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# FIRE FLEET MAINTENANCE FACILITY

6200 HALEY SEGICH ROAD, MEMPHIS, TN 38134

COMMISSION NO. 2015478

SHELBY COUNTY SUPPORT SERVICES

CONSTRUCTION DOCUMENTS

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ISSUE DATE: 02/19/2016

## ABBREVIATIONS

### A

ACC	ACCESSORIES
ACT	ACOUSTICAL CEILING TILE
ADH	ADHESIVE
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
APPROX	APPROXIMATE
ARCH	ARCHITECT (ARCHITECTURAL)
AUTO	AUTOMATIC
AWC	ACOUSTICAL WALL COVERING

### B

BD	BOARD
BITUM	BITUMINOUS
BLDG	BUILDING
BM	BEAM
BOB	BOTTOM OF BEAM

### C

CAB	CABINET
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CP	CAST IN PLACE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CASED OPENING
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CPT	CARPET
CPT T	CARPET TILE
CR	CARD READER
CSVK	CASEWORK
CT	CERAMIC TILE
CTR	CENTER

### D

DBL	DOUBLE
DEMO	DEMOLITION
DIA	DIAMETER
DIAG	DIAGONAL
DIFF	DIFFUSER
DNM	DIMENSION
DISP	DISPENSER
DN	DOWN
DRAP	DRAPERY
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING

### E

E	EAST
EA	EACH
EPFS	EXTERIOR INSULATION FINISH SYSTEM
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATION
ELEV	ELEVATOR
EMER	EMERGENCY
EPXY	EPOXY

### E (CONTINUED)

EO	EQUAL
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EK	EXISTING
EXH	EXHAUST
EJ	EXPANSION JOINT
EXP	EXPOSED
EXT	EXTERIOR

### F

FA	FIRE ALARM
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FEL	FINISH FLOOR LINE
FHMS	FLAT HEAD METAL SCREW
FHWS	FLAT HEAD WOOD SCREW
FIN	FINISH
FLR	FLOORING
FP	FIREPROOF(ING)
FR	FLOOR RECEPTOR
FRGWB	FIBER-REINFORCED GYPSUM WALLBOARD
FSTNR	FASTENER
FT	FOOT (FEET)
FTG	FOOTING
FURR	FURRING

### G

GA	GAGE (GAUGE)
GALV	GALVANIZED
GB	GRAB BAR
GFRC	GLASS FIBER REINFORCED CONCRETE
GL	GLASS
GR	GRADE
GWB	GYPSUM WALL BOARD

### H

H	HYDROGEN
HB	HOSE BIB
HC	HANDICAPPED
HC	HOLLOW CORE
HOW	HARDWARE
HOWD	HARDWOOD
HT	HEIGHT
HORIZ	HORIZONTAL
HR	HANDRAIL
HSTWY	HOISTWAY
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING

### I

IB	INTEGRAL BASE
ID	INSIDE DIAMETER
INCL	INCLUDE
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR

### J

JT	JOINT
----	-------

### K

KO	KNOCK-OUT
KP	KEYPAD DEVICE

### L

LAM	LAMINATE(D)
LB	POUND(S)
LH	LEFT HAND
LINO	LINOLEUM
LKRS	LOCKERS
LP	LAMINATED PLASTIC
LT	LIGHT(ING)
LWTG	LIGHTWEIGHT
LVR	LOUVER

### M

M	METER
MAINT	MAINTENANCE
MATL	MATERIAL
MAX	MAXIMUM
MBO	MARKER BOARD
MECH	MECHANICAL
MED	MEDIUM
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLDG	MULDING
MM	MILLIMETER
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
MULL	MULLION
MWK	MILLWORK
MW	MICROWAVE

### N

N	NORTH
NA	NOT APPLICABLE
NAT	NATURAL
NIC	NOT IN CONTRACT
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE

### O

O	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCl	OWNER FURNISHED, CONTRACTOR INSTALLED
OFCl	OWNER FURNISHED & OWNER INSTALLED
OFCl	OWNER FURNISHED & OWNER INSTALLED
OH	OVERHEAD
OPEN	OPENING
OPP	OPPOSITE

### P

PC(S)	PIECE(S)
PC CONC	PRECAST CONCRETE
PED	PEDESTAL
PERF	PERFORATED
PERIM	PERIMETER
PL	PROPERTY LINE
PLBG	PLUMBING
PLT	PLATE
PLY	PLYWOOD
PM	PATCH AND MATCH
PNL	PANEL
PORC T	PORCELAIN TILE

### P (CONTINUED)

PP	PUSH PLATE
PREP	PREPARATION
PRTN	PARTITION
PT	POINT
PT DISP	PAPER TOWEL DISPENSER
PTD	PAINTED
PUB	PUBLIC
PVC	POLYVINYL CHLORIDE
PVG	PAVING
PVMT	PAVEMENT
PWC	PLASTIC WALL COVERING

### Q

QT	QUARRY TILE
QTR	QUARTER
QTY	QUANTITY

### R

R	RISERS
RA	RETURN AIR
RAD	RADIUS
RCP	REFLECTED CEILING PLAN
RFD	ROOF DRAIN
REC	RECESSED
RECEPT	RECEPTACLE
RECT	RECTANGULAR
RECV	RECEIVING
REF	REFERENCE
REF	REFRIGERATOR
REINF	REINFORCING
REL	RELOCATED
REM	REMOVABLE
REQD	REQUIRED
RES	RESILIENT
RET	RETURN
REV	REVISION
RH	RIGHT HAND
RL	RAIN LEADER
RM	ROOM
RO	ROUGH OPENING
RUB	RUBBER

### S

S DISP	SOAP DISPENSER
SCHED	SCHEDULE
SCN	SCREEN
SD	STORM DRAIN
SECT	SECTION
SERV	SERVICE
SF	SQUARE FOOT (FEET)
SFT	STRUCTURAL GLAZED FACING TILE
SGL	SINGLE
SH	SHelf
SHLVG	SHELVING
SHT	SHEET
SHT V	SHEET VINYL
SHWR	SHOWER
SIM	SIMILAR
SN DISP	SANITARY NAPKIN DISPENSER
SN RECEPT	SANITARY NAPKIN RECEPTACLE
SPC	SPECIAL COATING
SPKR	SPEAKER
SQ	SQUARE
SS	STAINLESS STEEL
SSM	SOLID SURFACE MATERIAL
STA	STATION
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STG	SEATING
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENSION (SUSPENDED)
SW	SWITCH
SYS	SYSTEM

### T

T	TREAD
TEL	TELEPHONE
TERR	TERRAZZO
TG	TONGUE AND GROOVE
THK	THICK
THRESH	THRESHOLD
TK BD	TACKBOARD
TOC	TOP OF CONCRETE
TOC	TOP OF CURB
TOF	TOP OF FOOTING
TOI	TOILET
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TOW	TOP OF WALL
TP	TOILET PARTITION
TP DISP	TOILET PAPER DISPENSER
TV	TELEVISION
TYP	TYPICAL

### U

UC	UNDERCOUNTER
UG	UNDERGROUND
UNF	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UTIL	UTILITY

### V

V	VACUUM
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VOL	VOLUME
VT	VINYL TILE
VW	VIEW WINDOW
VWC	VINYL WALL COVERING

### W

W	WEST
WP	WORKING POINT
W	WITH
WC	WHEELCHAIR
W/O	WITHOUT
WD	WOOD
WH	WALL HENG
WBD	WHITEBOARD
WMCT	WIRE MESH CABLE TRAY
WO	WINDOW OPENING
WOM	WALK OFF MAT
WP	WATERPROOFING
WS	WEATHER STRIP
WSCOT	WAINSCOT
WWF	WELDED WIRE FABRIC

### Z

## DRAWING INDEX

### GENERAL

G0	COVER
G001	DRAWING INDEX, ABBREVIATIONS, AND GENERAL NOTES
LS100	LIFE SAFETY PLAN & CODE SEARCH

### CIVIL

C1	EXISTING CONDITIONS & DEMOLITION PLAN
C2	EROSION PREVENTION & SEDIMENT CONTROL PLAN
C3	SITE PLAN
C4	GRADING & DRAINAGE PLAN
C5	SANITARY SEWER & UTILITY PLAN
C6	DETAILS

### ARCHITECTURAL

A200	FLOOR PLAN
A210	ROOF PLAN
A300	ENLARGED PLANS
A400	REFLECTED CEILING PLAN
A500	BUILDING ELEVATIONS
A501	BUILDING ELEVATIONS
A600	BUILDING SECTIONS
A601	BUILDING SECTIONS
A602	EXTERIOR WALL SECTIONS
A610	EXTERIOR PLAN DETAILS
A620	EXTERIOR DETAILS
A621	EXTERIOR DETAILS
A700	DOOR SCHEDULE AND DETAILS
A702	ALUMINUM STOREFRONT / INTERIOR H.M. ELEVATIONS
A710	PARTITION TYPES & INTERIOR DETAILS
A800	CASEWORK DETAILS
A801	CASEWORK DETAILS
A810	INTERIOR ELEVATIONS

### INTERIOR DESIGN

ID100	INTERIOR FINISH INDEX AND SCHEDULE
ID200.F	FLOOR FINISH PLAN
ID200.W	WALL FINISH PLAN

### STRUCTURAL

S001	GENERAL NOTES
S002	SPECIAL INSPECTION NOTES
S100	FOUNDATION PLAN
S700	PEDESTAL DETAILS
S701	FOUNDATION SECTIONS

### MECHANICAL

M000	MECHANICAL GENERAL NOTES, LEGEND, SCHEDULES, AND DETAILS
M200	MECHANICAL FLOOR PLAN - L1
M201	MECHANICAL PIPING PLAN - L1
M301	MECHANICAL OVERALL 3D PLAN
M401	MECHANICAL DETAILS

### PLUMBING

P000	PLUMBING GENERAL NOTES, LEGEND, SCHEDULES, AND DETAILS
P200	PLUMBING UNDERGROUND FLOOR PLAN
P201	PLUMBING ABOVE GROUND FLOOR PLAN
P301	PLUMBING ISOMETRIC PLAN
P401	PLUMBING DETAILS

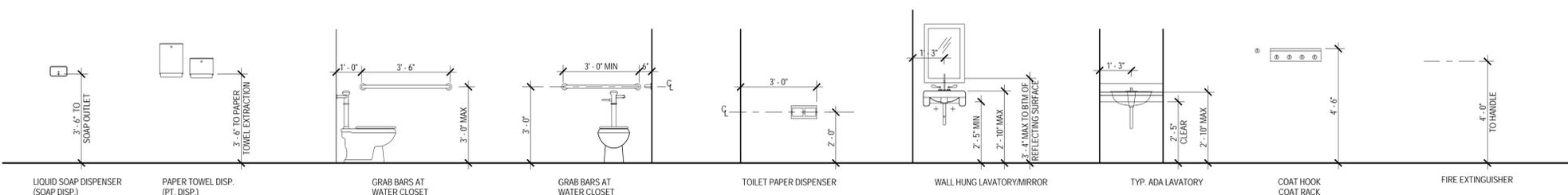
### ELECTRICAL

E000	ELECTRICAL GENERAL NOTES, LEGENDS, & DETAILS
E100	ELECTRICAL SITE PLAN
E200	ELECTRICAL POWER FLOOR PLAN
E201	ELECTRICAL LIGHTING FLOOR PLAN
E202	ELECTRICAL COMMUNICATIONS FLOOR PLAN
E300	ELECTRICAL FIXTURE SCHEDULE AND PANEL SCHEDULES
E401	ELECTRICAL LIGHTING CONTROLS

## GENERAL CONSTRUCTION NOTES

- WHERE PIPES, DUCTS AND PANEL BOXES OCCUR, PARTITIONS SHALL BE OF SUCH THICKNESS TO ACCOMMODATE PIPES AND DUCTS. SEE HVAC, PLUMBING AND ELECTRICAL DRAWINGS.
- ALL GYPSUM WALLBOARD ON CONCRETE OR MASONRY WALLS SHALL BE FURRED OUT A MINIMUM OF 7/8".

## STANDARD MOUNTING HEIGHTS



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MECHANICAL, PLUMBING, & ELECTRICAL



INNOVATIVE • ENGINEERING  
SERVICES, LLC

Mark Date Description

REVISIONS

CLIENT

SHELBY COUNTY SUPPORT SERVICES  
584 ADAMS  
MEMPHIS, TENNESSEE 38103

PROJECT NAME

FIRE FLEET  
MAINTENANCE  
FACILITY

Project No. 2015478  
Date Issued 02/19/2016  
Drawing Scale As indicated  
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DRAWING TITLE

DRAWING INDEX,  
ABBREVIATIONS, AND  
GENERAL NOTES

SEALS



SHEET ID

CONSTRUCTION  
DOCUMENTS

G001

OCCUPANCY AREAS			
Number	Name	Occupancy	Area
105	ACCOUNTANT'S OFFICE	B	194 SF
102	CORR	B	71 SF
104	ELECTRICAL/MECHANICAL/STORAGE	B	163 SF
103	MANAGER'S OFFICE	B	112 SF
118	MECH/ELEC	B	31 SF
114	PARTS COUNTER	B	108 SF
115	PARTS SHOP	B	967 SF
117	PLUMBING	B	30 SF
106B	STOR.	B	38 SF
107	TOILET	B	47 SF
116	TOILET	B	45 SF
106A	TOILET	B	52 SF
100	WAITING	B	185 SF
101	WORK ORDER OFFICE	B	264 SF
B			2308 SF
120	BAY 1	S-1	1013 SF
121	BAY 2	S-1	701 SF
122	BAY 3	S-1	657 SF
123	BAY 4	S-1	629 SF
124	BAY 5	S-1	629 SF
125	BAY 6 WELDING	S-1	629 SF
126	BIG BAY 7 (OIL)	S-1	1078 SF
127	BIG BAY 8 (GANTRY)	S-1	1067 SF
128	BIG BAY 9	S-1	1071 SF
111	CONFERENCE/ BREAK ROOM	S-1	208 SF
119	CORR	S-1	69 SF
110	LIBRARY	S-1	114 SF
112	M-TOILET	S-1	43 SF
113	W-TOILET	S-1	44 SF
S-1			7953 SF
132	DROP OFF	UNDER ROOF PROJECTION	1116 SF
133	MECH. ENTRY	UNDER ROOF PROJECTION	130 SF
134	OUTDOOR BREAK AREA	UNDER ROOF PROJECTION	64 SF
135	PARTS ENTRY	UNDER ROOF PROJECTION	64 SF
136	PARTS LOADING	UNDER ROOF PROJECTION	759 SF
131	SOUTH OVERHANG	UNDER ROOF PROJECTION	2976 SF
130	TIRE STORAGE	UNDER ROOF PROJECTION	459 SF
129	WASHING/ FLEX BAY (EXTERIOR)	UNDER ROOF PROJECTION	842 SF
	UNDER ROOF PROJECTION		6411 SF
	Grand total:		16672 SF

**CODE SEARCH:**

1. Project: FIRE FLEET MAINTENANCE FACILITY  
 2. Project Number: 2015478  
 3. Location & Address: 6200 HALEY SEGICH ROAD, MEMPHIS, TN 38134  
 4. Owner Contacts: Tom Needham  
 5. Code Review By: Nicholas Gulic  
 6. Date of Review: December 11, 2015  
 7. Code Authorities:  
 Building Department: Memphis and Shelby County Office of Construction Code Enforcement  
 Contact: Ted Risley  
 Address: 6445 Mullins Station Road Memphis, TN 38134  
 Telephone: 901 222-8359  
 A. Building Codes In Force  
 Shelby County, TN:  
 Architectural: 2009 International Building Code with Local Amendments  
 2003 American National Standard ICC A 117.1, 2009 in conjunction with Chapter 11 of 2009 IBC  
 2009 International Gas Code with Local Amendments  
 2009 International Energy Conservation Code with Local Amendments  
 2009 ANSII 117.1 with Chapter 11 of 2009 IBC  
 Mechanical: 2009 International Mechanical Code with Local Amendments  
 Plumbing: 2009 International Plumbing Code with Local Amendments  
 Electrical: 2008 National Electric Code

B. Building Information  
 1. Occupancy Classification/Storage: S-1 (311.2) See SF total in OCCUPANCY AREAS table  
 Business B (304.2) See SF total in OCCUPANCY AREAS table  
 No separation required between occupancies (508.4)  
 2. Construction Type: IBC (Table 601)  
 a. Type: III - B  
 b. Allowable building area per floor: 17,500 SF (Table 503)  
 c. Actual building area: 10,297 SF All area within surrounding exterior walls  
 6,411 SF All area within horizontal projection of the roof  
 16,708 SF TOTAL Building Area  
 d. Allowable building height/stories: 55/2 Stories (Table 503)  
 e. Actual building height/stories: 36/1 Story

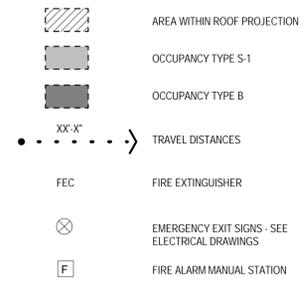
3. Fire Resistance and Protection Requirements IBC (table 601)  
 a. Exterior walls: Less than 30 feet fire separation: 1 hour (Not Required)  
 30 feet or greater separation: 0 hour  
 b. Exits: Exit Corridors - 0 hr (1018.1, Exception 4.)  
 c. Structural Frame (columns, girders, trusses) IBC (table 601): 0 hour  
 d. Interior Nonbearing Walls: IBC (table 601): 0 hour  
 e. Floor construction (including support beams): IBC (table 601): 0 hour  
 f. Roof construction (including support beams): IBC (table 601): 0 hour  
 g. Interiors Finishes:  
 1) Wall and Ceiling (IBC 803.9):  
 a) Exit Enclosures & Passageways: Class A @ Occupancy Type B  
 Class B @ Occupancy Type S-1  
 b) Corridors: Class B  
 c) Rooms & Enclosed Spaces: Class C  
 2) Floors (IBC 804): Interior floor finishes and floor covering materials in exit enclosures, exit passageways and corridors shall not be less than Class II in Groups B and S.  
 h. Wood trim classification: Class C Flame Spread & Smoke Developed  
 1) Max. Area: Combustible trim shall not exceed 10% of aggregate wall or ceiling area.

5. Fire Protection Systems:  
 a. Portable Fire Extinguisher (IBC 906, NFPA 10):  
 1) Travel Distance - 75 feet (NFPA 10)  
 2) Minimum Rating: 2-A; except at cooking media use class K (NFPA 10).  
 b. Automatic Sprinkler Systems (IBC 903)  
 1) Not Required - Area of Repair Garage less than 12,000 SF required for sprinkler system per IBC 903.2.9.1.  
 6. Means of Egress Requirements:  
 a. Building Data:  
 1) Area: 16,708 SF  
 b. Occupant Load (IBC 1004.1.1)  
 1) Floor Area/Occupant: 17,452/200 = 87 occupants  
 2) Minimum exits per floor based on Occupant Load = 1 (IBC 1015.1)  
 c. Travel Distance (IBC Table 1015.1):  
 1) From furthest point to exit: 200 ft, nonsprinklered  
 2) Maximum Common Path of Egress Travel (2 exit doors Required after exceeding): 75 ft

6. Means of Egress Requirements (Continued):  
 d. Maximum dead end corridor: (IBC 1018.4) 20 ft.  
 e. Exit access corridors fire rating (IBC 1011.1): 1 hour w/o sprinkler, 0 hour with sprinkler  
 f. Minimum corridor width (IBC 1018.2): 36 inches  
 g. Minimum ceiling height (IBC 1003.2):  
 1) 7 ft 6 inches in occupied spaces.  
 2) Exception: 7 feet in bathrooms, toilet rooms, kitchens, storage rooms and laundry rooms.  
 h. Exit capacity IBC & NFPA:  
 1) Stairways: 0.4 in. per occupant no sprinklers  
 2) Other Components: 0.2 in. per occupant IBC 1005.1:  
 1) Stairways: 0.3 in. per occupant  
 2) Other Components: 0.2 in. per occupant

7. Doors  
 a. Fire Ratings (IBC 715.4):  
 1. Fire Barriers: NA  
 2. Fire Partitions: NA  
 b. Minimum clear width of exit doors  
 1) (IBC 1008.1.1): 32 inches  
 7. Required Plumbing Fixtures (IBC 2902.1)  
 a. Watercloset: 1  
 b. Lavatories: 1  
 c. Drinking Fountain: 1  
 d. Service Sink: 1  
 8. Energy Requirements  
 a. Climate Zone 3  
 b. Building Envelope Requirements (table 502.2(1)):  
 1. Roof: Metal Building with R-5 Thermal Block: R-13 + R-13 = R-26  
 2. Walls, above grade: Metal Building: R-19  
 3. Opaque Doors:  
 a. Swinging: U-0.70 (R-1.43)  
 b. Roll-up or Sliding: U-1.45 (R-0.69)  
 4. Fenestration is 31.9% of wall area  
 9. Fuel Oil Storage (IBC 307.1, IFC 603.3.2.1)  
 a. Quantity limits: One or more fuel oil storage tanks containing Class II or III combustible liquid shall be permitted in a building. The aggregate capacity of all such tanks shall not exceed 660 gallons.  
 Motor Oil (Class III) stored in building:  
 1. 100 gallon oil holding tank (Exterior)  
 2. (3) 56 gallon oil holding tanks = 168 gallons (between Big Bay 7 and 8)  
 3. (3) 55 gallon oil drums = 165 gallons  
 433 total gallons of oil stored on site.

**LIFE SAFETY LEGEND:**



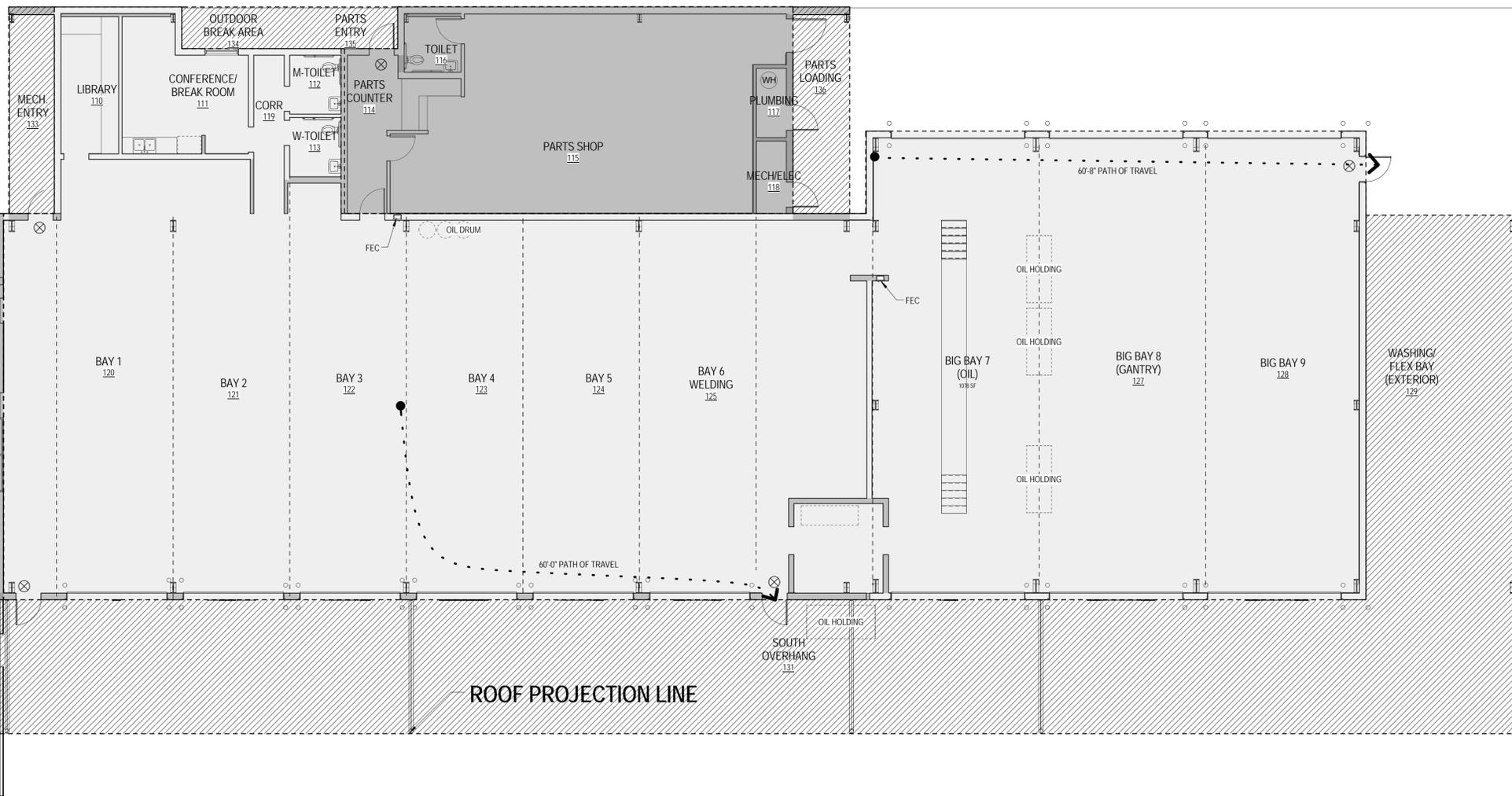
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**IES**  
 INNOVATIVE ENGINEERING SERVICES, LLC

Mark Date Description  
 REVISIONS  
 CLIENT  
 SHELBY COUNTY SUPPORT SERVICES  
 584 ADAMS  
 MEMPHIS, TENNESSEE 38103  
 PROJECT NAME  
**FIRE FLEET MAINTENANCE FACILITY**  
 Project No. 2015478  
 Date Issued: 02/19/2016  
 Drawing Scale: As indicated  
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DRAWING TITLE  
**LIFE SAFETY PLAN & CODE SEARCH**  
 SEALS  
  
 SHEET ID  
**CONSTRUCTION DOCUMENTS**

**LS100**



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

2/19/2016 10:19:31 AM C:\Users\klaywood\Documents\2015478 Shelby County Fleet Services Building.klaywood.rvt

Table with 3 columns: Mark, Date, Description

CLIENT

SHELBY COUNTY SUPPORT SERVICES  
584 ADAMS  
MEMPHIS, TENNESSEE 38103

PROJECT NAME

Fire Fleet Maintenance Facility

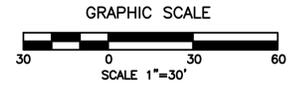
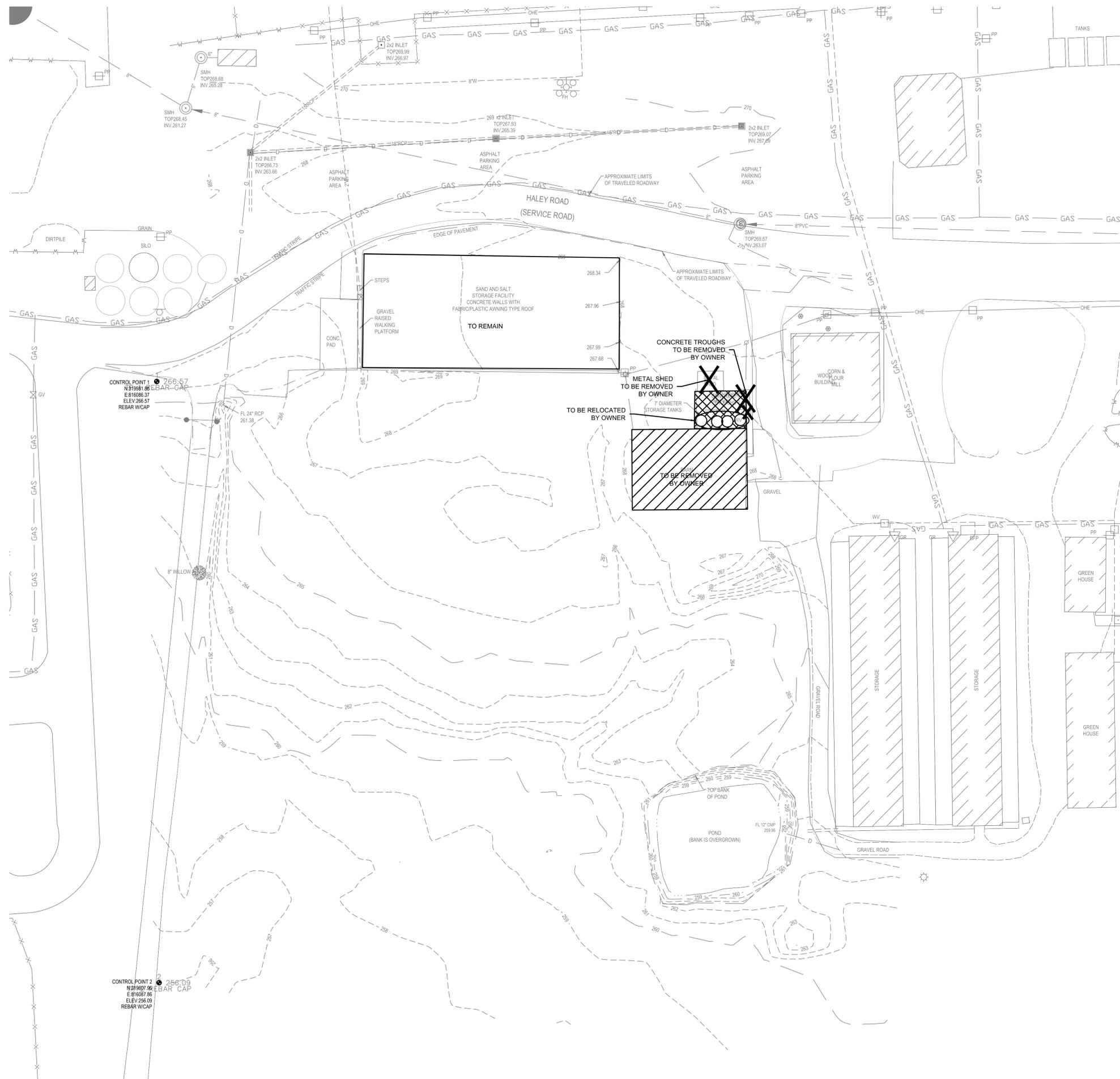
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DRAWING TITLE  
EXISTING CONDITIONS & DEMOLITION PLAN



SHEET ID CONSTRUCTION DOCUMENTS

C1



LEGEND

- 450 GROUND CONTOUR
CENTER LINE
WOOD FENCE
METAL FENCE
GAS LINE
SEWER LINE
OVERHEAD ELECTRIC
UNDERGROUND ELECTRIC
UNDERGROUND TELEPHONE
POWERPOLE
LIGHTPOLE
LAMP POST/LIGHT
SIGNAL POLE
ELECTRICAL MANHOLE
ELECTRICAL METER
TELEPHONE PEDESTAL
GAS METER
GAS VALVE
COMMUNICATIONS MANHOLE
ELECTRIC CONDUIT
BOLLARD
STORM DRAIN MAN-HOLE
SANITARY SEWER MANHOLE
SANITARY SEWER CLEAN-OUT
FIRE HYDRANT
WATER METER
WATER VALVE
POST INDICATOR VALVE
IRRIGATION CONTROL VALVE
ROOF DRAIN
ELECTRIC BOX
EXISTING OBJECT TO BE REMOVED BY OWNER
EXISTING CONCRETE TO BE REMOVED BY OWNER
EXISTING BUILDING TO BE REMOVED BY OWNER

GENERAL NOTES:

- 1. REFER TO SHEET C2 - EROSION CONTROL PLAN, FOR MINIMAL EROSION CONTROL MEASURES AND REQUIREMENTS.
2. THE CONTRACTOR SHALL PROTECT ANY EXISTING STRUCTURES, PAVEMENTS, CURBS, SIDEWALKS, FENCES OR OTHER ELEMENTS DESIGNATED TO REMAIN. ANY EXISTING ELEMENT NOT INDICATED TO BE REMOVED, WHICH IS DAMAGED DURING THE COURSE OF DEMOLITION OR CONSTRUCTION, SHALL BE RESTORED TO ITS ORIGINAL CONDITION OR REPLACED IN KIND, AT NO ADDITIONAL COST TO THE OWNER.
3. THE CONTRACTOR SHALL MAINTAIN FIRE DEPARTMENT ACCESS TO ALL FIRE HYDRANTS OR PROVIDE TEMPORARY HYDRANTS WHERE ACCESS IS LOCKED.
4. THE CONTRACTOR AT NO TIME SHALL ENCROACH UPON OR CAUSE DISRUPTIONS TO TRAFFIC FLOW ON ADJACENT STREETS RIGHT-OF-WAY WITHOUT SECURING THE PROPER PERMITS PRIOR TO COMMENCING DEMOLITION OR CONSTRUCTION OPERATIONS.
5. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL SAFETY BARRIERS, TEMPORARY SIDEWALKS AND PROTECTION DEVICES TO COMPLY WITH CITY, COUNTY, STATE OR FEDERAL REQUIREMENTS THROUGHOUT THE ENTIRE PROJECT CONSTRUCTION PERIOD.
6. PROTECT ALL EXISTING BENCH MARKS, IRON PINS, SURVEY CONTROL POINTS OR OTHER MONUMENTS TO REMAIN.
7. TENNESSEE STATE LAW, THE UNDERGROUND FACILITIES DAMAGE PREVENTION ACT, REQUIRES ADVANCE NOTIFICATION THROUGH THE TENNESSEE ONE-CALL SYSTEM CENTER AT LEAST THREE WORKING DAYS PRIOR TO EXCAVATING WITH MECHANIZED EQUIPMENT OR EXPLOSIVES. THE ONE-CALL SYSTEM PHONE NUMBER IS 1-800-351-1111. NOT ALL UTILITY COMPANIES ARE MEMBERS OF THE TENNESSEE ONE-CALL SYSTEM, THEREFORE, THE CONTRACTOR IS ADVISED TO CONTACT ALL NON-MEMBER UTILITY COMPANIES AS WELL AS THE TENNESSEE ONE-CALL SYSTEM.
8. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES INTENDED TO REMAIN IN SERVICE. ANY EXISTING UTILITY OR UNDERGROUND STRUCTURE TO REMAIN, WHETHER SHOWN ON THE PLANS OR NOT, WHICH IS DAMAGED BY THE CONTRACTOR'S OPERATIONS, SHALL BE REPAIRED OR REPLACED IN KIND AT NO ADDITIONAL COST TO THE OWNER. THE ACCIDENTAL DISCONNECTION OF ANY UTILITY SERVICE SHALL BE IMMEDIATELY RESTORED AT NO ADDITIONAL COST TO THE OWNER.
9. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO DETERMINE WHAT MATERIALS SHALL BE RETAINED BY THE OWNER. ANY MATERIALS THAT WILL NOT REMAIN OWNERS PROPERTY SHALL BECOME CONTRACTOR'S PROPERTY & SHALL BE REMOVED FROM THE SITE.

FLOOD ZONE X - OUTSIDE 500 YEAR FLOOD PLAN

THESE PREMISES ARE NOT LOCATED WITHIN A "SPECIAL FLOOD HAZARD AREA" AS DEFINED BY THE NATIONAL FLOOD PROTECTION ACT AS SHOWN ON FIRM MAP 47157C0313G, DATED FEBRUARY 6, 2013

GENERAL SURVEY NOTES:

THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON ABOVE GROUND STRUCTURES AND RECORD DRAWINGS PROVIDED THE SURVEYOR. LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/STRUCTURES. BEFORE EXCAVATIONS ARE BEGUN, THE TENNESSEE ONE-CALL SYSTEM (800)351-1111 SHOULD BE CONTACTED FOR VERIFICATION OF ALL UTILITY TYPES AND FOR FIELD LOCATIONS.

MEMPHIS LIGHT, GAS & WATER DIVISION WORK CONTROL CENTER 220 SOUTH MAIN STREET MEMPHIS, TN. 38103 901/528-4478
CITY OF MEMPHIS STREET DESIGN 125 NORTH MAIN MEMPHIS, TN. 38103 901/576-6925
AT&T ENGINEERING 901/791-3504
CITY OF MEMPHIS SEWER DESIGN 125 NORTH MAIN MEMPHIS, TN. 38103 901/576-6951

ENVIRONMENTAL AND SUBSURFACE CONDITIONS WERE NOT EXAMINED AS A PART OF THIS SURVEY. CONTOURS AND OTHER INFORMATION WERE DERIVED FROM RANDOM SHOTS TAKEN WITH A TOTAL STATION AND PRISM POLE. CONTOURS ARE PLOTTED AT 1' INTERVALS.

NO TITLE ABSTRACT WAS PROVIDED TO THE SURVEYOR TITLE RESEARCH WAS DONE BY THE SURVEYOR AND IS NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS.

BENCHMARK

BASIS OF ELEVATIONS NAVD 88
SEE CONTROL POINTS 1 AND 2 WEST OF SITE.

Mark	Date	Description
REVISIONS		

CLIENT

SHELBY COUNTY SUPPORT SERVICES  
584 ADAMS  
MEMPHIS, TENNESSEE 38103

PROJECT NAME

Fire Fleet Maintenance  
Facility

Project No. 2015478  
Date Issued 02/19/2016  
Drawing Scale 1" = 40'-0"  
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DRAWING TITLE

EROSION  
PREVENTION &  
SEDIMENT CONTROL  
PLAN

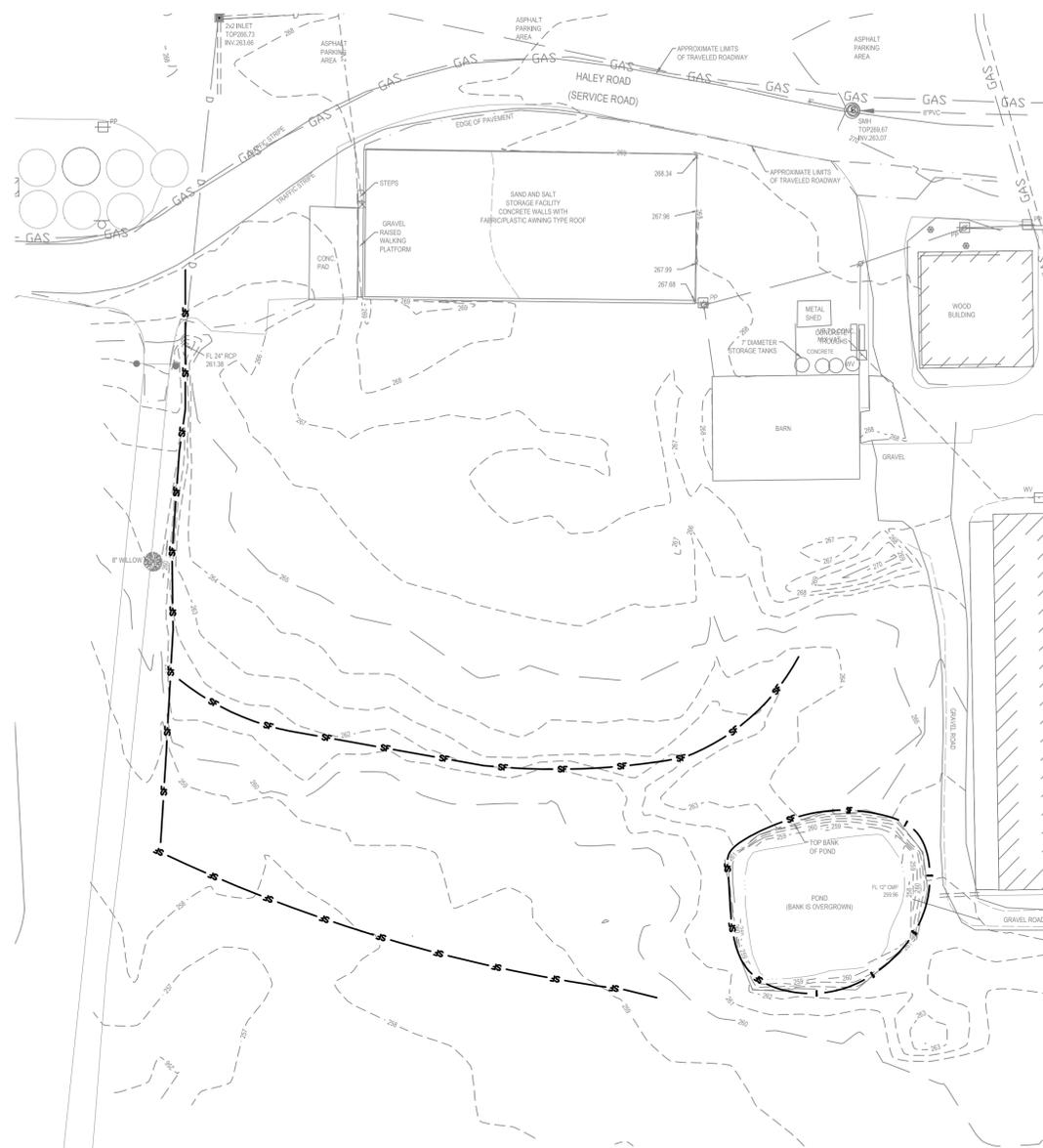
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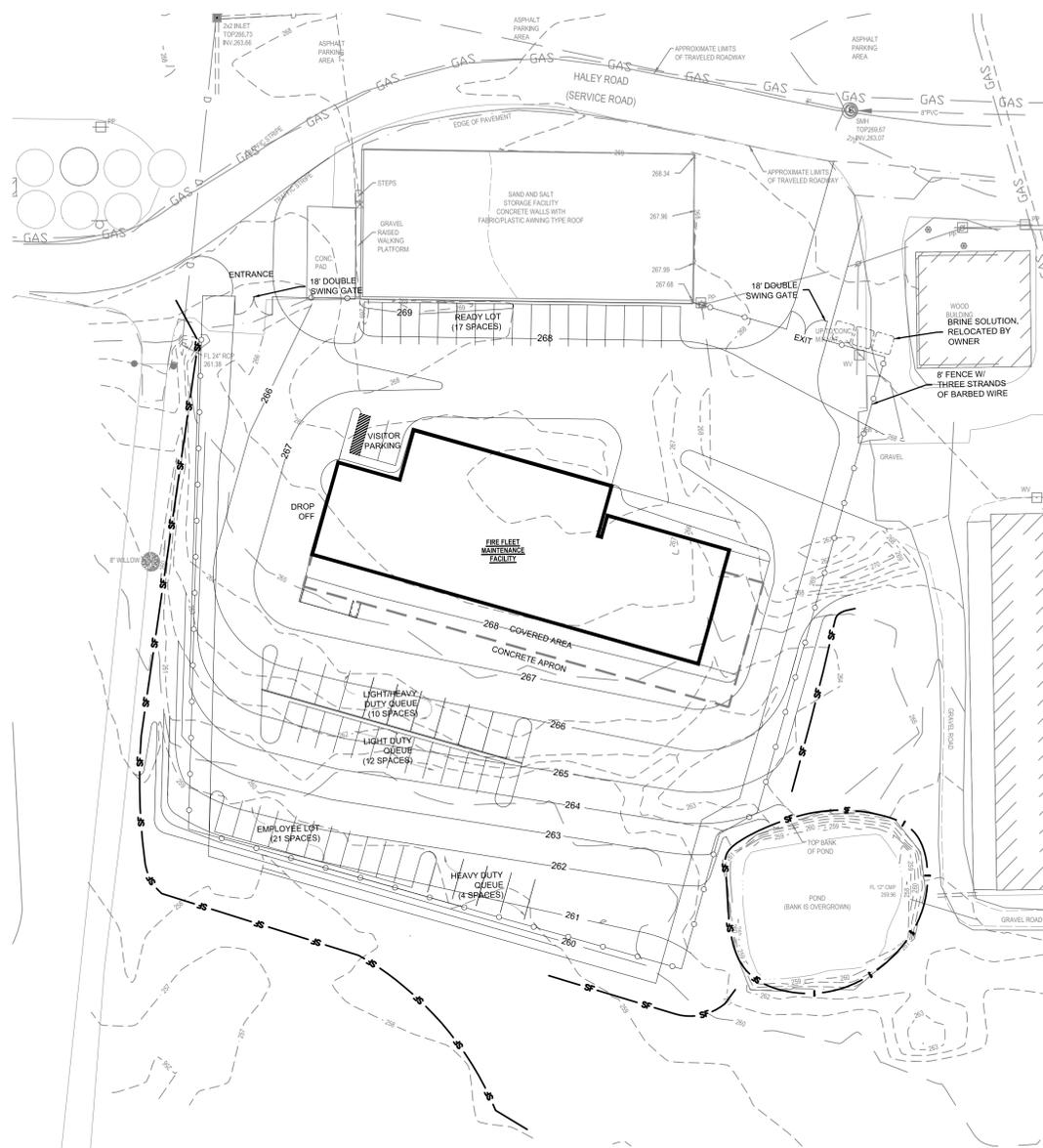
SHEET ID

CONSTRUCTION  
DOCUMENTS

C2



PHASE 1  
1"=40'

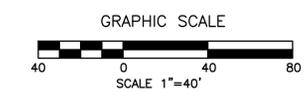


PHASE 2  
1"=40'

**EROSION CONTROL NOTES:**

1. THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN IS TO SERVE AS A GUIDE ONLY AND IS NOT INTENDED TO SUPERSEDE OR RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY TOWARD COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL EROSION CONTROL REGULATIONS, OR RESPONSIBILITY OF PROPER INSTALLATION AND MAINTENANCE OF CONTROL DEVICES IN ACCORDANCE WITH THE CURRENT APPLICABLE GUIDELINES. OTHER MEASURES OR DEVICES IN ADDITION TO THOSE SHOWN ON THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN MAY BE REQUIRED DURING VARIOUS PHASES OF CONSTRUCTION.
2. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND MADE FUNCTIONAL PRIOR TO INCEPTION OF ANY UPSLOPE LAND DISTURBING ACTIVITY, AND SHALL BE PROPERLY MAINTAINED AND OPERATED UNTIL FINAL STABILIZATION IS ACHIEVED.
3. CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL PUBLIC ROADS CLEAR OF MUD AND DEBRIS DURING CONSTRUCTION.
4. ALL EROSION PREVENTION AND SEDIMENT CONTROL WORK SHALL BE PERFORMED IN SUCH A MANNER THAT ADJACENT PROPERTIES OR FACILITIES ARE NOT DAMAGED OR ADVERSELY AFFECTED.
5. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION PREVENTION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC).
6. A COPY OF THE APPROVED EROSION PREVENTION AND SEDIMENT CONTROL PLAN, AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
7. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY TDEC AND/OR THE CITY OF MEMPHIS.
8. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
9. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES AT A MINIMUM OF TWICE WEEKLY AT LEAST 72 HOURS BETWEEN INSPECTIONS. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
10. PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN TEN (10) CALENDAR DAYS PRIOR TO GRADING OR EARTH MOVING.
11. CONSTRUCTION SHALL BE SEQUENCED TO MINIMIZE THE EXPOSURE TIME OF CLEARED SURFACE AREAS.
12. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) CALENDAR DAYS TO DENUDED (BARE) AREAS THAT HAVE REACHED FINAL GRADE.
13. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) CALENDAR DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN FIFTEEN (15) CALENDAR DAYS.
14. ALL SURFACE WATER FLOWING THROUGH THE CONSTRUCTION AREA SHALL BE DIVERTED USING BERMS, CHANNELS, OR SEDIMENT TRAPS AS NECESSARY PRIOR TO EXITING THE SITE.

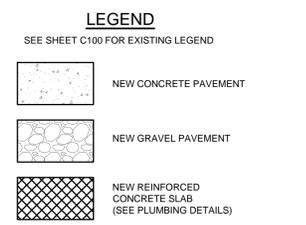
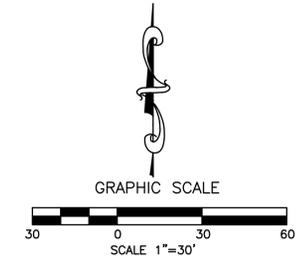
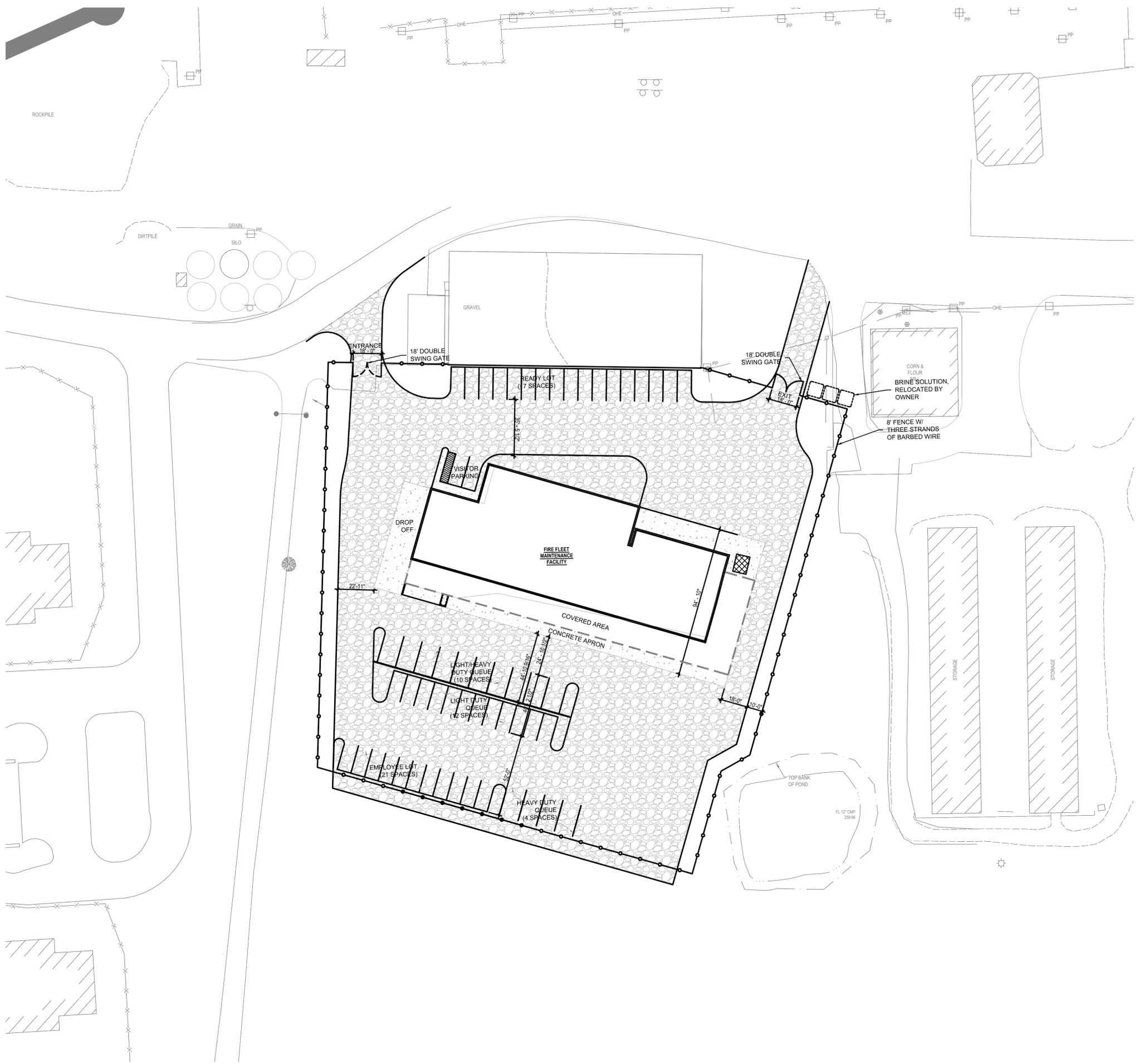
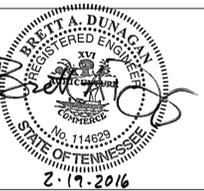
15. MUDDY WATER FROM EXCAVATION AND WORK AREAS SHALL BE HELD IN SETTLING BASINS OR TREATED BY FILTRATION PRIOR TO DISCHARGING OFF-SITE.
16. ALL SOIL AND SEDIMENT SHALL BE STOCKPILED IN A SINGLE LOCATION UPSTREAM OF THE SEDIMENT BASINS OR FILTERS, AND LEFT IN A NON-COMPACTED POSITIVELY DRAINED STATE. SILT FENCING SHALL BE PLACED AND MAINTAINED AT THE BASE OF ALL SOIL AND SEDIMENT STOCKPILES. ALL SOIL AND SEDIMENT STOCKPILES SHALL BE STABILIZED IF THEY WILL REMAIN DORMANT FOR LONGER THAN FIFTEEN (15) DAYS.
17. EXISTING SURFACE AND SUB-SURFACE DRAINAGE SYSTEMS SHALL MAINTAIN POSITIVE EXTRA SPACE FLOW AT ALL TIMES DURING CONSTRUCTION OPERATIONS.
18. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.
19. ALL STATE NPDES PERMITS MUST BE OBTAINED BEFORE ANY LAND IS DISTURBED.



**LEGEND**  
SEE SHEET C100 FOR EXISTING LEGEND  
— SF — SILT FENCE

FLOOD ZONE X - OUTSIDE 500 YEAR FLOOD PLAIN

THESE PREMISES ARE NOT LOCATED WITHIN A "SPECIAL FLOOD HAZARD AREA" AS DEFINED BY THE NATIONAL FLOOD PROTECTION ACT AS SHOWN ON FIRM MAP 47157C0313G, DATED FEBRUARY 6, 2013



**CONSTRUCTION NOTES:**

- CONTRACTOR SHALL ENSURE UNINTERRUPTED SEWER SERVICE ON EXISTING SEWER AND SERVICE CONNECTIONS BY PROVIDING AMPLE TEMPORARY WASTEWATER PUMPING AND/OR BYPASSING.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.
- CONTRACTOR SHALL NOTIFY THE CITY OF MEMPHIS CONSTRUCTION INSPECTION OFFICE A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY EXISTING DATA AND REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ENGINEER.
- THE CITY OF MEMPHIS SHALL HAVE INGRESS/EGRESS RIGHTS TO USE PRIVATE DRIVES AND YARDS FOR THE PURPOSE OF MAINTAINING ALL PUBLIC SEWER LINES AND SHALL BEAR NO RESPONSIBILITY FOR THE MAINTENANCE OF SAID PRIVATE DRIVES AND YARDS.
- CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING WITH THE CITY OF MEMPHIS AND SHELBY COUNTY TO ENSURE PROPER PERMITS HAVE BEEN FILED TO PERFORM WORK AND SUBMIT ALL REQUIRED FEES AND PAYMENTS.
- PAVEMENTS ARE TO BE PLACED ON SUITABLE MATERIALS. SUITABLE SUBGRADE MATERIALS FOR PAVEMENTS ARE DEFINED AS EITHER NEWLY COMPACTED STRUCTURAL FILL OR STABLE, IN SITU SOIL. THE PAVEMENT SUBGRADE SHOULD BE PREPARED AS RECOMMENDED IN THE SITE GRADING SECTION OF THE SUBSURFACE EXPLORATION REPORT. ONCE THE SUBGRADE IS PREPARED, IT SHOULD BE PROMPTLY PAVED TO PROTECT IT FROM THE WEATHER, AS THE NATURALLY OCCURRING SOILS OF THE AREA ARE SUSCEPTIBLE TO CHANGES IN MOISTURE CONTENT, WHICH MAY NECESSITATE SOIL IMPROVEMENT IN SOME CASES. DEPENDING ON THE TIME OF CONSTRUCTION, THE SUBGRADE SHOULD BE PROOF-ROLLED WITH A FULLY LOADED DUMP TRUCK AND ANY UNSTABLE SOILS THAT DEVELOP SHOULD BE REPLACED WITH COMPACTED FILL.

**PARKING NOTE:**

ALL PARKING LOT STRIPING IS REPRESENTATIVE ONLY AND IS INTENDED TO SHOW POSSIBLE PARKING CONFIGURATIONS, TRAFFIC FLOW PATTERNS AND NUMBER OF APPROXIMATE VEHICLE SPACES. STRIPING WILL NOT BE REQUIRED ON THE GRAVEL PAVEMENT.

**FLOOD ZONE X - OUTSIDE 500 YEAR FLOOD PLAIN**

THESE PREMISES ARE NOT LOCATED WITHIN A "SPECIAL FLOOD HAZARD AREA" AS DEFINED BY THE NATIONAL FLOOD PROTECTION ACT AS SHOWN ON FIRM MAP 47157C0313G, DATED FEBRUARY 6, 2013

Mark	Date	Description
REVISIONS		

CLIENT

SHELBY COUNTY SUPPORT SERVICES  
584 ADAMS  
MEMPHIS, TENNESSEE 38103

PROJECT NAME  
Fire Fleet Maintenance Facility

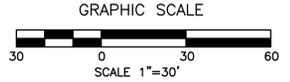
Project No. 2015478  
Date Issued 02/19/2016  
Drawing Scale 1" = 30'-0"  
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DRAWING TITLE  
GRADING & DRAINAGE PLAN



SHEET ID CONSTRUCTION DOCUMENTS

C4

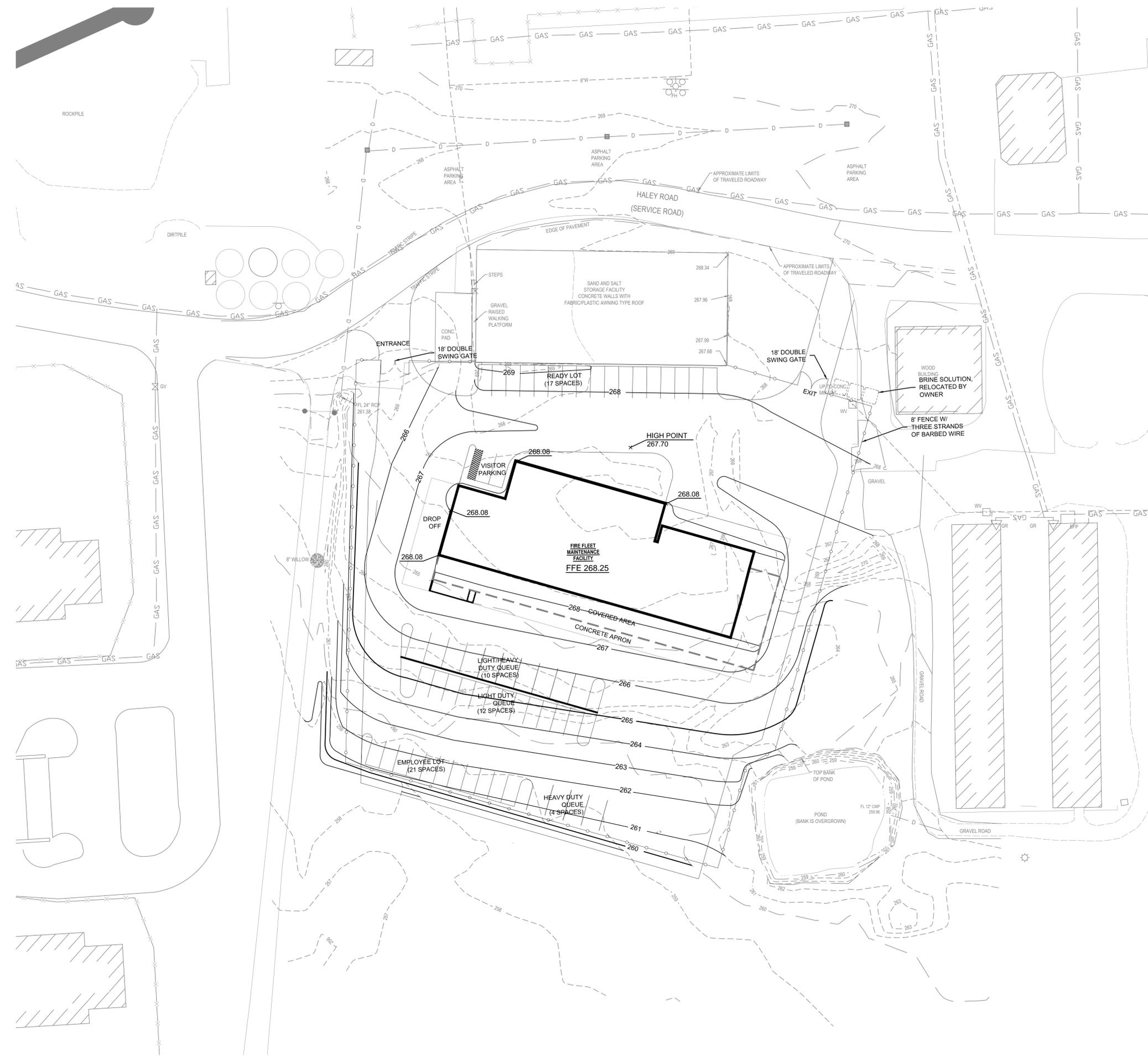


LEGEND

SEE SHEET C100 FOR EXISTING LEGEND

GRADING & DRAINAGE NOTES:

1. INFORMATION ON THE EXISTING DRAINAGE SYSTEM SHOWN HEREON IS FROM AS-BUILT RECORD DRAWINGS. CONTRACTOR TO FIELD VERIFY.
2. ALL GRADING AND DRAINAGE WORK SHALL BE PERFORMED IN SUCH A MANNER THAT ADJACENT FACILITIES ARE NOT DAMAGED OR ADVERSELY AFFECTED.
3. ALL EARTHWORK SHALL BE PERFORMED PER THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT FOR THIS PROJECT.
4. CLEAR AND GRUB ALL NATURAL GRADE AREAS TO RECEIVE FILL.
5. EXISTING DRAINAGE SYSTEMS (SURFACE AND SUBSURFACE) SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES DURING CONSTRUCTION OPERATIONS.
6. EXCAVATION SHALL BE CARRIED TO THE CONTOURS AND DIMENSIONS INDICATED OR NECESSARY. EXCAVATIONS SHALL BE KEPT FREE FROM WATER WHILE CONSTRUCTION THEREIN IS IN PROGRESS.
7. UPON GRADING COMPLETION, CONTRACTOR SHALL DISTRIBUTE SUFFICIENT TEMPORARY SEEDINGS TO PROVIDE ADEQUATE GROUND COVER IN AREAS NOT DESIGNATED FOR PERMANENT SEEDING THAT WILL REMAIN DORMANT FOR LONGER THAN 15 DAYS.
8. IN ALL AREAS OF CONSTRUCTION, THE TOPSOIL (PER GEOTECHNICAL REPORT) SHALL BE STRIPPED AND STORED IN LOCATION AS INDICATED BY OWNER FOR USE IN FINISH LANDSCAPING AREAS. INSTALL TEMPORARY EROSION CONTROL FENCE AROUND ALL STOCKPILES AND DISTURBED AREAS. AFTER CONSTRUCTION IS COMPLETED SPREAD TOPSOIL 6" DEEP OVER ALL DISTURBED AREAS. SPREAD EXCESS TOPSOIL IN AREA INDICATED BY OWNER. SEED OR SOD ALL DISTURBED AREAS.
9. UNLESS INDICATED OTHERWISE, ALL DISTURBED AREAS WHICH WILL NOT BE PAVED SHALL BE SEEDED, MULCHED & FERTILIZED IN ACCORDANCE WITH GROUP B OR BY SEED MIX PER TDOT STANDARDS WITH TDOT SPECIFICATIONS. ANY AREA LACKING ADEQUATE GRASS COVER SHALL BE CONSIDERED A DISTURBED AREA, WHETHER DUE TO EXPOSURE BY EROSION, GRADING, TRENCHING, PAVEMENT REMOVAL, OR OTHERWISE ANY OF THE CONTRACTOR'S OPERATIONS.
10. STOCKPILE OR SPREAD EXCESS CUT MATERIAL PER OWNERS DIRECTION - COVER WITH TOPSOIL AND SEED OR SOD.
11. ALL EMBANKMENTS WITH SLOPES 3:1 OR STEEPER, DRAINAGE DITCHES AND SWALES SHALL BE SODDED WITH LIVE GROWING GRASS SOD, IN ACCORDANCE WITH THE SPECIFICATIONS.
12. THE CONTRACTOR SHALL AT ALL TIMES EMPLOY ADEQUATE EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES TO PREVENT DAMAGE TO THE PROPERTY, ADJACENT PROPERTIES, PUBLIC RIGHTS-OF-WAY, AND DRAINAGE (PUBLIC OR PRIVATE) SYSTEMS, INCLUDING, BUT NOT LIMITED TO THOSE INDICATED ON THE PLANS. PROVIDE CATCH BASIN SEDIMENT TRAPS AT ALL EXISTING AND NEW INLETS WITHIN THE LIMITS OF CONSTRUCTION.
13. ALL EPSC DEVICES SHALL REMAIN IN PLACE UNTIL PROJECT COMPLETION OR UNTIL CONTRIBUTING DRAINAGE AREAS HAVE BEEN FULLY STABILIZED.

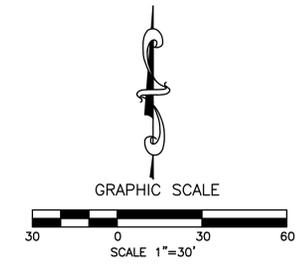
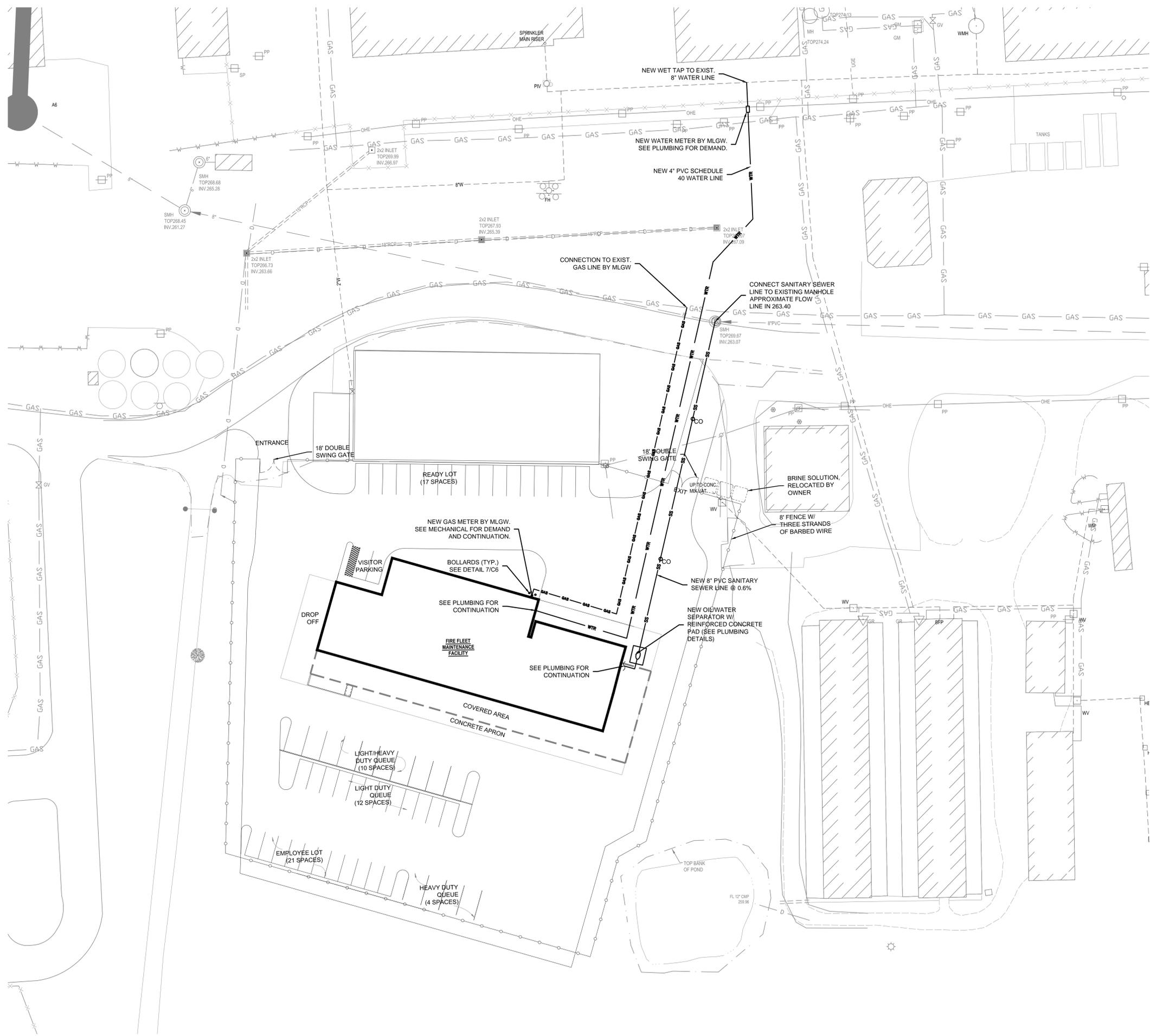


**BENCHMARK**  
BASIS OF ELEVATIONS NAVD 88  
CITY BM#274 - CENTRAL AVE. & McLEAN BLVD.  
CITY MONUMENT IS LOCATED ON THE NORTHWEST CORNER, ON 4"x4" CONCRETE POST BRASS/CAP/NIPPLE AT BACK OF SIDEWALK, 15' WEST OF END OR RADIUS ON CENTRAL AVENUE SIDE.

ELEV.296.14

FLOOD ZONE X - OUTSIDE 500 YEAR FLOOD PLAIN

THESE PREMISES ARE NOT LOCATED WITHIN A "SPECIAL FLOOD HAZARD AREA" AS DEFINED BY THE NATIONAL FLOOD PROTECTION ACT AS SHOWN ON FIRM MAP 47157C0313G, DATED FEBRUARY 6, 2013



**LEGEND**

SEE SHEET C100 FOR EXISTING LEGEND

	NEW CLEAN OUT
	NEW WATER VALVE
	NEW WATER METER
	NEW WATER LINE
	NEW SANITARY SEWER LINE
	NEW GAS LINE

**UTILITY STATEMENT:**

THE UNDERGROUND UTILITY INFORMATION SHOWN IS FROM VISIBLE FEATURES LOCATED FROM THE FIELD SURVEY AND/OR EXISTING RECORD INFORMATION ONLY, AND ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. UTILITIES MAY EXIST, THAT ARE NOT SHOWN NOR REFERENCED IN THIS AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR OF RECORD AND THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN NOR REFERENCED HEREON.

**UTILITY TRENCHING NOTE:**

CONTRACTOR SHALL REPAIR ANY UTILITY TRENCHING THROUGH EXISTING PAVEMENT. REFER TO "TYPICAL TRENCH REPAIR" DETAIL.

**brg3s**

**architects**

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CIVIL & STRUCTURAL

**SSR** Smith Sockman Reid, Inc.  
 Memphis, TN 38118  
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 Fax: 901.683.3990  
 Website: www.ssr-inc.com

MECHANICAL, PLUMBING, & ELECTRICAL

**IES**  
 INNOVATIVE • ENGINEERING  
 SERVICES, LLC

Mark	Date	Description
REVISIONS		
CLIENT		
<b>SHELBY COUNTY SUPPORT SERVICES</b>		
584 ADAMS		
MEMPHIS, TENNESSEE 38103		

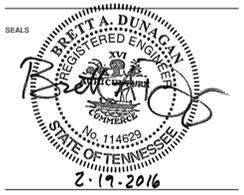
PROJECT NAME

**Fire Fleet Maintenance Facility**

Project No. 2015478  
 Date Issued: 02/19/2016  
 Drawing Scale: 1" = 30'-0"  
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DRAWING TITLE

**SANITARY SEWER & UTILITY PLAN**



**BENCHMARK**  
 BASIS OF ELEVATIONS NAVD 88  
 CITY BM#274 - CENTRAL AVE. & McLEAN BLVD.  
 CITY MONUMENT IS LOCATED ON THE NORTHWEST CORNER, ON 4"x4" CONCRETE POST BRASSCAP/NIPPLE AT BACK OF SIDEWALK, 15' WEST OF END OR RADIUS ON CENTRAL AVENUE SIDE.

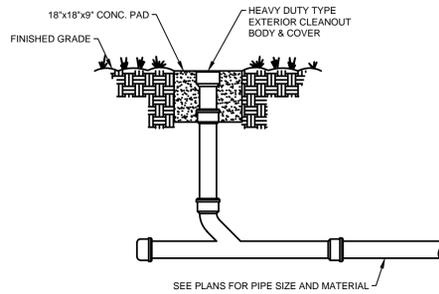
**FLOOD ZONE X - OUTSIDE 500 YEAR FLOOD PLAIN**

THESE PREMISES ARE NOT LOCATED WITHIN A "SPECIAL FLOOD HAZARD AREA" AS DEFINED BY THE NATIONAL FLOOD PROTECTION ACT AS SHOWN ON FIRM MAP 47157C0270F, DATED SEPTEMBER 28, 2007

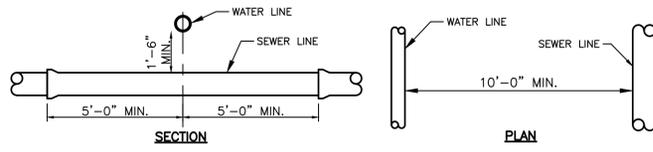
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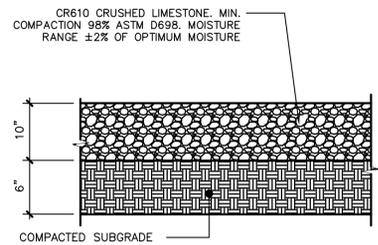
**CONSTRUCTION DOCUMENTS**



**1 CLEANOUT DETAIL**  
C6 NOT TO SCALE

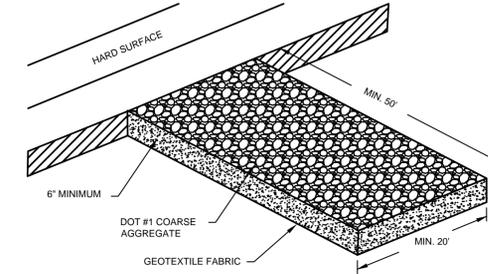


**2 SEPARATION OF WATER AND SEWER LINES**  
C6 NOT TO SCALE



**3 GRAVEL PAVEMENT DETAIL**  
C6 NOT TO SCALE

**DEFINITION** - A STONE STABILIZED PAD LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON A CONSTRUCTION SITE.  
**PURPOSE** - TO REDUCE THE AMOUNT OF MUD TRANSPORTED ONTO PUBLIC ROADS BY MOTOR VEHICLES OR RUNOFF.  
**CONDITIONS WHERE PRACTICE APPLIES** - WHEREVER TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE AND MOVE DIRECTLY ONTO A PAVED AREA.



**4 TEMPORARY STONE CONSTRUCTION EXIT**  
C6 NOT TO SCALE

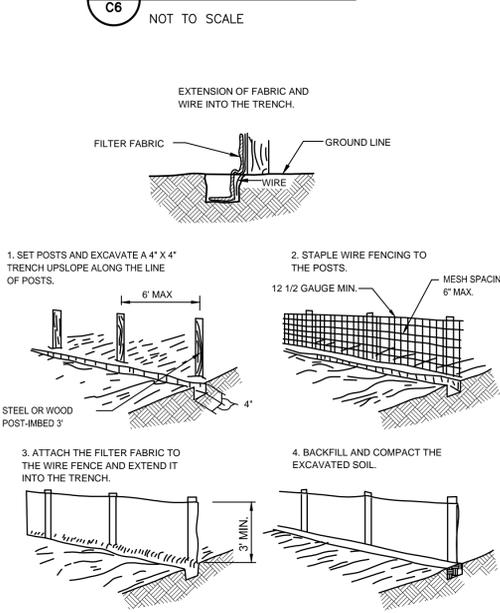
- AGGREGATE SIZE - NO. 57 STONE SHOULD BE USED.
- EXIT DIMENSIONS - THE AGGREGATE LAYER MUST BE AT LEAST 6 INCHES THICK. IT MUST EXTEND THE FULL WIDTH OF THE VEHICULAR INGRESS AND EGRESS AREA. THE LENGTH OF THE ENTRANCE MUST BE AT LEAST 50 FEET.
- WASHING - IF CONDITIONS ON THE SITE ARE SUCH THAT THE MAJORITY OF THE MUD IS NOT REMOVED BY THE VEHICLES TRAVELING OVER THE GRAVEL, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING A PAVED SURFACE. WASH WATER MUST BE CARRIED AWAY FROM THE ENTRANCE TO A SETTLING AREA TO REMOVE SEDIMENT. A WASH RACK MAY ALSO BE USED TO MAKE WASHING MORE CONVENIENT AND EFFECTIVE.
- LOCATION - THE EXIT SHOULD BE LOCATED TO PROVIDE FOR MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES.

**CONSTRUCTION SPECIFICATIONS:**

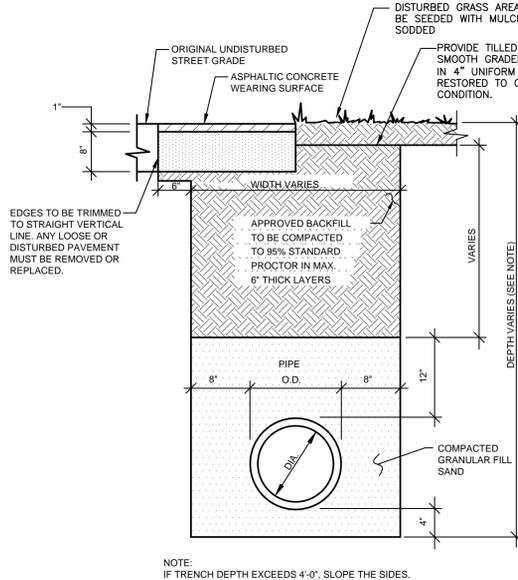
THE AREA OF THE EXIT SHOULD BE CLEARED OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL. THE GRAVEL SHALL BE PLACED TO THE SPECIFIED DIMENSIONS AND ON TOP OF A GEOTEXTILE LINER. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHOULD BE CONSTRUCTED ACCORDING TO SPECIFICATIONS. IF WASH RACKS ARE USED, THEY SHOULD BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

**MAINTENANCE:**

THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2 INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.



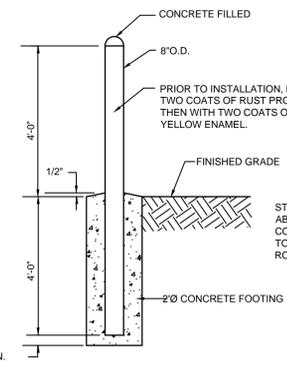
**5 SILT FENCE DETAIL**  
C6 NOT TO SCALE



**6 UTILITY PIPE BEDDING DETAIL**  
C6 NOT TO SCALE

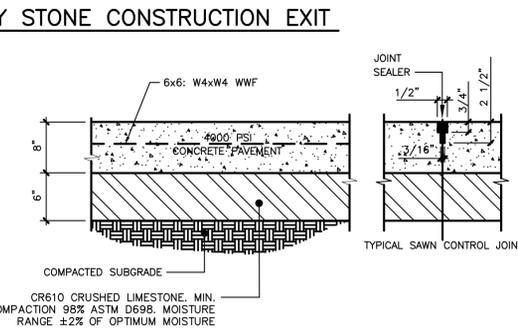
**GENERAL NOTES FOR BEDDING**

- BEDDING SHALL BE CLASS I-A WORKED BY HAND. IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I-B COMPACTED TO 95% STANDARD PROCTOR.
- HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I-A OR CLASS I-B OR CLASS II COMPACTED TO 95% STANDARD PROCTOR.
- INITIAL BACKFILL SHALL BE CLASS I-A WORKED BY HAND, OR CLASS I-B OR CLASS II COMPACTED TO 95% STANDARD PROCTOR.
- INITIAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS III COMPACTED TO 95% STANDARD PROCTOR.
- FINAL BACKFILL SHALL BE CLASS I, II, OR III COMPACTED AS NOTED IN NOTES 3 AND 4.
- FINAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS IV-A COMPACTED TO 95% STANDARD PROCTOR.
- ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321-89.
- ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 698. CLASS III AND IV-A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT.
- FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".
- ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES. (SEE SPECIFICATIONS)
- BEDDING MATERIAL USED IN CONJUNCTION WITH ANY PIPES WHICH PENETRATE AN EMBANKMENT SHALL BE LOW PERMEABILITY, COHESIVE SOIL. SOILS EXHIBITING HIGH SHRINK/SWELL POTENTIAL OR CONTAINING GREATER THAN 5% ORGANICS SHALL NOT BE USED.

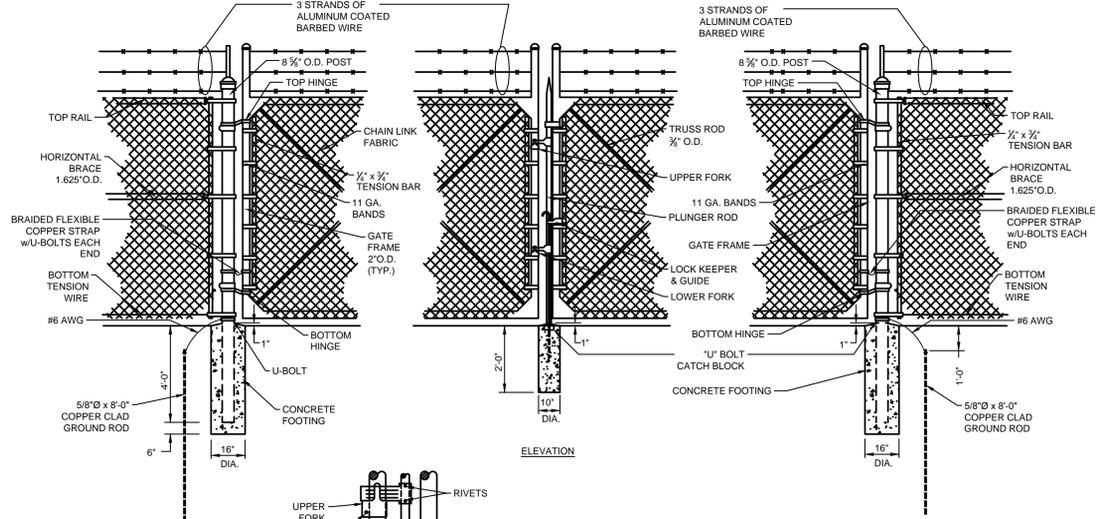


**7 PIPE BOLLARD DETAIL**  
C6 NOT TO SCALE

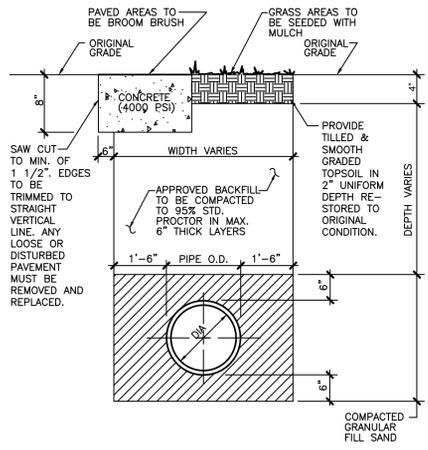
CONCRETE FILLED  
8" O.D.  
PRIOR TO INSTALLATION, PAINT WITH TWO COATS OF RUST PROOF PRIMER, THEN WITH TWO COATS OF BRIGHT YELLOW ENAMEL.  
FINISHED GRADE  
2" CONCRETE FOOTING  
3" MIN.



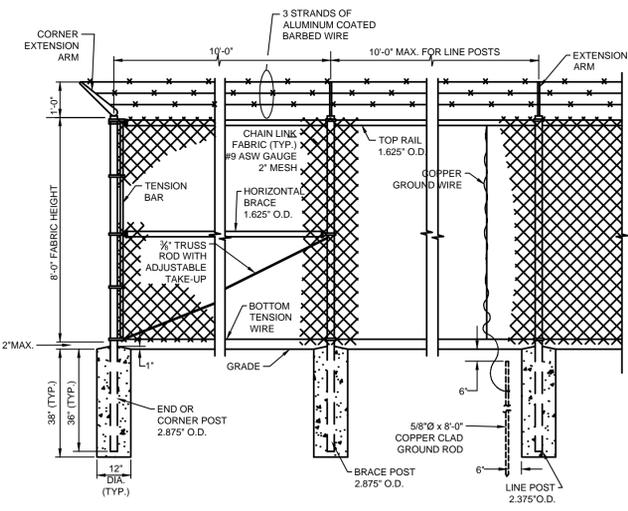
**8 CONCRETE PAVEMENT DETAIL**  
C6 NOT TO SCALE



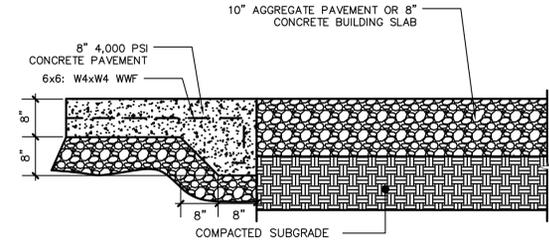
**11 DOUBLE SWING GATE DETAIL**  
C6 NOT TO SCALE



**9 TYPICAL TRENCH REPAIR**  
C6 NOT TO SCALE



**10 CHAIN LINK SECURITY FENCE**  
C6 NOT TO SCALE



**13 CONCRETE PAVEMENT TURNDOWN**  
C6 NOT TO SCALE

Mark	Date	Description
REVISIONS		

CLIENT

SHELBY COUNTY SUPPORT SERVICES  
584 ADAMS  
MEMPHIS, TENNESSEE 38103

PROJECT NAME  
**Fire Fleet Maintenance Facility**

Project No. 2015478  
Date Issued 02/19/2016  
Drawing Scale N.T.S.  
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DRAWING TITLE  
**DETAILS**



SHEET ID  
**CONSTRUCTION DOCUMENTS**

Mark	Date	Description
REVISIONS		
CLIENT		
SHELBY COUNTY SUPPORT SERVICES 584 ADAMS MEMPHIS, TENNESSEE 38103		

PROJECT NAME  
**FIRE FLEET MAINTENANCE FACILITY**

Project No. 2015478  
Date Issued 02/19/2016  
Drawing Scale As indicated  
Copyright © 2015 brg3s

DRAWING TITLE  
**FLOOR PLAN**

SEALS  
S. BRETT RAGSDALE  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF TENNESSEE  
02/19/16

SHEET ID CONSTRUCTION DOCUMENTS

**A200**

**GENERAL PLAN NOTES:**

- PARTITION TYPES ARE TYPE A (FULL HEIGHT PARTITIONS), UNLESS NOTED OTHERWISE.
- SEE A700 FOR TYPICAL DOOR DETAILS AND DOOR ELEVATIONS.

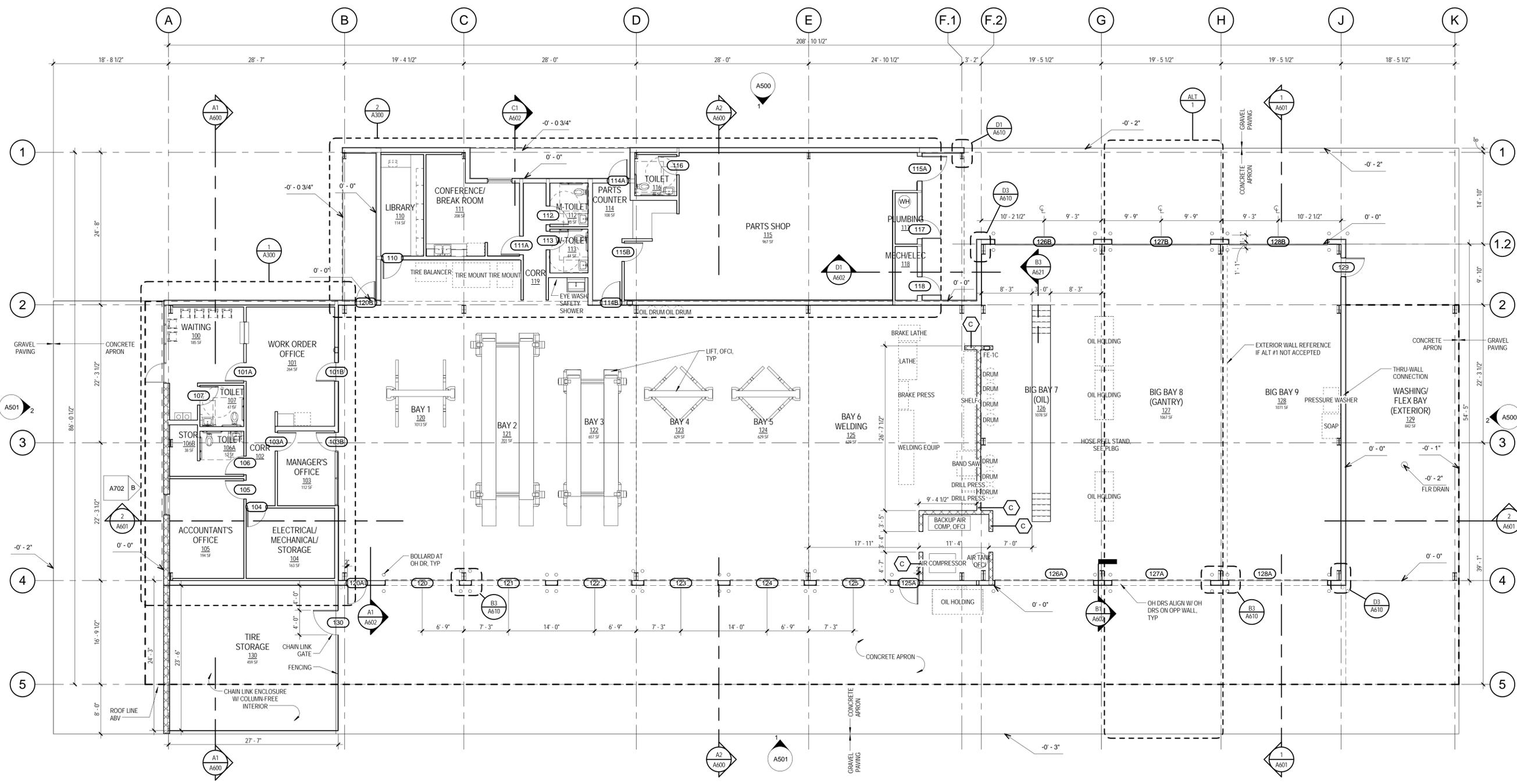
**REFERENCE SYMBOLS:**

- DOOR TAG, SEE DOOR SCHEDULE
- PARTITION TYPE TAG, SEE PARTITION TYPES
- INTERIOR ELEVATION TAG
- GLAZING ELEVATION TAG
- EQUIPMENT, OFOI

**ALTERNATE LEGEND:**

Alternate No. 1 - Add Big Bay 8, No. 127:

- Base Bid: Big Bay 8 No. 127 is not included in the work. Big Bay 9 No. 128 and Washing/Flex Bay No. 129 are to be moved to the west, adjacent to Big Bay 7 No. 126.
  - Structure associated with removal of Big Bay 8 along with associated floor slab, concrete apron, sectional doors, bollards and exterior shell are not included in the work.
  - Gantry and associated supporting steel is to be included in Big Bay 9.
  - Gravel paving is to fill in space vacated by relocation of Washing/Flex Bay and Big Bay 9.
  - Electrical power, lighting and the wiring supporting these components in Big Bay 8 are not to be included.
  - Plumbing drain systems in Big Bay 8 along with the associated piping for this bay are not to be included.
  - EF-8 is to be located in Big Bay 9.
  - IRH 3 (infrared heater) is to be located along column line G.
- Alternate Item: All work associated with adding Big Bay 8 into the project as indicated on drawings. In addition to the work indicated on the drawings:
  - Upgrade MAU-1 to Reszor Model No. PCD40, 500 Mch input / 400 Mch output, 0.5" w.c. external static, 3200 cfm airflow, and fan motor at 2 hp (460/3/60).
  - Resize supply air ductwork from MAU-1 to 22x22. Resize supply air ductwork in Big Bay 7 to 24"Ø and 16'Ø.



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

2/19/2016 12:19:15 PM C:\Users\klaywood\Documents\2015478 Shelby County Fleet Services Building.klaywood.rvt

Mark	Date	Description
REVISIONS		

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SHELBY COUNTY SUPPORT SERVICES  
 584 ADAMS  
 MEMPHIS, TENNESSEE 38103

PROJECT NAME

**FIRE FLEET  
 MAINTENANCE  
 FACILITY**

Project No. 2015478  
 Date Issued 02/19/2016  
 Drawing Scale 1/8" = 1'-0"  
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DRAWING TITLE

**ROOF PLAN**

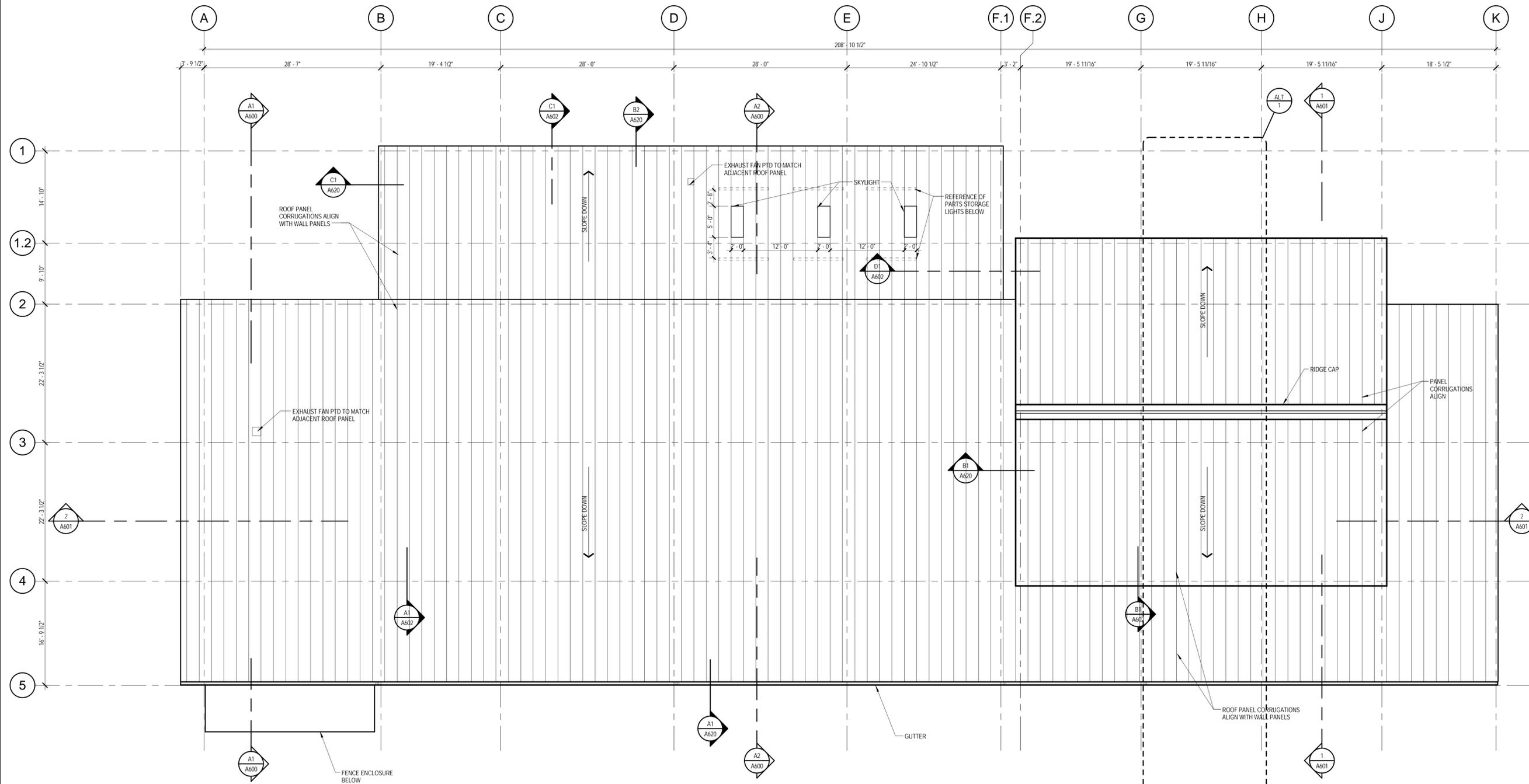
SEALS



SHEET ID

CONSTRUCTION DOCUMENTS

**A210**



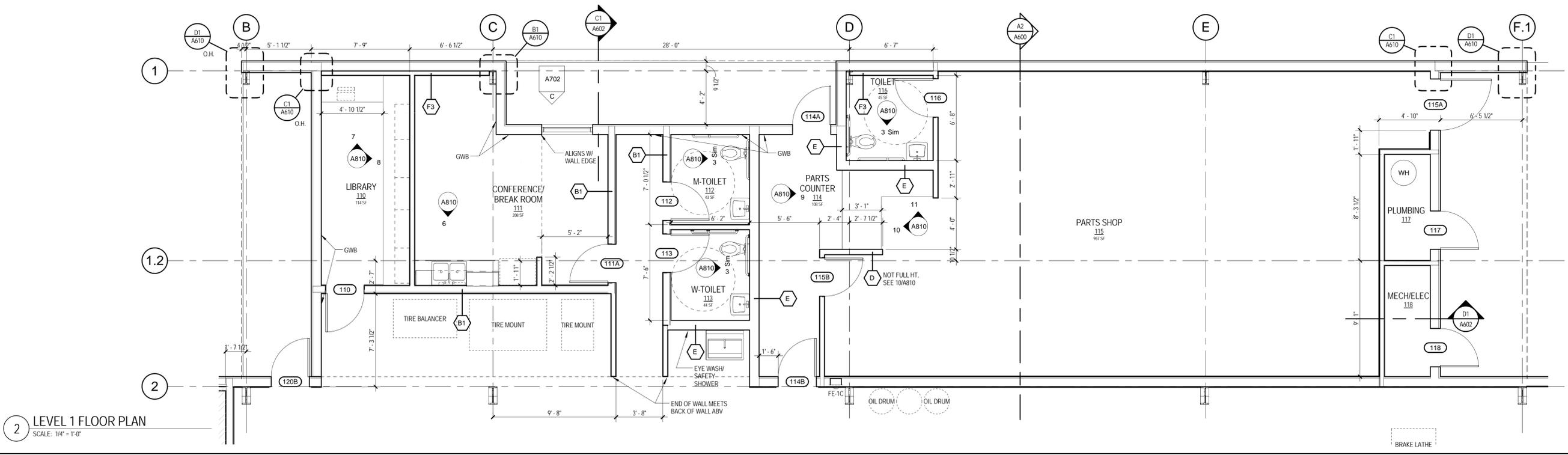
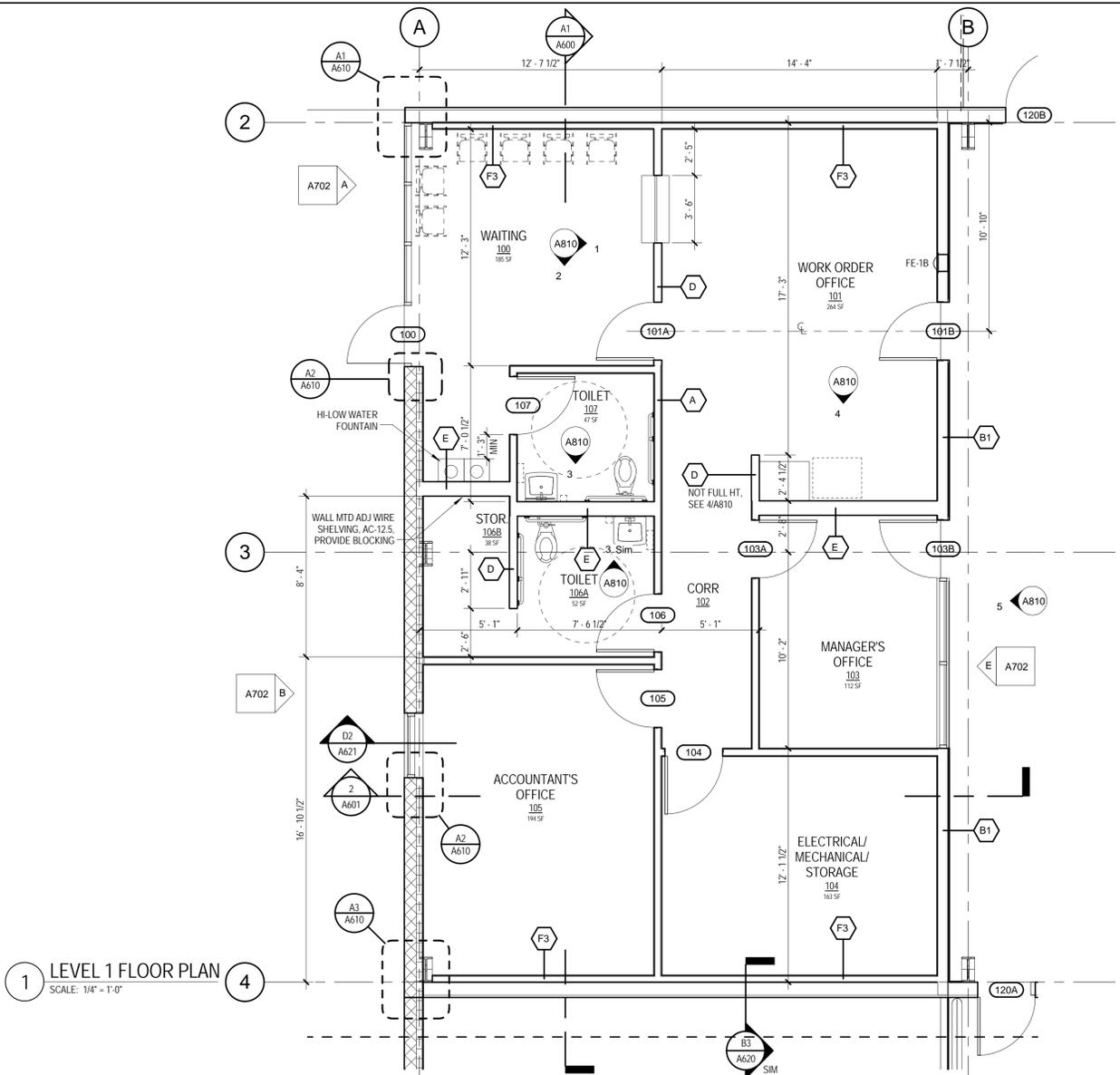
**1 ROOF-PLAN**  
 SCALE: 1/8" = 1'-0"

GENERAL PLAN NOTES:

- PARTITION TYPES ARE TYPE A (FULL HEIGHT PARTITIONS), UNLESS NOTED OTHERWISE.
- SEE A700 FOR TYPICAL DOOR DETAILS AND DOOR ELEVATIONS.

REFERENCE SYMBOLS:

- DOOR TAG, SEE DOOR SCHEDULE
- PARTITION TYPE TAG, SEE PARTITION TYPES
- INTERIOR ELEVATION TAG
- GLAZING ELEVATION TAG
- EQUIPMENT, OFOI

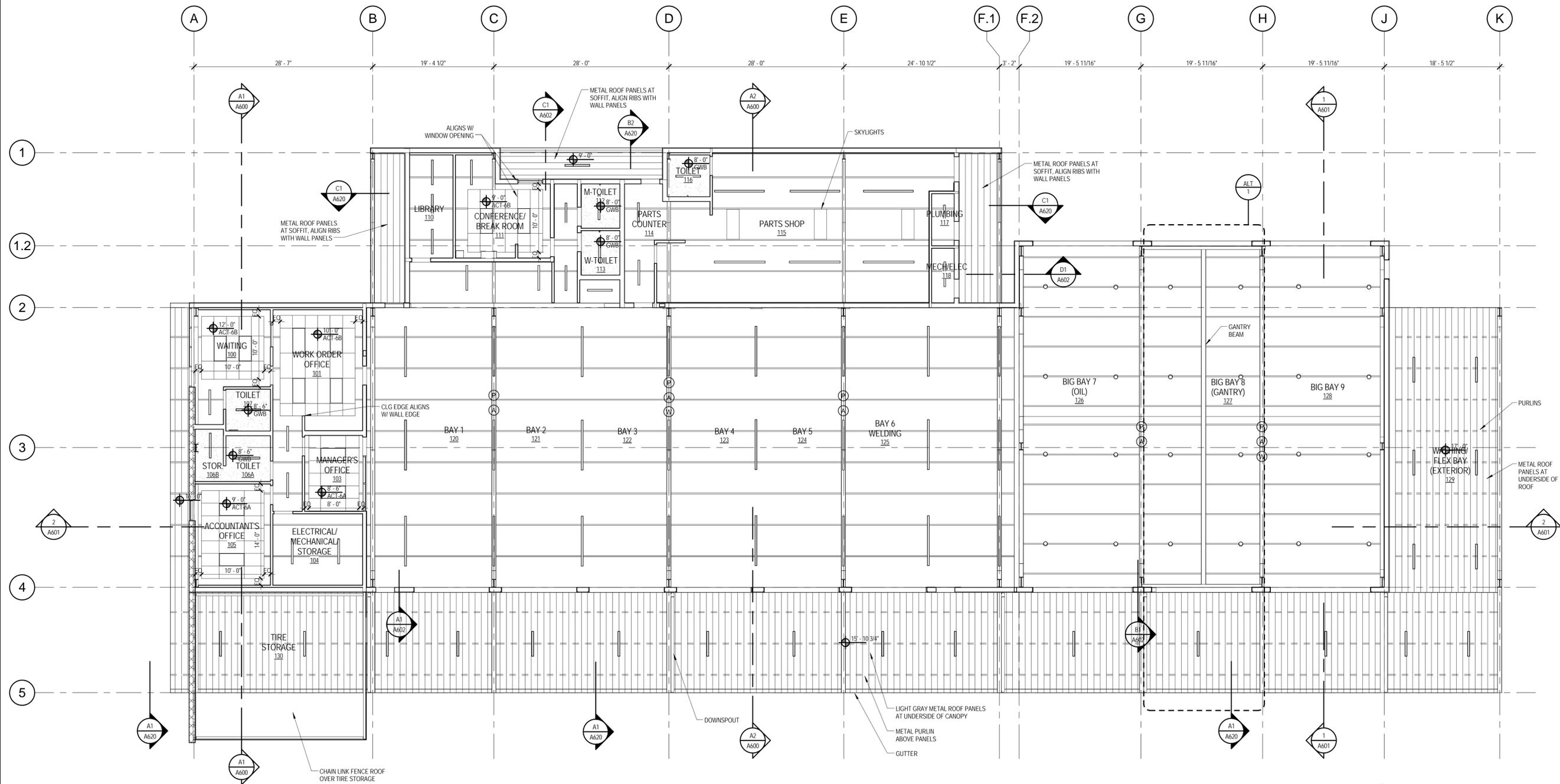


**REFLECTED CEILING GENERAL NOTES:**

- ALL CEILINGS EXPOSED UNLESS OTHERWISE NOTED.
- COORDINATE ALL ABOVE CEILING WORK PRIOR TO START OF CONSTRUCTION AND FABRICATION OF COMPONENTS.
- COORDINATE ALL CEILING WORK WITH OWNER'S INSTALLATION OF EQUIPMENT.
- PROVIDE ADDITIONAL FRAMING AS NECESSARY FOR CLG MTD HOSE REELS. SEE PLUMBING 6A401.

**REFLECTED CEILING LEGEND:**

- |  |                                    |  |                              |
|--|------------------------------------|--|------------------------------|
|  | RECESSED 2x4 FLUORESCENT LIGHT     |  | CEILING HEIGHT SYMBOL        |
|  | RECESSED 2x2 LED LIGHT             |  | EXIT SIGN                    |
|  | RECESSED DOWN LIGHTS               |  | MECHANICAL SUPPLY DIFFUSER   |
|  | DIRECTIONAL RECESSED CAN           |  | MECHANICAL RETURN REGISTER   |
|  | PENDANT LIGHTS                     |  | MECHANICAL EXHAUST           |
|  | 2x4 ACOUSTIC TILE                  |  | POWER REEL SEE ELECTRICAL    |
|  | GYPSUM WALLBOARD CEILING OR SOFFIT |  | COMPRESSED AIR REEL SEE PLBG |
|  |                                    |  | WATER REEL SEE PLUMBING      |



CIVIL & STRUCTURAL  
**SSR** Smith Sockman Reid, Inc.  
2650 Thousand Oaks Boulevard, Suite 3200  
Memphis, TN 38118  
Telephone: 901.683.3900  
Facsimile: 901.683.3990  
Website: www.ssr-inc.com

MECHANICAL, PLUMBING, & ELECTRICAL  
**IES** INNOVATIVE ENGINEERING SERVICES, LLC

Mark	Date	Description

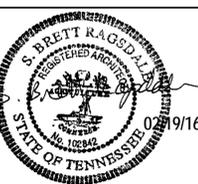
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**SHELBY COUNTY SUPPORT SERVICES**  
584 ADAMS  
MEMPHIS, TENNESSEE 38103

PROJECT NAME  
**FIRE FLEET MAINTENANCE FACILITY**

Project No. 2015478  
Date Issued 02/19/2016  
Drawing Scale As indicated  
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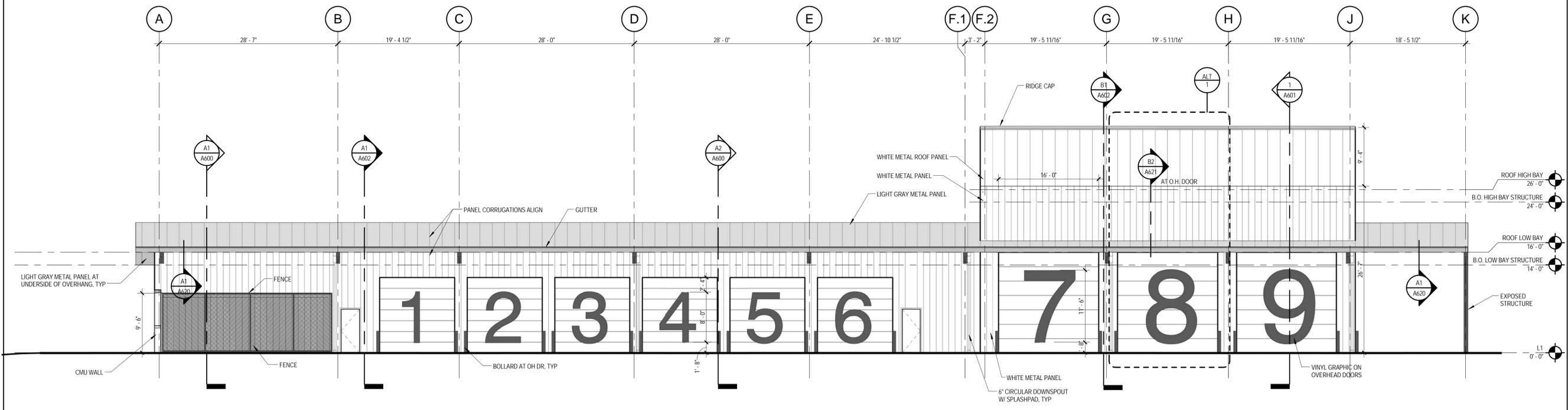
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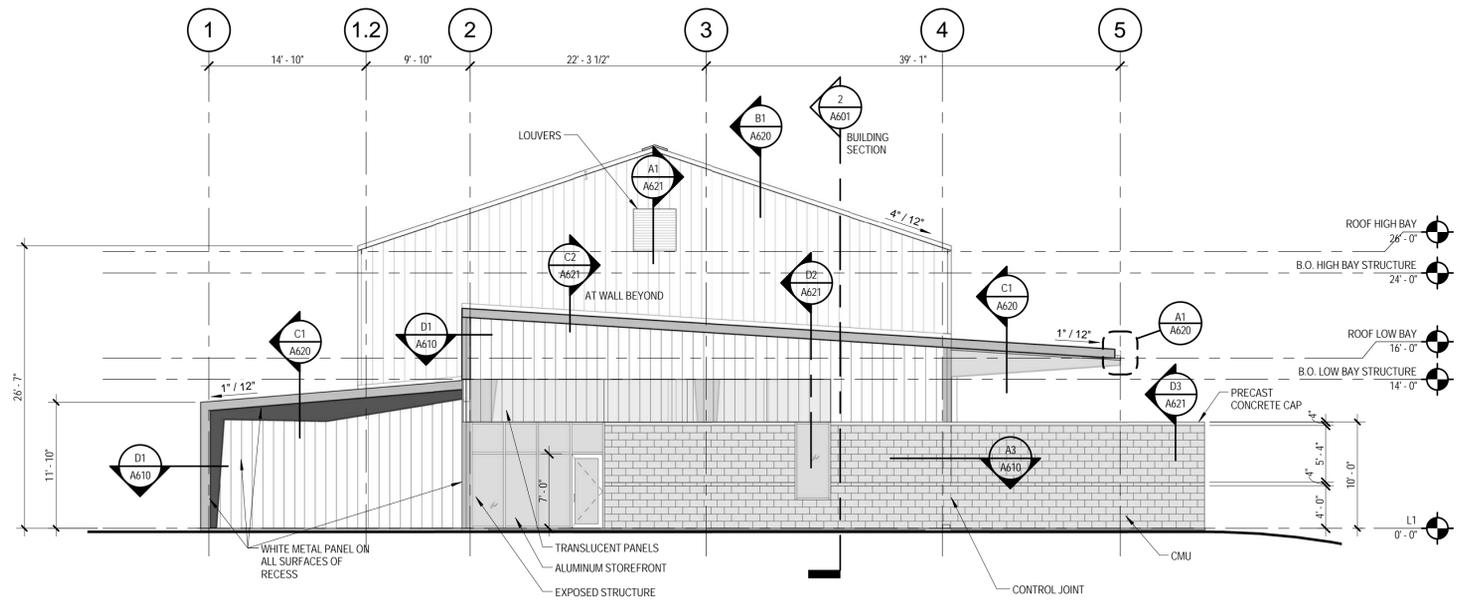
SHEET ID CONSTRUCTION DOCUMENTS

**A400**





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



2 WEST  
SCALE: 1/8" = 1'-0"

ELEVATION LEGEND:

- LIGHT GRAY METAL PANEL TO MATCH BUTLER COOL SHELL GRAY
- WHITE METAL PANEL TO MATCH BUTLER COOL SOLAR WHITE

1. EXTERIOR SURFACES ARE METAL PANEL EXCEPT FOR GLAZING & LOUVERS, CMU, AND EXPOSED STRUCTURE.
2. EXPOSED STEEL STRUCTURE PAINTED TO MATCH FARRELL CALHOUN, COLOR 8796N BLACK METAL.
3. ALL STOREFRONT TO BE ANODIZED.
4. CUSTOM VINYL GRAPHIC ON OVERHEAD DOORS, COLOR TO MATCH PAINT ACCENT (A) AS LISTED ON ID100. PAINT FINISH TO BE DETERMINED.
5. OVERHEAD AND MAN DOORS TO MATCH ADJACENT BUTLER COOL SOLAR WHITE OR COOL SHELL GRAY INDICATED GRAPHICALLY.
6. PIPE BOLLARDS PAINTED, COLOR TO MATCH PAINT ACCENT (A) AS LISTED ON ID100. PAINT FINISH TO BE DETERMINED.

Mark	Date	Description
REVISIONS		

CLIENT

SHELBY COUNTY SUPPORT SERVICES  
584 ADAMS  
MEMPHIS, TENNESSEE 38103

PROJECT NAME  
**FIRE FLEET MAINTENANCE FACILITY**

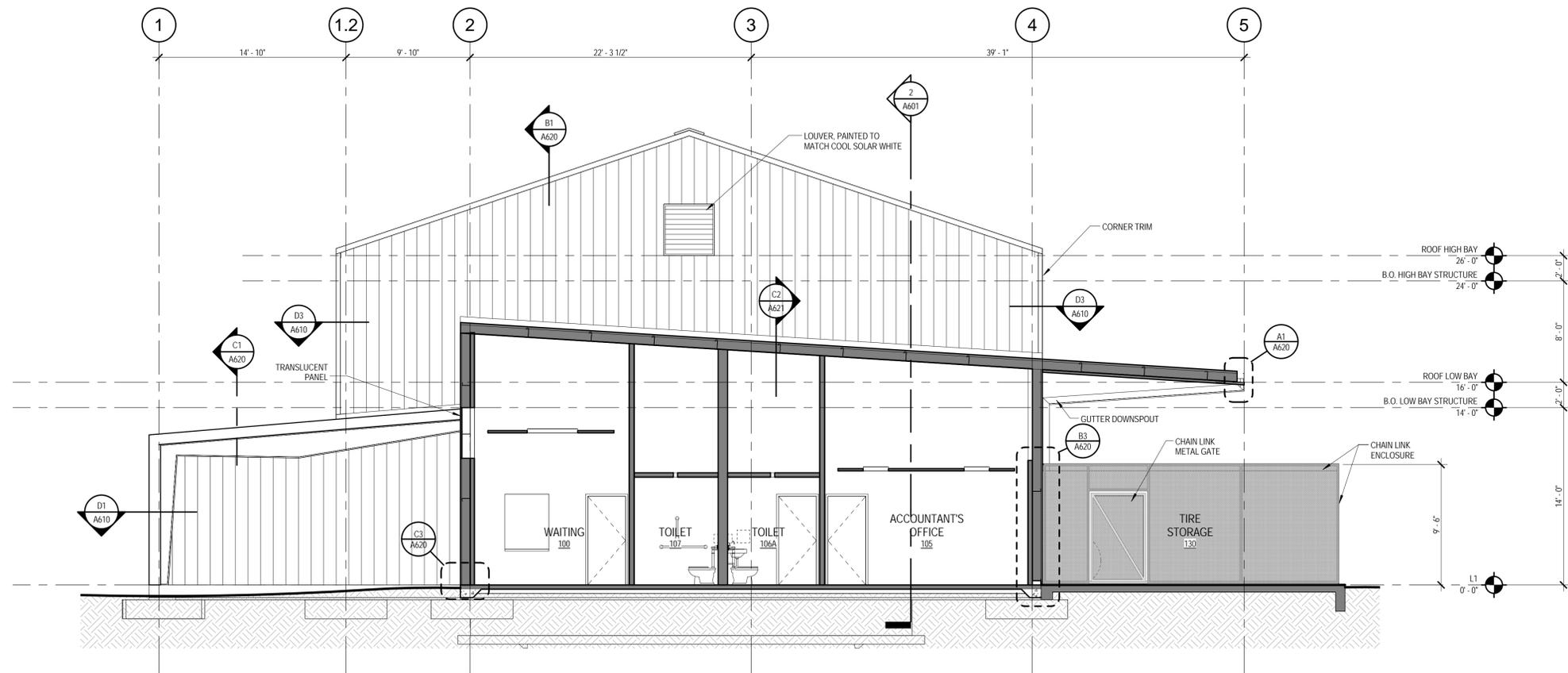
Project No. 2015478  
Date Issued 02/19/2016  
Drawing Scale As Indicated  
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DRAWING TITLE  
**BUILDING ELEVATIONS**

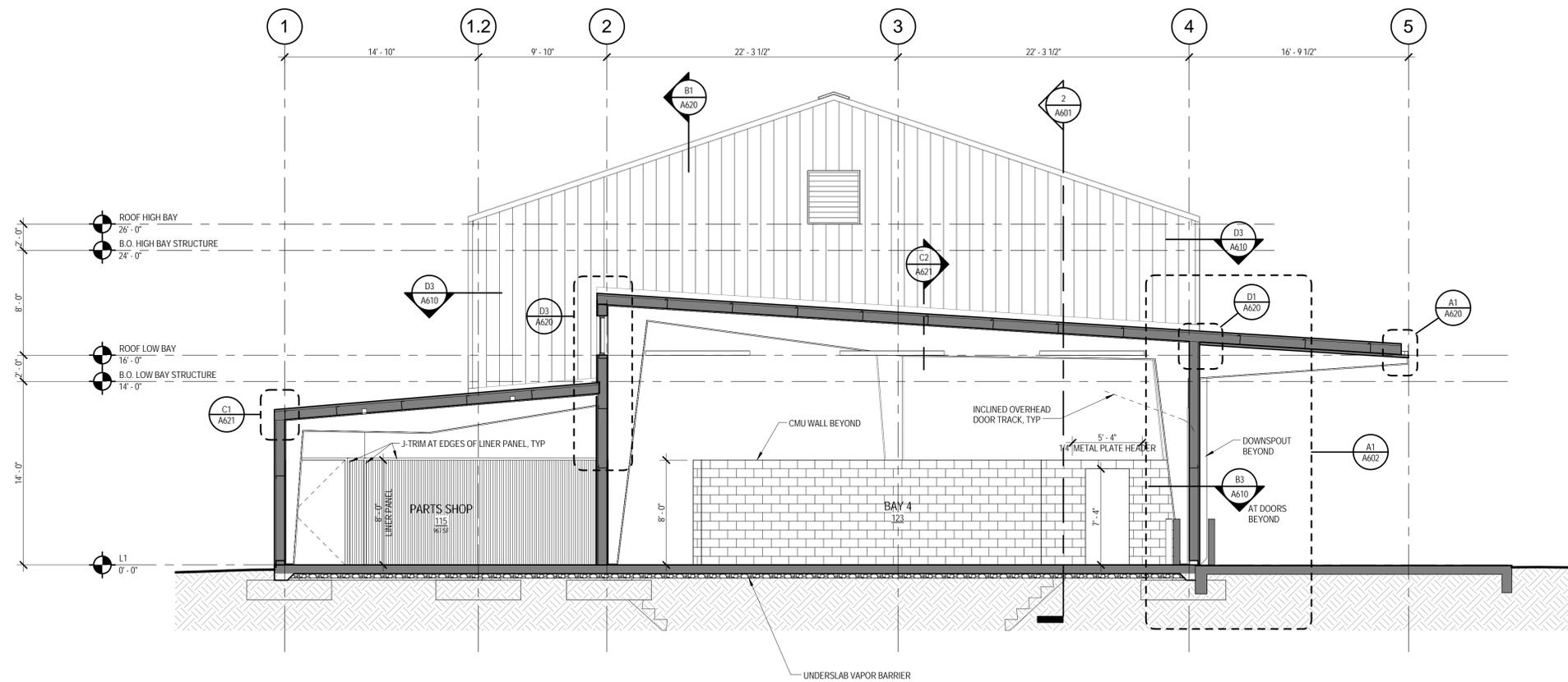


SHEET ID CONSTRUCTION DOCUMENTS

**A501**



**A1** ADMINISTRATION SECTION  
SCALE: 3/16" = 1'-0"



**A2** LOW BAY SECTION  
SCALE: 3/16" = 1'-0"

Mark	Date	Description
REVISIONS		

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SHELBY COUNTY SUPPORT SERVICES  
584 ADAMS  
MEMPHIS, TENNESSEE 38103

PROJECT NAME

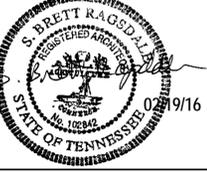
**FIRE FLEET  
MAINTENANCE  
FACILITY**

Project No. 2015478  
Date Issued 02/19/2016  
Drawing Scale 3/16" = 1'-0"  
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DRAWING TITLE

**BUILDING SECTIONS**

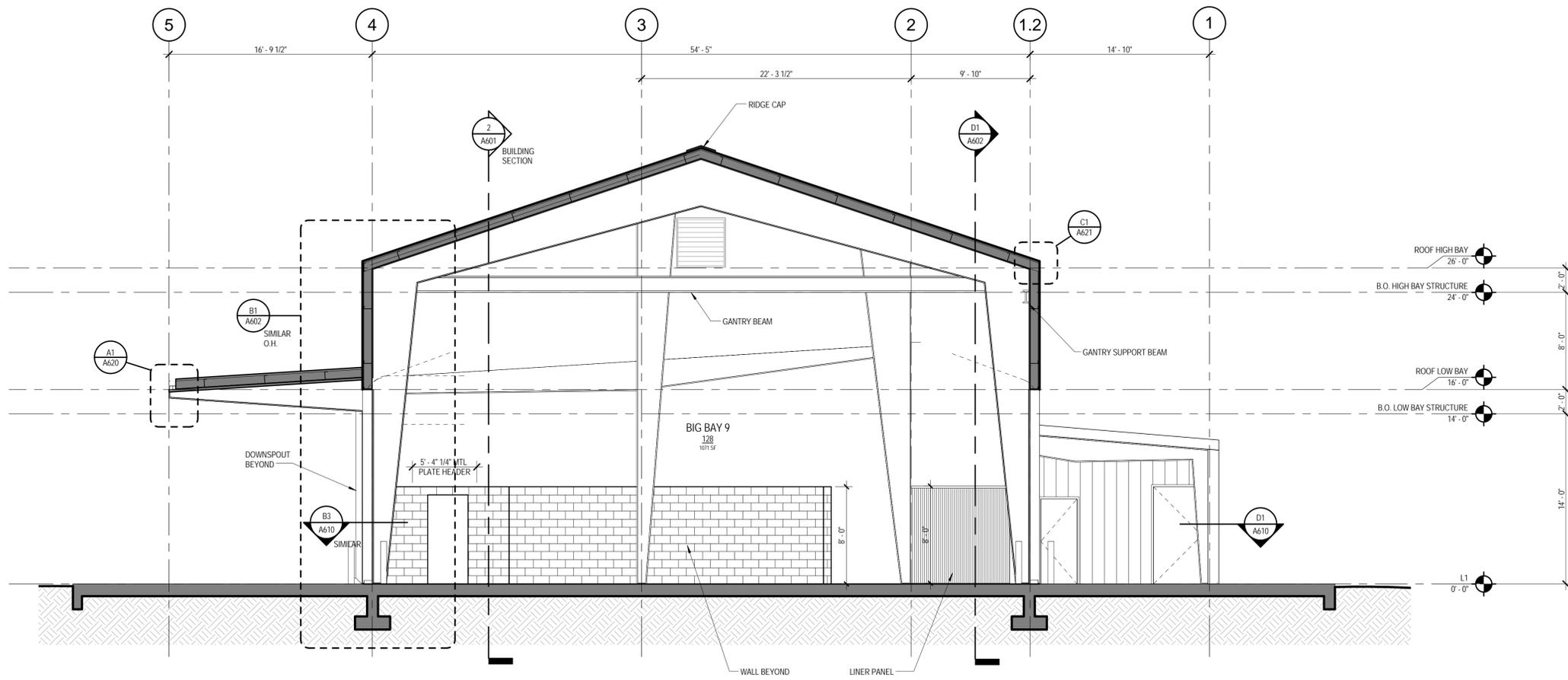
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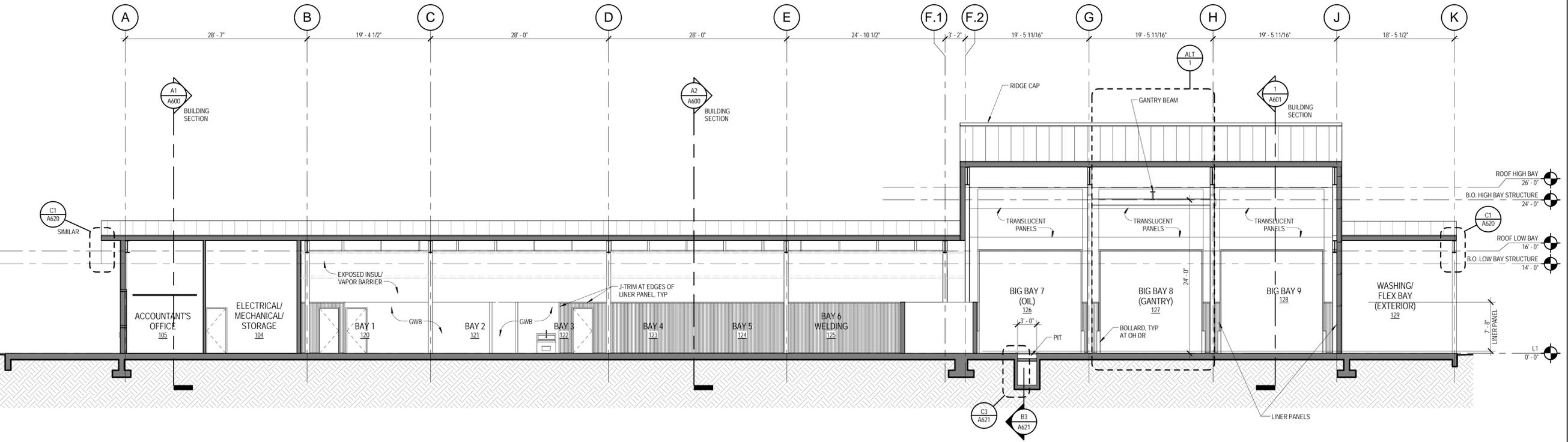
SHEET ID

CONSTRUCTION  
DOCUMENTS

**A600**



1 HIGH BAY SECTION  
 SCALE: 3/16" = 1'-0"



2 TRANSVERSE SECTION  
 SCALE: 1/8" = 1'-0"

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 584 ADAMS  
 MEMPHIS, TENNESSEE 38103

PROJECT NAME  
**FIRE FLEET  
 MAINTENANCE  
 FACILITY**  
 Project No. 2015478  
 Date Issued 02/19/2016  
 Drawing Scale As Indicated  
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DRAWING TITLE  
**BUILDING SECTIONS**



SHEET ID CONSTRUCTION DOCUMENTS

A601

Mark	Date	Description
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 584 ADAMS  
 MEMPHIS, TENNESSEE 38103

PROJECT NAME

**FIRE FLEET  
 MAINTENANCE  
 FACILITY**

Project No. 2015478  
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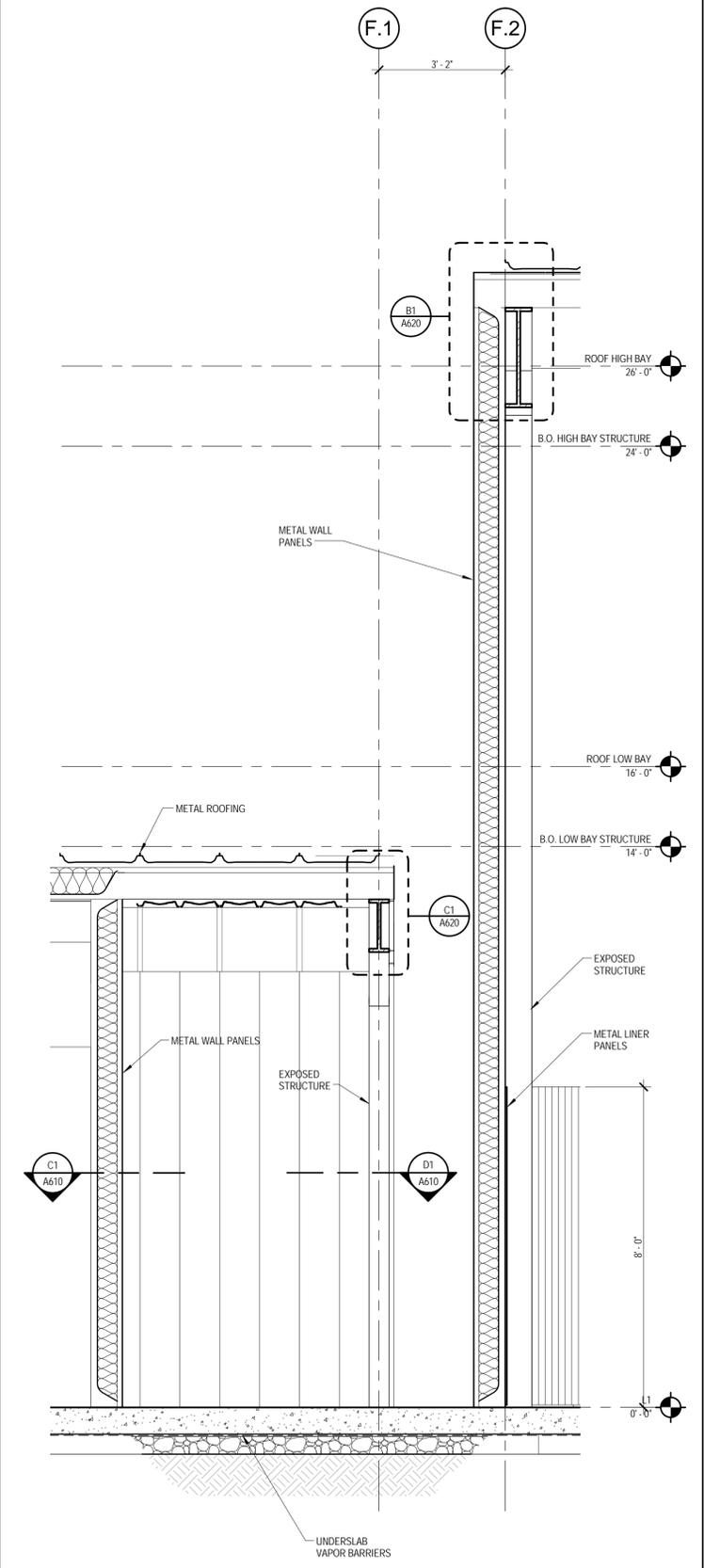
DRAWING TITLE

**EXTERIOR WALL  
 SECTIONS**

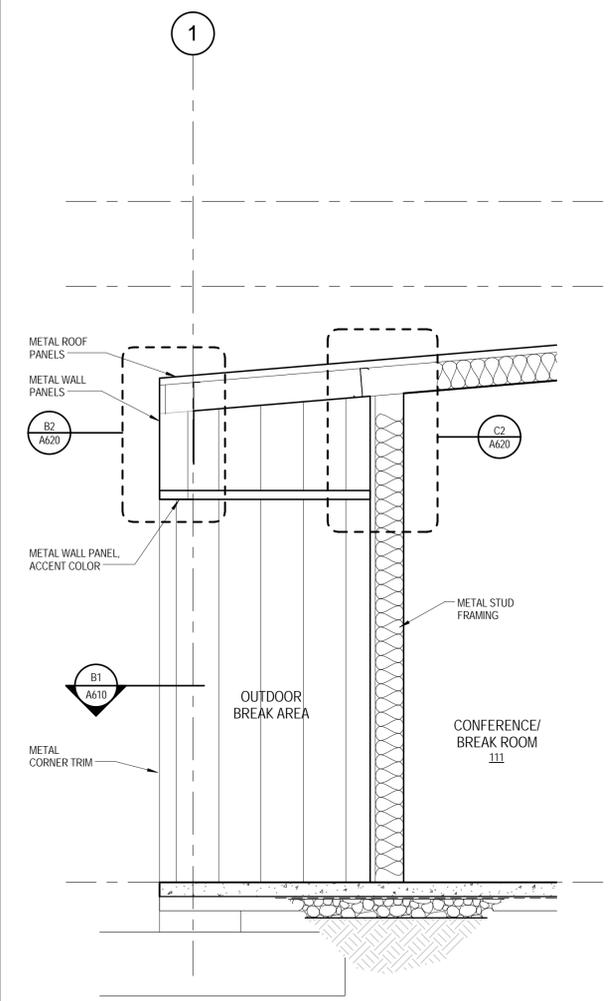


SHEET ID CONSTRUCTION DOCUMENTS

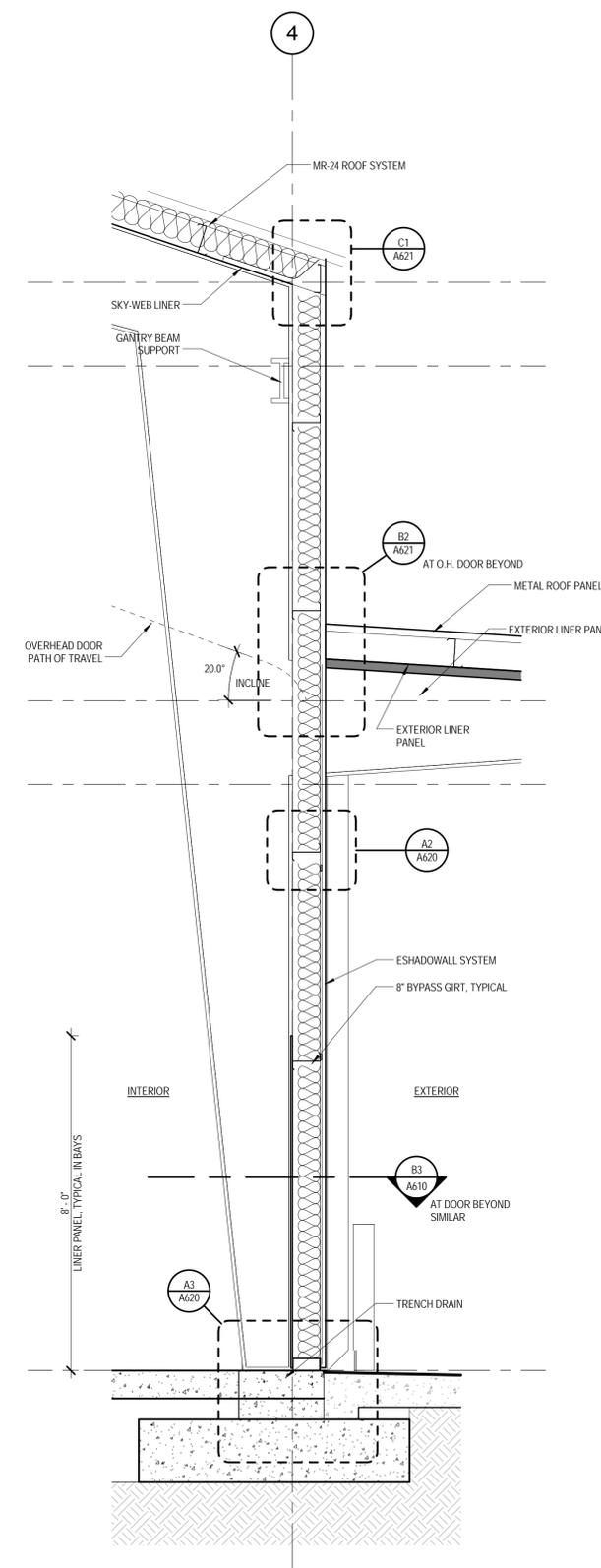
**A602**



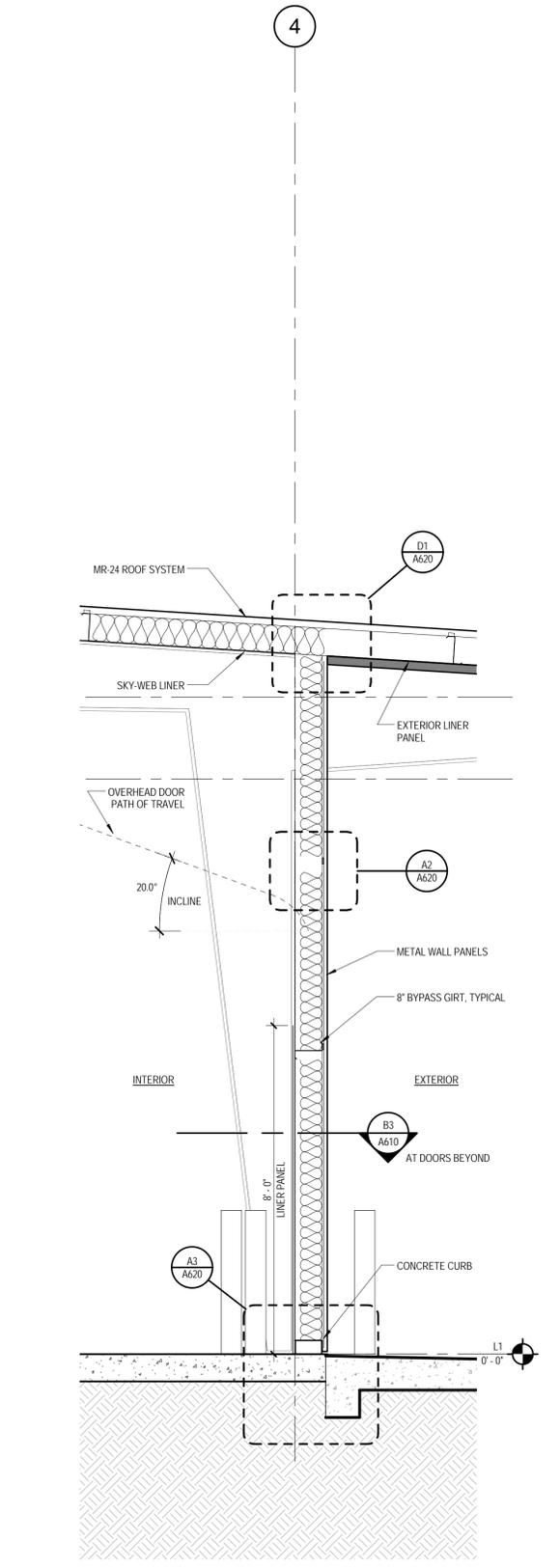
**D1** SECTION THROUGH LOW BAY  
 SCALE: 1/2" = 1'-0"



**C1** SECTION THRU LOW BAY  
 SCALE: 1/2" = 1'-0"



**B1** HIGH BAY WALL SECTION  
 SCALE: 1/2" = 1'-0"



**A1** LOW BAY WALL SECTION  
 SCALE: 1/2" = 1'-0"

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 MEMPHIS, TENNESSEE 38103

PROJECT NAME

**FIRE FLEET  
 MAINTENANCE  
 FACILITY**

Project No. 2015478  
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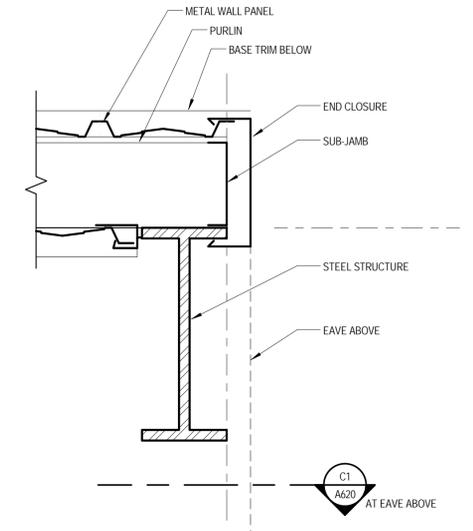
**EXTERIOR PLAN  
 DETAILS**



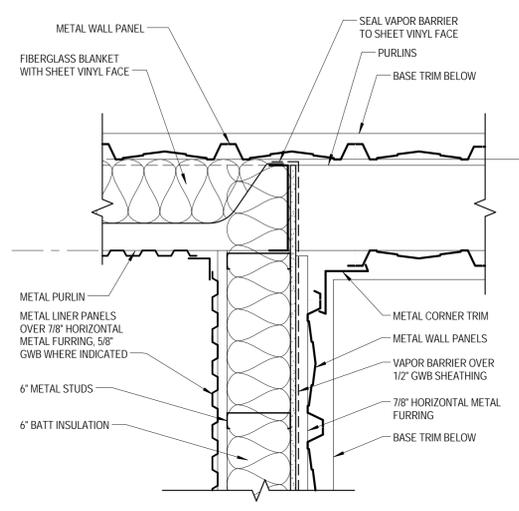
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CONSTRUCTION  
 DOCUMENTS

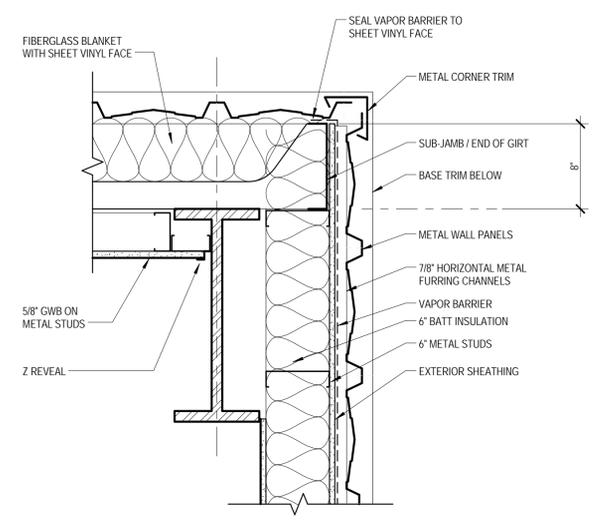
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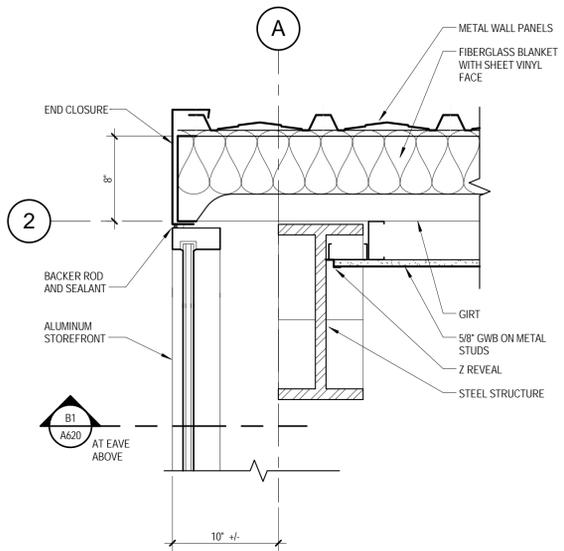
**D1** PLAN DETAIL AT END WALL  
 SCALE: 1/12" = 1'-0"



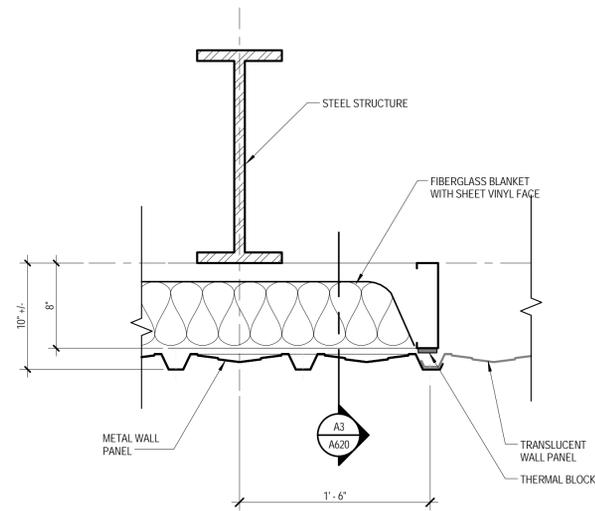
**C1** PLAN DETAIL  
 SCALE: 1/12" = 1'-0"



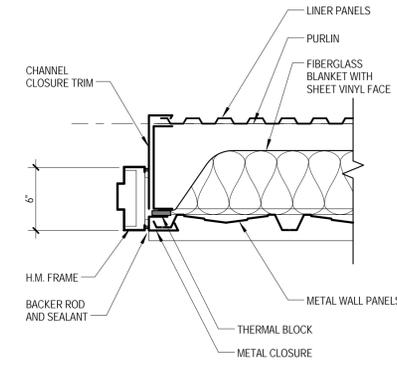
**B1** PLAN DETAIL - END OF GIRT  
 SCALE: 1/12" = 1'-0"



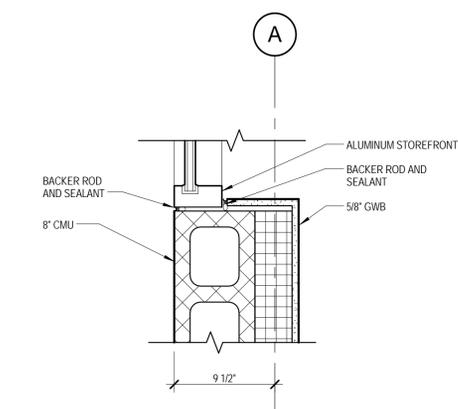
**A1** PLAN DETAIL  
 SCALE: 1/12" = 1'-0"



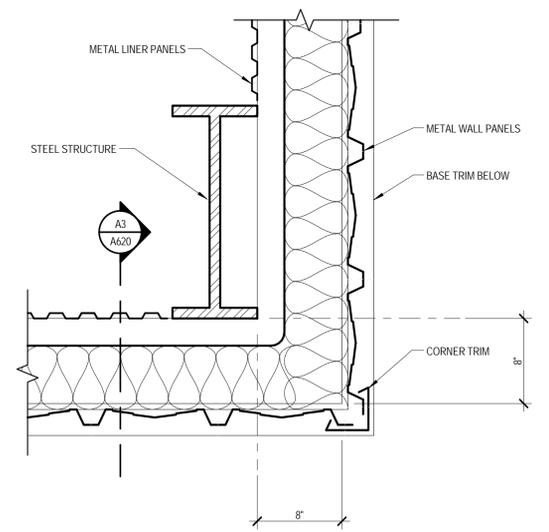
**C2** PLAN DETAIL AT TRANSLUCENT PANEL  
 SCALE: 1/12" = 1'-0"



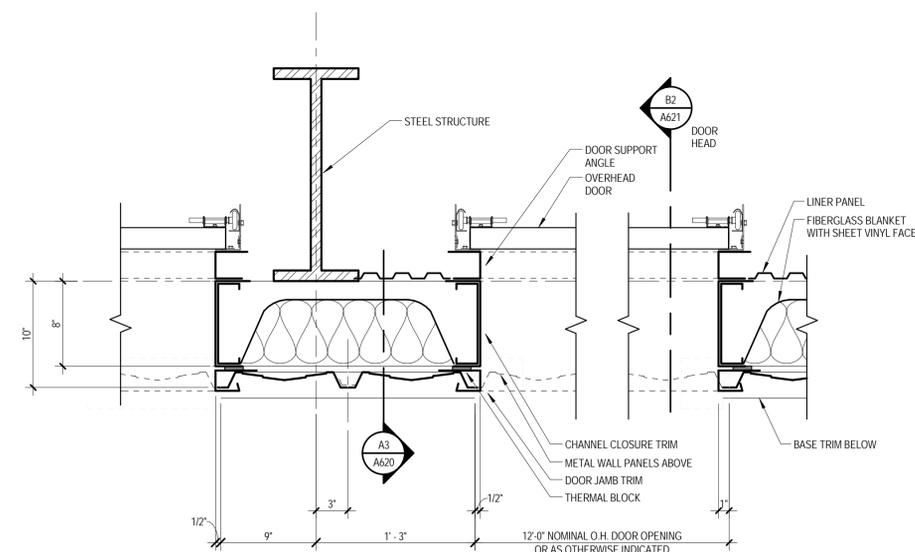
**B2** DOOR JAMB  
 SCALE: 1/12" = 1'-0"



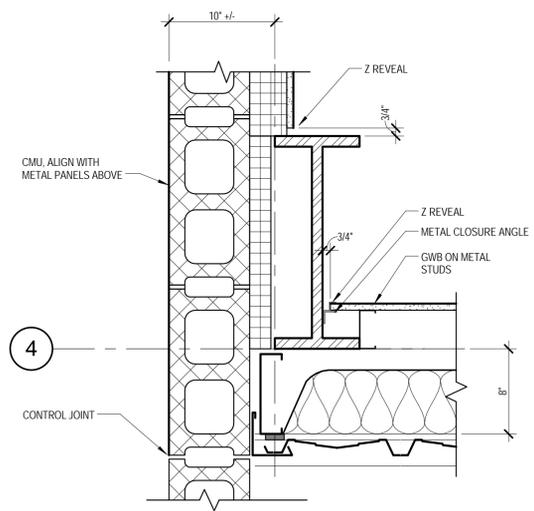
**A2** PLAN DETAIL AT CMU WALL  
 SCALE: 1/12" = 1'-0"



**D3** CORNER DETAIL  
 SCALE: 1/12" = 1'-0"



**B3** PLAN DETAIL AT OH DOOR  
 SCALE: 1/12" = 1'-0"



**A3** PLAN DETAIL AT CMU WALL  
 SCALE: 1/12" = 1'-0"

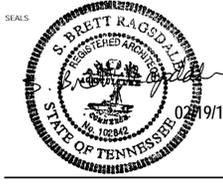
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584 ADAMS  
MEMPHIS, TENNESSEE 38103

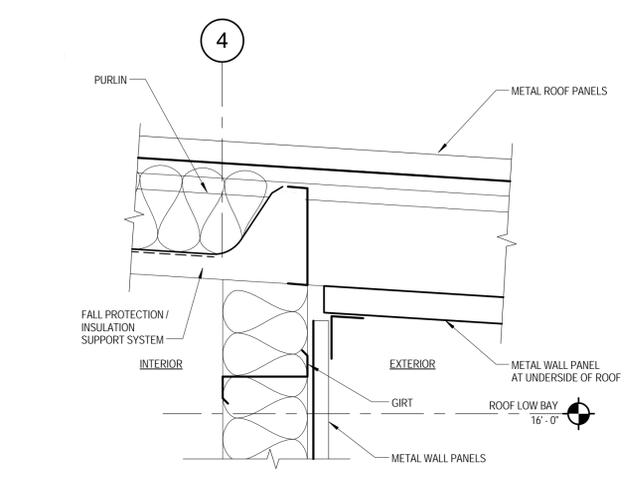
PROJECT NAME  
**FIRE FLEET MAINTENANCE FACILITY**  
Project No. 2015478  
Date Issued 02/19/2016  
Drawing Scale 1 1/2" = 1'-0"  
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DRAWING TITLE  
**EXTERIOR DETAILS**

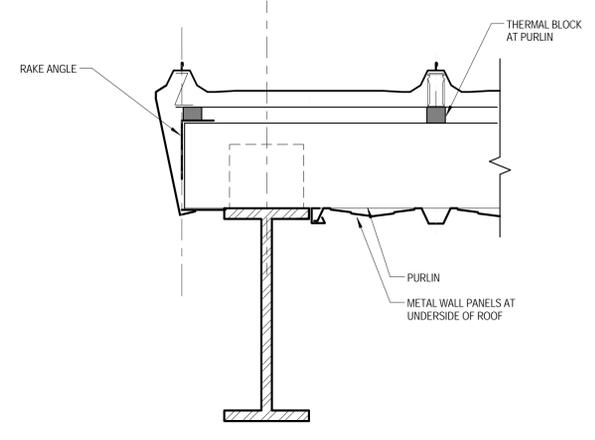


SHEET ID CONSTRUCTION DOCUMENTS

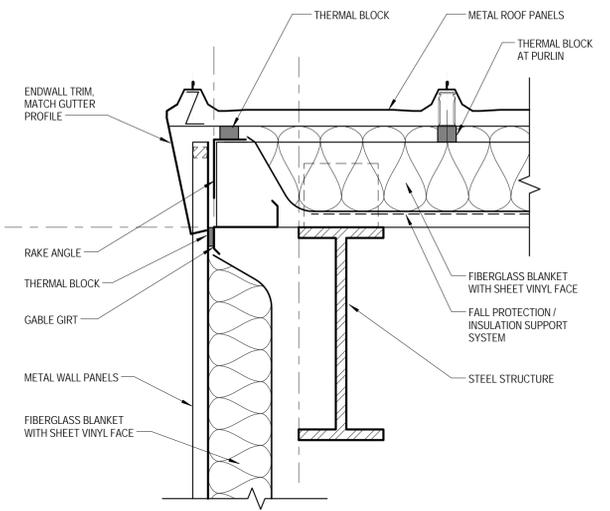
**A620**



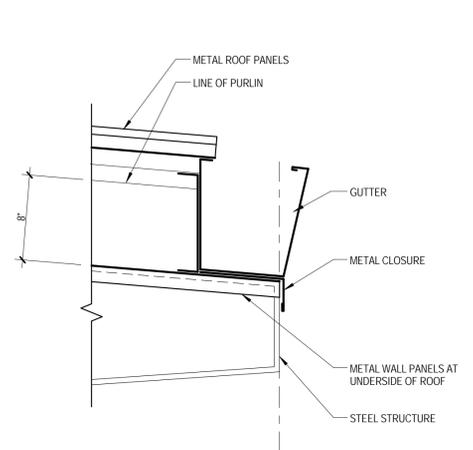
**D1** WALL ROOF CONNECTION  
SCALE: 1 1/2" = 1'-0"



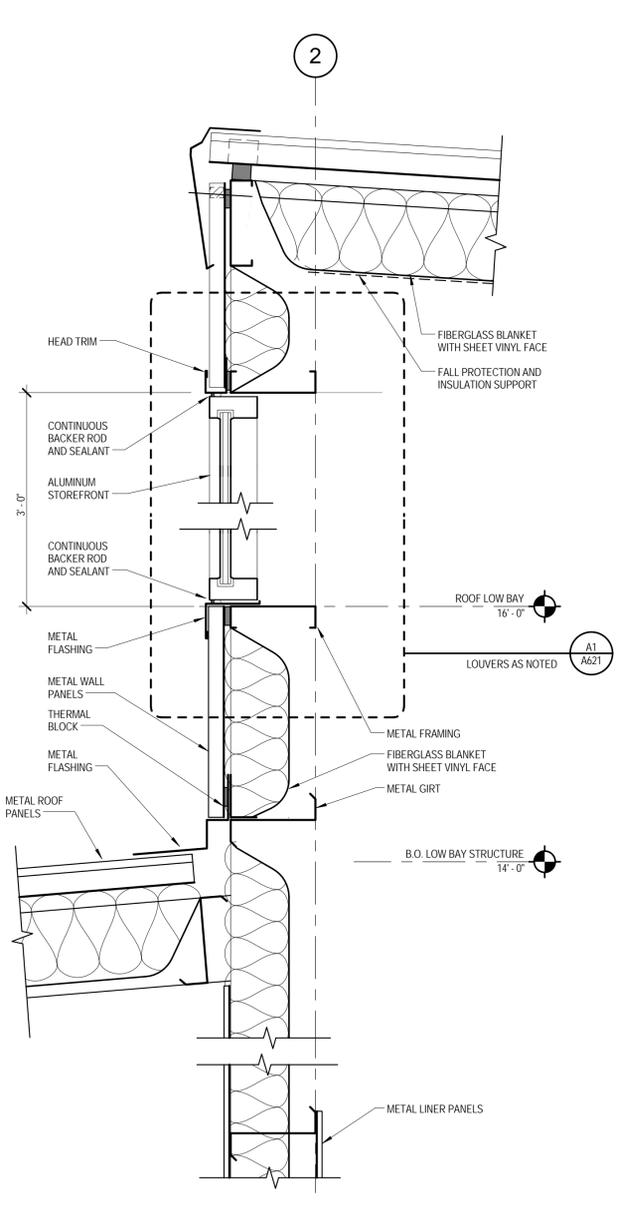
**C1** SECTION DETAIL AT END WALL  
SCALE: 1 1/2" = 1'-0"



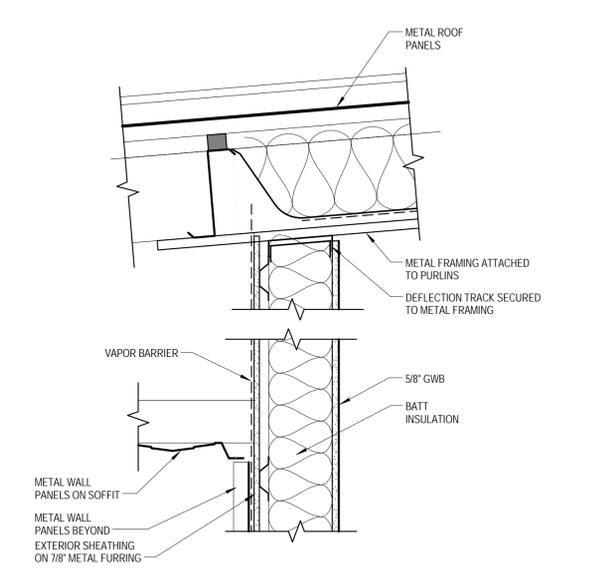
**B1** EAVE DETAIL  
SCALE: 1 1/2" = 1'-0"



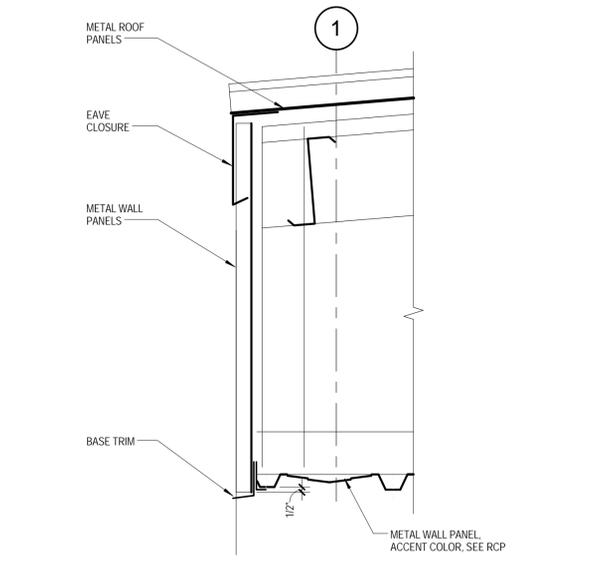
**A1** GUTTER DETAIL  
SCALE: 1 1/2" = 1'-0"



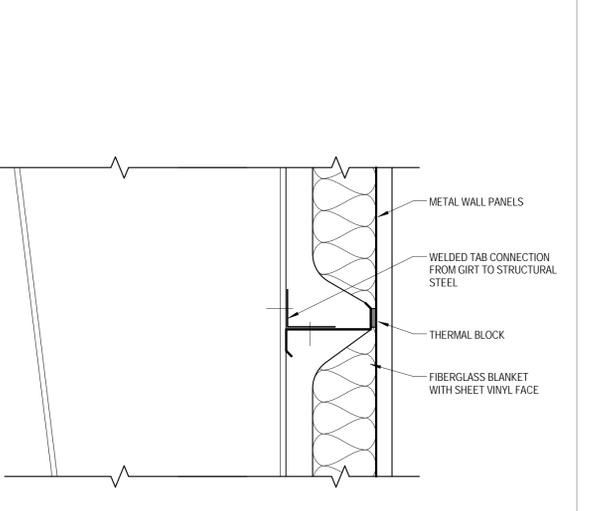
**D3** CLERESTORY DETAIL  
SCALE: 1 1/2" = 1'-0"



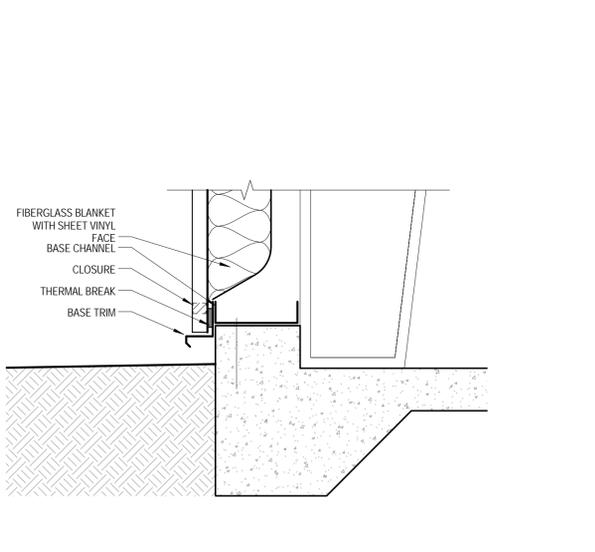
**C2** DETAIL  
SCALE: 1 1/2" = 1'-0"



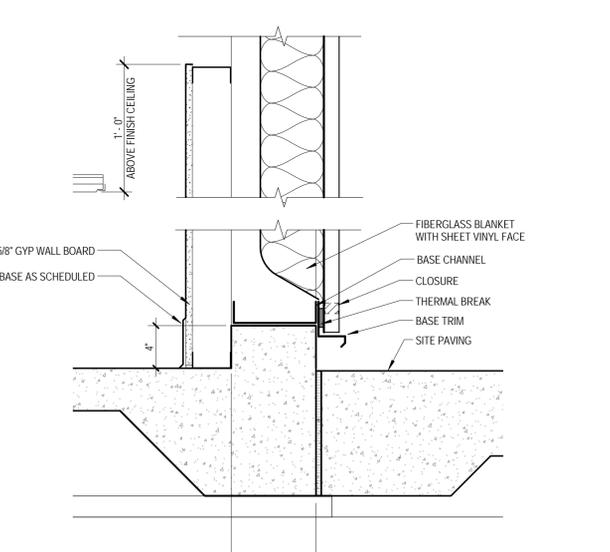
**B2** LOW BAY ROOF DETAIL  
SCALE: 1 1/2" = 1'-0"



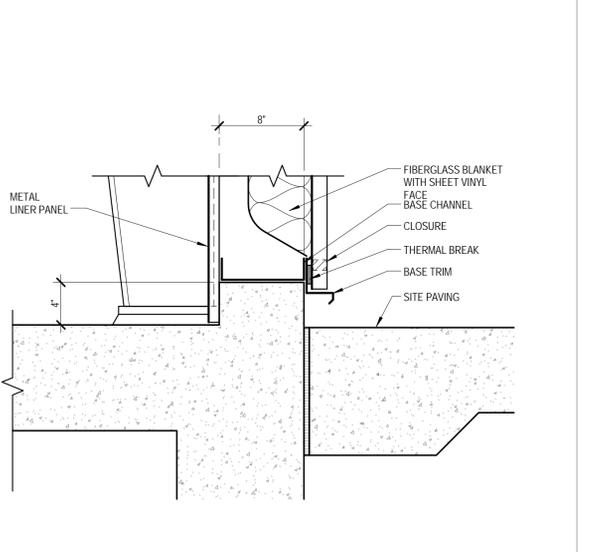
**A2** TYPICAL GIRT CONNECTION  
SCALE: 1 1/2" = 1'-0"



**C3** BASE DETAIL  
SCALE: 1 1/2" = 1'-0"



**B3** WALL DETAIL  
SCALE: 1 1/2" = 1'-0"



**A3** BASE DETAIL  
SCALE: 1 1/2" = 1'-0"

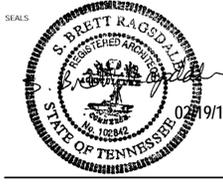
Mark	Date	Description
REVISIONS		
CLIENT		

SHELBY COUNTY SUPPORT SERVICES  
584 ADAMS  
MEMPHIS, TENNESSEE 38103

PROJECT NAME  
**FIRE FLEET  
MAINTENANCE  
FACILITY**

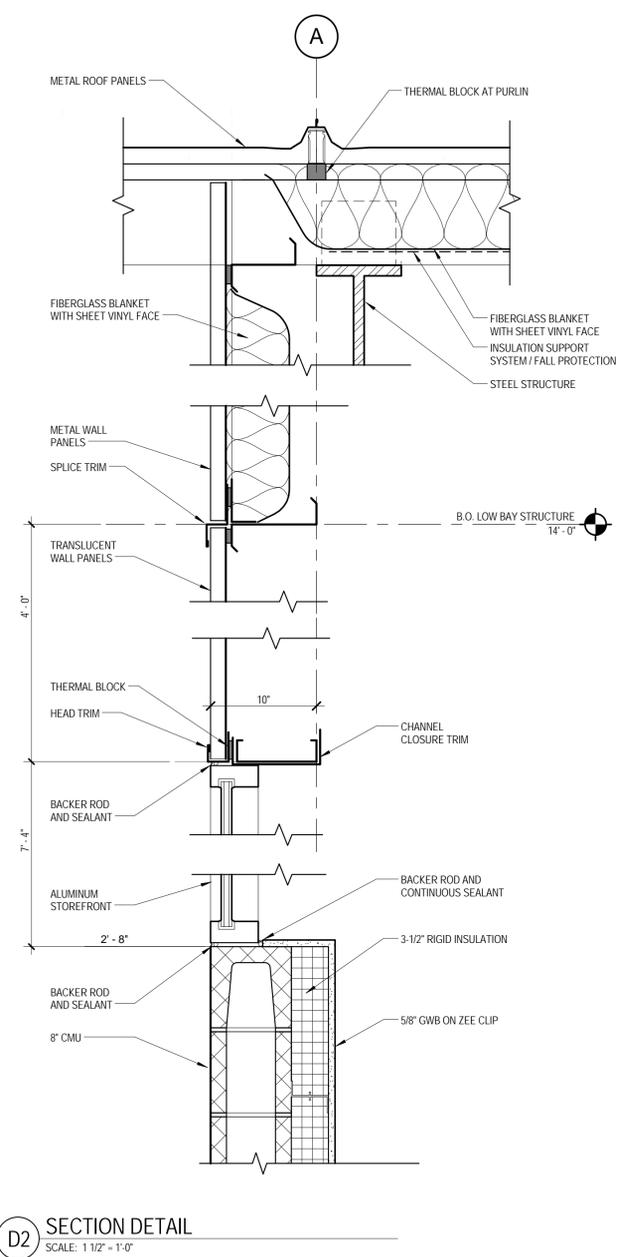
Project No. 2015478  
Date Issued 02/19/2016  
Drawing Scale As Indicated  
Copyright © 2015 brg3s

DRAWING TITLE  
**EXTERIOR DETAILS**

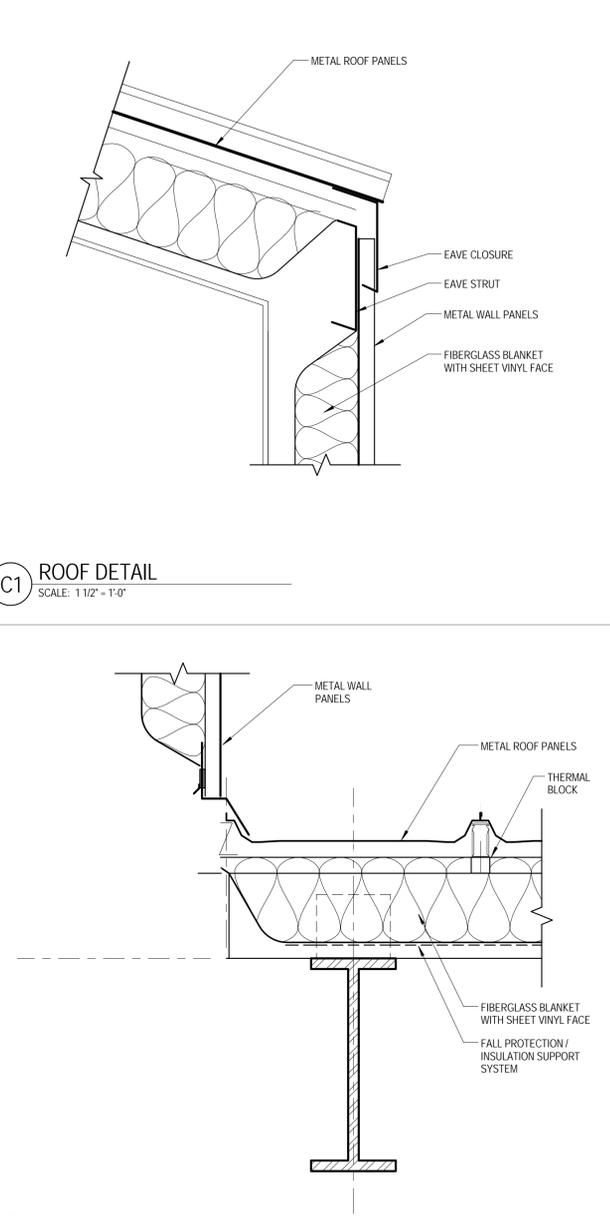


SHEET ID CONSTRUCTION DOCUMENTS

**A621**

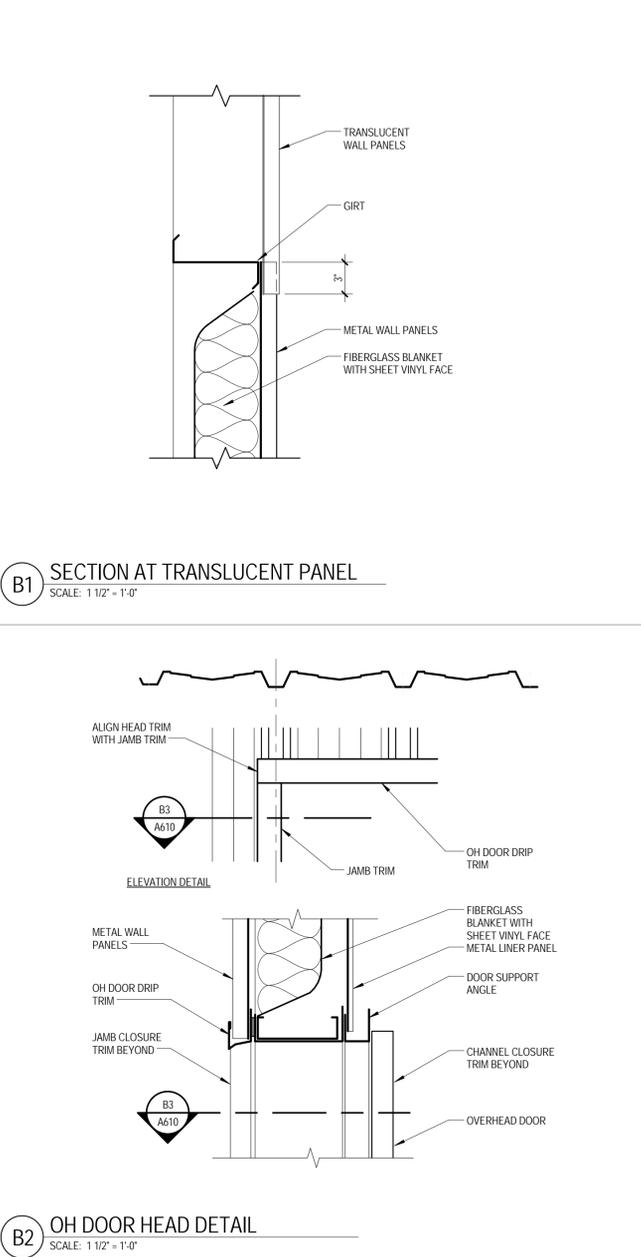


**D2** SECTION DETAIL  
SCALE: 1 1/2" = 1'-0"



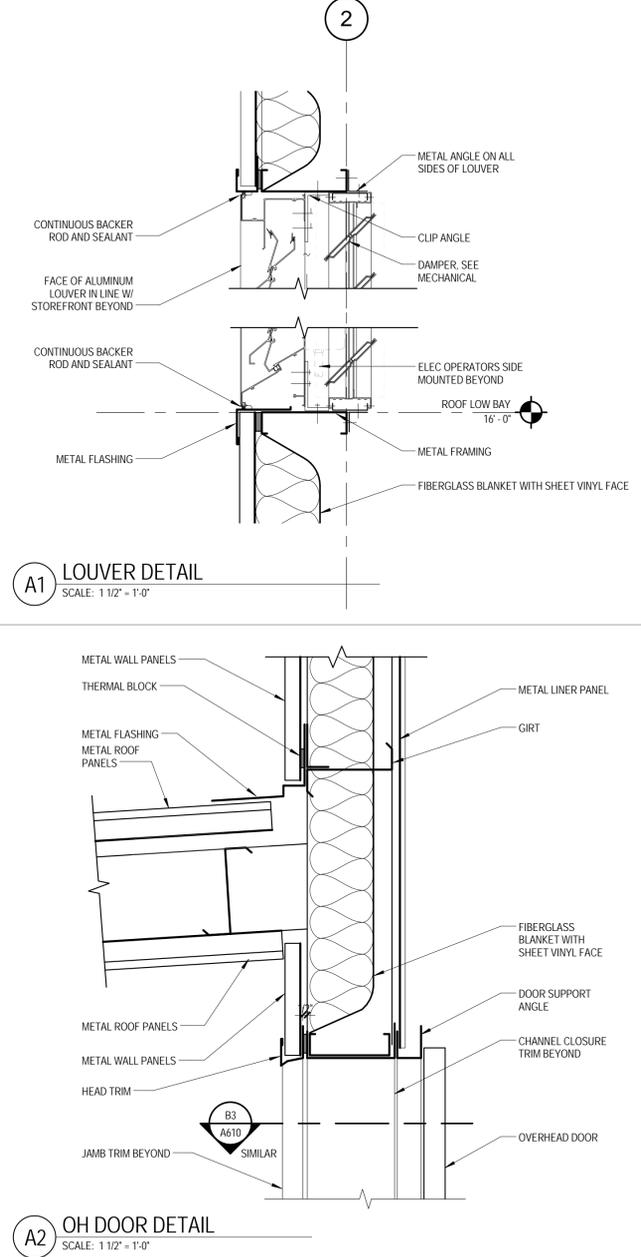
**C1** ROOF DETAIL  
SCALE: 1 1/2" = 1'-0"

**C2** EAVE DETAIL  
SCALE: 1 1/2" = 1'-0"



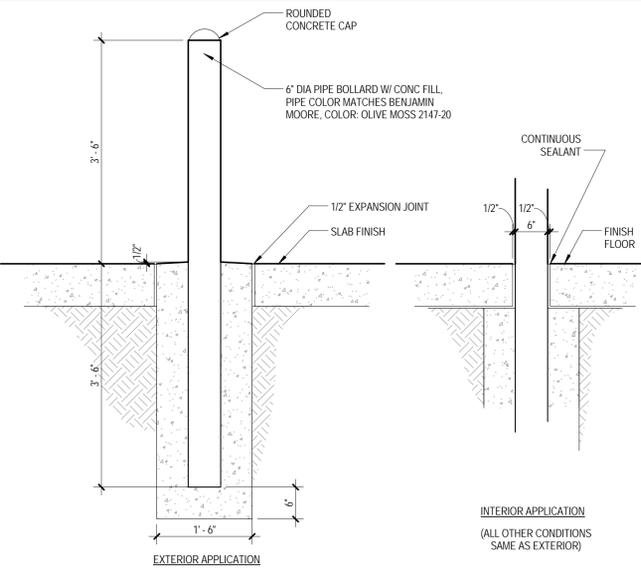
**B1** SECTION AT TRANSLUCENT PANEL  
SCALE: 1 1/2" = 1'-0"

**B2** OH DOOR HEAD DETAIL  
SCALE: 1 1/2" = 1'-0"

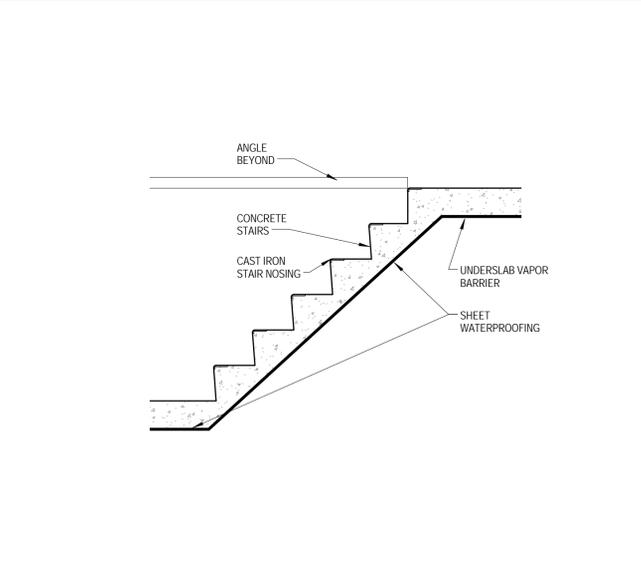


**A1** LOUVER DETAIL  
SCALE: 1 1/2" = 1'-0"

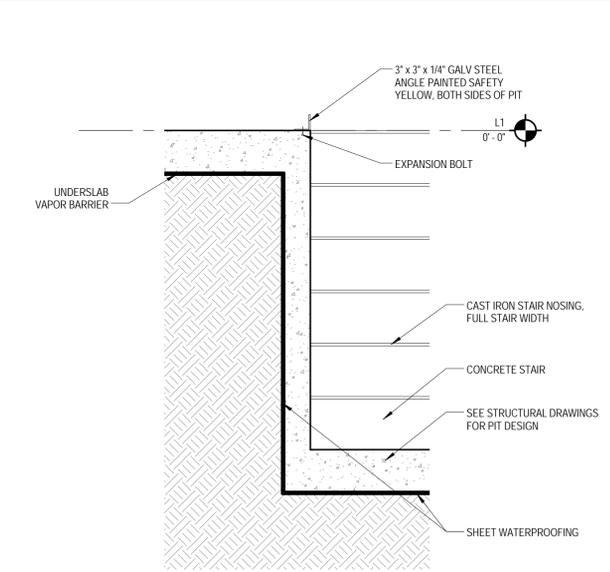
**A2** OH DOOR DETAIL  
SCALE: 1 1/2" = 1'-0"



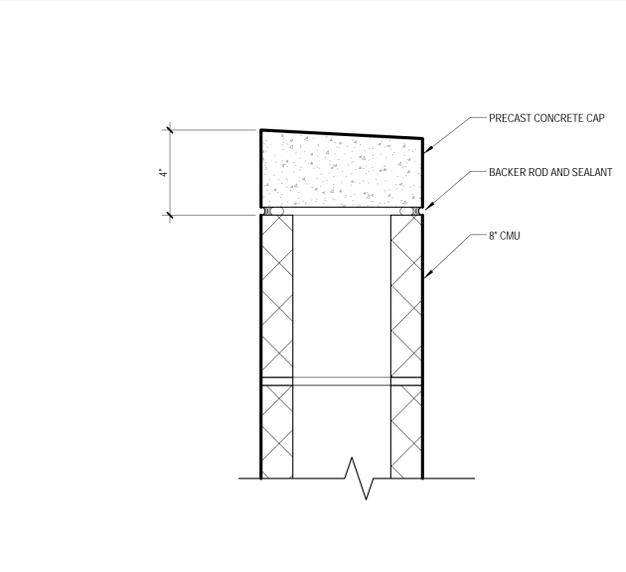
**A3** BOLLARD DETAIL  
SCALE: 3/4" = 1'-0"



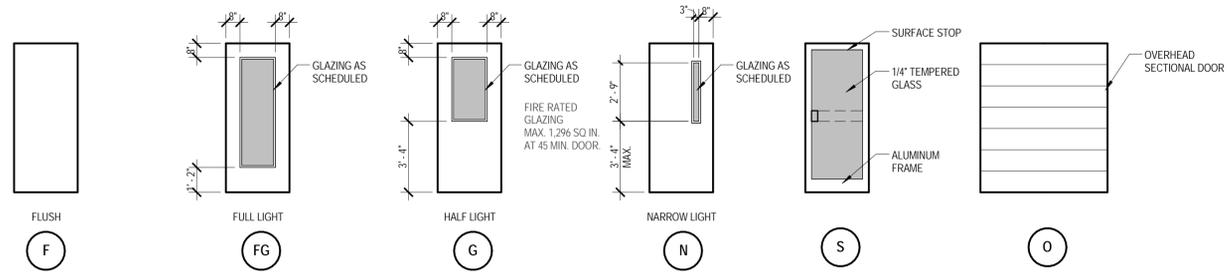
**B2** PIT STAIR SECTION  
SCALE: 1/2" = 1'-0"



**C3** PIT DETAIL  
SCALE: 3/4" = 1'-0"

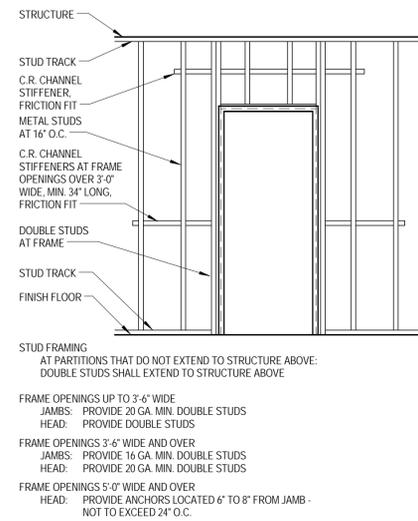


**D3** SECTION THRU CMU WALL  
SCALE: 3" = 1'-0"

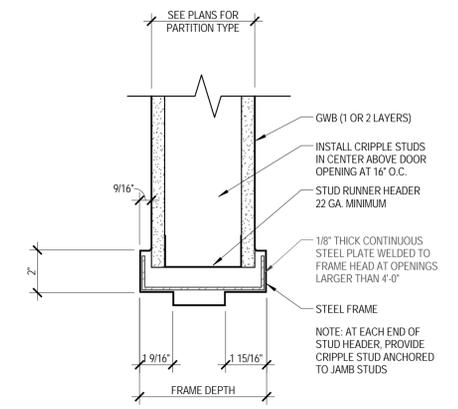


**A1** 08 DOOR - DOOR ELEVATIONS  
SCALE: 1/4" = 1'-0"

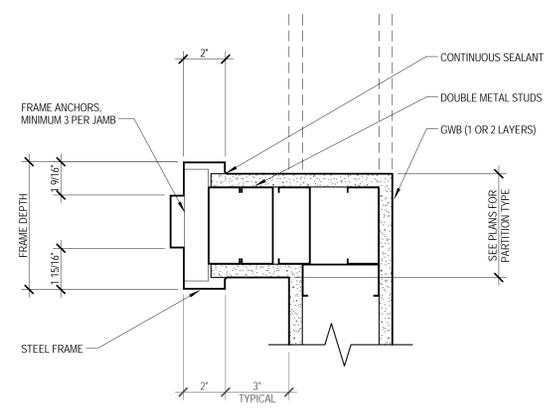
DOOR NUMBER	OPENING SIZE		DOOR ELEVATION	DOOR MAT'L	FRAME MATERIAL	FRAME DETAILS			HARDWARE SET	COMMENTS
	WIDTH	HEIGHT				HEAD	JAMB	THRESHOLD		
100	3'-0"	7'-0"	S	ALUM/GLS	ALUM				1.0	
101A	3'-0"	7'-0"	F	HM	HM	D1/A700	D2/A700		6.0	
101B	3'-0"	7'-0"	G	HM	HM	A3/A700	B3/A700		10.0	
103A	3'-0"	7'-0"	F	HM	HM	D1/A700	D2/A700		8.0	
103B	3'-0"	7'-0"	F	HM	HM	A3/A700	B3/A700		10.0	
104	3'-0"	7'-0"	F	HM	HM	D1/A700	D2/A700		9.0	
105	3'-0"	7'-0"	F	HM	HM	D1/A700	D2/A700		8.0	
106	3'-0"	7'-0"	F	HM	HM	D1/A700	D2/A700		7.0	
107	3'-0"	7'-0"	F	HM	HM	D1/A700	D2/A700		7.0	
110	3'-0"	7'-0"	F	HM	HM	D1/A700	D2/A700		11.0	CLOSER
111A	3'-0"	7'-0"	F	HM	HM	D1/A700	D2/A700		10.0	
112	3'-0"	7'-0"	F	HM	HM	D1/A700	D2/A700		7.0	
113	3'-0"	7'-0"	F	HM	HM	D1/A700	D2/A700		7.0	
114A	3'-0"	7'-0"	G	HM	HM	D1/A700	D2/A700		4.0	
114B	3'-0"	7'-0"	G	HM	HM	A3/A700	B3/A700		10.0	
115A	4'-0"	8'-0"	F	HM	HM	A3/A700	B3/A700		13.0	ALWAYS LOCKED FROM OUTSIDE
115B	3'-0"	7'-0"	F	HM	HM	D1/A700	D2/A700		8.0	
116	3'-0"	7'-0"	F	HM	HM	A4/A700	B3/A700		7.0	
117	3'-0"	7'-0"	F	HM	HM	A3/A700	B3/A700		12.0	
118	3'-0"	7'-0"	F	HM	HM	A3/A700	B3/A700		12.0	
120	12'-0"	12'-0"	O	HM	HM	B2/A621	B3/A610		2.0	
120A	3'-0"	7'-0"	F	HM	HM	A3/A700	B3/A700		3.0	
120B	3'-0"	7'-0"	F	HM	HM	A3/A700	B3/A700		3.0	
121	12'-0"	12'-0"	O	HM	HM	B2/A621	B3/A610		2.0	OPENING SIZE IS NOMINAL
122	12'-0"	12'-0"	O	HM	HM	B2/A621	B3/A610		2.0	OPENING SIZE IS NOMINAL
123	12'-0"	12'-0"	O	HM	HM	B2/A621	B3/A610		2.0	OPENING SIZE IS NOMINAL
124	12'-0"	12'-0"	O	HM	HM	B2/A621	B3/A610		2.0	OPENING SIZE IS NOMINAL
125	12'-0"	12'-0"	O	HM	HM	B2/A621	B3/A610		2.0	OPENING SIZE IS NOMINAL
125A	3'-0"	7'-0"	F	HM	HM	A3/A700	B3/A700		3.0	
126A	16'-0"	16'-0"	O	HM	HM	B2/A621	B3/A610		2.0	OPENING SIZE IS NOMINAL
126B	16'-0"	16'-0"	O	HM	HM	B2/A621	B3/A610		2.0	OPENING SIZE IS NOMINAL
127A	16'-0"	16'-0"	O	HM	HM	B2/A621	B3/A610		2.0	OPENING SIZE IS NOMINAL
127B	16'-0"	16'-0"	O	HM	HM	B2/A621	B3/A610		2.0	OPENING SIZE IS NOMINAL
128A	16'-0"	16'-0"	O	HM	HM	B2/A621	B3/A610		2.0	OPENING SIZE IS NOMINAL
128B	16'-0"	16'-0"	O	HM	HM	B2/A621	B3/A610		2.0	OPENING SIZE IS NOMINAL
129	3'-0"	7'-0"	F	HM	HM	A3/A700	B3/A700		3.0	
130	4'-0"	7'-0"							5.0	CHAIN LINK FENCE GATE



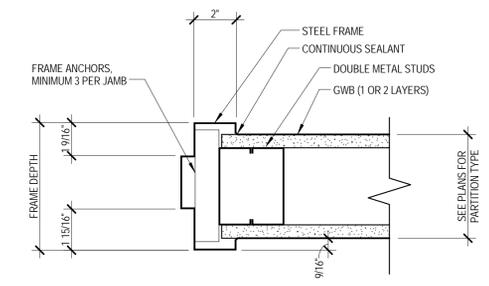
**C1** TYPICAL DOOR FRAMING  
SCALE: 3/8" = 1'-0"



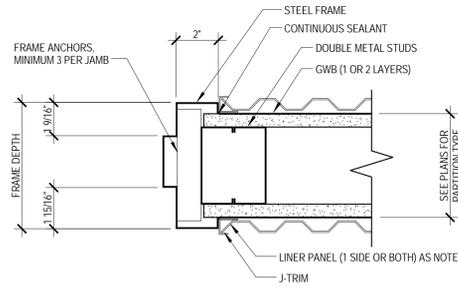
**D1** HM FRAME HEAD DETAIL  
SCALE: 3" = 1'-0"



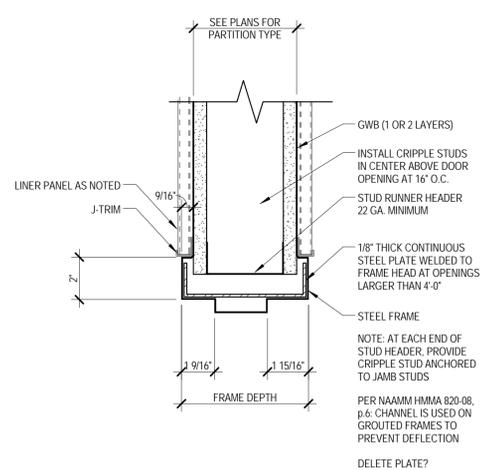
**C2** HM FRAME JAMB DETAIL  
SCALE: 3" = 1'-0"



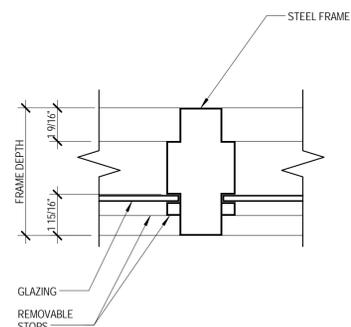
**D2** HM FRAME JAMB DETAIL  
SCALE: 3" = 1'-0"



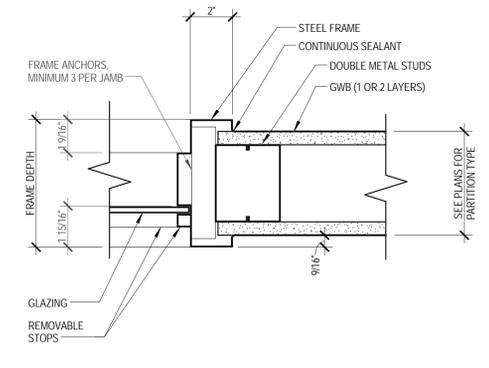
**A3** HM FRAME JAMB DETAIL AT LINER PANEL  
SCALE: 3" = 1'-0"



**B3** HM FRAME HEAD AT LINER PANEL DETAIL  
SCALE: 3" = 1'-0"



**C3** HM FRAME WINDOW MULLION DETAIL  
SCALE: 3" = 1'-0"



**D3** HM FRAME WINDOW JAMB DETAIL  
SCALE: 3" = 1'-0"

**brg3s**  
**architects**

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Website: www.ssr-inc.com

MECHANICAL, PLUMBING, & ELECTRICAL  
**IES**  
INNOVATIVE ENGINEERING SERVICES, LLC

Mark Date Description  
REVISIONS  
CLIENT

SHELBY COUNTY SUPPORT SERVICES  
584 ADAMS  
MEMPHIS, TENNESSEE 38103

PROJECT NAME  
**FIRE FLEET MAINTENANCE FACILITY**

Project No. 2015478  
Date Issued 02/19/2016  
Drawing Scale As indicated  
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DRAWING TITLE  
**DOOR SCHEDULE AND DETAILS**

SEALS  
**S. BRETT RAGSDALE**  
REGISTERED ARCHITECT  
STATE OF TENNESSEE  
02/19/16

SHEET ID CONSTRUCTION DOCUMENTS  
**A700**

2/19/2016 10:19:21 AM C:\Users\klaywood\Documents\5015178 Shelby County Fleet Services Building\_Klaywood.rvt

Mark	Date	Description
REVISIONS		

CLIENT  
 SHELBY COUNTY SUPPORT SERVICES  
 584 ADAMS  
 MEMPHIS, TENNESSEE 38103

PROJECT NAME  
**FIRE FLEET MAINTENANCE FACILITY**

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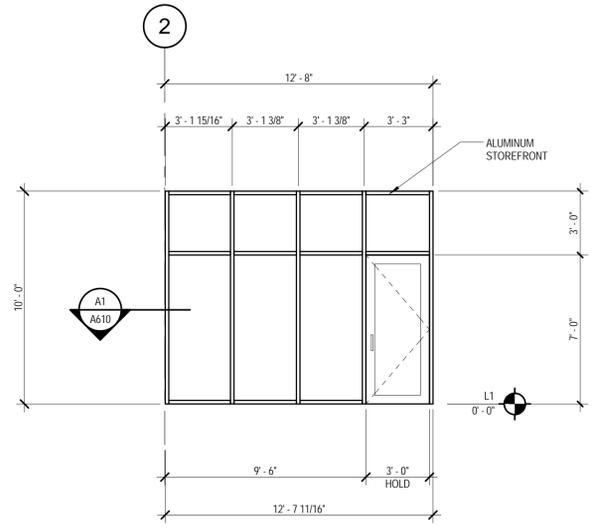
DRAWING TITLE  
**ALUMINUM STOREFRONT / INTERIOR H.M. ELEVATIONS**



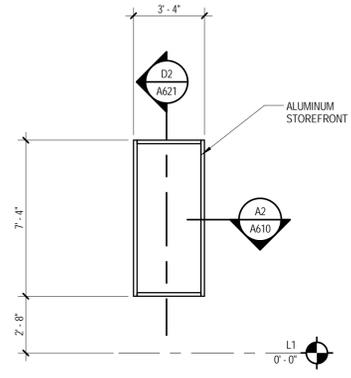
SHEET ID CONSTRUCTION DOCUMENTS

**GENERAL GLAZING NOTES:**

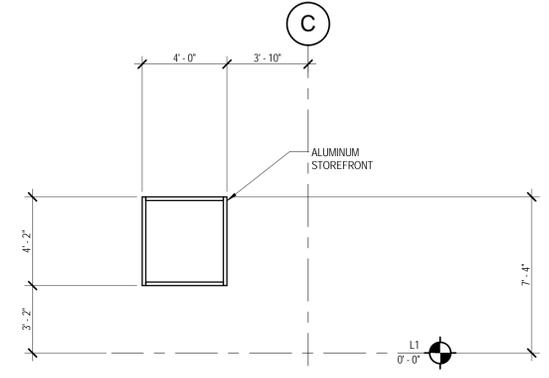
- ALL INTERIOR GLAZING SHALL BE S-1 UNLESS NOTED OTHERWISE.
- ALL EXTERIOR GLAZING SHALL BE IG-1, UNLESS NOTED OTHERWISE. REPLACE IG-1 WITH IG-T AT HAZARDOUS LOCATIONS.



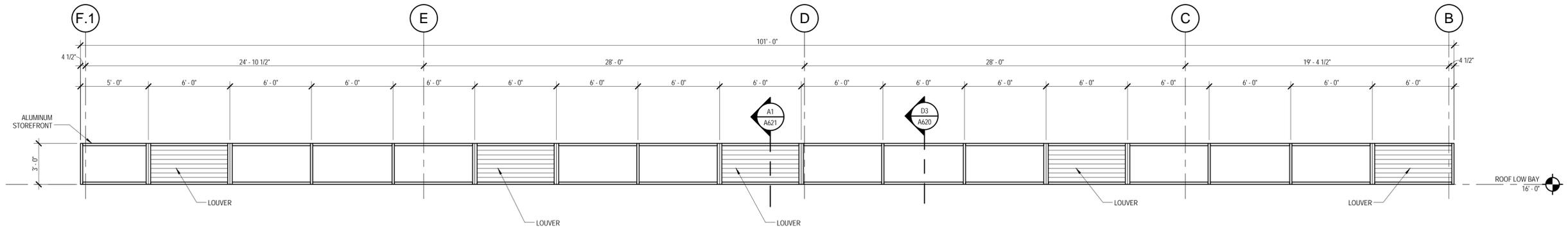
**A** EXTERIOR STOREFRONT\_100  
 SCALE: 1/4" = 1'-0"



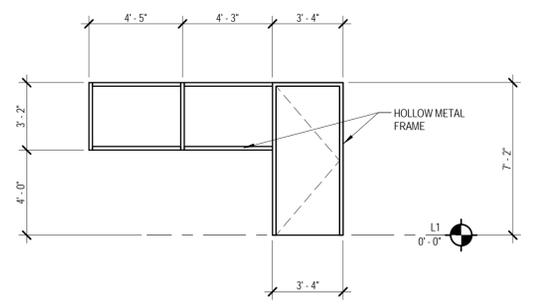
**B** EXTERIOR STOREFRONT  
 SCALE: 1/4" = 1'-0"



**C** EXTERIOR STOREFRONT\_111  
 SCALE: 1/4" = 1'-0"



**D** EXTERIOR STOREFRONT AND LOUVERS AT CLERESTORY  
 SCALE: 1/4" = 1'-0"



**E** H. M. FRAME AT OFFICE 103  
 SCALE: 1/4" = 1'-0"

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 MEMPHIS, TENNESSEE 38103

PROJECT NAME

**FIRE FLEET  
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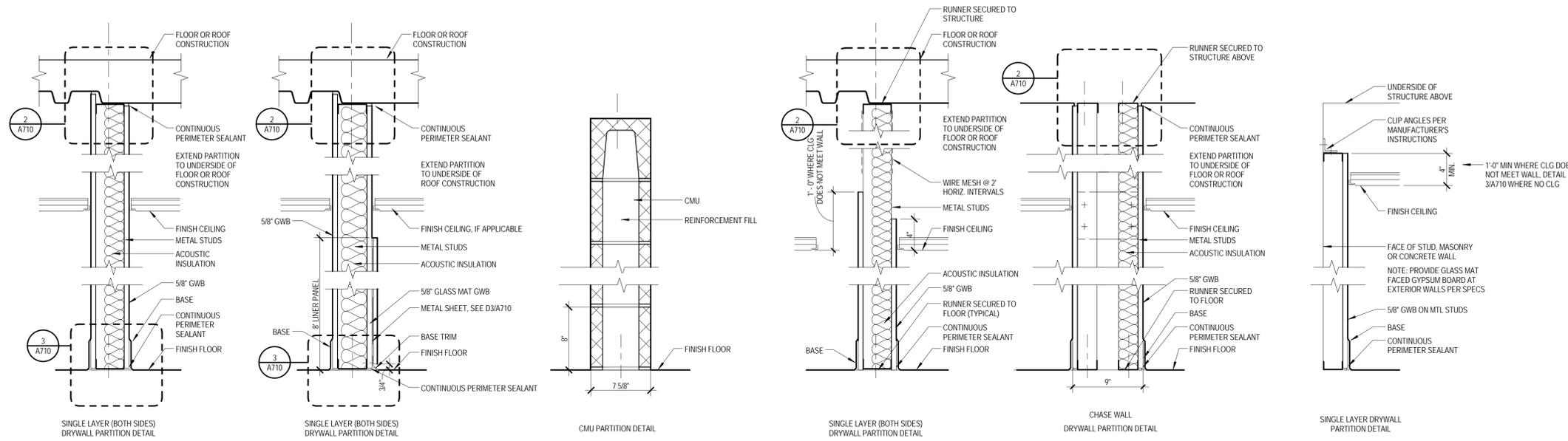
**PARTITION TYPES &  
 INTERIOR DETAILS**

SEALS



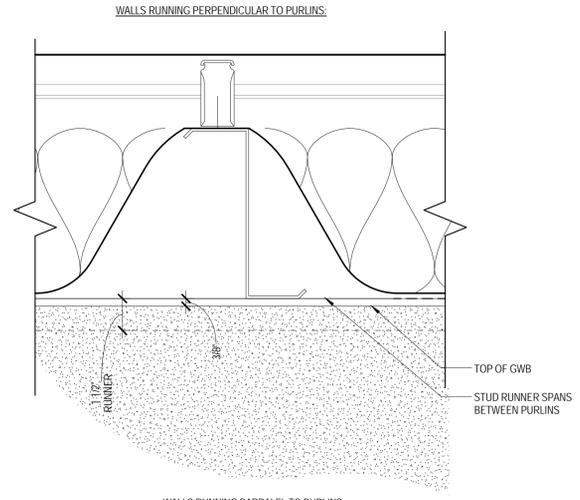
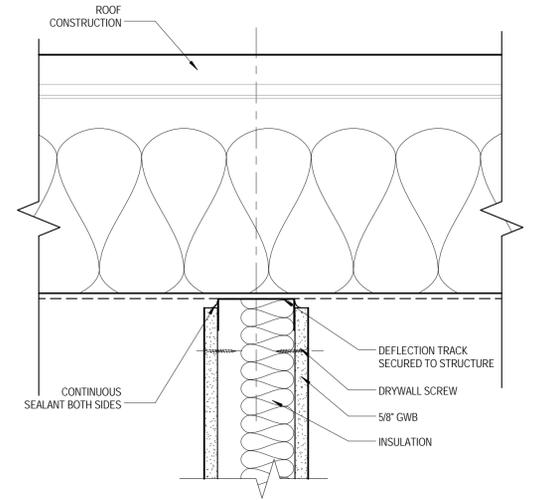
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CONSTRUCTION DOCUMENTS

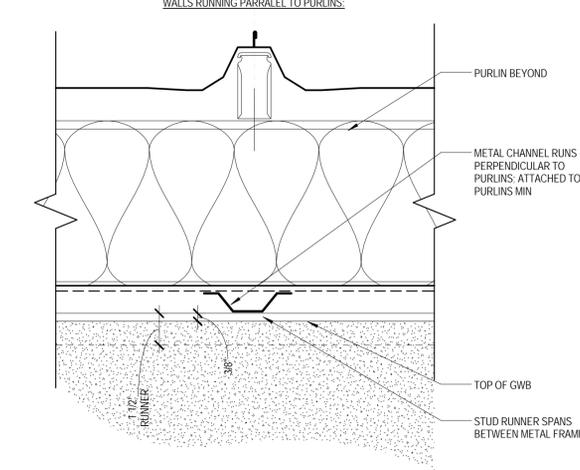
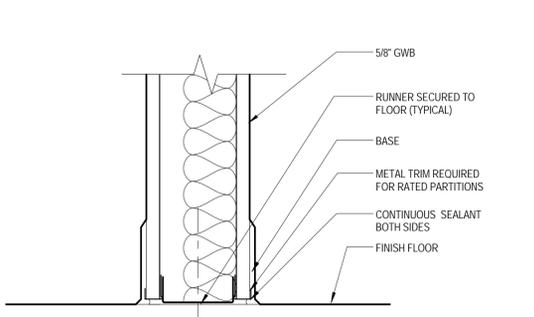


- TYPE A NON-RATED**  
 ONE LAYER 5/8" GWB EACH SIDE ON 3/8" METAL STUDS (STC 47)
- TYPE B NON-RATED**  
 ONE LAYER 5/8" GWB EACH SIDE ON 3/8" METAL STUDS (STC 47)
- TYPE C NON-RATED**  
 ONE LAYER 5/8" GWB AND WOOD SLATS AS SCHEDULED ON 7/8" CMU BLOCK
- TYPE D NON-RATED**  
 ONE LAYER 5/8" GWB EACH SIDE ON 3/8" METAL STUDS
- TYPE E NON-RATED**  
 ONE LAYER 5/8" GWB EACH SIDE ON 2 1/2" METAL STUDS (STC 47)
- TYPE F1 NON-RATED**  
 5/8" GWB ON 1 5/8" METAL STUDS
- TYPE F2 NON-RATED**  
 5/8" GWB ON 2 1/2" METAL STUDS
- TYPE F3 NON-RATED**  
 5/8" GWB ON 4" METAL STUDS
- TYPE F4 NON-RATED**  
 5/8" GWB ON 6" METAL STUDS

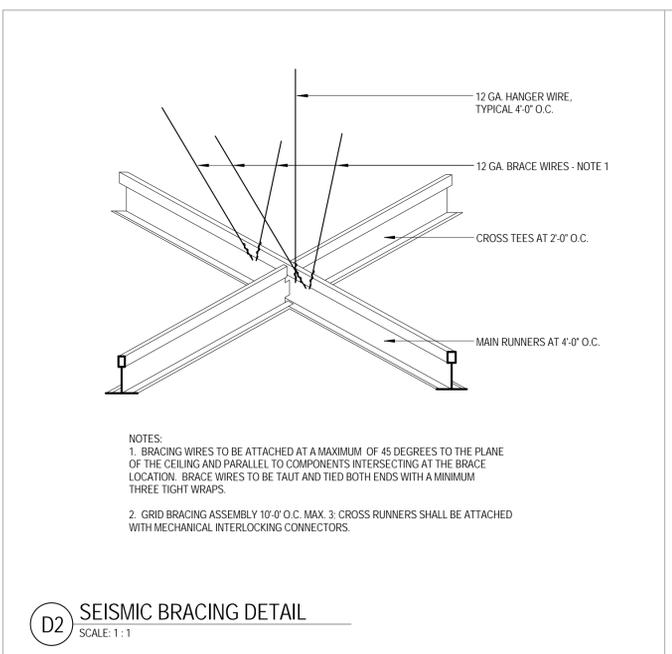
**1 PARTITION DETAILS**  
 SCALE: 1 1/2" = 1'-0"



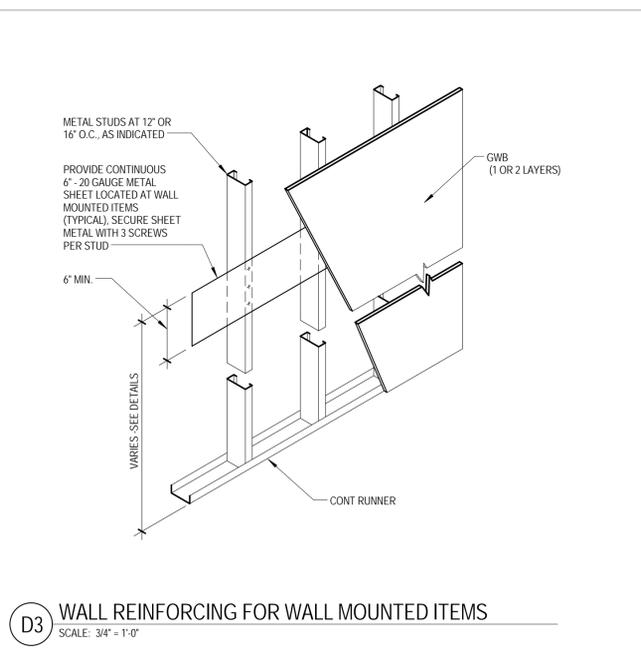
**2 TOP OF PARTITION DETAIL - NON-RATED**  
 SCALE: 3" = 1'-0"



**3 09 WALL - BOTTOM OF WALL DETAIL - NON-RATED**  
 SCALE: 3" = 1'-0"

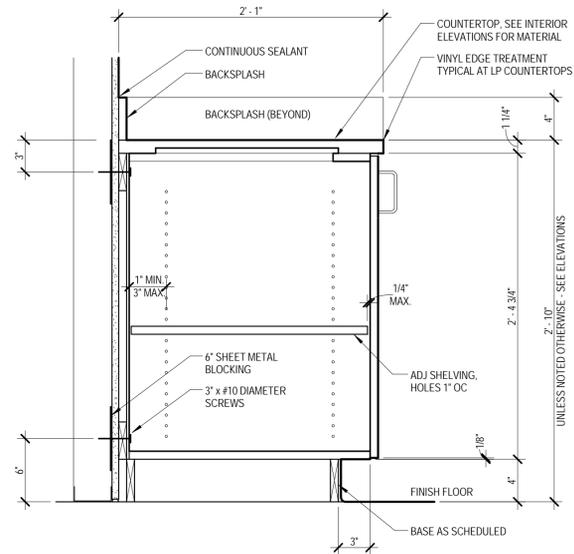


**D2 SEISMIC BRACING DETAIL**  
 SCALE: 1:1

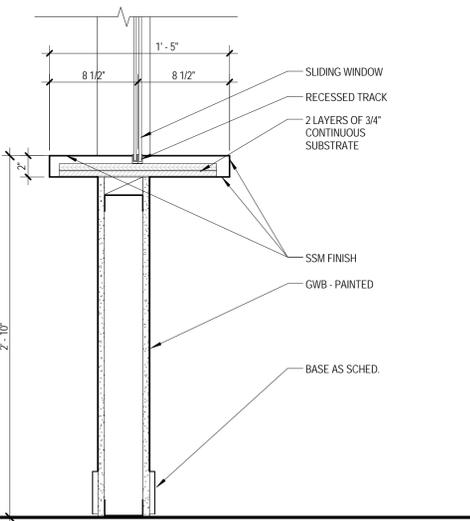
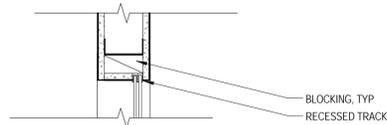


**D3 WALL REINFORCING FOR WALL MOUNTED ITEMS**  
 SCALE: 3/4" = 1'-0"

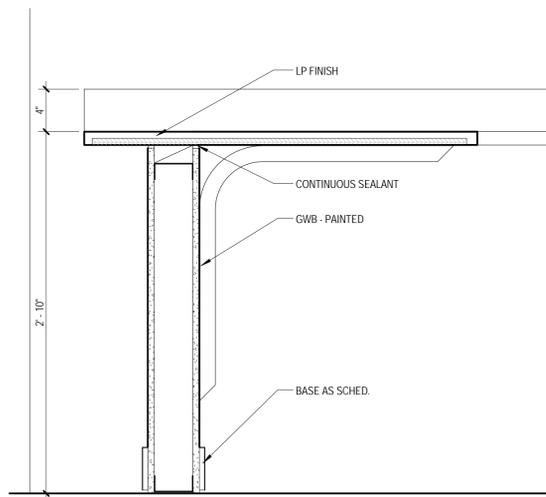




**A1** SECTION - BASE UNIT - NO DRAWER  
SCALE: 1 1/2" = 1'-0"

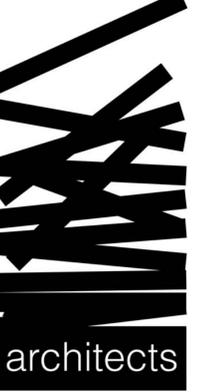


**A3** WAITING 100 - TRANSACTION TOP  
SCALE: 1 1/2" = 1'-0"



**B3** PARTS COUNTER  
SCALE: 1 1/2" = 1'-0"

**brg3s**



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INNOVATIVE • ENGINEERING  
SERVICES, LLC

Mark	Date	Description
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SHELBY COUNTY SUPPORT SERVICES  
584 ADAMS  
MEMPHIS, TENNESSEE 38103

PROJECT NAME

**FIRE FLEET  
MAINTENANCE  
FACILITY**

Project No. 2015478  
Date Issued 02/19/2016  
Drawing Scale 1 1/2" = 1'-0"  
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DRAWING TITLE

**CASEWORK DETAILS**

SEALS



SHEET ID

CONSTRUCTION  
DOCUMENTS

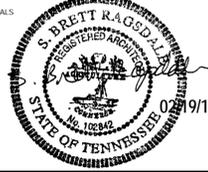
**A801**

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REVISIONS		
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SHELBY COUNTY SUPPORT SERVICES  
 584 ADAMS  
 MEMPHIS, TENNESSEE 38103

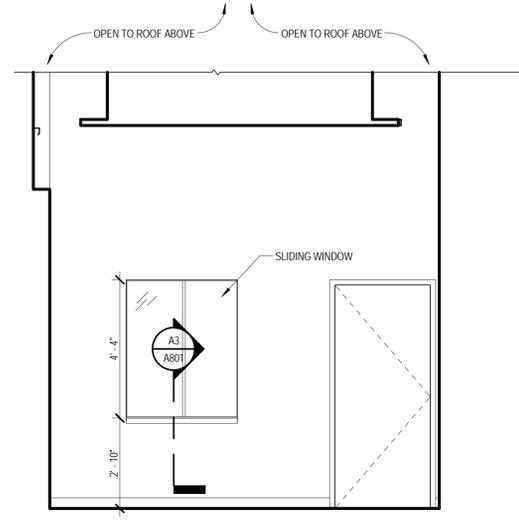
PROJECT NAME  
**FIRE FLEET  
 MAINTENANCE  
 FACILITY**  
 Project No. 2015478  
 Date Issued 02/19/2016  
 Drawing Scale 3/8" = 1'-0"  
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DRAWING TITLE  
**INTERIOR  
 ELEVATIONS**

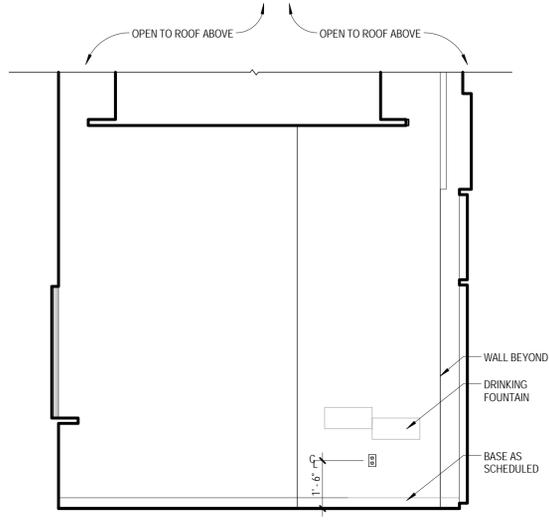


SHEET ID CONSTRUCTION DOCUMENTS

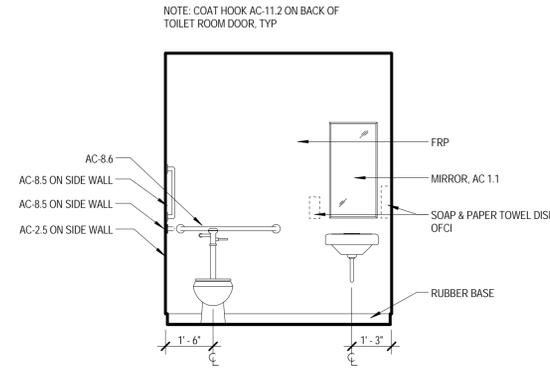
**A810**



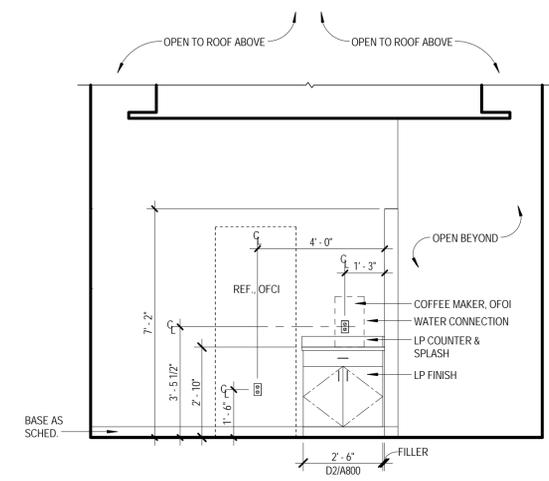
1 WAITING 100\_EAST  
 SCALE: 3/8" = 1'-0"



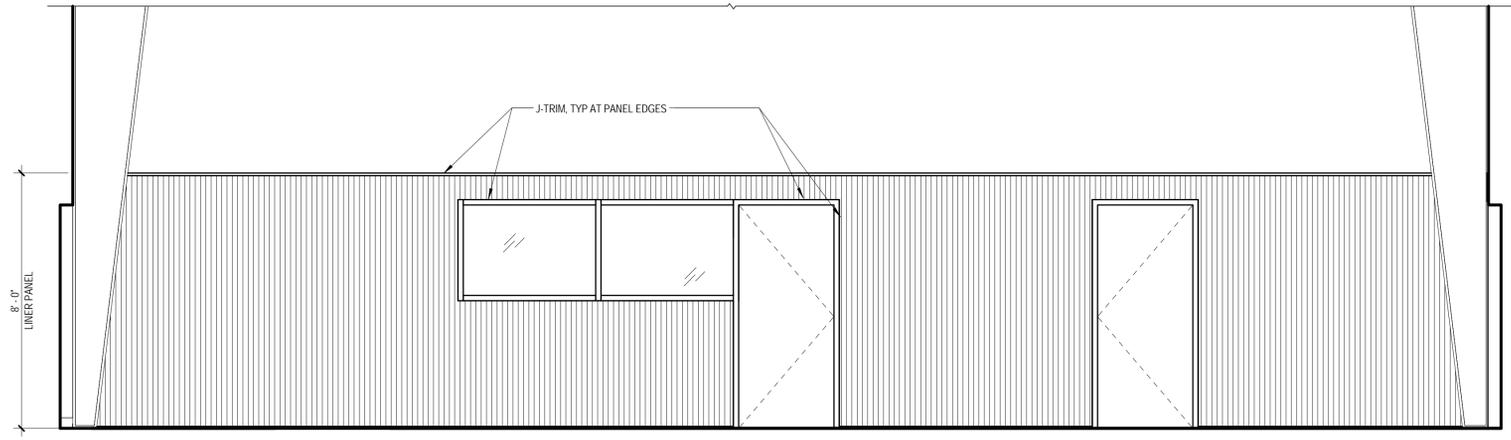
2 WAITING 100\_SOUTH  
 SCALE: 3/8" = 1'-0"



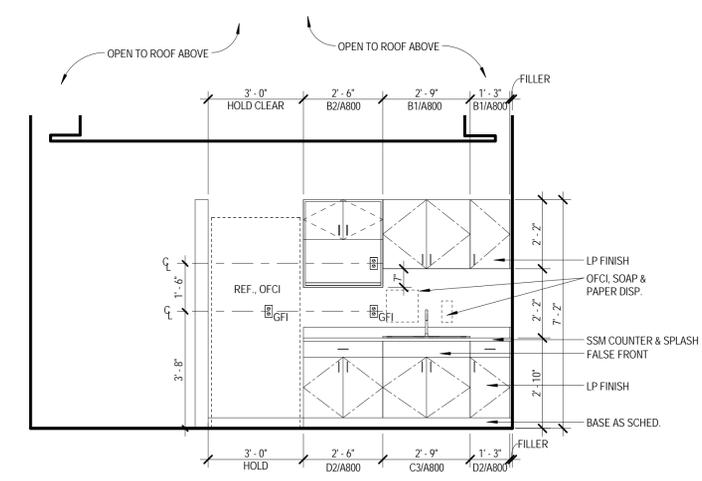
3 TOILET ROOM - WET WALL  
 SCALE: 3/8" = 1'-0"



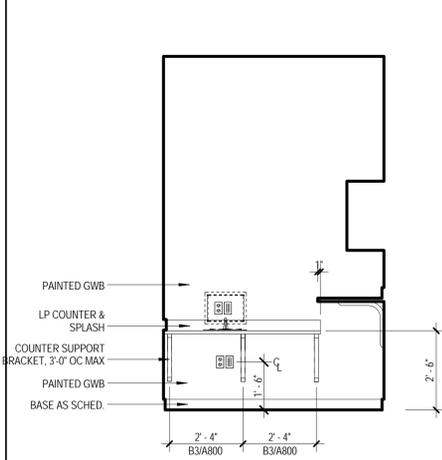
4 WORK ORDER OFFICE 101\_SOUTH  
 SCALE: 3/8" = 1'-0"



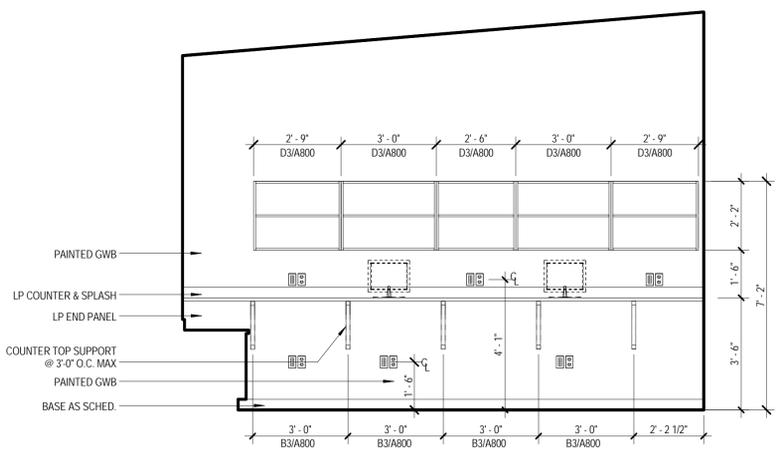
5 BAY 9\_120  
 SCALE: 3/8" = 1'-0"



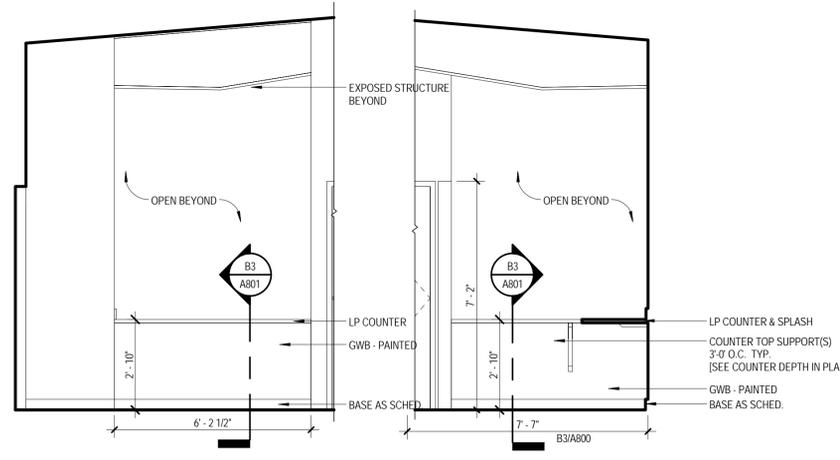
6 CONFERENCE/ BREAK ROOM 111  
 SCALE: 3/8" = 1'-0"



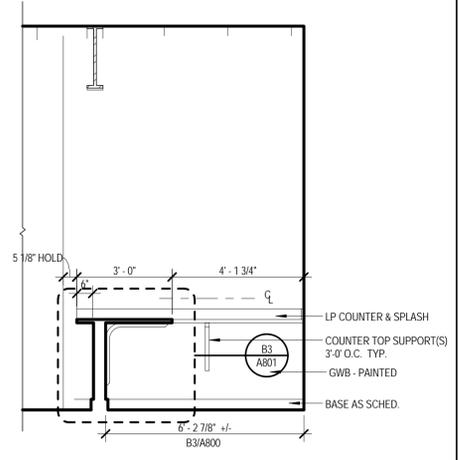
7 LIBRARY 110  
 SCALE: 3/8" = 1'-0"



8 LIBRARY 110  
 SCALE: 3/8" = 1'-0"



9 PARTS COUNTER 114\_EAST  
 SCALE: 3/8" = 1'-0"



11 PARTS SHOP 115\_NORTH  
 SCALE: 3/8" = 1'-0"

10 PARTS SHOP 115\_WEST  
 SCALE: 3/8" = 1'-0"

2/19/2016 10:19:25 AM C:\Users\klaywood\Documents\5015478 Shelby County Fleet Services Building\_klaywood.rvt

## FLOORCOVERING FINISH NOTES

### GENERAL FLOORCOVERING FINISH NOTES:

- FLOORCOVERING MATERIALS ARE IDENTIFIED ON BOTH THE ROOM FINISH SCHEDULE AND ON THE ATTACHED FLOORCOVERING DISTRIBUTION PLAN. THE COMPLEXITY OF FINISHES/MATERIALS ARE CLARIFIED ON THE DISTRIBUTION PLANS BY ONE OF THE SYMBOLS NOTED BELOW:

#### 1. SEALED CONCRETE FLOORING:

SCC (SEALED CONCRETE): AREAS DESIGNATED AS SCC SHALL BE AS FOLLOWS:

SPECIAL INSTRUCTIONS: PROVIDE CONTROL JOINTS AS INDICATED IN BLACK DASHED LINES ON FLOOR FINISH PLAN

SEALER: MNFG: ASHFORD FORMULA

#### 2. RUBBER BASE

AREAS DESIGNATED TO RECEIVE RUB SHALL BE AS FOLLOWS:

(RUB): MNFG: JOHNSONITE, SIZE: 4" WALL BASE, COLOR: CHARCOAL 20, STYLE: TRADITIONAL

## WALL FINISH NOTES

### GENERAL WALLCOVERING FINISH NOTES:

- WALL FINISH MATERIALS ARE IDENTIFIED ON BOTH THE ROOM FINISH SCHEDULE AND ON THE ATTACHED WALL FINISH DISTRIBUTION PLAN. THE COMPLEXITY OF FINISHES/MATERIALS ARE CLARIFIED ON THE DISTRIBUTION PLANS BY ONE OF THE SYMBOLS NOTED BELOW

#### WALL FINISH SYMBOL LEGEND:

○ PAINT DISTRIBUTION SYMBOL  
○ PAINT COLOR CODE

◇ LINER PANEL DISTRIBUTION SYMBOL  
◇ LINER PANEL COLOR CODE

▢ FRP DISTRIBUTION SYMBOL  
▢ FRP COLOR CODE



○ DENOTES  
COLOR ON ALL  
WALLS OF  
ROOM



○ DENOTES  
EXTENT OF  
COLOR/MATERIAL



○ DENOTES  
EXTENT OF COLOR/MATERIAL  
ABOVE



○ DENOTES  
COLOR/MATERIAL  
BELOW

#### 1. PAINT

NOTE: ALL PAINT SELECTIONS LISTED BELOW TO BE MATCHED TO MANUFACTURER FARRELL CALOUN.

PTD (PAINT): AREAS DESIGNATED AS PTD SHALL BE AS FOLLOWS:

FIELD COLOR: BENJAMIN MOORE, EGGSHELL FINISH, COLOR: PURE WHITE OC-64  
UNLESS DESIGNATED ON THE SCHEDULE/WALL FINISH PLAN TO RECEIVE ANOTHER COLOR/FINISH SELECTION AS ILLUSTRATED BY ONE OF THE SYMBOLS BELOW.

○ MNFG: BENJAMIN MOORE, COLOR: OLIVE MOSS 2147-20, FINISH: EGGSHELL TYP. - SEMI-GLOSS IN BAY(S), U.N.O.

○ MNFG: TBD, COLOR: TO MATCH LPN. (BELOW) - EXACT COLOR TBD, FINISH: TBD, U.N.O.

○ MNFG: FARRELL CALOUN, COLOR: 8796N BLACK METAL, FINISH: TBD, U.N.O., LOCATION: INTERIOR STRUCTURE - SEE ELEVATIONS FOR EXACT LOCATIONS.

SPECIAL INSTRUCTIONS: SEE WALL FINISH PLANS FOR ACCENT COLOR LOCATIONS.  
DOOR FRAMES TO BE SEMI-GLOSS - COLOR TO MATCH ADJACENT WALL.  
ALL RESTROOM WALLS TO BE (EPXY) FINISH - SEE BELOW.

#### 2. EPOXY WALL PAINT

EPXY (EPOXY): AREAS DESIGNATED AS EPXY SHALL BE AS FOLLOWS:  
FINISH: EPOXY, COLOR(S) AS SHOWN ON WALL FINISH PLAN

SPECIAL INSTRUCTIONS: TO BE WALL FINISH AT ALL RESTROOMS

#### 3. LINER PANEL

◇ LPN (LINER PANEL): AREAS DESIGNATED AS LPN SHALL RECEIVE THE FOLLOWING:  
MNFG: TBD, STYLE: TBD, COLOR: TBD

SPECIAL INSTRUCTIONS: SEE WALL FINISH PLAN FOR EXACT LOCATIONS  
SEE ELEVATIONS FOR HEIGHTS OF (LPN)  
NO RUB TO BE USED BELOW LINER PANEL, U.N.O.  
TO BE USED FROM FINISHED FLOOR TO 8'-0" - SEE ELEVATIONS FOR EXACT DIMS.

#### 4. FIBER REINFORCED POLYMER

▢ FRP (FIBER REINFORCED POLYMER): AREAS DESIGNATED AS FRP SHALL RECEIVE THE FOLLOWING:  
MNFG: CRANE COMPOSITS, COLOR: MORNING MIST GRAY (636)

SPECIAL INSTRUCTIONS: SEE WALL FINISH PLAN FOR EXACT LOCATIONS  
SEE ELEVATIONS FOR HEIGHTS LOCATIONS OF FRP  
SEE ELEVATIONS FOR SEAMING LOCATIONS OF FRP -- TBD  
TO BE USED FROM TOP OF RUBBER BASE TO CEILING - SEE ELEVATIONS FOR EXACT DIMS.

## CASEWORK FINISH NOTES

### GENERAL CASEWORK FINISH NOTES:

- CASEWORK FINISHES/MATERIALS IDENTIFIED BELOW. ALL WORK SURFACES TO BE LP FINISH UNLESS NOTED OTHERWISE IN ELEVATION(S).

#### 1. LP - (LAMINATED PLASTIC)

CASEWORK DESIGNATED TO RECEIVE LP SHALL BE AS FOLLOWS:

WORK SURFACES: FORMICA: COLOR FOLKSTONE 927-58 MATTE

VERTICAL SURFACES: FORMICA TERRIL 2297-MC - MICRODOT FINISH

#### 2. SSM - (SOLID SURFACE MATERIALS)

CASEWORK DESIGNATED TO RECEIVE SSM SHALL BE AS FOLLOWS:

MNFG: CORIAN SOLID SURFACING, COLOR: SILVER GRAY, FINISH: MATTE, EDGE: SEE ARCH. DWGS.

## MISCELLANEOUS FINISH NOTES

- INTERIOR CEILINGS DESIGNATED AS PTD SHALL BE FLAT CEILING WHITE UNLESS NOTED OTHERWISE.
- INTERIOR DOOR FRAMES DESIGNATED AS PTD SHALL BE PAINTED TO MATCH ADJACENT WALL, (AND ADJOINING DOOR FRAME), SEMI-GLOSS FINISH.
- EDGE BINDING TO BE USED ON MILLWORK COUNTER TOP EDGES & OPEN SHELF FRONTS - TO BE DOLLKEN WOODTAPE, COLOR: TBD.
- CONTRACTOR SHALL SUBMIT TO THIS OFFICE ACTUAL SAMPLES IN TRIPLICATE OF ALL COLORS, MATERIALS AND PATTERNS FOR DESIGNER'S VERIFICATION AND APPROVAL, NOT LATER THAN TWO (2) WEEKS FROM DATE OF CONTRACT. SIZE OF SAMPLES SHALL BE APPROXIMATELY 12"x12". SAMPLES SHALL BE PROPERLY LABELED BY PROJECT AND CODE AND SUBMITTED FOR APPROVAL PRIOR TO CONTRACTOR ORDERING MATERIAL.

## INTERIOR FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	COMMENTS
100	WAITING	SCC	RUB	PTD	ACT/EXP.	LPN TO 8' AFF - SEE ELEVATIONS
101	WORK ORDER OFFICE	SCC	RUB	PTD	ACT/EXP.	
102	CORR	SCC	RUB	PTD	EXP.	
103	MANAGER'S OFFICE	SCC	RUB	PTD	ACT/EXP.	
104	ELECTRICAL/ MECHANICAL/ STORAGE	SCC	RUB	PTD	EXP.	
105	ACCOUNTANT'S OFFICE	SCC	RU	PTD	ACT/ EXP.	
106A	TOILET	SCC	RUB	FRP/PTD - EPXY	GWB	
106B	STOR.	SCC	RUB	FRP/PTD - EPXY	GWB	
107	TOILET	SCC	RUB	FRP/PTD - EPXY	GWB	
110	LIBRARY	SCC	RUB	PTD	EXP.	
111	CONFERENCE/ BREAK ROOM	SCC	RUB	PTD	ACT	
112	M-TOILET	SCC	RUB	FRP/PTD - EPXY	GWB	
113	W-TOILET	SCC	RUB	FRP/PTD - EPXY	GWB	
114	PARTS COUNTER	SCC	RUB	PTD	EXP.	
115	PARTS SHOP	SCC	RUB/ N/A	LPN/PTD	EXP.	LPN TO 8'-0" AFF - SEE ELEVATIONS
116	TOILET	SCC	RUB	FRP/PTD - EPXY	GWB	
117	PLUMBING	SCC	N/A	PTD	EXP.	
118	MECH/ELEC	SCC	N/A	PTD	EXP.	
119	CORR	SCC	RUB	PTD	EXP.	
120	BAY 1	SCC	N/A	LPN/PTD	EXP.	LPN TO 8' AFF & PTD ABOVE - SEE ELEVATIONS
121	BAY 2	SCC	N/A	LPN/EXP.	EXP.	LPN TO 8' AFF - SEE ELEVATIONS
122	BAY 3	SCC	N/A	LPN/EXP.	EXP.	LPN TO 8' AFF - SEE ELEVATIONS
123	BAY 4	SCC	N/A	LPN/EXP.	EXP.	LPN TO 8' AFF - SEE ELEVATIONS
124	BAY 5	SCC	N/A	LPN/EXP.	EXP.	LPN TO 8' AFF - SEE ELEVATIONS
125	BAY 6 WELDING	SCC	N/A	LPN/EXP.	EXP.	LPN TO 8' AFF - SEE ELEVATIONS
126	BIG BAY 7 (OIL)	SCC	N/A	LPN/EXP.	EXP.	LPN TO 8' AFF - SEE ELEVATIONS
127	BIG BAY 8 (GANTRY)	ALT: SCC	ALT: N/A	ALT: LPN/ EXPOSED	ALT: EXP.	ALTERNATE: LPN TO 8' AFF - SEE ELEVATIONS
128	BIG BAY 9	SCC	N/A	LPN/EXP.	EXP.	LPN TO 8' AFF - SEE ELEVATIONS

Grand total: 28

### FINISH SCHEDULE NOTES:

- ALL FINISHES SPECIFIED FOR 'BIG BAY 2 (GANTRY) #127' TO BE PRICED AS ALTERNATE, (ALT).

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MECHANICAL, PLUMBING, & ELECTRICAL

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INNOVATIVE ENGINEERING  
SERVICES, LLC

Mark Date Description  
REVISIONS

CLIENT

SHELBY COUNTY SUPPORT SERVICES  
584 ADAMS  
MEMPHIS, TENNESSEE 38103

PROJECT NAME

FIRE FLEET  
MAINTENANCE  
FACILITY

Project No. 2015478  
Date Issued 02/19/2016  
Drawing Scale  
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DRAWING TITLE

INTERIOR FINISH  
INDEX AND  
SCHEDULE

SEALS



SHEET ID

CONSTRUCTION  
DOCUMENTS

ID100

Mark	Date	Description
REVISIONS		

CLIENT

SHELBY COUNTY SUPPORT SERVICES  
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 MEMPHIS, TENNESSEE 38103

PROJECT NAME

**FIRE FLEET MAINTENANCE FACILITY**

Project No. 2015478  
 Date Issued 02/19/2016  
 Drawing Scale 1/8" = 1'-0"  
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DRAWING TITLE

**FLOOR FINISH PLAN**

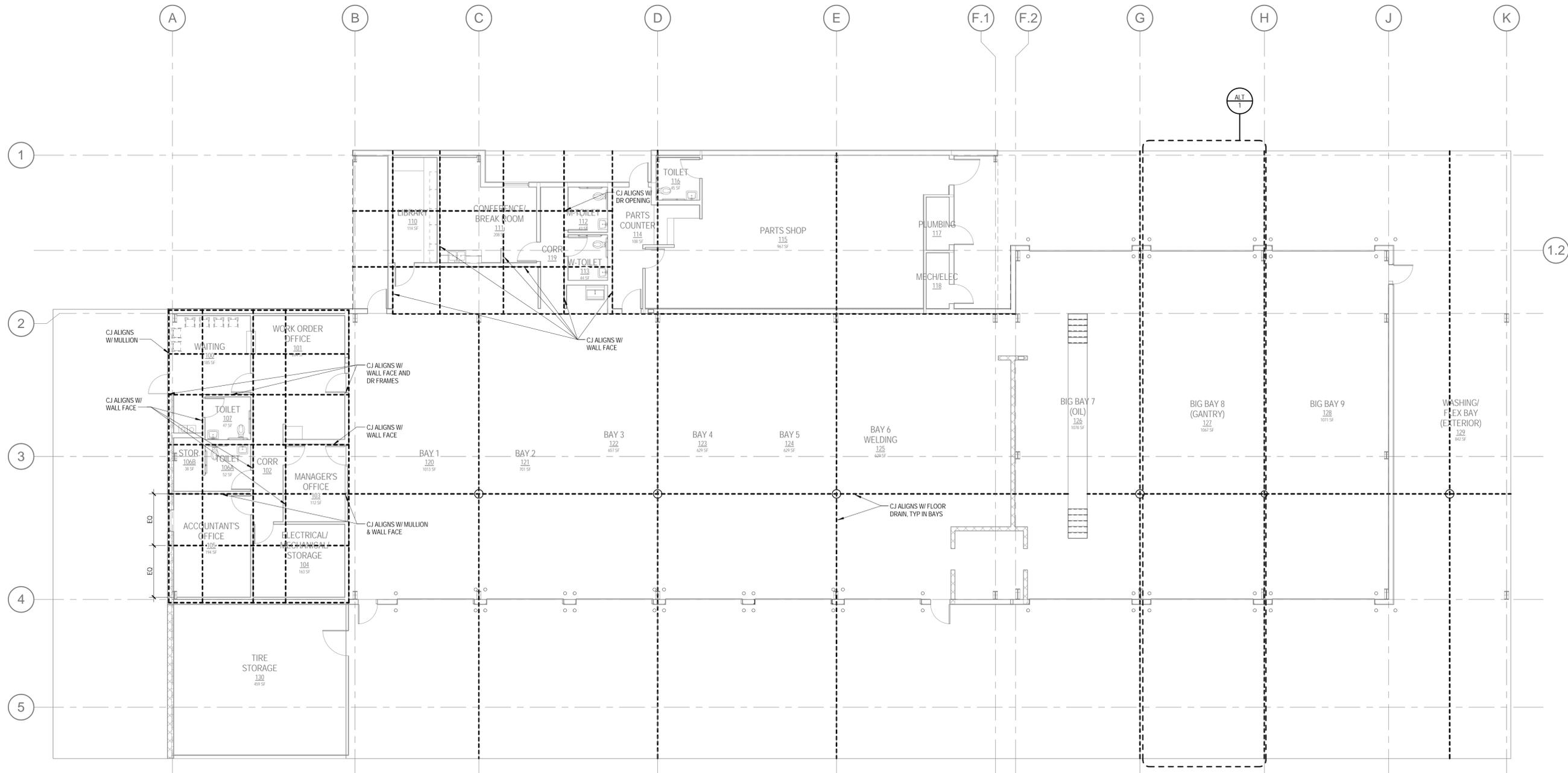
SEALS



SHEET ID CONSTRUCTION DOCUMENTS

**ID200.F**

NOTE: NOT ALL CONTROL JOINTS SHOWN; PROVIDE REMAINDER NEEDED IN SHOP DRAWINGS FOR REVIEW AND APPROVAL.



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

Mark	Date	Description
REVISIONS		

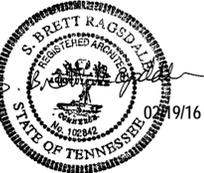
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PROJECT NAME  
**FIRE FLEET MAINTENANCE FACILITY**

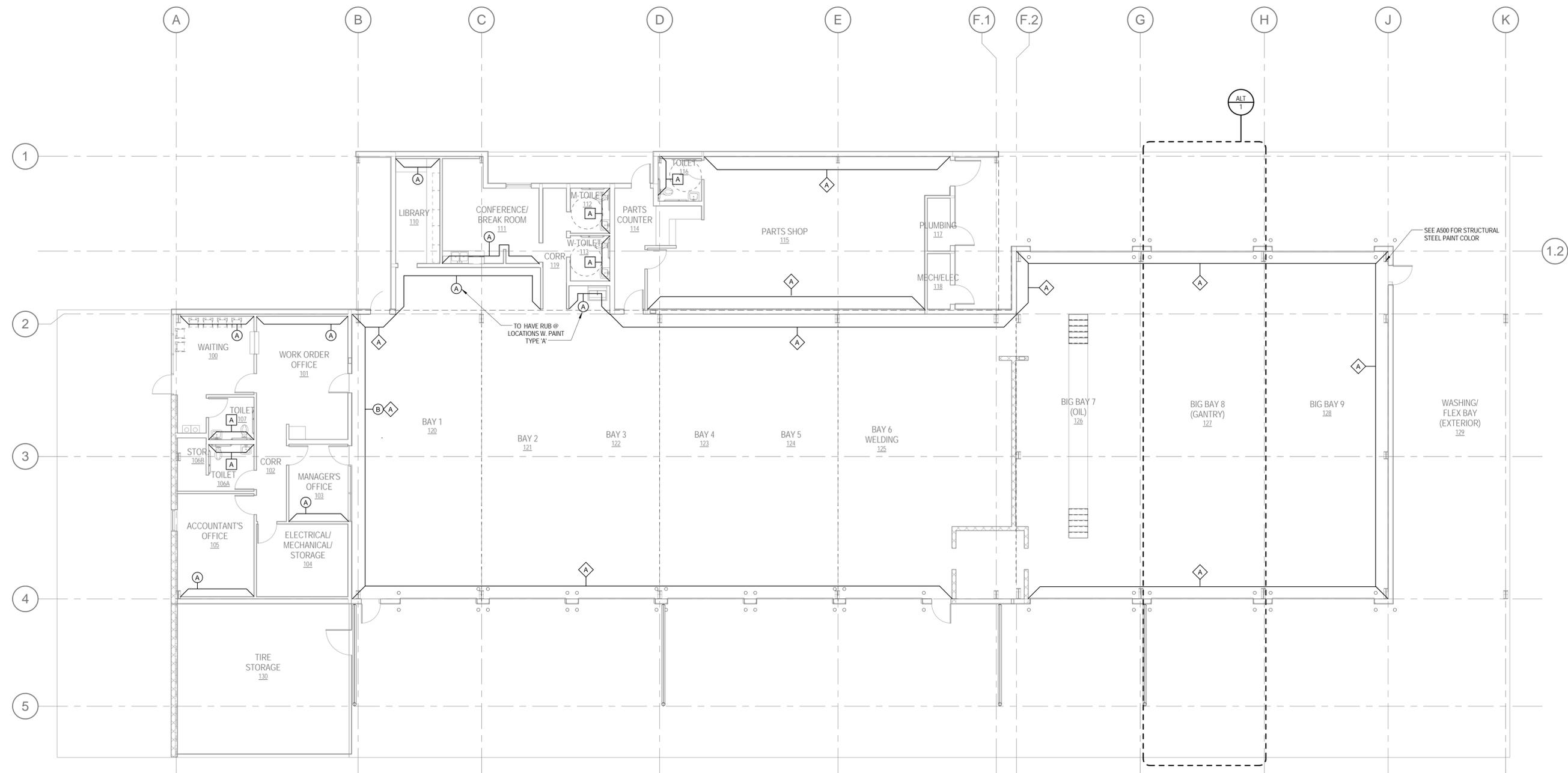
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DRAWING TITLE  
**WALL FINISH PLAN**



SHEET ID CONSTRUCTION DOCUMENTS

**ID200.W**



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

**GENERAL NOTES**

**DESIGN CRITERIA**

DESIGN PER INTERNATIONAL BUILDING CODE (2012)

DEAD LOADS:  
 ROOF : ..... SELF WEIGHT  
 ROOF COLLATERAL..... 5 PSF  
 LIVE LOADS: (REDUCIBLE AS APPLICABLE PER IBC 2012)  
 ROOFS AND CANOPIES: ..... 20 PSF

WIND LOADS: (ASCE 7-10)  
 BASIC WIND SPEED: ..... 115 MPH  
 EXPOSURE CATEGORY: ..... C

COMPONENTS & CLADDING PRESSURES: PER PEMB MANUFACTURER

SNOW LOADS:  
 GROUND SNOW LOAD: ..... 10 PSF  
 FLAT ROOF SNOW LOAD: ..... 10 PSF  
 EXPOSURE FACTOR Ce: ..... 0.9  
 IMPORTANCE FACTOR Ie: ..... 1.0  
 THERMAL FACTOR Ct: ..... 1.0

SEISMIC:  
 IMPORTANCE FACTOR IE: ..... 1.0  
 RISK CATEGORY: ..... III  
 MAPPED SPECTRAL RESPONSE ACCELERATION:  
 Ss = ..... 0.890  
 Si = ..... 0.314  
 SPECTRAL DESIGN COEFFICIENTS:  
 SDS ..... 0.679  
 SD1 ..... 0.371

SEISMIC FORCE RESISTING SYSTEM  
 RESPONSE MODIFICATION FACTOR (R): ..... PER PEMB MANUFACTURER  
 DEFLECTION AMPLIFICATION FACTOR (Cd): ..... PER PEMB MANUFACTURER  
 OVERSTRENGTH (Omega): ..... PER PEMB MANUFACTURER

SEISMIC BASE SHEAR: ..... PER PEMB MANUFACTURER  
 SEISMIC DESIGN CATEGORY: ..... D  
 SITE CLASSIFICATION: ..... D

CONCRETE (DESIGN PER CURRENT EDITION ACI 318)  
 SLAB ON GRADE: ..... Fc = 4000 PSI (MIN)  
 FOOTINGS: ..... Fc = 4000 PSI  
 ALL OTHER CONCRETE: ..... Fc = 3000 PSI

ALL REINFORCING STEEL ASTM A615 GRADE 60

ALL WELDED WIRE FABRIC ASTM A185

CONCRETE MASONRY (DESIGN PER CURRENT EDITION ACI 530)  
 COMPRESSIVE STRENGTH: ..... Fm = 2000 PSI

STRUCTURAL STEEL (DESIGN PER CURRENT EDITION AISC)  
 ALL WIDE FLANGE SECTIONS ASTM A992 GRADE 50  
 ALL PLATE AND BAR STOCK, ASTM A36

ALLOWABLE SOIL BEARING PER GEOTECHNICAL REPORT BY PSI INC., DATED 1-13-2016  
 SPREAD FOOTINGS: ..... 2200 PSF  
 STRIP FOOTINGS: ..... 1700 PSF

**GENERAL NOTES**

CONCRETE:  
 UNLESS NOTED OTHERWISE (UNO) ON THE DRAWINGS, MINIMUM COVER FOR REINFORCING SHALL BE AS FOLLOWS:  
 FOOTINGS: ..... 3"  
 SLABS AND WALLS:  
 EXPOSED TO EARTH LIQUID OR WEATHER: ..... 2"  
 NOT EXPOSED TO EARTH LIQUID OR WEATHER: ..... 3/4"  
 SLABS ON GRADE: ..... 2" FROM TOP

ALL REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONFORMANCE W/ THE CRSI MANUAL OF STANDARD PRACTICE AND ACI 315 DURING THE PLACING OF THE CONCRETE.

UNLESS NOTED OTHERWISE, SPLICES IN REINFORCING, WHERE PERMITTED, SHALL BE AS FOLLOWS:

WELDED WIRE FABRIC: ..... SPACING PLUS 6"				
REINFORCING BARS: No. 5 & Smaller				
f <sub>c</sub>	l <sub>d</sub>	tension lap	l <sub>d</sub>	tension lap
3000	44*d <sub>b</sub>	57*d <sub>b</sub>	55*d <sub>b</sub>	71*d <sub>b</sub>
4000	38*d <sub>b</sub>	50*d <sub>b</sub>	48*d <sub>b</sub>	62*d <sub>b</sub>
5000	34*d <sub>b</sub>	44*d <sub>b</sub>	43*d <sub>b</sub>	55*d <sub>b</sub>

ALL HOOKS IN REINFORCING BARS SHALL BE ACI STANDARD HOOKS, U.N.O.

DOWELS FROM FOUNDATIONS OR SLABS TO WALLS SHALL MATCH WALL REINFORCING, UNLESS NOTED OTHERWISE. DOWELS SHALL BE PLACED BEFORE CONCRETE IS POURED. DOWELS SHALL NOT BE PUSHED INTO THE CONCRETE.

PROVIDE 3/4" CHAMFER AT ALL EXPOSED CORNERS OF BEAMS, WALLS, SLABS, ETC.

PROVIDE 1/2" PRE-MOLDED EXPANSION JOINT MATERIAL WHERE SLAB ON GRADE IS POURED AROUND COLUMNS AND AGAINST GRADE BEAMS OR WALLS, UNLESS OTHERWISE SHOWN OR NOTED.

MASONRY:  
 ALL LOAD BEARING WALLS AND EXTERIOR WALLS SHALL BE COMPOSED OF ASTM C90 LIGHTWEIGHT HOLLOW CONCRETE MASONRY UNITS WITH ASTM C270, TYPE "S" MORTAR.

SEE THIS SHEET OR MASONRY REINFORCING SCHEDULE AND DETAILS.

LAP VERTICAL BARS PER LAP SPLICE SCHEDULE ON S001, TIE LAPS WITH WIRE TIES.

GROUT ALL CELLS SOLID BELOW FINISHED GRADE.

PROVIDE HORIZONTAL TRUSS-TYPE JOINT REINFORCEMENT IN WALLS AT 16" O.C. VERTICALLY UNO. IN ADDITION, INSTALL JOINT REINFORCING IN THE FIRST TWO MORTAR JOINTS ABOVE AND BELOW OPENINGS, EXTENDING AT LEAST 24 INCHES BEYOND THE OPENING. PROVIDE HORIZONTAL JOINT REINFORCEMENT IN PARAPETS AND FREE STANDING WALLS AT 8" O.C. VERTICALLY. LAP JOINT REINFORCEMENT 6" MINIMUM.

16" U-BLOCK OR BOND BEAM SHALL CONSIST OF AN 8" U-BLOCK UNDER A KNOCK-OUT BLOCK.

SPECIAL INSPECTION SHALL BE REQUIRED IN ACCORDANCE WITH IBC 2009 CHAPTER 17. SEE PROJECT MANUAL.

FOUNDATIONS:  
 IF FOOTING ELEVATIONS SHOWN OCCUR IN A DISTURBED, UNSUITABLE, OR UNSTABLE SOIL, THE ENGINEER SHALL BE NOTIFIED.

STEPS IN WALL FOOTINGS SHALL NOT EXCEED A SLOPE OF ONE (1) VERTICAL TO TWO (2) HORIZONTAL.

PROVIDE A MINIMUM OF TWO #4 BARS IN TOP OF CONTINUOUS WALL FOOTINGS AT DOOR AND OTHER OPENINGS, 4'-0" LONGER THAN THE OPENING, U.N.O.

STEEL:  
 ALL BOLTS SHALL BE 3/4 INCH DIAMETER (ASTM A325N) UNLESS NOTED OTHERWISE.  
 ANCHOR BOLTS ASTM F1554, GRADE 36  
 WELDED STUDS ASTM A108  
 DEFORMED BAR ANCHORS ASTM A706

PROVIDE 1" NON SHRINK GROUT UNDER COLUMN BASE PLATE UNO. WHERE MINIMUM BASEPLATE WIDTH EXCEEDS 12" ADD 1/8" TO MINIMUM GROUT THICKNESS PER 2" WIDTH EXCEEDING 12".

SUPPLEMENTARY NOTES:  
 PROVIDE ALL TEMPORARY BRACING, GUYING OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. THE STRUCTURE SHOULD NOT BE CONSIDERED STABLE UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN CONSTRUCTED.

THE STRUCTURAL ENGINEER SHALL NOT HAVE CONTROL OR BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES OR SEQUENCES. FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, OR ANY OTHER PERSONS PERFORMING THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR EMBEDS, OPENINGS, SLEEVES, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS.

ALL STRUCTURAL OPENINGS AROUND OR AFFECTED BY MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT SHALL BE VERIFIED WITH EQUIPMENT PURCHASED BEFORE PROCEEDING WITH STRUCTURAL WORK AFFECTED.

ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN ENGINEER REGISTERED IN THE STATE OF THE PROJECT.

GENERAL CONTRACTOR MUST REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMITTAL TO ARCHITECT/ENGINEER. SUBMITTALS WHICH DO NOT CONTAIN THE CONTRACTORS SHOP DRAWING OR STAMP OR HAVE BEEN MERELY "RUBBER STAMPED" SHALL BE RETURNED WITHOUT REVIEW.

PEMB REFERS TO PRE ENGINEERED METAL BUILDING.

PRE-ENGINEERED METAL BUILDINGS:  
 METAL BUILDING COMPONENTS SHALL BE DESIGNED IN ACCORDANCE WITH THE MBMA MANUAL AND THE APPLICABLE BUILDING CODE INCLUDING BUT NOT LIMITED TO THE LOADS LISTED UNDER "DESIGN LOADS".

PEMB MANUFACTURER TO SUPPLY SIGNED AND SEALED CALCULATIONS.

FOUNDATION/FOOTINGS DESIGN BASED ON PRELIMINARY REACTIONS AND ARE SUBJECT TO CHANGE PENDING FINAL REACTIONS PROVIDED BY PEMB MANUFACTURER. CASTING FOUNDATION PRIOR TO STRUCTURAL ENGINEER'S RECEIPT OF FINAL REACTIONS IS AT CONTRACTOR'S RISK.

**FOOTING SCHEDULE**

MARK	SIZE (LxWxD)	REINFORCING
W48	CONT.X4'-0"x1'-0"	5 #5 CONT. W/ #5x3'-6" TRANSVERSE @ 12"
W78	CONT.X6'-6"x1'-6"	8 #6 CONT. W/ #6x6'-0" TRANSVERSE @ 12"
F72	6'-0"x6'-0"x1'-2"	6#6x5'-6" BOTT. EA. WAY
F78	6'-6"x6'-6"x1'-3"	7#6x6'-0" BOTT. EA. WAY

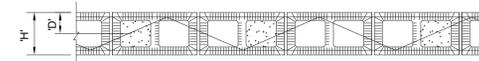
**MASONRY LAP SPLICE LENGTHS**

BAR SIZE	MINIMUM LAP SPLICE LENGTH, IN. (mm)
#3 (#10)	12 (305)
#4 (#13)	15 (381)
#5 (#16)	23 (584)
#6 (#19)	43 (1092)

**MASONRY WALL REINFORCING SCHEDULE**

WALL TYPE	'H' 'D'	VERTICAL STEEL**	HORIZONTAL STEEL	GROUT
8" WALL	8" 4"	#5 @ 16" O.C.	1-#5 @ 4'-0" O.C. (@ BOND BEAM) & STD. CONT. TRUSS REINF. @ 16" O.C.	ALL CELLS

NOTES:  
 PROVIDE VERTICAL JOINTS AT MAXIMUM 20'-0" OR AS SHOWN ON PLAN.  
 REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND TYPES OF CMU WALL TYPES.  
 \*'H' & 'D' ARE NOMINAL DIMENSIONS.  
 STD. CONT. REINF. IS #9 DEFORMED SIDE & TRUSS WIRE.  
 PROVIDE #5 VERTICAL BARS (FULL HEIGHT & FULLY GROUTED) ON EACH SIDE OF ALL OPENINGS.  
 \*\*SECURE WALL DEFINED PER ARCHITECTURAL DRAWINGS.  
 \*\*\*USE MORE STRINGENT VERTICAL STEEL REQUIREMENTS BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS.



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MECHANICAL, PLUMBING & ELECTRICAL



INNOVATIVE ENGINEERING  
 SERVICES, LLC

Mark	Date	Description
REVISIONS		

CLIENT

SHELBY COUNTY SUPPORT SERVICES  
 584 ADAMS  
 MEMPHIS, TENNESSEE 38103

PROJECT NAME

**FIRE FLEET  
 MAINTENANCE  
 FACILITY**

Project No. 2015478  
 Date Issued: 2/9/2016  
 Drawing Scale: 1/2" = 1'-0"  
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DRAWING TITLE

**GENERAL NOTES**

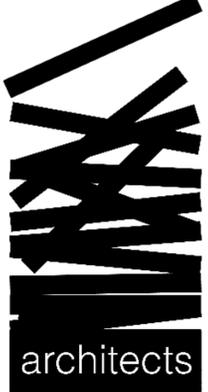
SEALS



CONSTRUCTION DOCUMENTS

SHEET ID

**S001**



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MECHANICAL, PLUMBING, & ELECTRICAL

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 INNOVATIVE ENGINEERING  
 SERVICES, LLC

Mark Date Description  
 REVISIONS

CLIENT

SHELBY COUNTY SUPPORT SERVICES  
 584 ADAMS  
 MEMPHIS, TENNESSEE 38103

PROJECT NAME

**FIRE FLEET  
 MAINTENANCE  
 FACILITY**

Project No. 2015478  
 Date Issued 2/9/2016  
 Drawing Scale 12" = 1'-0"  
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DRAWING TITLE

**SPECIAL INSPECTION  
 NOTES**



CONSTRUCTION DOCUMENTS

SHEET ID

**S002**

STATEMENT OF SPECIAL INSPECTIONS
THIS STATEMENT OF SPECIAL INSPECTIONS IS SUBMITTED AS REQUIRED FOR BUILDING PERMIT ISSUANCE IN ACCORDANCE WITH THE SPECIAL INSPECTION AND STRUCTURAL TESTING REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE. THIS STATEMENT OF SPECIAL INSPECTIONS IS ONLY FOR THE STRUCTURAL PORTION OF THE WORK. REFER TO OTHER DISCIPLINES FOR OTHER SPECIAL INSPECTION REQUIREMENTS FOR THIS PROJECT.
THE OWNER OR REGISTERED DESIGN PROFESSIONAL IN CHARGE (ARCHITECT) ACTING AS THE OWNERS AGENT SHALL EMPLOY ONE OR MORE AGENCIES APPROVED BY THE BUILDING OFFICIAL TO PERFORM INSPECTION DURING CONSTRUCTION. THESE INSPECTIONS ARE IN ADDITION TO SECTION 110 OF THE IBC. CONTRACTOR IS RESPONSIBLE TO ENSURE THE INSPECTOR IS PRESENT WHERE WORK REQUIRES PERIODIC OR CONTINUOUS INSPECTION.
<b>RESPONSIBILITIES OF THE SPECIAL INSPECTOR</b>
THE INSPECTOR SHALL KEEP RECORDS OF ALL INSPECTIONS AND SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. DISCOVERED DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF SUCH DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. A FINAL REPORT DOCUMENTING ALL THE REQUIRED SPECIAL INSPECTIONS AND TESTING, AND CORRECTION OF ANY DISCREPANCIES NOTED PREVIOUSLY SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO ISSUANCE OF A CERTIFICATE OF USE AND OCCUPANCY.
<b>FABRICATIONS</b>
SPECIAL INSPECTIONS OF THE FABRICATION PROCESS SHALL NOT BE REQUIRED WHERE FABRICATION OF STRUCTURAL LOAD BEARING MEMBERS AND ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF A FABRICATOR IS REGISTERED AND APPROVED TO PERFORM THE WORK WITHOUT SPECIAL INSPECTIONS. AT THE COMPLETION OF THE FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL.
THE SPECIAL INSPECTIONS ARE IN ADDITION TO THE MATERIAL TESTING AND INSPECTIONS LISTED IN THE CONTRACT SPECIFICATIONS. CONTRACTOR IS TO COORDINATE SPECIAL INSPECTIONS, MATERIAL SPECIFIC TESTING AND INSPECTIONS WITH THE OWNER FURNISHED SPECIAL INSPECTOR MATERIAL TESTING LABS.
THE SPECIAL INSPECTIONS INDICATED HEREIN DO NOT RELIEVE THE CONTRACTOR FROM THEIR RESPONSIBILITIES. CONTRACTOR SHALL PAY FOR ANY ADDITIONAL TESTING OR INSPECTION REQUIRED FROM WORK OR MATERIALS NOT IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.
<b>THE STATEMENT OF SPECIAL INSPECTIONS INCLUDES REQUIRED VERIFICATION AND INSPECTION OF THE FOLLOWING SECTIONS:</b>
1. CONCRETE CONSTRUCTION
2. SOILS
3. MASONRY CONSTRUCTION
<b>COMPONENTS PART OF THE MAIN WIND FORCE RESISTING SYSTEM AND SUBJECTED TO SPECIAL INSPECTIONS FOR WIND RESISTANCE:</b>
<b>COMPONENTS PART OF THE MAIN SEISMIC FORCE RESISTING SYSTEM AND SUBJECTED TO SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE:</b>
<b>AISC 360-10: SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS</b>

TABLE 1705.3, REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION				
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	---	X	ACI 318: 3.5, 7.1-7.7	1910.4
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2.2, ITEM 2B.	---	---	AWS D1.4 ACI 318:3.5.2	---
3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	---	X	ACI 318:8.1.3, 21.2.8	1908.5, 1909.1
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS	---	X	ACI 318: 3.8.6, 8.1.3, 21.2.8	1909.1
5. VERIFYING USE OF REQUIRED DESIGN MIX	---	X	ACI 318: CH. 4.5.2-5.4	1904.2, 1910.2, 1910.3
6. AT THE TIME OF FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	---	ASTM C172 ASTM C31 ACI 318: 5.6, 5.8	1910.10
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	---	ACI 318: 5.9, 5.10	1910.6, 1910.7, 1910.8
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	---	X	ACI 318: 5.11-5.13	1910.9
9. INSPECTION OF PRESTRESSED CONCRETE:				
A. APPLICATION OF PRESTRESSING FORCES.	X	---	ACI 318: 18.20 ACI 318: 18.18.4	---
B. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC FORCE-RESISTING SYSTEM.	X	---		---
10. ERECTION OF PRECAST CONCRETE MEMBERS.	---	X	ACI 318: CH. 16	---
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	---	X	ACI 318: 6.2	---
12. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	---	X	ACI 318: 6.1.1	---

*** USE THIS FOR OCCUPANCY I, II, AND III ***						
TABLE 1704.5.1, LEVEL 1 INSPECTION OF CONCRETE MASONRY CONSTRUCTION						
VERIFICATION AND INSPECTION	FREQUENCY		REFERENCE FOR CRITERIA			
	CONTINUOUS	PERIODIC				
1. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:						
A. PROPORTIONS OF SITE-PREPARED MORTAR.	---	X	---	---	---	ART. 2.6A
B. CONSTRUCTION OF MORTAR JOINTS.	---	X	---	---	---	ART. 3.3B
C. LOCATION OF REINFORCEMENT, CONNECTORS, PRESTRESSING TENDONS, AND ANCHORAGES.	---	X	---	---	---	ART. 3.4, 3.6A
D. PRESTRESSING TECHNIQUE.	---	X	---	---	---	ART. 3.6B
E. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.	---	X	---	---	---	ART. 2.4B, 2.4H
2. THE INSPECTION PROGRAM SHALL VERIFY:						
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.	---	X	---	---	---	ART. 3.3G
B. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.	---	X	---	---	---	SEC. 1.2.2(E), 2.1.4, 3.1.6
C. SPECIFIED SIZE, GRADE, AND TYPE OF REINFORCEMENT.	---	X	---	---	---	SEC. 1.13 ART. 2.4, 3.4
D. WELDING OF REINFORCING BARS.	---	X	---	---	---	SEC. 2.1.10.7.2, 3.3.3.4(B)
E. PROTECTION OF MASONRY DURING COLD WEATHER (BELOW 40°) OR HOT WEATHER (ABOVE 90°).	---	X	---	---	---	SEC. 2104.3, 2104.4 ART. 1.8C, 1.8D
F. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.	---	X	---	---	---	ART. 3.6B
3. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:						
A. GROUT SPACE IS CLEAN.	---	X	---	---	---	ART. 3.2D
B. PLACEMENT OF REINFORCEMENT AND CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES.	---	X	---	---	---	SEC. 1.13 ART. 3.4
C. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.	---	X	---	---	---	ART. 2.6B
D. CONSTRUCTION OF MORTAR JOINTS.	---	X	---	---	---	ART. 3.3B
4. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS.	X	---	---	---	---	ART. 3.5
A. GROUTING OF PRESTRESSING BONDED TENDONS.	X	---	---	---	---	ART. 3.6C
5. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS SHALL BE OBSERVED.	X	---	---	---	---	SEC. 2105.2.2, 2105.3 ART. 1.4
6. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.	---	X	---	---	---	ART. 1.5

TABLE 1705.6, REQUIRED VERIFICATION AND INSPECTION OF SOILS		
VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	---	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	---	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	---	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	---
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	---	X

Mark	Date	Description
REVISIONS		

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**SHELBY COUNTY SUPPORT SERVICES**  
 584 ADAMS  
 MEMPHIS, TENNESSEE 38103

PROJECT NAME

**FIRE FLEET  
 MAINTENANCE  
 FACILITY**

Project No. 2015478  
 Date Issued 2/9/2016  
 Drawing Scale 3/32" = 1'-0"  
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DRAWING TITLE

**FOUNDATION PLAN**

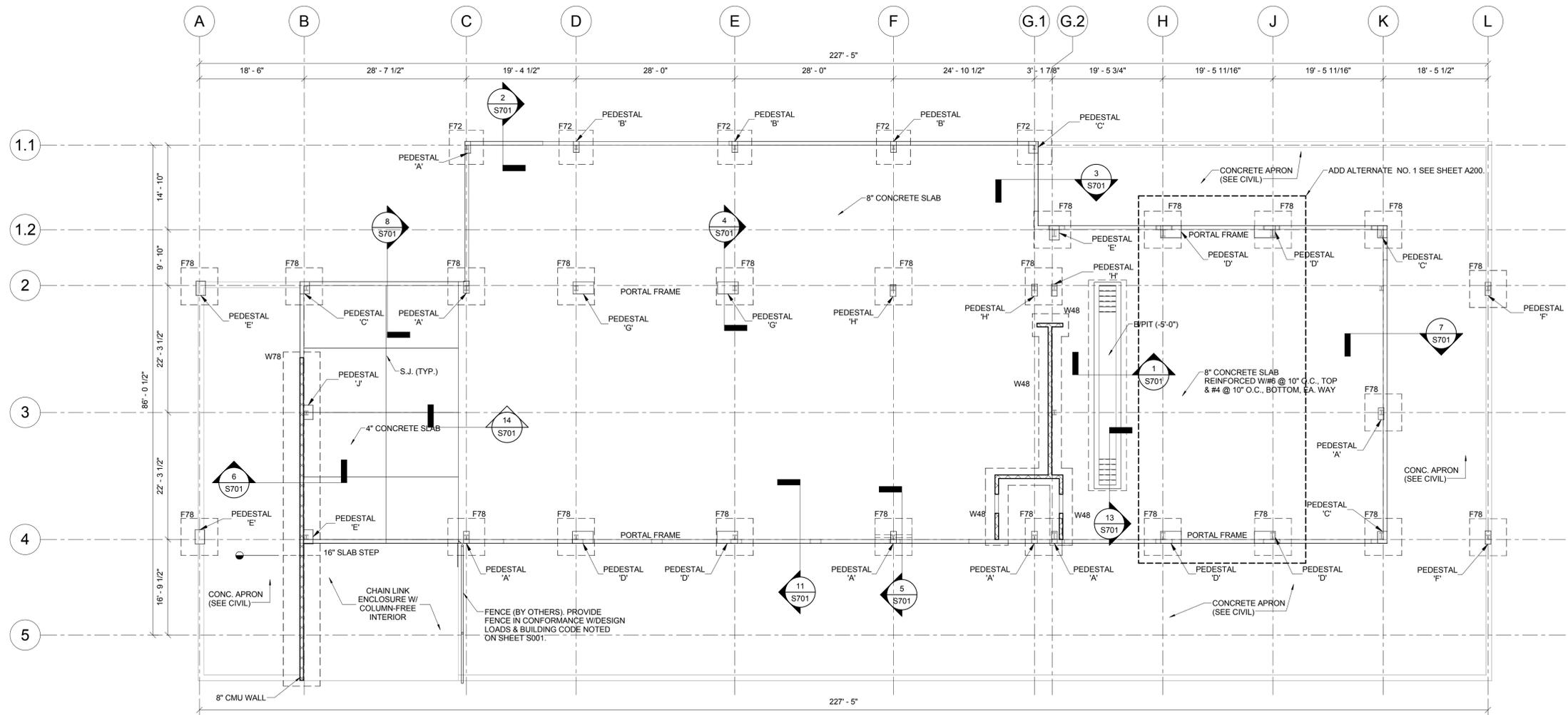
SEALS



**CONSTRUCTION  
 DOCUMENTS**

SHEET ID

**S100**



1 FOUNDATION PLAN  
 3/32" = 1'-0"

**NOTES:**

1. F.F.E. = 0'-0" CORRELATES TO EL. 268.25'.
2. SEE SHEET S001 FOR GENERAL NOTES.
3. SEE SHEET S002 FOR SPECIAL INSPECTION REQUIREMENTS.
4. PEDESTAL "X" REFERS TO A PEDESTAL TYPE. SEE SHEET S700 FOR PEDESTAL DETAILS.
5. NO SAW JOINTS SHALL BE PLACED IN THE 8" SLAB.
6. 4" SLAB ON GRADE SHALL HAVE SAW JOINTS @ 12'-0" MAX. SLAB PANELS BOUND BY SAW JOINTS SHALL BE LESS THAN 2:1 RATIO.
7. SEE S001 FOR MASONRY WALL REINFORCING SCHEDULE.
8. SEE S001 FOR MASONRY REINFORCING LAP SPLICE.
9. "WXX" & "FXX" DENOTES FOOTING SIZE. SEE S001 FOR FOOTING SCHEDULE.
10. T/FTG. = 1'-2" BELOW FINISH FLOOR, U.N.O.
11. COORDINATE JOINT LOCATIONS W/ID200.F.

Mark	Date	Description
REVISIONS		

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SHELBY COUNTY SUPPORT SERVICES  
 584 ADAMS  
 MEMPHIS, TENNESSEE 38103

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FIRE FLEET  
 MAINTENANCE  
 FACILITY

Project No. 2015478  
 Date Issued 2/9/2016  
 Drawing Scale 1 1/2" = 1'-0"  
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DRAWING TITLE

PEDESTAL DETAILS

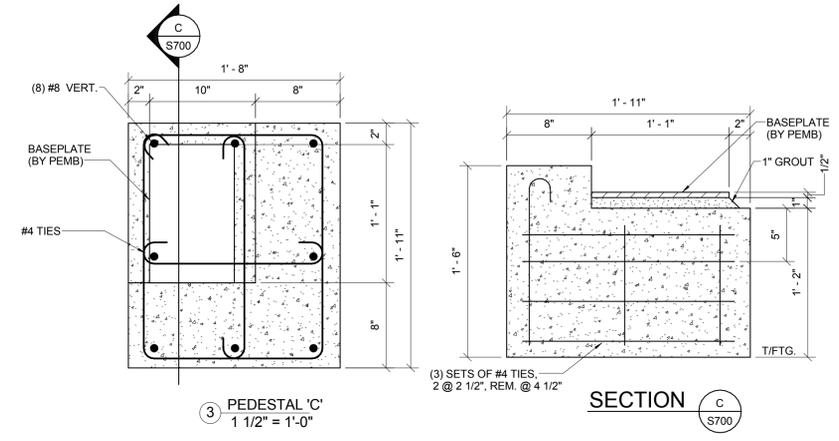
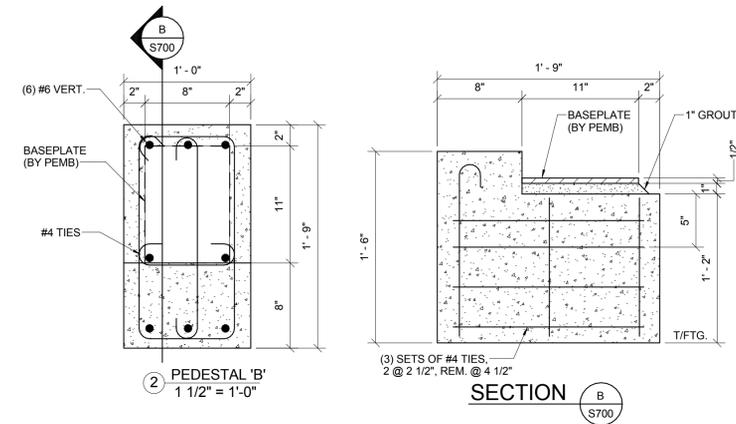
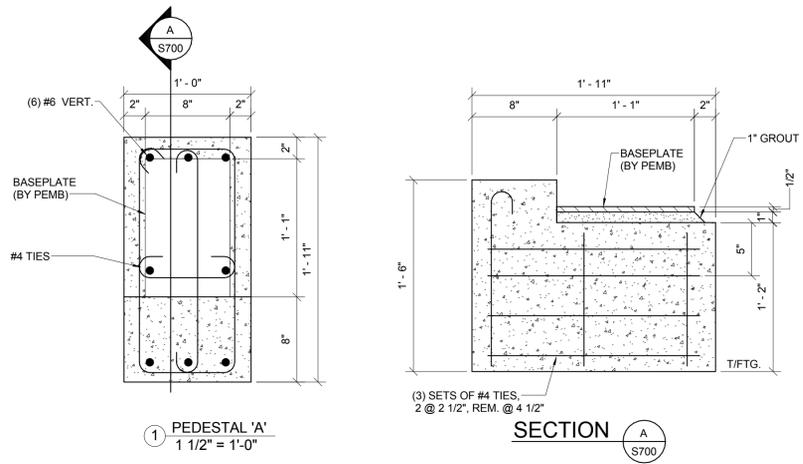
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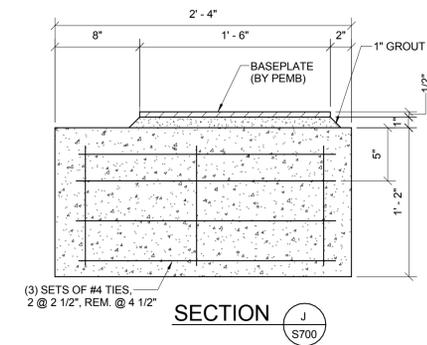
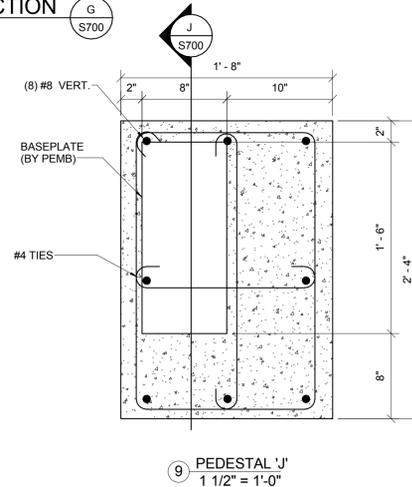
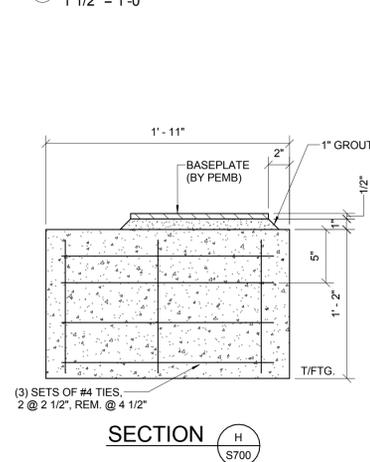
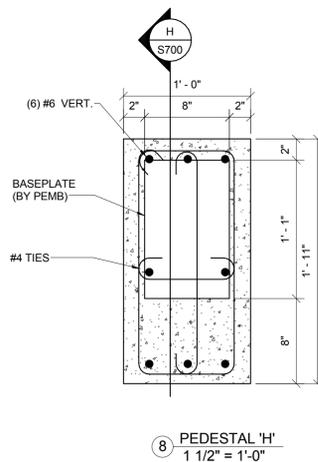
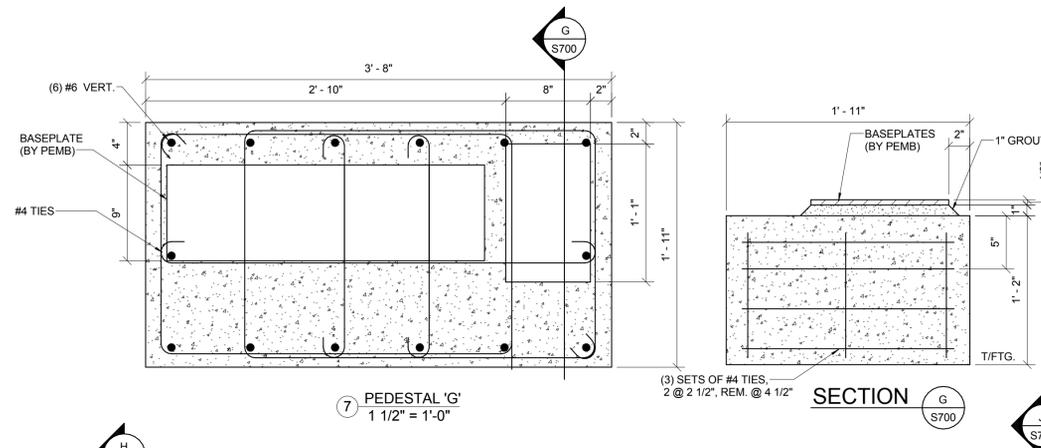
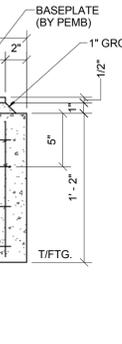
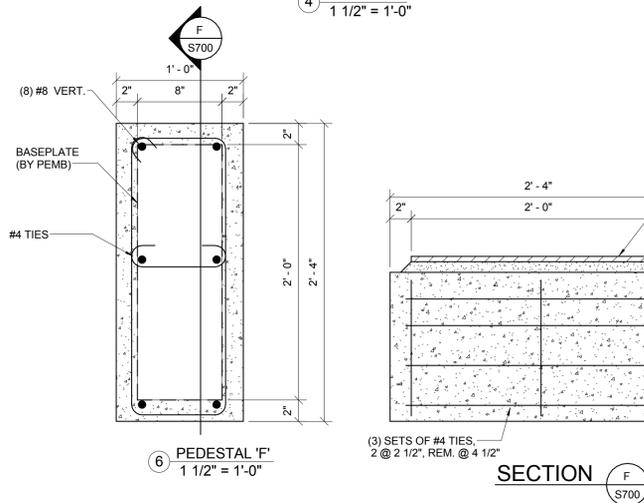
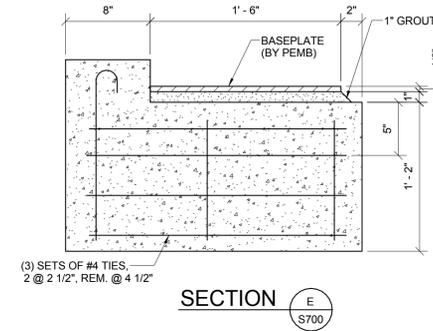
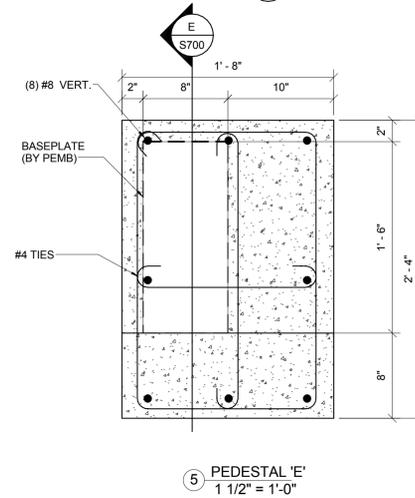
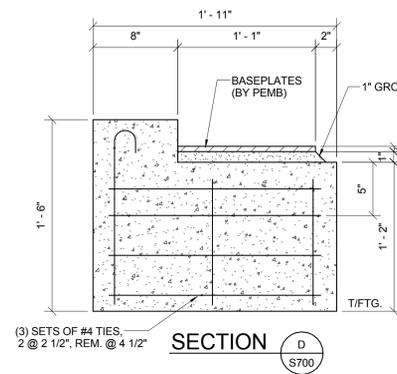
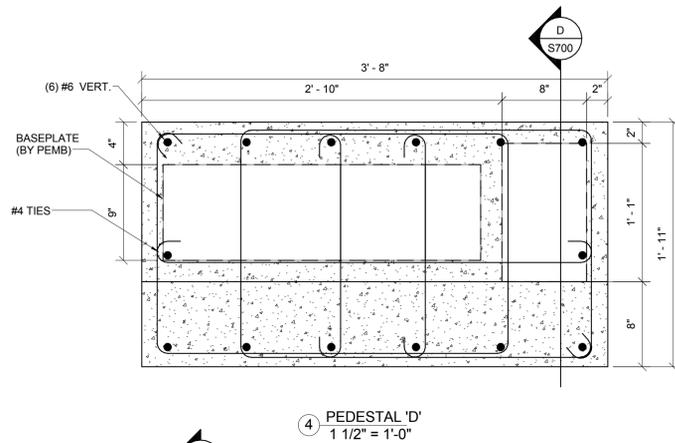
CONSTRUCTION  
 DOCUMENTS

SHEET NO.

S700



NOTE:  
 HOOK (4) VERTICAL BARS NEAREST ANCHOR BOLTS.



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 584 ADAMS  
 MEMPHIS, TENNESSEE 38103

PROJECT NAME

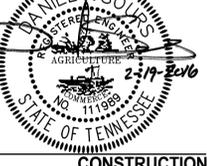
**FIRE FLEET  
 MAINTENANCE  
 FACILITY**

Project No. 2015478  
 Date Issued 2/9/2016  
 Drawing Scale As indicated  
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DRAWING TITLE

**FOUNDATION  
 SECTIONS**

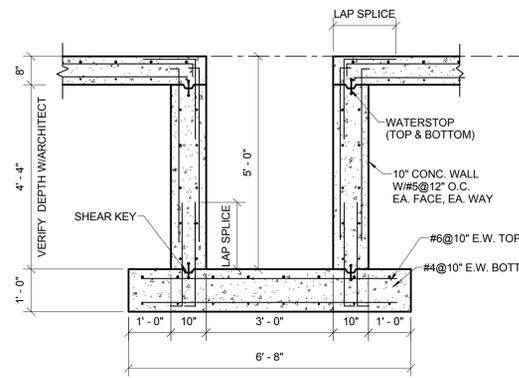
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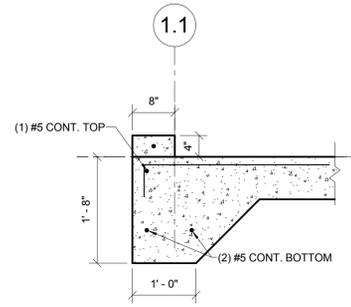
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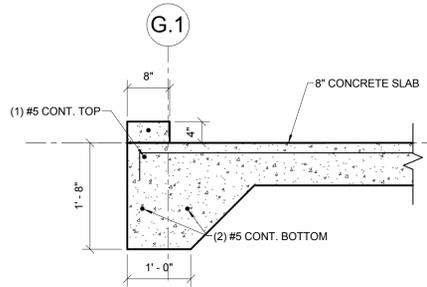
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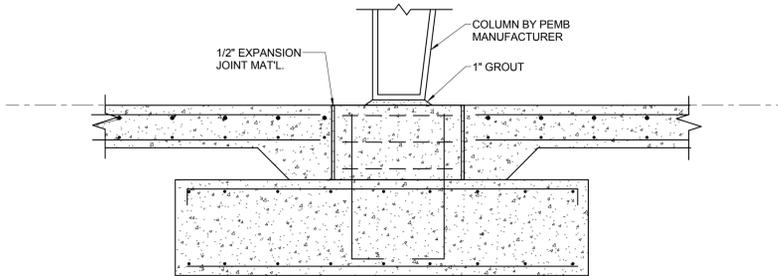
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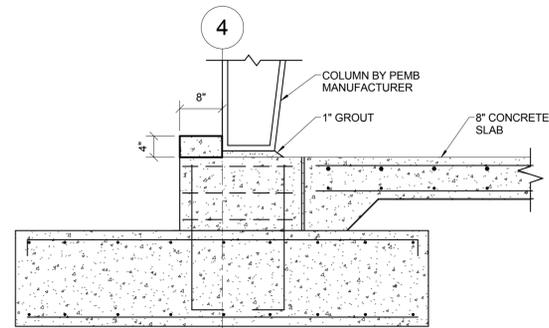
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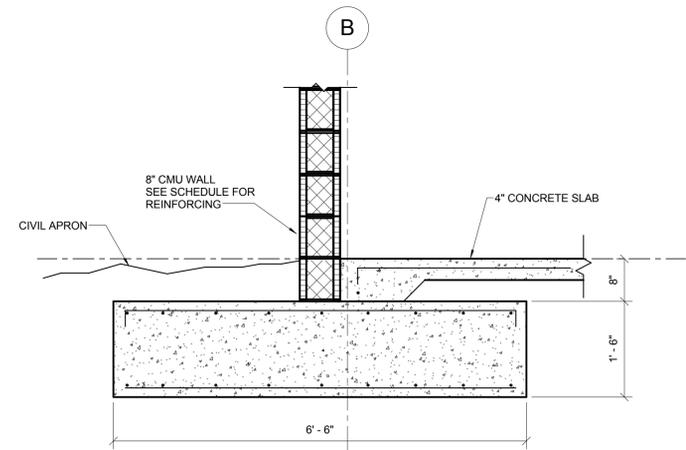
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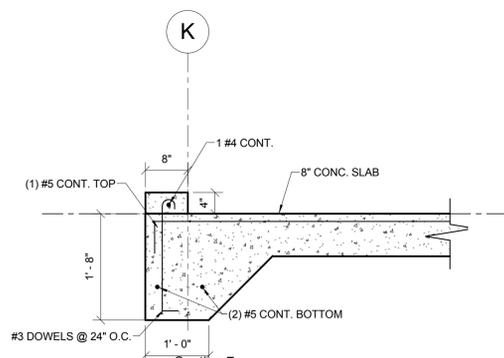
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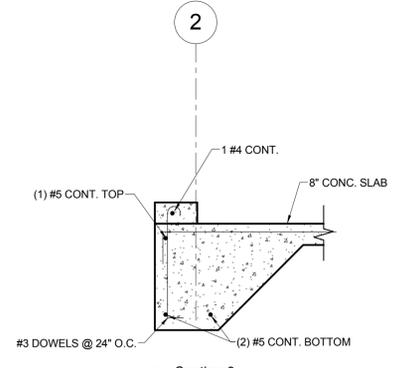
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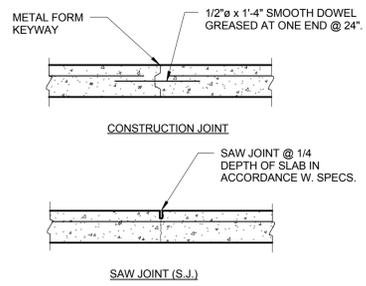
6 SECTION  
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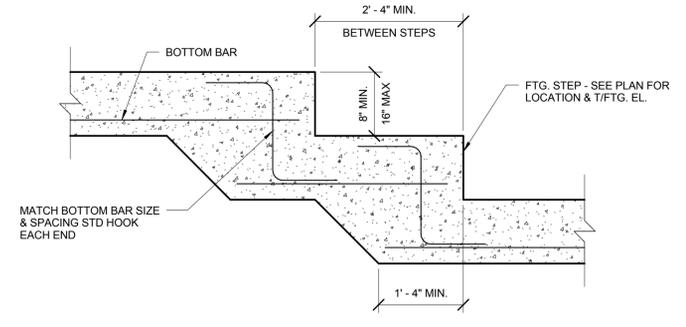
7 Section 7  
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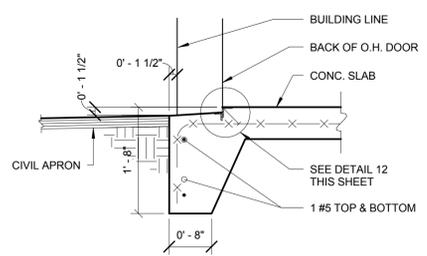
8 Section 8  
 3/4" = 1'-0"



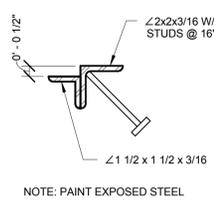
9 TYPICAL CONTROL JOINT DETAILS  
 3/4" = 1'-0"



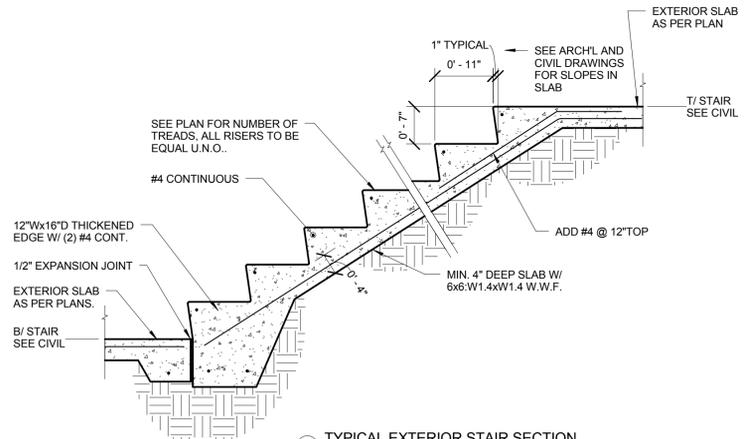
10 TYPICAL FOOTING STEP  
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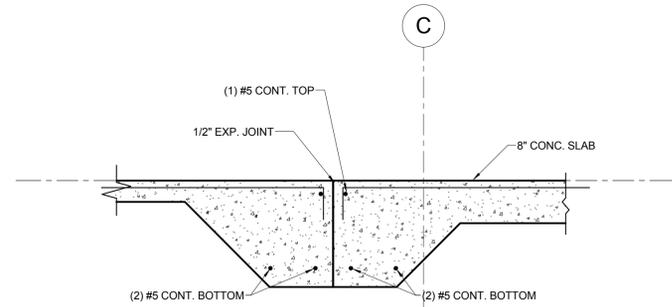
11 SECTION AT O.H. DOOR THRESHOLD  
 3/4" = 1'-0"



12 DETAIL  
 3" = 1'-0"

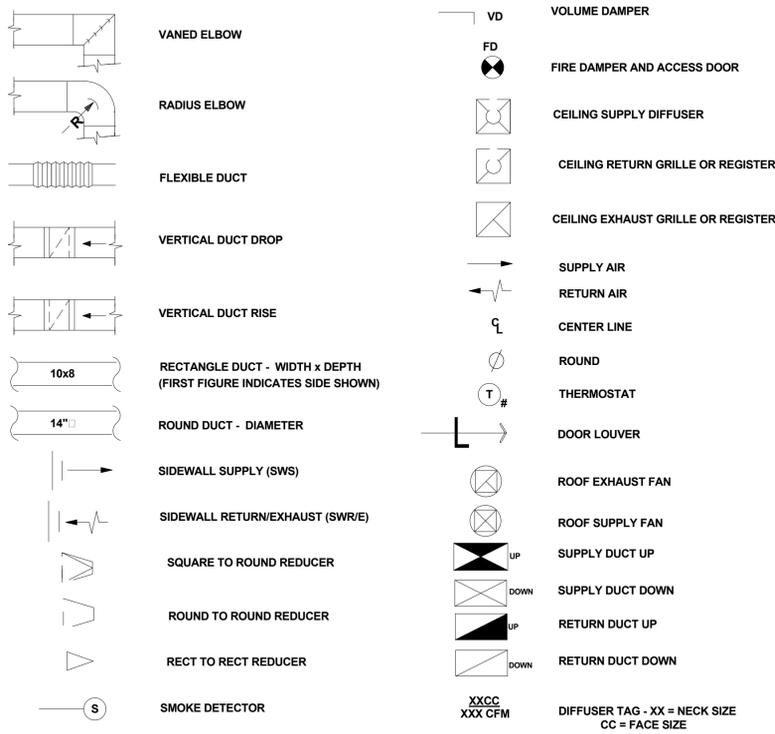


13 TYPICAL EXTERIOR STAIR SECTION  
 3/4" = 1'-0"



14 Section 14  
 3/4" = 1'-0"

**HVAC LEGEND**



**ABBREVIATIONS**

AHU	AIR HANDLING HVAC UNIT
AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
BHP	BRAKE HORSE POWER
BTU	BRITISH THERMAL UNIT (HEAT MEASUREMENT)
BTUH	THERMAL HEAT CAPACITY - BTU/HOUR
CFH	CUBIC FEET PER HOUR
CU	CONDENSING UNIT
CFM	CUBIC FEET/MINUTE (AIR FLOW)
CD	CONDENSATE DRAIN (AIR CONDITIONING)
DB	DRY BULB TEMPERATURE
DX	DIRECT EXPANSION REFRIGERANT COOLING
EAT	ENTERING AIR TEMPERATURE
EWV	ELECTRIC WALL HEATER
EAR	EXHAUST AIR REGISTER (WITH DAMPER)
EAG	EXHAUST AIR GRILLE (WITHOUT DAMPER)
EVT	ENTERING WATER TEMPERATURE
EF	EXHAUST FAN
EUH	ELECTRIC UNIT HEATER
FT <sup>2</sup>	AREA IN SQUARE FEET OR SQ.FT.
°F	TEMPERATURE - FAHRENHEIT DEGREES
FLA	FULL LOAD AMPERAGE
GPH	GALLONS PER HOUR = RECOVERY RATE
GPM	WATERFLOW - GALLONS/MINUTE
GUH	GAS UNIT HEATER
HG	HOT GAS PIPING
HP	HORSE POWER (MOTOR)
HVAC	HEATING, VENTILATING, AIR CONDITIONING
KW	KILOWATTS
KWH	ENERGY USAGE - KILOWATT HOURS
LWT	LEAVING WATER TEMPERATURE
LAT	LEAVING AIR TEMPERATURE
MD	MANUAL DAMPER
MCA	MINIMUM CIRCUIT AMPACITY
MOCP	MINIMUM OVERCURRENT PROTECTION
NG	NATURAL GAS
OSA	OUTSIDE AIR
PSIG	POUNDS PER SQ. IN. GAUGE
PSIA	POUNDS PER SQ. IN. ABSOLUTE
PSI	PRESSURE-POUNDS/SQ.IN.
R VALUE	INSULATING VALUE OF A MATERIAL
RTU	ROOFTOP HVAC UNIT
RAR	RETURN AIR REGISTER (WITH DAMPER)
RAG	RETURN AIR GRILLE (WITHOUT DAMPER)
SF	SUPPLY FAN
SH	SPACE HEATER
SD	SMOKE DETECTOR
SAD	SUPPLY DIFFUSER (WITH DAMPER)
SAR	SUPPLY AIR REGISTER (WITH DAMPER)
TON	12,000 BTUH (AIR CONDITIONING)
T #	HVAC THERMOSTAT W/ZONE
TEFC	TOTALLY ENCLOSED FAN COOLED (MOTOR)
TWU	THRU-WALL HVAC UNIT
U VALUE	THERMAL TRANSMISSION COEFFICIENT - BTU/FT <sup>2</sup> F
UH	UNIT HEATER
VAV	VARIABLE AIR VOLUME
VVT	VARIABLE VOLUME/TEMPERATURE
W.C.	INCHES OF WATER COLUMN (PRESSURE)
WB	WET BULB TEMP

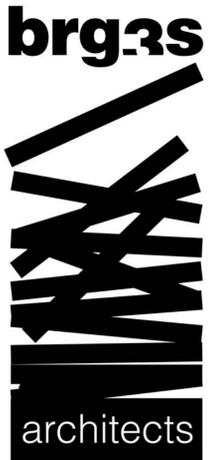
**GENERAL NOTES**

- THE CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS, INSPECTIONS, ETC.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE COORDINATION.
- CONTRACTOR SHALL REVIEW ALL DRAWINGS AND DISCIPLINES. COORDINATE BEFORE CONSTRUCTION. AVOID INTERFERENCE WITH ARCHITECTURAL FEATURES, BEAMS, FOOTINGS, WINDOWS, ETC. NOTIFY ARCHITECT OF ANY CONFLICTS. CONTRACTOR MAY REROUTE DUCT TO AVOID CONFLICT WITH OTHER TRADES AT NO ADDITIONAL COST TO THE OWNER AFTER FIRST RECEIVING THE APPROVAL OF THE ARCHITECT/ENGINEER.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LOCAL STATE, FEDERAL, BUILDING CODE AND STATE HEALTH REGULATIONS AS WELL AS ANY APPLICABLE LOCAL REQUIREMENTS.
- THESE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT SHOP DRAWINGS. THIS CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS BEFORE FABRICATION OF DUCTWORK OR PIPING AND PROVIDE NECESSARY OFFSETS AND APPURTENANCES IN DUCTWORK AND PIPING TO AVOID ALL OBSTRUCTIONS AT NO ADDITIONAL COST TO THE OWNER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE DETAILED SHOP DRAWINGS AND TO CONFIRM SPACE ALLOCATIONS.
- ALL MATERIALS SHALL BE NEW AND OF THE FINEST QUALITY.
- ALL WORK SHALL BE PERFORMED BY TRADESMEN THAT ARE TRAINED AND HIGHLY SKILLED IN THE WORK THAT THEY ARE TO PERFORM.
- ALL EQUIPMENT, MATERIALS, AND LABOR FURNISHED BY THIS CONTRACTOR SHALL BE WARRANTED BY HIM FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.
- HVAC CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR ALL VOLTAGES, ELECTRICAL LOADS, ETC. OF ELECTRICALLY OPERATED EQUIPMENT PRIOR TO ORDERING. ALL WIRING BY ELECTRICAL CONTRACTOR. DISCONNECT FOR PACKAGED AIR CONDITIONERS SHALL BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- ROUTE ALL DUCTWORK PARALLEL AND PERPENDICULAR TO BUILDING LINES. DUCTWORK SHALL BE HUNG LEVEL AND FREE OF BENDS, CRIMPS AND SAGS.
- ALL DUCTWORK SHALL BE CONSTRUCTED OF PRIME GALVANIZED SHEET METAL. USE OF FIBERGLASS DUCTBOARD IS NOT ACCEPTABLE. ALL JOINTS SHALL BE SEALED WITH HIGH-PRESSURE DUCT SEALANT. PROVIDE TURNING VANES AT ALL ELBOWS AND OFFSETS. ALL DUCTWORK SHALL BE ROUTED CONCEALED AND SHALL BE SECURELY SUPPORTED FROM THE BUILDING STRUCTURAL ELEMENTS.
- ALL DUCTWORK SIZES GIVEN ARE ACTUAL SHEET METAL SIZES. NO ADJUSTMENT HAS BEEN MADE FOR INTERNAL DUCT LINER IF SPECIFIED.
- CONSTRUCT ALL SUPPLY AIR DUCTWORK IN ACCORDANCE WITH SMACNA STANDARDS FOR 2" PRESSURE CATEGORY. CONSTRUCT ALL RETURN AIR DUCTWORK IN ACCORDANCE WITH SMACNA STANDARDS FOR 1" PRESSURE CATEGORY.
- LIMIT LENGTHS OF FLEXIBLE DUCTWORK TO 6" OR LESS.
- ALL RECTANGULAR RETURN DUCTWORK MAY BE INTERNALLY INSULATED WITH 1" THICK 1-1/2 LB LINER. LINER TO BE MECHANICALLY ATTACHED TO SHEET METAL ACCORDING TO SMACNA STANDARDS.
- EXTERNALLY INSULATE ALL SUPPLY, OUTSIDE AIR, CONCEALED ROUND DUCTWORK, THE TOPS OF ALL SUPPLY DIFFUSERS AND PLENUMS WITH 2" THICK FIBERGLASS DUCTWRAP WITH FOIL SCRIM VAPOR BARRIER JACKET. BUTT AND TAPE ALL SEAMS TO FORM A CONTINUOUS VAPOR TIGHT SEAL.
- SEAL ALL LONGITUDINAL AND TRANSVERSE SEAMS BEFORE APPLYING INSULATION. SEALANT SHALL BE NON-HARDENING, WATER RESISTANT, FIRE RESISTIVE, COMPATIBLE WITH MATING MATERIALS LIQUID USED ALONE OR WITH TAPE OR HEAVY MASTIC.
- ALL CONTROL WIRING TO THERMOSTATS, ETC. SHALL BE IN CONDUIT FROM THE CEILING TO THE T-STAT AND SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
- PROVIDE DEEP SEAL PVC CONDENSATE TRAPS ON AIR CONDITIONERS. CONDENSATE TO INDIRECTLY CONNECT TO SANITARY SEWER. IF ALLOWED BY LOCAL CODE, CONDENSATE PIPING SHALL BE ASTM D-2665, D-1785, SCHEDULE 40 PVC WITH PVC FITTINGS. JOINTS SHALL BE ASTM D-2855, SOLVENT WELDED WITH ASTM D-2564 SOLVENT CEMENT.
- THE COMPLETED INSTALLATION SHALL BE IN ACCORDANCE WITH ALL UTILITY COMPANY REGULATIONS, APPLICABLE INDUSTRY STANDARDS OF GOOD PRACTICE AND SAFETY AND THE MANUFACTURERS' RECOMMENDATIONS FOR EQUIPMENT AND PRODUCT APPLICATION AND INSTALLATION.
- THE CONTRACTOR SHALL VISIT THE SITE, OBSERVE EXISTING CONDITIONS AND VERIFY THAT THE WORK CAN BE INSTALLED IN ACCORDANCE THE DESIGN AND THE ARCHITECT'S RESTRICTIONS. THE CONTRACTOR SHALL PERFORM THE ENTIRE INSTALLATION IN A FIRST CLASS WORKMANLIKE MANNER. VERIFY THE EXACT LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF THE WORK.
- PROVIDE ALL REQUIRED GENERAL CONSTRUCTION ACCESS PANELS TO ACCESS VALVES, METERS AND ALL DEVICES REQUIRING ADJUSTMENTS AND SERVICE.
- SUBMIT PRODUCT DATA SHEETS AND SHOP DRAWINGS REPRESENTING THE WORK PROPOSED TO BE INSTALLED PRIOR TO THE ACTUAL INSTALLATION, FOR REVIEW AND COMMENT BY THE ARCHITECT/ENGINEER. SHOP DRAWINGS SHALL SHOW ALL EQUIPMENT, MAINTENANCE CLEARANCE, ETC.

- ALL PENETRATIONS THROUGH RATED WALLS OR FLOORS SHALL BE SEALED WITH AN APPROVED U.L. LISTED FIREPROOFING TO MAINTAIN THE INTEGRITY OF THE WALL OR FLOOR.
- FOR PURPOSE OF BALANCING HVAC SYSTEMS, THIS CONTRACTOR SHALL OBTAIN THE SERVICES OF AN INDEPENDENT TESTING AND BALANCING CONTRACTOR. THE TESTING AND BALANCING CONTRACTOR SHALL BE NEBB OR AABC CERTIFIED AND SHALL TEST AND BALANCE ALL AIR SYSTEMS AND SHALL SUBMIT COPIES OF TEST AND BALANCE REPORTS TO THE ARCHITECT FOR REVIEW. ALL COST FOR TESTING, ADJUSTING AND BALANCING SHALL BE PAID BY THE HVAC CONTRACTOR. SUBMIT COPIES OF BALANCING REPORTS TO THE ARCHITECT WITHIN 10 DAYS OF SUBSTANTIAL COMPLETION OF THE MECHANICAL SYSTEM.
- VERIFY THAT EACH PIECE OF EQUIPMENT OR SYSTEM HAS BEEN CHECKED FOR PROPER LUBRICATION, DRIVE ROTATION, BELT TENSION, CONTROL SEQUENCE OR FOR OTHER CONDITIONS WHICH MAY CAUSE DAMAGE.
- DEMONSTRATE OPERATION AND MAINTENANCE OF PRODUCTS TO OWNER'S PERSONNEL ONE WEEK PRIOR TO DATE OF FINAL INSPECTION.
- EXECUTE FINAL CLEANING PRIOR TO FINAL PROJECT ASSESSMENT.
- LOCATE DUCTS AND EQUIPMENT WITH SUFFICIENT SPACE AROUND EQUIPMENT TO ALLOW NORMAL OPERATING AND MAINTENANCE ACTIVITIES.
- FRAME STYLE OF ALL AIR DISTRIBUTION DEVICES SHALL MATCH THE TYPE OF CEILING/WALL IN WHICH THEY ARE INSTALLED. VERIFY WITH ARCHITECTURAL PLANS.
- DUCT PENETRATIONS THROUGH THE EXTERIOR WALL SHALL BE WEATHERPROOFED WITH FLASHING AND CAULK.

**DRAWING LIST**

M-0	MECHANICAL GENERAL NOTES, LEGEND, SCHEDULES & DETAILS
M-1	MECHANICAL DEMOLITION FLOOR PLAN
M-2	MECHANICAL DEMOLITION FLOOR PLAN
M-3	MECHANICAL NEW WORK FLOOR PLAN
M-4	MECHANICAL NEW WORK FLOOR PLAN



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Memphis, TN 38118  
Telephone: 901.683.3900  
Fax: 901.683.3990  
Website: www.ssr-inc.com

MECHANICAL, PLUMBING, & ELECTRICAL



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Bartlett, Tennessee 38134  
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www.innovativees-llc.com

TYPE MARK	NO.	CFM	EXT. S.P. IN. W.G.	FAN RPM	DRIVE TYPE	MAX. SONES (INLET)	ELECTRICAL DATA			MANUFACTURER	MODEL	AREA SERVED
							MOTOR HP (WATTS)	V / Φ / Hz	OPENING			
EF	1	150	0.35	1539	DIRECT	4.7	1/10	120/1/60	-	GREENHECK	SQ-75-VG	TOILETS 112, 113 & 116
EF	2	225	0.35	1706	DIRECT	5.9	1/10	120/1/60	-	GREENHECK	SQ-75-VG	TOILETS 112, 113 & 116
EF	3	1500	0.4	1544	DIRECT	11.0	1/2	120/1/60	-	GREENHECK	SQ-120-VG	CLERESTORY
EF	4	1500	0.4	1544	DIRECT	11.0	1/2	120/1/60	-	GREENHECK	SQ-120-VG	CLERESTORY
EF	5	1500	0.4	1544	DIRECT	11.0	1/2	120/1/60	-	GREENHECK	SQ-120-VG	CLERESTORY
EF	6	600	3.0	2940	BELT	24	1	208/1/60	-	GREENHECK	USF-207-10-BI-10	VEHICLE EXHAUST
EF	7	400	0.35	1408	DIRECT	6.3	1/15	120/1/60	10.5" x 10.5"	GREENHECK	CW-090-D	PIT
EF	8	1200	3.0	2707	BELT	16.4	1	208/1/60	-	GREENHECK	USF-207-10-BI-10	VEHICLE EXHAUST
EF	9	1100	0.4	1246	DIRECT	7.3	1/2	120/1/60	-	GREENHECK	SQ-120-VG	HIGH BAY
EF	10	1100	0.4	1246	DIRECT	7.3	1/2	120/1/60	-	GREENHECK	SQ-120-VG	HIGH BAY

- NOTES:
- FURNISH ALL UNITS WITH BACKDRAFT DAMPER AND SPEED CONTROLLER. FURNISH EF-4, -6, -10 AND -11 WITH WALL HOUSING AND WEATHER-HOOD.

Type Mark	NO.	TYPE	HEATING DATA			ELECTRICAL DATA		TUBE DATA			MANUFACTURER	MODEL	AREA SERVED
			FUEL	INPUT CAP. (MBH)	VENT SIZE (IN.)	V / Φ / Hz	WEIGHT (LBS.)	QTY.	LENGTH				
IRH	1	STRAIGHT TUBE	NG	130	4	120/1/60	120	2	30' - 8"	Schwank	builderSchwank (S100) - 130,000 BTUH - 30ft.	LOW BAY	
IRH	2	STRAIGHT TUBE	NG	130	4	120/1/60	120	2	30' - 8"	Schwank	builderSchwank (S100) - 130,000 BTUH - 30ft.	LOW BAY	
IRH	3	STRAIGHT TUBE	NG	155	4	120/1/60	150	2	40' - 4"	Schwank	builderSchwank (S100) - 155,000 BTUH - 40ft.	HIGH BAY	

- NOTES:
- FURNISH AND INSTALL LINE VOLTAGE THERMOSTAT.
  - FURNISH AND INSTALL ROOF VENT CAP TO MATE WITH 4" VENT PIPE.

Type Mark	NO.	TYPE	HEATING DATA			ELECTRICAL DATA		WEIGHT (LBS.)	MANUFACTURER	MODEL	AREA SERVED
			FUEL	INPUT CAP. (MBH)	VENT SIZE (IN.)	V / Φ / Hz					
IH	1	INDIRECT	NG	34	4	120/1/60	26	Schwank	ecoSchwank-10	BAY 7 / 8 NORTH	
IH	2	INDIRECT	NG	34	4	120/1/60	26	Schwank	ecoSchwank-10	BAY 5 / 6 NORTH	
IH	3	INDIRECT	NG	34	4	120/1/60	26	Schwank	ecoSchwank-10	BAY 4	
IH	4	INDIRECT	NG	34	4	120/1/60	26	Schwank	ecoSchwank-10	BAY 4	
IH	5	INDIRECT	NG	34	4	120/1/60	26	Schwank	ecoSchwank-10	BIG BAY 3	
IH	6	INDIRECT	NG	34	4	120/1/60	26	Schwank	ecoSchwank-10	BAY 4	
IH	7	INDIRECT	NG	34	4	120/1/60	26	Schwank	ecoSchwank-10	BIG BAY 3	

- NOTES:
- FURNISH AND INSTALL LINE VOLTAGE THERMOSTAT.

DEVICE TYPE	SIZE	O.B.V.D.	PRICE MODEL NO.	REMARKS
A	24" X 24"	Yes	ASPD	SQUARE PLAQUE SUPPLY DIFFUSER
B	12" X 12"	Yes	ASPD	SQUARE PLAQUE SUPPLY DIFFUSER
C	24" X 24"	No	80	EGGCRATE RETURN/EXHAUST GRILLE
D	12" X 12"	No	80	EGGCRATE RETURN/EXHAUST GRILLE
E				
F	SEE PLANS	No	530	LOUVERED FACE RETURN GRILLE

- NOTES:
- EQUAL DEVICES BY NAILOR, TITUS, METALAIRE ARE ACCEPTABLE.

Type Mark	Mark	TOTAL CFM	OSA CFM	EXT. S.P. IN. W.G.	HEATING DATA		FILTER	V / Φ / Hz	AREA SERVED
					INPUT CAP. (MBH)	OUTPUT CAP. (MBH)			
GF	1	1600	125	0.5	80	64	-	120/1/60	OFFICES
GF	2	1600	140	0.5	80	64	-	120/1/60	PARTS

- NOTES:
- FURNISH WITH CONCENTRIC VENT KIT AND WALL-MOUNTED THERMOSTAT.

Type Mark	Mark	NOM. TONNAGE	CAP. BTU/HR	AMBIENT	REFRIGERANT	V / Φ / Hz	MCA	MOCP
CU	1	4	48,000	95	R-134A	208/3/60	25	30
CU	2	4	48,000	95	R-134A	208/3/60	25	30

VERTICAL, OUTDOOR INDIRECT FIRED MAKE-UP AIR (MAU) UNIT NOTES:

- MAU-1: REZNOR MODEL NO. PCD25, 312.5 MBH INPUT / 250 MBH OUTPUT, 0.75" W.C. EXT. STATIC PRESSURE, 2200 CFM, 460/3/60, 1 HP
- MAU-2: REZNOR MODEL NO. PCD40, 500 MBH INPUT / 400 MBH OUTPUT, 0.75" W.C. EXT. STATIC PRESSURE, 4500 CFM, 460/3/60, 2 HP

OPTIONS:

- OUTDOOR WEATHER HOUSING
- RAIN-TIGHT SAFETY DISCONNECT SWITCH
- 304 SS HEAT EXCHANGERS

CIRCULATING FAN (CF) NOTES:

CF-1 TO CF-23: GREENHECK MODEL NO. MCY-18-221-A4, 3040 CFM, 0.01" W.C. EXT. STATIC PRESSURE, 1/4 HP MOTOR (120/1/60), SONES = 21, 140 LBS.

Mark Date Description

REVISIONS

CLIENT

SHELBY COUNTY SUPPORT SERVICES  
584 ADAMS  
MEMPHIS, TENNESSEE 38103

PROJECT NAME

**FIRE FLEET  
MAINTENANCE  
FACILITY**

Project No. 2015470  
Date Issued 02/19/16  
Drawing Scale  
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DRAWING TITLE

**MECHANICAL  
GENERAL NOTES,  
LEGEND &  
SCHEDULES**

SEALS



CONSTRUCTION DOCUMENTS

**M000**

Mark	Date	Description

CLIENT

SHELBY COUNTY SUPPORT SERVICES  
 584 ADAMS  
 MEMPHIS, TENNESSEE 38103

PROJECT NAME

**FIRE FLEET  
 MAINTENANCE  
 FACILITY**

Project No. 2015478  
 Date Issued 02/19/16  
 Drawing Scale As indicated  
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DRAWING TITLE

**MECHANICAL FLOOR  
 PLAN - L1**

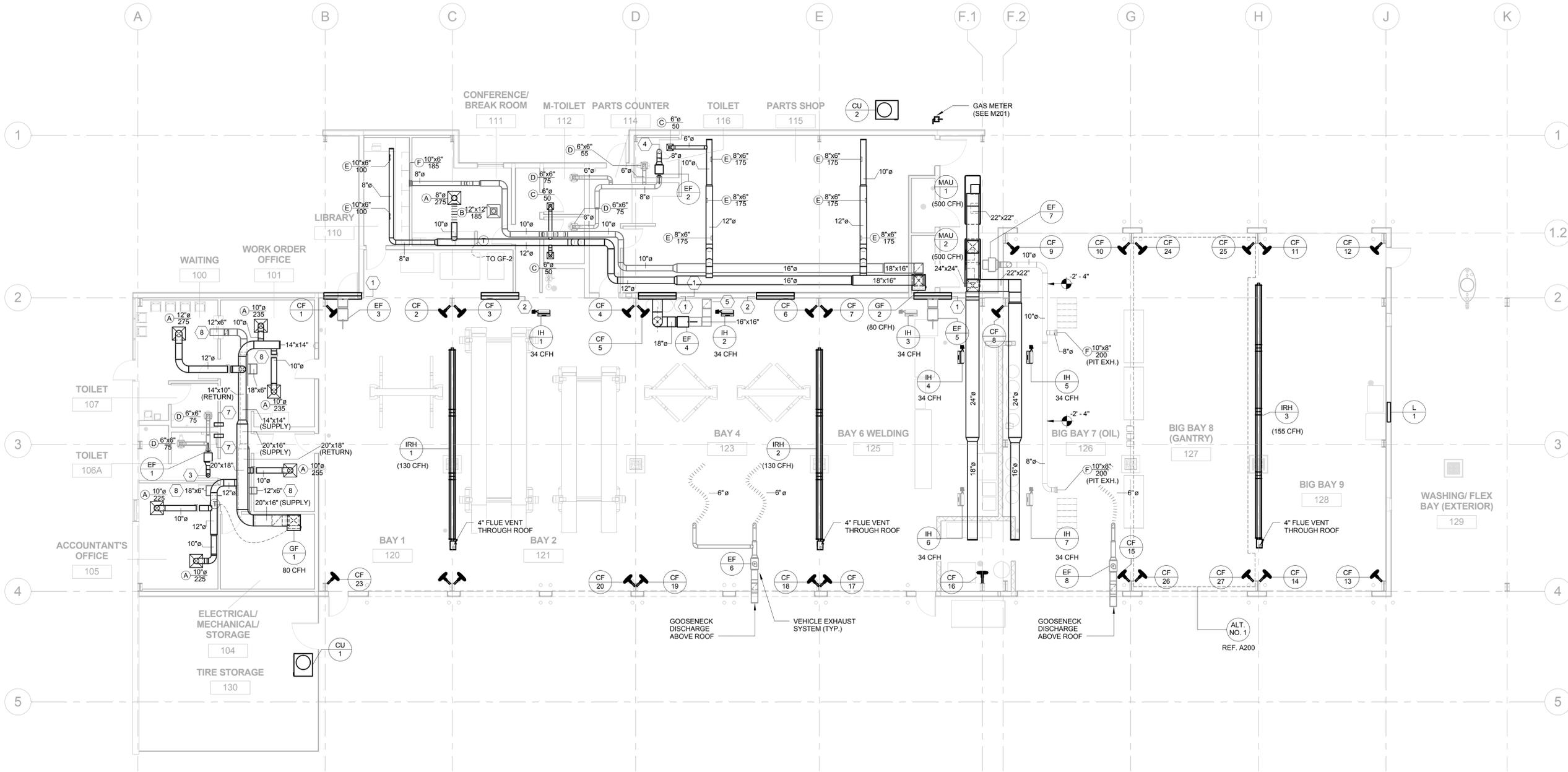
SEALS



CONSTRUCTION  
 DOCUMENTS

SHEET ID

**M200**



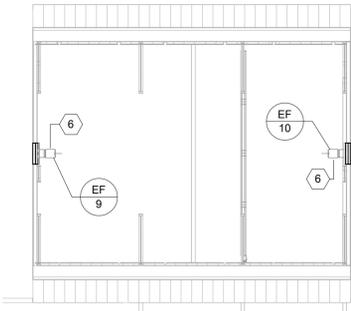
1 MECHANICAL FLOOR PLAN - L1  
 1/8" = 1'-0"

KEY NOTES:

- 69x32 LOUVERS (BY ARCHITECT); PROVIDE THERMALLY INSULATED CONTROL DAMPER (EQUAL TO TAMCO SERIES 9000) WITH SQUARE TO ROUND INLET COLLAR. CONNECT 18" DUCT FROM FAN DISCHARGE TO DAMPER INLET COLLAR. INTERLOCK LOUVER AND DAMPER WITH EXHAUST FAN. PROVIDE AUTO SWITCH WITH MANUAL OVERRIDE AT MAU-2. FOR WINTERTIME OPERATION (AUTO OPERATION), MAU-2 SHALL RUN WHEN FAN IS ENERGIZED. FOR SUMMERTIME OPERATION, MAU-2 SHALL RUN IN THE AUTO MODE WHEN BAY DOORS HAVE TO BE CLOSED. IN THE MANUAL MODE (BAY DOORS OPENS), MAU-2 OPERATION IS LOCKED OUT AND MAKE-UP AIR IS PROVIDED BY OPEN BAY DOORS. REF. ARCHITECTURAL FOR LOUVER MOUNTING HEIGHTS.
- 69x32 LOUVERS (BY ARCHITECT); PROVIDE THERMALLY INSULATED CONTROL DAMPER EQUAL TO TAMCO SERIES 9000. INTERLOCK LOUVER AND DAMPER TO OPEN ONLY DURING SUMMERTIME OPERATION WHEN BAY DOORS ARE OPEN. REF. ARCHITECTURAL FOR LOUVER MOUNTING HEIGHTS.
- 7" Ø UP TO ROOF. CONNECT TO DISCHARGE FLANGE EQUAL TO GREENHECK MODEL NO. GRSF-10.
- 8" Ø UP TO ROOF. CONNECT TO DISCHARGE FLANGE EQUAL TO GREENHECK MODEL NO. GRSF-10.
- 16x16 DOWN. TERMINATE 1'-6" A.F.F. AND COVER WITH EXPANDED METAL MESH.
- 48x48 LOUVERS (BY ARCHITECT); PROVIDE THERMALLY INSULATED CONTROL DAMPER (EQUAL TO TAMCO SERIES 9000) WITH SQUARE TO ROUND INLET COLLAR. CONNECT 18" DUCT FROM FAN DISCHARGE TO DAMPER INLET COLLAR. INTERLOCK LOUVER AND DAMPER WITH EXHAUST FAN. PROVIDE AUTO SWITCH WITH MANUAL OVERRIDE AT MAU-1. FOR WINTERTIME OPERATION (AUTO OPERATION), MAU-1 SHALL RUN WHEN FAN IS ENERGIZED. FOR SUMMERTIME OPERATION, MAU-1 SHALL RUN IN THE AUTO MODE WHEN BAY DOORS HAVE TO BE CLOSED. IN THE MANUAL MODE (BAY DOORS OPENS), MAU-1 OPERATION IS LOCKED OUT AND MAKE-UP AIR IS PROVIDED BY OPEN BAY DOORS. REF. ARCHITECTURAL FOR LOUVER MOUNTING HEIGHTS.
- 6x6 TRANSER AIR. COVER ENDS WITH EXPANDED METAL MESH.
- COVER END WITH EXPANDED METAL MESH.

ALTERNATE NO. 1 NOTES:

- MAU-1 SHALL BE UPGRADED TO REZNOR MODEL NO. PCD40, 500 MBH INPUT / 400 MBH OUPUT, 0.5" W.C. EXTERNAL STATIC, 3200 CFM AIRFLOW, AND FAN MOTOR AT 2 HP (460/3/60).
- RESIZE SUPPLY AIR DUCTWORK FROM MAU-1 TO 22X22. RESIZE SUPPLY AIR DUCTWORK IN BIG BAY 7 TO 24" Ø AND 16" Ø.
- ADD (4) FOUR MANCOOLER MANS. CF-24 TO CF-27 TO BIG BAY 8.
- IF ALTERNATE NO. 1 IS NOT ACCEPTED, IRH-3 WILL BE CENTERED OVER COLUMN LINE G.



2 MECHANICAL FLOOR PLAN - L2.3  
 1/16" = 1'-0"

Mark	Date	Description
REVISIONS		

CLIENT

**SHELBY COUNTY SUPPORT SERVICES**  
 584 ADAMS  
 MEMPHIS, TENNESSEE 38103

PROJECT NAME

**FIRE FLEET  
 MAINTENANCE  
 FACILITY**

Project No. 2015478  
 Date Issued: 02/19/16  
 Drawing Scale: 1/8" = 1'-0"  
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DRAWING TITLE

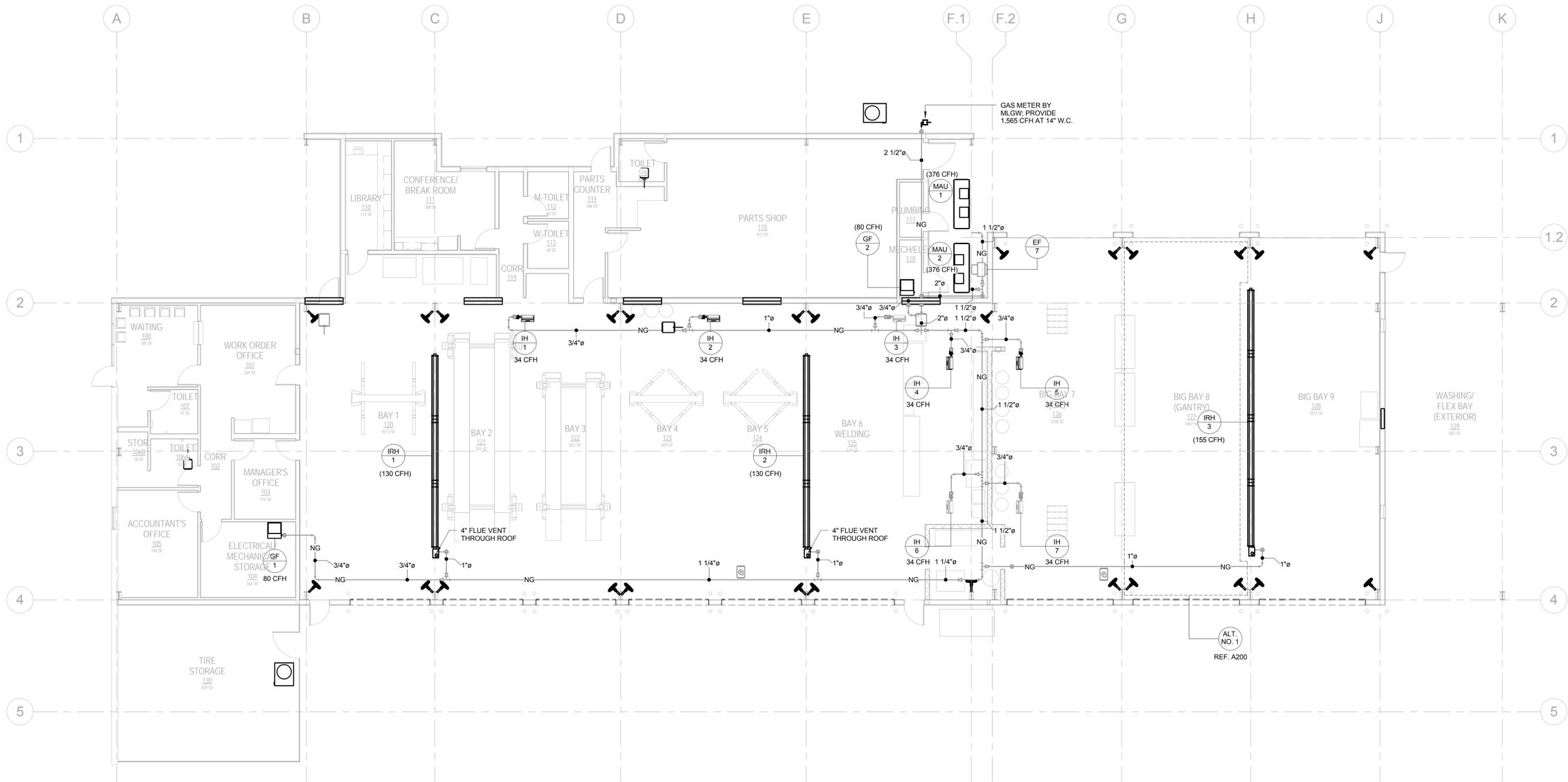
**MECHANICAL PIPING  
 PLAN - L1**

SEALS



CONSTRUCTION  
 DOCUMENTS

**M201**



① MECHANICAL PIPING PLAN - L1  
 1/8" = 1'-0"

Mark	Date	Description
REVISIONS		
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SHELBY COUNTY SUPPORT SERVICES  
584 ADAMS  
MEMPHIS, TENNESSEE 38103

PROJECT NAME

**FIRE FLEET  
MAINTENANCE  
FACILITY**

Project No. 2015478  
Date Issued 02/19/16  
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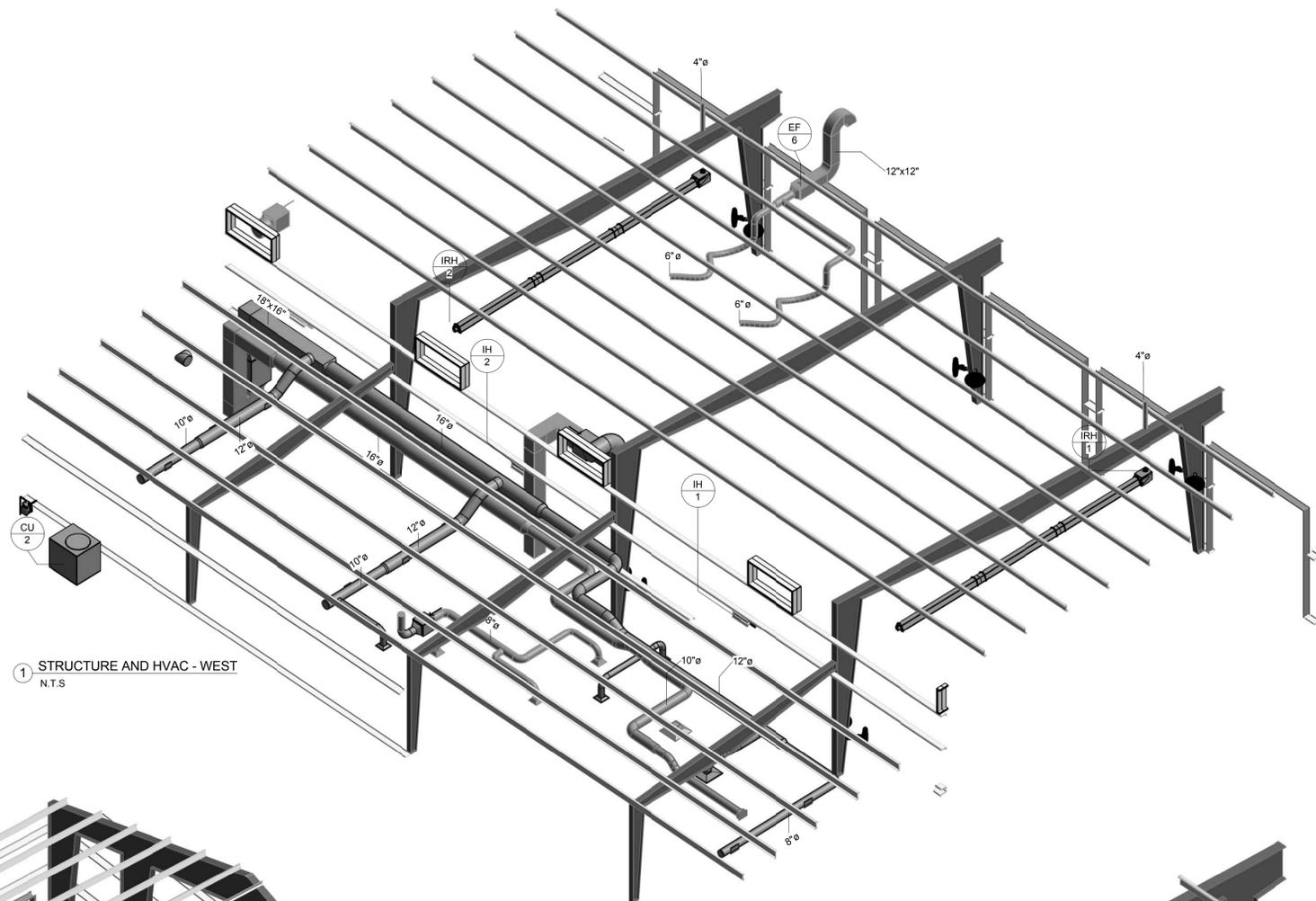
**MECHANICAL  
OVERALL 3D PLAN**

SEALS

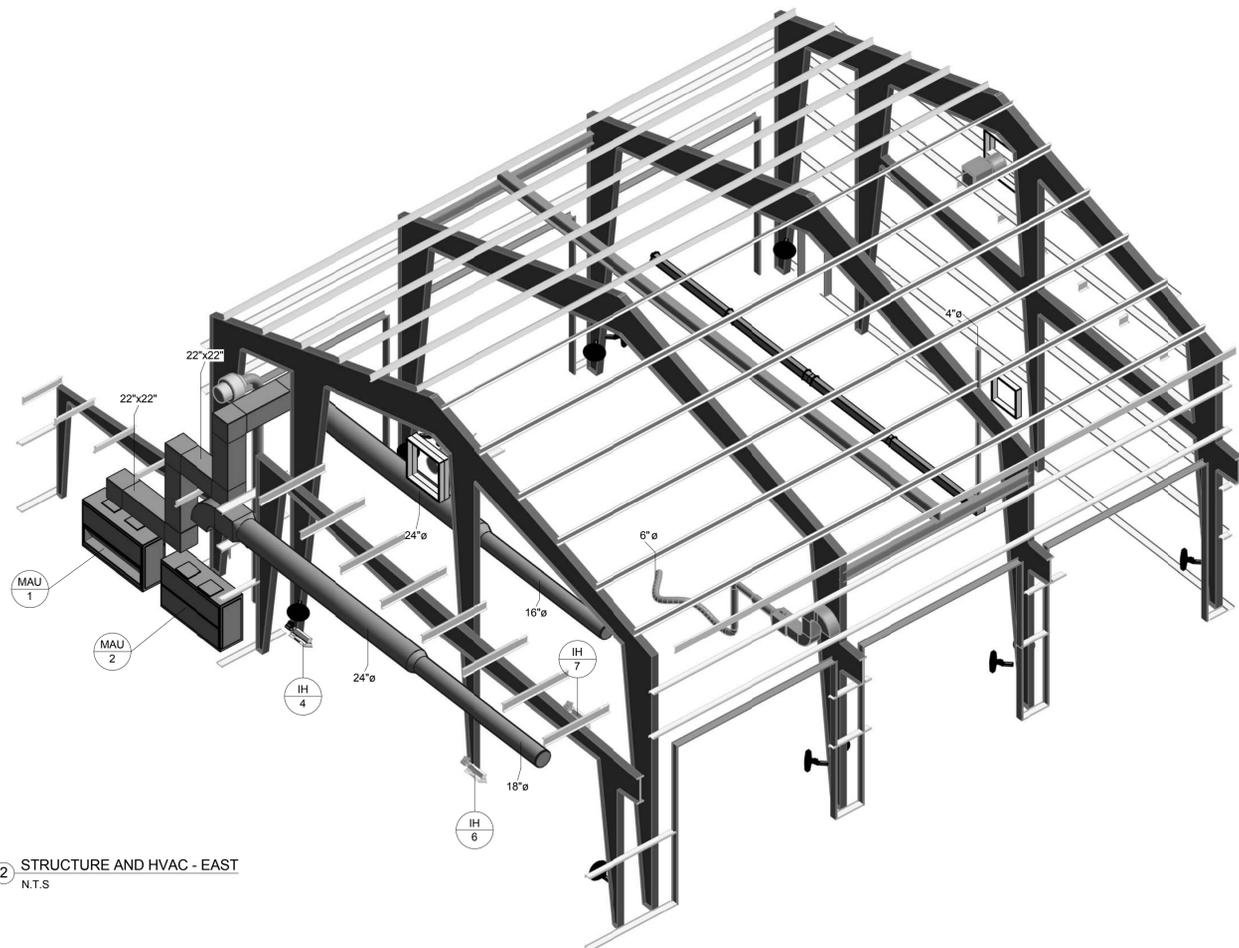


CONSTRUCTION  
DOCUMENTS

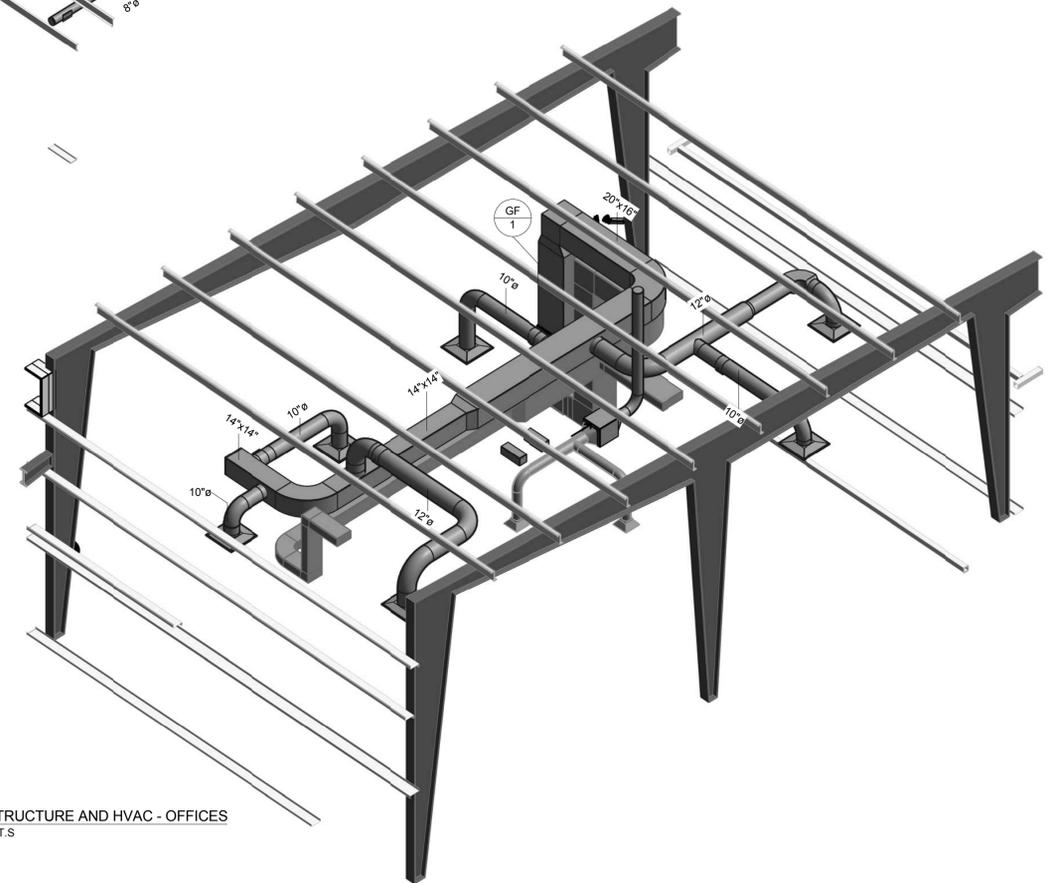
SHEET ID  
**M301**



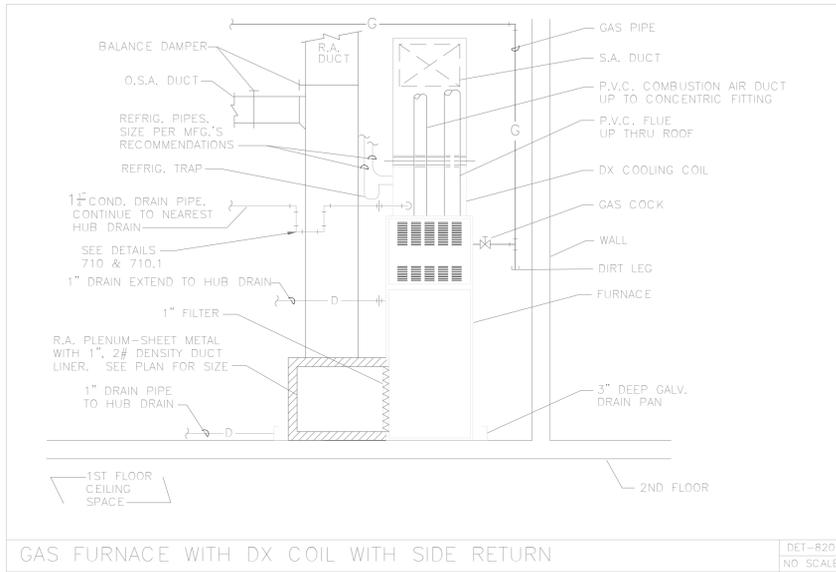
1 STRUCTURE AND HVAC - WEST  
N.T.S



2 STRUCTURE AND HVAC - EAST  
N.T.S

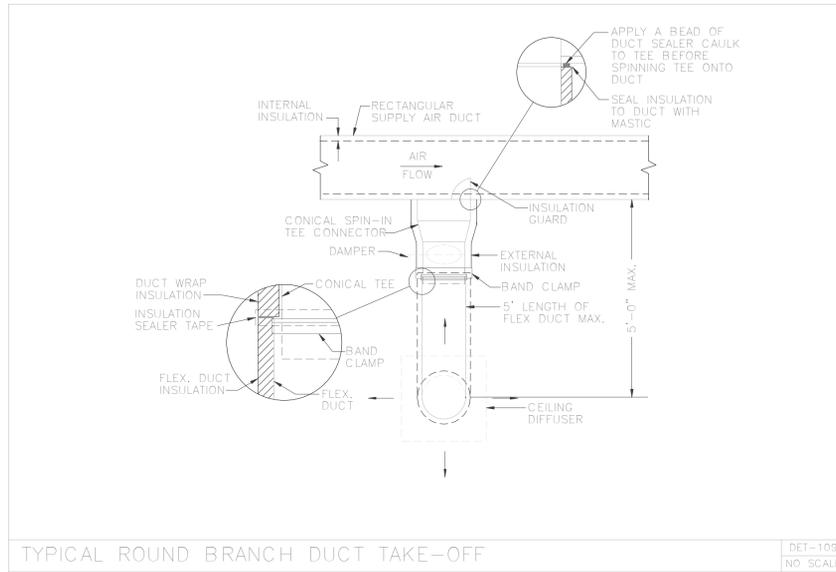


3 STRUCTURE AND HVAC - OFFICES  
N.T.S



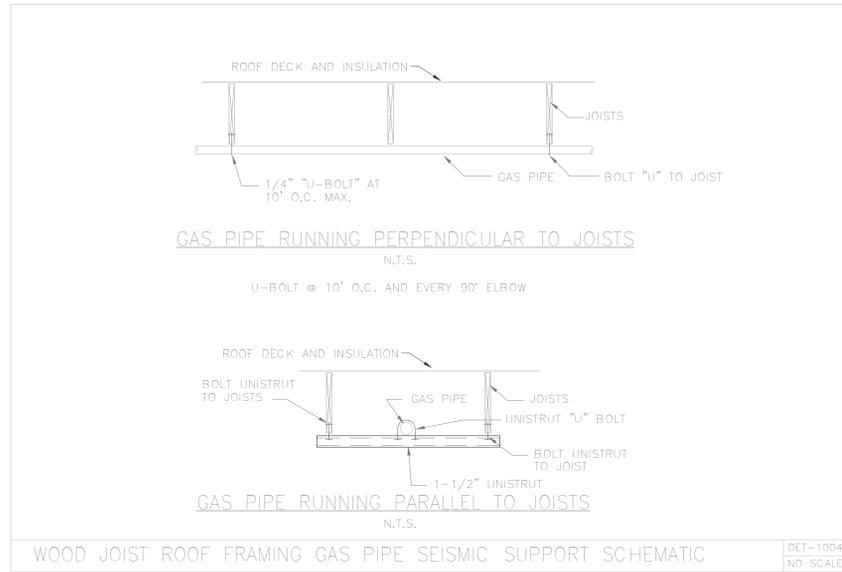
GAS FURNACE WITH DX COIL WITH SIDE RETURN

DET-820  
NO SCALE



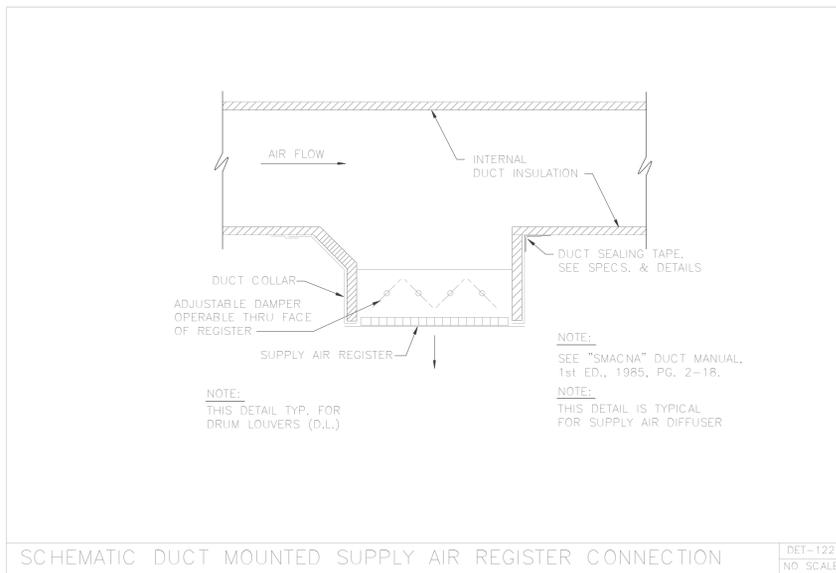
TYPICAL ROUND BRANCH DUCT TAKE-OFF

DET-109  
NO SCALE



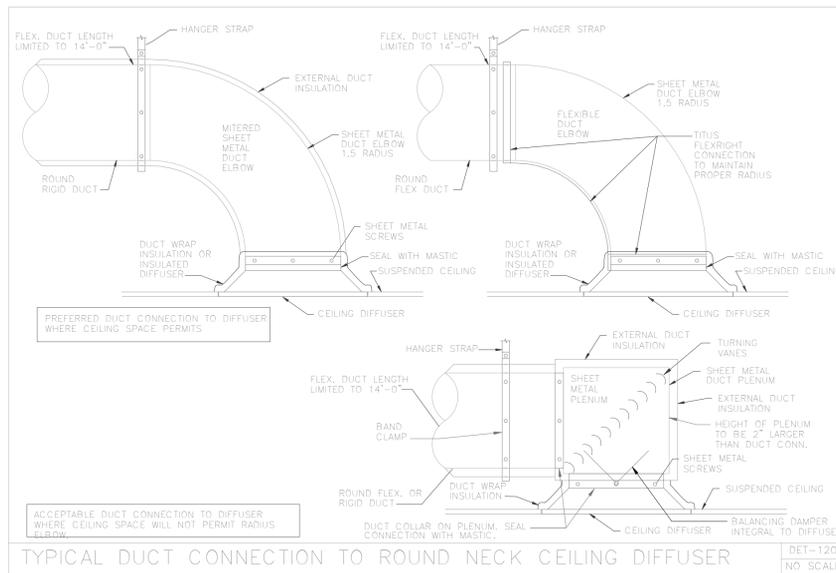
WOOD JOIST ROOF FRAMING GAS PIPE SEISMIC SUPPORT SCHEMATIC

DET-1004  
NO SCALE



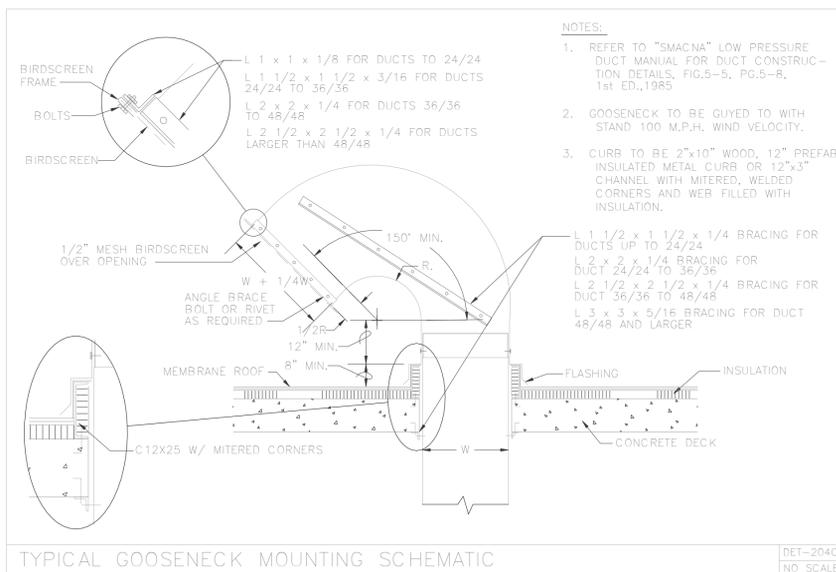
SCHEMATIC DUCT MOUNTED SUPPLY AIR REGISTER CONNECTION

DET-122  
NO SCALE



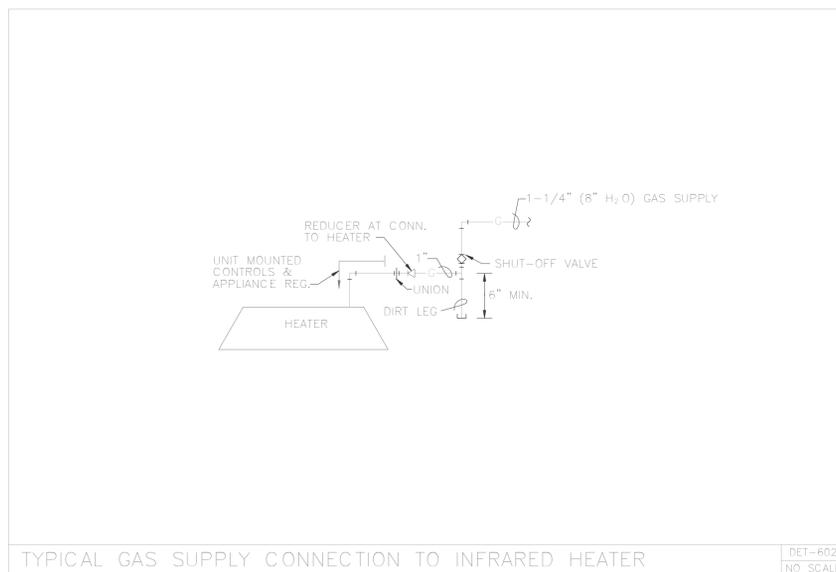
TYPICAL DUCT CONNECTION TO ROUND NECK CEILING DIFFUSER

DET-120  
NO SCALE



TYPICAL GOOSENECK MOUNTING SCHEMATIC

DET-204C  
NO SCALE



TYPICAL GAS SUPPLY CONNECTION TO INFRARED HEATER

DET-602  
NO SCALE

Mark	Date	Description
REVISIONS		

CLIENT

SHELBY COUNTY SUPPORT SERVICES  
584 ADAMS  
MEMPHIS, TENNESSEE 38103

PROJECT NAME  
**FIRE FLEET  
MAINTENANCE  
FACILITY**

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DRAWING TITLE  
**MECHANICAL  
DETAILS**



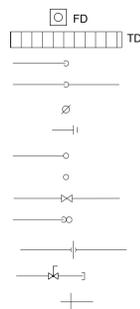
CONSTRUCTION DOCUMENTS

SHEET ID  
**M401**

**PLUMBING LEGEND**

- COLD WATER PIPING
- HOT WATER PIPING
- HOT WATER RETURN PIPING
- SANITARY OR WASTE PIPING
- VENT PIPING
- COMPRESSED AIR
- CONDENSATE DRAIN

- FIXTURE TRAP
- FLOOR PENETRATION
- WALL CLEANOUT
- VENT TO ROOF
- FLOOR CLEANOUT
- FLOOR DRAIN
- WATER CLOSET
- URINAL



- FD FLOOR DRAIN
- TD TRENCH DRAIN
- Drop Down
- Drop (or Rise)
- Flush Floor Cleanout
- Cleanout
- UP (THROUGH SLAB ABOVE)
- UP & DOWN (THROUGH FLOOR SLAB)
- GATE VALVE
- W&T (WASTE & TRAP)
- PIPING BRANCH TAKEOFF
- CAPPED & VALVED
- HOSE BIBB / WALL HYDRANT

**GENERAL NOTES**

- CONTRACTOR SHALL COORDINATE ALL PLUMBING SYSTEMS WITH ALL OTHER TRADES, SO NOT TO CAUSE INTERFERENCES.
- CONTRACTOR SHALL FIELD VERIFY ALL SITE UTILITY CONNECTIONS OR SIZE, LOCATION, AND DEPTH AND INSTALL ALL SYSTEMS IN ACCORDANCE WITH CONDITIONS FOUND (PRIOR TO BEGINNING INSTALLATION). ANY PART OF PLUMBING SYSTEMS INSTALLED INCORRECTLY DUE TO NOT VERIFYING SAME SHALL BE REMOVED AND CORRECTED AT THE EXPENSE OF THE CONTRACTOR.
- CONTRACTOR SHALL GUARANTEE ENTIRE SYSTEM FOR A PERIOD OF ONE YEAR AFTER FINAL DATE OF ACCEPTANCE.
- PROVIDE RATED SEALANT FOR ALL PENETRATIONS THROUGH WALLS, CEILINGS AND ROOFS. PROVIDE FIRE STOP SEALANT AROUND ALL PENETRATIONS THROUGH FIRE RATED WALLS, SO AS TO MAINTAIN FIRE INTEGRITY IN THE EVENT OF A FIRE.
- CONTRACTOR SHALL INSTALL ALL PLUMBING SYSTEMS IN A GOOD WORKMANSHIP MANNER. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES AND AUTHORITIES.
- CONTRACTOR SHALL REVIEW ENTIRE SET OF DOCUMENTS INCLUDING PLUMBING PLANS AND ADVISE ARCHITECT IN WRITING PRIOR TO BEGINNING CONSTRUCTION IF THERE ARE ANY CODE VIOLATIONS, SPACE CONFLICTS AND/OR OTHER COORDINATION CONFLICTS WITH OTHER TRADES. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH CODES, ETC.
- SEE ARCHITECTURAL DRAWINGS FOR ALL BUILDING DIMENSIONS, DETAILS, ELEVATIONS, AND EXACT LOCATIONS OF ALL FIXTURES.
- THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL PLUMBING LAYOUTS AND PIPE ROUTING ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE DETAILED SHOP DRAWINGS WHERE SPACE AND/OR COORDINATION ISSUES ARISE AND TO CONFIRM ALL SPACE ALLOCATIONS.
- CONTRACTOR SHALL PROVIDE TAMPER PROOF, LOCKABLE ACCESS PANELS FOR ALL CONCEALED VALVES, WATER HAMMER ARRESTORS, ETC.
- CONTRACTOR SHALL COORDINATE ALL ELECTRICAL CHARACTERISTICS OF ELECTRICAL OPERATED EQUIPMENT WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING SAME. THIS APPLIES TO VOLTAGE, PHASE, RATED CAPACITIES, ETC.
- CONTRACTOR SHALL OFFSET ALL PIPING IN BUILDING AS REQUIRED TO PROPERLY INSTALL PLUMBING SYSTEMS.
- CONTRACTOR SHALL PROVIDE SHUTOFF VALVES ON ALL BRANCH RUNOUTS TO FIXTURES. NO EXCEPTIONS!
- AT COMPLETION OF PROJECT, THE CONTRACTOR SHALL REMOVE ALL AERATORS, FILTERS, ETC. AND FLUSH SYSTEM OUT THOROUGHLY.
- CONTRACTOR SHALL VERIFY ALL CONNECTIONS OF MISC. EQUIPMENT FURNISHED BY OTHERS PRIOR TO INSTALLING THE SAME AND MAKE ALL CONNECTIONS FOR THE SAME.
- SLEEVES SHALL BE INSTALLED WHERE PIPING PASSES THROUGH STRUCTURE. ALL HOLES THROUGH CONCRETE SHALL BE CORE DRILLED. VERIFY LOCATION WITH ARCHITECT BEFORE COMMENCING WORK.
- ALL PIPING SHALL BE TESTED AND PROVEN TIGHT BEFORE PIPE IS CONCEALED.
- ALL SANITARY PIPING SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/8" PER FOOT, UNLESS NOTED OTHERWISE ON THE PLANS.
- PRIOR TO SUBMITTING BID, VISIT THE SITE OF THE PROPOSED CONSTRUCTION AND THOROUGHLY INVESTIGATE EXISTING UTILITIES, WORKING CONDITIONS TO BE ENCOUNTERED ETC. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR CONDITIONS INCREASING COST WHICH WERE NOT KNOWN WHEN SUBMITTING PROPOSAL IF THE CONDITION WAS OBVIOUS AND COULD HAVE BEEN DISCOVERED DURING A SITE VISIT.

**SYMBOLS LEGEND**

- POC POINT OF CONNECTION
- POR POINT OF RETURN
- Detail Designation
- WC-1 PLUMBING FIXTURE DESIGNATION
- X/XXXX ELEVATION DETAIL DESIGNATION
- Revision Designation

**MISC. CODE NOTES**

- PERMITS SHALL BE APPLIED FOR BY LICENSED CONTRACTOR.
- ANY CONTRACTOR WHO DESIRES TO INSTALL, ENLARGE, ALTER, REPAIR, MOVE OR REPLACE A PLUMBING SYSTEM, WHICH IS TO BE REGULATED BY THE CODE SHALL FIRST MAKE APPLICATION AND OBTAIN THE REQUIRED PERMIT FOR THE WORK.
- PLUMBING PLANS & INSTALLATION SUBJECT TO PLUMBING INSPECTOR'S COMMENTS & FIELD APPROVAL.
- FLOOR DRAINS LOCATED IN SUCH AREAS WHERE TRAPS WILL NOT BE REPLENISHED SHALL HAVE EITHER A MINIMUM 12" DEEP SEAL TRAP, TRAP PRIMER, OR BE ON AN INDIRECT SYSTEM.
- ALL OF PLUMBING SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH 2009 MEMPHIS & SHELBY COUNTY JOINT PLUMBING CODE, ADJUSTMENTS, PLUMBING INSPECTORS & PLANS EXAMINERS REVIEW.
- PLUMBING CONTRACTOR SHALL PROVIDE INDIRECT WASTE OPENING TO WITHIN 2 FEET OF ALL COOLING COILS & EVAPORATORS FOR CONDENSATE. ROUTE TO HOUSE SIDE OF ACTIVE TRAP & CONNECT TO SAME. VERIFY LOCATIONS IN FIELD WITH HVAC CONTRACTOR PRIOR TO BEGINNING INSTALLATION OF SYSTEMS.
- WATER SUPPLY & SEWER SHALL BE PERMITTED & INSPECTED THROUGH PLUMBING DEPARTMENT.

**DRAWING LIST**

- P000 PLUMBING GENERAL NOTES, SCHEDULES AND DETAILS
- P200 PLUMBING UNDERGROUND FLOOR PLAN
- P201 PLUMBING ABOVEGROUND FLOOR PLAN
- P301 PLUMBING ISOMETRIC PLAN
- P401 PLUMBING DETAILS

**PLUMBING FIXTURE SCHEDULE**

SYMBOL	DESCRIPTION	SAN	VENT	H.W.	C.W.	BASIS OF DESIGN (OR APPROVED EQUAL)
WC-1	FLOOR MOUNTED ADA WATER CLOSET	4"	2"	-	1"	AMERICAN STANDARD 3043.001, FLOOR-MOUNTED UNIT WITH SLOAN 111-1.6/1.1 DUAL-FLUSH FLUSHOMETER AND CENTOCO 1500TSCC SEAT (COLOR-WHITE, LESS COVER). INSTALL PER ADA REQUIREMENTS.
L-1	WALL MOUNTED LAVATORY	1-1/4"	1-1/4"	1/2"	1/2"	AMERICAN STANDARD 0436.004US, WALL-MOUNTED UNIT WITH ZURN Z81000-XL-G-25M FAUCET, P-TRAP, TAILPIECE, AND SUPPLY STOPS, AND TRUEBRO LAV GUARD2 SUPPLY & P-TRAP INSULATION. INSTALL PER ADA REQUIREMENTS.
SK-1	SINK	1-1/2"	1-1/4"	1/2"	1/2"	ELKAY DLR332212, DOUBLE BOWL, STAINLESS STEEL SINK, WITH ZURN Z831C4-XL FAUCET WITH SWIVEL SPOUT, ADA LEVER HANDLES, P-TRAP, ZURN 8803-LR SUPPLY STOPS AND KEENEY 1435SS BASKET STAINER. CONNECT GD-1 TO RIGHT BOWL.
SK-2	SERVICE SINK	1-1/2"	1-1/4"	1/2"	1/2"	JUST J-127, SINGLE COMPARTMENT, STAINLESS STEEL, FREESTANDING SINK WITH STAINLESS STEEL LEGS. PROVIDE ZURN Z843C4-16F FAUCET.
EDF-1	ELECTRIC DRINKING FOUNTAIN	1-1/2"	1-1/4"	-	1/2"	ELKAY VRCGRNTL8C, BI-LEVEL, WALL-MOUNTED DRINKING FOUNTAIN WITH ZURN Z1225 CARRIER. PROVIDE P-TRAP. INSTALL PER ADA REQUIREMENTS.
GD-1	GARBAGE DISPOSAL	1-1/2"	-	-	-	INSINKERATOR BADGER 1 GARBAGE DISPOSAL, 1/3 HP, 120V/60, CONTINUOUS OPERATION UNIT WITH DISHWASHER DRAIN CONNECTION. COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE DEDICATE OUTLET UNDER SINK WITH WALL SWITCH ABOVE COUNTER.
SS/EW-1	COMBINATION SAFETY SHOWER/ EYEWASH	1-1/4"	1-1/4"	-	1-1/4"	GUARDIAN G1902P, SAFETY STATION WITH PLASTIC EYEWASH BOWL. SHOWER HEAD SHALL BE 10" PLASTIC UNIT. EYEWASH BOWL SHALL BE 10" PLASTIC BOWL.
FD-1	FLOOR DRAIN	SEE FLOOR PLAN	SEE FLOOR PLAN	-	-	WATTS FD-200-A CAST IRON FLOOR DRAIN WITH DEEP SEAL TRAP.
HD-1	HUB DRAIN	SEE FLOOR PLAN	SEE FLOOR PLAN	-	-	WATTS FD-200-DD CAST IRON FLOOR DRAIN WITH HUB FUNNEL AND DEEP SEAL TRAP.
HB-1	HOSE BIBB	-	-	-	3/4"	ZURN Z1341 BRONZE, EXPOSED ANTI-SIPHON WALL FAUCET WITH EXTERNAL VACUUM BREAKER.
WH-1	WALL HYDRANT	-	-	-	3/4"	ZURN Z1305 NON-FREEZE, ENCASED WALL HYDRANT WITH SELF DRAINING INTEGRAL VACUUM BREAKER, BRONZE ENCASING, AND KEY OPERATION. UNIT HAS BE CONNECTED TO PRESSURE WASHER.
OB-1	ICEMAKER OUTLET BOX	-	-	-	1/2"	IPS CORPORATION AB97000HA ICEMAKER OUTLET BOX WITH MIP VALVE AND WATER HAMMER ARRESTER.
BFP-1	BACKFLOW PREVENTER	-	-	-	2"	WATTS LF009S, REDUCED PRESSURE ZONE ASSEMBLY, WITH STRAINER AND AIR GAP FITTING. UNIT SHALL BE LEAD FREE WITH SHUTOFF VALVES AND TEST COCKS.
BFP-2	BACKFLOW PREVENTER	-	-	-	2"	WATTS LF009S, REDUCED PRESSURE ZONE ASSEMBLY, WITH STRAINER AND AIR GAP FITTING. UNIT SHALL BE LEAD FREE WITH SHUTOFF VALVES AND TEST COCKS.
OI-1	OIL INTERCEPTOR	4"	2"	-	-	PROCEPTOR OMC150, FIBERGLASS-REINFORCED PLASTIC UNIT WITH MINIMUM THICKNESS OF 1/4" WALL, SCHEDULE 40 PVC PIPING. EXTENSION COLLAR TO MEET FINISHED GRADE. THE UNIT SHALL HAVE A CAPACITY OF 150 GALLONS AND BE SUITABLE FOR HEAVY TRAFFIC LOADS (H20). PROVIDE COORDINATED RISER HEIGHT WITH CIVIL. COORDINATED CONTRETE THICKNESS WITH STRUCTURAL.
HR-1	COMPRESSED AIR HOSE REEL	-	-	-	-	GRACO XD SERIES, 50 FT HOSE REEL, RATED FOR 300 PSI
HR-2	VEHICLE FLUID HOSE REEL	-	-	-	-	OFCI, EXISTING HOSE REEL

**AIR COMPRESSOR SCHEDULE**

SYMBOL	TYPE	HP	TANK SIZE (GALLONS)	ELECTRICAL V/PH/Hz	REQUIRED CAPACITY (SCFM)	REQUIRED PRESSURE (PSI)	TANK OUTLET (IN)	BASIS OF DESIGN
AC-1	ROTARY SCREW	30	N/A	208/3/60	125	125	1"	INGERSOLL RAND UP6 30-125
AC-2	TWO-STAGE	10	-	230/3/60	-	-	1"	RELOCATED EXISTING UNIT

- NOTES:
- AC-1 SHALL BE A BASE-MOUNTED UNIT WITH INTERGRATED AIR DRYER & FILTER.
  - RELOCATE EXISTING STORAGE TANK FOR AC-1.
  - AC-2 IS A BACK-UP UNIT FOR AC-1.

**WATER HEATER SCHEDULE**

SYMBOL	TYPE	INPUT (kW)	ELECTRICAL V/PH/Hz	HOT WATER CAPACITY (GPH)	STORAGE TANK (GAL)	RECOVERY DEGREE RISE	BASIS OF DESIGN
DWH-1	ELECTRIC STORAGE	3	208/3/60	15.0	30.0	70	STATE PCE 30 20LSA

- NOTES:
- RECOVERY RATES ARE MINIMUM.

**PUMP SCHEDULE**

SYMBOL	ELECTRICAL V/PH/Hz	WATTS	FLOW RATE (GPM)	PRESSURE CAPACITY (FT)	INLET/ OUTLET SIZE (IN)	BASIS OF DESIGN
DHWRP-1	120/1/60	52	5.0	5	1/2"	BELL & GOSSETT NBF-12U/LW

- NOTES: 1. PROVIDE TIMER & AQUASTAT



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MECHANICAL, PLUMBING, & ELECTRICAL



INNOVATIVE ENGINEERING SERVICES, LLC

2787 Stage Center Dr. Suite 101  
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 www.innovativees-llc.com

Mark Date Description

REVISIONS

CLIENT

SHELBY COUNTY SUPPORT SERVICES  
 584 ADAMS  
 MEMPHIS, TENNESSEE 38103

PROJECT NAME

FIRE FLEET MAINTENANCE FACILITY

Project No. 2015478  
 Date Issued 02/19/16  
 Drawing Scale  
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DRAWING TITLE

PLUMBING GENERAL NOTES, LEGEND, SCHEDULES AND DETAILS

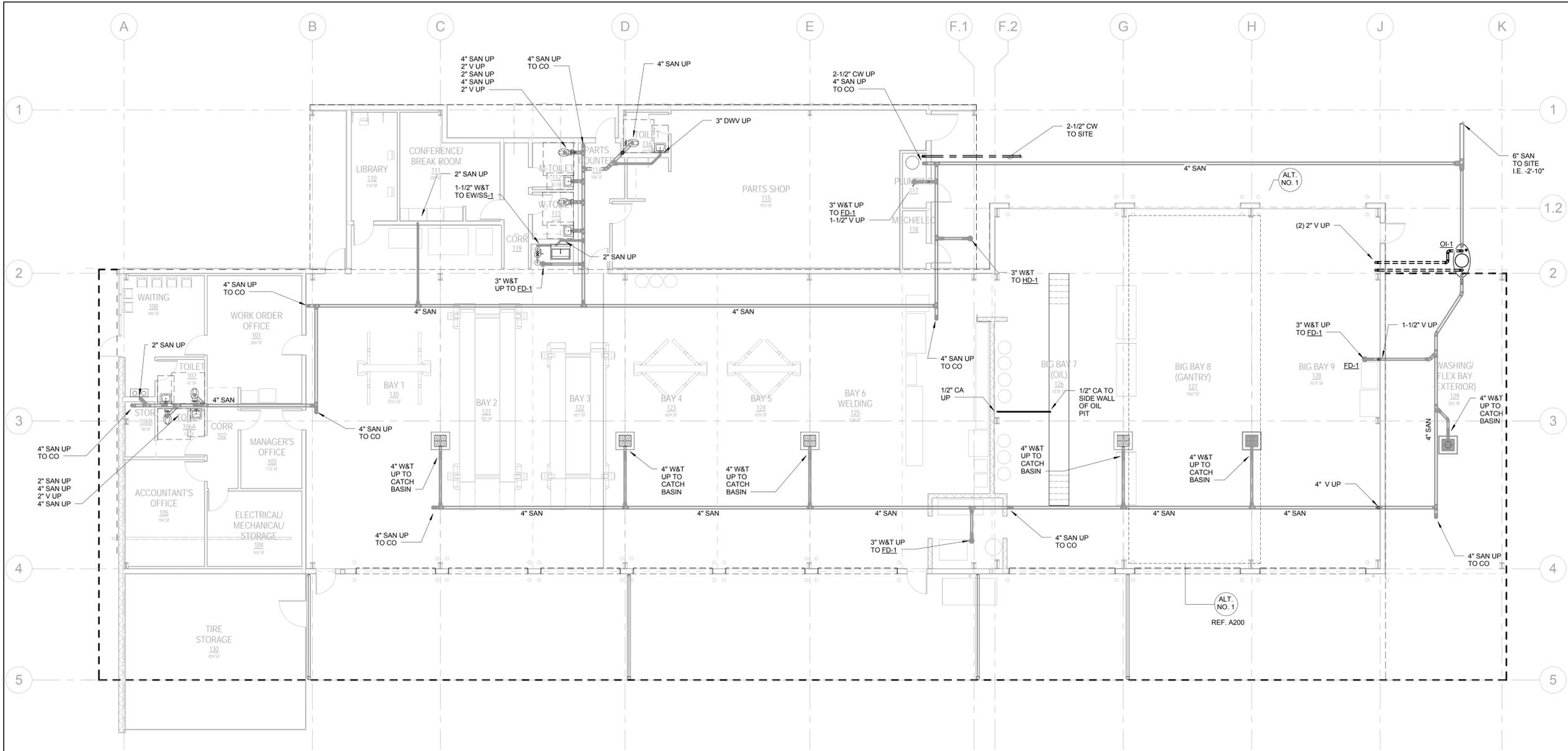
SEALS



CONSTRUCTION DOCUMENTS

SHEET ID

P000



1 PLUMBING UNDERGROUND FLOOR PLAN  
 1/8" = 1'-0"

**GENERAL NOTES**

- A. COORDINATE ALL EQUIPMENT LOCATIONS CONNECTION POINTS WITH OWNER.
- B. SEE A200 ADD ALTERNATIVE INFORMATION.

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Mark	Date	Description
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CLIENT		

SHELBY COUNTY SUPPORT SERVICES  
 584 ADAMS  
 MEMPHIS, TENNESSEE 38103

PROJECT NAME  
**FIRE FLEET  
 MAINTENANCE  
 FACILITY**

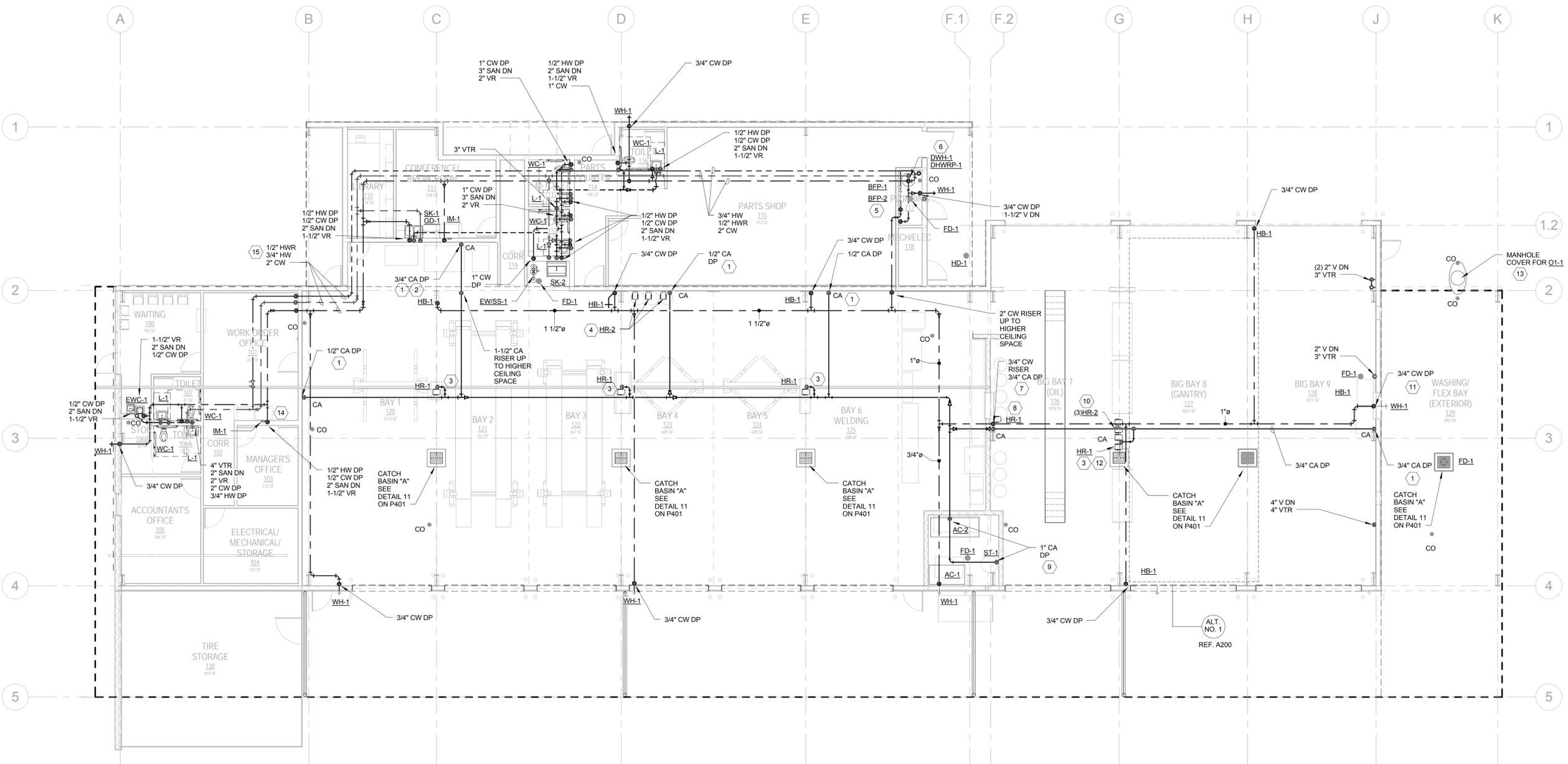
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 Drawing Scale 1/8" = 1'-0"  
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DRAWING TITLE  
**PLUMBING  
 ABOVEGROUND  
 FLOOR PLAN**



CONSTRUCTION DOCUMENTS

SHEET ID  
**P201**



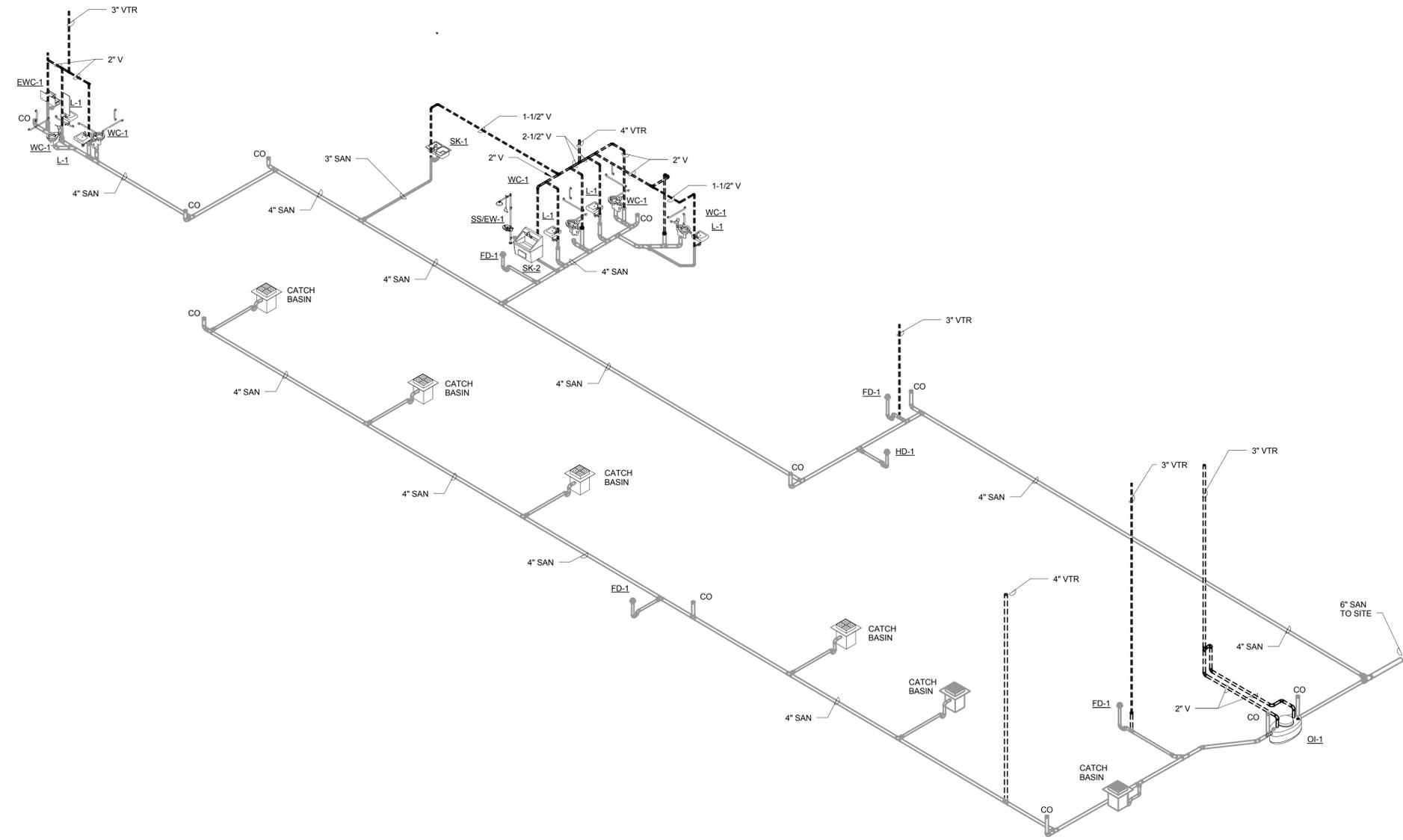
1 PLUMBING ABOVEGROUND FLOOR PLAN  
 1/8" = 1'-0"

**GENERAL NOTES**

- A. COORDINATE ALL EQUIPMENT LOCATIONS CONNECTION POINTS WITH OWNER.
- B. SEE A200 ADD FOR ALTERNATIVE INFORMATION.

**NOTES THIS DRAWING:**

1. PROVIDE DROP DOWN TO APPROXIMATELY 30" AFF. SEE DETAIL 10 ON SHEET P401 FOR TYPICAL PIPING ARRANGEMENT.
2. PROVIDE 1/2" CA TO TIRE MOUNT MACHINE. MOUNT HOSE REEL TO UNSTRUCTURE OF STRUCTURAL BEAM. SEE DETAIL 6 OF SHEET P401.
3. PROVIDE 1/2" CA TO HOSE REEL. MOUNT HOSE REEL TO WALL. SEE DETAIL 7 OF SHEET P401. PROVIDE 1/2" CA TO PUMPS ON FLUID DRUMS.
4. SEE DETAIL 4 ON SHEET P401 FOR BACKFLOW PREVENTER PIPING ARRANGEMENT.
5. SEE DETAIL 2 ON SHEET P401 FOR DOMESTIC WATER HEATER PIPING ARRANGEMENT.
6. ROUTE 1/2" CA DOWN BELOW SLAB TO SERVICE PIT TO SUPPLY GREASE GUNS.
7. MOUNT HOSE REEL TO WALL. SEE DETAIL 7 OF SHEET P401. PROVIDE 1/2" CA TO HOSE REEL PUMPS ON FLUID DRUMS.
8. 1-1/2" CA SUPPLY PIPING FROM AIR COMPRESSORS. PROVIDE A SHUTOFF VALVE IN EACH RISER.
9. MOUNT HOSE REELS IN HOSE REEL STAND. SEE DETAIL 8 ON SHEET P401. ROUTE A SUPPLY LINE FROM EACH OIL TANK TO ONE OF THE REELS. COORDINATE PIPE SIZE WITH VENDOR.
10. PROVIDE HOSE BIBB AT COLUMN TO SUPPLY PRESSURE. ROUTE DISCHARGE FROM PRESSURE WASHER TO WALL HYDRANT.
11. ROUTE 3/4" CA DOWN TO PUMPS FOR OIL TANKS. SEE DETAIL 5 ON SHEET P401 FOR OIL INTERCEPTOR INSTALLATION REQUIREMENTS.
12. PROVIDE 1/2" CW TO IM-1 AND COFFEE MAKER ON COUNTERTOP.
13. ROUTE PIPING ALONG WALL IN MAINTENANCE SHOP.



1 PLUMBING ISOMETRIC PLAN

Mark	Date	Description
REVISIONS		

CLIENT

SHELBY COUNTY SUPPORT SERVICES  
584 ADAMS  
MEMPHIS, TENNESSEE 38103

PROJECT NAME  
**FIRE FLEET  
MAINTENANCE  
FACILITY**

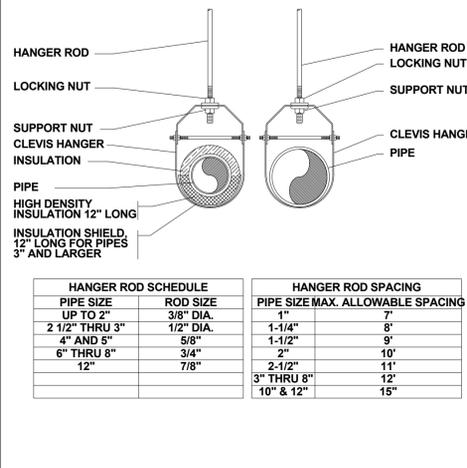
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**PLUMBING  
ISOMETRIC PLAN**



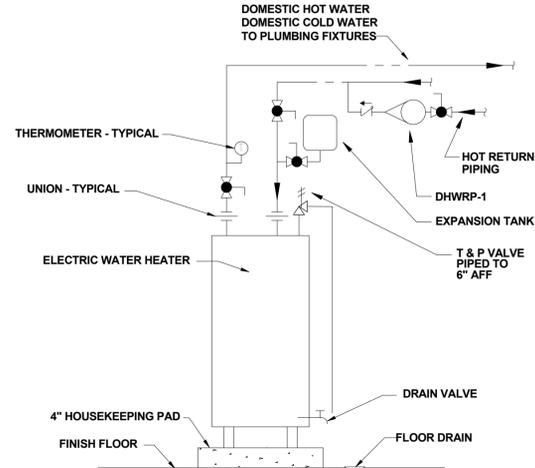
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DOCUMENTS

SHEET ID  
**P301**

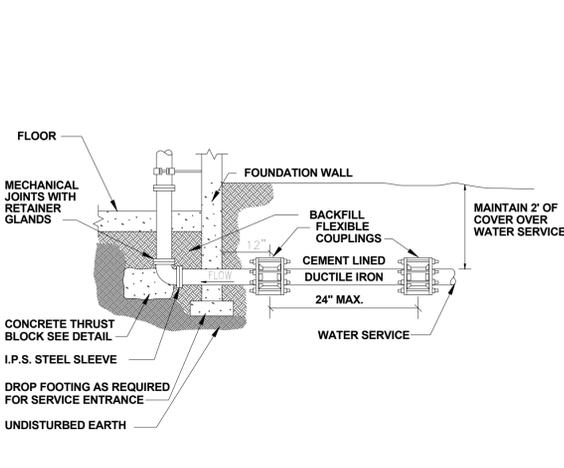


HANGER ROD SCHEDULE		HANGER ROD SPACING	
PIPE SIZE	ROD SIZE	PIPE SIZE	MAX. ALLOWABLE SPACING
UP TO 2"	3/8" DIA.	1"	7'
2 1/2" THRU 3"	1/2" DIA.	1-1/4"	8'
4" AND 5"	5/8"	1-1/2"	9'
6" THRU 8"	3/4"	2"	10'
12"	7/8"	2-1/2"	11'
		3" THRU 8"	12'
		10" & 12"	15'

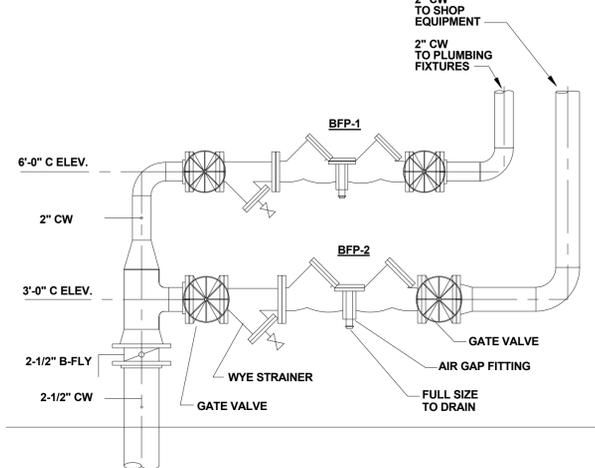
**1 PLUMBING/FIRE PROTECTION PIPE HANGER INSTALLATION**  
SCALE:NTS



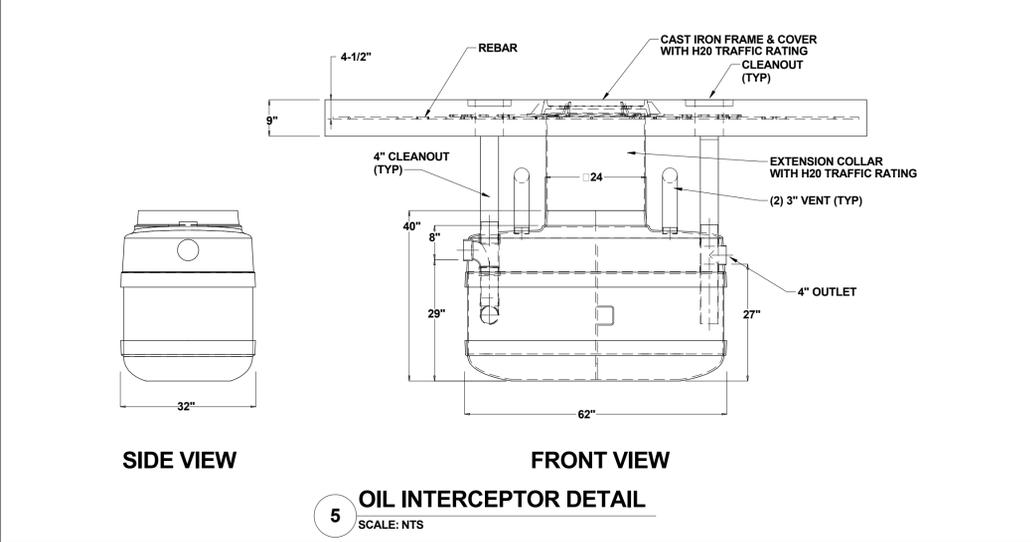
**2 TYPICAL WATER HEATER DETAIL**  
SCALE:NTS



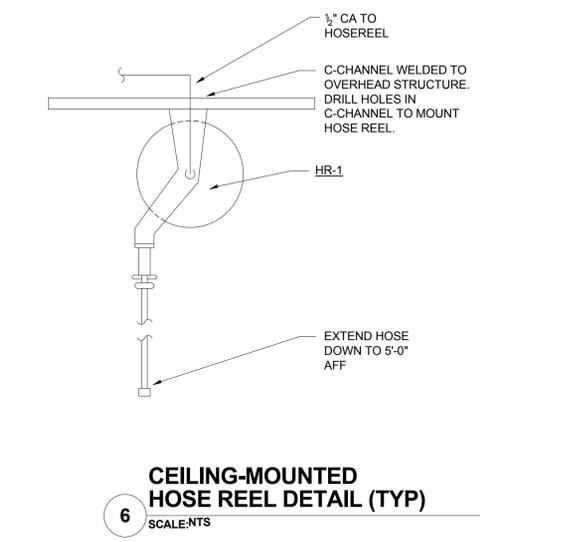
**3 WATER SERVICE ENTRANCE THROUGH FLOOR SLAB**  
SCALE:NTS



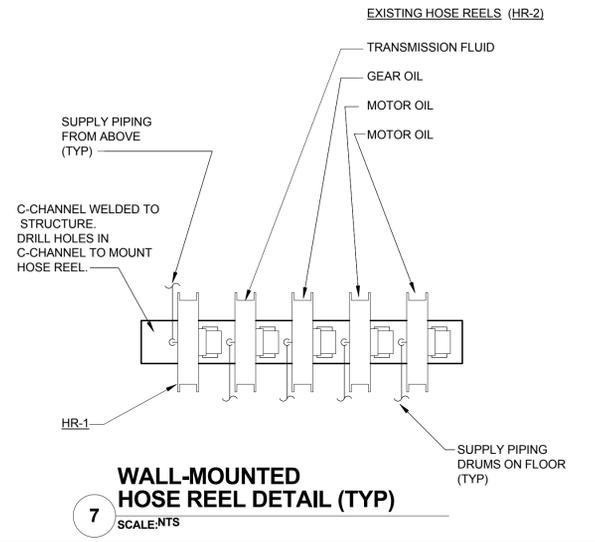
**4 BACKFLOW PREVENTER DETAIL**  
SCALE:NTS



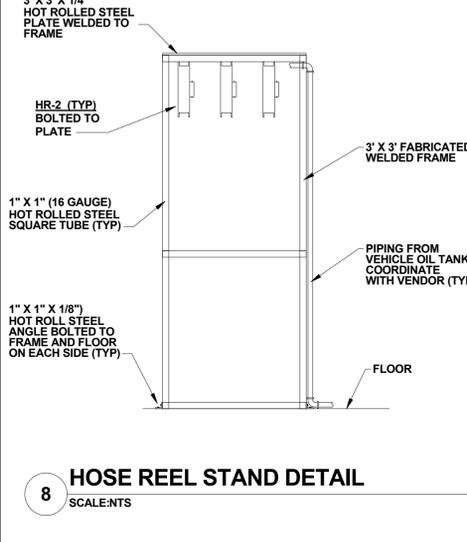
**5 OIL INTERCEPTOR DETAIL**  
SCALE: NTS



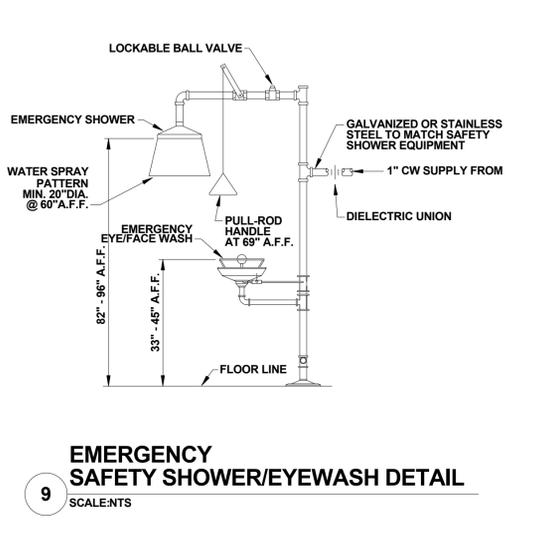
**6 CEILING-MOUNTED HOSE REEL DETAIL (TYP)**  
SCALE:NTS



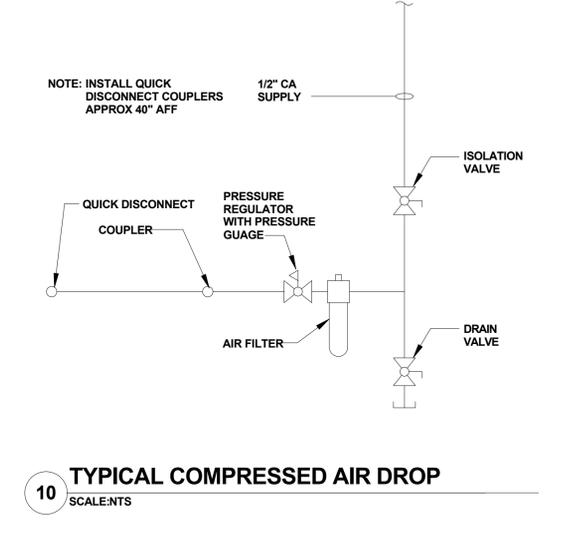
**7 WALL-MOUNTED HOSE REEL DETAIL (TYP)**  
SCALE:NTS



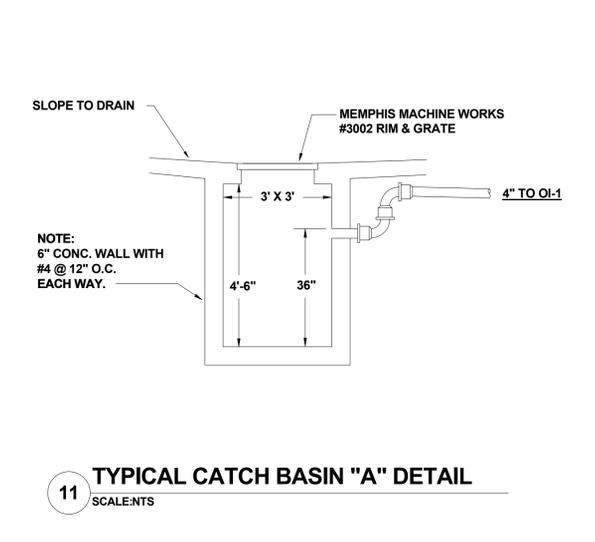
**8 HOSE REEL STAND DETAIL**  
SCALE:NTS



**9 EMERGENCY SAFETY SHOWER/EYEWASH DETAIL**  
SCALE:NTS



**10 TYPICAL COMPRESSED AIR DROP**  
SCALE:NTS



**11 TYPICAL CATCH BASIN 'A' DETAIL**  
SCALE:NTS



Mark	Date	Description
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SHELBY COUNTY SUPPORT SERVICES  
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 MEMPHIS, TENNESSEE 38103

PROJECT NAME

**FIRE FLEET MAINTENANCE FACILITY**

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DRAWING TITLE

**ELECTRICAL GENERAL NOTES, LEGEND, & DETAILS**

SEALS



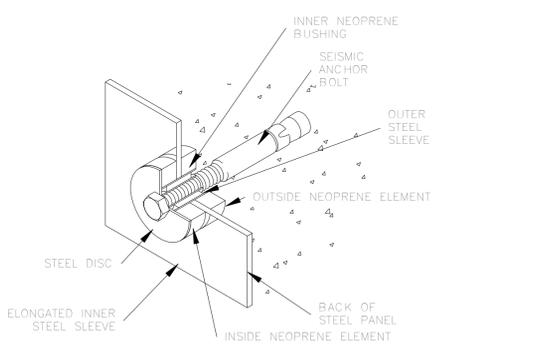
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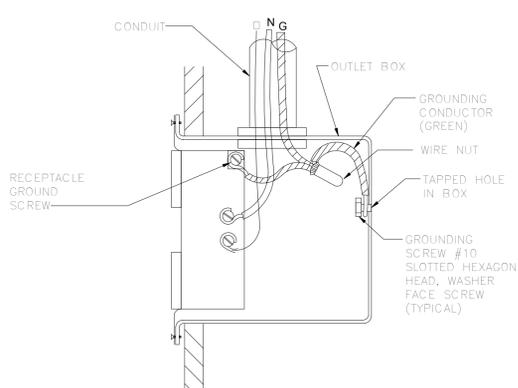
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**ELECTRICAL LEGEND**

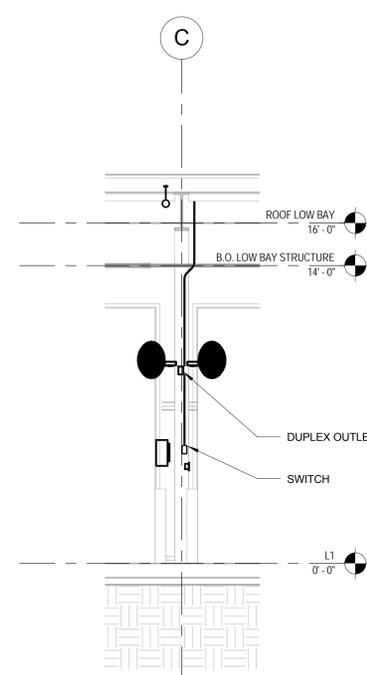
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
<b>LIGHTING</b>		<b>FIRE ALARM</b>		<b>ABBREVIATIONS</b>	
	FLUORESCENT LIGHTING FIXTURE (LETTER REFERENCES FIXTURE SCHEDULE)		FIRE ALARM SPEAKER & ADA SIGNAL LIGHT (80" MH)	A	AMPERE
	FLUORESCENT LIGHTING FIXTURE - DUAL SWITCHED		FIRE ALARM HORN & ADA SIGNAL LIGHT (80" MH)	AFF	ABOVE FINISHED FLOOR
	FLUORESCENT EMERGENCY LIGHTING FIXTURE		FIRE ALARM CHIME & ADA SIGNAL LIGHT (80" MH)	AFG	ABOVE FINISHED GRADE
	INCANDESCENT, FLUORESCENT OR H.I.D. LIGHTING FIXTURE (LETTER REFERENCES FIXTURE SCHEDULE)		CEILING MOUNTED FIRE ALARM SPEAKER & SIGNAL LIGHT	AIC	AMPERES INTERRUPTING CURRENT
	INCANDESCENT OR FLUORESCENT EMERGENCY LIGHTING FIXTURE		CEILING MOUNTED FIRE ALARM HORN & SIGNAL LIGHT	ANN	ANNUNCIATOR
	WALL MOUNTED LIGHTING FIXTURE		CEILING MOUNTED FIRE ALARM SPEAKER	AUX	AUXILIARY
	POLE MOUNTED LIGHTING FIXTURE		CEILING MOUNTED FIRE ALARM HORN & SIGNAL LIGHT	AWG	AMERICAN WIRE GAUGE
	EXIT SIGN (FURNISH WITH DUAL FACES AND DIRECTIONAL ARROWS WHERE INDICATED)		CEILING MOUNTED FIRE ALARM SPEAKER	C	CONDUIT
	EMERGENCY LIGHTING UNIT		CEILING MOUNTED FIRE ALARM HORN & SIGNAL LIGHT	CB	CIRCUIT BREAKER
	REMOTE EMERGENCY TWIN LIGHTING HEAD		CEILING MOUNTED FIRE ALARM SPEAKER	CKT	CIRCUIT
<b>SERVICE AND DISTRIBUTION</b>			CEILING MOUNTED FIRE ALARM HORN & SIGNAL LIGHT	CT	CURRENT TRANSFORMER
	SWITCHBOARD		CEILING MOUNTED FIRE ALARM SPEAKER	CU	COPPER
	DISTRIBUTION PANEL		CEILING MOUNTED FIRE ALARM HORN & SIGNAL LIGHT	DISC	DISCONNECT
	BRANCH CIRCUIT PANEL		CEILING MOUNTED FIRE ALARM SPEAKER	EDF	ELECTRIC DRINKING FOUNTAIN
	TRANSFORMER		CEILING MOUNTED FIRE ALARM HORN & SIGNAL LIGHT	FAAP	FIRE ALARM ANNUNCIATOR PANEL
	MOTOR CONNECTION		CEILING MOUNTED FIRE ALARM SPEAKER	FACP	FIRE ALARM CONTROL PANEL
	GENERATOR CONNECTION		CEILING MOUNTED FIRE ALARM HORN & SIGNAL LIGHT	FLA	FULL LOAD AMPS
	DISCONNECT SWITCH (FUSED AS REQUIRED)		CEILING MOUNTED FIRE ALARM SPEAKER	G	GROUND
	MOTOR CONTROLLER (SPECIFIED IN OTHER THAN DIV. 16)		CEILING MOUNTED FIRE ALARM HORN & SIGNAL LIGHT	GFI	GROUND FAULT CIRCUIT-INTERRUPTER
	COMBINATION MOTOR CONTROLLER & DISCONNECT SWITCH (SPECIFIED IN OTHER THAN DIV. 16)		CEILING MOUNTED FIRE ALARM SPEAKER	HZ	HERTZ
	EQUIPMENT NOT FURNISHED UNDER DIV. 16 (SPECIFIED IN OTHER THAN DIV. 16)		CEILING MOUNTED FIRE ALARM HORN & SIGNAL LIGHT	KCMIL	THOUSAND CIRCULAR MILS
	EQUIPMENT ELECTRICAL CONNECTION		CEILING MOUNTED FIRE ALARM SPEAKER	KVA	KILOVOLT-AMPERE
	AMMETER		CEILING MOUNTED FIRE ALARM HORN & SIGNAL LIGHT	KW	KILOWATT
	ELECTRIC METER		CEILING MOUNTED FIRE ALARM SPEAKER	LED	LIGHT EMITTING DIODE
	RELAY		CEILING MOUNTED FIRE ALARM HORN & SIGNAL LIGHT	MCC	MOTOR CONTROL CENTER
	CIRCUIT BREAKER		CEILING MOUNTED FIRE ALARM SPEAKER	MCP	MOTOR CIRCUIT PROTECTOR
	LIGHTING CONTACTOR		CEILING MOUNTED FIRE ALARM HORN & SIGNAL LIGHT	MLO	MAIN LUGS ONLY
	PHOTOCELL		CEILING MOUNTED FIRE ALARM SPEAKER	N	NEUTRAL
	THERMOSTAT		CEILING MOUNTED FIRE ALARM HORN & SIGNAL LIGHT	NEC	NATIONAL ELECTRIC CODE
<b>BASIC MATERIALS</b>			CEILING MOUNTED FIRE ALARM SPEAKER	PA	PUBLIC ADDRESS
	HOT (ENERGIZED) CONDUCTOR		CEILING MOUNTED FIRE ALARM HORN & SIGNAL LIGHT	PF	POWER FACTOR
	NEUTRAL CONDUCTOR		CEILING MOUNTED FIRE ALARM SPEAKER	SOWB	SPACE ONLY WITH BUS
	GROUND CONDUCTOR		CEILING MOUNTED FIRE ALARM HORN & SIGNAL LIGHT	UGE	UNDERGROUND ELECTRICAL
	WIRE & CONDUIT RUN EXPOSED		CEILING MOUNTED FIRE ALARM SPEAKER	V	VOLT
	WIRE & CONDUIT RUN IN OR UNDER FLOOR		CEILING MOUNTED FIRE ALARM HORN & SIGNAL LIGHT	VA	VOLT-AMPERES
	UNDERGROUND ELECTRICAL DUCTBANK OR CONDUIT		CEILING MOUNTED FIRE ALARM SPEAKER	VFD	VARIABLE FREQUENCY DRIVE
	WIRE & CONDUIT TURNED UP		CEILING MOUNTED FIRE ALARM HORN & SIGNAL LIGHT	WP	WEATHERPROOF
	WIRE & CONDUIT TURNED DOWN		CEILING MOUNTED FIRE ALARM SPEAKER	XFMR	TRANSFORMER
	LOW VOLTAGE WIRING RUN IN CONDUIT		CEILING MOUNTED FIRE ALARM HORN & SIGNAL LIGHT	3P	THREE POLE
	ELECTRICAL CONNECTION REQUIRED		CEILING MOUNTED FIRE ALARM SPEAKER	3PH	THREE PHASE
	DISCONNECT SWITCH		CEILING MOUNTED FIRE ALARM HORN & SIGNAL LIGHT	4W	FOUR WIRE
	JUNCTION BOX		CEILING MOUNTED FIRE ALARM SPEAKER	30/3	30 AMPERE, 3-POLE
	PUSHBUTTON		CEILING MOUNTED FIRE ALARM HORN & SIGNAL LIGHT		
	MANUAL MOTOR STARTER SWITCH		CEILING MOUNTED FIRE ALARM SPEAKER		
	SINGLE-POLE, SINGLE-THROW (S.P.S.T.) WALL SWITCH		CEILING MOUNTED FIRE ALARM HORN & SIGNAL LIGHT		
	KEYED WALL SWITCH		CEILING MOUNTED FIRE ALARM SPEAKER		
	WALL BOX DIMMER CONTROL		CEILING MOUNTED FIRE ALARM HORN & SIGNAL LIGHT		
	SINGLE-POLE, DOUBLE-THROW (S.P.D.T.) WALL SWITCH		CEILING MOUNTED FIRE ALARM SPEAKER		
	SINGLE RECEPTACLE IN WALL (NEMA 5-20R)		CEILING MOUNTED FIRE ALARM HORN & SIGNAL LIGHT		
	DUPLEX RECEPTACLE IN WALL (NEMA 5-20R)		CEILING MOUNTED FIRE ALARM SPEAKER		
	G.F.I. TYPE DUPLEX RECEPTACLE IN WALL 44" A.F.F. (NEMA 5-20R)		CEILING MOUNTED FIRE ALARM HORN & SIGNAL LIGHT		
	DUPLEX RECEPTACLE IN WALL, EMERGENCY CIRCUIT (NEMA 5-20R)		CEILING MOUNTED FIRE ALARM SPEAKER		
	DUPLEX RECEPTACLE IN FLOOR (NEMA 5-20R)		CEILING MOUNTED FIRE ALARM HORN & SIGNAL LIGHT		
	DOUBLE DUPLEX RECEPTACLE IN WALL (NEMA 5-20R)		CEILING MOUNTED FIRE ALARM SPEAKER		
	SPECIAL RECEPTACLE AS INDICATED		CEILING MOUNTED FIRE ALARM HORN & SIGNAL LIGHT		
	G.F.I. TYPE DUPLEX RECEPTACLE OUTDOORS (WEATHER PROOF)		CEILING MOUNTED FIRE ALARM SPEAKER		
		<b>COMMUNICATIONS</b>			
	DATA OUTLET WITH 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE		TELEPHONE OUTLET WITH 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE		
	COMBINATION TELEPHONE/DATA OUTLET IN FLOOR WITH 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE		MICROPHONE OUTLET IN WALL		
	MICROPHONE OUTLET IN FLOOR		CEILING MOUNTED SPEAKER		



1 PANELBOARD ANCHOR IN CONCRETE  
 E200 N.T.S.



2 RECEPTACLE BONDING DETAIL  
 E200 NO SCALE

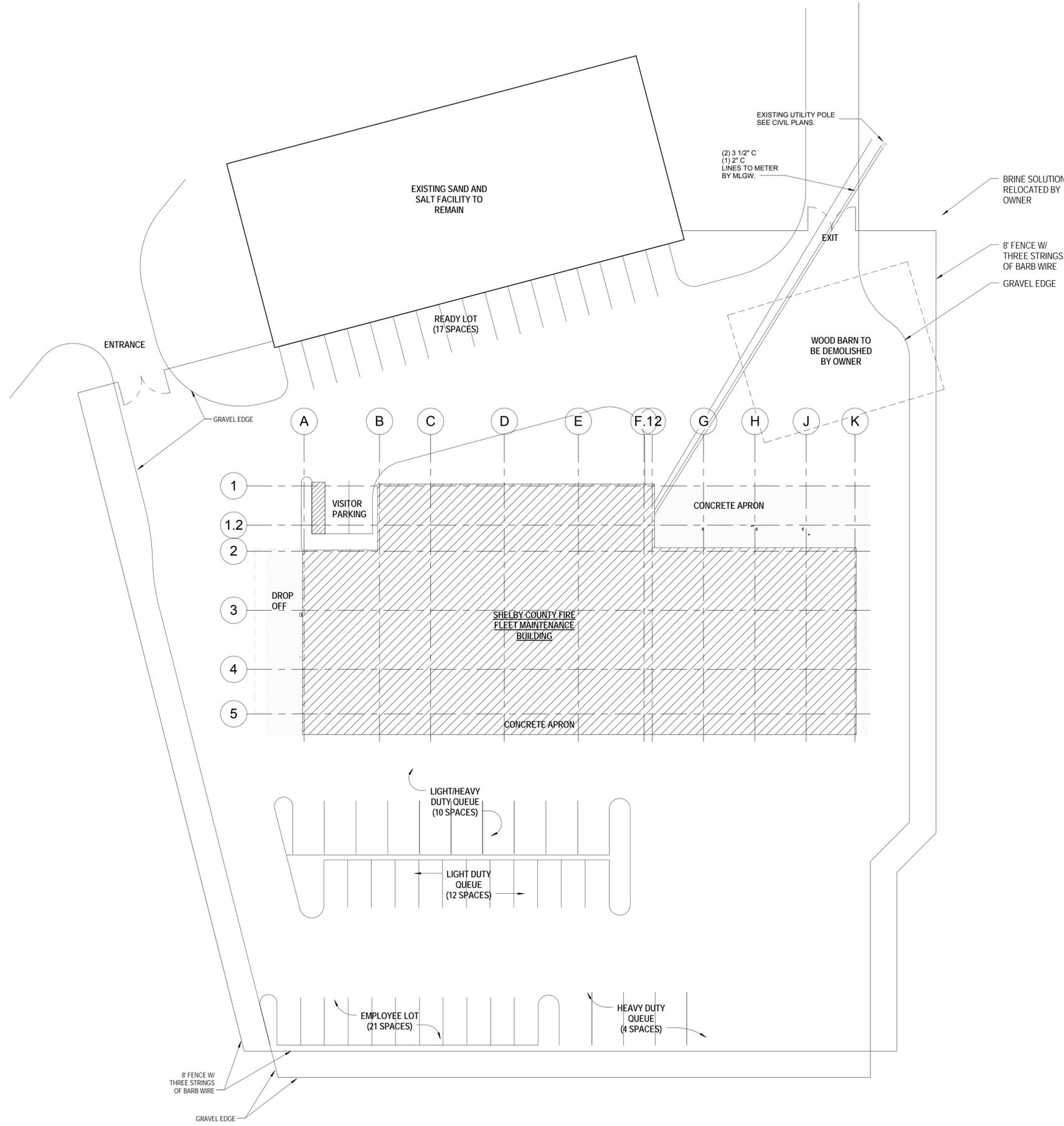


3 FAN SWITCHED OUTLET DETAIL  
 E100 N.T.S.

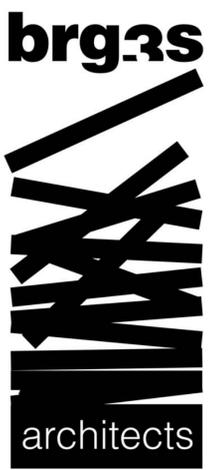
**GENERAL REFERENCE NOTES:**

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH DIVISION 16 SPECIFICATIONS, NATIONAL ELECTRICAL CODE, AND ALL OTHER APPLICABLE STANDARDS AND REGULATIONS AS ENFORCED BY THE AUTHORITY HAVING JURISDICTION.
- ALL ABOVE GROUND EXPOSED CONDUIT SHALL BE GALVANIZED RIGID STEEL CONDUIT WITH CORROSION RESISTANT FITTINGS, CLAMPS AND SUPPORTS.
- IN THE EVENT OF CONFLICTS BETWEEN THE DRAWINGS, SPECIFICATIONS, CODES AND REGULATIONS, NOTIFY THE ARCHITECT IN WRITING FOR ENGINEER OF RECORD'S OPINION PRIOR TO INSTALLATION.
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE CODE ENFORCEMENT OFFICE FOR APPROVAL AND TO THE ENGINEER FOR REVIEW.
- SMACNA SEISMIC RESTRAINT MANUAL, SECOND EDITION, OR LATEST REVISION MAY BE USED AS A GUIDE FOR GENERAL SEISMIC SUPPORT DETAIL AND SUPPORT SPACING RECOMMENDATIONS.
- COORDINATE LOCATION OF ALL LIGHTING FIXTURES, MECHANICAL EQUIPMENT AND ACCESS PANELS WITH ARCHITECTURAL REFLECTED CEILING PLANS PRIOR TO ROUGH-IN.
- REPLACE PARABOLIC LENS WITH ACRYLIC LENS FOR FIXTURES IN AREAS WHERE FIXTURES ARE RE-USED.
- WHILE GREAT EFFORT HAS BEEN MADE TO IDENTIFY CIRCUITS THAT MAY BE MODIFIED OR REMOVED, THE INFORMATION MAY NOT BE ACCURATE. ELECTRICAL CONTRACTOR SHALL VERIFY CIRCUITS FOR ALL NEW DEVICES AND EXISTING DEVICES THAT ARE REMOVED OR MODIFIED.

**GENERAL NOTES:**  
 1. COORDINATE WITH THE UTILITY COMPANY TO PROVIDE POWER FROM THE EXISTING POWER POLE TO THE BUILDING.



1 ELECTRICAL SITE PLAN  
 1" = 20'-0"



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 SERVICES, LLC  
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 www.innovativeies-llc.com

Mark	Date	Description
REVISIONS		

CLIENT

SHELBY COUNTY SUPPORT SERVICES  
 584 ADAMS  
 MEMPHIS, TENNESSEE 38103

PROJECT NAME  
**FIRE FLEET  
 MAINTENANCE  
 FACILITY**  
 Project No. 2015478  
 Date Issued 02/19/16  
 Drawing Scale 1" = 20'-0"  
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DRAWING TITLE  
**ELECTRICAL SITE  
 PLAN**



CONSTRUCTION DOCUMENTS

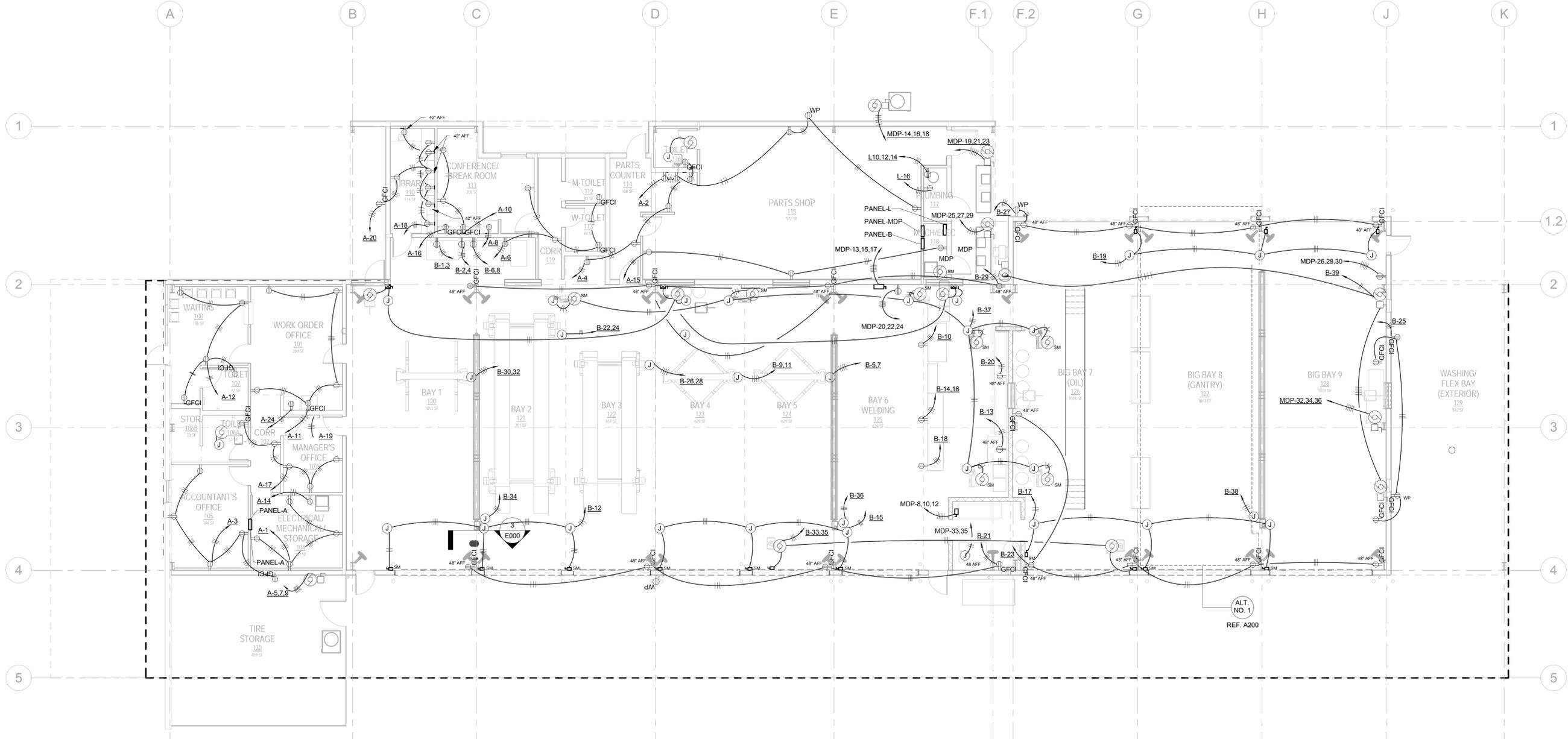
SHEET ID  
**E100**

2/19/2016 11:54:33 AM C:\Users\phagan\Documents\15070\_Shelby Co Fire Services Building MEP Central.phagan.rvt



**GENERAL NOTES:**

- EQUIPMENT CONNECTIONS SHOWN IN AREAS WITHOUT WALLS SHALL DROP FROM THE CEILING IN RIGID CONDUIT.
- VERIFY EXACT LOCATION OF EQUIPMENT WITH OWNER PRIOR TO FINAL ROUGH-IN.
- OPERABLE LOUVERS AND DAMPERS SHALL BE INTERLOCKED WITH ASSOCIATED EXHAUST FANS AND MAU.
- MOUNT ALL DEVICES IN THE SHOP AREAS A MINIMUM OF 48" AFF.
- SEE A200 ADD FOR ADD ALTERNATIVE #1 INFORMATION.



1 ELECTRICAL POWER FLOOR PLAN  
1/8" = 1'-0"



Mark	Date	Description
REVISIONS		

CLIENT

SHELBY COUNTY SUPPORT SERVICES  
584 ADAMS  
MEMPHIS, TENNESSEE 38103

PROJECT NAME

**FIRE FLEET  
MAINTENANCE  
FACILITY**

Project No. 2015478  
Date Issued 02/19/16  
Drawing Scale 1/8" = 1'-0"  
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DRAWING TITLE

**ELECTRICAL  
LIGHTING FLOOR  
PLAN**

SEALS

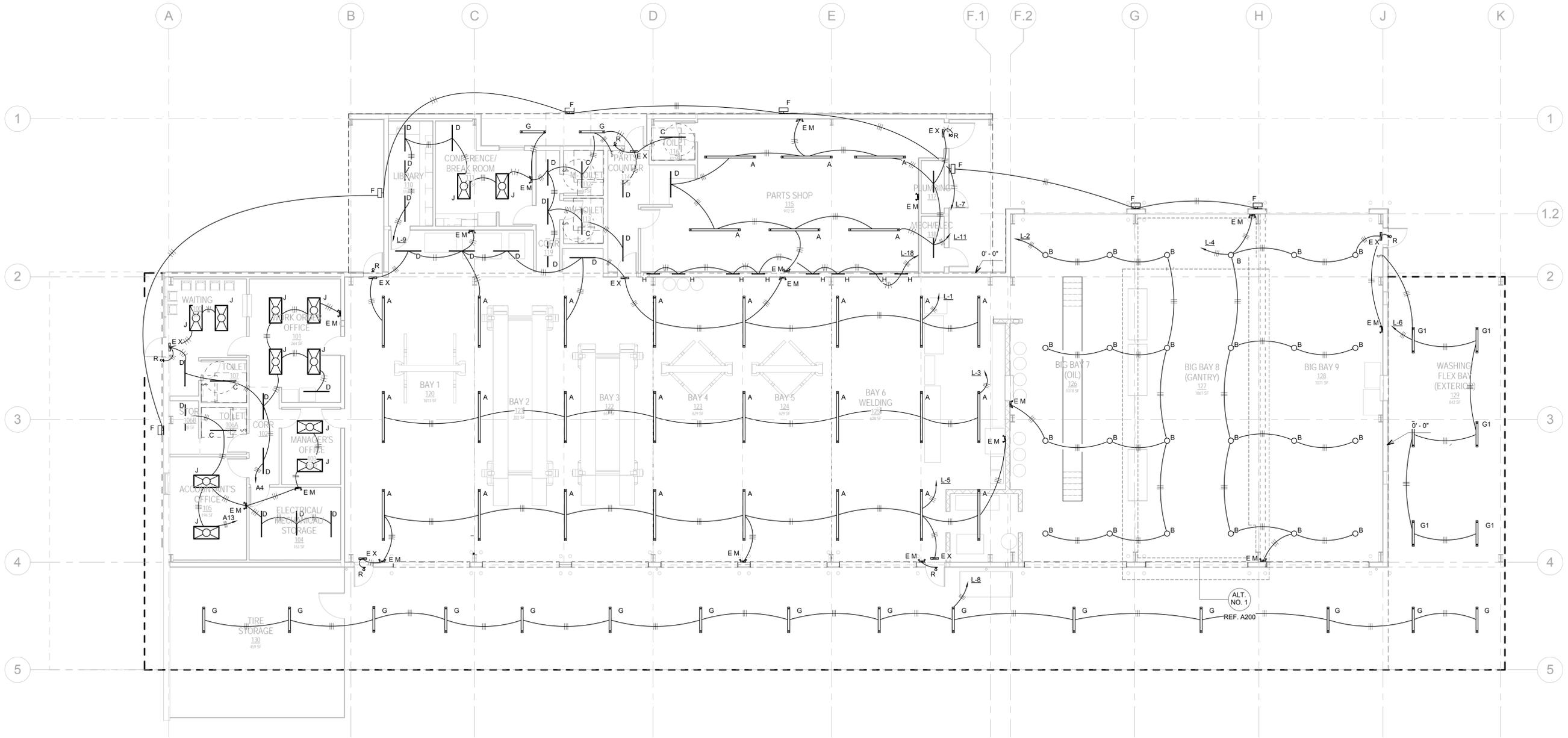


CONSTRUCTION  
DOCUMENTS

**E201**

**GENERAL NOTES:**

1. REFER TO DRAWING E401 FOR LIGHTING CONTROLS. ALL SENSORS AND SWITCHES ARE SHOWN ON E401.
2. EXTERIOR LIGHTS SHALL BE MOUNTED FLUSH TO STRUCTURE.
3. INTERIOR LIGHTS SHALL HANG FROM STEMS.
4. SEE A200 ADD FOR ADD ALTERNATIVE #1 INFORMATION.



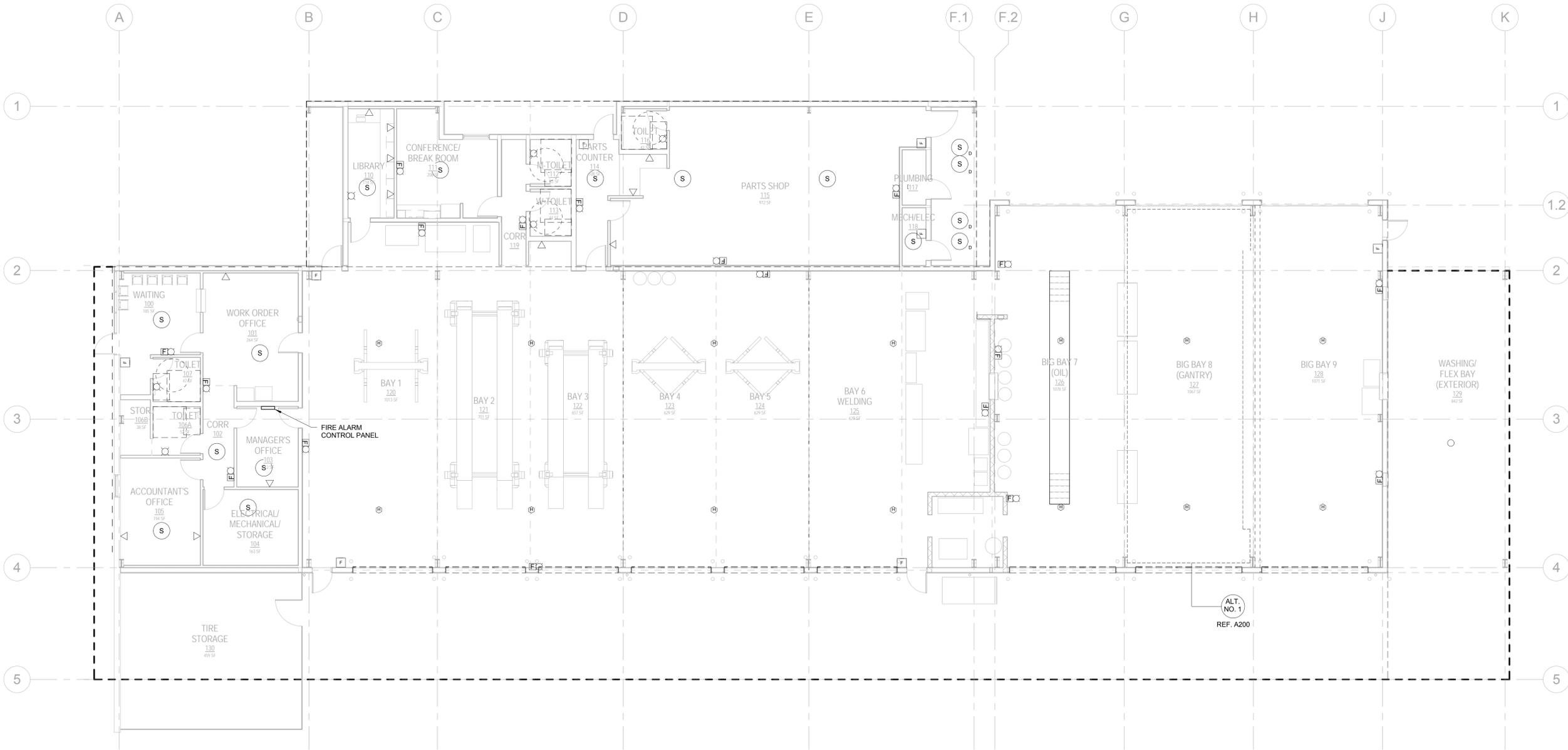
② ELECTRICAL LIGHTING FLOOR PLAN  
1/8" = 1'-0"





**GENERAL NOTES:**

1. PROVIDE ROUGH-IN FOR DATA OUTLETS AS SHOWN.
2. WHERE SHOWN, STROBES SHALL BE 15cd.
3. HORN STROBES IN OFFICE AREAS SHALL BE 30cd AND 90 db.
4. HORN STROBES IN SHOP AREA SHALL BE 110cd AND 90db.
5. SEE A200 FOR ADD ALTERNATIVE #1 INFORMATION.



1 ELECTRICAL COMMUNICATIONS FLOOR PLAN  
 1/8" = 1'-0"

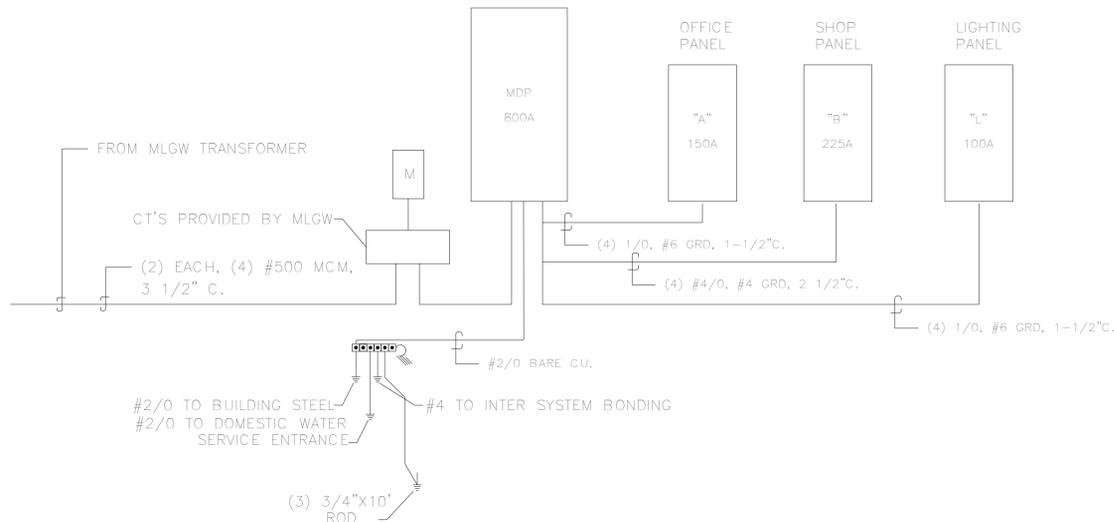
Label	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Lumens Per Lamp	Wattage
A	Lithonia Lighting	TMSL 8000LM SBL MVOLT GZ10-40K 90CR WH	TMSL 8000 LUMENS 4000K 90	LED	1	5,877	58
B	Lithonia Lighting	JHBL 12000LM WD GL 50K 70CRI	JHBL 12000LM WIDE DISTRIBUTION LENSED 70CRI 5000K CCT	LED ARRAY	1	14400.73	120.66
C	Lithonia Lighting	CA 2 32 MVOLT GEB10IS	FLUORESCENT WRAPAROUND FLUSH MOUNT	FLUORESCENT	2	2850	64
D	Lithonia Lighting	CA 1 32 MVOLT GEB10IS DSH24	FLUORESCENT STRIP LIGHT STEM HANGER	FLUORESCENT	1	2850	32
F	Lithonia Lighting	OLWP 11	OUTDOOR LED WALLPACK WITH 4000K LEDES AND POLYCARBONATE COVER/DIFFUSER	LED	1	1111.409	20.41
G	Lithonia Lighting	WL4 40L EZ1 LP840	CEILING MOUNTED HORIZONTAL LED FIXTURE SUITABLE FOR DAMP LOCATIONS. INCLUDES INTEGRAL PHOTOCCELL.	LED	1	4,325	39.5
G1	Lithonia Lighting	VAP 6000LM FST MD MVOLT GZ10-40K 90CRI	ROUGH SERVICE FIXTURE POLYCARBONATE ENCLOSURE FOR HIGH OUTPUT LED, MEDIUM DISTRIBUTION SPECULAR REFLECTOR	LED	1	5,648	64
H	Warehouse Lighting	WLIN PF 2 328 MV	48" WALL MOUNT FIXTURE.	FLUORESCENT	2	2850	64
J	Lithonia Lighting	ZGT8 4 32 A19 MVOLT	GENERAL PURPOSE T8 TROFFER, 2'X4', WITH FOUR LAMPS AND 0.156" THICK #A19 LENS	FLUORESCENT	4	2850	128
R		ELA T QWP	REMOTE FIXTURE	LED	2		1.5
EM	Lithonia Lighting	ELM6 LED W L P023VS	THERMOPLASTIC EMERGENCY LIGHT	LED	1		1.2
EX	Lithonia Lighting	LHOM LED R HO RD	EXIT LIGHT	LED	1		3.8

MDP											
LOCATION: BACK		VOLTAGE: 208/120		SYSTEM: 3PH, 4W		MAIN BKR. M.L.O. 800		CONN. LOAD: 273.3 KVA		FEED: BOTTOM GROUND BUS: 0	
LOAD SERVED	BKR	CKT	DMV	L1	L2	L3	DMV	BKR	LOAD SERVED		
PANEL "A"	350	1	1500	1	2	250			PANEL "B"		
"	3	3	1500	1	4				"		
"	5	5	1500	1	6				"		
PANEL "L"	100	7	1500	1	8	70			AIR COMP		
"	9	9	1500	1	10				"		
"	11	11	1500	1	12				"		
LARGE WELDER	350	13	1500	1	14	50			CU-2		
"	15	15	1500	1	16				"		
"	17	17	1500	1	18				"		
MAU-1	15	19	300	1	20	40			WELDER PLUG		
"	21	21	300	1	22				"		
"	23	23	300	1	24				"		
MAU-2	15	25	300	1	26	40			WELDER PLUG		
"	27	27	300	1	28				"		
"	29	29	300	1	30				"		
SPARE	31	31	300	1	32	30			STEAM CLEANER		
REFRIGERATED DRIVER	20	33	1500	1	34				"		
SPARE	35	35	1500	1	36				"		
SPARE	37	37	1500	1	38				SPARE		
SPARE	39	39	1500	1	40				SPARE		
SPARE	41	41	1500	1	42				SPARE		

PANEL A											
LOCATION: BACK		VOLTAGE: 208/120		SYSTEM: 3PH, 4W		MAIN BKR. M.L.O. 150A		CONN. LOAD: 23.9 KVA		FEED: TOP GROUND BUS: 0	
LOAD SERVED	BKR	CKT	DMV	L1	L2	L3	DMV	BKR	LOAD SERVED		
RECEPTACLES	20	1	1500	1	2				RECEPTACLES		
RECEPTACLES	20	3	1500	1	4				RECEPTACLES		
CU-1	30	5	1500	1	6				RECEPTACLES		
"	7	7	1500	1	8				REFRIG.		
"	9	9	1500	1	10				RECEPTACLES		
RECEPTACLES	20	11	1500	1	12				RECEPTACLES		
LIGHTS	20	13	1500	1	14	15			GF-1		
RECEPTACLES	20	15	1500	1	16				COFFEE MAKER		
RECEPTACLES	20	17	1500	1	18				LIBRARY RECEPTACLES		
FIRE ALARM CONTROL PANEL	20	19	1500	1	20				LIBRARY RECEPTACLES		
SPARE	20	21	1500	1	22				SPARE		
SPARE	20	23	1500	1	24				REFRIG.		

PANEL B											
LOCATION: BACK		VOLTAGE: 208/120		SYSTEM: 3PH, 4W		MAIN BKR. M.L.O. 225A		CONN. LOAD: 51.0 KVA		FEED: TOP GROUND BUS: 0	
LOAD SERVED	BKR	CKT	DMV	L1	L2	L3	DMV	BKR	LOAD SERVED		
TIRE BALANCER	30	1	1500	1	2				TIRE BALANCER		
"	3	3	1500	1	4				"		
ROTARY ARM LIFT (BAY 5)	30	5	1500	1	6				TIRE OFF MACHINE		
"	7	7	1500	1	8				"		
ROTARY ARM LIFT (BAY 6)	30	9	1500	1	10				BAND SAW		
"	11	11	1500	1	12				OVERHEAD DOORS		
DRILL PRESS	30	13	1500	1	14				LATHE		
OVERHEAD DOORS	30	15	1500	1	16				"		
OVERHEAD DOORS	30	17	1500	1	18				LATHE CONTROLLER		
OVERHEAD DOORS	30	19	1500	1	20				DRILL PRESS		
RECEPTACLES	30	21	1500	1	22				LIFT (BAY 6)		
RECEPTACLES	30	23	1500	1	24				"		
RECEPTACLES	30	25	1500	1	26				LIFT (BAY 1)		
RECEPTACLES	30	27	1500	1	28				"		
RECEPTACLES	30	29	1500	1	30				LIFT (BAY 4)		
EF-14.5	30	31	1500	1	32				"		
EF-44.8	30	33	1500	1	34				IRH-1		
"	35	35	1500	1	36				IRH-2		
IRH-1 THRU IRH-3	30	37	1500	1	38				IRH-3		
EF-7.15X11	30	39	1500	1	40				SPARE		
SPARE	30	41	1500	1	42				SPARE		

PANEL L											
LOCATION: BACK		VOLTAGE: 208/120		SYSTEM: 3PH, 4W		MAIN BKR. M.L.O. 100A		CONN. LOAD: 18.4 KVA		FEED: TOP GROUND BUS: 0	
LOAD SERVED	BKR	CKT	DMV	L1	L2	L3	DMV	BKR	LOAD SERVED		
SHOP LIGHTS	30	1	1500	1	2				HIGH BAY LIGHTS		
SHOP LIGHTS	30	3	1500	1	4				HIGH BAY LIGHTS		
SHOP LIGHTS	30	5	1500	1	6				WASH BAY LIGHTS		
FRONT OUTSIDE LIGHT	30	7	1500	1	8				BACK OUTSIDE LIGHTS		
COUNTER LIGHTS	30	9	1500	1	10				WATER HEATER		
PARTS LIGHTS	30	11	1500	1	12				"		
COOLING FANS	30	13	1500	1	14				"		
COOLING FANS	30	15	1500	1	16				WH CIRCULATOR PUMP		
COOLING FANS	30	17	1500	1	18				SHOP TASK LIGHTS		
COOLING FANS	30	19	1500	1	20				SPARE		
COOLING FANS	30	21	1500	1	22				SPARE		
COOLING FANS	30	23	1500	1	24				SPARE		



GENERAL NOTES  
1. SEE PANEL SCHEDULE.

1 RISER  
SCALE NTS

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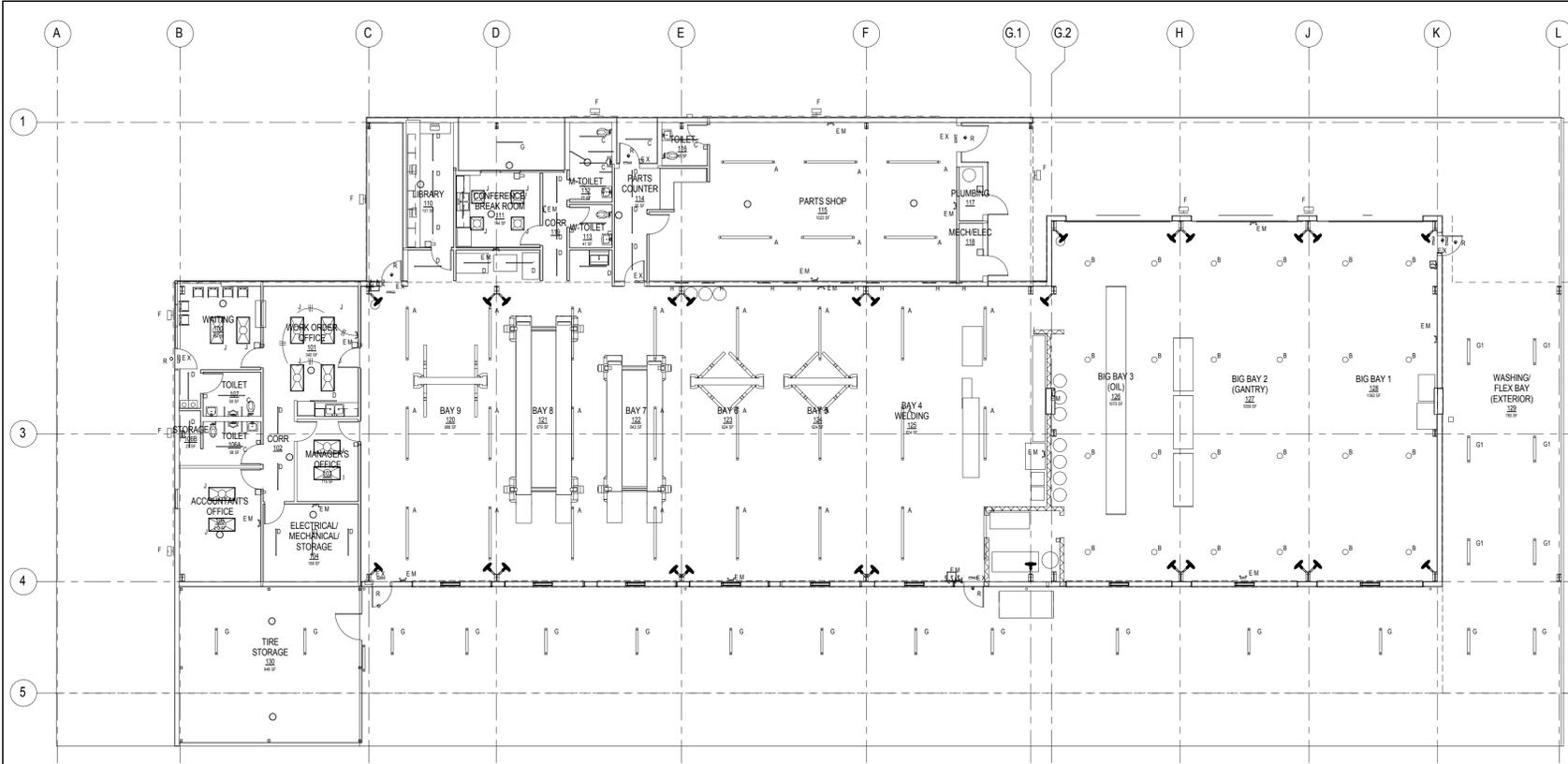
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SHELBY COUNTY SUPPORT SERVICES  
584 ADAMS  
MEMPHIS, TENNESSEE 38103

PROJECT NAME  
**FIRE FLEET MAINTENANCE FACILITY**  
Project No. 2015478  
Date Issued 02/19/16  
Drawing Scale  
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DRAWING TITLE  
**ELECTRICAL FIXTURE SCHEDULE AND PANEL SCHEDULES**

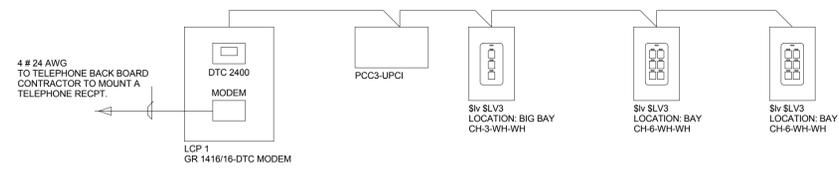
SEALS

SHEET ID  
CONSTRUCTION DOCUMENTS  
**E300**



- \$X-D** (Type SOSD) WSX D [COLOR]  
Wall Switch Decorator Sensor-Dual Tech, with 0-10v Dimming
- \$X** (Type SOS) WSX [COLOR]  
Wall Switch Decorator Sensor-Passive Infrared (PIR), w/Convertible Neutral/No Neutral Wiring
- \$XD** (Type SOSDT) WSX PDT [COLOR]  
Wall Switch Decorator Sensor-Dual Technology (PDT), w/Convertible Neutral/No Neutral Wiring;
- CRP** (Type COSDT) CMR PDT 9  
Standard Range 360° Sensor-Ceiling Mount, Line Voltage, Dual Technology (PDT)
- ISD** (Type \$D) ISD BC 120/277 [COLOR]  
SYNERGY Fluorescent and LED Fixture Wallbox Slide Dimmer;  
-BC Ballast Controller
- CH3** (Type \$LV3) LC&D #CH3 [button color(s)] [plate color]  
Chelsea Digital Switch, 3 Button
- CH6** (Type \$LV3) LC&D #CH6 [button color(s)] [plate color]  
Chelsea Digital Switch, 6 Button

**LIGHTING CONTROLS - LOW VOLTAGE SINGLE LINE**



**LIGHTING CONTROL SYSTEM SPECIFICATION:**

1. LIGHTING CONTROL SYSTEM SHALL BE DIGITAL (COMMUNICATIONS BASED) AND CONSIST OF A MASTER LCP WITH UP TO 48 INDIVIDUAL RELAYS, SLAVE LCPs WITH UP TO 48 INDIVIDUAL RELAYS IN EACH PANEL, A MICRO LCP WITH UP TO 4 INDIVIDUAL RELAYS AND DIMMED OUTPUTS (0-10V), DIGITAL SWITCHES (RS-485) AND DIGITAL INTERFACE CARDS. ALL SYSTEM COMPONENTS SHALL CONNECT AND BE CONTROLLED VIA A SINGLE CATEGORY 5, 4 TWISTED PAIR STRANDED CABLE PROVIDING REAL-TIME TWO-WAY COMMUNICATION WITH EACH SYSTEM COMPONENT. ANALOG SYSTEMS (CONTACT CLOSURE BASED) SHALL NOT BE ACCEPTABLE.
2. RELAY PANELS SHALL BE PRE-WIRED, PRE-ASSEMBLED, PRE-PROGRAMMED AND ETL LISTED TO UL 916 (OR ETL LISTED TO UL 924 WHEN PART OF AN EMERGENCY SYSTEM). PANELS SHALL BE PROVIDED WITH A SWITCH SELECTABLE POWER SUPPLY (277/120OFF) AND 16 GAGE BARRIERS TO SEPARATE 120V, 277V AND LOW VOLTAGE. NORMAL AND EMERGENCY POWER SHALL BE IN SEPARATE ENCLOSURES. 3. RELAYS SHALL HAVE NORMALLY CLOSED (NC) CONTACTS RATED FOR 120/277V 20A TUNGSTEN, BALLAST, OR HID. STANDARD RELAYS SHALL BE ZERO-CROSS TYPE. OPTIONAL 600V, 2-POLE RELAYS SHALL BE AVAILABLE.
4. ALL INCANDESCENT LIGHTING CIRCUITS SHALL BE CONTROLLED BY SOFTSTART NC RELAYS. NO EXCEPTIONS.
5. RELAY PANEL ELECTRONICS SHALL PROVIDE VISUAL STATUS AND MANUAL CONTROL OF EACH RELAY. ALL SYSTEM CONTROL ELECTRONICS SHALL STORE PROGRAMMING IN NON-VOLATILE MEMORY WITH 200 YEAR MEMORY RETENTION (AND A 10 YEAR TIME OF DAY MEMORY).
6. LIGHTING CONTROL SYSTEM SHALL CONSIST OF MASTER AND SLAVE PANEL(S) CONTROLLED BY A 32-CHANNEL DIGITAL TIME CLOCK (DTC) THAT CONTROLS AND PROGRAMS THE ENTIRE LIGHTING CONTROL SYSTEM. THE DTC SHALL SUPPLY ALL TIME FUNCTIONS AND ACCEPT INTERFACE INPUTS. THE DTC SHALL ACCEPT CONTROL LOCALLY USING BUILT IN BUTTON PROMPTS AND USE OF AN 8 LINE 21 CHARACTER DISPLAY, OR FROM A COMPUTER OR MODEM VIA AN ON-BOARD RS-232 PORT. ALL COMMANDS SHALL BE IN PLAIN ENGLISH. HELP PAGES SHALL DISPLAY ON THE DTC SCREEN.
7. ALL SWITCHES SHALL COMMUNICATE VIA RS-485. CONTACT CLOSURE STYLE SWITCHES ARE NOT ACCEPTABLE. ANY SWITCH BUTTON FUNCTION SHALL BE ABLE TO BE CHANGED LOCALLY (AT THE DTC OR A SERIALLY CONNECTED PC) OR REMOTELY, VIA DIAL-UP MODEM, ETHERNET, OR INTERNET. REFER TO SINGLE LINE DIAGRAM FOR WIRING DETAILS.
8. PHOTOCELL, EXTERIOR (PCO) OR INTERIOR (PCI), SHALL PROVIDE READ-OUT ON THE DTC SCREEN IN NUMERIC VALUES ANALOGOUS TO FOOT-CANDLES. EACH PHOTOCELL CARD SHALL PROVIDE A MINIMUM OF 14 TRIGGER POINTS. EACH TRIGGER MAY BE PROGRAMMED LOCALLY OR REMOTELY TO CONTROL ANY RELAY(S) OR ZONE(S) IN ANY PANEL(S). PHOTOCELLS THAT REQUIRE THE USE OF SET SCREWS OR MANUAL ADJUSTMENTS AT THE PHOTOCELL OR CONTROL CARD SHALL NOT BE ACCEPTABLE.
9. LIGHTING CONTROL SYSTEM INTERFACES TO INCLUDE A DRY-CONTACT INPUT INTERFACE, BAS INTERFACE (RS 232 OR RS 485), DIMMING SYSTEM INTERFACE (RS 232), ETHERNET, AND FIBER OPTIC MODEM. VERIFY AND INSTALL ONLY THOSE INTERFACES INDICATED ON THE PLANS.
10. STANDARD LIGHTING CONTROL SYSTEM SOFTWARE, PRE-INSTALLED INTO THE DTC, SHALL CONSIST OF AND USE STANDARD INTERACTIVE GRAPHICAL PAGES. SOFTWARE SHALL PROVIDE VIA LOCAL OR REMOTE PC A VISUAL REPRESENTATION OF EACH DEVICE ON THE BUS, SHOW REAL TIME STATUS AND THE ABILITY TO CHANGE THE STATUS OF ANY INDIVIDUAL DEVICE, RELAY OR ZONE. OPTIONAL SOFTWARE THAT ACCEPTS JOB SPECIFIC GRAPHICS SHALL BE AVAILABLE. NO EXCEPTIONS.
11. START UP: EC SHALL CONTACT LIGHTING CONTROL MANUFACTURER AT LEAST 7 DAYS BEFORE TURNOVER OF PROJECT. LIGHTING CONTROL MANUFACTURER WILL REMOTELY DIAL INTO THE LIGHTING CONTROL SYSTEM, RUN DIAGNOSTICS AND CONFIRM SYSTEM PROGRAMMING. EC SHALL BE AVAILABLE AT THE TIME OF DIAL IN TO PERFORM ANY CORRECTIONS REQUIRED BY MANUFACTURER. EC IS RESPONSIBLE FOR COORDINATING WITH GC AND THE OWNER THE INSTALLATION OF A DEDICATED TELEPHONE LINE OR A SHARED PHONE LINE WITH AN A/B SWITCH. PHONE JACK TO BE MOUNTED WITHIN 12" OF MASTER LCP LABEL JACK WITH PHONE NUMBER. EC TO CONNECT PHONE LINE FROM JACK TO MASTER LCP. NO EXCEPTIONS.
12. TELEPHONE FACTORY SUPPORT SHALL BE AVAILABLE AT NO ADDITIONAL COST TO THE EC OR OWNER BOTH DURING AND AFTER THE WARRANTY PERIOD. FACTORY TO PRE-PROGRAM THE LIGHTING CONTROL SYSTEM PER PLANS AND APPROVED SUBMITTAL. THE LIGHTING CONTROL MANUFACTURER, AT NO ADDED COST, SHALL PROVIDE ADDITIONAL PROGRAMMING VIA MODEM OR INTERNET AS REQUIRED BY THE EC OR OWNER FOR THE OPERATIONAL LIFE OF THE SYSTEM. MANUFACTURER WARRANTS THAT BOTH THE SYSTEM FIRMWARE AND SOFTWARE CAN BE UPGRADED AND MONITORED REMOTELY. UPON REQUEST MANUFACTURER TO PROVIDE REMOTE DIAL UP SOFTWARE AND ALL FUTURE FIRMWARE UPDATES TO SYSTEM OWNER. NO EXCEPTIONS.
13. SHOP DRAWINGS SUBMITTED BY MANUFACTURER SHALL BE JOB SPECIFIC, INCLUDING PANEL SWITCH AND TIME CLOCK SCHEDULES, SINGLE LINE DRAWINGS, AND SHALL BE AVAILABLE IN BOTH ELECTRONIC AND HARD COPY FORMAT. SUBMITTALS WHICH CONSIST OF TYPICAL SINGLE LINE DRAWINGS OR GENERAL PROGRAMMING INFORMATION SHALL NOT BE ACCEPTABLE.
14. LIGHTING CONTROL SYSTEM TO BE MANUFACTURED BY LIGHTING CONTROL & DESIGN, LOS ANGELES, CA. (800) 345-4448 OR SALES@LIGHTINGCONTROLS.COM OR APPROVED EQUAL.

Comments:

ID: LCP 1  
Location:  
Supply Circuit: Voltage: 120V Normal

Relay	Line Feed	Zone	Type	Voltage	Source	Description	Relay	Line Feed	Zone	Type	Voltage	Source	Description
1	-	NC	120V	Normal	Type G		2	-	NC	120V	Normal	Big Bay 1	
3	-	NC	120V	Normal	Type G		4	-	NC	120V	Normal	Big Bay 2	
5	-	NC	120V	Normal	Type G		6	-	NC	120V	Normal	Big Bay 3	
7	-	NC	120V	Normal	Type G1		8	-	NC	120V	Normal	Bay 4	
9	-	NC	120V	Normal	Bay 9		10	-	NC	120V	Normal	Bay 5	
11	-	NC	120V	Normal	Type F		12	-	NC	120V	Normal	Bay 6	
13	-	NC	120V	Normal	Type R		14	-	NC	120V	Normal	Bay 7	
15	-	NC	120V	Normal			16	-	NC	120V	Normal	Bay 8	

Part #: GR 1416/16-DTC MODEM  
Enclosure Dimensions: 18"H x 12"W x 6"D  
NEMA Rating: 1

**PANEL SCHEDULE - LCP 1**

Button	Name	Function	Zones Controlled	Color	Line 1	Line 2
1	BUTTON 1	Toggle	LCP 1:2	White		
2	BUTTON 2	Toggle	LCP 1:4	White		
3	BUTTON 3	Toggle	LCP 1:6	White		

ID: \$LV3  
Part #: CH-3-WH-WH  
Location: BIG BAY

**SWITCH SCHEDULE - \$LV3**

Button	Name	Function	Zones Controlled	Color	Line 1	Line 2
1	BUTTON 1	Toggle	LCP 1:8	White		
2	BUTTON 2	Toggle	LCP 1:10	White		
3	BUTTON 3	Toggle	LCP 1:12	White		
4	BUTTON 4	Toggle	LCP 1:14	White		
5	BUTTON 5	Toggle	LCP 1:16	White		
6	BUTTON 6	Toggle	LCP 1:9	White		

ID: \$LV3  
Part #: CH-6-WH-WH  
Location: BAY

**CIRCUIT BREAKER**

Button	Name	Function	Zones Controlled	Color	Line 1	Line 2
1	BUTTON 1	Toggle	LCP 1:8	White		
2	BUTTON 2	Toggle	LCP 1:10	White		
3	BUTTON 3	Toggle	LCP 1:12	White		
4	BUTTON 4	Toggle	LCP 1:14	White		
5	BUTTON 5	Toggle	LCP 1:16	White		
6	BUTTON 6	Toggle	LCP 1:9	White		

ID: \$LV3  
Part #: CH-6-WH-WH  
Location: BAY

**SWITCH SCHEDULE - \$LV3**

Button	Name	Function	Zones Controlled	Color	Line 1	Line 2
1	BUTTON 1	Toggle	LCP 1:8	White		
2	BUTTON 2	Toggle	LCP 1:10	White		
3	BUTTON 3	Toggle	LCP 1:12	White		
4	BUTTON 4	Toggle	LCP 1:14	White		
5	BUTTON 5	Toggle	LCP 1:16	White		
6	BUTTON 6	Toggle	LCP 1:9	White		

ID: \$LV3  
Part #: CH-6-WH-WH  
Location: BAY

**SWITCH SCHEDULE - \$LV3**

Button	Name	Function	Zones Controlled	Color	Line 1	Line 2
1	BUTTON 1	Toggle	LCP 1:8	White		
2	BUTTON 2	Toggle	LCP 1:10	White		
3	BUTTON 3	Toggle	LCP 1:12	White		
4	BUTTON 4	Toggle	LCP 1:14	White		
5	BUTTON 5	Toggle	LCP 1:16	White		
6	BUTTON 6	Toggle	LCP 1:9	White		

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Mark Date Description  
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584 ADAMS  
MEMPHIS, TENNESSEE 38103

PROJECT NAME  
**FIRE FLEET MAINTENANCE FACILITY**

Project No. 2015470  
Date Issued 02/19/16  
Drawing Scale  
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DRAWING TITLE  
**ELECTRICAL LIGHTING CONTROLS**

SEALS

SHEET ID  
**CONSTRUCTION DOCUMENTS**

**E401**