# WYOCENA FIRE DEPARTMENT ADDITION

## 284 S COLUMBUS STREET
## WYOCENA, WI 53969

L&P PROJECT NO: 26057

### GENERAL

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E402 ELECTRICAL LIGHTING & EQUIPMENT SHCEDULES


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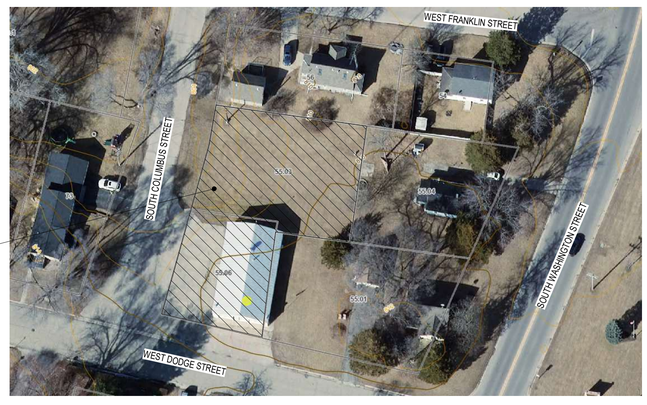
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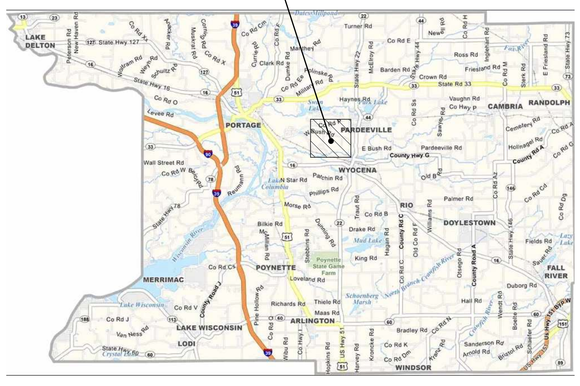
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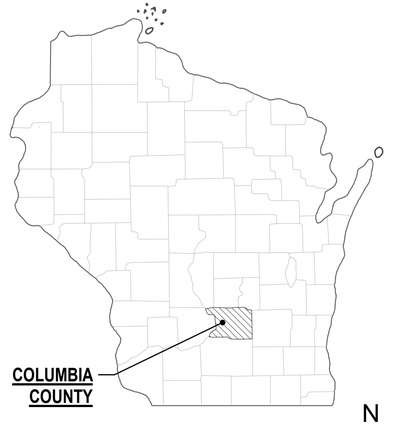

**PROJECT SITE:**
284 S COLUMBUS STREET
WYOCENA, WI 53969




**3 VICINITY MAP**
N.T.S.




**2 COLUMBIA COUNTY MAP**
N.T.S.




**1 STATE MAP**
N.T.S.


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WYOCENA FIRE DEPARTMENT ADDITION
284 S COLUMBUS STREET
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TITLE SHEET, SHEET INDEX, PROJECT LOCATION MAPS

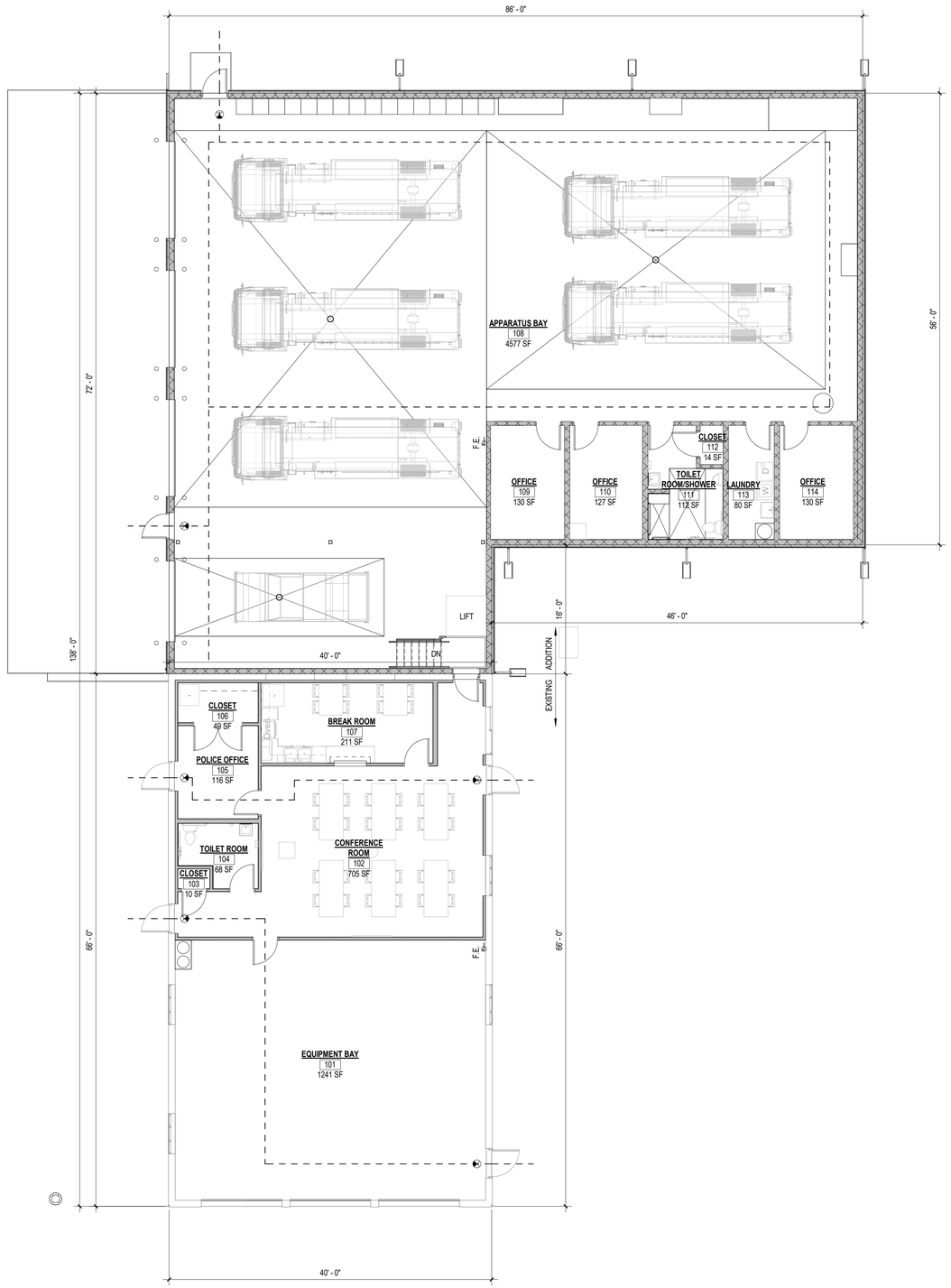
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NO. DATE

ISSUE DATE:
AUGUST 12, 2026

G101

L&P PROJECT # 26057

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## 1 EGRESS PLAN

1/8" = 1'-0"

N

| CODE ANALYSIS | | |
|---|---|---|
| BUILDING CODE | IBC 2021 AND IEBC 2021 | |
| ACCESSIBILITY CODE | ICC/ANSI A117.1-2017 | |
| BUILDING ENERGY CODE | IECC 2021 | |
| CONSTRUCTION TYPE | VB | |
| OCCUPANCY GROUP | S-2, B | |
| OCCUPANT LOAD | 31 | |
| ALLOWABLE BLDG HT & SF - NON SEPARATED USE | 1 STORY | B - 11,250 SF<br>S-2 - 16,875 SF |
| AREA INCREASE | 5,456 SF | |
| PROPOSED BLDG HT & SF - NON SEPARATED USE | 1 STORY | B - 2,278 SF<br>S-2 - 5,818 SF<br>TOTAL - 8,096 SF |
| FIRE SUPPRESSION | NONE | |
| MAX. TRAVEL DISTANCE | 200' | |
| EXITS (REQ'D/PROVIDED) | 2 | 5 |
| WORK AREA | 8,096 SF | |
| TOILET ROOM (REQ'D/PROVIDED) | 1 EA. | 2 UNISEX |

## CODE LEGEND

- EXIT LIGHT
- PATH OF EGRESS
- 1-HR FIRE RATING
- 2-HR FIRE RATING
- F.E.C. — FIRE EXTINGUISHER CABINET AND EXTINGUISHER
- F.E. — BRACKET-MOUNTED FIRE EXTINGUISHER


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WYOCENA FIRE DEPARTMENT
ADDITION
284 S COLUMBUS STREET
WYOCENA, WI 53969

EGRESS PLAN, CODE
ANAYLSIS, FFE PLANS

REVISIONS:

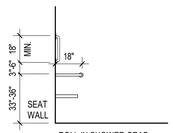
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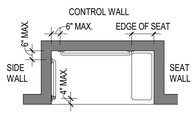
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L&P PROJECT # 26057

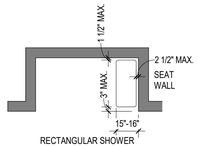

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ROLL IN SHOWER GRAB BARS - ELEVATION
*NOT NECESSARILY FIXTURE TYPE




ROLL IN SHOWER GRAB BARS - PLAN
*NOT NECESSARILY FIXTURE TYPE




RECTANGULAR SHOWER SEAT - PLAN
*NOT NECESSARILY FIXTURE TYPE

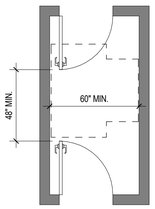
# 11 STANDARD SHOWER MOUNTING HEIGHTS

1/4" = 1'-0"

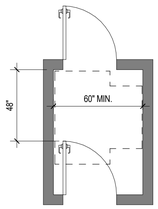
**DOORS IN SERIES**
- DISTANCE BETWEEN TWO HINGED OR PIVOTED GATES OR DOORS IN SERIES SHALL BE 48 INCHES MINIMUM PLUS THE WIDTH OF ANY DOOR OR GATE SWINGING INTO THE SPACE. THE SPACE BETWEEN THE DOORS SHALL PROVIDE A TURNING SPACE.




DOORS IN SERIES OPTION 1




DOORS IN SERIES OPTION 2

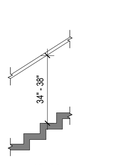



DOORS IN SERIES OPTION 3

# 10 DOORS IN SERIES

1/4" = 1'-0"

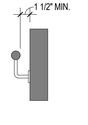
**HANDRAILS**
- HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS AND RAMPS. HANDRAILS ARE NOT REQUIRED IN ASSEMBLY SEATING AREAS ON BOTH SIDES ALONG AISLE STAIRS, PROVIDED WITH A HANDRAIL EITHER SIDE OR WITHIN THE AISLE NOR ON THE SIDES OF RAMPED AISLES SERVING SEATS IN ASSEMBLY SEATING AREAS.
- TOP OF GRIPPING SURFACES OF HANDRAILS SHALL BE 34 INCHES MINIMUM AND 38 INCHES MAXIMUM VERTICALLY ABOVE STAIR NOSING, RAMP SURFACES AND WALKING SURFACES. HANDRAILS SHALL BE AT A CONSISTENT HEIGHT ABOVE STAIR NOSINGS, RAMP SURFACES AND WALKING SURFACES.
- CLEARANCE BETWEEN HANDRAIL GRIPPING SURFACE AND ADJACENT SURFACES SHALL BE 1 1/2 INCHES MINIMUM.
- GRIPPING SURFACES SHALL BE CONTINUOUS, WITHOUT INTERRUPTION BY NEWEL POSTS, OTHER CONSTRUCTION ELEMENTS, OR OBSTRUCTIONS.




STAIRS




RAMPS

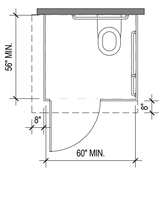



HANDRAIL CLEARANCE

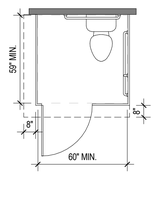
# 9 HANDRAILS

1/4" = 1'-0"

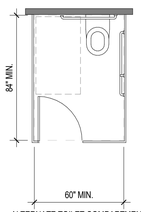
**WHEELCHAIR ACCESSIBLE COMPARTMENTS**
- THE MINIMUM AREA OF A WHEELCHAIR ACCESSIBLE COMPARTMENT SHALL BE 60 INCHES MINIMUM IN WIDTH MEASURED PERPENDICULAR TO THE SIDE WALL, AND 56 INCHES MINIMUM IN DEPTH FOR WALL HUNG WATER CLOSETS, AND 59 INCHES MINIMUM IN DEPTH FOR FLOOR MOUNTED WATER CLOSETS MEASURED PERPENDICULAR TO THE REAR WALL.
- IN AN ALTERNATE WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT, THE DOOR SHALL BE PERMITTED TO SWING INTO THE STALL WHERE A CLEAR FLOOR SPACE IS PROVIDED. THE COMPARTMENT SHALL BE 60 INCHES MINIMUM IN WIDTH MEASURED PERPINDICULAR TO THE SIDE WALL, AND 84 INCHES MINIMUM IN DEPTH, MEASURED PERPINDICULAR TO THE REAR WALL.
- TOILET COMPARTMENT DOOR, INCLUDING DOOR HARDWARE, SHALL COMPLY WITH THE REQUIRED CLEARANCES EXCEPT IF THE APPROACH IS TO THE LATCH SIDE OF THE COMPARTMENT DOOR CLEARANCE BETWEEN THE DOOR SIDE OF THE STALL AND ANY OBSTRUCTION SHALL BE 42 INCHES MINIMUM. THE DOOR SHALL BE SELF-CLOSING. TOILET COMPARTMENT DOORS SHALL NOT SWING INTO THE REQUIRED MINIMUM AREA OF THE COMPARTMENT.
- THE FRONT PARTITION AND AT LEASR ONE SIDE PARTITION OF A WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT SHALL PROVIDE A TOE CLEARANCE 12" MINIMUM ABOVE THE FLOOR AND EXTENDING 8 INCHES BEYOND THE COMPARTMENT SIDE FACE OF THE PARTITION, EXCLUSIVE OF PARTITION SUPPORT MEMBERS




WALL HUNG WATER CLOSET - ADULT




FLOOR-MOUNTED WATER CLOSET




ALTERNATE TOILET COMPARTMENT

# 8 TOILET COMPARTMENTS

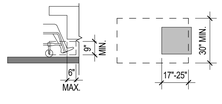
1/4" = 1'-0"

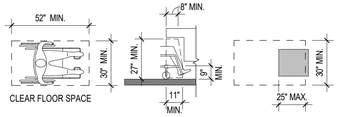
**KNEE AND TOE CLEARANCES**

TOE CLEARANCE:
- SPACE BENEATH AN ELEMENT BETWEEN THE FLOOR AND 9 INCHES ABOVE THE FLOOR SHALL BE CONSIDERED TOE CLEARANCE
- TOE CLEARANCE SHALL BE PERMITTED TO EXTEND 25 INCHES MAXIMUM UNDER AN ELEMENT.
- WHERE TOE CLEARANCE IS REQUIRED AT AN ELEMENT AS PART OF A CLEAR FLOOR SPACE COMPLYING WITH CLEAR FLOOR SPACE, THE TOE CLEARANCE SHALL EXTEND 17 INCHES MINIMUM BENEATH THE ELEMENT.
- SPACE EXTENDING GREATER THAN 6 INCHES BEYOND THE AVAILABLE KNEE CLEARANCE AT 9 INCHES ABOVE THE FLOOR SHALL NOT BE CONSIDERED TOE CLEARANCE.
- TOE CLEARANCE WIDTH SHALL BE 30 INCHES MINIMUM.

KNEE CLEARANCE:
- SPACE BENEATH AN ELEMENT BETWEEN 9 INCHES AND 27 INCHES ABOVE FLOOR SHALL BE CONSIDERED KNEE CLEARANCE.
- KNEE CLEARANCE DEPTH SHALL BE PERMITTED TO EXTEND 25 INCHES MAXIMUM UNDER AN ELEMENT AT 9 INCHES ABOVE THE FLOOR.
- WHERE KNEE CLEARANCE IS REQUIRED BENEATH AN ELEMENT AS PART OF A CLEAR FLOOR SPACE COMPLYING WITH CLEAR FLOOR SPACE, THE KNEE CLEARANCE SHALL BE 11 INCHES MINIMUM IN DEPTH AT 9 INCHES ABOVE THE FLOOR, AND 8 INCHES MINIMUM IN DEPTH AT 27 INCHES ABOVE THE FLOOR.
- BETWEEN 9 INCHES AND 27 INCHES ABOVE THE FLOOR, THE KNEE CLEARANCES SHALL BE PERMITTED TO BE REDUCED AT A RATE OF 1 INCH IN DEPTH FOR EACH 6 INCHES.
- KNEE CLEARANCE WIDTH SHALL BE 30 INCHES MINIMUM.

UNLESS OTHERWISE SPECIFIED, CLEAR FLOOR SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE.

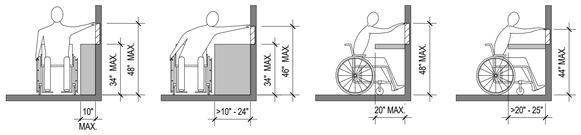



CLEAR FLOOR SPACE

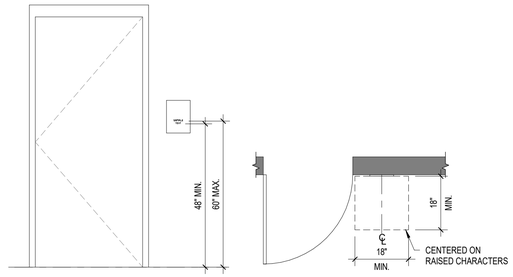
# 7 KNEE AND TOE CLEARANCE

1/4" = 1'-0"




# 6 UNOBSTRUCTED REACH RANGES

1/4" = 1'-0"




**NOTE:** SIGN AND SIGN INSTALLATION MUST COMPLY WITH CHAPTER 7 OF ANSI ICC A117.1-2017. SIGN TO MEET ALL ADA COMPLIANT REQUIREMENTS.

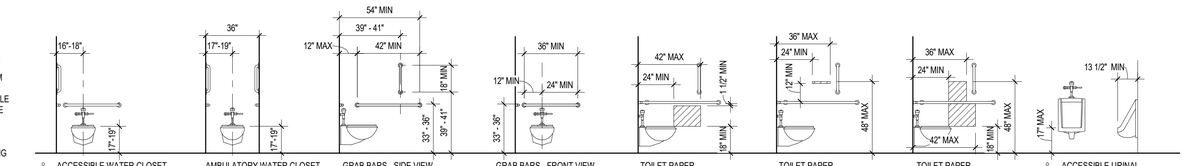
**NOTE:** *NOT NECESSARILY EXACT SING TYPE SHOWN. VERIFY ALL SIGNAGE WITH ARCHITECT PRIOR TO PURCHASE AND INSTALLATION.

# 4 ROOM SIGNAGE

1/2" = 1'-0"

**HANDICAP ACCESSIBLE TOILET ROOM NOTES:**
- THE ACCESSIBLE WATER CLOSET SHALL BE LOCATED WITH A WALL OR PARTITION TO THE REAR AND TO ONE SIDE. THE CENTERLINE OF THE WATER CLOSET SHALL BE 16 INCHES MINIMUM AND 18 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION.
- WATER CLOSETS LOCATED IN AMBULATORY ACCESSIBLE COMPARTMENTS SHALL HAVE THE CENTERLINE OF THE WATER CLOSET 17 INCHES MINIMUM AND 19 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION.
- GRAB BAR @ REAR WALL 36" LONG, 6" FROM WALL; MOUNT 36" ABOVE FLOOR TO THE TOP OF THE GRIPPING SURFACE
- GRAB BARS @ SIDE WALL HORIZONTAL: 42" LONG, 12" FROM WALL; MOUNT 36" ABOVE FLOOR TO TOP OF GRIPPING SURFACE
- GRAB BAR @ SIDE WALL VERTICAL: 18" LONG, 39-41" ABOVE FLOOR FROM BOTTOM OF BAR
- TOILET PAPER DISPENSER ABOVE GRAB BAR: OUTLET OF DISPENSER SHALL BE 24-36" FROM REAR WALL. OUTLET SHALL BE 12" MINIMUM ABOVE GARB BAR AND 48" MAX ABOVE FINISHED FLOOR.
- TOILET PAPER DISPENSER BELOW GRAB BAR: OUTLET OF DISPENSER SHALL BE 24-42" FROM REAR WALL. OUTLET SHALL BE 1.5" MINIMUM BELOW GRAB BAR AND 18" MINIMUM ABOVE FINISHED FLOOR
- HANDICAPPED TOILET: INSTALL AT LEAST 17" FROM FLOOR TO TOP OF SEAT; FLUSH CONTROL TO OPEN SIDE OF ROOM
- MOUNT RIM OF SINK 34" ABOVE FLOOR; PROVIDE CLEARANCE OF 27" TO BOTTOM OF SINK APRON; PROVIDE PIPE INSULATED PROTECTION
- MOUNT MIRROR W/BOTTOM EDGE OF REFLECTING SURFACE NO HIGHER THAN 40" ABOVE FINISHED FLOOR

**HANDICAP ACCESSIBLE DRINKING FOUNTAIN NOTES:**
- SPOUT OUTLETS OF WHEELCHAIR ACCESSIBLE DRINKING FOUNTAINS SHALL BE 36 INCHES MAXIMUM ABOVE THE FLOOR. SPOUT OUTLETS FOR STANDING PERSONS SHALL BE 38 INCHES MINIMUM AND 43 INCHES MAXIMUM ABOVE THE FLOOR.
- THE SPOUT SHALL BE LOCATED 15 INCHES MINIMUM FROM THE VERTICAL SUPPORT AND 5 INCHES MAXIMUM FROM THE FRONT EDGE OF THE DRINKING FOUNTAIN, INCLUDING BUMPERS. WHERE ONLY A PARALLEL APPROACH IS PROVIDED, THE SPOUT SHALL BE LOCATED 3-1/2 INCHES MAXIMUM FROM THE FRONT EDGE OF THE DRINKING FOUNTAIN, INCLUDING BUMPERS.




ACCESSIBLE WATER CLOSET, MOUNTING LOCATION *NOT NECESSARILY FIXTURE TYPE

AMBULATORY WATER CLOSET, MOUNTING LOCATION *NOT NECESSARILY FIXTURE TYPE

GRAB BARS - SIDE VIEW *NOT NECESSARILY FIXTURE TYPE

GRAB BARS - FRONT VIEW *NOT NECESSARILY FIXTURE TYPE

TOILET PAPER DISPENSER, PROTRUDING BELOW GRAB BAR *NOT NECESSARILY FIXTURE TYPE

TOILET PAPER DISPENSER, PROTRUDING ABOVE GRAB BAR *NOT NECESSARILY FIXTURE TYPE

TOILET PAPER DISPENSER, RECESSED *NOT NECESSARILY FIXTURE TYPE

ACCESSIBLE URINAL *NOT NECESSARILY FIXTURE TYPE




DRINKING FOUNTAIN, MOUNTING HEIGHT

DRINKING FOUNTAIN, SPOUT LOCATION

ELEVATOR CONTROLS

CORNER GUARD

FULL LENGTH MIRROR

ACCESSIBLE COAT POLE AND SHELF

STANDARD COAT POLE AND SHELF

DIAPER CHANGE STATION

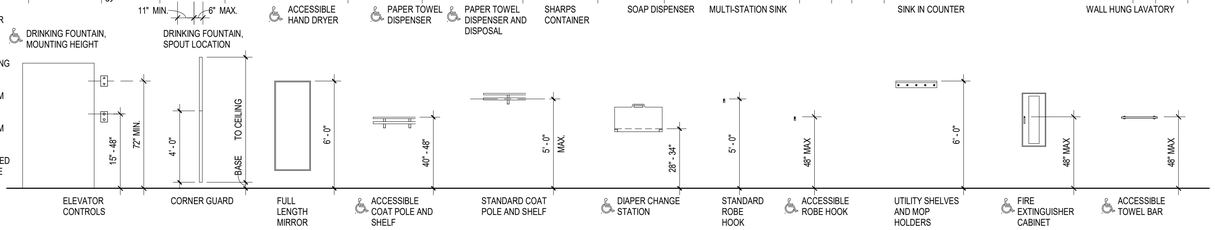
STANDARD ROBE HOOK

ACCESSIBLE ROBE HOOK

UTILITY SHELVES AND MOP HOLDERS

FIRE EXTINGUISHER CABINET

ACCESSIBLE TOWEL BAR

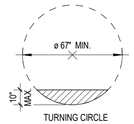



# 3 TURNING SPACES

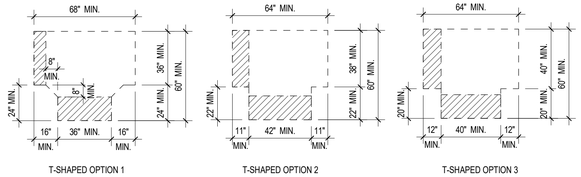
1/4" = 1'-0"

**T-SHAPED SPACE:**
T-SHAPED TURNING SPACES ARE PERMITTED TO HAVE KNEE AND TOE CLEARANCE OVERLAP ON ONE ARM AND THE BASE AND MUST COMPLY WITH ONE OF THE FOLLOWING:
a. **OPTION 1:** A T SHAPED SPACE THAT FIRS WITHIN AN AREA 68 INCHES WIDE AND 60 INCHES DEEP, WITH TWO ARMS AND ONE BASE THAT ARE ALL 36 INCHES MINIMUM IN WIDTH. EACH ARM SHALL EXTEND 16 INCHES MINIMUM FROM EACH SIDE OF THE BASE LOCATED OPPOSITE THE OTHER, AND THE BASE SHALL EXTEND 24 INCHES MINIMUM FROM THE ARMS. AT THE INTERSECTION OF EACH ARM AND BASE, THE INTERIOR CORNERS SHALL BE CHAMFERED FOR 8 INCHES MINIMUM ALONE BOTH THE ARM AND ALONG THE BASE
b. **OPTION 2:** A T-SHAPED SPACE, CLEAR OF OBSTRUCTION, THAT FITS WITHIN AN AREA 64 INCHES WIDE AND 60 INCHES DEEP, WITH TWO ARMS 38 INCHES MINIMUM IN WIDTH AND A BASE OF 42 INCHES MINIMUM IN WIDTH. EACH ARM SHALL EXTEND 11 INCHES MINIMUM FROM EACH SIDE OF THE BASE, LOCATED OPPOSITE THE OTHER, AND THE BASE SHALL EXTEND 22 INCHES MINIMUM FROM EACH ARM.
c. **OPTION 3:** A T-SHAPED SPACE, CLEAR OF OBSTRUCTION, 64 INCHES WIDE AND 60 INCHES DEEP, WITH TWO ARMS AND ONE BASE 40 INCHES MINIMUM IN WIDTH. EACH ARM SHALL EXTEND 12 INCHES MINIMUM FROM EACH SIDE OF THE BASE AND THE BASE SHALL EXTEND 20 INCHES MINIMUM FROM EACH ARM

**CIRCULAR SPACE:**
a. TURNING CIRCLES SHALL BE A CIRCULAR SPACE WITH A 67 INCH MINIMUM DIAMETER. A 10" OVERLAP IS ALLOWED FOR KNEE AND TOE CLEARANCES UNDER AN OBSTRUCTION.




TURNING CIRCLE




T-SHAPED OPTION 1

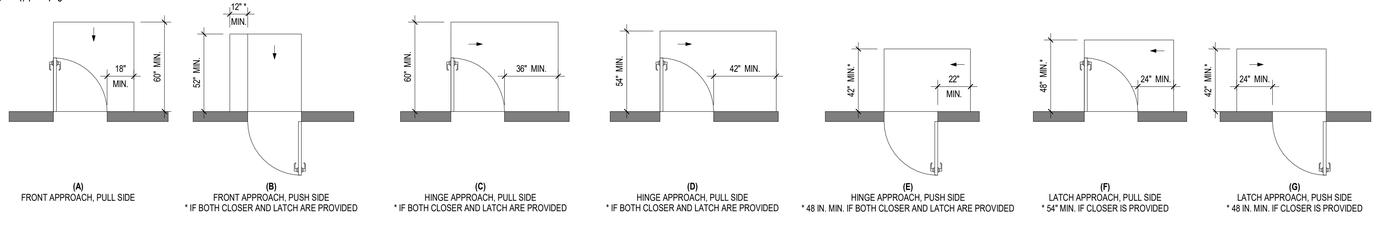
T-SHAPED OPTION 2

T-SHAPED OPTION 3

**ALL INFORMATION ON THIS PAGE IN ACCORDANCE WITH ICC A117.1-2017**

# 2 STANDARD MOUNTING HEIGHTS

1/4" = 1'-0"




**(A)** FRONT APPROACH, PULL SIDE

**(B)** FRONT APPROACH, PUSH SIDE
* IF BOTH CLOSER AND LATCH ARE PROVIDED

**(C)** HINGE APPROACH, PULL SIDE
* IF BOTH CLOSER AND LATCH ARE PROVIDED

**(D)** HINGE APPROACH, PULL SIDE
* IF BOTH CLOSER AND LATCH ARE PROVIDED

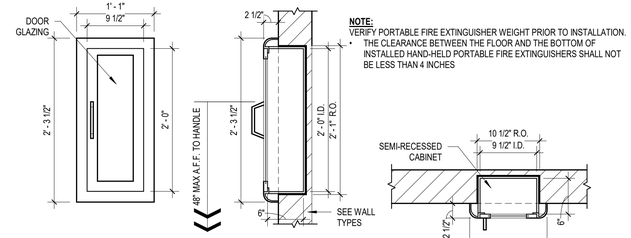
**(E)** HINGE APPROACH, PUSH SIDE
* 48 IN. MIN. IF BOTH CLOSER AND LATCH ARE PROVIDED

**(F)** LATCH APPROACH, PULL SIDE
* 54" MIN. IF CLOSER IS PROVIDED

**(G)** LATCH APPROACH, PUSH SIDE
* 48 IN. MIN. IF CLOSER IS PROVIDED

# 1 MANUAL SWING DOOR MANEUVERING CLEARANCES

1/4" = 1'-0"




**NOTE:**
VERIFY PORTABLE FIRE EXTINGUISHER WEIGHT PRIOR TO INSTALLATION.
- THE CLEARANCE BETWEEN THE FLOOR AND THE BOTTOM OF INSTALLED HAND-HELD PORTABLE FIRE EXTINGUISHERS SHALL NOT BE LESS THAN 4 INCHES

# 5 FIRE EXTINGUISHERS

1" = 1'-0"


LIEN & PETERSON ARCHITECTS, INC
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WYOCENA FIRE DEPARTMENT
ADDITION
284 S COLUMBUS STREET
WYOCENA, WI 53969

BUILDING COMPONENTS

REVISIONS:
NO. DATE

ISSUE DATE:
AUGUST 12, 2026

G103

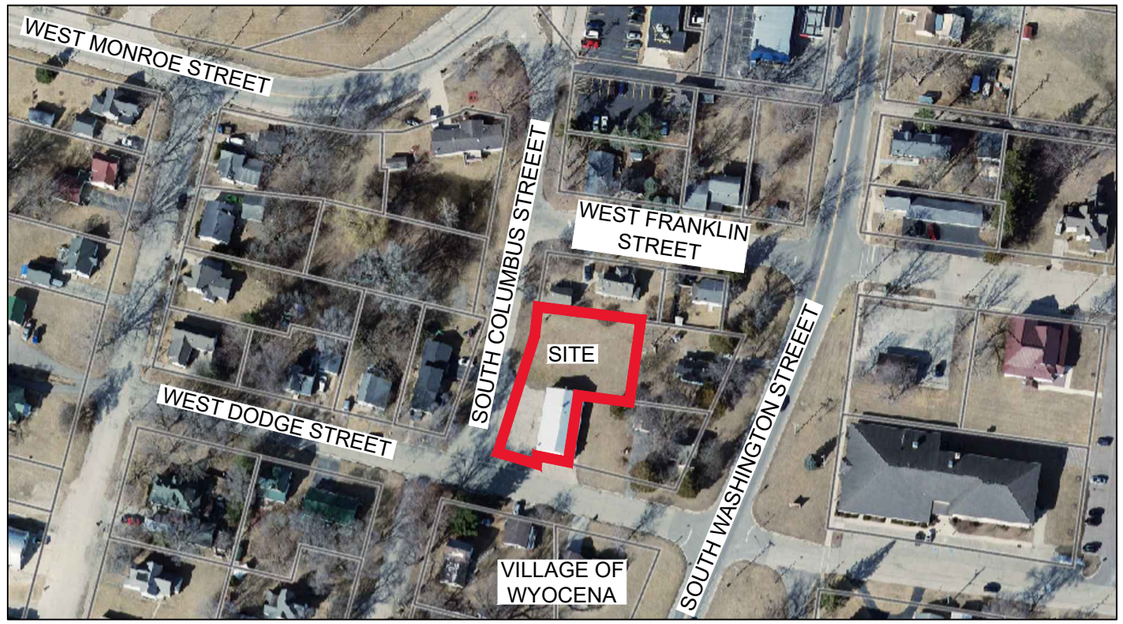
L&P PROJECT # 26057

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# SITE IMPROVEMENTS FOR
# VILLAGE OF WYOCENA
# FIRE STATION ADDITION
## VILLAGE OF WYOCENA, COLUMBIA COUNTY, WISCONSIN
SE1/4 OF THE NE1/4 AND THE SW1/4 OF THE NE1/4, SECTION 21, TOWN 12 NORTH, RANGE 10 EAST

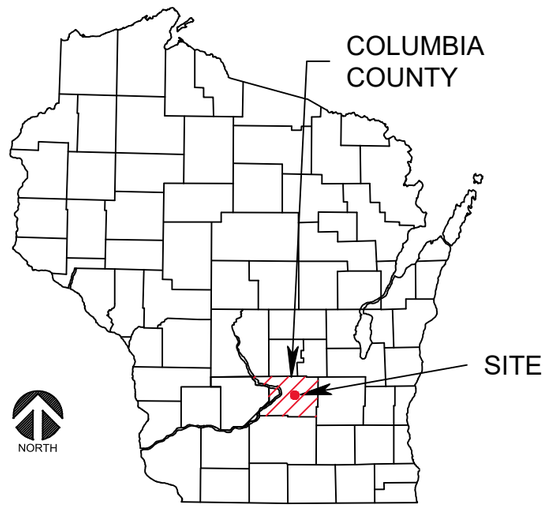
## DRAWING INDEX


| | |
|---|---|
| C0.0 | TITLE SHEET |
| C1.0 | GENERAL NOTES |
| C2.0 | EXISTING CONDITIONS AND DEMOLITION PLAN |
| C3.0 | PROPOSED SITE LAYOUT |
| C4.0 | PROPOSED GRADING AND WET UTILITY PLAN |
| C5.0 | EROSION CONTROL PLAN |
| C6.0-C6.2 | CONSTRUCTION DETAILS |


NORTH

VICINITY MAP
NOT TO SCALE




## PROJECT INFORMATION

OWNER: VILLAGE OF WYOCENA
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WYOCENA, WI 53969

ENGINEER: TOMAS A. TORO-SANTOS
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CLIENT:
LIEN & PETERSON
ARCHITECTS

CLIENT ADDRESS:
4675 ROYAL DRIVE
EAU CLAIRE, WI 54701

REVISIONS:

| # | DATE | DESCRIPTION |
|---|---|---|
| 1 | 8-4-2026 | REVISED PER CLIENT COMMENTS |
| 2 | 8-10-2026 | REVISED PER CLIENT COMMENTS |

PRELIMINARY

DESIGNED/DRAWN: AJJ
APPROVED: TAT
DRAWING ISSUE DATE: 7/31/2026

PROJECT NAME:
VILLAGE OF WYOCENA FIRE STATION ADDITION

PROJECT LOCATION:
BEING LOT 1, C.S.M. 7077, AS RECORDED IN VOLUME 53 OF C.S.M.S, PAGE 91, AS DOCUMENT 91, LOCATED IN THE SE1/4 OF THE NE1/4 AND THE SW1/4 OF THE NE1/4, SECTION 21, T.12N., R.10E., VILLAGE OF WYOCENA, COLUMBIA COUNTY, WISCONSIN

SHEET NAME:
TITLE SHEET

G&A PROJECT NO.: 626-348

SHEET NO.
C0.0

## UTILITY NOTES

1. ALL EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATIONS OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTRACTOR/OWNER SHALL CALL "DIGGER'S HOTLINE" PRIOR TO ANY CONSTRUCTION.

2. PRIOR TO CONSTRUCTION, THE PRIME CONTRACTOR IS RESPONSIBLE FOR:
   * EXAMINING ALL SITE CONDITIONS RELATIVE TO THE CONDITIONS INDICATED ON THE ENGINEERING DRAWINGS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER AND RESOLVED PRIOR TO THE START OF CONSTRUCTION.
   * OBTAINING ALL PERMITS INCLUDING PERMIT COSTS, TAP FEES, METER DEPOSITS, BONDS, AND ALL OTHER FEES REQUIRED FOR PROPOSED WORK TO OBTAIN OCCUPANCY.
   * VERIFYING ALL ELEVATIONS, LOCATIONS AND SIZES OF SANITARY, WATER AND STORM LATERALS AND CHECK ALL UTILITY CROSSINGS FOR CONFLICTS. NOTIFY ENGINEER OF ANY DISCREPANCY. NO WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS RESOLVED.
   * NOTIFYING ALL UTILITIES PRIOR TO INSTALLATION OF ANY UNDERGROUND IMPROVEMENTS.
   * NOTIFYING THE DESIGN ENGINEER AND MUNICIPALITY 48 HOURS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE FOR APPROPRIATE CONSTRUCTION OBSERVATION.
   * COORDINATING ALL CONSTRUCTION WITH OTHER CONTRACTORS INVOLVED WITH CONSTRUCTION OF THE PROPOSED DEVELOPMENT AND FOR REPORTING ANY ERRORS OR DISCREPANCIES BETWEEN THESE PLANS AND PLANS PREPARED BY OTHERS.

3. ALL UTILITY WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN – AND ALL STATE AND LOCAL CODES AND SPECIFICATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE WHICH SPECIFICATIONS AND CODES APPLY, AND TO COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE LOCAL AND STATE AUTHORITIES.

4. SPECIFICATIONS SHALL COMPLY WITH THE VILLAGE OF WYOCENA "STANDARD SPECIFICATIONS FOR PUBLIC WORKS IMPROVEMENTS".

5. LENGTHS OF ALL UTILITIES ARE TO CENTER OF STRUCTURES OR FITTINGS AND MAY VARY SLIGHTLY FROM PLAN. LENGTHS SHALL BE VERIFIED IN THE FIELD DURING CONSTRUCTION.

6. CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY DURING THE CONSTRUCTION OF IMPROVEMENTS.

7. CONTRACTOR SHALL INSTALL A PEDESTRIAN FENCE AROUND ALL EXCAVATIONS TO BE LEFT OPEN OVER NIGHT AS REQUIRED IN CONSTRUCTION SITES WHERE THE POTENTIAL FOR PEDESTRIAN INJURY EXISTS.

8. CONTRACTOR SHALL ADJUST AND/OR RECONSTRUCT ALL UTILITY COVERS (SUCH AS MANHOLE COVERS, VALVE BOX COVERS, ETC.) TO MATCH THE FINISHED GRADES OF THE AREAS EFFECTED BY THE CONSTRUCTION.

9. THE PRIME CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION WITH OTHER CONTRACTORS INVOLVED WITH CONSTRUCTION OF THE PROPOSED DEVELOPMENT AND FOR REPORTING ANY ERRORS OR DISCREPANCIES BETWEEN THESE PLANS AND PLANS PREPARED BY OTHERS.

10. ANY SANITARY SEWER, SANITARY SEWER SERVICES, WATER MAIN, WATER SERVICES, STORM SEWER, OR OTHER UTILITIES, WHICH ARE DAMAGED BY THE CONTRACTORS, SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.

11. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE ENGINEER WITH AS–BUILT CONDITIONS OF THE DESIGNATED IMPROVEMENTS IN ORDER THAT THE APPROPRIATE DRAWINGS CAN BE PREPARED, IF REQUIRED. ANY CHANGES TO THE DRAWINGS OR ADDITIONAL ITEMS MUST BE REPORTED TO THE ENGINEER AS WORK PROGRESSES.

12. STORM SEWER SPECIFICATIONS –

    PIPE – REINFORCED CONCRETE PIPE (RCP) SHALL MEET THE REQUIREMENTS OF ASTM CLASS III (MINIMUM) C–76 WITH RUBBER GASKET JOINTS CONFORMING TO ASTM C–443. HIGH DENSITY DUAL–WALL POLYETHYLENE CORRUGATED PIPE SHALL BE AS MANUFACTURED BY ADS OR EQUAL WITH WATER TIGHT JOINTS, AND SHALL MEET THE REQUIREMENTS OF AASHTO DESIGNATION M–294 TYPE "S".

    INLETS – INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FILE. NO. 28 OF THE "STANDARD SPECIFICATIONS", OR APPROVED EQUAL WITH A 1'–8" X 2'–6" MAXIMUM OPENING. CURB FRAME & GRATE SHALL BE NEENAH R–3067 WITH TYPE R GRATE, OR EQUAL.

    BACKFILL AND BEDDING – STORM SEWER SHALL BE CONSTRUCTED WITH GRAVEL BACKFILL AND CLASS "B" BEDDING IN ALL PAVED AREAS AND TO A POINT 5 FEET BEYOND THE EDGE OF PAVEMENT. TRENCHES RUNNING PARALLEL TO AND LESS THAN 5 FEET FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE GRAVEL BACKFILL. LANDSCAPED AREAS MAY BE BACKFILLED WITH EXCAVATED MATERIAL IN CONFORMANCE WITH SECTION 8.43.5 OF THE "STANDARD SPECIFICATIONS".

    MANHOLE FRAMES AND COVERS – MANHOLE FRAMES AND COVERS SHALL BE PER PLAN ON SHEET C4.0.

    FIELD TILE CONNECTION – ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION SHALL BE INCLUDED IN THE UNIT PRICE(S) FOR STORM SEWER. TILE LINES CROSSED BY THE TRENCH SHALL BE REPLACED WITH THE SAME MATERIAL AS THE STORM SEWER.

13. WATER MAIN SPECIFICATIONS –

    PIPE – DUCTILE IRON PIPE SHALL BE CLASS 52 CONFORMING TO AWWA C151 AND CHAPTER 8.18.0 OF THE "STANDARD SPECIFICATIONS". POLYVINYL CHLORIDE (PVC) PIPE SHALL MEET THE REQUIREMENTS OF AWWA STANDARD C–900, CLASS 150, DR–18, WITH CAST IRON O.D. AND INTEGRAL ELASTOMERIC BELL AND SPIGOT JOINTS. NON–METALLIC WATER MAINS SHALL BE INSTALLED WITH BLUE INSULATION TRACER WIRE AND CONFORM WITH SPS 382.30(11)(h).

    VALVES AND VALVE BOXES – GATE VALVES SHALL BE AWWA GATE VALVES MEETING THE REQUIREMENTS OF AWWA C–500 AND CHAPTER 8.27.0 OF THE "STANDARD SPECIFICATIONS". GATE VALVES AND VALVE BOXES SHALL CONFORM TO LOCAL PLUMBING ORDINANCES.

## UTILITY NOTES (CONTD.)

BEDDING AND COVER MATERIAL – PIPE BEDDING AND COVER MATERIAL SHALL BE SAND, CRUSHED STONE CHIPS OR CRUSHED STONE SCREENINGS CONFORMING TO CHAPTER 8.43.2 OF THE "STANDARD SPECIFICATIONS".

BACKFILL – BACKFILL MATERIAL AND INSTALLATION SHALL BE IN ACCORDANCE WITH CHAPTER 2.6.0 OF THE "STANDARD SPECIFICATIONS". GRAVEL BACKFILL IS REQUIRED IN ALL PAVED AREAS AND TO A POINT 5 FEET BEYOND THE EDGE OF PAVEMENT. TRENCHES RUNNING PARALLEL TO AND LESS THAN 5 FEET FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE GRAVEL BACKFILL. LANDSCAPED AREAS MAY BE BACKFILLED WITH EXCAVATED MATERIAL IN CONFORMANCE WITH SECTION 8.43.5 OF THE "STANDARD SPECIFICATIONS".

14. SANITARY SEWER SPECIFICATIONS –

    PIPE – SANITARY SEWER PIPE MATERIAL SHALL BE POLYVINYL CHLORIDE (PVC) MEETING REQUIREMENTS OF ASTM D 3034, SDR–35, WITH INTEGRAL BELL TYPE FLEXIBLE ELASTOMERIC JOINTS, MEETING THE REQUIREMENTS OF ASTM D–3212.

    BEDDING AND COVER MATERIAL – BEDDING AND COVER MATERIAL SHALL CONFORM TO THE APPROPRIATE SECTIONS OF THE "STANDARD SPECIFICATION" WITH THE FOLLOWING MODIFICATION: "COVER MATERIAL SHALL BE THE SAME AS USED FOR BEDDING AND SHALL CONFORM TO SECTION 8.43.2 (A). BEDDING AND COVER MATERIAL SHALL BE PLACED IN A MINIMUM OF THREE SEPARATE LIFTS, OR AS REQUIRED TO INSURE ADEQUATE COMPACTING OF THESE MATERIALS, WITH ONE LIFT OF BEDDING MATERIAL ENDING AT OR NEAR THE SPRINGLINE OF THE PIPE. THE CONTRACTOR SHALL TAKE CARE TO COMPLETELY WORK BEDDING MATERIAL UNDER THE HAUNCH OF THE PIPE TO PROVIDE ADEQUATE SIDE SUPPORT."

    BACKFILL – BACKFILL MATERIAL AND INSTALLATION SHALL BE IN ACCORDANCE CHAPTER 2.6.0 OF THE "STANDARD SPECIFICATIONS." GRAVEL BACKFILL IS REQUIRED IN ALL PAVED AREAS AND TO A POINT 5 FEET BEYOND THE EDGE OF PAVEMENT. TRENCHES RUNNING PARALLEL TO AND LESS THAN 5 FEET FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE GRAVEL BACKFILL. LANDSCAPED AREAS MAY BE BACKFILLED WITH EXCAVATED MATERIAL IN CONFORMANCE WITH SECTION 8.43.5 OF THE "STANDARD SPECIFICATIONS."

    MANHOLES – MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH FILE NOS. 12, 13 AND 15 OF THE "STANDARD SPECIFICATIONS" AND ALL SPECIAL PROVISIONS OF THE VILLAGE OF WYOCENA.

    MANHOLE FRAMES AND COVERS – MANHOLE FRAMES AND COVERS SHALL BE PER PLANS.

15. WATERMAIN AND SANITARY SEWER SHALL BE INSULATED WHEREVER THE DEPTH OF COVER IS LESS THAN 6.5 FEET. INSULATION AND INSTALLATION OF INSULATION SHALL BE CONFORMING WITH CHAPTER 4.17.0 "INSULATION" OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN 6TH EDITION UPDATED WITH ITS LATEST ADDENDUM (TYP.).

## EROSION CONTROL NOTES

1. CONTRACTOR IS RESPONSIBLE TO NOTIFY ENGINEER OF RECORD AND OFFICIALS OF ANY CHANGES TO THE EROSION CONTROL AND STORMWATER MANAGEMENT PLANS. ENGINEER OF RECORD AND APPROPRIATE VILLAGE OF WYOCENA OFFICIALS MUST APPROVE ANY CHANGES PRIOR TO DEVIATION FROM THE APPROVED PLANS.

2. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) TECHNICAL STANDARDS (REFERRED TO AS BMP'S) AND VILLAGE OF WYOCENA ORDINANCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COPY OF THESE STANDARDS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL EROSION CONTROL MEASURES WHICH MAY BE NECESSARY TO MEET UNFORESEEN FIELD CONDITIONS.

5. INSTALL PERIMETER EROSION CONTROL MEASURES (SUCH AS CONSTRUCTION ENTRANCES, SILT FENCE AND EXISTING INLET PROTECTION) PRIOR TO ANY SITE WORK, INCLUDING GRADING OR DISTURBANCE OF EXISTING SURFACE COVER, AS SHOWN ON PLAN. MODIFICATIONS TO THE APPROVED EROSION CONTROL DESIGN IN ORDER TO MEET UNFORESEEN FIELD CONDITIONS IS ALLOWED IF MODIFICATIONS CONFORM TO BMP'S. ALL DESIGN MODIFICATIONS MUST BE APPROVED BY THE VILLAGE OF WYOCENA PRIOR TO DEVIATION OF THE APPROVED PLAN.

4. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED BY STATE INSPECTORS, LOCAL INSPECTORS, COUNTY INSPECTORS AND/OR ENGINEER OF RECORD SHALL BE INSTALLED WITHIN 24 HOURS OF REQUEST.

5. INSPECTIONS AND MAINTENANCE OF ALL EROSION CONTROL MEASURES SHALL BE ROUTINE (ONCE PER WEEK MINIMUM) TO ENSURE PROPER FUNCTION OF EROSION CONTROLS AT ALL TIMES. EROSION CONTROL MEASURES ARE TO BE IN WORKING ORDER AT THE END OF EACH WORK DAY.

6. ALL EROSION AND SEDIMENT CONTROL ITEMS SHALL BE INSPECTED WITHIN 24 HOURS OF ALL RAIN EVENTS EXCEEDING 0.5 INCHES. ANY DAMAGED EROSION CONTROL MEASURES SHALL BE REPAIRED OR REPLACED IMMEDIATELY UPON INSPECTION.

7. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL LOCATIONS OF VEHICLE INGRESS/EGRESS POINTS. ADDITIONAL LOCATIONS OTHER THAN AS SHOWN ON THE PLANS MUST BE PRIOR APPROVED BY THE MUNICIPALITY. CONSTRUCTION ENTRANCES SHALL BE 50' LONG AND NO LESS THAN 12" THICK BY USE OF 3" CLEAR STONE. CONSTRUCTION ENTRANCES SHALL BE MAINTAINED BY THE CONTRACTOR IN A CONDITION WHICH WILL PREVENT THE TRACKING OF MUD OR DRY SEDIMENT ONTO ADJACENT PUBLIC STREETS AFTER EACH WORKING DAY OR MORE FREQUENTLY AS REQUIRED.

8. PAVED SURFACES ADJACENT TO CONSTRUCTION SITE VEHICLE ACCESS SHALL BE SWEPT AND/OR SCRAPED TO REMOVE ACCUMULATED SOIL, DIRT AND/OR DUST AFTER THE END OF EACH WORK DAY AND AS REQUESTED BY VILLAGE OF WYOCENA.

9. INLET PROTECTION SHALL BE IMMEDIATELY FITTED AT THE INLET OF ALL INSTALLED STORM SEWER AND SILT FENCE SHALL BE IMMEDIATELY FITTED AT ALL INSTALLED CULVERT INLETS TO PREVENT SEDIMENT DEPOSITION WITHIN STORM SEWER SYSTEMS.

10. INSTALL EROSION CONTROLS ON THE DOWNSTREAM SIDE OF STOCKPILES. IF STOCKPILE REMAINS UNDISTURBED FOR MORE THAN SEVEN (7) DAYS, TEMPORARY SEEDING AND STABILIZATION IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES IS REQUIRED. IF DISTURBANCE OCCURS BETWEEN NOVEMBER 15TH AND MAY 15TH, THE MULCHING SHALL BE PERFORMED BY HYDRO–MULCHING WITH A "TACKIFIER."

11. DITCH CHECKS AND APPLICABLE EROSION NETTING/MATTING SHALL BE INSTALLED IMMEDIATELY AFTER COMPLETION OF GRADING EFFORTS WITHIN DITCHES/SWALES TO PREVENT SOIL TRANSPORTATION.

12. EROSION CONTROL FOR UTILITY CONSTRUCTION (STORM SEWER, SANITARY SEWER, WATER MAIN, ETC.):
    A. PLACE EXCAVATED TRENCH MATERIAL ON THE HIGH SIDE OF THE TRENCH.
    B. BACKFILL, COMPACT, AND STABILIZE THE TRENCH IMMEDIATELY AFTER PIPE CONSTRUCTION.
    C. DISCHARGE TRENCH WATER INTO A SEDIMENTATION BASIN OR FILTERING TANK IN ACCORDANCE WITH THE DEWATERING TECHNICAL STANDARD NO. 1061 PRIOR TO RELEASE INTO THE STORM SEWER, RECEIVING STREAM, OR DRAINAGE DITCH.

13. ALL SLOPES 4:1 OR GREATER SHALL BE STABILIZED WITH CLASS I, TYPE B EROSION MATTING OR APPLICATION OF A WISCONSIN DEPARTMENT OF TRANSPORTATION (WisDOT) APPROVED POLYMER SOIL STABILIZATION TREATMENT OR A COMBINATION THEREOF, AS REQUIRED WITHIN 7 DAYS OF REACHING FINAL GRADE AND/OR AS SOON AS CONDITIONS ALLOW. DRAINAGE SWALES SHALL BE STABILIZED WITH CLASS II, TYPE B EROSION MATTING. EROSION MATTING AND/OR NETTING USED ONSITE SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES AND WDNR TECHNICAL STANDARDS 1052 AND 1053.

14. CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO CONTROL DUST ARISING FROM CONSTRUCTION OPERATIONS. REFER TO WDNR TECHNICAL STANDARD 1068.

15. EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL LAND DISTURBING CONSTRUCTION ACTIVITY AT THE SITE HAS BEEN COMPLETED AND THAT A UNIFORM PERENNIAL VEGETATIVE COVER HAS BEEN ESTABLISHED WITH A DENSITY OF AT LEAST 70% FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES OR THAT EMPLOY EQUIVALENT PERMANENT STABILIZATION MEASURES.

16. CONTRACTOR/OWNER SHALL FILE A NOTICE OF TERMINATION UPON COMPLETION OF THE PROJECT IN ACCORDANCE WITH WDNR REQUIREMENTS AND/OR PROPERTY SALE IN ACCORDANCE WITH WDNR REQUIREMENTS.

17. <u>STABILIZATION PRACTICES</u>:

    17.1. *STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. NO MORE THAN SEVEN (7) DAYS SHALL PASS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS CEASED UNLESS:

    17.2. *THE INITIATION STABILIZATION MEASURES BY THE SEVENTH (7) DAY AFTER CONSTRUCTION ACTIVITY HAS CEASED IS PRECLUDED BY SNOW COVER. IN THAT EVENT, STABILIZATION SHALL BE INITIATED AS SOON AS PRACTICABLE.

    17.3. *CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN FOURTEEN (14) DAYS FROM WHEN ACTIVITY CEASED, (I.E. THE TOTAL TIME PERIOD THAT THE CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN FOURTEEN (14) DAYS. IN THAT EVENT, STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH (7) DAY AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED.

    17.4. *STABILIZATION MEASURES SHALL BE DETERMINED BASED ON SITE CONDITIONS AT THE TIME OF CONSTRUCTION ACTIVITY HAS CEASED, INCLUDING BUT NOT LIMITED TO WEATHER CONDITIONS AND LENGTH OF TIME MEASURE MUST BE EFFECTIVE. THE FOLLOWING ARE ACCEPTABLE STABILIZATION MEASURES:
    * PERMANENT SEEDING; IN ACCORDANCE WITH APPROVED CONSTRUCTION SPECIFICATION
    * TEMPORARY SEEDING; MAY CONSIST OF SPRING OATS(100LBS/ACRE) AND/OR WHEAT OR CEREAL RYE (150LB/ACRE)
    * HYDRO–MULCHING WITH A TACKIFIER
    * GEOTEXTILE EROSION MATTING
    * SODDING

18. EROSION CONTROL SHALL BE IN ACCORDANCE WITH THE VILLAGE OF WYOCENA EROSION CONTROL ORDINANCE AND CHAPTER NR 216 OF THE WISCONSIN ADMINISTRATIVE CODE. THE PROPERTY OWNER OR HIS REPRESENTATIVE IS REQUIRES TO MAKE EROSION CONTROL INSPECTIONS AT THE END OF EACH WEEK AND WHEN 0.5 INCHES OF RAIN FALLS WITHIN 24 HOURS. INSPECTION REPORTS SHALL BE PREPARED AND FILED AS REQUIRES AND SUBMITTED TO THE CITY'S PROJECT INSPECTOR.

19. SILT FENCE OR EROSION MAT SHALL BE INSTALLED ALONG THE CONTOURS AT 100 FOOT INTERVALS DOWN THE SLOPE ON DISTURBED SLOPES STEEPER THAN 5% AND MORE THAN 100 LONG THAT SHEET FLOW TO THE ROADWAY.

20. CLEAN SEDIMENT FROM CURB AND GUTTER AFTER RAIN AND PRIOR TO THE PROJECT ACCEPTANCE.

21. PLACE TEMPORARY SEED IF DISTURBED AREAS WILL NOT BE RESTORED IMMEDIATELY AFTER ROUGH GRADING. TEMPORARY SEED SHALL BE PLACED IN ACCORDANCE WITH SECTION 630 OF THE STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

## GRADING AND SEEDING NOTES

1. ALL PROPOSED GRADES SHOWN ARE FINISHED GRADES. CONTRACTOR SHALL VERIFY ALL GRADES, MAKE SURE ALL AREAS DRAIN PROPERLY AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.

2. CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR COMPUTATIONS OF ALL GRADING QUANTITIES. WHILE GROTHMAN AND ASSOCIATES, SC ATTEMPTS TO PROVIDE A COST EFFECTIVE APPROACH TO BALANCE EARTHWORK, GRADING DESIGN IS BASED ON MANY FACTORS, INCLUDING SAFETY, AESTHETICS, AND COMMON ENGINEERING STANDARDS OF CARE. THEREFORE, NO GUARANTEE CAN BE MADE FOR A BALANCED SITE.

3. PARKING LOT AND DRIVEWAY ELEVATIONS ARE PAVEMENT GRADES, NOT TOP OF CURB GRADES, UNLESS OTHERWISE NOTED.

4. ANY WORK WITHIN RIGHT–OF–WAY SHALL BE PROPERLY PERMITTED AND COORDINATED WITH THE APPROPRIATE OFFICIALS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. ALL GRADING WITHIN RIGHT–OF–WAY IS SUBJECT TO APPROVAL BY SAID OFFICIALS.

5. CONTRACTOR SHALL PROVIDE NOTICE TO THE MUNICIPALITY IN ADVANCE OF ANY SOIL DISTURBING ACTIVITIES, IN ACCORDANCE WITH MUNICIPAL REQUIREMENTS.

6. ALL DISTURBED AREAS SHALL BE SODDED AND/OR SEEDED AND MULCHED IMMEDIATELY FOLLOWING GRADING ACTIVITIES. SOD/SEED MIX TO BE IN ACCORDANCE WITH LANDSCAPE PLAN.

7. CONTRACTOR SHALL CHISEL–PLOW OR DEEP TILL WITH DOUBLE TINES ALL STORMWATER MANAGEMENT FACILITIES JUST PRIOR TO SODDING AND/OR SEEDING AND MULCHING TO PROMOTE INFILTRATION.

8. CONTRACTOR SHALL WATER ALL NEWLY SODDED/SEEDED AREAS DURING THE SUMMER MONTHS WHENEVER THERE IS A 7 DAY LAPSE WITH NO SIGNIFICANT RAINFALL.

9. CONTRACTOR TO DEEP TILL ALL COMPACTED PERVIOUS SURFACES PRIOR TO SODDING AND/OR SEEDING AND MULCHING.

10. ALL SLOPES 20% OR GREATER SHALL BE TEMPORARY SEEDED, MULCHED, OR OTHER MEANS OF COVER PLACED ON THEM WITHIN 2 WEEKS OF DISTURBANCE.

11. ALL EXPOSED SOIL AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH LAND DISTURBING ACTIVITIES WILL NOT BE PERFORMED FOR A PERIOD GREATER THAN 30 DAYS AND REQUIRE VEGETATIVE COVER FOR LESS THAN 1 YEAR, REQUIRE TEMPORARY SEEDING FOR EROSION CONTROL. SEEDING FOR EROSION CONTROL SHALL BE IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1059 AND VILLAGE OF WYOCENA ORDINANCE.

## STORMWATER FACILITIES CONSTRUCTION NOTES

1. ENGINEER SHALL BE NOTIFIED PRIOR TO INSTALLATION OF STORMWATER MANAGEMENT FACILITIES. CONSTRUCTION OF STORMWATER MANAGEMENT FACILITIES SHALL BE OBSERVED AND DOCUMENTED BY THE ENGINEER, OR AN OWNER'S REPRESENTATIVE.

2. STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AFTER SUBSTANTIAL COMPLETION OF FINAL SITE GRADING AND SOILS HAVE BEEN STABILIZED.

3. AREAS USED FOR TEMPORARY SEDIMENT BASINS SHALL BE REMOVED IN THEIR ENTIRETY AFTER CONSTRUCTION OF STORMWATER MANAGEMENT FACILITIES.

4. CONSTRUCTION TRAFFIC, HEAVY EQUIPMENT AND SOIL STOCKPILES SHALL NOT BE PLACED IN AREAS WHERE PROPOSED STORMWATER MANAGEMENT FACILITIES ARE LOCATED.

5. NATIVE SOIL INFILTRATION RATES BELOW STORMWATER FACILITIES SHALL BE VERIFIED BY THE OWNER'S GEOTECHNICAL ENGINEER PRIOR INSTALLATION OF FACILITIES. NATIVE SOIL INFILTRATION RATES SHALL BE EQUAL TO OR GREATER THAN DESIGN INFILTRATION RATES.

6. NATIVE SOILS SHALL BE BLENDED A MINIMUM OF TWO FEET PRIOR TO INSTALLATION OF STORMWATER INFILTRATION FACILITIES TO BREAKUP ANY LOWER PERMEABILITY SEAMS THAT MAY BE PRESENT.

7. THICKER SILT OR CLAY LAYERS SHALL BE OVER–EXCAVATED AND BACKFILLED WITH GRANULAR MATERIALS CONFORMING TO SPECIFICATIONS PER WDNR TECH STANDARD 1004.

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PRELIMINARY

DESIGNED/DRAWN: AJJ
APPROVED: TAT
DRAWING ISSUE DATE: 7/31/2026

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VILLAGE OF WYOCENA FIRE STATION ADDITION

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SHEET NAME:
GENERAL NOTES

G&A PROJECT NO.: 626–348

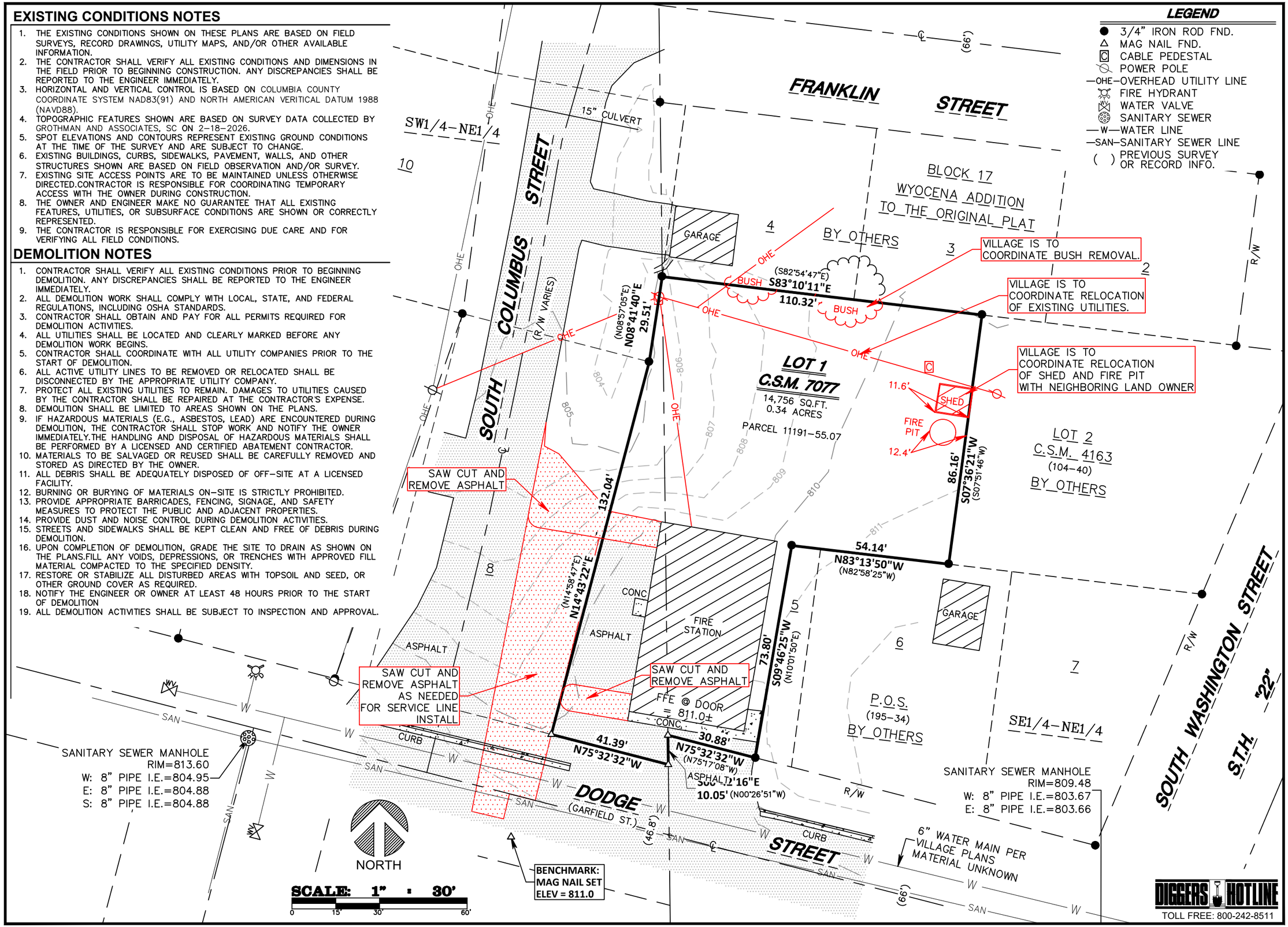
SHEET NO.
C1.0

## EXISTING CONDITIONS NOTES

1. THE EXISTING CONDITIONS SHOWN ON THESE PLANS ARE BASED ON FIELD SURVEYS, RECORD DRAWINGS, UTILITY MAPS, AND/OR OTHER AVAILABLE INFORMATION.
2. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
3. HORIZONTAL AND VERTICAL CONTROL IS BASED ON COLUMBIA COUNTY COORDINATE SYSTEM NAD83(91) AND NORTH AMERICAN VERITICAL DATUM 1988 (NAVD88).
4. TOPOGRAPHIC FEATURES SHOWN ARE BASED ON SURVEY DATA COLLECTED BY GROTHMAN AND ASSOCIATES, SC ON 2-18-2026.
5. SPOT ELEVATIONS AND CONTOURS REPRESENT EXISTING GROUND CONDITIONS AT THE TIME OF THE SURVEY AND ARE SUBJECT TO CHANGE.
6. EXISTING BUILDINGS, CURBS, SIDEWALKS, PAVEMENT, WALLS, AND OTHER STRUCTURES SHOWN ARE BASED ON FIELD OBSERVATION AND/OR SURVEY.
7. EXISTING SITE ACCESS POINTS ARE TO BE MAINTAINED UNLESS OTHERWISE DIRECTED.CONTRACTOR IS RESPONSIBLE FOR COORDINATING TEMPORARY ACCESS WITH THE OWNER DURING CONSTRUCTION.
8. THE OWNER AND ENGINEER MAKE NO GUARANTEE THAT ALL EXISTING FEATURES, UTILITIES, OR SUBSURFACE CONDITIONS ARE SHOWN OR CORRECTLY REPRESENTED.
9. THE CONTRACTOR IS RESPONSIBLE FOR EXERCISING DUE CARE AND FOR VERIFYING ALL FIELD CONDITIONS.

## DEMOLITION NOTES

1. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING DEMOLITION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
2. ALL DEMOLITION WORK SHALL COMPLY WITH LOCAL, STATE, AND FEDERAL REGULATIONS, INCLUDING OSHA STANDARDS.
3. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS REQUIRED FOR DEMOLITION ACTIVITIES.
4. ALL UTILITIES SHALL BE LOCATED AND CLEARLY MARKED BEFORE ANY DEMOLITION WORK BEGINS.
5. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES PRIOR TO THE START OF DEMOLITION.
6. ALL ACTIVE UTILITY LINES TO BE REMOVED OR RELOCATED SHALL BE DISCONNECTED BY THE APPROPRIATE UTILITY COMPANY.
7. PROTECT ALL EXISTING UTILITIES TO REMAIN. DAMAGES TO UTILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
8. DEMOLITION SHALL BE LIMITED TO AREAS SHOWN ON THE PLANS.
9. IF HAZARDOUS MATERIALS (E.G., ASBESTOS, LEAD) ARE ENCOUNTERED DURING DEMOLITION, THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE OWNER IMMEDIATELY.THE HANDLING AND DISPOSAL OF HAZARDOUS MATERIALS SHALL BE PERFORMED BY A LICENSED AND CERTIFIED ABATEMENT CONTRACTOR.
10. MATERIALS TO BE SALVAGED OR REUSED SHALL BE CAREFULLY REMOVED AND STORED AS DIRECTED BY THE OWNER.
11. ALL DEBRIS SHALL BE ADEQUATELY DISPOSED OF OFF-SITE AT A LICENSED FACILITY.
12. BURNING OR BURYING OF MATERIALS ON-SITE IS STRICTLY PROHIBITED.
13. PROVIDE APPROPRIATE BARRICADES, FENCING, SIGNAGE, AND SAFETY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES.
14. PROVIDE DUST AND NOISE CONTROL DURING DEMOLITION ACTIVITIES.
15. STREETS AND SIDEWALKS SHALL BE KEPT CLEAN AND FREE OF DEBRIS DURING DEMOLITION.
16. UPON COMPLETION OF DEMOLITION, GRADE THE SITE TO DRAIN AS SHOWN ON THE PLANS.FILL ANY VOIDS, DEPRESSIONS, OR TRENCHES WITH APPROVED FILL MATERIAL COMPACTED TO THE SPECIFIED DENSITY.
17. RESTORE OR STABILIZE ALL DISTURBED AREAS WITH TOPSOIL AND SEED, OR OTHER GROUND COVER AS REQUIRED.
18. NOTIFY THE ENGINEER OR OWNER AT LEAST 48 HOURS PRIOR TO THE START OF DEMOLITION
19. ALL DEMOLITION ACTIVITIES SHALL BE SUBJECT TO INSPECTION AND APPROVAL.




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SHEET NAME:
EXISTING CONDITIONS AND DEMOLITION PLAN

G&A PROJECT NO.: 626-348

SHEET NO.
C2.0

NORTH

**SCALE: 1" = 30'**

0 15' 30' 60'

## LEGEND

- ● 3/4" IRON ROD FND.
- △ MAG NAIL FND.
- C CABLE PEDESTAL
- POWER POLE
- OHE—OVERHEAD UTILITY LINE
- FIRE HYDRANT
- WATER VALVE
- SANITARY SEWER
- —W—WATER LINE
- SAN—SANITARY SEWER LINE
- ( ) PREVIOUS SURVEY OR RECORD INFO.

FRANKLIN STREET

SW1/4–NE1/4

15" CULVERT

PROPOSED RETAINING WALL (DESIGN BY OTHERS)

BLOCK 17
WYOCENA ADDITION
TO THE ORIGINAL PLAT

BY OTHERS

GARAGE

10 4 3 2

R/W

COLUMBUS STREET (R/W VARIES)

SOUTH

OHE

R5'

25'±

11.6'

86.0'

15.7'

10.3'

PROPOSED ASPHALT

PROPOSED CONCRETE

72.0'

PROPOSED FIRE STATION ADDITION FFE=807.0

56.0'

COAPMAN'S 2ND ADDITION

BLOCK 1

26'±

15'

5'

PROPOSED RETAINING WALL (DESIGN BY OTHERS)

GENERATOR LOCATION SIZE BY OTHERS

LOT 2
C.S.M. 4163
(104–40)
BY OTHERS

47.2'

12.3'

16.0'

14.5'

R4'

45.3'

38.8'

40.3'

9'

LOT 1
C.S.M. 7077
14,756 SQ.FT.
0.34 ACRES
FIRE STATION
PARCEL 11191–55.07

CONC

66.0'

ASPHALT

REPLACE PAVEMENT WITH SIMILAR

30' FLAG POLE BY GENERAL CONTRACTOR

7 8 5 6 7

GARAGE

P.O.S.
(195–34)
BY OTHERS

SE1/4–NE1/4

9.2'

24.0'

CURB

SANITARY SEWER MANHOLE
RIM=813.60
W: 8" PIPE I.E.=804.95
E: 8" PIPE I.E.=804.88
S: 8" PIPE I.E.=804.88

SAN

W

DODGE (GARFIELD ST.) STREET

SANITARY SEWER MANHOLE
RIM=809.48
W: 8" PIPE I.E.=803.67
E: 8" PIPE I.E.=803.66

6" WATER MAIN PER VILLAGE PLANS MATERIAL UNKNOWN

SOUTH WASHINGTON STREET

S.T.H. "22"

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SHEET NAME:
PROPOSED SITE LAYOUT

G&A PROJECT NO.: 626–348

SHEET NO.
C3.0

## NOTES

1. CONTRACTOR IS TO COORDINATE THE TAPPING SLEEVE INSTALLATION WITH THE VILLAGE OF WYOCENA.
2. PROVIDE MINIMUM 6.5' BURY DEPTH FOR WATER AND SANITARY LATERALS. IF 6.5' BURY DEPTH CANNOT BE ACHIEVED PROVIDE INSULATION.
3. ENSURE 8' OF HORIZONTAL SEPARATION BETWEEN SANITARY LATERAL AND WATER LATERAL MEASURED FROM CENTER TO CENTER.

NORTH

SCALE: 1" = 30'
0 15' 30' 60'

## LEGEND

- 3/4" IRON ROD FND.
- MAG NAIL FND.
- CABLE PEDESTAL
- POWER POLE
- —OHE—OVERHEAD UTILITY LINE
- FIRE HYDRANT
- WATER VALVE
- SANITARY SEWER
- —W—WATER LINE
- —SAN—SANITARY SEWER LINE
- ( ) PREVIOUS SURVEY OR RECORD INFO.

SANITARY LATERAL AND WATER MAIN CROSSING. PROVIDE 18" VERTICAL SEPERATION BETWEEN TOP OF SANITARY LATERAL AND BOTTOM OF WATER MAIN FOR 3' ON BOTH SIDES OF WATER MAIN. ENSURE SANITARY LATERAL IS PLACED BELOW WATER MAIN AND CENTERED BETWEEN TWO JOINTS. USE "FLOWABLE FILL" TO BACK FILL UNDERNEATH WATER MAIN TO PREVENT SETTLEMENT OF THE MAIN.

SANITARY SEWER MANHOLE
RIM=813.60
W: 8" PIPE I.E.=804.95
E: 8" PIPE I.E.=804.88
S: 8" PIPE I.E.=804.88

PROPOSED SANITARY SEWER MANHOLE
RIM=811.3±
I.E.=804.5±
(RIM AND I.E. TO MATCH EXISTING GROUND AND PIPE ELEVATION)

6"X6"X6" TAPPING SLEEVE AND VALVE (CONTRACTOR TO VERIFY LOCATION DEPTH, AND MATERIAL OF EXISTING)

PROPOSED 6" GATE VALVE (TYP.)

SANITARY SEWER MANHOLE
RIM=809.48
W: 8" PIPE I.E.=803.67
E: 8" PIPE I.E.=803.66

6" WATER MAIN PER VILLAGE PLANS MATERIAL UNKNOWN

INL-1 36" NYLOPLAST INLET STRUCTURE W/ BEEHIVE GRATE
RIM: 809.15
INV IN: 805.00 36" HDPE
INV OUT: 805.00 3" PVC

INL-2 72" DIA CONC STRUCTURE W/ INLET FRAME AND BEEHIVE GRATE NEENAH FOUNDRY R-2563
RIM: 809.74
INV IN: 805.00 36" HDPE
INV OUT: 805.00 36" HDPE

INL-3 36" NYLOPLAST INLET STRUCTURE W/ BEEHIVE GRATE
RIM: 810.40
INV OUT: 805.00 36" HDPE

PROPOSED STONE PIT (SEE DETAIL)

PROPOSED RETAINING WALL (DESIGN BY OTHERS)

PROPOSED 2' WIDE GRASSED SWALE @ 0.9% SLOPE

PROPOSED FIRE STATION ADDITION FFE=807.0

PROPOSED CONCRETE

PROPOSED ASPHALT

CONCRETE SLAB FOR "MAN DOOR"

6' WIDE OVERFLOW I.E.=806.25

8" PVC FOR GUTTER DRAIN

EXISTING BUILDING TO BE GUTTERED GUTTER SHALL DRAIN TO STONE PIT

PROPOSED 45° BEND

PROPOSED 45° BEND

FORCE MAIN DISCHARGE (SIZE BY OTHERS)

6" D.I.P. WATER LATERAL

INV: 805.75
5.7' OF 3" PVC @ 4.36%
INV: 805.50

15.0' OF 3" PVC @ 0.66%
INV: 804.90

21.2' OF 36" HDPE @ 0.00%

73.8' OF 36" HDPE @ 0.00%

15" CULVERT

GARAGE

FRANKLIN STREET

SOUTH COLUMBUS STREET (R/W VARIES)

SOUTH WASHINGTON STREET S.T.H. "22"

DODGE STREET (GARFIELD ST.)

BLOCK 17 WYOCENA ADDITION TO THE C[illegible]

BY OTHERS

LOT 1 C.S.M. 7077
14,756 SQ.FT.
0.34 ACRES
FIRE STATION
PARCEL 11191-55.07

LOT 2 C.S.M. 4163 (104-40) BY OTHERS

P.O.S. (195-34) BY OTHERS

COAPMAN'S 2ND ADDITION BLOCK 1

SW1/4-NE1/4

SE1/4-NE1/4

ASPHALT

CURB

SAN

W

OHE

R/W

804.75 | 805 | 804.75 | 806 | 807.00 | 807 | 808 | 809 | 809.00 | 810.00 | 811.00 | 810.75 | 810.78 | 811 | 806.90 | 806.13 | 806.2± | 804.97 | 804.7± | 806.90 | 807.00

5.6% | 3.0% | 2.0% | 2.1% | 0.9% | 0.9%

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SHEET NAME:
PROPOSED GRADING AND WET UTILITY PLAN

G&A PROJECT NO.: 626-348

SHEET NO.
C4.0

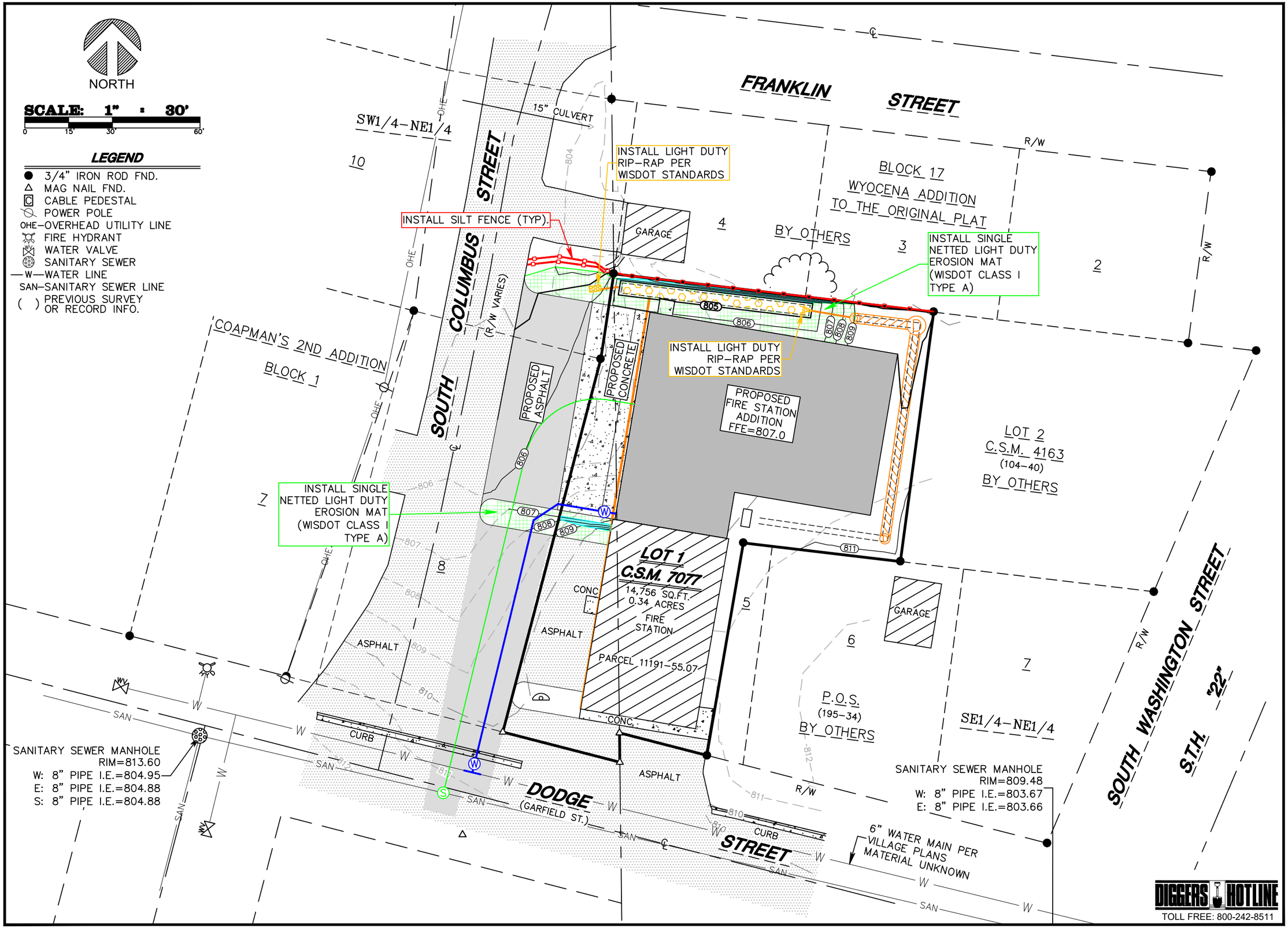
NORTH

**SCALE: 1" = 30'**

0 15' 30' 60'

## LEGEND

- ● 3/4" IRON ROD FND.
- △ MAG NAIL FND.
- C CABLE PEDESTAL
- POWER POLE
- OHE—OVERHEAD UTILITY LINE
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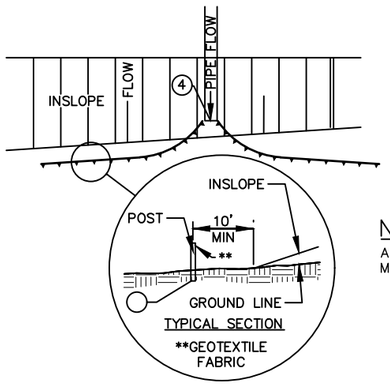
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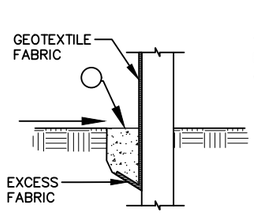
SHEET NAME:
PROPOSED EROSION CONTROL PLAN

G&A PROJECT NO.: 626–348

SHEET NO.
C5.0



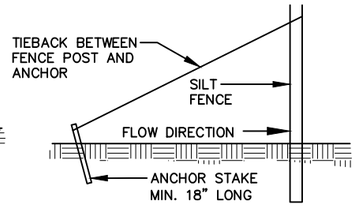

SILT FENCE ALONG SLOPES & OUTFALLS




NOTE:

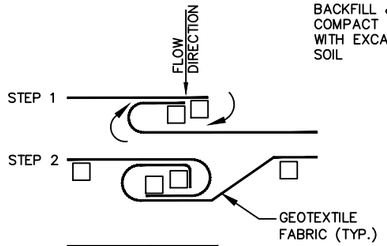
ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS.

TRENCH DETAIL

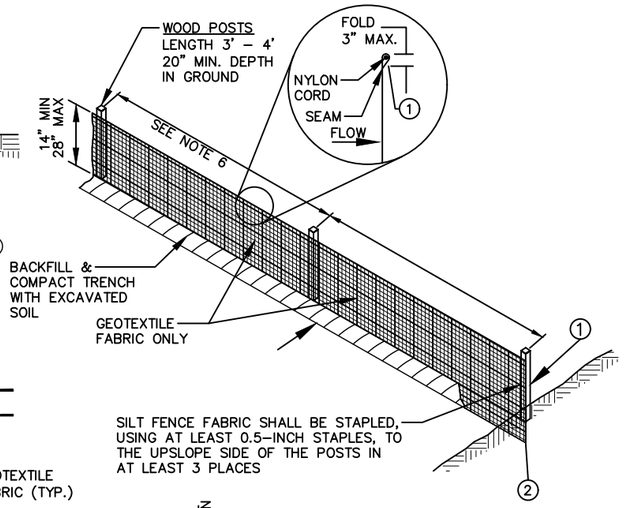


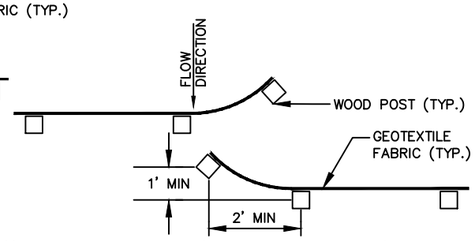

SILT FENCE TIE BACK

(WHEN ADDITIONAL SUPPORT REQUIRED)




JOINT (TWIST METHOD)




JOINT (HOOK METHOD)

SILT FENCE

N.T.S.

REV. 7-01-2019

## GENERAL NOTES:

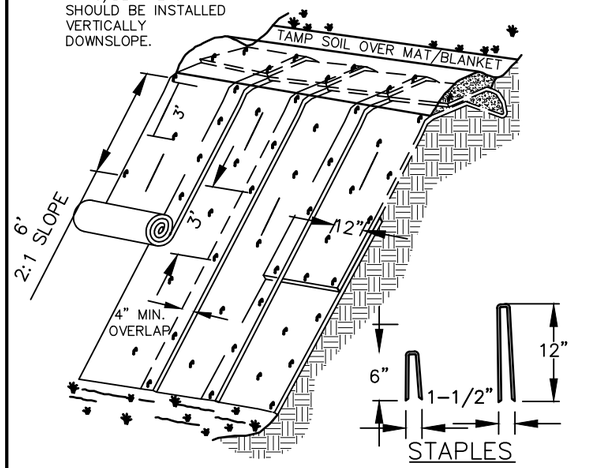
1. SILT FENCE SHALL BE ANCHORED BY SPREADING AT LEAST 8–INCHES OF FABRIC IN A 4–INCH WIDE AND 6–INCH DEEP TRENCH OR 6–INCH DEEP V–TRENCH ON THE UPSLOPE SIDE OF THE FENCE. TRENCHES SHALL NOT BE EXCAVATED WIDER OR DEEPER THAN NECESSARY FOR PROPER INSTALLATION.
2. FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1.125–INCHES x 1.125–INCHES OF DRIED OAK OR HICKORY.
4. SILT FENCE TO EXTEND ABOVE THE TOP OF PIPE.
5. SILT FENCE CONSTRUCTION AND GEOTEXTILE FABRIC SHALL CONFORM TO WDNR TECHNICAL STANDARD 1056.
6. POST SPACING SHALL BE SELECTED BASED ON GEOTEXTILE FABRIC (8–FEET FOR WOVEN & 3–FEET FOR NON–WOVEN)

## STORMWATER RUNOFF RATES

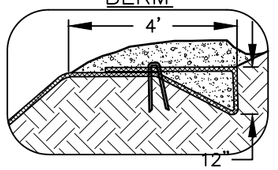
| 24 HOUR STORM EVENT | EXISTING CONDITIONS PEAK RATE (C.F.S.) | PROPOSED CONDITIONS PEAK RATE (C.F.S.) |
|---|---|---|
| 1YR – 2.43 INCHES | 0.64 | 0.63 |
| 2YR – 2.76 INCHES | 0.73 | 0.72 |
| 10YR – 3.96 INCHES | 1.06 | 1.06 |
| 25YR – 4.88 INCHES | 1.31 | 1.32 |
| 100YR – 6.52 INCHES | 1.90 | 1.89 |

NOTE:

MATS/BLANKETS SHOULD BE INSTALLED VERTICALLY DOWNSLOPE.




ISOMETRIC VIEW



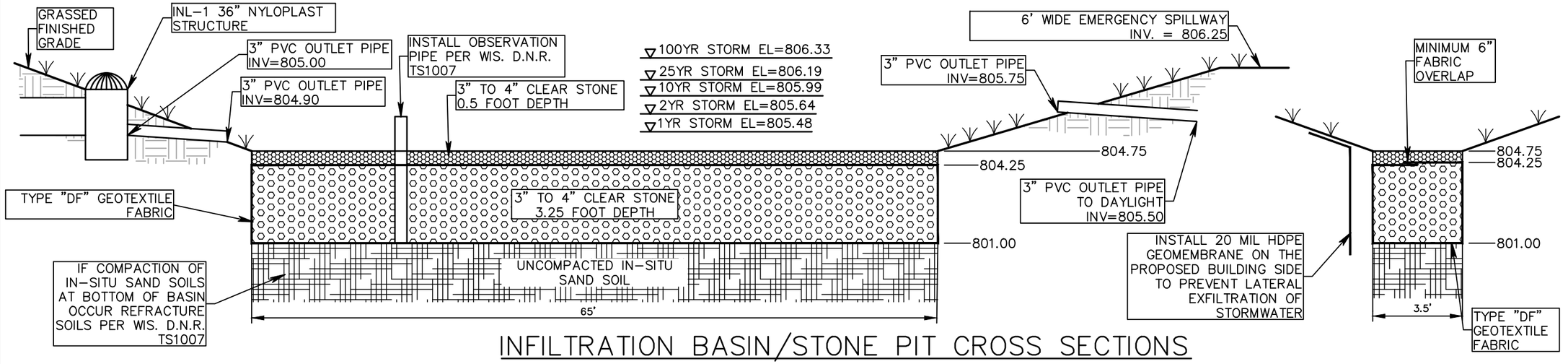

TYPICAL SLOPE SOIL STABILIZATION

## GENERAL NOTES:

1. EROSION MAT CONSTRUCTION SHALL BE IN ACCORDANCE WITH WISCONSIN DNR TECHNICAL STANDARD 1052 "NON–CHANNEL EROSION MAT".
2. ONLY WisDOT EROSION CONTROL PRODUCT ACCEPTABILITY LIST (PAL) APPROVED MATS SHALL BE ALLOWED. REFER TO EROSION CONTROL PLAN FOR EXACT MAT CLASSIFICATION.
3. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
4. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
5. ONLY WisDOT EROSION CONTROL PRODUCT ACCEPTABILITY LIST (PAL) APPROVED MATS SHALL BE ALLOWED. REFER TO EROSION CONTROL PLAN FOR EXACT MAT CLASSIFICATION.

EROSION MATTING

N.T.S.




INFILTRATION BASIN/STONE PIT CROSS SECTIONS

N.T.S.

GROTHMAN & ASSOCIATES, S.C.
PROFESSIONAL SERVICES
625 EAST SLIFER STREET
BOX 373, PORTAGE, WI 53901
PORTAGE: (608) 742–7788; SAUK: (608) 644–8877
WWW.GROTHMAN.COM; Surveying@Grothman.com

CLIENT:
LIEN & PETERSON ARCHITECTS

CLIENT ADDRESS:
4675 ROYAL DRIVE
EAU CLAIRE, WI 54701

REVISIONS:

| # | DATE | DESCRIPTION |
|---|---|---|
| 1 | 8–4–2026 | REVISED PER CLIENT COMMENTS |
| 2 | 8–10–2026 | REVISED PER CLIENT COMMENTS |

PRELIMINARY

DESIGNED/DRAWN: AJJ
APPROVED: TAT
DRAWING ISSUE DATE: 7/31/2026

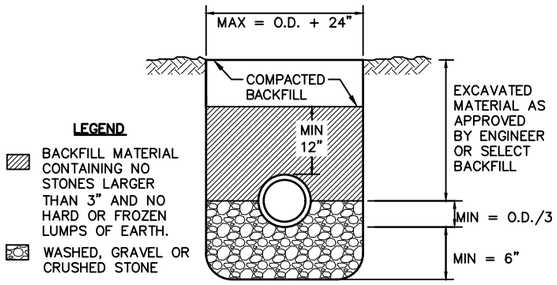
PROJECT NAME:
VILLAGE OF WYOCENA FIRE STATION ADDITION

PROJECT LOCATION:
BEING LOT 1, C.S.M. 7077, AS RECORDED IN VOLUME 53 OF C.S.M.S, PAGE 91, AS DOCUMENT 91, LOCATED IN THE SE1/4 OF THE NE1/4 AND THE SW1/4 OF THE NE1/4, SECTION 21, T.12N., R.10E., VILLAGE OF WYOCENA, COLUMBIA COUNTY, WISCONSIN

SHEET NAME:
CONSTRUCTION DETAILS

G&A PROJECT NO.: 626–348

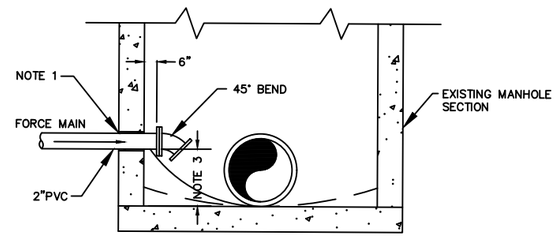
SHEET NO.
C6.0




## STORM & SANITARY SEWER BEDDING

N.T.S.

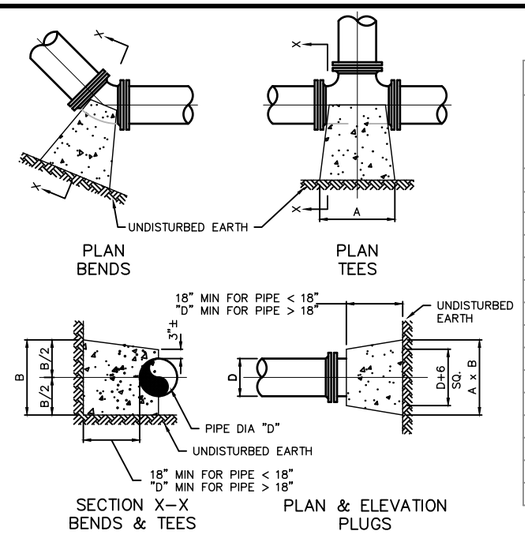
REV. 8-9-2018




NOTES:
1. PROVIDE PIPE BOOT WITH SST HARWARE ON NEW MANHOLES. CORE HOLE FOR NEW FORCE MAIN AND FILL VOIDS WITH NON-SHRINK GROUT.
2. LINE INTERIOR OF RECEIVING MANHOLE AS SPECIFIED.
3. PROVIDE DROP MANHOLE FOR DISTANCES 24" OR GREATER ABOVE INVERT.

## FORCE MAIN DISCHARGE

NOT TO SCALE




## THRUST BLOCK DETAIL

N.T.S.

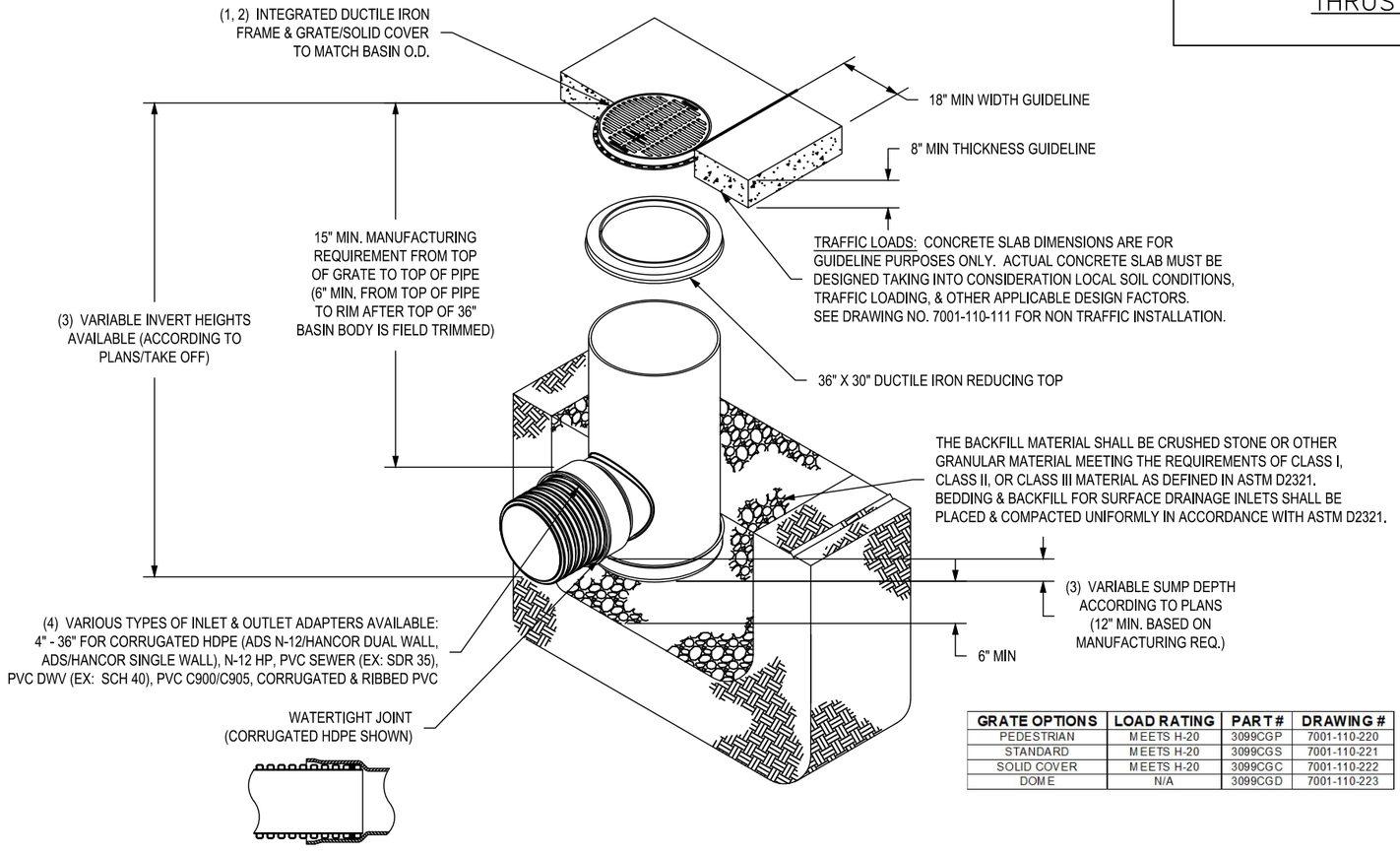
DESIGN PIPE PRESSURE = 150 psi
ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF

MIN. THRUST BLOCK BEARING AREAS (S.F.)

| SIZE | 90° BEND AxB | 45° BEND AxB | 22 1/2° BEND AxB | 11 1/4° BEND AxB | PLUGS OR TEES AxB |
|---|---|---|---|---|---|
| 4 | 1.3 | 0.7 | 0.4 | 0.2 | 0.9 |
| 6 | 3.0 | 1.6 | 0.8 | 0.4 | 2.1 |
| 8 | 5.3 | 2.9 | 1.5 | 0.7 | 3.8 |
| 10 | 8.3 | 4.5 | 2.3 | 1.2 | 5.9 |
| 12 | 12.0 | 6.5 | 3.3 | 1.7 | 8.5 |
| 14 | 16.3 | 8.8 | 4.5 | 2.3 | 11.5 |
| 16 | 21.3 | 11.5 | 5.9 | 3.0 | 15.1 |
| 18 | 27.0 | 14.6 | 7.4 | 3.7 | 19.1 |
| 20 | 33.3 | 18.0 | 9.2 | 4.6 | 23.6 |
| 24 | 48.0 | 26.0 | 13.2 | 6.7 | 33.9 |
| 30 | 75.0 | 40.6 | 20.7 | 10.4 | 53.0 |
| 36 | 108.0 | 58.4 | 29.8 | 15.0 | 76.3 |
| 42 | 146.9 | 79.5 | 40.5 | 20.4 | 103.9 |
| 48 | 191.9 | 103.9 | 53.0 | 26.6 | 135.7 |
| 54 | 242.9 | 131.5 | 67.0 | 33.7 | 171.8 |

NOTES:
DIMENSIONS A & B SHALL BE DETERMINED IN THE FIELD AS REQUIRED TO PROVIDE THE GIVEN BEARING AREA AND TO MEET FIELD CONDITIONS.
SEE PIPING PLANS FOR THRUST BLOCK BEARING AREA (M.B.A) FOR PIPES GREATER THAN 48" DIA.

## NYLOPLAST 36" DRAIN BASIN: 2836AG _ _X

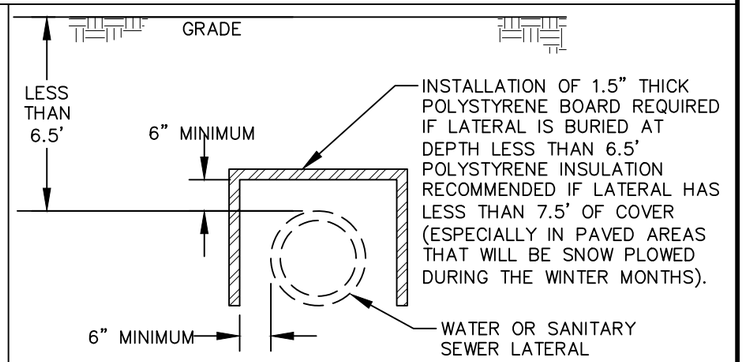



| GRATE OPTIONS | LOAD RATING | PART # | DRAWING # |
|---|---|---|---|
| PEDESTRIAN | MEETS H-20 | 3099CGP | 7001-110-220 |
| STANDARD | MEETS H-20 | 3099CGS | 7001-110-221 |
| SOLID COVER | MEETS H-20 | 3099CGC | 7001-110-222 |
| DOME | N/A | 3099CGD | 7001-110-223 |

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - FRAMES & REDUCING TOP SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASIN BODIES OVER 84" DUE TO SHIPPING RESTRICTIONS.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

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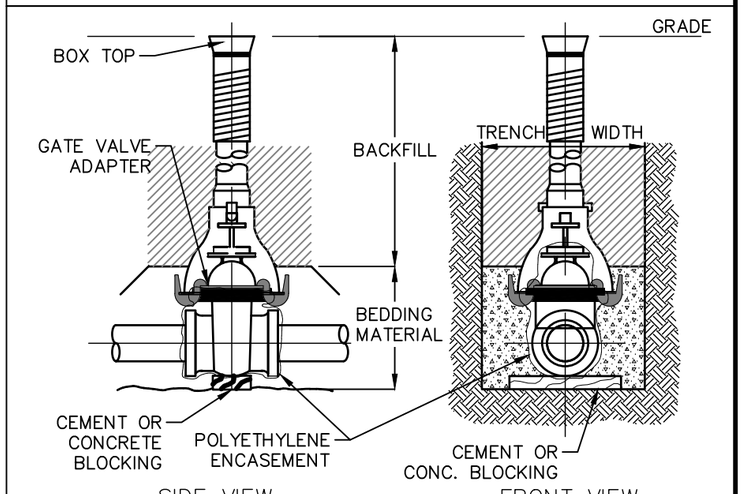
| | | | |
|---|---|---|---|
| DRAWN BY NMH DATE 9-21-18 | MATERIAL | ADS Nyloplast | 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com |
| APPD BY NMH DATE 9-21-18 | | | |
| REVSD BY NMH DATE 10-04-21 | PROJECT NO./NAME | TITLE | 36" DRAIN BASIN QUICK SPEC INSTALLATION DETAIL |
| APPD BY NMH DATE 10-04-21 | | | |
| DWG SIZE A | SCALE 1:40 SHEET 1 OF 1 | DWG NO. 7001-110-526 | REV B |




## FROST SEPARATION

N.T.S.

REV. 8-9-2018




## GATE VALVE BOX SETTING

N.T.S.

REV. 5-19-2017

GROTHMAN & ASSOCIATES, S.C.
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BOX 373, PORTAGE, WI 53901
PORTAGE: (608) 742-7788; SAUK: (608) 644-8877
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4675 ROYAL DRIVE
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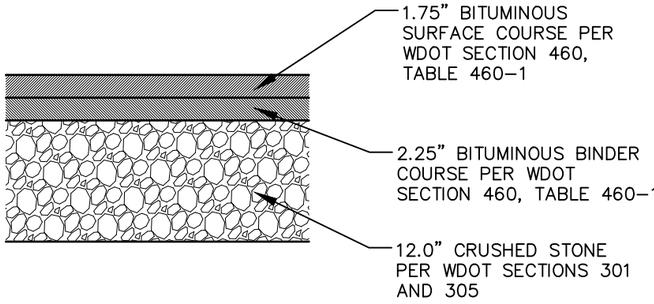
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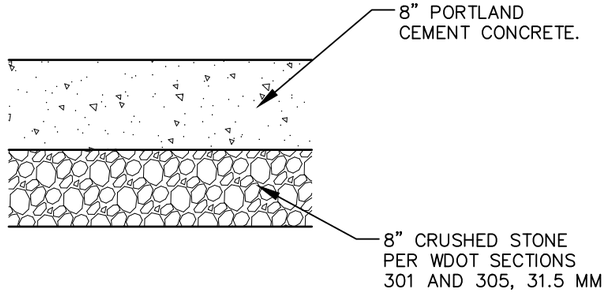
SHEET NAME:
CONSTRUCTION DETAILS

G&A PROJECT NO.: 626-348

SHEET NO.
C6.1




MEDIUM DUTY ASPHALT PAVEMENT SECTION




CONCRETE PAVEMENT SECTION

## GENERAL NOTES:

1. REFER TO PAVEMENT RECOMMENDATIONS IN THE GEOTECHNICAL INVESTIGATION REPORT, PREPARED BY CGC, INC. TITLED "GEOTECHNICAL EXPLORATION WYOCENA FIRE STATION ADDITION" DATED JUNE 9, 2026. IF THERE ARE ANY DISCREPANCIES BETWEEN THIS DETAIL AND THE PAVEMENT RECOMMENDATIONS PROVIDED IN THE GEOTECHINCAL INVESTIGATION REPORT, THE GEOTECHNICAL REPORT SHALL GOVERN.

2. WISDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, INCLUDING SUPPLEMENTAL SPECIFICATIONS, BUT EXCLUDING LIMITATIONS IN SECTION 460.3.2 RESTRICTING LAYER THICKNESS BY AGGREGATE SIZE.

3. COMPACTION REQUIREMENTS:
   - BITUMINOUS CONCRETE: REFER TO SECTION 460-3.
   - BASE COURSE: REFER TO SECTION 301.3.4.2, STANDARD COMPACTION.

4. MIXTURE TYPE MT H GRADE BITUMINOUS PAVEMENT IS RECOMMENDED; REFER TO SECTION 460, TABLE 460-2 OF THE STANDARD SPECIFICATIONS.

5. CONCRETE EQUIPMENT PADS SHALL HAVE A MINIMUM 8" THICK PORTLAND CEMENTER CONCRETE OVER COMPACTED 8" THICK DENSE GRADED BASE WITH REINFORCEMENT FOR CRACK CONTROL.

# PAVEMENT SECTIONS

REV. 7-23-2018

N.T.S.

GROTHMAN & ASSOCIATES, S.C.
PROFESSIONAL SERVICES
625 EAST SLIFER STREET
BOX 373, PORTAGE, WI 53901
PORTAGE: (608) 742-7788; SAUK: (608) 644-8877
WWW.GROTHMAN.COM; Surveying@Grothman.com

CLIENT:
LIEN & PETERSON ARCHITECTS

CLIENT ADDRESS:
4675 ROYAL DRIVE
EAU CLAIRE, WI 54701

REVISIONS:

| # | DATE | DESCRIPTION |
|---|---|---|
| 1 | 8-4-2026 | REVISED PER CLIENT COMMENTS |
| 2 | 8-10-2026 | REVISED PER CLIENT COMMENTS |

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APPROVED: TAT
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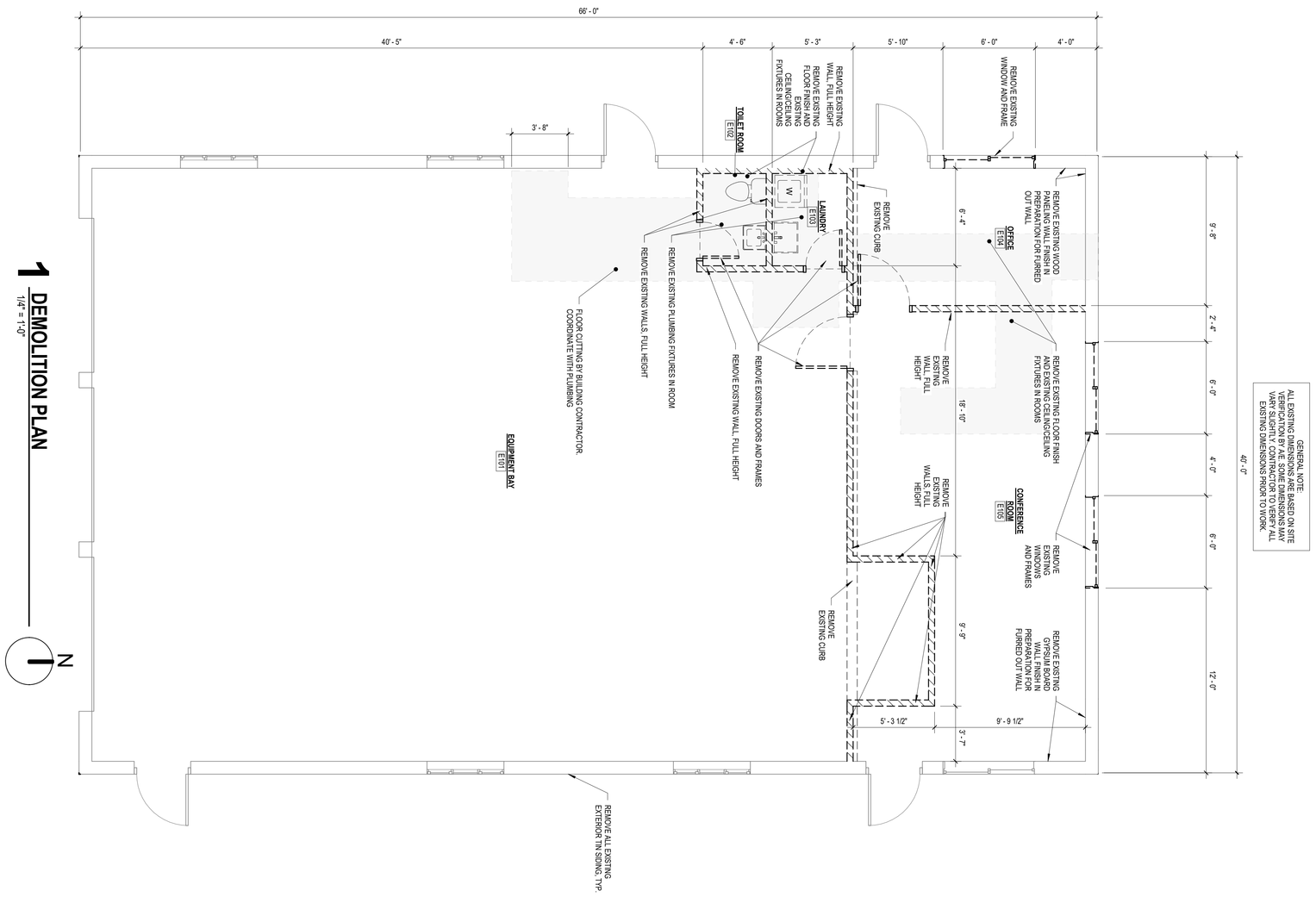
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SHEET NAME:
CONSTRUCTION DETAILS

G&A PROJECT NO.: 626-348

SHEET NO.
C6.2

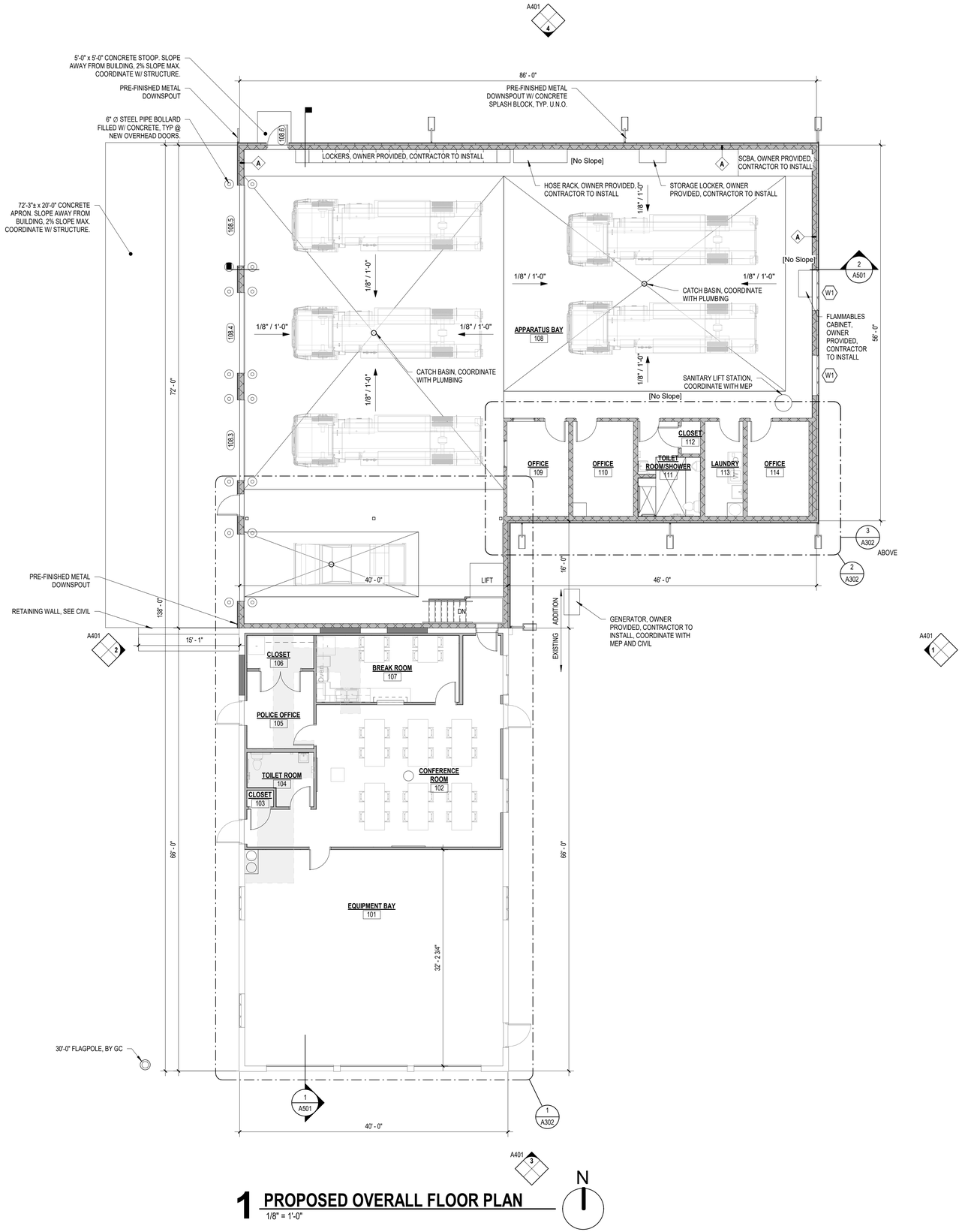



**1 DEMOLITION PLAN**
1/4" = 1'-0"

N

| | | | |
|---|---|---|---|
| DEMOLITION FLOOR PLAN | WYOCENA FIRE DEPARTMENT ADDITION<br>284 S COLUMBUS STREET<br>WYOCENA, WI 53969 | **LIEN & PETERSON ARCHITECTS, INC**<br>4675 ROYAL DRIVE — PO BOX 925<br>EAU CLAIRE, WI — 54701<br>TELEPHONE — 715-835-7500<br>EMAIL — admin@2dlp.com | ARCHITECTS L&P ENGINEERS |

ISSUE DATE: AUGUST 12, 2026
A201
L&P PROJECT # 26057
REVISIONS: NO. DATE




## 1 PROPOSED OVERALL FLOOR PLAN

1/8" = 1'-0"

## FLOOR PLAN LEGEND:

- ROOM NAME / 101 — ROOM TAG
- RM#.1 — DOOR TAG
- 1 / A1 / 1 / 1 / A.401 — ELEVATION TAG
- SIM / 1 / A101 — SECTION TAG
- W# — WINDOW TAG
- 1 — WALL TAG
- Name / Elevation — ELEVATION DATUM
- EXIT LIGHT

## GENERAL FLOOR PLAN NOTES:

A. INTERIOR AND EXTERIOR DIMENSIONS:
   a. EXTERIOR STUD WALLS: FACE OF EXTERIOR SIDE OF STUD
   b. OPENINGS: EDGES OF OPENING
   c. INTERIOR STUD WALLS: FACE OF STUD, NOMINAL
B. WOOD BLOCKING:
   a. PROVIDE SOLID WOOD BLOCKING FOR ALL WALL AND SOFFIT MOUNTED PRODUCTS AND EQUIPMENT INDICATED ON DRAWINGS
   b. PROVIDE SOLID WOOD BLOCKING TO RESIST A CONCENTRATED LOAD OF 250 POUNDS IN ANY DIRECTION BEHIND ALL GRAB BARS, SHOWER SEATS, AND ACCESSIBLE BENCHES
C. PROVIDE CORNER GUARD PROTECTION AT ALL OUTSIDE CORNERS
D. DOOR FRAMES SHALL BE LOCATED 4 1/2" FROM ADJACENT WALL UNLESS OTHERWISE NOTED.
E. GPDW @ WALLS TO HAVE CONTROL JOINTS @ 20'-0" O.C. MAX., TYP.
F. REQUIRED ADA CLEARANCES AT PLUMBING FIXTURES DENOTED WITH DASHED LINES.
G. PROVIDE ALL ADA COMPLIANT ROOM SIGNAGE, UNLESS OTHERWISE NOTED. ROOM SIGNAGE SHALL BE MOUNTED PER 4/G104.


ARCHITECTS L&P ENGINEERS

LIEN & PETERSON ARCHITECTS, INC
4675 ROYAL DRIVE
EAU CLAIRE, WI
TELEPHONE
EMAIL

PO BOX 925
54701
715-835-7500
admin@2dlp.com


WYOCENA FIRE DEPARTMENT ADDITION

284 S COLUMBUS STREET
WYOCENA, WI 53969

PROPOSED FLOOR PLAN

REVISIONS:

| NO. | DATE |
|---|---|

ISSUE DATE: AUGUST 12, 2026

A301

L&P PROJECT # 26057

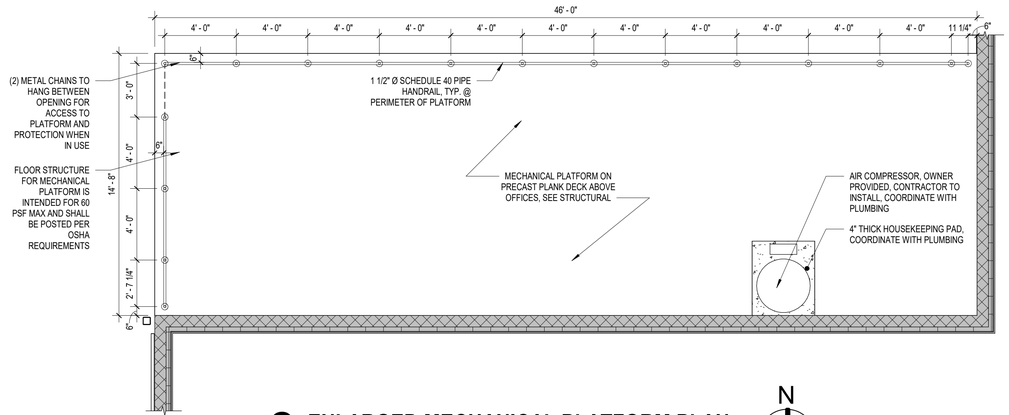
8/12/2026 12:34:24 PM PM Drafter Struct

## FLOOR PLAN LEGEND:

| | |
|---|---|
| ROOM NAME / 101 | ROOM TAG |
| RM#.1 | DOOR TAG |
| 1 / 1 / 1 / A.401 | ELEVATION TAG |
| 1 / A101 SIM | SECTION TAG |
| W# | WINDOW TAG |
| 1\| | WALL TAG |
| Name / Elevation | ELEVATION DATUM |
| | EXIT LIGHT |

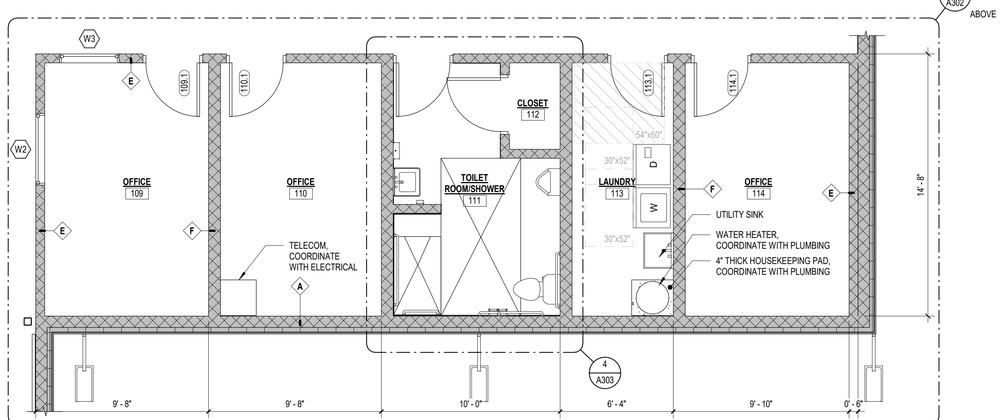
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F. REQUIRED ADA CLEARANCES AT PLUMBING FIXTURES DENOTED WITH DASHED LINES.
G. PROVIDE ALL ADA COMPLIANT ROOM SIGNAGE, UNLESS OTHERWISE NOTED. ROOM SIGNAGE SHALL BE MOUNTED PER 4/G104.



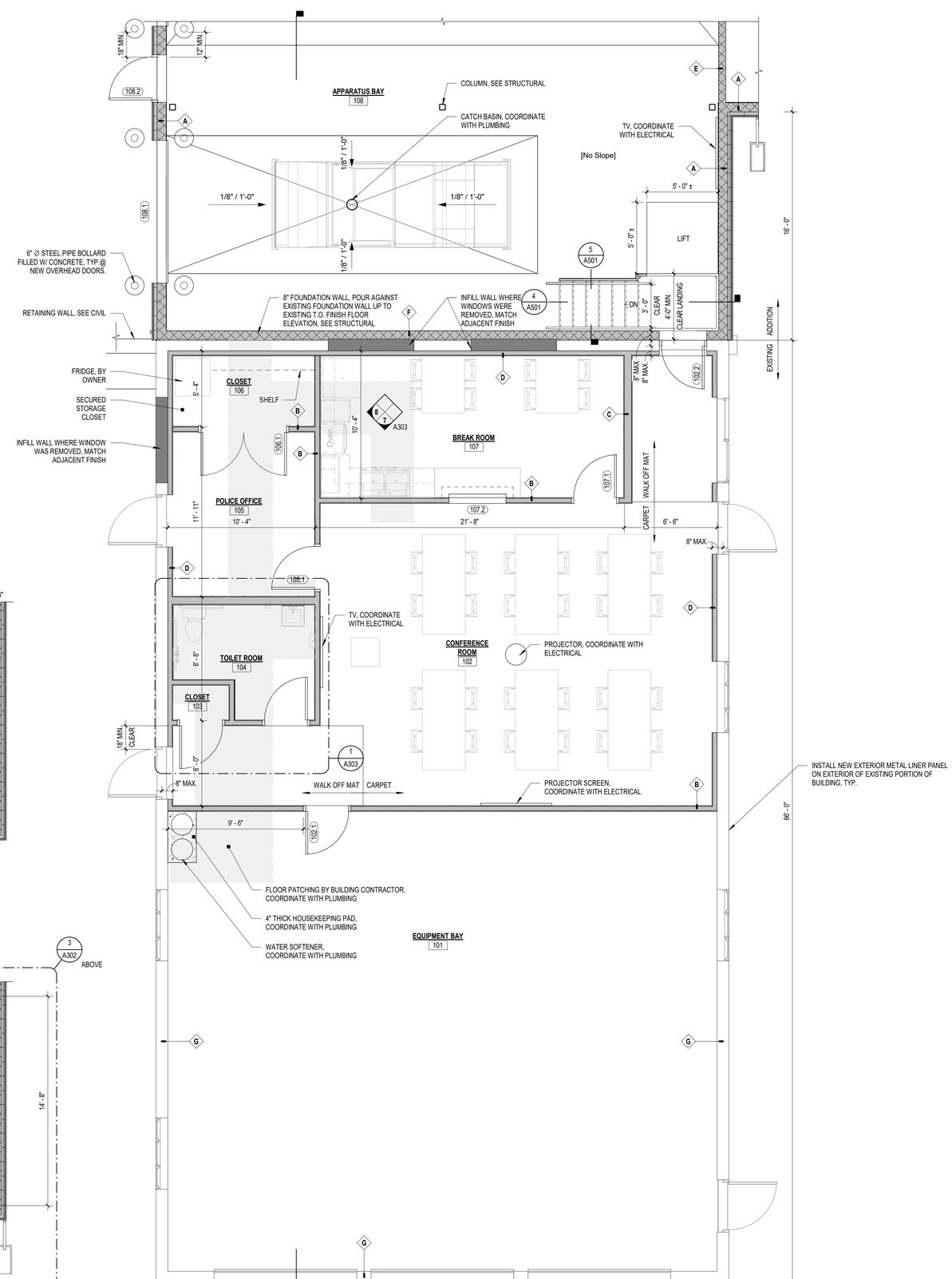

## 3 ENLARGED MECHANICAL PLATFORM PLAN

1/4" = 1'-0"




## 2 ENLARGED OFFICE FLOOR PLAN

1/4" = 1'-0"




## 1 ENLARGED PROPOSED FLOOR PLAN

1/4" = 1'-0"


LIEN & PETERSON ARCHITECTS, INC
4675 ROYAL DRIVE
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54701
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admin@2dlp.com
ARCHITECTS L&P ENGINEERS


WYOCENA FIRE DEPARTMENT
ADDITION
284 S COLUMBUS STREET
WYOCENA, WI 53969

ENLARGED FLOOR PLANS

REVISIONS:

| NO. | DATE |
|---|---|

ISSUE DATE:
AUGUST 12, 2026

A302

L&P PROJECT # 26057

8/13/2026 11:22:52 AM PM Drafter Struct

## FLOOR PLAN LEGEND:

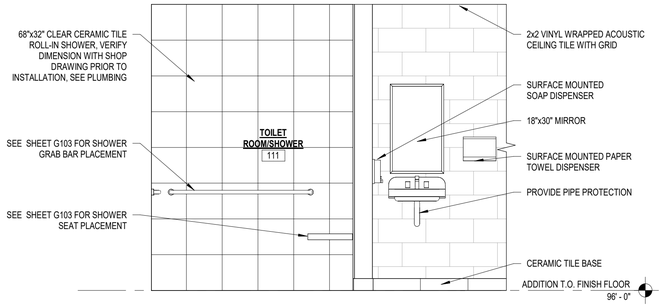
| | |
|---|---|
| ROOM NAME 101 | ROOM TAG |
| RM# 1 | DOOR TAG |
| 1 1 1 A.401 | ELEVATION TAG |
| 1 A101 SIM | SECTION TAG |
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| Name / Elevation | ELEVATION DATUM |
| | EXIT LIGHT |

## GENERAL FLOOR PLAN NOTES:

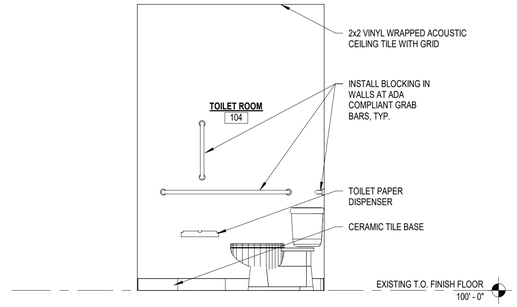
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B. WOOD BLOCKING:
   a. PROVIDE SOLID WOOD BLOCKING FOR ALL WALL AND SOFFIT MOUNTED PRODUCTS AND EQUIPMENT INDICATED ON DRAWINGS
   b. PROVIDE SOLID WOOD BLOCKING TO RESIST A CONCENTRATED LOAD OF 250 POUNDS IN ANY DIRECTION BEHIND ALL GRAB BARS, SHOWER SEATS, AND ACCESSIBLE BENCHES
C. PROVIDE CORNER GUARD PROTECTION AT ALL OUTSIDE CORNERS
D. DOOR FRAMES SHALL BE LOCATED 4 1/2" FROM ADJACENT WALL UNLESS OTHERWISE NOTED.
E. GPDW @ WALLS TO HAVE CONTROL JOINTS @ 20'-0" O.C. MAX., TYP.
F. REQUIRED ADA CLEARANCES AT PLUMBING FIXTURES DENOTED WITH DASHED LINES.
G. PROVIDE ALL ADA COMPLIANT ROOM SIGNAGE, UNLESS OTHERWISE NOTED. ROOM SIGNAGE SHALL BE MOUNTED PER 4/G104.

## GENERAL NOTE:

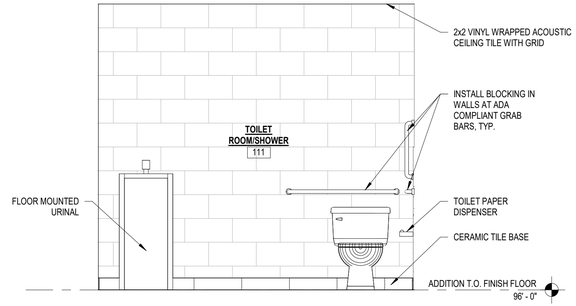
**SEE SHEET G103 FOR ALL REQUIRED FIXTURE LOCATIONS, MOUNTING HEIGHTS, AND CLEAR FLOOR SPACE REQUIREMENTS.**



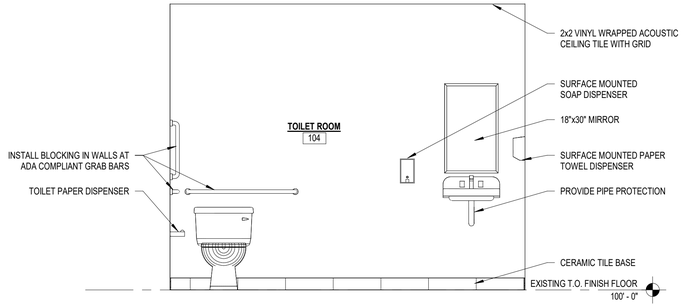

## 6 WEST - TOILET ROOM/SHOWER 111
1/2" = 1'-0"




## 3 WEST - TOILET ROOM 104
1/2" = 1'-0"

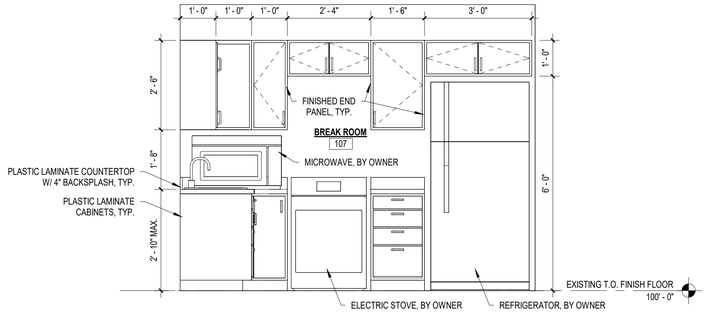



## 5 EAST - TOILET ROOM/SHOWER 111
1/2" = 1'-0"

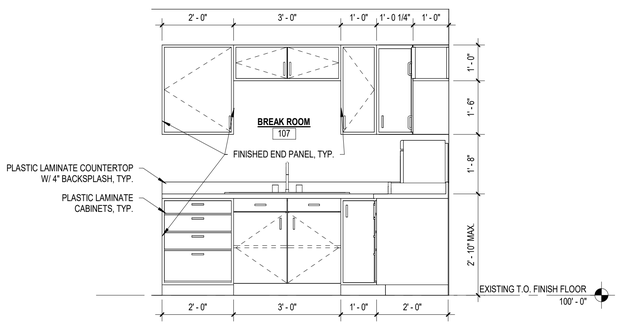



## 2 NORTH - TOILET ROOM 104
1/2" = 1'-0"

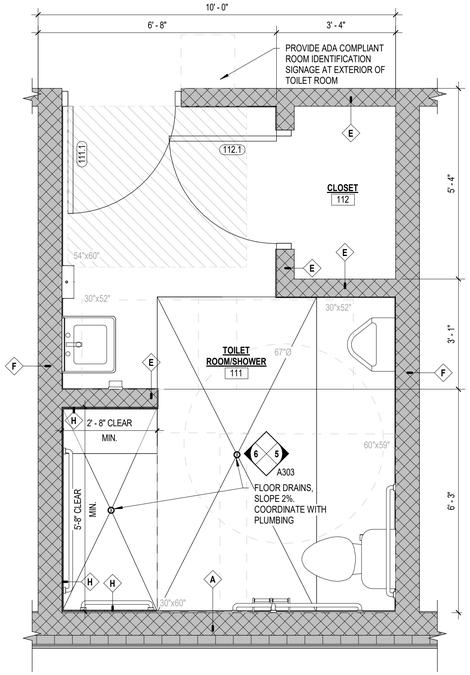
NOTE: APPLIANCES BY OWNER



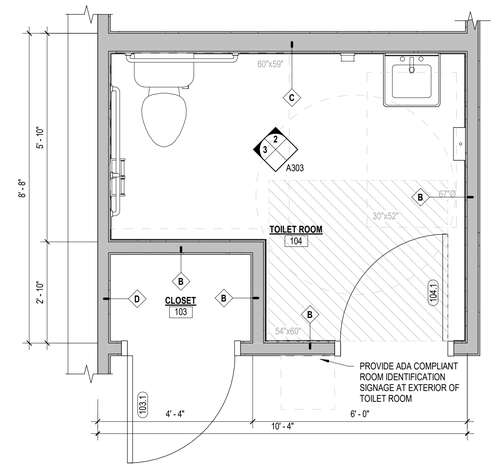

## 8 WEST - BREAK ROOM 107
1/2" = 1'-0"




## 7 SOUTH - BREAKROOM 107
1/2" = 1'-0"




## 4 ENLARGED TOILET ROOM/SHOWER 111
1/2" = 1'-0"




## 1 ENLARGED TOILET ROOM 104
1/2" = 1'-0"


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284 S COLUMBUS STREET
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ENLARGED TOILET ROOM PLANS, INTERIOR ELEVATIONS

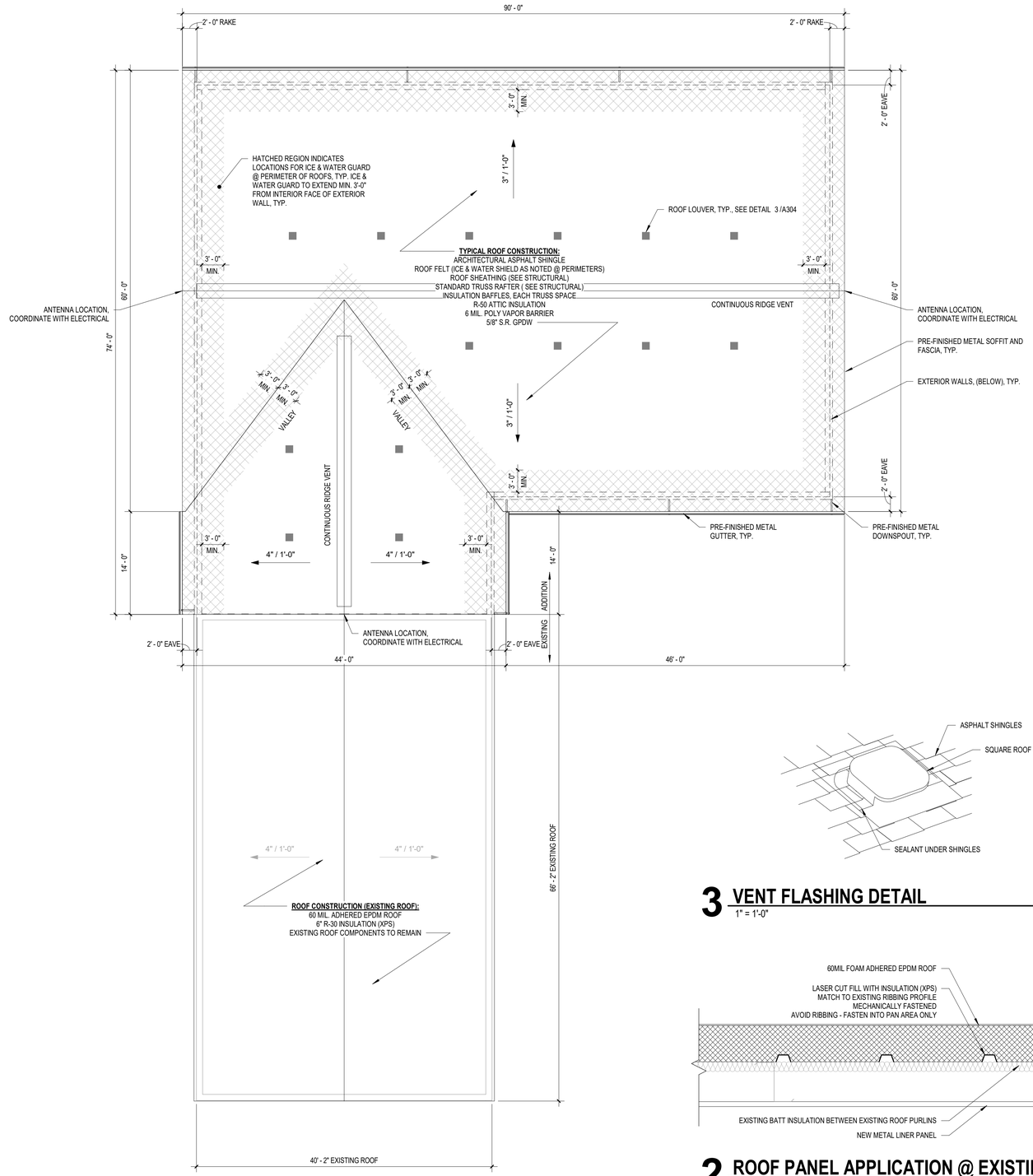
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## 1 PROPOSED ROOF PLAN

1/8" = 1'-0"

N




## 3 VENT FLASHING DETAIL

1" = 1'-0"




## 2 ROOF PANEL APPLICATION @ EXISTING ROOF

1" = 1'-0"


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ROOF PLAN

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## WINDOW SCHEDULE

| MARK | FRAME TYPE | WIDTH | HEIGHT | SILL HEIGHT | DETAIL HEAD | DETAIL JAMB | DETAIL SILL |
|---|---|---|---|---|---|---|---|
| W1 | ALUMINUM FIXED | 6' - 0" | 2' - 8" | 12' - 0" | 3/A503 | 2/A503 | 1/A503 |
| W2 | ALUMINUM FIXED | 4' - 0" | 2' - 8" | 4' - 0" | 6/A503 | 5/A503 | 4/A503 |
| W3 | ALUMINUM FIXED | 3' - 4" | 2' - 8" | 4' - 0" | 6/A503 | 5/A503 | 4/A503 |

## DOOR SCHEDULE

| NO. | DOOR TYPE | DOOR WIDTH | DOOR HEIGHT | DOOR THICKNESS | FRAME TYPE | FRAME HEAD | FRAME JAMB | FRAME SILL | DOOR MANEUVERING CLEARANCES (SEE G104) PUSH | PULL | HARDWARE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 102.1 | C | 3' - 0" | 7' - 0" | 0' - 1 3/4" | 2 | 8/A502 | 7/A502 | - | A,C,F | B,G | GROUP 2 |
| 102.2 | C | 3' - 0" | 7' - 0" | 0' - 1 3/4" | 2 | - | - | - | A | B | GROUP 2 |
| 103.1 | C | 3' - 0" | 7' - 0" | 0' - 1 3/4" | 2 | 8/A502 | 7/A502 | - | - | - | GROUP 6 |
| 104.1 | C | 3' - 0" | 7' - 0" | 0' - 1 3/4" | 2 | 8/A502 | 7/A502 | - | A,C,F | B,G | GROUP 4 |
| 105.1 | C | 3' - 0" | 7' - 0" | 0' - 1 3/4" | 2 | 8/A502 | 7/A502 | - | A,C,F | B,G | GROUP 5 |
| 106.1 | D | 6' - 0" | 7' - 0" | 0' - 1 3/4" | 4 | 8/A502 | 7/A502 | - | A,C,F | B,G | GROUP 3 |
| 107.1 | C | 3' - 0" | 7' - 0" | 0' - 1 3/4" | 2 | 8/A502 | 7/A502 | - | A,C,F | B,G | GROUP 2 |
| 107.2 | E | 4' - 0" | 3' - 0" | 0' - 2" | - | - | - | - | - | - | - |
| 108.1 | A | 10' - 0" | 10' - 0" | 0' - 1 1/2" | - | 6/A502 | 5/A502 | 4/A502 | - | - | GROUP 7 |
| 108.2 | B | 3' - 0" | 7' - 0" | 0' - 1 3/4" | 1 | 3/A502 | 2/A502 | 1/A502 | B | A | GROUP 1 |
| 108.3 | A | 12' - 0" | 14' - 0" | 0' - 1 1/2" | - | 6/A502 | 5/A502 | 4/A502 | - | - | GROUP 7 |
| 108.4 | A | 12' - 0" | 14' - 0" | 0' - 1 1/2" | - | 6/A502 | 5/A502 | 4/A502 | - | - | GROUP 7 |
| 108.5 | A | 12' - 0" | 14' - 0" | 0' - 1 1/2" | - | 6/A502 | 5/A502 | 4/A502 | - | - | GROUP 7 |
| 108.6 | B | 3' - 0" | 7' - 0" | 0' - 1 3/4" | 1 | 3/A502 | 2/A502 | 1/A502 | B | A | GROUP 1 |
| 109.1 | C | 3' - 0" | 7' - 0" | 0' - 1 3/4" | 3 | 10/A502 | 9/A502 | - | A,C,F | B,G | GROUP 5 |
| 110.1 | C | 3' - 0" | 7' - 0" | 0' - 1 3/4" | 3 | 10/A502 | 9/A502 | - | A,C,F | B,G | GROUP 5 |
| 111.1 | C | 3' - 0" | 7' - 0" | 0' - 1 3/4" | 3 | 10/A502 | 9/A502 | - | A,C,F | B,G | GROUP 4 |
| 112.1 | C | 3' - 0" | 7' - 0" | 0' - 1 3/4" | 3 | 10/A502 | 9/A502 | - | A,C,F | - | GROUP 6 |
| 113.1 | C | 3' - 0" | 7' - 0" | 0' - 1 3/4" | 3 | 10/A502 | 9/A502 | - | A,C,F | B,G | GROUP 6 |
| 114.1 | C | 3' - 0" | 7' - 0" | 0' - 1 3/4" | 3 | 10/A502 | 9/A502 | - | A,C,F | B,G | GROUP 5 |

## ROOM FINISH SCHEDULE

| NO. | NAME | FLOOR FINISH | BASE FINISH | WALL FINISH NORTH | WALL FINISH EAST | WALL FINISH SOUTH | WALL FINISH WEST | CEILING FINISH |
|---|---|---|---|---|---|---|---|---|
| 101 | EQUIPMENT BAY | EXIST | VINYL | MLP | MLP | MLP | MLP | MLP |
| 102 | CONFERENCE ROOM | CPT. | VINYL | GPDW / PNT-1 | GPDW / PNT-1 | GPDW / PNT-1 | GPDW / PNT-1 | ACT-1 |
| 103 | CLOSET | CPT. | VINYL | GPDW / PNT-1 | GPDW / PNT-1 | GPDW / PNT-1 | GPDW / PNT-1 | ACT-1 |
| 104 | TOILET ROOM | C.T. | C.T. | W.R. GPDW / PNT-1 | W.R. GPDW / PNT-1 | W.R. GPDW / PNT-1 | W.R. GPDW / PNT-2 | ACT-2 |
| 105 | POLICE OFFICE | CPT. | VINYL | GPDW / PNT-1 | GPDW / PNT-1 | GPDW / PNT-1 | GPDW / PNT-1 | ACT-1 |
| 106 | CLOSET | CPT. | VINYL | GPDW / PNT-1 | GPDW / PNT-1 | GPDW / PNT-1 | GPDW / PNT-1 | ACT-1 |
| 107 | BREAK ROOM | CPT. | VINYL | GPDW / PNT-1 | GPDW / PNT-1 | W.R. GPDW / PNT-2 | GPDW / PNT-1 | ACT-2 |
| 108 | APPARATUS BAY | CONC. | VINYL | PNT-3 | PNT-3 | PNT-3 | PNT-3 | S.R. GPDW / PNT-4 |
| 109 | OFFICE | CPT. | VINYL | PNT-3 | PNT-3 | PNT-3 | PNT-3 | ACT-1 |
| 110 | OFFICE | CPT. | VINYL | PNT-3 | PNT-3 | PNT-3 | PNT-3 | ACT-1 |
| 111 | TOILET ROOM/SHOWER | C.T. | C.T. | PNT-3 | PNT-3 | PNT-3 | PNT-3 | ACT-2 |
| 112 | CLOSET | C.T. | - | PNT-3 | PNT-3 | PNT-3 | PNT-3 | ACT-2 |
| 113 | LAUNDRY | CONC. | - | PNT-3 | PNT-3 | PNT-3 | PNT-3 | ACT-2 |
| 114 | OFFICE | CPT. | VINYL | PNT-3 | PNT-3 | PNT-3 | PNT-3 | ACT-1 |

## DOOR HARDWARE GROUPS:

**GROUP 1- EXT. SGL. ENTRANCE**
3 BALL BEARING HINGES
1 ENTRY FUNCTION LEVER HANDLE LOCKSET
1 DOOR CLOSER
1 SWEEP
1 THRESHOLD
WEATHER STRIPING AT JAMBS AND HEAD OF DOOR
(1) KEY LOCK BOX WITH PUSH BUTTONS

**GROUP 2- INT. SGL. PASSAGE**
3 BALL BEARING HINGES
1 LEVER HANDLE PASSAGE LOCKSET
1 DOOR CLOSER
1 WALL BUMPER

**GROUP 3- INT. DBL. STOREROOM**
6 BALL BEARING HINGES
2 LEVER HANDLE STOREROOM LOCKSET
PROVIDE CARD ACCESS
2 DOOR CLOSERS
2 WALL BUMPERS

**GROUP 4- INT. SGL. PRIVACY**
3 BALL BEARING HINGES
1 LEVER HANDLE PRIVACY LOCKSET
1 DOOR CLOSER
1 WALL BUMPER

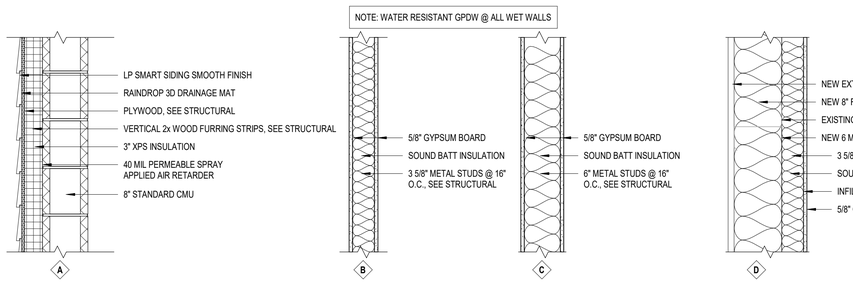
**GROUP 5- INT. SGL. OFFICE**
3 BALL BEARING HINGES
1 LEVER HANDLE OFFICE LOCKSET
1 DOOR CLOSER
1 WALL BUMPER

**GROUP 6- INT. SGL. STORAGE**
3 BALL BEARING HINGES
1 LEVER HANDLE STORAGE FUNCTION LOCKSET
1 DOOR CLOSER
1 WALL BUMPER

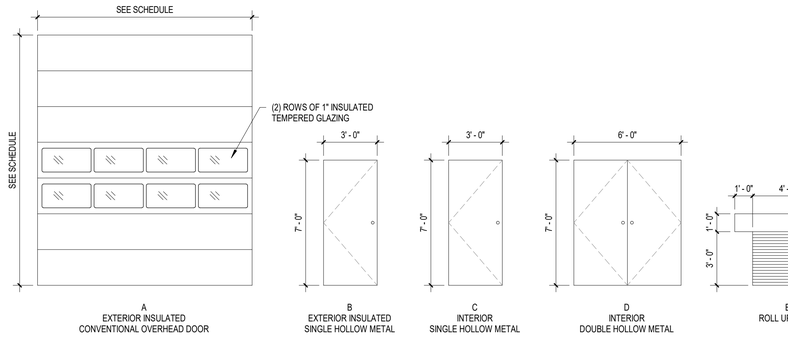
**GROUP 7- OVERHEAD DOOR**
PROVIDE (2) REMOTES PER DOOR
LIGHT CURTAIN OPTICAL SAFETY FOR EACH DOOR, SEE SPEC

## ROOM FINISH SCHEDULE ABBREVIATIONS:

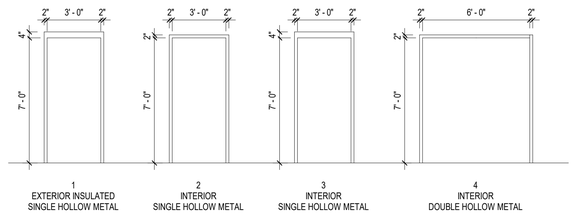
| | |
|---|---|
| ACT-1 | ACOUSTIC CEILING TILE AND GRID W/ HOLD DOWN CLIPS |
| ACT-2 | WASHABLE ACOUSTIC CEILING TILE AND GRID |
| CONC. | SEALED CONCRETE |
| CPT | CARPET TILE |
| C.T. | CERAMIC TILE |
| GPDW | 5/8" GYPSUM DRYWALL |
| MLP | METAL LINER PANEL |
| PNT-1 | PRIMER & (2) COATS WALL PAINT |
| PNT-2 | EPOXY PAINT |
| PNT-3 | PAINTED CMU |
| PNT-4 | PRIMER & (2) COATS CEILING PAINT |
| S.R. GPDW | 5/8" SAG RESISTANT GYPSUM WALL BOARD @ UNDERSIDE OF TRUSS |
| VINYL | 4" VINYL BASE |
| W.R. GPDW | WATER RESISTANT 5/8" GYPSUM DRYWALL |



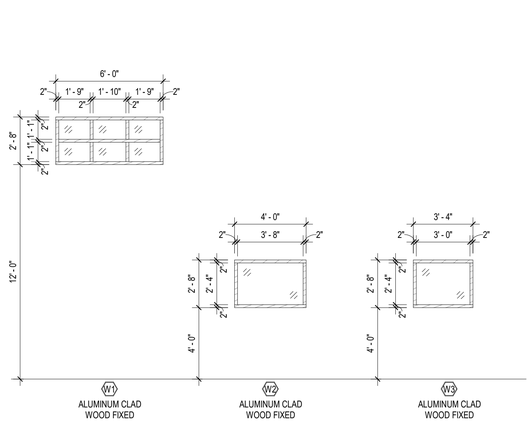

# 1 WALL TYPES
1" = 1'-0"




# 2 DOOR TYPES
1/4" = 1'-0"




# 3 FRAME TYPES
1/4" = 1'-0"




# 4 WINDOW TYPES
1/4" = 1'-0"


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WALL TYPES, DOOR TYPES, WINDOW TYPES, FRAME TYPES, SCHEDULES

REVISIONS:

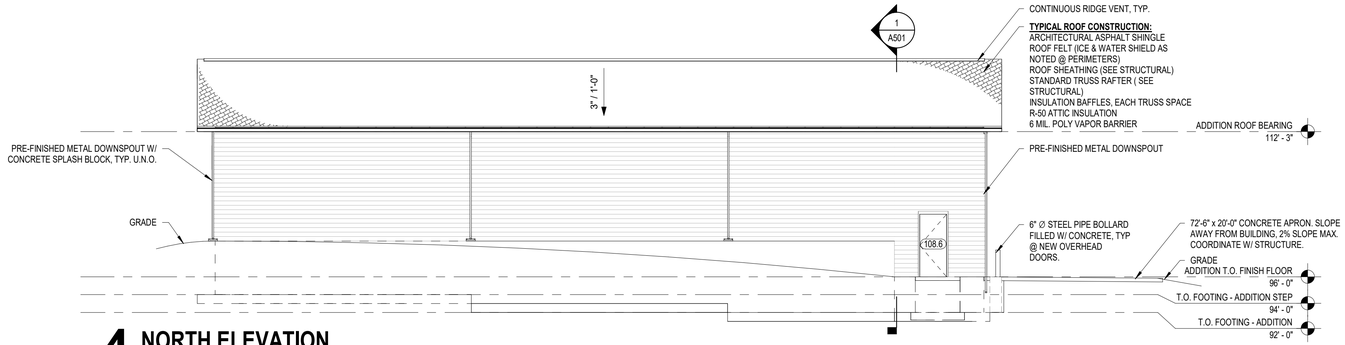
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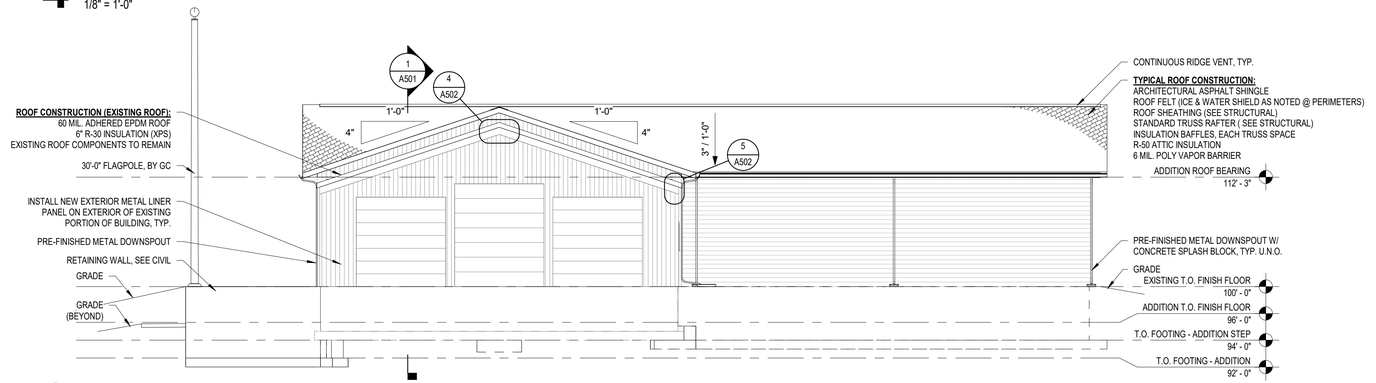
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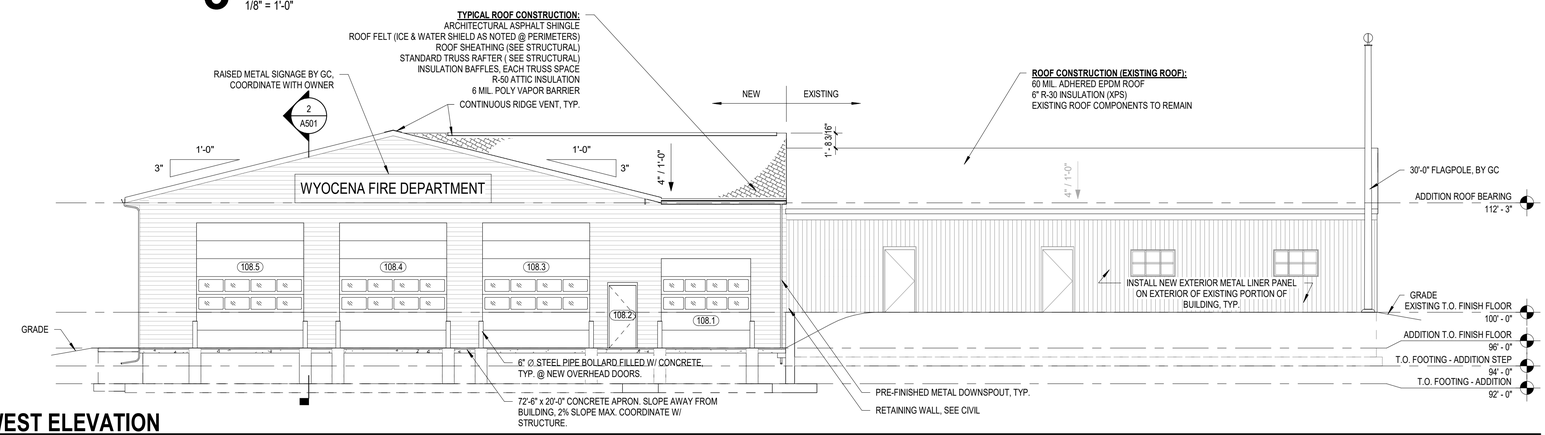
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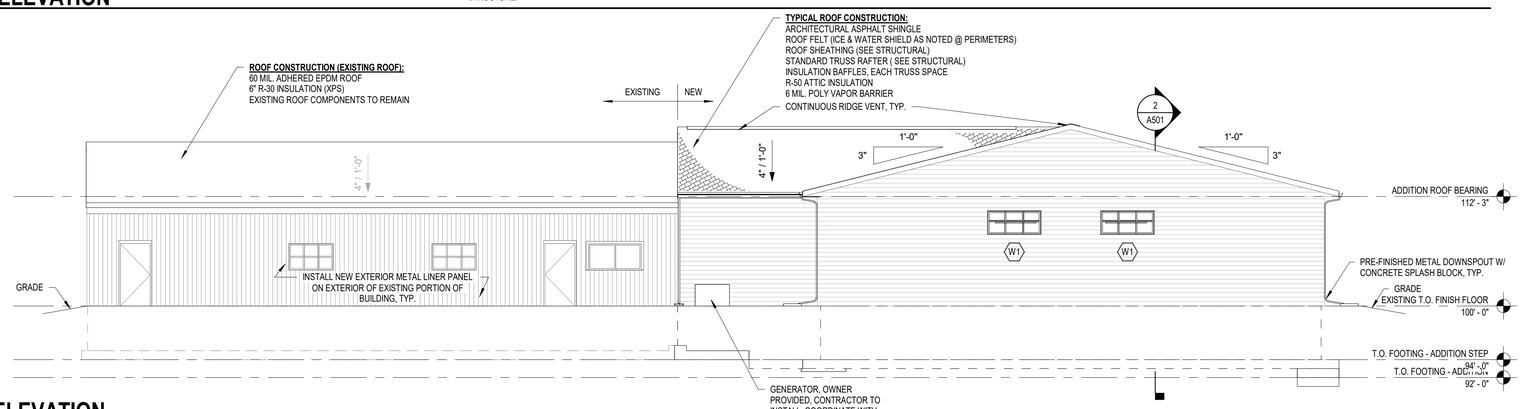

## 4 NORTH ELEVATION
1/8" = 1'-0"




## 3 SOUTH ELEVATION
1/8" = 1'-0"




## 2 WEST ELEVATION
1/8" = 1'-0"




## 1 EAST ELEVATION
1/8" = 1'-0"

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EXTERIOR ELEVATIONS

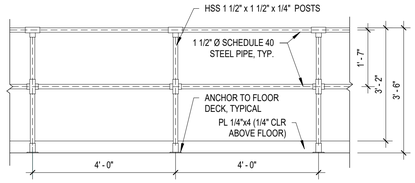
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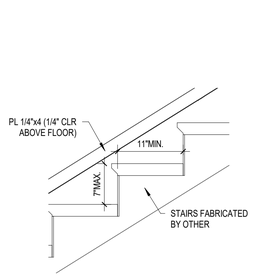
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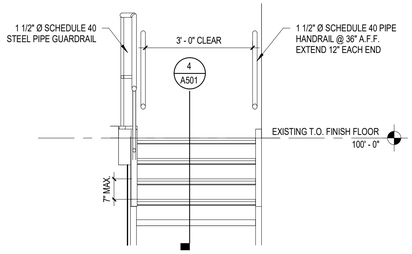
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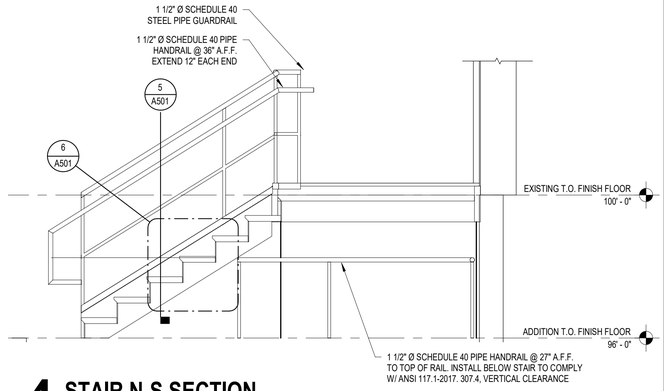

## 7 TYP. GUARD RAIL DETAIL
1/2" = 1'-0"



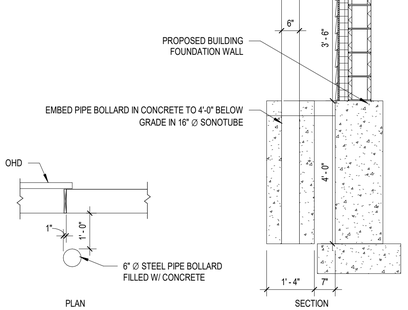

## 6 STAIR TREAD DETAIL
1" = 1'-0"



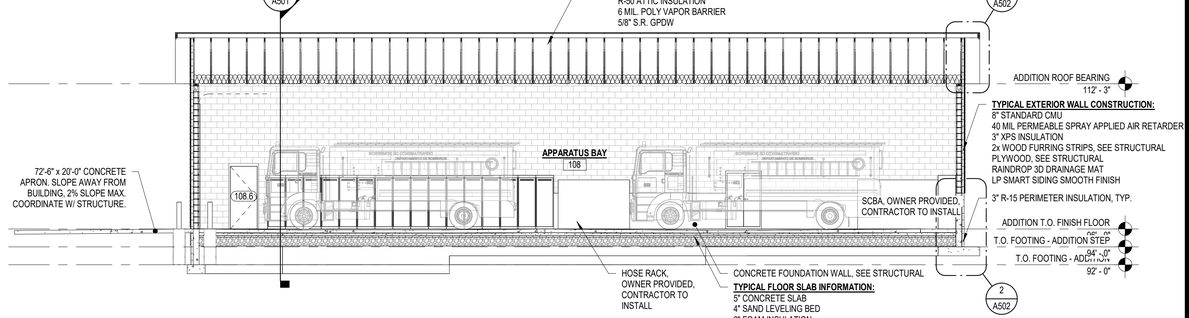

## 5 STAIR E-W SECTION
1/2" = 1'-0"



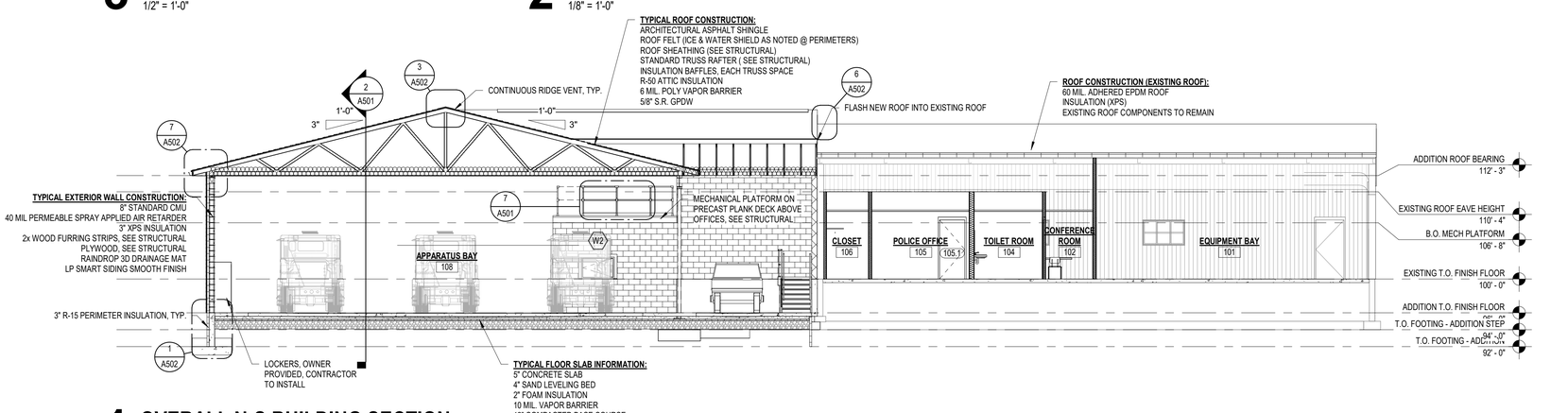

## 4 STAIR N-S SECTION
1/2" = 1'-0"




## 3 BOLLARD DETAIL
1/2" = 1'-0"




## 2 OVERALL E-W BUILDING SECTION
1/8" = 1'-0"




## 1 OVERALL N-S BUILDING SECTION
1/8" = 1'-0"

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BUILDING SECTIONS, DETAILS

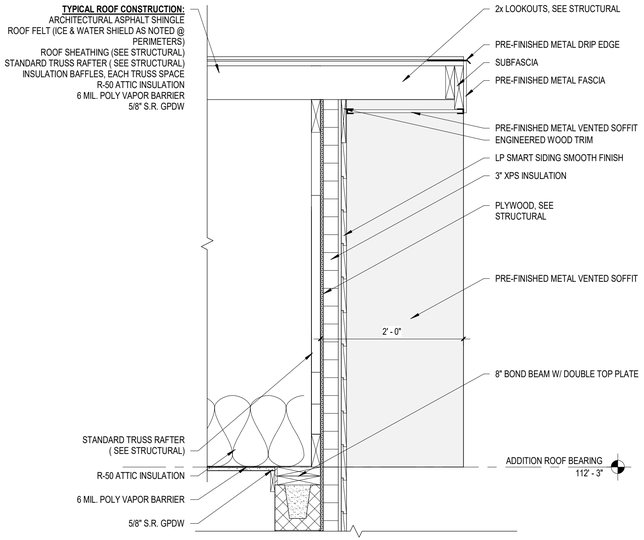
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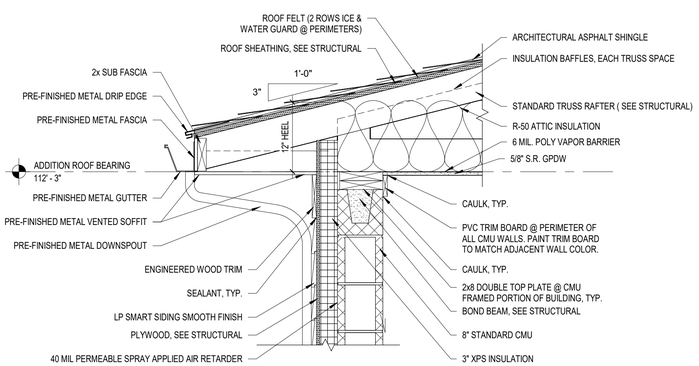
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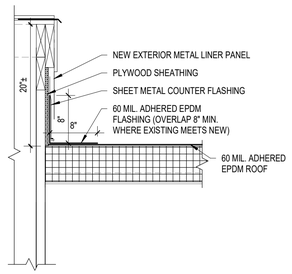
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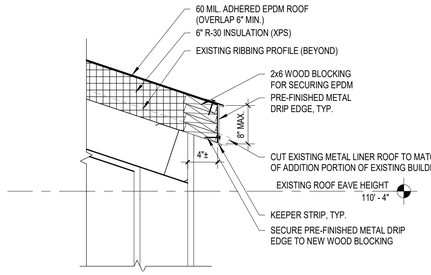

## 8 TYP. RAKE DETAIL
1" = 1'-0"



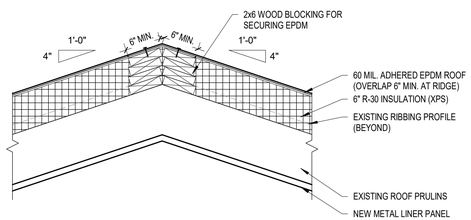

## 7 TYP. EAVE DETAIL
1" = 1'-0"



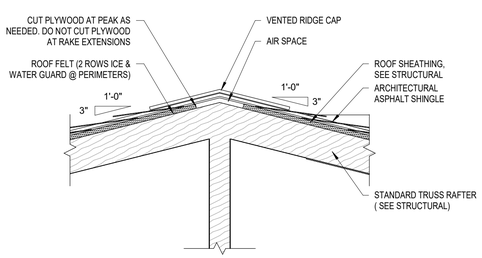

## 6 EXISTING ROOF FLASHING INTO NEW
1" = 1'-0"



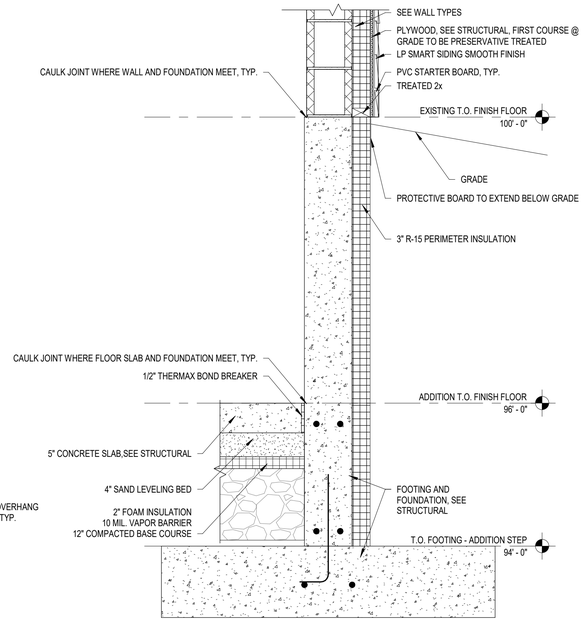

## 5 RIDGE EDGE @ EXISTING ROOF
1" = 1'-0"



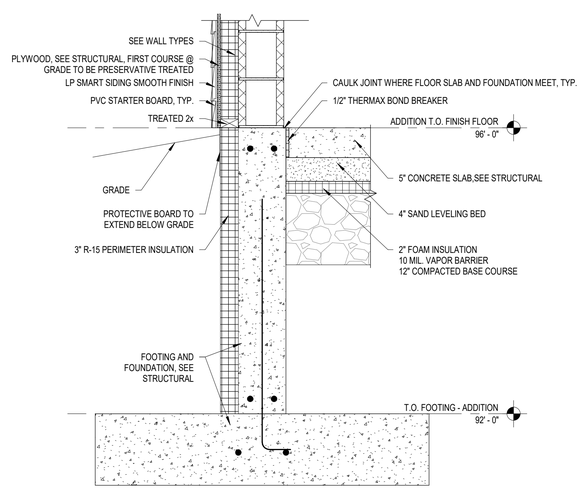

## 4 RIDGE VENT @ EXISTING ROOF
1" = 1'-0"




## 3 TYP. RIDGE VENT DETAIL
1" = 1'-0"




## 2 FOUNDATION DETAIL AT STEP
1" = 1'-0"




## 1 TYP. FOUNDATION DETAIL
1" = 1'-0"

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ARCHITECTS L&P ENGINEERS

WYOCENA FIRE DEPARTMENT
ADDITION
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WYOCENA, WI 53969

DETAILS

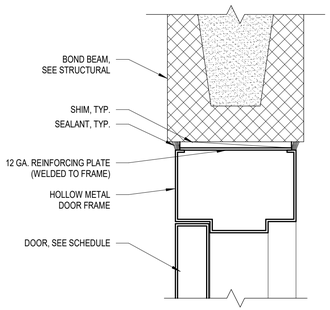
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NO. DATE

ISSUE DATE:
AUGUST 12, 2026

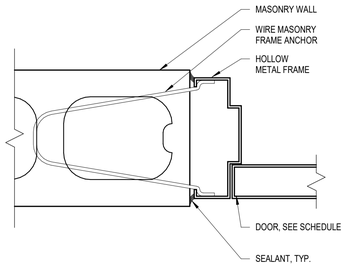
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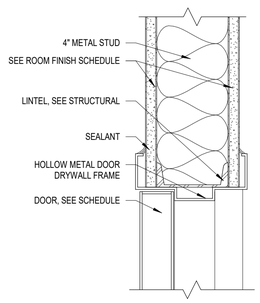
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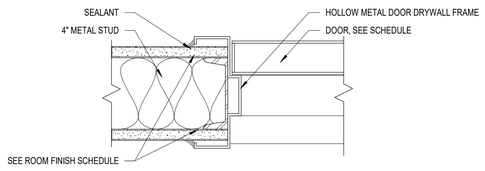

## 10 INT. H.M. DOOR HEAD @ CMU
3" = 1'-0"



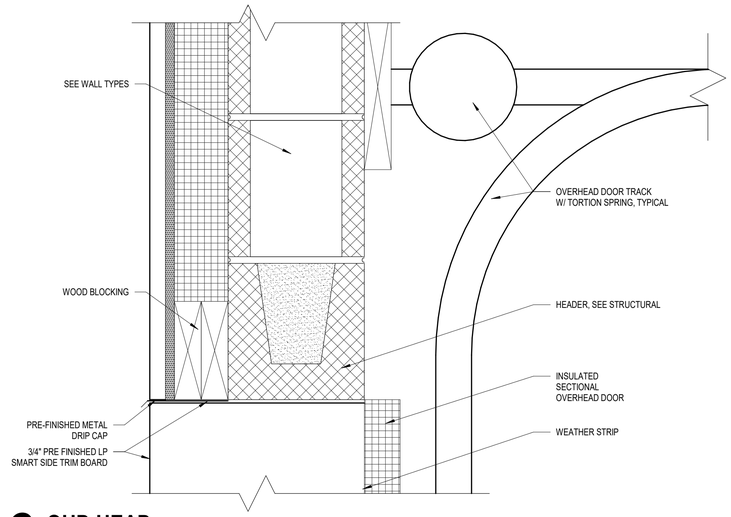

## 9 INT. H.M. DOOR JAMB @ CMU
3" = 1'-0"



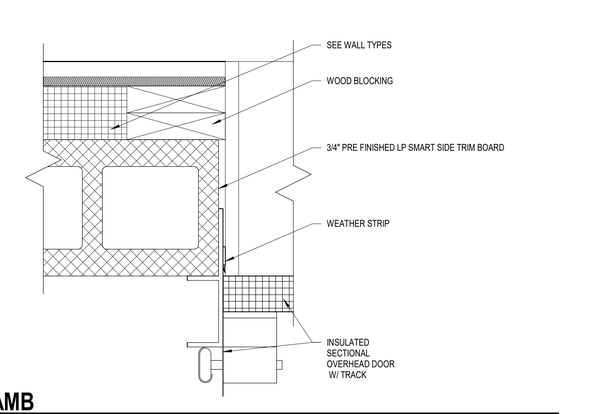

## 8 INT. H.M. DOOR HEAD
3" = 1'-0"



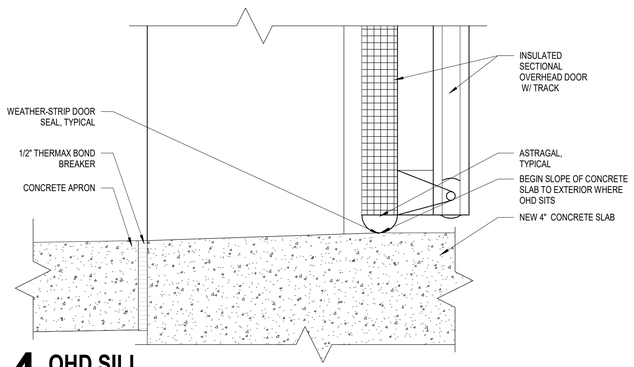

## 7 INT. H.M. DOOR JAMB
3" = 1'-0"



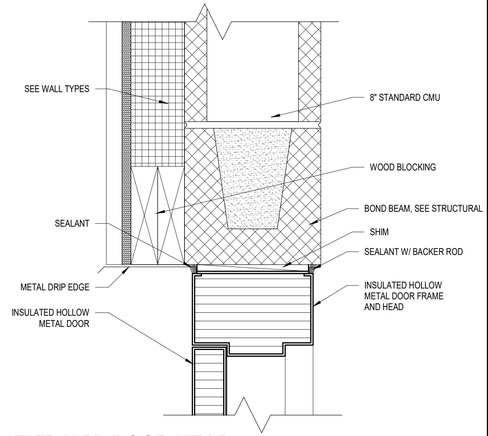

## 6 OHD HEAD
3" = 1'-0"



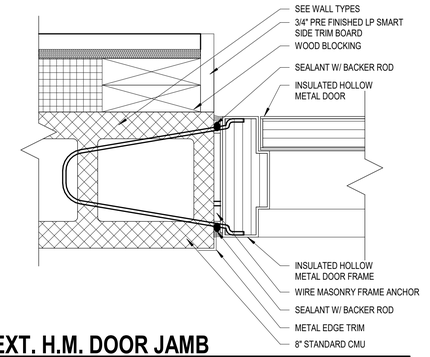

## 5 OHD JAMB
3" = 1'-0"



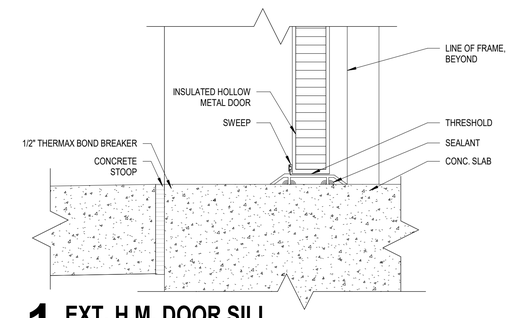

## 4 OHD SILL
3" = 1'-0"




## 3 EXT. H.M. DOOR HEAD
3" = 1'-0"




## 2 EXT. H.M. DOOR JAMB
3" = 1'-0"




## 1 EXT. H.M. DOOR SILL
3" = 1'-0"


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WYOCENA, WI 53969

DOOR DETAILS

REVISIONS:

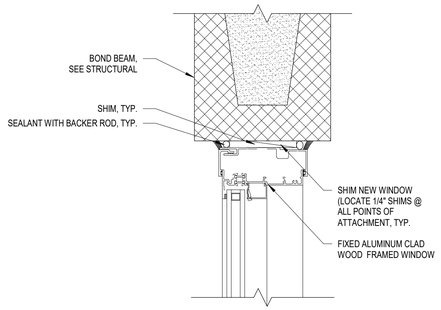
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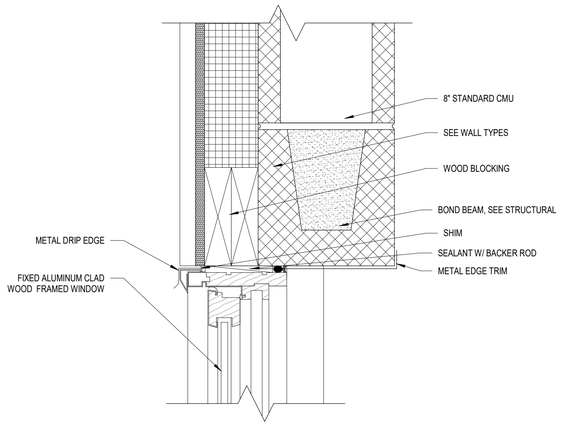
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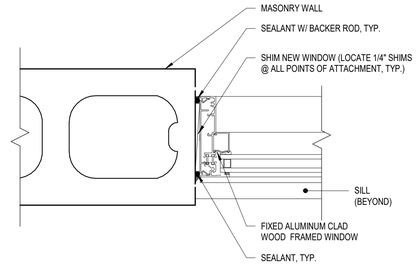

## 6 INT. ALUM. CLAD WOOD WINDOW HEAD

3" = 1'-0"



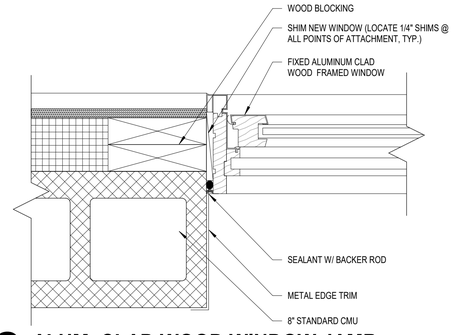

## 3 ALUM. CLAD WOOD WINDOW HEAD

3" = 1'-0"



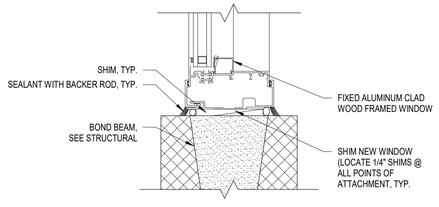

## 5 INT. ALUM. CLAD WOOD WINDOW JAMB

3" = 1'-0"



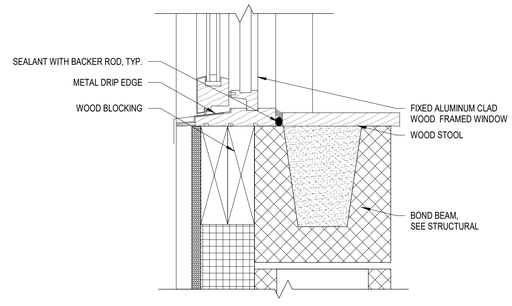

## 2 ALUM. CLAD WOOD WINDOW JAMB

3" = 1'-0"




## 4 INT. ALUM. CLAD WOOD WINDOW SILL

3" = 1'-0"




## 1 ALUM. CLAD WOOD WINDOW SILL

3" = 1'-0"

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WINDOW DETAILS

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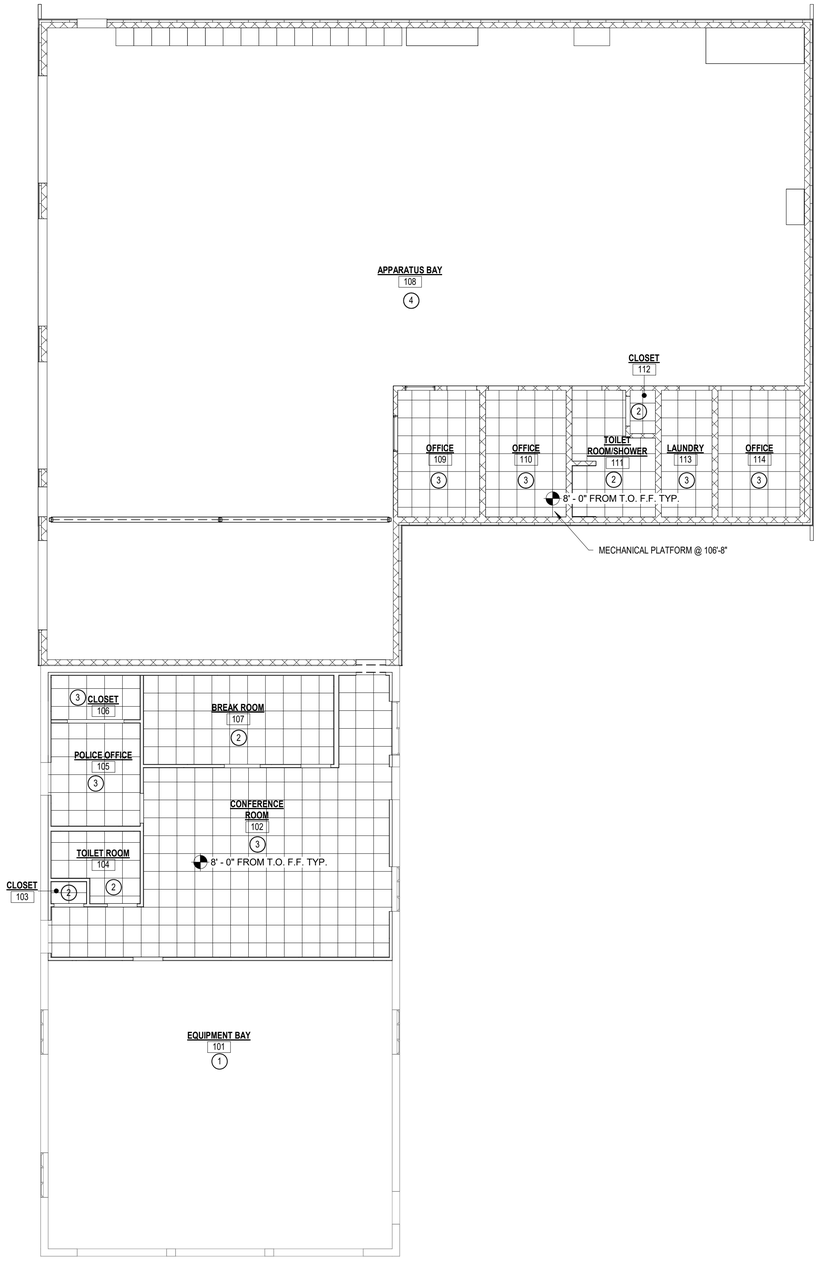
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## GENERAL CEILING PLAN NOTES

A. CEILING HEIGHTS ARE AS INDICATED. EXPOSED STRUCTURE HEIGHTS NOT NOTED.
B. EXPOSED STRUCTURE TO BE PAINTED
C. GPDW @ CEILINGS TO HAVE CONTROL JOINTS @ 20'-0" O.C. MAX., TYP.

## KEYED REFLECTED CEILING PLAN NOTES:

1 METAL LINER PANEL @ UNDERSIDE OF PURLINS
2 2x2 VINYL WRAPPED ACT AND GRID
3 2x2 ACT AND GRID
4 5/8" SAG RESISTANT GYPSUM WALL BOARD @ UNDERSIDE OF TRUSS




## 1 REFLECTED CEILING PLAN

1/8" = 1'-0"

N

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PROPOSED REFLECTED CEILING PLAN

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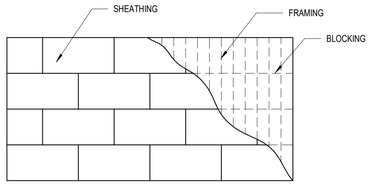
L&P PROJECT # 26057

## WOOD FRAME FASTENING SCHEDULE

| CONNECTION | FASTENING | LOCATION |
|---|---|---|
| JOIST TO SILL OR GIRDER | 3-8d COMMON<br>3-3"x0.131" NAIL<br>3-3" 14 GAGE STAPLE | TOE NAIL |
| BRIDGING TO JOIST | 2-8d COMMON<br>2-3"x0.131" NAIL<br>2-3" 14 GAGE STAPLE | TOE NAIL EACH END |
| 1x6 SUBFLOOR OR LESS TO JOIST | 2-8d COMMON | FACE NAIL |
| WIDER THAN 1X6 SUBFLOOR TO JOIST | 2-8d COMMON | FACE NAIL |
| 2" SUBFLOOR TO JOIST OR GIRDER | 2-16d COMMON | BLIND AND FACE NAIL |
| SOLE PLATE TO JOIST OR BLOCKING | 16d @ 16" C-C<br>3"x0.131" NAIL @ 8" C-C<br>3" 14 GAGE STAPLE @ 12" C-C | TYPICAL FACE NAIL |
| SOLE PLATE TO JOIST OR BLOCKING<br>AT BRACED WALL PANEL | 3-16d @ 16" C-C<br>3"x0.131" NAIL @ 16" C-C<br>3" 14 GAGE STAPLE @ 16" C-C | BRACED WALL PANELS |
| TOP PLATE TO STUD | 2-16d COMMON<br>3-3"x0.131" NAIL<br>3-3" 14 GAGE STAPLE | END NAIL |
| STUD TO SOLE PLATE | 4-8d COMMON<br>4-3"x0.131" NAIL<br>3-3" 14 GAGE STAPLE<br><br>2-16d COMMON<br>3-3"x0.131" NAIL<br>3-3" 14 GAGE STAPLE | TOE NAIL<br><br><br>END NAIL |
| DOUBLE STUDS | 16d @ 24" C-C<br>3"x0.131" NAIL @ 8" C-C<br>3" 14 GAGE STAPLE @ 8" C-C | FACE NAIL |
| DOUBLE TOP PLATES<br>(STAGGER JOINTS 4'-0") | 16d @ 24" C-C<br>3"x0.131" NAIL @ 8" C-C<br>3" 14 GAGE STAPLE @ 8" C-C | TYPICAL FACE NAIL |
| DOUBLE TOP PLATES<br>(STAGGER JOINTS 4'-0") | 8-16d COMMON<br>12-3"x0.131" NAIL<br>12-3" 14 GAGE STAPLE | LAP SPLICE |
| BLOCKING BETWEEN JOISTS OR<br>RAFTERS TO TOP PLATE | 3-8d COMMON<br>3-3"x0.131" NAIL<br>3-3" 14 GAGE STAPLE | TOE NAIL |
| RIM JOIST TO TOP PLATE | 8d @ 6" C-C<br>3"x0.131" NAIL @ 6" C-C<br>3" 14 GAGE STAPLE @ 6" C-C | TOE NAIL |
| TOP PLATES, LAPS AND INTERSECTIONS | 2-16d COMMON<br>3-3"x0.131" NAIL<br>3-3" 14 GAGE STAPLE | FACE NAIL |
| CONTINUOUS HEADER, TWO PIECES | 16d COMMON | 16" C-C ALONG EDGE |
| CEILING JOISTS TO PLATE | 3-8d COMMON<br>5-3"x0.131" NAIL<br>5-3" 14 GAGE STAPLE | TOE NAIL |
| CONTINUOUS HEADER TO STUD | 4-8d COMMON | TOE NAIL |
| CEILING JOISTS, LAPS OVER<br>PARTITIONS | 3-16d COMMON<br>4-3"x0.131" NAIL<br>4-3" 14 GAGE STAPLE | FACE NAIL |
| CEILING JOISTS TO PARALLEL RAFTERS | 3-16d COMMON<br>4-3"x0.131" NAIL<br>4-3" 14 GAGE STAPLE | FACE NAIL |
| RAFTER TO PLATE | 3-8d COMMON<br>3-3"x0.131" NAIL<br>3-3" 14 GAGE STAPLE | TOE NAIL |
| 1" DIAGONAL BRACE TO EACH<br>STUD AND PLATE | 2-8d COMMON<br>2-3"x0.131" NAIL<br>2-3" 14 GAGE STAPLE | FACE NAIL |
| 1x8 SHEATHING TO EACH BEARING WALL | 2-8d COMMON | FACE NAIL |
| WIDER THAN 1x8 SHEATHING<br>TO EACH BEARING WALL | 3-8d COMMON | FACE NAIL |
| BUILT-UP CORNER STUDS | 16d COMMON<br>3"x0.131" NAIL<br>3" 14 GAGE STAPLE | 24" C-C<br>16" C-C<br>16" C-C |
| BUILT-UP GIRDER AND BEAMS | 20d COMMON @ 32" C-C<br>3"x0.131" NAIL AT 24" C-C<br>3" 14 GAGE STAPLE @ 24" C-C<br><br>2-20d COMMON<br>3-3"x0.131" NAIL<br>3-3" 14 GAGE STAPLE | FACE NAIL AT TOP AND BOTTOM<br>STAGGERED ON OPPOSITE SIDES<br><br>FACE NAIL AT END AND AT EACH<br>SPLICE |
| 2" PLANKS | 16d COMMON | AT EACH BEARING |
| COLLAR TIE TO RAFTER | 3-10d COMMON<br>4-3"x0.131" NAIL<br>4-3" 14 GAGE STAPLE | FACE NAIL |
| JACK RAFTER TO HIP | 3-10d COMMON<br>4-3"x0.131" NAIL<br>4-3" 14 GAGE STAPLE<br><br>2-16d COMMON<br>3-3"x0.131" NAIL<br>3-3" 14 GAGE STAPLE | TOE NAIL<br><br><br>FACE NAIL |
| ROOF RAFTER TO 2x RIDGE BEAM | 2-16d COMMON<br>3-3"x0.131" NAIL<br>3-3" 14 GAGE STAPLE<br><br>2-16d COMMON<br>3-3"x0.131" NAIL<br>3-3" 14 GAGE STAPLE | TOE NAIL<br><br><br>FACE NAIL |

## WOOD FRAME FASTENING SCHEDULE

| CONNECTION | FASTENING | LOCATION |
|---|---|---|
| JOIST TO BAND JOIST | 3-16d COMMON<br>5-3"x0.131" NAIL<br>5-3" 14 GAGE STAPLE | FACE NAIL |
| LEDGER STRIP | 3-16d COMMON<br>4-3"x0.131" NAIL<br>4-3" 14 GAGE STAPLE | FACE NAIL |
| WOOD STRUCTURAL PANELS AND<br>PARTICLEBOARD: SUBFLOOR, ROOF<br>AND WALL SHEATHING TO FRAMING | 1/2" AND LESS<br><br>19/32" TO 3/4"<br><br>7/8" TO 1"<br><br>1 1/8" TO 1 1/4" | 6d<br>2.375"x0.113" NAIL<br>1.75" 16 GAGE STAPLE<br><br>8d OR 6d<br>2.375"x0.113" NAIL<br>2" 16 GAGE STAPLE<br>8d<br><br>10d OR 8d |
| SINGLE FLOOR (COMBINATION<br>SUBFLOOR-UNDERLAYMENT<br>TO FRAMING) | 3/4" OR LESS<br><br>7/8" TO 1"<br><br>1 1/8" TO 1 1/4" | 6d<br><br>8d<br><br>10d OR 8d |
| PANEL SIDING TO FRAMING | 1/2" OR LESS<br>5/8" | 6d<br>8d |
| FIBERBOARD SHEATHING | 1/2"<br><br>25/32" | #11 GAGE ROOFING NAIL<br>6d COMMON NAIL<br># 16 GAGE STAPLE<br><br>#11 GAGE ROOFING NAIL<br>8d COMMON NAIL<br># 16 GAGE STAPLE |
| INTERIOR PANELING | 1/4"<br>3/8" | 4d<br>6d |




**SHEATHING ORIENTATION**

## DESIGN AND LOAD DATA

DESIGN SPECIFICATIONS
- WISCONSIN ENROLLED COMMERCIAL BUILDING CODE
- CURRENT EDITION WITH SUBSEQUENT REVISIONS

## DESIGN LOAD INFORMATION

DEAD LOADS
- ROOF DEAD LOAD - 15 PSF
- MECHANICAL PLATFORM - 113 PSF
- STAIRWAY AND LANDING - 15 PSF

LIVE LOADS
- ROOF LIVE LOAD - 20 PSF
- MECHANICAL PLATFORM - 60 PSF
- STAIRWAY AND LANDING - 100 PSF

SNOW LOAD (COLUMBIA COUNTY)
- GROUND SNOW LOAD - 30 PSF
- THERMAL FACTOR - 1.1
- EXPOSURE FACTOR - 1.0
- IMPORTANCE FACTOR - 1.2
- ROOF SNOW LOAD - 28 PSF

UNBALANCED SNOW LOAD
- Su = 36 PSF

WIND LOAD
- BASIC WIND SPEED - 120 MPH
- IMPORTANCE CATEGORY - IV
- EXPOSURE CATEGORY - B
- BUILDING CATEGORY - ENCLOSED
- USE ASCE 7-16 SIMPLIFIED LOADS

SEISMIC LOADS
- SEISMIC DESIGN CATEGORY A

## SOIL DESIGN INFORMATION

SOIL DATA
- ALLOWABLE BEARING CAPACITY - 1500 PSF
- (PER CGC, INC. SOILS REPORT C26232)

GENERAL CONTRACTOR TO RETAIN CGC, INC. TO VERIFY SOIL CONDITIONS AS CONSTRUCTION PROGRESSES. REMEDIATE ALL SOILS PER REPORT, OR PER CGC, INC. RECOMMENDATIONS. REF. SPEC SECTION 00 31 32

## MATERIAL REQUIREMENTS

ROOF SHEATHING - 5/8" 40/20 SPAN RATED SHEATHING
WALL SHEATHING - 1/2" SHEATHING

ROOF SHEATHING FASTENERS
- UNBLOCKED W/ 8d RING SHANK NAILS @ 6" C-C

MASONRY f'm = 2500 PSI MINIMUM
- BLOCK $F_{CMU}$ = 3250 PSI OR GREATER
- GROUT $F_G$ = 2500 PSI OR GREATER
- TYPE S MORTAR
- GRADE 60 REBAR

## SPECIAL INSPECTIONS

REBAR 1705.3(1)
CONCRETE 1705.3(6)
STRUCTURAL STEEL 1705.2.1(4B)
MASONRY 1705.4

## GENERAL NOTES

1. THE CONTRACTOR SHALL CONDUCT ALL OPERATIONS IN STRICT ACCORDANCE WITH SAFETY REQUIREMENTS IMPOSED BY THE OWNER AND OSHA. THE CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE OWNER'S PROPERTY AND DISPOSE OF ACCORDING TO LOCAL REGULATIONS.
2. THIS STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER IT IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCES; AND TO INSURE THE STABILITY OF THE STRUCTURE AND ITS COMPONENT PARTS, AND THE ADEQUACY OF TEMPORARY OR INCOMPLETE CONNECTIONS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS, OR TIE-DOWNS THAT MIGHT BE NECESSARY. SUCH MATERIAL IS NOT SHOWN ON THE DRAWINGS. IF APPLIED, THEY SHALL BE REMOVED AS CONDITIONS PERMIT, AND SHALL REMAIN THE CONTRACTORS PROPERTY.
3. SAFETY: IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS GOVERNING THIS WORK.
4. ENGINEERING DRAWINGS: ALL DEVIATIONS FROM THE ENGINEERING DRAWINGS SHALL BE SUBMITTED IN WRITTEN FORM TO THE OWNER OR THEIR REPRESENTATIVE FOR APPROVAL.
5. EXISTING UTILITIES AND ALL OTHER OBSTRUCTIONS TO WORK SHALL BE TEMPORARILY REMOVED BY THE CONTRACTOR AND REINSTALLED (INCLUDING NECESSARY MODIFICATIONS) BY THE CONTRACTOR AFTER COMPLETION OF WORK.
6. SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER OR THEIR REPRESENTATIVE BEFORE SHOP WORK IS PERMITTED TO COMMENCE. ALL DEVIATIONS FROM THE ENGINEERING DRAWINGS SHALL BE CIRCLED AND NOTED ON THE SHOP DRAWINGS.
7. DIMENSIONS PERTAINING TO EXISTING CONDITIONS MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO ANY FABRICATION, CONSTRUCTION, OR ERECTION.
8. EXCAVATION SHALL PROCEED WITH CARE TO AVOID DAMAGE TO UNKNOWN UNDERGROUND SERVICES.
9. BACKFILL SHALL BE GRANULAR MATERIAL, FREE FROM CLAY, LOAM, OR PERISHABLE MATERIALS. THE APPROVED GRANULAR FILL MATERIAL SHALL BE COMPACTED TO A DENSITY EQUIVALENT TO 95% MODIFIED PROCTOR.

## FOUNDATIONS

1. FOUNDATIONS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED FILL.

## STRUCTURAL STEEL

1. THE FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS", AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", WITH THE FOLLOWING SUPPLEMENTAL REQUIREMENTS.
2. ROLLED WIDE FLAGE SHAPES SHALL CONFORM TO ASTM A992 WITH A MINIMUM YEILD STRESS (Fy) OF 50,000 PSI. ROLLED SHAPES, PLATES, AND BARS SHALL CONFORM TO ASTM A36 WITH A MINIMUM YEILD STRESS (Fy) OF 36,000 PSI. CIRCULAR PIPE SHALL CONFORM TO ASTM A53, GRADE B, WITH A MINIMUM YIELD STRSS (Fy) OF 35,000 PSI. SQUARE AND RECTANGULAR TUBING SHALL CONFORM TO ASTM A500, GRADE B, WITH A MINIMUM YEILD STRESS (Fy) OF 46,000 PSI.
3. SPLICING OF STRUCTURAL STEEL IS PROHIBITED EXCEPT AS DETAILED.
4. STRUCTURAL STEEL SHALL BE NEW UNLESS OTHERWISE NOTED, AND SHALL BE PAINTED WITH ONE COAT OF APPROVED PRIMER AND APPROVED FINISH COAT AS DIRECTED BY THE OWNER.
5. BOLTS SHALL CONFORM TO ASTM A325X WITH ASTM A563 NUTS. BOLTS SHALL BE TIGHTENED BY THE TURN-OF-THE-NUT METHOD, AND SHALL HAVE A HARDENED STEEL WASHER, ASTM F436, UNDER THE TURNED ELEMENT.
6. WELDING SHALL CONFORM TO THE CURRENT AWS D1.1 "STRUCTURAL WELDING CODE-STEEL". WELDING ELECTRODES SHALL BE E70XX.
7. WELDS SHALL BE MADE ONLY BE CERTIFIED WELDERS AND WELDING OPERATORS WHO HAVE BEEN PREVIOUSLY QUALIFIED BY TESTS AS PRESCRIBED IN THE CURRENT AWS D1:1 "STRUCTURAL WELDING CODE-STEEL". PROOF OF CERTIFICATION SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL BEFORE ANY WELDING IS PERMITTED TO BEGIN.
8. WELDING OF STAINLESS STEEL TO BE PERFORMED USING STAINLESS RODS AND WELDING PROCEDURES.
9. ANCHOR BOLTS FOR COLUMNS SHALL CONFORM TO ASTM A307. ANCHOR BOLTS FOR MACHINES SHALL CONFORM TO ASTM A325. ALL ANCHOR BOLTS SHALL BE SET BY TEMPLATE METHOD, OR AN APPROVED EQUIVALENT METHOD.

## CONCRETE

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", WITH THE FOLLOWING SUPPLEMENTAL REQUIREMENTS:

1. ALL CONCRETE TO BE NORMAL WEIGHT, WITH AGGREGATES CONFORMING TO ASTM C33.
2. CONCRETE SHALL DEVELOP THE FOLLOWING 28-DAY COMPRESSIVE STRENGTH (F'c):
   - FLOOR SLABS - 4000 PSI
   - FOUNDATIONS - 4000 PSI
3. CHLORIDE BASED ADMIXTURES ARE PROHIBITED IN ALL REINFORCED CONCRETE. OTHER ADMIXTURES SHALL CONFORM TO ASTM C494.
4. REINFORCING STEEL SHALL BE DEFORMED AND CONFORM TO A615, A616, OR A617, GRADE 60, WITH MINIMUM YIELD STRESS (FY) OF 60,000 PSI. THE MINIMUM LAP FOR SPLICES SHALL BE 3'-6".
5. CONCRETE COVER ON ALL REINFORCING SHALL BE 3" UNLESS OTHERWISE NOTED.
6. MAXIMUM SLUMP SHALL BE 4"±1" AS DETERMINED IN ACCORDANCE WITH ASTM C143.
7. CONCRETE FINISH:
   - FLOOR SLABS - HARD TROWELED FINISH
   - PAVING SLABS - FLOAT/BROOM FINISH
8. ALL CONCRETE EXPOSED TO THE EXTERIOR SHALL BE AIR ENTRAINED WITH AN AIR CONTENT OF 6%±.
9. CONTRACTOR TO ENGAGE A QUALIFIED TESTING AND INSPECTING AGENCY TO PERFORM FIELD TESTS AND INSPECTIONS AND PREPARE TEST REPORTS. TESTING AGENCY TO CONFIRM THAT NOTED MATERIAL REQUIREMENTS ARE MET.
10. FOR SLABS EXPOSED TO HARD-WHEELED TRAFFIC, GC TO FILL ALL CONTROL JOINTS W/ SEMI-RIGID EPOXY OR POLYUREA, TYP.


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WYOCENA FIRE DEPARTMENT ADDITION
284 S COLUMBUS STREET
WYOCENA, WI 53969

STRUCTURAL DESIGN NOTES

REVISIONS:

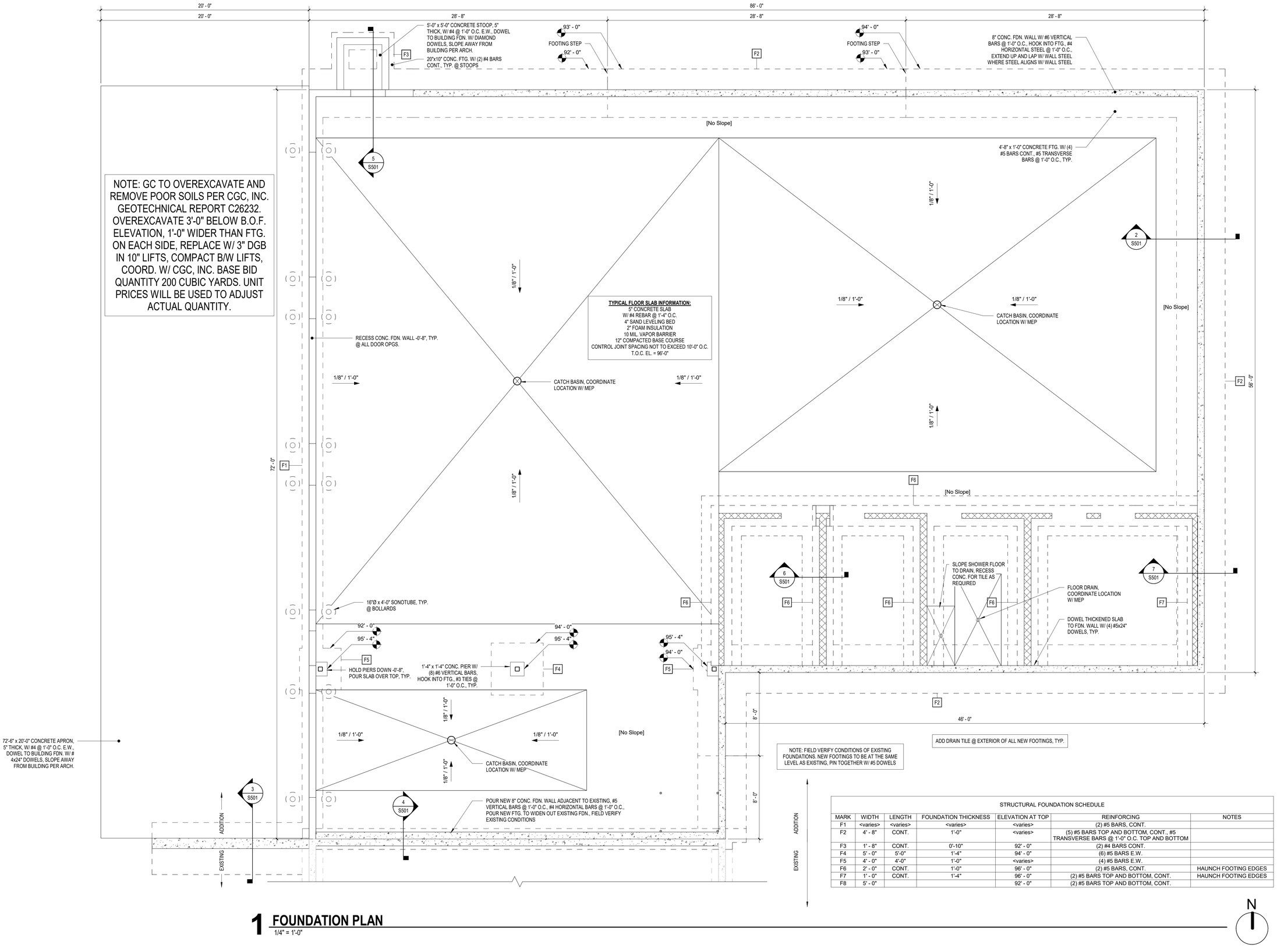
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NOTE: GC TO OVEREXCAVATE AND REMOVE POOR SOILS PER CGC, INC. GEOTECHNICAL REPORT C26232. OVEREXCAVATE 3'-0" BELOW B.O.F. ELEVATION, 1'-0" WIDER THAN FTG. ON EACH SIDE, REPLACE W/ 3" DGB IN 10" LIFTS, COMPACT B/W LIFTS, COORD. W/ CGC, INC. BASE BID QUANTITY 200 CUBIC YARDS. UNIT PRICES WILL BE USED TO ADJUST ACTUAL QUANTITY.

NOTE: FIELD VERIFY CONDITIONS OF EXISTING FOUNDATIONS. NEW FOOTINGS TO BE AT THE SAME LEVEL AS EXISTING, PIN TOGETHER W/ #5 DOWELS

ADD DRAIN TILE @ EXTERIOR OF ALL NEW FOOTINGS, TYP.

STRUCTURAL FOUNDATION SCHEDULE

| MARK | WIDTH | LENGTH | FOUNDATION THICKNESS | ELEVATION AT TOP | REINFORCING | NOTES |
|---|---|---|---|---|---|---|
| F1 | <varies> | <varies> | <varies> | <varies> | (2) #5 BARS, CONT. | |
| F2 | 4' - 8" | CONT. | 1'-0" | <varies> | (5) #5 BARS TOP AND BOTTOM, CONT., #5 TRANSVERSE BARS @ 1'-0" O.C. TOP AND BOTTOM | |
| F3 | 1' - 8" | CONT. | 0'-10" | 92' - 0" | (2) #4 BARS CONT. | |
| F4 | 5' - 0" | 5'-0" | 1'-4" | 94' - 0" | (6) #5 BARS E.W. | |
| F5 | 4' - 0" | 4'-0" | 1'-0" | <varies> | (4) #5 BARS E.W. | |
| F6 | 2' - 0" | CONT. | 1'-0" | 96' - 0" | (2) #5 BARS, CONT. | HAUNCH FOOTING EDGES |
| F7 | 1' - 0" | CONT. | 1'-4" | 96' - 0" | (2) #5 BARS TOP AND BOTTOM, CONT. | HAUNCH FOOTING EDGES |
| F8 | 5' - 0" | | | 92' - 0" | (2) #5 BARS TOP AND BOTTOM, CONT. | |

## 1 FOUNDATION PLAN

1/4" = 1'-0"


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WYOCENA, WI 53969

FOUNDATION PLAN

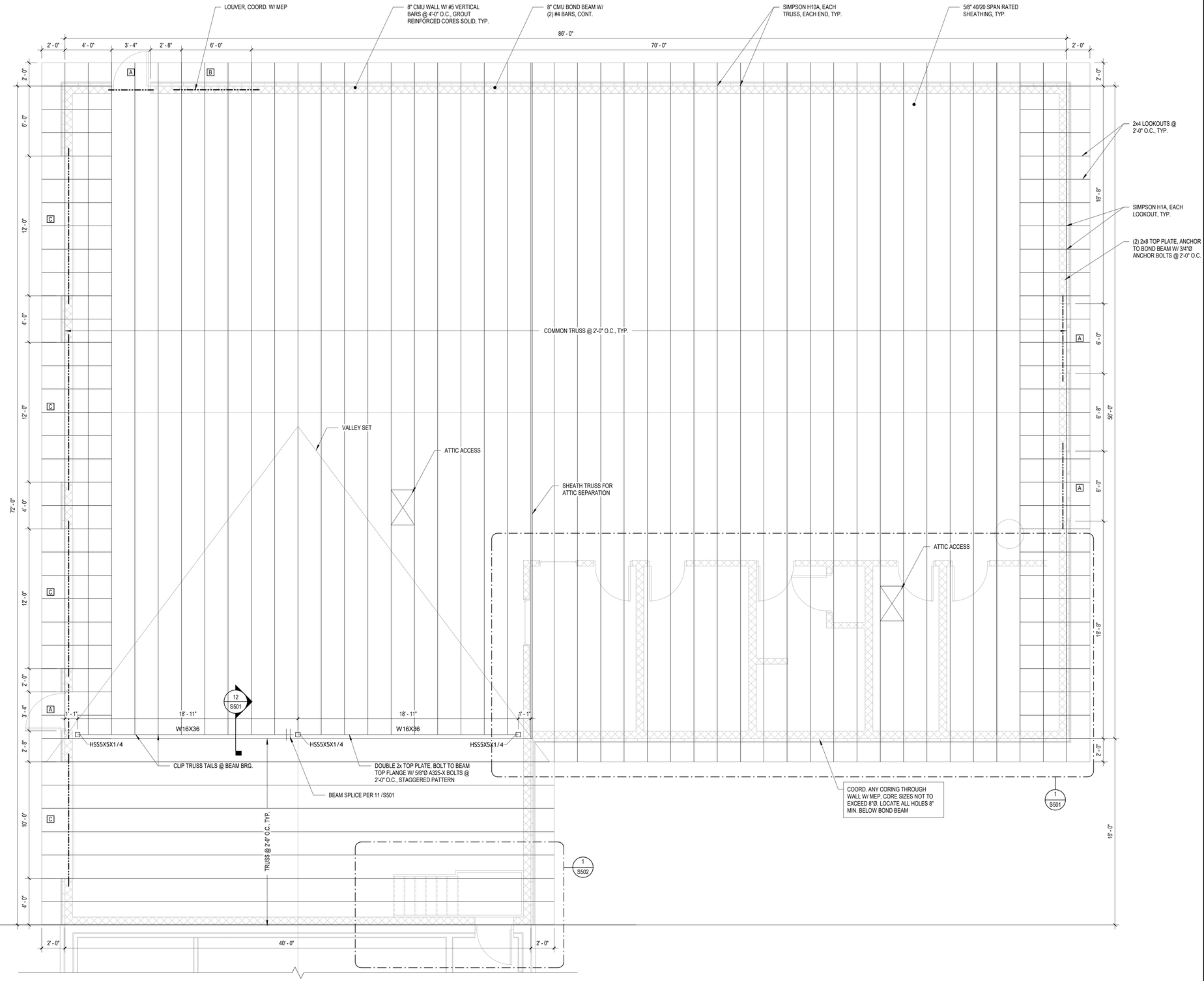
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| LINTEL SCHEDULE | |
|---|---|
| A | 8" x 16" CMU BOND BEAM W/ (2) #4 BARS TOP AND BOTTOM, 16" BRG. EACH END, GROUT SOLID BELOW BRG. |
| B | 8" x 16" CMU BOND BEAM W/ (2) #4 BARS TOP AND BOTTOM, #4 STIRRUPS @ 16" O.C., 16" BRG. EACH END, GROUT SOLID BELOW BRG. |
| C | 8" x 24" CMU BOND BEAM W/ (2) #4 BARS TOP AND BOTTOM, 16" BRG. EACH END, GROUT SOLID BELOW BRG. |
| D | 6" x 16" CMU BOND BEAM W/ (1) #4 BAR TOP AND BOTTOM, 16" BRG. EACH END, GROUT SOLID BELOW BRG. |
| E | 6" x 16" CMU BOND BEAM W/ (1) #4 BAR TOP AND BOTTOM, 8" BRG. EACH END, GROUT SOLID BELOW BRG. |

NOTES:
- ALL OPENINGS IN CMU WALL TO INCLUDE #5 JAMB STEEL IN ADJACENT CORE, GROUT SOLID. EXTEND BAR 24" ABOVE OPENING HEAD AND 24" BELOW OPENING SILL, TYP. U.N.O.
- ALL WINDOW OR LOUVER OPENINGS IN CMU WALL TO INCLUDE #5 SILL STEEL AT BOTTOM OF OPENING, EXTEND 24" BEYOND EDGES OF OPENING, TYP.

## 1 ADDITION ROOF FRAMING PLAN

1/4" = 1'-0"

N


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WYOCENA FIRE DEPARTMENT ADDITION
284 S COLUMBUS STREET
WYOCENA, WI 53969

ADDITION ROOF FRAMING PLAN

REVISIONS:

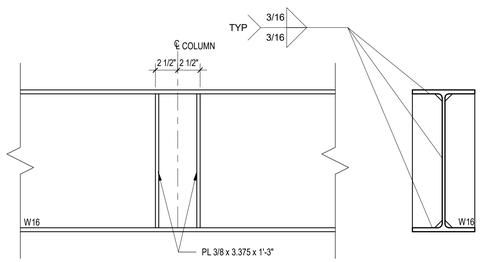
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ISSUE DATE:
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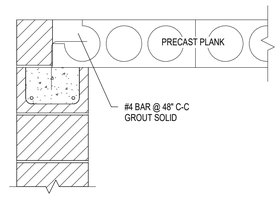
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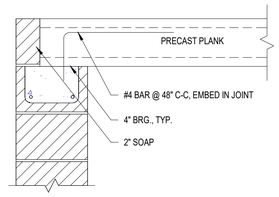
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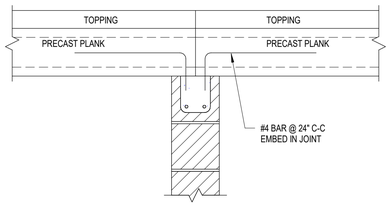

## 16 W16 STIFFENER DETAIL
1 1/2" = 1'-0"



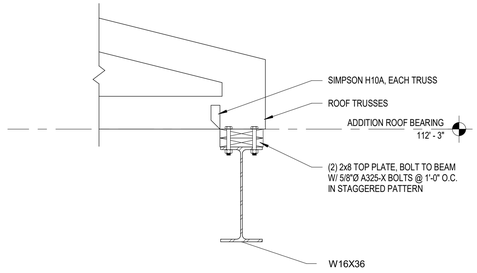

## 15 PRECAST EDGE CONDITION
1" = 1'-0"



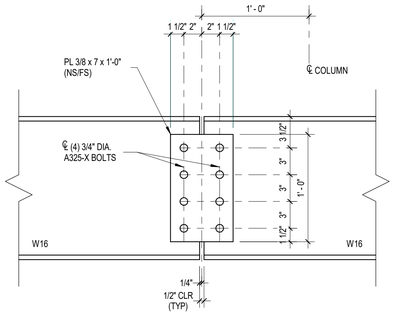

## 14 PRECAST END BEARING
1" = 1'-0"



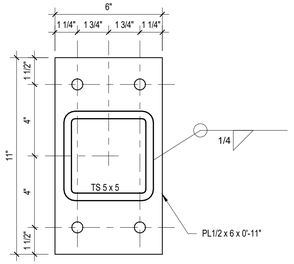

## 13 PRECAST PLANK BEARING
1" = 1'-0"



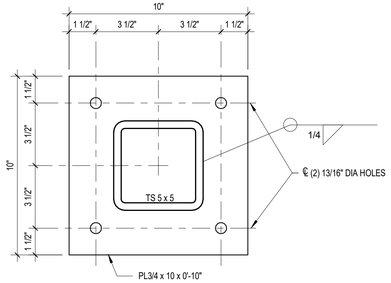

## 12 SECTION THROUGH BEAM
1" = 1'-0"



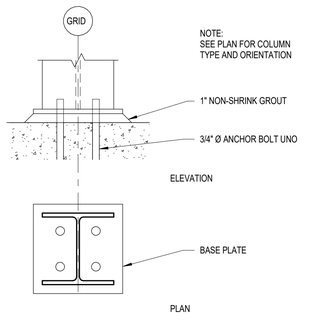

## 11 W16 TO W16 SPLICE
1 1/2" = 1'-0"



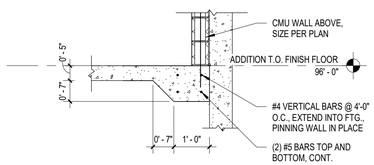

## 10 HSS5x5 CAP PLATE
3" = 1'-0"



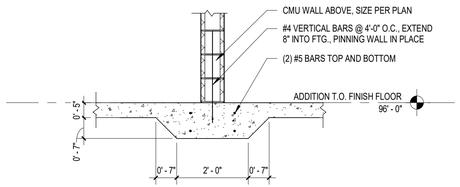

## 9 HSS5x5 BASE PLATE
3" = 1'-0"



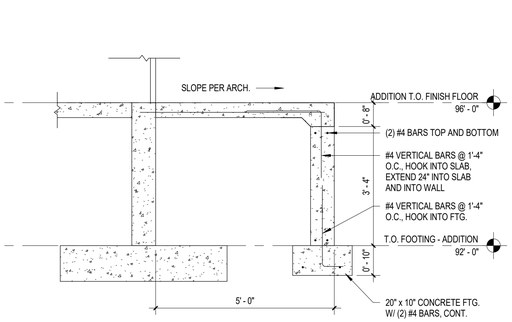

## 8 BASE PLATE GROUT
1 1/2" = 1'-0"




## 7 SLAB EDGE AT MEZZANINE
1/2" = 1'-0"



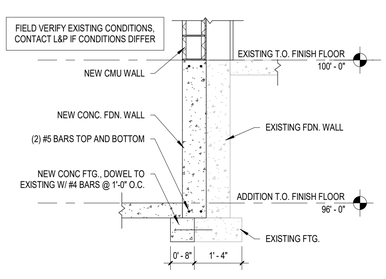

## 6 THICKENED SLAB
1/2" = 1'-0"



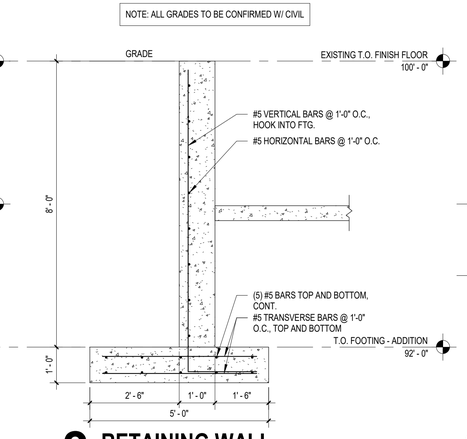

## 5 TYPICAL STOOP
1/2" = 1'-0"

| LINTEL SCHEDULE | |
|---|---|
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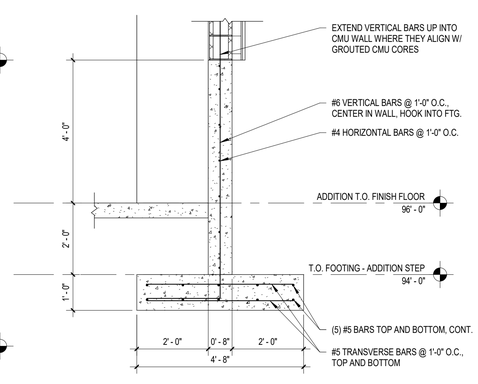
NOTES:
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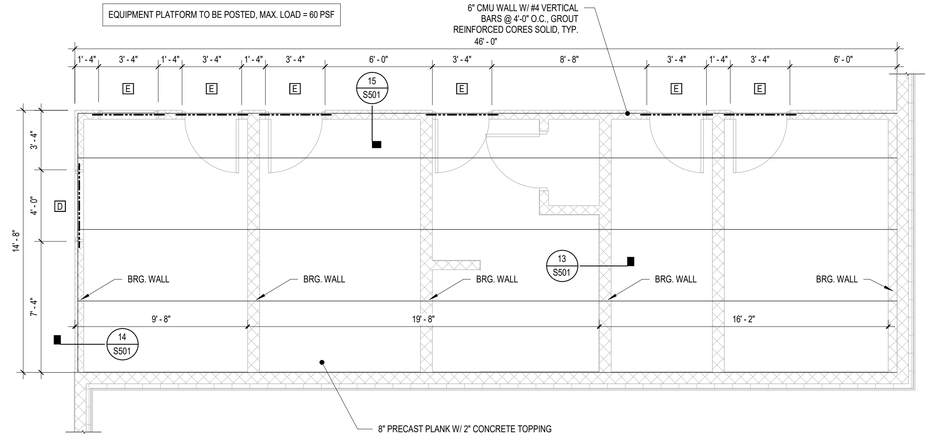

## 4 NEW-EXISTING FOUNDATION
1/2" = 1'-0"




## 3 RETAINING WALL
1/2" = 1'-0"




## 2 TYP. FOUNDATION WALL
1/2" = 1'-0"




## 1 MECHANICAL PLATFORM
1/4" = 1'-0"


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ADDITION
284 S COLUMBUS STREET
WYOCENA, WI 53969

ENLARGED FRAMING
PLANS, STRUCTURAL
DETAILS

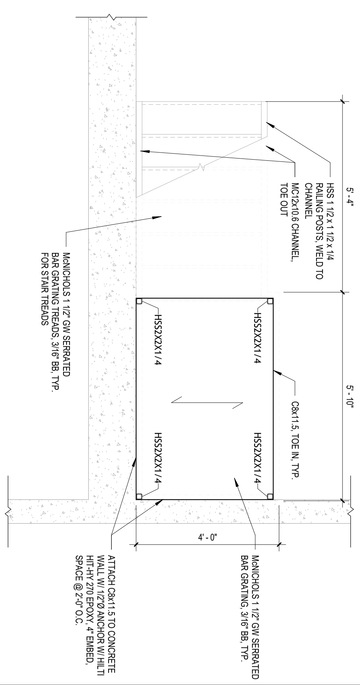
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**1** **STAIRWAY FRAMING PLAN**
1/2" = 1'-0"

| | | | |
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| L&P PROJECT # 26057 | S502 | ISSUE DATE: AUGUST 12, 2026 | REVISIONS: NO. DATE |

STRUCTURAL DETAILS

WYOCENA FIRE DEPARTMENT ADDITION

284 S COLUMBUS STREET
WYOCENA, WI 53969

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ARCHITECTS L&P ENGINEERS

# PLUMBING (PLBG) LEGEND

## GENERAL SYMBOLS

| | |
|---|---|
| 100.0' | DEMOLITION KEYNOTES |
| 1 | DEMOLITION KEYNOTES |
| 1 | NEW OR REMODEL KEYNOTES |
| 1 | NEW OR REMODEL KEYNOTES |
| 1 | NEW OR REMODEL KEYNOTES |
| | FLOOR DRAIN |
| | HOSE BIBB OR WALL HYDRANT |
| | PLUMBING FIXTURE/EQUIPMENT (NEW) |
| | PLUMBING FIXTURE/EQUIPMENT (DEMO) |
| | PLUMBING FIXTURE/EQUIPMENT (EXISTING) |
| Room name 101 | INDICATES ROOM NAME<br>INDICATES ROOM NUMBER |
| # M # | SECTION CUT |
| | CALLOUT BUBBLE |
| # M # | CALLOUT REFERENCE DETAIL NUMBER<br>CALLOUT REFERENCE SHEET NUMBER |
| 1 | REVISION NUMBER |
| | REVISION CLOUD |
| AA | MATCH PIPE BREAK |
| SEE SHEET P... FOR CONTINUATION | CONTINUATION OF PIPE BREAK |

## PIPING SYMBOLS ABBREVIATIONS

| | |
|---|---|
| | BALANCING VALVE |
| | BALL VALVE |
| | BUTTERFLY VALVE |
| | CHECK VALVE |
| | DOMESTIC WATER CIRCULATING PUMP |
| | GATE VALVE |
| | INDICATES DIRECTION OF WATER FLOW |
| E | PIPE CAP |
| | PIPE ELEVATION UP OR DOWN |
| | PIPE RISER UP |
| | PIPE TEE - BOTTOM CONNECTION |
| | PIPE TEE - TOP CONNECTION |
| | PIPE UNION |
| 1" | PIPE SIZE |
| | POINT OF CONNECTION/RECONNECTION |
| | POINT OF DISCONNECTION FOR DEMOLITION |
| | PRESSURE GAUGE |
| | REDUCE PRESSURE BACKFLOW PREVENTER |
| | STRAINER |
| | THERMOMETER |
| | WATER HAMMER ARRESTOR |
| | WATER METER |

## PIPING SYSTEM ABBREVIATIONS

| | |
|---|---|
| A | COMPRESSED AIR (A.) |
| CD | CONDENSATE DRAIN (C.D.) |
| | COLD WATER (C.W.) |
| G | GAS (NATURAL, PROPANE) (G.) |
| | HOT WATER (H.W.) |
| | HOT WATER RETURN (H.W.R.) |
| NP | NON-POTABLE WATER (N.P.) |
| SS | SANITARY SEWER, SANITARY WASTE (W.) |
| | VENT (V.) |
| C.I. | CAST IRON PIPING |
| C.V. | CIRCUIT VENT |
| D.I. | DUCTILE IRON |
| R.V. | RELIEF VENT |
| W | WASTE (SANITARY) |
| V. | VENT (SANITARY) |
| V.T.R. | VENT THRU ROOF |

## FIXTURES ABBREVIATIONS

| | |
|---|---|
| A.C.W. | AUTOMATIC CLOTHES WASHER |
| L. | LAVATORY SINK |
| L.T. | LAUNDRY TRAY |
| S. | SINK |
| SH. | SHOWER |
| U. | URINAL |
| W.C. | WATER CLOSET |

## EQUIPMENT ABBREVIATIONS

| | |
|---|---|
| A.C. | AIR COMPRESSOR |
| A.H.R. | AIR HOSE REEL |
| B.F.P. | BACKFLOW PREVENTER |
| C.O. | CLEAN OUT |
| D.W.C.P. | DOMESTIDC WATER CIRCULATING PUMP |
| E.T. | EXPANSION TANK |
| F.C.O. | FLOOR CLEAN OUT |
| G.C.B. | GARAGE CATCH BASIN |
| G.W.H. | GAS WATER HEATER |
| H.B. | HOSE BIBB |
| L.I. | LINT INTERCEPTOR |
| O.S. | OPEN SITE DRAIN (HUB DRAIN) |
| P.G. | PRESSURE GAUGE |
| R.P.B.P. | REDUCE PRESSURE BACKFLOW PREVENTER |
| T.P.V. | TEMPERATURE/PRESSURE RELIEF VALVE |
| W.H.A. | WATER HAMMER ARRESTOR |
| WTR. MTR. | WATER METER |

## GENERAL ABBREVIATIONS

| | |
|---|---|
| A.B. | AIR BREAK |
| A.F.C. | ABOVE FINISH CEILING |
| A.F.F. | ABOVE FINISH FLOOR |
| A.F.G. | ABOVE FINISH GRADE |
| A.F.R. | ABOVE FINISHED ROOF |
| A.G. | AIR GAP |
| A.P. | ACCESS PANEL |
| AVG. | AVERAGE |
| B.F.F. | BELOW FINISH FLOOR |
| B.F.G. | BELOW FINISH GRADE |
| B.T.U. | BRITISH THERMAL UNIT |
| B.T.U.H. | BRITISH THERMAL UNIT PER HOUR |
| CL | CENTERLINE |
| CLG. | CEILING |
| C.O. | CLEAN OUT |
| CONT. | CONTINUE |
| CU. FT. | CUBIC FEET |
| CU. IN. | CUBIC INCHES |
| ° | DEGREE |
| D.D.C. | DIRECT DIGITAL CONTROLS |
| D.F.U. | DRAINAGE FIXTURE UNITS |
| DIA. or Ø | DIAMETER |
| DN. | DOWN |
| DWG. | DRAWING |
| ELEC. | ELECTRICAL |
| EXIST. | EXISTING |
| ° F | DEGREES FAHRENHEIT |
| FIN. FL. | FINISH FLOOR |
| FL. | FLOOR |
| F.P.M. | FEET PER MINUTE |
| F.P.S. | FEET PER SECOND |
| ft. | FEET |
| GAL. | GALLONS |
| G.P.H. | GALLONS PER HOUR |
| G.P.M. | GALLONS PER MINUTE |
| HD. | HEAD (FEET) |
| I.E. | INVERT ELEVATION |
| H.P. | HORSESPOWER |
| HTG. | HEATING |
| H.V.A.C. | HEATING, VENTILATION AND AIR CONDITIONING |
| I.D. | INSIDE DIAMETER |
| IN. | INCH OR INCHES |
| k.w. | KILOWATT |
| lbs. | POUNDS |
| L.W.T. | LEAVING WATER TEMPERATURE |
| MAX. | MAXIMUM |
| M.B.H. | THOUSAND B.T.U.H. |
| MECH. | MECHANICAL |
| MFG. | MANUFACTURER |
| MIN. | MINIMUM |
| MTD. | MOUNTED |
| N.I.C. | NOT IN CONTRACT |
| N.P.S. | NOMINAL PIPE SIZE |
| N.T.S. | NOT TO SCALE |
| O.C. | ON CENTER |
| O.D. | OUTSIDE DIAMETER |
| psi | POUNDS PER SQUARE INCH |
| psig | POUNDS PER SQUARE INCH GAUGE |
| RM. | ROOM |
| R.P.M. | REVOLUTIONS PER MINUTE |
| sq. ft. | SQUARE FEET |
| S.P. | STATIC PRESSURE |
| SPEC. | SPECIFICATION |
| STD. | STANDARD |
| TEMP. | TEMPERATURE |
| TSTAT | THERMOSTAT |
| TYP. | TYPICAL |
| V. | VOLTS |
| w.c. | WATER COLUMN (GAS) |
| W.S.F.U. | WATER SUPPLY FIXTURE UNITS |
| w/ | WITH |

## MECHANICAL EQUIPMENT ABBREVIATIONS

| | |
|---|---|
| DHP | DUCTED HEAT PUMP (BY M.C.) |
| M.A.U. | MAKE UP AIR UNIT (BY M.C.) |
| U.H. | UNIT HEATER (BY M.C.) |

## CODE ABBREVIATIONS

| | |
|---|---|
| D.S.P.S. | DEPT. SAFETY PROFESSIONAL SERVICES |
| I.E.C.C. | INTERNATIONAL ENERGY CONSERVATION CODE |
| I.F.G.C. | INTERNATIONAL FUEL GAS CODE |
| N.F.P.A. | NATIONAL FIRE PROTECTION ASSOCIATION |
| N.F.P.A. 54 | NATIONAL FUEL GAS CODE |

# GENERAL PLUMBING NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH NATIONAL, STATE, & LOCAL CODES; AS WELL AS THE NATIONALLY RECOGNIZED TESTING AND APPROVAL AGENCIES.
2. PLUMBING, MECHANICAL, AND ELECTRICAL CONTRACTORS SHALL COORDINATE WITH ONE ANOTHER ALONG WITH OTHER TRADES BEFORE BEGINNING ANY INSTALLATION AND CONTINUING THROUGHOUT PROJECT.
3. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
4. PLUMBING CONTRACTOR SHALL FIELD VERIFY DIMENSIONS, WALL HEIGHTS, DOOR SWINGS, WINDOW LOCATIONS, AND ANY OTHER INFORMATION CRITICAL TO THE PLACEMENT OF PIPING AND EQUIPMENT. COORDINATE ANY POSSIBLE CONFLICTS WITH GENERAL CONTRACTOR OR PROJECT MANAGER BEFORE PERFORMING ANY WORK.
5. PLUMBING CONTRACTOR IS RESPONSIBLE TO FOLLOW/INSTALL AS PER COMMENTS/CORRECTIONS MADE ON THE DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICE'S CONDITIONALLY APPROVED PLUMBING PLANS.
6. PROVIDE OWNER TRAINING AND OPERATION AND MAINTENANCE MANUALS FOR THE FURNISHED EQUIPMENT PRIOR TO COMPLETION OF WORK.
7. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, EQUIPMENT SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY VERIFY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
8. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES WITH ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OF EQUIPMENT ORDERS.
9. VERIFY ALL SANITARY INVERT ELEVATIONS BEFORE PERFORMING ANY WORK, AND COORDINATE INVERTS AT ALL FOOTINGS AND FOUNDATION WALLS WITH GENERAL CONTRACTOR.
10. COORDINATE WATER METER SIZES WITH CITY UTILITIES EARLY IN PROJECT TO ENSURE CITY HAS WATER METER AT TIME OF INSTALLATION. COORDINATE WATER METER LOCATION AND INSTALLATION TIME FRAME WITH CITY UTILITIES. INSTALL PRESSURE REDUCING VALVE, PRESSURE GAUGE, ETC. IN ACCORDANCE WITH CITY UTILITIES REQUIREMENTS.
11. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY BETWEEN DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, ETC.
12. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
13. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
14. MAINTAIN WORKING CLEARANCES AT ELECTRICAL EQUIPMENT SUCH AS ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES AND DISCONNECTS PER N.E.C. REQUIREMENTS.
15. CONTRACTOR IS RESPONSIBLE FOR ALL COST ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
16. MAINTAIN A MINIMUM OF 10' BETWEEN ROOF EDGE AND ALL ROOFTOP GAS PIPING AND VENT THRU ROOF, INCLUDING WATER HEATER INTAKE AND EXHAUST VENT PIPING.
17. ALL EQUIPMENT, AND PIPING SHALL BE KEPT CLEAN FROM DIRT & DEBRIS. DO NOT ALLOW THE INSIDE OF PLUMBING PIPING TO BE EXPOSED DURING CONSTRUCTION.
18. FOR ALL FIRE RATED PENETRATIONS, ONLY USE U.L. LISTED, TESTED, AND APPROVED MATERIALS AND METHODS THAT MEET DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES APPROVAL. COORDINATE WITH ARCHITECTURAL PLANS AND GENERAL CONTRACTOR ON LOCATION AND RATING OF ALL FIRE RATED WALLS, CEILINGS, FLOORS, ETC. USE FIRE RATED MATERIALS AND METHODS THAT MEET DEPARTMENT OF COMMERCE APPROVAL.
19. SANITARY VENT THRU ROOF LOCATED ON A METAL PITCH ROOF SHALL BE LOCATED AT A MAXIMUM 5'-0" FROM THE ROOF PEAK.
20. REFER TO ARCHITECTURAL ELEVATION PLAN FOR ALL LAVATORY, WATER COOLER, ETC. MOUNTING HEIGHTS.
21. COORDINATE ACCESS PANEL IN HARD CEILINGS FOR CONTROL/ISOLATION VALVES WITH ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL LIGHT FIXTURES, LIGHT FIXTURE SUPPORT RODS, AND FIRE SPRINKLER HEADS FOR INTERFERENCE.
22. DRAINS SHALL BE INSTALLED AT ALL LOW POINTS OF WATER PIPING SYSTEMS.
23. PIPING CONNECTIONS WITH UNIONS OR FLANGES SHALL BE MADE TO COILS OR TUBE BUNDLES TO FACILITATE REMOVAL OF THAT ITEM WITHOUT DISTURBING THE BRANCH VALVES AND/OR PIPING.
24. PROVIDE AND INSTALL PIPE SLEEVE AT ALL BUILDING FOUNDATION PENETRATIONS. CORE DRILL THRU FOUNDATION WALL WHERE REQUIRED.
25. PROVIDE AND INSTALL PIPE SLEEVE AND SEAL ALL FLOOR AND WALL PENETRATIONS AIR AND WATER TIGHT. CORE DRILL THRU FLOOR AS REQUIRED.
26. COORDINATE WITH MECHANICAL CONTRACTOR ON FLOOR DRAIN/OPEN SITE LOCATIONS WITH MECHANICAL EQUIPMENT.
27. COORDINATE WITH FIRE PROTECTION CONTRACTOR ON FLOOR DRAIN/OPEN SITE LOCATIONS WITH FIRE PROTECTION EQUIPMENT.
28. SHUT-OFF VALVES INSTALLED IN INSULATED PIPING SHALL BE PROVIDED WITH EXTENDED OPERATOR HANDLE TO OUTSIDE OF INSULATION.
29. PLUMBING CONTRACTOR SHALL VERIFY ALL SANITARY AND WATER PIPING LOCATION, INVERTS, AND CONDITION BEFORE PERFORMING ANY WORK.
30. FLUSH HANDLES FOR A.D.A. WATER CLOSETS SHALL BE LOCATED ON THE APPROACH SIDE OF WATER CLOSET.
31. ALL EXTERIOR PLUMBING PIPING SHALL BE PRIMED AND PAINTED. COLOR TO MATCH EXTERIOR WALL OR ROOF, OR AS DIRECTED BY ARCHITECT AND/OR GENERAL CONTRACTOR.
32. NO PIPING SHALL BE INSTALLED ABOVE ELECTRICAL EQUIPMENT UNLESS OTHERWISE NOTED. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL EQUIPMENT LOCATIONS. COORDINATE WITH ELECTRICAL CONTRACTOR FOR EXACT LOCATIONS.
33. GAS WATER HEATER EXHAUST AND INTAKE VENT PIPING TO BE INSTALLED AS PER MANUFACTURER SPECIFICATIONS. VENT PIPING SHALL BE A MINIMUM DISTANCE OF 10'-0" FROM ANY MECHANICAL OUTSIDE AIR INTAKES. COORDINATE PIPE RUN WITH MECHANICAL FURNACE/BOILER INTAKE AND EXHAUST VENT PIPING. COORDINATE WITH MECHANICAL AND GENERAL CONTRACTOR.
34. OUTSIDE AIR INTAKES SHALL BE A MINIMUM DISTANCE OF 10'-0" FROM ANY EXHAUST/RELIEF OUTLET, FLUE, GAS OR PLUMBING VENT. COORDINATE WITH RESPECTIVE TRADES.
35. COORDINATE WATER AND WASTE PIPING FOR CLOTHES WASHER WITH DRYER DUCT VENTING.
36. SEAL ALL EXTERIOR OPENINGS WATER TIGHT.
37. PLUMBING CONTRACTOR TO THOROUGHLY CLEAN ALL EXPOSED PIPING FOR PAINTING AS SPECIFIED. PAINTING BY PAINTING CONTRACTOR.
38. PROVIDE SIGNAGE AT TRUCK FILL SERVED BY NON-POTABLE WATER SUPPLY STATING, "NON-POTABLE WATER DO NOT DRINK."

# PLUMBING RENOVATION NOTES:

1. THE DEMOLITION PLAN HAS BEEN PREPARED TO ASSIST THE PLUMBING CONTRACTOR IN DETERMINING THE SCOPE OF WORK TO BE INCLUDED IN THIS PROJECT. IT IS NOT INTENDED TO BE A COMPLETE INDICATION OF ALL WORK REQUIRED TO COMPLETE THE PROJECT. THE PLUMBING CONTRACTOR SHALL REVIEW DRAWINGS AND SPECIFICATIONS INCLUDING DEMOLITION SHOWN FOR OTHER TRADES, AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS, IN ORDER TO DETERMINE THE SCOPE OF DEMOLITION WORK.
2. PLUMBING CONTRACTOR SHALL COMPLETELY REMOVE ALL PIPING, RELATED HANGERS, AND SUPPORTS BEING DEMOLISHED. PIPING THAT IS ABANDONED SHALL BE REMOVED IF IT BECOMES EXPOSED DURING THE DEMOLITION OR THE REMODELING PHASE OF THE PROJECT. ALL ABANDONED PIPING SHALL BE CAPPED. PLUMBING CONTRACTOR SHALL VERIFY ALL PIPING BEING REMOVED IS NO LONGER IN USE.
3. REMOVE ALL ABANDONED SANITARY, VENT, AND WATER PIPING BELOW FLOOR COMPLETE IN AREAS OF FLOOR CUTTING. VERIFY USE OF PIPING BEFORE REMOVAL.
4. REMOVE ALL ABANDONED SANITARY, VENT, AND WATER PIPING IN WALLS, CHASES, AND ABOVE FINISH CEILING SPACE COMPLETE IF PIPING IS EXPOSED DURING DEMOLITION. VERIFY USE OF PIPING BEFORE REMOVAL
5. FIELD VERIFY THE AVAILABLE CLEARANCES FOR PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
6. REFER TO DIVISION 1, GENERAL REQUIREMENTS, CUTTING AND PATCHING FOR ALL CUTTING AND PATCHING. WHERE GENERAL CONTRACTOR IS PERFORMING CUTTING AND PATCHING, COORDINATE AREA OF CUTTING AND PATCHING REQUIRED WITH GENERAL CONTRACTOR.
7. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
8. ALL REMOVED ITEMS THAT THE OWNER WANTS SHALL BE REMOVED AND TURNED OVER TO THE OWNER AT DESIGNATED STORAGE SPACE ON SITE. ALL REMAINING ITEMS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.

# PLUMBING SHEET INDEX



| SHEET # | SHEET NAME |
|---|---|
| P101 | PLUMBING GENERAL INFORMATION SHEET |
| P201 | PLUMBING MAIN FLOOR PLAN - DEMOLITION - PHASE I |
| P202 | PLUMBING MAIN FLOOR PLAN - DEMOLITION - BELOW FLOOR - PHASE II |
| P203 | PLUMBING MAIN FLOOR PLAN - DEMOLITION - ABOVE FLOOR - PHASE II |
| P301 | PLUMBING MAIN FLOOR PLAN - REMODEL - PHASE I |
| P302 | PLUMBING MAIN FLOOR PLAN - ADDITION - BELOW FLOOR - PHASE I |
| P303 | PLUMBING MAIN FLOOR PLAN - ADDITION - LOWER LEVEL - PHASE I |
| P304 | PLUMBING MAIN FLOOR PLAN - ADDITION - UPPER LEVEL - PHASE I |
| P305 | PLUMBING MAIN FLOOR PLAN - REMODEL - BELOW FLOOR -PHASE II |
| P306 | PLUMBING MAIN FLOOR PLAN - REMODEL - ABOVE FLOOR - PHASE II |
| P401 | PLUMBING WASTE AND VENT SCHEMATIC |
| P402 | PLUMBING WATER PIPING SCHEMATIC |
| P501 | PLUMBING SCHEDULES |
| P502 | PLUMBING DETAILS |



**LINE TYPE KEY**

- ——— NEW WORK BY PLUMBING CONTRACTOR ( DARK SOLID LINE)
- ——— NEW WORK BY OTHERS AND/OR EXISTING TO REMAIN (LIGHT SOLID LINE)
- — — — EXISTING TO BE REMOVED BY PLUMBING CONTRACTOR (DARK SHORT DASHED LINE)

# CONTRACTOR ABBREVIATION KEY

| ABBR: | CONTRACTOR: |
|---|---|
| C.C. | CIVIL CONTRACTOR |
| E.C. | ELECTRICAL CONTRACTOR |
| G.C. | GENERAL CONTRACTOR |
| M.C. | MECHANICAL CONTRACTOR |
| P.C. | PLUMBING CONTRACTOR |


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PLUMBING GENERAL INFORMATION SHEET

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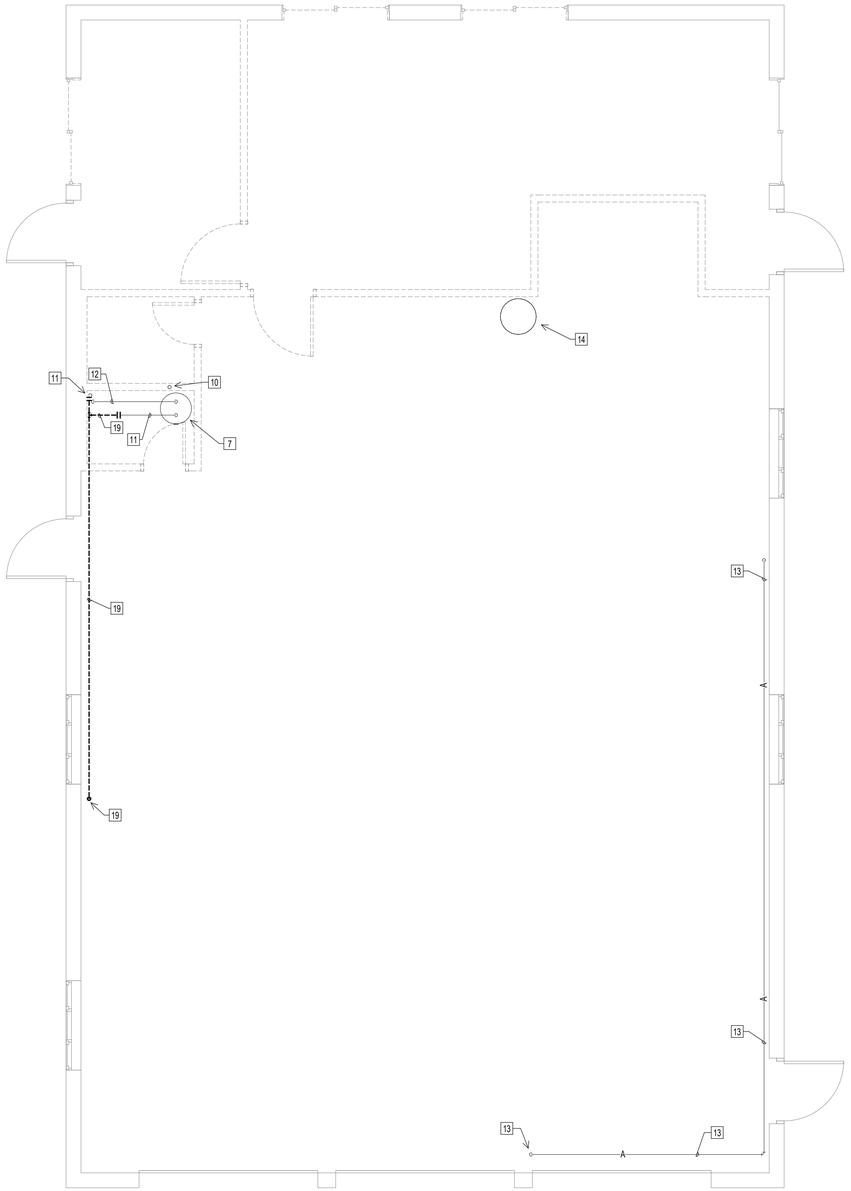
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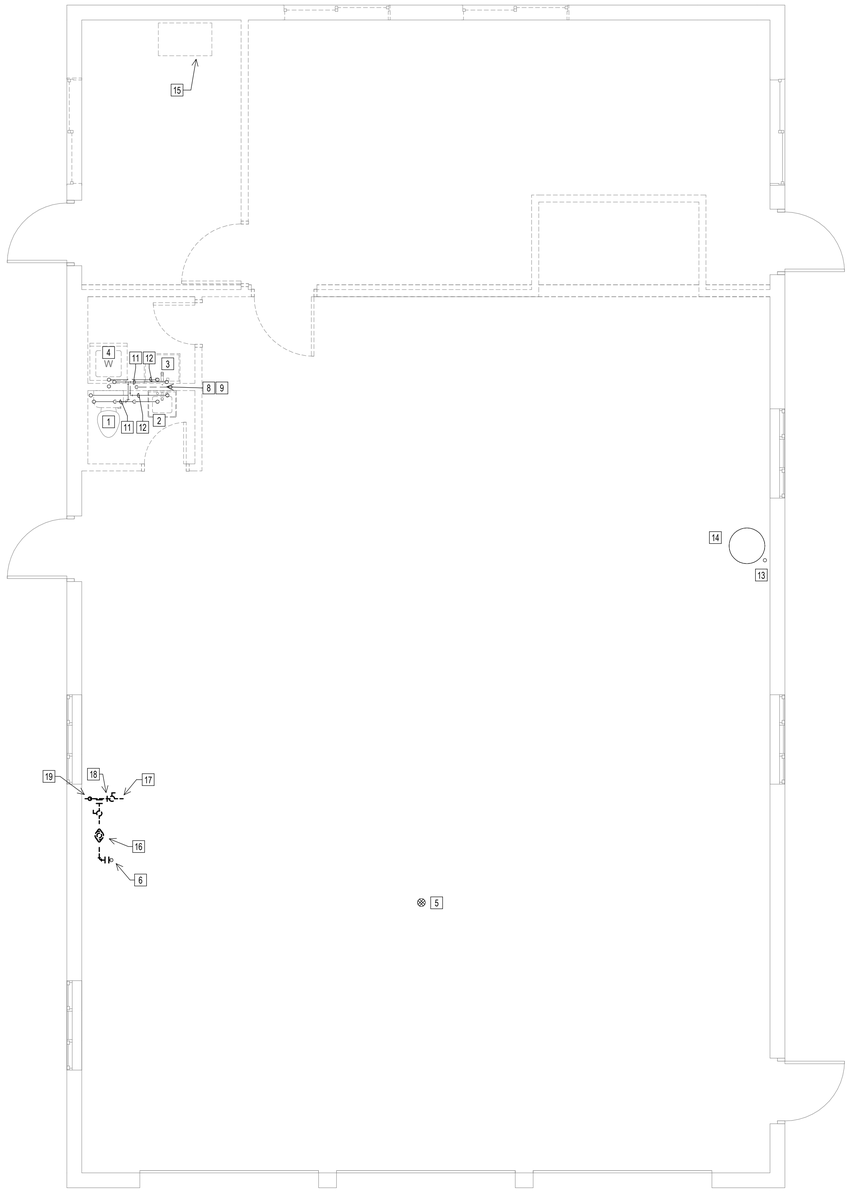
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2 P201 **MAIN FLOOR PLAN - DEMOLITION**
1/4" = 1'-0"
UPPER LEVEL
PHASE I

NORTH




1 P201 **MAIN FLOOR PLAN - DEMOLITION**
1/4" = 1'-0"
LOWER LEVEL
PHASE I

NORTH

| # | PLUMBING DEMOLTION NOTES - P201 |
|---|---|
| 1 | EXISTING WATER CLOSET TO REMAIN. |
| 2 | EXISTING LAVATORY SINK TO REMAIN. |
| 3 | EXISTING LAUNDRY TUB SINK TO REMAIN. |
| 4 | EXISTING CLOTHES WASHER CONNECTIONS TO REMAIN. |
| 5 | EXISTING FLOOR DRAIN TO REMAIN. |
| 6 | EXISTING WATER SERVICE TO REMAIN. |
| 7 | EXISTING ELECTRIC WATER HEATER TO REMAIN. |
| 8 | EXISTING SANITARY WASTE PIPING TO REMAIN. |
| 9 | EXISTING VENT PIPING TO REMAIN. |
| 10 | EXISTING VENT THRU ROOF TO REMAIN. |
| 11 | EXISTING COLD WATER PIPING TO REMAIN. |
| 12 | EXISTING HOT WATER PIPING TO REMAIN. |
| 13 | EXISTING COMPRESSED AIR LINE TO REMAIN. |
| 14 | EXISTING AIR COMPRESSOR TO REMAIN. |
| 15 | FLOOR CUTTING AND PATCHING BY GENERAL CONTRACTOR. COORDINATE REQUIRED AREA OF FLOOR CUTTING WITH GENERAL CONTRACTOR. |
| 16 | REMOVE WATER METER AND ALL RELATED PIPING COMPLETE. RETURN WATER METER TO LOCAL UTILITIES. COORDINATE WORK WITH LOCAL UTILITIES. |
| 17 | REMOVE TRUCK FILL AND RELATED VALVE AND PIPING COMPLETE. |
| 18 | REMOVE HOSE BIBB AND ALL RELATED PIPING AND TRIM COMPLETE. |
| 19 | REMOVE COLD WATER PIPING FROM WATER MATER TO BREAK LINES COMPLETE. |

**NOTE:**
**DEMOLITION OF WATER PIPING AND WATER METER TO BE PERFORMED AT NEAR END OF PHASE I WORK TO MINIMIZE DOWN TIME OF THE BUILDING. COORDINATE ANY DOWN WITH OWNER AND GENERAL CONTRACTOR.**


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PLUMBING MAIN FLOOR PLAN - DEMOLITION - PHASE I

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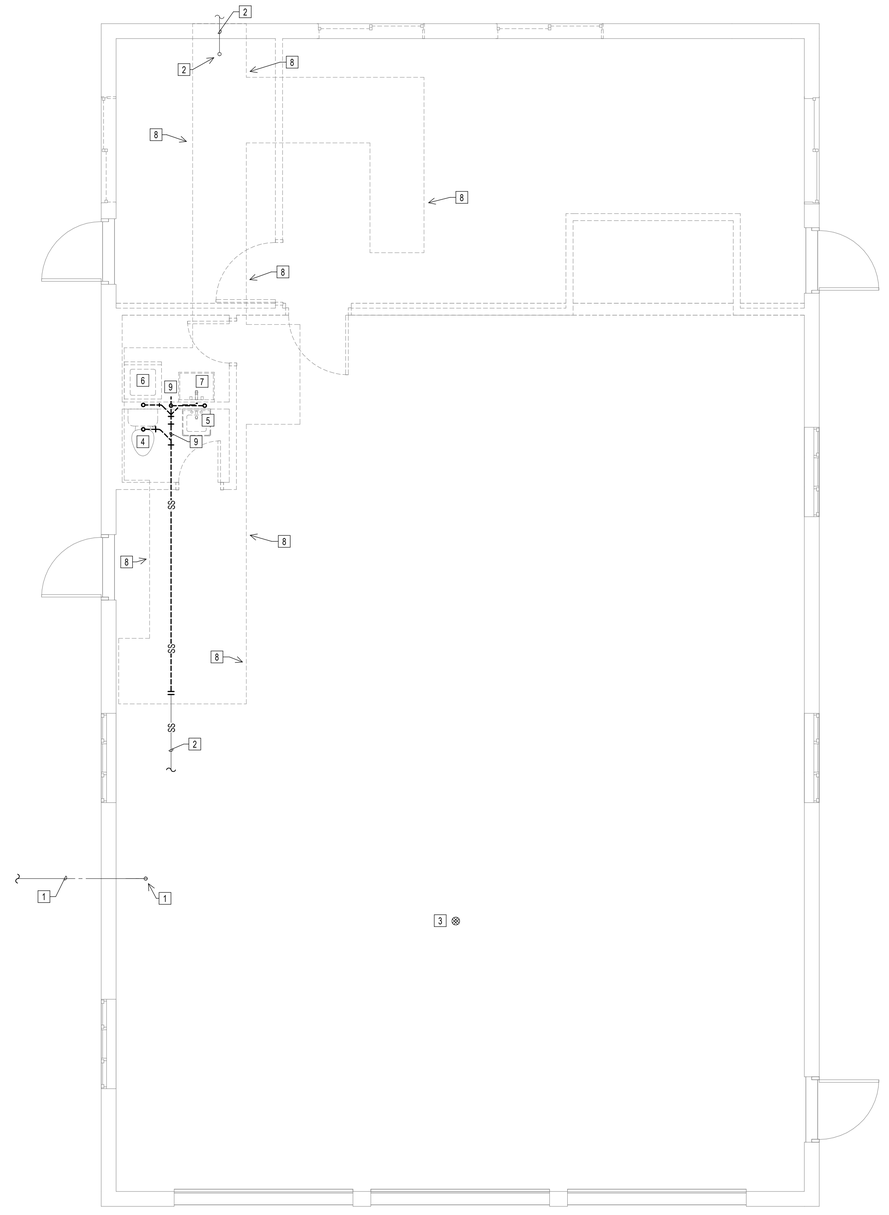
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1 / P202 MAIN FLOOR PLAN - DEMOLITION
1/4" = 1'-0"
BELOW FLOOR
PHASE II

NORTH

| # | PLUMBING DEMOLITION NOTES - P202 |
|---|---|
| 1 | EXISTING WATER SERVICE TO REMAIN. |
| 2 | EXISTING SANITARY WASTE PIPING TO REMAIN. |
| 3 | EXISTING FLOOR DRAIN TO REMAIN. |
| 4 | REMOVE WATER CLOSET, AND ALL RELATED TRIM COMPLETE. |
| 5 | REMOVE LAVATORY SINK, FAUCET AND ALL RELATED TRIM COMPLETE. |
| 6 | REMOVE AUTO CLOTHES WASHER WASTE, COLD AND HOT WATER AND ALL RELATED PIPING COMPLETE. |
| 7 | REMOVE LAUNDRY TUB AND ALL RELATED PIPING AND TRIM COMPLETE. |
| 8 | FLOOR CUTTING AND PATCHING BY GENERAL CONTRACTOR. COORDINATE THE REQUIRED AREA OF THE FLOOR CUTTING WITH THE GENERAL CONTRACTOR. |
| 9 | REMOVE SANITARY PIPING BELOW FLOOR IN AREA OF TOILET/LAUNDRY ROOM TO BREAK LINES COMPLETE. FIELD VERIFY EXISTING SANITARY PIPING. |


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PLUMBING MAIN FLOOR
PLAN - DEMOLITION -
BELOW FLOOR - PHASE II

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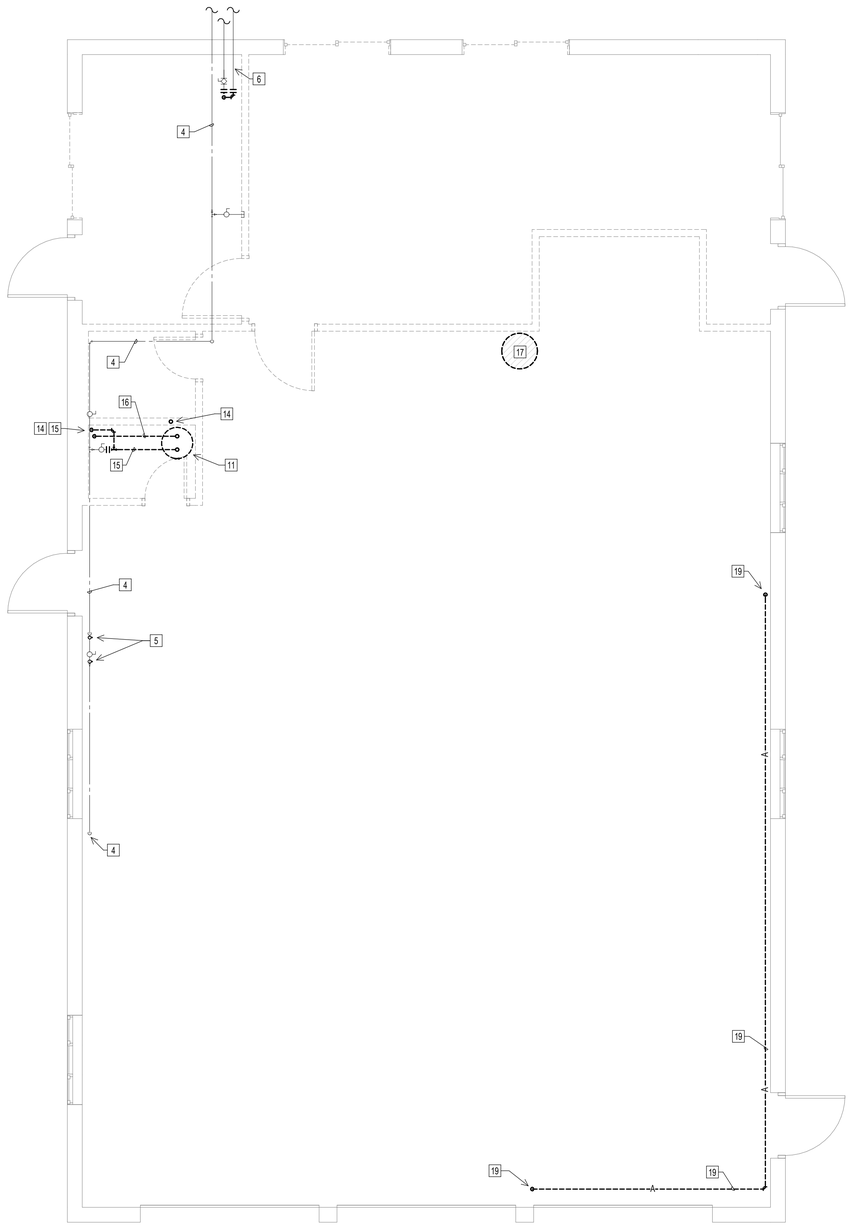
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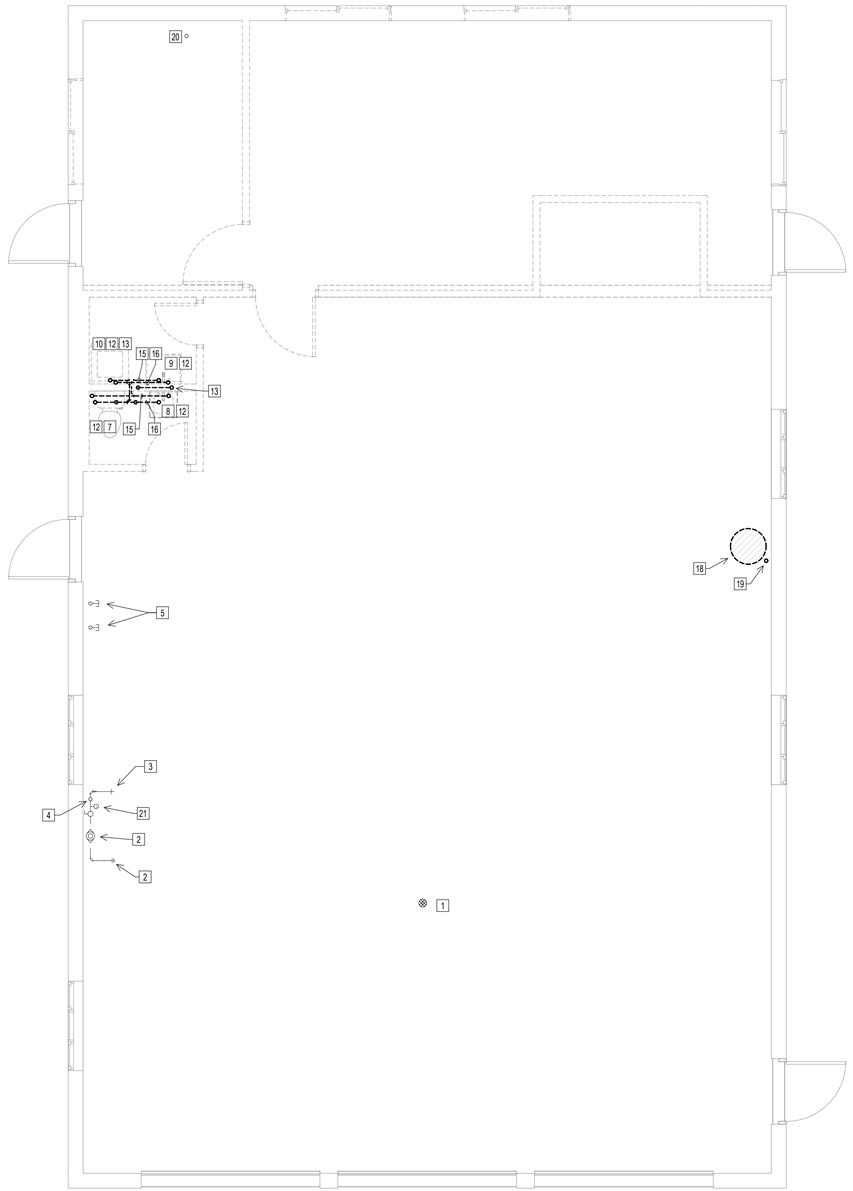
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2 P203 MAIN FLOOR PLAN - DEMOLITION
1/4" = 1'-0"
UPPER LEVEL
PHASE II
NORTH




1 P203 MAIN FLOOR PLAN - DEMOLITON
1/4" = 1'-0"
LOWER LEVEL
PHASE II
NORTH

## PLUMBING DEMOLITION NOTES - P203

| # | |
|---|---|
| 1 | EXISTING FLOOR DRAIN TO REMAIN. |
| 2 | EXISTING WATER SERVICE AND WATER METER TO REMAIN. |
| 3 | EXISTING HOSE BIBB TO REMAIN. |
| 4 | EXISTING COLD WATER PIPING TO REMAIN. |
| 5 | EXISTING COLD WATER CAPPED ROUGH-INS FOR WATER SOFTENERS TO REMAIN. |
| 6 | EXISTING HOT WATER AND HOT WATER RETURN TO REMAIN. REMOVE LOOP PIPING, EXTEND HOT AND HOT WATER RETURN TO NEW FIXTURES UNDER NEW CONSTRUCTION PHASE II OF THE PROJECT. BALANCE VALVE TO REMAIN. |
| 7 | REMOVE WATER CLOSET, FLUSH VALVE AND ALL RELATED TRIM COMPLETE. |
| 8 | REMOVE LAVATORY SINK, FAUCET AND ALL RELATED TRIM COMPLETE. |
| 9 | REMOVE LAUNDRY TUB SINK, FAUCET AND ALL RELATED TRIM COMPLETE. |
| 10 | REMOVE AUTO CLOTHES WASHER WASTE, COLD AND HOT WATER AND ALL RELATED PIPING COMPLETE. |
| 11 | REMOVE ELECTRIC WATER HEATER AND ALL RELATED PIPING COMPLETE. COORDINATE WORK WITH ELECTRICAL CONTRACTOR. |
| 12 | REMOVE SANITARY PIPING FROM FIXTURE TO BELOW FLOOR COMPLETE. |
| 13 | REMOVE VENT PIPING FROM FIXTURE TO THE VENT THRU ROOF COMPLETE. |
| 14 | REMOVE VENT PIPING AND VENT THRU ROOF COMPLETE. |
| 15 | REMOVE COLD WATER PIPING FROM BREAK LINES/FIXTURE TO BREAK LINES COMPLETE. |
| 16 | REMOVE HOT WATER PIPING FROM BREAK LINES/FIXTURE TO WATER HEATER COMPLETE. |
| 17 | REMOVE AIR COMPRESSOR AND ALL RELATED PIPING COMPLETE. |
| 18 | REMOVE AIR COMPRESSOR AND ALL RELATED PIPING COMPLETE. SALVAGE AIR COMPRESSOR FOR INSTALLATION IN ADDITION. COORDINATE WORK WITH ELECTRICAL AND GENERAL CONTRACTOR. |
| 19 | REMOVE AIR PIPING ALONG WITH ALL RELATED HANGER/SUPPORT FROM AIR COMPRESSOR TO ALL AIR CONNECTIONS COMPLETE. |
| 20 | EXISTING SANITAIRY TO REMAIN. |
| 21 | EXISTING PRESSURE GAUGE TO REMAIN. |


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PLUMBING MAIN FLOOR PLAN - DEMOLITION - ABOVE FLOOR - PHASE II

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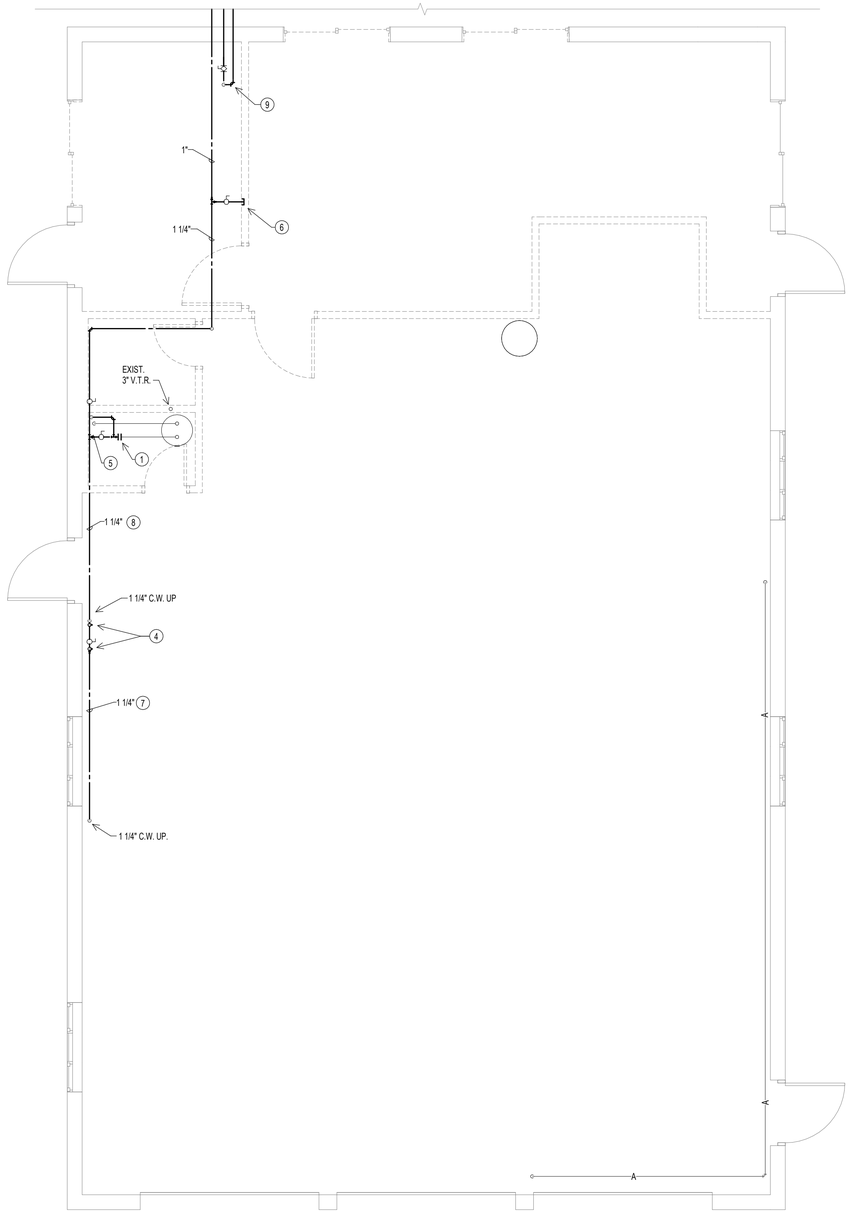
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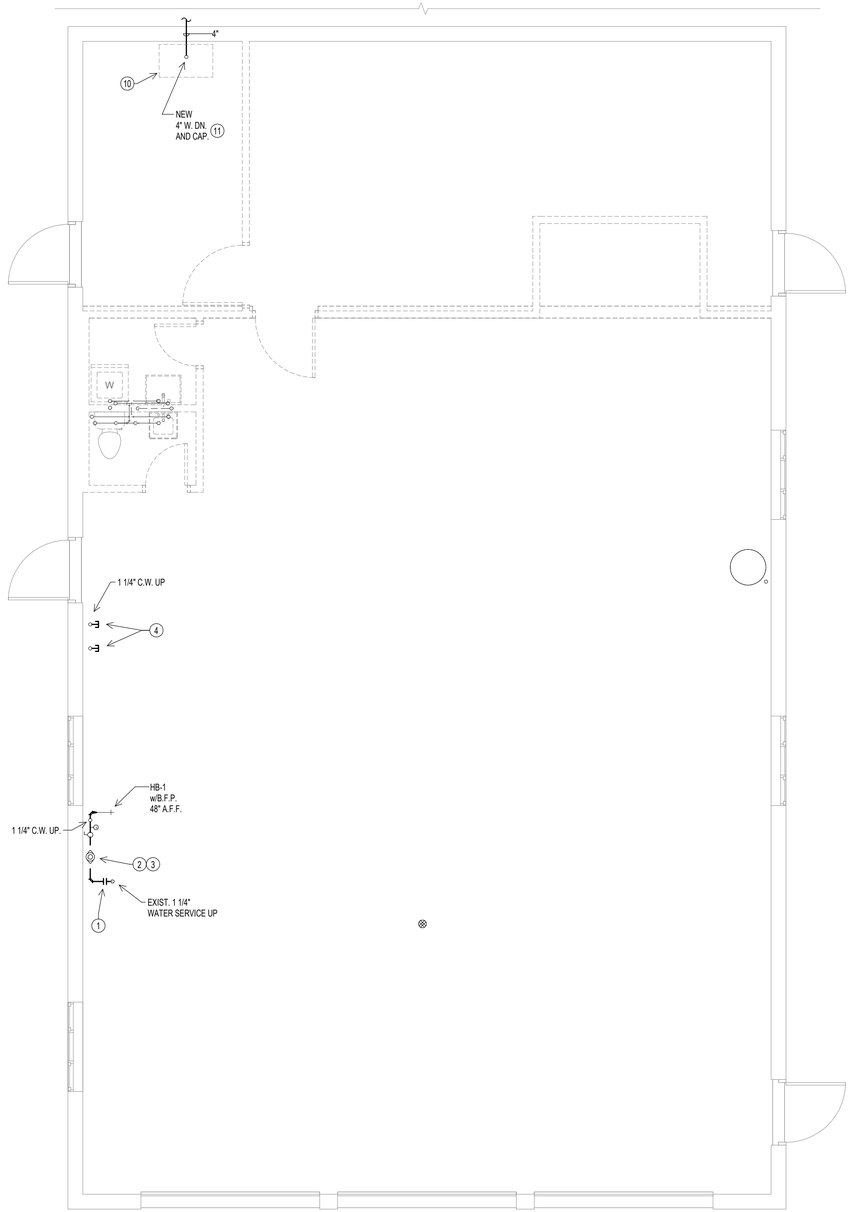
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2 P301 MAIN FLOOR PLAN - REMODEL
1/4" = 1'-0"
UPPER LEVEL
PHASE I
NORTH




1 P301 MAIN FLOOR PLAN - REMODEL
1/4" = 1'-0"
LOWER LEVEL
PHASE I
NORTH

| # | PLUMBING REMODEL NOTES - P301 |
|---|---|
| 1 | CONNECTION POINT OF PLUMBING PIPING. FIELD VERIFY EXISTING PIPE LOCATION, SIZE, INVERT ELEVATION, MATERIAL AND CONDITION OF PIPE BEFORE PROCEEDING WITH ANY WORK. |
| 2 | COORDINATE SHUT DOWN OF BUILDING WATER SERVICE TO PERFORM THIS WORK WITH OWNER AND GENERAL CONTRACTOR. BEFORE PERFORMING ANY WORK. |
| 3 | NEW 1" WATER METER, WATER METER SUPPLIED BY CITY UTILITIES. COORDINATE WATER METER INSTALL WITH CITY UTILITIES. |
| 4 | PROVIDE 1 1/4" ROUGH-IN TEE'S AND CAP FOR FUTURE WATER SOFTENER. WATER SOFTENER TO BE INSTALLED UNDER PHASE II CONSTRUCTION. |
| 5 | EXTEND NEW 3/4" COLD WATER AND CONNECT TO EXISTING COLD WATER TO SERVE EXISTING TOILET AND LAUDRY ROOM. FIELD VERIFY EXISTING PIPING. |
| 6 | PROVIDE 1/2" CAP STUB OUT FOR SINK THAT WILL BE INSTALLED UNDER PHASE II CONSTRUCITON. |
| 7 | RUN WATER PIPING ALONG WALL. RUN WATER PIPING AT ELEVATION TO CLEAR EXISTING WINDOW TO WATER SOFTENER ROUGH-INS. COORDINATE LOCATION WITH GENERAL CONTRACTOR. |
| 8 | RUN WATER PIPING ALONG WALL AS HIGH AS POSSIBLE. COORDINATE LOCATION WITH GENERAL CONTRACTOR. |
| 9 | 3/4" HOT WATER AND 3/4" HOT WATER RETURN EXTEND INTO EXISTING BUILDING AND LOOP TO TEMPORARY CONNECT PIPING TOGETHER, PROVIDE BALANCE VALVE. CONTINUATION OF THE HOT WATER AND HOT WATER RETURN TO BE UNDER PHASE II OF CONSTRUCTION. |
| 10 | FLOOR CUTTING AND PATCHING BY GENERAL CONTRACTOR. COORDINATE REQUIRED AREA OF FLOOR CUTTING WITH GENERAL CONTRACTOR. |
| 11 | EXTEND NEW 4" SANITARY FROM ADDITION UP TO 12" ABOVE FINISH FLOOR AND CAP. CONTINUATION OF SANITARY PIPING UNDER PHASE II OF CONSTRUCTION. |


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PLUMBING MAIN FLOOR
PLAN - REMODEL - PHASE
I

REVISIONS:

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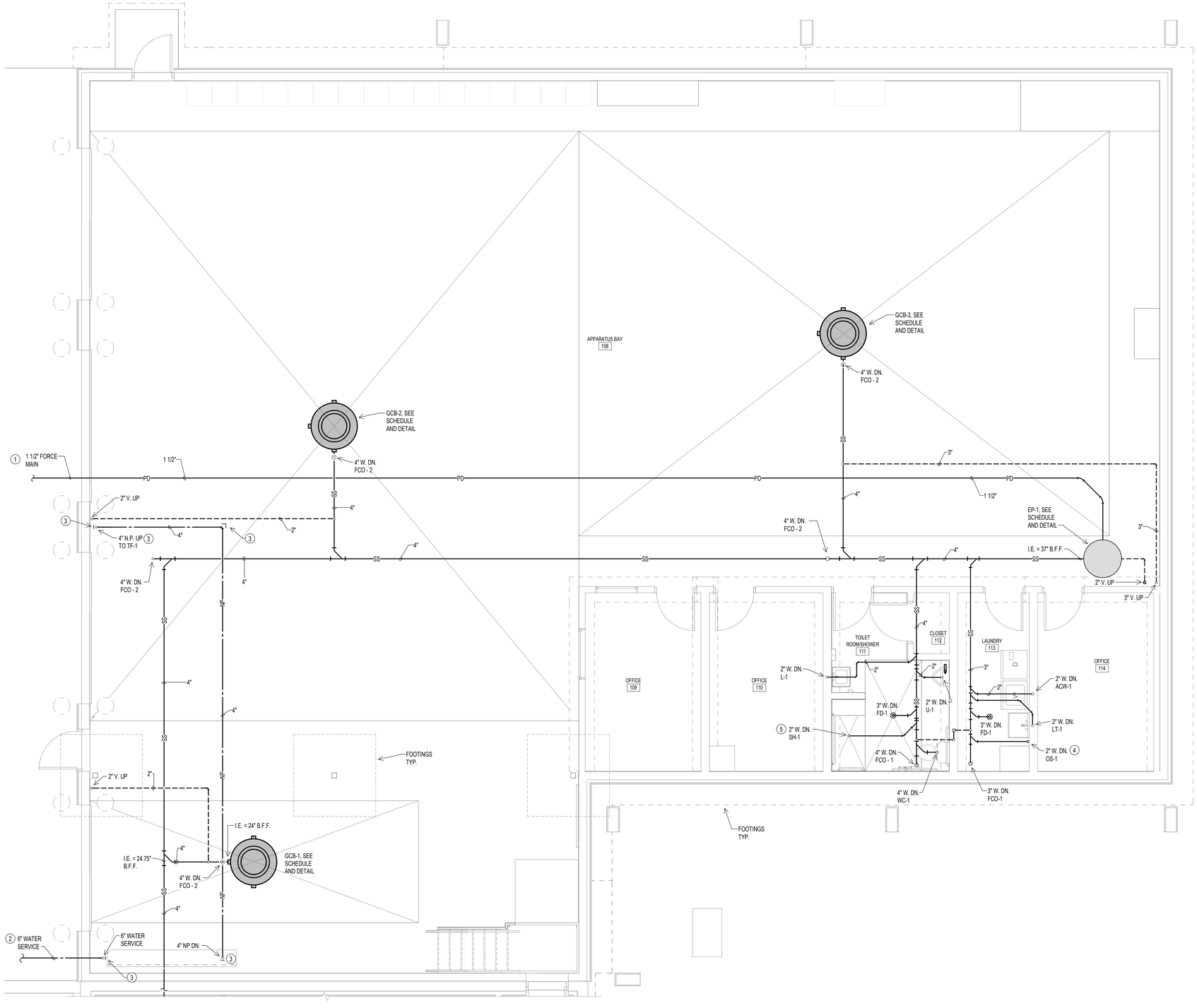
P301

L&P PROJECT # 26057


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8/12/2026 9:09:51 AM Designer MSB JKM

| # | PLUMBING NOTES - P302 |
|---|---|
| 1 | CONTINUATION OF PUMP DISCHARGE TO SANITARY SEWER MAIN IN STREET BY CIVIL CONTRACTOR. PLUMBING CONTRACTOR SHALL COORDINATE PIPE SIZE AND INVERT ELEVATION AND LOCATION WITH CIVIL CONTRACTOR. |
| 2 | CONTINUATION OF TRUCK FILL WATER SERVICE PIPING BY CIVIL CONTRACTOR. PLUMBING CONTRACTOR SHALL COORDINATE PIPE SIZE AND INVERT ELEVATION AND LOCATION WITH CIVIL CONTRACTOR. |
| 3 | PROVIDE THRUST BLOCK AS PER NFPA-24. |
| 4 | COORDINATE LOCATION OF OPEN SITE DRAIN WITH MECHANICAL CONTRACTOR. |
| 5 | COORDINATE LOCATION OF SHOWER DRAIN WITH GENERAL CONTRACTOR. |




1 / P302 MAIN FLOOR PLAN - ADDITION
1/4" = 1'-0"
BELOW FLOOR
PHASE I


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PLUMBING MAIN FLOOR PLAN - ADDITION - BELOW FLOOR - PHASE I

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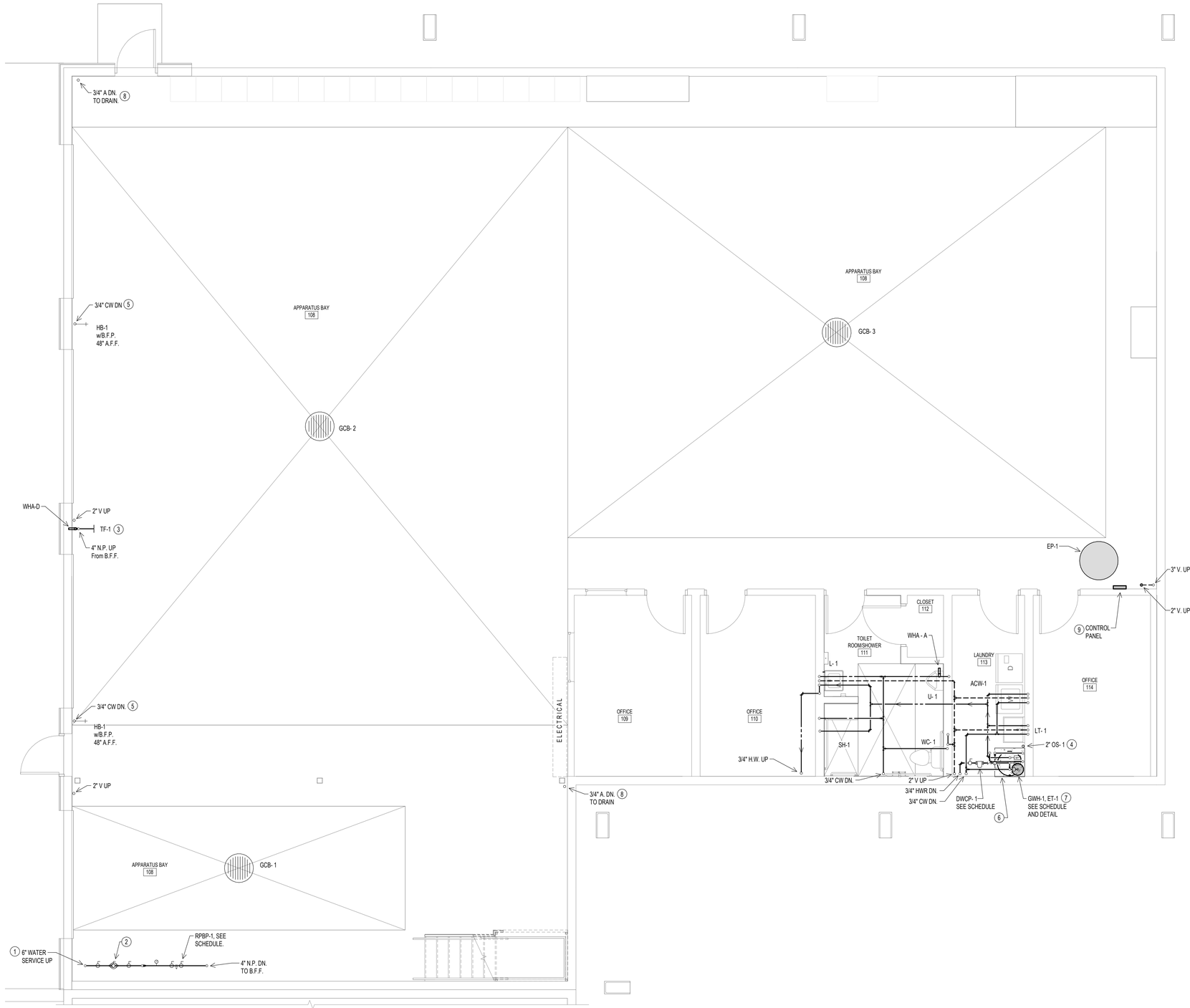
P302

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| # | PLUMBING NOTES - P303 |
|---|---|
| 1 | PLUMBING CONTRACTOR TO PROVIDE A 6"x 6"x 4" TEE AT NEW TRUCK FILL WATER SERVICE. PROVIDE 6" BLIND FLANGE TO CAP TEE FOR FUTURE EXTENSION OF FIRE PROTECTION. CONTINUATION OF 4" DOMESTIC WATER BY PLUMBING CONTRACTOR. |
| 2 | 4" TRUCK FILL WATER METER WITH 3" BYPASS PIPING. WATER METER SUPPLIED BY CITY UTILITIES. COORDINATE WATER METER INSTALL WITH CITY UTILITIES. |
| 3 | PROVIDE 4" TRUCK FILL CONNECTION AT 36" ABOVE FINISH FLOOR. COORDINATE HOSE TYPE CONNECTION AND VALVE HEIGHT WITH OWNER. |
| 4 | COORDINATE LOCATION OF OPEN SITE DRAIN WITH MECHANICAL CONTRACTOR. |
| 5 | PROVIDE BALL VALVE IN COLD WATER DROP AT 60" ABOVE FINISH FLOOR. |
| 6 | 4" HIGH CONCRETE PAD BY GENERAL CONTRACTOR. COORDINATE SIZE AND LOCATION OF CONCRETE PAD WITH GENERAL CONTRACTOR. |
| 7 | EXHAUST AND INTAKE VENT FUEL GAS VENT PIPING FOR GAS WATER HEATER THRU BUILDING WALL. VENT PIPING TO MEET UL1738 REQUIREMENTS AND INSTALL AS PER MANUFACTURER SPECIFICATIONS. PRIME AND PAINT INTAKE AND EXHAUST TERMINATIONS. COORDINATE COLOR WITH ARCHITECT. |
| 8 | EXTEND COMPRESSED AIR DRAIN LINE TO 36" ABOVE FINISH FLOOR, PROVIDE BALL VALVE. |
| 9 | EP-1 CONTROL PANEL TO BE LOCATED AT 48" ABOVE FINISH FLOOR. COORDINATE FINAL LOCATION WITH OWNER AND GENERAL CONTRACTOR. |




1 / P303 MAIN FLOOR PLAN - ADDITION

1/4" = 1'-0"

LOWER LEVEL
PHASE I

NORTH


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PLUMBING MAIN FLOOR PLAN - ADDITION - LOWER LEVEL - PHASE I

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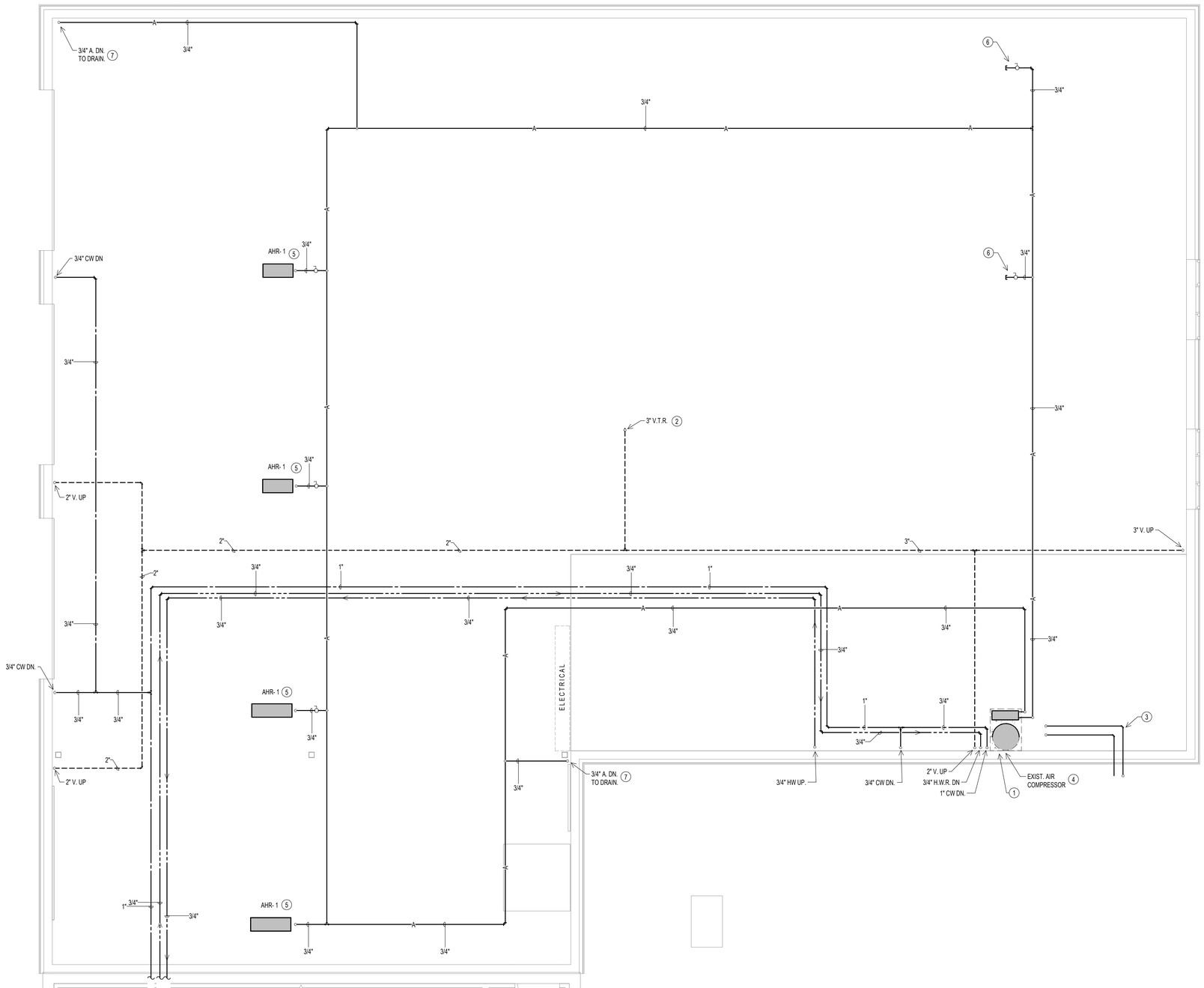
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1 / P304 MAIN FLOOR PLAN - ADDITION
1/4" = 1'-0"
UPPER LEVEL
PHASE I

NORTH

| # | PLUMBING NOTES - P304 |
|---|---|
| 1 | 4" HIGH CONCRETE PAD BY GENERAL CONTRACTOR. COORDINATE SIZE AND LOCAITON OF CONCRETE PAD WITH GENERAL CONTRACTOR. |
| 2 | SANITARY VENT THRU ROOF SHALL BE INSTALLED AT A MAXIMUM OF 5'-0" OF ROOF PEAK. PRIME AND PAINT VENT THRU ROOF. COORDINATE COLOR WITH ARCHITECT AND GENERAL CONTRACTOR. |
| 3 | EXHAUST AND INTAKE VENT FUEL GAS VENT PIPING FOR GAS WATER HEATER THRU BUILDING WALL. VENT PIPING TO MEET UL1738 REQUIREMENTS AND INSTALL AS PER MANUFACTURER SPECIFICATIONS. PRIME AND PAINT INTAKE AND EXHAUST TERMINATIONS. COORDINATE COLOR WITH ARCHITECT. |
| 4 | INSTALL RELOCATED AIR COMPRESSOR TO NEW LOCATION. INSTALL ALL RELATED COMPONENTS ALONG WITH NEW AIR DRY. COORDINATE POWER CONNECTION WITH ELECTRICAL CONTRACTOR. |
| 5 | AIR HOSE REEL LOCATION FOR TRUCK QUICK CONNECT, MOUNT HOSE REEL FROM STRUCTURE. COORDINATE TRUCK PARKING AND LOCATION OF AIR HOSE REEL WITH OWNER. AIR HOSE CONNECTOR BY OWNER, INSTALLED BY PLUMBING CONTRACTOR. |
| 6 | STUB OUT FOR FUTURE CONNECTION OF AIR HOSE CONNECTION LOCATION FOR TRUCK QUICK CONNECT. COORDINATE TRUCK PARKING AND LOCATION OF AIR HOSE DROP WITH OWNER. |
| 7 | EXTEND COMPRESSED AIR DRAIN LINE TO 36" ABOVE FINISH FLOOR, PROVIDE BALL VALVE. |


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PLUMBING MAIN FLOOR
PLAN - ADDITION - UPPER
LEVEL - PHASE I

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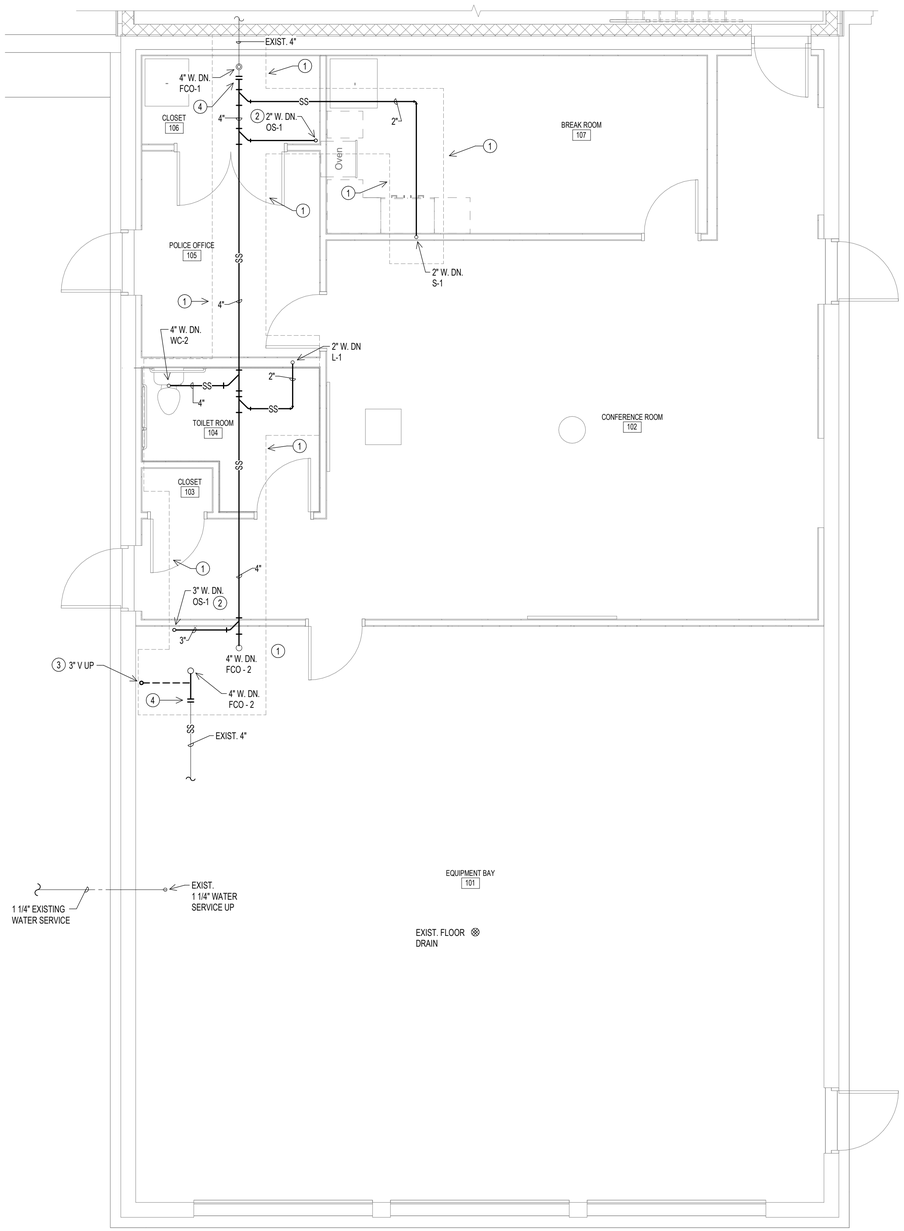
P304

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| # | PLUMBING NOTES - P305 |
|---|---|
| 1 | FLOOR CUTTING AND PATCHING BY GENERAL CONTRACTOR. COORDINATE REQUIRED AREA OF FLOOR CUTTING WITH GENERAL CONTRACTOR. |
| 2 | COORDINATE LOCATION OF OPEN SITE DRAIN WITH MECHANICAL CONTRACTOR. |
| 3 | PROVIDE NEW 3" VENT OFF OF EXISTING SANITARY PIPING BELOW FLOOR. PROVIDE NEW FLOOR CLEAN OUT AT END OF SANITARY PIPE. FIELD VERIFY EXISTING SANITARY PIPE LOCATION. |
| 4 | CONNECTION POINT OF PLUMBING PIPING. FIELD VERIFY EXISTING PIPE LOCATION, SIZE, INVERT ELEVATION, MATERIAL AND CONDITION OF PIPE BEFORE PROCEEDING WITH ANY WORK. |




1 / P305 MAIN FLOOR PLAN - REMODEL
1/4" = 1'-0"
BELOW FLOOR
PHASE II

NORTH

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PLUMBING MAIN FLOOR
PLAN - REMODEL - BELOW
FLOOR -PHASE II

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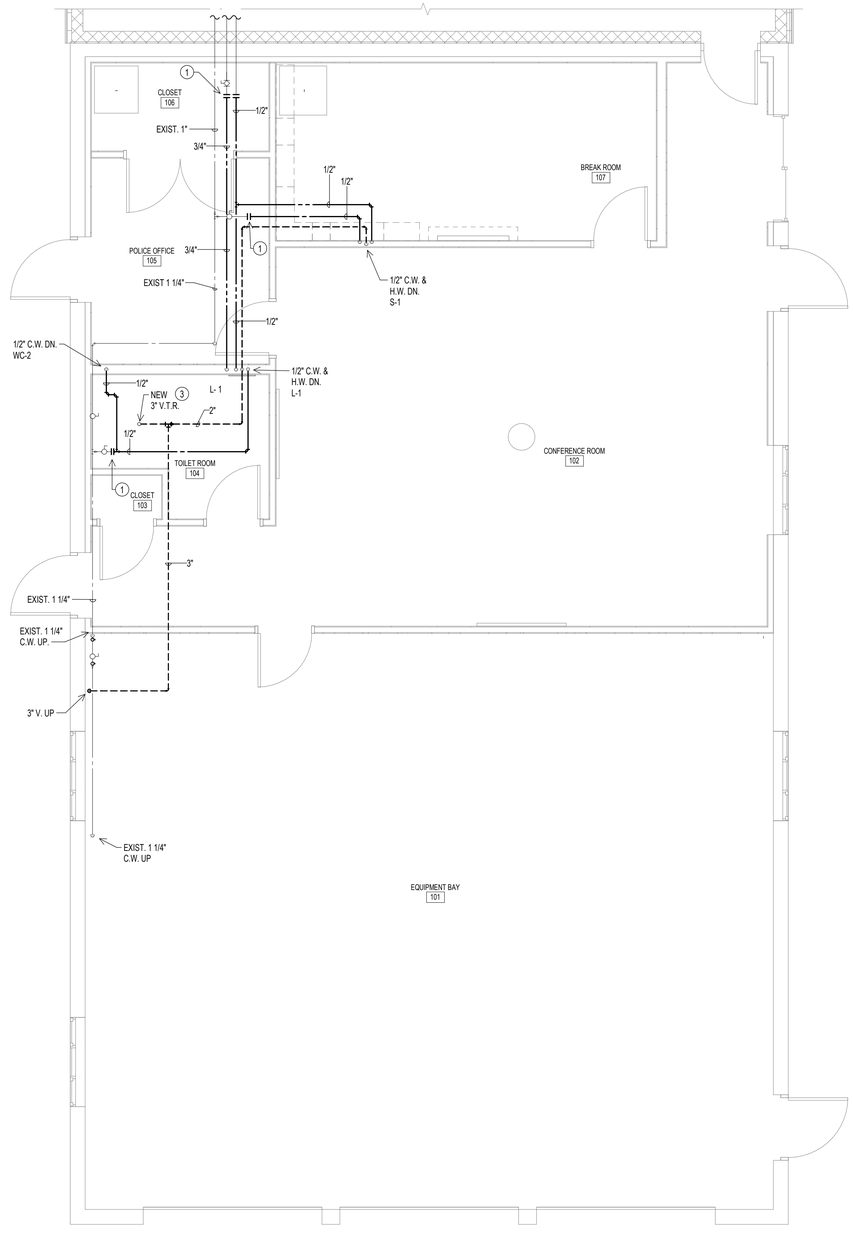
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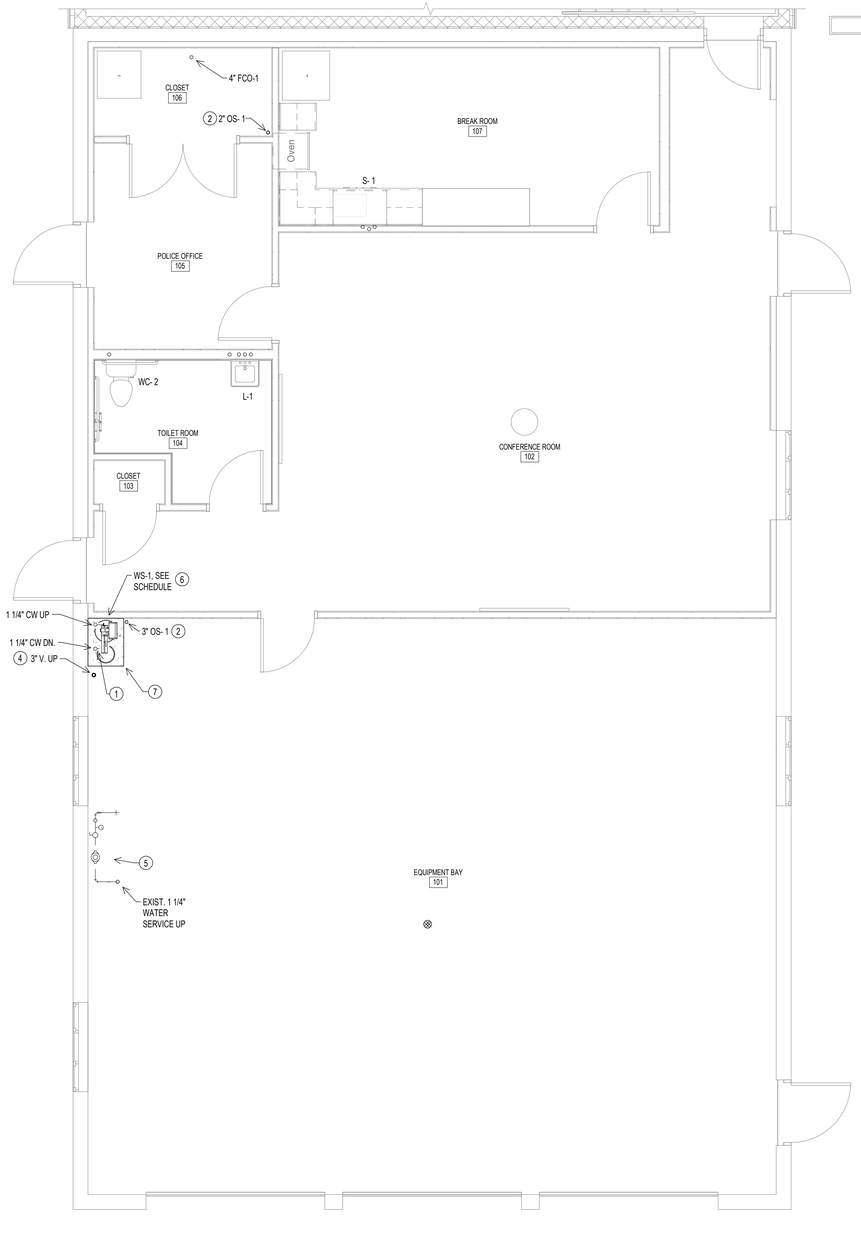
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2 P306 MAIN FLOOR PLAN - REMODEL
1/4" = 1'-0"
UPPER LEVEL
PHASE II
NORTH




1 P306 MAIN FLOOR PLAN - REMODEL
1/4" = 1'-0"
LOWER LEVEL
PHASE II
NORTH

| # | PLUMBING NOTES - P306 |
|---|---|
| 1 | CONNECTION POINT OF PLUMBING PIPING. FIELD VERIFY EXISTING PIPE LOCATION, SIZE, INVERT ELEVATION, MATERIAL AND CONDITION OF PIPE BEFORE PROCEEDING WITH ANY WORK. |
| 2 | COORDINATE LOCATION OF OPEN SITE DRAIN WITH MECHANICAL CONTRACTOR. |
| 3 | EXTEND NEW SANITARY VENT THRU ROOF THRU EXISTING ROOF OPENING. PRIME AND PAINT VENT THRU ROOF. COORDINATE COLOR WITH ARCHITECT AND GENERAL CONTRACTOR. |
| 4 | 3" VENT OFF OF EXISTING SANITARY PIPING BELOW FLOOR, EXTEND VENT UP TO VENT THRU ROOF. |
| 5 | 1" WATER METER. WATER METER INSTALLED UNDER PHASE I CONSTRUCTION. |
| 6 | WATER SOFTENER SYSTEM PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR. COORDINATE ELECTRICAL CONNECTIONS WITH ELECTRICAL CONTRACTOR. CONNECT TO 1 1/4" ROUGH-INS INSTALLED UNDER PHASE I CONSTRUCTION. |
| 7 | 4" HIGH CONCRETE PAD BY GENERAL CONTRACTOR. COORDINATE SIZE AND LOCATION OF CONCRETE PAD WITH GENERAL CONTRACTOR. |


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PLUMBING MAIN FLOOR
PLAN - REMODEL - ABOVE
FLOOR - PHASE II

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P306

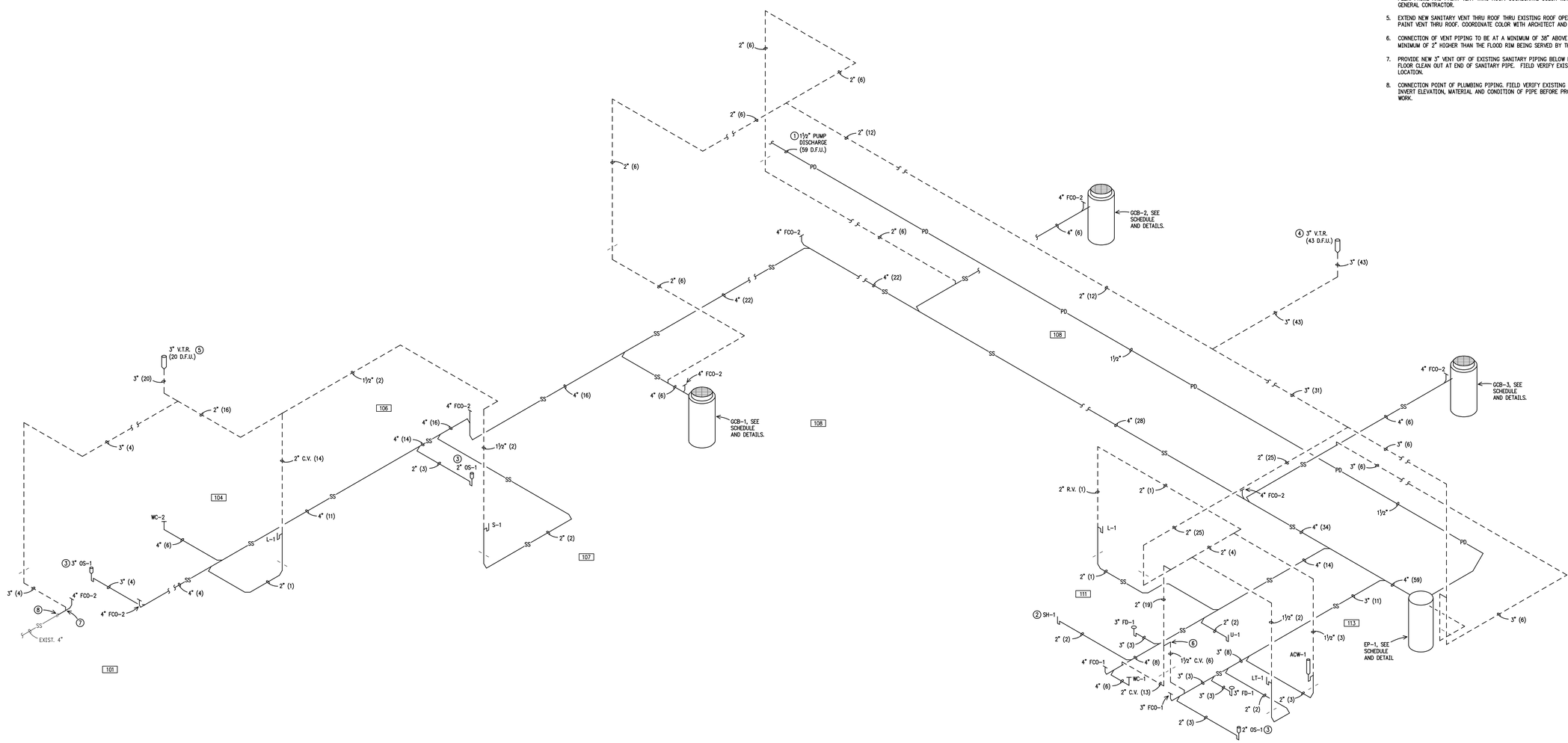
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PLUMBING NOTES:

1. CONTINUATION OF SANITARY SEWER PIPING BY CIVIL CONTRACTOR. PLUMBING CONTRACTOR SHALL COORDINATE PIPE SIZE AND INVERT ELEVATION AND LOCATION WITH CIVIL CONTRACTOR.
2. COORDINATE LOCATION OF SHOWER DRAIN WITH GENERAL CONTRACTOR.
3. COORDINATE LOCATION OF OPEN SITE DRAIN WITH MECHANICAL CONTRACTOR.
4. SANITARY VENT THRU ROOF SHALL BE INSTALLED AT A MAXIMUM OF 5'-0" OF ROOF PEEK. PRIME AND PAINT VENT THRU ROOF. COORDINATE COLOR WITH ARCHITECT AND GENERAL CONTRACTOR.
5. EXTEND NEW SANITARY VENT THRU ROOF THRU EXISTING ROOF OPENING. PRIME AND PAINT VENT THRU ROOF. COORDINATE COLOR WITH ARCHITECT AND GENERAL CONTRACTOR.
6. CONNECTION OF VENT PIPING TO BE AT A MINIMUM OF 38" ABOVE FINISH FLOOR AT A MINIMUM OF 2" HIGHER THAN THE FLOOD RIM BEING SERVED BY THE VENT SYSTEM.
7. PROVIDE NEW 3" VENT OFF OF EXISTING SANITARY PIPING BELOW FLOOR. PROVIDE NEW FLOOR CLEAN OUT AT END OF SANITARY PIPE. FIELD VERIFY EXISTING SANITARY PIPE LOCATION.
8. CONNECTION POINT OF PLUMBING PIPING. FIELD VERIFY EXISTING PIPE LOCATION, SIZE, INVERT ELEVATION, MATERIAL AND CONDITION OF PIPE BEFORE PROCEEDING WITH ANY WORK.




**1 / P401 WASTE & VENT SCHEMATIC**
NO SCALE


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PLUMBING
WASTE AND VENT
SCHEMATIC

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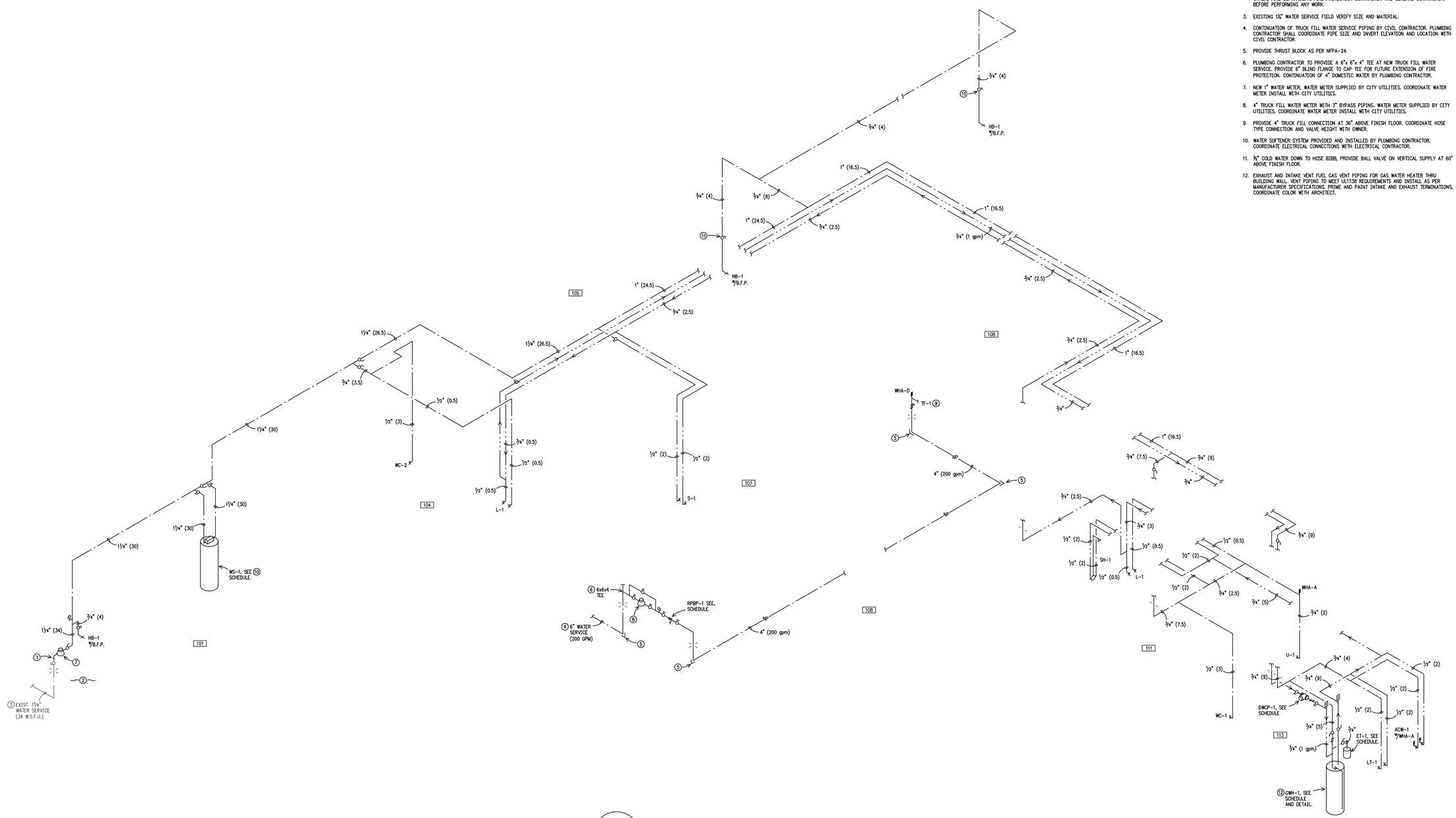
P401

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## 1 WATER PIPING SCHEMATIC
P402 NO SCALE

### PLUMBING NOTES:

1. CONNECTION POINT OF PLUMBING PIPING. FIELD VERIFY EXISTING PIPE LOCATION, SIZE, INVERT ELEVATION, MATERIAL AND CONDITION OF PIPE BEFORE PROCEEDING WITH ANY WORK.
2. COORDINATE SHUT DOWN OF BUILDING WATER SERVICE TO PERFORM THIS WORK WITH OWNER, FIRE DEPARTMENT, FIRE PROTECTION CONTRACTOR AND GENERAL CONTRACTOR. BEFORE PERFORMING ANY WORK.
3. EXISTING 1¼" WATER SERVICE FIELD VERIFY SIZE AND MATERIAL.
4. CONTINUATION OF TRUCK FILL WATER SERVICE PIPING BY CIVIL CONTRACTOR. PLUMBING CONTRACTOR SHALL COORDINATE PIPE SIZE AND INVERT ELEVATION AND LOCATION WITH CIVIL CONTRACTOR.
5. PROVIDE THRUST BLOCK AS PER NFPA-24.
6. PLUMBING CONTRACTOR TO PROVIDE A 6"x 6"x 4" TEE AT NEW TRUCK FILL WATER SERVICE. PROVIDE 6" BLIND FLANGE TO CAP TEE FOR FUTURE EXTENSION OF FIRE PROTECTION. CONTINUATION OF 4" DOMESTIC WATER BY PLUMBING CONTRACTOR.
7. NEW 1" WATER METER, WATER METER SUPPLIED BY CITY UTILITIES. COORDINATE WATER METER INSTALL WITH CITY UTILITIES.
8. 4" TRUCK FILL WATER METER WITH 3" BYPASS PIPING. WATER METER SUPPLIED BY CITY UTILITIES. COORDINATE WATER METER INSTALL WITH CITY UTILITIES.
9. PROVIDE 4" TRUCK FILL CONNECTION AT 36" ABOVE FINISH FLOOR. COORDINATE HOSE TYPE CONNECTION AND VALVE HEIGHT WITH OWNER.
10. WATER SOFTENER SYSTEM PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR. COORDINATE ELECTRICAL CONNECTIONS WITH ELECTRICAL CONTRACTOR.
11. ¾" COLD WATER DOWN TO HOSE BIBB, PROVIDE BALL VALVE ON VERTICAL SUPPLY AT 60" ABOVE FINISH FLOOR.
12. EXHAUST AND INTAKE VENT FUEL GAS VENT PIPING FOR GAS WATER HEATER THRU BUILDING WALL. VENT PIPING TO MEET UL1738 REQUIREMENTS AND INSTALL AS PER MANUFACTURER SPECIFICATIONS. PRIME AND PAINT INTAKE AND EXHAUST TERMINATIONS, COORDINATE COLOR WITH ARCHITECT.


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PLUMBING WATER PIPING SCHEMATIC

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ISSUE DATE: AUGUST 12, 2026

P402

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## WATER CALCULATIONS - DOMESTIC WATER

INFORMATION REQUIRED TO CALCULATE WATER SERVICE SIZE

1. DEMAND OF BUILDING IN GALLONS PER MINUTE. WSFU's 34 = (GPM) 22
2. DIFFERENCE IN ELEVATION FROM MAIN OR EXTERNAL PRESSURE TANK TO BUILDING CONTROL VALVE. (FEET) 10
3. SIZE OF WATER METER (WHEN METER IS REQUIRED) (INCHES) 1
4. DEVELOPED LENGTH FROM MAIN OR EXTERNAL PRESSURE TANK TO BUILDING CONTROL VALVE. (FEET) 85
5. LOW PRESSURE AT x MAIN IN STREET __INTERNAL PRESSURE TANK __AFTER P.R.V. (PSI) 74

CALCULATE WATER SERVICE PRESSURE LOSS

6. LOW PRESSURE AT MAIN IN STREET OR EXTERNAL PRESSURE TANK. (VALUE OF # 5 ABOVE) (PSI) 74
7. DETERMINE PRESSURE LOSS DUE TO FRICTION IN 1¼ INCH DIAMETER WATER SERVICE (WATER SERVICE PIPING MATERIAL IS TYPE 'K' COPPER) – SUBTRACT VALUE OF "7" 3.7 SUBTOTAL 70.3
8. DETERMINE PRESSURE LOSS DUE TO ELEVATION, (MULTIPLY THE VALUE OF # 2 ABOVE BY .434) – SUBTRACT VALUE OF "8" 4.3
9. AVAILABLE PRESSURE AFTER THE BLDG. CONTROL VALVE. (ENTER IN "B" BELOW) SUBTOTAL 66

CALCULATE THE PRESSURE AVAILABLE FOR UNIFORM LOSS (VALUE OF "A")

B. AVAILABLE PRESSURE AFTER THE BLDG. CONTROL VALVE. (FROM "9" ABOVE) VALUE OF "B" 66
C. PRESSURE LOSS OF WATER METER (WHEN METER IS REQUIRED) – SUBTRACT VALUE OF "C" 2.8 SUBTOTAL 63.2
D. PRESSURE AT CONTROLLING FIXTURE. (CONTROLLING FIXTURE IS WATER CLOSET) – SUBTRACT VALUE OF "D" 25 SUBTOTAL 38.2
E. DIFFERENCE IN ELEVATION BETWEEN THE BUILDING CONTROL VALVE AND THE CONTROLLING FIXTURE IN FEET 3 x .434 PS/FT. – SUBTRACT VALUE OF "E" 1.3 SUBTOTAL 36.9
F. PRESSURE LOSS DUE TO WATER TREATMENT DEVICES, INSTANTANEOUS WATER HEATERS AND BACKFLOW PREVENTS WHICH SERVE THE CONTROLLING FIXTURE. (PRESSURE LOSS DUE TO WATER SOFTENER) – SUBTRACT VALUE OF "F" 15 SUBTOTAL 21.9
G. DEVELOPED LENGTH FROM BUILDING CONTROL VALVE TO CONTROLLING FIXTURE IN FEET 180 x 1.5 (WATER DISTRIBUTION PIPING MATERIAL IS TYPE 'L' COPPER) – DIVIDE BY VALUE OF "G" 270 SUBTOTAL .081 MULTIPLY BY 100
A. PRESSURE AVAILABLE FOR UNIFORM LOSS – "A" = 8.1

## WATER CALCULATIONS - TRUCK FILL

INFORMATION REQUIRED TO CALCULATE WATER SERVICE SIZE

1. DEMAND OF BUILDING IN GALLONS PER MINUTE. WSFU's – = (GPM) 200
2. DIFFERENCE IN ELEVATION FROM MAIN OR EXTERNAL PRESSURE TANK TO BUILDING CONTROL VALVE. (FEET) 10
3. SIZE OF WATER METER (WHEN METER IS REQUIRED) (INCHES) 3
4. DEVELOPED LENGTH FROM MAIN OR EXTERNAL PRESSURE TANK TO BUILDING CONTROL VALVE. (FEET) 135
5. LOW PRESSURE AT x MAIN IN STREET __INTERNAL PRESSURE TANK __AFTER P.R.V. (PSI) 74

CALCULATE WATER SERVICE PRESSURE LOSS

6. LOW PRESSURE AT MAIN IN STREET OR EXTERNAL PRESSURE TANK. (VALUE OF # 5 ABOVE) (PSI) 74
7. DETERMINE PRESSURE LOSS DUE TO FRICTION IN 6 INCH DIAMETER WATER SERVICE (WATER SERVICE PIPING MATERIAL IS DUCTILE TIRON) – SUBTRACT VALUE OF "7" – SUBTOTAL 74
8. DETERMINE PRESSURE LOSS DUE TO ELEVATION, (MULTIPLY THE VALUE OF # 2 ABOVE BY .434) – SUBTRACT VALUE OF "8" 4.3
9. AVAILABLE PRESSURE AFTER THE BLDG. CONTROL VALVE. (ENTER IN "B" BELOW) SUBTOTAL 69.7

CALCULATE THE PRESSURE AVAILABLE FOR UNIFORM LOSS (VALUE OF "A")

B. AVAILABLE PRESSURE AFTER THE BLDG. CONTROL VALVE. (FROM "9" ABOVE) VALUE OF "B" 69.7
C. PRESSURE LOSS OF WATER METER (WHEN METER IS REQUIRED) – SUBTRACT VALUE OF "C" 7.6 SUBTOTAL 62.1
D. PRESSURE AT CONTROLLING FIXTURE. (CONTROLLING FIXTURE IS TRUCK FILL) – SUBTRACT VALUE OF "D" 15 SUBTOTAL 47.1
E. DIFFERENCE IN ELEVATION BETWEEN THE BUILDING CONTROL VALVE AND THE CONTROLLING FIXTURE IN FEET 3 x .434 PS/FT. – SUBTRACT VALUE OF "E" 1.3 SUBTOTAL 36.9
F. PRESSURE LOSS DUE TO WATER TREATMENT DEVICES, INSTANTANEOUS WATER HEATERS AND BACKFLOW PREVENTS WHICH SERVE THE CONTROLLING FIXTURE. (PRESSURE LOSS DUE TO RP2 VALVE) – SUBTRACT VALUE OF "F" 10 SUBTOTAL 35.8
G. DEVELOPED LENGTH FROM BUILDING CONTROL VALVE TO CONTROLLING FIXTURE IN FEET 60 x 1.5 (WATER DISTRIBUTION PIPING MATERIAL IS DUCTILE IRON) – DIVIDE BY VALUE OF "G" 90 SUBTOTAL .397 MULTIPLY BY 100
A. PRESSURE AVAILABLE FOR UNIFORM LOSS – "A" = 39.7

## EJECTOR PUMP SCHEDULE

| UNIT NO. | FT. HD. | G.P.M. | R.P.M. | H.P. | SOLID SIZE | DISCH. SIZE | ELECTRICAL CHAR. | CONTROL PANEL | BASIN DIA x DEEP | BASIN COVER | REPR. MFGR. & MODEL NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EP-1 | 48' | 46 | 3,450 | 2 | 1¼" | 1¼" | 200/230 Volt 1 Phase, 14.5 Amp | DUPLEX (1) | JACKEL (2) FWB36X84-FGAF-D | JACKEL JC36HD STEEL COVER 1/4" | ZOELLER E1820 (2 PUMPS) | PROVIDE UNIONS, CHECK AND GATE VALVES IN BASIN. |
| | | | | | | | | | | | | |

(1) DUPLEX PANEL ALDERON 2012294, 4 FLOAT SYSTEM, ALDERON G0271D230H20 PUMP BREAKERS.
(2) 36"x 84" FIBERGLASS BASIN WITH JACKEL JKS PUMP RAILS SYSTEM AND JACKEL JC36H STEEL COVER.
(3) CONTROL PANEL TO BE LOCATED ON WALL NEXT TO BASIN, COORDINATE WITH OWNER AND GENERAL CONTRACTOR.

## GARAGE CATCH BASIN SCHEDULE

| UNIT NO. | ROOM NO. | SIZE DIA. x HT. | FRAME MFR. (OR EQUAL) | GRATE TYPE | BEARING SURFACE | LOCAL VENT | REPR. MFGR. & MODEL NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|
| GCB-1 | 108 | 36" x 48" | NEENAH R-2540-A | 'D' | 36" | NO | TOPP INDUSTRIES FB36X48 | |
| GCB-2 | 108 | 36" x 48" | NEENAH R-2540-A | 'D' | 36" | NO | TOPP INDUSTRIES FB36X48 | |
| GCB-3 | 108 | 36" x 48" | NEENAH R-2540-A | 'D' | 36" | NO | TOPP INDUSTRIES FB36X48 | |
| | | | | | | | | |

## WATER SOFTENER SCHEDULE

| UNIT NO. | SERVICE | MAXIMUM FLOW RATE | BACKWASH FLOW RATE | DESIGN FLOW RATE | MEDIA BED | BACKWASH CONTROL | REPR. MFGR. & MODEL NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|
| WS-1 | DOMESTIC | 22 gpm | 3" gpm | 15 gpm | 1 cu. ft. SYNTHETIC RESIN | ELECTRONIC METERED | WATER CONTROL CORP. XF-30-MR | (1) (2) (3) (4) |
| | | | | | | | | |

(1) 7 TO 10 psi LOSS AT AVERAGE FLOW.
(2) MAXIMUM EXCHANGE CAPACITY OF 30,000 GRAINS PER CUBIC FOOT WHEN REGENERATED WITH 13 lb OF SALT PER CUBIC FOOT.
(3) PROVIDE POWER FOR SINGLE UNIT AT 120 VOLT, 60Hz, 1.3 Amps.
(4) BRINE TANK 18" DIA. x 33" TALL.

## REDUCED PRESSURE BACKFLOW PREVENTER

| UNIT NO. | ROOM NO. | SIZE | WATER TEMPERATURE | PRESSURE DROP | REPR. MFGR. & MODEL NO. | ACCESSORIES | REMARKS |
|---|---|---|---|---|---|---|---|
| RPBP-1 | 108 | 4" | 40° F. | 8 psig AT 200 gpm | WATTS LF957 | WATTS 957AG AIR GAP CONNECTION | – SERVING TRUCK FILL. (1) |
| | | | | | | | |

(1) PROVIDE WYE STRAINERS UPSTREAM OF BACKFLOW VALVES.

## GAS FIRED WATER HEATER SCHEDULE

| UNIT NO. | ROOM NO. | STORAGE CAPACITY | RECOVERY | MAX. L,W,T. | FUEL TYPE | BTU INPUT PER HOUR | T,P,R. VALVE | REPR. MFGR. & MODEL NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| GWH-1 | 113 | 55 GALLON | 136 GPH at 80°F Rise | 120° F | NATURAL GAS | 100,000 | FURNISHED | HTP PH100-55 | (1) (2) (3) |
| | | | | | | | | | |

(1) INSTALL UL1738 INTAKE AND EXHAUST PIPING AS PER MANUFACTURER SPECIFICATIONS.
(2) INSTALL GAS REGULATOR AS PER WATER HEATER AND REGULATORS MANUFACTURERS SPECIFICATIONS.
(3) INSTALL NEUTRALIZER KIT ON CONDENSATE DRAIN.

## EXPANSION TANK SCHEDULE

| UNIT NO. | ROOM NO. | TANK SIZE | DIA. | HEIGHT | SYSTEM CONN. | REPR. MFGR. & MODEL NO. | REMARKS |
|---|---|---|---|---|---|---|---|
| ET-1 | 113 | 4.5 GALLON | 11" | 13" | ¾" | WATTS PLT-12 | – PROVIDE BALL VALVE ON WATER CONNECTION. |
| | | | | | | | |

## CIRCULATING PUMP SCHEDULE

| UNIT NO. | ROOM NO. | SERVICE | TYPE | G.P.M. | HEAD | WATTS | ELECTRICAL CHARACTERISTICS | R.P.M. | REPR. MFGR. & MODEL NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| DWCP-1 | 113 | DOMESTIC WATER | STAINLESS STEEL | 1 | 3' | 28 | 115/1 | VARIABLE | BELL & GOSSETT e3-4V/BSPYZ | (1) (2) (3) |
| | | | | | | | | | | |

(1) PROVIDE CHECK VALVE IN HOT WATER RETURN WITH BALANCE VALVE.
(2) PROVIDE THERMOMETER AT PUMP.
(3) INTERLOK PUMP IWTH AQUASTAT CONTROLLER AND TIME CLOCK OVERRIDE.


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Project No.: 26042
Drawn By: HM
Designed By: HM



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WYOCENA FIRE DEPARTMENT
ADDITION
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WYOCENA, WI 53969

PLUMBING SCHEDULES

REVISIONS:

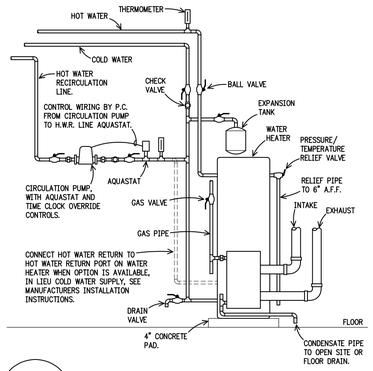
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ISSUE DATE:
AUGUST 12, 2026

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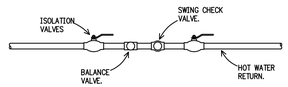
L&P PROJECT # 26057


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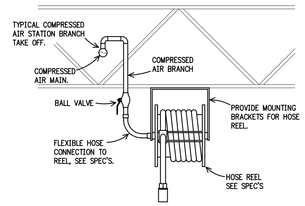

## 11 P502 GAS WATER HEATER DETAIL

NO SCALE — SEALED COMBUSTION UNIT w/HOT WATER RETURN



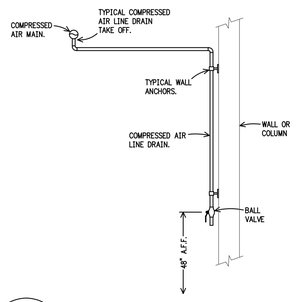

## 12 P502 BALANCE VALVE DETAIL

NO SCALE — DOMESTIC HOT WATER RETURN



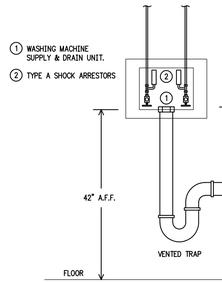

## 13 P502 AIR HOSE REEL DETAIL

NO SCALE — ROOF STRUCTURAL MOUNTED



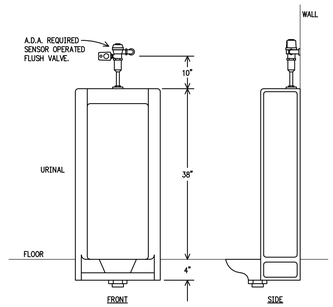

## 14 P502 AIR LINE DRAIN DETAIL

NO SCALE



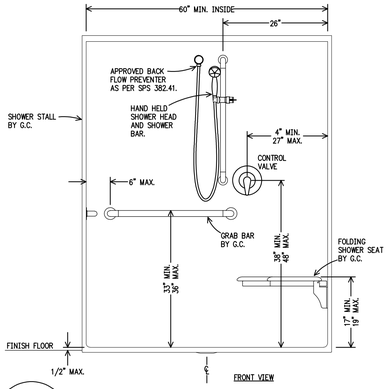

## 8 P502 LAUNDRY UNIT DETAIL

NO SCALE



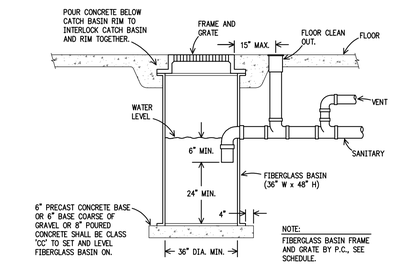

## 9 P502 URINAL FLUSH VALVE HEIGHT DETAIL

NO SCALE — A.D.A. FLOOR SET



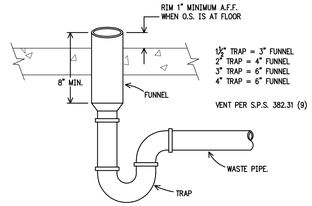

## 10 P502 ACCESSIBLE SHOWER DETAIL

NO SCALE — (ADA ROLL-IN SHOWER)



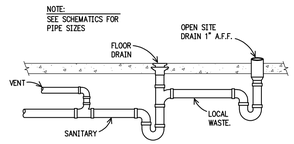

## 4 P502 GARAGE CATCH BASIN DETAIL

NO SCALE — (FIBERGLASS BASIN)



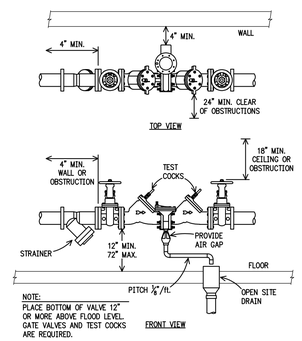

## 5 P502 OPEN SITE DRAIN DETAIL

NO SCALE



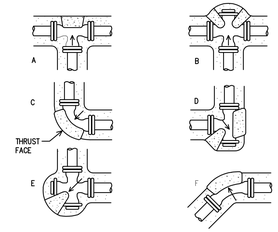

## 6 P502 LOCAL WASTE DETAIL

NO SCALE




## 7 P502 CROSS CONNECTION CONTROL DETAIL

NO SCALE — REDUCED PRESSURE BACKFLOW DEVICE



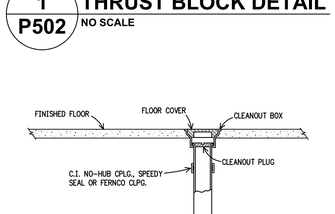

SIZE OF THRUST FACE FOR 150 PSI PIPE IN 4000# LOAD BEARING SOIL

| PIPE SIZE | A | B (EACH) | C | D (EACH) | E | F |
|---|---|---|---|---|---|---|
| 4" | 12"x12" | 12"x12" | 12"x12" | 12"x12" | 12"x12" | 12"x12" |
| 6" | 12"x12" | 12"x12" | 18"x18" | 12"x12" | 18"x18" | 12"x12" |
| 8" | 18"x18" | 12"x12" | 24"x24" | 15"x15" | 24"x24" | 18"x18" |
| 10" | 24"x24" | 15"x15" | 30"x30" | 18"x18" | 30"x30" | 24"x24" |
| 12" | 30"x30" | 18"x18" | 36"x36" | 24"x24" | 36"x36" | 30"x30" |
| 14" | 36"x36" | 24"x24" | 39"x39" | 24"x24" | 36"x36" | 36"x36" |
| 16" | 36"x36" | 24"x24" | 45"x45" | 27"x27" | 45"x45" | 36"x36" |

IN SOFT CLAY OR SAND INCREASE BY 50%

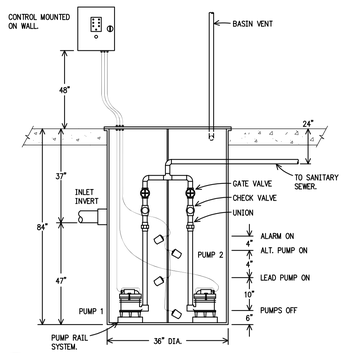
## 1 P502 THRUST BLOCK DETAIL

NO SCALE




## 2 P502 CLEANOUT DETAIL

NO SCALE — (INTERIOR)




## 3 P502 DUPLEX SUMP PUMP DETAIL

NO SCALE — (GRINDER PUMP)


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PLUMBING DETAILS

REVISIONS:

| NO. | DATE |
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ISSUE DATE: AUGUST 12, 2026

P502

L&P PROJECT # 26057


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Project No.: 26042
Drawn By: HM
Designed By: HM



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# MECHANICAL (HVAC) LEGEND

## GENERAL SYMBOLS

- THERMOSTAT
- SPACE SENSOR (AS INDICATED)
- HUMIDISTAT
- WALL SWITCH OR TIMER
- DEMOLITION KEYNOTES
- NEW OR REMODEL KEYNOTES
- MECHANICAL EQUIPMENT TAG
- MECHANICAL EQUIPMENT (NEW)
- MECHANICAL EQUIPMENT (EXISTING)
- MECHANICAL EQUIPMENT (DEMO)
- INDICATES DIRECTION OF AIR FLOW
- CEILING DIFFUSER
- XXXX CD-# / # CFM — CEILING DIFFUSER SIZE AND TYPE / AIR VOLUME
- RETURN/EXHAUST/TRANSFER GRILLE
- SUPPLY GRILLE OR REGISTER
- SIDEWALL RETURN/EXHAUST/TRANSFER GRILLE
- SIDEWALL SUPPLY/TRANSFER GRILLE
- _x_ XX-# / # CFM — GRILLE SIZE AND TYPE / AIR VOLUME
- D.G. — DOOR GRILLE (BY GENERAL TRADE)
- U.C. — DOOR UNDERCUT (BY GENERAL TRADE)
- ROOM NAME / ### — INDICATES ROOM NAME / INDICATES ROOM NUMBER
- SECTION CUT
- CALLOUT BUBBLE
- CALLOUT REFERENCE DETAIL NUMBER / CALLOUT REFERENCE SHEET NUMBER
- REVISION NUMBER
- REVISION CLOUD

## EQUIPMENT ABBREVIATIONS

| | |
|---|---|
| AF | AIR FILTER |
| DF | DESTRATIFICATION FAN |
| DHP | DUCTLESS HEAT PUMP |
| EF | EXHAUST FAN |
| ERP | ELECTRIC RADIANT CEILING PANEL |
| ERV | ENERGY RECOVERY VENTILATOR |
| GRDs | GRILLES, REGISTERS, AND DIFFUSERS |
| L | LOUVER |
| R | RANGE HOOD |
| RH | ROOF HOOD |
| UH | UNIT HEATER |

## DUCTWORK SYMBOLS

- RADIUS ELBOW
- MITERED ELBOW W/ TURNING VANES
- SUPPLY/OUTSIDE/MIXED AIR DUCT DOWN
- SUPPLY/OUTSIDE/MIXED AIR DUCT UP
- RETURN/EXHAUST/TRANSFER AIR DUCT DOWN
- RETURN/EXHAUST/TRANSFER AIR DUCT UP
- ROUND SUPPLY/OUTSIDE/MIXED AIR DUCT DOWN
- ROUND SUPPLY/OUTSIDE/MIXED AIR DUCT UP
- ROUND RETURN/EXHAUST/TRANSFER AIR DUCT DOWN
- ROUND RETURN/EXHAUST/TRANSFER AIR DUCT UP
- DUCT OFFSET (AS INDICATED)
- ACOUSTIC DUCT LINER
- FLEXIBLE DUCT
- SQUARE/RECTANGULAR DUCT BREAK
- MANUAL BALANCING (VOLUME) DAMPER
- CONTROL DAMPER W/ ACTUATOR
- ROUND DUCT OR 2-LINE PIPE BREAK

## DUCTWORK SYSTEM ABBREVIATIONS

| | |
|---|---|
| EA | EXHAUST AIR |
| MA | MIXED AIR (OA + RA) |
| OA | OUTSIDE AIR |
| RA | RETURN AIR |
| SA | SUPPLY AIR |
| TA | TRANSFER AIR |

## GRD ABBREVIATIONS

| | |
|---|---|
| CD | CEILING DIFFUSER |
| EG | EXHAUST GRILLE |
| LD | LINEAR DIFFUSER |
| RG | RETURN GRILLE |

## PIPING SYMBOLS

- PIPE DOWN
- PIPE UP
- TEE - BOTTOM CONNECTION
- TEE - TOP CONNECTION
- PIPE ELEVATION CHANGE

## PIPING SYSTEM ABBREVIATIONS

- AC — REFRIGERANT
- CD — CONDENSATE DRAIN
- G — GAS (NATURAL)

## GENERAL ABBREVIATIONS

| | | | |
|---|---|---|---|
| A | AMPERE | HP | HORSEPOWER |
| A/C | AIR CONDITIONING | HTG. | HEATING |
| A.D. | ACCESS DOOR | HVAC | HEATING, VENTILATION AND AIR CONDITIONING |
| A.F.F. | ABOVE FINISH FLOOR | HW | HOT WATER |
| A.F.G. | ABOVE FINISH GRADE | HZ | HERTZ (FREQUENCY) |
| A.F.R. | ABOVE FINISHED ROOF | I.A. | INDOOR AIR |
| AMPS | AMPERES | ID | INSIDE DIAMETER |
| AUX | AUXILIARY | IN. | INCH OR INCHES |
| AVG | AVERAGE | KW | KILOWATT |
| B.I. | BACKWARD INCLINE | LAT | LEAVING AIR TEMPERATURE |
| B.D.D. | BACKDRAFT DAMPER | LBS | POUNDS |
| BHP | BRAKE HORSEPOWER | LDB | LEAVING DRY BULB TEMPERATURE |
| BSMT | BASEMENT | LWB | LEAVING WET BULB TEMPERATURE |
| BTU | BRITISH THERMAL UNIT | LWT | LEAVING WATER TEMPERATURE |
| BTUH | BRITISH THERMAL UNIT PER HOUR | MAT | MIXED AIR TEMPERATURE |
| CAP. | CAPACITY | MAX. | MAXIMUM |
| CFM | CUBIC FEET PER MINUTE | MBH | THOUSAND BTUH |
| CL | CENTERLINE | MCA | MINIMUM CIRCUIT AMPS |
| CLG. | COOLING | MECH. | MECHANICAL |
| CEIL. | CEILING | MFG. | MANUFACTURER |
| C.O. | CLEANOUT | MOCP | MAXIMUM OVER CURRENT PROTECTION |
| CONT. | CONTINUE | M.O.D. | MOTOR OPERATED DAMPER |
| CU FT. | CUBIC FEET | MTD. | MOUNTED |
| CU IN. | CUBIC INCHES | NIC | NOT IN CONTRACT |
| ΔP | CHANGE IN PRESSURE | NOM. | NOMINAL |
| ΔT | CHANGE IN TEMPERATURE | NPS | NOMINAL PIPE SIZE |
| ° | DEGREE | NTS | NOT TO SCALE |
| DB | DRY BULB | OAT | OUTSIDE AIR TEMPERATURE |
| DC | DIRECT CURRENT | O.A. | OUTSIDE AIR |
| DDC | DIRECT DIGITAL CONTROLS | O.B.D. | OPPOSED BLADE DAMPER |
| DIA | DIAMETER | O.E.D. | OPEN ENDED DUCT |
| DISC. | DISCONNECT | O.C. | ON CENTER |
| DN. | DOWN | OD | OUTSIDE DIAMETER |
| DP | DIFFERENTIAL PRESSURE | PD | PRESSURE DROP |
| DWG. | DRAWING | PSI | POUNDS PER SQUARE INCH |
| DWPT | DEWPOINT | PSIG | PSI GAUGE |
| DX | DIRECT EXPANSION (REFRIGERATION) | ø | ROUND DIAMETER |
| EAT | ENTERING AIR TEMPERATURE | RAT | RETURN AIR TEMPERATURE |
| EDB | ENTERING DRY BULB TEMPERATURE | RM. | ROOM |
| EFF. | EFFICIENCY | RPM | REVOLUTIONS PER MINUTE |
| EL. | ELEVATION | SAT | SUPPLY AIR TEMPERATURE |
| EWB | ENTERING WET BULB TEMPERATURE | SD | SMOKE DAMPER |
| ESP | EXTERNAL STATIC PRESSURE | SQ. FT. | SQUARE FEET |
| ETR | EXISTING TO REMAIN | SHT. | SHEET |
| EWT | ENTERING WATER TEMPERATURE | SM | SMOKE DETECTOR |
| EX | EXISTING | SP | STATIC PRESSURE |
| EXH. | EXHAUST | SPEC. | SPECIFICATION |
| °F | DEGREES FAHRENHEIT | SPD. | SPEED |
| F.C. | FORWARD CURVED | S.S. | STAINLESS STEEL |
| F.D. | FIRE DAMPER | STD. | STANDARD |
| FLA | FULL LOAD AMPS | T.A. | THROW AWAY |
| FLR. | FLOOR | TEMP. | TEMPERATURE |
| FPI | FINS PER INCH | TSP | TOTAL STATIC PRESSURE |
| FPM | FEET PER MINUTE | TSTAT | THERMOSTAT |
| FPS | FEET PER SECOND | TYP. | TYPICAL |
| FT | FEET | V | VOLTS |
| GAL | GALLONS | V.D. | VOLUME (BALANCING) DAMPER |
| GPH | GALLONS PER HOUR | VEL | VELOCITY |
| GPM | GALLONS PER MINUTE | WB | WET BULB |
| GRV | GRAVITY RELIEF VENT | W/ | WITH |
| HD | HEAD (FEET) | Z.D. | ZONE DAMPER |

# MECHANICAL RENOVATION NOTES:

1. THE DEMOLITION PLAN HAS BEEN PREPARED TO ASSIST THE M.C. IN DETERMINING THE SCOPE OF WORK TO BE INCLUDED IN THIS PROJECT. IT IS NOT INTENDED TO BE A COMPLETE INDICATION OF ALL WORK REQUIRED TO COMPLETE THE PROJECT. THE M.C. SHALL REVIEW DRAWINGS AND SPECIFICATIONS INCLUDING DEMOLITION SHOWN FOR OTHER TRADES, AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS, IN ORDER TO DETERMINE THE SCOPE OF DEMOLITION WORK.
2. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
3. REFER TO DIVISION 1, GENERAL REQUIREMENTS, CUTTING AND PATCHING FOR ALL CUTTING AND PATCHING.
4. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
5. ALL REMOVED ITEMS THAT THE OWNER WANTS SHALL BE REMOVED AND TURNED OVER TO THE OWNER AT DESIGNATED STORAGE SPACE ON SITE. ALL REMAINING ITEMS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.
6. THE INSTALLING CONTRACTOR SHALL VERIFY ALL STRUCTURAL REQUIREMENTS FOR SUPPORTED EQUIPMENT AND COMPONENTS OF ANY KIND WITH THE BUILDING AND/OR SUPPORT STRUCTURE DESIGNER PRIOR TO INSTALLATION. APEX ENGINEERING DOES NOT PROVIDE STRUCTURAL DESIGN SERVICES.

# CONTRACTOR ABBREVIATION KEY

| ABBR: | CONTRACTOR: |
|---|---|
| E.C. | ELECTRICAL CONTRACTOR |
| F.P.C. | FIRE PROTECTION CONTRACTOR |
| G.C. | GENERAL CONTRACTOR |
| M.C. | MECHANICAL CONTRACTOR |
| P.C. | PLUMBING CONTRACTOR |

**LINE TYPE KEY**

- NEW WORK BY MECHANICAL CONTRACTOR ( DARK SOLID LINE)
- NEW WORK BY OTHERS AND/OR EXISTING TO REMAIN (LIGHT SOLID LINE)
- EXISTING TO BE REMOVED BY MECHANICAL CONTRACTOR (DARK SHORT DASHED LINE)

DRYER DUCT NOTES:
CLOTHES DRYER DUCT REQUIREMENTS PER IMC 504: MINIMUM 28 GAGE, SMOOTH INTERIOR FINISH, EACH VERTICAL RISER SHALL BE PROVIDED WITH A MEANS FOR CLEANOUT, TERMINATE AT ROOF CAP/JACK WITH BACKDRAFT DAMPER, NO SCREEN ALLOWED AT TERMINATION, DO NOT CONNECT DUCTS WITH SHEET METAL SCREWS OR FASTENERS THAT WILL OBSTRUCT EXHAUST FLOW OR THAT PROTRUDE INTO THE INSIDE OF THE DUCT MORE THAN 1/8", SHALL NOT BE CONNECTED TO VENT CONNECTOR, VENT OR CHIMNEY, SHALL NOT EXTEND INTO OR THROUGH DUCTS OR PLENUMS, SUPPORT DUCTS AT 4' INTERVALS, INSERT END OF DUCT SHALL EXTEND INTO THE ADJOINING DUCT OR FITTING IN DIRECTION OF AIRFLOW. TRANSITION DUCTS USED TO CONNECT DRYER TO THE EXHAUST DUCT SYSTEM SHALL BE A SINGLE LENGTH THAT IS LISTED AND LABELED IN ACCORDANCE WITH UL 2158A. TRANSITION DUCTS SHALL BE A MAXIMUM OF 8' IN LENGTH AND SHALL NOT BE CONCEALED WITHIN CONSTRUCTION. THE EQUIVALENT LENGTH OF THE EXHAUST DUCT SHALL BE IDENTIFIED ON A PERMANENT LABEL OR TAG LOCATED WITHIN 6' OF EACH EXHAUST CONNECTION. DRYER EXHAUST DUCTS SHALL BE PROTECTED WITH PROTECTIVE SHIELD PLATES WHERE NAILS OR SCREWS FROM FINISH OR OTHER WORK ARE LIKELY TO PENETRATE THE DRYER EXHAUST DUCT. SHIELD PLATES SHALL BE PLACED ON THE FINISHED FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4" BETWEEN THE DUCT AND THE FINISHED FACE OF THE FRAMING MEMBER. PROTECTIVE SHIELD PLATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF 0.062" AND EXTEND A MINIMUM OF 2" ABOVE SOLE PLATES AND BELOW TOP PLATES.

# MECHANICAL SHEET INDEX



| SHEET # | SHEET NAME |
|---|---|
| M101 | MECHANICAL GENERAL INFO SHEET |
| M201 | MECHANICAL FLOOR PLANS - DEMOLITION PHASE 1 & 2 |
| M301 | MECHANICAL FLOOR PLAN - REMODEL |
| M302 | MECHANICAL FLOOR PLAN - ADDITION |
| M303 | MECHANICAL FLOOR PLAN - GAS PIPING |
| M401 | MECHANICAL SCHEDULES |
| M402 | MECHANICAL DETAILS |
| M403 | MECHANICAL GAS SCHEMATIC |



# GENERAL MECHANICAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH NATIONAL, STATE, & LOCAL CODES; AS WELL AS THE NATIONALLY RECOGNIZED TESTING AND APPROVAL AGENCIES.
2. AIR BALANCING SHALL BE DONE IN ACCORDANCE WITH THE SMACNA MANUAL FOR BALANCING AND ADJUSTMENT OF AIR HANDLING SYSTEMS. PROVIDE A FINAL REPORT TO ENGINEER FOR REVIEW.
3. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
4. PROVIDE THE OWNER WITH TRAINING AND WITH OPERATION AND MAINTENANCE MANUALS FOR THE FURNISHED EQUIPMENT PRIOR TO COMPLETION OF WORK.
5. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, EQUIPMENT SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY VERIFY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
6. THE INSTALLING CONTRACTOR SHALL VERIFY REQUIREMENTS FOR SUPPORTED EQUIPMENT AND COMPONENTS OF ANY KIND WITH THE BUILDING AND/OR SUPPORT STRUCTURE DESIGNER PRIOR TO INSTALLATION. APEX ENGINEERING DOES NOT PROVIDE STRUCTURAL DESIGN SERVICES.
7. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES WITH ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OF EQUIPMENT ORDERS.
8. ALL CONTROLS SHALL BE PROPERLY TESTED, ADJUSTED AND CALIBRATED BEFORE WORK IS COMPLETED. MOUNT THERMOSTATS AT 48" A.F.F. PROVIDE INSULATED BASE WHERE MOUNTED ON AN EXTERIOR WALL.
9. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY BETWEEN DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
10. DO NOT BLOCK TUBE/COIL PULL OR EQUIPMENT SERVICE CLEARANCES.
11. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
12. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
13. MAINTAIN WORKING CLEARANCES AT ELECTRICAL EQUIPMENT SUCH AS ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES AND DISCONNECTS PER NEC REQUIREMENTS.
14. CONTRACTOR IS RESPONSIBLE FOR ALL COST ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
15. MAINTAIN A MINIMUM OF 10' BETWEEN ROOF EDGE AND ALL ROOFTOP EQUIPMENT, INCLUDING EXHAUST FANS. IF 10' IS NOT MAINTAINED, M.C. SHALL INSTALL GUARD RAIL AS REQUIRED BY IMC 304.11.
16. ALL EQUIPMENT, DUCTWORK, & PIPING SHALL BE KEPT CLEAN FROM DIRT & DEBRIS. DO NOT ALLOW THE INSIDE OF DUCT & LINER TO BE EXPOSED DURING CONSTRUCTION.
17. ALL DUCTWORK SHALL BE CONSTRUCTED TO SMACNA STANDARDS IN ACCORDANCE WITH THE APPROPRIATE PRESSURE CLASSIFICATION.
18. DUCTWORK SIZE LISTED ON PLANS ARE INTERNAL FREE AREA DIMENSIONS. THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED.
19. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES.
20. COORDINATE GRILLE/DIFFUSER & ACCESS PANEL LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL LIGHT FIXTURES, LIGHT FIXTURE SUPPORT RODS AND FIRE SPRINKLER HEADS FOR FREE INTERFERENCE.
21. PIPING CONNECTIONS WITH UNIONS OR FLANGES SHALL BE MADE TO COILS OR TUBE BUNDLES TO FACILITATE REMOVAL OF THAT ITEM WITHOUT DISTURBING THE BRANCH VALVES AND/OR PIPING.
22. ALL ROOF CURBS SHALL BE 18" TALL UNLESS OTHERWISE NOTED ON PLANS. ALL ROOF CURBS FOR OUTSIDE AIR INTAKE SHALL BE 30" TALL UNLESS OTHERWISE NOTED ON PLANS.
23. MANUAL VOLUME DAMPERS SHALL BE INSTALLED AT EACH BRANCH TAKE-OFF FROM MAIN SUPPLY, RETURN, & EXHAUST DUCTS. DAMPERS SHALL BE LOCATED AS CLOSE TO THE BRANCH TAKE-OFF AS POSSIBLE & INSTALLED TO ALLOW FOR EASY ACCESS.
24. VOLUME DAMPERS INSTALLED IN EXTERNALLY INSULATED DUCTWORK SHALL BE PROVIDED WITH EXTENDED OPERATOR HANDLE TO OUTSIDE OF INSULATION WITH SHEET METAL STANDOFF FOR SUPPORT.
25. DUCT SIZE TO DIFFUSERS, REGISTERS AND GRILLES SHALL BE SAME SIZE AS NECK SIZE UNLESS NOTED OR DETAILED OTHERWISE.
26. ALL MITERED RECTANGULAR/SQUARE ELBOWS SHALL HAVE AIR TURNING VANES AS SPECIFIED.
27. NO PIPING SHALL BE INSTALLED ABOVE ELECTRICAL EQUIPMENT, UNLESS OTHERWISE NOTED. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL EQUIPMENT LOCATIONS. COORDINATE WITH ELECTRICAL TRADE FOR EXACT LOCATIONS.
28. ALL SIDEWALL GRILLES SHALL BE ALIGNED VERTICALLY AND HORIZONTALLY WHEREVER POSSIBLE, UNLESS OTHERWISE NOTED.
29. OUTSIDE AIR INTAKES SHALL BE A MINIMUM DISTANCE OF 10'-0" FROM ANY EXHAUST/RELIEF OUTLET, FLUE, GAS OR PLUMBING VENT. COORDINATE WITH RESPECTIVE TRADES.
30. SEAL ALL EXTERIOR OPENINGS WATER TIGHT.
31. M.C. TO THOROUGHLY CLEAN ALL EXPOSED DUCTWORK FOR PAINTING AS SPECIFIED. PAINTING BY PAINTING CONTRACTOR.
32. OPENINGS REQUIRED BY THE M.C. ARE BY THE M.C. UNLESS OTHERWISE INDICATED.
33. CONTRACTOR TO REVIEW ARCHITECTURAL PLANS FOR LOCATIONS OF ALL RATED WALLS, CEILINGS AND ASSEMBLIES SO THAT ALL RATINGS ARE MAINTAINED.
34. ALL GAS PIPING INSTALLATIONS SHALL COMPLY WITH NFPA 54-2021, IFGC.


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MECHANICAL GENERAL
INFO SHEET

REVISIONS:

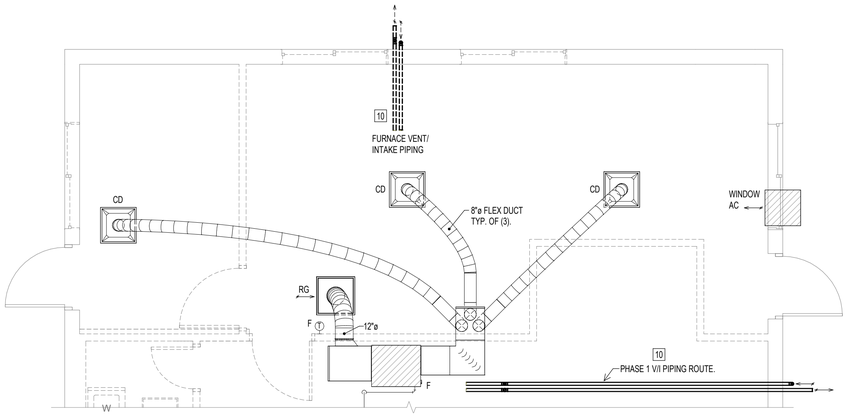
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M101

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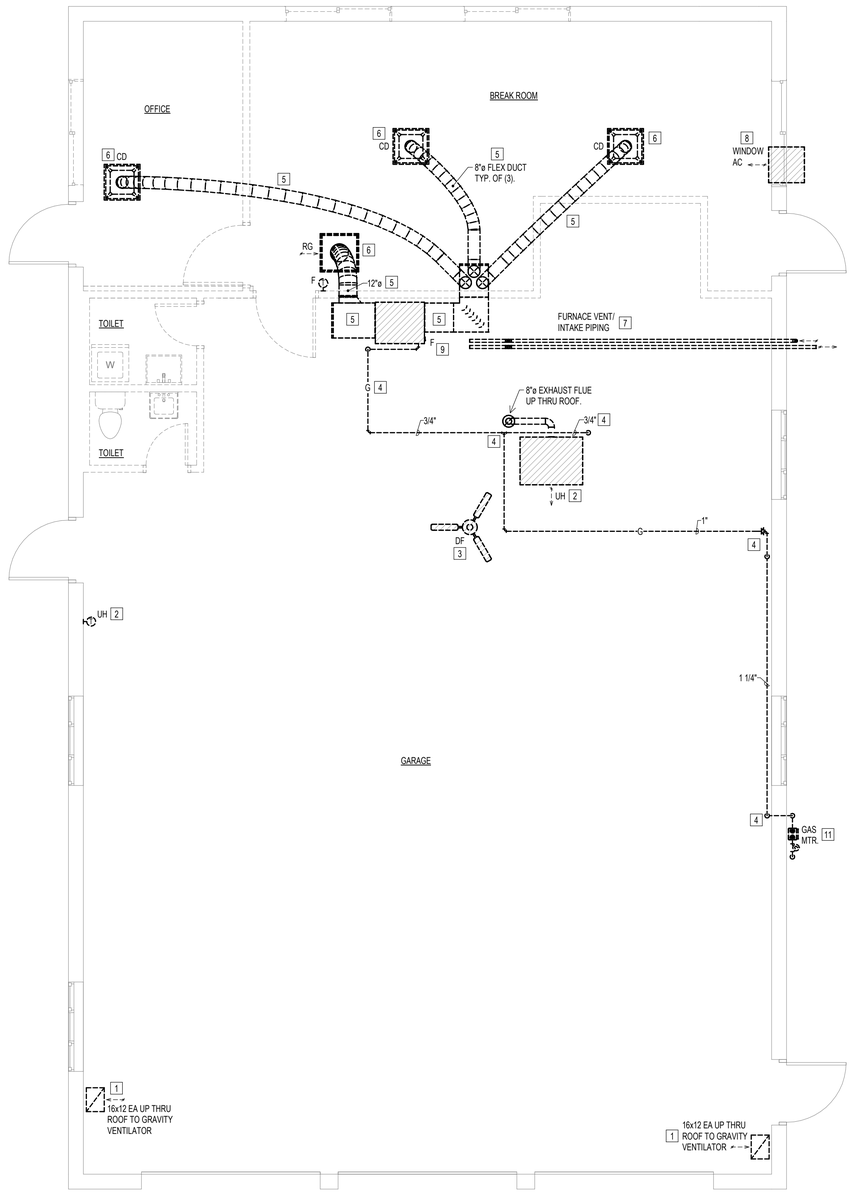

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2 / M201 MECHANICAL FLOOR PLAN - DEMOLITION
1/4" = 1'-0" (PHASE 1)

NORTH

| # | DEMO KEYNOTES - M201 |
|---|---|
| 1 | REMOVE DUCTWORK COMPLETE THRU ROOF INCLUDING GRAVITY VENTILATOR. |
| 2 | DISCONNECT AND REMOVE UNIT HEATER COMPLETE INCLUDING CONTROLS, VENTING, AND ACCESSORIES. |
| 3 | REMOVE DESTRAT FAN COMPLETE INCLUDING CONTROLS AND ACCESSORIES. |
| 4 | REMOVE GAS PIPING AND ACCESSORIES COMPLETE TO GAS METER. |
| 5 | REMOVE DUCTWORK. |
| 6 | REMOVE GRILLE/REGISTER/DIFFUSER. |
| 7 | REMOVE FURNACE VENT/INTAKE PIPING COMPLETE. WALL PATCHING BY G.C. |
| 8 | REMOVE WINDOW AC UNIT COMPLETE INCLUDING CONTROLS AND ACCESSORIES. |
| 9 | DISCONNECT AND REMOVE FURNACE COMPLETE INCLUDING CONTROLS, VENTING, AND ACCESSORIES. |
| 10 | REMOVE FURNACE VENT/INTAKE PIPING TO FURNACE COMPLETE. WALL PATCH BY G.C. VENT/INTAKE PIPING TO BE EXTENDED FROM FURNACE TO THRU WALL TERMINATION IN PHASE 1. INSTALL PER MFG. INSTRUCTIONS. FLASH AND SEAL WALL PENETRATION WATER TIGHT. |
| 11 | GAS METER REMOVAL AND RELOCATION BY GAS UTILITY. M.C. TO COORINDATE. |




1 / M201 MECHANICAL FLOOR PLAN - DEMOLITION
1/4" = 1'-0" (PHASE 2)

NORTH


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MECHANICAL FLOOR
PLANS - DEMOLITION
PHASE 1 & 2

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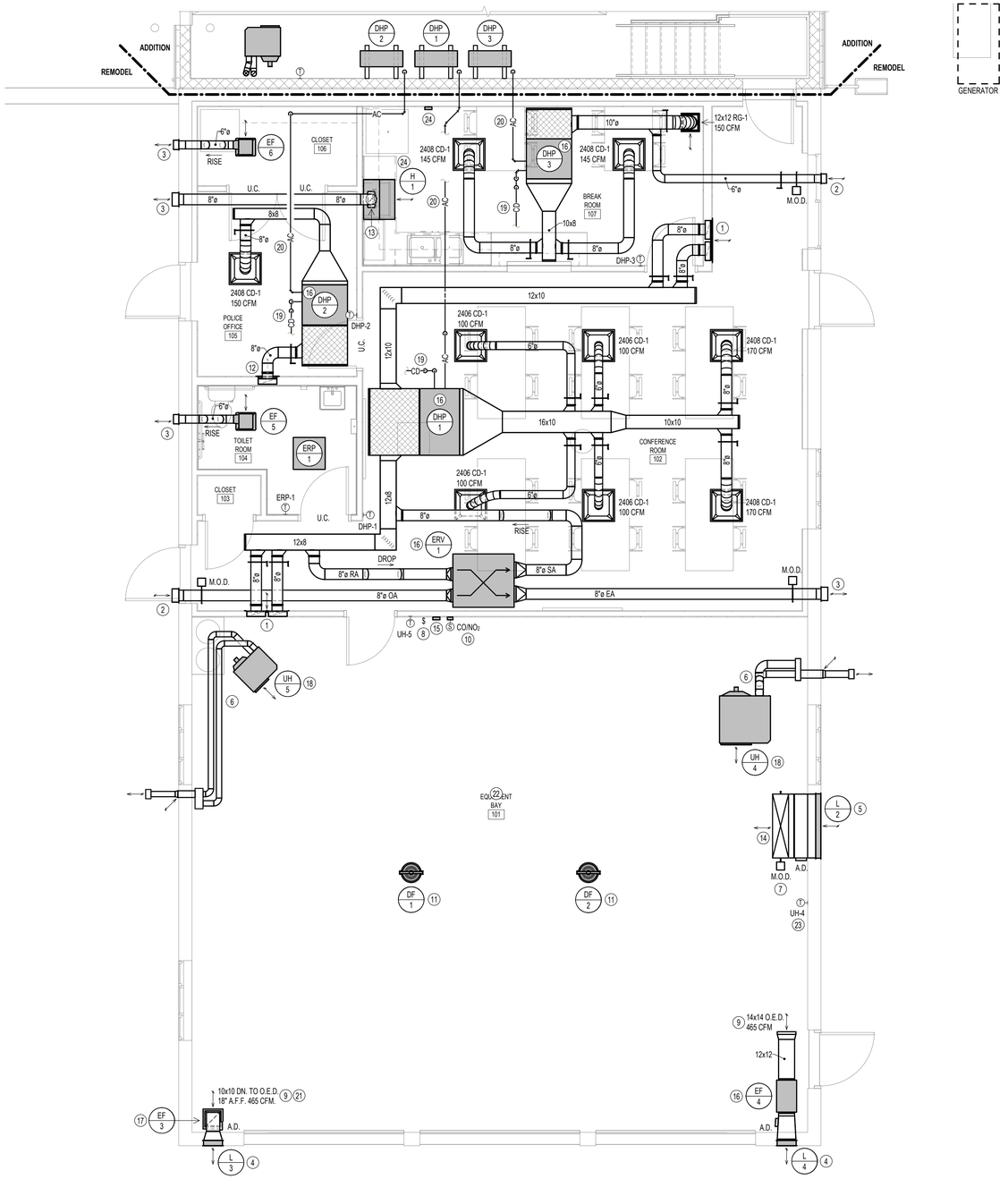
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1 M301 MECHANICAL FLOOR PLAN - REMODEL

1/4" = 1'-0"

NORTH

## REMODEL KEYNOTES - M301

| # | |
|---|---|
| 1 | (2) 14x4 R.A. DUCTS DN. IN WALL TO 32x8 RG-2. MOUNT GRILLE 6" A.F.F. OR ABOVE ARCHITECTURAL BASE. 280 CFM. |
| 2 | INTAKE HOOD WITH SCREEN. PAINT TO MATCH WALL. SEE DETAIL. |
| 3 | WALL CAP WITH SCREEN AND B.D.D. PAINT TO MATCH WALL. SEE DETAIL. |
| 4 | LOCATE LOUVER APPROXIMATELY 8'-0" A.F.F. COORDINATE WITH G.C. SEE DETAIL. |
| 5 | LOCATE LOUVER APPROXIMATELY 7'-6" A.F.F. COORDINATE WITH G.C. SEE DETAIL. |
| 6 | CONCENTRIC VENT/INTAKE PIPING THRU WALL TO MFG. APPROVED TERMINATION. FLASH AND SEAL WALL OPENING WATER TIGHT. SEE DETAIL. |
| 7 | INSULATED BLADE TYPE DAMPER. INTERLOCK WITH EF-3 & 4 OPERATION. |
| 8 | DF-1 & 2 CONTROLLER. |
| 9 | PROVIDE FLANGE OR HEMMED EDGES WITH SCREEN AT O.E.D. |
| 10 | GAS DETECTION CONTROL PANEL EQUAL TO AMERICAN GAS SAFETY (AGS) MODEL AGSGDPPS PARKSAFE CONTROLLER. PROVIDE REMOTE SENSORS/DETECTORS EQUAL TO AGS MODEL GM100 IN ROOM 101 AND VERIFY QUANTITY TO APPROPRIATELY COVER 1,300 SQ. FT. CONTROLLER SHALL MONITOR THE CO/NO2 SENSORS IN ROOM 101 AND SHALL INITIATE OPERATION OF EF-3 & 4 AND L-2 M.O.D. INTO OCCUPIED MODE UPON A DETECTION OF CO AT 35 PPM. NO2 DEVICES SHALL INITIATE OPERATION AT 1 PPM. |
| 11 | SECURE FAN TO STRUCTURE. MAINTAIN ALL MANUFACTURER AND CODE REQUIRED CLEARANCES. |
| 12 | 14x4 R.A. DN. IN WALL TO 14x4 RG-2. MOUNT GRILLE 6" A.F.F. OR ABOVE ARCHITECTURAL BASE. 150 CFM. |
| 13 | COORDINATE DUCTWORK WITH CABINETRY. |
| 14 | 48x12 O.A. DUCT UP TO O.E.D. MAINTAIN A MINIMUM OF 12" CLEAR TO CEILING. |
| 15 | DIGITAL TIME CLOCK FOR OPERATION OF EF-3 & 4 AND L-2 M.O.D. SYSTEM TO RUN A MINIMUM OF 5 HOURS IN EVERY 24 HOUR PERIOD. |
| 16 | SUPPORT LEVEL FROM STRUCTURE WITH (4) HANGERS AND VIBRATION ISOLATION. |
| 17 | SECURE FAN TO WALL APPROXIMATELY 4'-6" A.F.F. SEE DETAIL. |
| 18 | HANG LEVEL FROM STRUCTURE WITH (4) HANGERS APPROXIMATELY 9'-0" A.F.F. MOUNT A MINIMUM OF 12" ABOVE TOP OF OVERHEAD DOOR OR PROTECT AS REQUIRED BY CODE. |
| 19 | ROUTE CD PIPING TO NEAREST OPEN SITE DRAIN. DRAIN BY P.C. PITCH PIPING AS REQUIRED AND INSTALL PER MFG. INSTRUCTIONS. |
| 20 | ROUTE AC PIPING TO APPROPRIATE UNIT. INSULATE SUCTION AND LIQUID LINE. SUPPORT EVERY 5' O.C. AND COVER EXPOSED PIPING WITH PVC COVER. PROVIDE SLEEVE AT PIPE PENETRATION TO APPARATUS BAY AND SEAL AS REQUIRED. |
| 21 | PROVIDE 20 GAUGE DUCT DROP MINIMUM UP TO 10' ABOVE FLOOR. SECURE DUCT TO WALL. |
| 22 | BALANCE EQUIPMENT BAY WITH A NEGATIVE PRESSURIZATION WITH RESPECT TO THE OCCUPIED/OFFICE AREA. BALANCE OCCUPIED/OFFICE AREA WITH A POSITIVE PRESSURIZATION WITH RESPECT TO THE EQUIPMENT BAY. |
| 23 | INSTALL ON INSULATED BASE. |
| 24 | PROVIDE REMOTE LOW VOLTAGE WALL SWITCH FOR ADA COMPLIANCE. VERIFY EXACT LOCATION FOR INSTALLATION WITH ARCHITECT AND OWNER. |


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MECHANICAL FLOOR
PLAN - REMODEL

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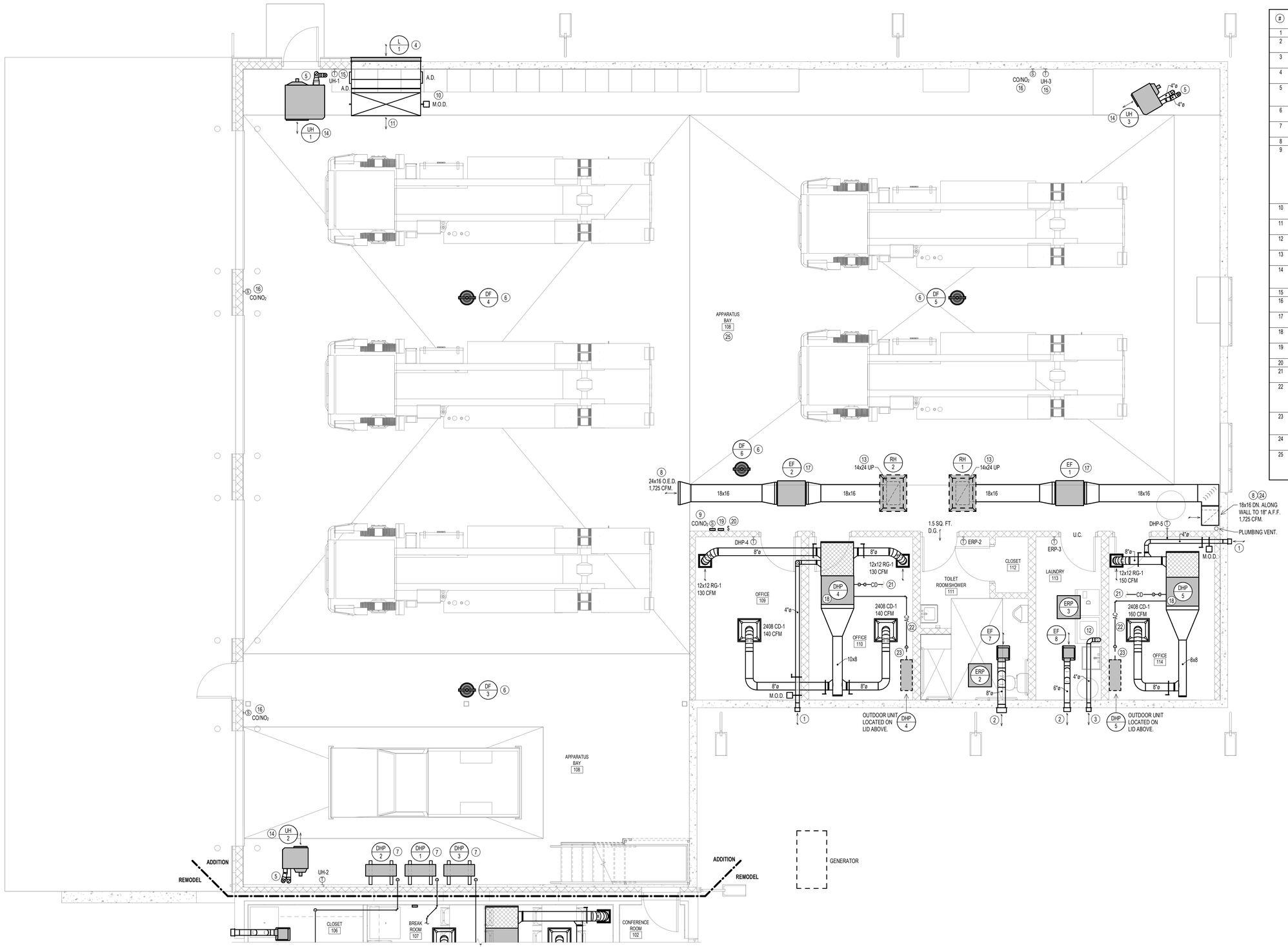
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M301

L&P PROJECT # 26057


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## REMODEL KEYNOTES - M302

| # | |
|---|---|
| 1 | INTAKE HOOD WITH SCREEN. PAINT TO MATCH WALL. SEE DETAIL. |
| 2 | WALL CAP WITH SCREEN AND B.D.D. PAINT TO MATCH WALL. SEE DETAIL. |
| 3 | DRYER WALL CAP WITH B.D.D. PAINT TO MATCH WALL. SEE DETAIL AND DRYER DUCT NOTES ON GENERAL INFO SHEET. |
| 4 | LOCATE LOUVER APPROX. 10'-3" A.F.F. COORDINATE WITH G.C. SEE DETAIL. |
| 5 | CONCENTRIC VENT/INTAKE PIPING UP THRU ROOF TO MFG. APPROVED TERMINATION. FLASH AND SEAL ROOF OPENING WATER TIGHT. SEE DETAIL. |
| 6 | SECURE FAN TO STRUCTURE. MAINTAIN ALL MANUFACTURER AND CODE REQUIRED CLEARANCES. |
| 7 | MOUNT DHP FROM WALL ON MFGR. PROVIDED WALL BRACKETS. LOCATE 10' A.F.F. MAINTAIN ALL MFGR. REQUIRED CLEARANCES. |
| 8 | PROVIDE FLANGE OR HEMMED EDGES WITH SCREEN AT O.E.D. |
| 9 | GAS DETECTION CONTROL PANEL EQUAL TO AMERICAN GAS SAFETY (AGS) MODEL AGSGDPPS PARKSAFE CONTROLLER. PROVIDE REMOTE SENSORS/DETECTORS EQUAL TO AGS MODEL GM100 IN ROOM 108 AND VERIFY QUANTITY TO APPROPRIATELY COVER 4,600 SQ. FT. CONTROLLER SHALL MONITOR THE CO/NO2 SENSORS IN ROOM 108 AND SHALL INITIATE OPERATION OF EF-1 & 2 AND L-1 M.O.D. INTO OCCUPIED MODE UPON A DETECTION OF CO AT 35 PPM. NO2 DEVICES SHALL INITIATE OPERATION AT 1 PPM. |
| 10 | INSULATED BLADE TYPE DAMPER. INTERLOCK WITH EF-1 & 2 OPERATION. |
| 11 | 72x24 O.A. DUCT UP TO O.E.D. MAINTAIN A MINIMUM OF 12" CLEAR TO CEILING. |
| 12 | 4"ø DRYER DUCT DOWN TO DRYER. SEE DRYER NOTES ON GENERAL INFO. SHEET. |
| 13 | E.A. DUCT UP THRU ROOF TO ROOF HOOD. SEE DETAIL. SEAL PENETRAION WATERTIGHT. |
| 14 | HANG LEVEL FROM STRUCTURE WITH (4) HANGERS APPROXIMATELY 12'-3" A.F.F. MOUNT A MINIMUM OF 12" ABOVE TOP OF OVERHEAD DOOR OR PROTECT AS REQUIRED BY CODE. |
| 15 | INSTALL ON INSULATED BASE. |
| 16 | REMOTE CO/NO2 SENSOR. PROVIDE ADDITIONAL SENSORS AS REQUIRED TO PROVIDE PROPER COVERAGE IN ROOM 108. |
| 17 | SUPPORT LEVEL FROM STRUCTURE WITH (4) HANGERS AND VIBRATION ISOLATION AS HIGH AS POSSIBLE. |
| 18 | SUPPORT LEVEL FROM STRUCTURE WITH (4) HANGERS AND VIBRATION ISOLATION ABOVE CEILING SPACE. |
| 19 | DIGITAL TIME CLOCK FOR OPERATION OF EF-1 & 2 AND L-1 M.O.D. SYSTEM TO RUN A MINIMUM OF 5 HOURS IN EVERY 24 HOUR PERIOD. |
| 20 | DF-3,4,5 & 6 CONTROLLER. |
| 21 | ROUTE CD PIPING TO NEAREST OPEN SITE DRAIN. DRAIN BY P.C. PITCH PIPING AS REQUIRED AND INSTALL PER MFG. INSTRUCTIONS. |
| 22 | ROUTE AC PIPING TO APPROPRIATE UNIT. INSULATE SUCTION AND LIQUID LINE. SUPPORT EVERY 5' O.C. AND COVER EXPOSED PIPING WITH PVC COVER. PROVIDE SLEEVE AT PIPE PENETRATION TO APPARATUS BAY AND SEAL AS REQUIRED. |
| 23 | DHP OUTDOOR UNIT LOCATED ON LID ABOVE. ANCHOR DHP TO LID WITH NEOPRENE PADS. MAINTAIN REQUIRED CLEARANCES ON EACH SIDE OF UNIT. |
| 24 | PROVIDE 20 GAUGE DUCT DROP MINIMUM UP TO 10' ABOVE FLOOR. SECURE DUCT TO WALL. |
| 25 | BALANCE APPARATUS BAY WITH A NEGATIVE PRESSURIZATION WITH RESPECT TO THE OCCUPIED/OFFICE AREA. BALANCE OCCUPIED/OFFICE AREA WITH A POSITIVE PRESSURIZATION WITH RESPECT TO THE APPARATUS BAY. |

1 M302 MECHANICAL FLOOR PLAN - ADDITION
1/4" = 1'-0"

NORTH


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MECHANICAL FLOOR PLAN - ADDITION

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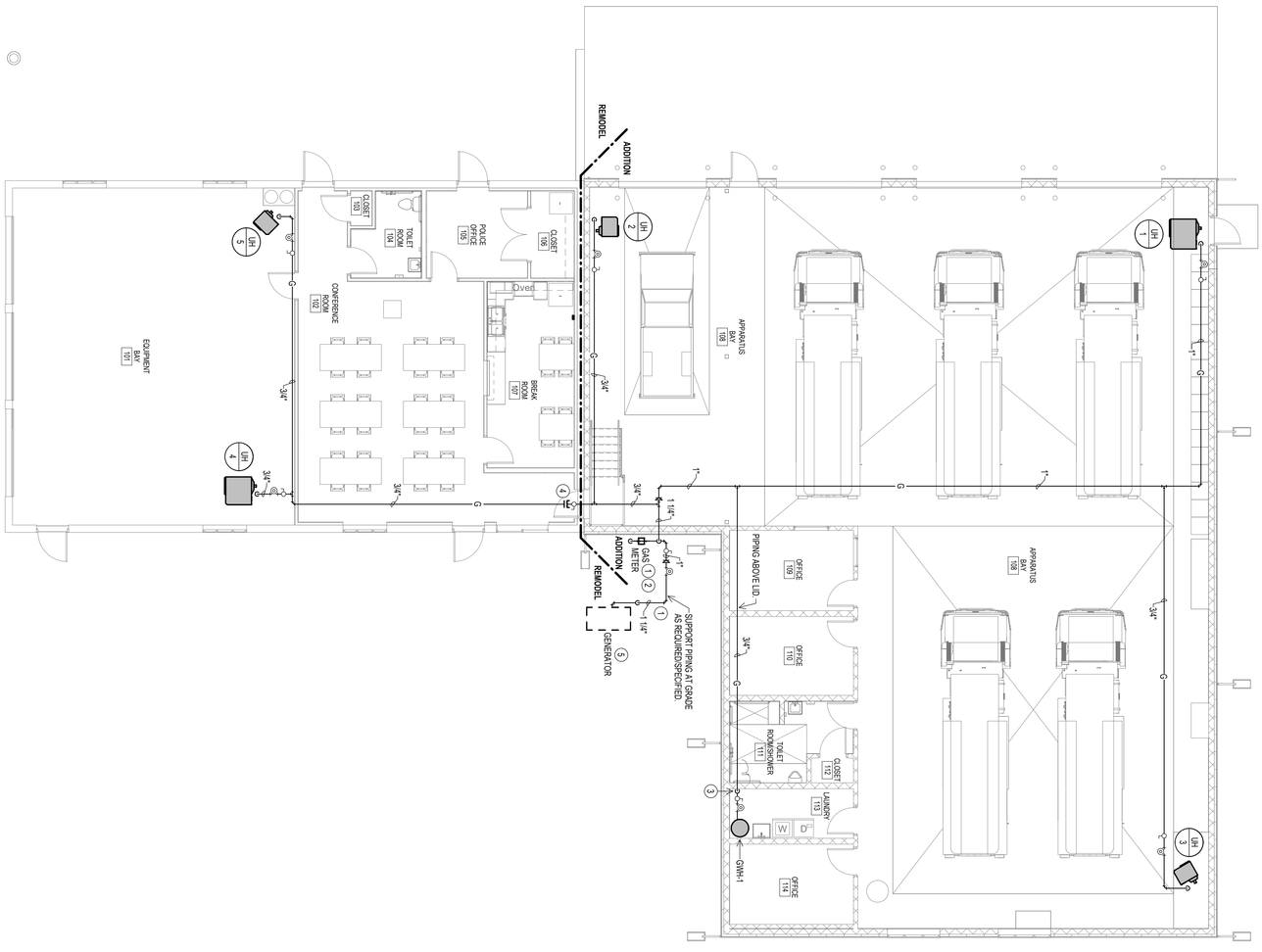
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M302

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1 M303 MECHANICAL FLOOR PLAN - GAS PIPING
1/8" = 1'-0"

NORTH

**REMODEL KEYNOTES - M303**

1. PRIME AND PAINT EXTERIOR GAS PIPING. GAS PIPING SHALL BE FREE OF RUST AND DIRT BEFORE PRIMING. COORDINATE COLOR WITH ARCHITECT AND O.C.
2. SEE GAS SCHEMATIC FOR REQUIRED COORDINATION WITH GAS UTILITY.
3. GAS PIPING DOWN THRU LID TO WATER HEATER. SLEEVE AND SEAL.
4. PIPE PENETRATION WATER TIGHT.
5. PROVIDE 90 DEGREE ELBOW WITH PIPE AND CAP EXTEND AS SHOWN TO ENTER HEATERS FOR PHASE 2 WORK.
6. COORDINATE EXACT LOCATION WITH APPLICABLE CODES AND MAINTAIN ALL REQUIRED CLEARANCES.

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| | | | |
|---|---|---|---|
| MECHANICAL FLOOR PLAN - GAS PIPING | WYOCENA FIRE DEPARTMENT ADDITION<br>284 S COLUMBUS STREET<br>WYOCENA, WI 53969 | **LIEN & PETERSON ARCHITECTS, INC**<br>4675 ROYAL DRIVE — PO BOX 925<br>EAU CLAIRE, WI — 54701<br>TELEPHONE — 715-835-7500<br>EMAIL — admin@2dlp.com | ARCHITECTS L&P ENGINEERS |

ISSUE DATE: AUGUST 12, 2026
M303
L&P PROJECT # 26057
REVISIONS: NO | DATE

# AIR TO AIR ENERGY RECOVERY UNIT SCHEDULE

| PLAN SYMBOL | EXHAUST FAN | | | SUPPLY FAN | | | WINTER (I.A.) | | SUMMER (I.A.) | | WINTER (O.A.) | | SUMMER (O.A.) | | WHEEL EFF. | | CORE MAT'L | MCA | ELEC. CHAR. | MANUFACTURER & MODEL NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CFM | EXT. S.P. | HP | CFM | EXT. S.P. | HP | D.B.T. (°F) | R.H. (%) | D.B.T. (°F) | R.H. (%) | D.B.T. (°F) | W.B.T. (°F) | D.B.T. (°F) | W.B.T. (°F) | WINT. (%) | SUMM. (%) | | | | |
| ERV-1 | 180 | 0.5" | 1/4 | 180 | 0.5" | 1/4 | 70 | 20 | 75 | 50 | -15 | -15 | 90 | 75 | 67 | 61 | [1] | 6.4 | 120/1 | GREENHECK MINICORE-5-F-VG [2] |

*[1] POLYMER CORE.*
*[2] PROVIDE MOTORIZED INTAKE AND EXHAUST DAMPERS AND INTERLOCK WITH OCCUPIED MODE OF DHP-1. DAMPERS SHALL BE OPEN AND FANS OPERATING DURING OCCUPIED MODE. DAMPERS CLOSED AND FANS OFF DURING UNOCCUPIED MODE. PROVIDE UNIT WITH TIMED EXHAUST FOR DEFROST.*

# RANGE HOOD SCHEDULE

| PLAN SYMBOL | ROOM NO. | DESCRIPTION | DIMENSIONS (L"xW") | CFM | SONES | ELEC. CHAR. | MANUFACTURER & MODEL NO. | CONTROL | ACCESSORIES/NOTES |
|---|---|---|---|---|---|---|---|---|---|
| H-1 | 107 | DUCTED RANGE HOOD WITH FILTER AND LIGHT. | 30x20x6 | 200 | 1.5 | 120/1 | BROAN GLA230SS | [1] | [2] |

*[1] PROVIDE MFG. MODEL: HAWRK5 LOW VOLTAGE WIRING AND REMOTE WALL SWITCH FOR CONTROL AND ADA COMPLIANCE.*
*[2] VERIFY MODEL PROVIDED WITH OWNER AND ARCHITECT PRIOR TO ORDERING.*

# LOUVER SCHEDULE

| PLAN SYMBOL | ROOM NO. | DIMENSIONS (W"xH") | CFM | FREE AREA (SQ. FT.) | VELOCITY (FPM) | FLANGE | CONSTR. | DAMPER | | MANUFACTURER & MODEL NO. | ACCESSORIES/NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | TYPE | MOTOR VOLT. | | |
| L-1 | 107 | 72x40 | 3,450 | 11.58 | 294 | NO | ALUM. | N/A | N/A | GREENHECK ESD-635 | COLOR CHOICE BY ARCHITECT. |
| L-2 | 101 | 48x22 | 930 | 3.27 | 285 | NO | ALUM. | N/A | N/A | GREENHECK ESD-635 | COLOR CHOICE BY ARCHITECT. |
| L-3 | 101 | 14x22 | 465 | 0.81 | 573 | NO | ALUM. | N/A | N/A | GREENHECK ESD-635 | COLOR CHOICE BY ARCHITECT. |
| L-4 | 101 | 14x22 | 465 | 0.81 | 573 | NO | ALUM. | N/A | N/A | GREENHECK ESD-635 | COLOR CHOICE BY ARCHITECT. |

# ROOF HOOD SCHEDULE

| PLAN SYMBOL | ROOM NO. | AREA/UNIT SERVED | INTAKE OR RELIEF | CFM | SIZE (in) | FREE AREA (SQ. FT.) | MAX.VEL. (FPM) | DAMPER | | MATERIAL | ROOF CURB | MANUFACTURER & MODEL NO. | ACCESSORIES/NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | TYPE | MOTOR VOLT. | | | | |
| RH-1 | 108 | EF-1 | RELIEF | 1,725 | 24x14 12.25 H. | 3.34 | 730 | - | - | ALUMINUM | [1] | GREENHECK WRH | COLOR CHOICE BY ARCHITECT. |
| RH-2 | 108 | EF-2 | RELIEF | 1,725 | 24x14 12.25 H. | 3.34 | 730 | - | - | ALUMINUM | [1] | GREENHECK WRH | COLOR CHOICE BY ARCHITECT. |

*[1] SLOPED ROOF CURB. VERIFY ROOF PITCH WITH ARCHITECTURAL PLANS AND G.C.*

# GRILLE, REGISTER, AND DIFFUSER SCHEDULE

| PLAN SYMBOL | DESCRIPTION | MANUFACTURER & MODEL NO. | MATERIAL | ACCESSORIES/NOTES |
|---|---|---|---|---|
| CD-1 | 24x24 SQUARE FACE, ROUND NECK, 4-WAY DEFLECTION CEILING DIFFUSER, SPRING LOCK INNER CORE, FOR LAY-IN CEILING INSTALLATION. | PRICE ASCD | ALUMINUM | WHITE FINISH |
| RG-1 | SQUARE PATTERN GRILLE, FIXED CORE OF 1/2"x1/2"x1/2" FABRICATED ALUMINUM SQUARES, FLAT FRAME WITH 1 1/4" MARGIN, FOR SURFACE MOUNT INSTALLATION. | PRICE 80 | ALUMINUM | WHITE FINISH |
| RG-2 | SIDEWALL GRILLE, STATIONARY DEFLECTION VANES, 45° DEFLECTION VANES, 1/2" O.C., FLAT FRAME WITH 1 1/4" MARGIN, HORIZONTAL FRONT. | PRICE 635 | ALUMINUM | WHITE FINISH |

# DUCTWORK/INSULATION SCHEDULE

| SYSTEM [1] | LOW PRESSURE | | | | MED. PRESSURE | | HIGH PRESSURE | | INSULATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MAX PRES. | SEAL A | SEAL B | SEAL C | MAX PRES. | SEAL A | MAX PRES. | SEAL A | INTERNAL/ THICKNESS | | EXTERNAL/ THICKNESS | |
| CONCEALED SUPPLY AIR DUCTWORK | 2" | X | | | | | | | NO | - | YES | 2" |
| RETURN AIR DUCTWORK | 2" | X | | | | | | | NO | - | NO | - |
| RETURN PLENUMS AT DHP's (ACOUSTICALLY LINED) | 2" | X | | | | | | | YES | ½" | NO | - |
| EXHAUST AIR - EXHAUST FAN/RANGE HOOD TO OUTLET | 2" | X | | | | | | | NO | - | YES | 2" |
| OUTSIDE AIR, MIXED AIR, AND RELIEF AIR DUCTWORK (ERV/DHP's) | 2" | X | | | | | | | NO | - | YES | 2" |
| ROOF HOOD DUCT DROPS | 2" | X | | | | | | | NO | - | [2] | 2" |
| LOUVER INTAKE DUCTWORK | 2" | X | | | | | | | NO | - | [2] | 2" |
| DUCTWORK IN ATTIC SPACE | 2" | X | | | | | | | NO | - | [3] | 2.2" |

*[1] THIS SCHEDULE IS INTENDED AS A GUIDE AND DOES NOT REPRESENT COMPLETE INSULATION REQUIREMENTS FOR THE PROJECT. REFER TO WRITTEN MECHANICAL SPECIFICATION SECTIONS AND DETAILS ON PLAN SHEET FOR FURTHER REQUIREMENTS.*
*[2] RIGID WITH LAG AND MASTIC.*
*[3] R-12 MINIMUM.*

# DUCTLESS SPLIT SYSTEM HEAT PUMP SCHEDULE

| PLAN SYMBOL | NOM. TON | HTG. CAP'Y (MBH) | REFRIG. TYPE | SUCT. LINE [1] | LIQUID LINE [1] | CONDENSING (OUTDOOR) UNIT | | | | | EVAPORATOR COIL/INDOOR UNIT | | | | | | ACCESSORIES /NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SEER2 | COMPR. TYPE | MCA | ELEC. CHAR | MANUFACTURER & MODEL NO. | CFM | O.A. CFM | EXT. S.P. | FAN SPEEDS | ELEC. CHAR. | MANUFACTURER & MODEL NO. | |
| DHP-1 | 2.0 | 37.0 | R-32 | 5/8" | 1/4" | 17.5 | TWIN ROTARY | 22.3 | 208/1 | SAMSUNG AC024DXADCG/AA | 740 | 180 | 0.5" | 3 | 208/1 | SAMSUNG AC024DNHDCG/AA | [2] |
| DHP-2 | 0.75 | 15.0 | R-32 | 3/8" | 1/4" | 18.9 | TWIN ROTARY | 13.9 | 208/1 | SAMSUNG AC009DXSCCG/AA | 150 | 0 | 0.5" | 3 | 208/1 | SAMSUNG AC009DNHDCG/AA | [2] |
| DHP-3 | 1.0 | 18.0 | R-32 | 3/8" | 1/4" | 18.6 | TWIN ROTARY | 13.9 | 208/1 | SAMSUNG AC012DXSCCG/AA | 290 | 60 | 0.5" | 3 | 208/1 | SAMSUNG AC012DNHDCG/AA | [2] |
| DHP-4 | 0.75 | 15.0 | R-32 | 3/8" | 1/4" | 18.9 | TWIN ROTARY | 13.9 | 208/1 | SAMSUNG AC009DXSCCG/AA | 280 | 15 | 0.5" | 3 | 208/1 | SAMSUNG AC009DNHDCG/AA | [2] |
| DHP-5 | 0.75 | 15.0 | R-32 | 3/8" | 1/4" | 18.9 | TWIN ROTARY | 13.9 | 208/1 | SAMSUNG AC009DXSCCG/AA | 160 | 10 | 0.5" | 3 | 208/1 | SAMSUNG AC009DNHDCG/AA | [2] |

*[1] VERIFY SIZE WITH MANUFACTURER AND INSTALLED LENGTHS. INSULATE SUCTION & LIQUID LINES.*
*[2] WIRED WALL MOUNTED THERMOSTAT. FILTER BOX WITH MERV 8 FILTERS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.*

# EXHAUST FAN SCHEDULE

| PLAN SYMBOL | ROOM NO. | SYSTEM | CFM | EXT. S.P. | WHEEL TYPE & SIZE | RPM (DESIGN & MAX) | BHP | MOTOR (HP/W) | ELEC. CHAR. | DAMPER TYPE/SIZE | DRIVE | FAN TYPE | MANUFACTURER & MODEL NO. | CONTROL/NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EF-1 | 108 | VEHICLE EXHAUST | 1,725 | 0.38" | B.I.-16½" | 819/ 1140 | 0.2 | 3/4 HP | 120/1 | BACKDRAFT 23x23 | [1] | INLINE | GREENHECK SQ-160-VG | INITIATED BY CO/NO2 CONTROLLER AND TIME CLOCK. |
| EF-2 | 108 | VEHICLE EXHAUST | 1,725 | 0.38" | B.I.-16½" | 819/ 1140 | 0.2 | 3/4 HP | 120/1 | BACKDRAFT 23x23 | [1] | INLINE | GREENHECK SQ-160-VG | INITIATED BY CO/NO2 CONTROLLER AND TIME CLOCK. |
| EF-3 | 101 | VEHICLE EXHAUST | 465 | 0.38" | B.I.-11" | 1218/ 1725 | 0.09 | 1/4 HP | 120/1 | BACKDRAFT 12x12 | [1] | INLINE | GREENHECK SQ-99-VG | INITIATED BY CO/NO2 CONTROLLER AND TIME CLOCK. |
| EF-4 | 101 | VEHICLE EXHAUST | 465 | 0.38" | B.I.-11" | 1218/ 1725 | 0.09 | 1/4 HP | 120/1 | BACKDRAFT 12x12 | [1] | INLINE | GREENHECK SQ-99-VG | INITIATED BY CO/NO2 CONTROLLER AND TIME CLOCK. |
| EF-5 | 104 | TOILET | 75 | 0.25" | F.C. | 650 | 0.04 | 0.06 HP | 120/1 | BACKDRAFT 6"ø | [2] | CEILING | GREENHECK SP-B110ES | INTERLOCK WITH TOILET ROOM LIGHTS. COORDINATE WITH E.C. |
| EF-6 | 106 | GENERAL | 75 | 0.25" | F.C. | 650 | 0.04 | 0.06 HP | 120/1 | BACKDRAFT 6"ø | [2] | CEILING | GREENHECK SP-B110ES | CONTINUOUS RUN. |
| EF-7 | 111 | TOILET | 170 | 0.38" | F.C. | 900 | 0.03 | 0.06 HP | 120/1 | BACKDRAFT 8"ø | [2] | CEILING | GREENHECK SP-A200 | INTERLOCK WITH TOILET ROOM LIGHTS. COORDINATE WITH E.C. |
| EF-8 | 113 | LAUNDRY | 50 | 0.25" | F.C. | 900 | 0.01 | 0.06 HP | 120/1 | BACKDRAFT 6"ø | [2] | CEILING | GREENHECK SP-B80 | INTERLOCK WITH LIGHTS. COORDINATE WITH E.C. |

*[1] DIRECT E.C. MOTOR. PROVIDE WITH FAN MOUNTED POTENTIOMETER FOR BALANCING.*
*[2] DIRECT DRIVE E.C. MOTOR WITH INTERNAL SPEED CONTROLLER FOR BALANCING.*

# GAS FIRED UNIT HEATER SCHEDULE

| PLAN SYMBOL | TYPE | CFM | GAS TYPE | INPUT (MBH) | OUTPUT (MBH) | GAS CONN. SIZE | HEAT EXCH. MTL. | IGNITOR | FAN MOTOR | | | APPROX. WEIGHT (LBS) | MANUFACTURER & MODEL NO. | ACCESSORIES/NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | HP | RPM | ELEC. CHAR. | | | |
| UH-1 | SEPARATED COMBUSTION | 5123 | NAT. | 400 | 332 | 3/4" | STAINLESS STEEL | DIRECT SPARK | 1/2 | 1050 | 120/1 | 320 | REZNOR UDZ-400 | [1] |
| UH-2 | SEPARATED COMBUSTION | 1537 | NAT. | 120 | 99.6 | 1/2" | STAINLESS STEEL | DIRECT SPARK | 1/4 | 1050 | 120/1 | 110 | REZNOR UDZ-125 | [1] |
| UH-3 | SEPARATED COMBUSTION | 1537 | NAT. | 120 | 99.6 | 1/2" | STAINLESS STEEL | DIRECT SPARK | 1/4 | 1050 | 120/1 | 110 | REZNOR UDZ-125 | [1] |
| UH-4 | SEPARATED COMBUSTION | 1921 | NAT. | 150 | 124.5 | 1/2" | STAINLESS STEEL | DIRECT SPARK | 1/4 | 1050 | 120/1 | 180 | REZNOR UDZ-150 | [1] |
| UH-5 | SEPARATED COMBUSTION | 961 | NAT. GAS | 75 | 62.25 | 1/2" | STAINLESS STEEL | DIRECT SPARK | 0.06 | 1550 | 120/1 | 80 | REZNOR UDZ-75 | [1] |

*[1] 4-POINT HANGER KIT, 2 STAGE GAS, CONCENTRIC VENT/INTAKE AIR TERMINATION, TOTALLY ENCLOSED MOTOR, THERMOSTAT, AND VERTICAL & HORIZONTAL LOUVERS.*

# DESTRATIFICATION (CEILING) FAN SCHEDULE

| PLAN SYMBOL | ROOM NO. | TYPE | DIA. (IN.) | MAX. CFM | dBA @ MAX SPEED | MOTOR ELEC. | ELEC. CHAR | APPROX. WEIGHT (LBS) | MANUFACTURER & MODEL NO. | CONTROL | ACCESSORIES/NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DF-1 | 101 | VERTICAL AXIAL-FLOW | 17 | 588 | 40.8 | 55 W (0.48 A) | 120/1 | 20 | ZOO FANS H25 AC | [1] | 2-POINT SUSPENSION. BLACK OR WHITE COLOR CHOICE BY ARCHITECT. |
| DF-2 | 101 | VERTICAL AXIAL-FLOW | 17 | 588 | 40.8 | 55 W (0.48 A) | 120/1 | 20 | ZOO FANS H25 AC | [1] | 2-POINT SUSPENSION. BLACK OR WHITE COLOR CHOICE BY ARCHITECT. |
| DF-3 | 108 | VERTICAL AXIAL-FLOW | 17 | 588 | 40.8 | 55 W (0.48 A) | 120/1 | 20 | ZOO FANS H25 AC | [2] | 2-POINT SUSPENSION. BLACK OR WHITE COLOR CHOICE BY ARCHITECT. |
| DF-4 | 108 | VERTICAL AXIAL-FLOW | 17 | 588 | 40.8 | 55 W (0.48 A) | 120/1 | 20 | ZOO FANS H25 AC | [2] | 2-POINT SUSPENSION. BLACK OR WHITE COLOR CHOICE BY ARCHITECT. |
| DF-5 | 108 | VERTICAL AXIAL-FLOW | 17 | 588 | 40.8 | 55 W (0.48 A) | 120/1 | 20 | ZOO FANS H25 AC | [2] | 2-POINT SUSPENSION. BLACK OR WHITE COLOR CHOICE BY ARCHITECT. |
| DF-6 | 108 | VERTICAL AXIAL-FLOW | 17 | 588 | 40.8 | 55 W (0.48 A) | 120/1 | 20 | ZOO FANS H25 AC | [2] | 2-POINT SUSPENSION. BLACK OR WHITE COLOR CHOICE BY ARCHITECT. |

*[1] VSPOT-10K LOW VOLTAGE CONTROLLER FOR DF-1 AND 2.*
*[2] VSPOT-10K LOW VOLTAGE CONTROLLER FOR DF-3 THRU DF-6.*

# ELECTRIC RADIANT PANEL SCHEDULE

| PLAN SYMBOL | ROOM NO. | SIZE (W'xL') | WATTS | BTUH | ELEC. CHAR. | APPROX. WEIGHT (LBS). | MANUFACTURER & MODEL NO. | ACCESSORIES | NOTES |
|---|---|---|---|---|---|---|---|---|---|
| ERP-1 | 104 | 2x2 | 375 | 1,280 | 120/1 | 13 | MARKEL CP123 | LINE VOLTAGE THERMOSTAT WITH TEMPERATURE INDICATION. | LAY-IN CEILING INSTALLATION. |
| ERP-2 | 111 | 2x2 | 375 | 1,280 | 120/1 | 13 | MARKEL CP123 | LINE VOLTAGE THERMOSTAT WITH TEMPERATURE INDICATION. | LAY-IN CEILING INSTALLATION. |
| ERP-3 | 113 | 2x2 | 375 | 1,280 | 120/1 | 13 | MARKEL CP123 | LINE VOLTAGE THERMOSTAT WITH TEMPERATURE INDICATION. | LAY-IN CEILING INSTALLATION. |


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715-835-7500
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WYOCENA FIRE DEPARTMENT ADDITION
284 S COLUMBUS STREET
WYOCENA, WI 53969

MECHANICAL SCHEDULES

REVISIONS:

| NO. | DATE |
|---|---|
| | |

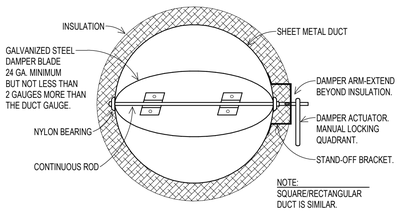
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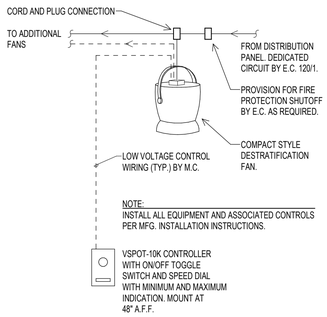
L&P PROJECT # 26057


APEX Engineering
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Telephone: 715-835-7736
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Project No.: 26042
Drawn By: HRV
Designed By: LJJ

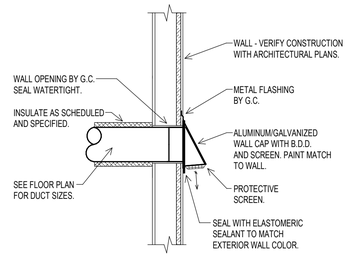

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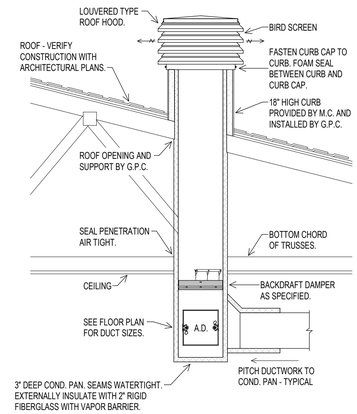

14 M402 TYPICAL DAMPER DETAIL
NO SCALE



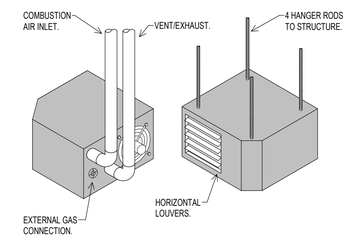

11 M402 DESTRAT. FAN CONTROL
NO SCALE



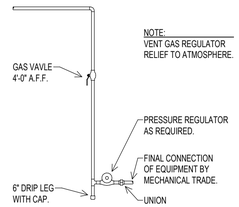

7 M402 EXHAUST WALL CAP DETAIL
NO SCALE (EF-5 THU 8) (ERV-1) (H-1)



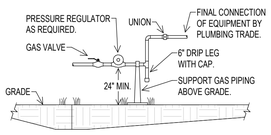

4 M402 ROOF HOOD DETAIL
NO SCALE (EF-1 & 2)



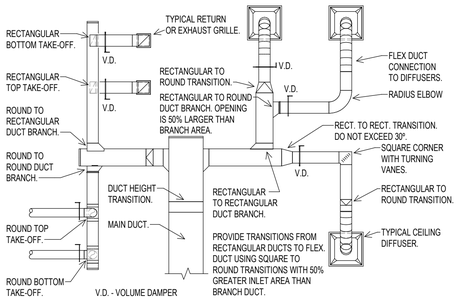

1 M402 UNIT HEATER DETAIL
NO SCALE (UNIT HEATERS)



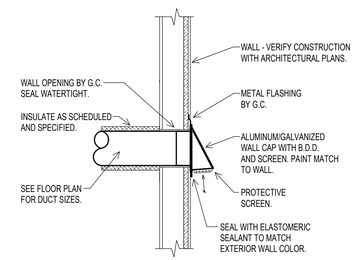

15 M402 GAS CONNECTION DETAIL
NO SCALE



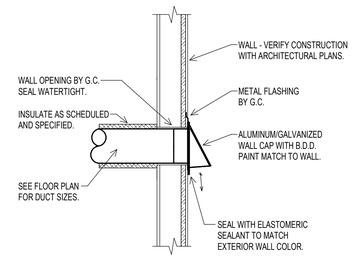

16 M402 GAS CONNECTION DETAIL
NO SCALE (GROUND MOUNTED EQUIPMENT)



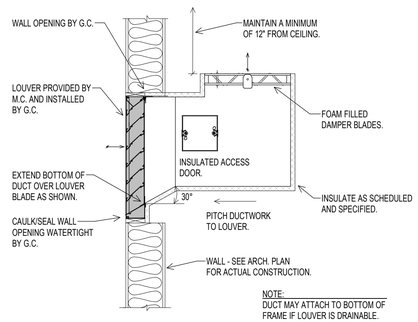

12 M402 TYPICAL DUCT CONDITIONS
NO SCALE



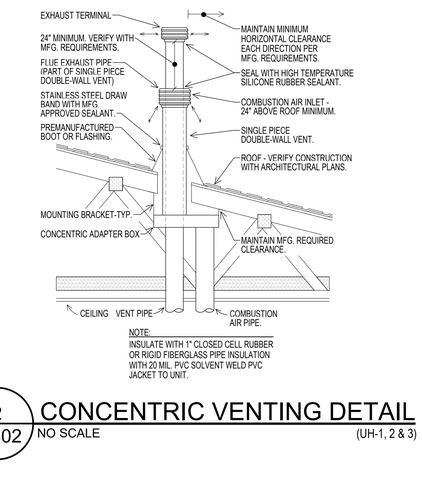

9 M402 INTAKE HOOD WALL CAP
NO SCALE (DHP-1, 4, & 5)



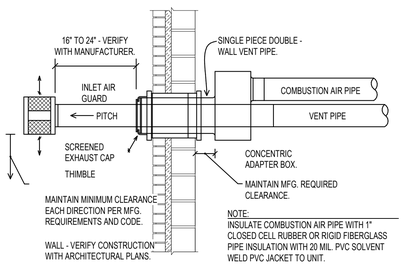

8 M402 DRYER WALL CAP DETAIL
NO SCALE



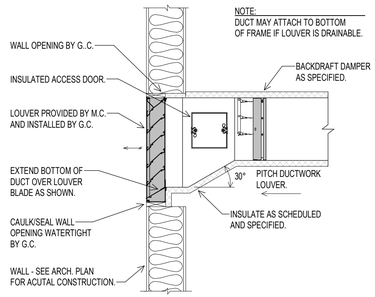

5 M402 O.A. LOUVER CONNECTION DETAIL
NO SCALE (L-1 & 2)



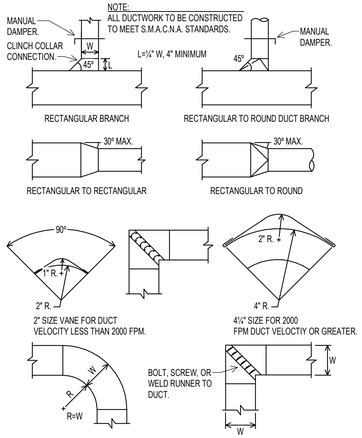

2 M402 CONCENTRIC VENTING DETAIL
NO SCALE (UH-1, 2 & 3)



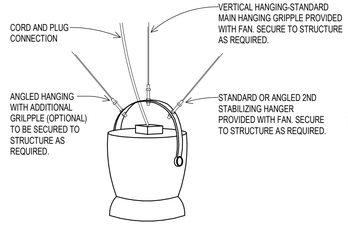

3 M402 CONCENTRIC VENTING DETAIL
NO SCALE (UH-4 & 5)




6 M402 E.A. LOUVER CONNECTION DETAIL
NO SCALE (L-3 & 4)




13 M402 DUCTWORK DETAIL
NO SCALE




10 M402 DESTRATIFICATION FAN DETAIL
NO SCALE

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WYOCENA FIRE DEPARTMENT
ADDITION
284 S COLUMBUS STREET
WYOCENA, WI 53969

MECHANICAL DETAILS

REVISIONS:
NO. DATE

ISSUE DATE:
AUGUST 12, 2026

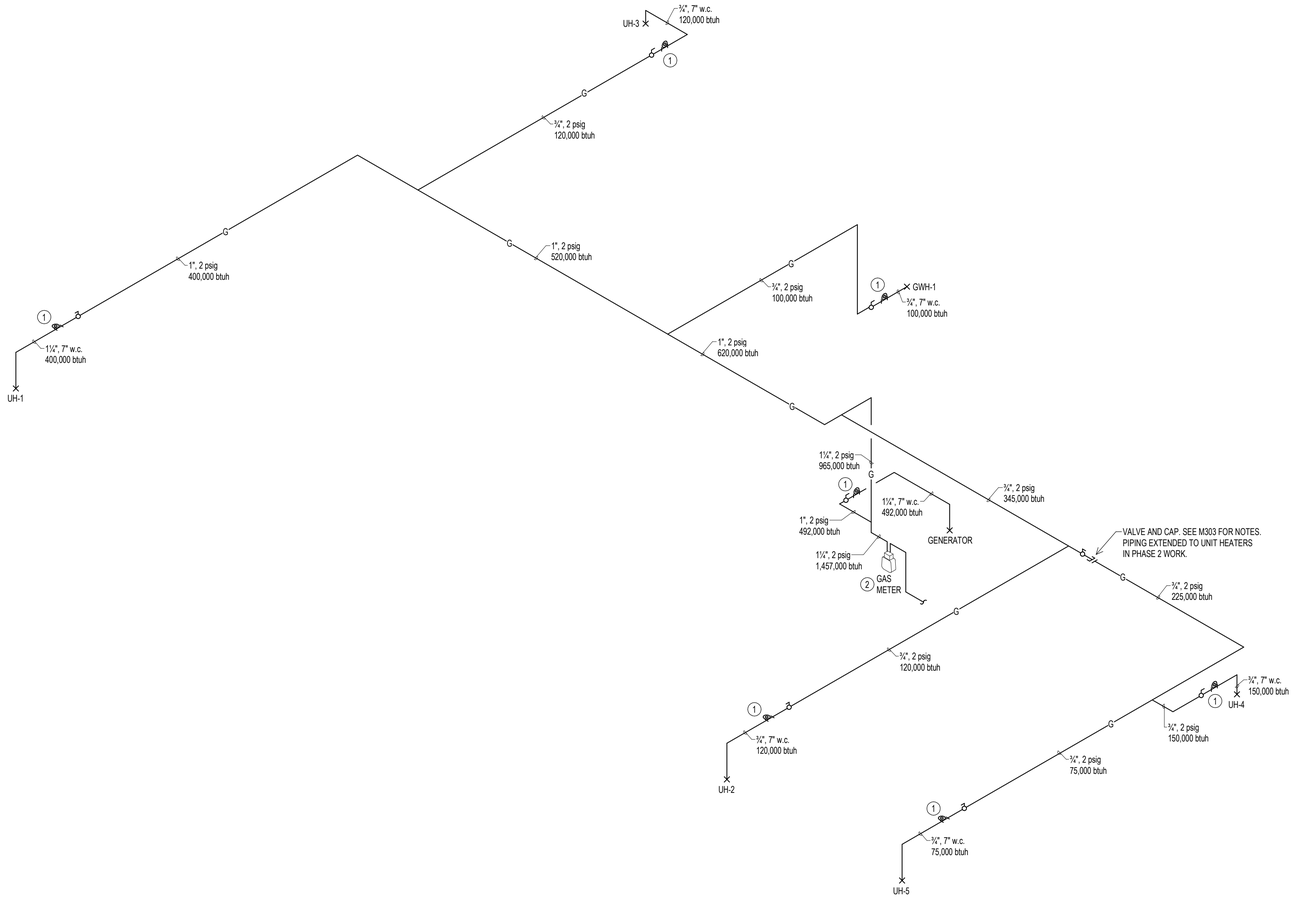
M402

L&P PROJECT # 26057

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Project No.: 26042
Drawn By: HRV
Designed By: LJJ

8/12/2026 8:08:34 AM Designer Author Checker

| # | REMODEL KEYNOTES - M403 |
|---|---|
| 1 | PROVIDE 2 PSIG DOWN TO 7" WATER COLUMN (w.c.) GAS PRESSURE REGULATOR. INSTALL GAS PRESSURE REGULATOR AS PER REGULATOR AND GAS EQUIPMENT MFG'S SPECIFICATIONS. VENT GAS REGULATOR TO ATMOSPHERE. INSTALL VENT PIPING PER GAS REGULATOR MFG RECOMMENDATIONS. SEE DETAIL FOR DRIP LEG AND ADDITIONAL REQUIREMENTS. |
| 2 | NEW GAS SERVICE AND GAS METER SET BY GAS UTILITY. COORDINATE GAS SERVICE, GAS METER, REQUIRED GAS PRESSURE, AND GAS LOAD WITH GAS UTILITY. 2 psig, 1,457,000 Btuh GAS LOAD. |




1 / M403 MECHANICAL GAS SCHEMATIC
1/8" = 1'-0" (NO SCALE)


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MECHANICAL GAS SCHEMATIC

REVISIONS:

| NO. | DATE |
|---|---|
| | |

ISSUE DATE:
AUGUST 12, 2026

M403

L&P PROJECT # 26057

8/12/2026 8:08:34 AM Designer Author Checker

# ELECTRICAL SYMBOL LEGEND

(NOT ALL SYMBOLS APPLY TO THIS PROJECT)

## ABBREVIATIONS

| | |
|---|---|
| A | AMPS, AMPERE |
| AC | ALTERNATING CURRENT |
| ADA | AMERICANS WITH DISABILITIES ACT |
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| AIC | AVAILABLE INTERRUPTING CURRENT |
| AL | ALUMINUM |
| ANSI | AMERICAN NATIONAL STANDARDS INSTITUTE |
| ATS | AUTOMATIC TRANSFER SWITCH |
| AWG | AMERICAN WIRE GAUGE |
| C | CONDUIT |
| CCTV | CLOSED CIRCUIT TELEVISION |
| CKT | CIRCUIT |
| CU | COPPER |
| DC | DIRECT CURRENT |
| DIA | DIAMETER |
| E | EMERGENCY |
| EG | ENGINE GENERATOR |
| EMT | ELECTRICAL METALLIC TUBING |
| EX | EXISTING |
| FA | FIRE ALARM |
| FAAP | FIRE ALARM ANNUNCIATING PANEL |
| FACP | FIRE ALARM CONTROL PANEL |
| GEN | GENERATOR |
| GFI | GROUND FAULT CIRCUIT INTERRUPTER |
| GFP | GROUND FAULT PROTECTION |
| GND | GROUND |
| HOA | HAND-OFF-AUTOMATIC |
| HP | HORSEPOWER |
| IEEE | INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS |
| IG | ISOLATED GROUND |
| KCMIL | THOUSAND CIRCULAR MILS |
| KV | KILOVOLT |
| KVA | KILOVOLT AMPS |
| KW | KILOWATT |
| KWH | KILOWATT HOUR |
| LSIG | LONG TIME, SHORT TIME, INSTANTANEOUS, AND GROUND |
| MAX | MAXIMUM |
| MCC | MOTOR CONTROL CENTER |
| MIN | MINIMUM |
| MH | MANHOLE |
| MTS | MANUAL TRANSFER SWITCH |
| N | NEW |
| NA | NOT APPLICABLE |
| NC | NORMALLY CLOSED |
| NEC | NATIONAL ELECTRICAL CODE |
| NEMA | NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION |
| NEUT | NEUTRAL |
| NFPA | NATIONAL FIRE PROTECTION ASSOCIATION |
| NIC | NOT IN CONTRACT |
| NL | NORMAL |
| NO | NORMALLY OPEN |
| OH | OVERHEAD |
| PA | PUBLIC ADDRESS |
| PC | PHOTOCELL |
| PH | PHASE |
| RSC | RIGID STEEL CONDUIT |
| SEC | SECURITY |
| SPD | SURGE PROTECTIVE DEVICE |
| SW | SWITCH |
| TEMP | TEMPORARY |
| TMB | TELEPHONE MOUNTING BOARD |
| TV | TELEVISION |
| TYP. | TYPICAL |
| UC | UNDER COUNTER |
| UIG | UNDERGROUND |
| UGE | UNDERGROUND ELECTRIC |
| UL | UNDERWRITERS' LABORATORIES |
| UNO | UNLESS NOTED OTHERWISE |
| UPS | UNINTERRUPTIBLR POWER SUPPLY |
| V | VOLTS, VOLTAGE |
| VFD | VARIABLE FREQUENCY DRIVE |
| WP | WEATHERPROOF |
| XFER | TRANSFER |
| XFMR | TRANSFORMER |

## REFERENCE

| | |
|---|---|
| (#) | KEYED NOTE REFERENCE - NEW NOTE |
| [#] | KEYED NOTE REFERENCE - DEMOLITION |
| 48" | DENOTES MOUNTING HEIGHT AFF |
| (#) | KEYED NOTE REFERENCE - SPECIALITY |

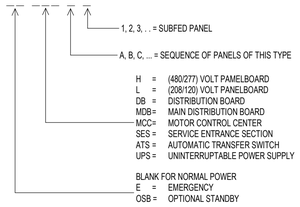
## GENERAL DRAWING SYMBOLS

NUMBER / SHEET — DETAIL

NORTH ARROW

NORTH

## EQUIPMENT NAMING CONVENTION




## RACEWAY & CONDUCTORS

BRANCH CIRCUIT GENERAL INFORMATION:
BRANCH CIRCUITS FROM OVERCURRENT PROTECTION (20A) TO FURTHEST DEVICE SHALL NOT EXCEED 75 FEET FOR #12AWG COPPER AND 150 FEET FOR #10 AWG COPPER; MEASURED ALONG CONDUCTORS. BRANCH CIRCUITS EXCEEDING 150 FEET WILL BE SIZED SO THAT VOLTAGE DROP DOES NOT EXCEED 2.5%.

- CONCEALED RACEWAY BETWEEN DEVICES AND OR EQUIPMENT IN WALLS OR IN CEILING SPACE
- UNDERGROUND RACEWAY BETWEEN DEVICES AND OR EQUIPMENT
- CONDUIT TURNS (DOWN / UP)
- CONDUIT STUBBED AND CAPPED

## EQUIPMENT

| SYMBOL | |
|---|---|
| MSB | MAIN SWITCHBOARD. DASHED LINES INDICATE CLEARANCES. |
| DB | DISTRIBUTION BOARD. DASHED LINES INDICATE CLEARANCES. |
| H1A | FLUSH MOUNTED PANELBOARD. DASHED LINES INDICATE CLEARANCES. |
| L1A | SURFACE MOUNTED PANELBOARD. DASHED LINES INDICATE CLEARANCES. |
| MCC | MOTOR CONTROL CENTER. DASHED LINRS INDICATE CLEARANCES. |
| T1A | DRY TYPE TRANSFORMOR, WITH NAME |
| VFD | VARIABLE FREQUENCY DRIVE |
| ATS | AUTOMATIC TRANSFER SWITCH. DASHED LINES INDICATE CLEARANCES. |
| G | GROUND BAR |

## UTILITIES

| | |
|---|---|
| UT | UTILITY TRANSFORMER |
| S | PAD MOUNTED SWITCH |
| CC | CONNECTION CABINET (UTILITY METER MOUNT) |
| PM | PRIMARY SITE METER ENCLOSURE |
| ME | METER ENCLOSURE. EITHER ON BUILDING OR ON UTILITY EQUIPMENT |
| CT | CT ENCLOSURE. EITHER ON BUILDING OR ON UTILITY EQUIPMENT |
| MH | MANHOLE - POWER OR COMMUNICATION AS INDICATED ON PLANS |
| HH | HAND HOLE - POWER OR COMMUNICATION AS INDICATED ON PLANS |
| EG | ENGINE GENERATOR |
| TP | TELECOMMUNICATION PEDESTAL |

## UTILITIES

| SYMBOL | DESCRIPTION | MOUNTING LOC. | MOUNTING HT. |
|---|---|---|---|
| | DEVICE INDICATOR LETTER "X" EQUALS DESIGNATION BELOW (TYPICAL FOR MOST RECEPTACLE TYPES): BLANK FOR NORMAL POWER; E = EMERGENCY; GFI = GFCI RATED; IG = ISOLATED GROUND; TR = TAMPER RESISTANT; WP/GFI = WEATHERPROOF AND GFCI; WP = WEATHERPROOF | | |
| X | IN FLOOR DULEX RECEPTACLE. CONFIGURATION AS INDICATED ON PLANS. | FLOOR | VARIES SEE ARCH SHEETS |
| X | IN FLOOR DOUBLE DULEX RECEPTACLE CONFIGURATION AS INDICATED ON PLANS. | | |
| X | COMBINATION POWER/COMMUNICATION IN FLOOR OUTLET CONFIGURATION AS INDICATED ON PLANS. | | |
| X | CEILING MOUNTED DUPLEX RECEPTACLE | CEILING | FLUSH |
| X | CEILING MOUNTED DOUBLE DUPLEX RECEPTACLE | | |
| X | SIMPLEX RECEPTACLE | WALL, UON | =18" TO BOTTOM OF DEVICE UNO |
| X | DUPLEX RECEPTACLE DOUBLE DUPLEX RECEPTACLE (QUADPLEX) | | |
| X | DOUBLE DUPLEX RECEPTACLE (QUADPLEX) | | |
| X | SPECIAL PURPOSE RECEPTACLE, NEMA CONFIGURATION AND AMPERAGE AS NOTED ON PLANS | | |
| | DIVIDED CHANNEL SURFACE MOUNTED RACEWAY | WALL, UNO | VARIES SEE PLANS |
| | PLUGMOLD | | |
| J | WALL MOUNTED CODE SIZE J-BOX | VARIES SEE PLANS | VARIES SEE PLANS |
| J | CODE SIZE JUNCTION BOX | | |
| TCP | TEMPERTURE CONTROL PANEL PROVIDED BY DIVISION 23 | | |
| VAV | VAV POWER PANEL PROVIDED BY DIVISION 23 | | |
| CD | CORD DROP | | |
| T | THERMOSTAT | WALL | =44" UON |
| DO | ADA DOOR OPERATOR | | |
| PB | PUSHBUTTON | | |
| SC | SPEED CONTROL SWITCH | | |
| S | STOP PANIC PUSH BUTTON | | |
| | OHD PUSHBUTTON CONTROL | | |
| ECB | ENCLOSED CIRCUIT BREAKER AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE U.O.N. | VARIES | VARIES |
| X | X EQUALS FUSE SIZE; Y EQUALS DISCONNECT SIZE | | |
| | MAGNETIC MOTOR STARTER | | |
| | COMBINATION STARTER | | |
| XXX / # | EQUIPMENT NAME PER SCHEDULE; EQUIPMENT # PER SCHEDULE | NA | NA |
| S | MOTOR. NUBER INDICATES HORSEPOWER RATING FOR 1HP AND LARGER | | |
| F | MOTOR "F" INDICATES FRACTIONAL HORSEPOWER | | |

## LIGHTING

REFER TO LUMINAIRE SCHEDULE FOR ALL LUMINAIRE TYPES WHETHER WALL MOUNTED OR CEILING MOUNTED.

| SYMBOL | DESCRIPTION | MOUNTING LOC. | MOUNTING HT. |
|---|---|---|---|
| X | FIXTURE TYPE; SWITCH LEGS OR RELAY #; RECESSED TROFFER DESIGNATIONS TYPICAL FOR ALL FIXTURE TYPES; X - XX CIRCUIT #; PANEL DESIGNATION | CEILING | REFER TO LIGHTING SHEETS |
| | LINEAR DIRECT/INDIRECT LUMINAIRE. CABLE OR STEM MOUNTED. | | |
| | DOWN LIGHT LUMINAIRE; CEILING MOUNTED | | |
| | PENDANT FIXTURE; CEILING MOUNTED | | |
| | WALL MOUNTED LINEAR LUMINAIRE | VARIES | |
| | WALL MOUNTED LUMINAIRE | | |
| | TRACK MOUNTED LUMINAIRES | | |
| | STRIP/INDUSTRIAL LUMINAIRE | | |
| | EXIT LUMINAIRE. SHADED SIDE INDICATES FACE SIDE. PROVIDE DIRECTIONAL ARROW(S) AS INDICATED ON PLANS | VARIES | |
| | COMBINATION EXIT SIGN/EM LIGHT | | |
| | EMERGENCY LIGHT; CEILING MOUNTED | | |
| | EMERGENCY LIGHT; WALL MOUNTED | | |
| | EMERGENCY LIGHT - REMOE HEAD; WALL MOUNTED | | |
| | POLE MOUNTED LUMINAIRE | EXTERIOR | AS DETAILED |
| | POST TOP MOUNTED LUMINAIRE | | |
| | BOLLARD LUMINAIRE | | |
| | FLOOD LIGHT | | |
| PC | PHOTOCELL | | |
| S X | DEVICE INDICATOR LETTER "X" EQUALS DESIGNATION BELOW (TYPICAL FOR MOST SWITCH TYPES): a = SMALL CASE LETTER DENOTES SWITCHING CONTROL; 2 = DOUBLE POLE TOGGLE SWITCH; 3 = THREE-WAY TOGGLE SWITCH; 4 = FOUR=WAY TOGGLE SWITCH; P = PILOT LIGHT TOGGLE SWITCH; M = MOTOR RATES SWITCH; K = KEY OPERATED SWITCH; WP = WEATHERPROOF TOGGLE SWITCH; T = DIGITAL TIMER SWITCH; D = DIMMER SWITCH; LV = LOW VOLTAGE | WALL | =44" UON |
| MS | OCCUPANCY/VACANCY SENSOR SWITCH: TYPE AS INDICATED ON PLANS | | |
| MS | OCCUPANCY/VACANCY SENSOR; TYPE AS INDICATED ON PLANS | CEILING | SURFACE |
| ALS | AMBIENT LIGHT SENSOR TYPE AS INICATED ON PLANS | | |
| LCP | LIGHTING CONTROL PANEL | WALL | 74" TO TOP |

## SPECIAL SYSTEMS

| SYMBOL | DESCRIPTION | MOUNTING LOC. | MOUNTING HT. |
|---|---|---|---|
| | FLOOR MOUNTED INFORMATION OUTLET | FLOOR | VARIES SEE PLANS |
| | TELEPHONE OUTLET | WALL | +18" UON |
| | INFORMATION OUTLET | | |
| | DATA OUTLET | | |
| | CABLE TV OUTLET | | |
| W | TELEPHONE OUTLET WALL MOUNTED | WALL | +48" UON |
| WAP | WIRELESS ACCESS POINT | CEILING | +108" |
| | CABLE TRAY FOR COMMUNICATIONS | ABOVE CEILING | VARIES |
| VP | VIDEO PROJECTOR | CEILING | FLUSH |
| | CEILING MOUNTED INFORMATION OUTLET | | |
| S | CEILING SPEAKER | | |
| S | COMBINATION CLOCK/SPEAKER. | WALL | SEE PLANS |
| S | SPEAKER | | |
| | CLOCK | | |
| | TELEPHONE TERMINAL BACKBOARD (TTB) AROUND PERIMETER OF ROOM | | |
| | FLUSH MOUNTED CABINET | WALL | +6'-7" TOP OF CABINET |
| | SURFACE MOUNTED CABINET | | |
| VI | VIDEO INPUT | WALL | +44" UON |

## SECURITY

| SYMBOL | DESCRIPTION | MOUNTING LOC. | MOUNTING HT. |
|---|---|---|---|
| CR | CARD READER | WALL UON | +44" UON |
| KP | KEY PAD | | |
| KS | KEY SWITCH | | |
| | CLOSED - CIRCUIT TV CAMERA | WALL UON | +84" UON |
| MD | MOTION SENSOR; TYPE AS NOTED ON PLANS | | |
| DS | DOOR POSITION SWITCH | DOOR | SEE PLANS |
| DL | DOOR LOCK | DOOR | SEE PLANS |

## DEMOLITION

| SYMBOL | DESCRIPTION | NOTES |
|---|---|---|
| S | DASHED SYMBOL INDICATES EXISTING DEVICE OR EQUIPMENT TO BE REMOVED | REFER TO DEMOLITION PLANS FOR ADDITIONAL INFORMATION |
| R | REMOVED EXISTING RACEWAY IN ALL ACCESSIBLE AREAS. CAPPED AMD ABANDONED IF IN INACCESSIBLE AREA | |
| S | SOLID SYMBOL, LIGHTERIN COLOR INDICATES EXISTING DEVICE OR EQUIPMENT TO REMAIN | |
| EX | EXISTING CONDUIT TO REMAIN | |

## FIRE ALARM

| SYMBOL | DESCRIPTION | MOUNTING LOC. | MOUNTING HT. |
|---|---|---|---|
| FACP | MAIN FIRE ALARM CONTROL PANEL | WALL | - |
| FAAP | FIRE ALARM ANNUNCIATOR PANEL | | |
| | PULL STATION | WALL | +44" |
| | FIRE ALARM HORN | WALL | +80" UON |
| S | FIRE ALARM SPEAKER | | |
| ## | FIRE ALARM HORN/STROBE (##) IS CANDELA RATING | | |
| S ## | FIRE ALARM SPEAKER/STROBE (##) IS CANDELA RATING | | |
| ## | FIRE ALARM STROBE (##) IS CANDELA RATING | | |
| B | FIRE ALARM BELL | | |
| S | SMOKE DETECTOR | CEILING | SURFACE |
| H | HEAT DETECTOR | | |
| S ER | SMOKE DETECTOR; ELEVATOR RECALL | | |
| H ER | HEAT DETECTOR; ELEVATOR RECALL | | |
| S ## | CEILING MOUNTED SPEAKER/STROBE (##) IS CANDELA RATING | | |
| S | CEILING MOUNTED SPEAKER | | |
| ## | CEILING MOUNTED STROBE (##) IS CANDELA RATING | | |
| S DUCT SMOKE DETECTOR | DUCT MOUNTED SMOKE DETECTOR | AT DUCT | SEE PLANS |
| TS | TAMPER SWITCH | PIPE | SEE PLANS |
| FS | FLOW SWITCH | | |
| DH | MAGNETIC DOOR HOLD OPEN | VARIES | SEE PLANS |
| CM | CONTROL MODULE | | |
| MM | MONITORING MODULE | | |
| RTS | REMOTE TEST SWITCH | | |
| S | LOUD HORN SPEAKER | | |

## ONE - LINE DIAGRAM

| SYMBOL | DESCRIPTION |
|---|---|
| 300/3 | CIRCUIT BREAKER; RATINGINO. POLES. SETTINGS AND PROTECTIONAS NOTED IN SPECIFICATION OR ON DRAWINGS. |
| T1A 112.5KV 480V - 208Y/120V K-13 | TRANSFORMER NAME TRANSFORNOR KVA RATING PRIMARY VOLTAGE AND WIRING CONFIGURATION SECONDARY VOLTAGE AND WIRING CONFIGURATION K RATING (IF APPLICABLE) |
| | CURRENT TRANSFORMER |
| 400A | DISCONNECT SWITCH. "400A" DENOTES AMPERAGE RATING |
| 400A | FUSED DISCONNECT SWITCH. "400A" DENOTES AMPERAGE RATING |
| GFP | CIRCUIT BREAKER WITH GROUND FAULT FUNCTION |
| ST | CIRCUIT BREAKER WITH SHUNT TRIP OPERATION |
| | GROUNDING ELECTRODE |
| N E L | TRANSFER SWITCH. SEE PLANS FOR TYPE OF SWITCH |
| SPD | SURGE PROTECTIVE DEVICE |
| M | ELECTRONIC METER |
| VFD | VFD CONNECTION |
| M | MOTOR CONNECTION |

## ELECTRICAL SHEET INDEX



| SHEET # | SHEET NAME |
|---|---|
| E101 | ELECTRICAL SYMBOL LEGEND |
| E201 | ELECTRICAL DEMOLITION FLOOR PLANS - PHASE 1 & 2 |
| E301 | ELECTRICAL FLOOR PLAN - REMODEL - LIGHTING PHASE 2 |
| E302 | ELECTRICAL FLOOR PLAN - ADDITION - LIGHTING PHASE 1 |
| E303 | ELECTRICAL FLOOR PLAN - REMODEL - POWER PHASE 2 |
| E304 | ELECTRICAL FLOOR PLAN - ADDITION - POWER PHASE 1 |
| E401 | ELECTRICAL POWER RISER DIAGRAM, PANELS & DETAILS |
| E402 | ELECTRICAL LIGHTING & EQUIPMENT SCHEDULES |




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ELECTRICAL SYMBOL LEGEND

REVISIONS:

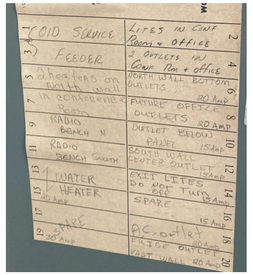
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E101

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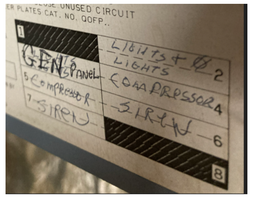

PANEL A DIRECTORY



PANEL A BREAKERS



METER, TRANSFER SWITCH, DISC., TELECOM




PANEL B DIRECTORY



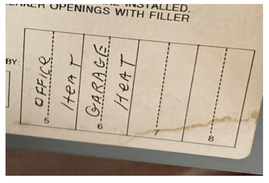

PANEL B BREAKERS




PANEL C DIRECTORY



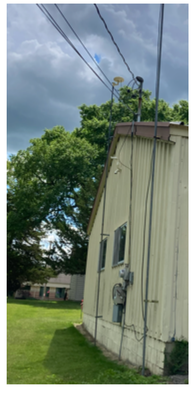

PANEL C BREAKERS




PANEL G DIRECTORY



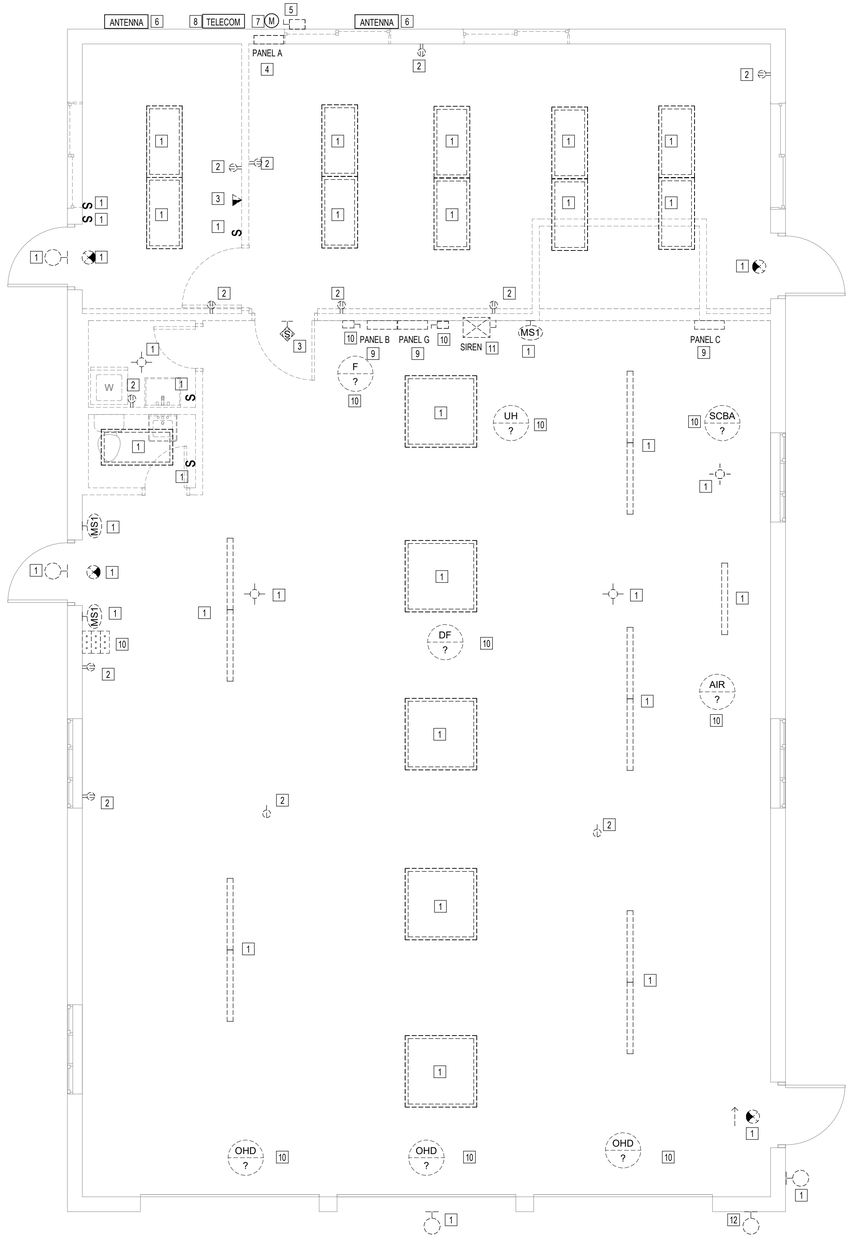

PANEL G BREAKERS



ELECTRICAL SERVICE, ANTENNAS, TELECOM




CITY BACK UP SIREN




1 / E201 ELECTRICAL DEMOLITION FLOOR PLAN

1/4" = 1'-0"

(PHASE 2 *SEE NOTES FOR EXCEPTIONS)

NORTH

| # | DEMO KEYNOTES - E201 |
|---|---|
| 1 | E.C. SHALL REMOVE LUMINAIRE, CONTROL AND ALL APPURTENANCES COMPLETE. |
| 2 | E.C. SHALL REMOVE RECEPTACLE AND ALL APPURTENANCES COMPLETE. |
| 3 | E.C. SHALL REMOVE TELECOM/SOUND DEVICES AND ALL APPURTENANCES COMPLETE. COORDINATE WITH THE OWNER. |
| 4 | E.C. SHALL DISCONNECT AND REMOVE PANEL A COMPLETE. PRIOR TO DEMOLITION, ADD A NEW PANEL IN THE REMODEL AND COORDINATE A NEW ELECTRICAL SERVICE TO THE BUILDING. |
| 5 | *PHASE 1 - E.C. SHALL DISCONNECT AND REMOVE TRANSFER SWITCH AND DISCONNECT FOR PORTABLE GENERATOR |
| 6 | *PHASE 1 - OWNER TO COORDNATE THE RELOCATION OF THE ANTENNA AND ALL APPURTENANCES COMPLETE. E.C. TO REMOVE ANY CONDUIT AND PROVIDE NEW RACEWAY AT NEW LOCATIONS. COORDINATION WITH OWNER REQUIRED. |
| 7 | *PHASE 1 - E.C. SHALL DISCONNECT AND REMOVE SERVICE METER COMPLETE. PRIOR TO DEMOLITION, COORDINATE A NEW ELECTRICAL SERVICE TO THE BUILDING. |
| 8 | *PHASE 1 - OWNER TO COORDINATE THE RELOCATION OF THE TELECOM SERVICE AND ALL APPURTENANCES COMPLETE. E.C. TO REMOVE ANY CONDUIT AND PROVIDE NEW RACEWAY AT NEW LOCATIONS. COORDINATION WITH OWNER REQUIRED. |
| 9 | E.C. SHALL DISCONNECT AND REMOVE PANEL COMPLETE. |
| 10 | E.C. SHALL DISCONNECT EQUIPMENT AND ALL APPURTENANCES COMPLETE. COORDINATE WITH OTHER TRADES. |
| 11 | SIREN AND SIREN CONTROLLER EQUIPMENT TO BE RELOCATED BY E.C. THE SYSTEM IS VERY OLD AND THE ELECTRICIAN WILL NEED TO DOCUMENT ALL EQUIPMENT AND ELECTRICAL CONNECTIONS PRIOR TO RELOCATION. FIELD COORDINATION REQUIRED WITH THE OWNER. |
| 12 | E.C. SHALL DISCONNECT AND REMOVE THE SIGN COMPLETE. SALVAGE SIGN AND TURN OVER TO THE OWNER. |

**GENERAL DEMOLITION NOTES:**

- THIS DEMOLITION PLAN HAS BEEN PREPARED TO ASSIST THE CONTRACTOR IN DETERMINING THE SCOPE OF THE WORK TO BE INCLUDED IN THIS PROJECT. IT IS NOT INTENDED TO BE A COMPLETE INDICATION OF ALL THE DEMOLITION WORK REQUIRED TO COMPLETE THE PROJECT. THE CONTRACTOR IS REQUIRED TO REVIEW THE DRAWINGS, SPECIFICATIONS, COORDINATE WITH OTHER TRADES, AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO BIDDING THE PROJECT.
- E.C. SHALL PROVIDE COVERS ON ALL OPEN J-BOXES CREATED BY THE DEMOLITION WORK.
- ALL PATCHING AND PAINTING SHALL BE COORDINATED WITH THE G.C.


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ELECTRICAL DEMOLITION
FLOOR PLANS - PHASE 1 & 2

REVISIONS:

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ISSUE DATE: AUGUST 12, 2026

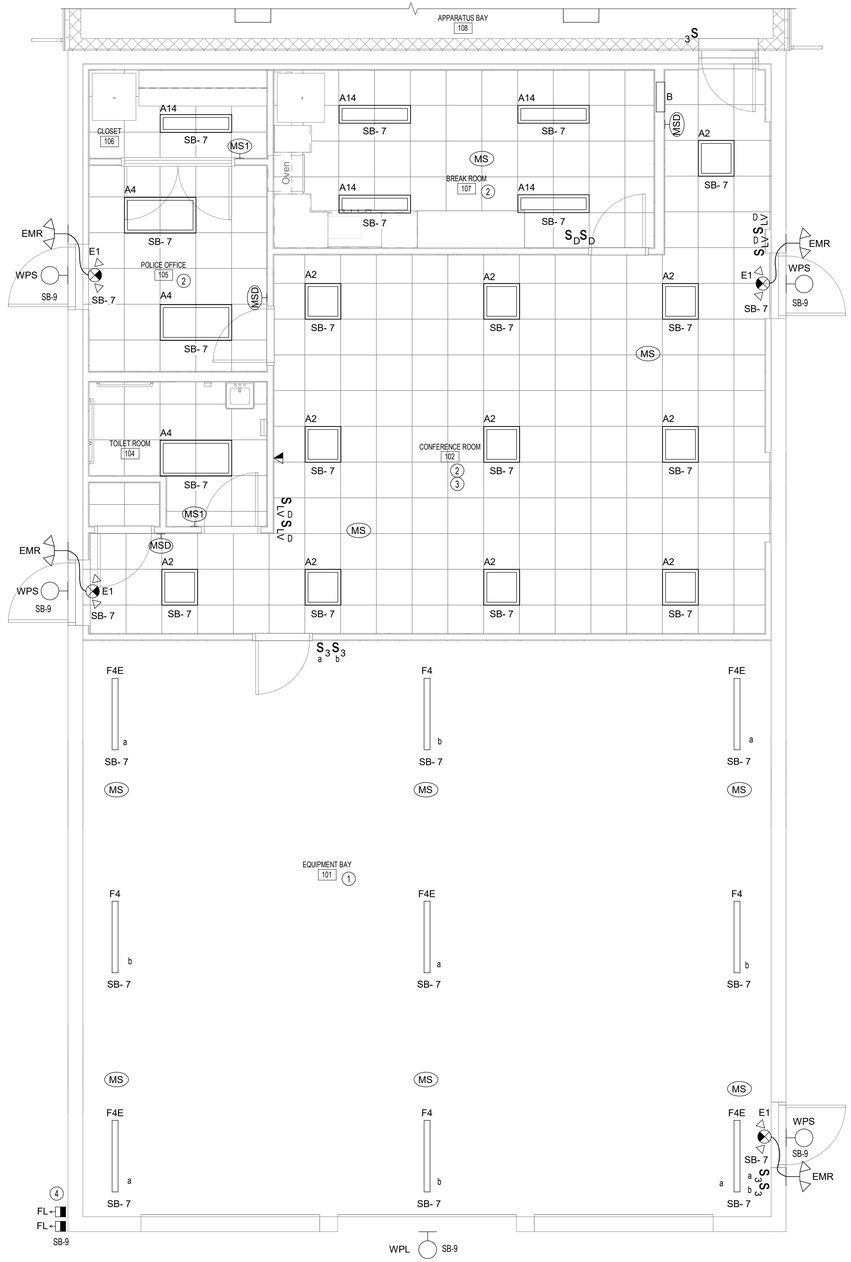
E201

L&P PROJECT # 26057


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Project No.: 26042
Drawn By: PDK
Designed By: PDK

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1 / E301 ELECTRICAL FLOOR PLAN - REMODEL

1/4" = 1'-0" (LIGHTING - PHASE 2)

NORTH

| # | REMODEL KEYNOTES - E301 |
|---|---|
| 1 | EXPOSED/SURFACE RACEWAY IS ALLOWED IN THE GARAGE. |
| 2 | PROVIDE AUXILIARY CONTACTS FOR PLUG LOAD CODE REQUIREMENTS. |
| 3 | PROVIDE REMOTE TEST SWITCH FOR ALL TYPE F4E'S BATTERIES. |
| 4 | FLAG LIGHTING TO BE BUILDING MOUNTED. COORDINATION WITH FLAG POLE LOCATION, FLAG HEIGHT, AND ARCHITECT REQUIRED PRIOR TO INSTALLATION. |

**GENERAL LIGHTING NOTES:**

- E.C. SHALL COORDINATE WITH ARCHITECTURAL CODE SHEET AND SPECIFICATIONS FOR ALL ROOM CLASSIFICATIONS AND FIRE RATINGS PRIOR TO BIDS.
- E.C. SHALL INSTALL ALL CONDUITS IN THE WALLS IN ALL ROOMS EXCEPT THE APPARATUS BAYS. PAINT EXPOSED CONDUITS TO MATCH WALLS.


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WYOCENA FIRE DEPARTMENT
ADDITION
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WYOCENA, WI 53969

ELECTRICAL FLOOR PLAN
- REMODEL - LIGHTING
PHASE 2

REVISIONS:

| NO. | DATE |
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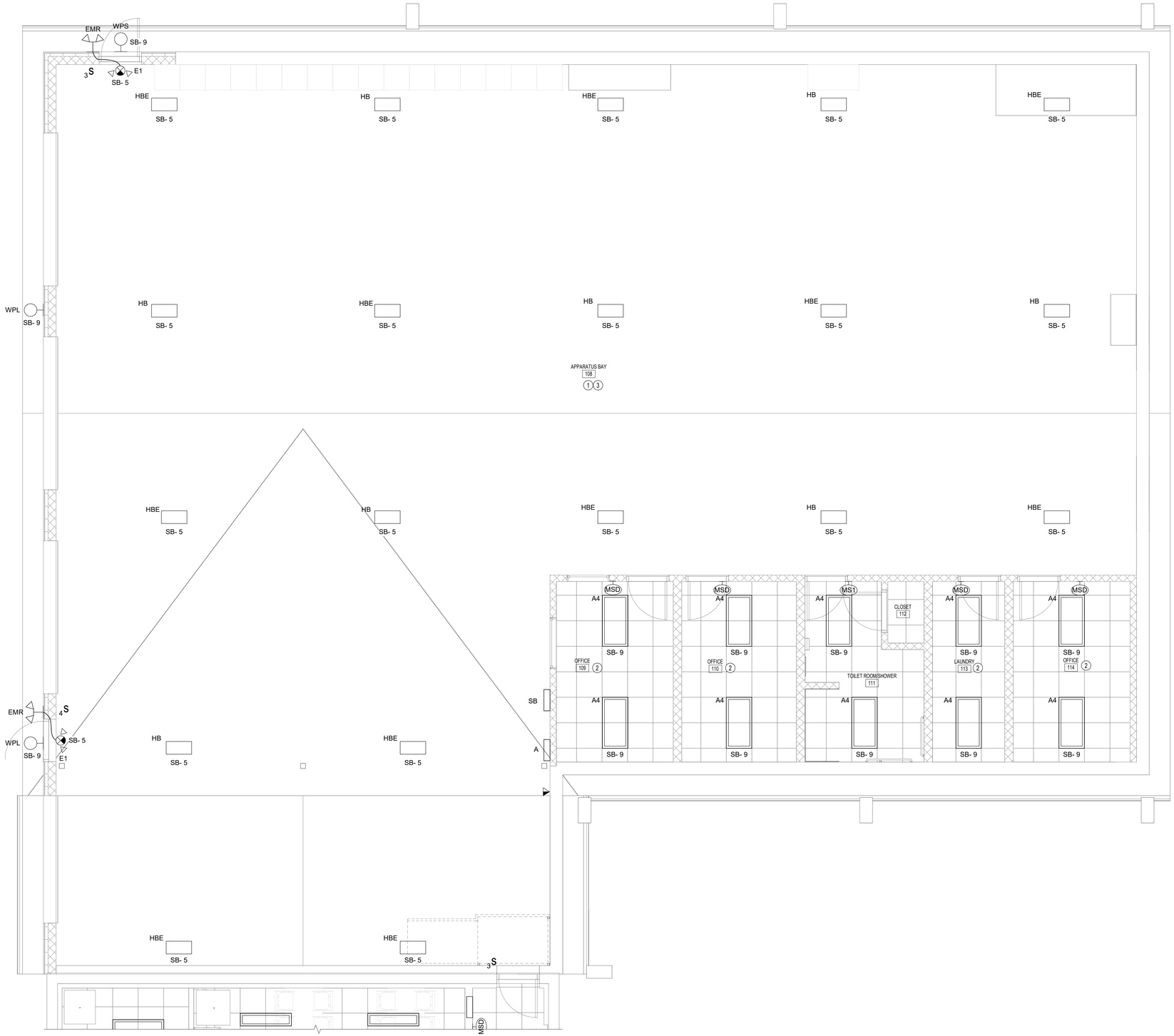
ISSUE DATE:
AUGUST 12, 2026

E301

L&P PROJECT # 26057


APEX Engineering
Eau Claire, Wisconsin
Telephone: 715-835-7736
Web: apexengineering.biz
Project No.: 26042
Drawn By: PDK
Designed By: PDK


8/12/2026 9:16:02 AM




1 E302 ELECTRICAL FLOOR PLAN - ADDITION
1/4" = 1'-0"
(LIGHTING - PHASE 1)

NORTH

| # | REMODEL KEYNOTES - E302 |
|---|---|
| 1 | EXPOSED/SURFACE RACEWAY IS ALLOWED IN THE GARAGE. |
| 2 | PROVIDE AUXILIARY CONTACTS FOR PLUG LOAD CODE REQUIREMENTS. |
| 3 | PROVIDE REMOTE TEST SWITCH FOR ALL TYPE HBE'S BATTERIES |

**GENERAL LIGHTING NOTES:**
- E.C. SHALL COORDINATE WITH ARCHITECTURAL CODE SHEET AND SPECIFICATIONS FOR ALL ROOM CLASSIFICATIONS AND FIRE RATINGS PRIOR TO BIDS.
- E.C. SHALL INSTALL ALL CONDUITS IN THE WALLS IN ALL ROOMS EXCEPT THE APPARATUS BAYS. PAINT EXPOSED CONDUITS TO MATCH WALLS.


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ELECTRICAL FLOOR PLAN
- ADDITION - LIGHTING
PHASE 1

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ISSUE DATE:
AUGUST 12, 2026

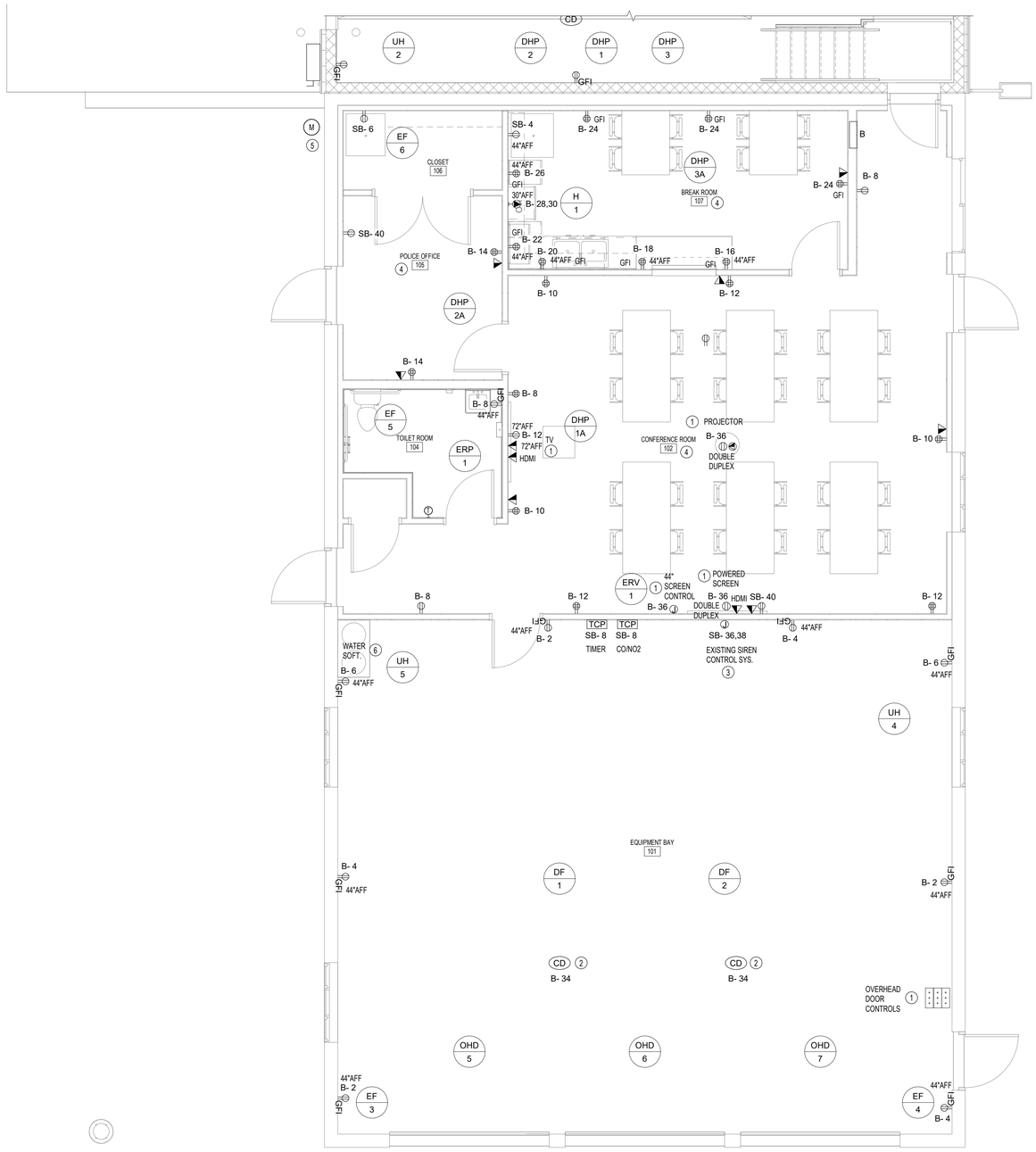
E302

L&P PROJECT # 26057


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Project No.: 26042
Drawn By: PDK
Designed By: PDK

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1 E303 ELECTRICAL FLOOR PLAN - REMODEL

1/4" = 1'-0" (POWER - PHASE 2)

NORTH

| # | REMODEL KEYNOTES - E303 |
|---|---|
| 1 | COORDINATE LOCATION OF EQUIPMENT WITH ARCHITECT, OWNER, AND PURCHASED EQUIPMENT PRIOR TO INSTALLATION. |
| 2 | COORDINATE LOCATION WITH TRUCK PLUG-INS AND OWNER. SEE DETAIL. |
| 3 | SEE NOTE 11 ON SHEET E201 FOR MORE INFORMATION. INSTALL SALAVAGED EQUIPMENT AND PROVIDE NEW CONDUIT AND CONDUCTORS. TEST AND CERTIFY. |
| 4 | HALF OF EACH DOUBLE DUPLEX RECEPTACLE SHALL BE CONTROLLED VIA OCCUPANCY SENSOR IN SPACE PER 2021 IECC C405.11 |
| 5 | TEMPORARY SERVICE METER LOCATION FOR PHASE 1 TO KEEP THE EXISTING BUILDING POWERED DURING CONSTRUCTION. COORDINATE WITH UTILITY. |
| 6 | WATER SOFTENER TO PLUG INTO ADJACENT RECEPTACLE. COORDINATE WITH P.C. |

**GENERAL POWER NOTES:**

- E.C. SHALL COORDINATE WITH ARCHITECTURAL CODE SHEET AND SPECIFICATIONS FOR ALL ROOM CLASSIFICATIONS AND FIRE RATINGS PRIOR TO BIDS.
- E.C. SHALL INSTALL ALL CONDUITS IN THE WALLS IN ALL ROOMS EXCEPT THE APPARATUS BAYS. PAINT EXPOSED CONDUITS TO MATCH WALLS.
- E.C. SHALL PROVIDE A DOUBLE GANG EXTRA DEEP J-BOX WITH A SINGLE GANG DRYWALL RING AND 1" CONDUIT WITH A GROMMET ON THE END TO THE NEAREST ACCESSIBLE CEILING FOR ALL INFORMATION OUTLETS.
- PROVIDE GFCI, AIC, WP, AND TR RECEPTACLES PER CODE. OWNER AND ARCHITECT TO SIGN OFF ON ALL RECEPTACLE LOCATIONS PRIOR TO INSTALLATION.
- PROVIDE A RED RECEPTACLE FOR ALL STANDBY POWERED RECEPTACLES. FACEPLATES TO MATCH NORMAL POWERED DEVICES.


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ELECTRICAL FLOOR PLAN
- REMODEL - POWER
PHASE 2

REVISIONS:

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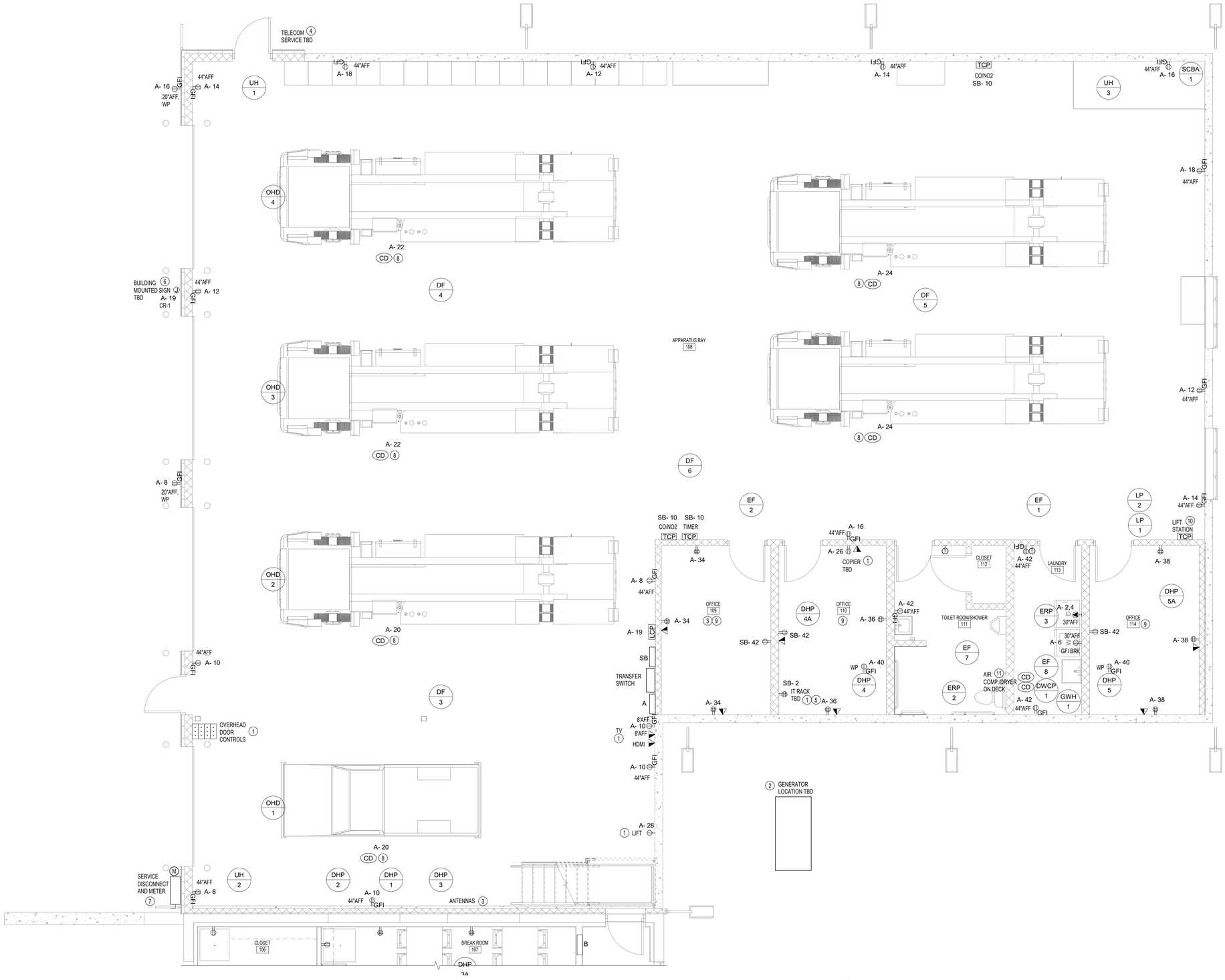
ISSUE DATE:
AUGUST 12, 2026

E303

L&P PROJECT # 26057


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Web: apexengineering.biz
Project No.: 26042
Drawn By: PDK
Designed By: PDK


8/12/2026 9:17:11 AM




## REMODEL KEYNOTES - E304

| # | |
|---|---|
| 1 | COORDINATE LOCATION OF EQUIPMENT WITH ARCHITECT, OWNER, AND PURCHASED EQUIPMENT PRIOR TO INSTALLATION. |
| 2 | 30KW GENERATOR LOCATION TBD. PAD TO BE 12" LARGER THAN THE PURCHASED EQUIPMENT FOOTPRINT. PAD BY G.C. COORDINATE WITH ARCHITECT AND G.C. PROVIDE (2) 120V CIRCUITS FOR HEATER AND CHARGER FROM PANEL SB. COORDINATE WITH EQUIPMENT PRIOR TO INSTALLATION. |
| 3 | SEE ARCHITECTURAL PLANS FOR (3) ANTENNAS UP NEAR THE ROOF. E.C. SHALL PROVIDE (3) 1" CONDUITS WITH PULL STRINGS FROM GABLE SIDE WALL TO OFFICE TELECOM RACK CEILING. PROVIDE PENETRATIONS AND NEMA 3R J-BOXES, COORDINATE WITH OWNER ON EXACT LOCATIONS. |
| 4 | STUB (2) 2" CONDUITS FROM THE TELECOM SERVICE (TBD) ON THE EXTERIOR OF THE BUILDING TO THE OFFICE TELECOM RACK. COORDINATE WITH OWNER AND SYSTEMS PROVIDER. |
| 5 | COORDINATE REQUIRED IT ROOM EQUIPMENT LAYOUT PRIOR TO INSTALLATION. E.C. SHALL PROVIDE FIRE RATED PLYWOOD, QUAD RECEPTACLE, CONDUIT SLEEVES BETWEEN THIS ROOM AND CONNECTING ROOMS. |
| 6 | PROVIDE A 1" C. THROUGH WALL TO SIGN FROM LIGHTING CONTROL PANEL RELAY #1. COORDINATE SIGN AND POWER LOCATION PRIOR TO INSTALLATION WITH ARCHITECT AND OWNER. |
| 7 | COORDINATE NEW ELECTRICAL SERVICE WITH UTILITY AND OWNER. E.C. SHALL FILL OUT NEW SERVICE REQUEST FORMS. SEE POWER RISER DIAGRAM FOR MORE DETAILS. |
| 8 | COORDINATE LOCATION WITH TRUCK PLUG-INS AND OWNER. SEE DETAIL. |
| 9 | HALF OF EACH DOUBLE DUPLEX RECEPTACLE SHALL BE CONTROLLED VIA OCCUPANCY SENSOR IN SPACE PER 2021 IECC C405.11 |
| 10 | E.C. PROVIDES ONE DISCONNECT FOR THE CONTROL PANEL. ALL CONNECTIONS FROM CONTROL PANEL TO PUMPS AND FLOATS BY P.C. COORDINATE WITH P.C. |
| 11 | AIR COMPRESSOR AND AIR DRYER UP ON THE LID. CORD DROPS OR WALL RECEPTACLES ARE APPROVED. COORDINATE WITH PURCHASED EQUIPMENT. AIR DRYER IS TBD, SO FURTHER COORDINATION IS REQUIRED FOR POWER CONNECTION TYPE. |

**GENERAL POWER NOTES:**

- E.C. SHALL COORDINATE WITH ARCHITECTURAL CODE SHEET AND SPECIFICATIONS FOR ALL ROOM CLASSIFICATIONS AND FIRE RATINGS PRIOR TO BIDS.
- E.C. SHALL INSTALL ALL CONDUITS IN THE WALLS IN ALL ROOMS EXCEPT THE APPARATUS BAYS. PAINT EXPOSED CONDUITS TO MATCH WALLS.
- E.C. SHALL PROVIDE A DOUBLE GANG EXTRA DEEP J-BOX WITH A SINGLE GANG DRYWALL RING AND 1" CONDUIT WITH A GROMMET ON THE END TO THE NEAREST ACCESSIBLE CEILING FOR ALL INFORMATION OUTLETS.
- PROVIDE GFCI, AIC, WP, AND TR RECEPTACLES PER CODE. OWNER AND ARCHITECT TO SIGN OFF ON ALL RECEPTACLE LOCATIONS PRIOR TO INSTALLATION.
- PROVIDE A RED RECEPTACLE FOR ALL STANDBY POWERED RECEPTACLES. FACEPLATES TO MATCH NORMAL POWERED DEVICES.
- GROUND ALL FLAMMABLE CABINETS. COORDINATE LOCATIONS WITH ARCHITECT AND OWNER.

1 E304 ELECTRICAL FLOOR PLAN - ADDITION

1/4" = 1'-0" (POWER - PHASE 1)

NORTH


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ELECTRICAL FLOOR PLAN
- ADDITION - POWER
PHASE 1

REVISIONS:

| NO. | DATE |
|---|---|
| | |

ISSUE DATE:
AUGUST 12, 2026

E304

L&P PROJECT # 26057

8/12/2026 9:20:31 AM

## Branch Panel: A

**Location:** APPARATUS BAY 108 | **Volts:** 120/240 Single | **A.I.C. Rating:** COORD.
**Supply From:** | **Phases:** 1 | **Mains Type:**
**Mounting:** Flush | **Wires:** 3 | **Bus Rating:** 400 A
**Enclosure:** Type 1 | **MCB Rating:** MLO

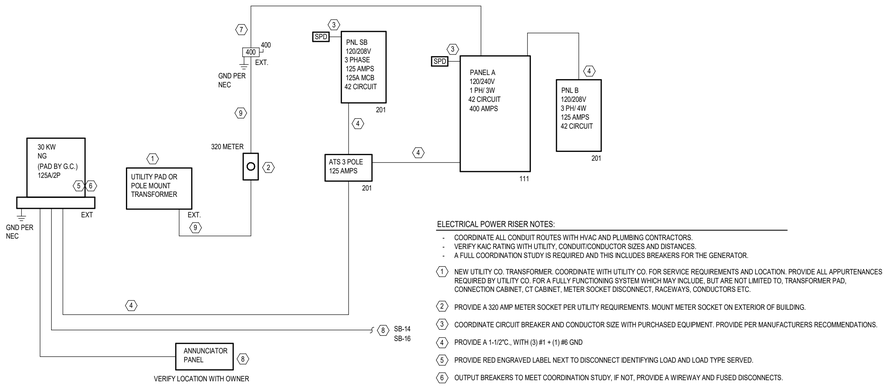
**Notes: FED FROM UTILITY**

| CKT | Circuit Description | Trip | Poles | A | | B | | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SPD (VERIFY BREAKER SIZE) | 30 A | 2 | 0 | 2500 | | | 2 | 20 A | DRYER | 2 |
| 3 | -- | -- | -- | | | 0 | 2500 | -- | -- | -- | 4 |
| 5 | PANEL SB | 125 A | 2 | 16485 | 1000 | | | 1 | 20 A | Receptacle WASHER | 6 |
| 7 | -- | -- | -- | | | 15017 | 540 | 1 | 20 A | Receptacle 108 SOUTH | 8 |
| 9 | PANEL B | 125 A | 2 | 11656 | 720 | | | 1 | 20 A | Receptacle 108 SOUTH | 10 |
| 11 | -- | -- | -- | | | 13461 | 540 | 1 | 20 A | Receptacle 108 NORTH | 12 |
| 13 | GWH-1 AND DWCP-1 | 20 A | 1 | 700 | 540 | | | 1 | 20 A | Receptacle 108 NORTH | 14 |
| 15 | SCBA (VERIFY WITH EXISTING FOR MOCP) | 50 A | 2 | | | 3750 | 540 | 1 | 20 A | Receptacle 108 NORTH | 16 |
| 17 | -- | -- | -- | 3750 | 360 | | | 1 | 20 A | Receptacle 108 NORTH | 18 |
| 19 | Power BUILDING SIGN | 20 A | 1 | | | 1100 | 1000 | 1 | 20 A | CORD DROP *GFCI BREAKER REQUIRED | 20 |
| 21 | Spare | 20 A | 1 | 0 | 1000 | | | 1 | 20 A | CORD DROP *GFCI BREAKER REQUIRED | 22 |
| 23 | Spare | 20 A | 1 | | | 0 | 1000 | 1 | 20 A | CORD DROP *GFCI BREAKER REQUIRED | 24 |
| 25 | DF-3, DF-4, DF-5,DF-6 & CONTROL | 20 A | 1 | 165 | 180 | | | 1 | 20 A | Receptacle COPIER | 26 |
| 27 | DHP-4 AND DHP-4A | 20 A | 2 | | | 1718 | 180 | 1 | 20 A | Receptacle LIFT IN APP BAY *GFCI BRK REQ. | 28 |
| 29 | -- | -- | -- | 1718 | 500 | | | 1 | 20 A | CORD DROP FOR AIR COMPRESSOR *GFCI... | 30 |
| 31 | DHP-5 AND DHP-5A | 20 A | 2 | | | 1718 | 500 | 1 | 20 A | CORD DROP FOR AIR DRYER *GFCI BRK | 32 |
| 33 | -- | -- | -- | 1718 | 1080 | | | 1 | 20 A | Receptacle 109 | 34 |
| 35 | ERP-2, ERP-3, EF-7, EF-8 | 20 A | 1 | | | 950 | 720 | 1 | 20 A | Receptacle 110 | 36 |
| 37 | EF-1 | 20 A | 1 | 1000 | 1080 | | | 1 | 20 A | Receptacle 114 | 38 |
| 39 | EF-2 | 20 A | 1 | | | 1000 | 360 | 1 | 20 A | Receptacle ROOF | 40 |
| 41 | Space | -- | 1 | -- | 540 | | | 1 | 20 A | Receptacle 111, 113 | 42 |
| | | | **Total Load:** | 46692 VA | | 46594 VA | | | | | |
| | | | **Total Amps:** | 389 A | | 388 A | | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Other | 0 VA | 0.00% | 0 VA | | |
| Receptacle | 19920 VA | 75.10% | 14960 VA | **Total Conn. Load:** | 93285 VA |
| Power | 70363 VA | 100.00% | 70363 VA | **Total Est. Demand:** | 89076 VA |
| Lighting | 3002 VA | 125.00% | 3753 VA | **Total Conn.:** | 389 A |
| | | | | **Total Est. Demand:** | 371 A |
| | | | | | |
| | | | | | |

**Notes:**




ELECTRICAL POWER RISER NOTES:

- COORDINATE ALL CONDUIT ROUTES WITH HVAC AND PLUMBING CONTRACTORS.
- VERIFY KAIC RATING WITH UTILITY, CONDUIT/CONDUCTOR SIZES AND DISTANCES.
- A FULL COORDINATION STUDY IS REQUIRED AND THIS INCLUDES BREAKERS FOR THE GENERATOR.

1. NEW UTILITY CO. TRANSFORMER. COORDINATE WITH UTILITY CO. FOR SERVICE REQUIREMENTS AND LOCATION. PROVIDE ALL APPURTENANCES REQUIRED BY UTILITY CO. FOR A FULLY FUNCTIONING SYSTEM WHICH MAY INCLUDE, BUT ARE NOT LIMITED TO, TRANSFORMER PAD, CONNECTION CABINET, CT CABINET, METER SOCKET DISCONNECT, RACEWAYS, CONDUCTORS ETC.
2. PROVIDE A 320 AMP METER SOCKET PER UTILITY REQUIREMENTS. MOUNT METER SOCKET ON EXTERIOR OF BUILDING.
3. COORDINATE CIRCUIT BREAKER AND CONDUCTOR SIZE WITH PURCHASED EQUIPMENT. PROVIDE PER MANUFACTURERS RECOMMENDATIONS.
4. PROVIDE A 1-1/2"C., WITH (3) #1 + (1) #6 GND
5. PROVIDE RED ENGRAVED LABEL NEXT TO DISCONNECT IDENTIFYING LOAD AND LOAD TYPE SERVED.
6. OUTPUT BREAKERS TO MEET COORDINATION STUDY, IF NOT, PROVIDE A WIREWAY AND FUSED DISCONNECTS.
7. (2) 2"C., WITH (3) #3/0 + (1) 3 GND IN EACH.
8. COORDINATE REQUIREMENTS FOR GENERATORS'S HEATER, CHARGER, AND ANNUNCIATOR. PROVIDE CONDUIT, CONDUCTORS, AND BREAKERS PER PURCHASED EQUIPMENT.
9. (2) 2"C., WITH (3) #3/0 IN EACH.

1 / E401 RISER DIAGRAM
NO SCALE

## Branch Panel: B

**Location:** BREAK ROOM 107 | **Volts:** 120/240 Single | **A.I.C. Rating:** COORD.
**Supply From:** A | **Phases:** 1 | **Mains Type:**
**Mounting:** Flush | **Wires:** 3 | **Bus Rating:** 125 A
**Enclosure:** Type 1 | **MCB Rating:** MLO

**Notes: IN ROOM 102 ON SHARED WALL WITH 107**

| CKT | Circuit Description | Trip | Poles | A | | B | | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | DF-1, DF-2, & CONTROL | 20 A | 1 | 110 | 540 | | | 1 | 20 A | Receptacle 101 | 2 |
| 3 | EF-3, EF-4 | 20 A | 1 | | | 1000 | 540 | 1 | 20 A | Receptacle 101 | 4 |
| 5 | DHP-1 AND DHP-1A | 25 A | 2 | 2191 | 360 | | | 1 | 20 A | Receptacls 101 | 6 |
| 7 | -- | -- | -- | | | 2191 | 900 | 1 | 20 A | Receptacle 102 | 8 |
| 9 | EF-5, EF-6, ERP-1 | 15 A | 1 | 575 | 1080 | | | 1 | 20 A | Receptacle 102 | 10 |
| 11 | ERV-1 | 20 A | 1 | | | 615 | 1260 | 1 | 20 A | Receptacle 102 | 12 |
| 13 | Spare | 20 A | 1 | 0 | 720 | | | 1 | 20 A | Receptacle 105 | 14 |
| 15 | Spare | 20 A | 1 | | | 0 | 360 | 1 | 20 A | Receptacle 107 | 16 |
| 17 | Spare | 20 A | 1 | 0 | 360 | | | 1 | 20 A | Receptacle 107 | 18 |
| 19 | Spare | 20 A | 1 | | | 0 | 360 | 1 | 20 A | Receptacle 107 | 20 |
| 21 | Spare | 20 A | 1 | 0 | 360 | | | 1 | 20 A | Receptacle 107 | 22 |
| 23 | Spare | 20 A | 1 | | | 0 | 1080 | 1 | 20 A | Receptacle 107 | 24 |
| 25 | Spare | 20 A | 1 | 0 | 360 | | | 1 | 20 A | Receptacle 107 | 26 |
| 27 | Spare | 20 A | 1 | | | 0 | 4000 | 2 | 50 A | ELECTRIC RANGE | 28 |
| 29 | Spare | 20 A | 1 | 0 | 4000 | | | -- | -- | -- | 30 |
| 31 | Spare | 20 A | 1 | | | 0 | 375 | 1 | 20 A | HOOD H-1 | 32 |
| 33 | Spare | 20 A | 1 | 0 | 1000 | | | 1 | 20 A | CORD DROP *GFCI BREAKER REQUIRED | 34 |
| 35 | Spare | 20 A | 1 | | | 0 | 780 | 1 | 20 A | Power OVERHEAD SCREEN/PROJECTOR | 36 |
| 37 | Spare | 20 A | 1 | 0 | 0 | | | 1 | 20 A | Spare | 38 |
| 39 | Spare | 20 A | 1 | | | 0 | 0 | 1 | 20 A | Spare | 40 |
| 41 | Spare | 20 A | 1 | 0 | 0 | | | 1 | 20 A | Spare | 42 |
| | | | **Total Load:** | 11656 VA | | 13461 VA | | | | | |
| | | | **Total Amps:** | 97 A | | 112 A | | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Receptacle | 8280 VA | 100.00% | 8280 VA | | |
| Power | 16836 VA | 100.00% | 16836 VA | **Total Conn. Load:** | 25116 VA |
| | | | | **Total Est. Demand:** | 25116 VA |
| | | | | **Total Conn.:** | 105 A |
| | | | | **Total Est. Demand:** | 105 A |
| | | | | | |
| | | | | | |

**Notes:**

## Branch Panel: SB

**Location:** APPARATUS BAY 108 | **Volts:** 120/240 Single | **A.I.C. Rating:** COORD.
**Supply From:** A | **Phases:** 1 | **Mains Type:**
**Mounting:** Surface | **Wires:** 3 | **Bus Rating:** 125 A
**Enclosure:** Type 1 | **MCB Rating:** 125 A

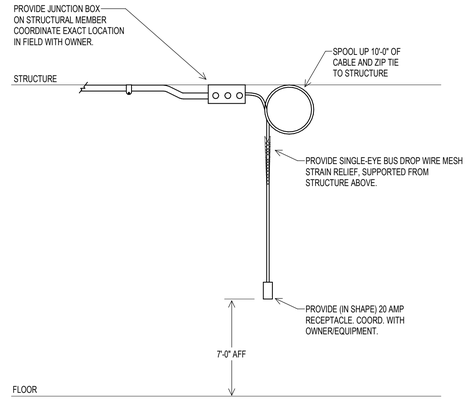
**Notes: 30KW GENERATOR SUPPLIES STAND BY POWER TO PANEL**

| CKT | Circuit Description | Trip | Poles | A | | B | | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SPD | 30 A | 2 | 0 | 360 | | | 1 | 20 A | Receptacle IT RACK | 2 |
| 3 | -- | -- | -- | | | 0 | 1000 | 1 | 20 A | Receptacle REFRIGERATOR *GFCI BREAKER | 4 |
| 5 | APP BAY 108 LIGHTING | 20 A | 1 | 1435 | 1000 | | | 1 | 20 A | Receptacle EVIDENCE REFRIGERATOR | 6 |
| 7 | REMODEL AREA LIGHTING | 20 A | 1 | | | 1045 | 200 | 1 | 15 A | TCP FOR CO/NO2 AND TIMER REMODEL | 8 |
| 9 | EXTERIOR LIGHTING | 20 A | 1 | 522 | 300 | | | 1 | 15 A | TCP FOR CO/NO2 AND TIMER ADDITION | 10 |
| 11 | OHD-1 | 20 A | 1 | | | 1100 | -- | 1 | -- | Space | 12 |
| 13 | OHD-2 | 20 A | 1 | 1100 | 0 | | | 1 | 20 A | GENERATOR HEATER | 14 |
| 15 | OHD-3 | 20 A | 1 | | | 1100 | 0 | 1 | 20 A | GENERATOR CHARGER | 16 |
| 17 | OHD-4 | 20 A | 1 | 1100 | 3336 | | | 2 | 40 A | LP-1,2 CONTROL PANEL 240V POWER | 18 |
| 19 | OHD-5 | 20 A | 1 | | | 1100 | 3336 | -- | -- | -- | 20 |
| 21 | OHD-6 | 20 A | 1 | 1100 | 100 | | | 1 | 20 A | LIFT STATION CONTROL PANEL | 22 |
| 23 | OHD-7 | 20 A | 1 | | | 1100 | 0 | 1 | 20 A | Spare | 24 |
| 25 | UH-1 | 20 A | 1 | 1086 | 0 | | | 1 | 20 A | Spare | 26 |
| 27 | UH-2 | 20 A | 1 | | | 370 | 0 | 1 | 20 A | Spare | 28 |
| 29 | UH-3 | 20 A | 1 | 370 | 0 | | | 1 | 20 A | Spare | 30 |
| 31 | UH-4 | 20 A | 1 | | | 370 | 0 | 1 | 20 A | Spare | 32 |
| 33 | UH-5 | 20 A | 1 | 200 | -- | | | 1 | -- | Space | 34 |
| 35 | DHP-2 AND DHP-2A | 20 A | 2 | | | 1718 | 500 | 2 | 20 A | Power SIREN | 36 |
| 37 | -- | -- | -- | 1718 | 500 | | | -- | -- | -- | 38 |
| 39 | DHP-3 AND DHP-3A | 20 A | 2 | | | 1718 | 360 | 1 | 20 A | Receptacle102, 105 | 40 |
| 41 | -- | -- | -- | 1718 | 540 | | | 1 | 20 A | Receptacle 109, 110, 114 | 42 |
| | | | **Total Load:** | 16485 VA | | 15017 VA | | | | | |
| | | | **Total Amps:** | 137 A | | 125 A | | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Other | 0 VA | 0.00% | 0 VA | | |
| Receptacle | 3260 VA | 100.00% | 3260 VA | **Total Conn. Load:** | 31502 VA |
| Power | 25240 VA | 100.00% | 25240 VA | **Total Est. Demand:** | 32253 VA |
| Lighting | 3002 VA | 125.00% | 3753 VA | **Total Conn.:** | 131 A |
| | | | | **Total Est. Demand:** | 134 A |
| | | | | | |
| | | | | | |

**Notes:**




2 / E401 CORD DROP
NO SCALE


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ELECTRICAL POWER RISER DIAGRAM, PANELS & DETAILS

REVISIONS:

| NO. | DATE |
|---|---|
| | |

ISSUE DATE: AUGUST 12, 2026

E401

L&P PROJECT # 26057

8/12/2026 9:20:54 AM

# LIGHTING FIXTURE SCHEDULE

| DES | DESCRIPTION | LIGHTING FIXTURE | | LAMP DATA | | VOLT | MNTG TYPE | CEILING TYPE | MNTG HEIGHT | FIXT. DEPTH | ACCEPTABLE MFG. | SEE NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MFG. | PART NUMBER | TEMP | LUMENS | | | | | | | |
| A2 | 2X2 FLAT PANEL W/SELECTABLE COLOR AND LUMENS | LITHONIA | CPX2X2ALO3 SWW7 | SELECTABLE | SELECTABLE | UNIVERSAL | LAY-IN | GRID | AT GRID | <3" | COOPER,CURRENT | 1 |
| A4 | 2X4 FLAT PANEL W/SELECTABLE COLOR AND LUMENS | LITHONIA | CPX2X4ALO6 SWW7 | SELECTABLE | SELECTABLE | UNIVERSAL | LAY-IN | GRID | AT GRID | <3" | COOPER,CURRENT | 1 |
| A14 | 1X4 FLAT PANEL W/SELECTABLE COLOR AND LUMENS | LITHONIA | CPX1X4ALO6 SWW7 | SELECTABLE | SELECTABLE | UNIVERSAL | LAY-IN | GRID | AT GRID | <3" | COOPER,CURRENT | 1 |
| E1 | EXIT WITH REMOTE HEADS AND REMOTE CAPACITY | LITHONIA | LHQMSWRGMVOLTSDHO | | | UNIVERSAL | UNIVERSAL | VERIFY | COORDINATE | | COOPER,CURRENT | 1,5 |
| EMR | REMOTE TWIN HEAD EXTERIOR | LITHONIA | ELMRWLP22OLDWHXDT | | | | | | | | COOPER,CURRENT | 1,5 |
| F4 | 4' LENSED STRIP LIGHT W/SELECTABLE COLOR AND LUMENS | LITHONIA | CSSL48ALO3MVOLTSWW380CRI | SELECTABLE | SELECTABLE | UNIVERSAL | PENDANT | EXPOSED | HIGH | | COOPER,CURRENT | 1,2 |
| F4E | SAME AS F4 WITH 1400 LUMEN BATTERY | LITHONIA | | SELECTABLE | SELECTABLE | UNIVERSAL | PENDANT | EXPOSED | HIGH | | COOPER,CURRENT | 1,2,5 |
| FL | SELECTABLE FLOOD LIGHT WITH INTEGRAL PHOTO CELL | LITHONIA | OLBAL0SIWW2UVOLT PE DDB | SELECTABLE | SELECTABLE | UNIVERSAL | WALL | X | COORDINATE | | COOPER,CURRENT | 1,2,3,4 |
| HB | HIGH BAY WITH OCC. SENSOR AND SELECTABLE COLOR & LUMENS | LITHONIA | CPHB12HEFGLCWDMVOLT40K80CRISSEAPIRCPHB1 | 4000K | 12,000 | UNIVERSAL | PENDANT | EXPOSED | HIGH | | COOPER,CURRENT | 1,2 |
| HBE | SAME AS HB WITH 15 WATT BATTERY | LITHONIA | CPHB12HEFGLCWDMVOLT40K80CRISSEAPIRCPHB1E15 | 4000K | 12,000 | UNIVERSAL | PENDANT | EXPOSED | HIGH | | COOPER,CURRENT | 1,2,5 |
| WPL | WALL PACK LARGE WITH PHOTO CELL AND MOTION CONTROL 23W | LUMARK | AXCS3A | 3000K | 3500 | UNIVERSAL | WALL | | COORDINATE | | COOPER,CURRENT | 1,2,3,4 |
| WPS | WALL PACK SMALL WITH PHOTO CELL AND MOTION CINTROL 12W | LUMARK | AXCS1A | 3000K | 1800 | UNIVERSAL | WALL | | COORDINATE | | COOPER,CURRENT | 1,2,3,4 |

**GENERAL LIGHTING FIXTURE NOTES:**
SEE SPECIFICATIONS SECTIONS 26 51 00 FOR ADDITIONAL INFORMATION REGARDING LIGHTING FIXTURE AND INSTALLATION REQUIREMENTS. MANUFACTURERS NAMES AND CATALOG NUMBER ARE USED FOR ESTABLISHING THE QUALITY AND PERFORMANCE ONLY. EQUIPMENT MANUFACTURER BY OTHERS ARE EQUALLY ACCEPTABLE PROVIDED THEY MEET OR EXCEED QUALITY, DIMENSIONS AND PERFORMANCE. CONTRACTOR SHALL SUBMIT FOR FOCUS ON ENERGY REBATES. ALL FIXTURES SHALL BE DLC LISTED IF AVAILABLE.

**LIGHTING FIXTURE NOTES:**
1. FIXTURE MODEL NUMBER MAY NOT REFLECT ALL MOUNTING HARDWARE. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY MOUNTING EQUIPMENT, LENSES, STEMS, SAFETY CHAINS END PLATES AND ALL OTHER HARDWARE NECESSARY FOR A COMPLETE INSTALLATION. SEE MOUNTING DETAILS WHEN APPLICABLE.
2. COORDINATE LOCATION WITH EQUIPMENT AND OWNER.
3. PROVIDE WITH INTEGRAL PC FOR TYPE FL, AND PC/MOTION/DIMMING PROGRAMMABLE FOR ALL WALL PACKS. PROVIDE FULL PROGRAMMING AND TRAINING WITH OWNER.
4. PROVIDE MOUNTING BRACKET FOR WALL TYPE.
5. PROVIDE LIGHT POINT BY POINT LIGHT CALCULATIONS FOR ALL EGRESS PATHS.

## LIGHTING CONTROL PANEL (LCP)

| RELAY # | CIRCUIT # | CONTROL SWITCHES | AREA CONTROLLED |
|---|---|---|---|
| CR1 | SB-12 | PHOTO CELL/TIME CLOCK | BUILDING MOUNTED SIGN |
| CR2 | SPARE | | |
| CR3 | SPARE | | |
| CR4 | SPARE | | |

NOTES:
- PROVIDE PHOTO CELL ON ROOF FACING NORTH.
- COORDINATE ALL SET TIMES WITH OWNER.

## VACANCY/OCCUPANCY SENSORS

| DES. | DESCRIPTION | MFG. | PART # | MTG. HT |
|---|---|---|---|---|
| MS | 8'-12' CEILING MOUNT DUAL TECH., 2000' COVERAGE, LOW VOLTAGE | SENSORSW. | CM | CEILING |
| MSD | WALL MOUNT DT OCCUPANCY WITH DIMMING SWITCH. COORD. COLORS W/ARCHITECT | SENSORSW. | WSXD | WALL |
| MS1 | WALL MOUNT DT OCCUPANCY SENSOR SWITCH. COORD. COLORS W/ARCHITECT | SENSORSW. | WSX | WALL |

NOTES:
- E.C. SHALL PROVIDE A POWER PACK RELAY RATED AT 20 AMPS.
- E.C. SHALL PROVIDE SENSOR LOCATION LAYOUT PER MOTION SENSOR MANUFACTURER FOR EACH ROOM WITH DEVICE SHOP DRAWING SUBMITTAL.
- INTER-CONNECT MULTIPLE MOTION SENSORS IN ONE ROOM PER MANUFACTURER.
- CONNECT ALL MOTION SENSORS IN CIRCUIT AHEAD OF ROOM SWITCHING.
- PROVIDE 5' SLACK CABLE ABOVE CEILING ON ALL MOTION SENSORS TO ALLOW FOR MINOR LOCATION ADJUSTMENTS.

# MOTOR, HVAC & EQUIPMENT SCHEDULE

| PLAN SYMBOL | CIRCUIT NUMBER | FEEDER SIZE | CHARACTERISTICS | | | DISCONNECT DEVICE | | | | STARTER | | | | | CONTROLS/CONTROL WIRING | | | | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | KW HP-FLA | VOLTS/ PHASE | UNIT LOCATION | CHARACTERISTICS | NEMA TYPE | PROVIDED BY | LOCATION | CHARACTERISTICS | NEMA SIZE | NEMA TYPE | PROVIDED BY | LOCATION | CHARACTERISTICS | WIRE BY | PROVIDED BY | LOCATION | |
| DF-1 | B-1 | 2-#12+1-#12 GND | 55 W | 120V,1PH | 101 | MOTOR RATED SNAP SWITCH | 1 | E.C. | AT UNIT | INTEGRAL | | | | | LOW VOLTAGE CONTROL | M.C. | M.C. | COORDINATE | 1 |
| DF-2 | B-1 | 2-#12+1-#12 GND | 55 W | 120V,1PH | 101 | MOTOR RATED SNAP SWITCH | 1 | E.C. | AT UNIT | INTEGRAL | | | | | LOW VOLTAGE CONTROL | M.C. | M.C. | COORDINATE | 1 |
| DF-3 | A-25 | 2-#12+1-#12 GND | 55 W | 120V,1PH | 108 | MOTOR RATED SNAP SWITCH | 1 | E.C. | AT UNIT | INTEGRAL | | | | | LOW VOLTAGE CONTROL | M.C. | M.C. | COORDINATE | 1 |
| DF-4 | A-25 | 2-#12+1-#12 GND | 55 W | 120V,1PH | 108 | MOTOR RATED SNAP SWITCH | 1 | E.C. | AT UNIT | INTEGRAL | | | | | LOW VOLTAGE CONTROL | M.C. | M.C. | COORDINATE | 1 |
| DF-5 | A-25 | 2-#12+1-#12 GND | 55 W | 120V,1PH | 108 | MOTOR RATED SNAP SWITCH | 1 | E.C. | AT UNIT | INTEGRAL | | | | | LOW VOLTAGE CONTROL | M.C. | M.C. | COORDINATE | 1 |
| DF-6 | A-25 | 2-#12+1-#12 GND | 55 W | 120V,1PH | 108 | MOTOR RATED SNAP SWITCH | 1 | E.C. | AT UNIT | INTEGRAL | | | | | LOW VOLTAGE CONTROL | M.C. | M.C. | COORDINATE | 1 |
| DHP-1 | B-5,7 | 2-#10+1-#10 GND | 22.3 MCA | 240V,1PH | 108 | MOTOR RATED SNAP SWITCH | 1 | E.C. | AT UNIT | INTEGRAL | | | | | HVAC CONTROLS | M.C. | M.C. | COORDINATE | 1 |
| DHP-1A | B-5,7 | 2-#12+1-#12 GND | FRACTIONAL | 240V,1PH | 102 | MOTOR RATED SNAP SWITCH | 1 | E.C. | AT UNIT | INTEGRAL | | | | | HVAC CONTROLS | M.C. | M.C. | COORDINATE | 1 |
| DHP-2 | SB-35,37 | 2-#12+1-#12 GND | 13.9 MCA | 240V,1PH | 108 | MOTOR RATED SNAP SWITCH | 1 | E.C. | AT UNIT | INTEGRAL | | | | | HVAC CONTROLS | M.C. | M.C. | COORDINATE | 1 |
| DHP-2A | SB-35,37 | 2-#12+1-#12 GND | FRACTIONAL | 240V,1PH | 105 | MOTOR RATED SNAP SWITCH | 1 | E.C. | AT UNIT | INTEGRAL | | | | | HVAC CONTROLS | M.C. | M.C. | COORDINATE | 1 |
| DHP-3 | SB-39,41 | 2-#12+1-#12 GND | 13.9 MCA | 240V,1PH | 108 | MOTOR RATED SNAP SWITCH | 1 | E.C. | AT UNIT | INTEGRAL | | | | | HVAC CONTROLS | M.C. | M.C. | COORDINATE | 1 |
| DHP-3A | SB-39,41 | 2-#12+1-#12 GND | FRACTIONAL | 240V,1PH | 107 | MOTOR RATED SNAP SWITCH | 1 | E.C. | AT UNIT | INTEGRAL | | | | | HVAC CONTROLS | M.C. | M.C. | COORDINATE | 1 |
| DHP-4 | A-27,29 | 2-#12+1-#12 GND | 13.9 MCA | 240V,1PH | ON LID | MOTOR RATED SNAP SWITCH | 1 | E.C. | AT UNIT | INTEGRAL | | | | | HVAC CONTROLS | M.C. | M.C. | COORDINATE | 1 |
| DHP-4A | A-27,29 | 2-#12+1-#12 GND | FRACTIONAL | 240V,1PH | 110 | MOTOR RATED SNAP SWITCH | 1 | E.C. | AT UNIT | INTEGRAL | | | | | HVAC CONTROLS | M.C. | M.C. | COORDINATE | 1 |
| DHP-5 | A-31,33 | 2-#12+1-#12 GND | 13.9 MCA | 240V,1PH | ON LID | MOTOR RATED SNAP SWITCH | 1 | E.C. | AT UNIT | INTEGRAL | | | | | HVAC CONTROLS | M.C. | M.C. | COORDINATE | 1 |
| DHP-5A | A-31,33 | 2-#12+1-#12 GND | FRACTIONAL | 240V,1PH | 114 | MOTOR RATED SNAP SWITCH | 1 | E.C. | AT UNIT | INTEGRAL | | | | | HVAC CONTROLS | M.C. | M.C. | COORDINATE | 1 |
| DWCP-1 | A-13 | 2-#12+1-#12 GND | FRACTIONAL | 120V,1PH | 113 | MOTOR RATED SNAP SWITCH | 1 | E.C. | AT UNIT | INTEGRAL | | | | | TIME CLOCK/AQUASTAT | E.C. | P.C. | COORDINATE | 2 |
| EF-1 | A-37 | 2-#12+1-#12 GND | 3/4 HPVG | 120V,1PH | 108 | INTEGRAL | | | | RELAY | | 1 | E.C. | | INITIATED BY CO/NO2/TC | M.C. | M.C. | COORDINATE | 1 |
| EF-2 | A-39 | 2-#12+1-#12 GND | 3/4 HPVG | 120V,1PH | 108 | INTEGRAL | | | | RELAY | | 1 | E.C. | | INITIATED BY CO/NO2/TC | M.C. | M.C. | COORDINATE | 1 |
| EF-3 | B-3 | 2-#12+1-#12 GND | 1/4 HPVG | 120V,1PH | 101 | INTEGRAL | | | | RELAY | | 1 | E.C. | | INITIATED BY CO/NO2/TC | M.C. | M.C. | COORDINATE | 1 |
| EF-4 | B-3 | 2-#12+1-#12 GND | 1/4 HPVG | 120V,1PH | 101 | INTEGRAL | | | | RELAY | | 1 | E.C. | | INITIATED BY CO/NO2/TC | M.C. | M.C. | COORDINATE | 1 |
| EF-5 | B-9 | 2-#12+1-#12 GND | .06 HP | 120V,1PH | 104 | MOTOR RATED SNAP SWITCH | 1 | E.C. | AT UNIT | RELAY | | 1 | E.C. | | INTERLOCK WITH LIGHTS | E.C. | M.C. | COORDINATE | 1 |
| EF-6 | B-9 | 2-#12+1-#12 GND | .06 HP | 120V,1PH | 106 | MOTOR RATED SNAP SWITCH | 1 | E.C. | AT UNIT | INTEGRAL | | | | | RUNS CONT. | M.C. | M.C. | COORDINATE | 1 |
| EF-7 | A-35 | 2-#12+1-#12 GND | .06 HP | 120V,1PH | 111 | MOTOR RATED SNAP SWITCH | 1 | E.C. | AT UNIT | RELAY | | 1 | E.C. | | INTERLOCK WITH LIGHTS | E.C. | M.C. | COORDINATE | 1 |
| EF-8 | A-35 | 2-#12+1-#12 GND | .06 HP | 120V,1PH | 113 | MOTOR RATED SNAP SWITCH | 1 | E.C. | AT UNIT | RELAY | | 1 | E.C. | | INTERLOCK WITH LIGHTS | E.C. | M.C. | COORDINATE | 1 |
| ERP-1 | B-9 | 2-#12+1-#12 GND | 375 W | 120V,1PH | 104 | INTEGRAL | | | | INTEGRAL | | | | | LINE VOLTAGE THERMOSTAT | E.C. | M.C. | COORDINATE | 1 |
| ERP-2 | A-35 | 2-#12+1-#12 GND | 375 W | 120V,1PH | 111 | INTEGRAL | | | | INTEGRAL | | | | | LINE VOLTAGE THERMOSTAT | E.C. | M.C. | COORDINATE | 1 |
| ERP-3 | A-35 | 2-#12+1-#12 GND | 375 W | 120V,1PH | 113 | INTEGRAL | | | | INTEGRAL | | | | | LINE VOLTAGE THERMOSTAT | E.C. | M.C. | COORDINATE | 1 |
| ERV-1 | B-11 | 2-#12+1-#12 GND | 6.4 MCA | 120V,1PH | 102 | MOTOR RATED SNAP SWITCH | 1 | E.C. | | RELAY | | 1 | E.C. | | INTERLOCK WITH OCC. MODE OF DHF-1 | M.C. | M.C. | COORDINATE | 1 |
| GWH-1 | A-13 | 2-#12+1-#12 GND | FRACTIONAL | 120V,1PH | | MOTOR RATED SNAP SWITCH | 1 | E.C. | | INTEGRAL | | | | | PLUMBING CONTROLS | P.C. | P.C. | COORDINATE | 2 |
| H-1 | B-32 | 2-#12+1-#12 GND | FRACTIONAL | 120V,1PH | 107 | INTEGRAL | | | | INTEGRAL | | | | | LOW VOLT. ADA TOUCH SCREEN | M.C. | M.C. | COORDINATE | 1 |
| LP-1 | SB-18,20 | CORD BY P.C. | 14.5 FLA | 240V,1PH | 108 | ONE DISCONNECT FOR PANEL | 1 | E.C. | AT UNIT | INTEGRAL | | | | | ONE PANEL FEEDS BOTH PUMPS | P.C. | P.C. | COORDINATE | 2,5 |
| LP-2 | SB-18,20 | CORD BY P.C. | 14.5 FLA | 240V,1PH | 108 | | | | | | | | | | | | | | 2,5 |
| OHD-1 | SB-11 | 2-#12+1-#12 GND | FRACTIONAL | 120V,1PH | 108 | RECEPTACLE | | E.C. | AT UNIT | INTEGRAL | | | | | SENSORS & PB IN CONDUIT | E.C. | G.C. | COORDINATE | 3,4 |
| OHD-2 | SB-13 | 2-#12+1-#12 GND | FRACTIONAL | 120V,1PH | 108 | RECEPTACLE | | E.C. | AT UNIT | INTEGRAL | | | | | SENSORS & PB IN CONDUIT | E.C. | G.C. | COORDINATE | 3,4 |
| OHD-3 | SB-15 | 2-#12+1-#12 GND | FRACTIONAL | 120V,1PH | 108 | RECEPTACLE | | E.C. | AT UNIT | INTEGRAL | | | | | SENSORS & PB IN CONDUIT | E.C. | G.C. | COORDINATE | 3,4 |
| OHD-4 | SB-17 | 2-#12+1-#12 GND | FRACTIONAL | 120V,1PH | 108 | RECEPTACLE | | E.C. | AT UNIT | INTEGRAL | | | | | SENSORS & PB IN CONDUIT | E.C. | G.C. | COORDINATE | 3,4 |
| OHD-5 | SB-19 | 2-#12+1-#12 GND | FRACTIONAL | 120V,1PH | 101 | RECEPTACLE | | E.C. | AT UNIT | INTEGRAL | | | | | SENSORS & PB IN CONDUIT | E.C. | G.C. | COORDINATE | 3,4 |
| OHD-6 | SB-21 | 2-#12+1-#12 GND | FRACTIONAL | 120V,1PH | 101 | RECEPTACLE | | E.C. | AT UNIT | INTEGRAL | | | | | SENSORS & PB IN CONDUIT | E.C. | G.C. | COORDINATE | 3,4 |
| OHD-7 | SB-23 | 2-#12+1-#12 GND | FRACTIONAL | 120V,1PH | 101 | RECEPTACLE | | E.C. | AT UNIT | INTEGRAL | | | | | SENSORS & PB IN CONDUIT | E.C. | G.C. | COORDINATE | 3,4 |
| SCBA-1 | A-15,17 | 2-#6+1-#10 GND | COORD. W/OWNER | 240V,1PH | 108 | HEAVY DUTY, NON-FUSED | | E.C. | AT UNIT | INTEGRAL | | | | | COORDINATE | G.C. | G.C. | COORDINATE | 1 |
| UH-1 | SB-25 | 2-#12+1-#12 GND | 1/2 HP | 120V,1PH | 108 | MOTOR RATED SNAP SWITCH | 1 | E.C. | AT UNIT | INTEGRAL | | | | | HVAC CONTROLS | M.C. | M.C. | COORDINATE | 1 |
| UH-2 | SB-27 | 2-#12+1-#12 GND | 1/4 HP | 120V,1PH | 108 | MOTOR RATED SNAP SWITCH | 1 | E.C. | AT UNIT | INTEGRAL | | | | | HVAC CONTROLS | M.C. | M.C. | COORDINATE | 1 |
| UH-3 | SB-29 | 2-#12+1-#12 GND | 1/4 HP | 120V,1PH | 108 | MOTOR RATED SNAP SWITCH | 1 | E.C. | AT UNIT | INTEGRAL | | | | | HVAC CONTROLS | M.C. | M.C. | COORDINATE | 1 |
| UH-4 | SB-31 | 2-#12+1-#12 GND | 1/4 HP | 120V,1PH | 101 | MOTOR RATED SNAP SWITCH | 1 | E.C. | AT UNIT | INTEGRAL | | | | | HVAC CONTROLS | M.C. | M.C. | COORDINATE | 1 |
| UH-5 | SB-33 | 2-#12+1-#12 GND | .06 HP | 120V,1PH | 101 | MOTOR RATED SNAP SWITCH | 1 | E.C. | AT UNIT | INTEGRAL | | | | | HVAC CONTROLS | M.C. | M.C. | COORDINATE | 1 |

**NOTES:**
1. SEE MECHANICAL SHEETS FOR LOCATION OF EQUIPMENT AND COORDINATION OF WORK.
2. SEE PLUMBING SHEETS FOR LOCATION OF EQUIPMENT AND COORDINATION OF WORK.
3. SEE ARCHITECTURAL SHEETS AND GENERAL CONTRACTOR FOR LOCATION OF EQUIPMENT AND COORDINATION OF WORK.
4. LOW VOLTAGE CONTROL WIRING SHALL BE INSTALLED IN CONDUIT.
5. 240V AND 120V CONNECTIONS REQUIRED TO CONTROL PANEL BY E.C., ALL CONNECTIONS FROM CONTROL PANEL TO PUMPS AND FLOATS BY P.C.

**ABBREVIATIONS:**

| | |
|---|---|
| DF | DESTRATIFICATION FAN |
| DHP | DUCTLESS SPLIT SYSTEM HEAT PUMP |
| DWCP | DOMESTIC WATER CIRCULATION PUMP |
| EDH | ELECTRIC DUCT HEATER |
| ERP | ELECTRIC RADIANT PANEL HEATER |
| ERV | ENERGY RECOVERY UNIT |
| GWH | GAS WATER HEATER |
| H | HOOD |
| LP | LIFT PUMP (COORDINATE WITH P.C.) |
| UH | UNIT HEATER |


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ELECTRICAL LIGHTING & EQUIPMENT SCHEDULES

REVISIONS:

| NO. | DATE |
|---|---|
| | |

ISSUE DATE:
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E402

L&P PROJECT # 26057

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