, UNO.
- ADHESIVE ANCHORS AT THE FLOOR SLAB SHALL BE PLACED SUCH THAT THERE IS A MINIMUM OF 1 1/2" CLEAR BETWEEN THE DRILLED HOLE AND ANY EXISTING BANDED TENDONS.
- CONTRACTOR SHALL FIELD VERIFY LOCATION OF POST TENSIONED TENDONS IN EXISTING SLAB ON GRADE PRIOR TO DRILLING FOR ADHESIVE ANCHORS. EXISTING TENDONS MUST NOT BE CUT OR DAMAGED. SEE NOTES ON SHEET S-3 FOR MORE INFORMATION.
- STRUCTURAL STEEL ITEMS SHALL BE CONCEALED BY ARCHITECTURAL FINISHES, TYP

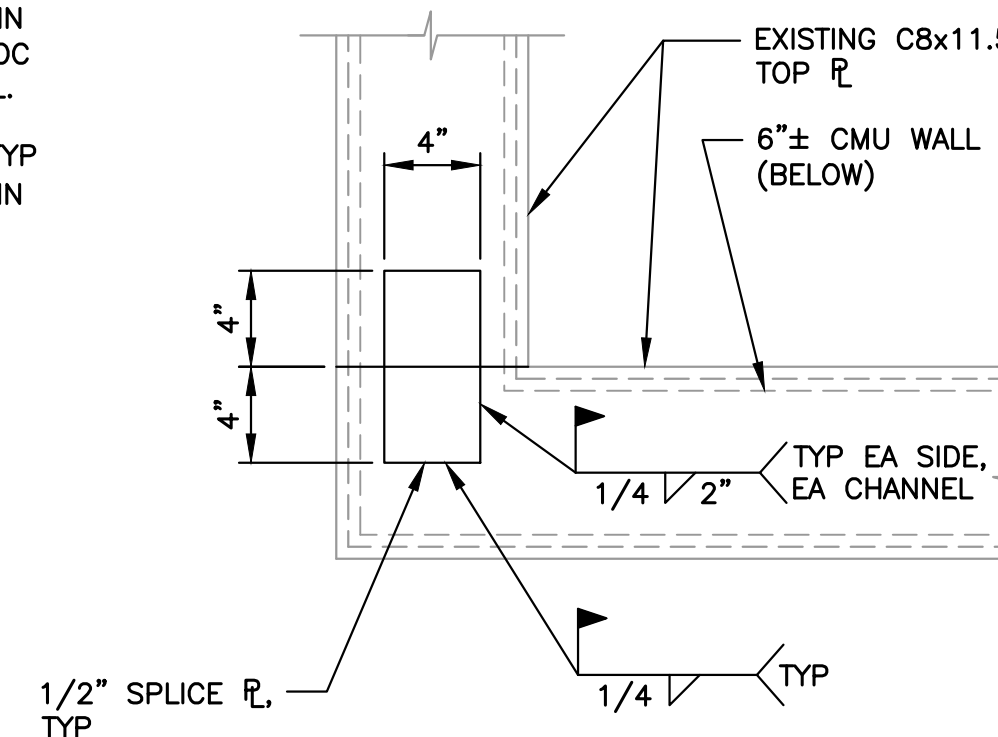
5 TYPICAL SHEAR WALL REINFORCING
TYP SCALE: 3/4"=1'-0"



NOTES:

- CONTRACTOR SHALL DETERMINE LOCATION OF ALL SLAB TENDONS PRIOR TO CONSTRUCTION PER NOTE 4 ON SHEET S-3.
- SHEAR ANCHORAGE SHALL BE INSTALLED ON THE INTERIOR OF THE WALLS, UNO.
- CONTRACTOR SHALL FIELD VERIFY LOCATION OF POST TENSIONED TENDONS IN EXISTING SLAB ON GRADE PRIOR TO DRILLING FOR ADHESIVE ANCHORS. EXISTING TENDONS MUST NOT BE CUT OR DAMAGED. SEE NOTES ON SHEET S-3 FOR MORE INFORMATION.
- STRUCTURAL STEEL ITEMS SHALL BE CONCEALED BY ARCHITECTURAL FINISHES, TYP

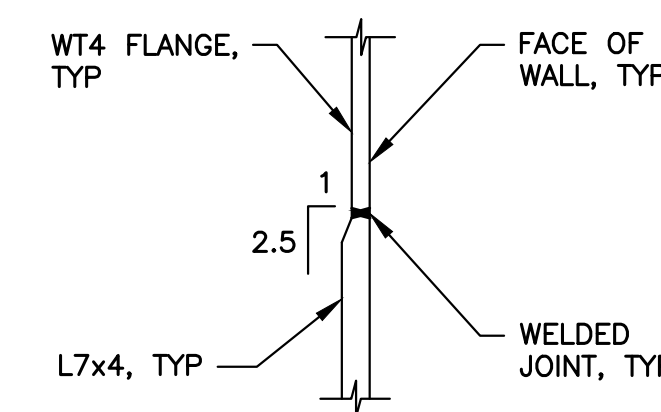
6 TYPICAL SHEAR WALL ANCHORAGE
TYP SCALE: 3/4"=1'-0"



NOTE:

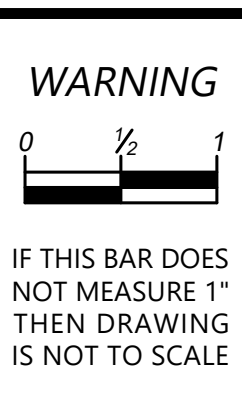
- CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO FABRICATION.

7 TYPICAL CMU WALL TOP PLATE SPLICE PLAN DETAIL
TYP SCALE: 1 1/2"=1'-0"

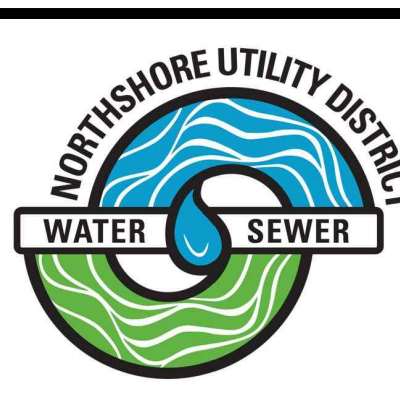


8 TYPICAL WT4 TO L7x4 WELD DETAIL
TYP SCALE: 3"=1'-0"

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DRAWN BY	RAH
CHECKED BY	MJB
APPROVAL	MJB
DATE	MAR. 2023



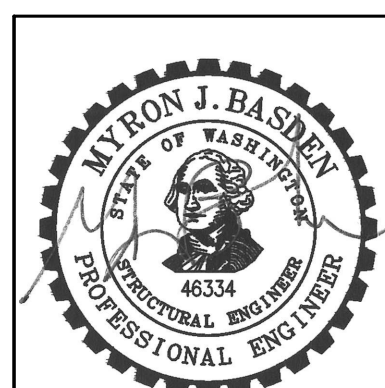
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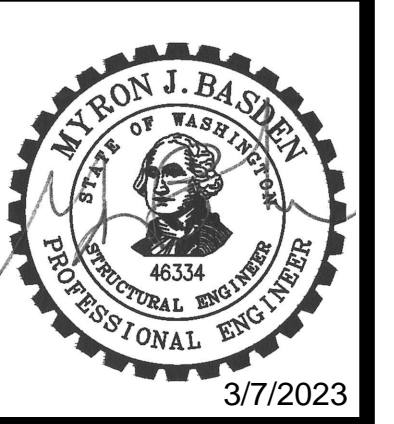
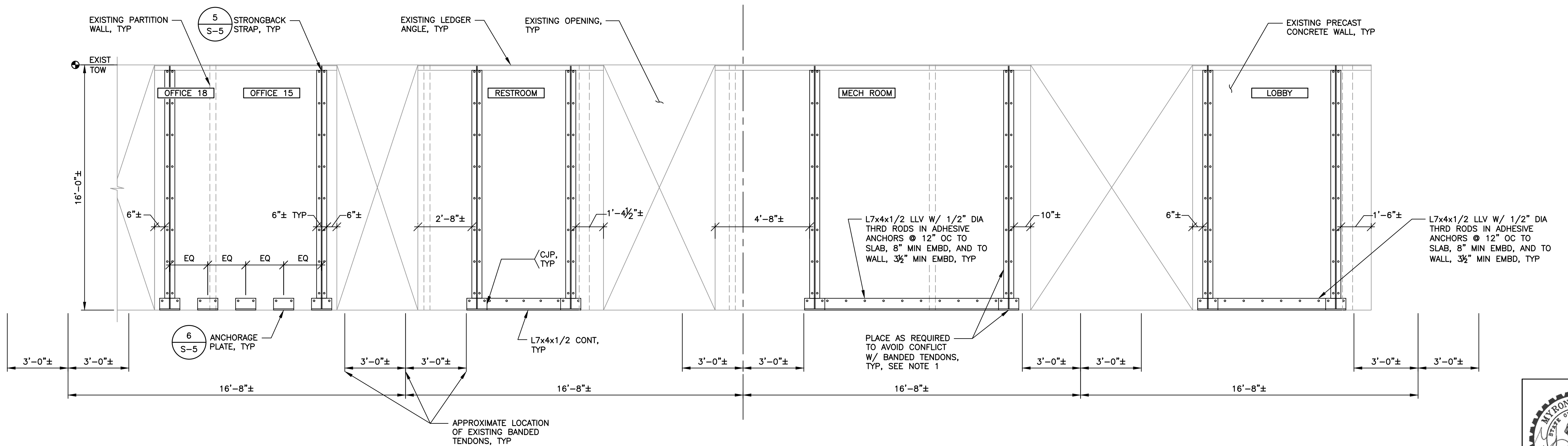
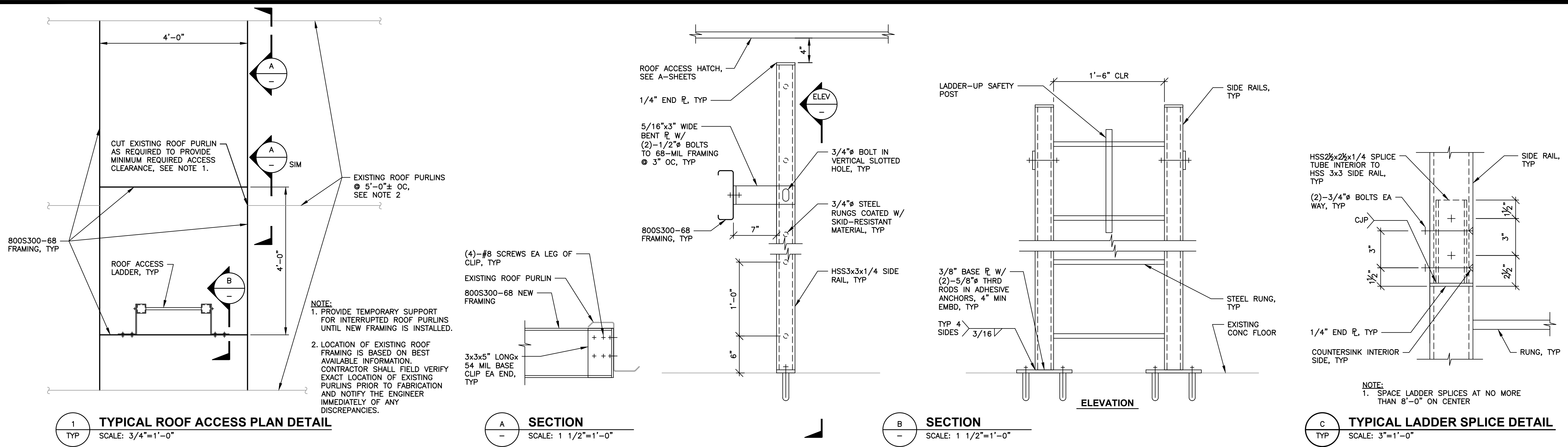
CONTRACT 2023-01
BUILDING "A" IMPROVEMENTS
SCHEDULE B

BUILDING DETAILS

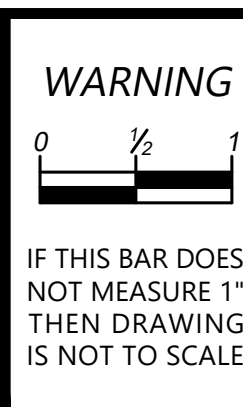


SHEET

S-5
OF 6



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CONTRACT 2023-01
 BUILDING "A" IMPROVEMENTS
 SCHEDULE B
BUILDING DETAILS AND EAST SHEAR WALL INTERIOR ELEVATION

SHEET
 S-6
 OF 6

SYMBOL	DESCRIPTION
	REVISION CLOUD (ENCIRCLES DRAWING CHANGES MADE SINCE THE PREVIOUS RELEASE)
	REVISION REFERENCE
	EQUIPMENT IDENTIFIER (XX=ABBREVIATION Y=EQUIPMENT SCHEDULE NUMBER)
	MATCHLINE
	DRAWING ("FLAG") NOTE
	NORTH REFERENCE
	DETAIL REFERENCE (DETAIL IDENTIFICATION NUMBER SHEET WHERE DETAIL IS DRAWN)
	ELEVATION REFERENCE (ELEVATION IDENTIFICATION NUMBER SHEET WHERE ELEVATION IS DRAWN)
	SECTION REFERENCE (SECTION IDENTIFICATION NUMBER SHEET WHERE SECTION IS DRAWN)
	CONSTRUCTION NOTE

ABBREVIATIONS

A	AMPERES
AFF	ABOVE FINISHED FLOOR
AG	ABOVE GRADE
ATS	AUTOMATIC TRANSFER SWITCH
BKR	BREAKER
C	CONDUIT
CKT	CIRCUIT
ENCL	ENCLOSURE
EXIST	EXISTING
E	EXISTING
FBOIC	FURNISHED BY OTHERS INSTALLED BY (ELECTRICAL) CONTRACTOR
G	GROUNDING CONDUCTOR
GEC	GROUNDING ELECTRICAL CONDUCTOR
GFI	GROUND FAULT INTERRUPTER
IC	INTERRUPTING CAPACITY
KA	KILOAMPERES
KVAR	KILO VOLT-AMPERES REACTIVE
KW	KILOWATTS
M	MAGNETIC CONTACTOR
N	NEUTRAL CONDUCTOR
NEMA	NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION
OL	OVERLOAD
P	POLES
PNL	PANEL
SUSE	SUITABLE FOR USE AS SERVICE ENTRANCE
SW	SWITCH
SWBD	SWITCHBOARD
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
WAP	WIRELESS ACCESS POINT
XFMR	POWER TRANSFORMER

SYMBOL	DESCRIPTION
	DEVICE OR EQUIPMENT TERMINAL
	WIRING CONNECTED
	BUS
	WIRING
	EQUIPMENT/DEVICE ENCLOSURE
	PLUG-IN CONNECTION
	NON-AUTOMATIC BREAKER
	THERMAL MAGNETIC BREAKER
	MAGNETIC ONLY BREAKER
	SWITCH
	FUSE
	POWER TRANSFORMER
	CONTROL POWER TRANSFORMER
	THERMAL OVERLOAD
	CURRENT TRANSFORMER
	CONTACTOR
	CAPACITOR
	GROUND CONNECTION
	TRANSFER SWITCH
	WATT-HOUR METER (REVENUE METERING)
	REACTIVE METER (REVENUE METERING) (SCALE)
	AMMETER (QUANTITY) (SCALE)
	VOLTAGE METER (QUANTITY) (SCALE)
	FREQUENCY METER (QUANTITY) (SCALE)
	GENERATOR
	SOLID NEUTRAL
	MOTOR-NO. = HORSEPOWER
	LOAD BREAK FUSE HOLDER AND FUSE

SYMBOL	DESCRIPTION
POWER DISTRIBUTION AND CONTROL	
	MOTOR CONTROL CENTER - FLOOR MOUNTED DISTRIBUTION/CONTROL EQUIPMENT
	PANELBOARD - WALL MOUNTED DISTRIBUTION/CONTROL EQUIPMENT
	SWITCH (SAFETY OR DISCONNECT)
	SWITCH (FUSIBLE)
	MOTOR STARTER (MAGNETIC)
	MOTOR (NUMBER = HORSEPOWER)
	INDICATES CIRCUIT BEING SWITCHED
	DEVICE BOX MOUNTED ABOVE SUSPENDED CEILING FOR RECEPTACLE CONTROL RELAY PROVIDED AS PART OF THE ENERGY MANAGEMENT SYSTEM. REFER TO LIGHTING PLAN DRAWING FOR RELAY DEVICE INFORMATION.
RECEPTACLE OUTLETS	
	GROUND FAULT CIRCUIT INTERRUPTER (NEMA 5-20R UNLESS OTHERWISE SPECIFIED) MOUNT HORIZONTALLY
	SIMPLEX RECEPTACLE OUTLET - WALL MOUNTED
	TRIPLEX RECEPTACLE OUTLET - WALL MOUNTED
	QUADRUPLIX RECEPTACLE OUTLET - WALL MOUNTED
	DUPLEX RECEPTACLE OUTLET - WALL MOUNTED SPLIT WIRED
	DUPLEX RECEPTACLE OUTLET - CEILING/ROOF OUTLET
	DUPLEX RECEPTACLE OUTLET - FLOOR OUTLET
	SPECIAL PURPOSE RECEPTACLE OUTLET
	SPECIAL PURPOSE RECEPTACLE OUTLET - WALL MOUNTED
	CONTINUOUS MULTIOUTLET ASSEMBLY (PLUGMOLD) WITH OUTLET 12" ON CENTER
	NEMA 6 RECEPTACLE - WALL MOUNTED RECEPTACLE AMP RATING
	DUPLEX RECEPTACLE OUTLET - WALL MOUNTED CONTROLLED BY ENERGY MANAGEMENT OR BUILDING AUTOMATION SYSTEMS. RECEPTACLE SHALL BE MARKED IN COMPLIANCE WITH NEC 406.3(E)
	SPLIT WIRED DUPLEX RECEPTACLE OUTLET - WALL MOUNTED CONTROLLED BY ENERGY MANAGEMENT OR BUILDING AUTOMATION SYSTEMS. BOTTOM RECEPTACLE SHALL BE SWITCHED (CONTROLLED). TOP RECEPTACLE SHALL BE UNSWITCHED. RECEPTACLE SHALL BE MARKED IN COMPLIANCE WITH NEC 406.3(E)
	QUADRUPLIX RECEPTACLE OUTLET - WALL MOUNTED CONTROLLED BY ENERGY MANAGEMENT OR BUILDING AUTOMATION SYSTEMS. RECEPTACLE SHALL BE MARKED IN COMPLIANCE WITH NEC 406.3(E)
	SPLIT WIRED QUADRUPLIX RECEPTACLE OUTLET - WALL MOUNTED CONTROLLED BY ENERGY MANAGEMENT OR BUILDING AUTOMATION SYSTEMS. BOTTOM RECEPTACLES SHALL BE SWITCHED (CONTROLLED). TOP RECEPTACLES SHALL BE UNSWITCHED. RECEPTACLE SHALL BE MARKED IN COMPLIANCE WITH NEC 406.3(E)
DESIGNATIONS	
GF1	GROUND FAULT CURRENT INTERRUPTER
AF1	ARC FAULT CURRENT INTERRUPTER
WP	WEATHER PROOF
WPK	WEATHER PROOF WITH LOCKABLE COVER
D	DEDICATED RECEPTACLE
K	DEDICATED RECEPTACLE
GENERAL WIRING SYMBOLS	
	SPECIAL PURPOSE EQUIPMENT CONNECTION
	SPECIAL PURPOSE EQUIPMENT CONNECTION - WALL MOUNTED
	JUNCTION BOX
	WIRING RUN CONCEALED IN BUILDING STRUCTURE
	WIRING RUN CONCEALED UNDER SLAB OR BELOW GRADE
	INDICATES WIRE SIZE IF OTHER THAN NO.12AWG
	LINE OR PHASE CONDUCTOR
	NEUTRAL CONDUCTOR
	GROUNDING CONDUCTOR
	ARROWHEAD INDICATES HOMERUN TO EQUIPMENT/DEVICE NOTED AT END OF ARROWHEAD, NUMBER (WHERE NOTED) INDICATES CIRCUIT WITHIN EQUIPMENT/DEVICE NOTED.
	FLOOR/CEILING PENETRATION

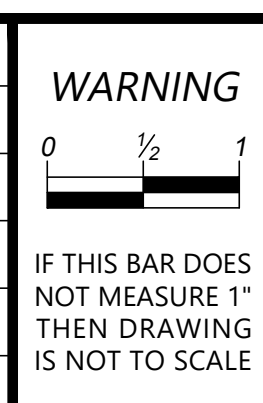
SYMBOL	DESCRIPTION
LIGHTING FIXTURES	
	LED, COMPACT FLUORESCENT OR HID FIXTURE SURFACE OR PENDANT MOUNTED
	LED, COMPACT FLUORESCENT OR HID FIXTURE RECESSED CEILING MOUNTED
	LED, COMPACT FLUORESCENT OR HID FIXTURE WALL MOUNTED
	LED, COMPACT FLUORESCENT OR HID FIXTURE RECESSED WALL MOUNTED
	LED OR HID LIGHT FIXTURE POLE MOUNTED
	LED FIXTURE SURFACE OR PENDANT MOUNTED
	LED FIXTURE RECESSED CEILING MOUNTED
	EXIT LIGHT FIXTURE
SWITCHING AND LIGHTING CONTROLS	
	LINE VOLTAGE SINGLE POLE SWITCH - WALL MOUNTED
DESIGNATIONS	
C	OCCUPANCY SENSING
3	THREE WAY SWITCH
4	FOUR WAY SWITCH
K	KEY OPERATED SWITCH
E	EXISTING SWITCH
M	MOTOR RATED SWITCH
D	DIMMING
T	TIME SWITCH
o	LOWER CASE = SWITCH LEG
ANY COMBINATION OF THE ABOVE DESIGNATIONS MAY BE SHOWN ON PLANS	
	LOW VOLTAGE SINGLE ZONE SWITCH - WALL MOUNTED
DESIGNATIONS	
C	OCCUPANCY SENSING
2	2 ZONE CONTROL
4	4 ZONE CONTROL
D	DIMMING
2S	2 SCENE CONTROLLER
4S	4 SCENE CONTROLLER
ANY COMBINATION OF THE ABOVE DESIGNATIONS MAY BE SHOWN ON PLANS	
	OCCUPANCY SENSOR, PASSIVE INFRARED CEILING MOUNTED
	OCCUPANCY SENSOR, DUAL TECHNOLOGY CEILING MOUNTED
	OCCUPANCY SENSOR, DUAL TECHNOLOGY CEILING MOUNTED, EXTENDED RANGE
	OCCUPANCY SENSOR, PASSIVE INFRARED CORNER MOUNT, WIDE VIEW.
	OCCUPANCY SENSOR, DUAL TECHNOLOGY CORNER MOUNT, WIDE VIEW.
	DAYLIGHT SENSOR, DUAL ZONE FOR AUTOMATIC DIMMING CONTROL
	PHOTOCELL
	RECEPTACLE LOAD CONTROL RELAY RATED 20 AMP
	LOAD CONTROL RELAY RATED 16 AMP
	SINGLE ZONE LIGHTING LOAD CONTROLLER WITH 0 TO 10 VOLT DIMMING
	TWO ZONE (2 RELAYS) LIGHTING LOAD CONTROLLER WITH 0 TO 10 VOLT DIMMING FOR EACH ZONE
	LIGHTING CONTROL SYSTEM NETWORK BRIDGE

SYMBOL	DESCRIPTION
TELEPHONE/DATA SYSTEM	
	SOLID BOTTOM CABLE TRAY
	WIREBASKET CABLE TRAY
	SURFACE RACEWAY
	TELECOMMUNICATIONS OUTLET WITH CATEGORY 6 RJ-45 PORTS TERMINATING CATEGORY 6 CABLES. (MOUNT AT +18" A.F.F. UNLESS NOTED OTHERWISE) (# INDICATES PORT COUNT. XXX INDICATES JACK REFERENCE NUMBER)
	TELECOMMUNICATIONS OUTLET FOR WAP WITH CATEGORY 6 RJ-45 PORTS TERMINATING CATEGORY 6 CABLES (MOUNT ABOVE CEILING)
	TELEPHONE WALL OUTLET WITH CATEGORY 6 RJ-45 PORTS TERMINATING CATEGORY 6 CABLES (MOUNT +54" AFF)

SHEET	DESCRIPTION
E-0.0	SYMBOL SCHEDULE
E-0.1	TAG LIST AND CONDUIT SCHEDULE
E-1.0	SITE PLAN WITH WORK AREA
E-1.1	SITE ELECTRICAL CONNECTION PLAN
E-1.11	BUILDING A - WEST ELECTRICAL POWER PLAN
E-1.12	BUILDING A - EAST ELECTRICAL POWER PLAN
E-1.13	BUILDING A - CENTRAL LIGHTING PLAN
E-1.14	BUILDING A - EAST LIGHTING PLAN
E-1.20	BUILDING B ELECTRICAL PLAN
E-1.21	BUILDING B ENLARGED ELECTRICAL PLANS
E-1.31	BUILDING C - FUELING STATION GENERATOR RECEPTACLE
E-5.0	ELECTRICAL DETAILS
E-6.0	REVISED ONE LINE DIAGRAM
E-6.1	PANEL SCHEDULES
E-6.2	PANEL SCHEDULES
E-6.3	PANEL SCHEDULES
E-6.4	PANEL SCHEDULES
E-6.5	LIGHTING SCHEDULES AND CONTROL WIRING
E-6.6	REVISED MAIN GROUNDING NETWORK
T-1.1	LOW VOLTAGE PLAN
T-5.1	LOW VOLTAGE SCHEDULES AND DETAILS
ED-1.11	BUILDING A - WEST ELECTRICAL DEMOLITION PLAN
ED-1.12	BUILDING A - EAST ELECTRICAL DEMOLITION PLAN
ED-1.13	BUILDING A - LIGHTING DEMOLITION PLAN
ED-1.21	BUILDING B - WEST ELECTRICAL DEMOLITION PLAN
ED-6.0	EXISTING ONE LINE DIAGRAM
TD-1.1	LOW VOLTAGE DEMOLITION PLAN

REFER TO LIGHTING CONTROL SCHEDULES ON SHEET E6.5 FOR GE ACTIVITY LIGHTING CONTROL DEVICE PART NUMBERS.

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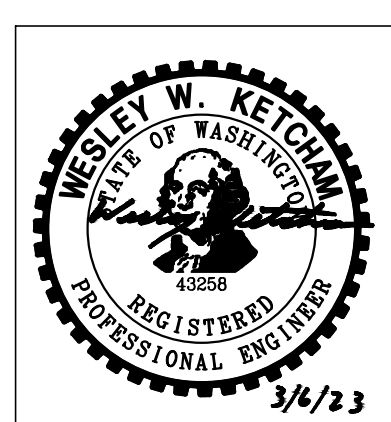


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CHECKED BY	WWK
APPROVAL	WWK
DATE	MAR. 2023

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CONTRACT 2021-03
 BUILDING A IMPROVEMENTS
SYMBOL SCHEDULE

SHEET
 E-0.0
 OF 27



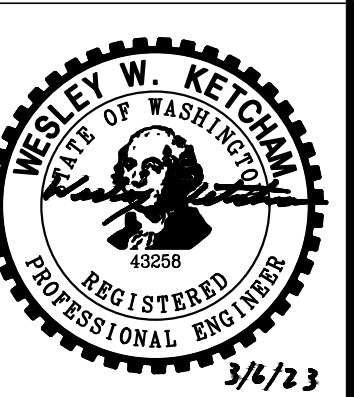
BUILDING A - ELECTRICAL DEVICE TAG LIST			
TAG ID#	DEVICE DESCRIPTION	LOCATION	STATUS
04 ATS 01	AUTO. TRANSFER SWITCH (4 POLES)	ELECT/MECH ROOM 64	NEW
04 SB 01	800A SWITCHBOARD	ELECT/MECH ROOM 64	EXISTING*
MDP	MAIN DISTRIBUTION PANEL	ELECT/MECH ROOM 64	EXISTING*
04 MTS 01	MANUAL TRANSFER SWITCH	EXTERIOR NORTH WALL	NEW
04 GDB 01	GENERATOR DISCONNECT BREAKER	EXTERIOR NORTH WALL	NEW
04 GREC 01	GENERATOR RECEPTACLE	EXTERIOR NORTH WALL	NEW
PANEL 4M1	400A, 480/277V PANEL	ELECT/MECH ROOM 64	EXISTING
PANEL 4M2	250A, 480/277V PANEL	MECH ROOM 09	EXISTING
PANEL 4E	225A, 480/277V PANEL	ELECT ROOM 52	EXISTING
PANEL 4L	250A, 480/277V PANEL	ELECT ROOM 52	EXISTING
PANEL 2E	150A, 208/120V PANEL	ELECT ROOM 52	EXISTING
PANEL 2E1	100A, 208/120V PANEL	ELECT ROOM 52	EXISTING
PANEL 2P1	100A, 208/120V PANEL	ELECT ROOM 52	EXISTING
PANEL 2P3	100A, 208/120V PANEL	MECH ROOM 09	EXISTING
PANEL 2P4	250A, 208/120V PANEL	MECH ROOM 09	EXISTING
PANEL 2P5	70A, 208/120V PANEL	ELECT/MECH ROOM 64	EXISTING
PANEL 2P6	125A, 208/120V PANEL	ELECT/MECH ROOM 64	EXISTING
PANEL 2SR	100A, 208/120V PANEL	ELECT ROOM 52	EXISTING
T-3	45KVA TRANSFORMER	MECH ROOM 09	EXISTING
T-4	15KVA TRANSFORMER	MECH ROOM 09	EXISTING
T-5	45KVA TRANSFORMER	ELECT ROOM 52	EXISTING
T-6	75KVA TRANSFORMER	ELECT ROOM 52	EXISTING
T-7	30KVA TRANSFORMER	ELECT/MECH ROOM 64	EXISTING
T-8	30KVA TRANSFORMER	ELECT ROOM 52	EXISTING
05 ATS 01	AUTO. TRANSFER SWITCH (4 POLES)	GEN ROOM BUILDING B	NEW

* AS PART OF IMPROVEMENT PROJECT, UPDATE EXISTING EQUIPMENT TAG AS INDICATED.

BUILDING B - ELECTRICAL DEVICE TAG LIST			
TAG ID#	DEVICE DESCRIPTION	LOCATION	STATUS
05 ATS 01	AUTO. TRANSFER SWITCH (4 POLES)	GEN ROOM BUILDING B	NEW
05 SB 01	SWITCHBOARD	BUILDING B ELEC SERVICE RM	EXISTING
05 MTS 01	MANUAL TRANSFER SWITCH	INTERIOR WEST WALL	EXISTING
05 GDB 01	GENERATOR DISCONNECT BREAKER	INTERIOR WEST WALL	EXISTING
05 GREC 01	GENERATOR RECEPTACLE	INTERIOR WEST WALL	EXISTING
05 XB1 01	MAIN DISTRIBUTION PANEL	GEN ROOM BUILDING B	EXISTING
05 SDS 10	DISCONNECT SWITCH	SOUTH INTERIOR WALL	NEW
05 T 10	25KVA TRANSFORMER	SOUTH INTERIOR WALL	NEW
05 PNL 10	204/120V PANEL	SOUTH INTERIOR WALL	NEW

BUILDING C - ELECTRICAL DEVICE TAG LIST			
TAG ID#	DEVICE DESCRIPTION	LOCATION	STATUS
02 C1 01	100A 120/208V 3 PHASE PANEL	EXTERIOR NORTH WALL	EXISTING
02 MTS 01	MANUAL TRANSFER SWITCH	EXTERIOR SOUTH WALL	NEW
02 GDB 01	GENERATOR DISCONNECT BREAKER	EXTERIOR SOUTH WALL	NEW
02 GREC 01	GENERATOR RECEPTACLE	EXTERIOR SOUTH WALL	NEW
02 SDS 01	FUELING STATION E-STOP	EXTERIOR SOUTH WALL	EXISTING

SERVICE AND FEEDER CONDUCTOR AND CONDUIT SCHEDULE					
ID	SETS	PHASE	COPPER		
			NEUT	GND	COND
50G	1	3#8		#10	3/4"
52NG	1	2#8	#8	#10	3/4"
70G	1	3#6		#8	1"
72G	1	2#6		#8	1"
100G	1	3#3		#8	1-1/4"
100NG	1	3#3	#3	#8	1-1/4"
125NG	1	3#2	#2	#6	1-1/4"
127NG	1	2#2	#2	#6	1-1/4"
150NG	1	3#1/0	#1/0	#6	2"
200NG	1	3#3/0	#3/0	#6	2"
225NG	1	3#4/0	#4/0	#4	2-1/2"
300NG	1	3#300	#300	#2	2-1/2"
400N	2	3#3/0	#3/0		2"
400NG	2	3#3/0	#3/0	#2	2"



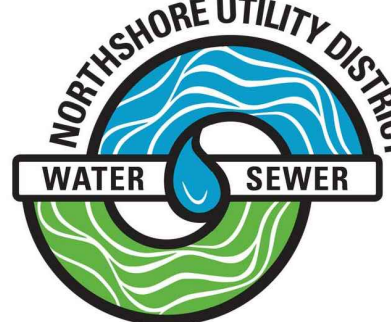
NO	BY	APPD	REVISION	DATE

WARNING

 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



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DRAWN BY	DYA
CHECKED BY	WWK
APPROVAL	WWK
DATE	MAR. 2023



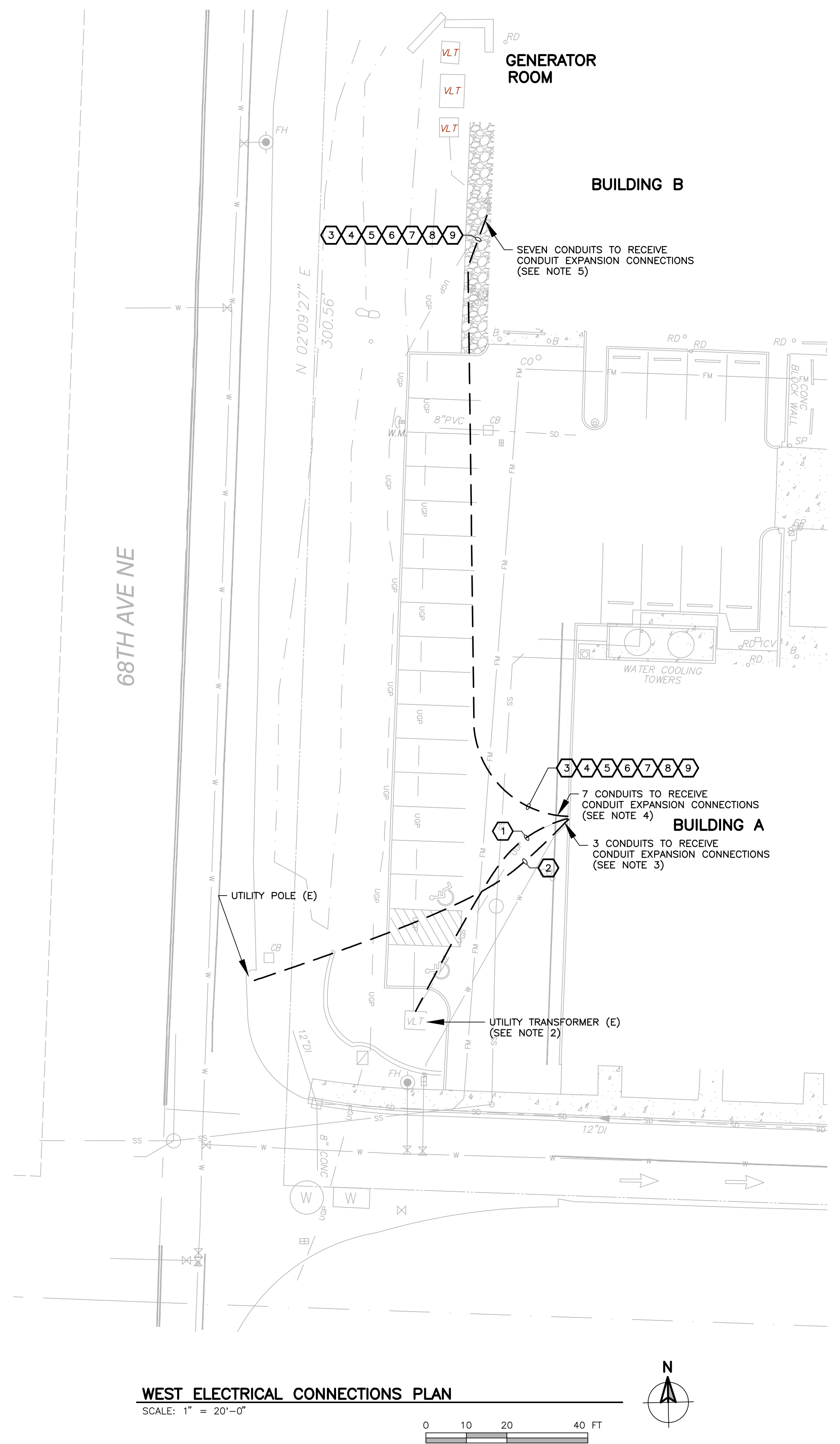
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CONTRACT 2021-03
 BUILDING A IMPROVEMENTS
CONDUIT SCHEDULE AND DEVICE TAG LIST

SHEET

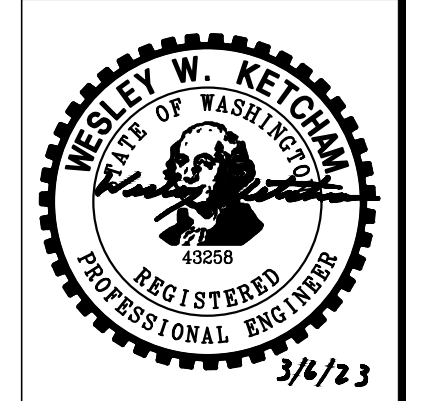
E-0.1
 OF 27

EXISTING CONDUIT AND CONDUCTOR SCHEDULE					
	FROM	TO	CONDUIT SIZE	CONDUCTORS	NOTES
①	UTILITY TRANSFORMER VAULT	BUILDING A MAIN ELECTRICAL ROOM	NOTE 1	NOTE 1	UTILITY POWER FEED TO BUILDING A
②	UTILITY POLE	BUILDING A MAIN ELECTRICAL ROOM	4" (1)	UNKNOWN	ZIPLY COMMUNICATIONS SERVICE TO BUILDING A
③	BUILDING A MAIN ELECTRICAL ROOM	BUILDING B WEST EXTERIOR WALL	NOTE 1	NOTE 1	BUILDING B GENERATOR FEED TO BUILDING A
④	BUILDING A MAIN ELECTRICAL ROOM	BUILDING B WEST EXTERIOR WALL	1"	8#14	GENERATOR CONTROL AND MONITORING FROM BUILDING A
⑤	BUILDING A MAIN ELECTRICAL ROOM	BUILDING B WEST EXTERIOR WALL	2"	-	SPARE
⑥	BUILDING A MAIN ELECTRICAL ROOM	BUILDING B WEST EXTERIOR WALL	2"	24#16	BUILDING B FIRE ALARM CIRCUITS TO FACP IN BUILDING A
⑦	BUILDING A MAIN ELECTRICAL ROOM	BUILDING B WEST EXTERIOR WALL	2"	-	SPARE
⑧	BUILDING A MAIN ELECTRICAL ROOM	BUILDING B WEST EXTERIOR WALL	2"	2-3/C#20 + 3-2/C#18 + COAX	BUILDING B SECURITY
⑨	BUILDING A MAIN ELECTRICAL ROOM	BUILDING B WEST EXTERIOR WALL	2"	8-2C#18	UNKNOWN LOW VOLTAGE CABLING



- GENERAL NOTES:**
- EXISTING UNDERGROUND UTILITIES AND CONDUIT ROUTING IS APPROXIMATE. CONTRACTOR SHALL VERIFY AS NEEDED. EXISTING CONDUIT NUMBER AND SIZE ARE FROM PATH ENGINEERS INC. NORTHSHORE UTILITY DISTRICT SERVICE CENTER PROJECT CIRCA 1997. CONTRACTOR SHALL VERIFY. EXISTING CONDUCTOR NUMBER AND SIZE IS FROM PATH ENGINEERS INC. NORTHSHORE UTILITY DISTRICT SERVICE CENTER PROJECT CIRCA 1997. CONTRACTOR SHALL VERIFY TYPES AND SIZES OF EXISTING CONDUCTORS AND CABLES LISTED BELOW AND THEIR TERMINATIONS SHALL BE DOCUMENTED BY THE CONTRACTOR. CONTRACTOR SHALL PROVIDE NEW CONDUCTORS AND CABLES THAT MATCH EXISTING TYPE AND NUMBER AND TERMINATE TO MATCH EXISTING.
 - THE POWER COMPANY IS PUGET SOUND ENERGY. CONTRACTOR SHALL COORDINATE AS NEEDED WITH THE POWER COMPANY TO HAVE THE ELECTRICAL SERVICE DE-ENERGIZED/ENERGIZED AND PAY ANY ASSOCIATED POWER COMPANY CHARGES. ALL POWER OUTAGES SHALL BE COORDINATED WITH THE OWNER.
 - THE INTERNET SERVICE PROVIDER IS ZIPLY. CONTRACTOR SHALL COORDINATE AS NEEDED WITH THE INTERNET SERVICE PROVIDER TO HAVE THE INTERNET CONNECTION DISCONNECTED/CONNECTED AND PAY ANY ASSOCIATED INTERNET SERVICE PROVIDER CHARGES. ALL INTERNET SERVICE OUTAGES SHALL BE COORDINATED WITH THE OWNER.

- NOTES:**
- SEE ONE LINE DIAGRAM ON SHEET E-6.0 FOR CONDUIT AND CONDUCTOR SIZING.
 - CONDUCTOR TYPES AND QUANTITIES ARE APPROXIMATE. VERIFY CONDUCTOR TYPES, QUANTITIES, AND TERMINATION POINTS PRIOR TO DEMOLITION. REPLACE CONDUCTORS WITH LIKE KIND AND RETERMINATE TO RESTORE ALL EXISTING FUNCTIONALITY.
 - APPROXIMATE LOCATION OF CONDUIT ENTRY OR TRANSITION TO ROUTING UNDER BUILDING. CONDUITS ARE ROUTED TO THE ELECTRICAL/MECHANICAL ROOM, ROOM No. 64. CONTRACTOR SHALL REMOVE EXISTING UTILITY SERVICE CONDUCTORS AND EXISTING COMMUNICATION CABLES. INTERCEPT CONDUITS NEAR BUILDING AND PROVIDE CONDUIT EXPANSION CONNECTIONS PER DETAIL 2 ON E-5.0. PROVIDE NEW UTILITY POWER CONDUCTORS PER ONE LINE DIAGRAM ON SHEET E-6.0. COORDINATE WITH ZIPLY FOR REVISED COMMUNICATIONS CABLING REQUIREMENTS.
 - APPROXIMATE LOCATION OF CONDUIT ENTRY OR TRANSITION TO ROUTING UNDER BUILDING. CONDUITS ARE ROUTED TO THE ELECTRICAL/MECHANICAL ROOM, ROOM No. 64. CONTRACTOR SHALL REMOVE EXISTING CONDUCTORS AND CABLES. INTERCEPT CONDUITS NEAR BUILDING AND PROVIDE CONDUIT EXPANSION CONNECTIONS PER DETAIL ON E-5.0. PROVIDE NEW GENERATOR POWER FEEDER PER THE ONE LINE DIAGRAM ON SHEET E-6.0. PROVIDE NEW LOW VOLTAGE AND CONTROL CIRCUITS TO MATCH EXISTING.
 - APPROXIMATE LOCATION OF CONDUIT TRANSITION FROM UNDERGROUND TO BUILDING WALL. THE GENERATOR CONDUITS ARE ROUTED TO THE GENERATOR ROOM, THE LOW VOLTAGE CABLES/SPARE CONDUITS ARE ROUTED TO ROOM NO. 103, APPROXIMATELY 250' EAST OF THE CONDUIT PENETRATIONS IN THE WEST WALL. CONTRACTOR SHALL REMOVE EXISTING CONDUCTORS AND CABLES. INTERCEPT CONDUITS NEAR BUILDING AND PROVIDE CONDUIT EXPANSION CONNECTIONS PER DETAIL 2 ON E-5.0. PROVIDE NEW GENERATOR POWER FEEDER PER THE ONE LINE DIAGRAM ON SHEET E-6.0. PROVIDE NEW LOW VOLTAGE AND CONTROL CIRCUITS TO MATCH EXISTING.



NO	BY	APPD	REVISION	DATE

WARNING
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Gray & Osborne, Inc.
CONSULTING ENGINEERS

DESIGNED BY	WWK
DRAWN BY	DYA
CHECKED BY	WWK
APPROVAL	WWK
DATE	MAR. 2023

NORTHSHORE UTILITY DISTRICT
WATER SEWER

6830 NE 185th St. P.O. Box 82489
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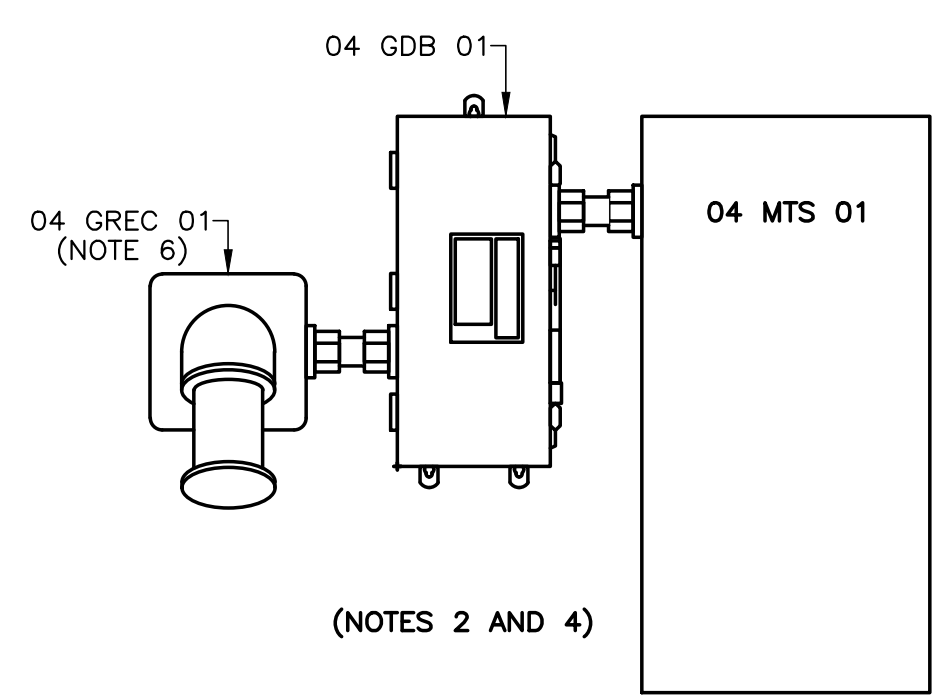
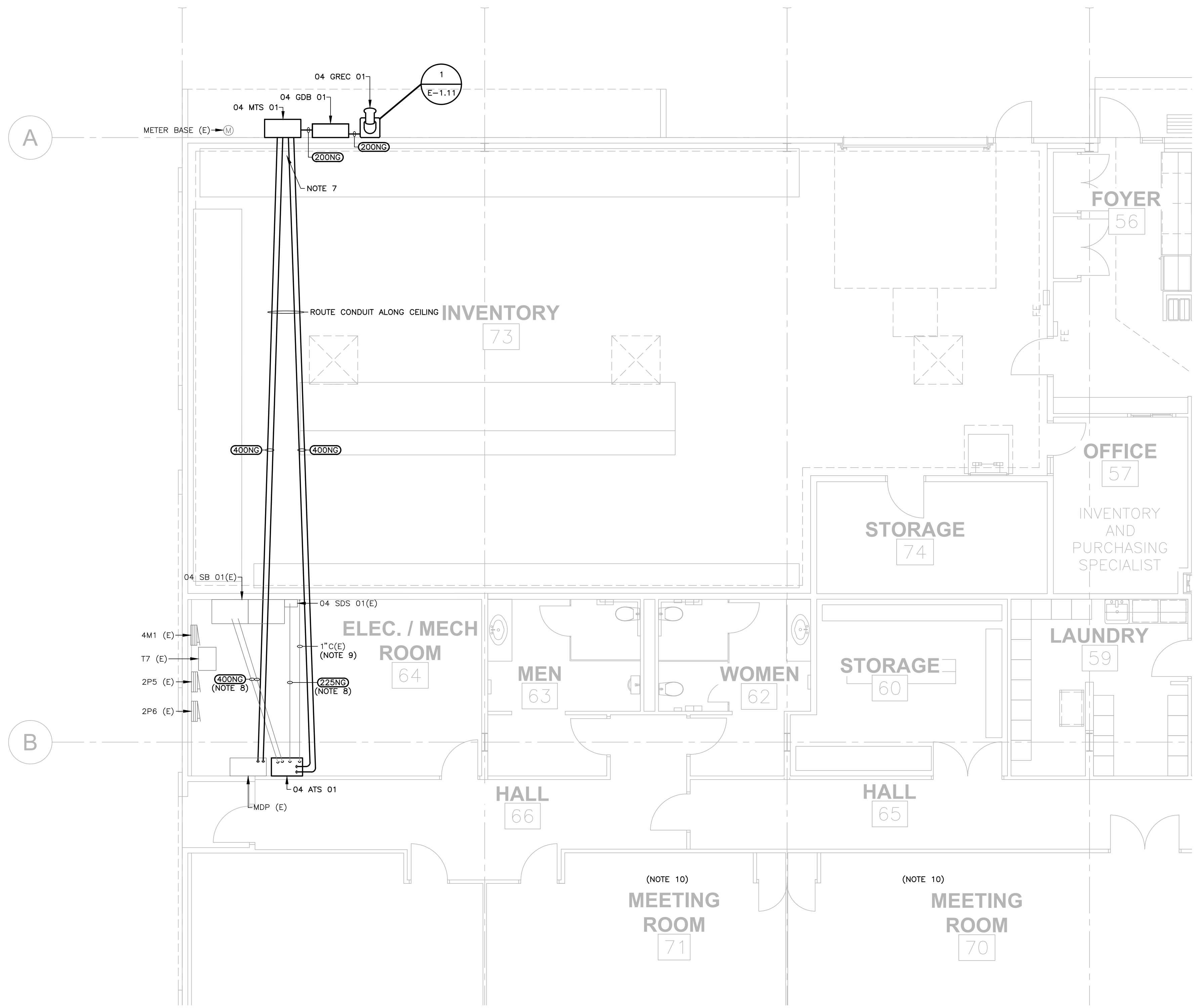
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CONTRACT 2021-03
BUILDING A IMPROVEMENTS

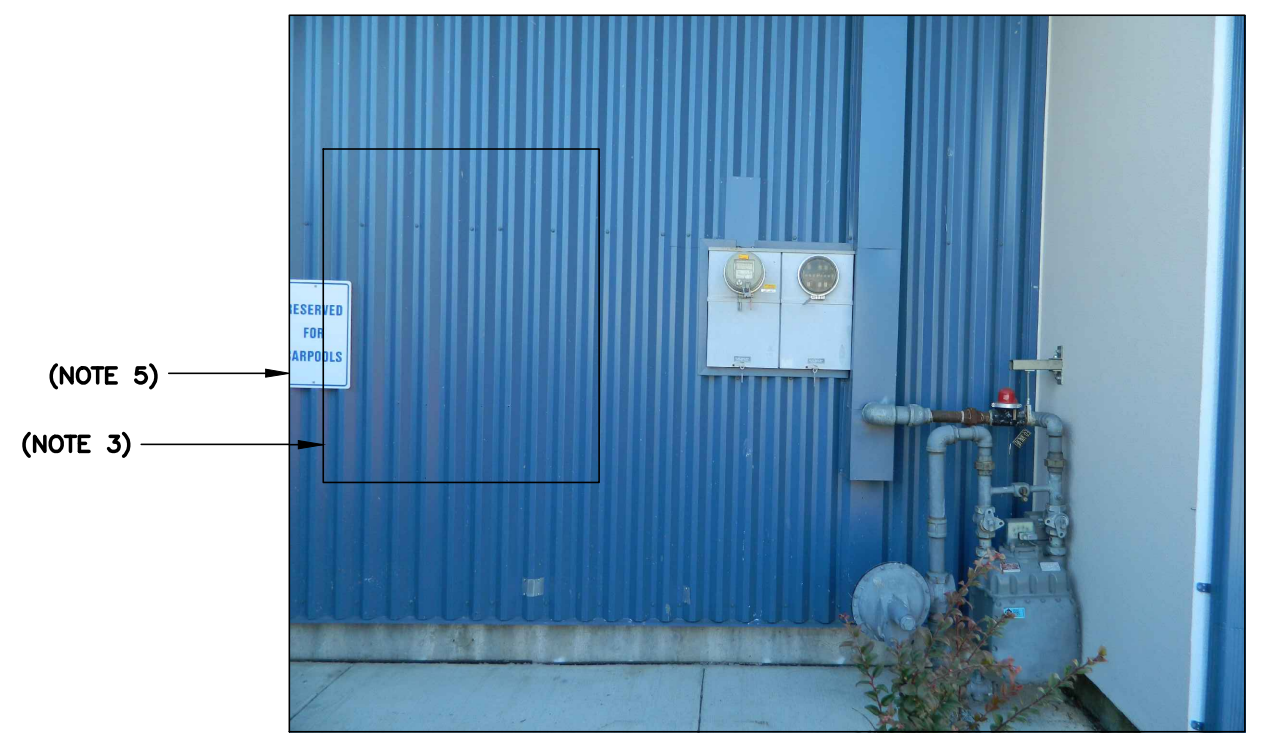
SITE ELECTRICAL CONNECTION PLAN

SHEET

E-1.1
OF 27



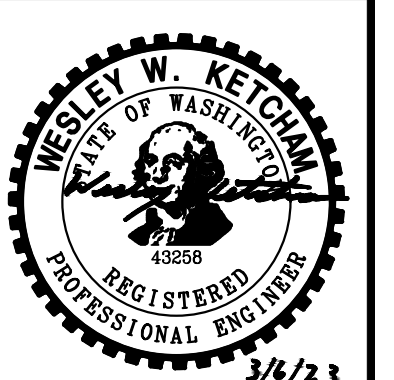
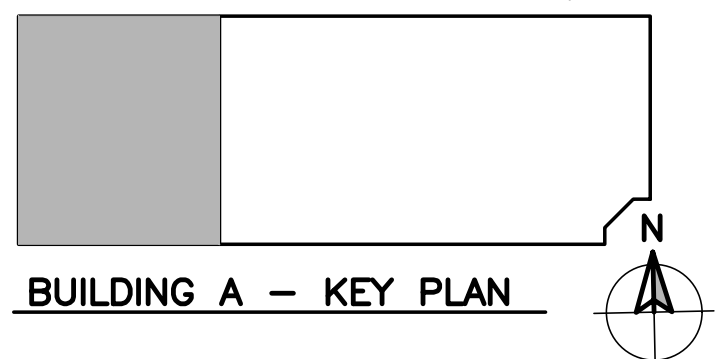
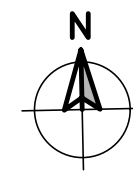
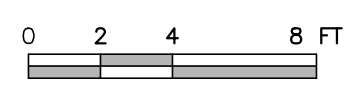
1 PORTABLE GENERATOR CONNECTION ELEVATION
E-1.11 SCALE: NONE



- GENERAL NOTES:
- A. ITEMS SHOWN BACKGROUND COLOR (GRAY) ARE EXISTING TO REMAIN. ITEMS SHOWN IN FOREGROUND (GOLD) ARE NEW OR EXISTING ITEMS TO BE MODIFIED AS PART OF THIS PROJECT. ITEMS SHOWN IN FOREGROUND ARE NEW UNLESS NOTED OTHERWISE.
 - B. THIS SITE PLAN IS DEVELOPED BASED ON INFORMATION GATHERED FROM PATH ENGINEERS INC. NORTHSORE UTILITY DISTRICT SERVICE CENTER PROJECT CIRCA 1997 AND GRAY & OSBORNE NORTHSORE UTILITY DISTRICT HEADQUARTERS REDEVELOPMENT PROJECT CIRCA 2012 AND FIELD INVESTIGATION. CONTRACTOR SHALL VERIFY AS NEEDED.
 - C. NEW TAGS ARE ASSIGNED TO SOME EXISTING EQUIPMENT, FOR EASY IDENTIFICATION AND REFERENCE. ALL EXISTING EQUIPMENT AND CONDUITS ENDS WITH A SUFFIX (E).
 - D. SEE ONE LINE DIAGRAM ON SHEET E-6.0 AND CONDUIT SCHEDULE ON SHEET E-0.1 FOR CONDUIT AND CONDUCTOR REQUIREMENTS.

- NOTES:
- 1. ALL OUTDOOR CONNECTIONS TO EQUIPMENT SHALL BE MADE USING MEYERS HUBS.
 - 2. THE TOP OF "02 GDB 01" AND "02 MTS 01" SHALL BE MOUNTED NO MORE THAN 6'-6" ABOVE GRADE. MOUNT RECEPTACLE "02 GREC 01" AS HIGH ABOVE GRADE AS POSSIBLE TO FACILITATE CONNECTION.
 - 3. INSTALL IN THE GENERAL AREA INDICATED, COORDINATE EXACT LOCATION WITH THE OWNER AND MAINTAIN CLEARANCE REQUIREMENTS BY UTILITY COMPANIES (ELECTRIC AND GAS) INVOLVED.
 - 4. ELECTRICAL EQUIPMENT MOUNTED TO EXTERIOR USING 304 STAINLESS STEEL UNI-STRUT. ALL EXTERIOR MOUNTING HARDWARE SHALL BE 316 STAINLESS STEEL.
 - 5. DELIVER SIGN TO OWNER.
 - 6. THE GENERATOR RECEPTACLE SHALL BE CROUSE-HINDS CAT# AREX40418 S22 TO MAINTAIN COMPATIBILITY WITH OWNERS EXISTING PORTABLE GENERATOR.
 - 7. ROUTE CONDUITS DOWN THE INTERIOR WALL. THEN PENETRATE THE EXTERIOR WALL INTO THE BACK OF THE MTS.
 - 8. RECONNECT EXISTING CONDUIT AND CONDUCTORS IN NEW ATS.
 - 9. PROVIDE NEW GENERATOR CONTROL AND MONITORING CONDUCTORS BETWEEN NEW "04 ATS 01" AND AND EXISTING "05 GEN 01". MATCH EXISTING (DEMOLISHED) CONDUCTOR QUANTITY AND TYPE. RETERMINATE CONDUCTORS TO MATCH EXISTING OPERATION.
 - 10. COORDINATE WITH OWNER'S REQUIREMENTS AND PROVIDE TEMPORARY POWER PER SPECIFICATIONS SECTION-01520.

BUILDING A -- WEST ELECTRICAL POWER PLAN
SCALE: 3/16" = 1'-0"

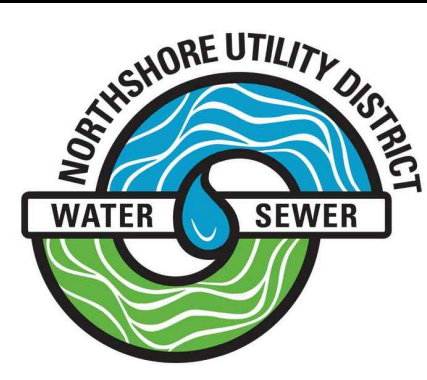


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WARNING
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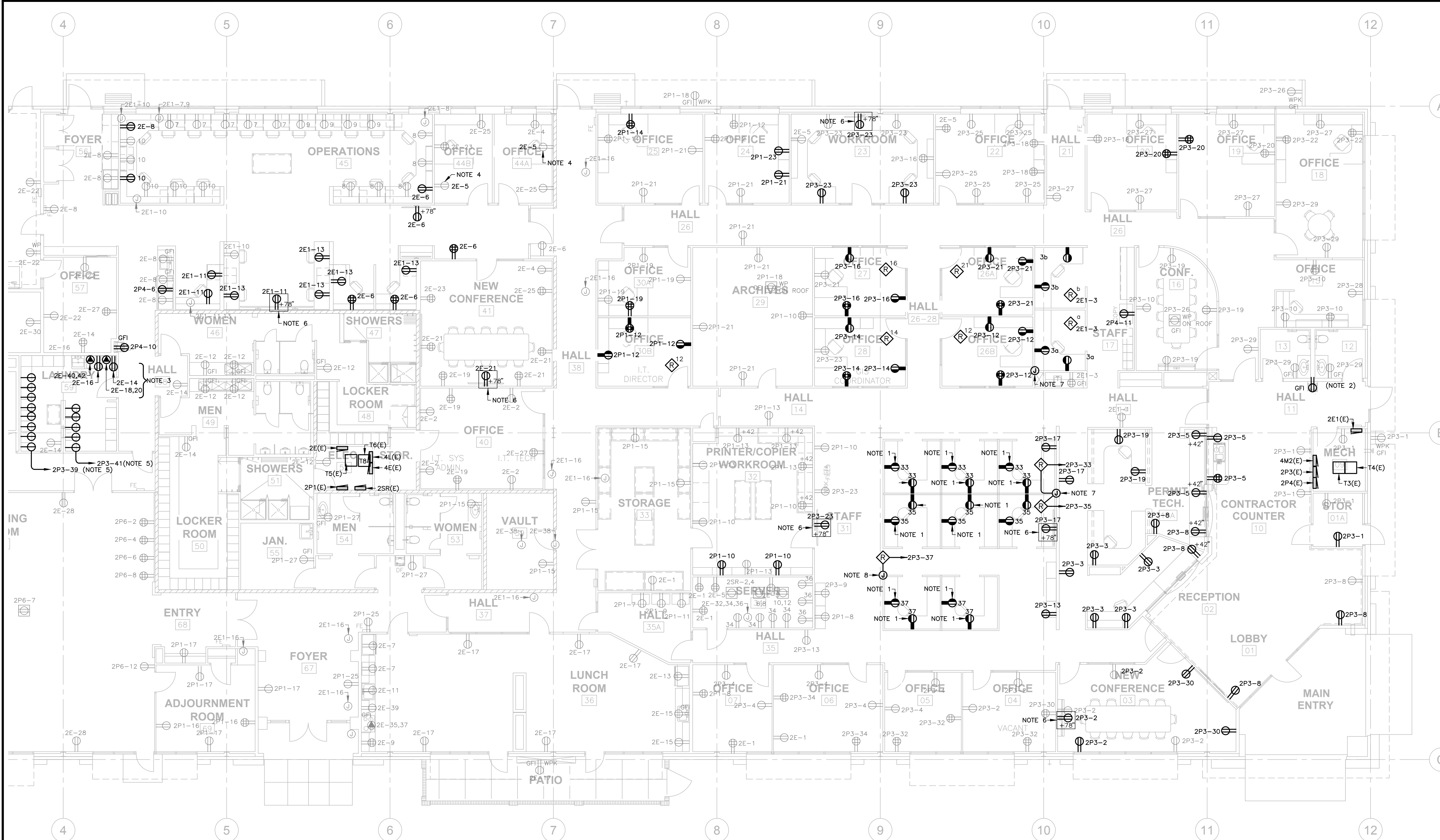
DESIGNED BY	WWK
DRAWN BY	DYA
CHECKED BY	WWK
APPROVAL	WWK
DATE	MAR. 2023



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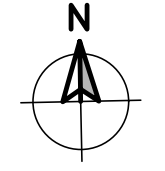
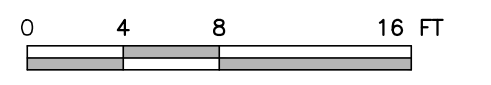
CONTRACT 2021-03
BUILDING A IMPROVEMENTS
**BUILDING A - WEST
ELECTRICAL POWER PLAN**

SHEET
E-1.11
OF 27

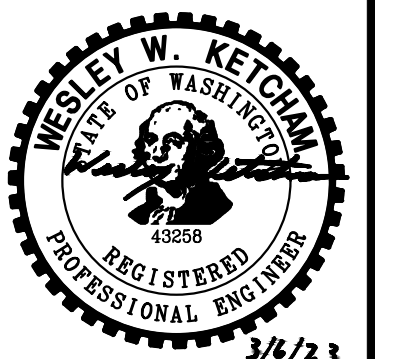


- GENERALS NOTES:**
- A. ELECTRICAL ITEMS SHOWN IN BACKGROUND COLOR (GRAY) ARE EXISTING TO REMAIN. ITEMS SHOWN IN FOREGROUND (BOLD) ARE NEW OR EXISTING ITEMS TO BE MODIFIED AS PART OF THIS PROJECT.
 - B. EXISTING RECEPTACLE BRANCH CIRCUIT NUMBERS IS AS PROVIDED BY THE OWNER. CONTRACTOR SHALL VERIFY AS NEEDED BEFORE PERFORMING MODIFICATIONS. EXISTING RECEPTACLE LOCATIONS MAY BE HAMPERED AFTER IMPROVEMENT MODIFICATIONS, FOR EASY ACCESS TO SUCH RECEPTABLES, CONTRACTOR SHALL ADJUST EXISTING RECEPTACLE LOCATIONS AND EXTEND/SHORTEN CONDUITS AND CONDUCTORS AS NEEDED AND PROVIDE NEW CONDUCTORS TO THE CLOSEST SPICE POINT AND REPAIR WALLS TO MATCH EXISTING.
 - C. PROVIDE GROUND FAULT CIRCUIT INTERRUPTING PROTECTION FOR APPLIANCES SUCH AS WATER FOUNTAINS, ICE MAKER AND OTHERS REQUIRED BY SECTION 422.5 (A) OF THE NEC.
 - D. ALL EXPOSED CONDUIT SHALL BE EMT AND PAINTED TO MATCH THE SURFACE THEY ARE ROUTED ON.
 - E. ALL WALL PENETRATIONS SHALL BE CORE-DRILLED, CAULKED AND SEALED TO MAINTAIN FIRE AND WATERPROOF RATING. PATCH, REPAIR, AND PAINT TO MATCH EXISTING.
 - F. CONTRACTOR SHALL CONCEAL CONDUITS WHEREVER POSSIBLE. CONTRACTOR SHALL SUBMIT TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL ALL ROUTING OF EXPOSED CONDUIT PRIOR TO ROUGH-IN. NO EXPOSED CONDUIT SHALL BE INSTALLED UNTIL APPROVAL IS PROVIDED IN WRITING FROM THE ARCHITECT/ENGINEER.
 - G. INSTALL NEW AND RELOCATED RECEPTABLES FLUSH WITH WALLS. INSTALL WALL RECEPTABLES AT 18" ABOVE THE FLOOR, UNLESS NOTED OTHERWISE. INSTALL DRINKING FOUNTAINS RECEPTABLES DIRECTLY UNDER DEVICE AS HIGH AS PRACTICAL.
 - H. FOR CONTROLLED RECEPTACLE WIRING SEE 1/E6.5.
- NOTES:**
- 1. RECEPTABLES MOUNTED IN MODULAR FURNITURE.
 - 2. RECEPTACLE IS RELOCATED FROM OPPOSITE WALL, PANELBOARD AND BRANCH CIRCUIT ARE NOT KNOWN.
 - 3. COORDINATE POWER OUTLET MOUNTING HEIGHT WITH OWNER'S NEW STACKED MACHINES.
 - 4. NOTE USED.
 - 5. SIMPEX RECEPTACLE FOR OWNER PROVIDED BOOT DRYERS. WALL MOUNT BEHIND LOCKERS. COORDINATE MOUNTING HEIGHT WITH LOCKERS LOWER SECTION.
 - 6. PROVIDE FSB MODEL PWB-100 WALL BOX FOR FLAT PANEL DISPLAYS. INSTALL RECEPTACLE IN AC OUTLET SIDE OF WALL BOX.
 - 7. PROVIDE DEVICE BOX IN WALL TO FEED RECEPTABLES IN MODULAR FURNITURE.
 - 8. ROUTE CIRCUITS TO RECEPTABLES IN MODULAR FURNITURE THROUGH FROM CEILING THROUGH POWER POLE.

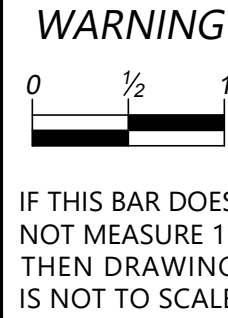
BUILDING A - EAST ELECTRICAL POWER PLAN
SCALE: 1/8" = 1'-0"



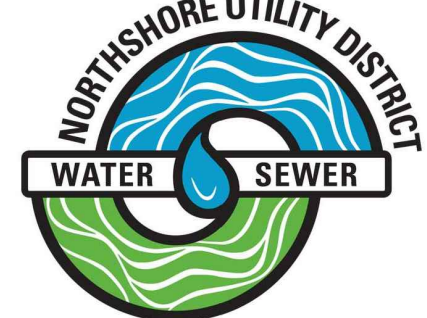
BUILDING A - KEY PLAN



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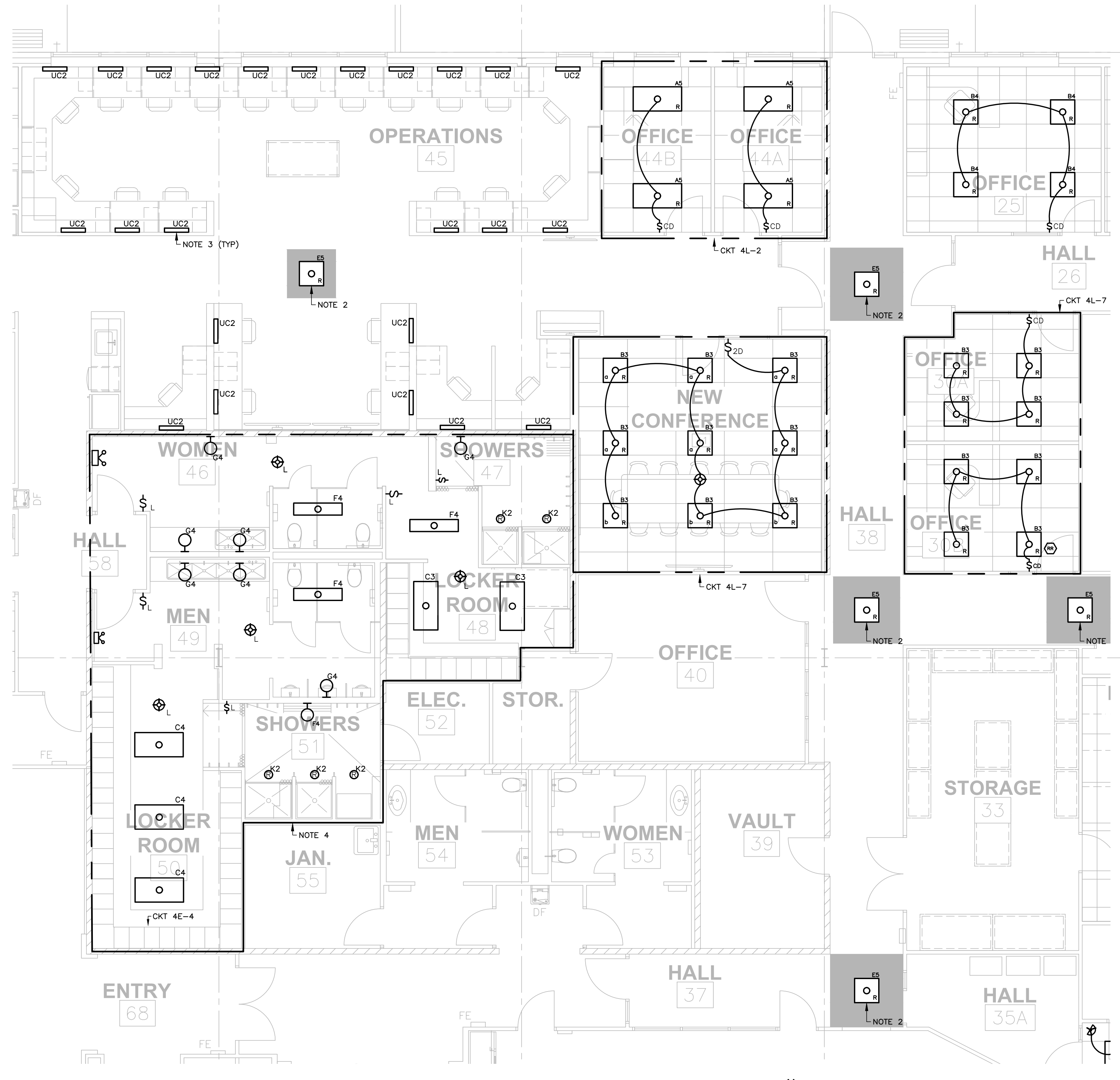
DESIGNED BY	WWK
DRAWN BY	DYA
CHECKED BY	WWK
APPROVAL	WWK
DATE	MAR. 2023



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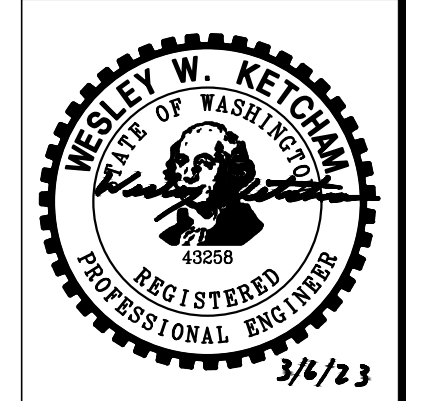
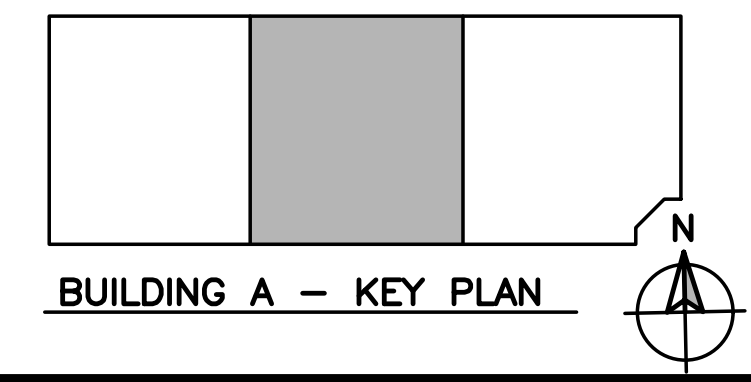
CONTRACT 2021-03
BUILDING A IMPROVEMENTS
**BUILDING A - EAST
ELECTRICAL POWER PLAN**

SHEET
E-1.12
OF 27



- GENERAL NOTES:**
- A. LIGHTING CONTROLS BASED ON GE ACUITY CONTROLS nLIGHT SYSTEM. REFER TO LIGHTING CONTROL SCHEDULE ON SHEET E-6.5 FOR LIGHTING CONTROL DEVICE PART NUMBERS.
 - B. PROVIDE UNSWITCHED LINE VOLTAGE POWER TO EACH nLIGHT ENABLED FIXTURE FROM BRANCH CIRCUIT INDICATED ON THIS SHEET. LIGHTING CONTROL DEVICES INTERCONNECT TO nLIGHT ENABLED FIXTURES VIA LOW VOLTAGE PATCH CABLES (SEE NOTE 1 BELOW).
- NOTES:**
1. PROVIDE CAT5e PATCH CABLES BETWEEN LIGHTING CONTROL DEVICES AND nLIGHT ENABLED LIGHT FIXTURES AS SHOWN. PATCH CABLES SHALL BE WHITE IN COLOR TO DIFFERENTIATE LIGHTING CONTROL CABLING FROM HORIZONTAL TELECOMMUNICATIONS CABLING ABOVE GRID CEILING.
 2. CONNECT NEW FIXTURE TO EXISTING SWITCHED HALLWAY LIGHTING CIRCUIT.
 3. CONNECT NEW UNDER CABINET LIGHTS TO EXISTING UNDER CABINET LIGHTING CIRCUIT.
 4. INSTALL NEW FIXTURE IN THE SAME LOCATION AS THE EXISTING FIXTURES UTILIZING THE EXISTING FIXTURE BOXES AND CONDUCTORS.

BUILDING A - CENTRAL LIGHTING PLAN
SCALE: 3/16" = 1'-0"

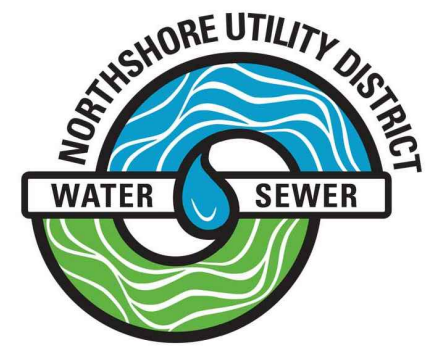


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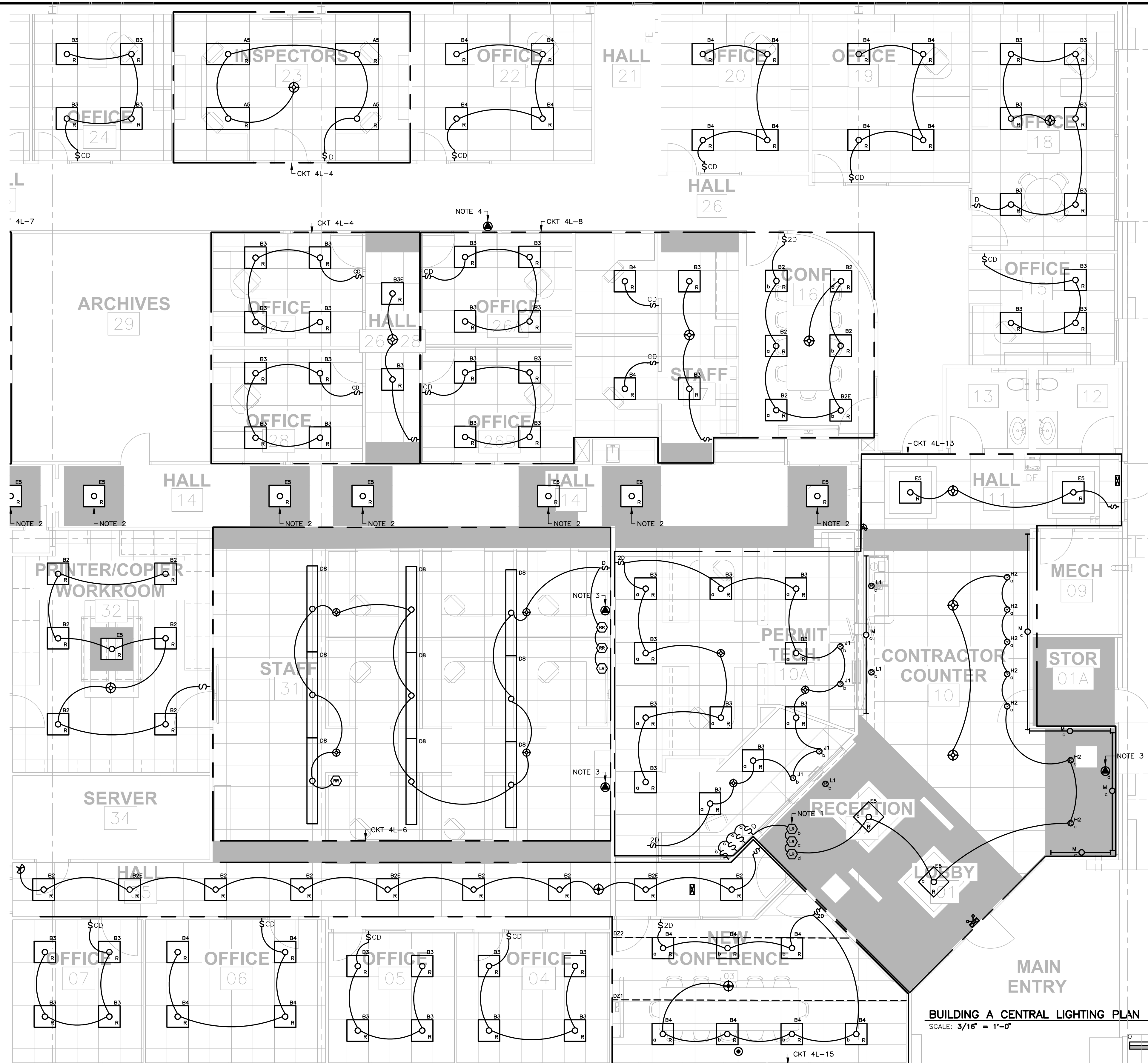
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CONTRACT 2021-03
BUILDING A IMPROVEMENTS
BUILDING A - CENTRAL LIGHTING PLAN

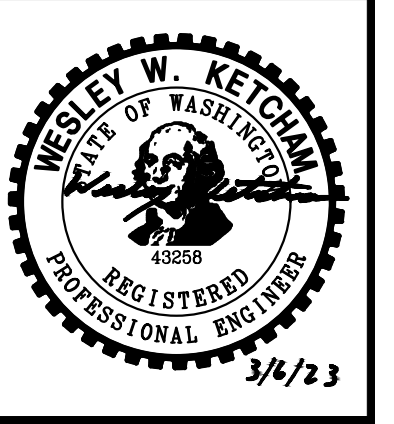
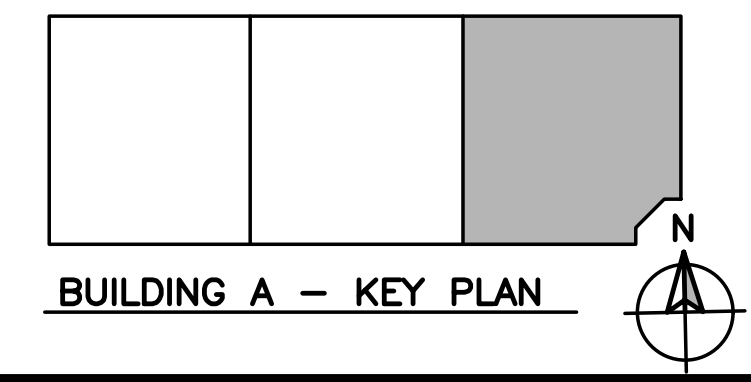
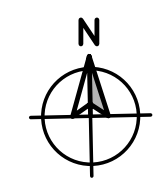
SHEET
E-1.13
OF 27

GENERAL NOTES:

- A. LIGHTING CONTROLS BASED ON GE ACUITY CONTROLS nLIGHT SYSTEM. REFER TO LIGHTING CONTROL SCHEDULE ON SHEET E-6.5 FOR LIGHTING CONTROL DEVICE PART NUMBERS.
 - B. PROVIDE UNSWITCHED LINE VOLTAGE POWER TO EACH nLIGHT ENABLED FIXTURE FROM BRANCH CIRCUIT INDICATED ON THIS SHEET. LIGHTING CONTROL DEVICES INTERCONNECT TO nLIGHT ENABLED FIXTURES VIA LOW VOLTAGE PATCH CABLES (SEE NOTE 1 BELOW).
- NOTES:
- 1. PROVIDE CAT5e PATCH CABLES BETWEEN LIGHTING CONTROL DEVICES AND nLIGHT ENABLED LIGHT FIXTURES AS SHOWN. PATCH CABLES SHALL BE WHITE IN COLOR TO DIFFERENTIATE LIGHTING CONTROL CABLING FROM HORIZONTAL TELECOMMUNICATIONS CABLING ABOVE GRID CEILING.
 - 2. CONNECT NEW FIXTURE TO EXISTING SWITCHED HALLWAY LIGHTING CIRCUIT.
 - 3. SEE WIRING DIAGRAM 2/E-6.5 FOR CIRCUIT CONNECTIONS TO NON-nLIGHT ENABLED FIXTURE IN LOBBY/CONTRACTOR COUNTER AREA.
 - 4. CONNECT ART RAIL LIGHTING TO EXISTING SWITCHED HALLWAY LIGHTING CIRCUIT.
 - 5. PROVIDE LIGHTING CONTROL SWITCHED POWER TO ART RAIL LIGHTING. SEE WIRING DIAGRAM 2/E-6.5.



BUILDING A CENTRAL LIGHTING PLAN
SCALE: 3/16" = 1'-0"

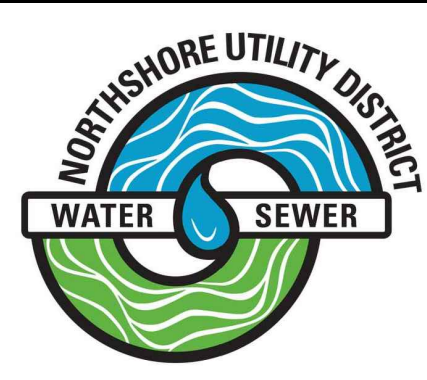


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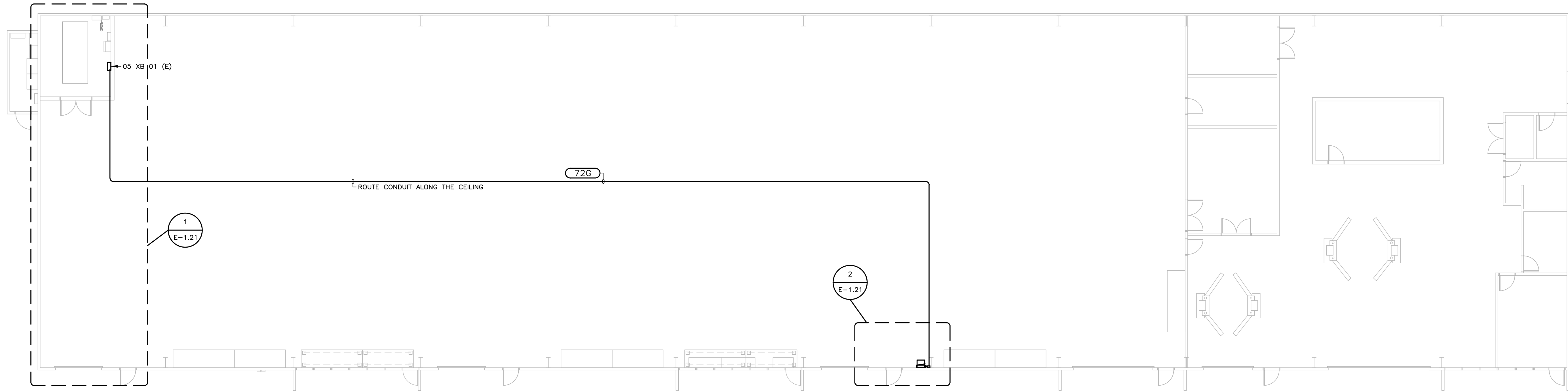
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APPROVAL	WWK
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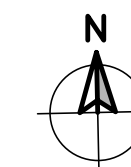
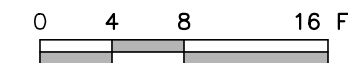
CONTRACT 2021-03
BUILDING A IMPROVEMENTS
**BUILDING A - EAST
LIGHTING PLAN**

SHEET
E-1.14
OF 27



BUILDING B ELECTRICAL PLAN

SCALE: 3/32" = 1'-0"

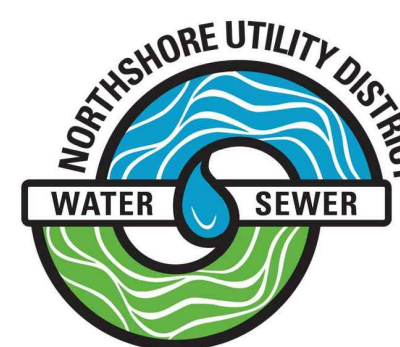


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CONTRACT 2021-03
 BUILDING A IMPROVEMENTS

**BUILDING B
 ELECTRICAL PLAN**

SHEET

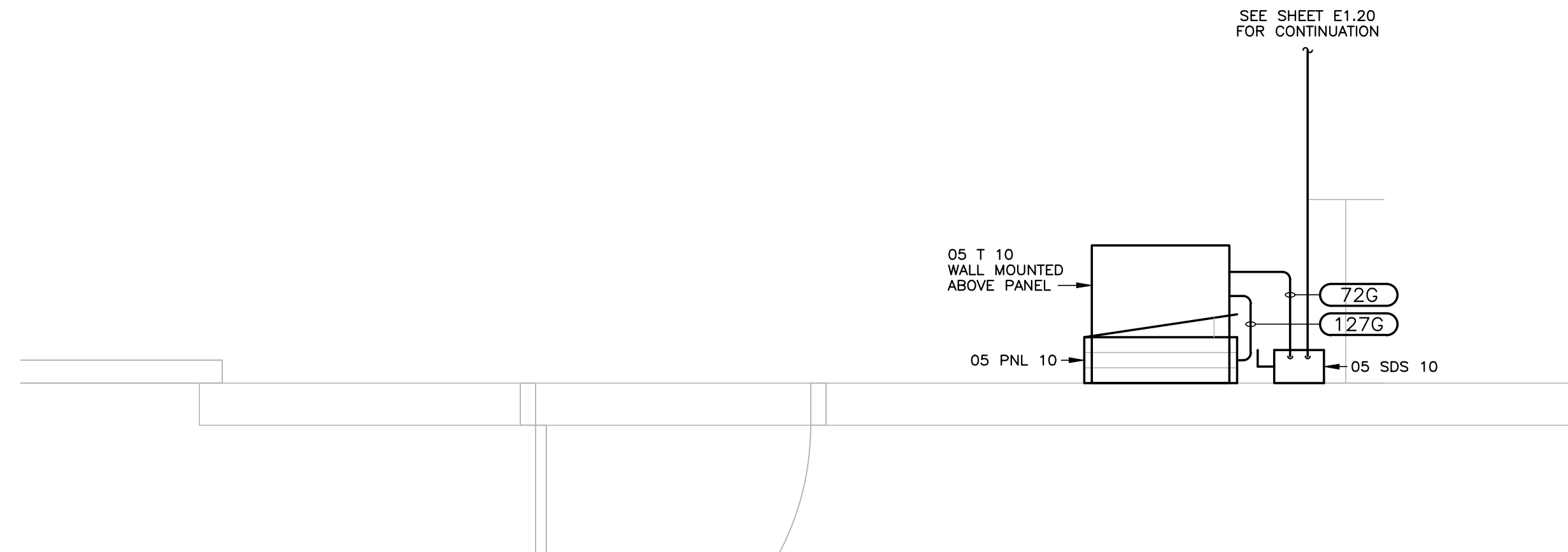
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 OF 27

GENERAL NOTES:

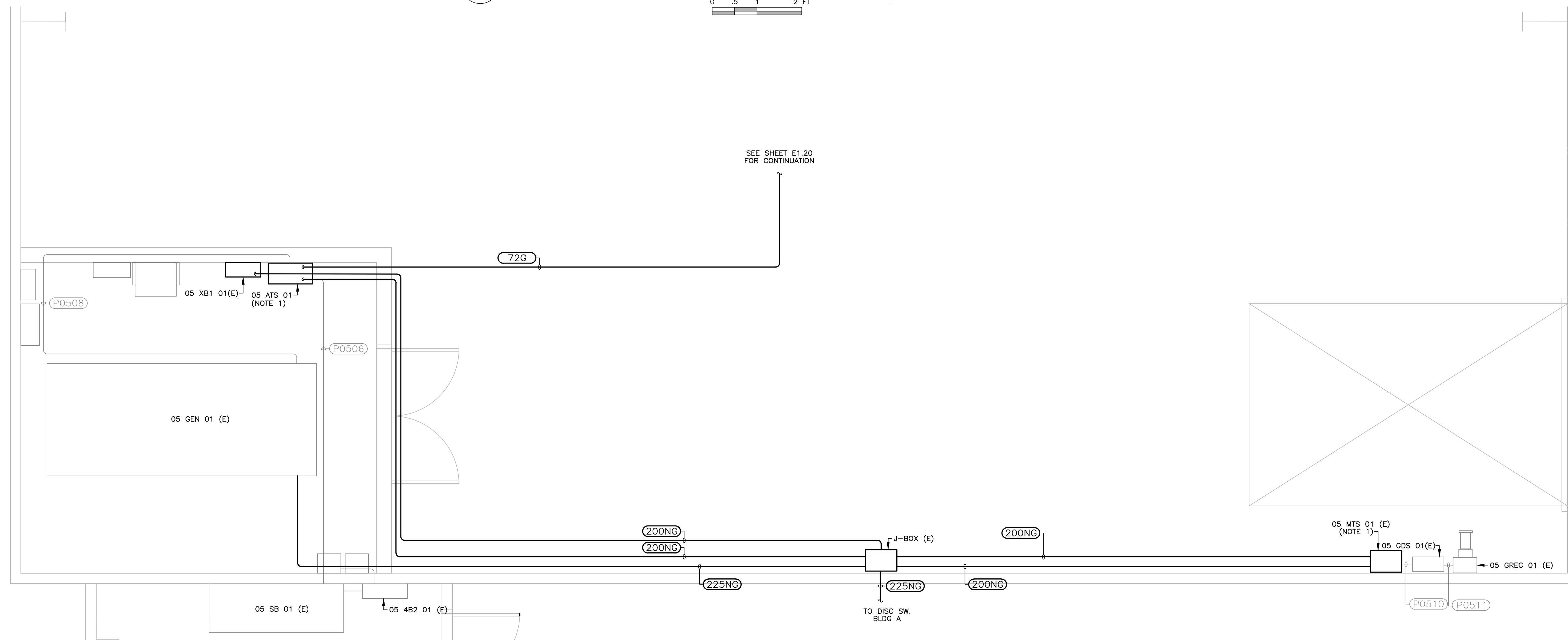
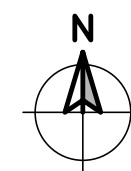
- A. THIS REVISED BUILDING PLAN WAS DEVELOPED FROM AND GRAY & OSBORNE NORTHSHORE UTILITY DISTRICT HEADQUARTERS DEVELOPMENT PROJECT CIRCA 2012. CONTRACTOR SHALL FIELD VERIFY.
- B. ELECTRICAL ITEMS SHOWN IN BACKGROUND COLOR (GRAY) ARE EXISTING TO REMAIN. ITEMS SHOWN IN FOREGROUND (BOLD) ARE NEW OR EXISTING TO BE MODIFIED AS PART OF THIS PROJECT.
- C. SEE REVISED ONE LINE DIAGRAM AND CONDUIT SCHEDULES ON SHEETS E-6.0 AND E-0.1 RESPECTIVELY FOR MODIFICATION DETAILS.

NOTES:

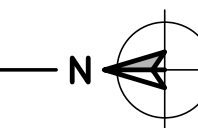
- 1. PROVIDE NEW 4P ATS, RE-TAG AS INDICATED.
- 2. SEE REVISED ONE LINE DIAGRAM ON SHEET E-6.0 FOR CABLE CONNECTION BETWEEN EQUIPMENT.



2 BUILDING B - WEST SIDE ENLARGED ELECTRICAL PLAN
E-1.21 SCALE: 3/4" = 1'-0"



1 BUILDING B - WEST SIDE ENLARGED ELECTRICAL PLAN
E-1.21 SCALE: 3/8" = 1'-0"

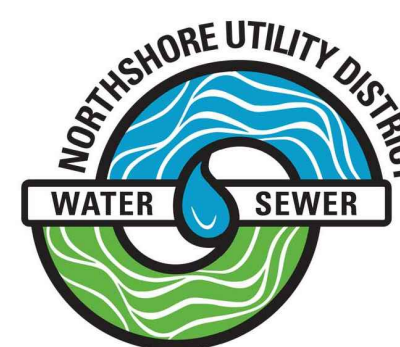


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APPROVAL	WWK
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CONTRACT 2021-03
BUILDING A IMPROVEMENTS

**BUILDING B
ENLARGED ELECTRICAL PLANS**

SHEET

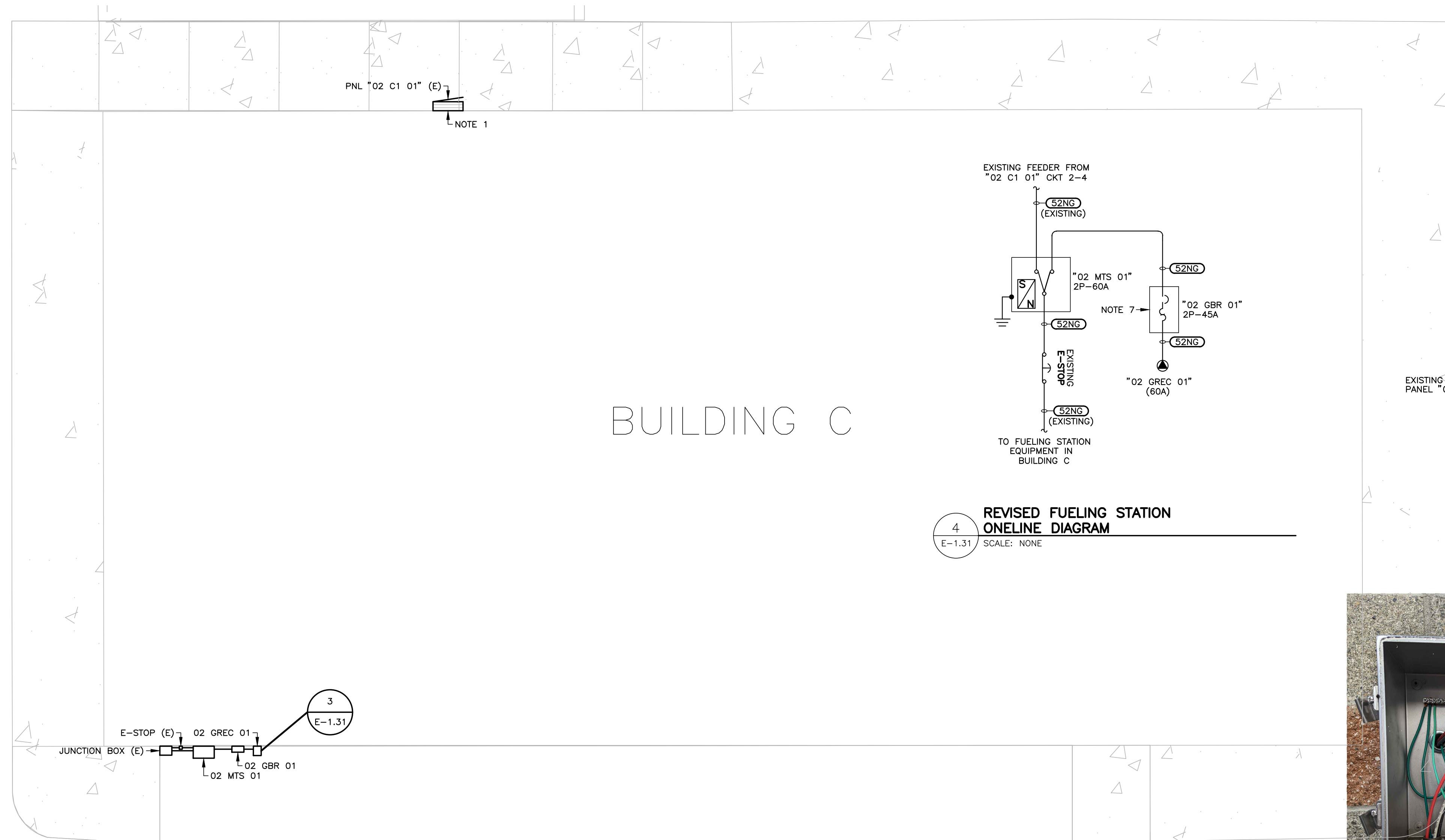
E-1.21
OF 27

GENERALS NOTES:

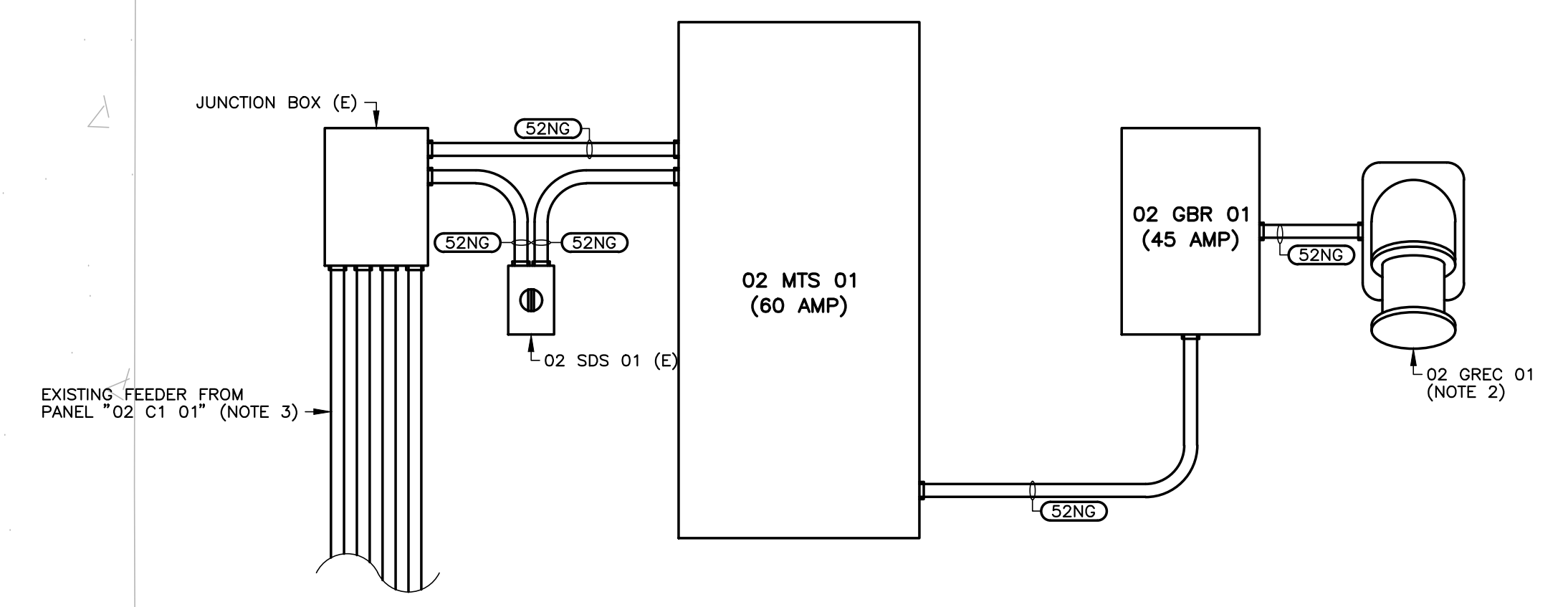
- A. ELECTRICAL ITEMS SHOWN IN BACKGROUND COLOR (GRAY) ARE EXISTING TO REMAIN. ITEMS SHOWN IN FOREGROUND (BOLD) ARE NEW OR EXISTING ITEMS TO BE MODIFIED AS PART OF THIS PROJECT.
- B. ALL OUTDOOR CONNECTIONS TO EQUIPMENT SHALL BE MADE USING MEYERS HUBS.
- C. ELECTRICAL EQUIPMENT MOUNTED TO EXTERIOR USING 304 STAINLESS STEEL UNI-STRUT. ALL EXTERIOR MOUNTING HARDWARE SHALL BE 316 STAINLESS STEEL.

NOTES:

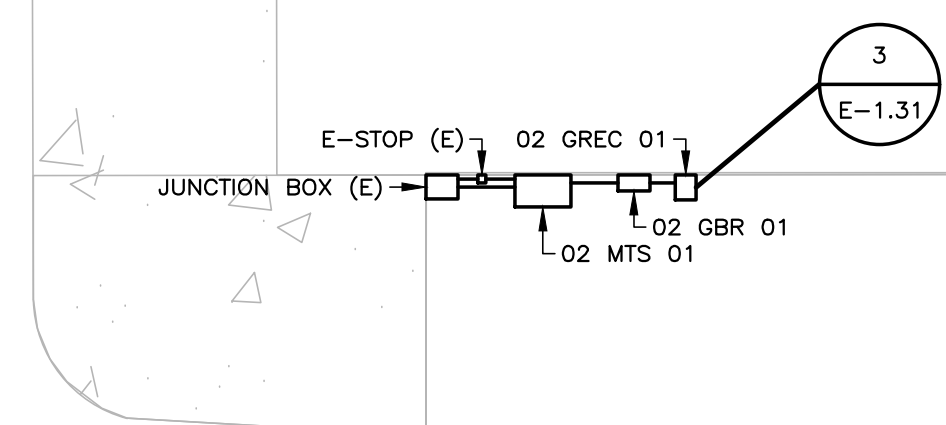
- 1. PRINTED SCHEDULE IN PANEL IS INACCURATE. FIELD INVESTIGATE EXISTING PANEL CIRCUITS AND UPDATE SCHEDULE IN PANEL.
- 2. THE GENERATOR RECEPTACLE SHALL BE CROUSE-HINDS CAT# AREA6313 S22 (60 AMP, 3W-3P, WITH BACK BOX AND ANGLE ADAPTER. FURNISH MATING PLUG, CROUSE-HINDS CAT# APJ6375 S22 TO OWNER.
- 3. FUELING STATION IS FED FROM PANEL "02 C1 01" CKT 2-4.



4 REVISED FUELING STATION ONELINE DIAGRAM
E-1.31 SCALE: NONE

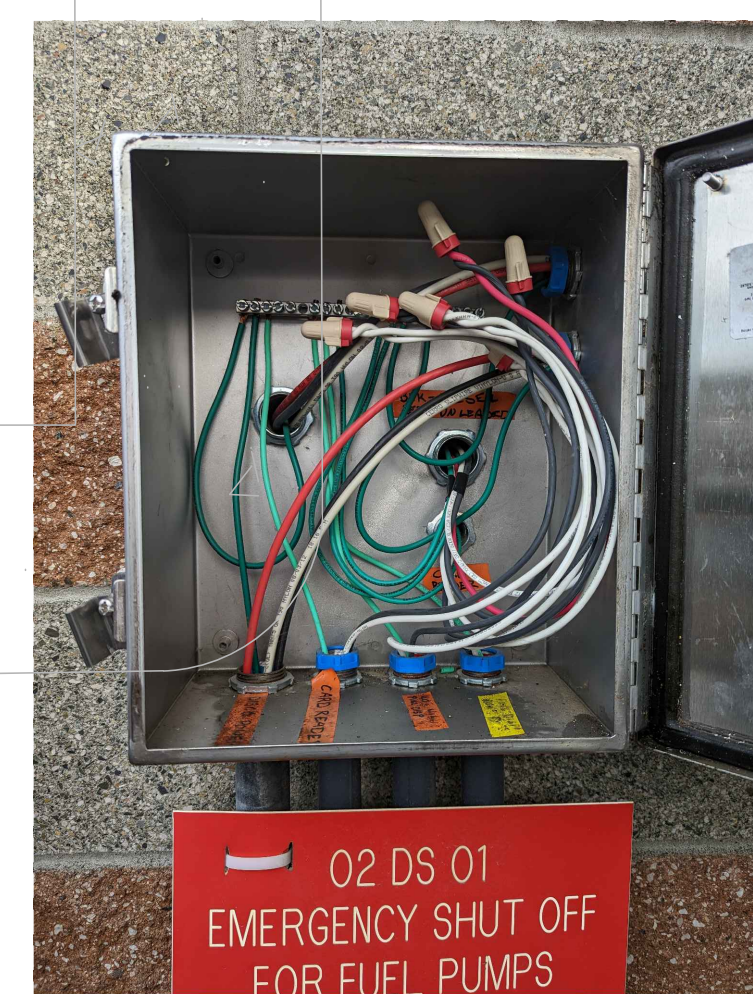
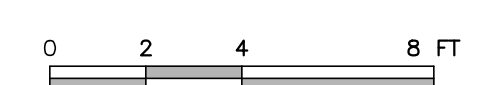


3 PORTABLE GENERATOR CONNECTION ELEVATION
E-1.31 SCALE: NONE



3
E-1.31

BUILDING C - FUELING STATION REVISE POWER PLAN
SCALE: 1/4" = 1'-0"



2 EXISTING FUELING STATION E-STOP
E-1.31 SCALE: NONE



REVISE EXISTING CONDUIT AND WIRE BETWEEN JUNCTION BOX AND E-STOP SWITCH AS REQUIRED



NO	BY	APPD	REVISION	DATE

WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



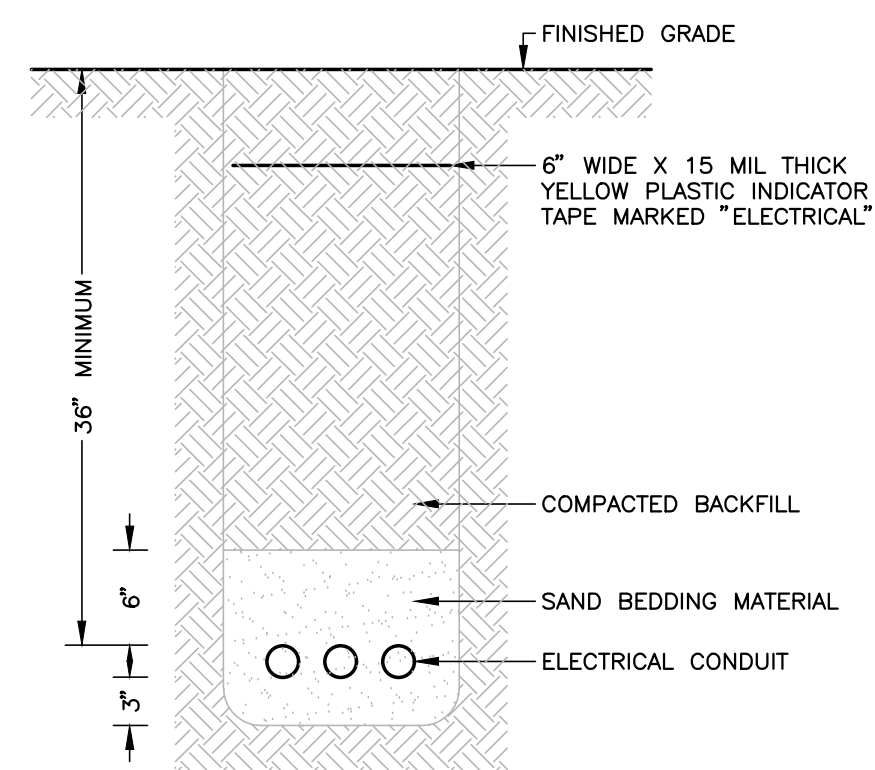
DESIGNED BY	WWK
DRAWN BY	DYA
CHECKED BY	WWK
APPROVAL	WWK
DATE	MAR. 2023



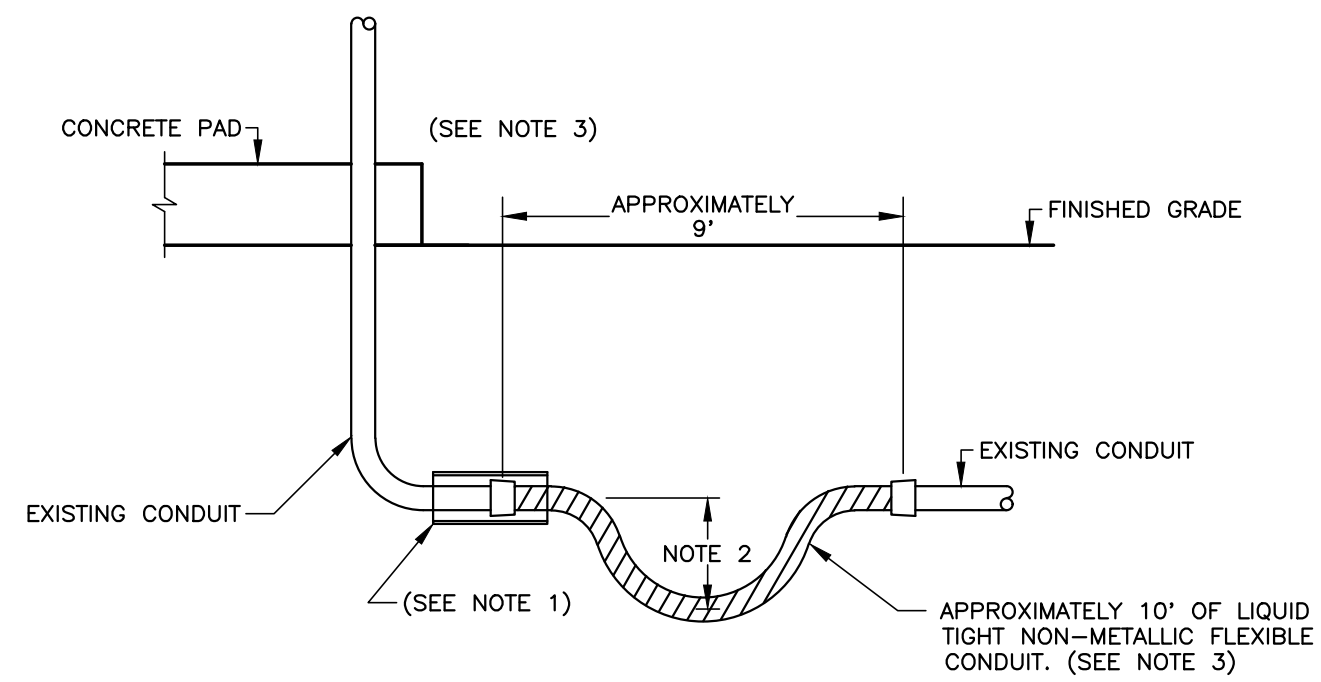
NORTHSHORE UTILITY DISTRICT
6830 NE 185th St. P.O. Box 82489
Kenmore, WA 98028-2684 Kenmore, WA 98028-2684
Ph: (425) 398-4400 | Fax: (425) 398-4430 | www.nud.net

CONTRACT 2021-03
BUILDING A IMPROVEMENTS
**BUILDING C - FUELING STATION
GENERATOR RECEPTACLE**

SHEET
E-1.31
OF 27

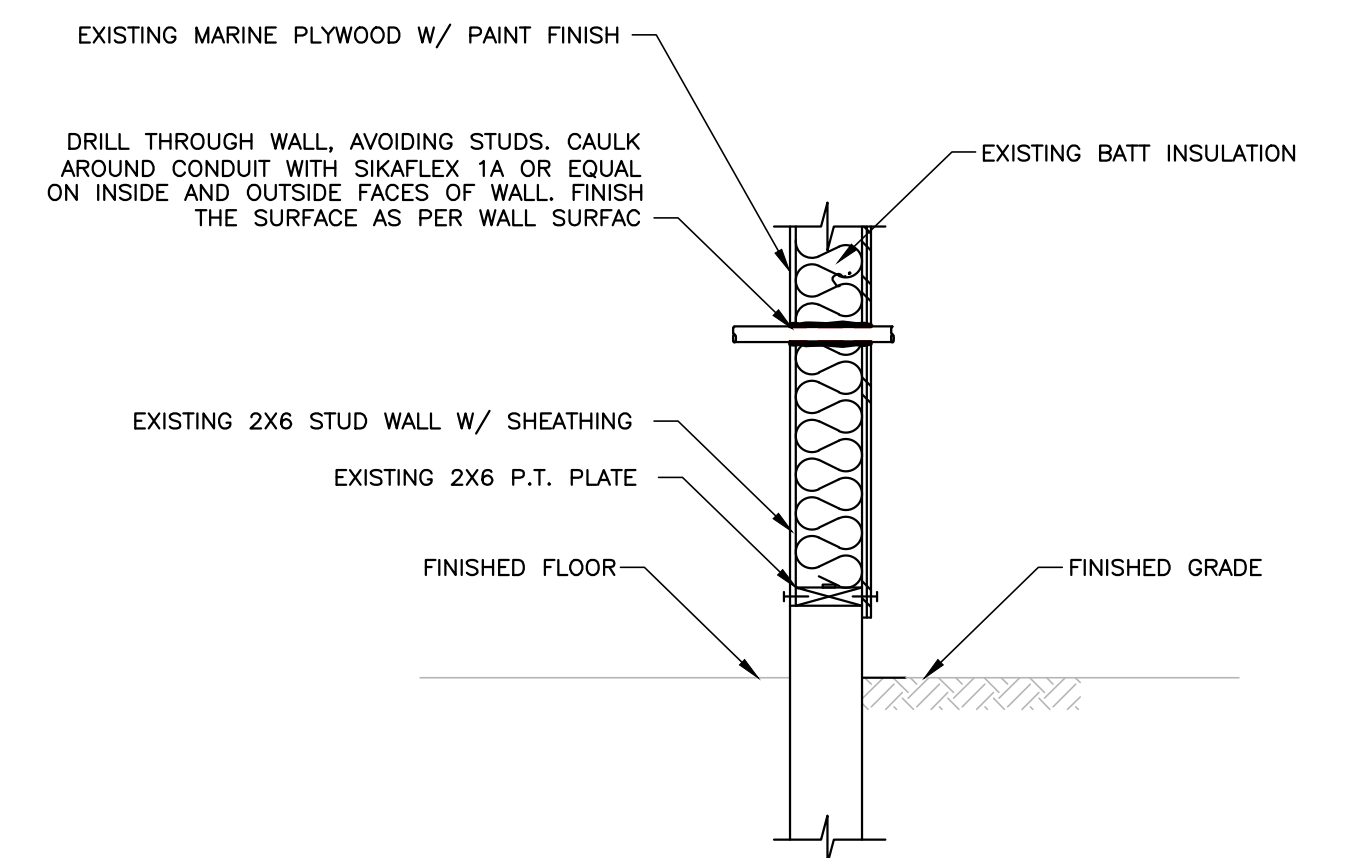


1 TRENCH FOR PRIMARY POWER CIRCUITS
E5.0 SCALE: NONE



- NOTES:
- SCHEDULE 80 PVC SLEEVE TO PROTECT CONNECTOR. WRAP BOTH ENDS OF SLEEVE WITH PROTECTIVE TAPE.
 - APPROXIMATELY 10"–12" OFFSET AT TIME OF INSTALLATION.
 - ADJUST LENGTH AS NEEDED TO FIT BETWEEN STRUCTURES; NOT ALL EXISTING CONDUITS ARE ROUTED THROUGH CONCRETE PADS; CONDUITS MAY BE ROUTED UNDER CONCRETE PAD OR ALONG EXTERIOR WALLS. PROVIDE CONDUIT EXPANSIONS CONNECTIONS AT THE TRANSITION FROM A STRUCTURE OR UNDER A STRUCTURE TO UNDERGROUND. LFMC CONDUIT SIZE SHALL MATCH THE EXISTING CONDUIT SYSTEM THAT IT IS PART OF.

2 CONDUIT EXPANSION LOOP CONNECTIONS
E5.0 SCALE: NONE



3 INDOOR TO OUTDOOR TRANSITION THROUGH STUDS
E5.0 SCALE: NONE

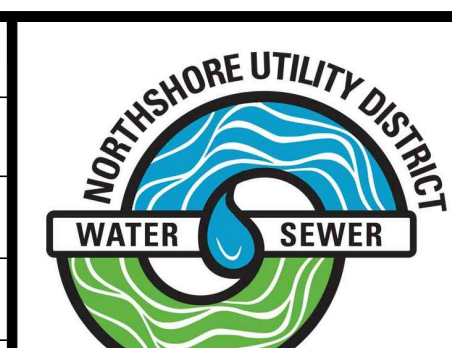


NO	BY	APPD	REVISION	DATE

WARNING
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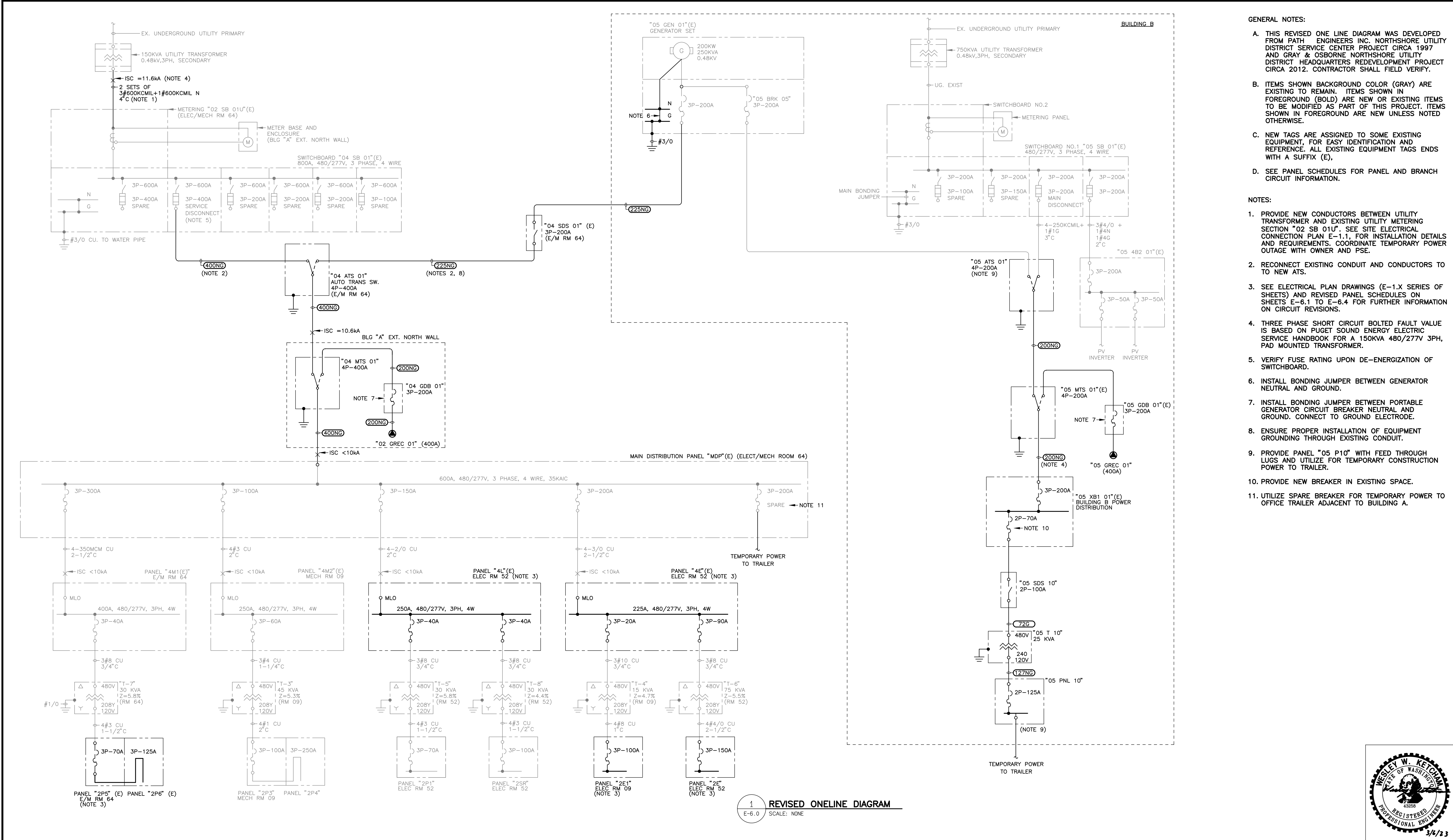
DESIGNED BY	WWK
DRAWN BY	DYA
CHECKED BY	WWK
APPROVAL	WWK
DATE	MAR. 2023



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CONTRACT 2021-03
BUILDING A IMPROVEMENTS
ELECTRICAL DETAILS

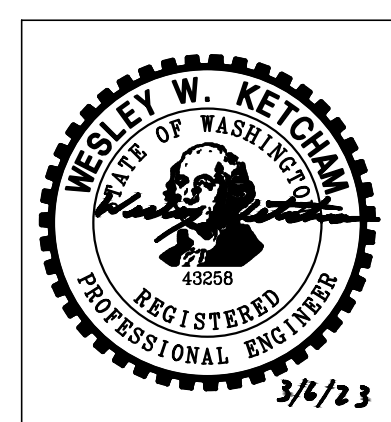
SHEET
E-5.0
OF 27



- GENERAL NOTES:**
- THIS REVISED ONE LINE DIAGRAM WAS DEVELOPED FROM PATH ENGINEERS INC. NORTSHORE UTILITY DISTRICT SERVICE CENTER PROJECT CIRCA 1997 AND GRAY & OSBORNE NORTSHORE UTILITY DISTRICT HEADQUARTERS REDEVELOPMENT PROJECT CIRCA 2012. CONTRACTOR SHALL FIELD VERIFY.
 - ITEMS SHOWN BACKGROUND COLOR (GRAY) ARE EXISTING TO REMAIN. ITEMS SHOWN IN FOREGROUND (BOLD) ARE NEW OR EXISTING ITEMS TO BE MODIFIED AS PART OF THIS PROJECT. ITEMS SHOWN IN FOREGROUND ARE NEW UNLESS NOTED OTHERWISE.
 - NEW TAGS ARE ASSIGNED TO SOME EXISTING EQUIPMENT, FOR EASY IDENTIFICATION AND REFERENCE. ALL EXISTING EQUIPMENT TAGS ENDS WITH A SUFFIX (E).
 - SEE PANEL SCHEDULES FOR PANEL AND BRANCH CIRCUIT INFORMATION.

- NOTES:**
- PROVIDE NEW CONDUCTORS BETWEEN UTILITY TRANSFORMER AND EXISTING UTILITY METERING SECTION "02 SB 01U". SEE SITE ELECTRICAL CONNECTION PLAN E-1.1, FOR INSTALLATION DETAILS AND REQUIREMENTS. COORDINATE TEMPORARY POWER OUTAGE WITH OWNER AND PSE.
 - RECONNECT EXISTING CONDUIT AND CONDUCTORS TO NEW ATS.
 - SEE ELECTRICAL PLAN DRAWINGS (E-1.X SERIES OF SHEETS) AND REVISED PANEL SCHEDULES ON SHEETS E-6.1 TO E-6.4 FOR FURTHER INFORMATION ON CIRCUIT REVISIONS.
 - THREE PHASE SHORT CIRCUIT BOLTED FAULT VALUE IS BASED ON PUGET SOUND ENERGY ELECTRIC SERVICE HANDBOOK FOR A 150KVA 480/277V 3PH, PAD MOUNTED TRANSFORMER.
 - VERIFY FUSE RATING UPON DE-ENERGIZATION OF SWITCHBOARD.
 - INSTALL BONDING JUMPER BETWEEN GENERATOR NEUTRAL AND GROUND.
 - INSTALL BONDING JUMPER BETWEEN PORTABLE GENERATOR CIRCUIT BREAKER NEUTRAL AND GROUND. CONNECT TO GROUND ELECTRODE.
 - ENSURE PROPER INSTALLATION OF EQUIPMENT GROUNDING THROUGH EXISTING CONDUIT.
 - PROVIDE PANEL "05 P10" WITH FEED THROUGH LUGS AND UTILIZE FOR TEMPORARY CONSTRUCTION POWER TO TRAILER.
 - PROVIDE NEW BREAKER IN EXISTING SPACE.
 - UTILIZE SPARE BREAKER FOR TEMPORARY POWER TO OFFICE TRAILER ADJACENT TO BUILDING A.

1 REVISED ONELINE DIAGRAM
E-6.0 SCALE: NONE



NO	BY	APPD	REVISION	DATE

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

Gray & Osborne, Inc.
CONSULTING ENGINEERS

DESIGNED BY: WWK
DRAWN BY: DYA
CHECKED BY: WWK
APPROVAL: WWK
DATE: MAR. 2023

NORTHSHORE UTILITY DISTRICT
WATER SEWER

NORTHSHORE UTILITY DISTRICT
6830 NE 185th St. P.O. Box 82489
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CONTRACT 2021-03
BUILDING A IMPROVEMENTS

REVISED ONELINE DIAGRAM

LOCATION: ELECT RM 52
FED FROM: MAIN DIST. PANEL "MDP" (E)
MOUNTING: SURFACE

EXISTING PANEL SCHEDULE
PANEL "4E"
480/277VOLT, 3 PHASE, 4 WIRE
225 AMP MAIN LUGS ONLY

FACILITY: NUD BLDG A

Section 1 of 1

Ckt #	LOAD DESCRIPTION	Breaker Type	Demand Type	Circuit KVA (AMPS)	KVA (AMPS)			Circuit KVA (AMPS)	Demand Type	Breaker Type	LOAD DESCRIPTION	Ckt #	Note
					Phase A	Phase B	Phase C						
1	Night Lighting	1P-20A	Light	1.56 (5.60)	2.85 (10.28)		1.56 (5.60)	Light	1P-20A	L-Misc.	2		
3	Night Lighting	1P-20A	Light	2.94 (10.62)	5.50 (19.87)		2.94 (10.62)	Light	1P-20A	L-Misc.	4		
5	Time Keeper	1P-20A	Cont.	1.50 (1.81)		2.44 (8.82)	1.50 (1.81)	Light	1P-20A	L-Misc.	6		
7	HP-20 Heat Pump	3P-20A	HVAC	8.00 (9.63)	3.28 (11.85)		8.00 (9.63)	Light	1P-20A	L-Misc.	8		
9	HP-20 Heat Pump	3P-20A	HVAC	8.00 (9.63)	2.67 (9.63)		8.00 (9.63)	Light	1P-20A	Spare	10		
11	HP-20 Heat Pump	3P-20A	HVAC	8.00 (9.63)	2.67 (9.63)		8.00 (9.63)	Light	1P-20A	Spare	12		
13	HP-21 Heat Pump	3P-25A	HVAC	14.04 (16.91)	7.35 (26.54)		8.00 (9.63)	HVAC	3P-20A	HR-19 Heat Pump	14		
15	HP-21 Heat Pump	3P-25A	HVAC	14.04 (16.91)	7.35 (26.54)		8.00 (9.63)	HVAC	3P-20A	HR-19 Heat Pump	16		
17	HP-21 Heat Pump	3P-25A	HVAC	14.04 (16.91)	7.35 (26.54)		8.00 (9.63)	HVAC	3P-20A	HR-19 Heat Pump	18		
19	HP-12 Heat Pump	3P-20A	HVAC	8.00 (9.63)	5.33 (19.27)		8.00 (9.63)	Light	3P-20A	HR-10 Heat Pump	20		
21	HP-12 Heat Pump	3P-20A	HVAC	8.00 (9.63)	5.33 (19.27)		8.00 (9.63)	Light	3P-20A	HR-10 Heat Pump	22		
23	HP-12 Heat Pump	3P-20A	HVAC	8.00 (9.63)	5.33 (19.27)		8.00 (9.63)	Light	3P-20A	HR-10 Heat Pump	24		
25	Transformer "T-4"	3P-20A	Cont.	17.47 (21.04)	20.41 (73.74)		43.76 (52.70)	Cont.	3P-90A	Transformer "T-6"	26		
27	Transformer "T-4"	3P-20A	Cont.	17.47 (21.04)	20.41 (73.74)		43.76 (52.70)	Cont.	3P-90A	Transformer "T-6"	28		
29	Transformer "T-4"	3P-20A	Cont.	17.47 (21.04)	20.41 (73.74)		43.76 (52.70)	Cont.	3P-90A	Transformer "T-6"	30		
31	HP-9 Heat Pump	3P-20A	HVAC	8.00 (9.63)	3.57 (12.90)		8.00 (9.63)	Light	1P-20A	Spare	32		
33	HP-9 Heat Pump	3P-20A	HVAC	8.00 (9.63)	3.57 (12.90)		8.00 (9.63)	Light	1P-20A	Spare	34		
35	Space				3.57 (12.90)				1P-20A	Space	36		
37	Space				3.57 (12.90)				1P-20A	Space	38		
39	Space				3.57 (12.90)				1P-20A	Space	40		
41	Space				3.57 (12.90)				1P-20A	Space	42		
					154.57 (181.95)	150.90 (52.70)							
					42.79	44.83	41.77						

Load Calculations				Notes:
Load Type	Connected Load (KVA)	Demand Factor	Demand Load (KVA)	
Misc. Continuous	61.73	1.25	77.16	
Misc Non-Continuous	0.00	1.00	0.00	
Receptacle to 10KVA	0.00	1.00	0.00	
Receptacle > 10 KVA	0.00	0.50	0.00	
Motors	0.00	1.00	0.00	
Largest Motor	0.00	0.25	0.00	
Lighting	10.91	1.25	13.64	
HVAC	38.04	1.00	38.04	
Kitchen	0.00	1.00	0.00	
Total Demand Load (KVA)			128.84	
(Amps)				155.15

LOCATION: ELECT RM 52
FED FROM: MAIN DIST. PANEL "MDP" (E)
MOUNTING: SURFACE

REVISED PANEL SCHEDULE
PANEL "4E"
480/277VOLT, 3 PHASE, 4 WIRE
225 AMP MAIN LUGS ONLY

FACILITY: NUD BLDG A

Section 1 of 1

Ckt #	LOAD DESCRIPTION	Breaker Type	Demand Type	Circuit KVA (AMPS)	KVA (AMPS)			Circuit KVA (AMPS)	Demand Type	Breaker Type	LOAD DESCRIPTION	Ckt #	Note
					Phase A	Phase B	Phase C						
1	Night Lighting	1P-20A	Light	1.56 (5.60)	2.49 (9.00)		1.30 (4.68)	Light	1P-20A	L-Misc.	2		
3	Night Lighting	1P-20A	Light	1.56 (5.60)	4.74 (17.10)		3.28 (11.85)	Light	1P-20A	L-Misc.	4	1	
5	Time Keeper	1P-20A	Cont.	1.50 (1.81)		2.44 (8.82)	1.50 (1.81)	Light	1P-20A	L-Misc.	6		
7	HP-20 Heat Pump	3P-20A	HVAC	8.00 (9.63)	3.28 (11.85)		8.00 (9.63)	Light	1P-20A	L-Misc.	8		
9	HP-20 Heat Pump	3P-20A	HVAC	8.00 (9.63)	2.67 (9.63)		8.00 (9.63)	Light	1P-20A	Spare	10		
11	HP-20 Heat Pump	3P-20A	HVAC	8.00 (9.63)	2.67 (9.63)		8.00 (9.63)	Light	1P-20A	Spare	12		
13	HP-21 Heat Pump	3P-25A	HVAC	14.04 (16.91)	7.35 (26.54)		8.00 (9.63)	HVAC	3P-20A	HR-19 Heat Pump	14		
15	HP-21 Heat Pump	3P-25A	HVAC	14.04 (16.91)	7.35 (26.54)		8.00 (9.63)	HVAC	3P-20A	HR-19 Heat Pump	16		
17	HP-21 Heat Pump	3P-25A	HVAC	14.04 (16.91)	7.35 (26.54)		8.00 (9.63)	HVAC	3P-20A	HR-19 Heat Pump	18		
19	HP-12 Heat Pump	3P-20A	HVAC	8.00 (9.63)	5.33 (19.27)		8.00 (9.63)	Light	3P-20A	HR-10 Heat Pump	20		
21	HP-12 Heat Pump	3P-20A	HVAC	8.00 (9.63)	5.33 (19.27)		8.00 (9.63)	Light	3P-20A	HR-10 Heat Pump	22		
23	HP-12 Heat Pump	3P-20A	HVAC	8.00 (9.63)	5.33 (19.27)		8.00 (9.63)	Light	3P-20A	HR-10 Heat Pump	24		
25	Transformer "T-4"	3P-20A	Cont.	17.47 (21.04)	20.05 (72.43)		42.88 (51.40)	Cont.	3P-90A	Transformer "T-6"	26		
27	Transformer "T-4"	3P-20A	Cont.	17.47 (21.04)	20.05 (72.43)		42.88 (51.40)	Cont.	3P-90A	Transformer "T-6"	28		
29	Transformer "T-4"	3P-20A	Cont.	17.47 (21.04)	20.05 (72.43)		42.88 (51.40)	Cont.	3P-90A	Transformer "T-6"	30		
31	HP-9 Heat Pump	3P-20A	HVAC	8.00 (9.63)	3.57 (12.90)		8.00 (9.63)	Light	1P-20A	Spare	32		
33	HP-9 Heat Pump	3P-20A	HVAC	8.00 (9.63)	3.57 (12.90)		8.00 (9.63)	Light	1P-20A	Spare	34		
35	Space				3.57 (12.90)				1P-20A	Space	36		
37	Space				3.57 (12.90)				1P-20A	Space	38		
39	Space				3.57 (12.90)				1P-20A	Space	40		
41	Space				3.57 (12.90)				1P-20A	Space	42		
					151.99 (157.88)	149.60 (52.70)							
					42.07	43.71	41.41						

Load Calculations				Notes:
Load Type	Connected Load (KVA)	Demand Factor	Demand Load (KVA)	
Misc. Continuous	60.65	1.25	75.81	
Misc Non-Continuous	0.00	1.00	0.00	
Receptacle to 10KVA	0.00	1.00	0.00	
Receptacle > 10 KVA	0.00	0.50	0.00	
Motors	0.00	1.00	0.00	
Largest Motor	0.00	0.25	0.00	
Lighting	9.79	1.25	12.23	
HVAC	38.04	1.00	38.04	
Kitchen	0.00	1.00	0.00	
Total Demand Load (KVA)			126.09	
(Amps)				151.84

LOCATION: Mech RM 09
FED FROM: PANEL 4E THRU XFMR "T-4"
MOUNTING: SURFACE

EXISTING PANEL SCHEDULE
PANEL "2E1"
208/120VOLT, 3 PHASE, 4 WIRE
100 AMP MAIN BREAKER

FACILITY: NUD BLDG A

Section 1 of 1

Ckt #	LOAD DESCRIPTION	Breaker Type	Demand Type	Circuit KVA (AMPS)	KVA (AMPS)			Circuit KVA (AMPS)	Demand Type	Breaker Type	LOAD DESCRIPTION	Ckt #	Note
					Phase A	Phase B	Phase C						
1	Receptacle Copier Corridor 14	1P-20A	Recept	1.40 (11.67)	2.53 (21.08)		1.13 (4.42)	Light	1P-20A	EF-1	2		
3	Receptacle Corridor 14 & Room 17	1P-20A	Recept	1.08 (9.00)	2.21 (18.42)		1.13 (4.42)	HVAC	1P-20A	Damper	4		
5	Receptacles	1P-20A	Recept	0.90 (7.50)	1.80 (15.00)		1.13 (4.42)	HVAC	1P-20A	EF-1	6		
7	Receptacles Room 45	1P-20A	Recept	0.72 (6.00)	1.36 (11.33)		1.26 (10.50)	Recept	1P-20A	Receptacles Room 45	8		
9	Receptacles Room 45	1P-20A	Recept	0.72 (6.00)	1.36 (11.33)		1.26 (10.50)	Recept	1P-20A	Receptacles Room 45	10		
11	Receptacles Room 45	1P-20A	Recept	0.72 (6.00)	1.36 (11.33)		1.26 (10.50)	Recept	1P-20A	Receptacles Room 45	12		
13	Receptacles Room 45	1P-20A	Recept	0.72 (6.00)	1.36 (11.33)		1.26 (10.50)	Recept	1P-20A	Receptacles Room 45	14		
15	Spare	1P-20A							1P-20A	Spare	16		
17	Spare	1P-20A							1P-20A	Spare	18		
19	EF-4	1P-20A	HVAC	1.13 (9.42)	1.13 (9.42)		1.13 (9.42)	HVAC	1P-20A	Spare	20		
21	GAT / Hardwired	1P-20A	Cont.	1.20 (10.00)	1.20 (10.00)		1.20 (10.00)	Cont.	1P-20A	Spare	22		
23	Spare	1P-20A							1P-20A	Space	24		
25	Spare	1P-20A							1P-20A	Space	26		
27	Spare	1P-20A							1P-20A	Space	28		
29	Spare	1P-20A							1P-20A	Space	30		
31	Spare	1P-20A							1P-20A	Space	32		
33	Spare	1P-20A							1P-20A	Space	34		
35	Spare	1P-20A							1P-20A	Space	36		
37	Control Transformer	1P-20A	Cont.	1.00 (8.33)	1.00 (8.33)		1.00 (8.33)	Cont.	1P-20A	Space	38		
39	Control Transformer	1P-20A	Cont.	1.00 (8.33)	1.00 (8.33)		1.00 (8.33)	Cont.	1P-20A	Space	40		
41	Control Transformer	1P-20A	Cont.	1.00 (8.33)	1.00 (8.33)		1.00 (8.33)	Cont.	1P-20A	Space	42		
					58.33 (53.25)	32.75 (12.75)							
					7.00	6.39	3.93						

Load Calculations				Notes:
Load Type	Connected Load (KVA)	Demand Factor	Demand Load (KVA)	
Misc. Continuous	4.20	1.25	5.25	
Misc Non-Continuous	0.00	1.00	0.00	
Receptacle to 10KVA	7.70	1.00	7.70	
Receptacle > 10 KVA	0.00	0.50	0.00	
Motors	0.00	1.00	0.00	
Largest Motor	0.00	0.25	0.00	
Lighting	0.00	1.25	0.00	
HVAC	4.52	1.00	4.52	
Kitchen	0.00	1.00	0.00	
Total Demand Load (KVA)			17.47	
(Amps)				48.55

LOCATION: Mech RM 09
FED FROM: PANEL 4E THRU XFMR "T-4"
MOUNTING: SURFACE

REVISED PANEL SCHEDULE
PANEL "2E1"
208/120VOLT, 3 PHASE, 4 WIRE
100 AMP MAIN BREAKER

FACILITY: NUD BLDG A

Section 1 of 1

Ckt #	LOAD DESCRIPTION	Breaker Type	Demand Type	Circuit KVA (AMPS)
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LOCATION: ELEC RM 52 FACILITY: NUD BLDG A
 FED FROM: MAIN DIST. PANEL "MDP" (E) MOUNTING: SURFACE
 EXISTING PANEL SCHEDULE
PANEL "4L"
 480/277VOLT, 3 PHASE, 4 WIRE
 200 AMP MAIN LUG ONLY

Ckt #	LOAD DESCRIPTION	Breaker Type	Demand Type	Circuit KVA (AMPS)	KVA (AMPS)			Circuit KVA (AMPS)	Demand Type	Breaker Type	LOAD DESCRIPTION	Ckt #	Note
					Phase A	Phase B	Phase C						
1	L-Misc.	1P-20A	Light	2.22 (8.02)	3.39 (12.22)			1.18 (4.20)	Light	1P-20A	L-Misc.	2	
3	L-Misc.	1P-20A	Light	1.16 (4.20)		2.95 (10.64)		1.78 (6.44)	Light	1P-20A	L-Misc.	4	
5	L-Misc.	1P-20A	Light	1.62 (5.66)			4.24 (15.30)	2.42 (8.74)	Light	1P-20A	L-Misc.	6	
7	L-Misc.	1P-20A	Light	2.05 (7.40)	4.98 (17.99)			2.93 (10.59)	Light	1P-20A	L-Misc.	8	
9	L-Misc.	1P-20A	Light	1.25 (4.51)		3.41 (12.31)		2.16 (7.80)	Light	1P-20A	J-Box Sign	10	
11	L-Misc.	1P-20A	Light	1.90 (6.87)			4.12 (14.88)	2.22 (8.01)	Light	1P-20A	Ext Lighting	12	
13	Spare	1P-20A			1.90 (6.86)			1.90 (6.86)	Light	1P-20A	Ext Lighting	14	
15	L-Misc. West Entrance Lighting L-Emergency	1P-20A	Light	3.98 (14.25)		5.98 (21.57)		2.03 (7.33)	Light	1P-20A	Site Lighting	16	
17		1P-20A	Light	0.40 (1.44)			2.68 (9.66)	2.28 (8.21)	Light	1P-20A	Site Lighting	18	
19				4.80 (17.34)				1.80 (6.50)	Light	1P-20A	West Parking Lights	20	
21	HP-18 Heat Pump	3P-20A	HVAC	0.00 (0.00)				0.00 (0.00)	Light	1P-20A	Spare	22	
23	Spare	1P-20A								1P-20A	Spare	24	
25	Spare	1P-20A			7.76 (28.05)							26	
27	Lighting Bollad	1P-20A	Light	0.80 (2.89)		7.76 (28.05)		23.29 (84.05)	Cont.	3P-40A	Transformer "T-5"	28	
29		1P-20A	Light	0.80 (2.89)			8.68 (30.94)					30	
31	ERV Energy Recovery Unit	3P-20A	HVAC	2.37 (8.55)	2.87 (10.37)			8.24 (29.62)	Cont.	3P-40A	Transformer "T-8"	34	
33						2.87 (10.37)		7.51 (27.00)	Cont.	3P-40A	Transformer "T-8"	34	
35	Space										Space	36	
37	Space										Space	38	
39	Space										Space	40	
41	Space										Space	42	

(92.82) (82.94) (81.15) Amps
 25.70 22.97 22.47 KVA

Load Calculations				Notes:
Load Type	Connected Load (KVA)	Demand Factor	Demand Load (KVA)	
Misc. Continuous	29.53	1.25	36.82	
Misc Non-Continuous	0.00	1.00	0.00	
Receptacle to 10KVA	0.00	1.00	0.00	
Receptacle > 10 KVA	0.00	0.50	0.00	
Motors	0.00	1.00	0.00	
Largest Motor	0.00	0.25	0.00	
Lighting	36.24	1.25	45.30	
HVAC	2.37	1.00	2.37	
Kitchen	0.00	1.00	0.00	
Total Demand Load (KVA)			84.58	
(Amps)			101.86	

LOCATION: ELEC RM 52 FACILITY: NUD BLDG A
 FED FROM: MAIN DIST. PANEL "MDP" (E) MOUNTING: SURFACE
 REVISED PANEL SCHEDULE
PANEL "4L"
 480/277VOLT, 3 PHASE, 4 WIRE
 200 AMP MAIN LUG ONLY

Ckt #	LOAD DESCRIPTION	Breaker Type	Demand Type	Circuit KVA (AMPS)	KVA (AMPS)			Circuit KVA (AMPS)	Demand Type	Breaker Type	LOAD DESCRIPTION	Ckt #	Note
					Phase A	Phase B	Phase C						
1	L-Misc.	1P-20A	Light	2.22 (8.02)	3.21 (11.59)			0.99 (3.57)	Light	1P-20A	L-Misc.	2	1
3	L-Misc.	1P-20A	Light	1.16 (4.20)		2.88 (10.48)		1.51 (5.46)	Light	1P-20A	L-Misc.	4	1
5	L-Misc.	1P-20A	Light	1.62 (5.66)			3.08 (11.12)	1.28 (4.55)	Light	1P-20A	L-Misc.	6	1
7	L-Misc.	1P-20A	Light	2.05 (7.40)	3.38 (12.12)			2.29 (8.25)	Light	1P-20A	L-Misc.	8	1
9	L-Misc.	1P-20A	Light	1.25 (4.51)		3.41 (12.31)		2.16 (7.80)	Light	1P-20A	J-Box Sign	10	
11	L-Misc.	1P-20A	Light	1.90 (6.87)			4.12 (14.88)	2.22 (8.01)	Light	1P-20A	Ext Lighting	12	
13	Lighting Rm-D1, D2 & 10	1P-20A	Light	0.76 (2.75)		2.86 (10.40)		1.90 (6.86)	Light	1P-20A	Ext Lighting	14	
15	L-Misc. West Entrance Lighting L-Emergency	1P-20A	Light	3.98 (14.25)		5.98 (21.57)		2.03 (7.33)	Light	1P-20A	Site Lighting	16	
17		1P-20A	Light	0.40 (1.44)			2.68 (9.66)	2.28 (8.21)	Light	1P-20A	Site Lighting	18	
19				4.80 (17.34)				1.80 (6.50)	Light	1P-20A	West Parking Lights	20	
21	HP-18 Heat Pump	3P-20A	HVAC	0.00 (0.00)				0.00 (0.00)	Light	1P-20A	Spare	22	
23	Spare	1P-20A								1P-20A	Spare	24	
25	Spare	1P-20A			7.88 (28.49)							26	
27	Lighting Bollad	1P-20A	Light	0.80 (2.89)		7.88 (28.49)		23.85 (86.49)	Cont.	3P-40A	Transformer "T-5"	28	
29		1P-20A	Light	0.80 (2.89)			8.68 (31.37)					30	
31	ERV Energy Recovery Unit	3P-20A	HVAC	2.37 (8.55)	2.87 (10.37)			8.24 (29.62)	Cont.	3P-40A	Transformer "T-8"	34	
33						2.87 (10.37)		7.51 (27.00)	Cont.	3P-40A	Transformer "T-8"	34	
35	Space										Space	36	
37	Space										Space	38	
39	Space										Space	40	
41	Space										Space	42	

(89.51) (73.81) (77.40) Amps
 24.78 20.44 21.43 KVA

Load Calculations				Notes:
Load Type	Connected Load (KVA)	Demand Factor	Demand Load (KVA)	
Misc. Continuous	29.89	1.25	37.37	
Misc Non-Continuous	0.00	1.00	0.00	
Receptacle to 10KVA	0.00	1.00	0.00	
Receptacle > 10 KVA	0.00	0.50	0.00	
Motors	0.00	1.00	0.00	
Largest Motor	0.00	0.25	0.00	
Lighting	31.39	1.25	39.23	
HVAC	2.37	1.00	2.37	
Kitchen	0.00	1.00	0.00	
Total Demand Load (KVA)			78.97	
(Amps)			95.10	

LOCATION: ELEC RM 52 FACILITY: NUD BLDG A
 FED FROM: PANEL 4L THRU XFMR "T5" MOUNTING: SURFACE
 EXISTING PANEL SCHEDULE
PANEL "2P1"
 208/120VOLT, 3 PHASE, 4 WIRE
 70 AMP MAIN BREAKER

Ckt #	LOAD DESCRIPTION	Breaker Type	Demand Type	Circuit KVA (AMPS)	KVA (AMPS)			Circuit KVA (AMPS)	Demand Type	Breaker Type	LOAD DESCRIPTION	Ckt #	Note
					Phase A	Phase B	Phase C						
1	Lighting	1P-20A	Light	1.34 (4.80)				1.34 (4.80)	Light	1P-20A	Dishwasher	2	
3	Lighting	1P-20A	Light	0.40 (1.44)		0.40 (1.44)		0.40 (1.44)	Light	1P-20A	Spare	4	
5	Lighting	1P-20A	Light	0.25 (0.88)		1.05 (3.77)		0.80 (2.89)	Light	1P-20A	Kitchen Exhaust Fan	6	
7	Vending Receptacle	1P-20A	Recept	0.60 (2.12)	1.50 (5.29)			0.60 (2.12)	Recept	1P-20A	Receptacles	8	
9	Vending Receptacle	1P-20A	Recept	0.60 (2.12)		1.68 (5.99)		0.60 (2.12)	Recept	1P-20A	Receptacles	10	
11	Vending Receptacle	1P-20A	Recept	0.60 (2.12)			1.50 (5.29)	0.60 (2.12)	Recept	1P-20A	Receptacles	12	
13	Receptacle	1P-20A	Recept	0.90 (3.23)		1.62 (5.74)		0.90 (3.23)	Recept	1P-20A	Receptacles	14	
15	Receptacle	1P-20A	Recept	0.72 (2.59)		1.44 (5.14)		0.72 (2.59)	Recept	1P-20A	Receptacles	16	
17	Receptacle	1P-20A	Recept	0.72 (2.59)			1.08 (3.87)	0.72 (2.59)	Recept	1P-20A	Receptacles	18	
19	Receptacle	1P-20A	Recept	0.72 (2.59)			1.98 (7.07)	0.72 (2.59)	Recept	1P-20A	Receptacles	20	
21	Receptacle Fan Admin	1P-20A	Recept	1.44 (5.14)		2.70 (9.66)		1.26 (4.51)	Recept	1P-20A	Lunch Room receptacles	22	
23	Receptacle	1P-20A	Recept	1.20 (4.24)			2.20 (7.91)	1.00 (3.53)	HVAC	1P-20A	IF-7	24	
25	Receptacle	1P-20A	Recept	0.36 (1.27)		1.18 (4.24)		0.80 (2.89)	HVAC	1P-20A	EF-3	26	
27	Receptacle	1P-20A	Recept	0.06 (0.21)		0.06 (0.21)		0.06 (0.21)	HVAC	1P-20A	Spare	28	
29	Receptacle	1P-20A	Recept	1.20 (4.24)			1.20 (4.24)	1.20 (4.24)			Spare	30	
31	Outside Light Controller	1P-20A	Light	0.00 (0.00)	1.71 (6.14)			3.41 (12.31)	HVAC	2P-30A	HP-3 Heat Pump	32	
33	HP-8 Heat Pump	2P-20A	HVAC	1.98 (7.07)		2.69 (9.50)		3.41 (12.31)			Space	34	
35	Space							0.99 (3.53)			Space	36	
37	Space										Space	38	
39	Space										Space	40	
41	Space										Space	42	

(78.20) (81.27) (88.10) Amps
 9.12 8.98 8.02 KVA

Load Calculations				Notes:
Load Type	Connected Load (KVA)	Demand Factor	Demand Load (KVA)	
Misc. Continuous	0.00	1.25	0.00	
Misc Non-Continuous	0.00	1.00	0.00	
Receptacle to 10KVA	10.00	1.00	10.00	
Receptacle > 10 KVA	6.14	0.50	3.07	
Motors	0.00	1.00	0.00	
Largest Motor	0.00	0.25	0.00	
Lighting	0.99	1.25	1.24	
HVAC	7.19	1.00	7.19	
Kitchen	1.80	1.00	1.80	
Total Demand Load (KVA)			23.29	
(Amps)			64.74	

LOCATION: ELEC RM 52 FACILITY: NUD BLDG A
 FED FROM: PANEL 4L THRU XFMR "T5" MOUNTING: SURFACE
 REVISED PANEL SCHEDULE
PANEL "2P1"
 208/120VOLT, 3 PHASE, 4 WIRE
 70 AMP MAIN BREAKER

Ckt #	LOAD DESCRIPTION	Breaker Type	Demand Type	Circuit KVA (AMPS)	KVA (AMPS)			Circuit KVA (AMPS)	Demand Type	Breaker Type	LOAD DESCRIPTION	Ckt #	Note
					Phase A	Phase B	Phase C						
1	Lighting	1P-20A	Light	1.34 (4.80)				1.34 (4.80)	Light	1P-20A	Dishwasher	2	
3	Lighting	1P-20A	Light	0.40 (1.44)		0.40 (1.44)		0.40 (1.44)	Light	1P-20A	Spare	4	
5	Lighting	1P-20A	Light	0.25 (0.88)		1.05 (3.77)		0.80 (2.89)	Light	1P-20A	Kitchen Exhaust Fan	6	
7	Vending Receptacle	1P-20A	Recept	0.60 (2.12)	1.50 (5.29)			0.60 (2.12)	Recept	1P-20A	Receptacles	8	
9	Vending Receptacle	1P-20A	Recept	0.60 (2.12)		1.68 (5.99)		0.60 (2.12)	Recept	1P-20A	Receptacles	10	
11	Vending Receptacle	1P-20A	Recept	0.60 (2.12)			1.50 (5.29)	0.60 (2.12)	Recept	1P-20A	Receptacles	12	
13	Receptacle	1P-20A	Recept	0.90 (3.23)		1.62 (5.74)		0.90 (3.23)	Recept	1P-20A	Receptacles	14	
15	Receptacle	1P-20A	Recept	0.72 (2.59)		1.44 (5.14)		0.72 (2.59)	Recept	1P-20A	Receptacles	16	
17	Receptacle	1P-20A	Recept	0.72 (2.59)			1.08 (3.87)	0.72 (2.59)	Recept	1P-20A	Receptacles	18	
19	Receptacle	1P-20A	Recept	0.72 (2.59)			1.98 (7.07)	0.72 (2.59)	Recept	1P-20A	Receptacles	20	
21	Receptacle Fan Admin	1P-20A	Recept	1.44 (5.14)		2.70 (9.66)		1.26 (4.51)	Recept	1P-20A	Lunch Room receptacles	22	
23	Receptacle	1P-20A	Recept	1.20 (4.24)			2.20 (7.91)	1.00 (3.53)	HVAC	1P-20A	IF-7	24	
25	Receptacle	1P-20A	Recept	0.36 (1.27)		1.18 (4.24)		0.80 (2.89)	HVAC	1P-20A	EF-3	26	
27	Receptacle	1P-20A	Recept	0.06 (0.21)		0.06 (0.21)		0.06 (0.21)	HVAC	1P-20A	Spare	28	
29	Receptacle	1P-20A	Recept	1.20 (4.24)			1.20 (4.24)	1.20 (4.24)			Spare	30	
31	Outside Light Controller	1P-20A	Light	0.00 (0.00)	1.71 (6.14)			3.41 (12.31)	HVAC	2P-30A	HP-3 Heat Pump	32	
33	HP-8 Heat Pump	2P-20A	HVAC	1.98 (7.07)		2.69 (9.50)		3.41 (12.31)			Space	34	
35	Space												

LOCATION: MECH RM 09
FED FROM: MAIN DIST. PANEL "MDP" (E)
MOUNTING: SURFACE

EXISTING PANEL SCHEDULE
PANEL "4M2"
480/277VOLT, 3 PHASE, 4 WIRE
100 AMP MAIN LUG ONLY

FACILITY: NUD BLDG A

Ckt #	LOAD DESCRIPTION	Breaker Type	Demand Type	Circuit KVA (AMPS)			Pole #	Circuit KVA (AMPS)	Demand Type	Breaker Type	LOAD DESCRIPTION	Ckt #	Note
				Phase A	Phase B	Phase C							
1	HP-5 Heat Pump	3P-25A	HVAC	14.95 (18.00)	17.13 (61.89)	17.13 (61.89)	2	36.45 (43.89)	Cont.	3P-80A	Transformer "T-3"	2	
3												4	
5												6	
7	HP-1 Heat Pump	3P-20A	HVAC	6.89 (8.30)	4.05 (14.62)	4.05 (14.62)	8	5.25 (6.32)	HVAC	3P-20A	HP-4 Heat Pump	8	
9												10	
11	Space											12	
13	Emergency Lights	1P-20A	Light	0.50 (1.81)	0.50 (1.81)	0.50 (1.81)	14					14	
15	Space											16	
17	Space											18	
				(76.52) (78.32) (76.52) Amps									
				21.18 21.88 21.18 KVA									

Load Calculations				Notes:
Load Type	Connected Load (KVA)	Demand Factor	Demand Load (KVA)	
Misc. Continuous	36.45	1.25	45.56	
Misc Non-Continuous	0.00	1.00	0.00	
Receptacle to 10KVA	0.00	1.00	0.00	
Receptacle > 10 KVA	0.00	0.50	0.00	
Motors	0.00	1.00	0.00	
Largest Motor	0.00	0.25	0.00	
Lighting	0.50	1.25	0.63	
HVAC	27.09	1.00	27.09	
Kitchen	0.00	1.00	0.00	
Total Demand Load (KVA)			73.28	
			(Amps) 88.24	

LOCATION: MECH RM 09
FED FROM: PANEL 4M2 THRU XFMR "T-3"
MOUNTING: SURFACE

EXISTING PANEL SCHEDULE
PANEL "2P3"
208/120VOLT, 3 PHASE, 4 WIRE
100 AMP MAIN LUG / FEED THRU LUG

FACILITY: NUD BLDG A

Ckt #	LOAD DESCRIPTION	Breaker Type	Demand Type	Circuit KVA (AMPS)			Pole #	Circuit KVA (AMPS)	Demand Type	Breaker Type	LOAD DESCRIPTION	Ckt #	Note
				Phase A	Phase B	Phase C							
1	Receptacles	1P-20A	Recept	1.08 (9.00)	1.26 (15.00)	1.26 (15.00)	2	13.50	Recept	1P-20A	Receptacles	2	
3	Receptacles	1P-20A	Recept	0.72 (6.00)	0.72 (6.00)	0.72 (6.00)	4	9.00	Recept	1P-20A	Receptacles	4	
5	Receptacles	1P-20A	Recept	0.72 (6.00)	0.72 (6.00)	0.72 (6.00)	6	9.00	Recept	1P-20A	Receptacles	6	
7	Partition Receptacle	1P-20A	Recept	0.72 (6.00)	1.62 (13.50)	1.62 (13.50)	8	9.00	Recept	1P-20A	Receptacles	8	
9	Receptacles	1P-20A	Recept	0.18 (1.50)	1.26 (10.50)	1.26 (10.50)	10	9.00	Recept	1P-20A	Receptacles	10	
11	Spare	1P-20A					12	9.00	Recept	1P-20A	Receptacles	12	
13	Receptacles	1P-20A	Recept	0.54 (4.50)	1.26 (10.50)	1.26 (10.50)	14	9.00	Recept	1P-20A	Receptacles	14	
15	Receptacles	1P-20A	Recept	1.08 (9.00)	1.08 (9.00)	1.08 (9.00)	16	9.00	Recept	1P-20A	Receptacles	16	
17	Receptacles	1P-20A	Recept	0.54 (4.50)	1.62 (13.50)	1.62 (13.50)	18	9.00	Recept	1P-20A	Receptacles	18	
19	Receptacles	1P-20A	Recept	1.08 (9.00)	2.16 (18.00)	2.16 (18.00)	20	9.00	Recept	1P-20A	Receptacles	20	
21	Receptacles	1P-20A	Recept	1.08 (9.00)	1.80 (15.00)	1.80 (15.00)	22	9.00	Recept	1P-20A	Receptacles	22	
23	Receptacles	1P-20A	Recept	0.72 (6.00)	0.72 (6.00)	0.72 (6.00)	24	9.00	Recept	1P-20A	Spare	24	
25	Receptacles	1P-20A	Recept	0.90 (7.50)	1.26 (10.50)	1.26 (10.50)	26	9.00	Recept	1P-20A	Roof Receptacles	26	
27	Receptacles	1P-20A	Recept	1.08 (9.00)	2.48 (20.67)	2.48 (20.67)	28	11.67	Recept	1P-20A	Copier	28	
29	Receptacles	1P-20A	Recept	0.90 (7.50)	1.62 (13.50)	1.62 (13.50)	30	9.00	Recept	1P-20A	Receptacles	30	
31	Space	1P-20A					32	9.00	Recept	1P-20A	Receptacles	32	
33	Partition Receptacle	1P-20A	Recept	1.44 (12.00)	2.16 (18.00)	2.16 (18.00)	34	9.00	Recept	1P-20A	Partition Receptacle	34	
35	Partition Receptacle	1P-20A	Recept	1.44 (12.00)	1.44 (12.00)	1.44 (12.00)	36	9.00	Recept	1P-20A	Space	36	
37	Partition Receptacle	1P-20A	Recept	1.62 (13.50)	1.62 (13.50)	1.62 (13.50)	38	9.00	Recept	1P-20A	Receptacles	38	
39	Spare	1P-20A					40	11.67	Recept	1P-20A	Copier J in Ceiling	40	
41	Spare	1P-20A					42	12.00	Recept	1P-20A	Receptacles	42	
				(99.00) (108.83) (81.00) Amps									
				11.88 13.06 9.72 KVA									

Load Calculations				Notes:
Load Type	Connected Load (KVA)	Demand Factor	Demand Load (KVA)	
Misc. Continuous	0.00	1.25	0.00	
Misc Non-Continuous	0.00	1.00	0.00	
Receptacle to 10KVA	10.00	1.00	10.00	
Receptacle > 10 KVA	24.66	0.50	12.33	
Motors	0.00	1.00	0.00	
Largest Motor	0.00	0.25	0.00	
Lighting	0.00	1.25	0.00	
HVAC	0.00	1.00	0.00	
Kitchen	0.00	1.00	0.00	
Total Demand Load (KVA)			22.33	
			(Amps) 62.06	

LOCATION: MECH RM 09
FED FROM: PANEL 4M2 THRU XFMR "T-3"
MOUNTING: SURFACE

EXISTING PANEL SCHEDULE
PANEL "2P4"
208/120VOLT, 3 PHASE, 4 WIRE
250 AMP MAIN LUG ONLY

FACILITY: NUD BLDG A

Ckt #	LOAD DESCRIPTION	Breaker Type	Demand Type	Circuit KVA (AMPS)			Pole #	Circuit KVA (AMPS)	Demand Type	Breaker Type	LOAD DESCRIPTION	Ckt #	Note
				Phase A	Phase B	Phase C							
1	Lighting	1P-20A	Light	0.22 (0.83)	0.22 (0.83)	0.22 (0.83)	2	2.88 (4.28)	Light	1P-20A	Lighting	2	
3	Lighting	1P-20A	Light	0.15 (0.51)	0.15 (0.51)	0.15 (0.51)	4	1.71 (2.43)	Light	1P-20A	Spare	4	
5	HP-2 Heat Pump	2P-25A	HVAC	3.41 (16.40)	2.21 (20.57)	2.21 (20.57)	6	9.50 (4.17)	Cont.	1P-20A	Security	6	
7	Spare	1P-20A					8	9.50 (4.17)	Cont.	1P-20A	Spare	8	
9	Spare	1P-20A					10			1P-20A	Spare	10	
11	Spare	1P-20A					12			1P-20A	Spare	12	
13	RCP-1 Radiant Ceiling Panel	1P-20A	Light	0.75 (6.25)	1.75 (15.87)	1.75 (15.87)	14	2.00 (9.62)	HVAC	2P-30A	Heat Tape East	14	
15	RCP-2 Radiant Ceiling Panel	1P-20A	Light	0.75 (6.25)	1.75 (15.87)	1.75 (15.87)	16					16	
17	Space						18					18	
19	Space						20					20	
21	HP-6 Heat Pump	2P-25A	HVAC	3.41 (16.40)	2.69 (25.90)	2.69 (25.90)	22	1.98 (9.50)	HVAC	2P-20A	HP-7 Heat Pump	22	
23	Space						24					24	
25	Space						26					26	
27	Space						28					28	
29	Space						30					30	
				(40.89) (42.98) (42.30) Amps									
				4.47 4.59 4.40 KVA									

Load Calculations				Notes:
Load Type	Connected Load (KVA)	Demand Factor	Demand Load (KVA)	
Misc. Continuous	0.50	1.25	0.63	
Misc Non-Continuous	0.00	1.00	0.00	
Receptacle to 10KVA	0.00	1.00	0.00	
Receptacle > 10 KVA	0.00	0.50	0.00	
Motors	0.00	1.00	0.00	
Largest Motor	0.00	0.25	0.00	
Lighting	2.16	1.25	2.70	
HVAC	10.80	1.00	10.80	
Kitchen	0.00	1.00	0.00	
Total Demand Load (KVA)			14.12	
			(Amps) 39.24	

LOCATION: MECH RM 09
FED FROM: MAIN DIST. PANEL "MDP" (E)
MOUNTING: SURFACE

REVISED PANEL SCHEDULE
PANEL "4M2"
480/277VOLT, 3 PHASE, 4 WIRE
100 AMP MAIN LUG ONLY

FACILITY: NUD BLDG A

Ckt #	LOAD DESCRIPTION	Breaker Type	Demand Type	Circuit KVA (AMPS)			Pole #	Circuit KVA (AMPS)	Demand Type	Breaker Type	LOAD DESCRIPTION	Ckt #	Note
				Phase A	Phase B	Phase C							
1	HP-5 Heat Pump	3P-25A	HVAC	14.95 (18.00)	18.19 (65.73)	18.19 (65.73)	2	39.83 (47.73)	Cont.	3P-80A	Transformer "T-3"	2	
3							4					4	
5							6					6	
7	HP-1 Heat Pump	3P-20A	HVAC	6.89 (8.30)	4.05 (14.62)	4.05 (14.62)	8	5.25 (6.32)	HVAC	3P-20A	HP-4 Heat Pump	8	
9							10					10	
11	Space						12					12	
13	Emergency Lights	1P-20A	Light	0.50 (1.81)	0.50 (1.81)	0.50 (1.81)	14					14	
15	Space						16					16	
17	Space						18					18	
				(80.35) (82.16) (80.35) Amps									
				22.24 22.74 22.24 KVA									

Load Calculations				Notes:
Load Type	Connected Load (KVA)	Demand Factor	Demand Load (KVA)	
Misc. Continuous	39.83	1.25	49.54	
Misc Non-Continuous	0.00	1.00	0.00	
Receptacle to 10KVA	0.00	1.00	0.00	
Receptacle > 10 KVA	0.00	0.50	0.00	
Motors	0.00	1.00	0.00	
Largest Motor	0.00	0.25	0.00	
Lighting	0.50	1.25	0.63	
HVAC	27.09	1.00	27.09	
Kitchen	0.00	1.00	0.00	
Total Demand Load (KVA)			77.26	
			(Amps) 93.04	

LOCATION: MECH RM 09
FED FROM: PANEL 4M2 THRU XFMR "T-3"
MOUNTING: SURFACE

REVISED PANEL SCHEDULE
PANEL "2P3"
208/120VOLT, 3 PHASE, 4 WIRE
100 AMP MAIN LUG / FEED THRU LUG

FACILITY: NUD BLDG A

Ckt #	LOAD DESCRIPTION	Breaker Type	Demand Type	Circuit KVA (AMPS)			Pole #	Circuit KVA (AMPS)	Demand Type	Breaker Type	LOAD DESCRIPTION	Ckt #	Note
				Phase A	Phase B	Phase C							
1	Receptacles	1P-20A	Recept	1.08 (9.00)	2.16 (18.00)	2.16 (18.00)	2	9.00	Recept	1P-20A	Receptacles	2	
3	Receptacles	1P-20A	Recept	0.90 (7.50)	1.08 (9.00)	1.08 (9.00)	4	9.00	Recept	1P-20A	Receptacles	4	
5	Receptacles	1P-20A	Recept	0.72 (6.00)	0.72 (6.00)	0.72 (6.00)	6	9.00	Recept	1P-20A	Receptacles	6	
7	Partition Receptacle	1P-20A	Recept	0.72 (6.00)	1.62 (13.50)	1.62 (13.50)	8	9.00	Recept	1P-20A	Receptacles	8	
9	Receptacles	1P-20A	Recept	0.18 (1.50)	1.26 (10.50)	1.26 (10.50)	10	9.00	Recept	1P-20A	Receptacles	10	
11	Faucet Power supply	1P-20A	N.Cont	0.36 (3.00)	1.44 (12.00)	1.44 (12.00)	11	9.00	Recept	1P-20A	Receptacles	11	
13	Receptacles	1P-20A	Recept	0.36 (3.00)	1.08 (9.00)	1.08 (9.00)	14	9.00	Recept	1P-20A	Receptacles	14	
15	Receptacles	1P-20A	Recept	1.08 (9.00)	2.16 (18.00)	2.16 (18.00)	16	9.00	Recept	1P-20A	Receptacles	16	
17	Receptacles	1P-20A	Recept	0.54 (4.50)	1.62 (13.50)	1.62 (13.50)	18	9.00	Recept	1P-20A	Receptacles	18	
19	Receptacles	1P-20A	Recept	1.08 (9.00)	2.16 (18.00)	2.16 (18.00)	20	9.00	Recept	1P-20A	Receptacles	20	
21	Receptacles	1P-20A	Recept	1.08 (9.00)	1.80 (15.00)	1.80 (15.00)	22	9.00	Recept	1P-20A	Receptacles	22	
23	Receptacles	1P-20A	Recept	0.90 (7.50)	1.08 (9.00)	1.08 (9.00)	24	9.00	Recept	1P-20A	Spare	24	
25	Receptacles	1P-20A	Recept	0.90 (7.50)	1.26 (10.50)	1.26 (10.50)	26	9.00	Recept	1P-20A	Roof Receptacles	26	
27	Receptacles	1P-20A	Recept	1.08 (9.00)	2.48 (20.67)	2.48 (20.67)	28	11.67	Recept	1P-20A	Copier	28	
29	Receptacles	1P-20A	Recept	0.90 (7.50)	1.98 (16.50)	1.98 (16.50)	30	9.00	Recept	1P-20A	Receptacles	30	
31	Space	1P-20A					32	9.00	Recept	1P-20A	Receptacles	32	
33	Partition Receptacle	1P-20A	Recept	1.08 (9.00)									

LOCATION: ELEC / MECH RM 64
 FED FROM: MAIN DIST. PANEL "MDP" (E)
 MOUNTING: SURFACE

EXISTING PANEL SCHEDULE
PANEL "4M1"
 480/277VOLT, 3 PHASE, 4 WIRE
 400 AMP MAIN LUG ONLY

FACILITY: NUD BLDG A

Section 1 of 1

Ckt #	LOAD DESCRIPTION	Breaker Type	Demand Type	Circuit KVA (AMPS)	KVA, (AMPS)			Circuit KVA (AMPS)	Demand Type	Breaker Type	LOAD DESCRIPTION	Ckt #	Note
					Phase A	Phase B	Phase C						
1				3.57 (12.89)			2				2		
3	HP-22 Heat Pump	3P-25A	HVAC	2.70 (3.25)	3.57 (12.89)		4	8.00 (9.63)	HVAC	3P-20A	HP-14 Heat Pump	4	
5							6					6	
7				2.17 (7.85)			8					8	
9	HP-11 Heat Pump	3P-20A	HVAC	2.70 (3.25)	2.17 (7.85)		10	3.82 (4.60)	HVAC	3P-20A	CP-1 Cooling Tower Control Panel	10	
11							12					12	
13				2.55 (9.20)			14					14	
15	P-1 Pump, Boiler Loop	3P-20A	HVAC	3.82 (4.60)	2.55 (9.20)		16	3.82 (4.60)	HVAC	3P-20A	P-4 Pump, Hydronic Loop	16	
17							18					18	
19				6.26 (22.61)			20					20	
21	HP-16 Heat Pump	3P-20A	HVAC	6.05 (9.70)	6.26 (22.61)		22	10.72 (12.91)	HVAC	3P-20A	HP-13 Heat Pump	22	
23							24					24	
25				5.95 (21.51)			26					26	
27	HP-17 Heat Pump	3P-20A	HVAC	10.71 (12.90)	5.95 (21.51)		28	7.15 (8.61)	HVAC	3P-20A	CU-1 Condensing Unit	28	
29							30					30	
31				13.09 (47.28)			32					32	
33	Transformer "T-7"	3P-40A	Cont.	25.97 (31.28)	13.09 (47.28)		34	13.29 (16.00)	HVAC	3P-20A	P-2 Pump, Boiler Loop	34	
35							36					36	
37				7.11 (25.70)			38					38	
39	P-3 Pump, Hydronic Loop	3P-20A	HVAC	6.05 (9.70)	7.11 (25.70)		40	13.29 (16.00)	HVAC	3P-20A	FC-1 Fan Coil	40	
41							42					42	

Load Calculations				Notes:
Load Type	Connected Load (KVA)	Demand Factor	Demand Load (KVA)	
Misc. Continuous	25.97	1.25	32.46	
Misc. Non-Continuous	0.00	1.00	0.00	
Receptacle to 10KVA	0.00	1.00	0.00	
Receptacle > 10 KVA	0.00	0.50	0.00	
Motors	0.00	1.00	0.00	
Largest Motor	0.00	0.25	0.00	
Lighting	0.00	1.25	0.00	
HVAC	96.12	1.00	96.12	
Kitchen	0.00	1.00	0.00	
Total Demand Load (KVA)			128.59	
			(Amps) 154.85	

LOCATION: ELEC / MECH RM 64
 FED FROM: PANEL 4M1 THRU XFMR "T-7"
 MOUNTING: SURFACE

EXISTING PANEL SCHEDULE
PANEL "2P5"
 208/120VOLT, 3 PHASE, 4 WIRE
 70 AMP MAIN LUG / FEED THRU LUG

FACILITY: NUD BLDG A

Section 1 of 1

Ckt #	LOAD DESCRIPTION	Breaker Type	Demand Type	Circuit KVA (AMPS)	KVA, (AMPS)			Circuit KVA (AMPS)	Demand Type	Breaker Type	LOAD DESCRIPTION	Ckt #	Note
					Phase A	Phase B	Phase C						
1	Outlet Hallway Workout	1P-20A	Light	0.22 (1.83)	0.52 (4.33)		2	0.30 (2.50)	Light	1P-20A	Sign Light (Road A Board)	2	
3	Lighting	1P-20A	Light	0.58 (4.87)	0.88 (7.37)		4	0.30 (2.50)	Light	1P-20A	Fountain Light	4	1
5	Spare	1P-20A					5	1.66 (13.80)	Motor	1P-20A	Fountain Pump	6	1
7	Spare	1P-20A					7	0.50 (4.17)			EF-2, 485	8	
9	Spare	1P-20A					9	1.30 (10.83)	HVAC	1P-20A	(B-1) label B2 with tape. Boiler	10	
11	WH-1	1P-20A	HVAC	1.40 (11.67)	1.24 (10.33)		11	2.70 (22.50)	HVAC	1P-20A	(B-2) label B1 with tape. Boiler	12	
13	KH-1	1P-20A	HVAC	0.24 (2.00)	1.24 (10.33)		13	1.00 (8.33)	Cont.	1P-20A	Current Transformers	14	
15	RCP3 (Radiant Ceiling Panel)	1P-20A	Light	0.75 (6.25)	1.75 (14.58)		15	1.00 (8.33)	Cont.	1P-20A	Current Transformers	16	
17	Spare	1P-20A					17				Space	18	
19	Space						19				Space	20	
21	Space						21				Space	22	
23	Space						23				Space	24	
25	Space						25				Space	26	
27	HP-15 Heat Pump	2P-30A	HVAC	3.89 (18.70)	1.94 (18.70)		27	1.94 (18.70)			Space	28	
29							29	1.00 (8.33)			Space	30	

Load Calculations				Notes:
Load Type	Connected Load (KVA)	Demand Factor	Demand Load (KVA)	
Misc. Continuous	2.00	1.25	2.50	
Misc. Non-Continuous	0.00	1.00	0.00	
Receptacle to 10KVA	0.00	1.00	0.00	
Receptacle > 10 KVA	0.00	0.50	0.00	
Motors	1.66	1.00	1.66	
Largest Motor	1.66	0.25	0.41	
Lighting	2.15	1.25	2.69	
HVAC	8.63	1.00	8.63	
Kitchen	0.00	1.00	0.00	
Total Demand Load (KVA)			15.89	
			(Amps) 44.16	

LOCATION: ELEC / MECH RM 64
 FED FROM: PANEL 4M1 THRU XFMR "T-7"
 MOUNTING: SURFACE

EXISTING PANEL SCHEDULE
PANEL "2P6"
 208/120VOLT, 3 PHASE, 4 WIRE
 125 AMP MAIN LUGS ONLY

FACILITY: NUD BLDG A

Section 1 of 1

Ckt #	LOAD DESCRIPTION	Breaker Type	Demand Type	Circuit KVA (AMPS)	KVA, (AMPS)			Circuit KVA (AMPS)	Demand Type	Breaker Type	LOAD DESCRIPTION	Ckt #	Note
					Phase A	Phase B	Phase C						
1	EF-2	1P-20A	HVAC	0.50 (4.17)	0.56 (7.17)		2	0.36 (3.00)	Recept	1P-20A	Receptacles	2	
3	Receptacle	1P-20A	Recept	0.90 (7.50)	1.26 (10.50)		3	0.36 (3.00)	Recept	1P-20A	Receptacles	4	
5	Receptacle	1P-20A	Recept	0.36 (3.00)	0.72 (6.00)		5	0.36 (3.00)	Recept	1P-20A	Receptacles	6	
7	Receptacle	1P-20A	Recept	0.36 (3.00)	0.72 (6.00)		7	0.36 (3.00)	Recept	1P-20A	Receptacles	8	
9	Heat Tape	2P-30A	HVAC	6.05 (9.70)	1.36 (12.62)		9	2.00 (16.67)	Recept	1P-20A	Receptacles	10	
11	Printer Duplex	1P-20A	Recept	1.50 (12.50)	2.58 (21.50)		11	2.08 (16.62)	Recept	1P-20A	Receptacles	12	
13							13	1.08 (9.00)	Recept	1P-20A	Receptacles	14	
15	Spare	1P-20A					15				Space	16	
17	Spare	1P-20A					17				Space	18	
19	Spare	1P-20A					19	0.50 (4.17)	N.Cont	1P-20A	HVAC Control	20	
21	Spare	1P-20A					21				Space	22	
23	Spare	1P-20A					23				Space	24	
25	Spare						25				Space	26	
27	Spare						27				Space	28	
29	Spare						29				Space	30	
31	Spare						31				Space	32	
33	Spare						33				Space	34	
35	Spare						35				Space	36	
37	Spare						37				Space	38	
39	Spare						39				Space	40	
41	Spare						41				Space	42	

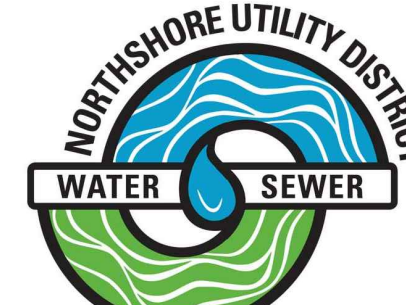
Load Calculations				Notes:
Load Type	Connected Load (KVA)	Demand Factor	Demand Load (KVA)	
Misc. Continuous	0.00	1.25	0.00	
Misc. Non-Continuous	0.50	1.00	0.50	
Receptacle to 10KVA	7.08	1.00	7.08	
Receptacle > 10 KVA	0.00	0.50	0.00	
Motors	0.00	1.00	0.00	
Largest Motor	0.00	0.25	0.00	
Lighting	0.00	1.25	0.00	
HVAC	2.50	1.00	2.50	
Kitchen	0.00	1.00	0.00	
Total Demand Load (KVA)			10.08	
			(Amps) 28.01	

NO	BY	APPD	REVISION	DATE

WARNING
 0 1/2 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



DESIGNED BY	WWK
DRAWN BY	DYA
CHECKED BY	WWK
APPROVAL	WWK
DATE	MAR. 2023



NORTHSHORE UTILITY DISTRICT
 6830 NE 185th St. P.O. Box 82489
 Kenmore, WA 98028-2684 Kenmore, WA 98028-2684
 Ph: (425) 398-4400 | Fax: (425) 398-4430 | www.nud.net

CONTRACT 2021-03
 BUILDING A IMPROVEMENTS
PANEL SCHEDULES



SHEET
 E-6.4
 OF 27

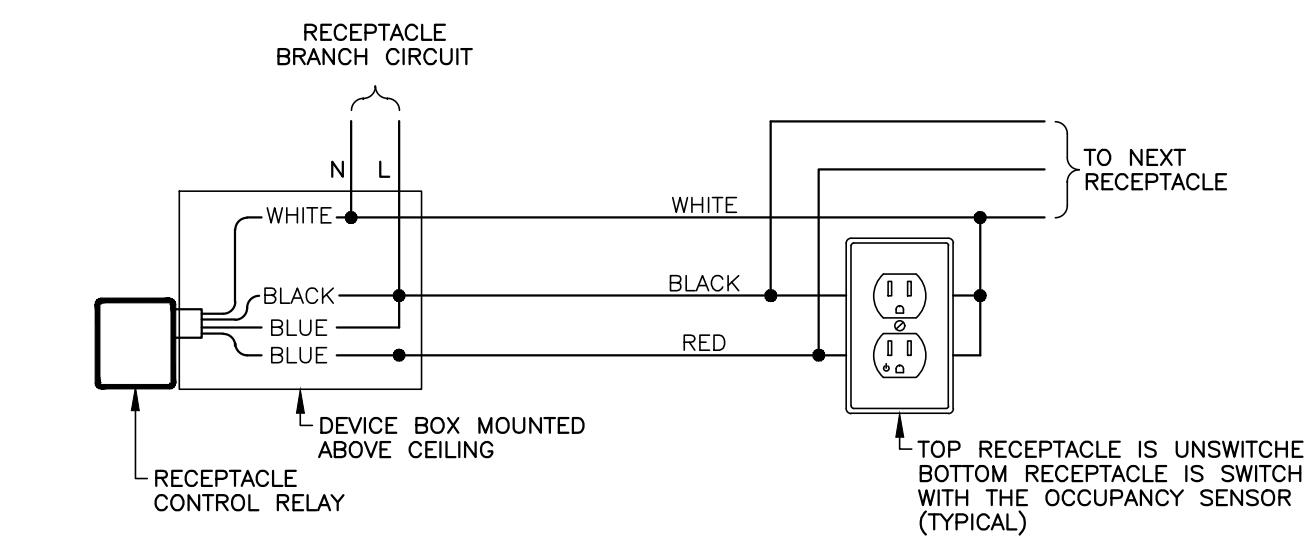
GE ACUITY
nLIGHT LIGHTING CONTROLS SCHEDULE

SYMBOL	DESCRIPTION	MODEL NO.
	OCCUPANCY SENSOR, PASSIVE INFRARED, CORNER MOUNT, WIDE VIEW	nWV 16 KIT
	OCCUPANCY SENSOR, PASSIVE INFRARED, CORNER MOUNT, WIDE VIEW	nWV 16 PDT KIT
	OCCUPANCY SENSOR, PASSIVE INFRARED, CEILING MOUNT, STANDARD RANGE	nCM 9 RJB
	OCCUPANCY SENSOR, PASSIVE INFRARED, CEILING MOUNT, STANDARD RANGE	nCM 9 PDT RJB
	OCCUPANCY SENSOR, PASSIVE INFRARED, CEILING MOUNT, EXTENDED RANGE	nCM 10 PDT RJB
	OCCUPANCY SENSING WALL SWITCH, PASSIVE INFRARED, ON/OFF CONTROL	nWSX LV WH
	OCCUPANCY SENSING WALL SWITCH, DUAL TECHNOLOGY ON/OFF, DIMMING CONTROL	nWSX PDT LV DX WH
	WALL SWITCH, 2 ZONE, ON/OFF, DIMMING CONTROL	nPODM 2P DX WH
	WALL SWITCH, ON/OFF, DIMMING CONTROL	nPODM DX WH
	WALL SWITCH, ON/OFF	nPODM WH
	DAY LIGHT SENSOR DUAL ZONE AUTOMATIC DIMMING CONTROL	nCM ADCX DZ
	NETWORK BACKBONE BRIDGE 8 PORT	nBRG 8 KIT
	RECEPTACLE CONTROL RELAY 20A POWER PACK	nPP20 PL
	LIGHTING LOAD CONTROL RELAY 16A POWER PACK	nPP16
	LIGHTING LOAD CONTROL RELAY WITH 0 TO 10 VOLT DIMMING	nPP16 D

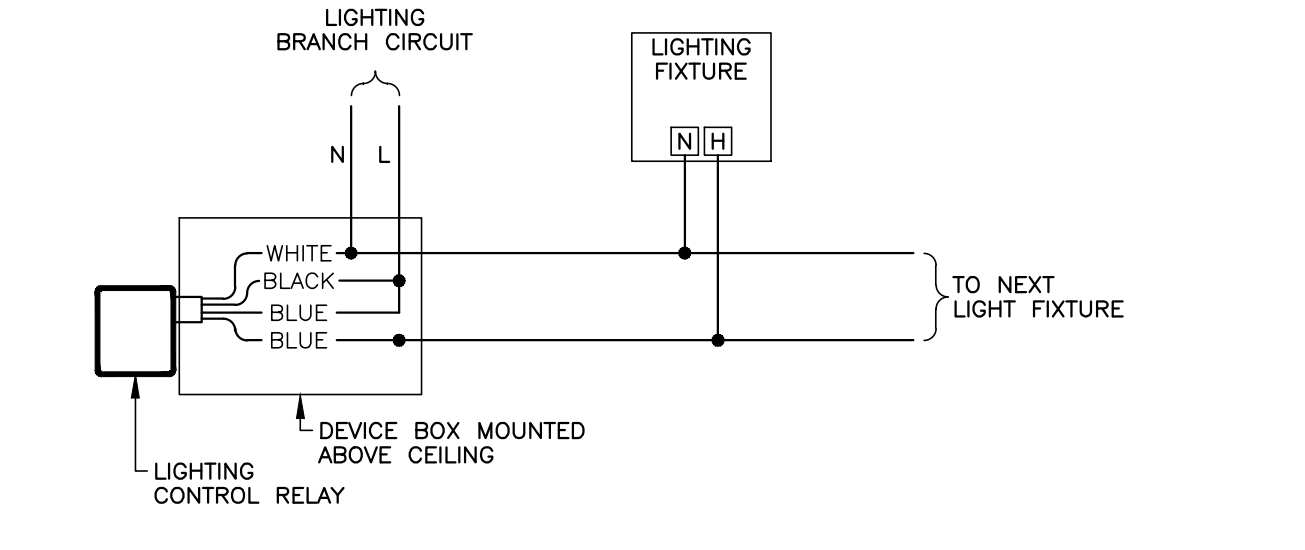
GE ACUITY
LINE VOLTAGE LIGHTING CONTROLS SCHEDULE

SYMBOL	DESCRIPTION	MODEL NO.
	OCCUPANCY SENSOR, PASSIVE INFRARED, CORNER MOUNT, WIDE VIEW	WV 16 KIT
	OCCUPANCY SENSOR, PASSIVE INFRARED, CORNER MOUNT, WIDE VIEW	WV 16 PDT KIT
	OCCUPANCY SENSOR, PASSIVE INFRARED, CEILING MOUNT, STANDARD RANGE	CM 9 RJB
	OCCUPANCY SENSOR, PASSIVE INFRARED, CEILING MOUNT, STANDARD RANGE	CM 9 PDT RJB
	OCCUPANCY SENSOR, PASSIVE INFRARED, CEILING MOUNT, EXTENDED RANGE	CM 10 PDT RJB
	OCCUPANCY SENSING WALL SWITCH, PASSIVE INFRARED, ON/OFF CONTROL	WSX WH

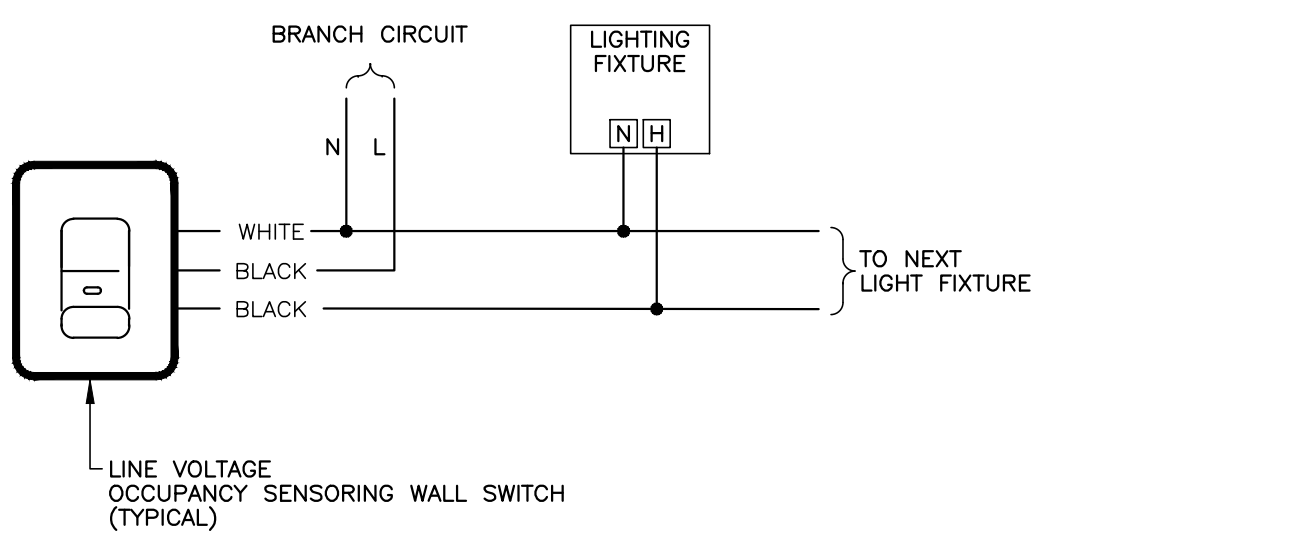
LIGHTING FIXTURE SCHEDULE						
TYPE	DESCRIPTION	MANUFACTURER		LAMP TYPE	INPUT WATTS	NOTES
		NAME	CATALOG NO.			
A5	2x4 LED TROFFER, GRID MOUNTED, 4000K COLOR TEMPERATURE, 4800 LUMENS, 0 TO 10 VOLT DIMMING, nLIGHT ENABLED	MARK ARCHITECTURAL LIGHTING	WHSPR 2X4 90CRI 40K 4800LM MIN1 MVOLT SWC nLIGHT	LED	41.2	
B2	2x2 LED TROFFER, GRID MOUNTED, 4000K COLOR TEMPERATURE, 2000 LUMENS, 0 TO 10 VOLT DIMMING, nLIGHT ENABLED	MARK ARCHITECTURAL LIGHTING	WHSPR 2X2 90CRI 40K 2000LM MIN1 MVOLT SWC nLIGHT	LED	17.6	
B2E	2x2 LED TROFFER, GRID MOUNTED, 4000K COLOR TEMPERATURE, 2000 LUMENS, 0 TO 10 VOLT DIMMING, nLIGHT ENABLED, BATTERY PACK	MARK ARCHITECTURAL LIGHTING	WHSPR 2X2 90CRI 40K 2000LM MIN1 MVOLT SWC nLIGHT E10WCP	LED	17.6	
B3	2x2 LED TROFFER, GRID MOUNTED, 4000K COLOR TEMPERATURE, 3300 LUMENS, 0 TO 10 VOLT DIMMING, nLIGHT ENABLED	MARK ARCHITECTURAL LIGHTING	WHSPR 2X2 90CRI 40K 3300LM MIN1 MVOLT SWC nLIGHT	LED	29.8	
B4	2x2 LED TROFFER, GRID MOUNTED, 4000K COLOR TEMPERATURE, 4000 LUMENS, 0 TO 10 VOLT DIMMING, nLIGHT ENABLED	MARK ARCHITECTURAL LIGHTING	WHSPR 2X2 90CRI 40K 4000LM MIN1 MVOLT SWC nLIGHT	LED	37.4	
C3	2x4 LED FLAT PANEL, DRYWALL MOUNTED, 4000K COLOR TEMPERATURE, 3000 LUMENS, 0 TO 10 VOLT DIMMING	LITHONIA LIGHTING	EPANL 2X4 3000LM 80CRI 40K MIN1 MVOLT	LED	38	
C4	2x4 LED FLAT PANEL, SURFACE MOUNTED, 4000K COLOR TEMPERATURE, 3000 LUMENS, 0 TO 10 VOLT DIMMING	LITHONIA LIGHTING	EPANL 2X4 3000LM 80CRI 40K MIN1 MVOLT (2X4SMKSH)	LED	38	SURFACE MOUNT TROFFER KIT
D8	8FT CERRA 10 INDIRECT/DIRECT SUSPENDED LED, 4000K COLOR TEMPERATURE, 700 LMF INDIRECT AND 300LMF DIRECT OUTPUT, nLIGHT ENABLED	PEERLESS	10CRM4L LLP 8FT MSL8FT MSL8 80CRI SSH I700LMF 300LMF MIN1 nLIGHT MVOLT SCT F11/12F	LED	70.8	
E5	2x2 LED FLAT PANEL, SURFACE MOUNTED, 4000K COLOR TEMPERATURE, 4800 LUMENS, 0 TO 10 VOLT DIMMING	LITHONIA LIGHTING	EPANL 2X2 4800LM 80CRI 40K MIN1 nLIGHT MVOLT (DGA22)	LED	45	DRYWALL GRID ADAPTER
F4	4FT LED SURFACE MOUNTED, 4000K COLOR TEMPERATURE, 3600 LUMENS	PEERLESS	BRW9L S LLP 4FT MSL4 90CRI 40K 900LMF 120 SCT C110	LED	28.2	
G4	4FT LED WALL MOUNTED, 4000K COLOR TEMPERATURE, 3600 LUMENS	PEERLESS	BRW9L S LLP 4FT MSL4 90CRI 40K 900LMF 120 SCT C110	LED	39.5	
H2	6" ROUND LED RECESSED CAN DOWNLIGHT, 4000K COLOR TEMPERATURE, 2000 LUMENS, nLIGHT ENABLED	LITHONIA LIGHTING	LDN6 40/20 L06AR LSS 120 EZ10 NPS80EZ	LED	22.5	
J1	4" ROUND LED RECESSED CAN DOWNLIGHT, 4000K COLOR TEMPERATURE, 1000 LUMENS, nLIGHT ENABLED	LITHONIA LIGHTING	LDN4 40/10 L04AR LSS 120 EZ10 NPS80EZ	LED	22.5	
L1	RECESSED 3 LIGT LED MINI SPOTLIGHT, 4000K COLOR TEMPERATURE, 805x3 LUMENS	WAC LIGHTING	MT-3LD311NA-F40-BK	LED	33	
K2	6" SQUARE LED RECESSED CAN DOWNLIGHT, 4000K COLOR TEMPERATURE, 2000 LUMENS	LITHONIA LIGHTING	LDN6SQ 40/20 L66AR LSS 120	LED	22.5	
M	LED COVE LIGHT, 4000K COLOR TEMPERATURE	Q-LINK	Q-LINK-SST-DRY-40 DF WH-xx	LED	5W PER FT	PROVIDE LENGTHS PER PLAN DRAWINGS
UC2	24" LED UNDERCABINET LIGHT	JUNO LIGHTING	UCES 24IN SSWW4 90CRI WH M6	LED	10.8	
EGRESS	2 HEAD LED EMERGENCY EGRESS LIGHT, WHITE HOUSING, BATTERY BACKUP	MULE LIGHTING	SQ-LED-W-SD	LED	2	
EXIT	LED EXIT SIGN WITH 2 HEAD LED EGRESS LIGHTS, GREEN LETTERS ON WHITE BACKGROUND, BATTERY BACKUP	MULE LIGHTING	MDC-x-G-W-W	LED	4.8	



1 CONTROLLED RECEPTACLE WIRING DIAGRAM
E6.5 SCALE: NONE



2 LIGHTING CONTROL W/O DIMMING WIRING DIAGRAM
E6.5 SCALE: NONE
NOTE: THIS DIAGRAM ONLY APPLIES TO NON-nLIGHT ENABLED FIXTURES.

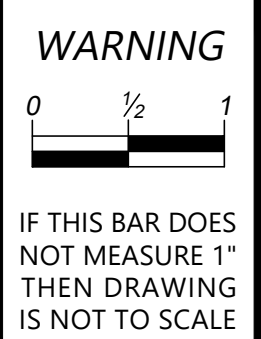


3 LINE VOLTAGE OCC. SENSOR WALL SWITCH WIRING DIAGRAM
E6.5 SCALE: NONE

Lighting Controls by Room

	3	4	5	6	7	10	10A	11	15	16	17	17	18	19	20	22	23	24	25	26A	26B	27	28	30	30A	30B	31	32	35	41	44	44A	44B	46	47	48	49	50	51	
Manual On	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Manual Off	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Occupancy Sensor On at 50%	x										x																													
Occupancy Sensor On Full											x																													
Occupancy Sensor Off at 50%																																								
Occupancy Sensor Off Full	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Daylighting Dimming	x																																							

NO	BY	APPD	REVISION	DATE



Gray & Osborne, Inc.
CONSULTING ENGINEERS

DESIGNED BY	WWK
DRAWN BY	DYA
CHECKED BY	WWK
APPROVAL	WWK
DATE	MAR. 2023

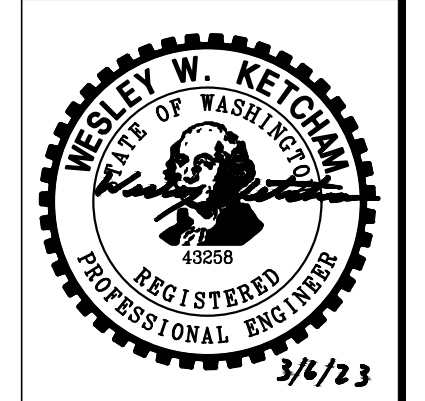
NORTHSHORE UTILITY DISTRICT
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CONTRACT 2021-03
BUILDING A IMPROVEMENTS

LIGHTING SCHEDULES AND CONTROL WIRING

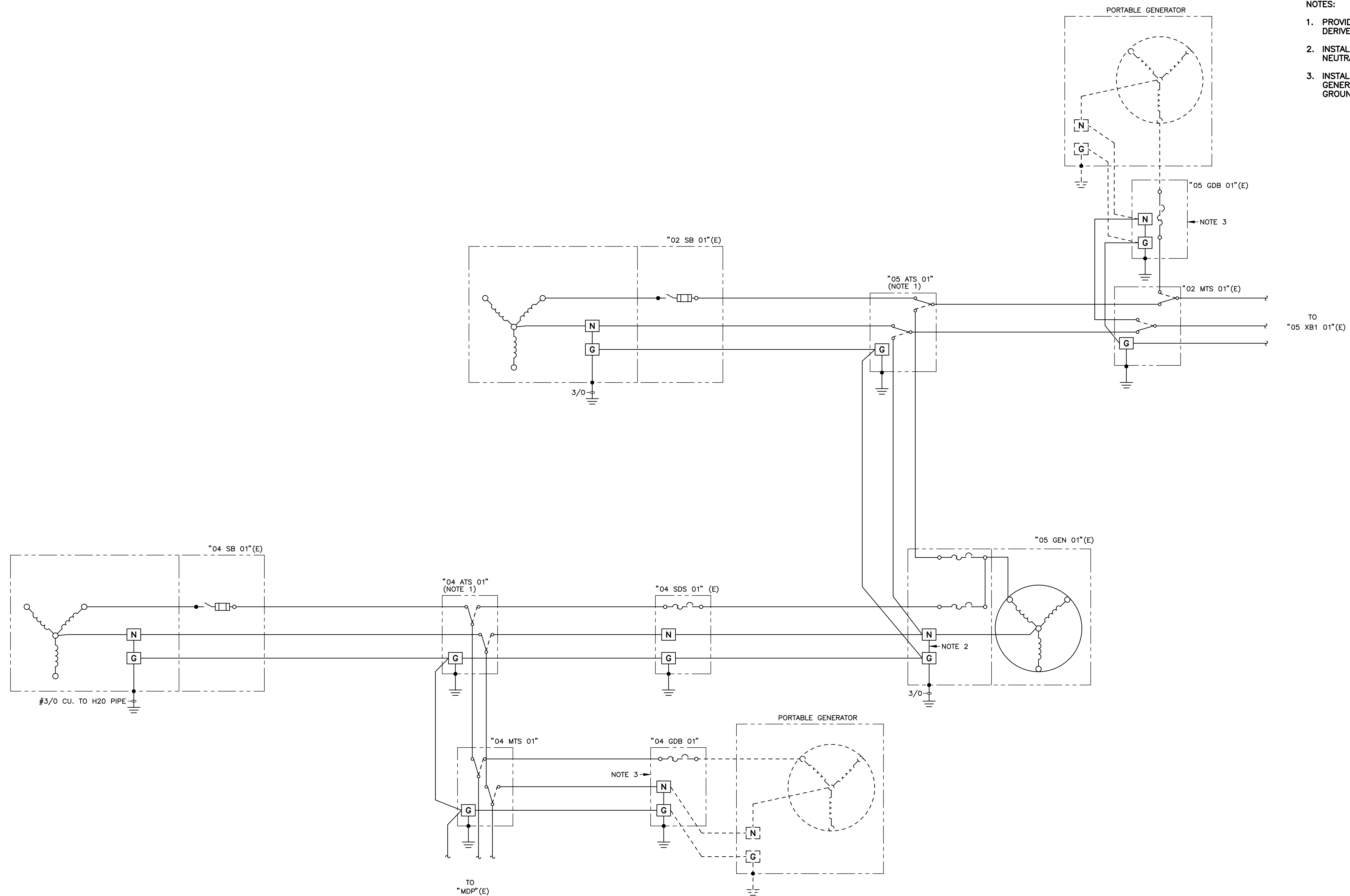
SHEET

E-6.5
OF 27



GENERAL NOTES:
 A. NEW TAGS ARE ASSIGNED TO SOME EXISTING EQUIPMENT, FOR EASY IDENTIFICATION AND REFERENCE. ALL EXISTING EQUIPMENT TAGS ENDS WITH A SUFFIX (E),

- NOTES:
1. PROVIDE NEW 4POLE ATS TO ENSURE A SEPARATELY DERIVED GROUNDING SYSTEM.
 2. INSTALL BONDING JUMPER BETWEEN GENERATOR NEUTRAL AND GROUND.
 3. INSTALL BONDING JUMPER BETWEEN PORTABLE GENERATOR CIRCUIT BREAKER NEUTRAL AND GROUND. CONNECT TO GROUND ELECTRODE.



1 REVISED MAIN GROUNDING NETWORK
 E-6.7 SCALE: NONE



NO	BY	APPD	REVISION	DATE

WARNING
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Gray & Osborne, Inc.
 CONSULTING ENGINEERS

DESIGNED BY	WWK
DRAWN BY	DYA
CHECKED BY	WWK
APPROVAL	WWK
DATE	MAR. 2023

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 WATER SEWER

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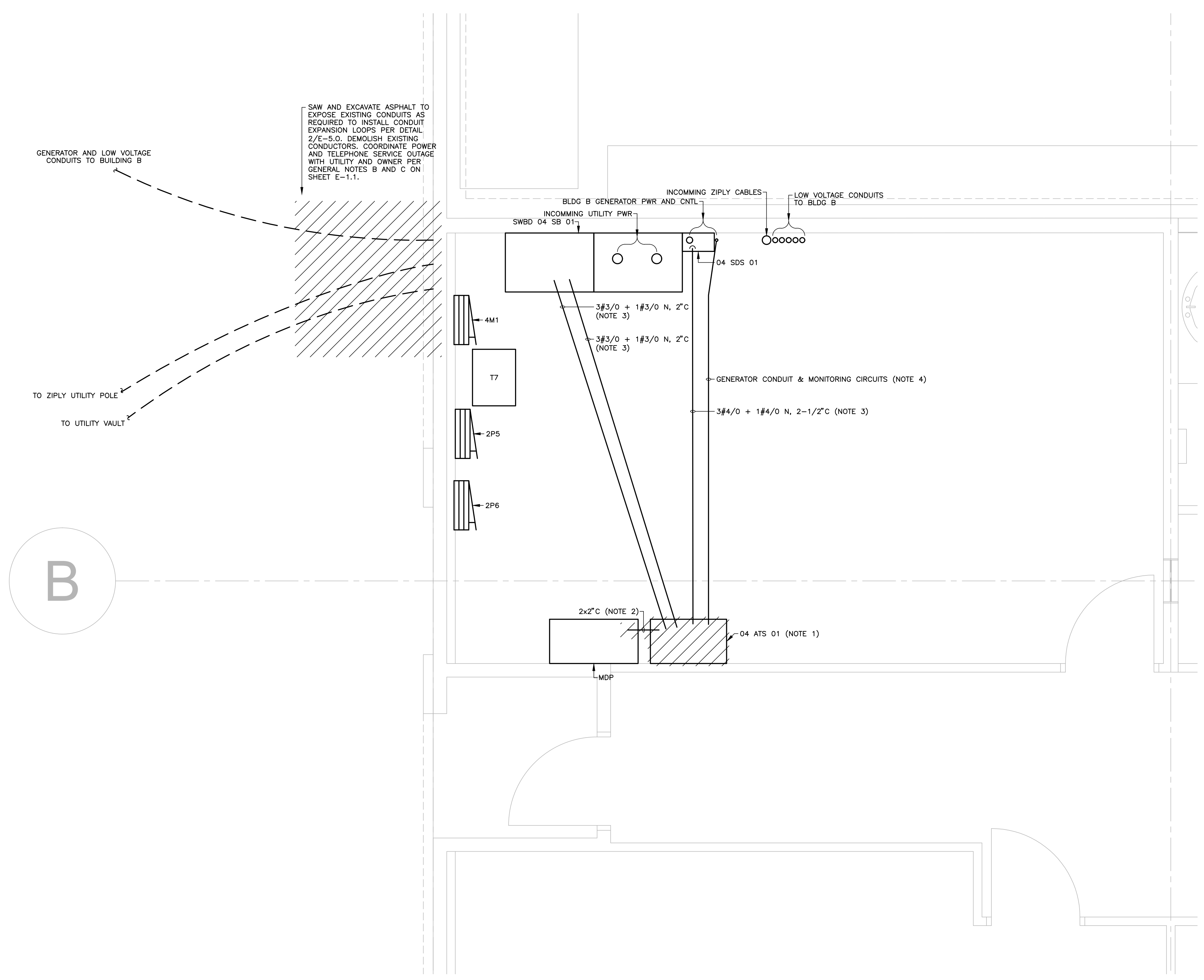
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 BUILDING A IMPROVEMENTS

REVISED MAIN GROUNDING NETWORK

SHEET

E-6.6
 OF 27



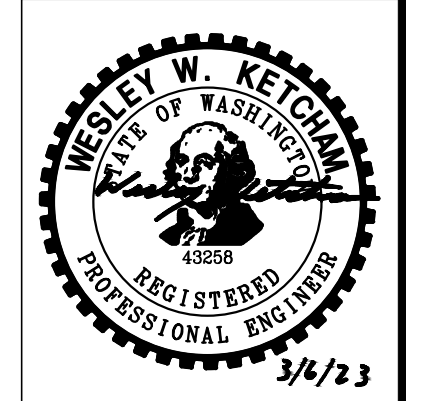
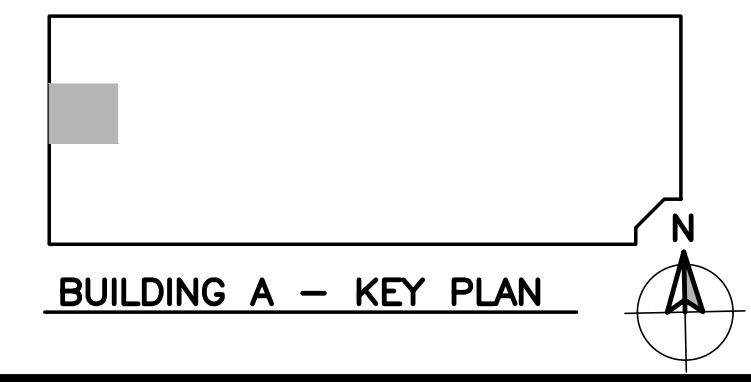
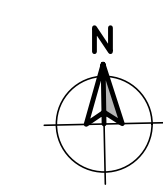
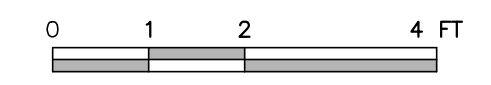
GENERAL NOTES:

A. THIS SITE PLAN IS DEVELOPED BASED ON INFORMATION GATHERED FROM PATH ENGINEERS INC. NORTSHORE UTILITY DISTRICT SERVICE CENTER PROJECT CIRCA 1997 AND GRAY & OSBORNE NORTSHORE UTILITY DISTRICT HEADQUARTERS REDEVELOPMENT PROJECT CIRCA 2012 AND FIELD INVESTIGATION. CONTRACTOR SHALL VERIFY AS NEEDED.

B. NOTE ALL EXISTING ELECTRICAL EQUIPMENT AND PATHWAY SHOWN FOR CLARITY.

- NOTES:**
1. DEMOLISH EXISTING 3P ATS AND REPLACE WITH 4P TYPE. REUSE CONDUIT AND CONDUCTORS BETWEEN ATS AND GENERATOR DISCONNECT SWITCH. SEE REVISED ELECTRICAL SITE PLAN SHEET E-1.0.
 2. DEMOLISH EXISTING CONDUITS AND CONDUCTORS BETWEEN "04 ATS 01" AND "MDP"
 3. PRESERVE EXISTING CONDUIT AND CONDUCTORS FOR RECONNECTION TO NEW ATS.
 4. DEMOLISH EXISTING CONDUCTORS AS PART OF CONDUIT EXPANSION LOOP INSTALLATION. PRESERVE EXISTING CONDUIT BETWEEN "04 SDS 01" AND "04 ATS 01" FOR REUSE.

BUILDING A - WEST ELECTRICAL DEMOLITION PLAN
SCALE: 1/2" = 1'-0"



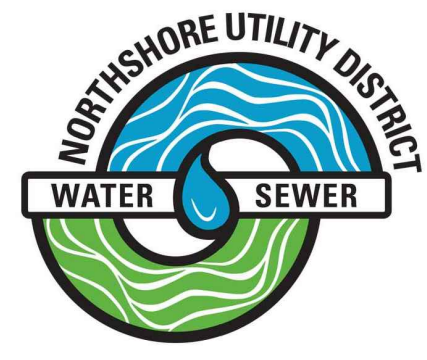
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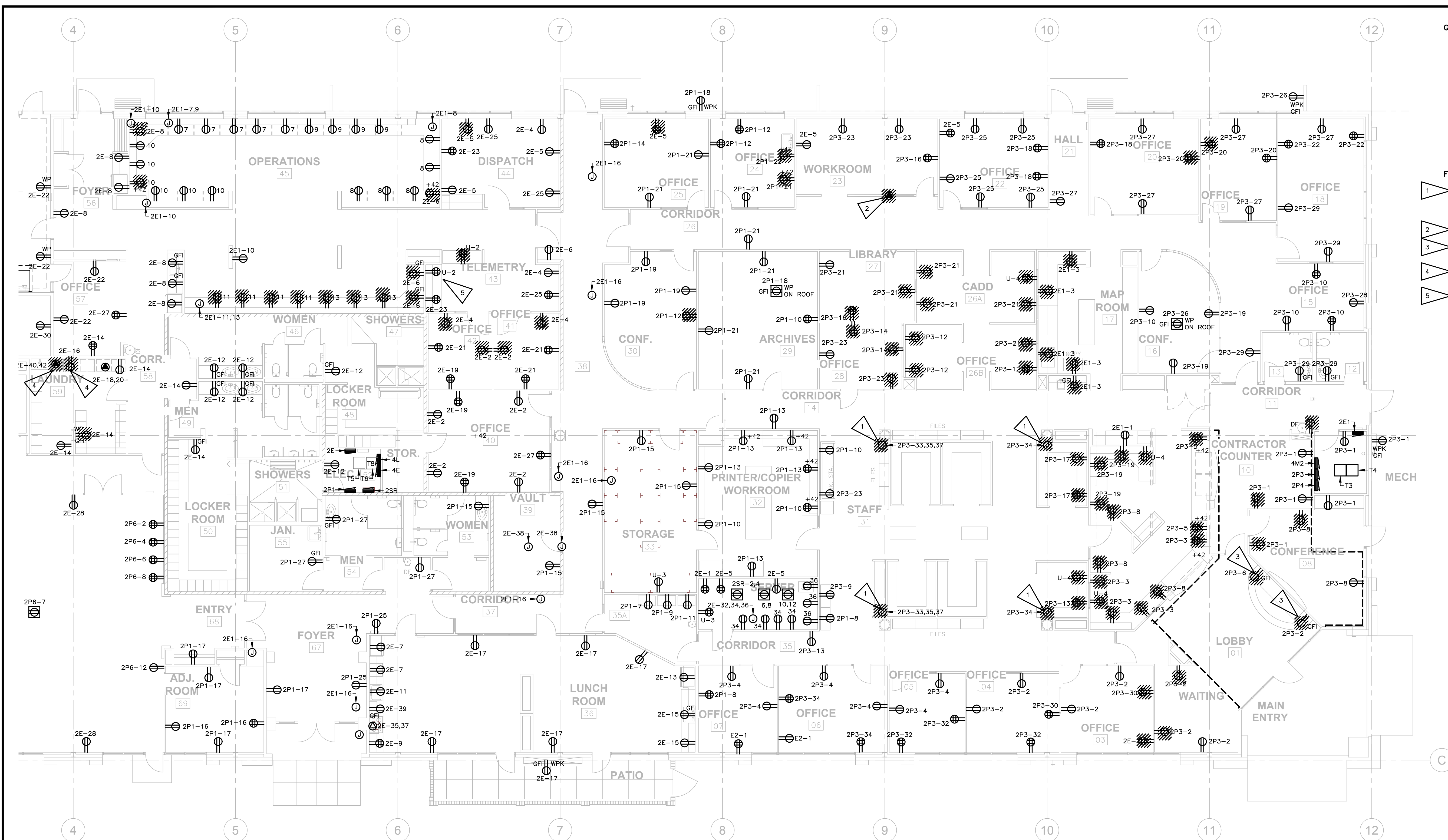
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DRAWN BY	DYA
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APPROVAL	WWK
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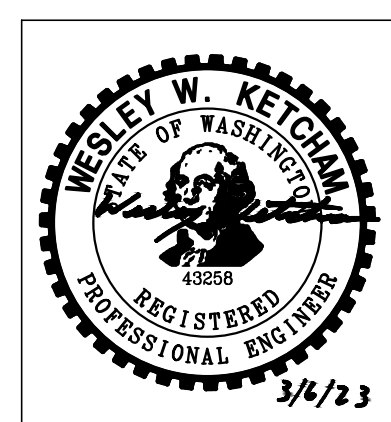
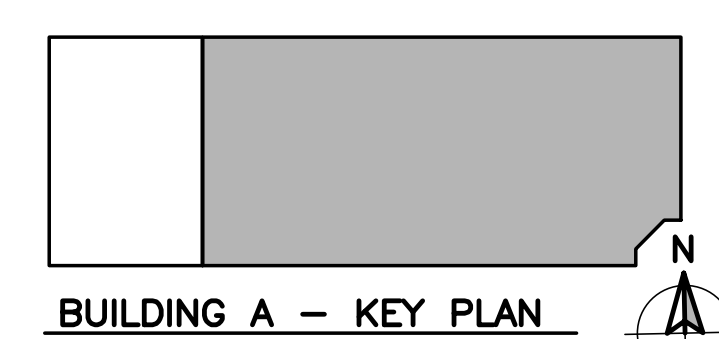
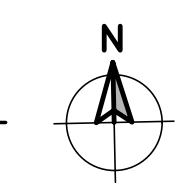
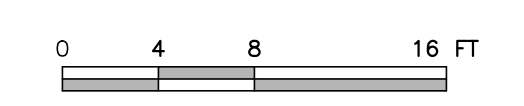
CONTRACT 2021-03
BUILDING A IMPROVEMENTS
**BUILDING A - WEST
ELECTRICAL DEMOLITION PLAN**

SHEET
ED-1.11
OF 27



- GENERAL NOTES:**
- A. THIS SITE PLAN IS DEVELOPED BASED ON INFORMATION GATHERED FROM PATH ENGINEERS INC. NORTHSHORE UTILITY DISTRICT SERVICE CENTER PROJECT CIRCA 1997 AND GRAY & OSBORNE NORTHSHORE UTILITY DISTRICT HEADQUARTERS REDEVELOPMENT PROJECT CIRCA 2012 AND FIELD INVESTIGATION. CONTRACTOR SHALL VERIFY AS NEEDED.
 - B. CROSS HATCHING INDICATES ELECTRICAL DEVICES TO BE DEMOLISHED. PRESERVE HOMERUNS FROM JUNCTION BOX ABOVE CEILING TO PANELBOARD FOR REUSE.
- FLAG NOTES:**
- 1 DEMOLISH BRANCH CIRCUIT CONDUCTOR FROM JUNCTION BOX ABOVE CEILING TO MODULAR OFFICE PANELS. PRESERVE HOMERUN CIRCUITS FOR RECONNECTION.
 - 2 DEMOLISH RECEPTACLE POLE.
 - 3 DEMOLISH GFI RECEPTACLES AND FOUNTAIN PUMP IF ANY.
 - 4 RELOCATE LAUNDRY WASHER AND DRYER RECEPTACLES PER SHEET E1-12.
 - 5 PRESERVE AND PROTECT THE EXISTING TELEMETRY PANEL THROUGHOUT CONSTRUCTION. THE TELEMETRY SYSTEM MUST REMAIN OPERATIONAL.

1 BUILDING A - EAST ELECTRICAL DEMOLITION PLAN
 ED-1.1 SCALE: 1/8" = 1'-0"



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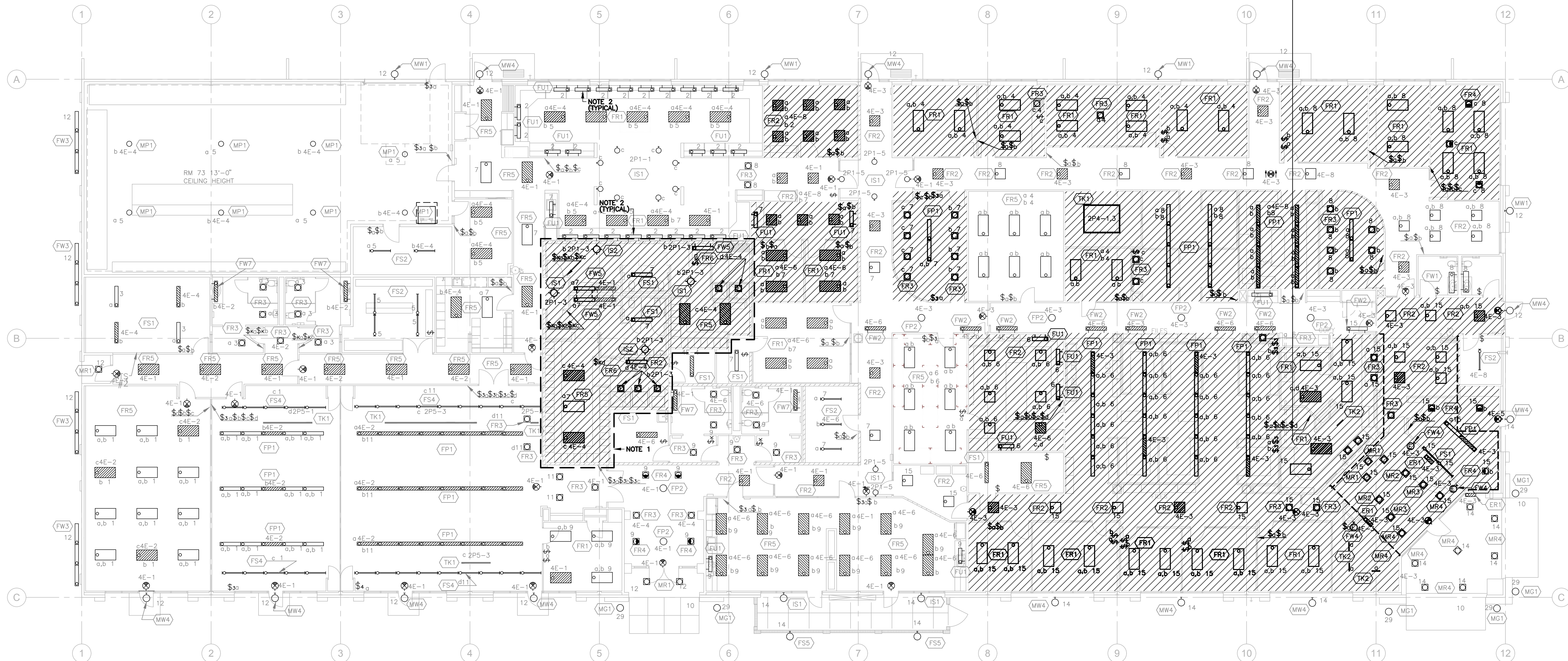
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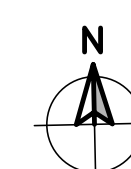
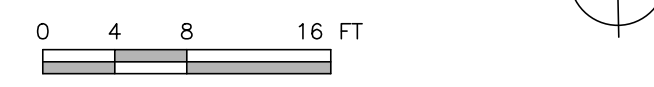
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CONTRACT 2021-03
 BUILDING A IMPROVEMENTS

**BUILDING A - EAST
 ELECTRICAL DEMOLITION PLAN**



1 BUILDING A LIGHTING DEMOLITION PLAN
 ED-1.2 SCALE: 3/32" = 1'-0"

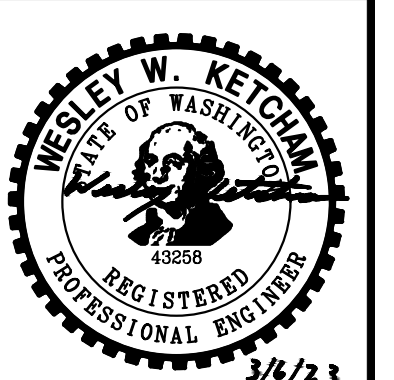


GENERAL NOTES:

- A. THIS EXISTING LIGHTING PLAN IS DEVELOPED BASED ON INFORMATION GATHERED FROM PATH ENGINEERS INC. NORTHSHORE UTILITY DISTRICT SERVICE CENTER PROJECT CIRCA 1997 AND GRAY & OSBORNE NORTHSHORE UTILITY DISTRICT HEADQUARTERS REDEVELOPMENT PROJECT CIRCA 2012 AND FIELD INVESTIGATION. CONTRACTOR SHALL VERIFY AS NEEDED.
- B. EXISTING LIGHTING CIRCUITS ARE FED FROM PANELBOARDS 2P4, 2P5, 4L AND 4E.
- C. DEMOLISH LIGHT FIXTURES AND SWITCHES IN CROSS HATCHED AREAS. DEMOLISH INDIVIDUAL SWITCHED FIXTURE CIRCUITS, PRESERVE BRANCH CIRCUIT HOME RUNS FOR REUSE, UNLESS NOTED OTHERWISE.

NOTES:

- 1. DEMOLISH EXISTING BATHROOM FIXTURES AND SWITCHES. PRESERVE FIXTURE BOXES AND WIRING FOR REUSE.
- 2. DISCONNECT TASK LIGHTING BRANCH CIRCUITS PRIOR TO CASEWORK DEMOLITION. PRESERVE BRANCH CIRCUITS FOR RECONNECTION TO NEW CASEWORK TASK LIGHTING.

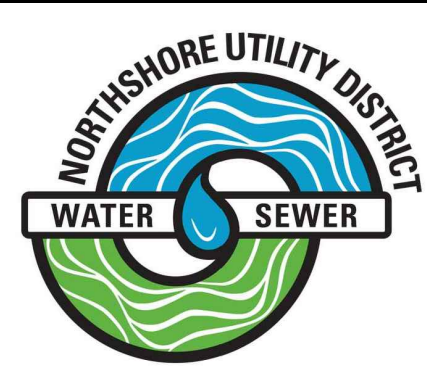


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DATE	MAR. 2023



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CONTRACT 2021-03
 BUILDING A IMPROVEMENTS
**BUILDING A
 LIGHTING DEMOLITION PLAN**

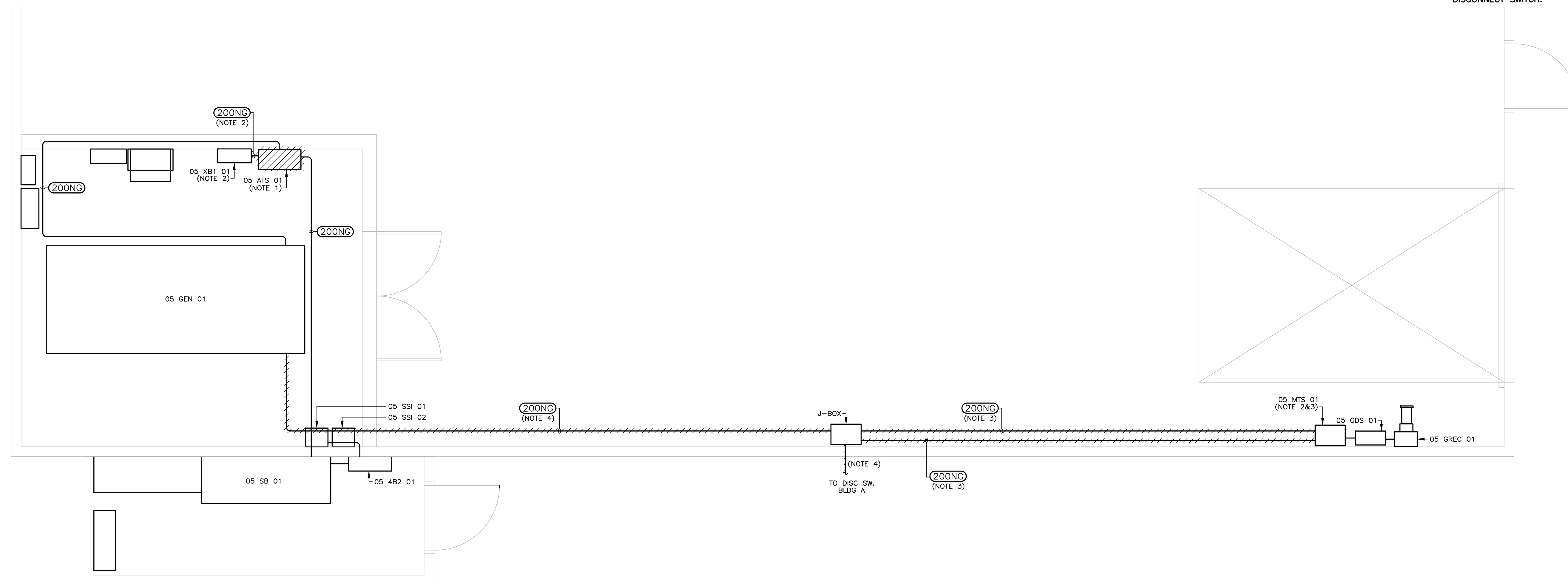
SHEET
 ED-1.13
 OF 27

GENERAL NOTES:

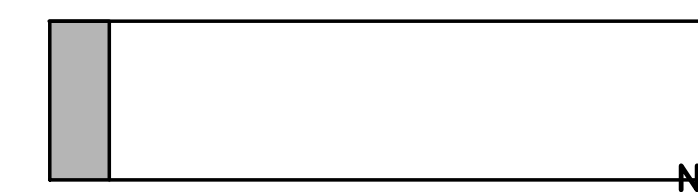
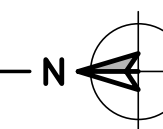
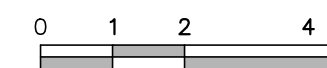
- A. THIS EXISTING BUILDING PLAN WAS DEVELOPED FROM AND GRAY & OSBORNE NORTSHORE UTILITY DISTRICT HEADQUARTERS EDEVELOPMENT PROJECT CIRCA 2012. CONTRACTOR SHALL FIELD VERIFY.
- B. CABLE CALL OUTS ARE REFERENCED FROM EXISTING DRAWING.
- C. SEE REVISED ONE LINE DIAGRAM AND REVISED BUILDING B ELECTRICAL PLAN ON SHEETS E-6.0 AND E-0.2 RESPECTIVELY FOR MODIFICATION DETAILS.

NOTES:

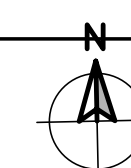
- 1. DEMOLISH AND REPLACE EXISTING 3P ATS WITH NEW 4P ATS.
- 2. DEMOLISH EXISTING CONDUIT AND CONDUCTORS IDENTIFIED AS "P0507" BETWEEN "05 ATS 01" AND "05 XB 01". PROVIDE NEW CABLE AND ROUTING PATH FROM "05 MTS 01" TO "05 XB 01".
- 3. KEEP CONDUIT IN PLACE FOR REUSE, DISCONNECT EXISTING CONDUCTORS IDENTIFIED AS "P0509" AND "P0512" FROM "05 MTS 01".
- 4. KEEP CONDUIT IN PLACE FOR REUSE, PROVIDE NEW CONDUCTOR BETWEEN "05 GEN 01" AND DISCONNECT SWITCH IN BUILDING A. REUSE EXISTING CONDUIT BETWEEN "JB" AND DISCONNECT SWITCH.



BUILDING B -- WEST ELECTRICAL DEMOLITION PLAN
SCALE: 3/8" = 1'-0"



BUILDING B -- KEY PLAN

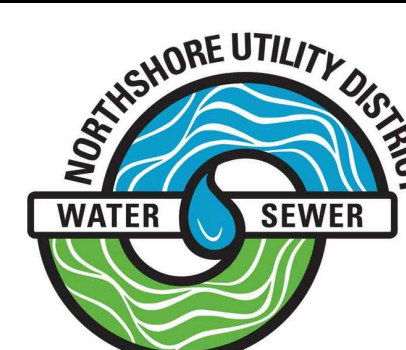


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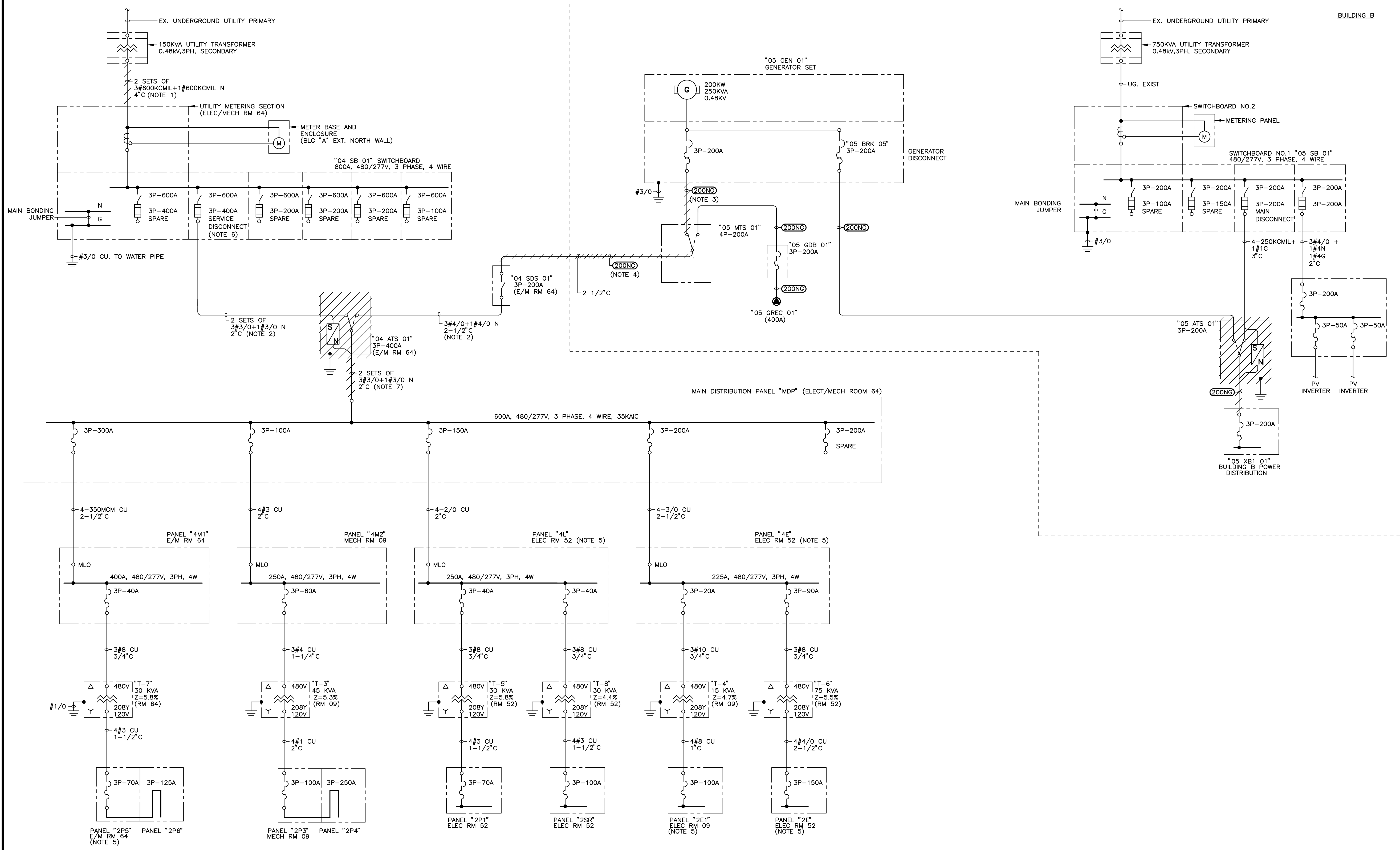


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BUILDING A IMPROVEMENTS
**BUILDING B - WEST
ELECTRICAL DEMOLITION PLAN**

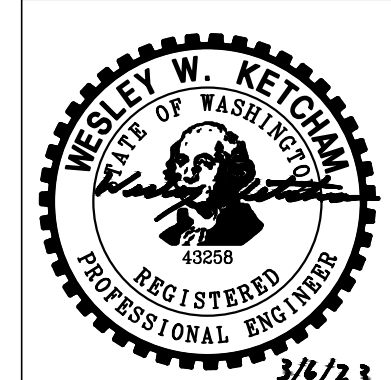
SHEET

ED-1.21
OF 27

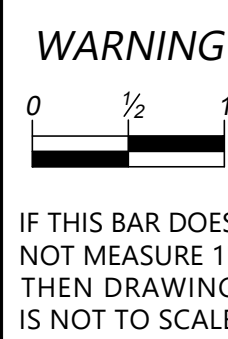


- GENERAL NOTES:**
- A. THIS EXISTING ONE LINE DIAGRAM WAS DEVELOPED FROM PATH ENGINEERS INC. NORTHSORE UTILITY DISTRICT SERVICE CENTER PROJECT CIRCA 1997 AND GRAY & OSBORNE NORTHSORE UTILITY DISTRICT HEADQUARTERS REDEVELOPMENT PROJECT CIRCA 2012. CONTRACTOR SHALL FIELD VERIFY.
- NOTES:**
1. CONTRACTOR SHALL REMOVE AND REPLACE CONDUCTORS BETWEEN UTILITY TRANSFORMER AND THE UTILITY METERING SECTION. SEE SITE ELECTRICAL CONNECTION PLAN E-1.1, FOR INSTALLATION DETAILS AND REQUIREMENTS.
 2. PRESERVE EXISTING CONDUIT AND CONDUCTORS FOR RECONNECTION.
 3. DEMOLISH CONDUCTORS. PRESERVE CONDUIT PATHWAY BETWEEN "05 MTS 01" AND GENERATOR ROOM FOR REUSE AS PRACTICABLE.
 4. DEMOLISH CONDUCTORS. MODIFY CONDUIT PATHWAY PER SHEET E-1.1.
 5. FOR DETAILS ON MODIFICATION TO BE PERFORMED SEE EXISTING ELECTRICAL POWER PLAN ED-1.11 AND ED-1.12
 6. FUSE SIZE RATING TO BE VERIFIED UPON DE-ENERGIZATION OF SWITCHBOARD.
 7. DEMOLISH EXISTING CONDUCTORS AND CONDUITS BETWEEN "04 ATC 01" AND "MDP". SEE REVISED ONE LINE DIAGRAM ON SHEET E-6.0 FOR FURTHER MODIFICATION DETAILS.

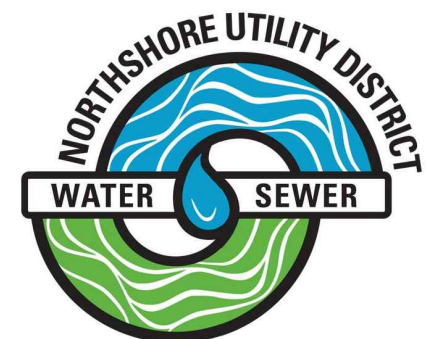
1 EXISTING ONELINE DIAGRAM
ED-6.0 SCALE: NONE



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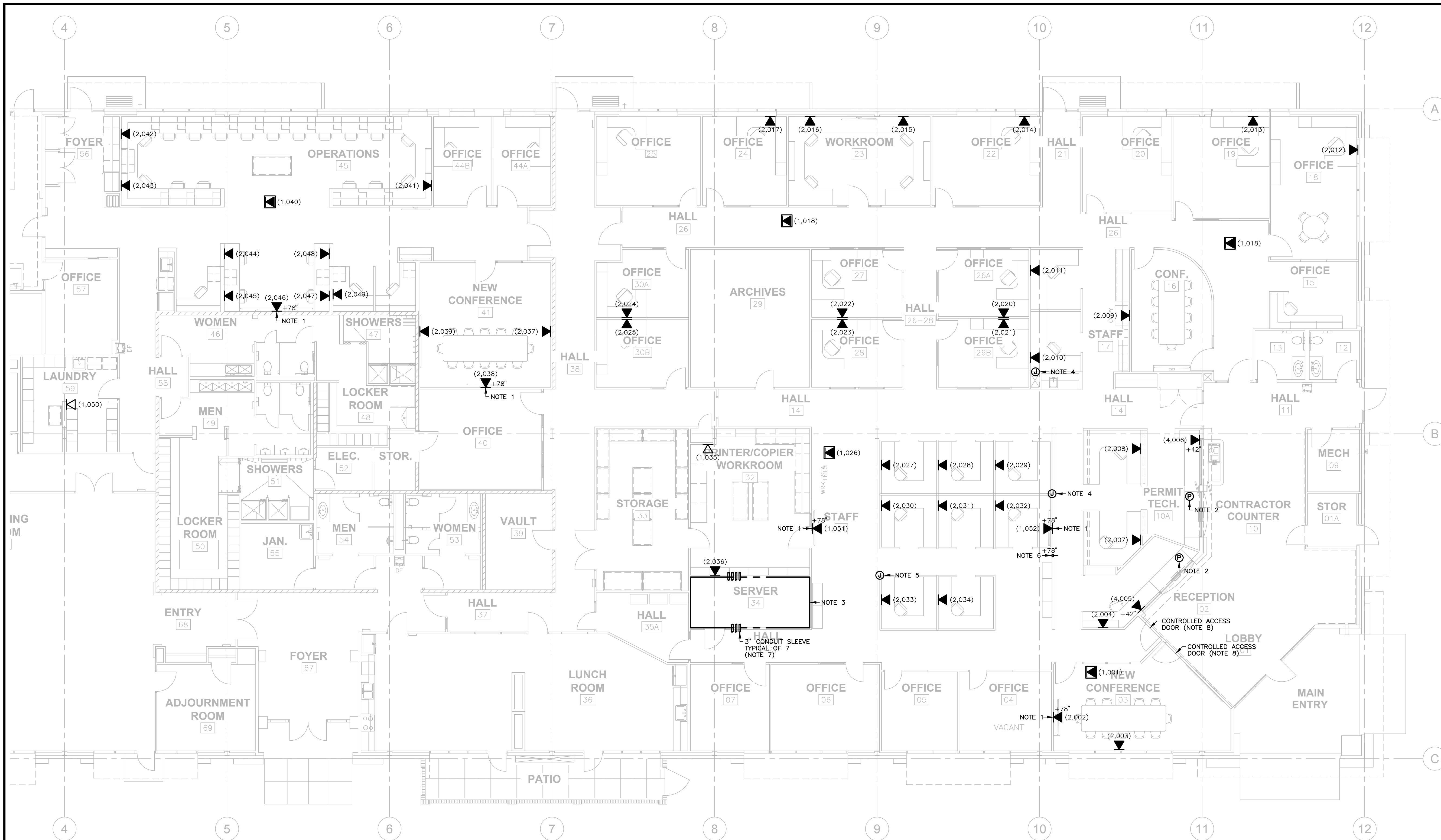
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APPROVAL	WWK
DATE	MAR. 2023



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 BUILDING A IMPROVEMENTS
EXISTING ONELINE DIAGRAM

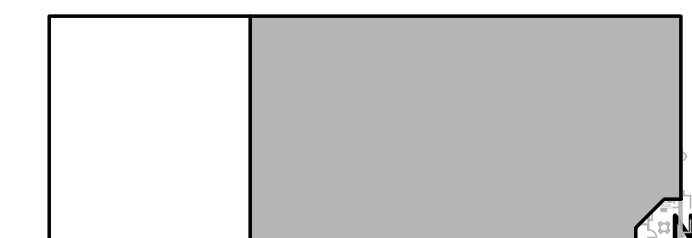
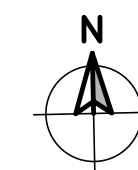
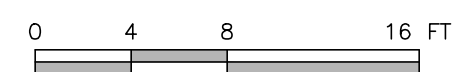
SHEET
 ED-6.0
 OF 27



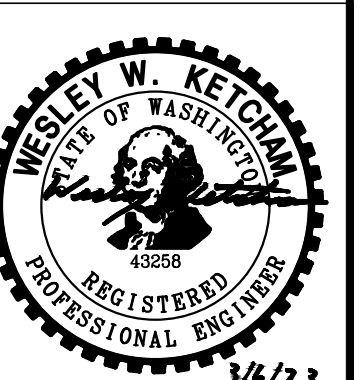
- GENERALS NOTES:**
- A. FOR EACH TELECOMMUNICATIONS OUTLET PROVIDE A DOUBLE GANG DEVICE BOX WITH SINGLE GANG REDUCING MUD RING. PROVIDE A 3" CONDUIT FROM THE DEVICE BOX TO ABOVE THE ACCESSIBLE CEILING FOR OUTLETS WITH 2 PORTS OR LESS. PROVIDE A 1" CONDUIT FROM DEVICE BOX TO ABOVE ACCESSIBLE CEILING FOR OUTLETS WITH 3 OR 4 PORTS.
 - B. LOW VOLTAGE CONDUIT PATHWAY CONCEALED IN WALL OR ABOVE CEILING TILES SHALL BE SCH 40 PVC.
 - C. PROVIDE J-HOOK SUPPORTS FOR HORIZONTAL CABLING ROUTED ABOVE CEILING.
 - D. LABEL WORKSTATION OUTLET PER THE SPECIFICATIONS.
 - E. SEE SHEET T-5.1 FOR ADDITIONAL DETAILS.

- NOTES:**
- 1. INSTALL OUTLET IN TV WALL WALL BOX. PROVIDE AN ADDITIONAL 1-1/4" CONDUIT FROM LOW VOLTAGE SIDE OF WALL BOX TO ACCESSIBLE CEILING SPACE.
 - 2. REINSTALL PANIC BUTTON UNDER THE COUNTER. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 1" CONDUIT FROM UNDER THE COUNTER NEAR THE PANIC BUTTON TO ABOVE THE ACCESSIBLE CEILING.
 - 3. PROVIDE THREE (3) 49 PORT WORKSTATION PATCH PANELS IN OWNERS EXISTING TELECOM RACK TO TERMINATE NEW WORKSTATION CABLES. COORDINATE RACK LOCATION WITH OWNER.
 - 4. PROVIDE DOUBLE GANG DEVICE BOX IN WALL AT 18" AFF TO ROUTE CAT6 CABLING INTO MODULAR FURNITURE. PROVIDE 1" CONDUIT FROM DEVICE BOX TO ABOVE ACCESSIBLE CEILING.
 - 5. ROUTE CAT 6 CABLING IN POWER POLE FROM CEILING TO MODULAR FURNITURE.
 - 6. PROVIDE DOUBLE GANG DEVICE BOX MOUNTED AT 84" AFF WITH 1" CONDUIT TO ABOVE ACCESSIBLE CEILING IN ROOM 10A FOR OWNER PROVIDED EQUIPMENT.
 - 7. PROVIDE 7-3" CONDUIT SLEEVES WITH END BELLS BETWEEN THE SERVER ROOM AND THE ACCESSIBLE CEILING SPACE IN THE ADJACENT ROOM. ROUTE NEW CONDUCTORS THROUGH SLEEVES. SPARE SLEEVES ARE FOR FUTURE USE.
 - 8. DOOR WILL HAVE AN ACCESS CARD READER AND ELECTRIC STRIKE. DOOR CONTROL HARDWARE PROVIDED BY OWNER. CONTRACTOR SHALL PROVIDE BOXES AND PATHWAY FOR DOOR CONTROL HARDWARE. SEE DETAIL 1/T-5.1 FOR REQUIREMENTS.

LOW VOLTAGE PLAN
SCALE: 1/8" = 1'-0"



BUILDING A - KEY PLAN

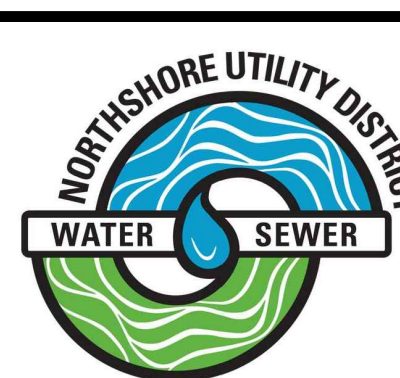


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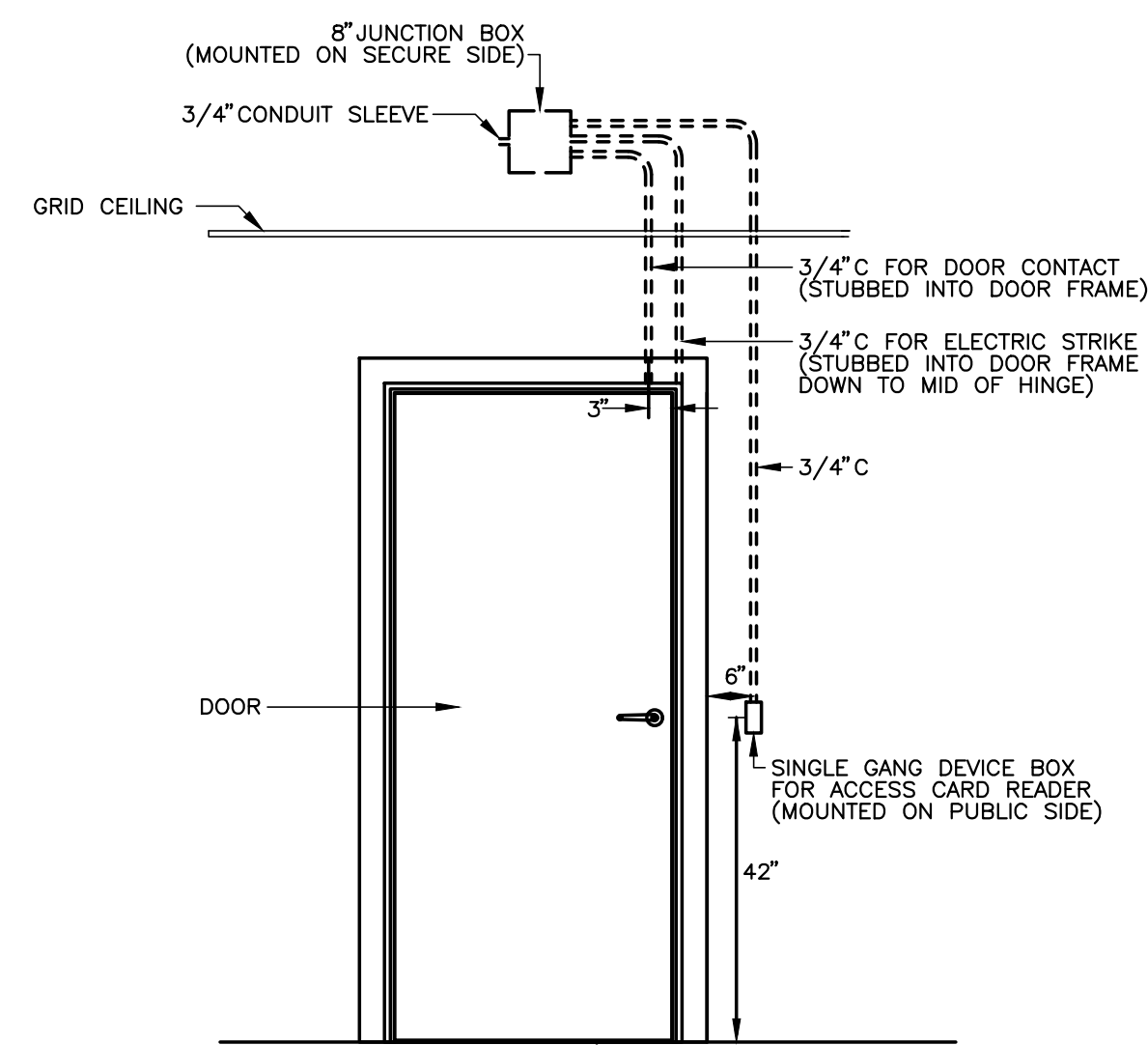
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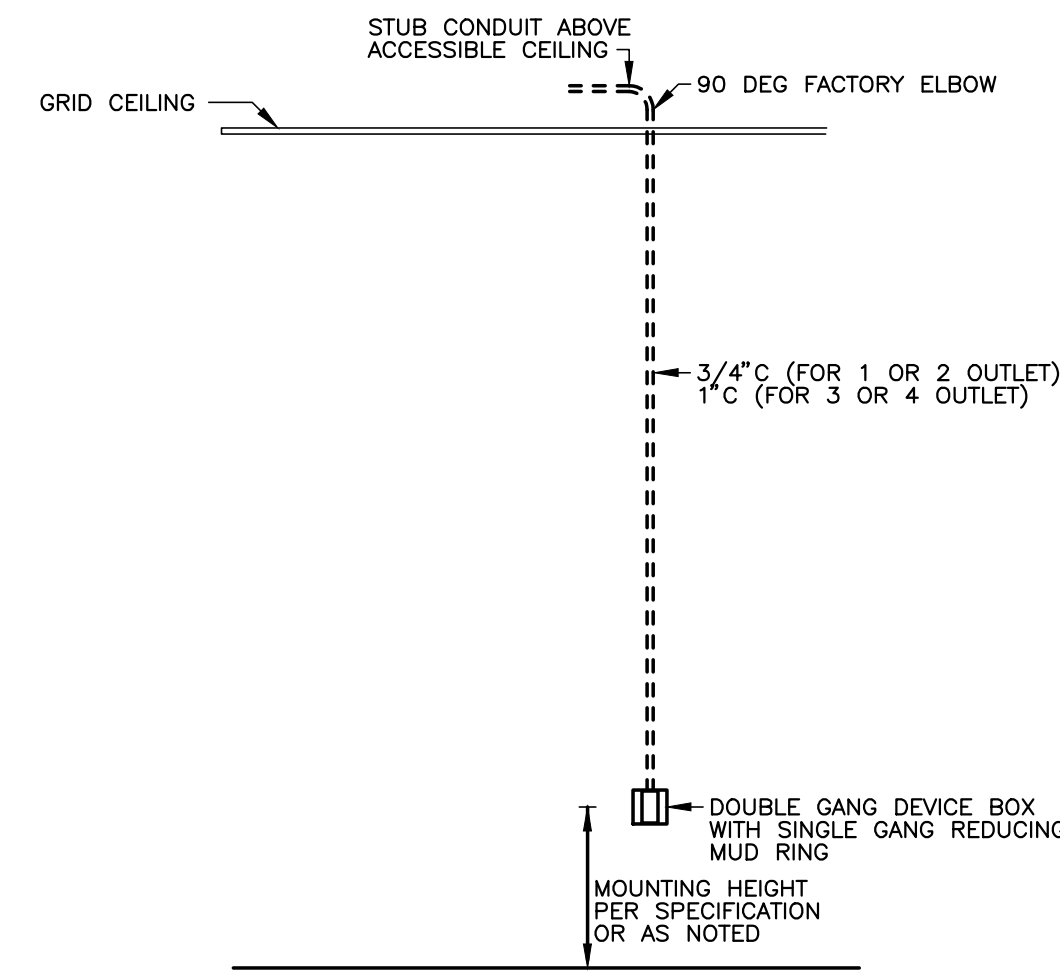
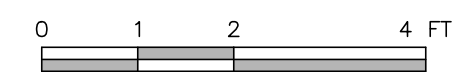
CONTRACT 2021-03
BUILDING A IMPROVEMENTS
LOW VOLTAGE PLAN

SHEET

T-1.1
OF 27



1 SINGLE DOOR WITH CARD READER, ELECTRIC STRIKE AND FREE EXIT
E5.1 SCALE: 1/2" = 1'-0"



2 TYPICAL TELECOM OUTLET BOX AND PATHWAY
E5.1 SCALE: 1/2" = 1'-0"



Station References and Port Designations (NOTE 1)

SERVER ROOM 34

Rm Name	Room #	52 Ref #	Ports				Equipment Use
			1	2	3	4	
CONFERENCE ROOM	3	001	R1-WP1-01				WAP
CONFERENCE ROOM	3	002	R1-WP1-02	R1-WP1-03			WALL MOUNT TV
CONFERENCE ROOM	3	003	R1-WP1-04	R1-WP1-05			
PERMIT TECH	10	004	R1-WP1-06	R1-WP1-07			
PERMIT TECH	10	005	R1-WP1-08	R1-WP1-09	R1-WP1-10	R1-WP1-11	
PERMIT TECH	10	006	R1-WP1-12	R1-WP1-13	R1-WP1-14	R1-WP1-15	
PERMIT TECH	10	007	R1-WP1-16	R1-WP1-17			
PERMIT TECH	10	008	R1-WP1-18	R1-WP1-19			
STAFF	17	009	R1-WP1-20	R1-WP1-21			
STAFF	17	010	R1-WP1-22	R1-WP1-23			
STAFF	17	011	R1-WP1-24	R1-WP1-25			
OFFICE	18	012	R1-WP1-26	R1-WP1-27			
OFFICE	19	013	R1-WP1-28	R1-WP1-29			
OFFICE	22	014	R1-WP1-30	R1-WP1-31			
WORKROOM	23	015	R1-WP1-32	R1-WP1-33			
WORKROOM	23	016	R1-WP1-34	R1-WP1-35			
OFFICE	24	017	R1-WP1-36	R1-WP1-37			
HALLWAY	26	018	R1-WP1-38				WAP
HALLWAY	26	019	R1-WP1-39				WAP
OFFICE	26A	020	R1-WP1-40	R1-WP1-41			
OFFICE	26B	021	R1-WP1-42	R1-WP1-43			
OFFICE	27	022	R1-WP1-44	R1-WP1-45			
OFFICE	28	023	R1-WP1-46	R1-WP1-47			
OFFICE	30A	024	R1-WP2-01	R1-WP2-02			
OFFICE	30B	025	R1-WP2-03	R1-WP2-04			
STAFF OPEN OFFICE	31	026	R1-WP2-05				
STAFF OPEN OFFICE	31	027	R1-WP2-06	R1-WP2-07			
STAFF OPEN OFFICE	31	028	R1-WP2-08	R1-WP2-09			
STAFF OPEN OFFICE	31	029	R1-WP2-10	R1-WP2-11			
STAFF OPEN OFFICE	31	030	R1-WP2-12	R1-WP2-13			
STAFF OPEN OFFICE	31	031	R1-WP2-14	R1-WP2-15			
STAFF OPEN OFFICE	31	032	R1-WP2-16	R1-WP2-17			
STAFF OPEN OFFICE	31	033	R1-WP2-18	R1-WP2-19			
STAFF OPEN OFFICE	31	034	R1-WP2-20	R1-WP2-21			
COPIER WORKROOM	32	035	R1-WP2-22				WALL PHONE
COPIER WORKROOM	32	036	R1-WP2-23	R1-WP2-24			
CONFERENCE ROOM	41	037	R1-WP2-25	R1-WP2-26			
CONFERENCE ROOM	41	038	R1-WP2-27	R1-WP2-28			WALL MOUNT TV
CONFERENCE ROOM	41	039	R1-WP2-29	R1-WP2-30			
OPERATIONS	45	040	R1-WP2-31				WAP
OPERATIONS	45	041	R1-WP2-32	R1-WP2-33			
OPERATIONS	45	042	R1-WP2-34	R1-WP2-35			
OPERATIONS	45	043	R1-WP2-36	R1-WP2-37			
OPERATIONS	45	044	R1-WP2-38	R1-WP2-39			
OPERATIONS	45	045	R1-WP2-40	R1-WP2-41			
OPERATIONS	45	046	R1-WP2-42	R1-WP2-43			WALL MOUNT TV
OPERATIONS	45	047	R1-WP2-44	R1-WP2-45			
OPERATIONS	45	048	R1-WP2-46	R1-WP2-47			
OPERATIONS	45	049	R1-WP3-01	R1-WP3-02			
LAUNDRY	59	050	R1-WP3-03				WALL PHONE
STAFF OPEN OFFICE	31	051	R1-WP3-04				WALL MOUNT TV
STAFF OPEN OFFICE	31	052	R1-WP3-05				WALL MOUNT TV

NOTES:

1. MODIFY RACK AND PATCH PANEL NUMBERING AS REQUIRED TO MATCH EXISTING OWNER EQUIPMENT.



NO	BY	APPD	REVISION	DATE

WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

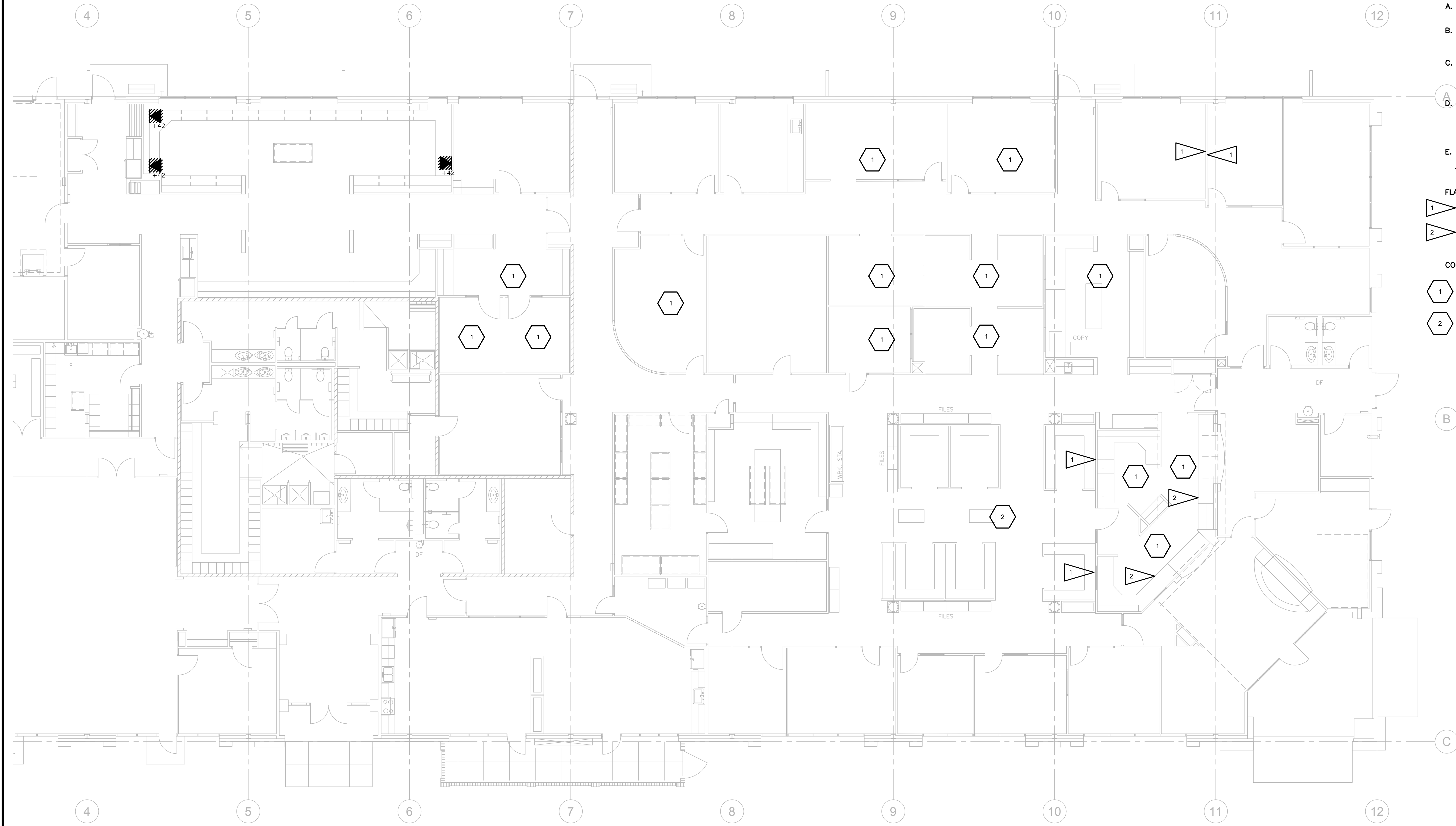
DESIGNED BY	WWK
DRAWN BY	DYA
CHECKED BY	WWK
APPROVAL	WWK
DATE	MAR. 2023



NORTHSHORE UTILITY DISTRICT
6830 NE 185th St. P.O. Box 82489
Kenmore, WA 98028-2684 Kenmore, WA 98028-2684
Ph: (425) 398-4400 | Fax: (425) 398-4430 | www.nud.net

CONTRACT 2021-03
BUILDING A IMPROVEMENTS

LOW VOLTAGE SCHEDULES AND DETAILS

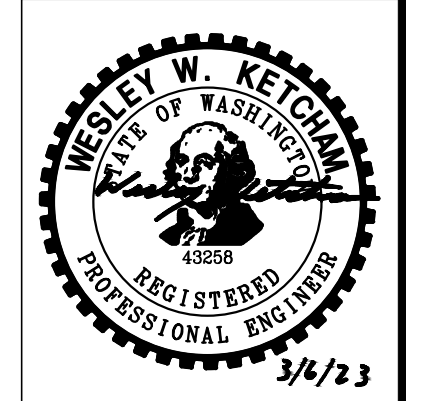
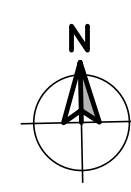


- GENERALS NOTES:**
- A. CROSS HATCHING INDICATES LOW VOLTAGE DEVICES TO BE DEMOLISHED.
 - B. IDENTIFY AND PRESERVE LOW VOLTAGE CABLING FOR THE PUBLIC ADDRESS SYSTEM ABOVE THE CEILING.
 - C. SECURITY CAMERAS, FIRE ALARM AND ACCESS CONTROL DEVICES WITHIN THE CONSTRUCTION AREA WILL BE DEMOLISHED BY OWNER'S VENDOR.
 - D. FOR OUTLET TO BE DEMOLISHED, DEMOLISH ALL LOW VOLTAGE DATA AND TELEPHONE CABLING FROM OUTLET TO SERVER ROOM 34 AND DE-TERMINATE FROM WORKSTATION PATCH PANEL.
 - E. IDENTIFY AND DEMOLISH ALL REMAINING ABANDONED LOW VOLTAGE CABLING EITHER EXPOSED OR ABOVE DROP CEILING.

- FLAG NOTES:**
- 1 DEMOLISH ANY TELECOM OUTLETS ON THIS WALL.
 - 2 DEMOLISH PANIC BUTTON IN CASE WORK. PRESERVE PANIC BUTTON AND ASSOCIATED HARDWARE FOR RECONNECTION.

- CONSTRUCTION NOTES:**
- 1 DEMOLISH ALL TELECOM OUTLETS IN THIS ROOM.
 - 2 DEMOLISH TELECOM DROPS TO MODULAR FURNITURE.

LOW VOLTAGE DEMOLITION PLAN



NO	BY	APPD	REVISION	DATE

WARNING

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	DESIGNED BY	WWK
	DRAWN BY	DYA
	CHECKED BY	WWK
	APPROVAL	WWK
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 BUILDING A IMPROVEMENTS

**LOW VOLTAGE
 DEMOLITION PLAN**

SHEET

TD-1.1
 OF 27