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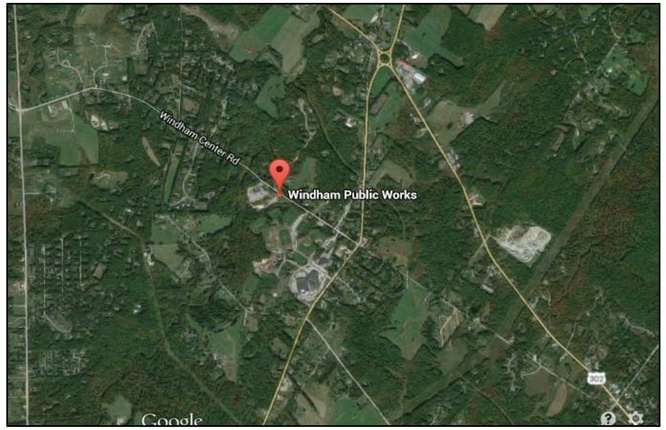
TOWN OF WINDHAM

WINDHAM, MAINE

ALLIED PROJECT #15035



LOCATION MAP

SCHEMATIC DESIGN
~ 17 JULY 2015 ~
NOT FOR CONSTRUCTION

DRAWING STATUS LIST

ISSUE	DATE	DESCRIPTION
	07-17-2015	SCHEMATIC DESIGN

DRAWINGS

SHEET No.	SHEET TITLE	SCHEMATIC DESIGN
G-000	COVER SHEET	
1	EXISTING CONDITIONS PLAN	•
1	GRADING PLAN	•
1	SITE AND UTILITY PLAN	•
1	RENDERED SITE PLAN	•
A-1	ARCHITECTURAL - LOWER LEVEL FLOOR PLAN	•
A-2	ARCHITECTURAL - UPPER LEVEL FLOOR PLAN	•
A-3	ARCHITECTURAL - ROOF PLAN	•
A-4	ARCHITECTURAL - EXTERIOR ELEVATIONS	•
A-5	ARCHITECTURAL - EXTERIOR ELEVATIONS	•
SB-100	STRUCTURAL - FOUNDATION PLAN	•
SF-100	STRUCTURAL - UPPER LEVEL FRAMING PLAN	•
SF-101	STRUCTURAL - ROOF FRAMING PLAN	•
FP-100	FIRE PROTECTION - LOWER LEVEL	•
FP-101	FIRE PROTECTION - UPPER LEVEL	•
PL-100	PLUMBING PLAN - LOWER LEVEL	•
PL-101	PLUMBING PLAN - UPPER LEVEL	•
MH-100	MECHANICAL PLAN - LOWER LEVEL	•
MH-101	MECHANICAL PLAN - LOWER LEVEL	•
ESD-100	ELECTRICAL SITE PLAN DEMOLITION	•
ES-100	ELECTRICAL SITE PLAN NEW CONDITIONS	•
E-000	ELECTRICAL LEGENDS, ABBREVIATIONS AND GENERAL NOTES	•
EL-100	LIGHTING PLAN - LOWER LEVEL	•
EL-101	LIGHTING PLAN - UPPER LEVEL	•
EL-600	LIGHTING DETAILS AND SCHEDULE	•
EP-100	POWER AND SYSTEMS PLAN - LOWER LEVEL	•
EP-101	POWER AND SYSTEMS PLAN - UPPER LEVEL	•
EP-600	ELECTRICAL DETAIL AND SCHEDULES	•

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V:\Projects\15035 - Windham Maintenance Facility Study\00 Drawing Files\15035.vl 7/16/2015 3:43:41 PM

NOTES:

1. PROPERTY LINE INFORMATION IS FROM BOUNDARY PLAN CREATED BY SURVEY INC. OF WINDHAM MAINE, CIRCA, 1993.

2. TOPOGRAPHIC INFORMATION FROM TOWN OF WINDHAM GIS COMBINED WITH TOPOGRAPHIC INFORMATION OBTAINED FROM MAINE OFFICE OF GIS

3. AERIAL PHOTO OBTAINED FROM GOOGLE EARTH AND WAS TAKEN SEPTEMBER 27, 2014.

4. PLEASANT RIVER AND TRIBUTARY BROOK LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE REQUIRED TO CONFIRM SETBACK LOCATIONS.

5. WETLANDS ON-SITE HAVE NOT BEEN DELINEATED. AREAS SHOWN AS WET ONLY BASED UPON FIELD WALKS. OFFICIAL WETLAND DELINEATION WILL BE REQUIRED PRIOR TO FURTHER DESIGN AND PERMITTING.

NOTE: THIS PLAN SET IS ISSUED FOR PERMITTING PURPOSES AND SHALL NOT BE USED FOR CONSTRUCTION.

50 0 25 50 100

1 inch = 50 ft.

C:\Users\CADD\Dropbox\DCS-Projects\Gorrill-Palmer\98083.02 Windham PW\dwg\98083.02_EXCOND.dwg – 7/13/2015 1:59 PM

Rev.	Date	Revision
–	–	–

Issued For	Date	By
FEASIBILITY STUDY	7/14/15	DER

Design: –	Draft: DB/CG	Date: MAY 2015
Checked: AMP	Scale: 1"=50'	Job No.: 98083.03
File Name: 98083.02_EXCOND.dwg		

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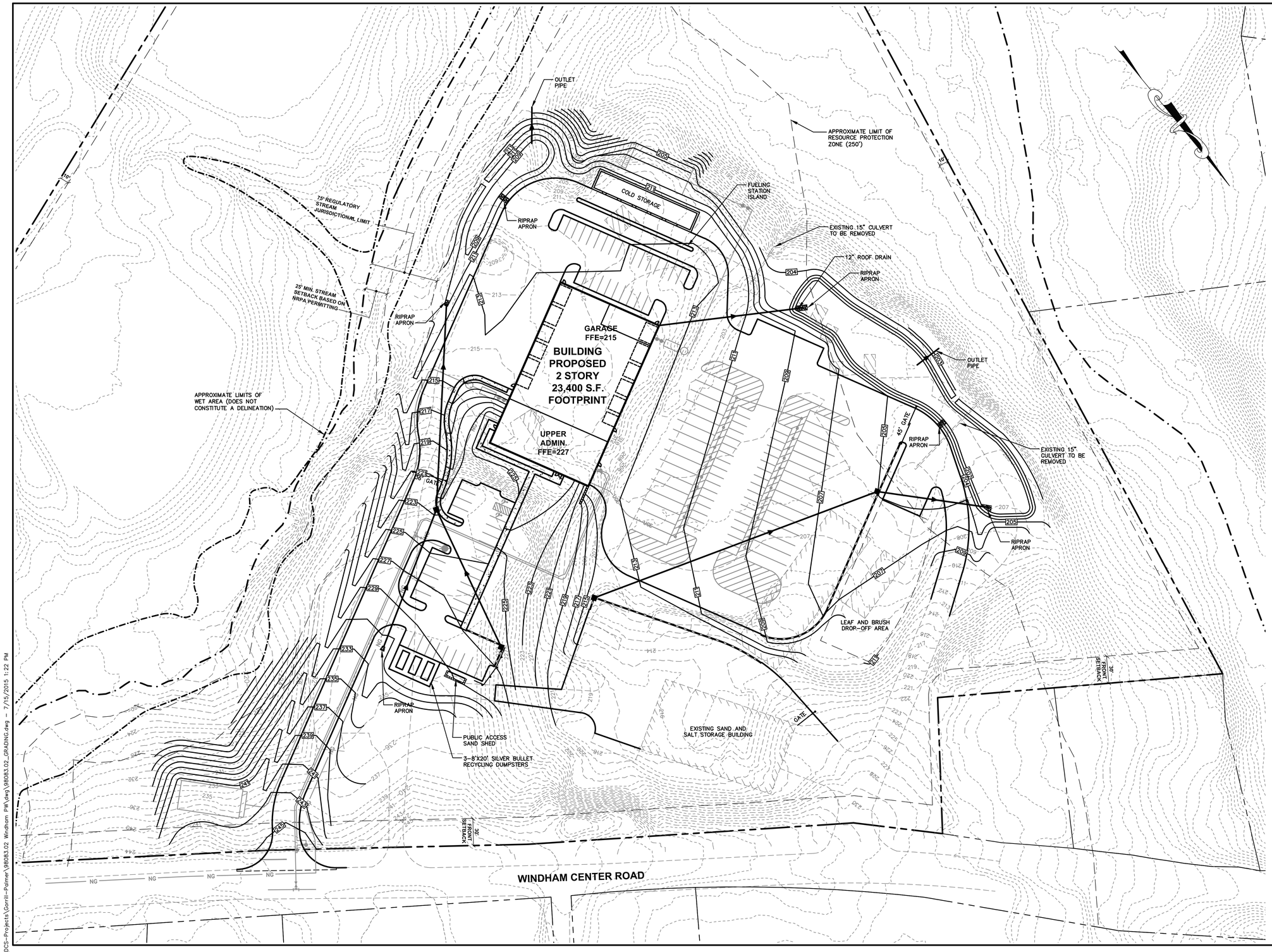
Drawing Name: **Existing Conditions Plan**

Project: **Windham Public Works Evaluation**
Windham, Maine

Client: **Windham Public Works**
185 Windham Center Road, Windham, Maine 04062

Drawing No. 1



NOTES:

1. PROPOSED GRADING IS BASED UPON AVAILABLE TOPOGRAPHIC INFORMATION. A FULL GROUND SURVEY WILL BE REQUIRED FOR FURTHER DESIGN AND PERMITTING.

NOTE: THIS PLAN SET IS ISSUED FOR PERMITTING PURPOSES AND SHALL NOT BE USED FOR CONSTRUCTION.

50 0 25 50 100

1 inch = 50 ft.

Rev.	Date	Revision
–	–	–

Issued For	Date	By
FEASIBILITY STUDY	7/14/15	DER

Design: –	Draft: DB/CG	Date: MAY 2015
Checked: AMP	Scale: 1"=50'	Job No.: 98083.03
File Name: 98083.02_GRADING.dwg		

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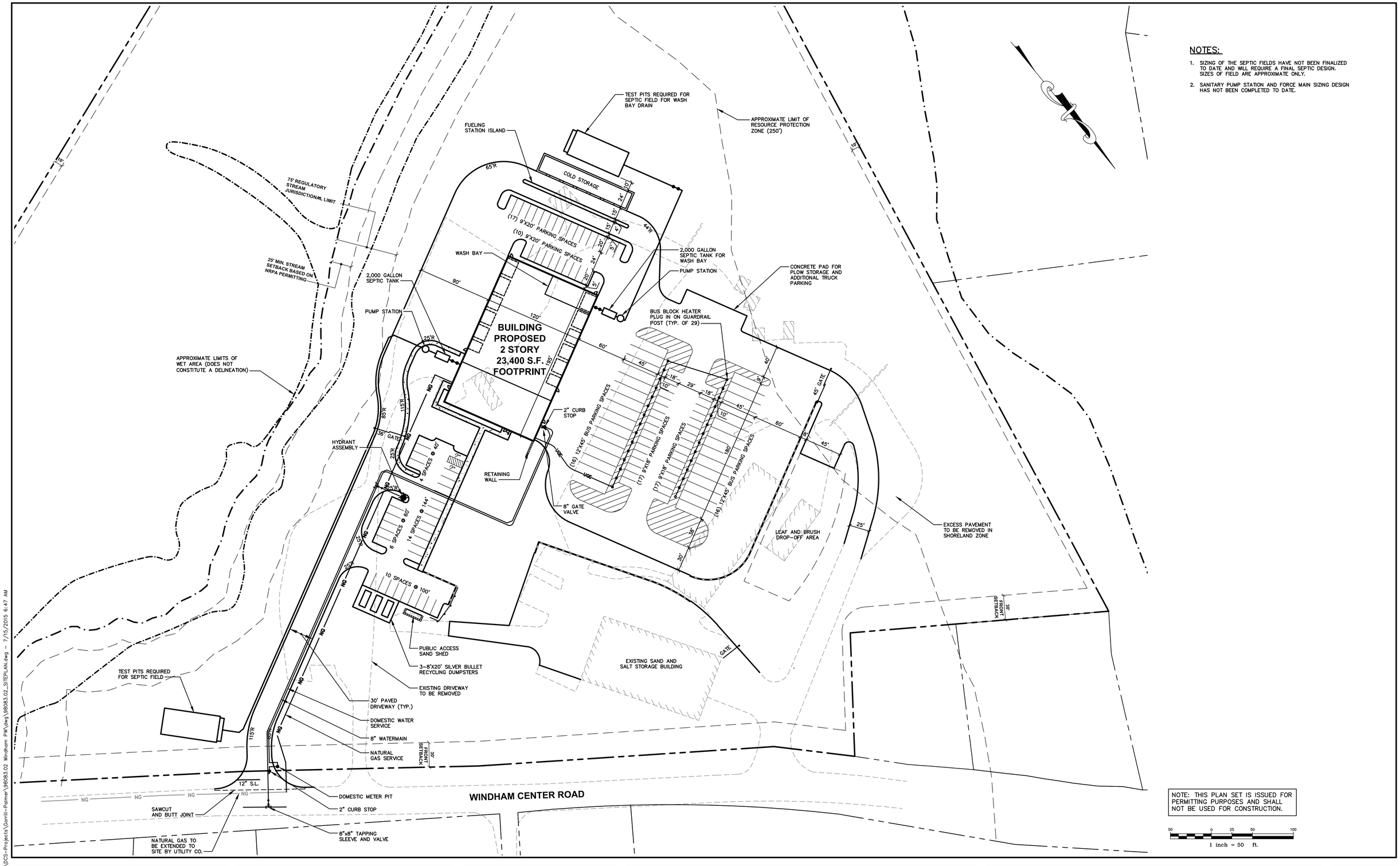
Drawing Name: **Grading Plan**

Project: **Windham Public Works Evaluation**
Windham, Maine

Client: **Windham Public Works**
185 Windham Center Road, Windham, Maine 04062

Drawing No. 1

C:\Users\CADD\Dropbox\DCS-Projects\Gorrill-Palmer\98083.02 Windham PW\dwg\98083.02_GRADING.dwg – 7/15/2015 1:22 PM



NOTES:

1. SIZING OF THE SEPTIC FIELDS HAVE NOT BEEN FINALIZED TO DATE AND WILL REQUIRE A FINAL SEPTIC DESIGN. SIZES OF FIELD ARE APPROXIMATE ONLY.
2. SANITARY PUMP STATION AND FORCE MAIN SIZING DESIGN HAS NOT BEEN COMPLETED TO DATE.

C:\Users\CADD\Dropbox\DCS-Projects\Gorrill-Palmer\98083.02 Windham PW\dwg\98083.02_SITEPLAN.dwg - 7/15/2015 6:47 AM

Rev.	Date	Revision
–	–	–

Issued For	Date	By
FEASIBILITY STUDY	7/14/15	DER

Design: –	Draft: DB/CG	Date: MAY 2015
Checked: AMP	Scale: 1"=50'	Job No.: 98083.03
File Name: 98083.02_SITEPLAN.dwg		

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Drawing Name: **Site and Utility Plan**

Project: **Windham Public Works Evaluation**
Windham, Maine

Client: **Windham Public Works**
185 Windham Center Road, Windham, Maine 04062

Drawing No. 1

NOTE: THIS PLAN SET IS ISSUED FOR PERMITTING PURPOSES AND SHALL NOT BE USED FOR CONSTRUCTION.

50 0 25 50 100
1 inch = 50 ft.

Rev.	Date	Revision
–	–	–

Issued For	Date	By
FEASIBILITY STUDY	7/14/15	DER

Design: –	Draft: DB/CG	Date: MAY 2015
Checked: AMP	Scale: 1"=50'	Job No.: 98083.03

File Name: 98083.02_SITEPLAN_RENDERED.dwg

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Drawing Name: **Rendered Site Plan**

Project: **Windham Public Works Evaluation**
Windham, Maine

Client: **Windham Public Works**
185 Windham Center Road, Windham, Maine 04062

Drawing No. 1

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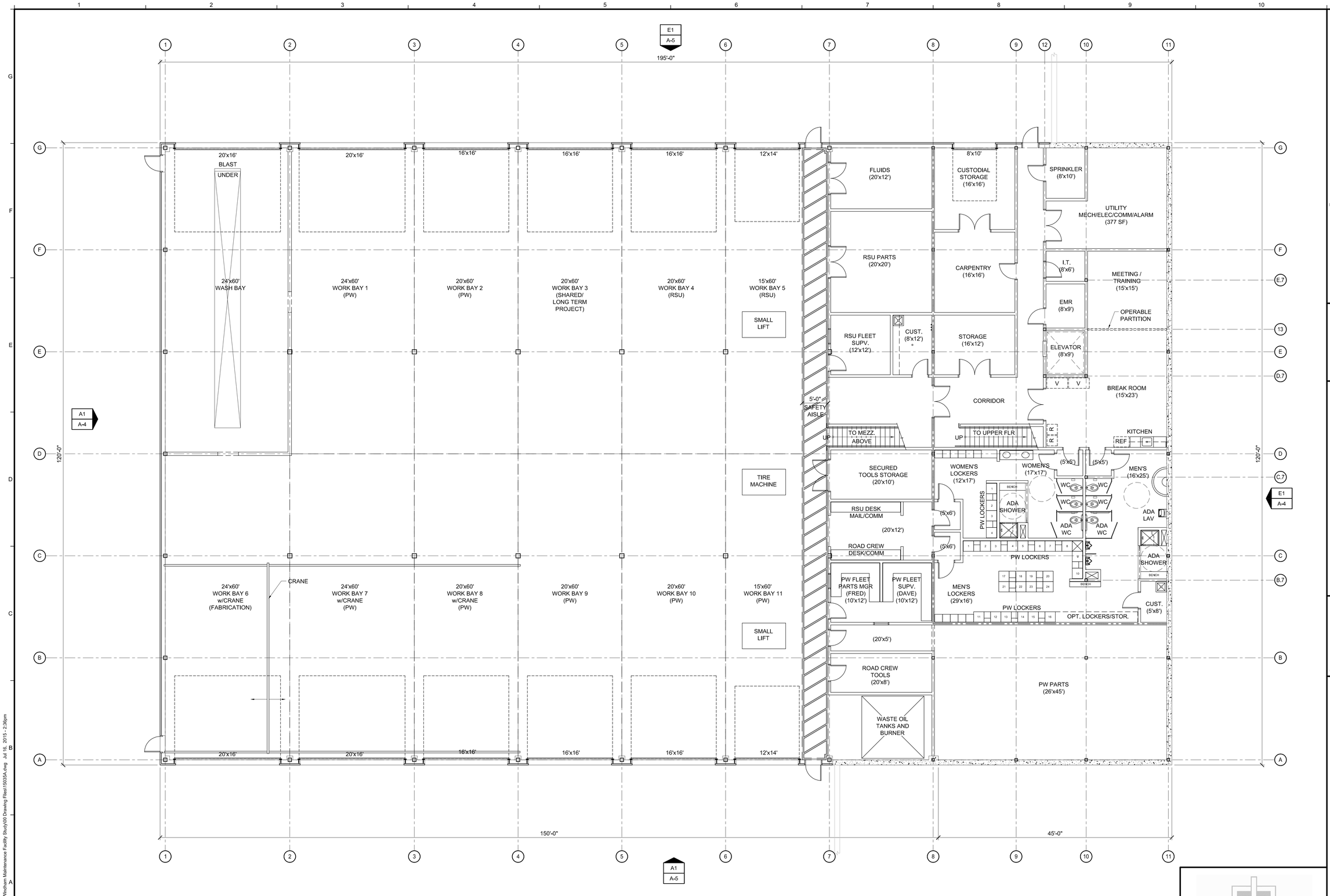

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REVISIONS

NUMBER	DATE	BY	DESCRIPTION

Date: -
Drawn By: PED
Checked By: MFH
Project Mgr: WPF
Project No: 15035
Cad File: 13035A.dwg
Graphic Scale: 0 1"

ARCHITECTURAL ~ LOWER LEVEL FLOOR PLAN

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WINDHAM, MAINE

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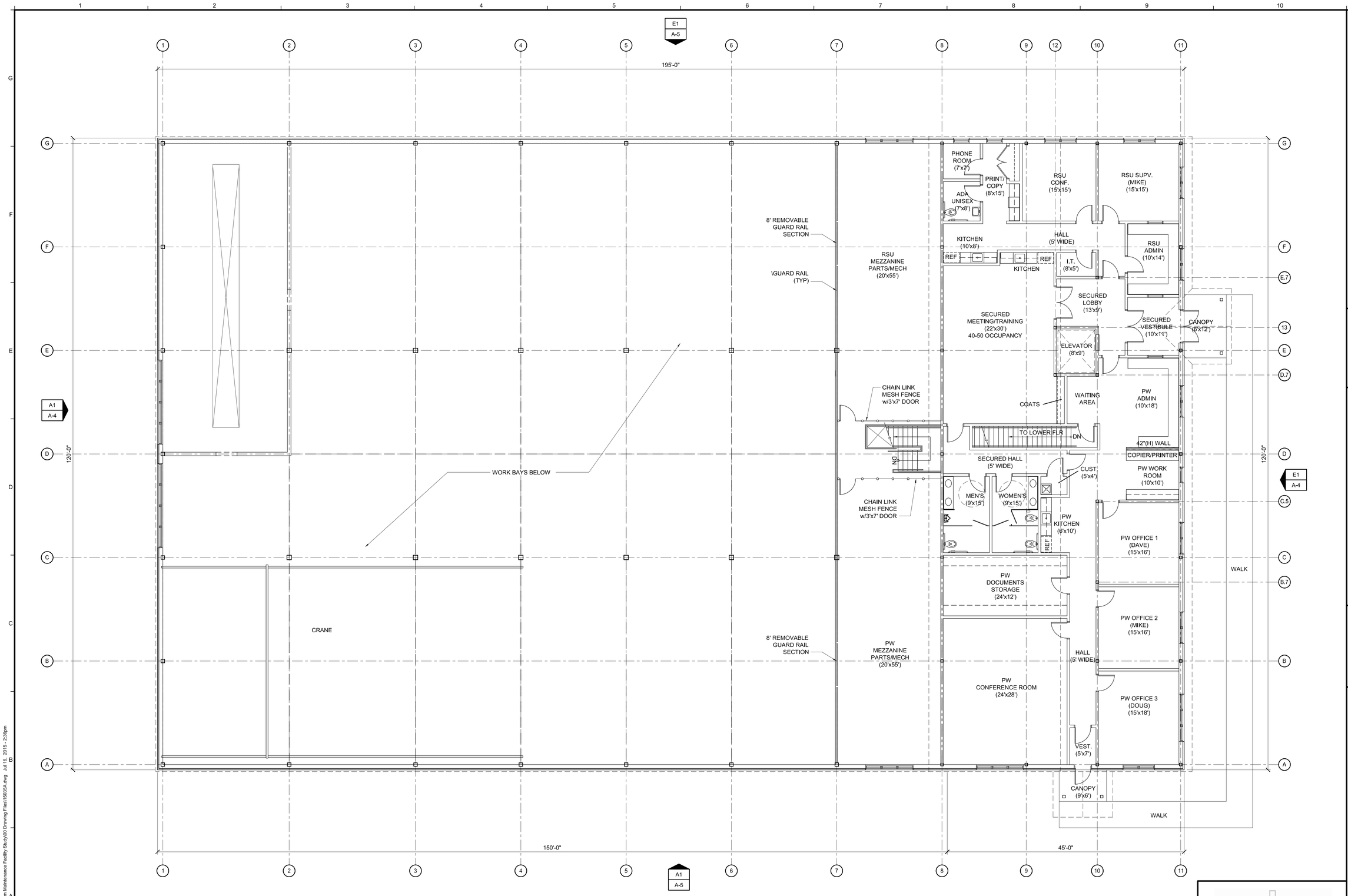
A-1

SCHEMATIC DRAWINGS ~ 17 JULY 2015 ~ NOT FOR CONSTRUCTION

A1	ARCHITECTURAL ~ FLOOR PLAN
1/8" = 1'-0"	

N:\Projects\2015\15035 - Windham Maintenance Facility Study\00 Drawing Files\15035A.dwg Jul 19, 2015 - 2:39pm



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REVISIONS

NUMBER	DATE	BY	DESCRIPTION

Date: -
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Project No: 15035
Cad File: 13035A.dwg
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ARCHITECTURAL ~ UPPER LEVEL FLOOR PLAN

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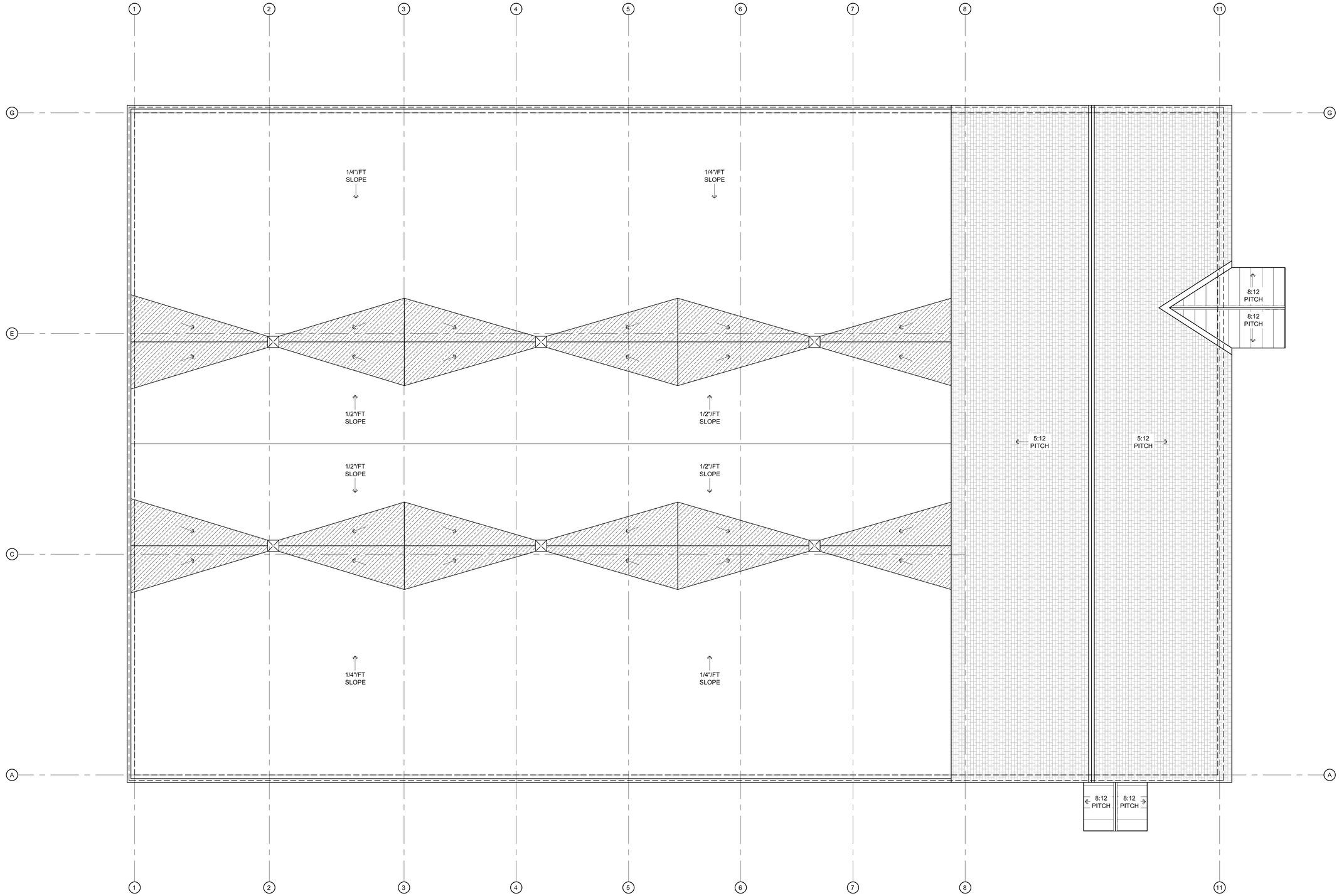
A-2

SCHEMATIC DRAWINGS ~ 17 JULY 2015 ~ NOT FOR CONSTRUCTION

A1 | ARCHITECTURAL ~ FLOOR PLAN
1/8" = 1'-0"

N:\Projects\2015\15035 - Windham Maintenance Facility Study\00 Drawing Files\15035A.dwg Jul 16, 2015 - 2:36pm



A1	ARCHITECTURAL ~ ROOF PLAN
1/8" = 1'-0"	

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REVISIONS

NUMBER	DATE	BY	DESCRIPTION

Date: -
Drawn By: PED
Checked By: MFH
Project Mgr: WPF
Project No: 15035
Cad File: 13035A.dwg
Graphic Scale: 0 1"

ARCHITECTURAL ~ ROOF PLAN

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A-3

SCHEMATIC DRAWINGS ~ 17 JULY 2015 ~ NOT FOR CONSTRUCTION

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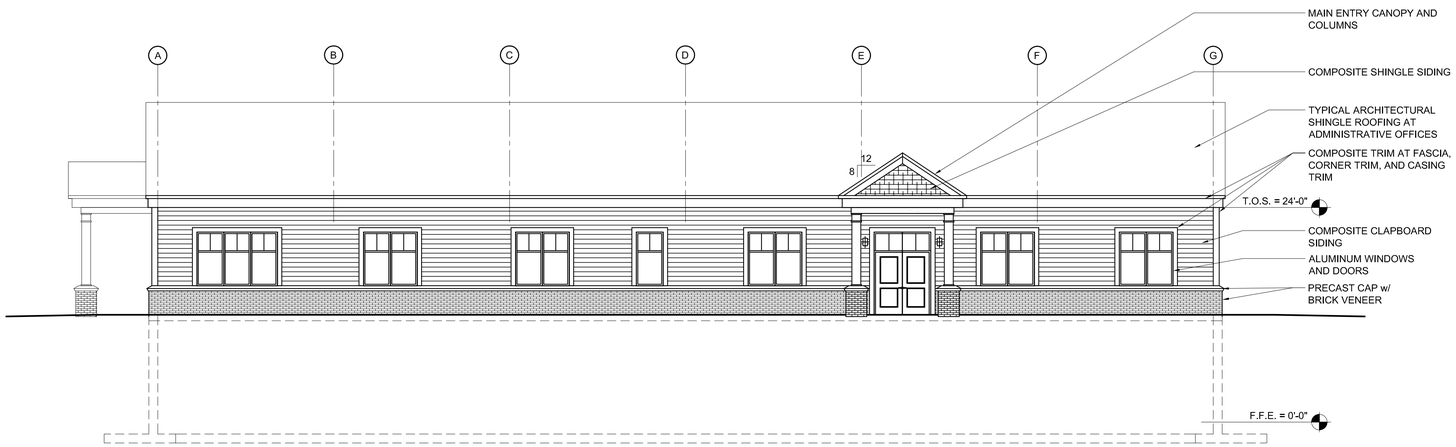
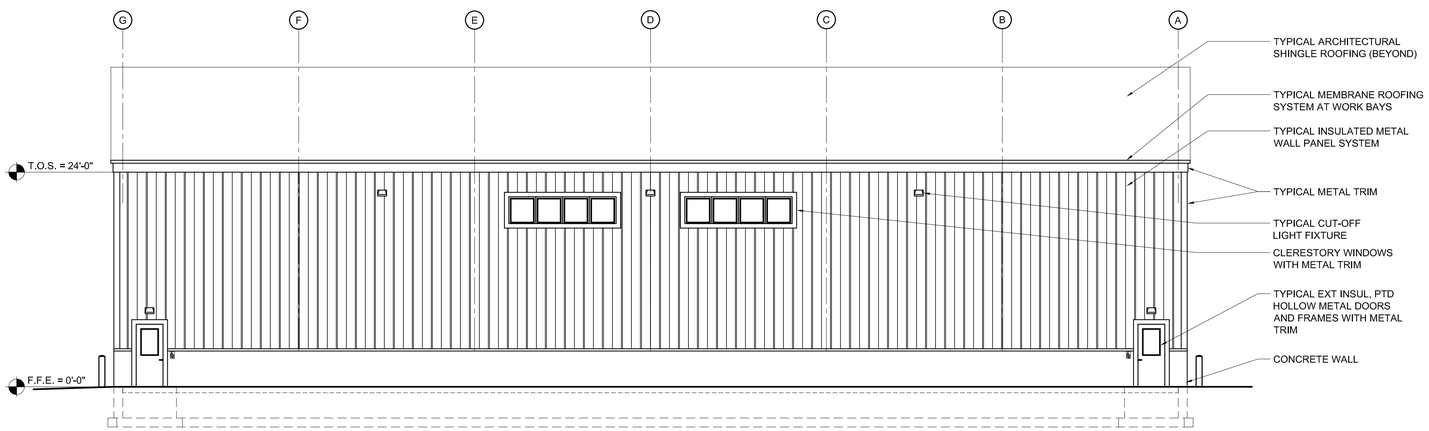


E1	ARCHITECTURAL ~ FRONT ELEVATION
1/8" = 1'-0"	



A1	ARCHITECTURAL ~ REAR ELEVATION
1/8" = 1'-0"	

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NUMBER	DATE	BY	DESCRIPTION

Date: -
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Project Mgr: WPF
Project No: 15035
Cad File: 13035A.dwg
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ARCHITECTURAL ~ EXTERIOR ELEVATIONS

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A-4

SCHEMATIC DRAWINGS ~ 17 JULY 2015 ~ NOT FOR CONSTRUCTION

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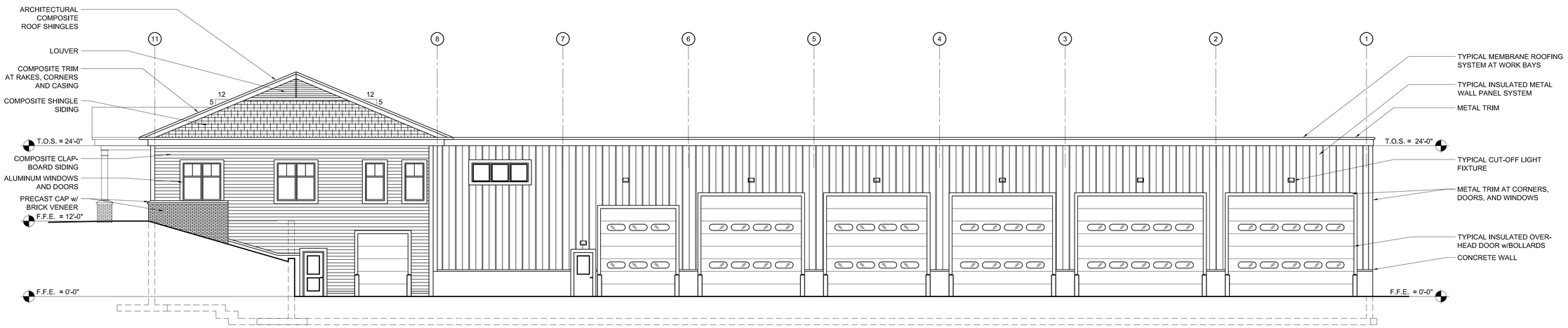
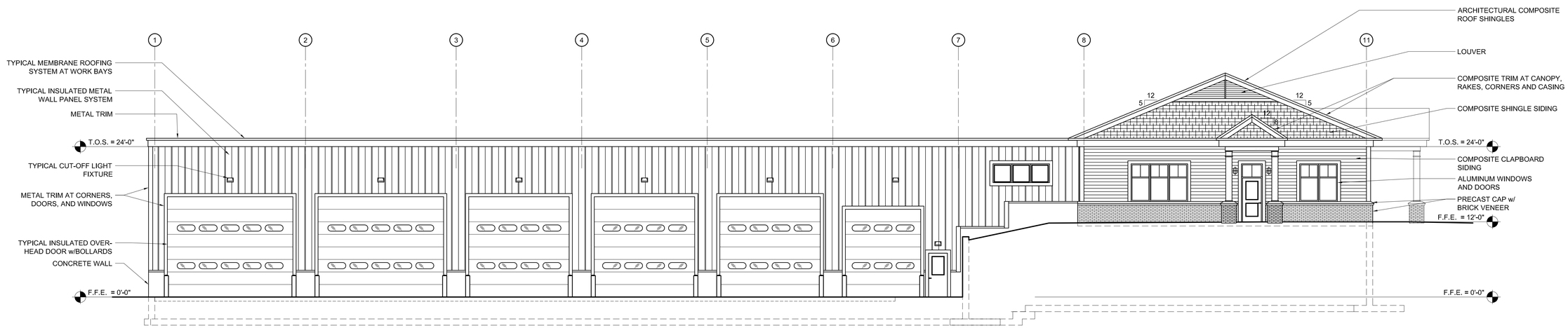


E1	ARCHITECTURAL ~ RIGHT ELEVATION
1/8" = 1'-0"	



A1	ARCHITECTURAL ~ LEFT ELEVATION
1/8" = 1'-0"	

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REVISIONS

NUMBER	DATE	BY	DESCRIPTION

Date: -
Drawn By: PED
Checked By: MFH
Project Mgr: WPF
Project No: 15035
Cad File: 13035A.dwg
Graphic Scale: 0 1"

ARCHITECTURAL ~ EXTERIOR ELEVATIONS

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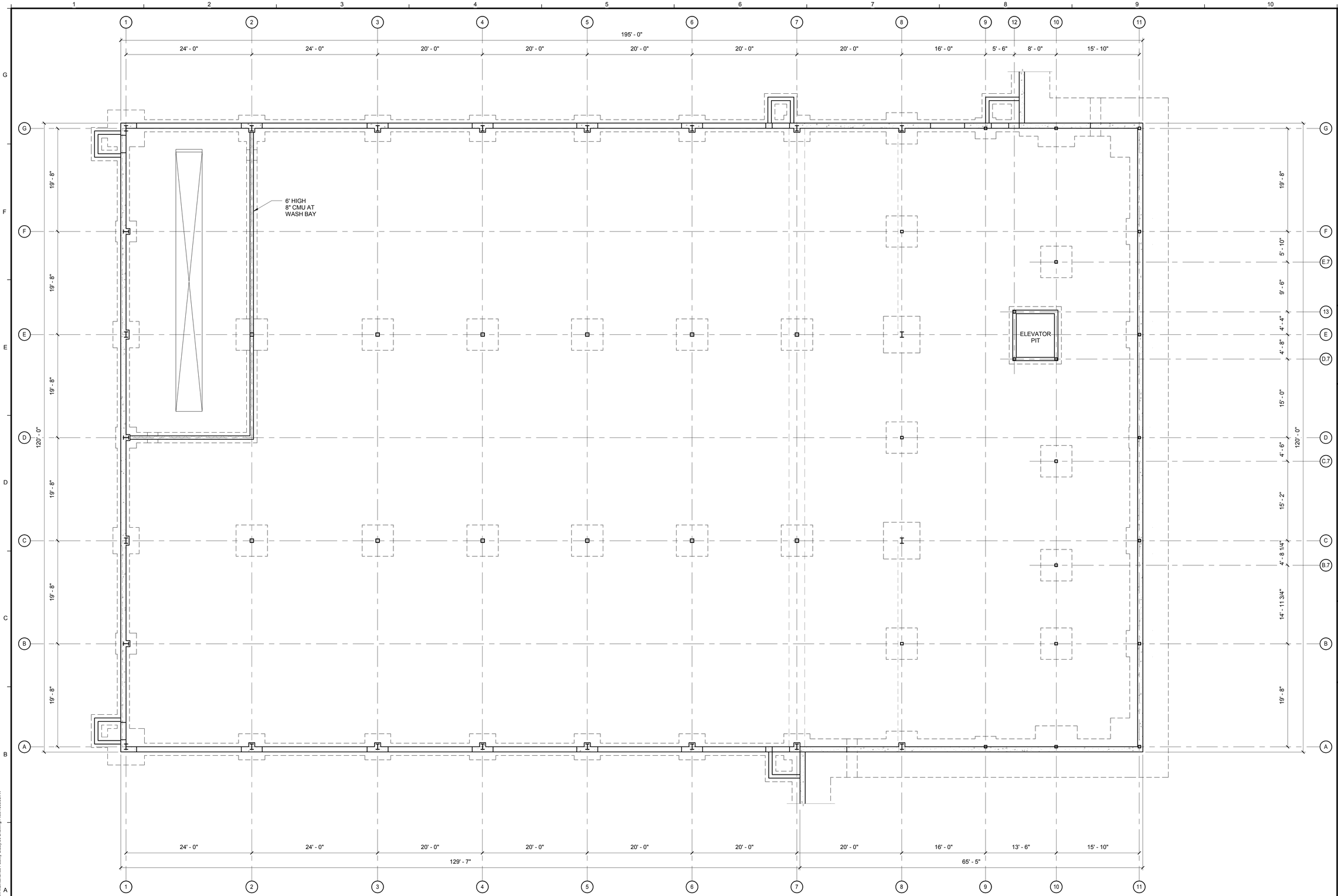

A1	FOUNDATION PLAN
1/8" = 1'-0"	

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REVISIONS

No.	DATE	BY	DESCRIPTION

Date: -
Drawn By: PED
Checked By: WPF
Project Mgr: WPF
Project No: 15035
Cad File: 15035S.rvt
Graphic Scale: 0" 1"

STRUCTURAL - FOUNDATION PLAN

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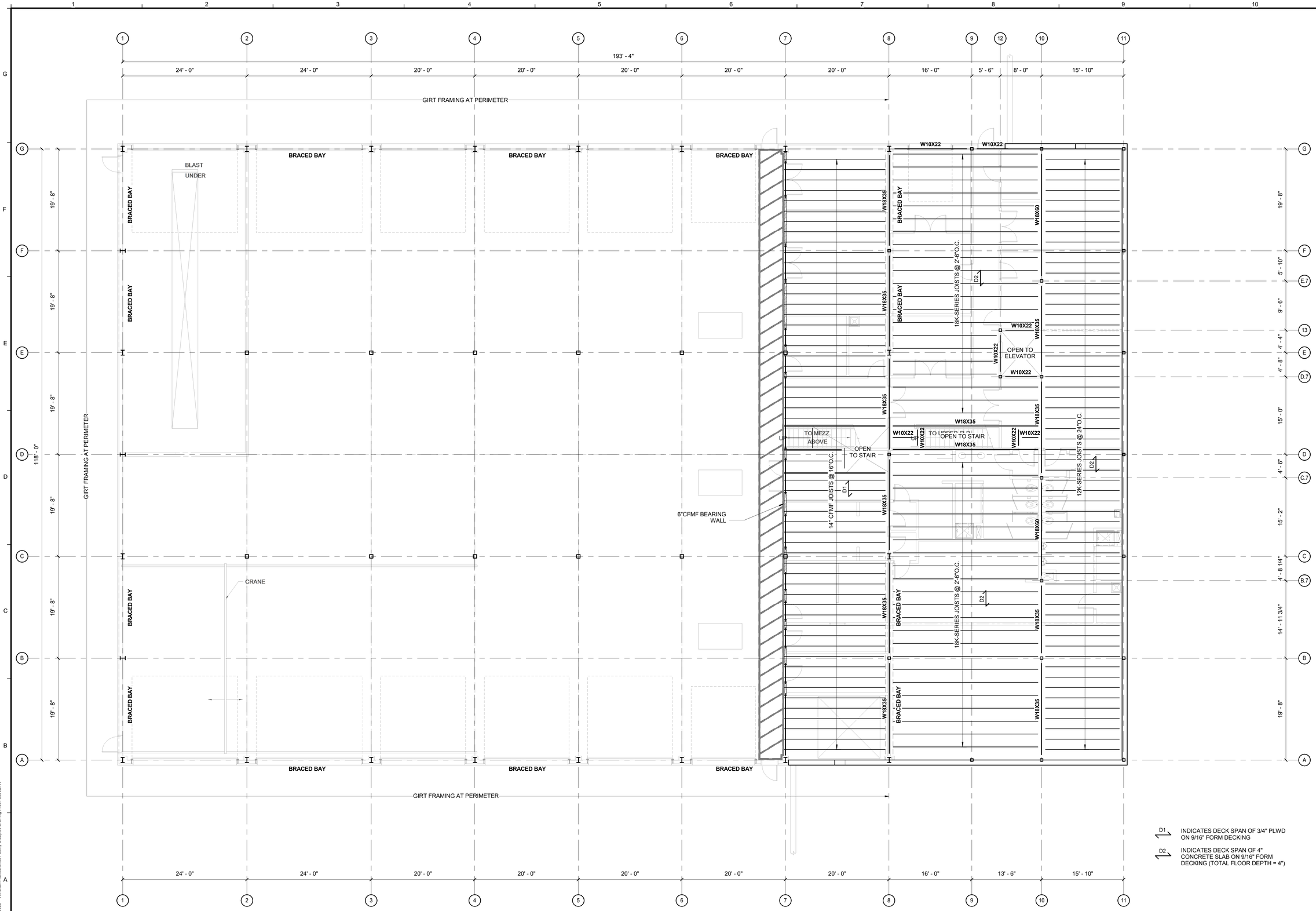
SB-100

SCHEMATIC DRAWINGS ~ 17 JULY 2015 ~ NOT FOR CONSTRUCTION

N:\Projects\2015\15035 - Windham Maintenance Facility Study\00 Drawing Files\15035S.rvt



A1	FRAMING PLAN
1/8" = 1'-0"	

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REVISIONS

No.	DATE	BY	DESCRIPTION

Date: -
Drawn By: PED
Checked By: WPF
Project Mgr: WPF
Project No: 15035
Cad File: 15035S.rvt
Graphic Scale: 0" 1"

STRUCTURAL - UPPER LEVEL FRAMING PLAN

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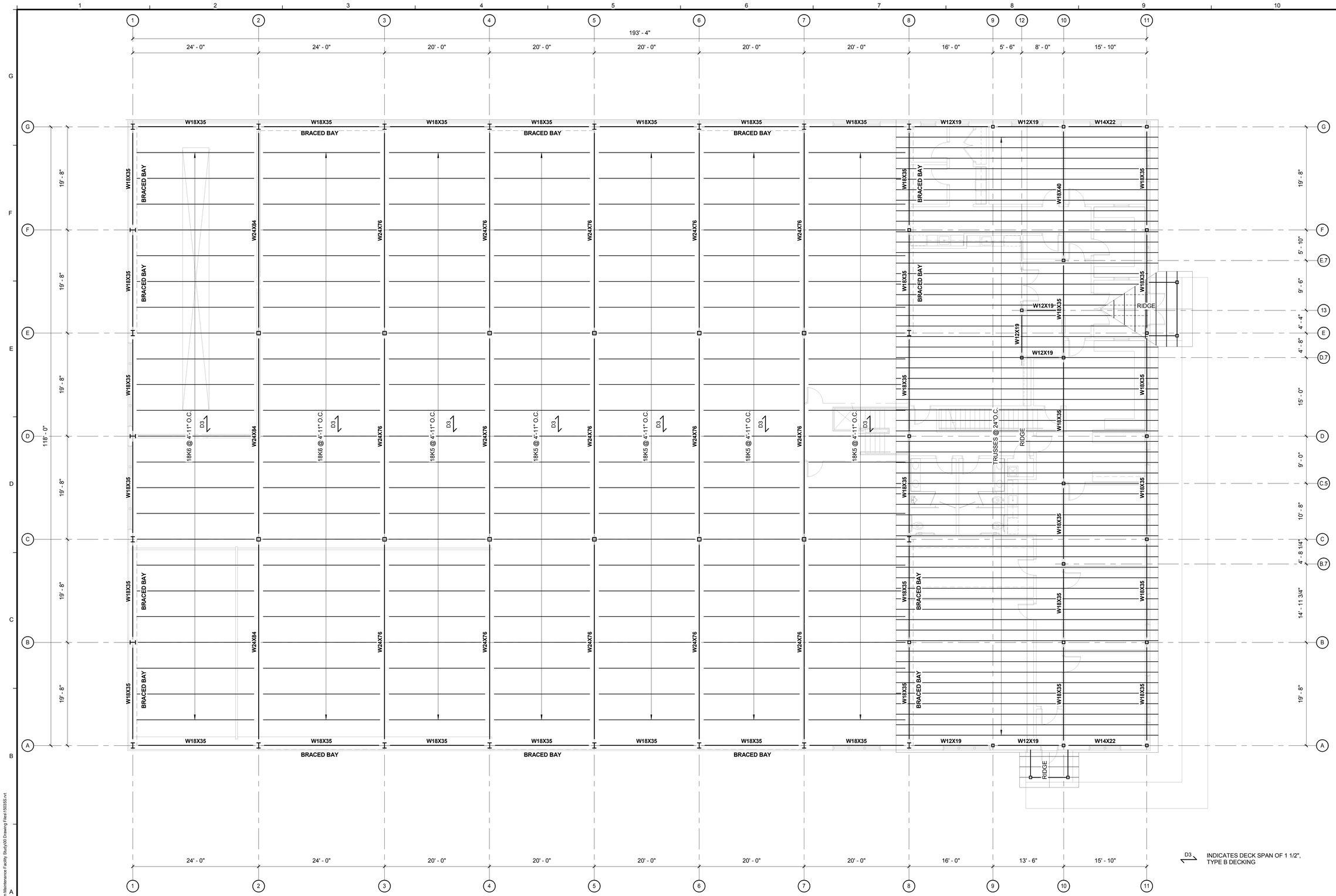
SF-100

SCHEMATIC DRAWINGS ~ 17 JULY 2015 ~ NOT FOR CONSTRUCTION

N:\Projects\2015\15035 - Windham Maintenance Facility Study\00 Drawing Files\15035S.rvt



A1	ROOF FRAMING PLAN
1/8" = 1'-0"	

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REVISIONS

No.	DATE	BY	DESCRIPTION

Date: -
Drawn By: PED
Checked By: WPF
Project Mgr: WPF
Project No: 15035
Cad File: 15035S.rvt
Graphic Scale: 0" 1"

STRUCTURAL - ROOF FRAMING PLAN

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SCHEMATIC DRAWINGS ~ 17 JULY 2015 ~ NOT FOR CONSTRUCTION

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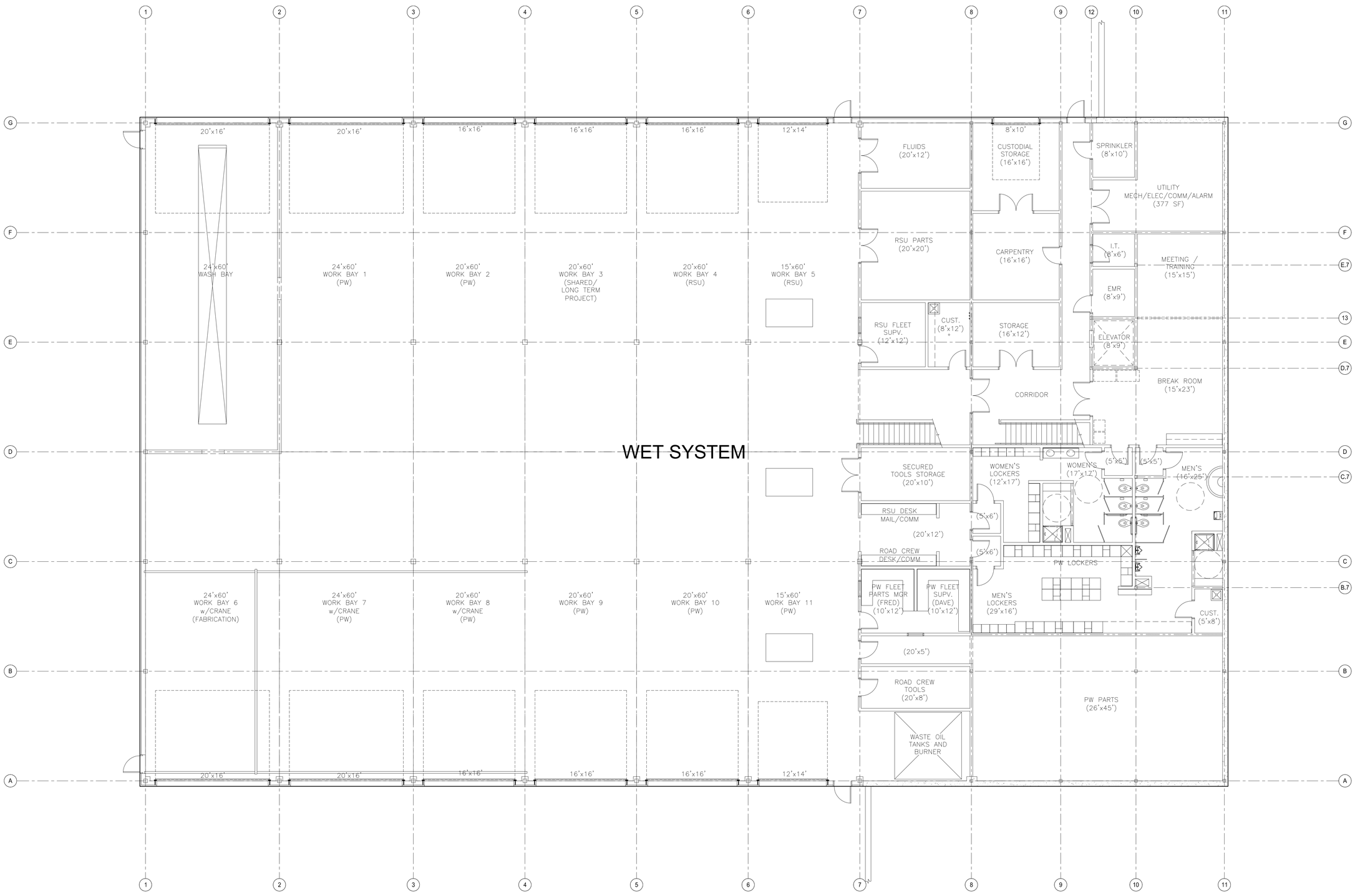

A1	FIRE PROTECTION PLAN ~ LOWER LEVEL
1/8" = 1'-0"	

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REVISIONS

NUMBER	DATE	BY	DESCRIPTION

Date: -
Drawn By: REW
Checked By: HAG
Project Mgr: WPF
Project No: 15035
Cad File: 15035M.dwg
Graphic Scale: 0 1"

FIRE PROTECTION PLAN ~ LOWER LEVEL

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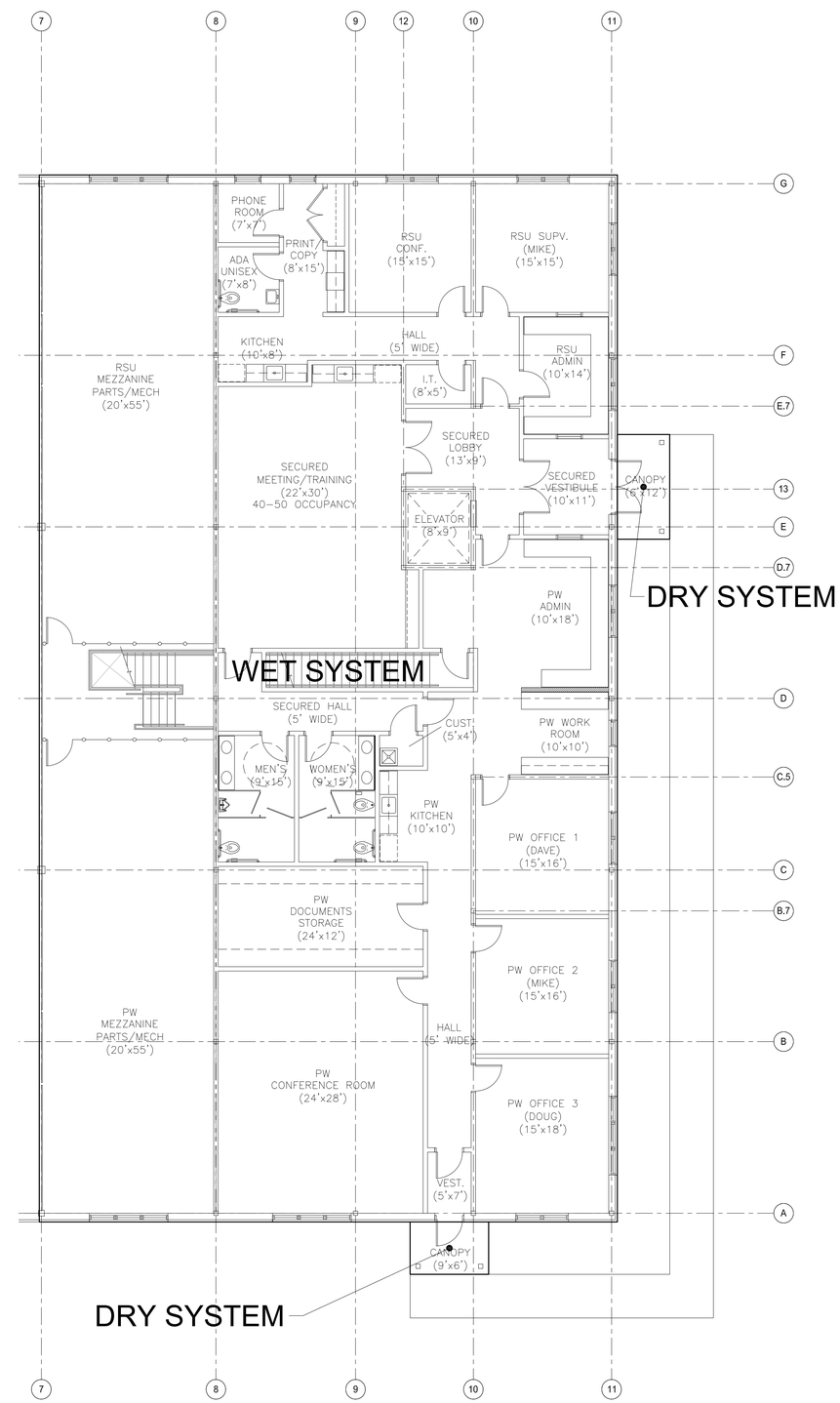
SCHEMATIC DRAWINGS ~ 17 JULY 2015 ~ NOT FOR CONSTRUCTION

N:\Projects\2015\15035 - Windham Maintenance Facility Study\00 Drawing Files\15035M.dwg Jul 16, 2015 - 2:11pm



A7 | FIRE PROTECTION PLAN ~ UPPER LEVEL

1/8" = 1'-0"

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REVISIONS

NUMBER	DATE	BY	DESCRIPTION

Date: -
Drawn By: REW
Checked By: HAG
Project Mgr: WPF
Project No: 15035
Cad File: 15035M.dwg
Graphic Scale: 0 1"

FIRE PROTECTION PLAN ~ UPPER LEVEL

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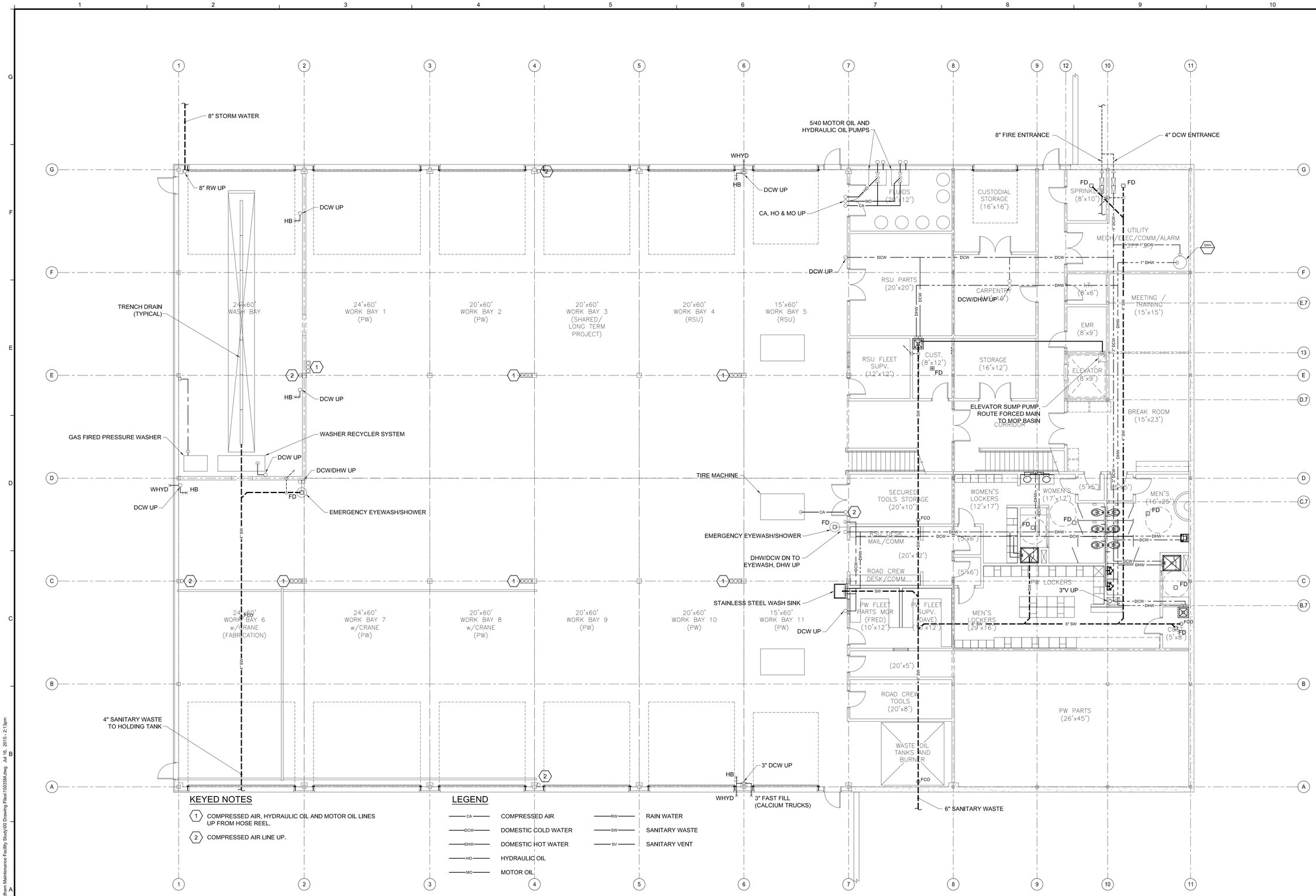
SCHEMATIC DRAWINGS ~ 17 JULY 2015 ~ NOT FOR CONSTRUCTION

N:\Projects\2015\15035 - Windham Maintenance Facility Study\00 Drawing Files\15035M.dwg Jul 16, 2015 - 2:12pm



A1 | PLUMBING PLAN ~ LOWER LEVEL

1/8" = 1'-0"

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REVISIONS

NUMBER	DATE	BY	DESCRIPTION

Date: -
Drawn By: REW
Checked By: HAG
Project Mgr: WPF
Project No: 15035
Cad File: 15035M.dwg
Graphic Scale: 0 1"

PLUMBING PLAN ~ LOWER LEVEL

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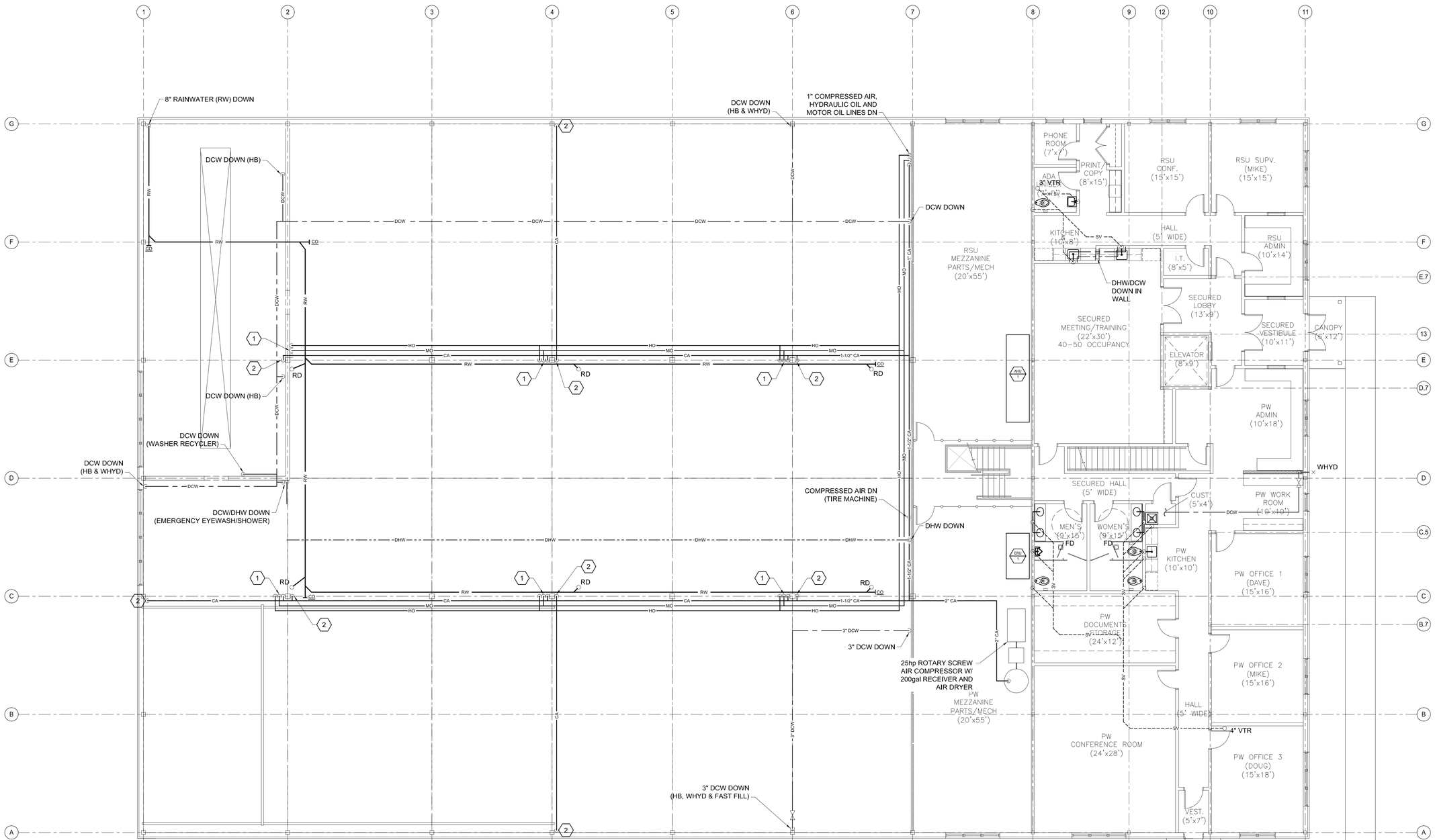
SCHEMATIC DRAWINGS ~ 17 JULY 2015 ~ NOT FOR CONSTRUCTION

N:\Projects\2015\15035 - Windham Maintenance Facility Study\00 Drawing Files\15035M.dwg Jul 16, 2015 - 2:13pm



KEYED NOTES

1. COMPRESSED AIR, HYDRAULIC OIL AND MOTOR OIL DROPS TO HOSE REEL BELOW.
2. COMPRESSED AIR DROP TO COMPRESSED AIR OUTLET BELOW.

LEGEND

CA	COMPRESSED AIR	RW	RAIN WATER
DCW	DOMESTIC COLD WATER	SW	SANITARY WASTE
DHW	DOMESTIC HOT WATER	SV	SANITARY VENT
HO	HYDRAULIC OIL		
MO	MOTOR OIL		

A1 | PLUMBING PLAN ~ UPPER LEVEL

1/8" = 1'-0"

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REVISIONS

NUMBER	DATE	BY	DESCRIPTION

Date: -
Drawn By: REW
Checked By: HAG
Project Mgr: WPF
Project No: 15035
Cad File: 15035M.dwg
Graphic Scale: 0 1"

PLUMBING PART AND ENLARGED PLANS - UPPER LEVEL

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SCHEMATIC DRAWINGS ~ 17 JULY 2015 ~ NOT FOR CONSTRUCTION

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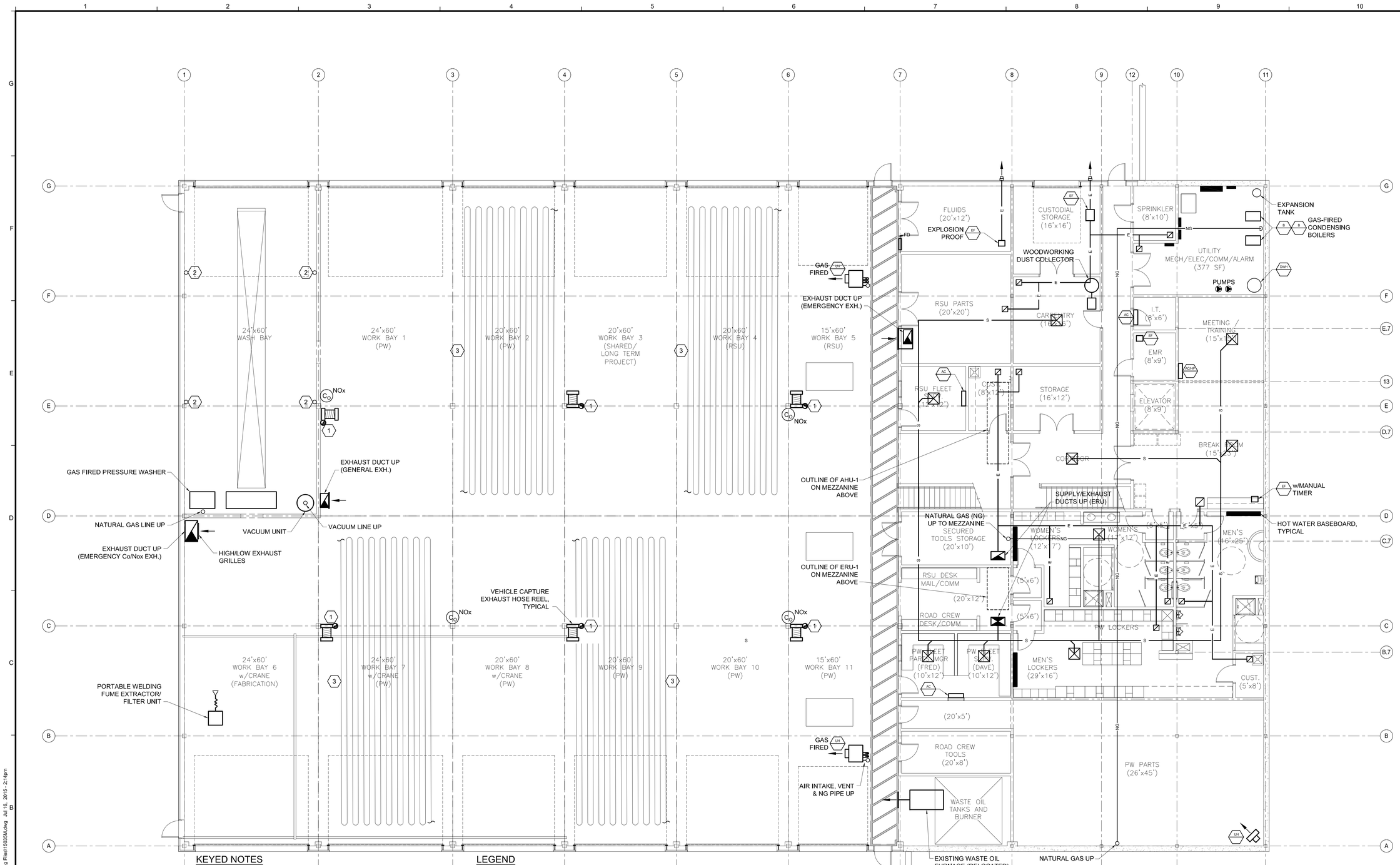

KEYED NOTES

1. VEHICLE CAPTURE EXHAUST DUCT UP.
2. VACUUM LINE UP, DOWN TO WALL INLET VALVE.
3. RADIANT SLAB HEATING THROUGH ENTIRE GARAGE AND WASH BAY.

LEGEND

E	EXHAUST DUCT
EE	EMERGENCY EXHAUST AIR DUCT
ES	EMERGENCY SUPPLY AIR DUCT
ES-F	EMERGENCY SUPPLY AIR - FABRIC DUCT
NG	NATURAL GAS PIPING
R	RETURN DUCT
S	SUPPLY DUCT
VAC	VACUUM AIR DUCT
VCE	VEHICLE CAPTURE EXHAUST DUCT

A1	MECHANICAL PLAN ~ LOWER LEVEL
1/8" = 1'-0"	

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REVISIONS

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Date: -
Drawn By: REW
Checked By: HAG
Project Mgr: WPF
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MECHANICAL PLAN ~ LOWER LEVEL

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SCHEMATIC DRAWINGS ~ 17 JULY 2015 ~ NOT FOR CONSTRUCTION

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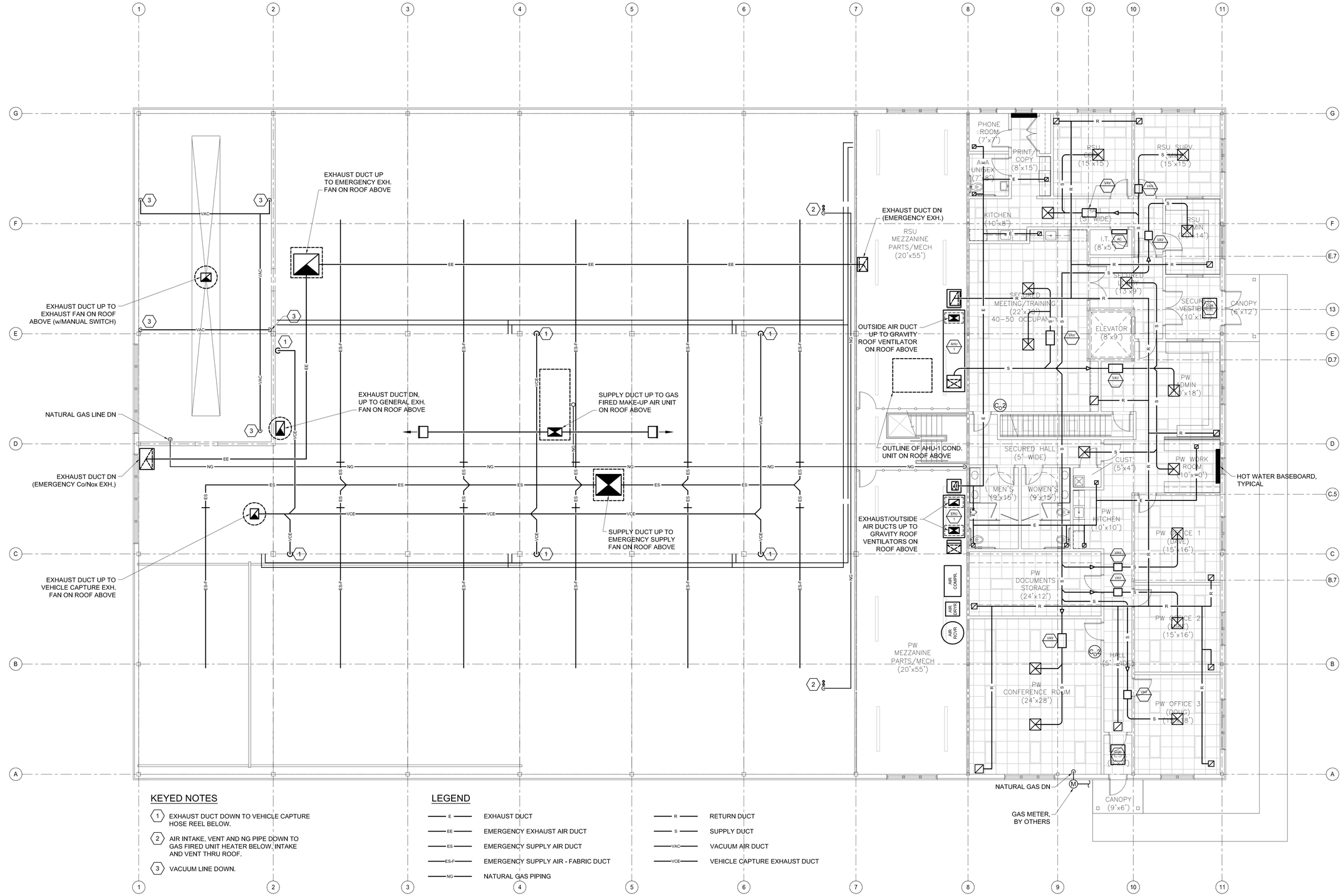

KEYED NOTES

1. EXHAUST DUCT DOWN TO VEHICLE CAPTURE HOSE REEL BELOW.
2. AIR INTAKE, VENT AND NG PIPE DOWN TO GAS FIRED UNIT HEATER BELOW. INTAKE AND VENT THRU ROOF.
3. VACUUM LINE DOWN.

LEGEND

E	EXHAUST DUCT	R	RETURN DUCT
EE	EMERGENCY EXHAUST AIR DUCT	S	SUPPLY DUCT
ES	EMERGENCY SUPPLY AIR DUCT	VAC	VACUUM AIR DUCT
ES-F	EMERGENCY SUPPLY AIR - FABRIC DUCT	VCE	VEHICLE CAPTURE EXHAUST DUCT
NG	NATURAL GAS PIPING		

A1 | MECHANICAL PLAN ~ UPPER LEVEL

1/8" = 1'-0"

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MECHANICAL PLAN ~ UPPER LEVEL

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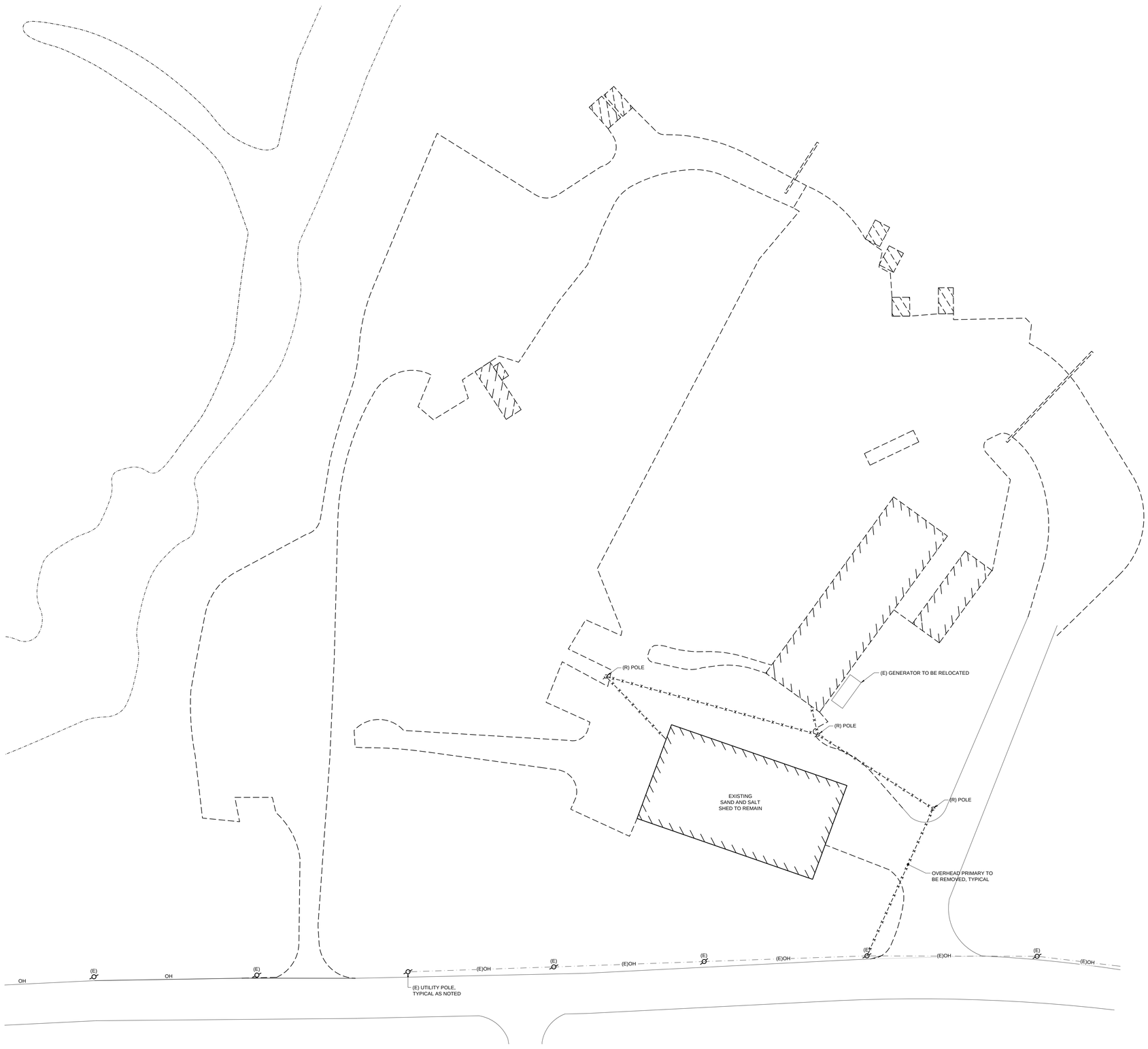

—·—OH—·—	OVERHEAD WIRING
–x–x–x–x–x–x–	WIRING TO BE DEMOLISHED
	UTILITY POLE
	FUSED DISCONNECT SWITCH
	NON-FUSED DISCONNECT SWITCH
	MOTOR
	GROUNDING SYSTEM
J	JUNCTION BOX, WALL MOUNTED
J	JUNCTION BOX, IN-GROUND
M	ELECTRICAL MANHOLE, COORDINATE LOCATION WITH OTHER UNDERGROUND UTILITIES
T	PADMOUNT TRANSFORMER
PB	4'X6' PULL BOX WITH 32" COVER PLATE IN ACCORDANCE WITH UTILITY STANDARDS
P	PEDESTAL LOCATION, PEDESTAL BY SERVICE PROVIDER, STUB UP (2) 2" CONDUITS WITH CONNECTORS AND BUSHINGS FROM HANDHOLE
H	HANDHOLE, MINIMUM 18"x36"x24", SIZE PER NEC FOR NUMBER OF CONDUITS INSTALLED
M	METER & CT CABINET, PEDESTAL MOUNTED
	SINGLE POLE MOUNTED LIGHT
	DOUBLE POLE MOUNTED LIGHT
	WALL MOUNTED LIGHT FIXTURE
	SINGLE POLE HOMERUN: (2)#12+(1)#12G UNO, CONNECT TO PANEL INDICATED
	SINGLE-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT, CONNECT TO PANEL INDICATED
	3-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT, CONNECT TO PANEL INDICATED

A1 ELECTRICAL SITE PLAN ~ DEMOLITION

1"=30'-0"

A9 ELECTRICAL LEGEND

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REVISIONS

NUMBER	DATE	BY	DESCRIPTION

Date: -
Drawn By: DLL
Checked By: SRM
Project Mgr: WPF
Project No: 15035
Cad File: 15035_E.dwg
Graphic Scale: 0 1"

ELECTRICAL SITE PLAN
DEMOLITION

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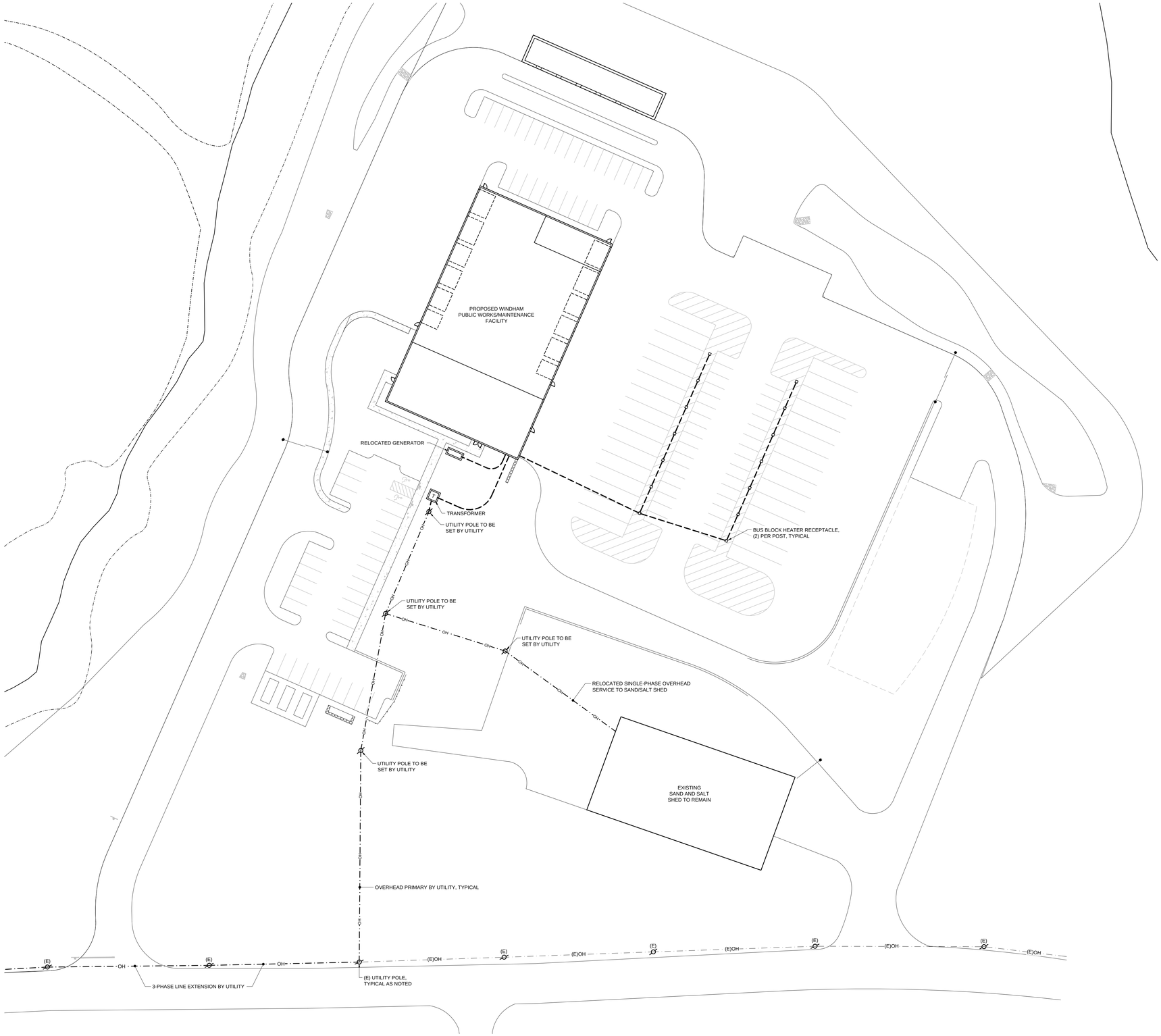

OH	OVERHEAD WIRING
UG	UNDERGROUND OR UNDERSLAB WIRING
	UTILITY POLE
	FUSED DISCONNECT SWITCH
	NON-FUSED DISCONNECT SWITCH
	MOTOR
	GROUNDING SYSTEM
J	JUNCTION BOX, WALL MOUNTED
J	JUNCTION BOX, IN-GROUND
M	ELECTRICAL MANHOLE, COORDINATE LOCATION WITH OTHER UNDERGROUND UTILITIES
T	PADMOUNT TRANSFORMER
PB	4'X6' PULL BOX WITH 32" COVER PLATE IN ACCORDANCE WITH UTILITY STANDARDS
P	PEDESTAL LOCATION, PEDESTAL BY SERVICE PROVIDER, STUB UP (2) 2" CONDUITS WITH CONNECTORS AND BUSHINGS FROM HANDHOLE
H	HANDHOLE, MINIMUM 18"x36"x24", SIZE PER NEC FOR NUMBER OF CONDUITS INSTALLED
M	METER & CT CABINET, PEDESTAL MOUNTED
	SINGLE POLE MOUNTED LIGHT
	DOUBLE POLE MOUNTED LIGHT
	WALL MOUNTED LIGHT FIXTURE
	SINGLE POLE HOMERUN: (2)#12+(1)#12G UNO, CONNECT TO PANEL INDICATED
	SINGLE-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT, CONNECT TO PANEL INDICATED
	3-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT, CONNECT TO PANEL INDICATED

A1	ELECTRICAL SITE PLAN ~ NEW CONDITIONS
1"=30'-0"	
A9	ELECTRICAL LEGEND

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Checked By: SRM
Project Mgr: WPF
Project No: 15035
Cad File: 15035_E.dwg
Graphic Scale: 0 1"

ELECTRICAL SITE PLAN
NEW CONDITIONS

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A	AMPERE
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERES INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BKBD	BACKBOARD
C	CONDUIT
CAT	CATALOG, CATEGORY
CATV	CABLE TV
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CM	CIRCULAR MILS
COMM	COMMUNICATIONS
CU	MECH CONDENSING UNIT
CU	COPPER
CUH	CABINET UNIT HEATER
DC	DIRECT CURRENT
DDC	DIGITAL DIRECT CONTROL
DN	DOWN
DW	DISHWASHER
DWG	DRAWING
EF	EXHAUST FAN
ELEV	ELEVATOR
EMT	ELECTRICAL METALLIC TUBING
EP	EXPLOSION PROOF
ERU	ENERGY RECOVERY UNIT
EWC	ELECTRIC WATER COOLER
FACP	FIRE ALARM CONTROL PANEL
FB	FLOOR BOX
FLA	FULL LOAD AMPS
FWE	FURNISHED WITH EQUIPMENT
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTO SELECTOR SWITCH
HP	HORSEPOWER
HVAC	HEATING, VENTILATION AND COOLING UNIT
IDS	INTRUSION DETECTION SYSTEM
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
IR	INFRARED
K	KILO
KCMIL	KILO CIRCULAR MILS
KW	KILOWATT
KVA	KILO VOLT-AMPS
LAN	LOCAL AREA NETWORK
LC	LIGHTING CONTACTOR
LF	LINEAR FEET
LC	LOADCENTER
LCP	LIGHTING CONTROL PANEL
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
LTS	LIGHTS
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MECH	MECHANICAL
MH	MOUNTING HEIGHT
MC	MICROPHONE
MICRO	MICROWAVE
MLO MT	MAIN LUG ONLY MOUNT
MTS	MANUAL TRANSFER SWITCH
MCP	MOTOR CONTROL PANEL
MH	METAL HALIDE
MDP	MAIN DISTRIBUTION PANEL
MIN	MINIMUM
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NF	NON-FUSED
NO	NORMALLY OPEN
NO., #	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OCC	OCCUPANCY
OH	OVERHEAD
P	POLE
PA	PUBLIC ADDRESS
PH,	PHASE
PIR	PASSIVE INFRARED
PNL	PANELBOARD
P/O	PART OF
PV	PHOTOVOLTAIC
PVC	POLY-VINYL CHLORIDE
REC, RECEPT	RECEPTACLE
REF	REFRIGERATOR
RF	RETURN FAN
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RMC	RIGID METAL CONDUIT
RTU	ROOFTOP UNIT
REF	REFRIGERATOR
SF	SUPPLY FAN
SPDT	SINGLE POLE, DOUBLE THROW
SQ	SQUARE
TEL	TELEPHONE
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UF	UNDER FLOOR
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITER'S LABORATORY
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
WP	WEATHERPROOF
WG	WIREGUARD
XFMR	TRANSFORMER
(E)	EXISTING ITEM TO REMAIN
(R)	REMOVE ITEM AND DISPOSE OF PROPERLY
(ER)	RELOCATED ITEM AT NEW LOCATION
(RL)	REMOVE AND RELOCATE

A1 ABBREVIATIONS

NO SCALE

LIGHT FIXTURE, RECESSED TROFFER, TYPICAL
RECESSED DOWNLIGHT
RECESSED WALL WASHER DOWNLIGHT
WALL MOUNTED LIGHT FIXTURE
CEILING SURFACE MOUNTED LIGHT FIXTURE
PENDANT MOUNTED LIGHT FIXTURE
LINEAR LIGHT FIXTURE, CEILING SURFACE MOUNTED
LINEAR LIGHT FIXTURE, PENDANT MOUNTED
LINEAR LIGHT FIXTURE, WALL MOUNTED
RB — REMOTE BALLAST, ALLOW 9" IN ALL DIRECTIONS BETWEEN BALLASTS

TYPICAL FOR ALL FIXTURE TYPES:

F1 a # — INDICATES LUMINAIRE TYPE ON SCHEDULE; LOWER CASE LETTER INDICATES SWITCHING; INDICATES CIRCUIT NUMBER

F3 LUMINAIRES

NO SCALE

HATCHING INDICATES FIXTURE WITH ONE LAMP ON EMERGENCY BATTERY/BALLAST

EBU — EMER BATTERY UNIT WITH INTEGRAL HEADS, MT 7'-6"AFF, BP# INDICATES BATTERY UNIT DESIGNATION, CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, UNO.

EXIT SIGN, CEILING MOUNTED, SHADING INDICATES FACE(S), ARROWHEAD INDICATES CHEVRON(S) REQUIRED CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, UNO.

EXIT SIGN, WALL MOUNTED, SHADING INDICATES FACE(S), MOUNT AT 7'-6"AFF OR OVER DOOR, CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, UNO.

F5 EMERGENCY LUMINAIRES

NO SCALE

DUPLEX RECEPTACLE ~ 20A, 125V, 2P, 3W, NEMA 5-20R
DOUBLE DUPLEX RECEPTACLE
GFCI DUPLEX RECEPTACLE, MOUNT 44" AFF UNO
GFCI DOUBLE DUPLEX RECEPTACLE, MOUNT 44" AFF UNO
WP — GFCI RECEPTACLE WITH WEATHERPROOF COVER
GFCI RECEPTACLE IN WP ENCLOSURE ON ROOF
U — COMBO DUPLEX RECEPTACLE AND (2) USB CHARGING PORTS, MOUNT 18" AFF UNO.
UA — (4) PORT USB CHARGING OUTLET, MOUNT 18" AFF UNO

NOTES:

1. MOUNT RECEPTACLES WITH CENTERLINE 18" AFF UNO
2. MOUNT EXTERIOR RECEPTACLES WITH CENTERLINE 24" AFG UNO

F3 RECEPTACLES

NO SCALE

20A, 125V, 2P, 3W, NEMA 5-20R
20A, 125V, 2P, 3W, NEMA L5-20R (TWISTLOCK)
20A, 125/250V, 3P, 4W, GROUNDING, NEMA 14-20R
30A, 125/250V, 3P, 4W, GROUNDING, NEMA 14-30R, (3)#10+(1)#10G TO 30A, 2P CIRCUIT BREAKER
20A, 250V, 3ϕ, 3P, 4W, GROUNDING RECEPTACLE, NEMA 15-20R, (3)#12+(1)#12G TO 20A, 3P CIRCUIT BREAKER
30A, 250V, 2P, 3W, GROUNDING RECEPTACLE, NEMA 6-30R, (2)#10+(1)#10N+(1)#10G TO 30A, 3P CIRCUIT BREAKER

NOTE:

PROVIDE MATCHING CORD AND PLUG FOR SINGLE RECEPTACLES

F5 SINGLE RECEPTACLES

NO SCALE

TEL/DATA OUTLET, (1) VOICE AND (2) DATA PORTS PER OUTLET, MOUNT 18" AFF UNO
DATA OUTLET WITH (2) DATA PORTS, MOUNT 18" AFF UNO
W — WALL PHONE, MOUNT 48" AFF UNO

TECHNOLOGY GENERAL NOTES

1. FOR EACH TECHNOLOGY OUTLET, PROVIDE A 1-GANG BOX WITH 1-GANG ADAPTER. PROVIDE A 1" CONDUIT FROM EACH OUTLET BOX TO 6' ABOVE THE NEAREST ACCESSIBLE CEILING THAT IS CONTIGUOUS TO CABLE TRAY PATHWAY.

C3 TECHNOLOGY

NO SCALE

NOTE

SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT NECESSARILY INDICATE THEIR INCORPORATION INTO THE DESIGN

LSE — LOCAL SOUND EQUIPMENT
MIC — MICROPHONE JACK OUTLET
LSS — LOCAL SOUND SYSTEM LARGE SPEAKER
LS — LOCAL SOUND SYSTEM SPEAKER

C5 LOCAL SOUND SYSTEM

NO SCALE

1. BRANCH CIRCUIT WIRING NOT SHOWN. WIRE AND CONNECT ELECTRICAL ITEMS TO CIRCUITS INDICATED.
2. DISCONNECT, REMOVE, RELOCATE, AND RECONNECT ELECTRICAL CONDUIT, WIRING, DEVICES, BOXES, FIXTURES, EQUIPMENT, ETC. AS INDICATED AND AS REQUIRED TO FACILITATE THE WORK OF DIVISION 26 AND OTHER DIVISIONS. THESE DRAWINGS ARE NOT INTENDED TO INDICATE ALL ITEMS TO BE REMOVED.
3. DO NOT SCALE THE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS FOR EXACT DIMENSIONS.
4. THE LOCATION OF EQUIPMENT, OUTLETS, ETC. AS GIVEN ON THE DRAWINGS IS APPROXIMATE. IT SHALL BE UNDERSTOOD THAT THESE LOCATIONS ARE SUBJECT TO MODIFICATION AS MAY BE FOUND NECESSARY OR DESIRABLE AT THE TIME OF INSTALLATION IN ORDER TO MEET PROJECT REQUIREMENTS. SUCH CHANGES SHALL BE MADE WITHOUT EXTRA CHARGE.
5. COORDINATE ALL WORK WITH OTHER DIVISIONS AND THE OWNER.
6. VERIFY EXACT POWER REQUIREMENTS OF EQUIPMENT PRIOR TO ROUGH IN
7. POWER WIRING FOR EQUIPMENT & CONTROL SHALL BE PERFORMED BY DIVISION 26. ALL CONTROL WIRING OPERATING AT LESS THAN 120 VOLTS FOR MECHANICAL EQUIPMENT SHALL BE BY DIVISION 23.
8. NO WIRING THAT BECOMES UNUSED AS PART OF THIS PROJECT SHALL BE ABANDONED IN PLACE.
9. COORDINATE LOCATIONS OF WALL MOUNTED LIGHT FIXTURES AND OTHER ELECTRICAL ITEMS WITH ARCHITECTURAL INTERIOR ELEVATIONS.

A3 GENERAL NOTES

NO SCALE

SEC — SECURITY PANEL, MOUNT WITH TOP OF PANEL NOT MORE THAN 72"AFF
ANN — ANNUNCIATOR, MOUNT WITH TOP OF PANEL NOT MORE THAN 72"AFF
KP — KEYPAD, MOUNT 48"AFF
MSP — MOTION SENSOR, PASSIVE INFRARED (PIR), WALL MOUNTED 96"AFF
MSP — MOTION SENSOR, PASSIVE INFRARED (PIR), CEILING MOUNTED
MSM — MOTION SENSOR, MICROWAVE, WALL MOUNTED
MSM — MOTION SENSOR, MICROWAVE, CEILING MOUNTED
MS — MOTION SENSOR, DUAL TECHNOLOGY, PIR/MICROWAVE, WALL MOUNTED
MS — MOTION SENSOR, DUAL TECHNOLOGY, PIR/MICROWAVE, CEILING MOUNTED
C — CAMERA
CA — CARD ACCESS
DC — DOOR CONTACT
DL — MAGNETIC DOOR LOCK
DR — DOOR RELEASE BUTTON
ES — ELECTRIC STRIKE
B — BELL
C — CHIME
SS — STROBE
SH — HORN
T — TRANSFORMER

A5 SECURITY SYSTEM

NO SCALE

FACP — FIRE ALARM CONTROL PANEL, MOUNT WITH TOP OF PANEL NOT MORE THAN 72"AFF
FAA — FIRE ALARM ANNUNCIATOR, MOUNT WITH TOP OF PANEL NOT MORE THAN 72"AFF
S — SMOKE DETECTOR
S E — SMOKE DETECTOR, "E" INDICATES CONNECTION FOR ELEVATOR RECALL
H — HEAT DETECTOR
H E — HEAT DETECTOR, "E" INDICATES CONNECTION FOR ELEVATOR RECALL
D — DUCT SMOKE DETECTOR
G — GAS VALVE
F — FLAME DETECTOR, ARROW INDICATES DIRECTION OF COVERAGE
RTS — REMOTE TEST/INDICATOR FOR DUCT SMOKES, MOUNT ON CEILING BENEATH UNIT, OR WALL MOUNT WHERE INDICATED ON PLANS
F — MANUAL PULL STATION, MOUNT 48" AFF
30 F — HORN/STROBE NOTIFICATION APPLIANCE, CANDELA AS NOTED ON PLANS
30 F C — HORN/STROBE NOTIFICATION APPLIANCE MOUNTED ON CEILING OR STRUCTURE, CANDELA AS NOTED ON PLANS
30 S — SPEAKER/STROBE NOTIFICATION APPLIANCE, CANDELA AS NOTED ON PLANS
15 S — STROBE ONLY NOTIFICATION APPLIANCE, CANDELA AS NOTED ON PLANS
R S — STROBE NOTIFICATION APPLIANCE, 15 CANDELA, 120V, CONNECT TO OPERATE UPON ACTIVATION OF ROOM SMOKE DETECTOR
M — MINI HORN NOTIFICATION APPLIANCE
30 F E — HORN/STROBE WITH PULL STATION DIRECTLY BELOW
MH — MAGNETIC DOOR HOLD OPEN DEVICE
T — TRANSFORMER
F — SPRINKLER SYSTEM WATER FLOW SWITCH, PROVIDED UNDER DIVISION 23, WIRED UNDER DIVISION 26
T — SPRINKLER SYSTEM TAMPER SWITCH, PROVIDED UNDER DIVISION 23, WIRED UNDER DIVISION 26
C — SPRINKLER SYSTEM CHECK VALVE PRESSURE SWITCH, FURNISHED AND INSTALLED UNDER DIVISION 23, WIRED UNDER DIVISION 26
P — SPRINKLER SYSTEM EXCESS PRESSURE PUMP, FURNISHED AND INSTALLED UNDER DIVISION 23, WIRED UNDER DIVISION 26
K — KNOX BOX, PROVIDE IN ACCORDANCE WITH LOCAL FIRE DEPARTMENT REQUIREMENTS
SD — SMOKE DAMPER
FSD — FIRE AND SMOKE DAMPER

D7 FIRE ALARM SYSTEM

NO SCALE

$a — LIGHT SWITCH, 20A,125/277V
$3 — THREE-WAY LIGHT SWITCH
$4 — FOUR-WAY LIGHT SWITCH
$2 — TWO-POLE SWITCH
$K — KEY OPERATED SWITCH
$M — MOTOR RATED SWITCH
$P — SINGLE POLE SWITCH WITH RED PILOT LIGHT ~ RED LIGHT SHALL GLOW WHEN CIRCUIT IS ENERGIZED
$a,b — MULTI-GANGED SWITCHES, GANG UNDER ONE PLATE, LETTER INDICATES SWITCHING
$OS — OCCUPANCY SENSOR SWITCH, WALL MOUNTED
$OS2 — 2-BUTTON OCCUPANCY SENSOR SWITCH
OS — OCCUPANCY SENSOR, CEILING MOUNTED
OS — OCCUPANCY SENSOR, WALL MOUNTED
$D — DIMMER SWITCH ~ COORDINATE DIMMING TECHNOLOGY WITH LOAD TO BE DIMMED
$HF, $HL — HANDICAP SWITCHES FOR HOOD LIGHT AND FAN
$T — TIMER SWITCH, 60 MINUTES
$LV — LOW VOLTAGE LIGHT SWITCH, MOMENTARY CONTACT
$E — LUTRON GRAFIK EYE ENTRANCE STATION ~ SCENE 1 AND OFF
GRX — LUTRON GRAFIK EYE SCENE CONTROLLER
LCP — LIGHTING CONTROL PANEL
PC — PHOTOCELL

NOTES:

1. MOUNT LIGHT SWITCHES WITH CENTERLINE 48" AFF, UNO
2. LOWER CASE LETTER AT SWITCH INDICATES SWITCHING

A7 LIGHT SWITCHES

NO SCALE

PANELBOARD ~ SURFACE MOUNTED
PANELBOARD ~ FLUSH MOUNTED
FUSED DISCONNECT SWITCH
NON-FUSED DISCONNECT SWITCH
00 — MOTOR STARTER ~ NUMBER INDICATES NEMA SIZE
00 — COMBINATION MOTOR STARTER/FUSED DISCONNECT
MECHANICAL PUMP
MOTOR OR FAN
M — METER AND CABINET
J — JUNCTION BOX ~ CEILING MOUNTED
J — JUNCTION BOX ~ WALL MOUNTED
J — JUNCTION BOX ~ FLOOR MOUNTED
J — JUNCTION BOX ~ PEDESTAL MOUNTED
T# — TRANSFORMER ~ NUMBER INDICATES DESIGNATION SEE TRANSFORMER SCHEDULE
VFD — VARIABLE FREQUENCY DRIVE
TVSS — TRANSIENT VOLTAGE SURGE SUPPRESSOR
E — EMERGENCY SHUTOFF SWITCH ~ WALL MOUNTED 48" TO CENTERLINE ~ PROVIDE TAMPER-PROOF COVER
CONDUIT TURNING UP
CONDUIT TURNING DOWN
WIRING UNDERGROUND OR UNDERSLAB
HOMERUN ~ (2)#12+(1)#12G UNO (EXCEPT COMPUTER AND LIGHTING CIRCUITS: (1)#12+(1)#10N+(1)#12G UNO)
SINGLE-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT
3-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT
FLEXIBLE CONNECTION
GROUNDING ELECTRODE SYSTEM PER NEC 250
P — POWER POLE
PUSHBUTTON
C — DOORBELL CHIME
F — SYSTEMS FURNITURE WHIP
P — MOTORIZED DOOR OPERATOR AND PUSH PADDLE ~ FURNISHED BY DIVISION 08, WIRED BY DIVISION 26

D9 POWER DISTRIBUTION

NO SCALE

F — DUPLEX RECEPTACLE, 20A, 125V, 2P, 3W, NEMA 5-20R, MOUNT IN FLUSH FLOOR BOX
F — DOUBLE DUPLEX RECEPTACLE, 20A, 125V, 2P, 3W, NEMA 5-20R, MOUNT IN FLUSH FLOOR BOX
F J — JUNCTION BOX, MOUNT IN FLUSH FLOOR BOX
F E — EMPTY FLUSH FLOOR BOX
P — DUPLEX RECEPTACLE, PEDESTAL MOUNTED
P — SINGLE RECEPTACLE, PEDESTAL MOUNTED
P J — JUNCTION BOX, PEDESTAL MOUNTED
C — DUPLEX RECEPTACLE, FLUSH MOUNTED IN CEILING
C — DOUBLE DUPLEX RECEPTACLE, FLUSH MOUNTED IN CEILING
C — DUPLEX GFCI RECEPTACLE, FLUSH MOUNTED IN CEILING
C — DOUBLE DUPLEX GFCI RECEPTACLE, FLUSH MOUNTED IN CEILING
C — DATA OUTLET, FLUSH MOUNTED IN CEILING, SEE SCHEDULE FOR TYPE
C J — JUNCTION BOX, FLUSH MOUNTED IN CEILING
OVERHEAD RECEPTACLE DROP, DUPLEX NEMA 5-20R
OVERHEAD RECEPTACLE DROP, DOUBLE DUPLEX
OVERHEAD DATA DROP
CORD DROP, 30A, 125/250V, 3P, 4W, GROUNDING, NEMA 14-30R, (3)#10+(1)#10G TO 30A, 2P CIRCUIT BREAKER
INDUSTRIAL CORD REEL WITH 45' CORD AND 20A DUPLEX RECEPTACLE WITH GFCI PROTECTION, CORD REEL PLUGS INTO RECEPTACLE AT SYMBOL LOCATION ON PLAN, BASIS OF DESIGN: HUBBELL #HBL45123GF20

A9 FLOOR AND CEILING DEVICES

NO SCALE

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REVISIONS

NUMBER	DATE	BY	DESCRIPTION

Date: -
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Checked By: SRM
Project Mgr: WPF
Project No: 15035
Cad File: 15035_E.dwg
Graphic Scale: 0 1"

ELECTRICAL LEGENDS, ABBREVIATIONS AND GENERAL NOTES

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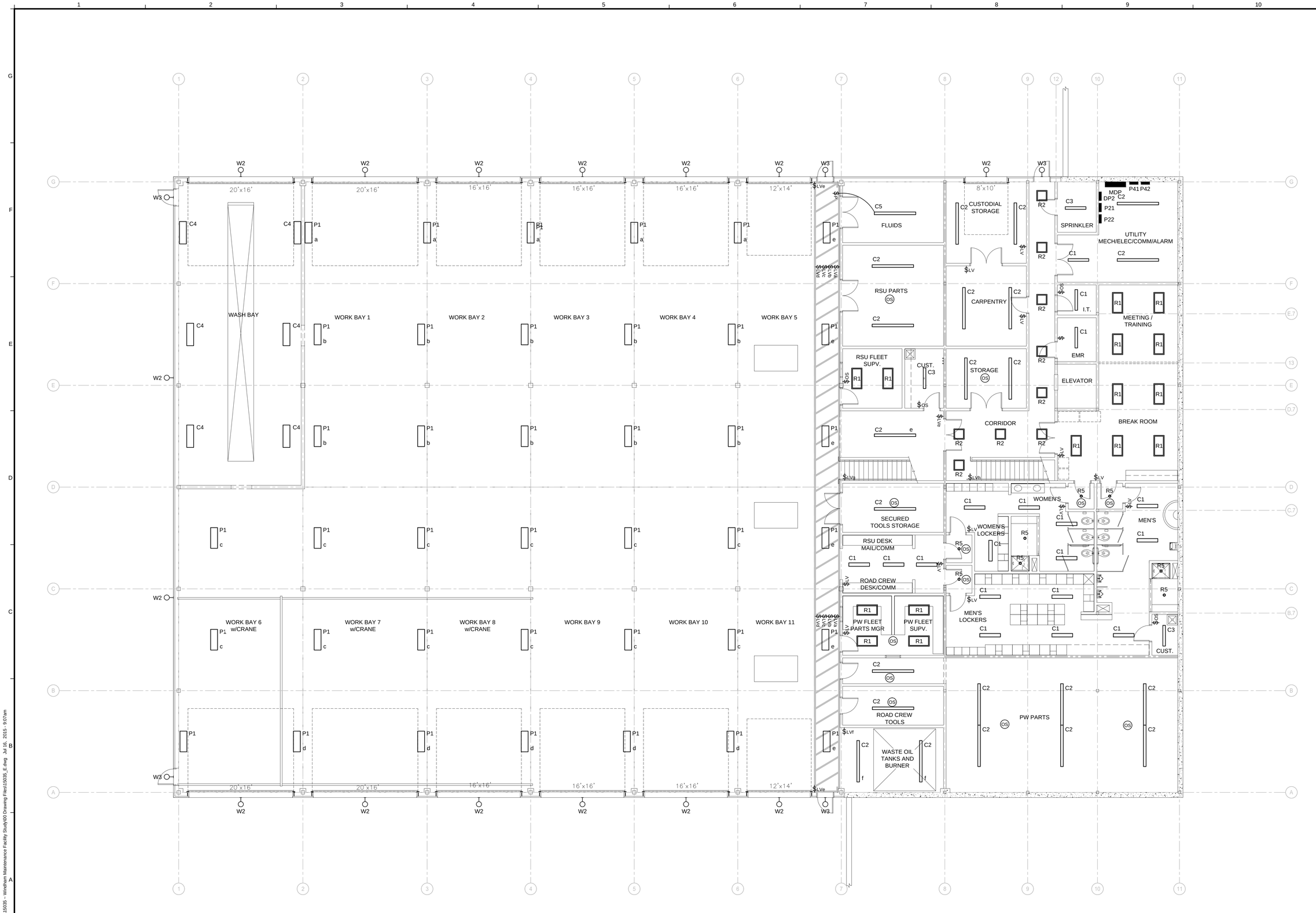

A1 | LIGHTING PLAN ~ LOWER LEVEL

1/8" = 1'-0"

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Checked By: SRM
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LIGHTING PLAN
LOWER LEVEL

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Checked By: SRM
Project Mgr: WPF
Project No: 15035
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LIGHTING PLAN
UPPER LEVEL

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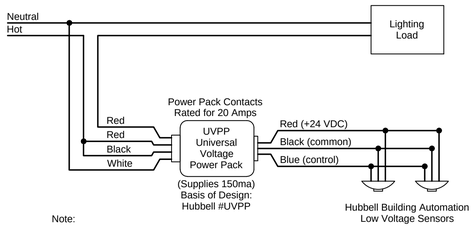
SCHEMATIC DRAWINGS ~ 17 JULY 2015 ~ NOT FOR CONSTRUCTION

A1	LIGHTING PLAN ~ UPPER LEVEL
1/8" = 1'-0"	

N:\Projects\2015\15035 - Windham Maintenance Facility Study\00 Drawing Files\15035_E.dwg Jul 16, 2015 - 11:49am

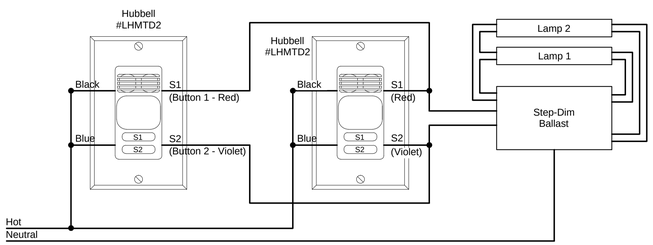


Note:

Do NOT power more than 4 devices, sensor or slave packs, from a single power pack.

LIGHTING CONTROL SHALL BE AUTO ON AND AUTO OFF BY CEILING OCCUPANCY SENSOR(S)

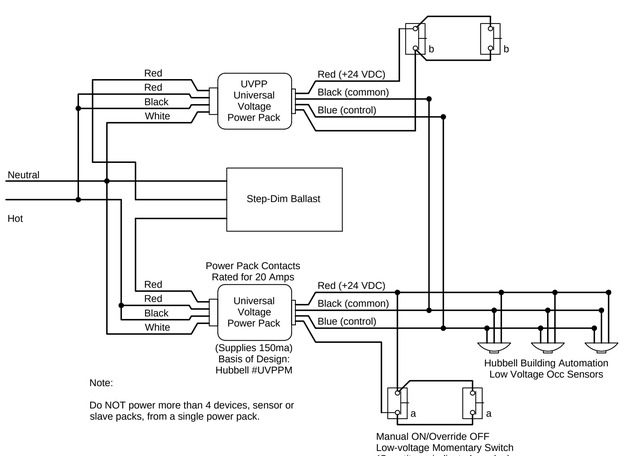
F1	CEILING SENSORS WITH AUTO ON/AUTO OFF
NO SCALE	



Full Light Output (Full Power): S1 and S2 Closed
Step-Dim Mode (50% Power): S1 or S2 Open

LIGHTING CONTROL SHALL BE STEP DIMMING WITH 2-BUTTON WALL MOUNTED OCCUPANCY SENSOR SWITCH(ES) WITH MANUAL ON/AUTO OFF OPERATION

D1	STEP DIMMING WITH 2-BUTTON OCCUPANCY SENSOR
NO SCALE	



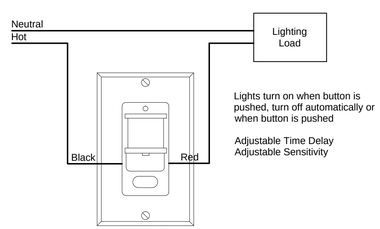
Note:

Do NOT power more than 4 devices, sensor or slave packs, from a single power pack.

Full Light Output (Full Power): Sa and Sb Closed
Step-Dim Mode (50% Power): Sa or Sb Open

LIGHTING CONTROL SHALL BE STEP DIMMING WITH MANUAL ON BY LOW VOLTAGE WALL SWITCH AND AUTO OFF BY CEILING MOUNTED OCCUPANCY SENSOR(S)

A1	STEP DIMMING WITH AUTO OFF
NO SCALE	



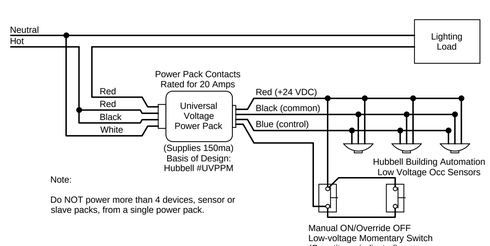
Lights turn on when button is pushed, turn off automatically or when button is pushed

Adjustable Time Delay
Adjustable Sensitivity

Basis of Design: Hubbell #IWSZP3P

LIGHTING CONTROL SHALL BE MANUAL ON/AUTO OFF WALL SENSOR SWITCH

C4	WALL SWITCH SENSOR
NO SCALE	



Note:

Do NOT power more than 4 devices, sensor or slave packs, from a single power pack.

LIGHTING CONTROL SHALL BE MANUAL ON/AUTO OFF VIA CEILING SENSOR(S)

A4	CEILING SENSORS WITH MANUAL ON/AUTO OFF
NO SCALE	

A6	

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MFR	CATALOG SERIES NUMBER SEE NOTE 1	MOUNTING	VOLTS	LAMP			KEY NOTES
						QTY PER FIXTURE	WATTS	TYPE	
C1	4' LENSED STRIP LIGHT	LITHONIA	ST5-2-28T5	SEE PLANS	277	2	28	T5 3500K	4
C2	8' STRIP WITH WIRE GUARDS	LITHONIA	TZ228T5-GEB10PS-WGZ46	CEILING OR CHAIN	277	4	28	T5 3500K	6,7
C3	4' STRIP WITH WIRE GUARD	LITHONIA	Z228T5-GEB10PS-WGZ46	CEILING OR CHAIN	277	2	28	T5 3500K	6,7
C4	WASH BAY LIGHT	LITHONIA	FHELED-9L/35-FST	CEILING SURFACE	277	-	118	LED ARRAY 3500K	
C5	EXPLOSION PROOF LIGHT								
P1	LED HIGH BAY	LITHONIA	IBL-18L-WD-SD125-LP740DL C	AIRCRAFT CABLE	277	-	199	LED ARRAY 4000K	
R1	2x4 HIGH PERFORMANCE TROFFER	FINELITE	HPR-A-2x4-DCO-2T5-PS	RECESSED	277	2	28	T5 3500K	4
R2	2x2 HIGH PERFORMANCE TROFFER	FINELITE	HPR-A-2x2-DCO-2T5-PS	RECESSED	277	2	14	T5 3500K	4
R3	2x4 LENSED GRID TROFFER	LITHONIA	SP5G-228T5-A19	RECESSED	277	3	28	T5 3500K	4
R4	2x2 LENSED GRID TROFFER	LITHONIA	SP5G-214T5-A19	RECESSED	277	2	14	T5 3500K	4
R5	4" DIAMETER DOWNLIGHT	PRESCOLITE	LF4LED-4LFLED5	RECESSED	277	-	18.5	LED ARRAY 3500K	
W1	UTILITY LIGHT	LUMINAIRE LIGHTING	LVP88-2PLT26-120-CP-WHT-DAMP	SURFACE	UNV	2	26	COMPACT FLUORESCENT	7
W2	LED EXTERIOR WALL	PHILIPS GARDCO	161-CW-2-70LA-6435-NW	WALL 18'	277	-	75	LED ARRAY	
W3	OVER DOOR EGRESS LIGHT	LUMINAIRE LIGHTING	AEL24-22WLED-DP-BZH	WALL 8" OVER DOOR	277	-	22	LED ARRAY	
	EXIT SIGN	LITHONIA	LXW3R	SEE NOTE 3	277	-	3.8	LED ARRAY	3

LUMINAIRE SCHEDULE NOTES

1	**NOTE THAT THESE NUMBERS ARE NOT COMPLETE CATALOG #'S. PROVIDE ALL REQUIREMENTS ON SCHEDULE,NOTES, SPECS, AND DRAWINGS COMBINED.**
2	**CATALOG SERIES NUMBERS ARE USED TO ESTABLISH A LEVEL OF QUALITY AND NOT INTENDED TO LIMIT COMPETITION. SERIES NUMBERS ARE NOT COMPLETE CATALOG NUMBERS. COMPLY WITH ADDITIONAL REQUIREMENTS IN SPECIFICATIONS AND DRAWINGS.**
3	PROVIDE WALL,CEILING, OR PENDANT MOUNTING AS INDICATED ON PLANS. PROVIDE NUMBER OF FACES AND ARROWS AS INDICATED.
4	PROVIDE PROGRAMMED START BALLAST WITH ROOMS THAT HAVE OCCUPANCY SENSORS.
5	VERIFY CEILING STRUCTURE AND MOUNTING HEIGHT PRIOR TO ORDERING ANY LIGHT FIXTURES.
6	(2) LAMPS IN CROSS SECTION
7	LIGHT FIXTURE LOCATIONS IN MECHANICAL ROOMS AND ELECTRIC ROOMS ARE APPROXIMATE. INSTALL LIGHTING TO AVOID DUCTWORK, PIPING AND ELECTRICAL ITEMS.

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NUMBER	DATE	BY	DESCRIPTION

Date: -
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Checked By: SRM
Project Mgr: WPF
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Graphic Scale: 0 1"

LIGHTING DETAILS AND SCHEDULE

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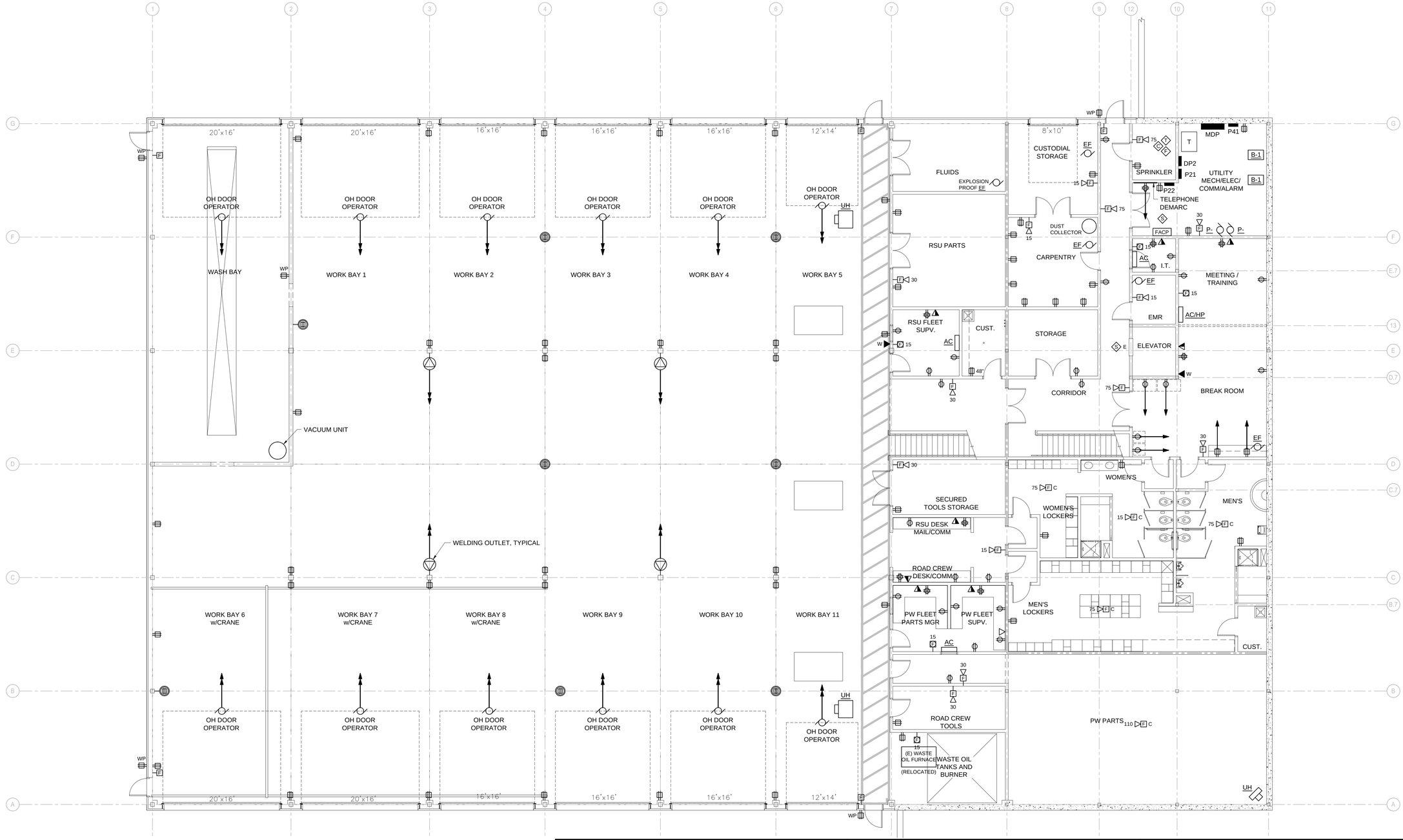

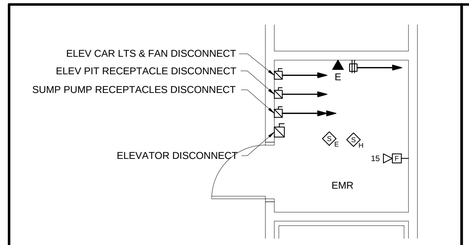

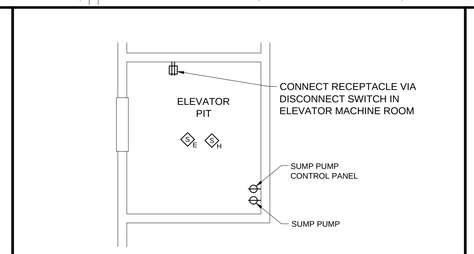

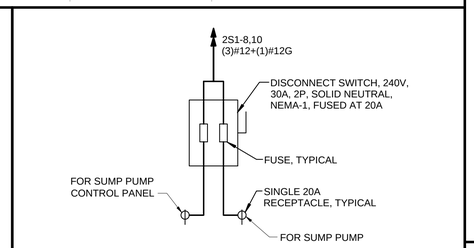

A1	POWER AND SYSTEMS PLAN ~ LOWER LEVEL	A5	ELEVATOR MACHINE ROOM DETAIL	A7	ELEVATOR PIT DETAIL	A9	SUMP PUMP RECEPTACLES WIRING DETAIL
1/8" = 1'-0"		1/4"=1'-0"		1/4"=1'-0"		NO SCALE	

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Checked By: SRM
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POWER AND SYSTEMS PLAN
LOWER LEVEL

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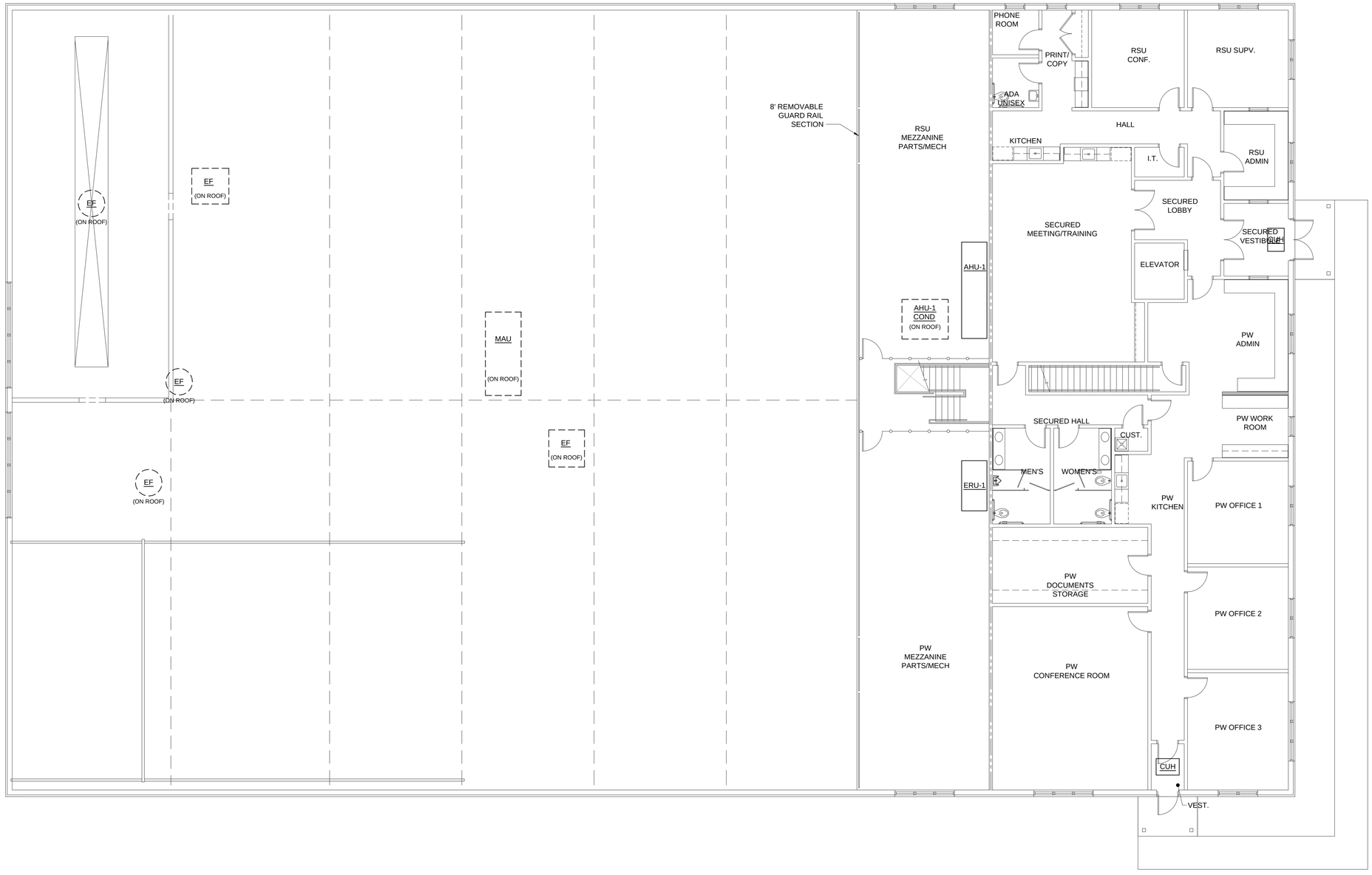

A1	POWER AND SYSTEMS PLAN ~ UPPER LEVEL
1/8" = 1'-0"	

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Date: -
Drawn By: DLL
Checked By: SRM
Project Mgr: WPF
Project No: 15035
Cad File: 15035_E.dwg
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POWER AND SYSTEMS PLAN
UPPER LEVEL

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PANEL SCHEDULE ~ MDP

VOLTAGE: 480/277V | MLO: | AIC:

3-PHASE, 4-WIRE

CIRCUIT BREAKER				CIRCUIT LOAD (KVA) CONNECTED			BRANCH CIRCUIT DESCRIPTION
CKT NO	BRKR SIZE	NO OF POLES	PH	A	B	C	
1		3	A	0.00			PANEL DP4
3			B		0.00		
5			C			0.00	
7	20	1	A	0.00			SPARE
9	20	1	B		0.00		SPARE
11	20	1	C			0.00	SPARE
13	20	1	A	0.00			SPARE
15	20	1	B		0.00		SPARE
17	20	1	C			0.00	SPARE
19	20	1	A	0.00			SPARE
21	20	1	B		0.00		SPARE
23	20	1	C			0.00	SPARE
25	20	1	A	0.00			SPARE
27	20	1	B		0.00		SPARE
29	20	1	C			0.00	SPARE
31	20	1	A	0.00			SPARE
33	20	1	B		0.00		SPARE
35	20	1	C			0.00	SPARE
37	20	1	A	0.00			SPARE
39	20	1	B		0.00		SPARE
41	20	1	C			0.00	SPARE
			SUBTOTAL	0.00	0.00	0.00	
2		3	A	0.00			PANEL DP2 VIA TRANSFORMER
4			B		0.00		
6			C			0.00	
8	20	1	A	0.00			SPARE
10	20	1	B		0.00		SPARE
12	20	1	C			0.00	SPARE
14	20	1	A	0.00			SPARE
16	20	1	B		0.00		SPARE
18	20	1	C			0.00	SPARE
20	20	1	A	0.00			SPARE
22	20	1	B		0.00		SPARE
24	20	1	C			0.00	SPARE
26	20	1	A	0.00			SPARE
28	20	1	B		0.00		SPARE
30	20	1	C			0.00	SPARE
32	20	1	A	0.00			SPARE
34	20	1	B		0.00		SPARE
36	20	1	C			0.00	SPARE
38	20	1	A	0.00			SPARE
40	20	1	B		0.00		SPARE
42	20	1	C			0.00	SPARE
			SUBTOTAL	0.00	0.00	0.00	

PANEL SCHEDULE ~ DP2

VOLTAGE: 208/120V | MLO: | AIC:

3-PHASE, 4-WIRE

CIRCUIT BREAKER				CIRCUIT LOAD (KVA) CONNECTED			BRANCH CIRCUIT DESCRIPTION
CKT NO	BRKR SIZE	NO OF POLES	PH	A	B	C	
1	225	3	A	0.00			PANEL P21
3			B		0.00		
5			C			0.00	
7	20	1	A	0.00			SPARE
9	20	1	B		0.00		SPARE
11	20	1	C			0.00	SPARE
13	20	1	A	0.00			SPARE
15	20	1	B		0.00		SPARE
17	20	1	C			0.00	SPARE
19	20	1	A	0.00			SPARE
21	20	1	B		0.00		SPARE
23	20	1	C			0.00	SPARE
25	20	1	A	0.00			SPARE
27	20	1	B		0.00		SPARE
29	20	1	C			0.00	SPARE
31	20	1	A	0.00			SPARE
33	20	1	B		0.00		SPARE
35	20	1	C			0.00	SPARE
37	20	1	A	0.00			SPARE
39	20	1	B		0.00		SPARE
41	20	1	C			0.00	SPARE
			SUBTOTAL	0.00	0.00	0.00	
2	225	3	A	0.00			PANEL P22
4			B		0.00		
6			C			0.00	
8	20	1	A	0.00			SPARE
10	20	1	B		0.00		SPARE
12	20	1	C			0.00	SPARE
14	20	1	A	0.00			SPARE
16	20	1	B		0.00		SPARE
18	20	1	C			0.00	SPARE
20	20	1	A	0.00			SPARE
22	20	1	B		0.00		SPARE
24	20	1	C			0.00	SPARE
26	20	1	A	0.00			SPARE
28	20	1	B		0.00		SPARE
30	20	1	C			0.00	SPARE
32	20	1	A	0.00			SPARE
34	20	1	B		0.00		SPARE
36	20	1	C			0.00	SPARE
38	20	1	A	0.00			SPARE
40	20	1	B		0.00		SPARE
42	20	1	C			0.00	SPARE
			SUBTOTAL	0.00	0.00	0.00	

PANEL SCHEDULE ~ P41

VOLTAGE: 480/277V | MLO: | AIC:

3-PHASE, 4-WIRE

CIRCUIT BREAKER				CIRCUIT LOAD (KVA) CONNECTED			BRANCH CIRCUIT DESCRIPTION
CKT NO	BRKR SIZE	NO OF POLES	PH	A	B	C	
1	20	1	A	0.00			SPARE
3	20	1	B		0.00		SPARE
5	20	1	C			0.00	SPARE
7	20	1	A	0.00			SPARE
9	20	1	B		0.00		SPARE
11	20	1	C			0.00	SPARE
13	20	1	A	0.00			SPARE
15	20	1	B		0.00		SPARE
17	20	1	C			0.00	SPARE
19	20	1	A	0.00			SPARE
21	20	1	B		0.00		SPARE
23	20	1	C			0.00	SPARE
25	20	1	A	0.00			SPARE
27	20	1	B		0.00		SPARE
29	20	1	C			0.00	SPARE
31	20	1	A	0.00			SPARE
33	20	1	B		0.00		SPARE
35	20	1	C			0.00	SPARE
37	20	1	A	0.00			SPARE
39	20	1	B		0.00		SPARE
41	20	1	C			0.00	SPARE
43	20	1	A	0.00			SPARE
45	20	1	B		0.00		SPARE
47	20	1	C			0.00	SPARE
49	20	1	A	0.00			SPARE
51	20	1	B		0.00		SPARE
53	20	1	C			0.00	SPARE
55	20	1	A	0.00			SPARE
57	20	1	B		0.00		SPARE
59	20	1	C			0.00	SPARE
61	20	1	A	0.00			SPARE
63	20	1	B		0.00		SPARE
65	20	1	C			0.00	SPARE
67	20	1	A	0.00			SPARE
69	20	1	B		0.00		SPARE
71	20	1	C			0.00	SPARE
			SUBTOTAL	0.00	0.00	0.00	
2	20	1	A	0.00			SPARE
4	20	1	B		0.00		SPARE
6	20	1	C			0.00	SPARE
8	20	1	A	0.00			SPARE
10	20	1	B		0.00		SPARE
12	20	1	C			0.00	SPARE
14	20	1	A	0.00			SPARE
16	20	1	B		0.00		SPARE
18	20	1	C			0.00	SPARE
20	20	1	A	0.00			SPARE
22	20	1	B		0.00		SPARE
24	20	1	C			0.00	SPARE
26	20	1	A	0.00			SPARE
28	20	1	B		0.00		SPARE
30	20	1	C			0.00	SPARE
32	20	1	A	0.00			SPARE
34	20	1	B		0.00		SPARE
36	20	1	C			0.00	SPARE
38	20	1	A	0.00			SPARE
40	20	1	B		0.00		SPARE
42	20	1	C			0.00	SPARE
44	20	1	A	0.00			SPARE
46	20	1	B		0.00		SPARE
48	20	1	C			0.00	SPARE
50	20	1	A	0.00			SPARE
52	20	1	B		0.00		SPARE
54	20	1	C			0.00	SPARE
56	20	1	A	0.00			SPARE
58	20	1	B		0.00		SPARE
60	20	1	C			0.00	SPARE
62	20	1	A	0.00			SPARE
64	20	1	B		0.00		SPARE
66	20	1	C			0.00	SPARE
68	20	1	A	0.00			SPARE
70	20	1	B		0.00		SPARE
72	20	1	C			0.00	SPARE
			SUBTOTAL	0.00	0.00	0.00	

PANEL SCHEDULE ~ P21

VOLTAGE: 208/120V | MLO: | AIC:

3-PHASE, 4-WIRE

CIRCUIT BREAKER				CIRCUIT LOAD (KVA) CONNECTED			BRANCH CIRCUIT DESCRIPTION
CKT NO	BRKR SIZE	NO OF POLES	PH	A	B	C	
1	20	1	A	0.00			SPARE
3	20	1	B		0.00		SPARE
5	20	1	C			0.00	SPARE
7	20	1	A	0.00			SPARE
9	20	1	B		0.00		SPARE
11	20	1	C			0.00	SPARE
13	20	1	A	0.00			SPARE
15	20	1	B		0.00		SPARE
17	20	1	C			0.00	SPARE
19	20	1	A	0.00			SPARE
21	20	1	B		0.00		SPARE
23	20	1	C			0.00	SPARE
25	20	1	A	0.00			SPARE
27	20	1	B		0.00		SPARE
29	20	1	C			0.00	SPARE
31	20	1	A	0.00			SPARE
33	20	1	B		0.00		SPARE
35	20	1	C			0.00	SPARE
37	20	1	A	0.00			SPARE
39	20	1	B		0.00		SPARE
41	20	1	C			0.00	SPARE
43	20	1	A	0.00			SPARE
45	20	1	B		0.00		SPARE
47	20	1	C			0.00	SPARE
49	20	1	A	0.00			SPARE
51	20	1	B		0.00		SPARE
53	20	1	C			0.00	SPARE
55	20	1	A	0.00			SPARE
57	20	1	B		0.00		SPARE
59	20	1	C			0.00	SPARE
61	20	1	A	0.00			SPARE
63	20	1	B		0.00		SPARE
65	20	1	C			0.00	SPARE
67	20	1	A	0.00			SPARE
69	20	1	B		0.00		SPARE
71	20	1	C			0.00	SPARE
			SUBTOTAL	0.00	0.00	0.00	
2	20	1	A	0.00			SPARE
4	20	1	B		0.00		SPARE
6	20	1	C			0.00	SPARE
8	20	1	A	0.00			SPARE
10	20	1	B		0.00		SPARE
12	20	1	C			0.00	SPARE
14	20	1	A	0.00			SPARE
16	20	1	B		0.00		SPARE
18	20	1	C			0.00	SPARE
20	20	1	A	0.00			SPARE
22	20	1	B		0.00		SPARE
24	20	1	C			0.00	SPARE
26	20	1	A	0.00			SPARE
28	20	1	B		0.00		SPARE
30	20	1	C			0.00	SPARE
32	20	1	A	0.00			SPARE
34	20	1	B		0.00		SPARE
36	20	1	C			0.00	SPARE
38	20	1	A	0.00			SPARE
40	20	1	B		0.00		SPARE
42	20	1	C			0.00	SPARE
44	20	1	A	0.00			SPARE
46	20	1	B		0.00		SPARE
48	20	1	C			0.00	SPARE
50	20	1	A	0.00			SPARE
52	20	1	B		0.00		SPARE
54	20	1	C			0.00	SPARE
56	20	1	A	0.00			SPARE
58	20	1	B		0.00		SPARE
60	20	1	C			0.00	SPARE
62	20	1	A	0.00			SPARE
64	20	1	B		0.00		SPARE
66	20	1	C			0.00	SPARE
68	20	1	A	0.00			SPARE
70	20	1	B		0.00		SPARE
72	20	1	C			0.00	SPARE
			SUBTOTAL	0.00	0.00	0.00	

PANEL SCHEDULE ~ P22

VOLTAGE: 208/120V | MLO: | AIC:

3-PHASE, 4-WIRE

CIRCUIT BREAKER				CIRCUIT LOAD (KVA) CONNECTED			BRANCH CIRCUIT DESCRIPTION
CKT NO	BRKR SIZE	NO OF POLES	PH	A	B	C	
1	20	1	A	0.00			SPARE
3	20	1	B		0.00		SPARE
5	20	1	C			0.00	SPARE
7	20	1	A	0.00			SPARE
9	20	1	B		0.00		SPARE
11	20	1	C			0.00	SPARE
13	20	1	A	0.00			SPARE
15	20	1	B		0.00		SPARE
17	20	1	C			0.00	SPARE
19	20	1	A	0.00			SPARE
21	20	1	B		0.00		SPARE
23	20	1	C			0.00	SPARE
25	20	1	A	0.00			SPARE
27	20	1	B		0.00		SPARE
29	20	1	C			0.00	SPARE
31	20	1	A	0.00			SPARE
33	20	1	B		0.00		SPARE
35	20	1	C			0.00	SPARE
37	20	1	A	0.00			SPARE
39	20	1	B		0.00		SPARE
41	20	1	C			0.00	SPARE
43	20	1	A	0.00			SPARE
45	20	1	B		0.00		SPARE
47	20	1	C			0.00	SPARE
49	20	1	A	0.00			SPARE
51	20	1	B		0.00		SPARE
53	20	1	C			0.00	SPARE
55	20	1	A	0.00			SPARE
57	20	1	B		0.00		SPARE
59	20	1	C			0.00	SPARE
61	20	1	A	0.00			SPARE
63	20	1	B		0.00		SPARE
65	20	1	C			0.00	SPARE
67	20	1	A	0.00			SPARE
69	20	1	B		0.00		SPARE
71	20	1	C			0.00	SPARE
			SUBTOTAL	0.00	0.00	0.00	
2	20	1	A	0.00			SPARE
4	20	1	B		0.00		SPARE
6	20	1	C			0.00	SPARE
8	20	1	A	0.00			SPARE
10	20	1	B		0.00		SPARE
12	20	1	C			0.00	SPARE
14	20	1	A	0.00			SPARE
16	20	1	B		0.00		SPARE
18	20	1	C			0.00	SPARE
20	20	1	A	0.00			SPARE
22	20	1	B		0.00		SPARE
24	20	1	C			0.00	SPARE
26	20	1	A	0.00			SPARE
28	20	1	B		0.00		SPARE
30	20	1	C			0.00	SPARE
32	20	1	A	0.00			SPARE
34	20	1	B		0.00		SPARE
36	20	1	C			0.00	SPARE
38	20	1	A	0.00			SPARE
40	20	1	B		0.00		SPARE
42	20	1	C			0.00	SPARE
44	20	1	A	0.00			SPARE
46	20	1	B		0.00		SPARE
48	20	1	C			0.00	SPARE
50	20	1	A	0.00			SPARE
52	20	1	B		0.00		SPARE
54	20	1	C			0.00	SPARE
56	20	1	A	0.00			SPARE
58	20	1	B		0.00		SPARE
60	20	1	C			0.00	SPARE
62	20	1	A	0.00			SPARE
64	20	1	B		0.00		SPARE
66	20	1	C			0.00	SPARE
68	20	1	A	0.00			SPARE
70	20	1	B		0.00		SPARE
72	20	1	C			0.00	SPARE
			SUBTOTAL	0.00	0.00	0.00	

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REVISIONS

NUMBER	DATE	BY	DESCRIPTION

Date: -
Drawn By: DLL
Checked By: SRM
Project Mgr: MPF
Project No: 15035
Cad File: 15035_E.dwg
Graphic Scale: 0 1"

ELECTRICAL DETAILS AND SCHEDULES

PUBLIC WORKS / MAINTENANCE FACILITY

WINDHAM, MAINE

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EP-600

SCHEMATIC DRAWINGS ~ 17 JULY 2015 ~ NOT FOR CONSTRUCTION

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