Centerville-Abington Community Schools Centerville-Abington Transportation Building

Centerville, Indiana

473003

Architect:

Moake Park Group, Inc. 7223 Engle Rd. Suite 200 Ft. Wayne, IN 46804 ph. (260) 424-6516 fx. (260) 424-6309 web: www.moakepark.com

Structural Engineer:

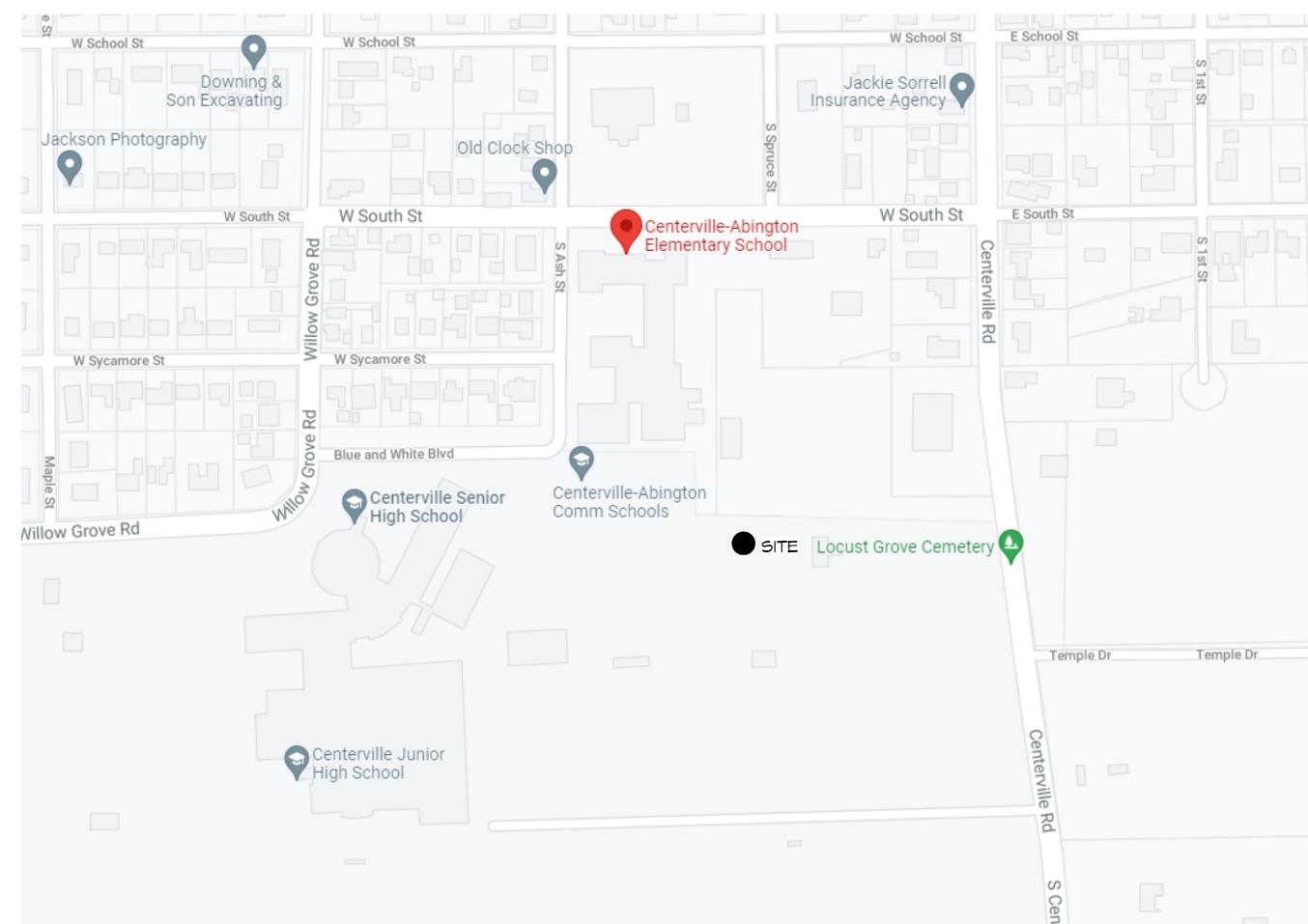
Structural Engineering Services, LLC 15610 Lima Rd. Huntertown, IN 46748 ph. (260) 637-7867 web: www.structuralengr.com

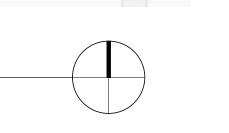
MEP Engineer:

SCO Engineering, LLC 6534 Constitution Dr. Ft. Wayne, IN 46804 ph. (260) 436-9213 fx. (260) 432-5481 web: http://www.sco-llc.com

Civil Engineer:

Engineering Resources, Inc. 4175 New Vision Dr. Ft. Wayne, IN 46845 ph. (260) 490-1025 web: www.eri.consulting





Site Location Map



Drawing List

Topographic Survey Site Demolition Plan FP2.1 First Floor Fire Protection Plan Site Layout Plan FP2.2 Mezzanine Fire Protection Plan FPG1.0 Fire Protection and Plumbing General Notes Site Grading Plan Underground Plumbing Plan Site Construction Erosion Control Plan P2.1 Plumbing Plans Visual Plumbing Schedule Erosion Control Details P6.1 Plumbing Schedules NM Site Plans and Alternate #7 Site Details Site Details Structural Mechanical Schedules 51.1 Foundation Plan Lift Pit Enlarged Plan and Details MG1.0 Mechanical General Notes Mezzanine Framing Plan Electrical CE1.1 Electrical Site Power Plan AO.1 First Floor Code Study, Life Safety Plans, Legends and Notes CE2.1 Electrical Site Lighting Plan A2.1 First Floor & Mezzanine Plan E1.1 First Floor Electrical Power Plan A2.20 Enlarged Floor Plans & Toilet Accessory Schedule Second Floor Electrical Power Plan First Floor Electrical Lighting Plan A3.1 First Floor Reflected Ceiling Plan & Roof Plan A4.0 Door & Window Schedule and Details Second Floor Electrical Lighting Plan A4.10 Door Details E3.1 First Floor Electrical Systems Plan A5.0 Overall Reference Building Elevations and Sections Second Floor Electrical Systems Plan A6.10 Typ. Wall Sections Electrical Details A6.15 Stair Sections & Details Electrical Schedules A6.17 Alternate #5 Canopy Plan, Sections, and Details EG1.0 Electrical General Notes A6.30 Enlarged Floor and Roof Conditions

Drawing List

A8.0 Building Floor Finish, Equipment and Casework Plan



Commission No. 473003 Date: 3/2/2022





RESULTS.

ForeSight

Performed for:

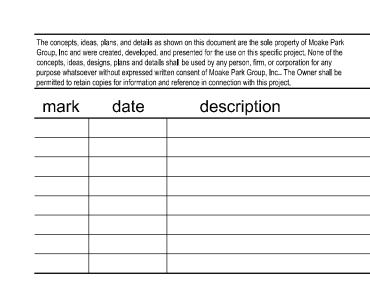
Drawing Revisions

Commission Number

CHOOL

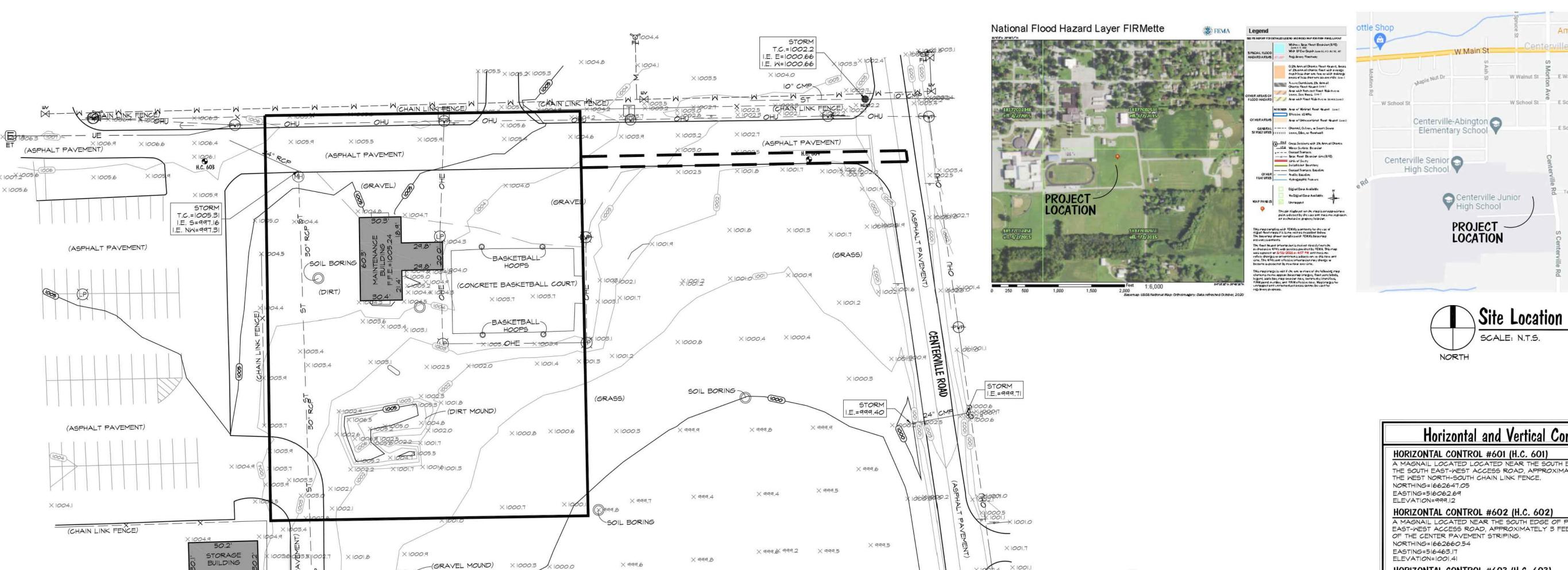
A PROJECT FOR:





Topographic Survey

date: March 2, 2022 ____project: 473003 coordinator: DLR C0.0



× 999.2

× 999.4

× 999.6

X 999.7

X 1000.6

X 1000.3

₱.K. NAIL FOUND

@ IRON PIN FOUND

O BENCH MARK

GUY ANCHOR

ELECTRIC PANEL

DECIDUOUS TREE AIR CONDITIONING UNIT IN WATER METER

SECTION CORNER

EXISTING FINISH FLOOR

RIGHT-OF-WAY MARKER & YARD LIGHT

Topographic Survey Symbols Legend

X 999.4

× 999.5

× 999.4

(GRASS)

× 999.4

X 999.4

× 999.9

MANHOLE

O CLEAN OUT

ROUND INLET

SQUARE INLET

CURB-CAST INLET

MONITORING WELL . SIGN

& HANDICAP STRIPING - PARKING BLOCK

HANDICAP ACCESS RAMP E ELECTRIC BOX

DOWN SPOUT

M WATER VALVE

SOIL BORING

× 998.3 × 998.7

× 998.0 × 998.5 × 998.3

(× 999.0

X 1000.4

(GRASS)

X1000.8/

X 1001.2

×1001.8

X 1001.4

X 1001.3

X 1001.2

CABLE TV PEDESTAL

Flag Pole FLAG POLE

E LIGHT POLE

- M - MATER LINE

MOODED AREAS

- ST- STORM SEWER LINE

-OHT- OVERHEAD TELEPHONE

-OHE- OVERHEAD ELECTRIC

- UE - UNDERGROUND ELECTRIC

- UT - UNDERGROUND TELEPHONE

- 6AS- UNDERGROUND GAS LINE

-OHU- OVERHEAD UTILITY

-FOC- UNDERGROUND FIBER

OPTIC CABLE

TELEPHONE PEDESTAL

X 1001.4 X 1001.5

X 1001.2

×1000.2

X 1000.6

X1000.4

X 1000.4

X 10005

X 1000.8

(ASPHALT PAVEMENT)

POST INDICATOR VALVE

H FIRE HYDRANT

O YARD HYDRANT

■ GAS METER

M GAS VALVE

GAS PUMP

O POWER POLE

P ELECTRIC METER

10000052X 1001.3

T.C.=1001.79

E. NE=999.43

.E. SW=998.42

X 1000.5

×1000.2 × 1000.9

(DIRT MOUND)

- (DIRT MOUND) 997.6

/ X 997.9

STORM T.C.=998.79 I.E. N=993.79

X 998.6

1093 803.8 100 × 100 × 100 × 100

NORTH

002 × 10013 0 999.9 × 999.5 999.0

× 999.3

X 998.4

× 997.7 × 998.6

× 998.8

X 999.4

× 999.2

/× 997.7

(GRASS)

× 996/2 997.9 × 997.6

X 997.6 × 299414

X 997.5

-(999) X 999.0

X 998.7

X 998,4 STORM

T.C.=997.50

X 997 9 1.E. SW=998.10 998.6

.E. NE=999.30

(CHAIN LINK FENCE)

STORM T.C.=1002.60

I.E. N=995.60

I.E. S=995.50

Topographic Survey Positional Accuracy Standards

Based on the National Society of Professional Surveyors Model Standards for Topographic Surveys <u>Vertical Accuracy Tolerance (Feet)</u> <u>Horizontal Accuracy Tolerance (Feet)</u> Contour Line (1 Foot Interval) 0.65' plus or minus 1' plus or minus Contour Line (5 Foot Interval) 3.20' plus or minus 4' plus or minus Contour Line (10 Foot Interval) 6.50' plus or minus 8' plus or minus Finish Floor Elevations 0.05' plus or minus 1' plus or minus Spot Paving Elevations 0.05' plus or minus 1' plus or minus Spot Ground Elevations 0.20' plus or minus 2' plus or minus Sewer Invert Elevations 0.05' plus or minus 1' plus or minus Well Defined Planimetric Features 0.10' plus or minus 1' plus or minus Positional Accuracy is given at the 95% confidence interval level

General Notes:

ELEVATION=1002.60 (NAVD 1988)

DAMAGES FOR WHICH YOU WILL BE LIABLE. BEFORE DIGGING OR EXCAVATING ON YOUR PROPERTY YOU ARE REQUIRED TO CHECK FOR THE PRESENCE OF UTILITIES BY CALLING 1-800-382-5544. ADDITIONAL UTILITIES MAY NOT BE INCLUDED IN THE TO CONTACT EACH OF THESE UTILITY PROVIDERS.

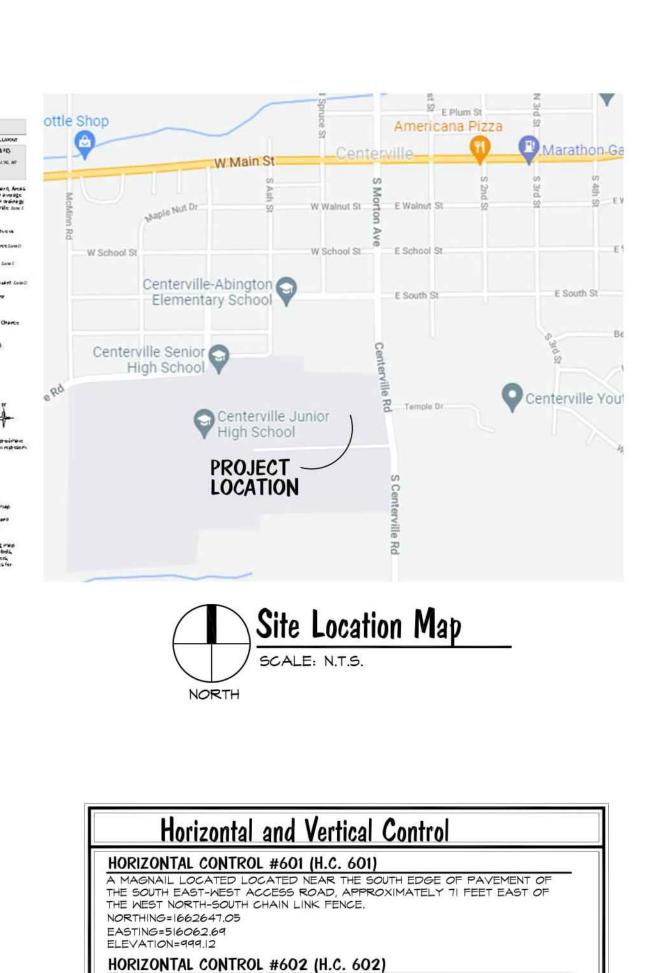
- SURVEYING SERVICES PROVIDED. FEDERAL AND STATE LEGISLATION HAS DEFINED IMPROVEMENT OF YOUR PROPERTY. YOU SHOULD CONSULT WITH YOUR STATE ENVIRONMENTAL PROTECTION AGENCY FOR A MORE DETAILED EXPLANATION ON IDENTIFYING WETLANDS AND LAWS MEANT TO ENSURE THEIR PROTECTION.
- 5. THIS DRAWING IS NOT INTENDED TO BE PRESENTED AS A TRACEMENT OR ORIGINAL

STATE OF INDIANA, HEREBY CERTIFIES THAT HE HAS CONDUCTED THIS

IN WITNESS WHEREOF, I HEREUNTO PLACE MAY HAND AND SEAL THIS 3IST DAY OF AUGUST, 2021.

MOAKE PARK GROUP

29800007 Todd R. Bauer, PS No. 2980000



A MAGNAIL LOCATED NEAR THE SOUTH EDGE OF PAVEMENT OF THE SOUTH EAST-WEST ACCESS ROAD, APPROXIMATELY 3 FEET WEST OF THE WEST END HORIZONTAL CONTROL #603 (H.C. 603) A MAGNAIL LOCATED APPROXIMATELY 3 FEET NORTH OF THE SOUTH EDGE OF PAVEMENT OF THE NORTH EAST-WEST ACCESS DRIVE, NEAR THE CENTER NORTHEAST ACCESS TO THE NORTHWEST PARKING LOT. NORTHING=1663265.15 EASTING=515941.24 ELEVATION=1006.03 TEMPORARY ONSITE BENCHMARK #777 (T.B.M. #777) THE NORTH RIM OF AN EXISTING STORM MANHOLE LOCATED NEAR THE CENTER OF THE WESTERN NORTH-SOUTH ACCESS DRIVE, APPROXIMATELY 27 FEET SOUTH OF THE SOUTHEAST CORNER OF THE 30'X50' STORAGE

- 1. THE LOCATION AND DIMENSIONS OF ALL BUILDING STRUCTURES ON THE FACE OF THIS SURVEY (IF APPLICABLE) ARE NOT INTENDED FOR STRUCTURAL DESIGN.
- 2. UTILITIES DEPICTED ON THE WITHIN PLAT OF SURVEY WERE LOCATED FROM ABOVE-GROUND PHYSICAL EVIDENCE AND APPURTENANCES. NO UTILITY LOCATION SERVICE WAS REQUESTED FOR THIS SURVEY. DISTURBING UNDERGROUND UTILITIES MAY RESULT IN SUBSTANTIAL PENALTIES AND

ONE-CALL UTILITY LOCATION SERVICE AND IT IS YOUR ADDITIONAL RESPONSIBILITY 3. THE IDENTIFICATION AND DELINEATION OF WETLANDS WERE NOT A PART OF THE AND ESTABLISHED RESTRICTIONS FOR THE PROTECTION OF WETLANDS. THE PRESENCE OF WETLANDS ON OR NEAR YOUR PROPERTY WILL LIMIT OR RESTRICT THE USE AND

4. ELEVATIONS ON THIS SURVEY ARE BASED UPON THE NORTH AMERICAN VERTICAL

Boundary survey, a route survey, or a surveyor Location report Professional Surveyor's Certification THE UNDERSIGNED LAND SURVEYOR, REGISTERED UNDER THE LAWS OF THE

TOPOGRAPHICAL AND UTILITY SURVEY, UNDER HIS DIRECT SUPERVISION. COMMISSION NUMBER:

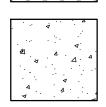
DATES OF FIELD WORK: AUGUST 25TH, 2021 FIELD WORK COMPLETED: AUGUST 25TH, 2021 todd@4site.biz

checked: MDR

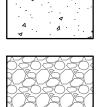


DEMOLITION LEGEND:

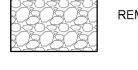
SAWCUT AND REMOVE ASPHALT PAVEMENT.



SAWCUT AND REMOVE CONCRETE SIDEWALK, DRIVE, OR SLAB.



REMOVE STONE DRIVE.



→ ·* · / → · /* · / → REMOVE FENCE.

REMOVE OR ABANDON UTILITY, AS REQUIRED, FOR ******* NEW CONSTRUCTION. COORDINATE ALL WORK WITH UTILITY OWNER.

DEMOLITION NOTES:

- (1) REMOVE BUILDING INCLUDING FOUNDATION.
- 2 ALTERNATE #7: SAWCUT AND REMOVE 12" OF ASPHALT PAVEMENT TO PROVIDE CLEAN EDGE.
- ALTERNATE #6: REMOVE 4' FENCE POST INCLUDING FOUNDATION AND INSTALL FENCE POST FOR 6' TALL FENCE. SEE SITE PLAN LAYOUT PLAN.
- 4 SAWCUT AND REMOVE CONCRETE SIDEWALK/PAVEMENT.
- $\left\langle 5\right\rangle$ REMOVE STONE AREA.
- $\langle 7 \rangle$ REMOVE AND SALVAGE BASKETBALL POST AND BACKBOARD / RIM FOR OWNER.
- $\langle 8 \rangle$ REMOVE POST.
- $\langle 9 \rangle$ REMOVE LIGHT POLE, INCLUDING FOUNDATION.
- $\langle 10 \rangle$ REMOVE UTILITY / LIGHT POLE, INCLUDING FOUNDATION.
- $\langle 12 \rangle$ REMOVE STORM SEWER AND BULKHEAD AT STORM STRUCTURE.

 $\langle 11 \rangle$ REMOVE OVERHEAD ELECTRIC LINE.

- $\langle 13 \rangle$ REMOVE FENCE INCLUDING FOUNDATIONS.
- SAWCUT AND REMOVE ASPHALT PAVEMENT AS NEEDED FOR UTILITY CONSTRUCTION.

GENERAL NOTES:

- 1. OBTAIN ALL REQUIRED PERMITS AND COORDINATE INSPECTIONS FROM AUTHORITIES HAVING JURISDICTION. INCLUDING,
- 2. CONTRACTOR SHALL NOT INTERRUPT ANY SERVICE TO ADJACENT PROPERTIES WITHOUT WRITTEN AUTHORIZATION FROM PROPERTY OWNER. AN EMERGENCY PLAN SHALL BE PROVIDED TO THE ENGINEER PRIOR TO CONSTRUCTION TO OUTLINE CORRECTIVE MEASURES IN THE EVENT OF ANY UNAUTHORIZED UTILITY
- 3. CONTRACTOR SHALL STUDY ALL DRAWINGS PRIOR TO CONSTRUCTION. RESEARCH PUBLIC UTILITY RECORDS, CONTACT THE LOCAL UTILITY LOCATOR SERVICE, AND FIELD VERIFY ALL EXISTING STRUCTURES PRIOR TO CONSTRUCTION. CONTACT ENGINEER FOR DIRECTION IF EXISTING UTILITY CONDITIONS CONFLICT WITH PROPOSED WORK, OR ANY ALTERATIONS SHALL BE THE CONTRACTORS RESPONSIBILITY.
- 4. EXISTING UTILITIES ARE APPROXIMATIONS BASED ON BEST AVAILABLE DATA. CAUTION SHALL BE EXERCISED TO NOT INTERRUPT SERVICE TO ANY BUILDING. EXPLORATORY TRENCH TO VERIFY DEPTH AND LOCATION OF SEWERS PRIOR TO CONSTRUCTION OF NEW SEWER UTILITIES. ASSURE ALL SANITARY FLOW IS DIRECTED INTO THE SANITARY SEWER ON-SITE AND ALL STORM WATER IS DIRECTED INTO THE STORM SEWER SYSTEM.
- 5. CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION REQUIRED BY UTILITY OWNERS TO CONSTRUCT PROJECT.
- 6. PROVIDE RECORD DRAWINGS TO THE OWNER FOR BELOW GRADE IMPROVEMENTS. INCLUDE: MATERIALS OF CONSTRUCTION, SIZE, ELEVATIONS, AND LOCATION DESCRIPTIONS IN THE RECORD. RECORD DRAWINGS SHALL BE CERTIFIED BY A LAND SURVEYOR REGISTERED IN THE STATE OF INDIANA.
- 7. CONTRACTOR SHALL COORDINATE WITH EACH UTILITY PROVIDER TO DETERMINE TOTAL COST OF SERVICE TO BUILDING AND TO INCLUDE IN THE COST OF THE
- 8. CONTRACTOR SHALL LOCATE ALL PRIVATE UTILITIES NOT COVERED BY THE PUBLIC LOCATING SERVICE.
- 9. CONSTRUCTION DE-WATERING AS NECESSARY BY CONTRACTOR.
- 10. ADJUST ANY EXISTING MANHOLES, VALVES, HYDRANTS, AND HANDHOLES, LOCATED WITHIN PROJECT LIMITS, TO PROPOSED GRADES.
- 11. CONTRACTOR SHALL SUPPORT AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION OF ADJACENT WORK.
- 12. SEE SITE SURVEY FOR EXISTING CONDITIONS.
- 13. COORDINATE ALL DEMOLITION WORK WITH OWNER.
- 14. CONTRACTOR IS RESPONSIBLE FOR ALL PERMIT FEES, TAPPING FEES, INSPECTION FEES, ETC.

NORTH SITE ENTRANCE

REMOVE PAVEMENT TO PROVIDE A CLEAN EDGE TO INSTALL NORTH SITE ENTRANCE PAVEMENT.

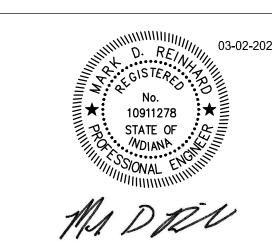






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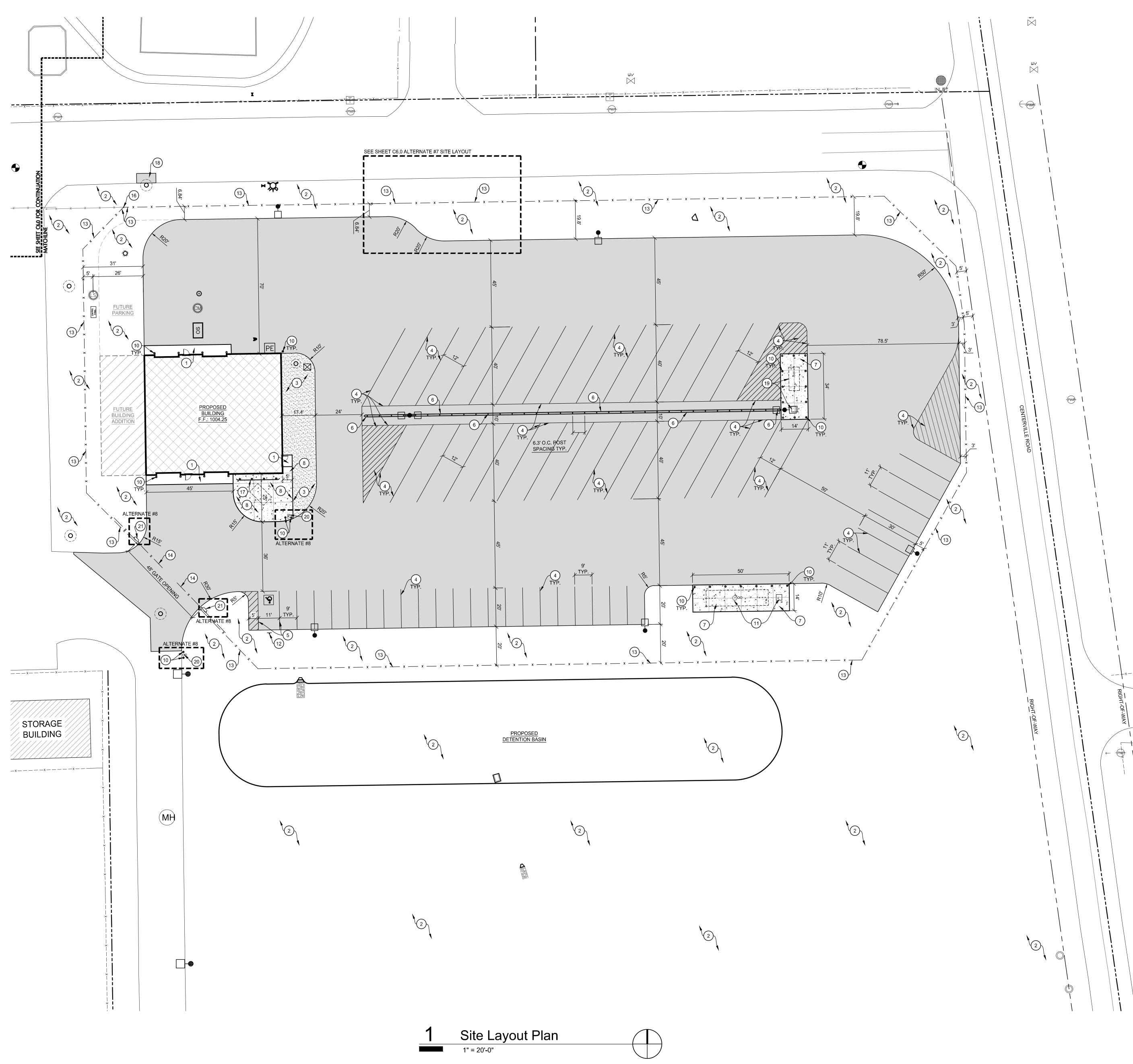
| concepts, ideas, de purpose whatsoeve | signs, plans and details si r without expressed writte | presented for the use on this specific project. None of the hall be used by any person, firm, or corporation for any in consent of Moake Park Group, Inc The Owner shall be reference in connection with this project. |
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date: March 2, 2022

Site Demolition Plan

project: 473003 coordinator: DLR drawn: KRK checked: MDR

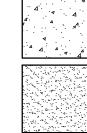
C1.0



LAYOUT LEGEND:

TYPE "A" PAVEMENT PER DETAIL #1/C7.0.

8" CONCRETE PAD PER DETAIL #2/C7.0.



STONE MULCH.

NOTE: ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.

PROPOSED LEGEND:

(() (O) STORM INLET / MANHOLE

STORM END SECTION STORM TRASH RACK

SANITARY MANHOLE

SANITARY CLEANOUT / TYPE IV INLET

CONTROL MANHOLE

OIL SEPARATOR

LIFT STATION

SIGN HANDICAP SYMBOL PER DETAIL #3/C7.0.

● LIGHT POLE

LAYOUT NOTES:

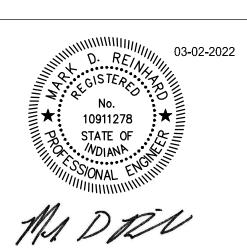
- 1) CONCRETE STOOP, SEE STRUCTURAL DRAWINGS.
- 2 GRASS AREA, ALL DISTURBED AREAS TO RECEIVE PERMANENT SEEDING. SEE SPECIFICATIONS SECTION 329200 "LAWNS &
- (3) 4" DEEP STONE MULCH. STONE MULCH SHALL BE #2 RIVER ROCK (1 $\frac{1}{4}$ " TO 2") WITH WEED BARRIER. PROVIDE A NON-WOVEN FABRIC CONSISTING OF POLYPROPYLENE OR POLYESTER FABRIC, 3 OZ. PER SQ. YD. MIN. TO ALL STONE MULCH BEDS. COMPLETELY COVER AREA TO BE MULCHED-OVERLAPPING EDGES A MIN. OF 6".
- PAVEMENT MARKING SHALL BE 4" YELLOW WATERBORNE PAINT.
- (5) HANDICAP PAVEMENT MARKINGS SHALL BE 4" BLUE WATERBORNE PAINT.
- 6 DOUBLE-FACE, METAL GUARDRAIL WITH I-BEAM POSTS PER DETAIL #9/C7.0.
- (7) 8" CONCRETE FUELING PAD AREA PER DETAIL #2/C7.0.
- 8) 8" CONCRETE DUMPSTER PAD AREA PER DETAIL #2/C7.0.
- 9 <u>ALTERNATE #7:</u> 12" MINIMUM ASPHALT PAVEMENT TO PROVIDE A CLEAN EDGE PER DETAIL #1/C7.0.
- (10) 6" PIPE BOLLARD PER DETAIL #5/C7.0.
- (11) ABOVE GROUND DIESEL FUEL TANK AND FUEL PUMP, BY
- (12) "VAN ACCESSIBLE" HANDICAP SIGN PER DETAIL #4/C7.0.
- (13) <u>ALTERNATE #6:</u> 6' TALL CHAIN LINK FENCE PER DETAIL #8/C7.0.
- ALTERNATE #6: 6' TALL CHAIN LINK FENCE DOUBLE SLIDING GATE PER DETAIL #7/C7.0. ALTERNATE #6 & #7: 6' TALL CHAIN LINK FENCE SINGLE SLIDING GATE PER DETAIL #7/C7.0.
- ALTERNATE #6: 6' TALL CHAIN LINK FENCE CORNER END / POST.
 CONNECT EXISTING 4' TALL CHAIN LINK FENCE TO PROPOSED
 6' TALL CHAIN LINK FENCE PER DETAIL #6/C7.0.
- SINGLE-FACE, METAL GUARDRAIL WITH SURFACE MOUNTED I-BEAM POSTS, PER DETAIL #9/C7.0.
- (18) ASPHALT PAVEMENT AS NEEDED FOR UTILITY INSTALLATION PER DETAIL #1/C7.0.
- (19) ABOVE GROUND GAS FUEL TANK AND FUEL PUMP, BY OTHERS.
- 20) AUTOMATIC SLIDE GATE CARD READER POST WITH ACCESS CONTROL PANEL PER DETAIL #11/C7.0.
- ALTERNATE #8: LINEAR HSLG-421, ¾ HP, 230 VOLT, SINGLE PHASE, COMMERCIAL SLIDE GATE OPERATOR WITH CARD READER OPERATION, OR APPROVED EQUAL. MOUNTED ON TWO - 3" O.D. PIPE PER DETAIL #10/C7.0. SEE SITE ELECTRICAL PLANS FOR POWER INFORMATION.
- ALTERNATE #9: LINEAR HSLG-121, 1 HP, 230 VOLT, SINGLE PHASE, COMMERCIAL SLIDE GATE OPERATOR WITH CARD READER OPERATION, OR APPROVED EQUAL. MOUNTED ON TWO - 3" O.D. PIPE PER DETAIL #10/C7.0. SEE SITE ELECTRICAL PLANS FOR POWER INFORMATION.

| ALTERNATE NOTES: | |
|---|---|
| ALTERNATE #6: SITE FENCING | PROVIDE AND INSTALL SITE FENCING AND MAIN ENTRANCE DOUBLE SLIDING GATE, MANUAL OPERATION. IF ALTERNATE #7 IS ADOPTED, PROVIDE AND INSTALL NORTH ENTRANCE SINGLE SLIDING GATE, MANUAL OPERATION. |
| ALTERNATE #7: NORTH SITE ENTRANCE | PROVIDE AND INSTALL NORTH SITE ENTRANCE PAVEMENT. |
| ALTERNATE #8: MAIN ENTRANCE GATE OPERATOR AND ACCESS CONTROL | PROVIDE AND INSTALL AUTOMATIC GATE OPERATOR AND KEY PAD AND FOB ACCESS TO MAIN ENTRANCE DOUBLE SLIDING GATE IN ALTERNATE #6. |
| ALTERNATE #9: NORTH ENTRANCE GATE OPERATOR AND ACCESS CONTROL | PROVIDE AND INSTALL AUTOMATIC GATE OPERATOR AND KEY PAD AND FOB ACCESS TO NORTH SLIDING GATE IN ALTERNATE #6 & #7 |





ENGINEERING 11020 Diebold Road, Fort Wayne, IN 46845 Ph: (260) 490-1025 Fax: (260) 490-1026 www.eri.consulting



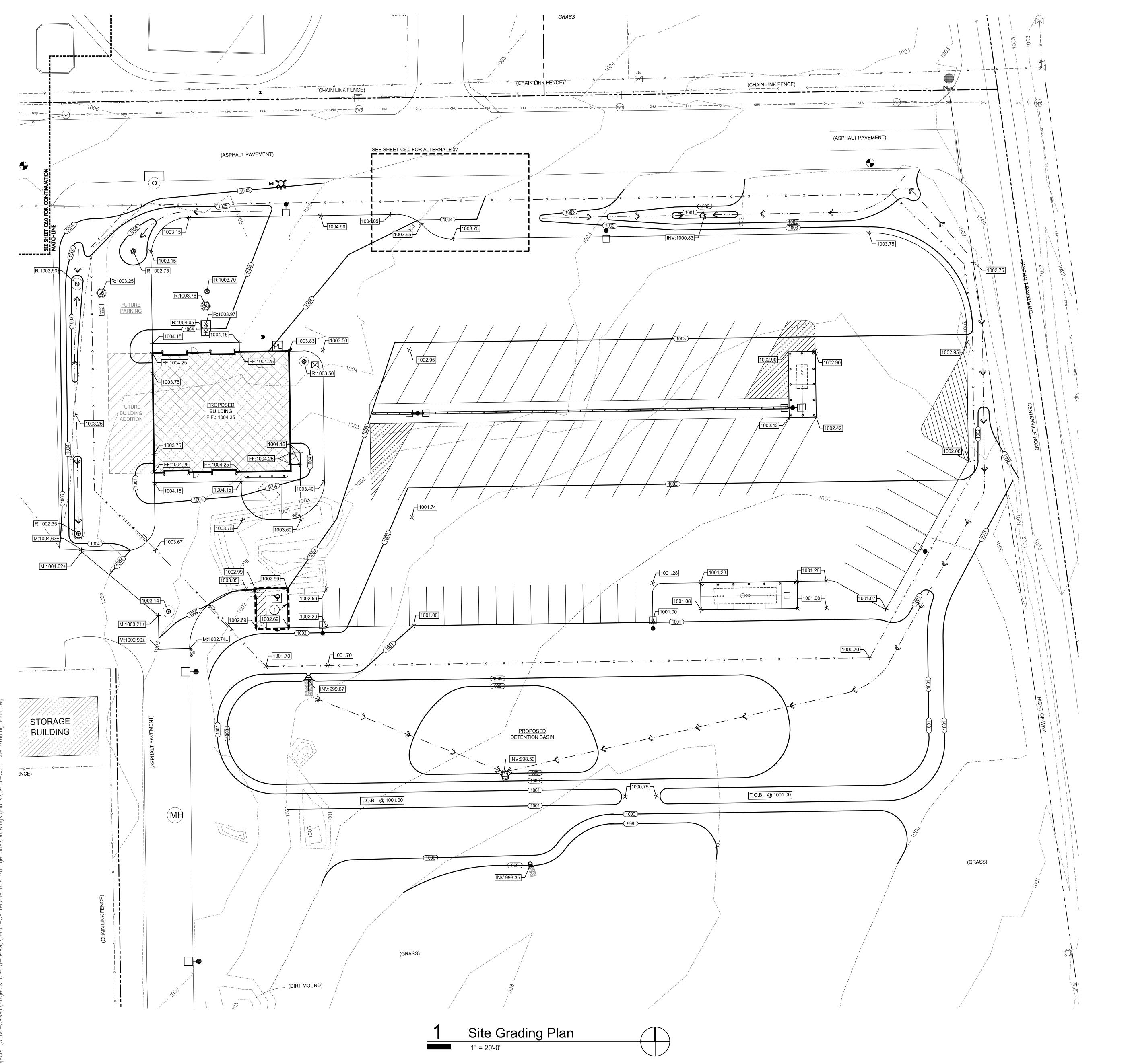
A PROJECT FOR:



| Group, Inc and we concepts, ideas, de purpose whatsoeve | re created, developed, a esigns, plans and details er without expressed writ | shown on this document are the sole property of Moake Pain do presented for the use on this specific project. None of th shall be used by any person, firm, or corporation for any ten consent of Moake Park Group, Inc The Owner shall be do reference in connection with this project. |
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Site Layout Plan

date: March 2, 2022 project: 473003 coordinator: DLR C2.0 drawn: KRK checked: MDR



GRADING LEGEND:

NOTE: ALL ELEVATIONS ARE TO TOP OF PAVEMENT OR LAWN UNLESS NOTED OTHERWISE.

GRADING NOTE:

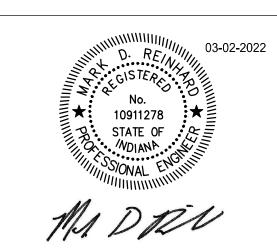
1 HANDICAP ACCESSIBLE PARKING STALLS TO BE CONSTRUCTED WITH LESS THAN 2.0% MAXIMUM SLOPE IN ALL DIRECTIONS.

| ALTERNATE NOTES: | |
|---|---|
| ALTERNATE #6: SITE FENCING | PROVIDE AND INSTALL SITE FENCING AND MAIN ENTRANCE DOUBLE SLIDING GATE, MANUAL OPERATION. IF ALTERNATE #7 IS ADOPTED, PROVIDE AND INSTALL NORTH ENTRANCE SINGLE SLIDING GATE, MANUAL OPERATION. |
| ALTERNATE #7: NORTH SITE ENTRANCE | PROVIDE AND INSTALL NORTH SITE ENTRANCE PAVEMENT. |
| ALTERNATE #8: MAIN ENTRANCE GATE OPERATOR AND ACCESS CONTROL | PROVIDE AND INSTALL AUTOMATIC GATE OPERATOR AND KEY PAD AND FOB ACCESS TO MAIN ENTRANCE DOUBLE SLIDING GATE IN ALTERNATE #6. |
| ALTERNATE #9: NORTH ENTRANCE GATE OPERATOR AND ACCESS CONTROL | PROVIDE AND INSTALL AUTOMATIC GATE OPERATOR AND KEY PAD AND FOB ACCESS TO NORTH SLIDING GATE IN ALTERNATE #6 & #7 |









CENTERVILLE-ABINGTON COMMUNITY SCHOOLS TRANSPORTATION BUILDING

A PROJECT FOR:



| concepts, ideas, de purpose whatsoeve | signs, plans and details sl r without expressed writte | presented for the use on this specific project. None of the nall be used by any person, firm, or corporation for any n consent of Moake Park Group, Inc The Owner shall be reference in connection with this project. |
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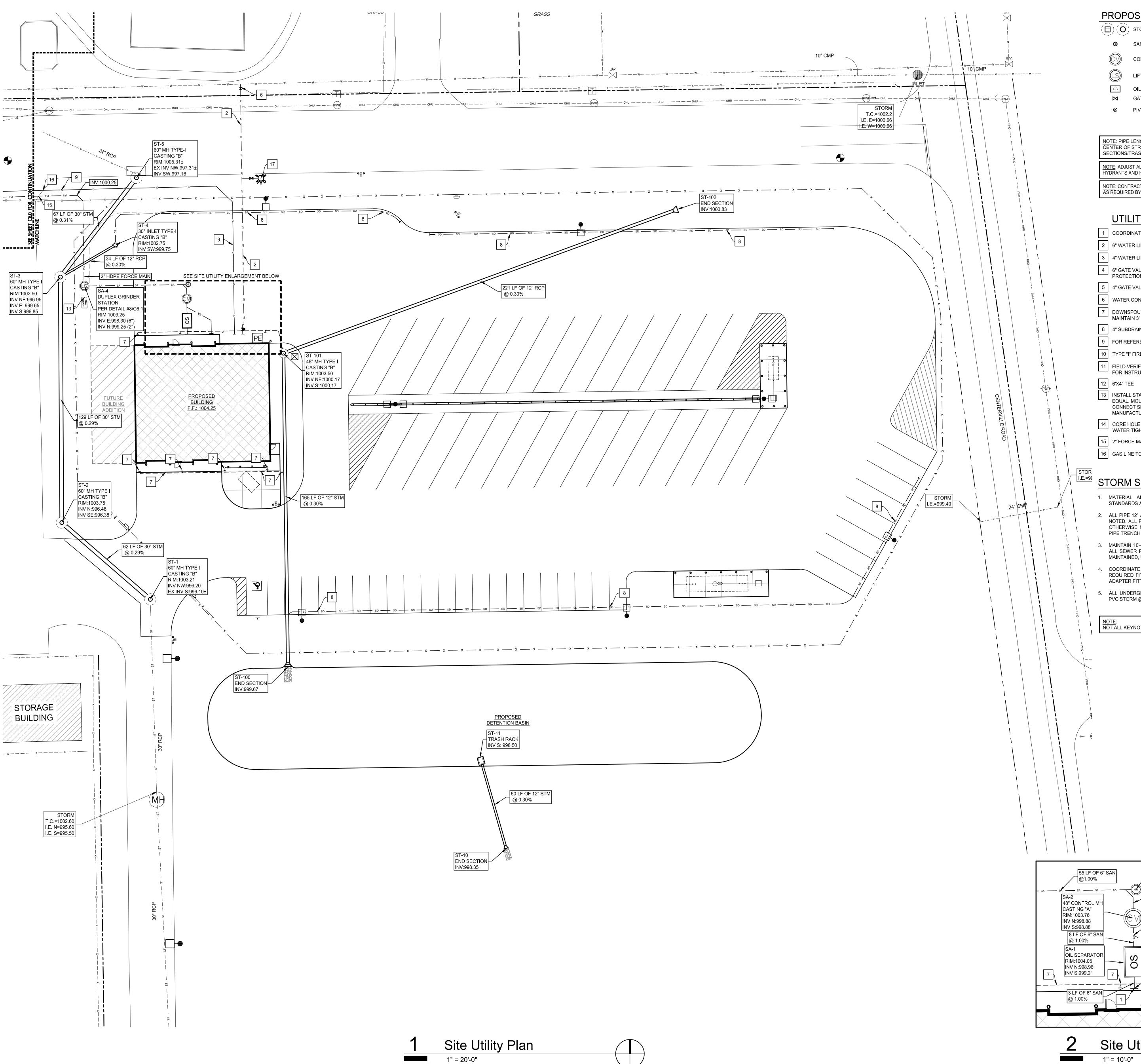
date: March 2, 2022

project: 473003

coordinator: DLR

drawn: CMF

checked: MDR



PROPOSED LEGEND:

() (O) STORM INLET / MANHOLE STORM SEWER SANITARY CLEANOUT — sa — sa — sa — sa — **SANITARY SEWER** —— GAS —— GAS LINE CONTROL MANHOLE LIFT STATION — w — w — w — WATER LINE OIL SEPARATOR — FM —— FM —— FM — FORCE MAIN GATE VALVE ----- GAS ----- GAS LINE — sd — sd — sd — SUBDRAIN

NOTE: PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES AND THE END OF END SECTIONS/TRASH RACKS UNLESS OTHERWISE NOTED NOTE: ADJUST ALL EXISTING MANHOLES, VALVES, IYDRANTS AND HANDHOLES TO PROPOSED GRADES. NOTE: CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL

UTILITY NOTES:

AS REQUIRED BY STATE AND LOCAL AUTHORITIES.

1 COORDINATE CONNECTION WITH THE BUILDING DRAWINGS.

2 6" WATER LINE

3 4" WATER LINE

PROTECTION FOR CONNECTION TO CONTROL SYSTEM.

4 6" GATE VALVE, VALVE BOX, AND POST INDICATOR WITH STATUS SWITCH. SEE FIRE

5 4" GATE VALVE AND VALVE BOX

6 WATER CONNECTION, 6" X 6" TAPPING SLEEVE, VALVE & VALVE BOX.

DOWNSPOUT DRAIN @ MINIMUM 1.00%. CONNECT TO DOWNSPOUTS AS REQUIRED. MAINTAIN 3' MINIMUM COVER. SEE BUILDING PLANS.

8 4" SUBDRAIN @ MIN. 2.0% PER DETAIL #7/C7.1.

9 FOR REFERENCE ONLY: GAS (BY UTILITY COMPANY).

10 TYPE "I" FIRE HYDRANT ASSEMBLY PER DETAIL #3/C7.1

11 FIELD VERIFY DEPTH AND LOCATION OF EXISTING UTILITY. NOTIFY ENGINEER AND WAIT FOR INSTRUCTION IF CONFLICTS WITH PROPOSED CONSTRUCTION.

12 6'X4" TEE

13 INSTALL STAHLIN ENCLOSURES CONTROL PANEL MODEL #: "RJ1816HPL" OR APPROVED EQUAL. MOUNT CONTROL PANEL ON MOUNTING SYSTEM PER DETAIL ON ELECTRICAL PLAN. CONNECT SPECIFIED CONTROL PANEL TO DUPLEX GRINDER STATION PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE WITH SITE ELECTRIC PLANS.

14 CORE HOLE IN EXISTING MANHOLE FOR PROPOSED SANITARY CONNECTION. PROVIDE WATER TIGHT CONNECTION.

15 2" FORCE MAIN TO BE DIRECTIONALLY DRILLED BELOW ASPHALT.

16 GAS LINE TO BE DIRECTIONALLY DRILLED BELOW ASPHALT.

STORM SEWER NOTES:

- 1. MATERIAL AND WORKMANSHIP SHALL COMPLY WITH THE TOWN OF CENTERVILLE STANDARDS AND SPECIFICATIONS.
- 2. ALL PIPE 12" AND SMALLER SHALL BE SDR 35 PVC, OR ADS N-12 HDPE UNLESS OTHERWISE NOTED. ALL PIPE LARGER THAN 12" SHALL BE ADS N-12 HDPE OR C76 CL-111 RCP UNLESS OTHERWISE NOTED. ALL PIPE SHALL BE INSTALLED ACCORDING TO SPECIFICATIONS AND PIPE TRENCH DETAIL #1/C7.1.
- 3. MAINTAIN 10'-0" MINIMUM HORIZONTAL AND 18" MINIMUM VERTICAL SEPARATION BETWEEN ALL SEWER PIPING AND POTABLE WATER PIPING. WHEN MINIMUM TOLERANCES CAN'T BE MAINTAINED, USE WATERWORKS GRADE PIPE AND FITTINGS OF MATERIAL SELECTED.
- 4. COORDINATE TAP LOCATIONS FOR DOWNSPOUTS WITH BUILDING DRAWINGS. ASSURE ALL REQUIRED FITTINGS ARE INSTALLED ON THE MAIN LINE PRIOR TO BACKFILLING. INCLUDE ADAPTER FITTING FOR DOWNSPOUTS.
- 5. ALL UNDERGROUND PIPING FOR DOWNSPOUT COLLECTION SYSTEM SHALL BE 6" SDR 35 PVC STORM @ 1.00% MIN. SLOPE UNLESS NOTED OTHERWISE.

NOT ALL KEYNOTES ARE USED ON THIS SHEET.

6" CLEANOUT

RIM:1003.70 INV N:998.85

@ 1.00%

INV :998.93

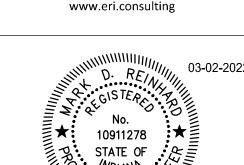
Site Utility Enlargement

22 LF OF 6" SAN @ 1.00%

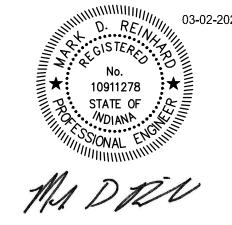






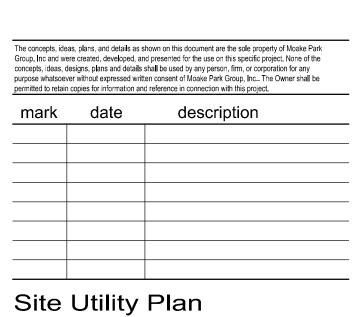


Ph: (260) 490-1025 Fax: (260) 490-1026



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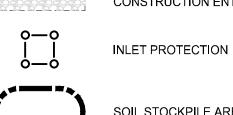




date: March 2, 2022 project: 473003 coordinator: DLR C4.0 drawn: CMF checked: MDR

EROSION CONTROL LEGEND:

AGGREGATE BASE FOR STABLE CONSTRUCTION ENTRANCE



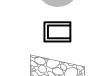
SOIL STOCKPILE AREA



CONCRETE WASHOUT AREA



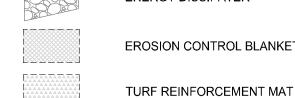
RIP-RAP DONUT AND END SECTION INLET PROTECTION



TRASH RACK



ENERGY DISSIPATER



EROSION CONTROL BLANKET

EROSION CONTROL KEY:

T1 INSTALL SILT FENCE PER DETAIL #1/C5.2. T2 INSTALL STABLE CONSTRUCTION ENTRANCE PER DETAIL #2/C5.2. T3 INSTALL YARD INLET PROTECTION DEVICE PER DETAIL #3/C5.2. T4 INSTALL PAVEMENT INLET PROTECTION DEVICE PER DETAIL #4/C5.2. INSTALL CONCRETE WASHOUT STRUCTURE PER DETAIL #6/C5.2. 177 INSTALL TEMPORARY SOIL STOCKPILE AREA SIGN PER 18 INSTALL END SECTION INLET PROTECTION PER DETAIL #5/C5.2. T9 INSTALL RIP-RAP DONUT PER DETAIL #10/C5.2. T10 INSTALL EROSION CONTROL BLANKET PER DETAIL #9/C5.2

P1 INSTALL ENERGY DISSIPATER PER DETAIL #14/C5.2. P2 INSTALL TRASH RACK PER DETAIL #11/C5.2.

P3 DRY DETENTION BASIN. | この | (P4)| INSTALL VEGETATED SWALE PER DETAIL #12/C5.2.

STORM WATER SEWER LINES SHOWN ARE FOR REFERENCE ONLY. SEE SITE UTILITY PLANS FOR STORM WATER SEWER LINE SIZE, INVERT, ETC.

PUBLIC INFORMATION NOTE:

THE PROJECT OWNER/CONTRACTOR MUST POST NEAR THE ENTRANCE OR NEAR THE PROJECT FIELD OFFICE AND BE ACCESSIBLE TO THE PUBLIC SUCH THAT IT DOES NOT CREATE TRESPASS CONCERNS:

. A COPY OF THE COMPLETED NOTICE OF INTENT (NOI) LETTER WITH PERMIT NUMBER. THE PERMIT NUMBER CAN BE FOUND ON THE NOTICE OF SUFFICIENCY LETTER RECEIVED FROM IDEM.

CONTACT INFORMATION (ADDRESS, PHONE, AND EMAIL) OF THE PROJECT SITE OWNER OR DESIGNATED CONTACT PERSON. THE NOI CONTAINS THIS INFORMATION.

3. LOCATION OF THE CONSTRUCTION PLAN, IF ONE IS NOT STORED

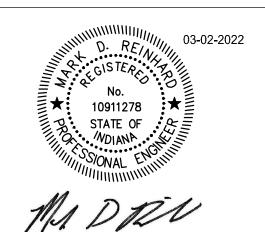
PERMANENT OFF-SITE EXCESS SOIL AREA AND WETLAND NOTE:

EXCESS SOIL IS TO BE REMOVED FROM PROJECT SITE TO A PERMANENT SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIND A SITE TO PERMANENTLY PLACE THE EXCESS SOIL, EXECUTE ANY CONTRACTS NEEDED WITH THE PROPERTY OWNER, AND RESEARCH FOR THE POSSIBILITY OF WETLANDS ON THE EXCESS SOIL SITE. IF WETLANDS ARE FOUND, ANOTHER SITE SHOULD BE CHOSEN. IF THE CONTRACTOR WISHES TO USE A SITE THAT CONTAINS WETLANDS IT IS THE CONTRACTORS FINANCIAL RESPONSIBILITY TO HAVE THE WETLANDS ASSESSED AND DELINEATED BY A CERTIFIED ENVIRONMENTAL CONSULTING FIRM. IT IS THE CONTRACTORS EXCESS SOIL SITE TO THE WAYNE COUNTY SOIL AND WATER CONSERVATION DISTRICT TECHNICIAN FOR INSPECTION AND APPROVAL, TO ASSURE APPROPRIATE MEASURES WILL BE TAKEN TO PROTECT THE WETLANDS AND THAT THE WETLANDS WILL NOT BE DISTURBED. THE EXCESS SOIL PROPERTY SHALL HAVE EROSION CONTROL MEASURES AND DEVICES IN PLACE IN ACCORDANCE WITH THE LATEST INDIANA STORM WATER QUALITY MANUAL AND ANY LOCAL ORDINANCE. CONTRACTOR SHALL MAINTAIN THE EROSION CONTROL MEASURES AND DEVICES USED, IN ACCORDANCE WITH THE LATEST INDIANA STORM WATER QUALITY MANUAL AND LOCAL ORDINANCES. THE SITE SHALL BE FINE GRADED, SOIL STABILIZED, AND TEMPORARY EROSION CONTROL DEVICES AND MEASURES REMOVED AT THE COMPLETION OF SOIL PLACEMENT.









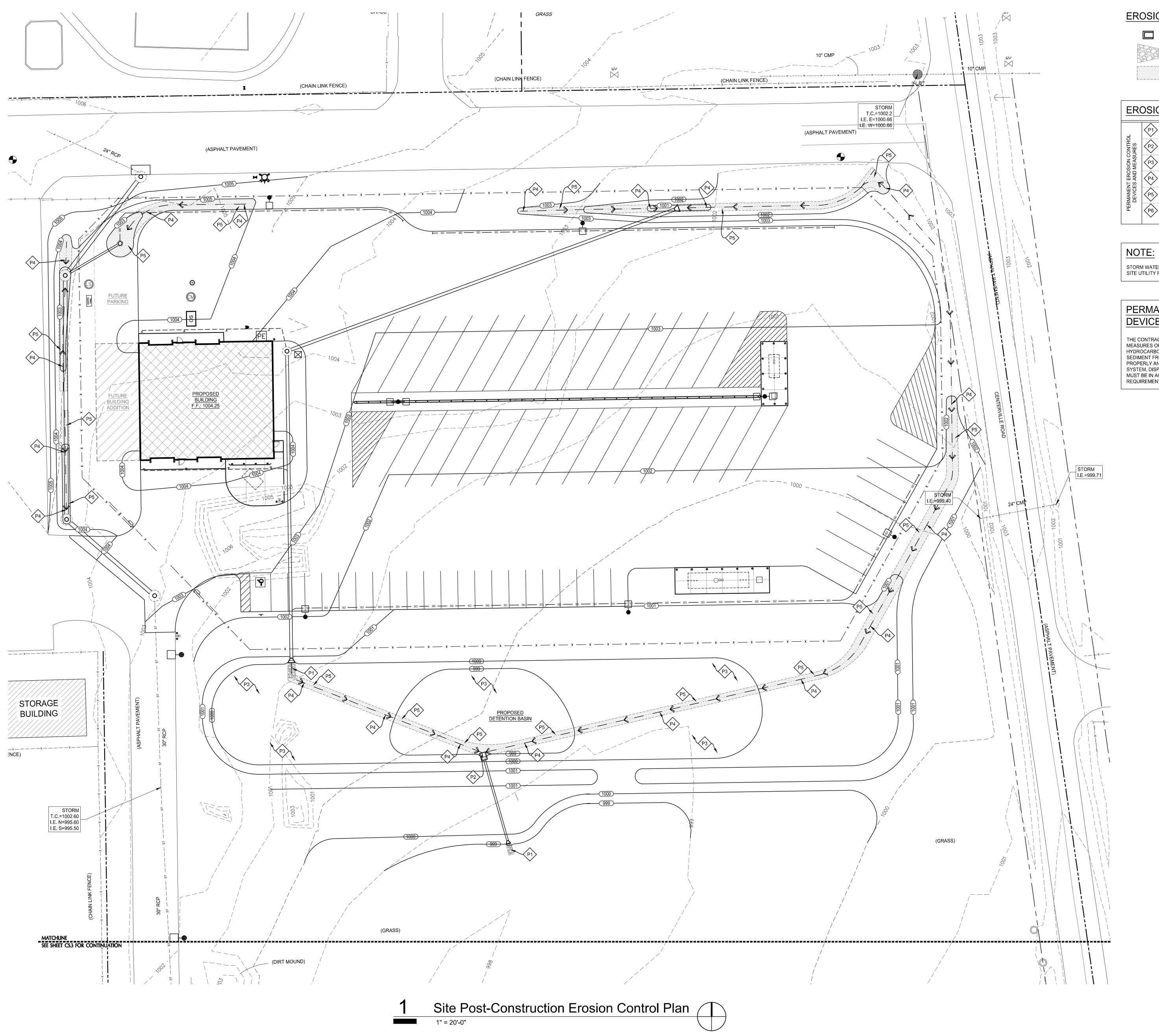
A PROJECT FOR:



| concepts, ideas, de ourpose whatsoeve | signs, plans and details r without expressed wri | ind presented for the use on this specific project. None of the s shall be used by any person, firm, or corporation for any tten consent of Moake Park Group, Inc The Owner shall be nd reference in connection with this project. |
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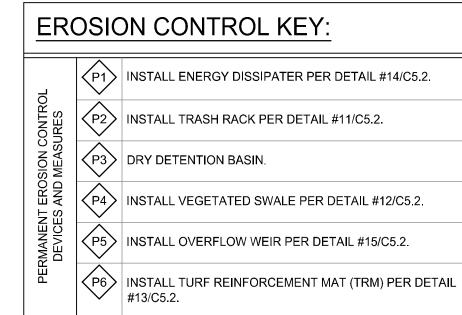
Site Construction Erosion Control Plan

date: March 2, 2022 ____project: 473003 coordinator: DLR drawn: KRK checked: MDR



EROSION CONTROL LEGEND:

ENERGY DISSIPATER TURF REINFORCEMENT MAT



STORM WATER SEWER LINES SHOWN ARE FOR REFERENCE ONLY. SEE SITE UTILITY PLANS FOR STORM WATER SEWER LINE SIZE, INVERT, ETC.

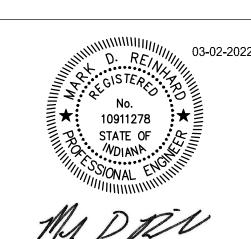
PERMANENT EROSION CONTROL DEVICES AND MEASURES NOTE:

THE CONTRACTOR SHALL CLEAN THE EROSION CONTROL DEVICES AND MEASURES OF, BUT NOT LIMITED TO, SEDIMENT, DEBRIS, AND ANY HYDROCARBONS WHEN CONSTRUCTION IS COMPLETE. WATER AND SEDIMENT FROM CLEANING PROCEDURES SHALL BE DISPOSED OF PROPERLY AND MUST NOT BE DEPOSITED INTO ANY SANITARY SEWER SYSTEM. DISPOSAL OF ALL SEDIMENT, DEBRIS AND HYDROCARBONS MUST BE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL



7223 Engle Rd. Suite 200, Fort Wayne, IN 46804 260-424-6516





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Site Post-Construction **Erosion Control Plan**

date: March 2, 2022 project: 473003 coordinator: DLR C5.1 drawn: KRK checked: MDR

DRAIN PIPE

A∟ (FT.)

CHECK SLOT

(OPTIONAL)

 $A_T = APRON THICKNESS (FT.)$

Aw = APRON WIDTH (FT.) AT THE NARROW END

• 1.2 TIMES THE MAXIMUM STONE DIAMETER FOR A

• 1.5 TIMES THE MAXIMUM STONE DIAMETER FOR A

STONE SIZE OF 15 INCHES OR LARGER.

STONE SIZE OF 15 INCHES OR LESS.

AL = APRON LENGTH (FT.)

OF THE APRON.

APRON THICKNESS (AT):

- WITH FLARED

STONE PLACED AROUND END OF DRAIN

-PIPE TO PREVENT SLOPE EROSION AND

LEVEL WITH

RECEIVING

CHANNEL

OUTLET

UNDERCUTTING OF THE PIPE.

GEOTEXTILE FABRIC

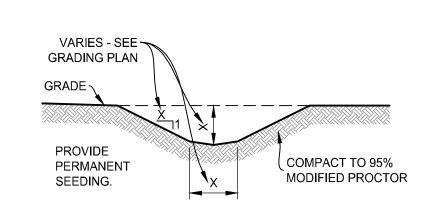
PIPE DISCHARGE

STONE APRON BELOW

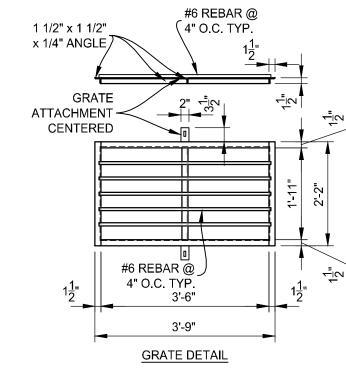
INSTALLATION:

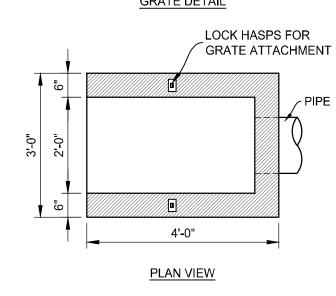
- 1. CONTRACTOR TO SELECT A PERMANENT TURF REINFORCEMENT MAT. THE MAT WOULD HAVE THE FOLLOWING PROPERTIES 8.0-LB., UV-STABLE POLYPROPYLENE TOP & BOTTOM NETS, 24.0 LB., UV-STABLE POLYPROPYLENE CORRUGATED CENTER NET AND A 100% COCONUT FIBER MATRIX RATED FOR HIGH FLOW CHANNELS, 1:1 & GRATER SLOPES ALLOWING FOR A 36 MONTH GROW-IN PERIOD.
- 2. GRADE AND PREPARE THE SOIL FOUNDATION FOR MAT INSTALLATION AS PER MANUFACTURER'S INSTRUCTIONS.
- 3. INSTALL THE MAT ACCORDING TO THE MANUFACTURERS INSTRUCTIONS, INCLUDING BURYING THE EDGES IN CHECK SLOTS OR TRENCHES.
- 4. ANCHOR THE BLANKETS AS SPECIFIED BY THE MANUFACTURER. THIS TYPICALLY INVOLVES DRIVING 8" TO 12" METAL STAPLES INTO THE GROUND IN A PATTERN DETERMINED BY THE SITE CONDITIONS AND TYPE OF TURF REINFORCEMENT MAT.

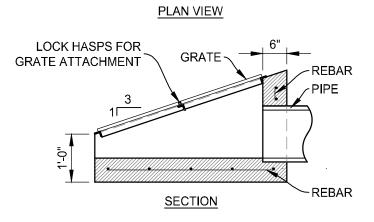
Scale: NONE

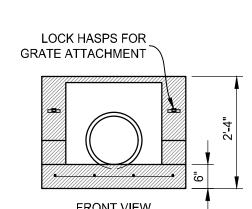


VEGETATED SWALE Scale: NONE



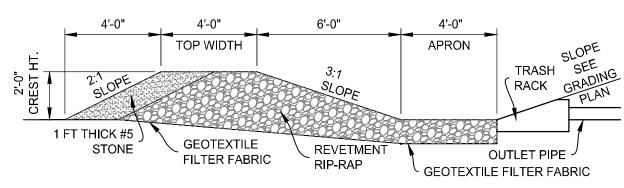






FRONT VIEW NOTE: 4500 PSI CONCRETE WITH #4 REBAR 10" TO 12" O.C. EACH WAY AND GALVANIZED REBAR AND ANGLE GRATE

12" TRASH RACK Scale: 1/2" = 1'-0"

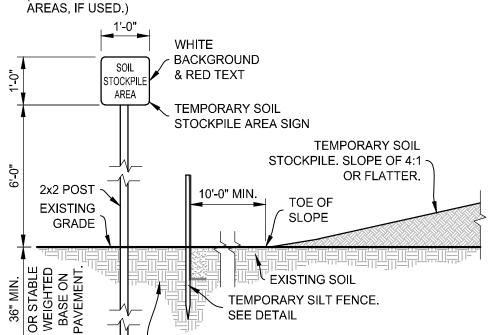


RIP-RAP DONUT Scale: NONE

- DIVERSION, SEDIMENT BASIN OR TRAP, AND SILT FENCE.
- 3. GRADE THE SITE AS SPECIFIED IN THE CONSTRUCTION PLAN.
- AREA IMMEDIATELY AFTER GRADING.
- 7. TUCK THE UPPERMOST EDGE OF THE UPPER BLANKETS INTO A CHECK SLOT (SILT TRENCH), BACKFILL WITH SOIL AND TAMP DOWN.
- A PATTERN DETERMINED BY THE SITE CONDITIONS AND TYPE OF EROSION CONTROL BLANKET.

EROSION CONTROL BLANKET

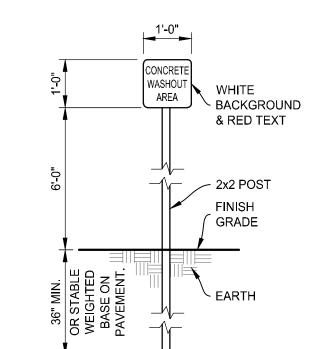
IMPORTANT!



SPECIFICATIONS:

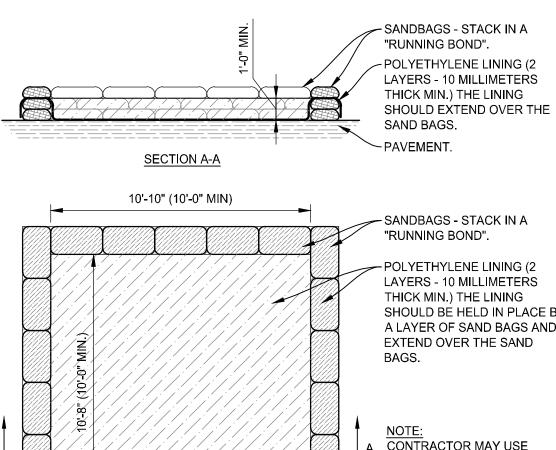
- 1. INSPECT THE SILT FENCE AND TEMPORARY SOIL STOCKPILE PERIODICALLY
- 3. IF FENCE FABRIC TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.
- 4. REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE FENCE AT ITS LOWEST POINT OR IS CAUSING THE FABRIC TO BULGE.
- 5. AVOID UNDERMINING THE SILT FENCE DURING THE REMOVAL OF DEPOSITED
- RE-DISTRIBUTED. BRING THE DISTURBED AREA TO GRADE AND STABILIZE.

TEMP. SOIL STOCKPILE AREA Scale: None



CONCRETE WASHOUT SIGN

NOTE:
DUE TO SITE CONSTRAINTS THE MINIMUM INTERIOR DIMENSION MAY BE ADJUSTED TO FIT THE SITE. THE STRUCTURE'S INTERIOR SQUARE FOOTAGE OF 100 SF. MUST BE MAINTAINED



INSTALLATION:

- 1. CONTRACTOR TO SELECT A 12-MONTH PHOTODEGRADABLE EROSION CONTROL BLANKET RATED FOR 3:1 TO 2:1 SLOPES.
- 2. INSTALL EROSION CONTROL MEASURES AND PRACTICES NEEDED TO CONTROL EROSION AND RUNOFF, SUCH AS TEMPORARY OR PERMANENT
- 4. ADD TOPSOIL WHERE APPROPRIATE.
- 5. PREPARE THE SEEDBED, FERTILIZE (AND LIME, IF NEEDED), AND SEED THE
- 6. FOLLOWING MANUFACTURER'S DIRECTIONS, LAY THE BLANKETS ON THE SEEDED AREA SUCH THAT THEY ARE IN CONTINUOUS CONTACT WITH THE SOIL AND THAT THE UPSLOPE OR UPSTREAM ONES OVERLAP THE LOWER ONES BY AT LEAST 8 INCHES.

END SECTION

STANDARD 2"

OVERFLOW -

INDOT UNIFORM B

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

RECTANGULAR INLET FILTER

Scale: None

REPAIRS IMMEDIATELY.

SEDIMENT REMOVAL.

MATCH GRADE

MINIMUM LENGTH: 150'

MINIMUM WIDTH: 20'

SPECIFICATIONS:

GRADE >

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

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

- 2x2 POSTS

COMPACTED FILL

TEMPORARY/FINISH GRADE

AND BOTTOM OF TRENCH

1. INSPECT THE SILT FENCE PERIODICALLY AND AFTER EACH STORM EVENT.

3. REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF

5. REMOVE THE FENCE AND SEDIMENT DEPOSITS AFTER THE CONTRIBUTING

DRAINAGE AREA HAS BEEN STABILIZED. BRING THE DISTURBED AREA TO

BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.

THE FENCE AT ITS LOWEST POINT OR IS CAUSING THE FABRIC TO BULGE.

2. IF FENCE FABRIC TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY

4. AVOID UNDERMINING THE FENCE DURING CLEANOUT.

SILT FENCE

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

GRADE AND STABILIZE.

FILTER STONE

END SECTION INLET PROTECTION

11 GAUGE STEEL

SUSPENSION

STEEL

BAND

REPLACEABLE SEDIMENT BAGS

WITH GEOTEXTILE

FILTER FABRIC

ROUND INLET FILTER

• DROP FLEXSTORM INLET FILTER INTO LOAD

BEARING LIP OF CASTING OR CONCRETE

DIAGONALLY AT TOP

TEMPORARY/FINISH GRADE

SIDE AND BOTTOM OF TRENCH

COMPACTED FILL

1. INSPECT THE FABRIC BARRIER AFTER STORM EVENTS, AND MAKE NEEDED

REMOVE SEDIMENT FROM THE POOL AREA TO PROVIDE STORAGE FOR THE

NEXT STORM. AVOID DAMAGING OR UNDERCUTTING THE FABRIC DURING

SEDIMENT WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.

3. REMOVE AND PROPERLY DISPOSE OF ALL CONSTRUCTION MATERIAL AND

GRADE THE AREA TO THE ELEVATION OF THE TOP OF THE INLET, THEN

YARD INLET PROTECTION

#2 AGGREGATE

CONSTRUCTION ENTRANCE

C DIVERSION RIDGE WITH 3:1 SIDE SLOPE

- GEOTEXTILE FABRIC UNDERLINER

─ 95% COMPACTED SUB-GRADE

GEOTEXTILE FABRIC SECURED WITH LATHE - BURY TOE 8"

EXTEND INTO THE TRENCH) & PROVIDE 24" SPLICE LENGTH.

MIN. BELOW GRADE (12" MIN. TOTAL OF FABRIC SHOULD

GEOTEXTILE FABRIC LAID ON DOWN-SLOPE SIDE

SILT FENCE SHALL BE INSTALLED AT START OF

CONSTRUCTION AND SHALL REMAIN UNTIL GRASS HAS

GROWN IN AREAS OF PERMANENT EROSION CONTROL

→EXISTING

1x2 INCH OR 1x3 INCH TOP FRAME - BRACE

FABRIC SILT FENCE - BURY TOE 8" MIN.

- BELOW GRADE (12" MIN. TOTAL OF FABRIC SHOULD EXTEND INTO THE TRENCH).

GEOTEXTILE FABRIC LAID ON DOWN-SLOPE

FLEXSTORM DISTRIBUTED BY: ADS

INLET & PIPE PROTECTION, INC.

AND MANUFACTURED BY:

24137 W. 111TH ST., UNIT A

INFO@INLETFILTERS.COM

NAPERVILLE, IL 60564

PH: (866) 287-8655

FAX: (630) 355-3477 WWW.INLETFILTERS.COM

REMOVE GRATE

STRUCTURE

REPLACE GRATE

PAVEMENT INLET PROTECTION

CLAMPING

(INDOT NO. 5)

OVERFLOW

~ LIFT HANDLE

STAINLESS STEEL

CLAMPING

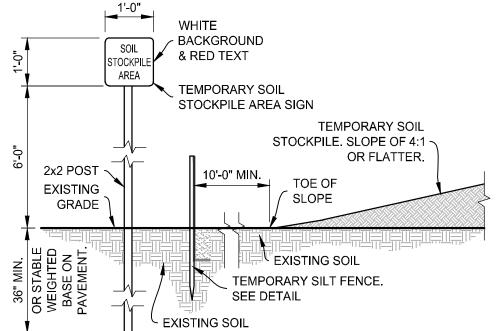
BAND

AREA

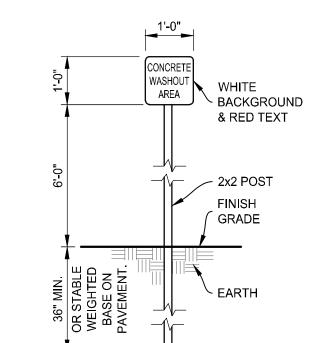
8. ANCHOR THE BLANKETS AS SPECIFIED BY THE MANUFACTURER. THIS TYPICALLY INVOLVES DRIVING 6" TO 8" METAL STAPLES INTO THE GROUND IN

Scale: NONE

SILT FENCE AND TEMPORARY SOIL STOCKPILE AREA SIGN SHALL BE INSTALLED PRIOR TO STOCKPILING SOIL. SILT FENCE AND SIGNAGE SHALL REMAIN UNTIL THE SOIL IS RE-DISTRIBUTED ON-SITE. (DETAIL IS ALSO AN EXAMPLE OF ANY TEMPORARY OFF-SITE SOIL STOCKPILE

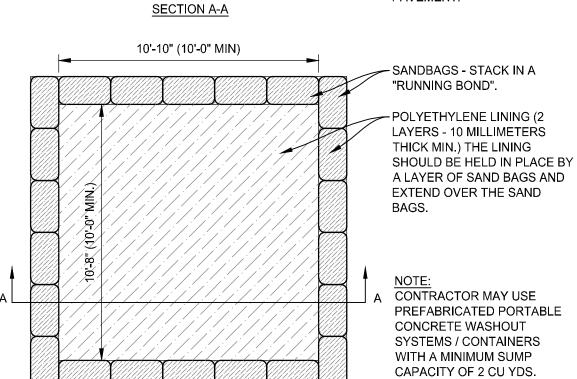


- AND AFTER EACH $\frac{1}{2}$ " STORM EVENT.
- 2. STOCKPILED SOIL SHOULD BE TEMPORARILY SEEDED OR COVERED WITH A TARP IF IT IS TO BE LEFT INACTIVE FOR 15 DAYS OR MORE.
- 6. REMOVE THE SIGN, SILT FENCE, AND SEDIMENT DEPOSITS AFTER THE SOIL IS



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

AND THE CONTRACTOR SHALL SUBMIT ANY DESIGN ALTERATIONS TO THE ENGINEER.

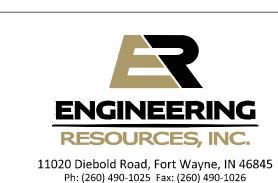


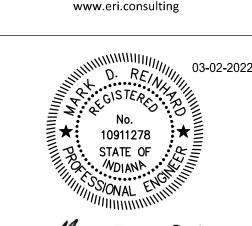
CONC. WASHOUT STRUCTURE Scale: 1/4" = 1'-0"

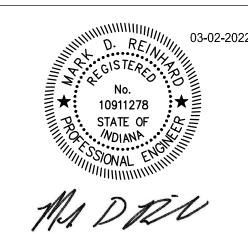
PLAN VIEW



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CHOO ENTER

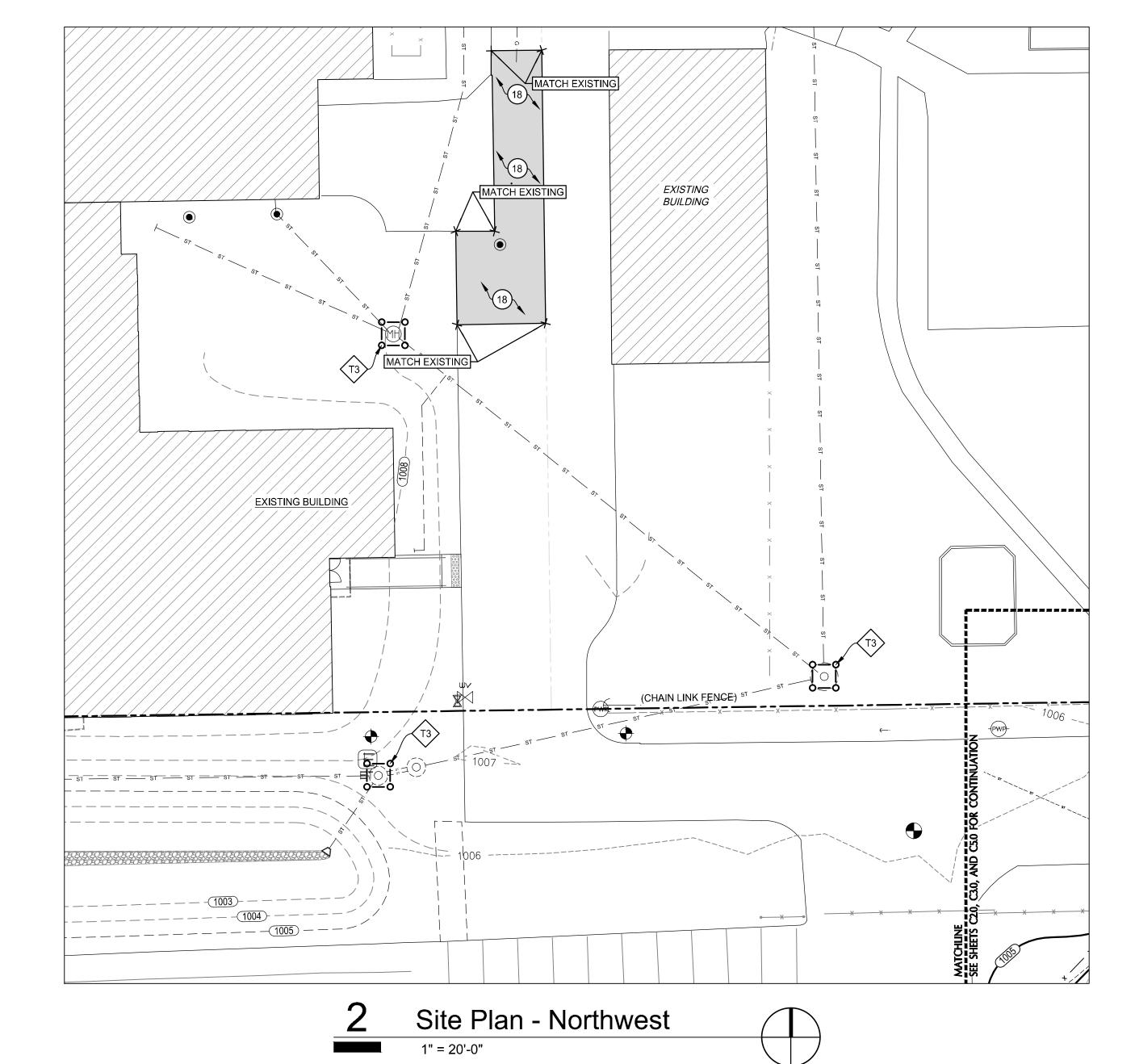
A PROJECT FOR:



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Site Erosion **Control Details**

date: March 2, 2022 ____project: 473003 coordinator: DLR drawn: KRK _checked: MDR



LAYOUT LEGEND:

NOTE: ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.

2 GRASS/LANDSCAPE AREA. ALL DISTURBED AREAS TO RECEIVE PERMANENT SEEDING. SEE

SPECIFICATIONS SECTION 329200 "LAWNS &

9 <u>ALTERNATE #7:</u> 12" MINIMUM ASPHALT PAVEMENT TO PROVIDE A CLEAN EDGE PER DETAIL #1/C7.0.

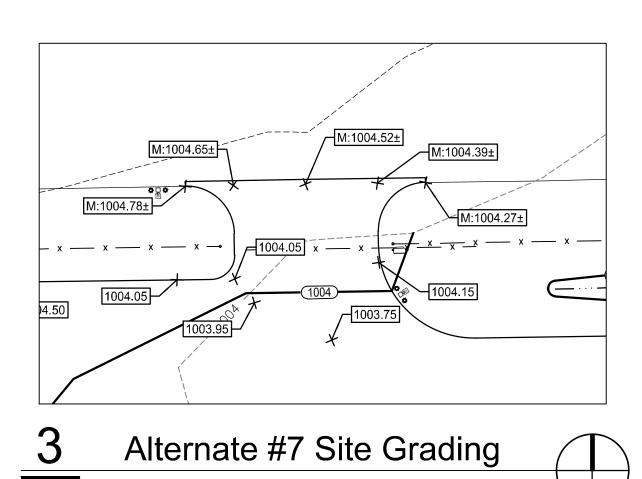
<u>IOTE</u>: ALL ELEVATIONS ARE TO TOP OF

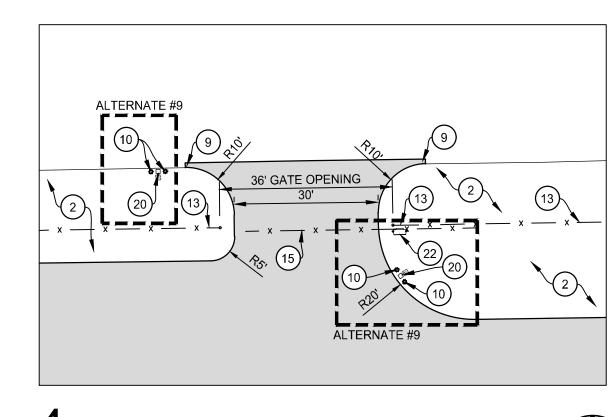
PAVEMENT OR LAWN UNLESS NOTED OTHERWISE.

GRASSES" AND LANDSCAPE PLANS.

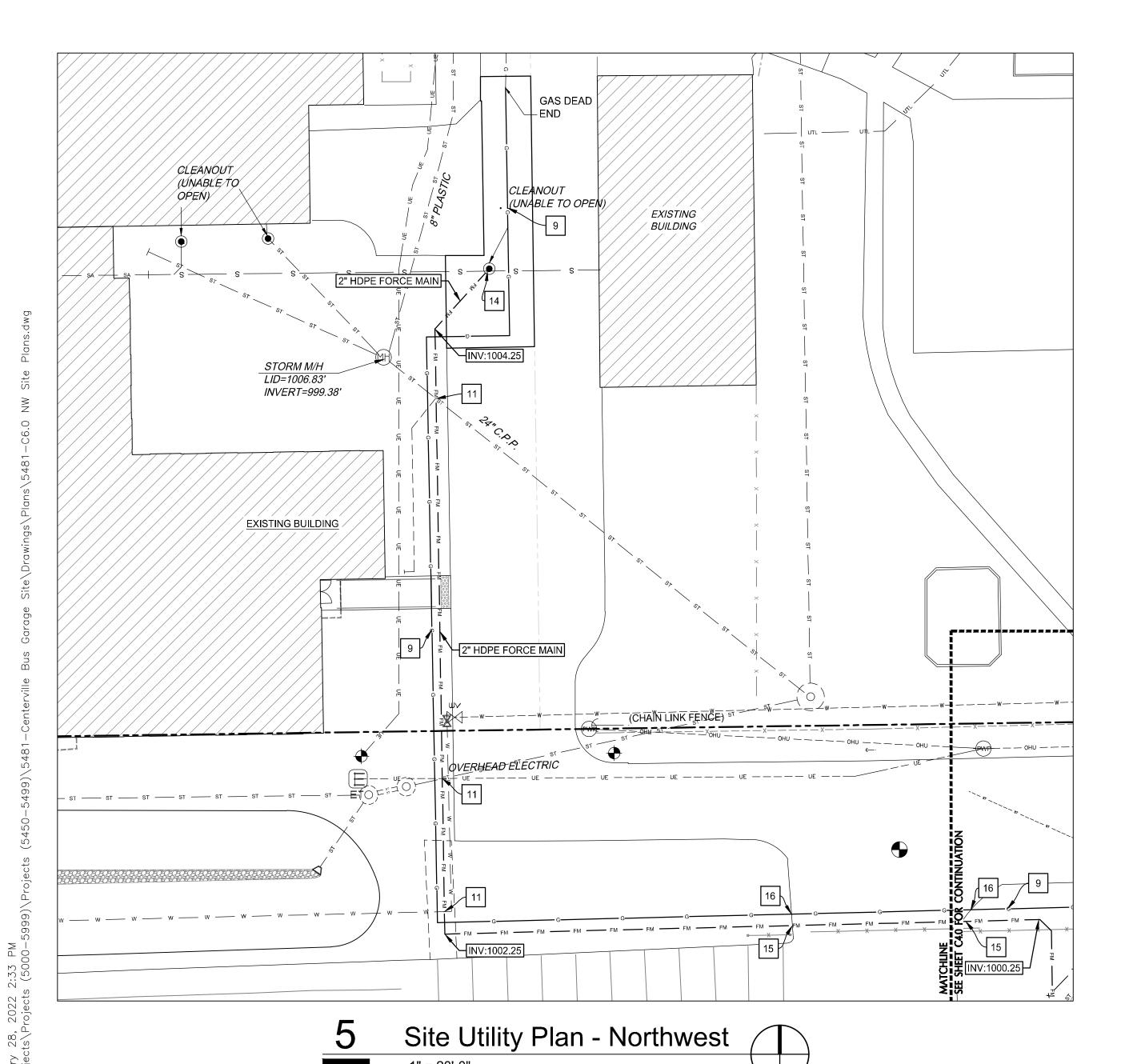
LAYOUT NOTES:

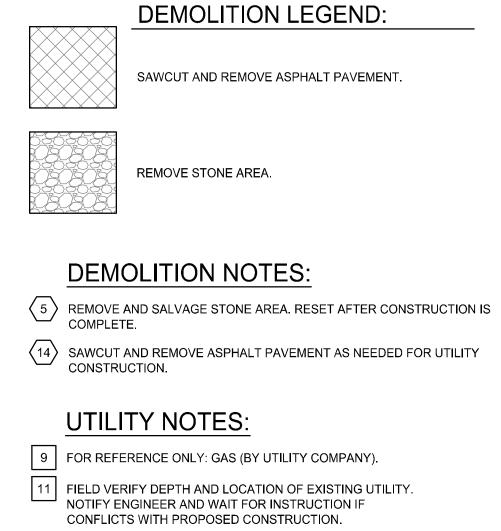
TYPE "A" PAVEMENT PER DETAIL #1/C7.0.





Alternate #7 Site Layout

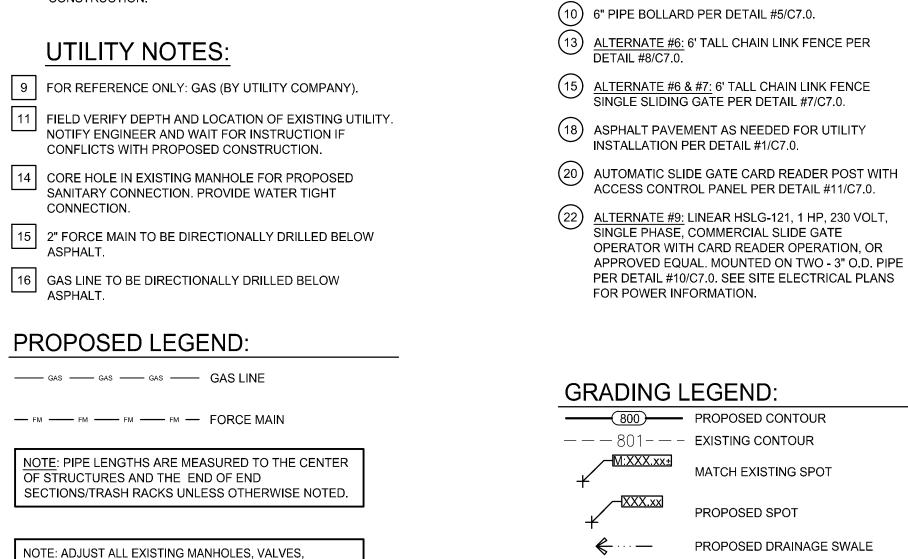


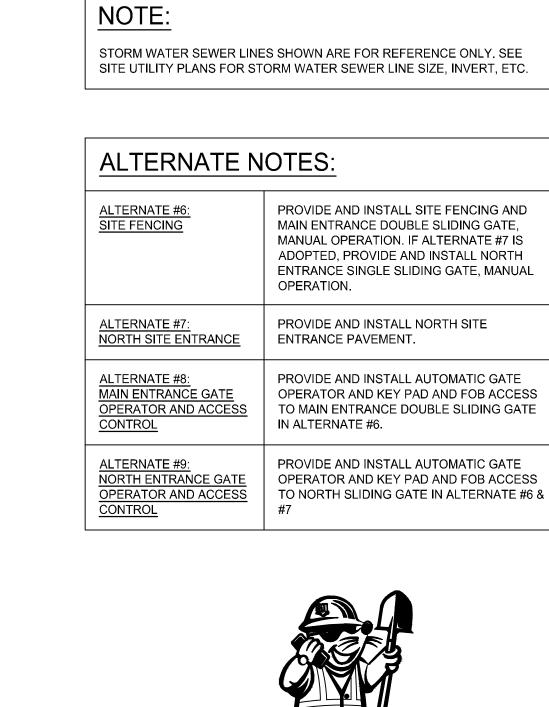


HYDRANTS AND HANDHOLES TO PROPOSED GRADES.

NOTE: CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL

AS REQUIRED BY STATE AND LOCAL AUTHORITIES.





EROSION CONTROL LEGEND:

INLET PROTECTION

T3 INSTALL YARD INLET PROTECTION DEVICE PER DETAIL #3/C5.2.

EROSION CONTROL KEY:



7223 Engle Rd. Suite 200, Fort Wayne, IN 46804 260-424-6516 www.moakepark.com

ENGINEERING

11020 Diebold Road, Fort Wayne, IN 46845 Ph: (260) 490-1025 Fax: (260) 490-1026 www.eri.consulting



| | copies for information an | d reference in connection with this project. |
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| March 2, 2022 | |
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| 473003 | _ |
| DLR | |
| KRK | . C6.(|
| MDR | |
| | 473003 DLR KRK |

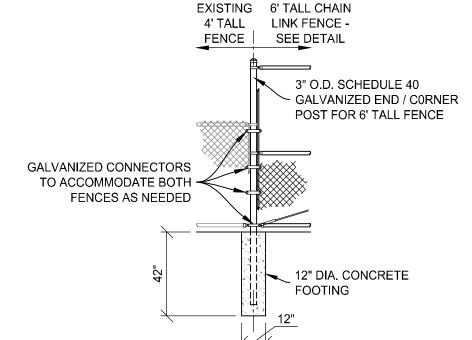
SLIDING GATE AND POSTS

W-BEAM RAIL -

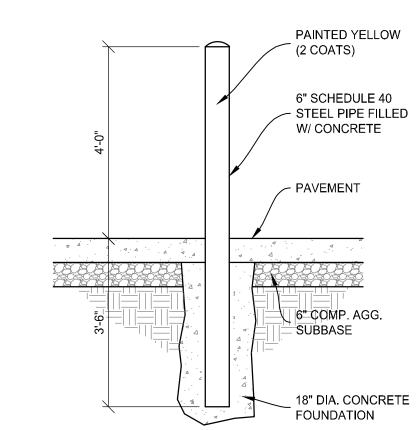
✓ EACH SIDE

BASE PLATE

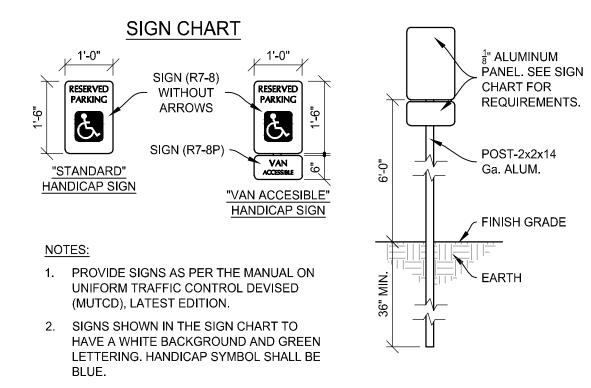
- W-BEAM RAIL



FENCE POST Scale: NONE

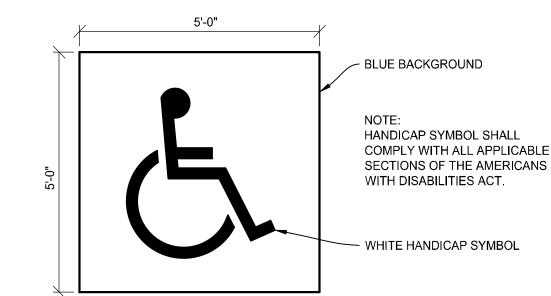


6" PIPE BOLLARD Scale: 1/2" = 1'-0"

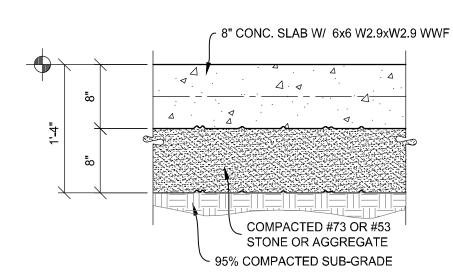


HANDICAP SIGNS

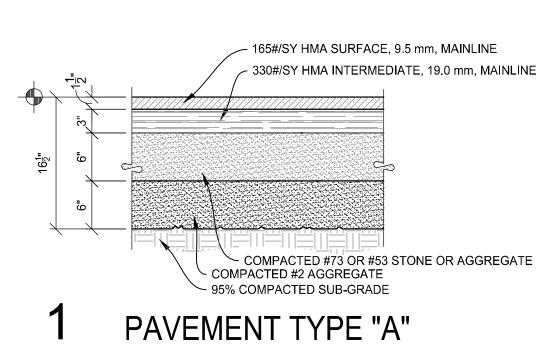
Scale: 1/2" = 1'-0"



PAVEMENT MARKING-HANDICAP Scale: 1/2" = 1'-0"



8" CONCRETE PAVEMENT SCALE: 1" = 1'-0"



SCALE: 1" = 1'-0"

Z

7223 Engle Rd. Suite 200, Fort Wayne, IN 46804 260-424-6516

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ENGINEERING

RESOURCES, INC

11020 Diebold Road, Fort Wayne, IN 46845

Ph: (260) 490-1025 Fax: (260) 490-1026

www.eri.consulting

10911278

STATE OF WDIANA

SCHOO



CENTERVIL

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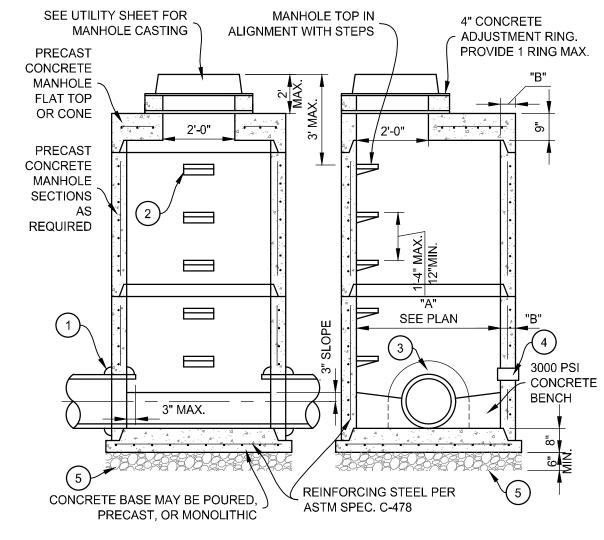
| date: | March 2, 2022 | |
|--------------|---------------|------|
| project: | 473003 | _ |
| coordinator: | DLR | |
| drawn: | KRK | C7.0 |
| checked: | MDR | |

EQUAL.

10 SLIDE GATE MECHANISM

Scale: NONE

SUBDRAIN DETAIL SCALE: 1" = 1'-0"



DETAIL NOTES: (1) SEAL STRUCTURE WALL WITH PSX BOOT, OR A-LOK GASKET FOR

SMOOTH WALL ACCORDING TO ASTM C923. (2) STANDARD FIBERGLASS MANHOLE STEPS.

(3) DRILLED OR PRECAST OPENING.

(4) (2) WEEP PIPES REQUIRED FOR EACH STORM STRUCTURE. PROVIDE FILTER FABRIC OVER WEEP OPENING.

(5) #8 GRAVEL BASE.

~ 2" DISCHARGE LINE SEE PLANS

— SS UPPER GUIDE RAIL BRACKETS

SS EXTENSION HANDLES - DOWN IS OPEN VALVE UP IS CLOSED VALVE

─ 2" SS COUPLING

2" SS SHUT OFF VALVES

2" CAST IRON BALL CHECK AND

MUST HAVE MINIMUM 36" BELOW

ANTI-SIPHON VALVES

MANUFACTURER: FRANKLIN ELECTRIC

230/460: VOLTS, 3: PHASE, 4.5/9.0: FLA

BASIN TOP OF RIM ELEV - 993.25

THE INLET PIPE

MODEL: IGP M SERIES

PART #: 515870/51587

ALUMINUM HATCH COVER

∠ 2" COMPOSITE VENT COUPLING

FLOAT BRACKETS ~

SS LIFTING CHAINS ~

ELEV - 997.16

ELEV - 996.66

ELEV - 996.16

ELEV - 995.25

1" SS GUIDERAILS —

NOTE: BOOTS REQUIRED UNLESS LOCAL COMMUNITY ALLOWS OTHERWISE.

GENERAL CONSTRUCTION REQUIREMENTS:

1. MANHOLE MADE IN ACCORDANCE WITH ASTM C-478 AND INDOT SECTION 720 SPECIFICATION STANDARDS.

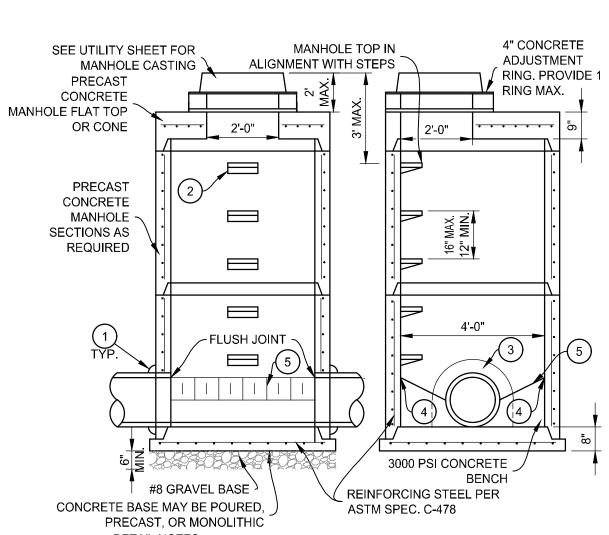
2. ALL PIPES SHALL HAVE A SMOOTH FINISH 3. MANHOLE JOINTS TONGUE AND GROOVE WITH BUTYL ROPE OR RING IN ACCORDANCE

WITH ASTM C-443 AND ASTM C891. 4. THE BASE SHALL BE PLACED ON 6" MIN. COMPACTED CLASS I OR CLASS II MATERIAL AS DESCRIBED IN ASTM D2321.

WALL THICKNESS

"A" MH DIA. "B"

STORM MANHOLE TYPE SCALE: 3/8" = 1'-0"



- 1) SEAL STRUCTURE WALL WITH PSX BOOT, OR A-LOK GASKET FOR SMOOTH WALL ACCORDING TO ASTM C923.
- (2) STANDARD FIBERGLASS MANHOLE STEPS.
- (3) DRILLED OR PRECAST OPENING. (4) MATCH CROWN ELEVATION OF PIPE. (5) 4% MIN. SLOPE TO SPRINGLINE.

- **GENERAL CONSTRUCTION REQUIREMENTS:** 1. MANHOLE MADE IN ACCORDANCE WITH ASTM C-478 AND INDOT SECTION 720
- SPECIFICATION STANDARDS. 2. PIPE SHALL BE LAID STRAIGHT THROUGH WITH SPLIT TILE OR BROKEN OUT INSIDE TO SMOOTH FINISH.
- 3. SHOP DRAWINGS SHALL BE APPROVED PRIOR TO CONSTRUCTION. 4. MANHOLE JOINTS TONGUE AND GROOVE WITH BUTYL ROPE OR RING IN
- ACCORDANCE WITH ASTM C-443 AND ASTM C891. 5. THE BASE SHALL BE PLACED ON 6" MIN. COMPACTED CLASS I OR CLASS II MATERIAL AS DESCRIBED IN ASTM D2321.

6. ALL INSIDE JOINTS OF MANHOLE COMPONENTS SHALL BE SMOOTHED WITH

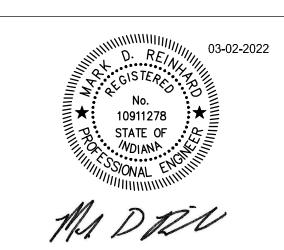
7. MINIMUM DIAMETER OF THROUGH PIPE SHALL BE 6".

CONTROL MANHOLE SCALE: 3/8" = 1'-0"

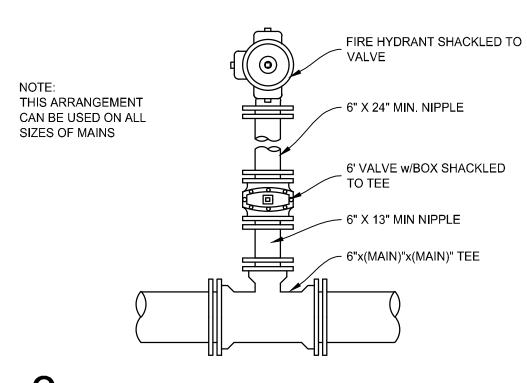
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CH00



HYDRANT TYPE "I" SCALE: N.T.S.

CATALOG NUMBER

NEENAH EAST JORDAN

LID & FRAME: LID: 1020AHDGS

FRAME: 1772 | FRAME: 1022

NOTES: 1. CASTINGS SPECIFIED, OR APPROVED EQUAL

2. ALL BEARING SURFACES TO BE MACHINED.

IS NEEDED TO PROVIDE SUFFICIENT SUPPORT.

SCALE: NONE

3. COMPLY WITH ASTM A48-83 CLASS #35.

FRAME: 1022Z1

LID: 2502 | LID: 1022-M1 | OPEN W/ FISH

1772

G TYPE

DESCRIPTION

"SANITARY SEWER"

LETTERING

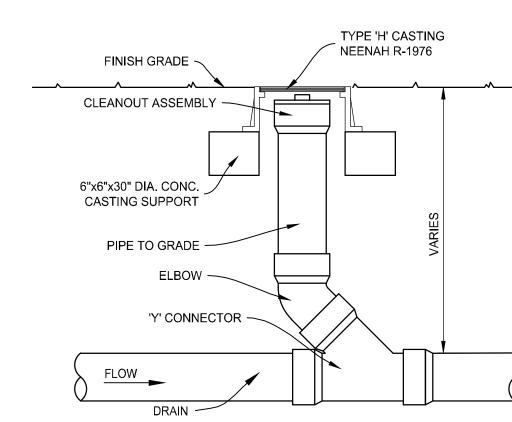
LOGO

*WHEN USED WITH STORM INLET, CONTRACTOR TO VERIFY IF A SPECIAL ORDER CASTING

CASTING SCHEDULE

PLAN VIEW

SECTION VIEW

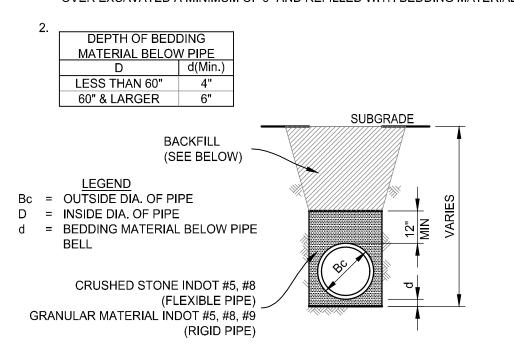


PVC CLEANOUT

SCALE: N.T.S.

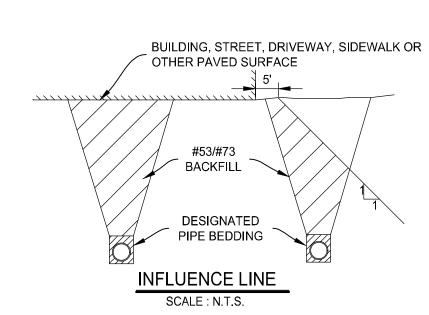
BEDDING SPECIFICATIONS

1. FOR ROCK OR OTHER NON-COMPRESSIBLE MATERIAL, THE TRENCH SHALL BE OVER EXCAVATED A MINIMUM OF 6" AND REFILLED WITH BEDDING MATERIAL.



BACKFILL SPECIFICATIONS BACKFILL WITHIN PUBLIC R.O.W., UNDER PAVED AREAS, AND WITHIN THE INFLUENCE OF BUILDING STRUCTURES SHALL BE INDOT #53/#73. INFLUENCE ZONE SHALL EXTEND AT A 1:1 SLOPE FROM ABOVE ITEM. COMPACTION SHALL MEET OR EXCEED 95% OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 1557.

2. BACKFILL WITHIN LAWN AREAS AND OUT OF THE INFLUENCE OF: BUILDING STRUCTURES, PAVED AREAS, AND PUBLIC R.O.W., SHALL BE STANDARD BACKFILL. STANDARD BACKFILL SHALL BE FREE OF: ROCK AND GRAVEL LARGER THAN 3" IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION, AND OTHER DELETERIOUS MATERIAL ACCORDING TO ASTM D 2487. COMPACTION SHALL MEET OR EXCEED 90% OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 1557.

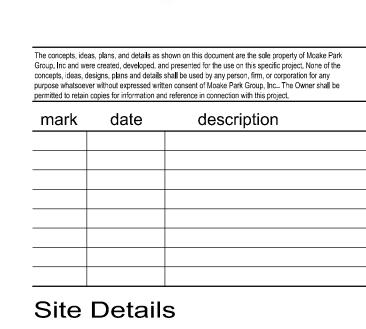


PIPE TRENCH DETAIL

SCALE: NONE

ENTER





date: March 2, 2022 project: 473003 coordinator: DLR drawn: CMF checked: MDR

DUPLEX GRINDER STATION

FLOAT BRACKET

ANTI-FLOATATION FLANGE -

2" COMPOSITE ELECTRICAL COUPLING ~

JUNCTION BOX

GRINDER PUMPS —

BASIN TOP OF RIM ELEV - 1003.25

2" COMPOSITE ELECTRICAL COUPLING

4" SCH 40 STANDARD

6" SDR 35 AVAILABLE

ELEV-998.30

LAG PUMP ON

、HIGH LEVEL ALARM

LEAD PUMP ON

LINK SEAL (FIELD INSTALLED)

ALUMINUM HATCH COVER /

SCALE: NONE

GRINDER STATION NOTES:

2. CONTACT WATERMARK

FOR INFORMATION.

FOLLOWS:

THE SPECIFIC DESIGN DATA ARE AS

PUMPS, PART NO.

OR APPROVED EQUAL.

ENGINEERED PRODUCT SALES,

3. INSTALL LIFT OUT RAIL SYSTEMS, VALVES, CONTROLS, ACCESS

CONVER(S) AND ALL OTHER

4. INSTALL CHECK VALVES AND ISOLATION VALVES.

PROVIDE BASIN COVER AND

6. INSTALL ALL FLOATS, POWER

CONNECTIONS, AND

LOCKABLE ALUMINUM ACCESS

MISCELLANEOUS FITTINGS WITHIN

THE PUMP CHAMBER. FLOAT

7. PROVIDE STAINLESS STEEL LIFTING

8. CONTROL PANEL TO INCLUDE: SEAL

DETECTION, VISUAL ALARM, AUDIO

ALARM, ALTERNATE PUMPS & TIME

CLOCK, PROVIDE MOUNTING PANEL

AND INSTALL CONTROL PANEL ON

WITH OWNER. CONTROL PANEL TO

ELECTRICAL CONTRACTOR PRIOR

APPROPRIATELY FOR PUMPS AND

MOUNTING PANEL. COORDINATE

LOCATION OF MOUNTING PANEL

9. CONTRACTOR TO COORDINATE

10. PROVIDE SINGLE PHASE FUSABLE

CONTROLS INSIDE NEMA 3R

11. CONTRACTOR TO PROVIDE SHOP

PRE-PACKAGED LIFT STATION,

(*) COORDINATE FLOAT ELEVATIONS

SET SO THAT PUMPS ARE

SUBMERGED AT ALL TIMES.

WITH PUMP MANUFACTURER. VERIFY PUMP OFF ELEVATION IS

VALVES, FITTINGS, ETC. PRIOR TO

DRAWINGS FOR PUMPS,

VOLTAGE SUPPLY WITH

TO CONSTRUCTION.

DISCONNECT SIZED

ENCLOSURE.

CONSTRUCTION.

ALARM & FLOAT ELEVATIONS:

BE LOCKABLE.

FAILURE DETECTION, PHASE

CHAINS & GUIDE RAILS FOR EACH

SWITCHES TO BE NON-MERCURY

APPURTENANCES TO MAKE A

COMPLETE SYSTEM. LIFT OUT RAIL

SYSTEM COMPONENTS AND UPPER

GUIDE BRACKETS TO BE STAINLESS

NATHAN SINDER, (317) 219-4333 OR

NSINDER@WATERMARKEPS.COM

a. INSTALL (2) FRANKLIN ELECTRIC

515870/515871, MODEL IGP-M

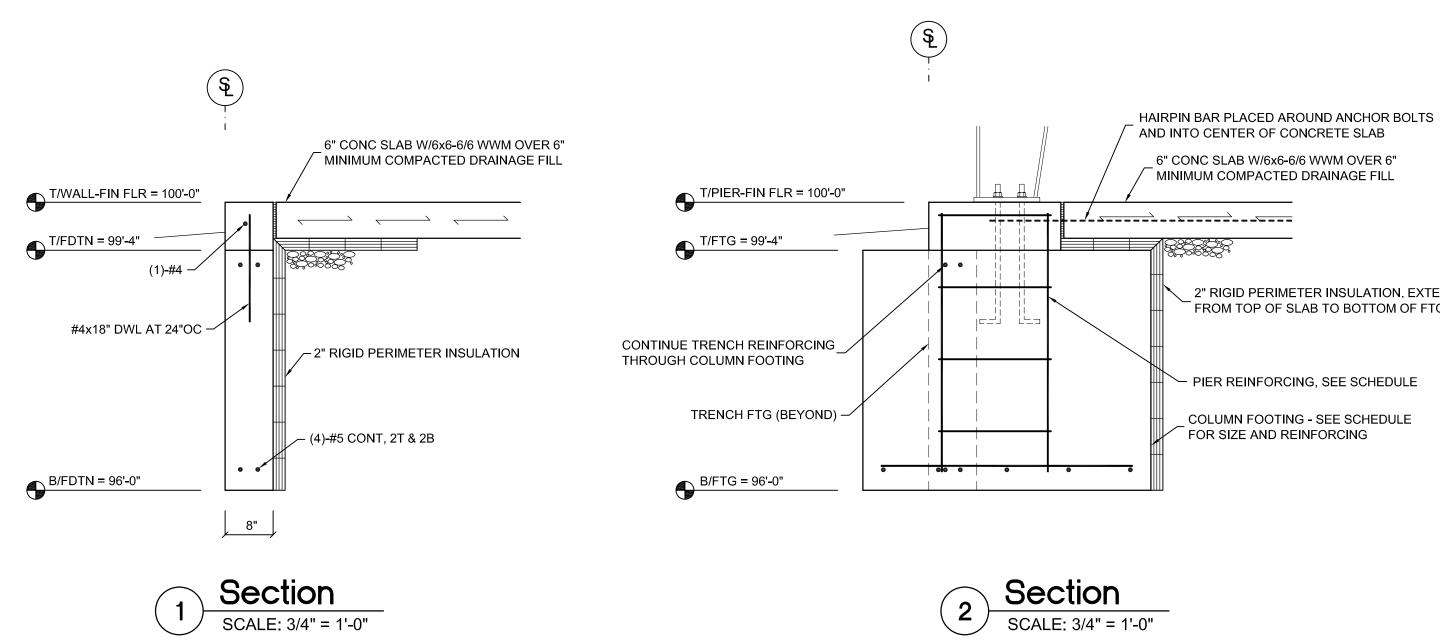
SERIES, WITH 2HP, 230/460V/3PH

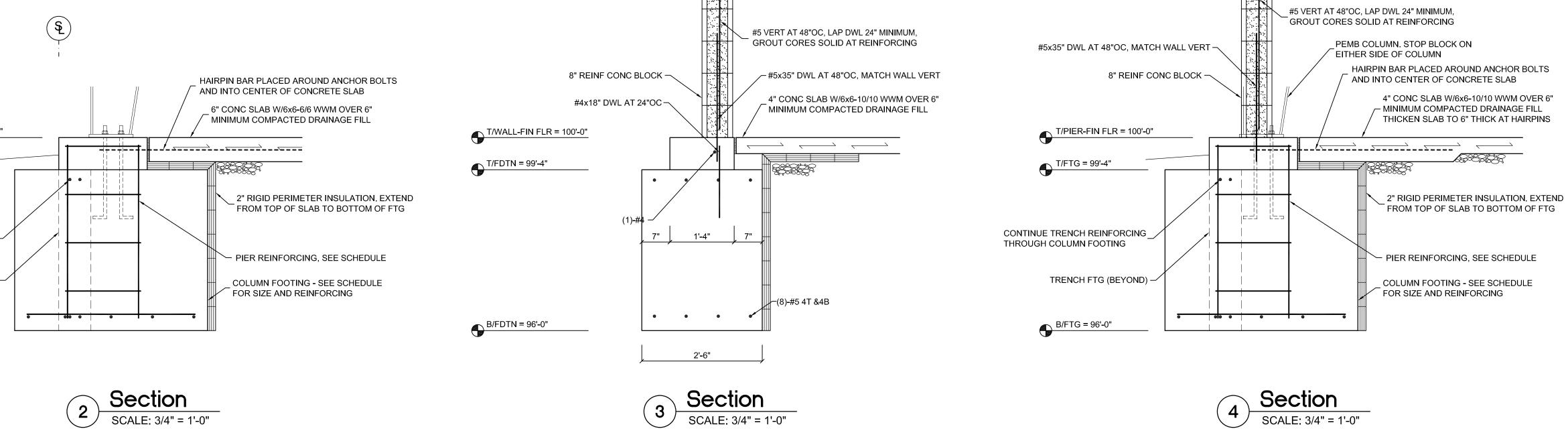


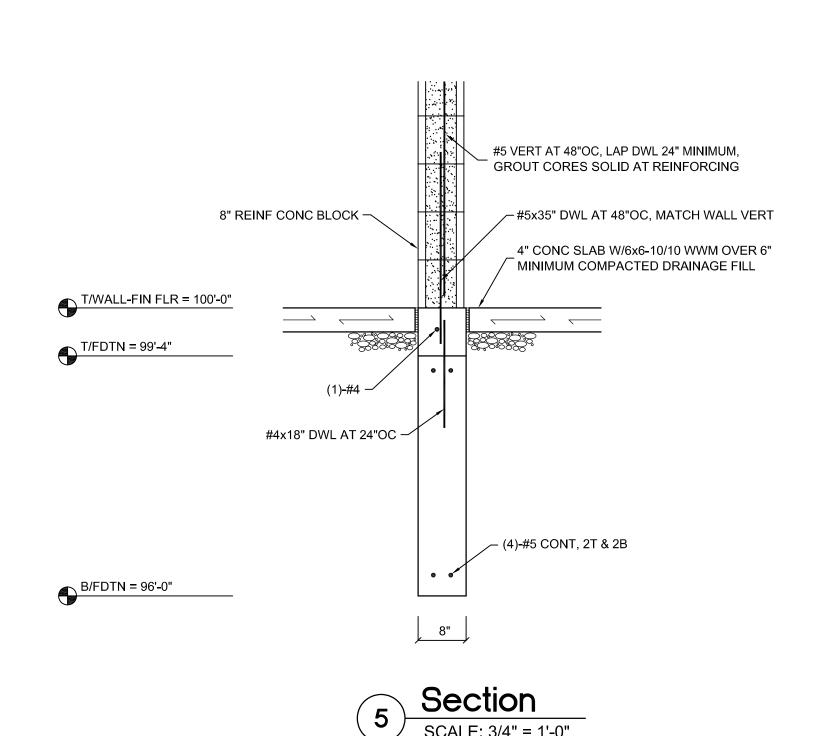


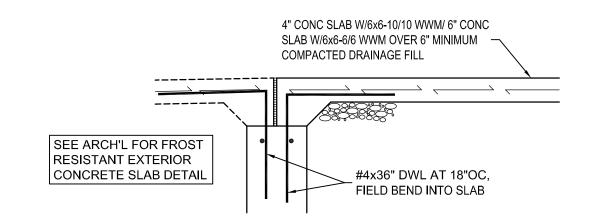




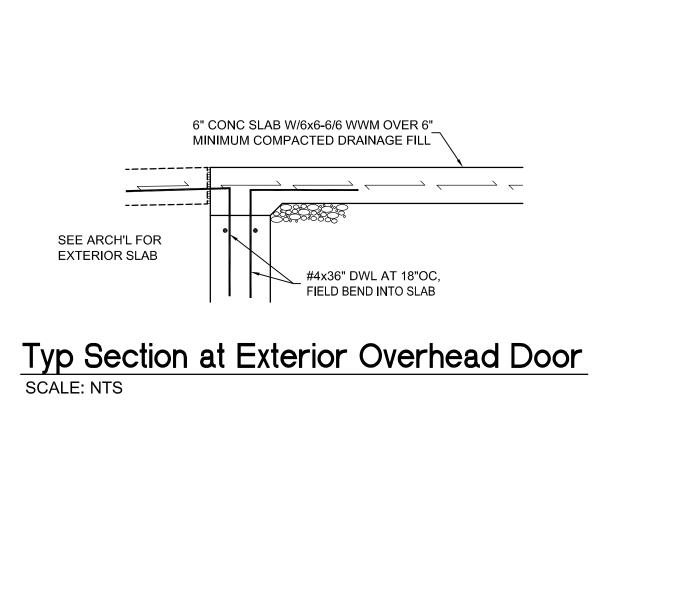


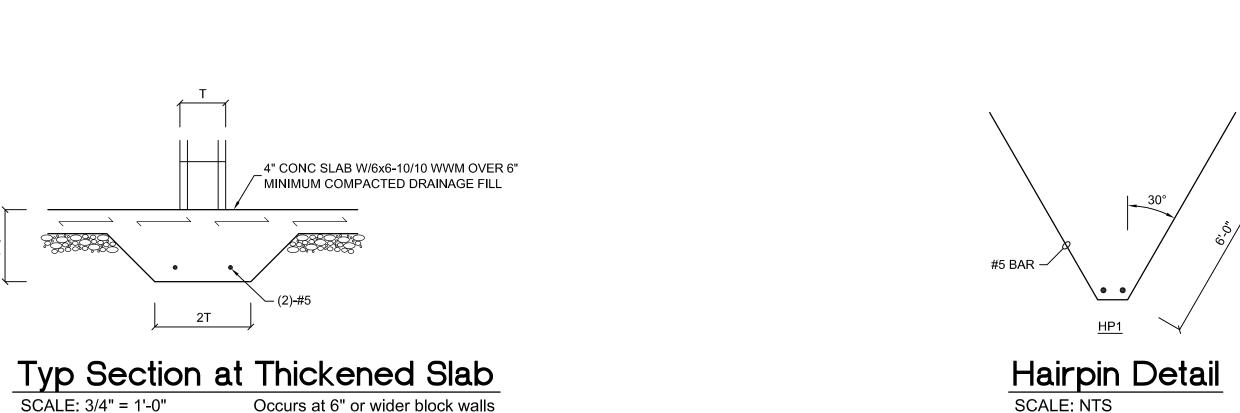


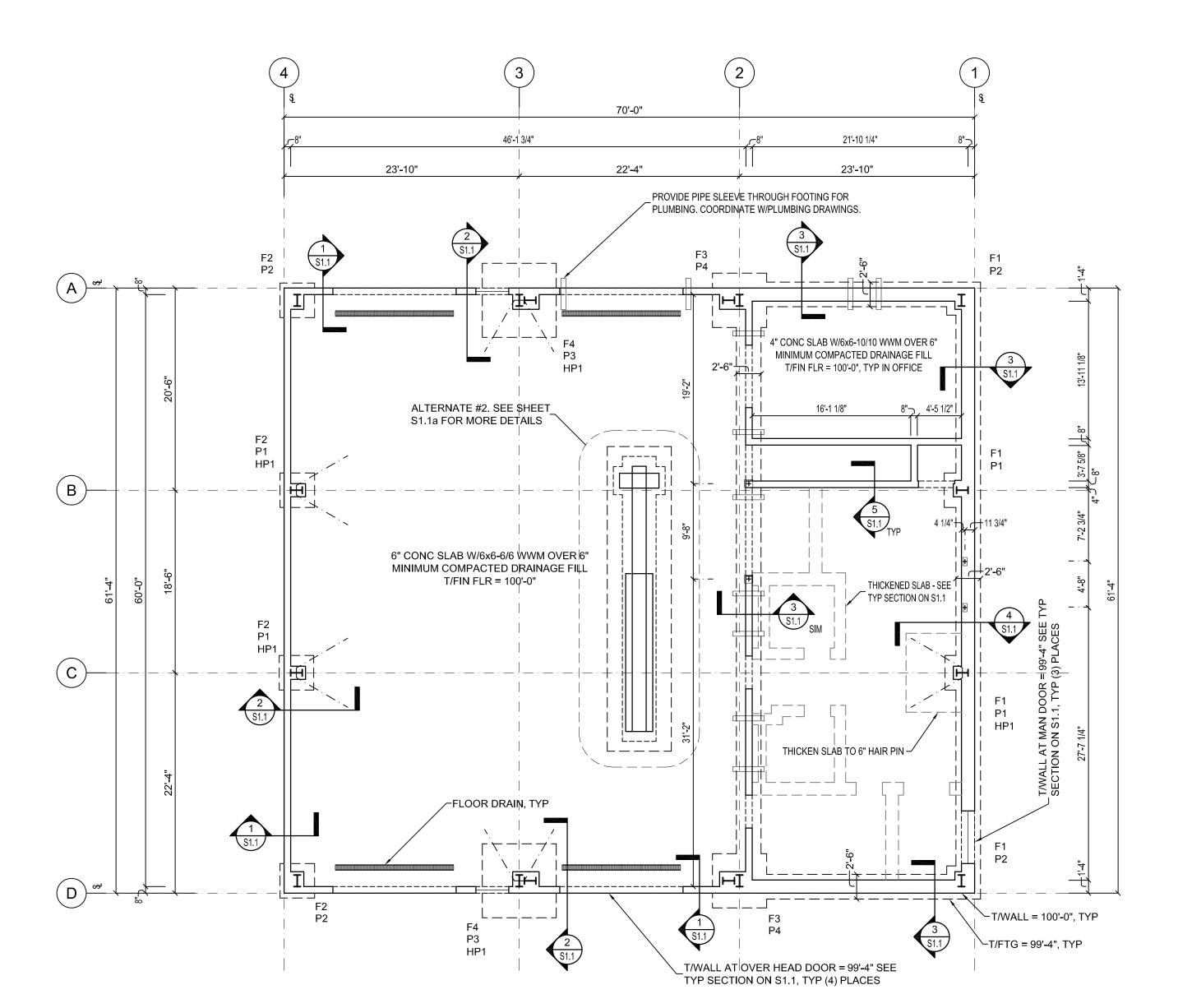




Typ Section at Exterior Man Door







Foundation Plan SCALE:1/8" = 1'-0"

FOOTING SCHEDULE

F1 | 3'-0" x 3'-0" x 3'-4" | (4)-#5 EACH WAY *

F2 | 3'-6" x 3'-6" x 3'-4" | (4)-#5 EACH WAY *

F3 | 5'-6" x 5'-6" x 3'-4" | (6)-#6 EACH WAY T&B

F4 7'-6" x 7'-6" x 3'-4" (8)-#6 EACH WAY T&B

* PROVIDE STANDARD 180° ACI HOOK AT EACH END

REINFORCING

SIZE

- NOTES:
 1. PROVIDE THICKENED SLABS AT 6" WIDE OR WIDER BLOCK WALLS. SEE SECTION ON S1.1.
 2. FOR PEMB ANCHOR BOLT LAYOUT SEE TYP BASE PLATE DETAILS ON PEMB DRAWINGS.
- 3. SEE ARCH'L FOR AREAS WHERE SLAB IS DEPRESSED FOR FLOOR FINISH AND UNDER SLAB VAPOR BARRIER REQUIREMENTS.

 4. AT PEMB: FOR TYPICAL COLUMN TO FOUNDATION CONNECTION SEE PEMB DRAWINGS.
- AT PEMB: FOR TYPICAL COLUMN TO FOUNDATION CONNECTION SEE PEMB DRAWINGS.
 AT CONVENTIONAL FRAMING: FOR TYPICAL COLUMN TO FOUNDATION CONNECTION SEE S2.1.
 P1: 16"x26" CONC PIER W/(8)-#6 VERT & #3 TIES AT 12"OC. T/PIER = 100'-0".
- P1: 16"x26" CONC PIER W/(8)-#6 VERT & #3 TIES AT 12"OC. T/PIER = 100'-0".
 P2: 24"x26" CONC PIER W/(12)-#6 VERT & #3 TIES AT 12"OC. T/PIER = 100'-0".
 P3: 26"x32" CONC PIER W/(12)-#6 VERT & #3 TIES AT 12"OC. T/PIER = 100'-0".
 P4: 26"x40" CONC PIER W/(12)-#6 VERT & #3 TIES AT 12"OC. T/PIER = 100'-0".
 PROVIDE MATCHING DOWELS INTO FOOTING.

| PROVIDE MATCHING DOWELS INTO FOOTING. |
|---|
| PIER DIMENSIONS TAKEN FROM OUTSIDE FACE OF FDTN WALL AT PEMB COLUMNS. |
| ANCHOR BOLT EMBEDMENTS AND HOOKS AT PEMB BUILDING: |
| 3/4" DIA: 9" EMBED, AND 3"-90° HOOK. |
| 1" DIA: 12" EMBED, AND 4"-90° HOOK. |
| SEE PEMB BOLT DRAWINGS FOR PROJECTION REQUIREMENTS |

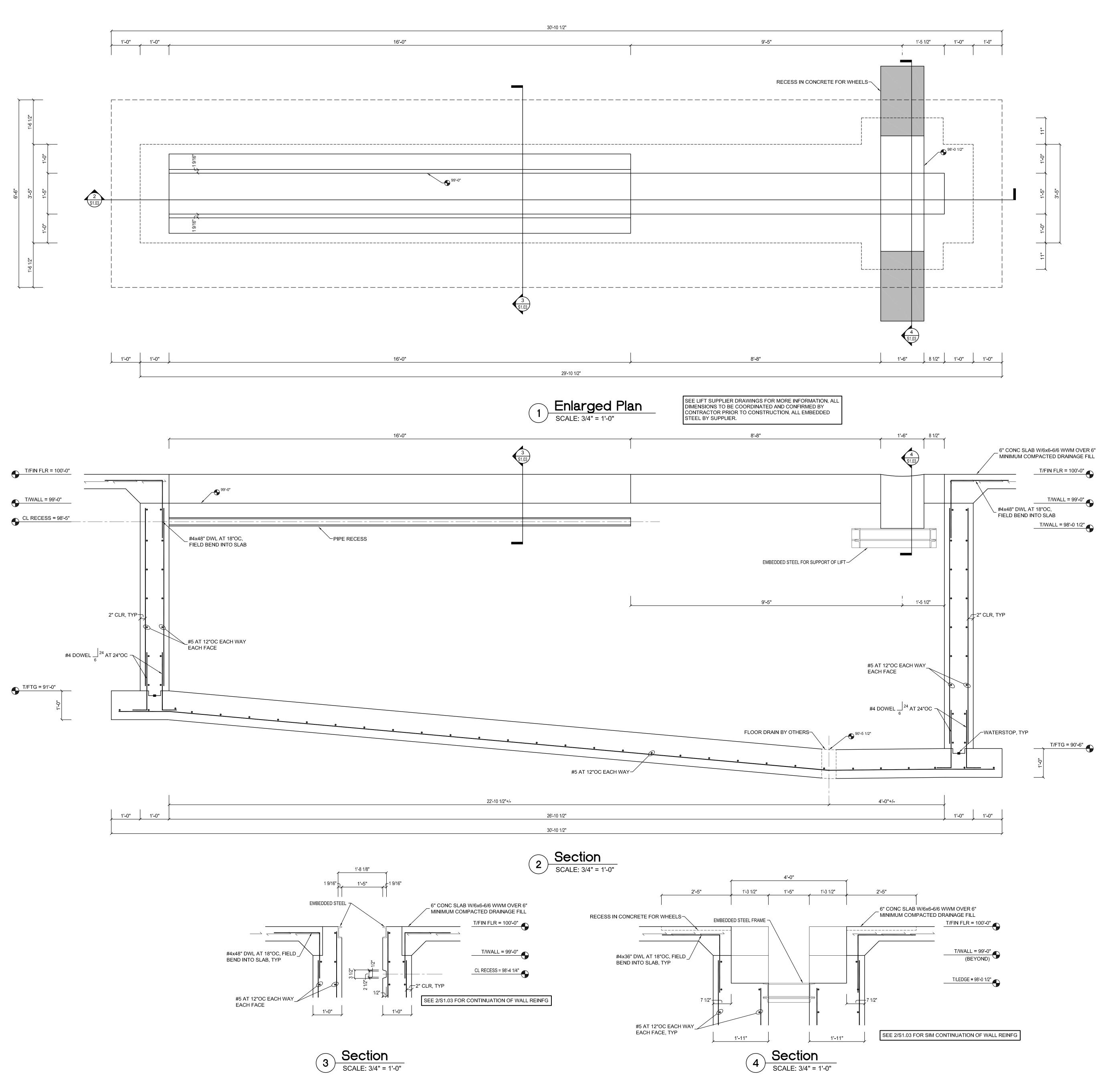




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| FOUNDATION PLAN | |
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| date: 3/2/2022 | |
|------------------|------|
| project: 473003 | |
| coordinator: JMO | |
| drawn: EPH | S1.1 |
| checked: KEH | |







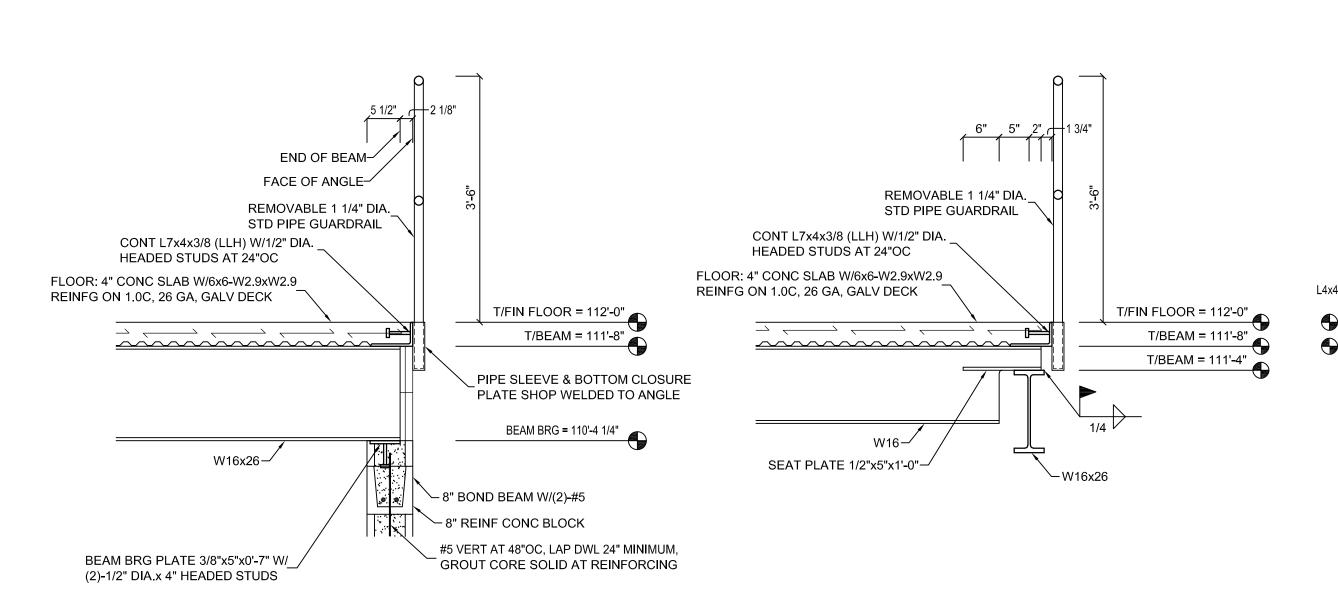


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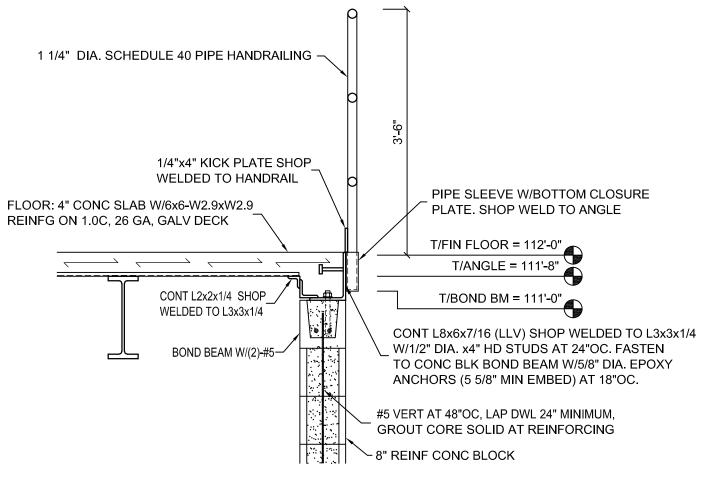
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| _ | date: 3/2/2022 | |
| _ | project: 473003 | |
| _ | coordinator: JMO | |
| | drawn: EPH | S1.1a |
| _ | checked: KFH | |



FACE OF ANGLE \sim \sim \sim 3 -L4x4x1/4 FORM ANGLE FIELD WELD TO BEAM FLOOR: 4" CONC SLAB W/6x6-W2.9xW2.9 FLOOR: 4" CONC SLAB W/6x6-W2.9xW2.9 L4x4x1/4 SHOP WELD TO BEAM-REINFG ON 1.0C, 26 GA, GALV DECK REINFG ON 1.0C, 26 GA, GALV DECK T/FIN FLOOR = 112'-0" T/FIN FLOOR = 112'-0" T/BEAM = 111'-8" T/BEAM = 111'-8" _____ BEAM BRG = VARIES BEAM BRG PLATE 3/8"x5 1/2"x0'-8" W/(2)-1/2" DIA.x 4" HEADED STUDS BOND BEAM W/(2)-#5 --8" REINF CONC BLOCK

WHERE DECK EXTENDS OVER WALL





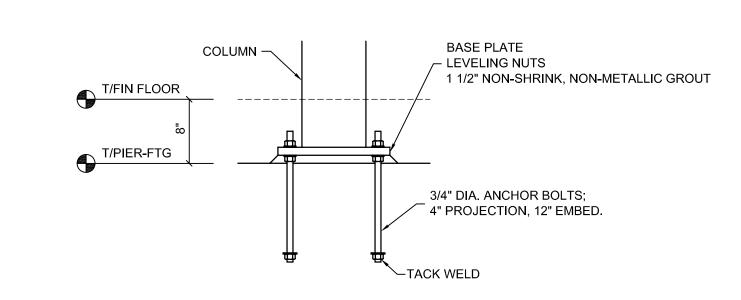




Section

Section Section SCALE: 3/4" = 1'-0" SCALE: 3/4" = 1'-0" PERIMETER L4x4x1/4 W/5/8" DIA. FLOOR: 4" CONC SLAB W/6x6-W2.9xW2.9 FLOOR: 4" CONC SLAB W/6x6-W2.9xW2.9 SLEEVE ANCHORS AT 24"OC REINFG ON 1.0C, 26 GAUGE, GALV DECK REINFG ON 01.0C, 26 GAUGE, GALV DECK T/FIN FLR = 112'-0" T/FIN FLR = 112'-0" T/ANGLE = 111'-8" T/ANGLE = 111'-8" T/BOND BM = 111'-4" T/BOND BM = 111'-4" CONT L7x4x3/8 (LLV) W/5/8" DIA. SLEEVE CONT L7x4x3/8 (LLV) W/5/8" DIA. SLEEVE ANCHORS AT 24"OC, GROUT CORE ANCHORS AT 24"OC, GROUT CORE SOLID AT ANCHOR SOLID AT ANCHOR BOND BEAM W/(2)-#5 -BOND BEAM W/(2)-#5 -REINF CONC BLOCK-REINF CONC BLOCK-

Section (Alt #1)



Typ Column to Fdtn Connection AT CONVENTIONAL COLUMNS

- 1. Contractor shall be responsible for all existing dimensions and job site conditions. If discrepancies between actual conditions and those shown on documents exist, notify Architect/Engineer in writing prior to construction.
- 2. Governing building codes are as follows: a. Latest International Building Code and Indiana Construction
- b. A.C.I. Building Code Requirements for Reinforced Concrete (A.C.I. 318-11).
- c. Code of Standard Practice for Steel Construction, A.I.S.C. 14th Edition.
- The structure is designed to be self-supporting and stable after the building is fully completed. It is solely the contractor's responsibility to determine erection procedure and sequence and to insure the safety of the building and its component parts during erection. This includes the addition of whatever shoring, sheeting, temporary bracing, guys or tiedowns which might be necessary. Such material shall remain the contractor's property after completion of the project.
- 4. Do not determine dimensions by "scaling" off the plans. The Contractor shall accept all risk associated with "scaling" and shall be responsible for all inadequate work resulting therefrom. Questions regarding missing or conflicting dimensions shall be directed, in writing, to the Structural Engineer.
- 5. The Contractor shall coordinate and check all dimensions relating to architectural finishes, structural framing, mechanical openings, equipment, etc. Notify Architect/Engineer of any discrepancies before proceeding with work in area under question.

FOUNDATION NOTES AND REQUIREMENTS

- 1. Remove topsoil, existing fill material, debris, organic pockets, etc. from building and pavement areas. After stripping, proof roll areas and remove soft pockets.
- Structural fill shall be compacted to 95% modified proctor density under floor slabs (4" minimum drainage fill under floor slabs). Structural fill under footings must be compacted to 98% modified proctor density. Fill material shall be placed in layers not to exceed 6" in loose thickness.
- See soils report by GME Testing dated August 30, 2021.
- 2. Bottoms of all footings shall be protected from moisture damage by placing 2" seal of lean concrete if the foundation cannot be cast immediately.
- 3. Backfilling of all walls shall be of clean granular fill compacted in 8" maximum layers except the top 18" of backfill occuring outside of the building (not including sidewalks adjacent to building) shall be of well compacted clay as a seal against surface water intrusion. Backfill occuring against both faces of any wall shall be placed simultaneously.
- 4. Net allowable soil bearing pressures are as follows: a. Spread footings: b. Continuous wall footings: 1500 psf
- 5. Owner's soil engineer shall field inspect all footings at depths indicated to confirm that soil bearing pressure is as noted on these documents. If suitable bearing is not obtained at depth indicated, soil engineer shall direct method of obtaining stated bearing pressure. Method shall be approved by Architect/ Engineer prior to construction. Under no condition shall footings be placed on soft or filled material.
- 6. Exterior footings shall bear 3'-0" minimum below finish grade
- and shall bear on undisturbed soil. Minimum concrete strengths and densities shall be as follows:
- a. Foundations and Interior concrete 3,000 psi b. Interior flat work 4,000 psi c. Exterior flat work 4,000 psi
- 8. Minimum concrete coverage over reinforcing steel shall be as follows: At foundations At all dirt faces of walls and wall faces exposed to weather
- 1 1/2" At all pier, ties and beam stirrups 9. All reinforcing steel shall be ASTM A-615, Grade 60. All W.W.M. shall be of cold drawn wire and shall meet all re-
- quirements of ASTM A-185. Provide shop drawings and/or manufacturer's data for reinforcing steel, forming accessories, admixtures, joint materials and concrete mix design information. Shop drawings shall be

approved prior to construction.

- 11. For exact size, number and location of anchor bolts, see approved structural drawings prepared by metal building manufacturer or structural steel supplier.
- 12. All footings shall be centered at centerline location of column base plate, unless noted otherwise.
- 13. All hairpins shall be placed around anchor bolts and into center of slab.
- 14. Contractor shall verify that the concrete piers shown on the drawings are adequate in size to accept column base plates. Pier shall be minimum of 1" larger than column base plate on
- 15. Contractor shall submit to Architect/Engineer, final column reactions for verification of footing sizes and reinforcement prior to commencing construction.
- 16. All slabs on grade shall have a 15'-0" maximum distance between construction or control joints. (UNO). Control joints shall be located along column lines wherever possible. Provide expansion joint (diamond shape) isolation at columns. Saw cuts shall be a quarter of the thickness of the slab. No portion of slab between joints shall have a length which exceeds 150% of the width.

Section

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

- 1. Hollow load-bearing normal weight units shall conform to ASTM C-90, Grade A, minimum fm = 1,350 psi.
- 2. Bond beam block units and pilaster block units shall be of same aggregate and surface texture as wall units.
- 3. Install horizontal reinforcement, Dur-O-Wall or equal, in alternate joints of walls starting with the first joint

above starting course.

- 4. Concrete block shall be laid up in running bond with 3/8" thick
- 5. Mortar shall conform to the latest edition of ASTM C-270. Mortar shall be Type N for interior non-load bearing walls. For exterior and load bearing walls, mortar shall be Type M below grade and Type S above grade.
- 6. Intersecting masonry walls and partitions shall be bonded by use of steel ties at 24" oc maximum. Corners shall have a standard masonry bond by overlapping units.
- 7. Mortar droppings shall be kept out of grout space.
- 8. All grout shall be puddled or vibrated in place. 9. Hollow unit masonry shall be grouted in vertical lifts not to
- exceed 4'-0".
- a masonry pilaster grout two block courses full beneath bearing 11. Install CMU bond beams with (2)-#5 bars beneath structural

10. Where steel framing bearing plates bear on masonry without

bearing plate elevations and at/or beneath deck bearing angles on load bearing walls, at top of block walls and at intermediate locations as noted by architectural/structural drawings.

REINFORCED MASONRY

- 1. Reinforcing steel shall be lapped 40 bar diameters minimum where spliced (U.N.O.).
- 2. Vertical reinforcing shall have a minimum clearance of 1/4"
- 3. Cells containing reinforcement shall be solidly filled with grout and pours shall be stopped 1 1/2" below top of a course to form a key at pour joints.
- 4. All reinforcing bars shall be Grade 60.
- 5. Provide shop drawings and/or manufacturer's data for the following: reinforcing steel and masonry units. Shop drawings shall show location, size and placement details for all reinforcing bars. Work shall not be started until shop drawings have been approved.
- 6. Where the grout pour exceeds 4'-0" in height, cleanouts shall be provided by suitable openings in the face shells in the bottom course of each cell to be grouted or other approved locations. The cleanouts shall be sealed after inspection and before grouting.
- 7. All cells containing reinforcement shall be filled solidly with grout. Grout shall be a workable mix suitable for pumping without segregation and shall be thoroughly mixed. Grout shall be placed before initial set or hardening occurs. Grout shall be consolidated by puddling or mechanical vibration during placing and reconsolidated after excess moisture has been absorbed but before workability is lost. The grouting of any section of wall shall be completed in one (1) day with no interruptions greater than one (1) hour.
- 8. All reinforcing shall be in place prior to grouting. Vertical reinforcing bars shall be held in positions at the top, bottom and at intervals not farther apart than 192 bar diameters. Provide 'Heckmann' rebar positioner no. 376 or equal.
- 9. Grout for reinforced masonry wall: a. For minimum cell dimension of 2"x3" use fine grout.
- b. For minimum cell dimension of 4" use coarse grout. c. For minimum cell dimension of 5" to 6", the grout space may be filled with concrete with f'c = 3000 psi and maximum aggregate size of 1".
- d. Grout shall be of fluid consistency and conform to ASTM C-476. Cement content of grout ranges from 6 to 8 bags of portland cement per cubic yard of grout. Grout shall meet minimum 3000 psi at 28 days, having a 3/4" maximum aggregate size, and an 8 to 11 inch maximum slump.
- 10. Vertical cells to be filled shall have vertical alignment sufficient to maintain a clear, unobstructed, continuous, vertical cell measuring not less than 2"x3". If walls are battered or if alignment is offset, the 2"x3" clear opening shall be maintained as measured from course to course. Exces-
- 11. Provide vertical reinforcing above masonry openings in exterior/

STRUCTURAL STEEL

1. All structural steel shall be detailed with load transmitting field connections made with bearing-type 3/4" diameter ASTM A-325 bolts (snug-tight) UNO. All high strength bolts shall be designed as bearing "N" type so that continuous special inspection is not needed unless indicated otherwise on drawings. Shop connections shall be welded. Use no more than two bolt diameters for the project UNO. Skip one size between bolt diameters

METAL STAIRS

1. Steel fabricator shall design and provide metal stairs as

1. All structural members shall be designed to resist the fol-

b. Wind load - per Latest I.B.C. Exposure C.

- Mechanical units, ducts and lighting

2. Combining of normal and auxiliary loads for design purposes

shall be as prescribed by Latest International Building Code

3. Members not sized or shown on plans and sections shall be as

4. Building manufacturer shall provide anchor bolt layout plan.

1. Provide shop drawing details and layout of metal roof and

2. All design, fabrication and erection of metal roof and form

3. Provide deck units in lengths to span at least three (3)

to manufacturer's recommendations.

required to resist negative moment.

deck shall be in accordance with SDI "Metal Deck Specifica-

tions". Fasten deck to supporting steel members according

supports; nested 2" end laps; nested or interlocking side laps.

4. Provide L3 1/2x3 1/2x1/4 welded frame at all floor/roof openings

12"x12" or larger. See typical floor/roof opening detail.

5. Provide form/deck bearing angle to all (4) sides of columns

that penetrate floor/roof. Shop weld angles to columns.

6. Provide 14 gauge pour stop closure plates where floor decks

at different elevations meet and are not separated by a wall.

7. At longspan deck provide units in lengths to span at least three

(3) supports with 12" nested end laps; nested or interlocking

supports for continuity, provide increased lap or flat top plate as

side laps. Where longspan deck is unable to span three (3)

1.0C DECK

FLOOR DECK ATTACHMENT SCHEDULE

35/4

36/4

SIDELAP: HILTI S-SLC 01 M HWH SCREWS

FASTENER PATTERN | FRAME FASTENER TYPE

HILTI X-HSN 24

HILTI X-HSN 24

5. Building manufacturer shall submit complete structural analy-

sis and shop drawings of building system to engineer prior to

PREENGINEERED METAL BUILDING

c. Lateral deflection - drift h/360.

and Indiana Construction Rules.

designed by building manufacturer.

Piping and sprinklers

lowing loads:

fabrication.

form deck for approval.

METAL DECK

DECK TYPE

GALV 0.6C, 26 GA.

GALV 1.0C, 24 GA.

a. Live load - 20 psf.

d. Collateral - 5 psf.

required by the International Building Code and schematically

shown by architectural drawings for layout and specific details.

drawings and coordinated with general and masonry contractors.

3. Provide shop drawings to Architect for approval prior to fabrication.

2. All embedded items for stair support shall be shown on erection

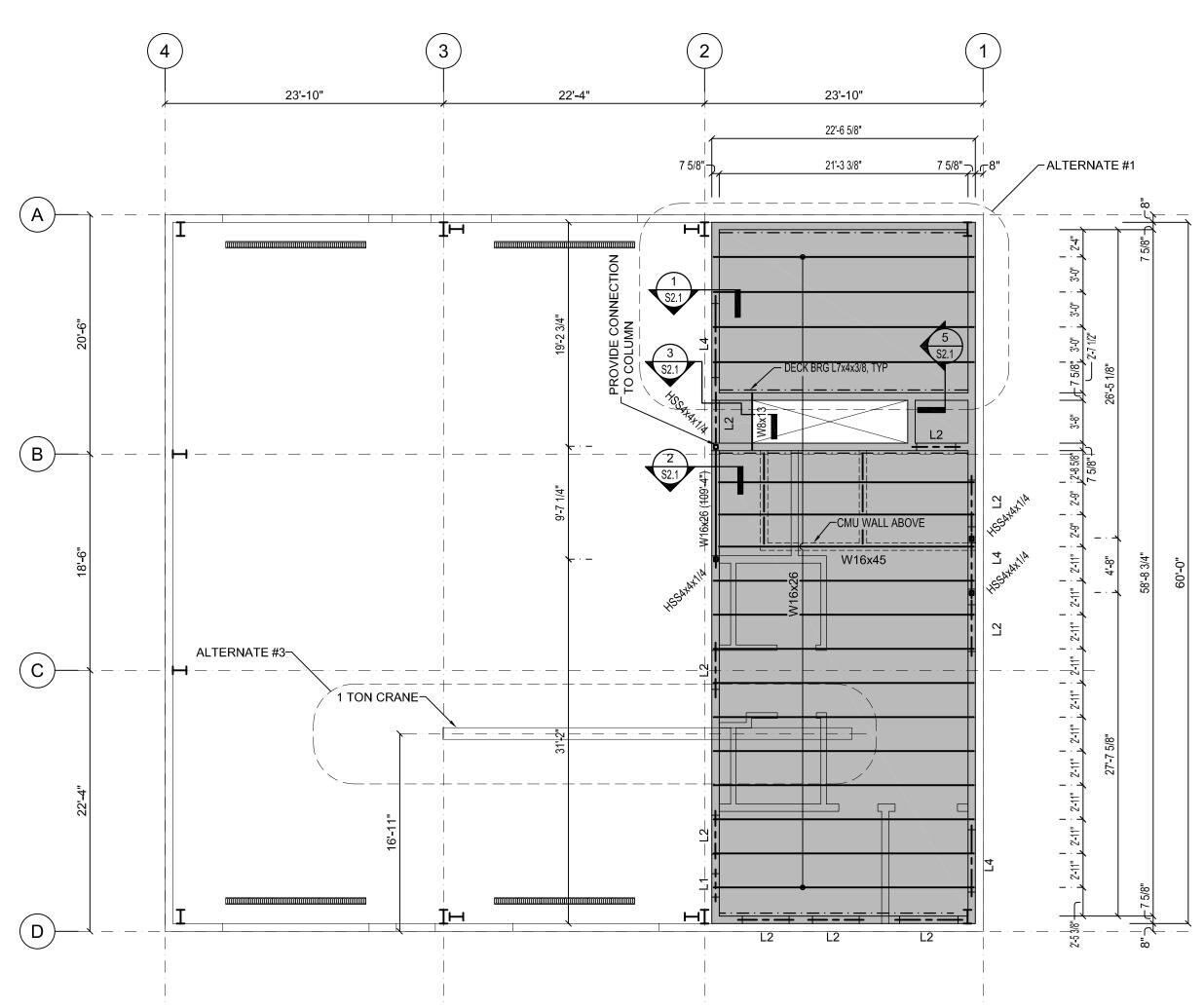
- 2. Hinged beam web splices where required are shown on the plan by the following symbol: — . A flexible hinge splice shall be provided sufficient for shear. All connections and splices shall be clearly detailed on the shop drawings for approval. Splicing of members at locations not detailed on drawings is prohibited without approval of Engineer as to location and connection details.
- 3. Structural steel material is as follows: ASTM A992 a. Wide flange shapes b. Structural steel plates and rolled shapes ASTM A36 other than wide flange shapes ASTM A500, Grade B c. Structural steel tubing d. Structural steel pipe ASTM A53, Grade B
- 4. Provide 1/4" beam stiffeners to all beams at center line of columns crossed over by beams except where framed connections of other beams occur.
- 5. Set leveling or bearing plates on cleaned bearing surfaces using wedges or other adjustments as required. Solidly pack open spaces with non-shrink, non-metallic grout.
- 6. Field welds to be made with E70XX electrodes according to AWS. Welded connections using ASTM A992 steel as a base metal shall be made with E70XX low hydrogen electrodes.
- 7. All design, fabrication and erection of structural steel shall be in accordance with AISC and AWS specifications.
- 8. All connections not specifically detailed on contract documents shall be designed and detailed by the structural steel fabricator in compliance with AISC standards. All connections shall be clearly shown on final shop drawings submitted for approval prior to fabrication.
- 9. Lintels not indicated on plans are as follows: a. Provide angle lintels over all openings and recesses in both interior and exterior walls unless otherwise noted. All lintels for mechanical and electrical openings are not shown. See mechanical and electrical plans for locations of lintels and lengths required for ductwork,
- pipes, electrical conduits, etc. b. Angle lintels shall have a minimum end bearing on masonry of 4 1/2", but not less than 1" of such bearing for each foot of opening width. Angles in pairs shall be welded or bolted together with 1/2" diameter bolts at 18" oc. In case of single angle, anchor to concrete or masonry backup with 1/2" diameter expansion type anchors at 18" oc.
- c. For 6" block partitions use two (2)-L3 1/2x 2 1/2x 5/16 (LLV) for spans up to 10'-0". For 8" to 10" block partitions use two (2)-L4x 3 1/2x 5/16 (LLV) for spans up to 7'-0". For spans 7'-0" to 10'-0" use two (2)-L5x 3 1/2x 3/8 (LLV). For 12" walls use three (3) angles as specified for 8" to 10" walls above.
- d. Coordinate masonry rough openings with all trades.
- 10. Shop drawings shall show complete details and schedules for fabrication, layout and erection. Submit shop drawings for approval prior to fabrication.
- 11. All beams and beam lintels shall be field welded to bearing plates with 3/16" fillet weld each side of bottom flange.
- 12. All exposed steel lintels shall be galvanized. See architectural

for painting specifications.

- 13. Field drilled holes shall be reamed, cleaned and deburred prior to assembly of the connection.
- 14. Beams with specified camber shall be cambered upward. Beams without specified camber shall be fabricated so that after erection any minor camber due to rolling or shop assembly is upward.
- 15. Thermal cutting shall preferably be done by machine. Hand thermally cut edges subjected to substantial stress or are to be welded, shall be easonably free of notches or gouges. Notches or gouges larger thar 3/16" that remain from cutting shall be removed by grinding. Re-entrant corners shall be shaped notch-free to a radius of at least 1/2".
- 16. Erector shall maintain minimum temporary bracing at each bay in each direction until the roof diaphragm and permanent lateral load resisting system construction are complete.
- 17. Fabricator shall be responsible for design of all connections not specifically detailed on the plans. Where end reaction are not shown on the plans, design simple beam connections for at least 50% of the allowable uniform size. Use ASD values unless noted otherwise.

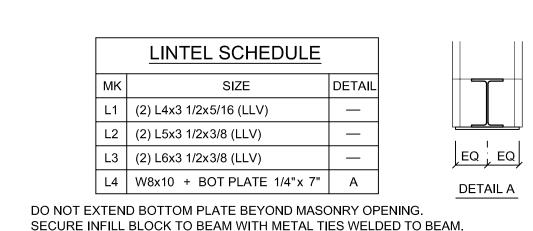
Typ Deck End Bearing at Floor SCALE: 3/4" = 1'-0"

WHERE DECK EXTENDS OVER WALL AT CHASE



(4)-HOLES FOR 3/4" DIA. ANCHOR BOLTS)-HOLES FOR 3/4" DIA. ANCHOR BOLTS ─ 3/4" THICK AT HSS4x4x1/4 COLS AT HSS4x4x1/4 COLS

Base Plate Details SCALE: 1" = 1'-0" AT CONVENTIONAL COLUMNS



L (MECH): DESIGNATES LINTELS LOCATED AT MECHANICAL OPENINGS

AND ARE SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR.

Mezzanine Framing Plan SCALE:1/8" = 1'-0"

1. FLOOR (SHADED AREA): 4" CONCRETE SLAB W/6x6-W2.9xW2.9 REINFORCING ON 1.0C, 26 GAUGE, GALVANIZED DECK. T/FINISH FLOOR = 112'-0". FOR TYP SECTIONS AT FLOOR JOIST BEARING AND DECK BEARING SEE SHEET S2.1. 2. PROVIDE BEAM BRG PLATES 3/8"x5"x0'-7" AT FLOOR BEAMS.

3. BRG PLATES SHALL HAVE (2)-1/2" DIA.x 4" HEADED STUDS INTO BOND BEAM. 4. INSTALL (2)-#5 IN BOND BEAMS. 5. SEE FDTN PLANS AND SECTIONS FOR CONC BLOCK VERTICAL WALL REINFG. 6. (000'-0"): DESIGNATES TOP OF BEAM. 7. SEE STRUCTURAL STEEL NOTE #9, SHEET S2.1 FOR NON-LOAD BEARING LINTELS (UNO). THESE WOULD INCLUDE ALL NEW DOORS, WINDOWS, WALL OPENINGS

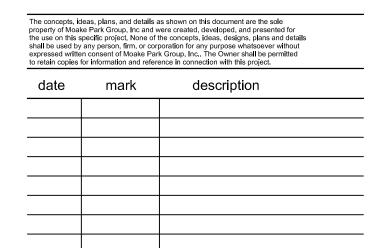
AND MECHANICAL WALL PENETRATIONS NOT INDICATED ON PLANS. 8. PROVIDE BRG PLATES 1/2"x7"x0'-7" UNDER EACH END OF BEAMS AND BEAM LINTELS, WELD BEAMS/BEAM LINTELS TO PLATE (TYP UNO). 9. ALL BRG PLATES SHALL HAVE (2)-1/2" DIA.x 4" HEADED STUDS. 10. ALL BRG PLATES SHALL HAVE (2) COURSES GROUTED SOLID UNDER PLATE.

11. BEAMS AND BEAM LINTELS SHALL HAVE FULL LENGTH (OR WIDTH) BRG ON

12. PROVIDE 5/8" (MINIMUM) CAP PLATES AT COLUMNS. 13. PROVIDE 1/4" STIFFENER PLATES EACH SIDE OF WEB WHERE BEAM EXTENDS OVER COLUMN.

BRG PLATES (UNO).

A PROJECT FOR:



date: 3/2/2022

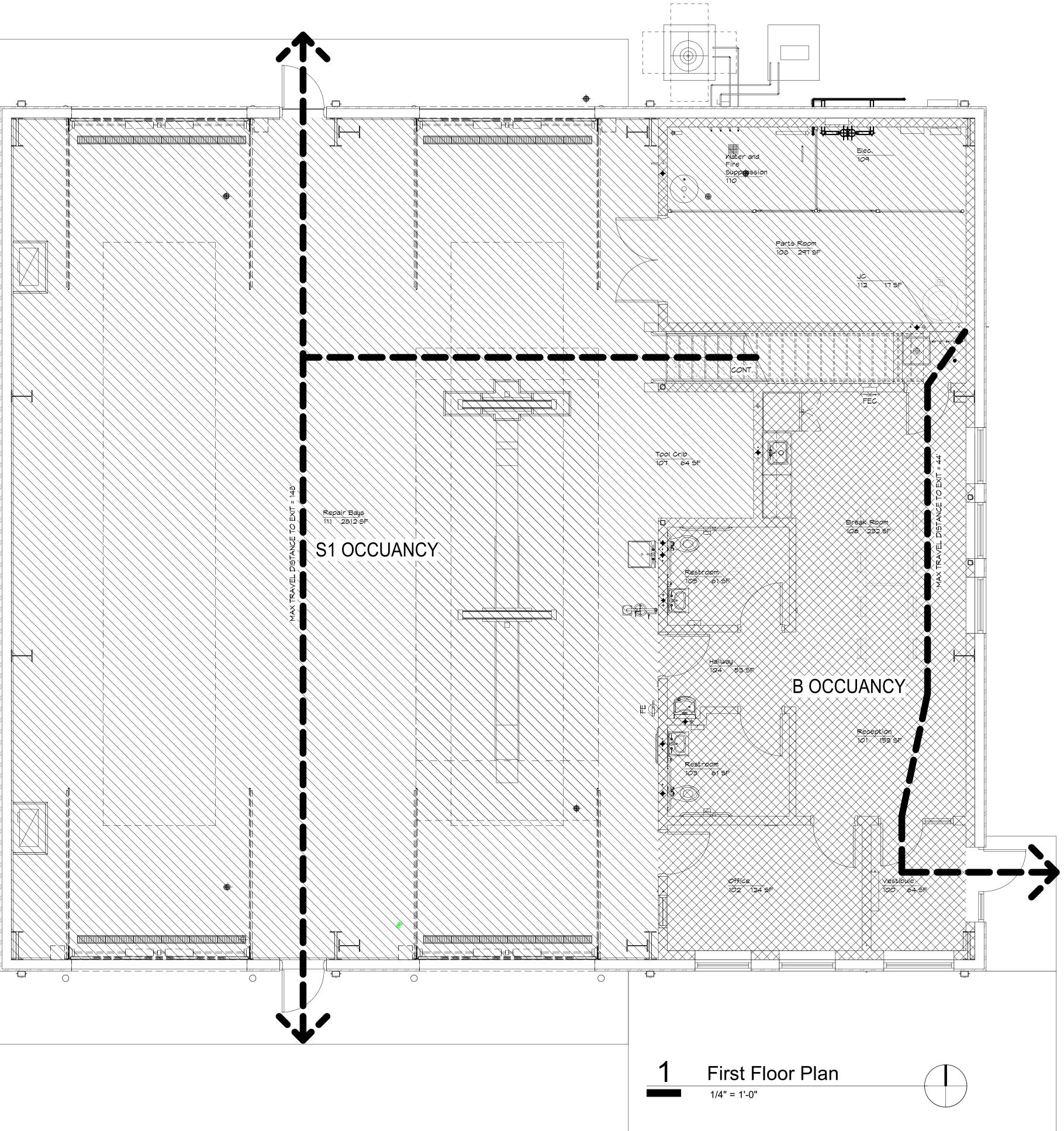
MEZZANINE FRAMING PLAN

project: 473003 coordinator: JMO drawn: EPH checked: KEH

load given in the beam tables in Chapter 3 of the AISC Steel Construction Manual - Allowable Stress Design (14th Ed.) for the given span and beam sive mortar fins and any other obstructions shall be removed. interior walls to match wall vertical reinforcing adjacent to openings.

+ + + + (1141/3*00* = ` 4 occupants S1 OCCUANCY MAX TRAVEL DISTANCE TO EXIT = 148'





CODE REQUIREMENTS

2012 INTERNATIONAL BUILDING CODE WITH INDIANA AMENDMENTS CITY/ COUNTY : Centerville, Mayne County ADDRESS: 200 M South Street Centerville, IN 47330 CLOSEST INTERSECTION: Ash Street and M South Street DIRECTION FROM INTERSECTION: East SEWER TYPE : Public FACILITY USE : Maintenance Facility SCOPE OF WORK : New Construction BUILDING OCCUPANCY GROUP CONSTRUCTION TYPE : MAXIMUM HEIGHT (STORY) MAXIMUM ALLOWABLE AREA : UNLIMITED, 507.3 AUTOMATIC FIRE EXTINGUISHING SYSTEM : YES NO. OF PERSONS (PUBLIC) NO. OF PERSONS (STAFF) HANDICAP ACCESSIBILITY : NO. OF STORIES:

LEGEND

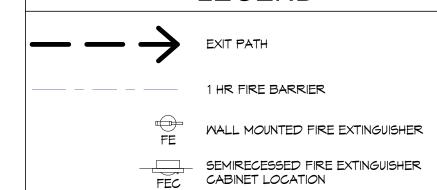
4,380 SF 1,3*0*3 SF

5,683 SF

GROSS BUILDING AREA 1ST FLR. :

TOTAL GROSS BUILDING AREA :

GROSS BUILDING AREA MEZZANINE :



SEE ELEC. DWGS. FOR MANUAL FIRE ALARM PULL STATION LOCATIONS

FIRESTOPPING

- A. FOR ALL FLOOR AND/OR FLOOR & CEILING ASSEMBLIES IDENTIFIED AS A FIRE RATED ASSEMBLY, THE CONTRACTOR SHALL ISOLATE ALL THROUGH & MEMBRANE PENETRATIONS WITH SPECIFIED FIRESTOPPING SYSTEM TO MAINTAIN THE RATING OF THE ADJACENT FLOOR AND/OR FLOOR & CEILING ASSEMBLY.
- B. FOR ALL WALL ASSEMBLIES IDENTIFIED AS A FIRE RATED WALL ASSEMBLY CONTRACTOR SHALL ISOLATE ALL THROUGH & MEMBRANE PENETRATIONS, AND TOP OF WALL TO DECK TRANSITIONS WITH SPECIFIED FIRESTOPPING SYSTEM TO MAINTAIN THE RATING OF THE ADJACENT WALL ASSEMBLY.
- C. FOR ALL ROOF AND/ OR ROOF & CEILING ASSEMBLIES IDENTIFIED AS A FIRE RATED ASSEMBLY, THE CONTRACTOR SHALL ISOLATE ALL THROUGH & MEMBRANE PENETRATIONS WITH SPECIFIED FIRESTOPPING SYSTEM TO MAINTAIN THE RATING OF THE ADJACENT ROOF AND/OR ROOF & CEILING ASSEMBLY.
- D. THROUGH & MEMBRANE PENETRATIONS SHALL INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING
- STRUCTURAL FRAMING 2. MECHANICAL COMPONENTS
- 3. ELECTRICAL COMPONENTS 4. PLUMBING COMPONENTS
- 5. FIRE PROTECTION COMPONENTS 6. FOOD SERVICE COMPONENTS
- 7. AUDIO/DATA/SECURITY/COMMUNICATION COMPONENTS E. WALL SECTIONS AND/ OR DETAILS MAY ILLUSTRATE SELECTED COMPONENTS THAT PENETRATE A FIRE RATED ASSEMBLY, HOWEVER THE CONTRACTOR IS RESPONSIBLE TO COORDINATE THE ENTIRE SCOPE OF FIRESTOPPING WORK WITH THE CONSTRUCTION
- ALL WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE UNDERWRITERS LABORATORY, INC. DIRECTORY FIRE RESISTANCE MANUAL - VOLUME 2
- G. A THIRD PARTY TESTING AGENCY SHALL VERIFY THAT ALL THROUGH AND MEMBRANE PENETRATIONS IN ALL DESIGNATED FLOOR, FLOOR & CEILING, WALL, ROOF & ROOF & CEILING RATED ASSEMBLIES HAVE BEEN FIRESTOPPED, ARE LABELED ACCORDING TO THE APPLICABLE U.L. TESTED ASSEMBLY, AND REFERENCE THE RATING OF THE ASSEMBLY.
- H. PAINTING CONTRACTOR SHALL LABEL ALL FIRE RATED WALL ASSEMBLIES THROUGHOUT THE PROJECT. IDENTIFICATION SHALL CONSIST OF 2" HIGH STENCILED LETTERING IN SAFETY ORANGE COLOR 1'-0" ABOVE THE FINISHED CEILING. IDENTIFICATION SHALL BE LOCATED AT ALL CROSS CORRIDOR LOCATIONS AND A MAXIMUM OF 20'-O" ON CENTER ALL OTHER LOCATIONS.

FIRE RESISTANCE RATING REQUIREMENTS

Construction Type II-B * NEPA 101 Const. Type II (000)

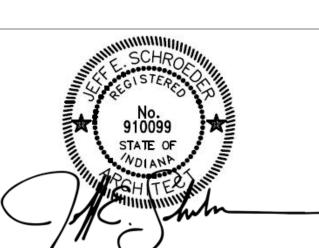
| NFPA 101 Const. | rype ir (000) |
|-----------------------------------|------------------------|
| STRUCTURAL FRAME | RATING U.L. DESIGN NOS |
| COLUMNS | 0 hrs |
| BEARING WALLS | O laws |
| EXTERIOR | 0 hrs |
| INTERIOR | 0 hrs |
| NON-BEARING WALLS AND PARTITIONS | |
| EXTERIOR | O hrs |
| INTERIOR | Ohrs ** |
| FLOOR CONSTRUCTION | |
| SUPPORTING BEAMS | 0 hrs |
| JOISTS | 0 hrs |
| 5" CONC. SLAB/MTL FLR DECK | O hrs |
| ROOF CONSTRUCTION | |
| SUPPORTING BEAMS | 0 hrs |
| JOISTS | 0 hrs |
| METAL ROOF DECK | O hrs |
| * NONCOMBUSTIBLE CONSTRUCTION R | REQUIRED |
| ** SEE DRAWING AND LEGEND FOR HIS | |
| | |

Incidental Use Area Separation

| moderital ose / trea deparation | | | |
|--|-------------------------------------|--|--|
| CLINICAL LABORATORY | AUTO. FIRE-EXT. SYSTEM | | |
| FURNACE ROOM WHERE LARGEST PIECE OF EQUIPMENT IS OVER 400,000 BTU PER HOUR INPUT | AUTO. FIRE-EXT. SYSTEM | | |
| BOILERS OVER 15 PSI AND 10 HP | AUTO. FIRE-EXT. SYSTEM | | |
| LAUNDRY ROOM OVER 100 SQUARE FEET | 1 Hour or AUTO. FIRE-EXT. SYSTEM | | |
| STORAGE ROOM OVER 100 SQUARE FEET | 1 Hour or AUTO. FIRE-EXT. SYSTEM | | |
| WASTE AND LINEN COLLECTION ROOM OVER 100 SQUARE FEET | 1 Hour or AUTO. FIRE-EXT. SYSTEM | | |



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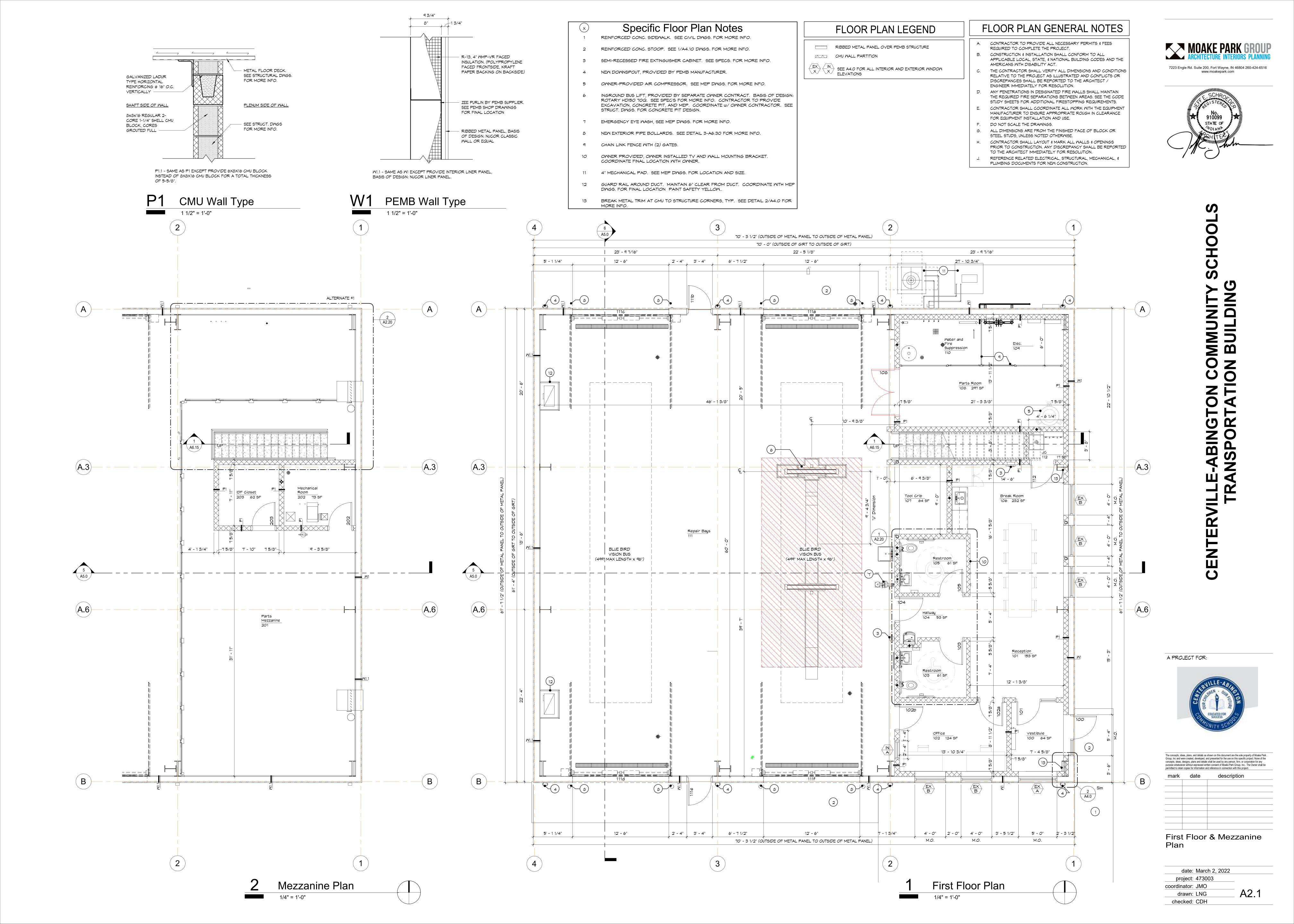
A PROJECT FOR:



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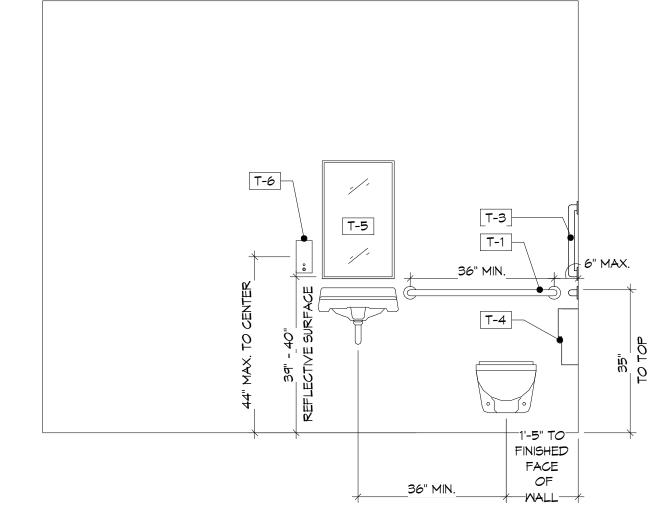
Life Safety Plans, Legends and Notes

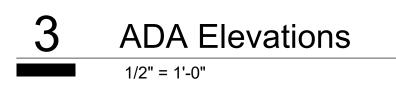
date: March 2, 2022 project: 473003 coordinator: JMO A0.1 drawn: JMO checked: CDH



| Accessory Schedule | | | | | | |
|--------------------|---|----------------------------|-----------|----------|-----------|----------|
| Type Mark | Description | Manufacturer | Model | Supplier | Installer | Comments |
| T-1 | 36" GRAB BAR | American Specialties, Inc. | 3800x36 | G.C. | G.C. | |
| T-2 | 42" GRAB BAR | American Specialties, Inc. | 3800x42 | G.C. | G.C. | |
| T-3 | 18" VRTICAL GRAB BAR | American Specialties, Inc. | 3800x18 | G.C. | G.C. | |
| T-4 | TOILET PAPER DISP. | Owner Provided | TBD | Owner | G.C. | |
| T-5 | Mirror - Stainless Steel, Chan-Lok Frame - Plate Glass - 24"W X 36"H (0620-2436) | American Specialties Inc. | 0620-2436 | G.C. | G.C. | |
| T-6 | Soap Dispenser - Liquid, Psuh Button Valve - 40 oz Surface Mounted (0347) | American Specialties Inc. | 0347 | G.C. | G.C. | |
| T-7 | PAPER TOWEL DISP. | Bobrick | B-263 | G.C. | G.C. | |
| T-8 | Shelf/Utility Hook & Mop Strip w/ Drying Rod - 2 Hooks, 3 Holders - 30"L - Surface Mounted (1315-3) | American Specialties Inc. | 1315-3 | G.C. | G.C. | |

___39"-41"____ T-5

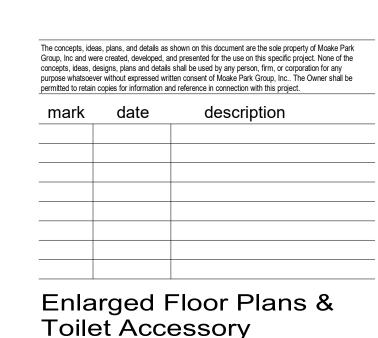




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A PROJECT FOR:

5 5/8"



Enlarged Floor Plans & Toilet Accessory Schedule

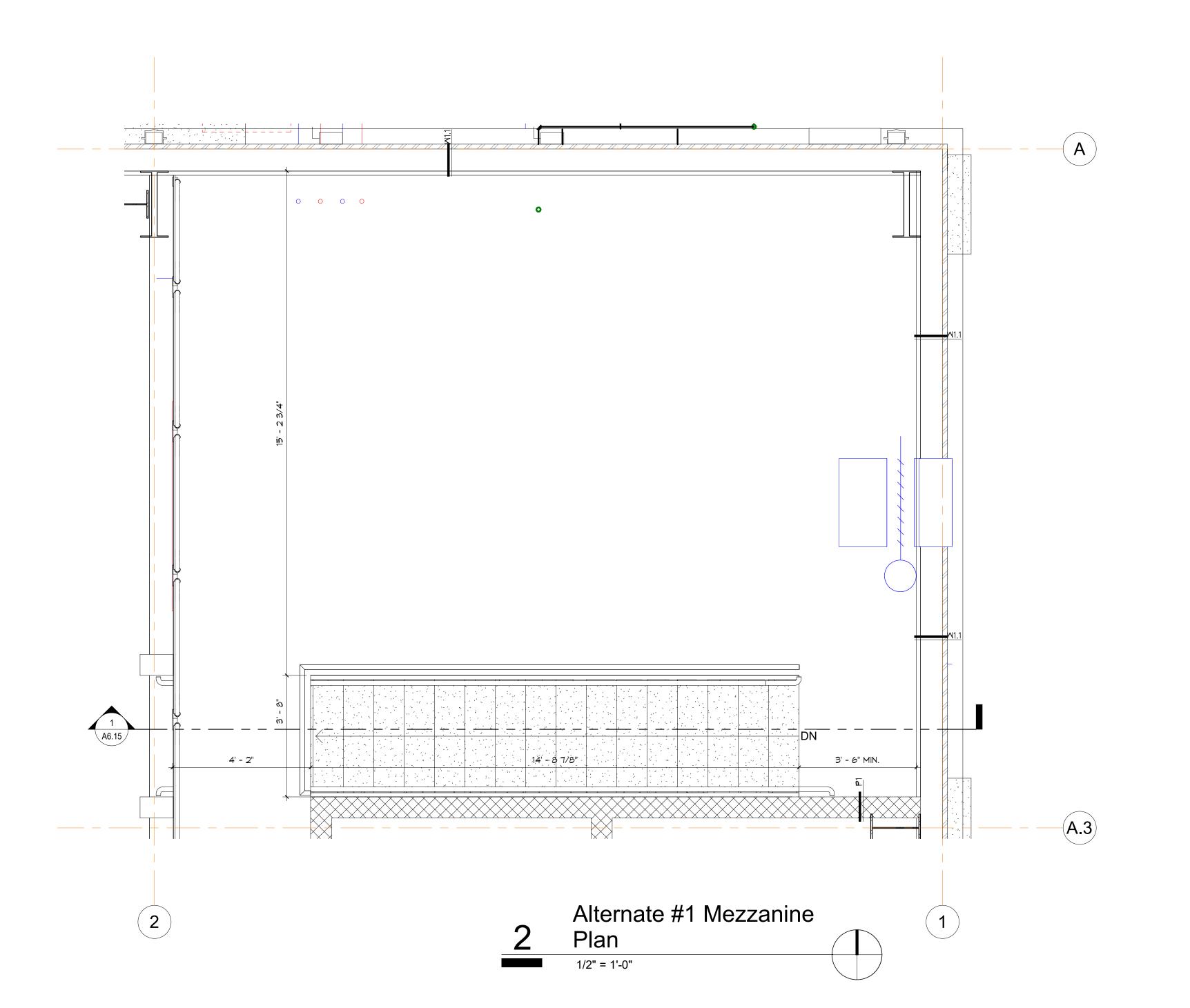
| | March 2, 2022 | date: |
|------|---------------|--------------|
| | 473003 | project: |
| | JMO | coordinator: |
| A2.2 | LNG | drawn: |
| - / | CDH | checked: |
| | | |

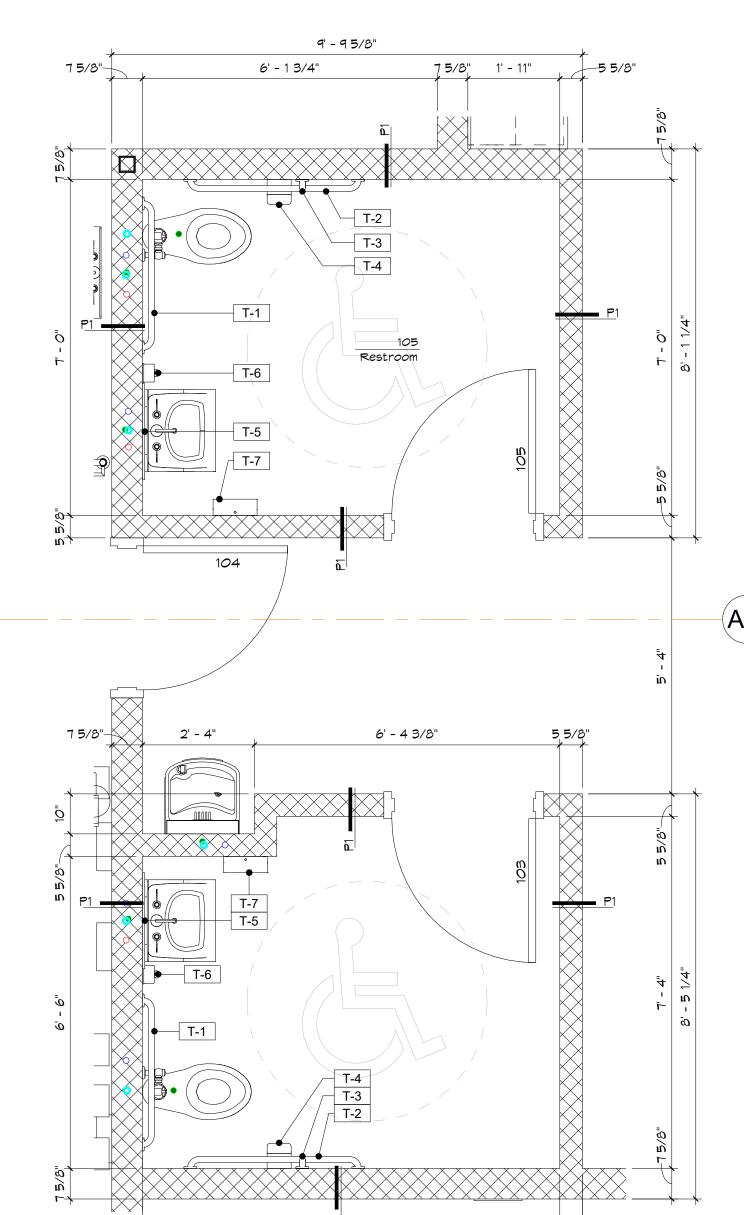
GENERAL TOILET ACCESSORY NOTES:

- A. MANUFACTURERS AND MODEL NUMBERS ARE USED FOR QUALITY CONTROL ONLY. THEY ARE NOT INTENDED TO LIMIT TO ONE MANUFACTURER. SUBMIT ALTERNATE PRODUCT INFORMATION AS PER THE PROVISIONS OF THE BID DOCUMENTS.
- B. PROVIDE BLOCKING FOR ALL GRAB BARS, TOWEL BARS, AND ALL ACCESSORIES.
- C. SEE FLOOR PLANS, ENLARGED PLANS, AND FINISH PLANS FOR ADDITIONAL TOILET ACCESSORY NOTATION.
- D. CONTRACTOR TO LOCATE CHASE ACCESS DOORS IN HANDICAP TOILET STALLS ABOVE THE GRAB BARS UNLESS NOTED OTHERWISE. E. CONTRACTOR TO COORDINATE & ADJUST HORIZONTAL MOUNTING LOCATIONS WITH ADJACENT ACCESSORIES TO
- MAINTAIN CLEARANCE WITHIN THE STALL & TO COMPLY WITH ADA ACCESSIBILITY REQUIREMENTS. F. SEE REFLECTED CEILING PLANS FOR CEILING MOUNTED SHOWER CURTAIN TRACKS AND CURTAINS.
- G. CONTRACTOR TO INSTALL ACCESSORIES TO COMPLY WITH CURRENT ADA CODE. SEE SHEET A2.20 FOR MOUNTING HEIGHT DIAGRAMS.
- H. ALL SINKS TO HAVE T-6 SOAP DISPENSER UNLESS NOTED OTHERWISE. J. ALL J.C.'S TO HAVE MOP AND BROOM HOLDER, TYP.

SPECIFIC TOILET ACCESSORY REMARKS:

- 1. THIS ITEM ALSO APPEARS ON THE EQUIPMENT SCHEDULE. SEE FLOOR FINISH PLANS FOR OTHER LOCATIONS/NOTATIONS. 2. COORDINATE EXACT MOUNTING LOCATION W/ OWNER PRIOR TO INSTALLATION. LOCATIONS MUST COMPLY WITH ADA REQUIREMENTS
- 3. VERIFY MANUFACTURERS HEIGHT INSTALLATION REQUIREMENTS.
- 4. SEE SPECS. FOR MORE INFO.





8' - 8 3/8" 9' - 9 5/8"

Enlarged Floor Plan

7 5/8"

Repair Bay (below)

4

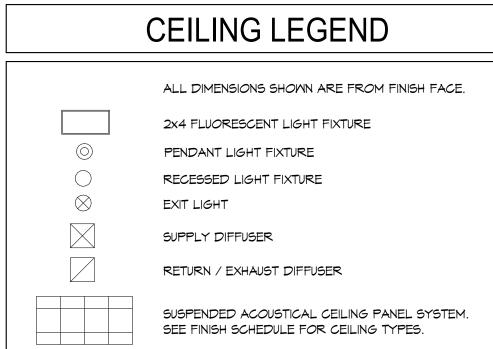
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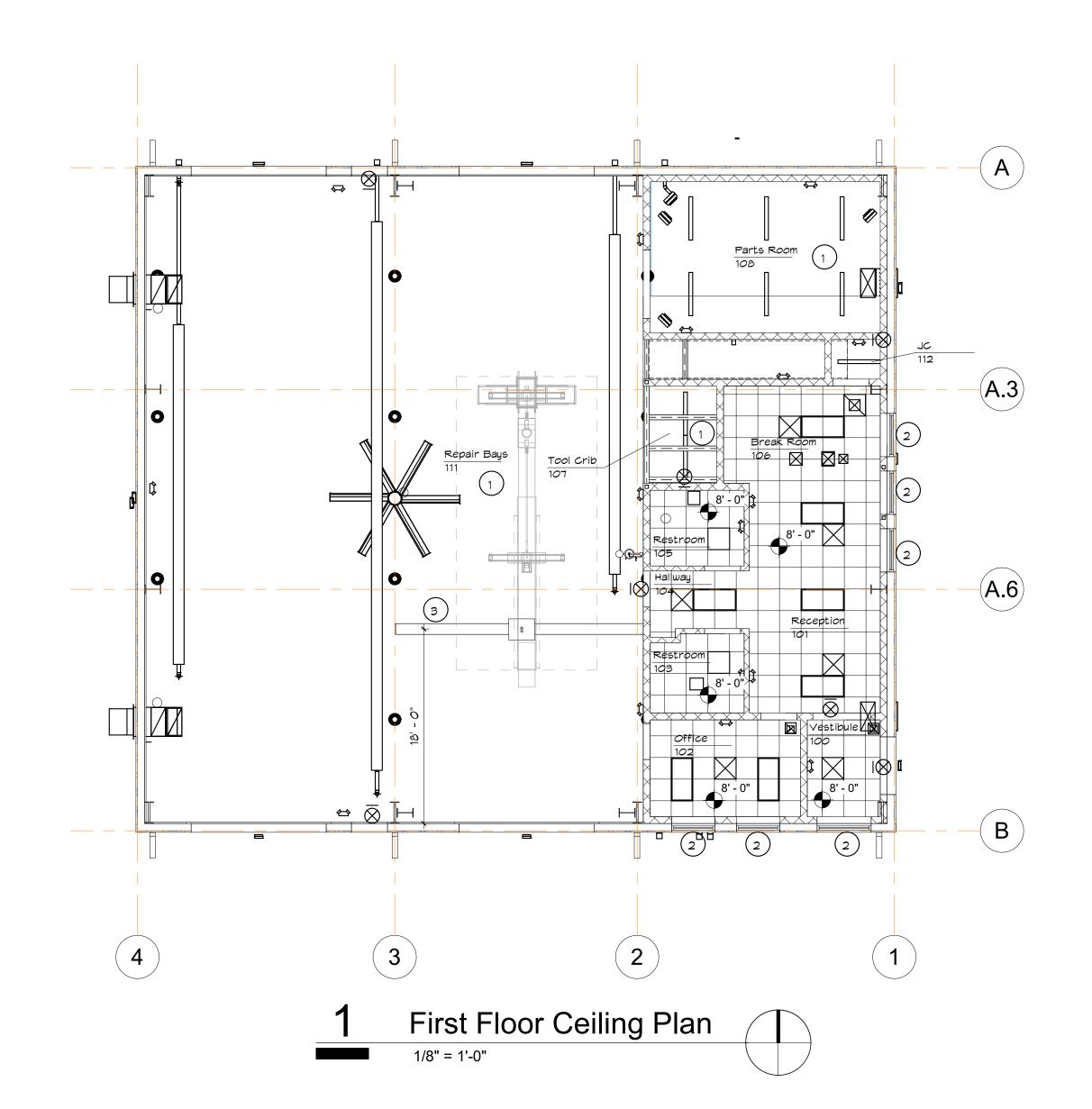
Mezzanine Ceiling Plan

B

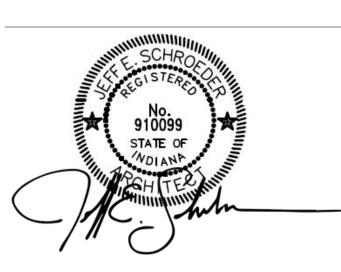
Parts
Mezzanine
201











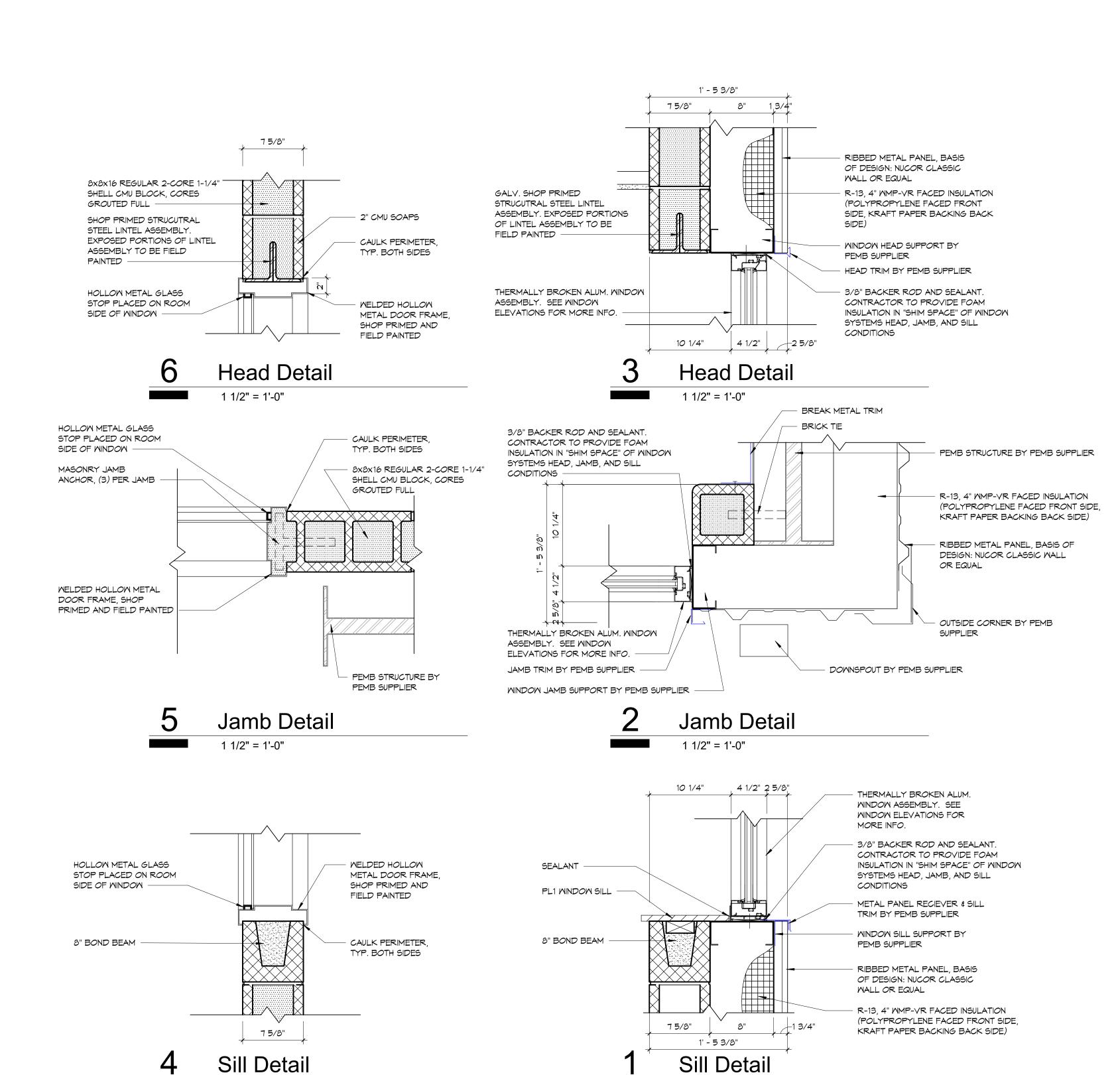
SCHOOL COMMUNITY S





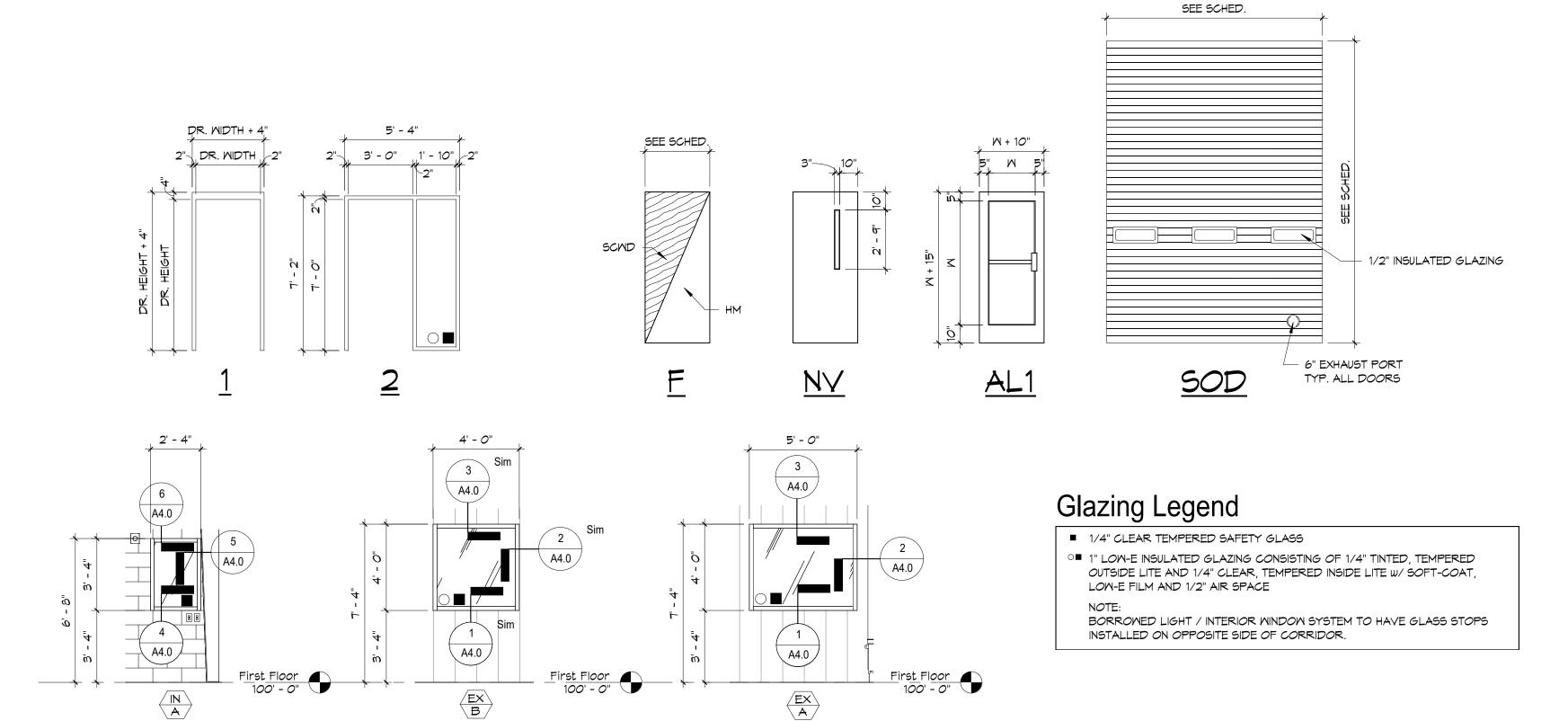
date: March 2, 2022 project: 473003 coordinator: JMO drawn: LNG checked: CDH

A3.1



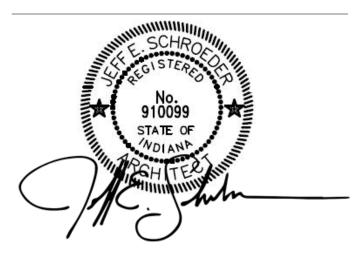
1 1/2" = 1'-0"

1 1/2" = 1'-0"





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CENTERVILLE-ABINGTON COMMUNITY SCHOOLS TRANSPORTATION BUILDING

A PROJECT FOR:

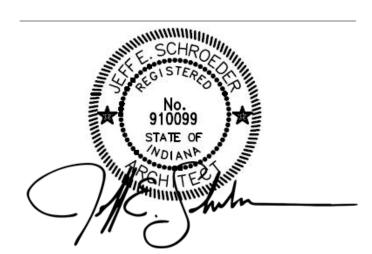


| description |
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and Details

| date: | March 2, 2022 | |
|--------------|---------------|--|
| project: | 473003 | |
| coordinator: | JMO | |
| drawn: | LNG | |
| checked: | CDH | |

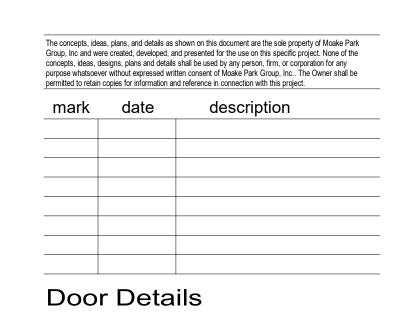




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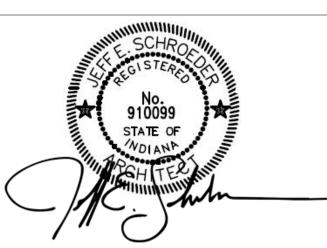






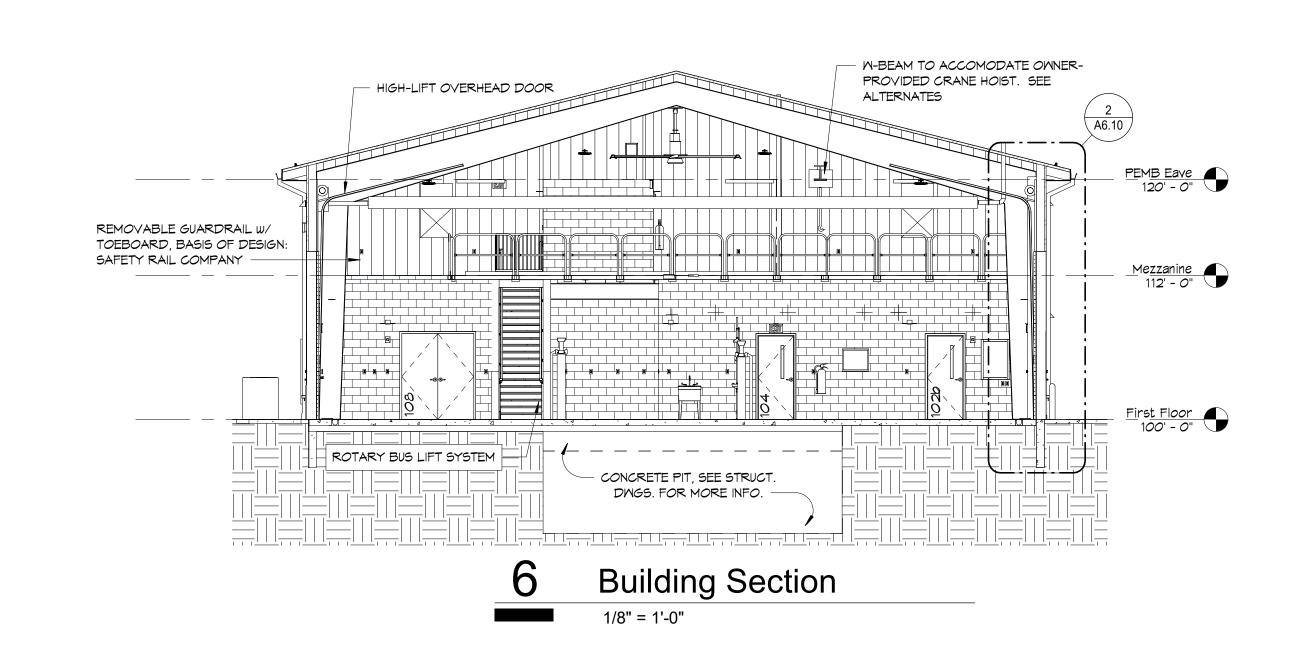
date: March 2, 2022 project: 473003 coordinator: JMO A4.10 drawn: LNG checked: CDH

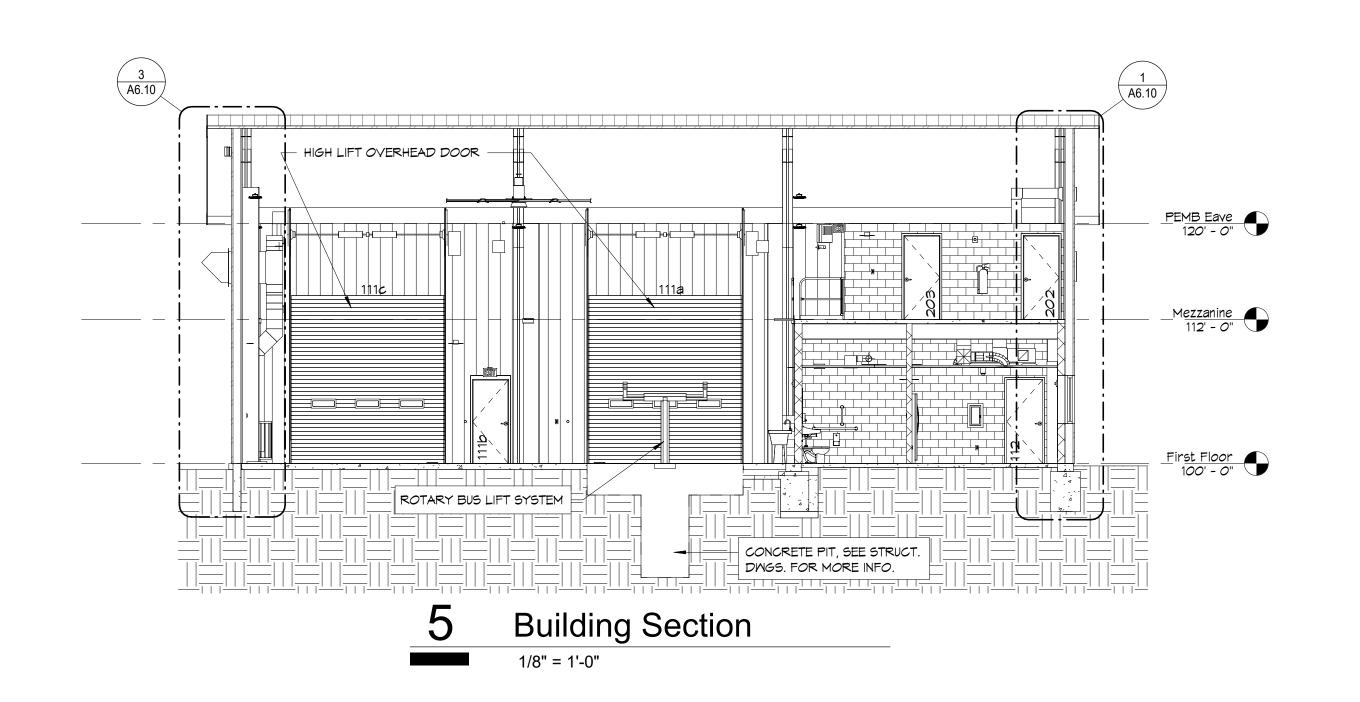


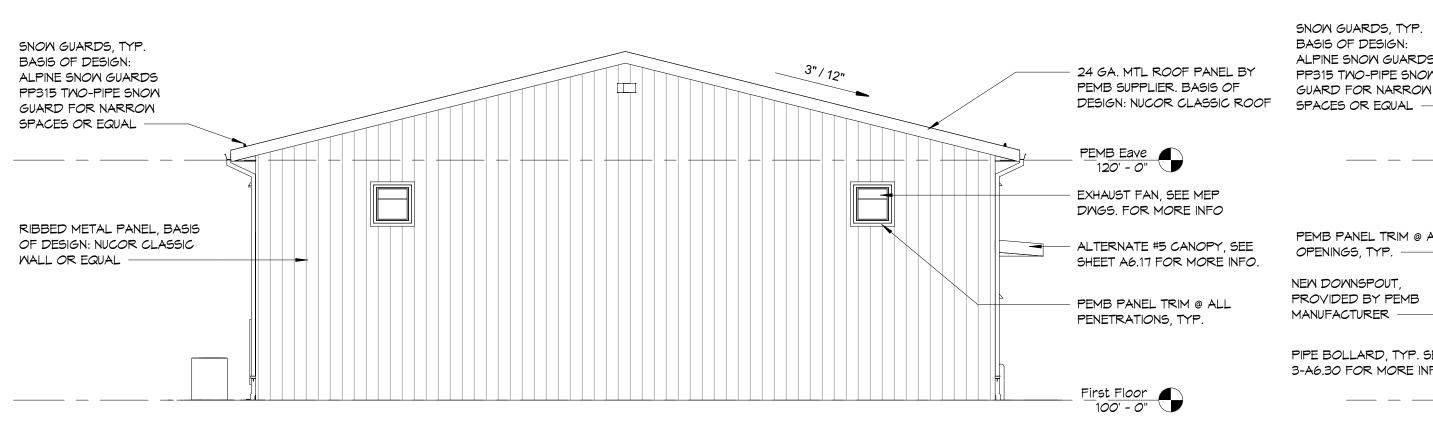


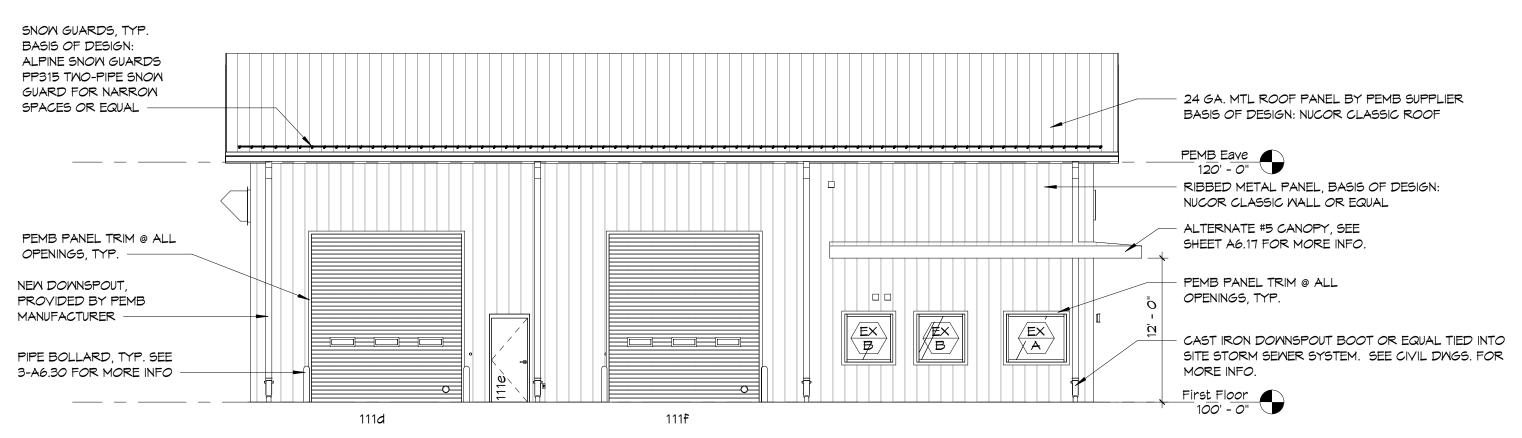
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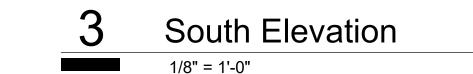


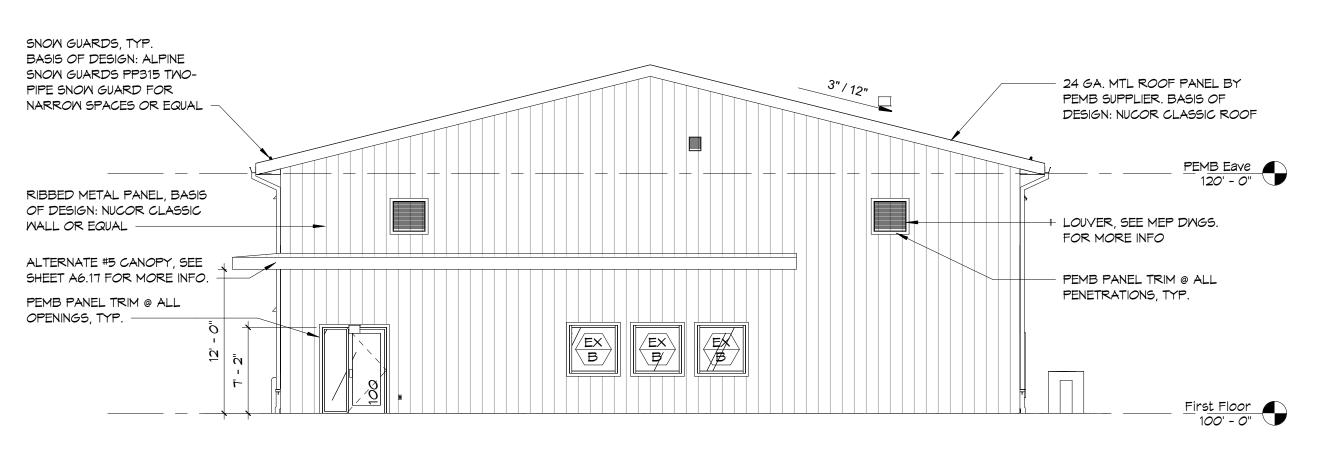


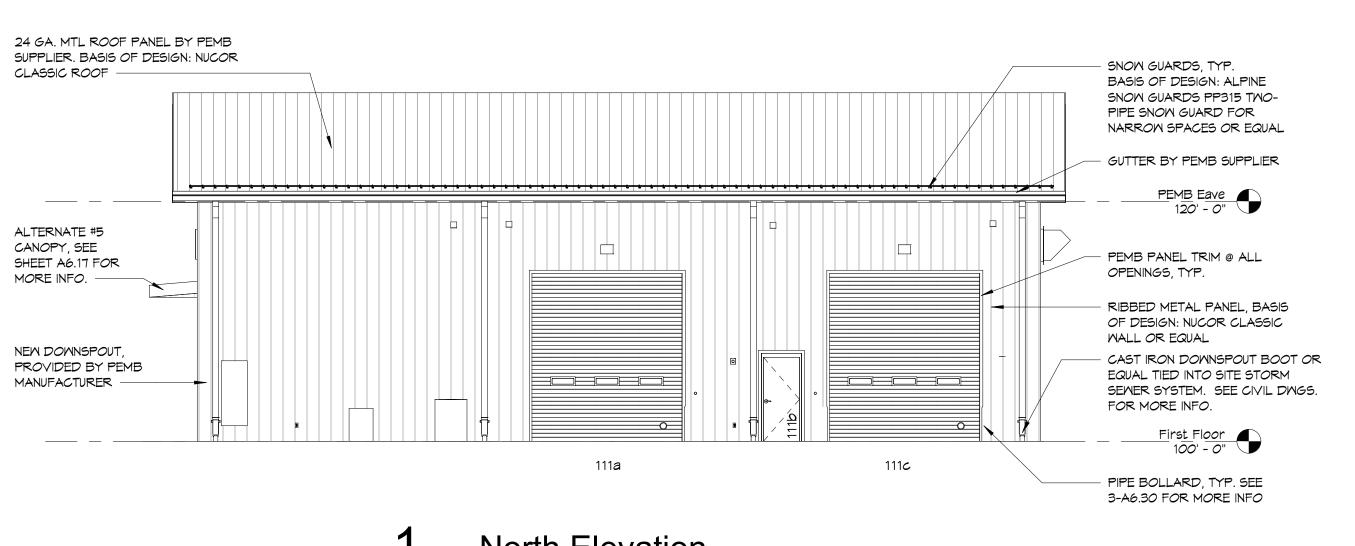






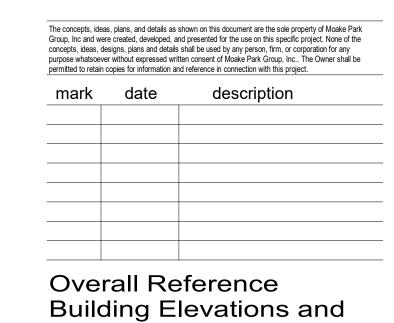






North Elevation East Elevation 1/8" = 1'-0" 1/8" = 1'-0"

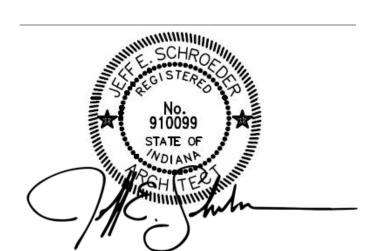




Sections

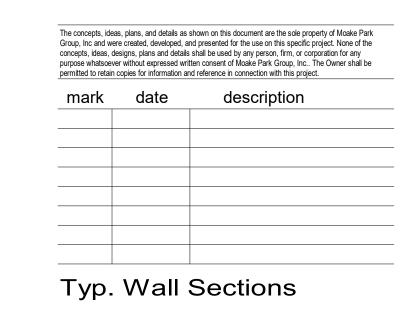
| date: | March 2, 2022 | |
|--------------|---------------|------|
| project: | 473003 | |
| coordinator: | JMO | |
| drawn: | LNG | A5.0 |
| checked: | CDH | |



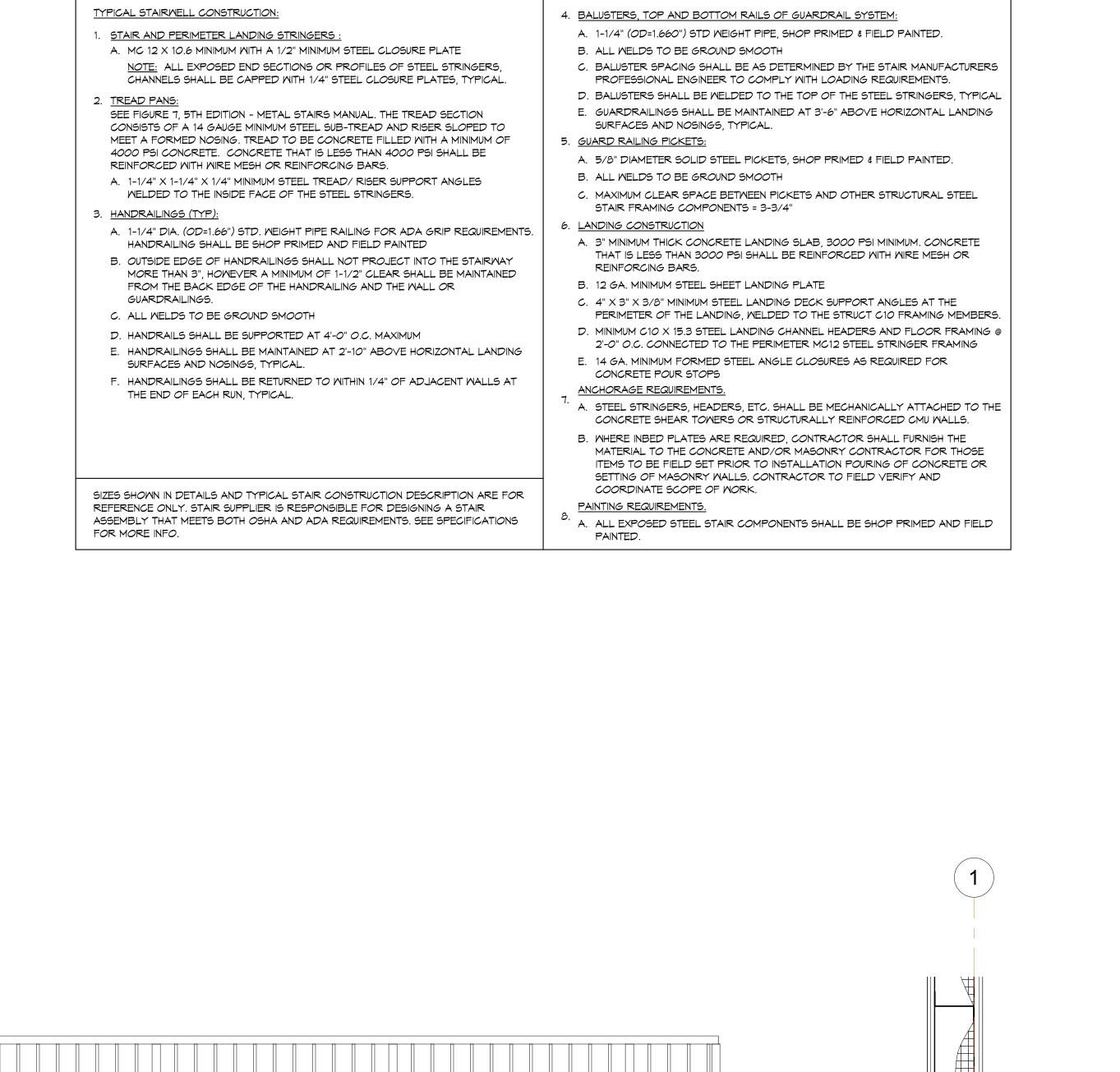


CENTERVILLE-ABINGTON COMMUNITY SCHOOLS TRANSPORTATION BUILDING





date: March 2, 2022
project: 473003
coordinator: JMO
drawn: LNG
checked: CDH



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ENTER

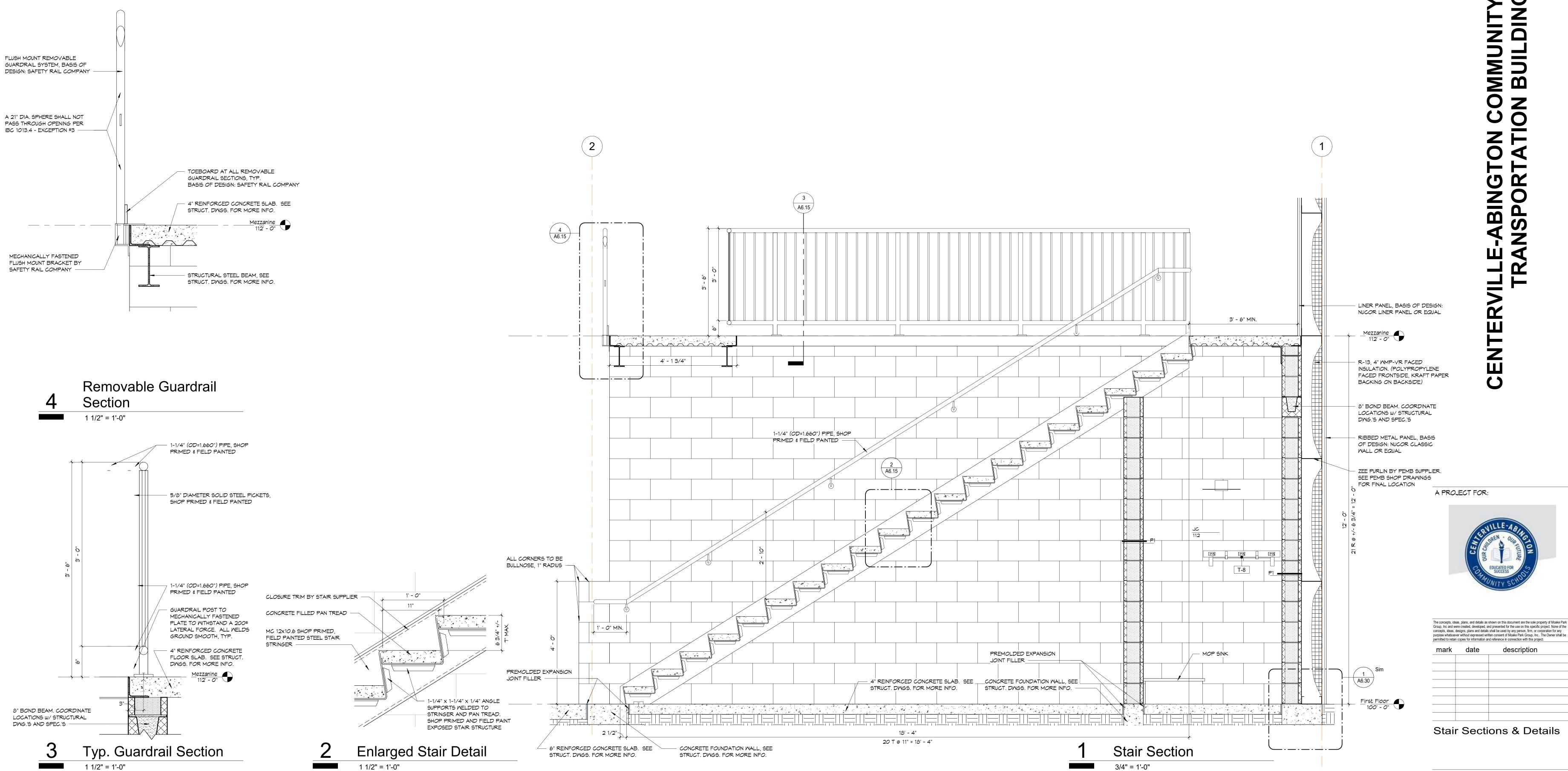
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A6.15

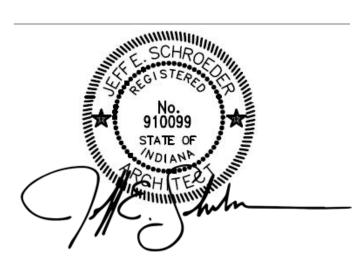
date: March 2, 2022

project: 473003

coordinator: JMO

drawn: LNG checked: CDH 





SCHOOL N CENTERVIL

SNOW GUARDS, TYP.

C-CHANNEL OUTRIGGER BY PEMB SUPPLIER

- GUTTER & FASCIA BY

ALUM. FLUSH SOFFIT BY

PEMB SUPPLIER

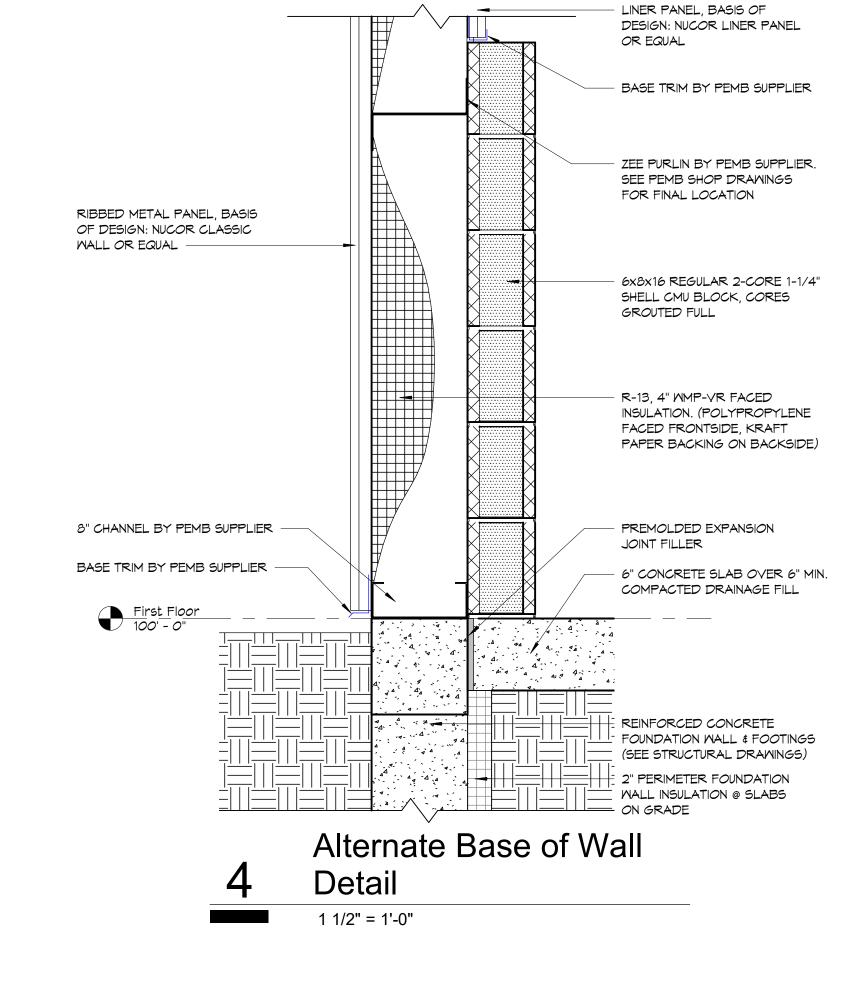
PEMB SUPPLIER

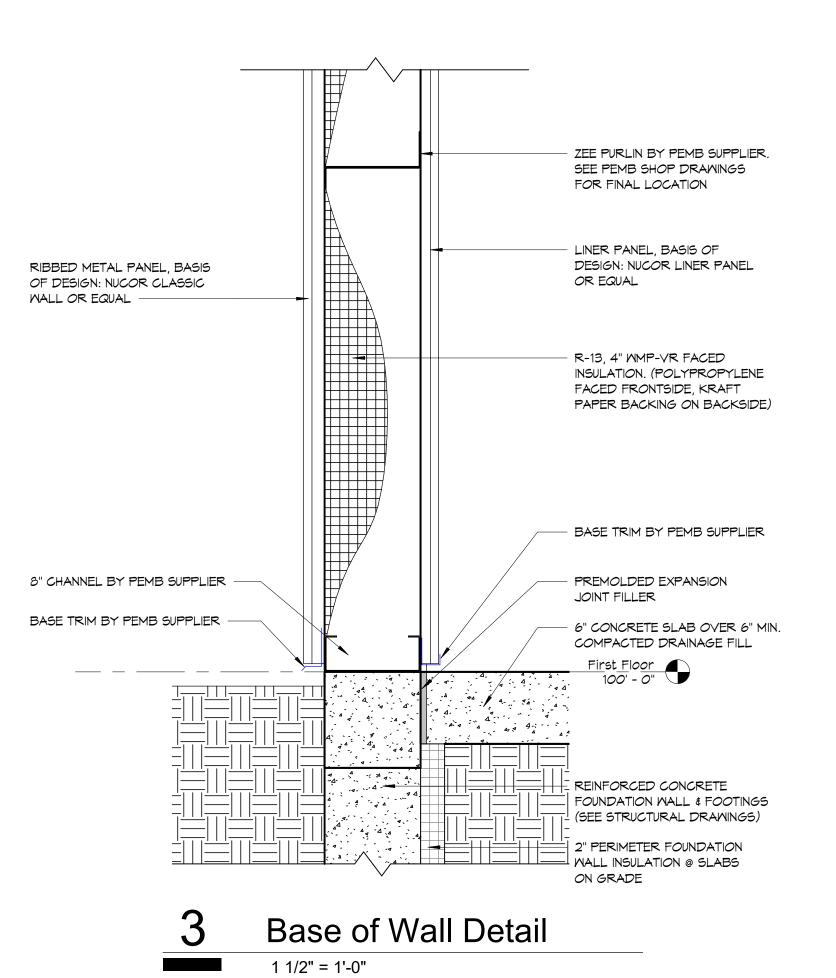
EQUAL

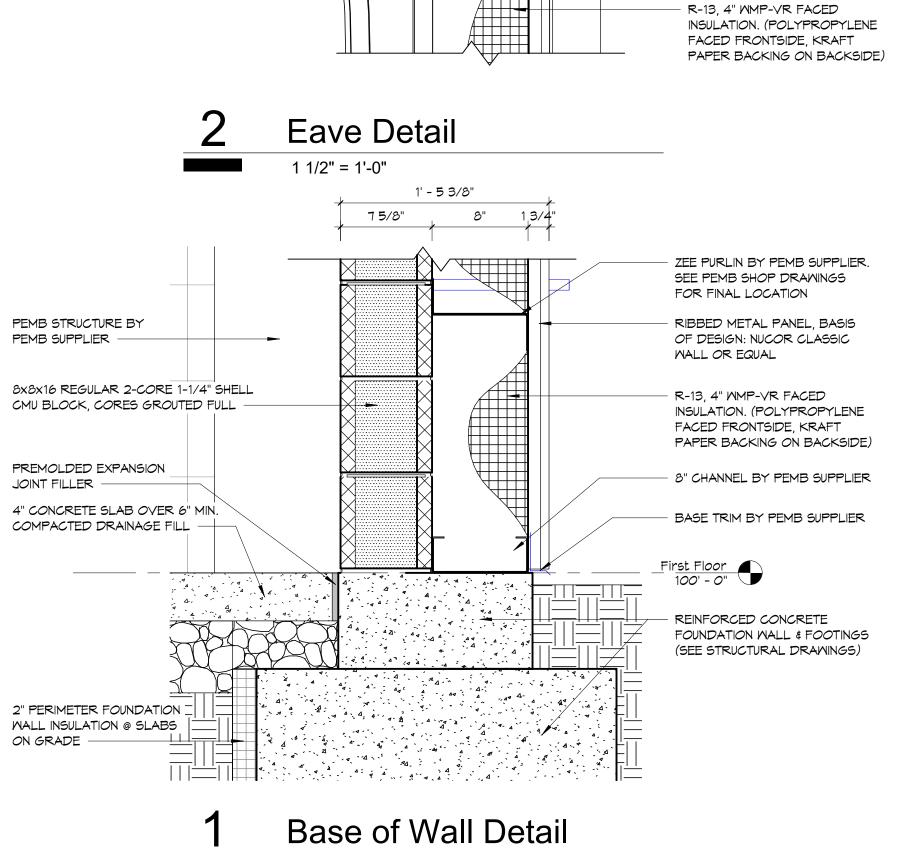
BASIS OF DESIGN: ALPINE SNOW GUARDS PP315 TMO-PIPE SNOW

GUARD FOR NARROW SPACES OR

PEMB Eave 120' - 0"







1 1/2" = 1'-0"

24 GA. MTL ROOF PANEL BY PEMB SUPPLIER BASIS OF DESIGN: NUCOR CLASSIC ROOF

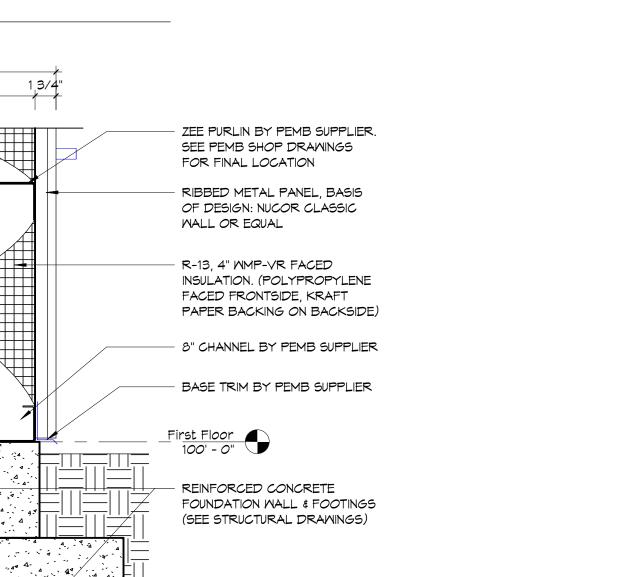
R-24 SCRIM ROOF INSULATION -

EAVE STRUT BY PEMB SUPPLIER

HIGHLIFT OVERHEAD

DOOR. BASIS OF DESIGN:

MODEL 3724 BY CLOPAY

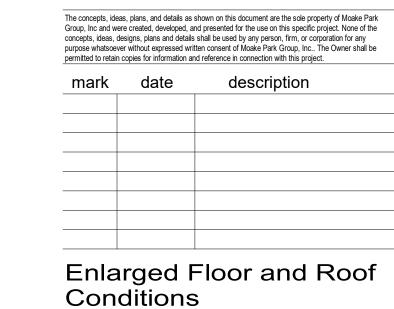


- DOWNSPOUT BY PEMB SUPPLIER

RIBBED METAL PANEL, BASIS OF DESIGN: NUCOR CLASSIC

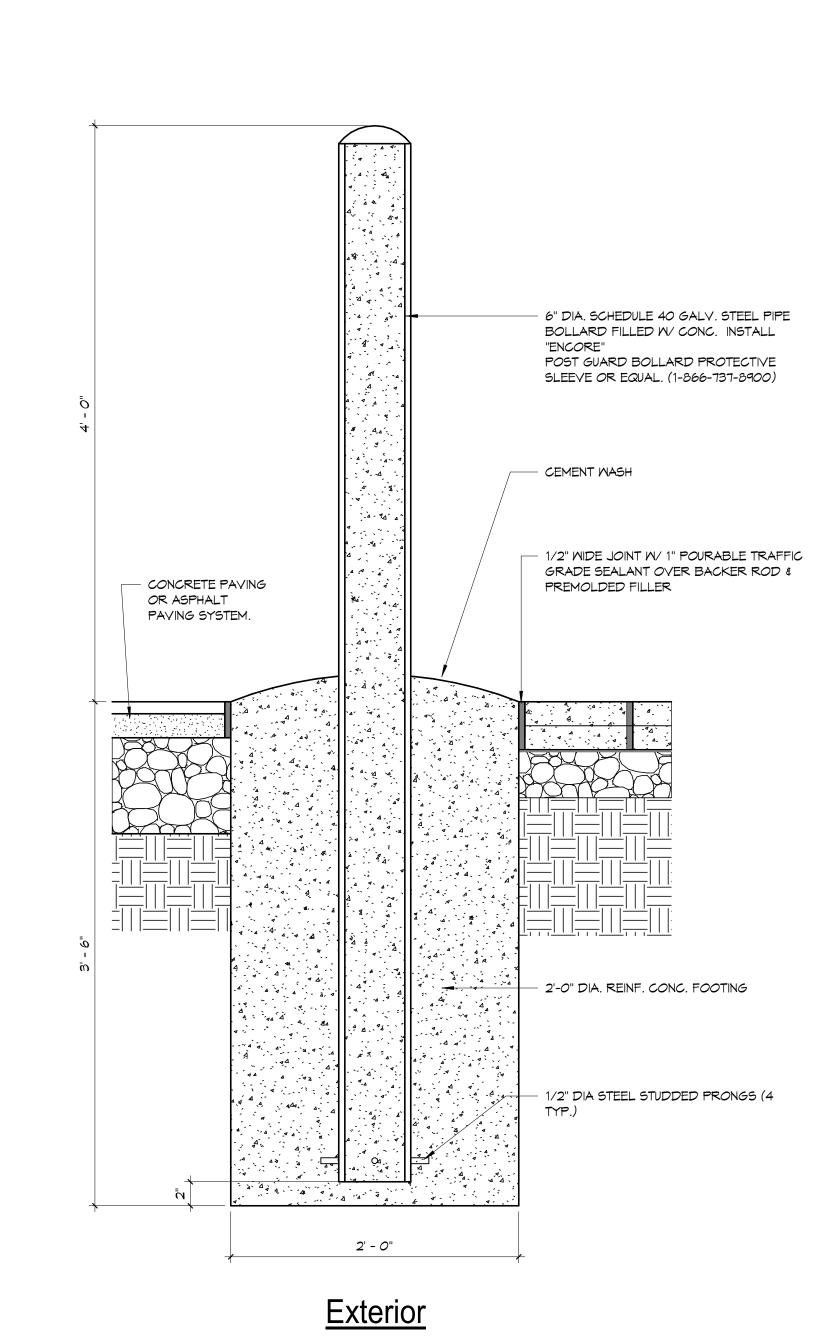
ZEE PURLIN BY PEMB SUPPLIER. SEE PEMB SHOP DRAWINGS FOR FINAL LOCATION

WALL OR EQUAL



A PROJECT FOR:

| date: March 2, 2022 | 2 |
|---------------------|---------|
| project: 473003 | |
| coordinator: JMO | |
| drawn: LNG | _ A6.30 |
| checked: CDH | |

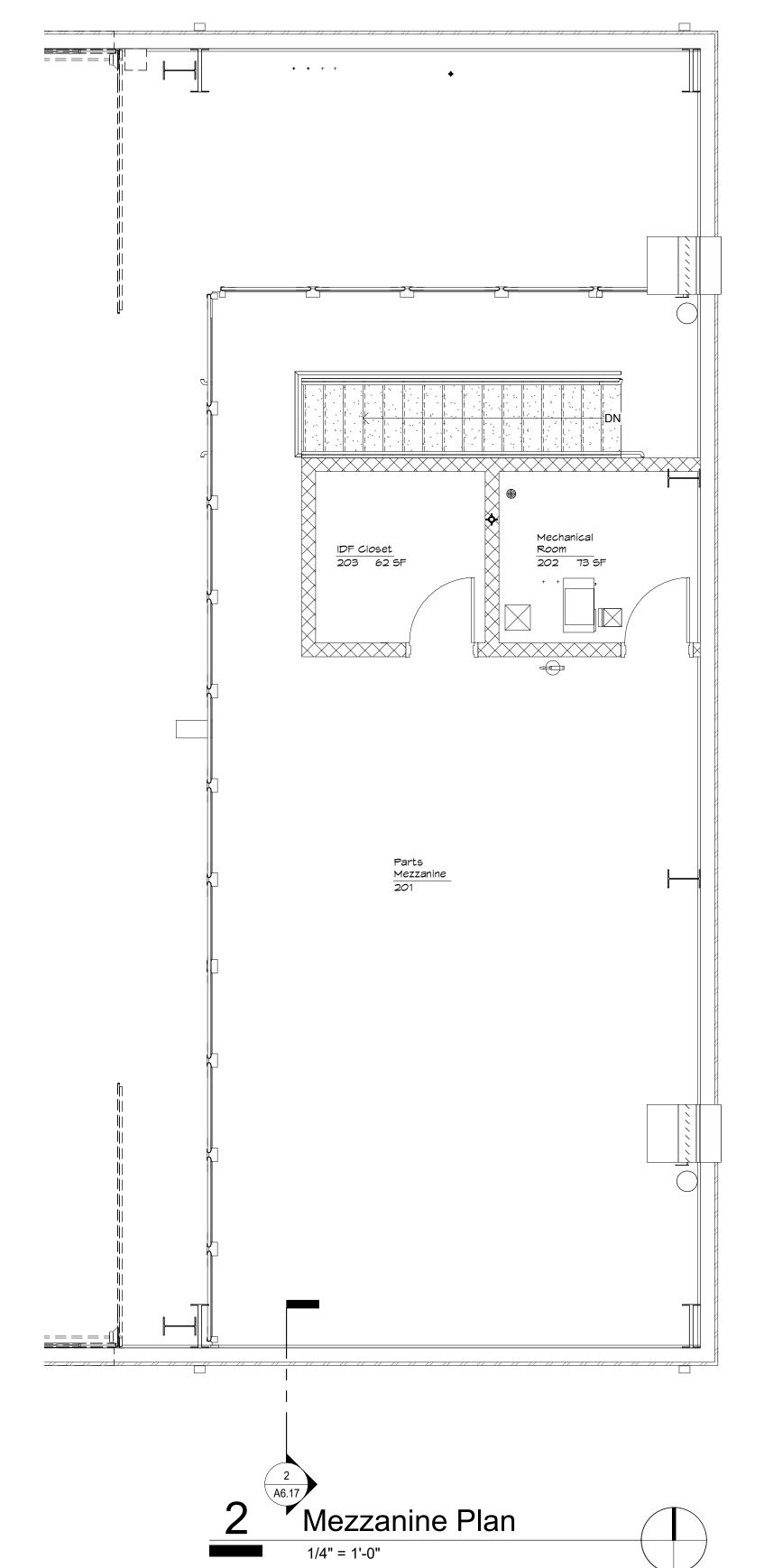


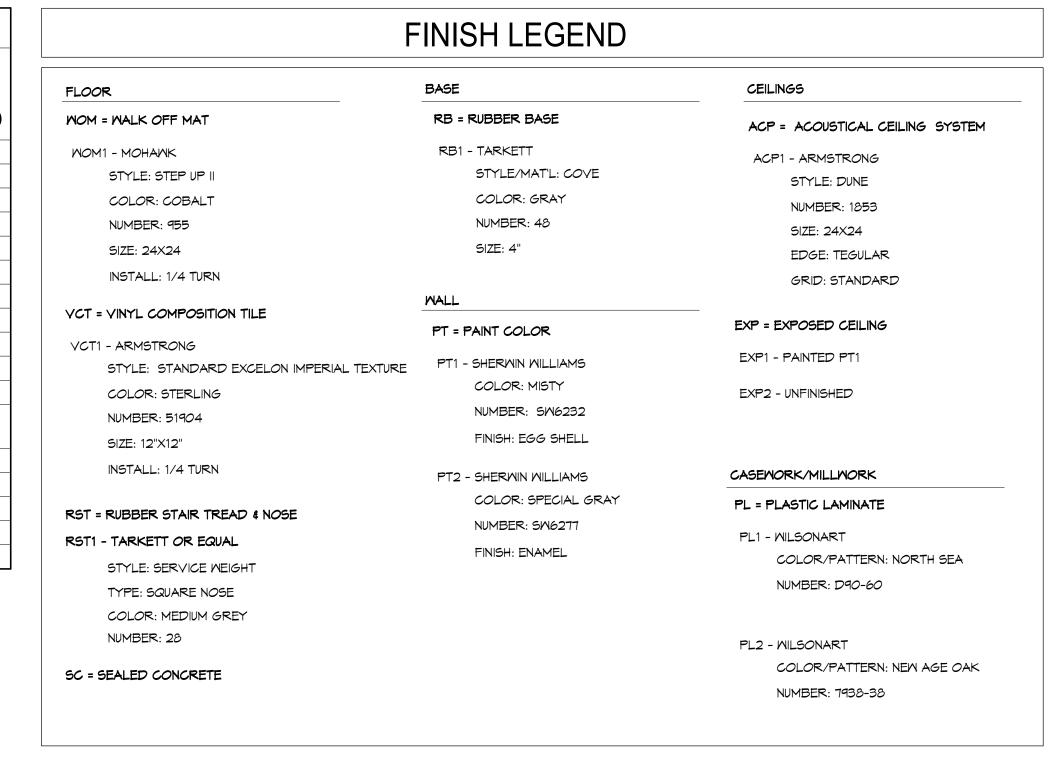
Pipe Bollard Detail

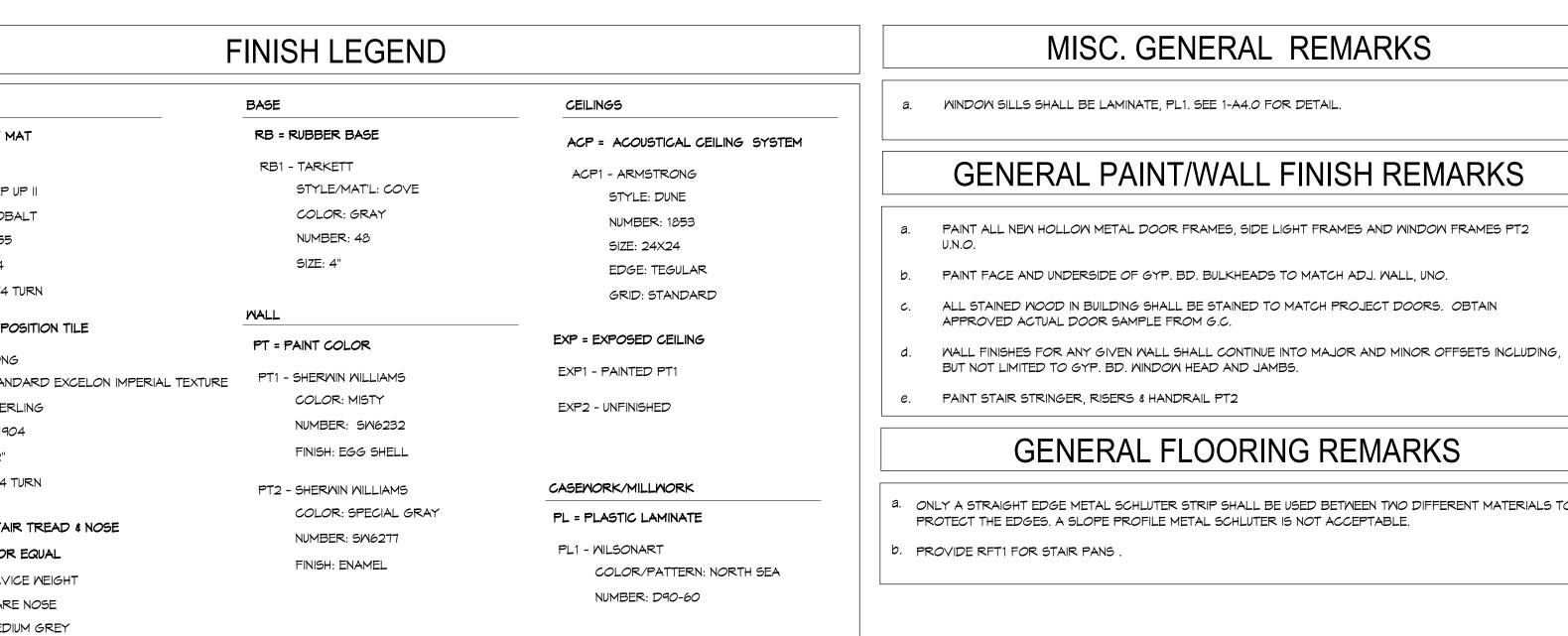
| Room Finish Schedule | | | | | | | | | | | |
|----------------------|----------------------------|--------|-------|-----|----------|----------|-----|------|---------|-----|-----|
| Room Room | Floor | | Walls | | | Ceiling | | | s C'Top | | |
| Number | Name | Finish | | | Comments | Cabinets | | | | | |
| 100 | Vestibule | MOM1 | RB1 | PT1 | PT1 | PT1 | PT1 | APC1 | | | |
| 101 | Reception | VCT1 | RB1 | _ | PT1 | PT1 | PT1 | APC1 | | | |
| 102 | Office | VCT1 | RB1 | PT1 | PT1 | PT1 | PT1 | APC1 | | | |
| 103 | Restroom | VCT1 | RB1 | PT1 | PT1 | PT1 | PT1 | APC1 | | | |
| 104 | Hallway | VCT1 | RB1 | PT1 | PT1 | _ | PT1 | APC1 | | | |
| 105 | Restroom | VCT1 | RB1 | PT1 | PT1 | PT1 | PT1 | APC1 | | | |
| 106 | Break Room | VCT1 | RB1 | PT1 | - | PT1 | PT1 | APC1 | | PL2 | PL1 |
| 107 | Tool Crib | SC | RB1 | PT1 | PT1 | PT1 | - | EXP1 | | | |
| 108 | Parts Room | SC | RB1 | _ | PT1 | PT1 | PT1 | EXP1 | | | |
| 109 | Elec. | SC | RB1 | PT1 | - | PT1 | PT1 | EXP1 | | | |
| 110 | Mater and Fire Suppression | SC | RB1 | PT1 | - | PT1 | PT1 | EXP1 | | | |
| 111 | Repair Bays | SC | RB1 | PT1 | PT1 | PT1 | PT1 | EXP1 | | | |
| 112 | JC | SC | RB1 | PT1 | PT1 | PT1 | PT1 | EXP2 | | | |
| 201 | Parts Mezzanine | SC | RB1 | PT1 | PT1 | PT1 | - | EXP2 | | | |
| 202 | Mechanical Room | SC | RB1 | PT1 | PT1 | PT1 | PT1 | EXP2 | | | |
| 203 | IDF Closet | SC | RB1 | PT1 | PT1 | PT1 | PT1 | EXP2 | | | |

| ADJSUTABLE SHELF, TYPICAL. — | 3' - <i>0</i> " | 3' - 0" | k | |
|--|---|---------|------------------|-----------------------|
| PLASTIC LAMINATE C'TOP AND BACK SPLASH TO | PL2 PL2 | | FE REF. BY OWNER | 8' - 0" ACP HEIGHT |
| | F 3' - 0" | 3' - 0" | 2' - 11" | |

Break Room Elevation

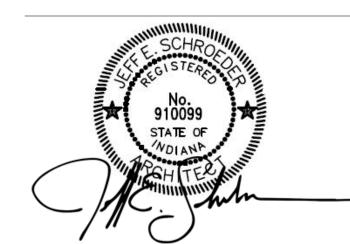




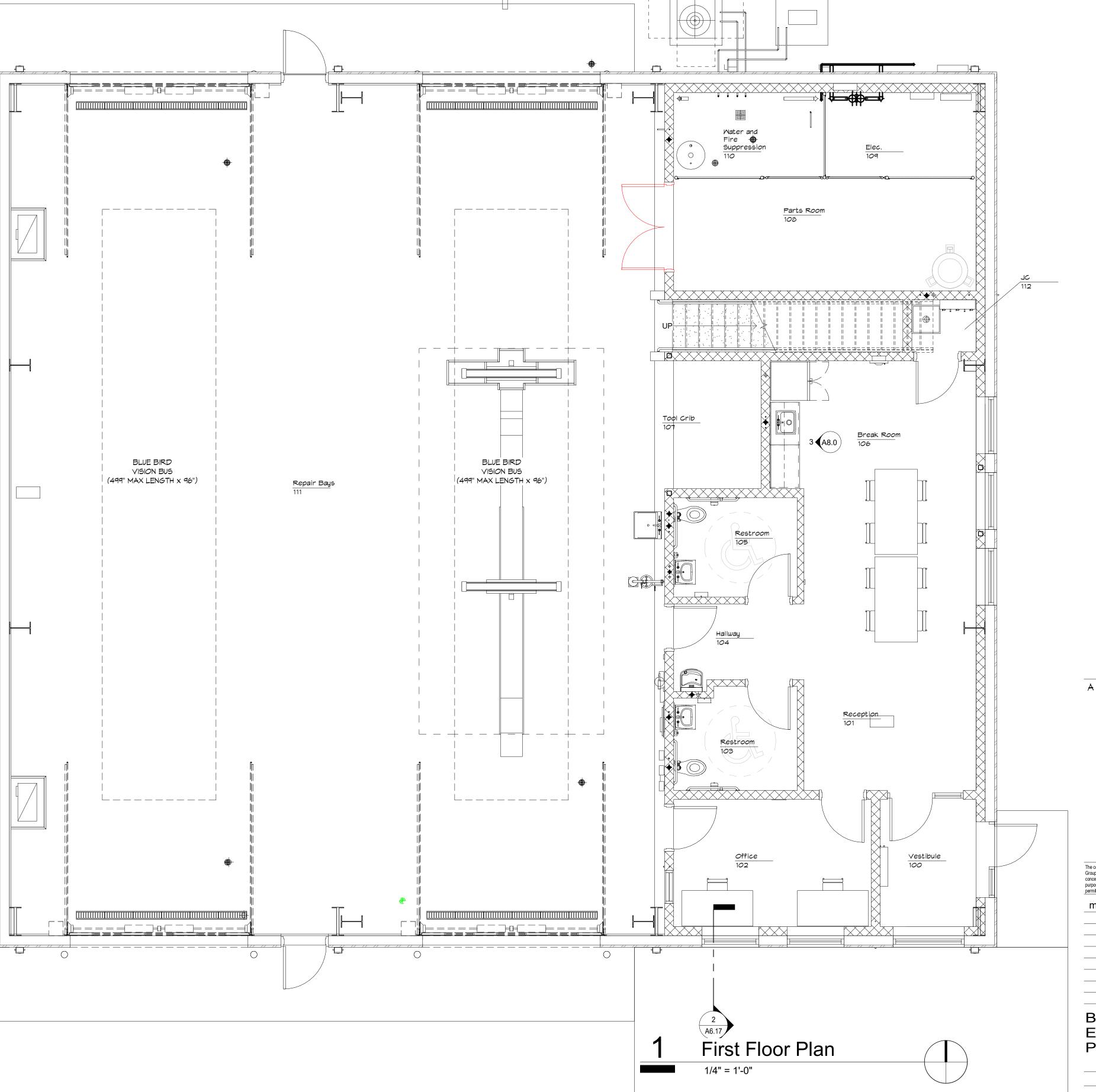






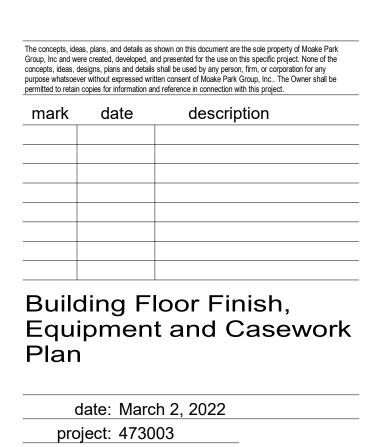


a. ONLY A STRAIGHT EDGE METAL SCHLUTER STRIP SHALL BE USED BETWEEN TWO DIFFERENT MATERIALS TO PROTECT THE EDGES. A SLOPE PROFILE METAL SCHLUTER IS NOT ACCEPTABLE.



SCHOOL N **INOMM** <u>၀</u>





A8.0

coordinator: JMO

checked: CDH

drawn: FCC/JMO

THIS CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE EXACT PIPE ROUTING WITH THE PLUMBING, MECHANICAL, AND ELECTRICAL CONTRACTORS. FIRE PROTECTION CONTRACTOR SHALL PROVIDE AND INSTALL ADDITIONAL DRAINS, FITTINGS, PIPING, AND OFFSETS AS REQUIRED TO ROUTE FIRE SUPPRESSION PIPING AROUND ALL NEW PLUMBING, MECHANICAL, AND ELECTRICAL PIPING AND EQUIPMENT TO BE INSTALLED AS PART OF THIS PROJECT.

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FIRE PROTECTION CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS FOR CEILING CONDITIONS IN ALL SPACES. PROVIDE SPRINKLER HEADS AND SPACING AS REQUIRED BY NFPA 13 AND AUTHORITY HAVING JURISDICTION.

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AT ANY LOCATION WHERE FIRE PROTECTION PIPING PENETRATES AND ROUTES THROUGH A FINISHED WALL, CEILING, FLOOR, ETC., THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE AND INSTALL EITHER AN PIPE ESCUTCHEON OR A FABRICATED ENCLOSURE TO COVER ANY OPENING WITHIN THE FINISHED WALL/CEILING. PROVIDE A MOCK UP OF THE FABRICATED ENCLOSURE FOR THE ARCHITECT AND OWNERS APPROVAL PRIOR TO THE INITIATION OF ANY WORK.

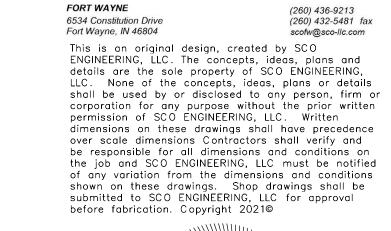
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THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL THROUGH PENETRATION FIRESTOP SYSTEMS AS REQUIRED TO SEAL WHERE PIPING PENETRATES A FIRE RATED WALL, FLOOR, OR OTHER LISTED ASSEMBLY. THE FIRE PROTECTION CONTRACTOR IS TO REVIEW LIFE SAFETY, AND ALL OTHER ARCHITECTURAL, DRAWINGS FOR THE EXACT LOCATION OF FIRE RATED ASSEMBLIES.

FIRE PROTECTION PLAN NOTES

- PROVIDE AND INSTALL A NEW WET PIPE SPRINKLER SYSTEM WITHIN THE CROSSHATCHED AREA FOR PROPER COVERAGE PER NFPA UNLESS NOTED OTHERWISE. ALL SPRINKLER HEADS ARE TO BE INSTALLED WITHIN EITHER THE CENTER OF THE ROOM THEY PROTECT AND/OR THE CENTER OF ALL CORRIDORS. IN ANY LOCATION WHERE SPRINKLERS ARE TO BE INSTALLED WITHIN A SUSPENDED ACOUSTICAL CEILING GRID, THE SPRINKLER HEADS ARE TO BE INSTALLED IN THE CENTER OF THE CEILING TILE. COORDINATE EXACT PIPE ROUTING WITH ALL TRADES. PROVIDE RISERS AND DRAINS AS REQUIRED TO TEST AND MAINTAIN SYSTEMS. REFER TO DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 2 NEW 6" FIRE PROTECTION SERVICE ENTRANCE PIPING ROUTED UP THROUGH SLAB AND INTO SPRINKLER ROOM TO NEW VERTICAL FIRE PROTECTION WET PIPE SPRINKLER RISER WITH DOUBLE CHECK DETECTOR ASSEMBLY WITH OS&Y GATE VALVES AND LOW POINT DRAIN. FIRE PROTECTION CONTRACTOR SHALL SLOPE ALL PIPING TO THIS LOCATION. COORDINATE EXACT LOCATION AND INSTALLATION REQUIREMENTS WITH THE CENTERVILLE FIRE DEPARTMENT AND WATER UTILITY PRIOR TO THE INITIATION OF ANY WORK. REFER TO UNDERGROUND PLUMBING PLAN FOR CONTINUATION. COORDINATE LOCATION WITH OTHER TRADES AND AUTHORITIES HAVING JURISDICTION.
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- FIRE DEPARTMENT CONNECTION FOR BUILDING COMBINATION WET/DRY SPRINKLER SYSTEM. PROVIDE AND INSTALL A 6" NPT x 5" STORZ FIRE DEPT. CONNECTION WITH 30° ANGLE PATTERN ADAPTER WITH CAP AND CHAIN. PROVIDE AND INSTALL IDENTIFICATION PLATE THAT READS "AUTO SPKR". COORDINATE EXACT MOUNTING LOCATION WITH THE CENTERVILLE FIRE DEPARTMENT PRIOR TO THE INITIATION OF ANY WORK.
- 2" MAIN AND AUXILIARY FIRE DEPARTMENT DRAIN THROUGH WALL WITH 30° DOWN TURN SHOWN HERE FOR CLARITY. IT IS THE INTENT OF THE DRAWINGS THAT THE DRAIN LINE BE ROUTED AS TIGHT TO THE WALL AS POSSIBLE.
 PROVIDE AND INSTALL ALL THROUGH PENETRATION FIRESTOP SYSTEMS AS REQUIRED TO SEAL WHERE PIPING PENETRATES A FIRE RATED
- WALL, FLOOR, OR OTHER LISTED ASSEMBLY. THE FIRE PROTECTION CONTRACTOR IS TO REVIEW LIFE SAFETY, AND ALL OTHER ARCHITECTURAL, DRAWINGS FOR THE EXACT LOCATION OF FIRE RATED ASSEMBLIES.

 6 PROPOSED LOCATION FOR FIRE DEPARTMENT WALL MOUNT INDICATOR VALVE, SHOWN HERE FOR REFERENCE ONLY. COORDINATE EXACT INSTALLATION LOCATION WITH ARCHITECT, OWNER, SITE CONTRACTOR, AND THE CENTERVILLE FIRE DEPARTMENT PRIOR TO THE INITIATION OF ANY WORK. COORDINATE WORK WITH THE ELECTRICAL CONTRACTOR.
- (7) REFER TO SECOND FLOOR FIRE PROTECTION PLAN FOR FIRE PROTECTION AND SPRINKLER PIPING REQUIREMENTS WITHIN THIS AREA.



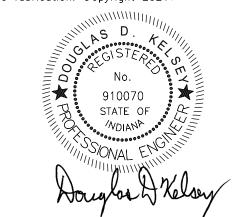
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E-ABINGTON COMMUNITY SCHOOLS ANSPORTATION BUILDING



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Plan

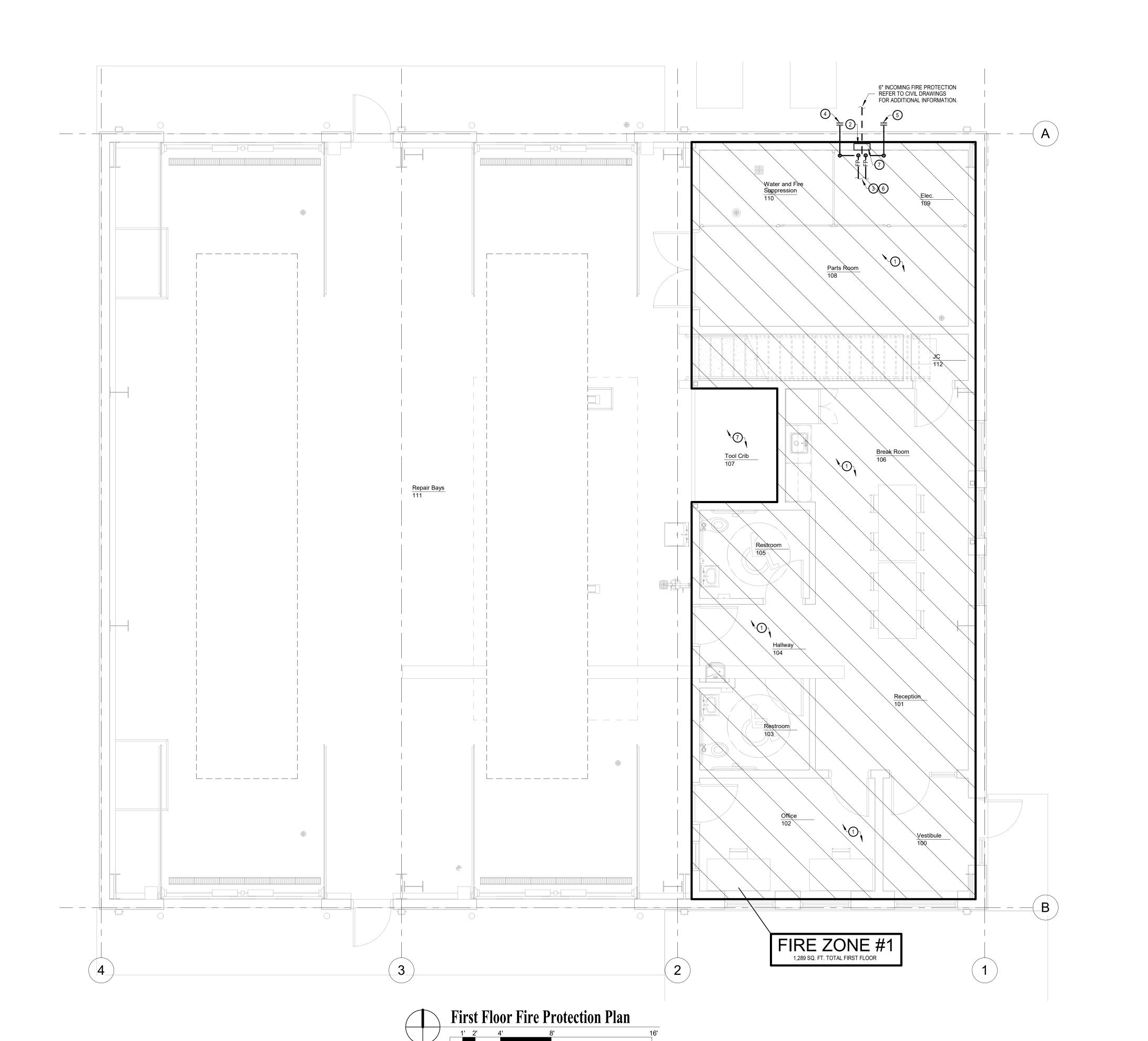
date: March 2, 2022

project: 473003 (212600)

coordinator: SJB

drawn: TEH

checked: DDK



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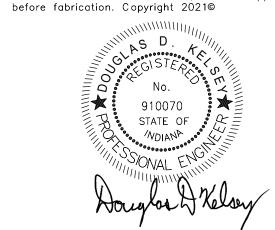
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FORT WAYNE (260) 436-9213

6534 Constitution Drive (260) 432-5481 fax scoftw@sco-llc.com

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ENTERVILLE-ABINGTON COMMUNITY SCHOOLS TRANSPORTATION BUILDING

A PROJECT FOR:



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Protection Plan

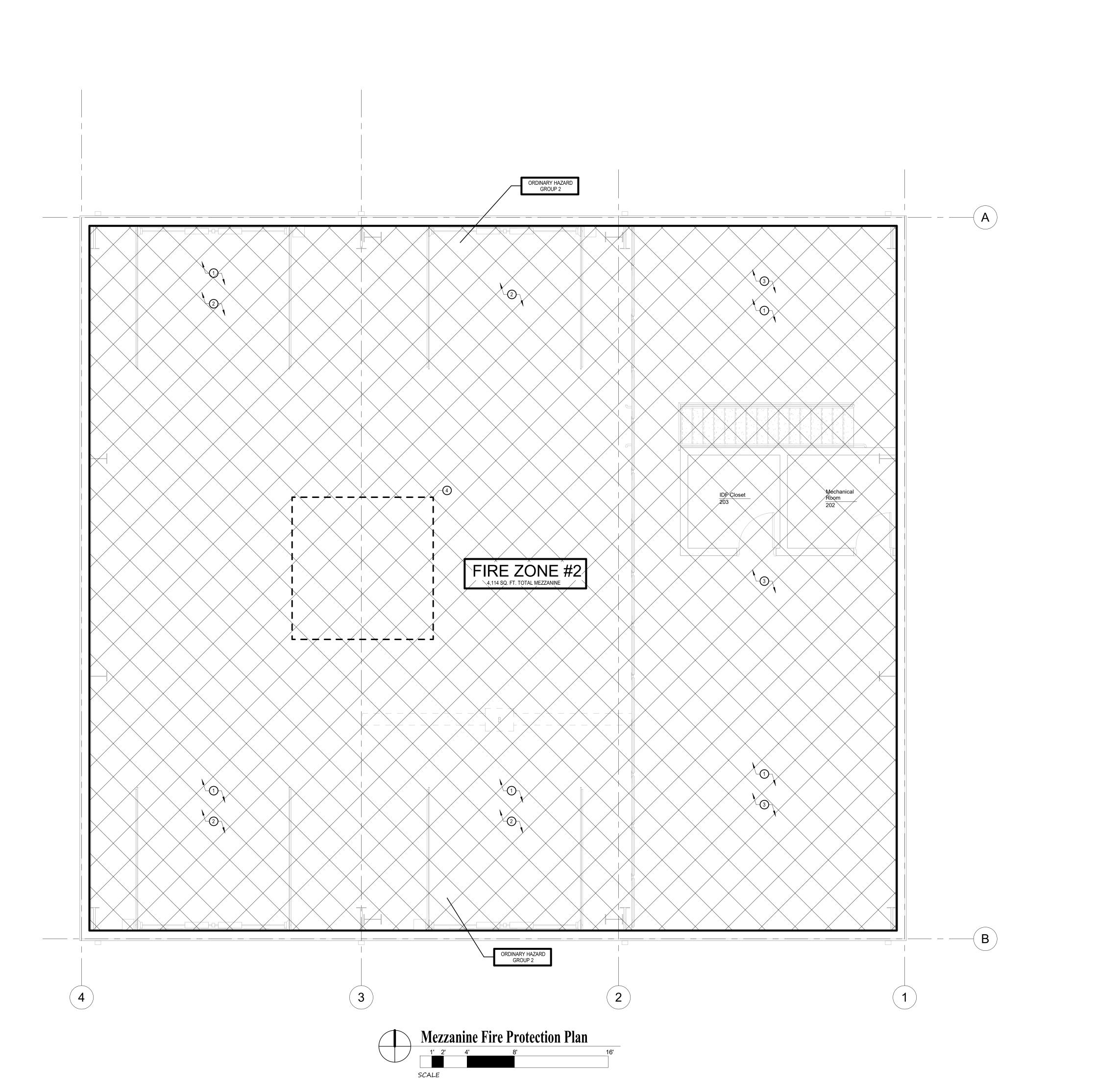
date: March 2, 2022

project: 473003 (212600)

coordinator: SJB

drawn: TEH

checked: DDK



FIRE DEPARTMENT CONNECTION ->▼-
TAMPER/FLOW SWITCH G DROP

→ WALL CLEANOUT/ END FERRULE CLEANOUT

TIE-IN

THERMOMETER

P SHOCK ABSORBER

CLEAN OUT

O FLOOR DRAIN

FLOOR SINK

O ROOF DRAIN

◆ SHOWER HEAD

→ WALL HYDRANT/ HOSE BIBB

REDUCED PRESSURE PRINCIPLE

BACKFLOW PREVENTER

WATER HAMMER ARRESTOR TAG

(SHOCK ABSORBER)

—FP — FIRE PROTECTION PIPING

RISE

→ DIRECTION OF FLOW →**C**→ CHECK VALVE INDICATES ZONE BOUNDARY LINE

—)(— POST INDICATOR VALVE -▶<- CONTROL VALVE

| | PLUMBING S | YMBOL SCH | EDULE |
|-------------|---------------------------|-------------|------------------------------|
| ð | BALL VALVE | | — SANITARY DRAIN ABOVE FLOOR |
| ı[j | BUTTERFLY VALVE | — — SAN — — | - SANITARY DRAIN BELOW FLOOR |
| × | PRESSURE REDUCING STATION | ST | - STORM DRAIN ABOVE FLOOR |
| A | PRESSURE REDUCING VALVE | — — ST — — | - STORM DRAIN BELOW FLOOR |
| ⋈ | GATE VALVE | G | — GAS |
| ⊅ | GLOBE VALVE | | - VENT |
| 刄 | TEMPERATURE MIXING VALVE | | - COLD WATER |
| I∳I | GAS COCK | RAW | - DOMESTIC WATER (RAW) |
| + | GAS TURRET | | - HOT WATER |
| \neg | COMPRESSED AIR TURRET | | - HOT WATER RECIRC |
| 17 | CHECK VALVE | BT- | BRINE TANK |
| O | IN LINE PUMP | CO- | CLEANOUT |
| ∀ | STRAINER | DF- | DRINKING FOUNTAIN |
| :: | AUTOMATIC FLOW VALVE | EDS- | EMERGENCY DRENCH SHOWER |
| Ö | MANUAL FLOW CONTROL VALVE | | |
| ψ | UNION | EEW- | EMERGENCY EYE WASH |
| M | ACTUATOR | ET- | EXPANSION TANK |
| M | METER | EWC- | ELECTRIC WATER COOLER |
| - | PIPING DROP | EWH- | ELECTRIC WATER HEATER |
| | INLINE PIPING DROP | FD- | FLOOR DRAIN |
| - | PIPING RISE | GD- | GARBAGE DISPOSER |
| -3 | PIPE CAP | GWH- | GAS WATER HEATER |
| → | PIPE BREAK | ш | |

HB- HOSE BIBB

L- LAVATORY

MB- MOP BASIN

RD- ROOF DRAIN

S- SINK

SH- SHOWER

U- URINAL

WB- WALL BOX

WC- WATER CLOSET

WH- WALL HYDRANT

YH- YARD HYDRANT

ACCESSIBLE A.F.F. ABOVE FINISHED FLOOR

"H" SUFFIX INDICATES HANDICAP

SP- SUMP PUMP

STT- STORAGE TANK

TD- TRENCH DRAIN

VTR- VENT THROUGH ROOF

TMV- TEMPERATURE MIXING VALVE

RPBP- REDUCED PRESSURE PRINCIPLE

BACKFLOW PREVENTER

GENERAL FIRE PROTECTION NOTES

ALL WORK SHALL CONFORM TO NFPA 13, STATE AND LOCAL PLUMBING AND BACKFLOW PREVENTION CODES, AND THE REQUIREMENTS OF THE LOCAL WATER UTILITY. A CROSS-CONNECTION CONTROL DEVICES INSPECTOR SHALL TEST ALL BACKFLOW DEVICES AT THE TIME OF INSTALLATION AND SUBMIT REPORTS TO THE LOCAL WATER UTILITY AS REQUIRED. ALL MATERIALS INSTALLED WITHIN PLENUM SHALL HAVE FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING NOT EXCEEDING 50 IN ACCORDANCE WITH STATE CODES. THIS CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, AND LABOR FOR CORE DRILLING AS REQUIRED FOR INSTALLATION OF PIPING PENETRATING BUILDING CONSTRUCTION. REFERENCE ARCHITECTURAL PLANS FOR ALL DIMENSIONS, TYPICAL.

ZONE AREA LISTED ARE FOR INFORMATION PURPOSES. CONTRACTOR IS TO CONFIRM AREAS AND ZONING TO MEET DESIGN REQUIREMENTS.

COORDINATE INSTALLATION WITH OTHER TRADES IN AVAILABLE CEILING SPACE. PROVIDE OFFSETS IN PIPING AS REQUIRED AROUND STRUCTURE, DUCTWORK, ETC. ROUTE PIPING ALONG WITH PLUMBING AND HYDRONIC PIPING MAINS. ALL DRAIN CONNECTIONS TO SEWER PIPING ARE TO BE INDIRECT CONNECTIONS WITH AIR GAP. ALL NEW FIRE PROTECTION PIPING 3" AND LARGER MUST BE DISINFECTED PER ANSI/ AWWA C651-92. SAMPLES FROM 2 CONSECUTIVE DAYS MUST BE TAKEN TO AN APPROVED TEST LAB. LAB ANALYSIS REPORTS SHALL BE SUBMITTED TO

THE LOCAL WATER UTILITY AS REQUIRED FOR COMPLIANCE. FIRE RISERS ARE SHOWN AS POSSIBLE ROUTING LOCATIONS. CONTRACTOR IS TO CONFIRM NUMBER AND LOCATION OF RISERS TO MEET COVERAGE REQUIREMENTS.

GENERAL PLUMBING NOTES

ALL WORK SHALL CONFORM TO STATE AND LOCAL PLUMBING AND BACKFLOW PREVENTION CODES, AND THE REQUIREMENTS OF THE LOCAL WATER UTILITY. EQUIPMENT, DOMESTIC WATER PIPING, SANITARY WASTE, SANITARY VENT, AND STORM PIPING LAYOUTS ARE SCHEMATIC IN NATURE. CONTRACTOR MUST ADJUST TO FIELD CONDITIONS AND COORDINATE WITH OTHER TRADES DURING CONSTRUCTION BY ADDING OFFSETS AND ELBOWS WHERE REQUIRED.

VACUUM BREAKERS MUST BE INSTALLED ON ALL EXISTING OR PROPOSED HOSE THREAD FITTINGS, INCLUDING BUT NOT LIMITED TO HOSE BIBBS, WALL/ YARD HYDRANTS, MOP/ SERVICE SINKS. A CROSS-CONNECTION CONTROL DEVICE INSPECTOR SHALL TEST ALL BACKFLOW DEVICES AT THE TIME OF

ALL WATER LINES 3" AND LARGER MUST BE DISINFECTED PER ANSI/ AWWA C651-92. SAMPLES FROM 2 CONSECUTIVE DAYS MUST BE TAKEN TO AN APPROVED TEST LAB. LAB ANALYSES REPORTS SHALL BE SUBMITTED TO THE LOCAL WATER UTILITY AS REQUIRED FOR COMPLIANCE.

COORDINATE EXACT LOCATION OF ROOF DRAINS WITH ARCHITECTURAL AND STRUCTURAL PLANS. ALL MATERIALS INSTALLED WITHIN PLENUM SHALL HAVE FLAME SPREAD RATING OF NOT MORE THEN 25 AND A SMOKE DEVELOPED RATING NOT EXCEEDING 50 IN ACCORDANCE WITH STATE CODES.

INSTALLATION AND SUBMIT REPORTS TO THE LOCAL WATER UTILITY AS REQUIRED.

COUPLINGS, TEES, OR ELBOWS SHALL BE USED BELOW OR WITHIN SLAB.

THIS CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, AND LABOR FOR CORE DRILLING AS REQUIRED FOR INSTALLATION OF PIPING PENETRATING BUILDING CONSTRUCTION. TYPE "K" COPPER TUBING SHALL BE USED FOR ALL DOMESTIC SUPPLY PLUMBING BELOW SLAB. NO FITTINGS SUCH AS

ALL EQUIPMENT USING NATURAL GAS SHALL HAVE A GAS COCK AND DIRT LEG FOR EACH PIECE OF EQUIPMENT. REFERENCE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, TYPICAL.

ALL EQUIPMENT AND MATERIALS SHALL BE UL LISTED AND LABELED FOR TYPE OF EQUIPMENT AND MATERIALS FOR WHICH LISTING AND LABELING IS AVAILABLE.

GENERAL CONDITIONS NOTE

ALL CONTRACTORS, BY MAKING THEIR BID, REPRESENT THAT THEY HAVE READ AND UNDERSTAND THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL REFER TO THE ENTIRE CONSTRUCTION DOCUMENT SET FOR GUIDANCE ON DIMENSIONS, HEIGHTS, DETAILING, ETC. AND INSTALL THEIR WORK SO AS NOT TO INTERFERE WITH THE INSTALLATION OF ANOTHER DISCIPLINE'S WORK OR THE GENERAL INTENT OF THE CONSTRUCTION DOCUMENTS. IN THE EVENT OF A CONFLICT BETWEEN THE SPECIFICATIONS AND/ OR DRAWINGS, THE ARCHITECT SHALL DETERMINE WHICH INFORMATION GOVERNS.

M/P/E TRADES **NOTE**: IN REFERRING TO THIS SHEET YOU ACKNOWLEDGE: 1.) REVIEWING THE ENTIRE DRAWING SET INCLUDING ALL 'S', 'C' & 'A' SERIES. 2.) COORDINATING WITH THE GENERAL TRADES CONTRACTOR OR C.M. FOR EXACT DETAILING, HEIGHTS, ETC. PRIOR TO

THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL THROUGH PENETRATION FIRESTOP SYSTEMS AS REQUIRED TO SEAL WHERE PIPING PENETRATES A FIRE RATED WALL, FLOOR, OR OTHER LISTED ASSEMBLY. THE FIRE PROTECTION CONTRACTOR IS TO REVIEW LIFE SAFETY, AND ALL OTHER ARCHITECTURAL, DRAWINGS FOR THE EXACT LOCATION OF FIRE RATED ASSEMBLIES.

THIS CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE EXACT PIPE ROUTING WITH THE PLUMBING, MECHANICAL, AND ELECTRICAL CONTRACTORS. FIRE PROTECTION CONTRACTOR SHALL PROVIDE AND INSTALL ADDITIONAL DRAINS, FITTINGS. PIPING, AND OFFSETS AS REQUIRED TO ROUTE FIRE SUPPRESSION PIPING AROUND ALL NEW PLUMBING, MECHANICAL, AND ELECTRICAL PIPING AND EQUIPMENT TO BE INSTALLED AS PART OF THIS PROJECT.

COORDINATE ROUTING OF ALL PIPING WITH ELECTRICAL PANEL LOCATIONS. DO NOT ROUTE PIPING OVER ELECTRICAL PANELS AND PROVIDE ALL WORKING CLEARANCES PER THE NATIONAL ELECTRICAL CODE.

FIRE PROTECTION CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS FOR CEILING CONDITIONS IN ALL SPACES. PROVIDE SPRINKLER HEADS AND SPACING AS REQUIRED BY NFPA 13 AND AUTHORITY HAVING JURISDICTION.

THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW, COORDINATE AND INCLUDE ALL DIVISION 21 WORK INDICATED ON ANY OF THE PROJECT DRAWINGS AS WORK OF THIS PROJECT, TO INCLUDE BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, PLUMBING, MECHANICAL, DRAWINGS, ETC.

AT ANY LOCATION WHERE FIRE PROTECTION PIPING PENETRATES AND ROUTES THROUGH A FINISHED WALL, CEILING, FLOOR, ETC., THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE AND INSTALL EITHER AN PIPE ESCUTCHEON OR A FABRICATED ENCLOSURE TO COVER ANY OPENING WITHIN THE FINISHED WALL/CEILING. PROVIDE A MOCK UP OF THE FABRICATED ENCLOSURE FOR THE ARCHITECT AND OWNERS APPROVAL PRIOR TO THE INITIATION OF ANY WORK.

FIRE PROTECTION CONTRACTOR SHALL PROVIDE AND INSTALL SPRINKLER PROTECTION UP WITHIN ANY OPEN CEILING CAVITY(S) AS REQUIRED BY NFPA 13 AND AUTHORITY HAVING JURISDICTION. FIRE PROTECTION CONTRACTOR SHALL REVIEW ALL DRAWINGS AND COORDINATE WITH ALL TRADES TO IDENTIFY ALL AREAS THAT REQUIRE TO BE PROTECTED WITH THE FIRE SPRINKLER SYSTEM.

THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL THROUGH PENETRATION FIRESTOP SYSTEMS AS REQUIRED TO SEAL WHERE PIPING PENETRATES A FIRE RATED WALL, FLOOR, OR OTHER LISTED ASSEMBLY. THE PLUMBING CONTRACTOR IS TO REVIEW LIFE SAFETY, AND ALL OTHER ARCHITECTURAL, DRAWINGS FOR THE EXACT LOCATION OF FIRE RATED ASSEMBLIES.

COORDINATE ROUTING OF ALL PIPING WITH ELECTRICAL PANEL LOCATIONS. DO NOT ROUTE PIPING OVER ELECTRICAL PANELS AND PROVIDE ALL WORKING CLEARANCES PER ELECTRICAL CODE. COORDINATE ROUTING WITH ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL DRAWINGS FOR PANEL LOCATIONS.

ALL MATERIALS INSTALLED WITHIN PLENUM SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING NOT EXCEEDING 50 IN ACCORDANCE WITH STATE CODES.

THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW. COORDINATE AND INCLUDE ALL DIVISION 22 WORK INDICATED ON ANY OF THE PROJECT DRAWINGS AS WORK OF THIS PROJECT, TO INCLUDE BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, PLUMBING, MECHANICAL, DRAWINGS, ETC.

BUILDING STRUCTURE IS NOT SHOWN. PROVIDE ALL FITTINGS, OFFSETS, AND DRAINS AS REQUIRED FOR INSTALLATION OF FIRE PROTECTION SYSTEM. CONTRACTOR SHALL MOUNT ALL PIPING TIGHT TO BUILDING STRUCTURE.

INTERIOR AUDIBLE & VISIBLE ALARM BY FIRE PROTECTION CONTRACTOR. COORDINATE LOCATION WITH AHJ & THE CITY OF BERNE FIRE DEPARTMENT PRIOR TO - INSTALLATION. EXTERIOR AUDIBLE & VISIBLE ALARM BY FIRE PROTECTION CONTRACTOR. COORDINATE LOCATION WITH AHJ & THE WIRING BY ELECTRICAL CITY OF BERNE FIRE CONTRACTOR . DEPARTMENT PRIOR TO COORDINATE INSTALLATION. -INSTALLATION WITH TO ZONE #2 (DRY SYSTEM) SYSTEM WATER EXTERIOR WALL -PRESSURE GAUGE -ASSEMBLY, TYPICAL FIRE DEPARTMENT WALL TO ZONE #1 MOUNT INDICATOR VALVE. (WET SYSTEM) - FLOW SWITCH COORDINATE LOCATION WITH FIRE DEPARTMENT. -TYPICAL. SWING CHECK VALVE WITH BALL DRIP, 5-INCH STORZ FIRE DEPARTMENT ROUTE DRIP TO COMPRESSOR CONNECTION WITH 30 DEGREE NEAREST DRAIN-DOWN TURN. COORDINATE MOUNTING ELEVATION WITH THE CITY OF BERNE FIRE CHIEF PRIOR ─ DRY VALVE WITH TO INSTALLATION. -MAIN DRAIN, TYPICAL. — GATE VALVE WITH TAMPER SWITCH, TYPICAL. 2-INCH INSPECTOR -6"ø INCOMING FIRE PROTECTION SERVICE — └ FLOOR DOUBLE CHECK BACKFLOW ASSEMBLY LIKE ZURN WILKINS MODEL 350.

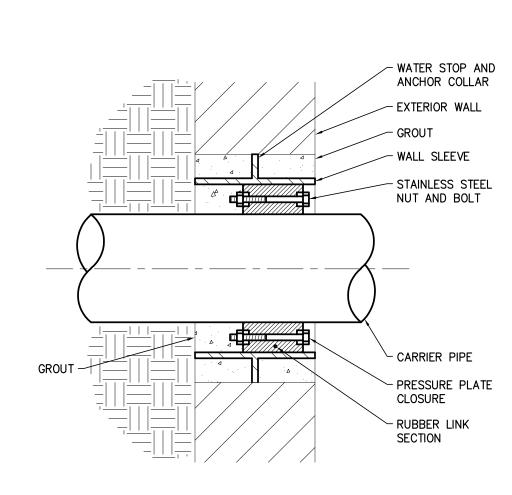
FIRE PROTECTION RISER DIAGRAM

NOT TO SCALE

115V AIR COMPRESSOR TO FIRE DEPARTMENT LOW WATER CONNECTION PRESSURE ALARM -PRESSURE GAUGE - TO ZONE #2 **ASSEMBLY** (DRY SYSTEM) FLOW SWITCH (WET SYSTEM) CHECK VALVE WITH -- DRY VALVE WITH TAMPER SWITCH MAIN DRAIN - MAIN DRAIN OUT DOUBLE CHECK THROUGH WALL ASSEMBLY CHECK 6"ø INCOMING FIRE PROTECTION SERVICE GATE VALVE WITH TAMPER SWITCH

> FIRE PROTECTION RISER ISOMETRIC NOT TO SCALE





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drawings shall have precedence over scale dimensions

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Fire Protection and Plumbing General Notes

date: March 2, 2022 project: 473003 (212600) coordinator: XXX FPG1.0 drawn: XXX

checked: XXX

6" FP UP 2-1/2" CW UP B Underground Plumbing Plan 1' 2' 4' 8'

PLUMBING PLAN NOTES

MINIMUM INVERT ELEVATION SHALL BE 2'-3" (97'-9") BELOW FINISHED FLOOR. PROVIDE NOT LESS THAN MINIMUM SLOPE 1/8" PER FOOT OVER THE ENTIRE LENGTH OF SANITARY PIPING PER THE 2012 INDIANA PLUMBING CODE. COORDINATE INVERT ELEVATION WITH THE SITE CONTRACTOR.

MINIMUM INVERT ELEVATION SHALL BE 2'-1" (97'-11") BELOW FINISHED FLOOR. PROVIDE NOT LESS THAN MINIMUM SLOPE 1/8" PER FOOT OVER THE ENTIRE LENGTH OF SANITARY PIPING PER THE 2012 INDIANA PLUMBING CODE. COORDINATE INVERT ELEVATION WITH THE SITE CONTRACTOR.

3 TO OIL / SAND OIL SEPARATOR. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.

4" SANITARY PIPING TO BE CONNECTED DOWNSTREAM OF THE OIL / SAND SEPARATOR. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.

Tefer to civil drawings for additional information.



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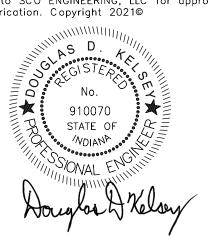
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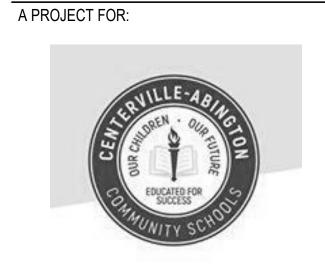
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VILLE-ABINGTON COMMUNITY SCHOOL TRANSPORTATION BUILDING



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Plan

date: March 2, 2022

project: 473003 (212600)

coordinator: SJB

drawn: TEH

checked: DDK

- ROUTE 3/4" CW, 3/4" HW, AND 1-1/2" VENT PIPING DOWN WITHIN WALL FOR FINAL CONNECTION TO PLUMBING FIXTURE. REFER TO PLUMBING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
- ROUTE 3/4" CW, 3/4" HW, AND 2" VENT PIPING DOWN WITHIN WALL FOR FINAL CONNECTION TO PLUMBING FIXTURE. REFER TO PLUMBING FIXTURE SCHEDULE FOR ADDITONAL INFORMATION.
- ROUTE 1" CW, 3/4" HW, AND 1-1/2" VENT PIPING DOWN WITHIN WALL FOR FINAL CONNECTION TO PLUMBING FIXTURES. REFER TO PLUMBING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
- ROUTE 3/4" CW AND 1-1/2" VENT PIPING DOWN WITHIN WALL FOR FINAL CONNECTION TO PLUMBING FIXTURE. REFER TO PLUMBING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
- TO ROUTE 1" CW AND 2" VENT PIPING DOWN WITHIN WALL FOR FINAL CONNECTION TO PLUMBING FIXTURES. REFER TO PLUMBING FIXTURE SCHEDULE FOR ADDITONAL INFORMATION.
- ROUTE 1-1/2" CW, 1-1/2" HW, AND 1-1/2" VENT PIPING DOWN WITHIN WALL FOR FINAL CONNECTION TO PLUMBING FIXTURES. REFER TO PLUMBING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
- PROVIDE AND INSTALL INLINE CHECK VALVE ON BOTH THE COLD WATER AND HOT WATER SUPPLY PIPING ROUTED DOWN TO MOP BASIN. 8 PROVIDE AND INSTALL WATER HAMMER ARRESTORS ON COLD AND HOT WATER PIPING. REFER TO WATER HAMMER ARRESTOR SCHEDULE AND
- SPECIFACTIONS FOR ADDITIONAL INFORMATION. (9) APPROXIMATE LOCATION FOR WALL HYDRANTS. COORDINATE EXACT ELEVATIONS OF HYDRANTS WITH ARCHITECT PRIOR TO INSTALLATION.
- 10) REFER TO ELECTRIC WATER HEATER DETAIL FOR ADDTIIONAL INFORMATION.
- 11) REFER TO INCOMING DOMESTIC WATER DETAIL FOR ADDITIONAL INFORMATION.
- PROVIDE AND INSTALL HYDRAULIC LEAK DETECTION SYSTEM IN THE BOTTOM OF THE LIFT PIT LIKE DORLAN PRODUCTS INC., MODEL "OIL ALERT LIQUID LEAK DETECTOR". PROVIDE SYSTEM WITH OAX-2100 FLOOR MOUNTED SENSOR(S), WALL MOUNT SERIES 2100 MONITOR, DORLAN TYPE 'F' INTERCONNECT CABLE, AND AUDIBLE ALARM. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONTROL WIRING, RELAYS, AND ACCESSORIES AS REQUIRED TO INTERLOCK THE FLOOR SENSOR IN THE LIFT PIT AND THE WALL MOUNTED MONITOR FOR A COMPLETE AND FUNCTIONING SYSTEM. WIRING SHALL BE INSTALLED PER ELECTRICAL SPECIFICATIONS. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.

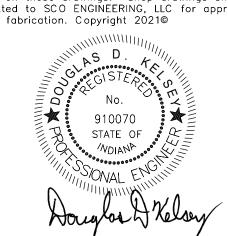


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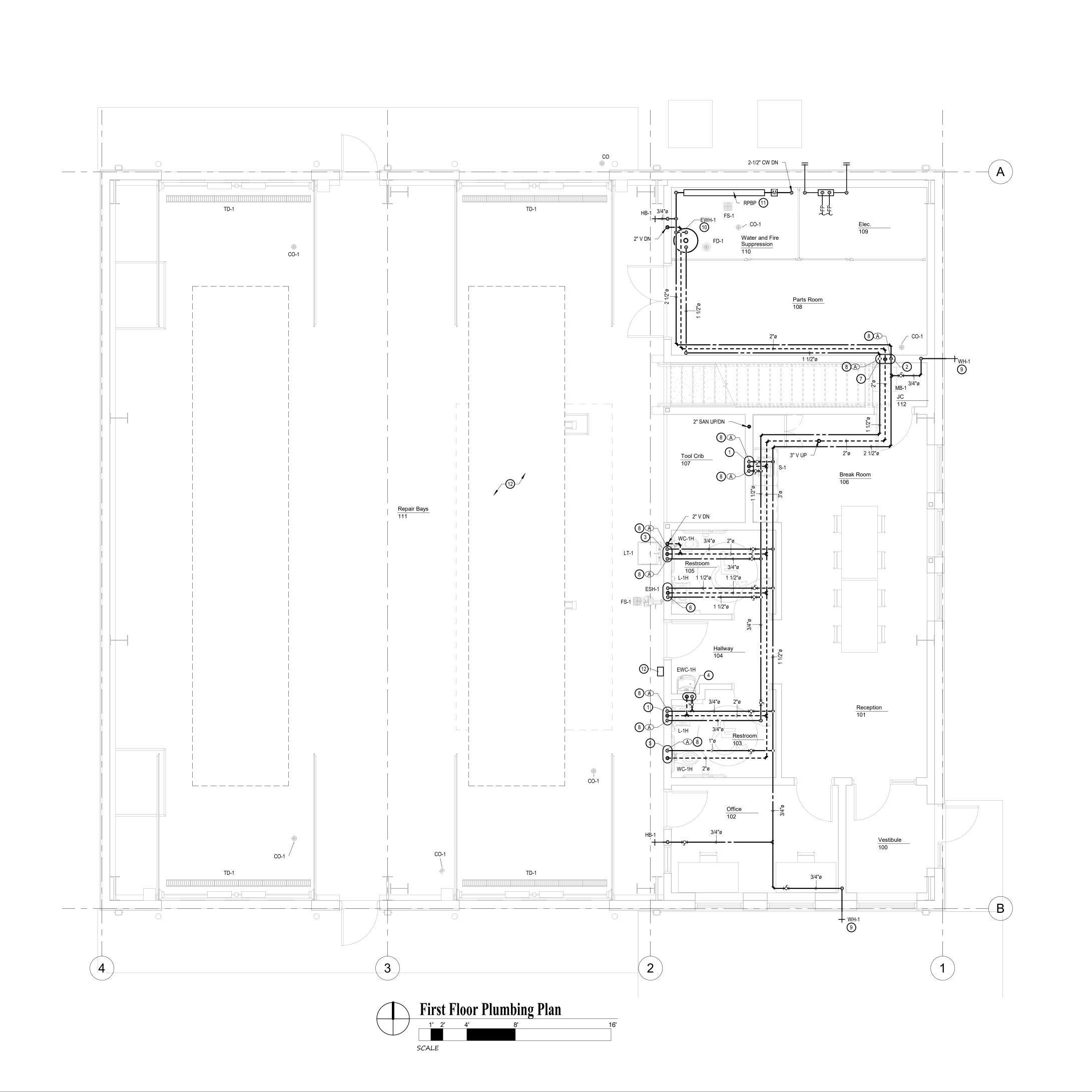


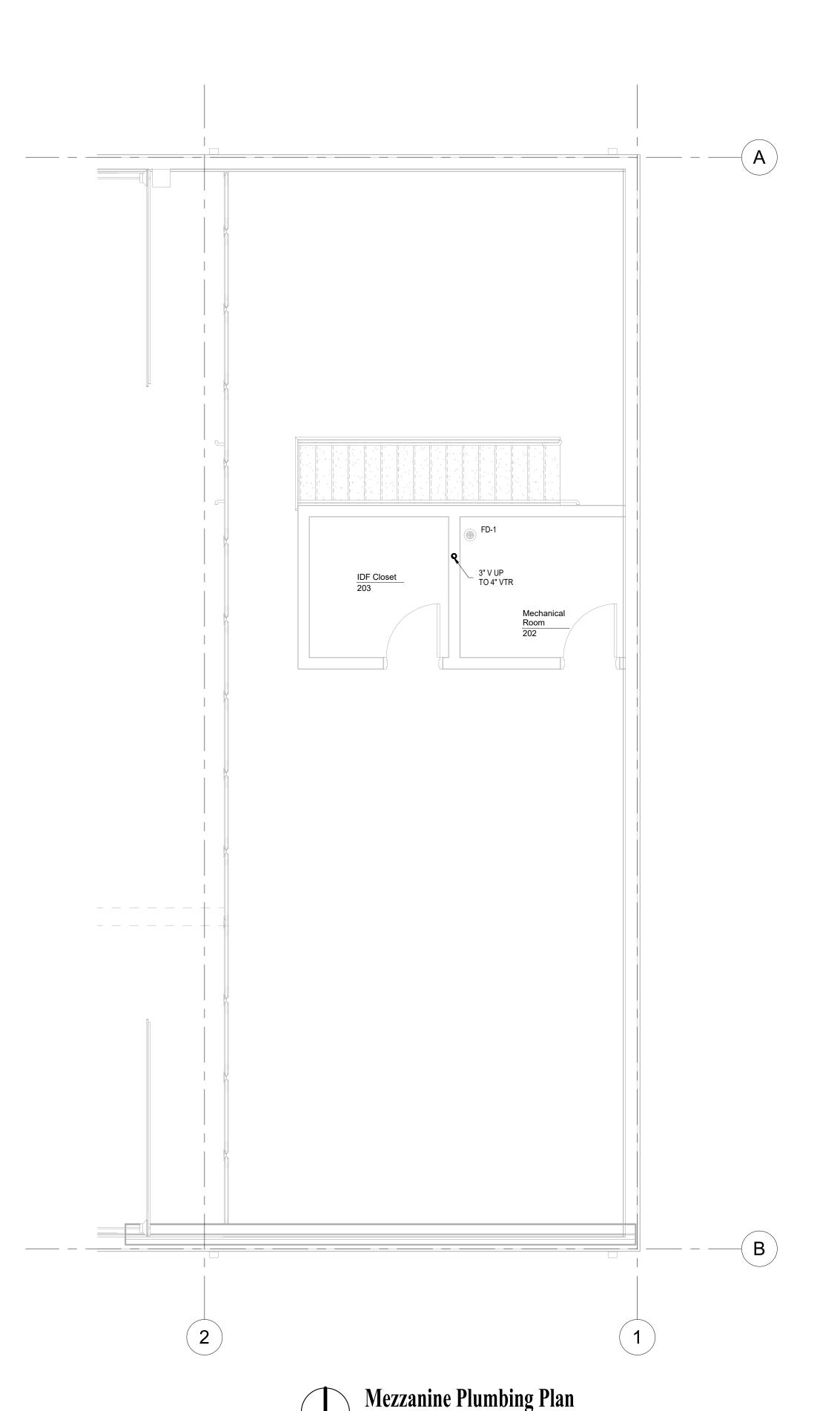


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| date: | March 2, 2022 | |
|--------------|-----------------|-----|
| project: | 473003 (212600) | |
| coordinator: | SJB | |
| drawn: | TEH | P2. |
| | | |

__checked: DDK







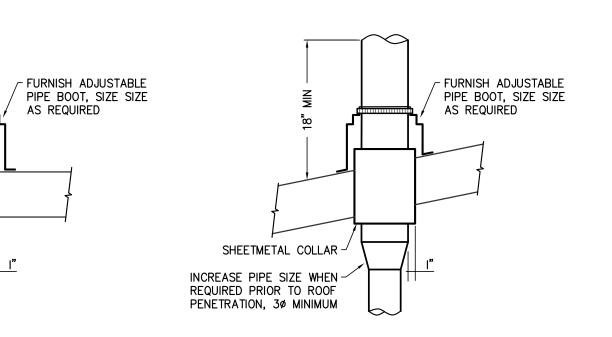
INTERIOR CLEANOUT DETAIL

NOT TO SCALE

CLEANOUT ACCESS COVER

C.I. CLEANOUT FERRULE AND PLUG

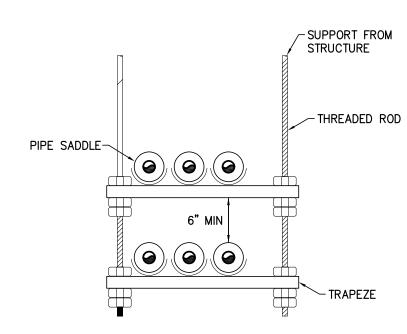
-GRANULAR BACKFILL, MECHANICAL COMPACTED



VENT THRU ROOF NOT TO SCALE

SHEETMETAL COLLAR -

INCREASE PIPE SIZE WHEN -REQUIRED PRIOR TO ROOF PENETRATION, 3"Ø MINIMUM



PIPE SUPPORT DETAIL NOT TO SCALE

SCH 40 STEEL— PIPE SLEEVE

ESCUTCHEON, WHERE EXPOSED TO VIEW.

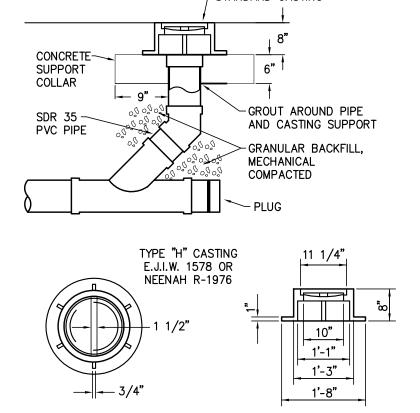
NOT TO SCALE

/ INSTALL FIRE STOPPING IN RATED ASSEMBLY PER THE FIRE STOPPING

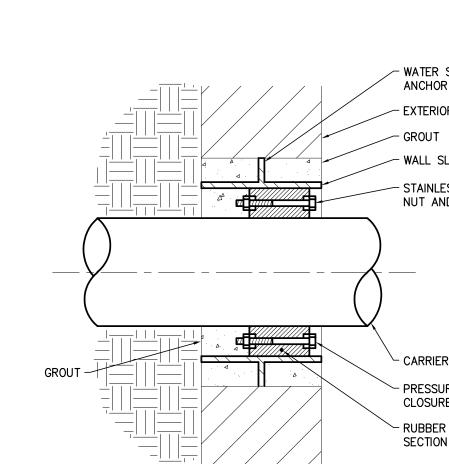
TYPICAL PIPE - SEE PLANS FOR SIZES

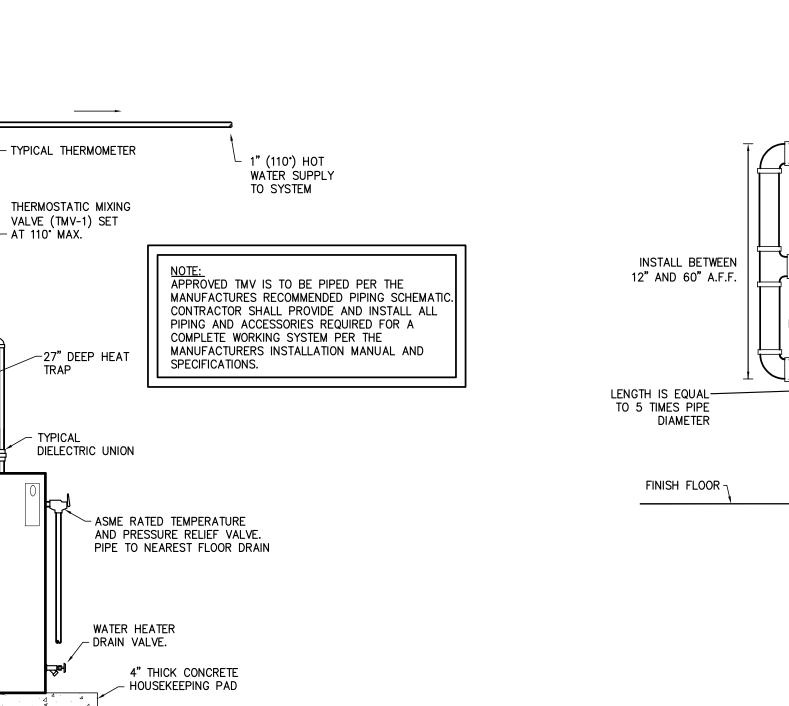
WALL - SEE PLANS FOR TYPES AND SIZES

MANUFACTURER'S UL LISTING



EXTERIOR CLEANOUT DETAIL NOT TO SCALE





ELECTRIC WATER HEATER DETAIL NOT TO SCALE

ELECTRIC WATER HEATER EWH-1

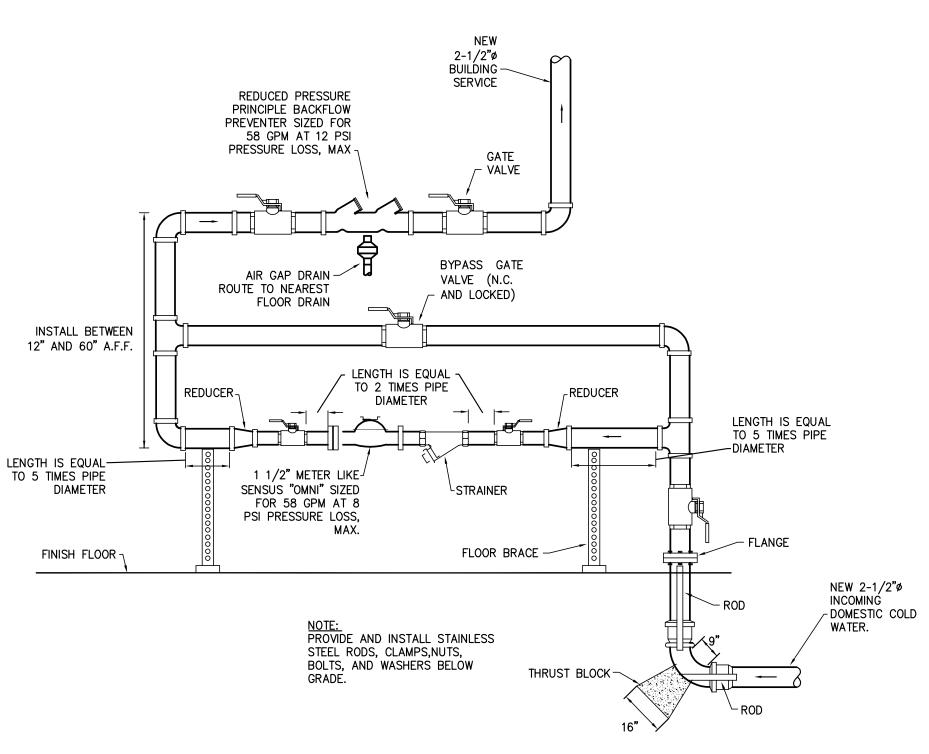
TYPICAL CHECK /- VALVE

1" COLD WATER SUPPLY TO WATER HEATER

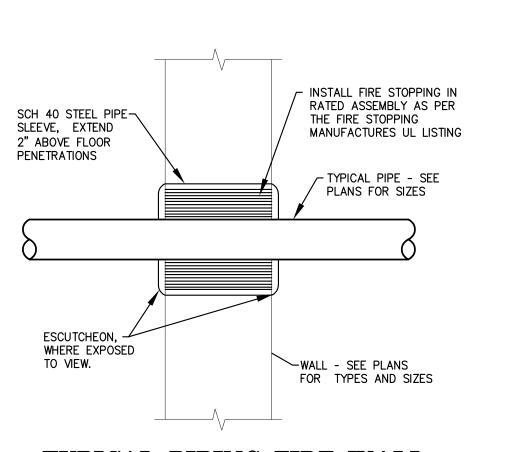
TYPICAL BALL VALVE

FINISHED FLOOR -

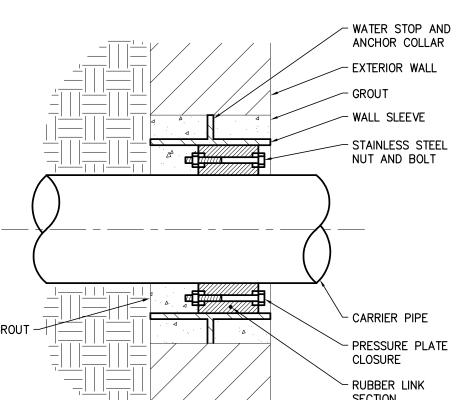
ASME RATED DOMESTIC — HOT WATER EXPANSION



DOMESTIC WATER ENTRANCE DETAIL



TYPICAL PIPING FIRE WALL FLOOR PENETRATION DETAIL NOT TO SCALE



TYPICAL PIPING FIRE WALL OR CEILING PENETRATION DETAIL

EXTERIOR WALL SLEEVE DETAIL

A PROJECT FOR:



| permitted to retain | | ten consent of Moake Park Group, Inc The Owner shall be deference in connection with this project. |
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date: March 2, 2022 project: 473003 (212600) coordinator: XXX P5.1 drawn: XXX

checked: XXX



| | | FIXTURE | | TRIM | | l l | PIPE CON | INECTION | NS S | | |
|---------|-------------------|------------|---------|----------------|--------------|--------|----------|----------|------|-----------|--------------|
| FIXTURE | MFGR | MODEL | MFGR | MODEL | TYPE | W | V | HW | CW | COLOR | REMARKS |
| WC-1H | AMERICAN STANDARD | 2467.016 | | | TANK TYPE | 3" | 2" | | 1/2" | WHITE | 1, 3, 4 |
| L-1H | AMERICAN STANDARD | 0355.012 | CHICAGO | 802-1000ABCP | LEVER HANDLE | 1 1/2" | 1 1/2" | 1/2" | 1/2" | WHITE | 6, 7, 8, 13, |
| S-1 | ELKAY | LR 1720 | CHICAGO | 786-GN8AE3ABCP | LEVER HANDLE | 2" | 1 1/2" | 1/2" | 1/2" | STAINLESS | 9, 27 |
| EWC-1H | ELKAY | EZS8L | | | | 1 1/4" | 1 1/4" | | 1/2" | STAINLESS | 9, 10, 11 |
| ESH-1 | HAWS | 8336 | | | | 1 1/2" | | 1" | 1" | GREEN | 34, 35 |
| CO-1 | JOSAM | 55000-1-22 | | | | | | | | | 15, 16 |
| FD-1 | JOSAM | 30000-A | | | | | | | | | 17, 18, 19, |
| FS-1 | JOSAM | 49340A-NB | | | | | | | | | 21, 22 |
| TD-1 | EAST JORDAN | 6954 | | | | | | | | | 36 |
| MB-1 | FIAT | MSB2424 | CHICAGO | 897 | FAUCET | 3" | 1 1/2" | 1/2" | 1/2" | WHITE | 12 |
| LT-1 | FIAT | TAT1 | | | | 2 | 1 1/2" | 1/2" | 1/2" | WHITE | 37, 38 |
| WH-1 | WOODFORD | B65 | | | | | | | 3/4" | BRONZE | 23 |
| HB-1 | WOODFORD | 24 | | | | | | | 3/4" | BRONZE | 33 |

| FD-1 | JOSAM | 30000-A | | | | | | | | | 17, 18, 19, 20 |
|----------|--|-----------------------|----------------------|-----------------------|------------------------|--------|---------|------|------|--------|----------------|
| FS-1 | JOSAM | 49340A-NB | | | | | | | | | 21, 22 |
| TD-1 | EAST JORDAN | 6954 | | | | | | | | | 36 |
| MB-1 | FIAT | MSB2424 | CHICAGO | 897 | FAUCET | 3" | 1 1/2" | 1/2" | 1/2" | WHITE | 12 |
| LT-1 | FIAT | TAT1 | | | | 2 | 1 1/2" | 1/2" | 1/2" | WHITE | 37, 38 |
| WH-1 | WOODFORD | B65 | | | | | | | 3/4" | BRONZE | 23 |
| HB-1 | WOODFORD | 24 | | | | | | | 3/4" | BRONZE | 33 |
| | | | | | | | | | | | |
| REMARKS: | | • | • | • | • | • | • | | | | |
| 1 | PROVIDE HEAVY DUTY ELONGATE | D WHITE OPEN FRONT | PLASTIC SEAT WITH CH | HECK HINGE AMERICAN S | TANDARD MODEL 5905.100 | OR EQU | VALENT. | | | | |
| 2 | MOUNT RIM AT 15" A.F.F. | | | | | | | | | | |
| 3 | PROVIDE AND INSTALL UNIT WITH 3/8" ANGLE SUPPLY WITH STOPS. | | | | | | | | | | |
| 4 | INSTALL TRIP LEVER ON THE WIDE SIDE OF THE STALL. | | | | | | | | | | |
| 5 | NOT USED | | | | | | | | | | |
| 6 | PROVIDE AND INSTALL JOSAM SERIES 17000 SERIES FLOOR MOUNTED CONCEALED ARM CARRIER | | | | | | | | | | |
| 7 | PROVIDE AND INSTALL WITH 17 GAUGE P-TRAP, ANGLE STOPS WITH LOOSE KEY HANDLES, AND VANDAL PROOF GRID STRAINER. | | | | | | | | | | |
| 8 | PROVIDE AND INSTALL UNIT WITH PIPE WRAP KIT EQUAL TO TRUBRO OR PLUMBEREX PRO. | | | | | | | | | | |
| 9 | MOUNT MAXIMUM OF 34" A.F.F. TO BUBBLER WITH A MINIMUM OF 27" CLEARANCE BELOW TO MEET A.D.A. REQUIREMENTS. | | | | | | | | | | |
| 10 | PROVIDE AND INSTALL 17 GAUGE P-TRAP AND ANGLE STOPS WITH LOOSE KEY HANDLES. | | | | | | | | | | |
| 11 | PROVIDE UNIT WITH MOUNTING FRAME, COOLING UNIT, AND ALL REQUIRED PANELS AND MISCELLANEOUS PARTS REQUIRED BY MANUFACTURER FOR INSTALLATION. | | | | | | | | | | |
| 12 | PROVIDE AND INSTALL VACUUM BREAKER, PAIL HOOK, HOSE MODEL 832-AA AND MOP HANGER, AND STRAINER. | | | | | | | | | | |
| 13 | MOUNT RIM AT 29" A.F.F. TO BOTTOM OF APRON. | | | | | | | | | | |
| 14 | PROVIDE AND INSTALL WITH BRAIDED STAINLESS STEEL SUPPLIES. | | | | | | | | | | |
| 15 | CLEANOUTS SHALL BE SIZED PER | R PLANS. | | | | | | | | | |
| 16 | PROVIDE AND INSTALL UNIT FOR | FINISHED FLOOR, ROU | ND TOP. | | | | | | | | |
| 17 | FLOOR DRAINS SHALL BE SIZED | PER PLANS. | | | | | | | | | |
| 18 | PROVIDE AND INSTALL UNIT WITH | NIKALOY ROUND TOP. | • | | | | | | | | |
| 19 | PROVIDE AND INSTALL UNIT WITH | I DEEP SEAL TRAP. | | | | | | | | | |
| 20 | PROVIDE AND INSTALL UNIT WITH | SURE SEAL, INLINE F | LOOR DRAIN TRAP SEA | .L. | | | | | | | |
| 21 | MOUNT RIM AT 17" A.F.F. | | | | | | | | | | |
| 22 | MOUNT RIM AT 24" A.F.F. | | | | | | | | | | |
| 23 | UNIT TO BE NON-FREEZE, AUTOM | MATIC DRAIN TYPE WITH | H LOOSE KEY STOPS A | ND VACUUM BREAKER. | | | | | | | |
| 24 | ROOF DRAINS SHALL BE SIZED P | PER PLANS. | | | | | | | | | |
| 25 | CUSTOM COLOR TO BE SELECTED | BY ARCHITECT. | | | | | | | | | |
| 26 | PROVIDE UNIT WITH MANUFACTUR | RER SUPPLIED "NAVIGA" | TOR THERMOSTATIC MIX | KING ASSEMBLY. | | | | | | | |
| 27 | PROVIDE AND INSTALL WITH 17 (| GAUGE P-TRAP, ANGLE | STOPS WITH LOOSE K | EY HANDLES. FAUCETS S | HALL BE ADA COMPLIANT. | | | | | | |
| 28 | PROVIDE AND INSTALL UNIT WITH | I INFRARED FAUCETS A | AND PLUG-IN ADAPTERS | S. | | | | | | | |
| 29 | PROVIDE AND INSTALL JOSAM SE | RIES 17560-UR FLOOR | MOUNTED URINAL CHA | AIR CARRIER WITH DEEP | SEAL TRAP. | | | | | | |
| 30 | PROVIDE AND INSTALL UNIT WITH | ROUGH-INS FOR DRAI | IN THROUGH FLOOR AN | ID WATER SUPPLY CONNE | ECTION THROUGH WALL. | | | | | | |
| 31 | PROVIDE AND INSTALL UNIT WITH | THERMOSTATIC MIXING | G VALVE. | | | | | | | | |
| 32 | UNIT TO BE STANDARD HEIGHT | | | | | | | | | | |
| 33 | PROVIDE AND INSTALL UNIT WITH | I VACUUM BREAKER A | ND METAL WHEEL HAND | DLE. | | | | | | | |
| 174 | LINIT TO DE ELOOD MOUNTED | | | | | | | | | | |

PROVIDE AND INSTALL WITH AXION MSR DRENCH SHOWER HEAD AND EYE/FACE WASH HEAD, AND MODEL 9201E THERMOSTATIC MIXING VALVE WITH ASSE 1071 LISTING.

PROVIDE AND INSTALL WITH 4" CENTERS, ELKAY LK-18 DRAIN, 17 GAUGE P-TRAP, AND ANGLE STOPS WITH LOOSE KEY HANDLES.

PROVIDE AND INSTALL WITH MANUFACTURER PROVIDED CHROME PLATED FAUCET WITH 4" CENTERSED, 4" WRISTBLADE HANDLES, SWING SPOUT, AERATOR, AND HOSE ADAPTOR.

PROVIDE AND INSTALL 14-INCH WIDE HEAVY DUTY, UNBOLTED DUCTILE IRON SLOTTED GRATE AND INSTALLATION FRAME AS REQUIRED FOR INSTALLATION INTO 12-WIDE CONCRETE TRENCH.

UNIT TO BE FLOOR MOUNTED.

| | | | MAX. FIXTURE | CONNECTION | |
|------|-------------|---------|---------------|------------|---------|
| MARK | MANUFACTURE | MODEL # | UNIT CAPACITY | SIZE | REMARKS |
| Α | SIOUX CHIEF | 652-A | 1 TO 11 | 1/2" | 1 |
| В | SIOUX CHIEF | 653-B | 12 TO 32 | 3/4" | 1 |
| С | SIOUX CHIEF | 654-C | 33 TO 60 | 1" | 1 |
| D | SIOUX CHIEF | 655-D | 61 TO 113 | 1 1/4" | 1 |
| Е | SIOUX CHIEF | 656-E | 114 TO 154 | 1 1/2" | 1 |
| F | SIOUX CHIEF | 657-F | 155 TO 330 | 2" | 1 |

TEMPERATURE MIXING VALVE SCHEDULE MIN. / MAX DESIGN DESIGN OUTLET

MANUFACTURE MODEL FLOW (GPM) FLOW (GPM) PRESS. DROP (PSI) TEMP. (DEG. F)

PROVIDE AND INSTALL UNIT WITH CHECK VALVES ON HOT AND COLD WATER SUPPLY, INTEGRAL OUTLET THERMOMETER AND SHUT-OFF VALVE ON TEMPERED WATER OUTLET. PROVIDE AND INSTALL AN EXPOSED ASSEMBLY WITH ROUGH BRASS FINISH. VALVE SHALL FAIL TO THE COLD SUPPLY.

| ELECTRIC WATER HEATER SCHEDULE | | | | | | | | | |
|--------------------------------|-------------|-----------|----------|----------------|---------------|------------|--------------|------------|--|
| | | | ELEMENT | STORAGE | 100 DEG. RISE | ELECTRICAL | AREA | | |
| TAG | MANUFACTURE | MODEL | KW | CAPACITY, GAL. | RECOVERY GPH | (V / PH) | SERVED | REMARKS | |
| EWH-1 | LOCHINVAR | LDT-50 TK | 4.5 (x2) | 50 | 19 | 208 / 3 | ADMIN. SUITE | 1, 2, 3, 4 | |
| | | | | | | | | | |
| REMARKS: | | | | | | | | | |

PROVIDE AND INSTALL UNIT WITH ASME TEMPERATURE AND PRESSURE RELIEF VALVE AND EMERGENCY DRAIN PAN. UNIT IS TO BE PROVIDED WITH DUAL 4500 WATT, IMMERSION HEATING ELEMENTS AND IS TO BE WIRED FOR NON-SIMULTANEOUS OPERATION. PROVIDE UNIT WITH ADJUSTABLE THERMOSTAT CONTROL AND MANUAL RESET HIGH LIMIT SAFETY CONTROL, AND TANK SAVER ANODE. SET OUTLET TEMPERATURE TO BE 140 DEGREES, F. MAX.

3. TANK SHALL BE SPECIFICALLY DESIGNED FOR POTABLE HOT WATER SYSTEMS.

TANK IS TO BE ASME RATED.

| | | | TANK VOL. | ACCEPTANCE | | INLET | |
|------|-------------|---------|-----------|------------|----------|-------|------------|
| TAG | MANUFACTURE | MODEL | (GAL) | (GAL) | MOUNTING | SIZE | REMARKS |
| ET-1 | AMTROL | ST-12-C | 6.4 | 3.2 | VERTICAL | 3/4" | 1, 2, 3, 4 |
| | | | | | | | |

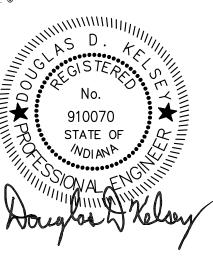


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CENTERVIL

A PROJECT FOR:

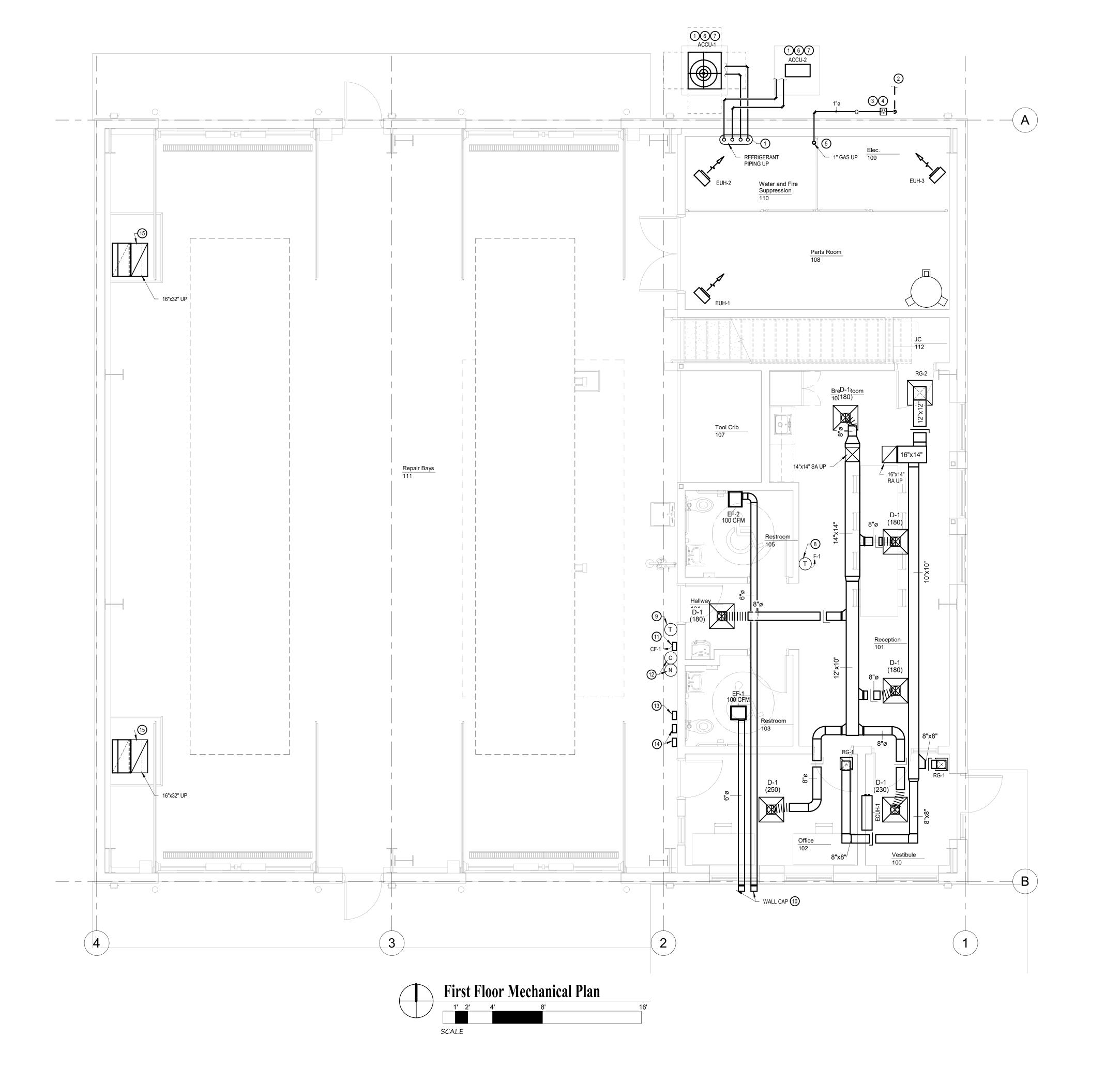


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Plumbing Schedules

date: March 2, 2022 project: 473003 (212600) coordinator: SJB P6.1 drawn: TEH

checked: DDK



MECHANICAL HVAC AND PIPING PLAN NOTES

- ROUTE REFRIGERANT PIPING FROM CASED COOLING COIL AT HIGHEST POSSIBLE ELEVATION AND ROUTE DOWN WITHIN INTERIOR WALL AND THROUGH EXTERIOR WALL AT 3'-0" ABOVE GRADE FOR CONNECTION TO GROUND MOUNTED CONDENSING UNIT. CORE DRILL OPENINGS AS REQUIRED FOR PIPING PENETRATION AND SEAL WEATHER TIGHT. APPLY "UV" COATING TO ARMAFLEX INSULATION INTALLED OUTDOORS. PIPING AT WALL PENETRATION SHALL BE ENCASED IN A PROTECTIVE PIPE SLEEVE AND SHALL BE SEALED WEATHER TIGHT. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL REQUIRED REFRIGERANT LINESETS AND REFRIGERANT FOR CONNECTION FROM AIR HANDLER TO OUTDOOR UNIT AS REQUIRED FOR EXTENDED LENGTHS. INSTALL PIPING PER MANUFACTURERS
- 2 REFER TO SITE PLAN FOR CONTINUATION.
- APPROXIMATE NEW METER LOCATION, COORDINATE EXACT LOCATION OF GAS SERVICE TO NEW METER LOCATION WITH LOCAL GAS UTILITY. MAINTAIN REQUIRED CLEARANCES FROM ANY OPERABLE OPENING OR OUTSIDE AIR INTAKE AS REQUIRED BY INTERNATIONAL MECHANICAL CODE, INDIANA MECHANICAL CODE, ALL STATE AND LOCAL CODES, AND UTILITY REGULATIONS. TOTAL CALCULATED LOAD OF NEW EQUIPMENT, 620 CFH. INCLUDE ALL ASSOCIATED FEES FROM UTILITY COMPANY. GAS UTILITY TO PROVIDE PRESSURE REDUCING VALVE, METER, AND SERVICE. MECHANICAL CONTRACTOR SHALL PROVIDE A SERVICE TYPE REGULATOR TO REDUCE THE INCOMING GAS PRESSURE TO 2 PSI GAS PRESSURE.
- CONTRACTOR SHALL CLEAN, PRIME, AND PAINT ALL EXPOSED NATURAL GAS PIPING AND HANGERS WITH RUST INHIBITING PAINT. ARCHITECT TO SELECT COLOR.
- 1 " NATURAL GAS PIPING IS TO BE ROUTED THROUGH EXTERIOR WALL AT 2'-0" ABOVE GRADE AND INTO BUILDING FOR CONNECTION TO MECHANICAL EQUIPMENT AS SHOWN. GAS PIPING AT WALL PENETRATION SHALL BE ENCASED IN A PROTECTIVE PIPE SLEEVE AND SHALL BE SEALED WEATHER TIGHT. CONTRACTOR SHALL CORE DRILL OPENINGS IN WALL AS REQUIRED FOR THE INSTALLATION OF NEW PINFORMATION.
- PROVIDE AND INSTALL AIR COOLED CONDENSING UNIT ACCORDING TO MANUFACTURERS REQUIREMENTS. CONDENSING UNIT IS TO BE INSTALLED ON A SINGLE 4" THICK REINFORCED CONCRETE PAD, 6" LARGER THAN THE FOOTPRINT OF THE CONDENSING UNIT AND IS TO BE A MINIMUM OF 4" ABOVE FINISH GRADE. PROVIDE REFRIGERANT PIPING FROM CONDENSING UNIT TO INDOOR COIL. PROVIDE ALL REQUIRED ACCESSORIES AND PIPING SIZED TO MEET MANUFACTURERS RECOMMENDATIONS. ALLOW CLEARANCES FROM BUILDING STRUCTURE AS REQUIRED BY MANUFACTURER. COORDINATE LOCATION OF CONDENSING UNIT WITH ARCHITECT AND WORK OF OTHER TRADES.
- MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONTROL WIRING, RELAYS, AND ACCESSORIES AS REQUIRED TO INTERLOCK FURNACE AND ACCU FOR A COMPLETE AND FUNCTIONING SYSTEM. WIRING SHALL BE INSTALLED PER ELECTRICAL SPECIFICATIONS
- PROVIDE AND INSTALL NEW TEMPERATURE SENSOR IN LOCATION SHOWN. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONTROL WIRING, RELAYS, AND ACCESSORIES AS REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM. WIRING SHALL BE INSTALLED PER ELECTRICAL SPECIFICATIONS.
- PROVIDE AND INSTALL NEW TEMPERATURE SENSOR IN LOCATION SHOWN. IT IS THE INTENT OF THE DRAWINGS THAT THE THERMOSTAT SHALL CONTROL THREE RADIANT TUBE HEATERS. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONTROL WIRING, TRANSFORMERS, RELAYS, AND ACCESSORIES AS REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM. WIRING SHALL BE INSTALLED PER ELECTRICAL SPECIFICATIONS.
- PROVIDE AND INSTALL SIDEWALL VENT CAP WITH BIRD SCREEN. CONTRACTOR SHALL PROVIDE AND INSTALL NON-SHRINK, COLOR MATCHED CAULK TO SEAL PENETRATION WEATHER TIGHT. ARCHITECT TO SELECT COLOR OF CAULKING.
- CONTRACTOR SHALL ROUTE CAT-5E CONTROL CABLE FROM CEILING FAN AND ROUTE DOWN TO CEILING FAN KEYPAD CONTROL THAT IS TO BE MOUNTED ON THE WALL AS SHOWN. KEY PAD IS TO BE MOUNTED 4'-0" A.F.F. COORDINATED EXACT INSTALLATION LOCATION OF KEYPAD CONTROL WITH ARCHITECT AND OWNER PRIOR TO THE INITIATION OF ANY INSTALLATION.
- CONTRACTOR SHALL PROVIDE AND INSTALL CARBON MONOXIDE AND NITROGEN DIOXIDE SENSORS LIKE: INTEC CONTROLS MODEL DT-1112V4 AND MODEL DTS-1130V1 TO ME MOUNTED ON COLUMNS AS SHOWN. SENSORS ARE TO BE MOUNTED 5'-0" A.F.F. SENSOR LAYOUT IS BASED UPON EACH SENSOR COVERING 7500 SQ. FT. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL ADDITIONAL SENSORS AND ACCESSORIES REQUIRED BASED UPON MANUFACTURERS RECOMMENDATIONS FOR SYSTEM PROVIDED FOR A COMPLETE AND FUNCTIONING SYSTEM.
- (13) CONTRACTOR SHALL PROVIDE AND INSTALL A MULTI-PORT GAS DETECTION AND CONTROL SYSTEM LIKE: INTEC CONTROLS MODEL MGL2-12. CONTRACTOR SHALL PROVIDE AND INSTALL ALL SENSORS, CONTROLLERS, RELAYS, CONDUIT, WIRING, ETC. FOR A COMPLETE AND FUNCTIONING SYSTEM.
- EXHAUST FAN MOTOR CONTROL CENTER TO MOUNTED ON WALL IN LOCATION AS SHOWN. MOUNT THE MOTOR CONTROL CENTER AT A MINIMUM OF 5'-0" A.F.F. TO BOTTOM OF UNIT TO PREVENT DAMAGE FROM MOTOR VEHICLES.
- CONTRACTOR SHALL SURFACE MOUNT THE 32"x16", 20 GA., GALVANIZED STEEL EXHAUST AIR DUCTWORK AND ROUTE DOWN ALONG WALL AND TERMINATE 12-INCHES ABOVE THE FINISHED FLOOR PER THE 2012 INDIANA MECHANICAL CODE AND THE 2012 INTERNATIONAL FIRE CODE REFER TO EXHAUST FAN SECTION ON M2.2.

MOAKE PARK GROU

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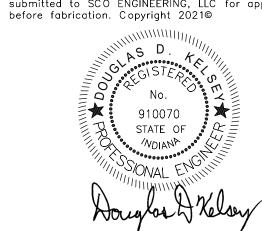
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ERVILLE-ABINGTON COMMUNITY SCHOOLS TRANSPORTATION BUILDING



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First Floor Mechanical Plan

date: March 2, 2022

project: 473003 (212600)

coordinator: SJB

drawn: TEH

checked: DDK

EXHAUST FAN SEQUENCE OF OPERATION

IT IS THE INTENT OF THIS PROJECT THAT EXHAUST FANS EF-3 AND EF-4 THAT ARE LOCATED WITHIN THE GARAGE AREA ARE TO BE CONTROLLED THROUGH THE MULTI-PORT GAS DETCTION AND CONTROL SYSTEM AND THE MOTOR CONTROL CENTER AS PROVIDED BY THE EXHAUST FAN MANUFACTURER. ALL FANS SHALL BE INDEXED TO THE AUTOMATIC MODE TO FULLY VENTILATE THE ENCLOSED GARAGE.

- CARBON MONOXIDE CONTROL SEQUENCE: WHEN THE SYSTEM IS INDEXED TO THE ON POSITION, THE MOTOR CONTROL CENTER SHALL ENERGIZE THE MOTORIZED DAMPER ON LOUVER L-1 AND SHALL OPEN THE DAMPER TO ALLOW 425 CFM OF OUTSIDE AIR INTO THE SPACE. LOUVER L-2 IS TO REMAIN CLOSED.
- WHEN THE SYSTEM IS INDEXED TO THE ON POSITION, THE MOTOR CONTROL CENTER SHALL ENERGIZE EXHAUST FAN EF-3 AND ITS ASSOCIATED VFD SHALL OPERATE EF-3 AT A SPEED TO MAINTAIN THE MINIMUM EXHAUST VENTILATION RATE OF 425 CFM. EF-4 SHALL REMAIN OFF. ON AN INCREASE OF CO LEVELS ABOVE THE 25 PPM SETPOINT (OWNER ADJUSTABLE), AS DETECTED BY THE CO SENSORS LOCATED IN THE ENCLOSED GARAGE, THE MOTOR CONTROL CENTER(S) SHALL ENERGIZE THE
- LOUVER. LOUVER L-2 IS TO REMAIN CLOSED. ON AN INCREASE OF CO LEVELS ABOVE THE 25 PPM SETPOINT (OWNER ADJUSTABLE), AS DETECTED BY THE CO SENSORS LOCATED IN THE ENCLOSED GARAGE, THE MOTOR CONTROL CENTER(S) SHALL INCREASE THE EXHAUST VENTILATION RATE OF EF-3 THROUGH ITS ASSOCIATED VFD TO ITS MAXIMUM EXHAUST AIRFLOW RATE AS SCHEDULED ON THE EXHAUST FAN SCHEDULE. EF-4 SHALL REMAIN OFF.

MOTORIZED DAMPERS ON LOUVERS L-1 TO THE FULLY OPEN POSITION TO ALLOW FOR FULL FLOW THROUGH THE

- IF THE CO LEVELS CONTINUE TO RISE IN THE ENCLOSED GARAGE ABOVE 50 PPM, THE MOTOR CONTROL CENTER(S) SHALL ENERGIZE THE MOTORIZED DAMPERS ON LOUVERS L-2 AND SHALL OPEN THE DAMPER TO ALLOW 425 CFM OF OUTSIDE AIR INTO THE SPACE. EXHAUST FAN EF-4 SHALL BE ENERGIZED ON AND SHALL BE OPERATED IN CONJUNCTION WITH EF-3. EF-4'S ASSOCIATED VFD SHALL OPERATE THE EXHAUST FAN TO ITS MINIMUM EXHAUST
- VENTILATION RATE OF 425 CFM. IF THE CO LEVELS CONTINUE TO RISE IN THE ENCLOSED GARAGE ABOVE 75 PPM, THE MOTOR CONTROL CENTER(S) SHALL ENERGIZE THE MOTORIZED DAMPERS ON LOUVERS L-2 TO THE FULLY OPEN POSITION TO ALLOW FOR FULL FLOW THROUGH THE LOUVER AND SHALL INCREASE THE EXHAUST VENTILATION RATE OF EF-4 THROUGH ITS ASSOCIATED VFD TO ITS MAXIMUM EXHAUST AIRFLOW RATE AS SCHEDULED ON THE EXHAUST FAN SCHEDULE. ACTIVATE THE CONTROLLER'S HORN AND ALARM LED. ALL TWO EXHAUST FANS SHALL BE OPERATING AT FULL
- WHEN THE CO LEVEL IN THE ENCLOSED GARAGE DROPS BELOW 25 PPM (OWNER ADJUSTED), DE-ENERGIZE WHEN THE CO LEVEL IN THE ENCLOSED GARAGE DROPS BELOW 25 PPM (OWNER ADJUSTED), DE-ENERGIZE THE
- SPEED TO FLUSH THE ENCLOSED GARAGE.

- NITROGEN DIOXIDE CONTROL SEQUENCE:
- WHEN THE SYSTEM IS INDEXED TO THE ON POSITION, THE MOTOR CONTROL CENTER SHALL ENERGIZE THE MOTORIZED DAMPER ON LOUVER L-1 AND SHALL OPEN THE DAMPER TO ALLOW 425 CFM OF OUTSIDE AIR INTO THE SPACE. LOUVER L-2 IS TO REMAIN CLOSED. WHEN THE SYSTEM IS INDEXED TO THE ON POSITION, THE MOTOR CONTROL CENTER SHALL ENERGIZE EXHAUST FAN EF-3 AND ITS ASSOCIATED VFD SHALL OPERATE EF-3 AT A SPEED TO MAINTAIN THE MINIMUM EXHAUST VENTILATION RATE OF 425 CFM. EF-4 SHALL REMAIN OFF.
- ON AN INCREASE OF NO2 LEVELS ABOVE THE 3 PPM SETPOINT (OWNER ADJUSTABLE), AS DETECTED BY THE NO2 SENSORS LOCATED IN THE ENCLOSED GARAGE, THE MOTOR CONTROL CENTER(S) SHALL ENERGIZE THE MOTORIZED DAMPERS ON LOUVERS L-1 TO THE FULLY OPEN POSITION TO ALLOW FOR FULL FLOW THROUGH THE ON AN INCREASE OF NO2 LEVELS ABOVE THE 3 PPM SETPOINT (OWNER ADJUSTABLE), AS DETECTED BY THE NO2 SENSORS LOCATED IN THE ENCLOSED GARAGE, THE MOTOR CONTROL CENTER(S) SHALL INCREASE THE EXHAUST VENTILATION RATE OF EF-3 THROUGH ITS ASSOCIATED VFD TO ITS MAXIMUM EXHAUST AIRFLOW RATE
- AS SCHEDULED ON THE EXHAUST FAN SCHEDULE. IF THE NO2 LEVELS CONTINUE TO RISE IN THE ENCLOSED GARAGE, AS DETECTED BY THE NO2 SENSORS LOCATED IN THE ENCLOSED GARAGE, THE MOTOR CONTROL CENTER(S) SHALL ENERGIZE THE MOTORIZED DAMPERS ON LOUVER L-2 AND SHALL OPEN THE DAMPER TO ALLOW 425 CFM OF OUTSIDE AIR INTO THE SPACE. EXHAUST FAN EF-4 SHALL BE ENERGIZED ON AND SHALL BE OPERATED IN CONJUNCTION WITH EF-3. EF-4'S
- ASSOCIATED VFD SHALL OPERATE THE EXHAUST FAN TO ITS MINIMUM EXHAUST AIRFLOW RATE OF 425 CFM. IF THE NO2 LEVELS CONTINUE TO RISE IN THE ENCLOSED GARAGE, AS DETECTED BY THE NO2 SENSORS LOCATED IN THE ENCLOSED GARAGE, THE MOTOR CONTROL CENTER(S) SHALL ENERGIZE THE MOTORIZED DAMPERS ON LOUVERS L-2 TO THE FULLY OPEN POSITION TO ALLOW FOR FULL FLOW THROUGH THE LOUVER
- AND SHALL INCREASE THE EXHAUST VENTILATION RATE OF EF-4 THROUGH ITS ASSOCIATED VFD TO ITS MAXIMUM EXHAUST AIRFLOW RATE AS SCHEDULED ON THE EXHAUST FAN SCHEDULE. ACTIVATE THE CONTROLLER'S HORN AND ALARM LED. ALL TWO EXHAUST FANS SHALL BE OPERATING AT FULL SPEED TO FLUSH WHEN THE NO2 LEVEL IN THE ENCLOSED GARAGE DROPS BELOW 3 PPM (OWNER ADJUSTED), DE-ENERGIZE
- WHEN THE NO2 LEVEL IN THE ENCLOSED GARAGE DROPS BELOW 3 PPM (OWNER ADJUSTED), DE-ENERGIZE THE
- MOTORIZED DAMPER ON LOUVER L-2 AND RETURN TO THE FULLY CLOSED POSITION.

MECHANICAL HVAC AND PIPING PLAN NOTES

- (1) CONNECT NEW 3/4" NATURAL GAS PIPING TO HVAC UNIT. CONTRACTOR SHALL CLEAN, PRIME, AND PAINT ALL NATURAL GAS PIPING AND WITH RUST INHIBITING PAINT. ARCHITECT TO SELECT COLOR. REFER TO HVAC UNIT NATURAL GAS HOOK UP DETAIL FOR CONNECTION REQUIREMENTS AND ADDITIONAL INFORMATION.
- (2) CONNECT NEW 3/4" NATURAL GAS PIPING TO HVAC UNIT. PROVIDE GAS PRESSURE REDUCING VALVE TO REDUCE INCOMING 2 PSI GAS PRESSURE TO 10" W.C., WITH MAXIMUM 2" DROP. VERIFY REQUIRED GAS PRESSURE WITH APPROVED EQUIPMENT. CONTRACTOR SHALL CLEAN, PRIME, AND PAINT ALL NATURAL GAS PIPING AND WITH RUST INHIBITING PAINT. ARCHITECT TO SELECT COLOR. REFER TO HVAC UNIT NATURAL GAS HOOK UP DETAIL FOR CONNECTION REQUIREMENTS AND ADDITIONAL INFORMATION.
- PROVIDE AND INSTALL 3/4" CONDENSATE DRAIN AND P-TRAP TO BE CONNECTED TO CASED COOLING COIL AND ROUTE DOWN THE SIDE OF THE FURNACE AND ALONG THE FLOOR FOR DISCHARGE OF CONDENSATE INTO FLOOR DRAIN. TERMINATE PIPING PER MANUFACTURERS RECOMMENDATIONS
- (4) ROUTE REFRIGERANT PIPING FROM CASED COOLING COIL AT HIGHEST POSSIBLE ELEVATION AND ROUTE DOWN WITHIN INTERIOR WALL AND THROUGH EXTERIOR WALL AT 3'-0" ABOVE GRADE FOR CONNECTION TO GROUND MOUNTED CONDENSING UNIT. CORE DRILL OPENINGS AS REQUIRED FOR PIPING PENETRATION AND SEAL WEATHER TIGHT. APPLY "UV" COATING TO ARMAFLEX INSULATION INTALLED OUTDOORS. PIPING AT WALL PENETRATION SHALL BE ENCASED IN A PROTECTIVE PIPE SLEEVE AND SHALL BE SEALED WEATHER TIGHT. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL REQUIRED REFRIGERANT LINESETS AND REFRIGERANT FOR CONNECTION FROM AIR HANDLER TO OUTDOOR UNIT AS REQUIRED FOR EXTENDED LENGTHS. INSTALL PIPING PER MANUFACTURERS
- (5) MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL A SERVICE TYPE REGULATOR TO REDUCE THE 2 PSI GAS PRESSURE TO 10"
- (6) PROVIDE AND INSTALL GAS FURNACE AND DX REFRIGERANT COIL IN LOCATION AS SHOWN. ROUTE DUCTWORK DOWN THROUGH FLOOR AND INTO CEILING SPACE ON FLOOR BELOW. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONTROL WIRING, RELAYS, AND ACCESSORIES AS REQUIRED TO INTERLOCK FURNACE AND ACCU FOR A COMPLETE AND FUNCTIONING SYSTEM. WIRING SHALL BE INSTALLED PER ELECTRICAL SPECIFICATIONS.
- (7) MAINTAIN MANUFACTURER REQUIRED CLEARANCE FOR SERVICE ACCESS AND PROPER PERFORMANCE. COORDINATE EXACT LOCATION
- (8) 3" SCHEDULE 40 PVC COMBUSTION AIR DUCT AND FLUE DUCT TO BE ROUTED FROM FURNACE AND UP FOR CONNECTION TO CONCENTRIC VENT KIT FOR TERMINATION THROUGH ROOF, PROVIDE AND INSTALL CONCENTRIC VENT KIT LIKE: DIVERSITECH - "CVENT SERIES", AND TERMINATE PER MANUFACTURERS RECOMMENDATIONS AND SEAL PENETRATION WATER TIGHT. VENT PIPING THAT IS ROUTED UP THROUGH ROOF AND EXPOSED TO THE EXTERIOR IS TO BE CLEANED AND PAINTED. ARCHITECT TO SELECT COLOR. REFER TO CONCENTRIC VENT TERMINATION DETAIL FOR ADDITIONAL INFORMATION.
- (9) PROVIDE AND INSTALL NEW SIDEWALL LOUVER. PROVIDE AND INSTALL BACKER ROD AND NON-SHRINKING CAULK AROUND THE PERMETER OF THE LOUVER FOR A WEATHER TIGHT INSTALLATION. CAULKING SHALL BE INSTALLED TO PREVENT THE INFILTRATION OF OUTDOOR AIR INTO THE BUILDING ENVELOPE. COORDINATE LOUVER ELEVATION WITH ARCHITECT PRIOR TO THE INITIATION OF WORK.
- (10) ROUTE 10"x10" OUTSIDE AIR DUCT DOWN FROM LOUVER FOR CONNECTION INTO RETURN AIR DUCT THAT IS CONNECTED TO THE FURNACE. INSTALL MANUAL BALANCE DAMPER IN EACH DUCT AND BALANCE TO OUTSIDE AIR CFM AS SHOWN ON THE FURNACE
- 11) PROVIDE AND INSTALL NEW TEMPERATURE SENSOR IN LOCATION SHOWN. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONTROL WIRING, RELAYS, AND ACCESSORIES AS REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM. WIRING SHALL BE INSTALLED PER ELECTRICAL SPECIFICATIONS.
- 12) 3"Ø FLUE AND 3"Ø COMBUSTION AIR DUCT TO BE ROUTED FROM GAS UNIT HEATER OUT THROUGH SIDEWALL AS SHOWN. PROVIDE AND INSTALL CONCENTRIC VENT KIT AND TERMINATE PER MANUFACTURERS RECOMMENDATIONS. SEAL PENETRATION WATER TIGHT. VENT PIPING THAT IS ROUTED OUT THROUGH WALL AND EXPOSED TO THE EXTERIOR IS TO BE CLEANED AND PAINTED. ARCHITECT TO SELECT COLOR. REFER TO CONCENTRIC VENT TERMINATION DETAIL FOR ADDITIONAL INFORMATION.
- 13) ROUTE 4"Ø COMBUSTION AIR FROM RADIANT TUBE HEATER OUT THROUGH EXTERIOR WALL AS SHOWN AND TERMINATE WITH MANUFACTURER RECOMMENDED WALL CAP (WC) WITH BIRD SCREEN. COORDINATE EXTERIOR WALL PENETRATION HEIGHT AND LOCATION WITH MANUFACTURERS RECOMMENDATIONS AND ARCHITECT. WALL CAP AND PIPING THAT IS ROUTED OUT THROUGH WALL AND EXPOSED TO THE EXTERIOR IS TO BE CLEANED AND PAINTED. ARCHITECT TO SELECT COLOR. REFER TO CONCENTRIC VENT TERMINATION DETAIL FOR ADDITIONAL INFORMATION.
- (14) RADIANT HEATER SHALL BE MOUNTED AT 17'-6" A.F.F. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED STEEL UNISTRUT AND 2"ANGLE IRON FRAMING AS REQUIRED FOR INSTALLATION PER THE MANUFACTURERS RECOMMENDATIONS AND
- (15) 4"Ø DOUBLE WALL B-VENT FLUE DUCT TO BE ROUTED UP THROUGH ROOF FOR CONNECTION TO MANUFACTURER PROVIDED 4-INCH ROOF TOP VENT KIT WHICH IS TO INCLUDE ROOFTOP VENT CAP, DRAFT HOOD CONNECTION, ROOFTOP FIRESTOP SPACER, ADJUSTABLE ROOFTOP FLANGE, STORM COLLAR, AND VENT TEE. FLUE DUCT IS TO BE EXTENDED FROM THE RADIANT TUBE HEATER AND ROUTED UP THROUGH THE ROOF ON THE BACK SIDE OF THE ROOF RIDGE. PROVIDE AND INSTALL ALL NECESSARY OFFSETS, TRANSITIONS, AND FITTINGS IN DUCTWORK AS REQUIRED FOR INSTALLATION. MECHANICAL CONTRACTOR SHALL CLEAN AND PAINT THE ROOF CAP, ARCHITECT IS TO SELECT COLOR
- (16) PROVIDE AND INSTALL SIDEWALL EXHAUST FAN WHERE INDICATED. COORDINATE EXTERIOR WALL PENETRATION HEIGHT AND LOCATION WITH MANUFACTURERS RECOMMENDATIONS AND ARCHITECT PRIOR TO THE INITIATION OF WORK...
- PROVIDE AND INSTALL A MOTORIZED DAMPER THAT DURING NORMAL OPERATION. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONTROL WIRING, RELAYS, AND ACCESSORIES AS REQUIRED TO INTERLOCK THE EXHAUST FAN AND THE FRESH AIR INTAKE LOUVER FOR A COMPLETE AND FUNCTIONING SYSTEM. WIRING SHALL BE INSTALLED PER ELECTRICAL SPECIFICATIONS. COORDINATE WITH ELECTRICAL CONTRACTOR. REFER TO SEQUENCE OF OPERATIONS.
- (18) REFER TO EXHAUST FAN SECTION

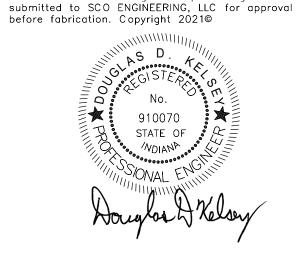
RECOMMENDATION.



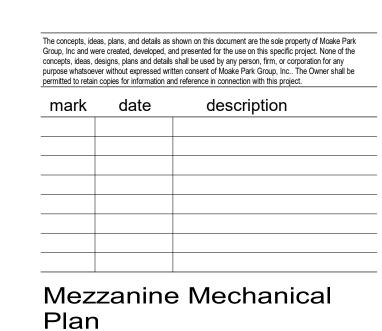
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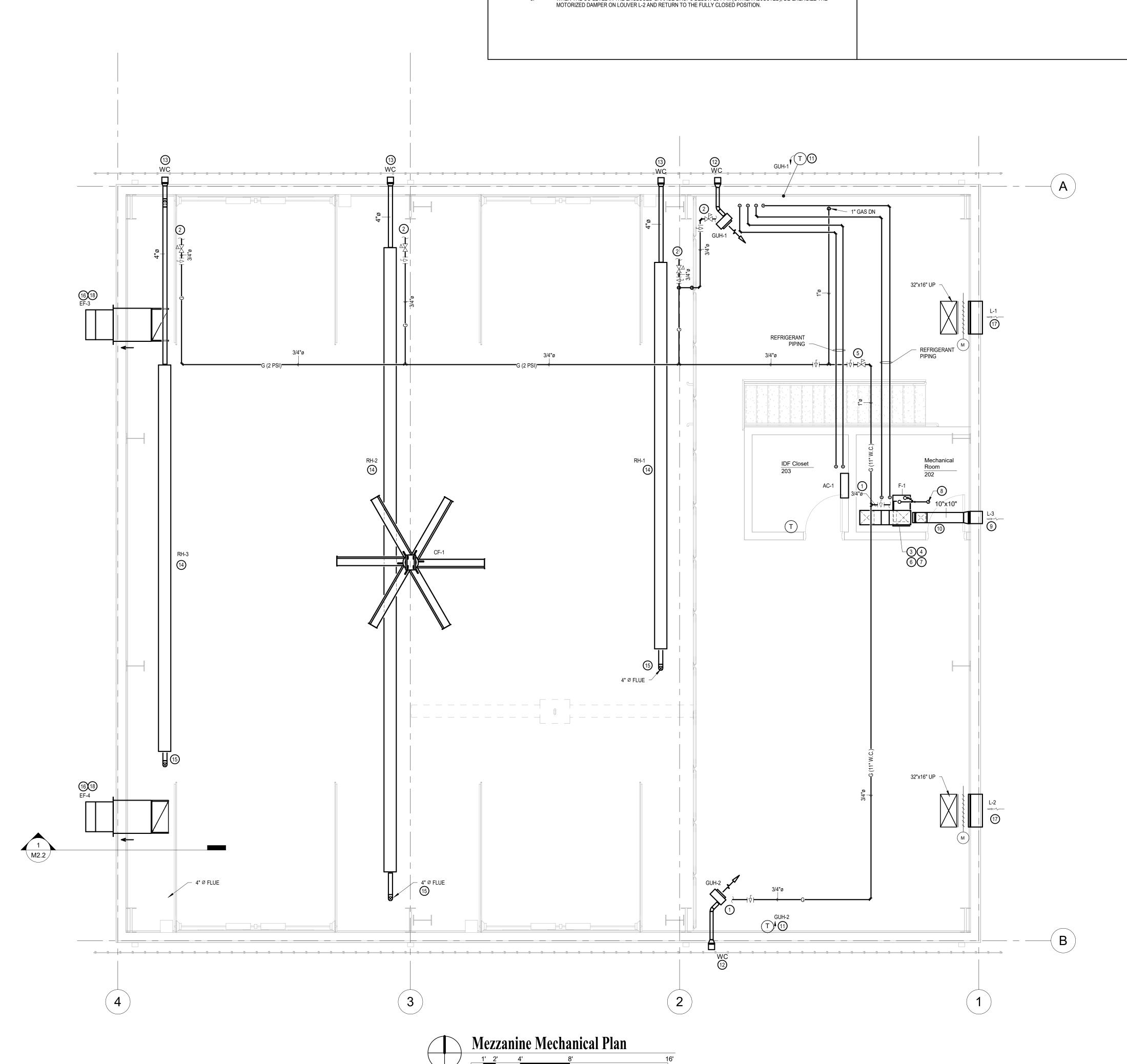


date: March 2, 2022 project: 473003 (212600) coordinator: SJB M2.2drawn: TEH

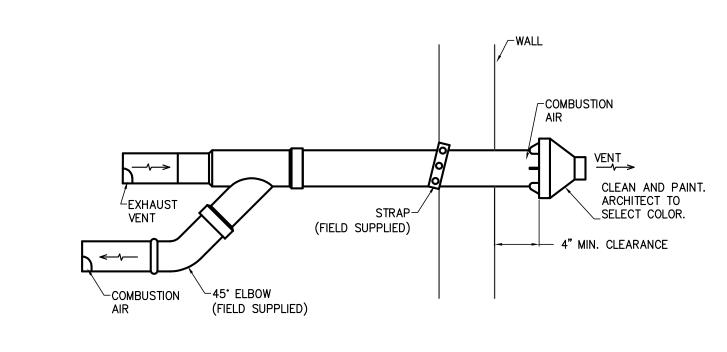
checked: DDK

1 Exhaust Fan Section

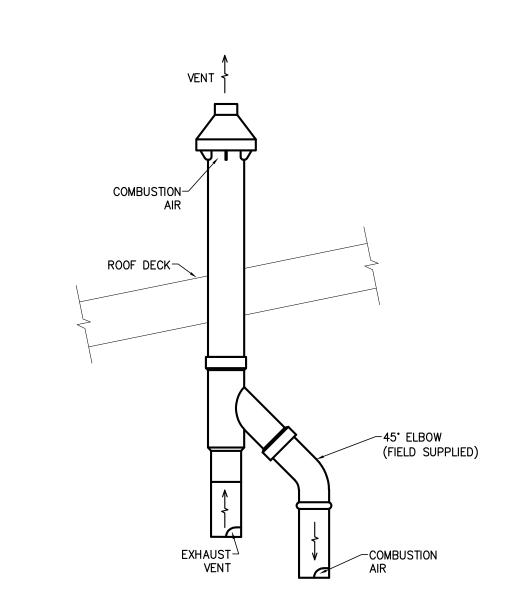
1/4" = 1'-0"



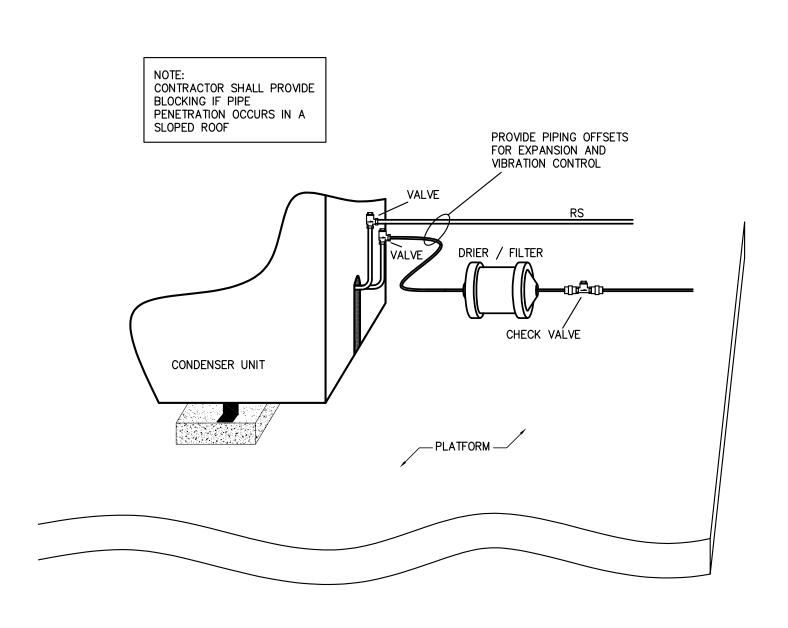




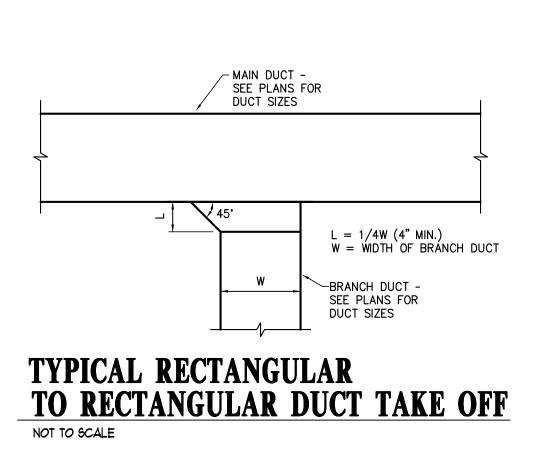
CONCENTRIC VENT TERMINATION DETAIL NOT TO SCALE

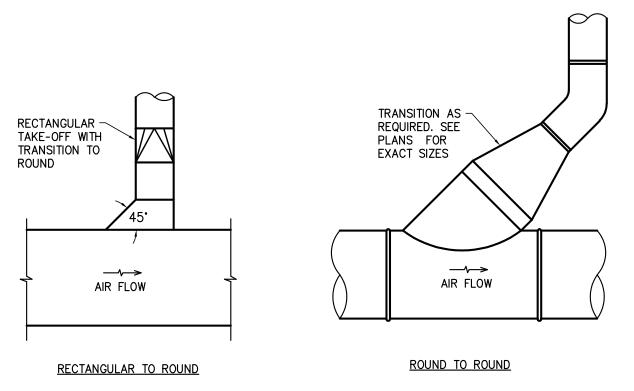


CONCENTRIC VENT TERMINATION DETAIL NOT TO SCALE

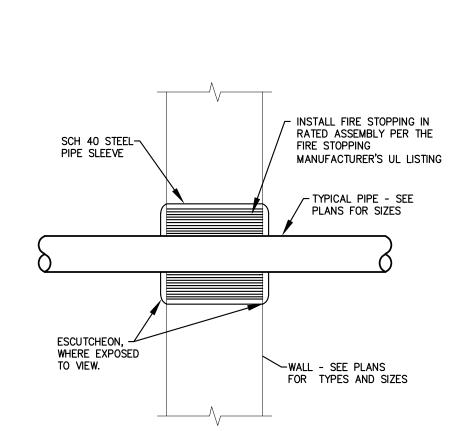


REFRIGERANT PIPING DETAIL NOT TO SCALE





TYPICAL DUCT TAKE-OFF



HVAC UNIT NATURAL GAS HOOK UP DETAIL

-EQUIPMENT

FROM

METER _ COCK

NOT TO SCALE

TYPICAL PIPING FIRE WALL OR **CEILING PENETRATION DETAIL** NOT TO SCALE

PURLINS (SEE MANUFACTURER

FRAMING DETAIL)

3/4" HANGER RODS

UNIT HEATER & HANGER DETAIL

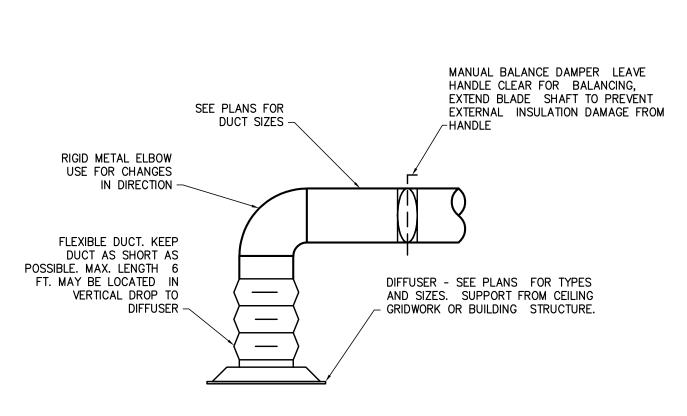
NOT TO SCALE (VERIFY HANGER DETAIL W/ MANUFACTURERS DETAILS)

COMBUSTION AIR-

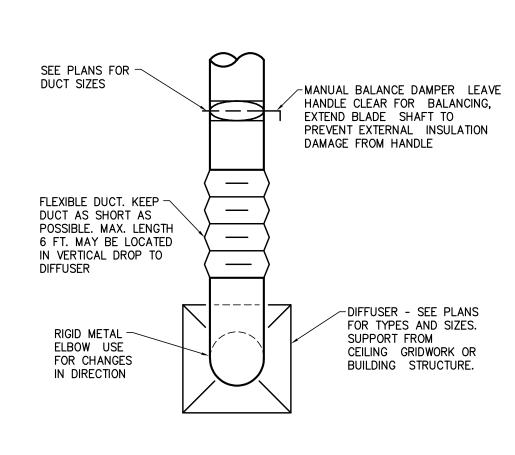
BOLT RODS TO ~ 4" CHANNEL

BOLT RODS -TO HEATER

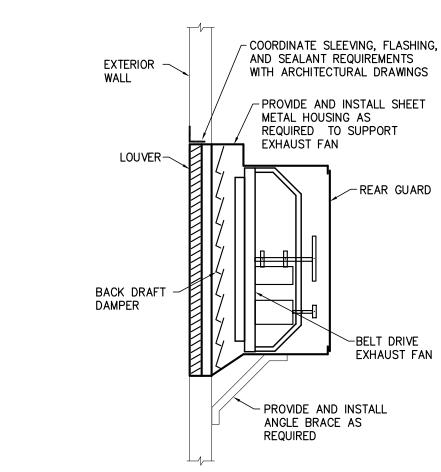
GAS COCK-



TYPICAL CEILING DIFFUSER INSTALLATION DETAIL NOT TO SCALE

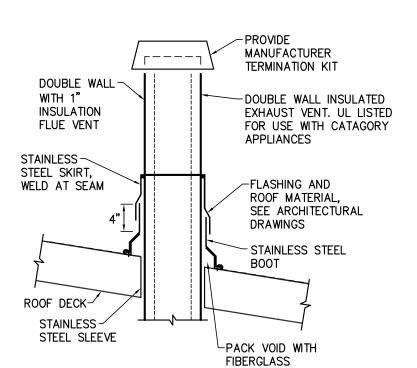


TYPICAL CEILING DIFFUSER INSTALLATION DETAIL NOT TO SCALE

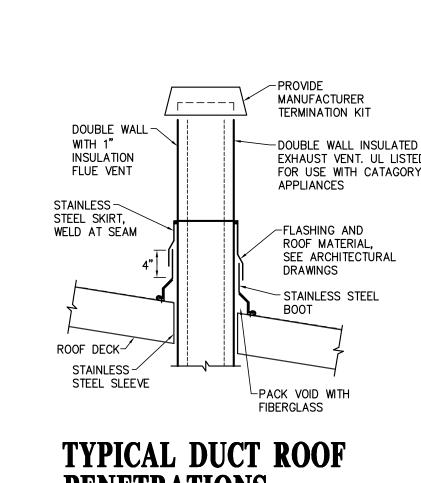


SIDEWALL EXHAUST FAN DETAIL NOT TO SCALE

-REAR GUARD

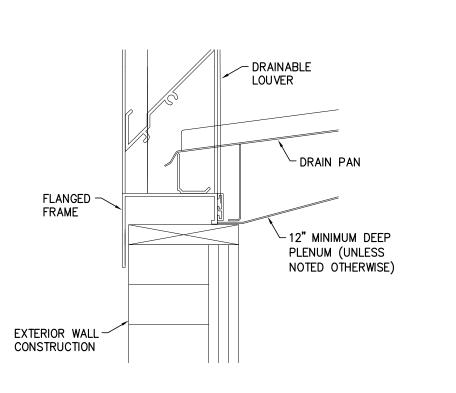


PENETRATIONS NOT TO SCALE

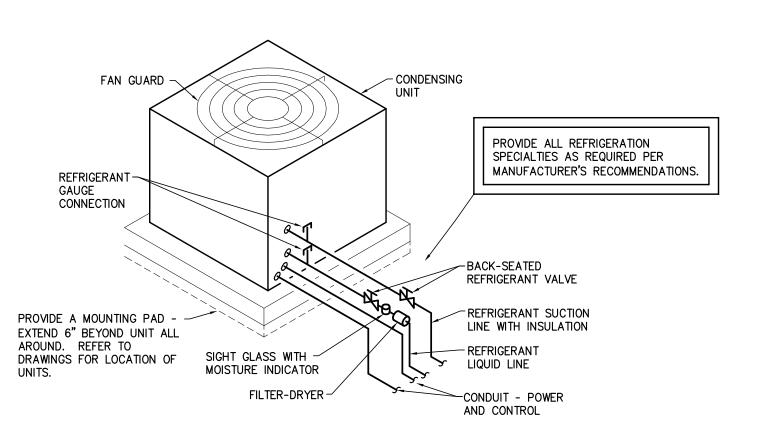


-12" MINIMUM DEEP PLENUM (UNLESS NOTED OTHERWISE) EXTERIOR WALL CONSTRUCTION

LOUVER PLENUM SECTION NOT TO SCALE



LOUVER PLENUM SECTION ENLARGED PLAN NOT TO SCALE

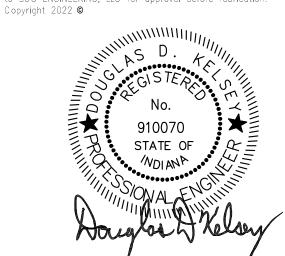


TYPICAL ACCU - SLAB MOUNTED AT GRADE NOT TO SCALE





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| mark | date | description |
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| date: | March 2, 2022 | |
|--------------|-----------------|------|
| project: | 473003 (212600) | |
| coordinator: | SJB | |
| drawn: | TEH | M5.1 |
| checked: | DDK | |

| | MECHANICAL EQUIPMENT |
|--|--|
| -1 | |
| PE: NUFACTURER: DEL: PACITY: | COOLING UNIT - SPLIT DX SYSTEM DAIKIN FTX09NMVJU (INDOOR WALL HUNG UNIT) 9000 BTU COOLING 13000 BTU HEATING |
| OVIDE AND INSTALL WITH: | ALL REQUIRED MOUNTING ACCESSORIES AND HARDWARE FACTORY INSTALLED BUILT-IN DRAIN MECHANISM FOR CONDENSATE REMOVAL /PUMP INSULATED CONDENSATE PIPING TO LOCATION SHOWN PROVIDE WITH WIRED REMOTE CONTROLLER PROVIDE POWER FAILURE AUTOMATIC RESTART. CONDENSATE PUMP FACTORY MOUNTED INSIDE UNIT LIKE DACA-CP1-1 |
| CTRICAL: CATION: | 208-230V / 1 / 60 IDF CLOSET |
| CU-2 | |
| PE: NUFACTURER: DEL: PACITY: JIPMENT SERVED: DVIDE AND INSTALL WITH: | CONDENSING UNIT DAIKIN RX09NMVJU (OUTDOOR UNIT) 9000 BTU COOLING 13000 BTU HEATING AC-7 INSULATED REFRIGERANT LINESET (FIELD INSTALL PER MANUFACTURERS RECOMMENDATIONS) PROVIDE UNIT WITH R410 A REFRIGERANT |
| CTRICAL: CATION: | WALL MOUNT BRACKET AND ALL REQUIRED HARDWARE. NEMA 3R DISCONNECT SWITCH 208-230V / 1 / 60 OUTSIDE |

| | FURNACE SCHEDULE | | | | | | | | | | | | | | | | | | | | |
|---------|---|-----------------|--------|----------|-------|------|--------|-----------|-----------|---------------|--------------|-----------------------|------------|------------|---------|-------|--------------|-----|---------------|---------|---------|
| | | | | AIR FLOW | (CFM) | | BLOWER | | | COOLING | | | HEATII | NG | | | ELECTRICAL | | FILTER ME | DIA | |
| TAG | MFG | MODEL | SUPPLY | RETURN | OA | ESP | HP | MBH (TOT) | MBH (SEN) | COIL EA DB/WB | OA EAT DB/WB | INPUT MBH (MAX / MIN) | OUTPUT MBI | H (MAX / M | N) FUEL | AFUE% | VOLT/PH/HZ | MOP | TYPE | EFF (%) | REMARKS |
| F-1 | YORK | YP9C080B12MP13C | 1200 | 1000 | 200 | 0.5" | 1/2 | 32.6 | 25.1 | 76 / 65 | 83 / 71 | 80 / 28 | 77 | / 27 | N. GAS | 97.5 | 115 / 1 / 60 | 15 | HIGH VELOCITY | MERV. 8 | 1, 2, 3 |
| | | | | | | | | | | | · | · | | | | | | | | | |
| REMARKS | EMARKS: | | | | | | | | | | | | | | | | | | | | |
| 1. PRO\ | PROVIDE UNIT WITH MODULATING GAS VALVE, STAINLESS STEEL BURNER, VARIABLE- SPEED ECM BLOWER, CONDENSATE NEUTRALIZATION KIT, SIDE RETURN FILTER RACK, AND 3" CONCENTRIC VENT KIT. | | | | | | | | | | | | | | | | | | | | |

PROVIDE AND INSTALL UNIT WITH CASED COOLING COIL AND ALL REQUIRED REFRIGERANT LINE SETS, AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.

PROVIDE WITH HONEYWELL VISION PRO 8000 TOUCH SCREEN PROGRAMABLE THERMOSTAT AND LOCKABLE THERMOSTAT GUARD LIKE HONEYWELL MODEL# CG512A.

| | CONDENSING UNIT SCHEDULE | | | | | | | | | | | | |
|----------|--------------------------|-----------|-----------|--------------|---------|----------|----------|-------------|----------------|----------|-----|---------|--|
| | | | EQUIPMENT | NOM CAPACITY | AMBIENT | MIN EFF. | CAPACITY | COMPRESSORS | El | ECTRICAL | | REMARKS | |
| TAG | MFG | MODEL | SERVED | (TONS) | (F) | (SEER) | STEPS | | VOLT / PH / HZ | MCA | MOP | | |
| ACCU-1 | YORK | YXV36B21S | F-1 | 3 | 105 | 20 | VARIABLE | 1 | 208 / 1 / 60 | 25.7 | 40 | 1, 2 | |
| | | | | | | | | | | | | | |
| REMARKS: | MARKS: | | | | | | | | | | | | |

PROVIDE UNIT WITH VARIABLE SPEED COMPRESSOR WITH CRANKCASE HEATER FOR LOAD MATCHING CAPABILITY, COMPRESSOR SOUND BLANKET, AND HAIL GUARD. PROVIDE UNIT WITH TXV, LINESET AND R-410A REFRIGERANT. CONTRACTOR SHALL CONFIRM LINE SET SIZES WITH MANUFACTURER AND PROVIDE AND INSTALL AS REQUIRED.

| | LOUVER SCHEDULE | | | | | | | | | | | | |
|-----|---|---------|---------------|-----------|-------|------|-------|----------|---------|--------|----------|--------|---------|
| | SIZE FREE AREA AIR FLOW MAX PD MAX VEL. EQUIPMENT | | | | | | | | | | | | |
| TAG | MANUFACTURER | MODEL | (IN) | (SQ. FT.) | (CFM) | (IN) | (FPM) | FUNCTION | FRAME | FINISH | MATERIAL | SERVED | REMARKS |
| L-1 | GREENHECK | ESD-635 | 32" W X 30" H | 3.39 | 2,125 | 0.06 | 630 | INTAKE | FLANGED | KYNAR | ALUMINUM | GARAGE | 1, 2, 3 |
| L-2 | GREENHECK | ESD-635 | 32" W X 30" H | 3.39 | 2,125 | 0.06 | 630 | INTAKE | FLANGED | KYNAR | ALUMINUM | GARAGE | 1, 2, 3 |
| L-3 | L-3 GREENHECK EDD-401 12" W X 12" H 0.34 200 0.06 600 INTAKE FLANGED KYNAR ALUMINUM F-1 2, 3, 4 | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

1. PROVIDE AND INSTALL FLANGED LOUVER WITH MOTORIZED DAMPER, EXTENDED SILL, AND ALUMINUM BIRD SCREEN INSTALLED ON THE FACE OF THE LOUVER. BIRD SCREEN IS TO BE PAINTED TO MATCH THE LOUVER. MOTORIZED DAMPERS ARE TO BE INTERLOCKED WITH THE OPERATION OF THE WALL MOUNTED EXHAUST FANS SO THAT THE DAMPERS OPEN WHEN THE FANS ARE ENERGIZED AND OPERATING.

CONTRACTOR SHALL PROVIDE CAULK, BACKER ROD, INSULATION AND NON-SHRINK GROUT AS REQUIRED TO PROVIDE A WEATHER TIGHT INSTALLATION. 3. CUSTOM COLOR AS SELECTED BY ARCHITECT FROM MANUFACTURERS FULL LINE OF COLOR CHOICES.

4. PROVIDE AND INSTALL FLANGED LOUVER WITH EXTENDED SILL, AND ALUMINUM BIRD SCREEN INSTALLED ON THE FACE OF THE LOUVER. BIRD SCREEN IS TO BE PAINTED TO MATCH THE LOUVER.

| EXHAUST/VENTILATION FAN SCHEDULE | | | | | | | | | | | | |
|----------------------------------|-----------|-----------------|------|-------|------------|------|-------|---------|---------------|-------------|------------|--|
| TAG | MFG | MODEL | CFM | SP | HP (WATTS) | RPM | SONES | ELECT | OPERATION | AREA SERVED | REMARKS | |
| EF-1 | GREENHECK | SP-110-VG | 100 | 0.375 | (8W) | 940 | 0.3 | 115 / 1 | LIGHT SWITCH | RR 103 | 1, 2 | |
| EF-2 | GREENHECK | SP-110-VG | 100 | 0.375 | (8W) | 940 | 0.3 | 115 / 1 | LIGHT SWITCH | RR 105 | 1, 2 | |
| EF-3 | GREENHECK | AER-E24C-615-VG | 2125 | 1 | 2 | 1447 | 28.0 | 208 / 1 | MOTOR STARTER | REPAIR BAYS | 5, 6, 7, 8 | |
| EF-4 | GREENHECK | AER-E24C-615-VG | 2125 | 1 | 2 | 1447 | 28.0 | 208 / 1 | MOTOR STARTER | REPAIR BAYS | 5, 6, 7, 8 | |
| | · | | | | | | | | | | | |

PROVIDE WITH INTERNAL MOUNTED SPEED CONTROL, DISCONNECT SWITCH, ALUMINUM EXHAUST GRILLE WITH WASHABLE ALUMINUM MESH FITLER, ALUMINUM

BACKDRAFT DAMPER, HANGING VIBRATION ISOLATORS, AND HOODED WALL CAP. PROVIDE WITH CEILING RADIATION DAMPER AND ALL REQUIRED MOUNTING HARDWARE FOR INSTALATION INTO HARD LID CEILING.

PROVIDE UNIT WITH ALUMINUM CONSTRUCTTION AND ECM MOTOR WITH MOTOR MOUNTED SPEED CONTROL SWITCH. PROVIDE AND INSTALL UNIT WITH BACKDRAFT DAMPER, FLEXIBLE DUCT CONNECTORS, HANGING SPRING VIBRATION ISOLATORS, AND FACTORY WIRED DISCONNECT SWITCH.

PROVIDE AND INSTALL UNIT WITH 45° TURN DOWN WEATHERHOOD WITH BIRDSCREEN AND PAINTED FINISH, BACKDRAFT DAMPER, AND WALL HOUSING. PROVIDE AND INSTALL UNIT WITH ECM MOTOR WITH 0-10 VDC INPUT AND TWO SPEED CONTROL WITH INTEGRAL TRANSFORMER, RELAYS, ACCESSORIES, AND

INTERCONNECTING WIRING FOR A COMPLETE AND FUNCTIONING SYSTEM. PROVIDE AND INSTALL UNIT WITH FACTORY PROVIDED MOTOR STARTER LIKE GREENHECK MODEL MSAC' WITH HAND/OFF/AUTO KEYPAD, LED POWER INDICATORS,

DISCONNECT, END SWITCHES AND RELAYS FOR DAMPER CONTROL, AND OVERLOAD PROTECTION. 45° TURN DOWN WEATHERHOOD IS TO BE PAINTED A CUSTOM COLOR AS SELECTED BY ARCHITECT FROM MANUFACTURERS FULL LINE OF COLOR CHOICES.

| | GAS UNIT HEATER | | | | | | | | | | | | |
|-------|-----------------|--------|-------|--------|-------|-----|-------|---------|-----------|---------|--|--|--|
| | | | INPUT | OUTPUT | | | MOTOR | | | | | | |
| TAG | MFG | MODEL | (MBH) | (MBH) | FUEL | CFM | HP | ELECT | LOCATION | REMARKS | | | |
| GUH-1 | MODINE | HDS-45 | 45 | 36.9 | N. G. | 720 | 1/15 | 120 / 1 | MEZZANINE | 1, 2, 3 | | | |
| GUH-2 | MODINE | HDS-45 | 45 | 36.9 | N. G. | 720 | 1/15 | 120 / 1 | MEZZANINE | 1, 2, 3 | | | |
| | | | | | | | | | | | | | |

. PROVIDE AND INSTALL UNIT WITH SINGLE-STAGE GAS VALVE, VERTICAL DEFLECTOR BLADES, VIBRATION ISOLATION KIT, AND SINGLE-STAGE THERMOSTAT. 2. PROVIDE AND INSTALL UNIT WITH HORIZONTAL CONCENTRIC VENT KIT WITH OUTLET VENT VENT ADAPTER BOX, TERMINATION CAP AND INLET AIR GUARD. 3. PROVIDE AND INSTALL UNIT WITH 30° DOWNWARD DEFLECTOR HOOD.

| | DIFFUSER SCHEDULE | | | | | | | | | | | | |
|------|-------------------|-------|-----------|-----------|----------|---------|-------------------|--------|-----------------|----------|---------|--|--|
| TAG | MFG | MODEL | NECK | FACE | PATT | MAX CFM | MAX PD (TOTAL) | MAX NC | THROW (FEET) | MATERIAL | REMARKS | | |
| D-1 | TITUS | TMS | 8" | 24" x 24" | 4-WAY | 280 | 0.06 | 20 | 11 | STEEL | 1, 2 | | |
| RG-1 | TITUS | 50F | 10" x 10" | 12" x 12" | EGGCRATE | 295 | 0.04 | 20 | _ | ALUMINUM | 1, 2 | | |
| RG-2 | TITUS | 50F | 22" x 22" | 24" x 24" | EGGCRATE | 2200 | 0.07 | 20 | - | ALUMINUM | 1, 2 | | |
| | | | | | | · | | | | | | | |

PROVIDE ALL NECESSARY TRIM AND BORDERS FOR INSTALLATION INTO CEILING TYPES AND WALLS. REFER TO ARCHITECTURAL

DRAWINGS FOR ROOM FINISHES. PROVIDE AND INSTALL DUCT TRANSITION FITTINGS AS REQUIRED FOR CONNECTION TO DIFFUSERS AND GRILLES.

| | RADIANT HEATER SCHEDULE | | | | | | | | | | | |
|------|-------------------------|------------|--------|----------------|-------|---------|-------------|---------------|--|--|--|--|
| | | | LENGTH | INPUT | | | | | | | | |
| TAG | MFG | MODEL | (FT) | (HIGH/LOW MBH) | FUEL | ELECT. | AREA SERVED | REMARKS | | | | |
| RH-1 | DETROIT RADIANT | HL3-30-125 | 31'-5" | 125 / 82 | N. G. | 120 / 1 | GARAGE | 1, 2, 3, 4, 6 | | | | |
| RH-2 | DETROIT RADIANT | HL3-50-200 | 50'-9" | 200 / 145 | N. G. | 120 / 1 | GARAGE | 1, 2, 3, 5, 6 | | | | |
| RH-3 | | | | | | | | | | | | |
| | | | | | | | | | | | | |

PROVIDE AND INSTALL 2-STAGE LOW INTENSITY TUBE HEATER WITH 2-STAGE GAS VALVE, AIR PROVING SAFETY SWITCH, ALL REQUIRED TRANSFORMERS AND RELAYS, AND 2-STAGE DOUBLE THROW THERMOSTAT.

PROVIDE UNIT WITH TOTALLY ENCLOSED BURNER BOX THAT INCLUDES SIGHT GLASS AND INDICATOR LIGHTS. PROVIDE AND INSTALL UNIT WITH POLISHED ALUMINUM REFLECTOR, END CAPS, AND ALL REQUIRED ADDITIONAL ACCESSORIES REQUIRED FOR

INSTALLING HEATER AT 0° MOUNTING ANGLE. PROVIDE UNIT WITH 4"? SIDE WALL COMBUSTION AIR INTAKE WITH WALL INLET CAP WITH BIRDSCREEN, 4"? ROOFTOP VENT PACKAGE KIT, ANGLE MOUNTING BRACKETS, ROOFTOP FLASHING, TUBE HEATER CHAIN SETS AND ALL ADDITIONAL ACCESSORIES AS REQUIRED FOR

INSTALLATION OF A FULLY FUNCTIONING SYSTEM.

PROVIDE UNIT WITH 4"? SIDE WALL COMBUSTION AIR INTAKE WITH WALL INLET CAP WITH BIRDSCREEN, DUAL EXHAUST 'Y' ASSEMBLY, AND 6"? ROOFTOP VENT PACKAGE KIT, AND ALL ACCESSORIES REQUIRED TO COMMON VENT TWO HEATERS, OPTIONAL RELAY PICKERS, ANGLE MOUNTING

BRACKETS, ROOFTOP FLASHING, TUBE HEATER CHAIN SETS AND ALL ADDITIONAL ACCESSORIES AS REQUIRED FOR INSTALLATION OF A FULLY FUNCTIONING SYSTEM. BOTTOM OF TUBE HEATER IS TO BE MOUNTED AT APPROXIMATELY 17'-6" A.F.F.

| | | | F | AN SCH | HEDUL | .E | | |
|------|-----------|---------|---------|------------|---------|---------|-------------|---------------|
| TAG | MFG | MODEL | DIA. FT | HP (WATTS) | ELECT | CONTROL | AREA SERVED | REMARKS |
| AF-1 | GREENHECK | DS-3-12 | 12 | 3/4 | 208 / 1 | VSD | REPAIR BAY | 1, 2, 3, 4, 5 |
| | | | | | | | | |

1. PROVIDE AND INSTALL UNIT WITH DIRECT DRIVE MOTOR, VARIABLE FREQUENCY DRIVE, LCD DISPLAY KEYPAD CONTROLLER, FIRE RELAY, GUY WIRE KIT, AND FACTORY INSTALLED FUSED DISCONNECT SWITCH.

PROVIDE FANS WITH ALUMINUM AIRFOIL BLADES. PROVIDE UNIT WITH EXTENDED LENGTH CAT-5e CABLE TO ALLOW FOR THE KEYPAD CONTROLLER TO BE MOUNTED ON THE

WALL BETWEEN THE OVERHEAD DOORS. PROVIDE WITH MOUNTING KIT AND DOWN ROD EXTENTION AS REQUIRED FOR BLADES TO MISS ROOF JOISTS AND DUCTWORK. ARCHITECT IS TO SELECT THE FINISH / COLOR(S) OPTIONS FOR THE FAN FROM THE MANUFACTURERS FULL LINE OF COLORS.

CABINET AND UNIT HEATER SCHEDULE

| | OADINE! AND ON!! HEATER OOI IEDOEE | | | | | | | | | | | | |
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| | | | | | AIR | | | | | | | | |
| TAC | G MFG | MODEL | TYPE | BTU/H | (CFM) | WATTS | ELECT | LOCATION | REMARKS | | | | |
| ECUH | l-1 BERKO | CUH935 | RECESSED / UPFLOW | 6826 | 250 | 2 KW | 208/1 | VESTIBULE 100 | 1, 2, 3, 6 | | | | |
| | | | | | | | | | | | | | |
| EUH | -1 BERKO | HUH524TA | SUSPENDED | 6396 | 270 | 1.9 KW | 208/1 | PARTS 108 | 2, 5, 6 | | | | |
| EUH- | -2 BERKO | HUH524TA | SUSPENDED | 6396 | 270 | 1.9 KW | 208/1 | WATER 110 | 2, 5, 6 | | | | |
| EUH- | -3 BERKO | HUH524TA | SUSPENDED | 6396 | 270 | 1.9 KW | 208/1 | ELECTRICAL 109 | 2, 5, 6 | | | | |

CUSTOM COLOR AS SELECTED BY THE ARCHITECT.

PROVIDE AND INSTALL WITH DISCONNECT SWITCH. PROVIDE AND INSTALL WITH WALL RECESSED TRIM KIT. PROVIDE AND INSTALL WITH CEILING RECESSED TRIM KIT.

PROVIDE AND INSTALL WITH MANUFACTURER SUPPLIED CEILING / WALL MOUNTING FRAME AND HARDWARE. PROVIDE WITH INTEGRAL THERMOSTAT.

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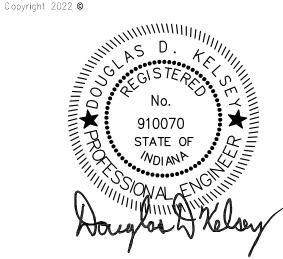
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Mechanical Schedules

date: March 2, 2022 project: 473003 (212600) coordinator: SJB drawn: TEH

checked: DDK

THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW, COORDINATE AND INCLUDE ALL DIVISION 23 WORK INDICATED ON ANY OF THE PROJECT DRAWINGS AS WORK OF THIS PROJECT, TO INCLUDE BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, PLUMBING, MECHANICAL, DRAWINGS, ETC.

COORDINATE ROUTING OF ALL DUCTWORK AND PIPING WITH ELECTRICAL PANEL LOCATIONS. DO NOT ROUTE DUCTWORK OR PIPING OVER ELECTRICAL PANELS AND PROVIDE ALL WORKING CLEARANCES PER ELECTRICAL CODE. COORDINATE ROUTING WITH ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL DRAWINGS FOR PANEL LOCATIONS.

THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL THROUGH PENETRATION FIRESTOP SYSTEMS AS REQUIRED TO SEAL WHERE PIPING AND DUCTWORK PENETRATES A FIRE RATED WALL, FLOOR, OR OTHER LISTED ASSEMBLY. THE MECHANICAL CONTRACTOR IS TO REVIEW LIFE SAFETY, AND ALL OTHER ARCHITECTURAL, DRAWINGS FOR THE EXACT LOCATION OF FIRE RATED ASSEMBLIES.

CONTRACTOR SHALL CLEAN AND PAINT ALL ROOF MOUNTED MECHANICAL EQUIPMENT AND VENT PIPING. ARCHITECT TO SELECT COLOR.

MECHANICAL HVAC SYMBOL SCHEDULE M ACTUATOR ----- EXISTING MECHANICAL EQUIPMENT AND DUCTWORK TO REMAIN ◆ TIE-IN ----- NEW MECHANICAL DUCTWORK —— MANUAL AIR BALANCING DAMPER NEW MECHANICAL EQUIPMENT MANUAL OPPOSED BLADE DAMPER ACCU- AIR COOLED CONDENSING UNIT **** BACKDRAFT DAMPER AFMS- AIR FLOW MEASURING STATION FLEXIBLE DUCT AHU- AIR HANDLING UNIT TE ELECTRIC THERMOSTAT AS- AIR SEPARATOR DP PNUEMATIC THERMOSTAT B- BOILER \bigcirc_{S} TEMPERATURE SENSOR CUH- CABINET UNIT HEATER SECURITY THERMOSTAT D- DIFFUSER HUMIDISTAT DC- DUCT COIL S SMOKE SENSOR EF- EXHAUST FAN SHUT-OFF TERMINAL BOX EG- EXHAUST GRILLE SHUT-OFF TERMINAL BOX W/ REHEAT ER- EXHAUST REGISTER ET- EXPANSION TANK DIFFUSER FD- FIRE DAMPER FTR- FINNED TUBE RADIATION EXHAUST OR RETURN GRILLE H- HUMIDIFIER DUCT COIL HVAC- HEATING VENTILLATION AIR CONDITIONING UNIT FAN POWERED VAV BOX WITH REHEAT HX- HEAT EXCHANGER L- LOUVER DUCT WORK (UNLINED) P- PUMP ____ DUCT WORK (LINED) RAD- ELECTRIC RADIATION DUCT WORK (DOUBLE WALL / PERFORATED INNER) RC- ROOF CAP RF- RELIEF FAN RG- RETURN AIR GRILLE RR- RETURN REGISTER RTU- ROOFTOP UNIT RV- RELIEF VENT

GENERAL MECHANICAL NOTES

COORDINATE ALL WORK WITH OTHER TRADES AS REQUIRED.

EQUIPMENT, PIPING, AND DUCTWORK LAYOUTS ARE SCHEMATIC IN NATURE. CONTRACTOR MUST ADJUST TO FIELD CONDITIONS AND COORDINATE WITH OTHER TRADES DURING CONSTRUCTION BY ADDING OFFSETS AND ELBOWS WHERE

SF- SUPPLY FAN

TB- TERMINAL BOX

UH- UNIT HEATER UV- UNIT VENTILATOR

XX"xXX"Ø FLAT OVAL DUCT

XX"xXX" RECTANGULAR DUCT X"ø ROUND DUCT

SR- SUPPLY REGISTER

TG- TRANSFER AIR GRILLE

A.F.F. ABOVE FINISHED FLOOR

VAV- VARIABLE AIR VOLUME TERMINAL BOX

PRIOR TO INSTALLATION THE ENGINEER SHALL APPROVE ALL PROPOSED MODIFICATIONS TO DUCTWORK LAYOUT AND

ALL SUPPLY AIR DUCTWORK (OTHER THAN THAT SHOWN TO BE LINED) SHALL BE INSULATED (WRAPPED) PER

ALL MATERIALS INSTALLED WITHIN PLENUM SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25, SMOKE DEVELOPED RATING NOT EXCEEDING 50 IN ACCORDANCE WITH STATE CODES.

COORDINATE EXACT LOCATION OF CEILING DIFFUSERS AND GRILLES WITH LIGHTS AND ARCHITECTURAL CEILING PLAN. FLEXIBLE DUCT SHALL BE USED WHERE INDICATED, FOR STRAIGHT LINE SEGMENTS NOT EXCEEDING 6 FEET WHEN CONNECTING DIFFUSERS TO RIGID DUCTWORK ABOVE A REMOVABLE CEILING. USE RIGID METAL ELBOWS FOR CHANGES

THIS CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIAL, AND LABOR REQUIRED FOR CORE DRILLING AS REQUIRED FOR INSTALLATION OF MATERIAL PENETRATING BUILDING CONSTRUCTION.

REFERENCE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, TYPICAL.

ALL SIZES ON DUCTWORK ARE IN INCHES UNLESS NOTED OTHERWISE.

SHEET METAL CONTRACTOR SHALL FABRICATE ALL DUCT TAKE-OFF FITTINGS AS SHOWN ON CONTRACT DETAIL SHEET. DUCT SIZES LISTED ARE "FREE AREA" AND SHALL NOT BE REDUCED. INCREASE DUCT SIZES AS REQUIRED TO ACCOUNT

ALL EQUIPMENT AND MATERIALS SHALL BE UL LISTED AND LABELED FOR TYPE OF EQUIPMENT AND MATERIALS FOR WHICH LISTING AND LABELING IS AVAILABLE.

GENERAL CONDITIONS NOTE

ALL CONTRACTORS, BY MAKING THEIR BID, REPRESENT THAT THEY HAVE READ AND UNDERSTAND THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL <u>REFER TO THE ENTIRE CONSTRUCTION DOCUMENT SET</u> FOR GUIDANCE ON DIMENSIONS, HEIGHTS, DETAILING, ETC. AND INSTALL THEIR WORK SO AS NOT TO INTERFERE WITH THE INSTALLATION OF ANOTHER DISCIPLINE'S WORK OR THE **GENERAL INTENT** OF THE CONSTRUCTION DOCUMENTS. IN THE EVENT OF A CONFLICT BETWEEN THE SPECIFICATIONS AND/ OR DRAWINGS, THE ARCHITECT SHALL DETERMINE WHICH INFORMATION GOVERNS.

M/P/E TRADES **NOTE**: IN REFERRING TO THIS SHEET YOU ACKNOWLEDGE: 1.) REVIEWING THE **ENTIRE** DRAWING SET INCLUDING ALL 'S', 'C' & 'A' SERIES.

2.) COORDINATING WITH THE GENERAL TRADES CONTRACTOR OR C.M. FOR EXACT DETAILING, HEIGHTS, ETC. **PRIOR** TO INSTALLING WORK.

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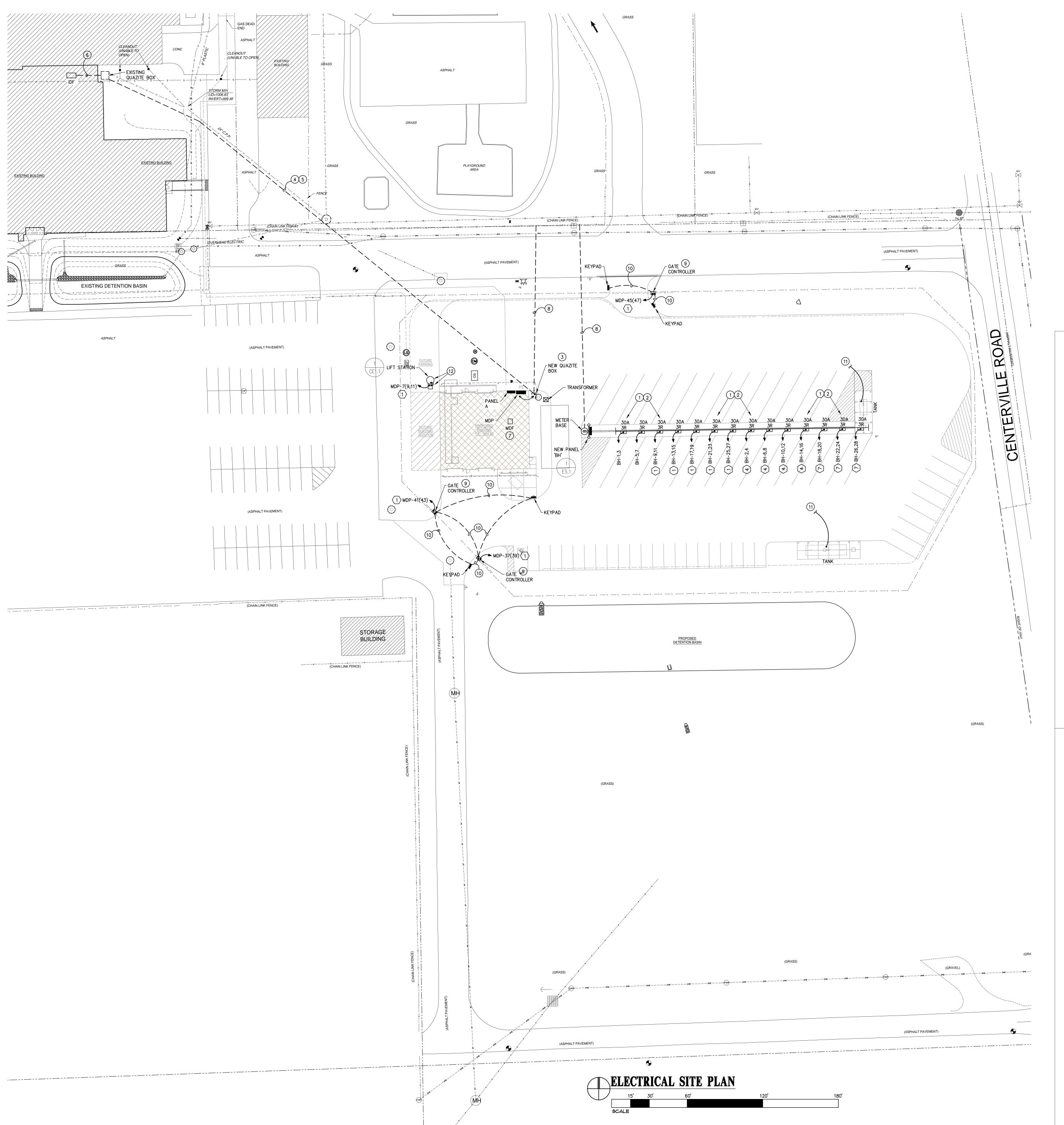
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Notes

date: March 2, 2022 project: 473003 (212600) coordinator: SJB MG1.0 drawn: TEH checked: DDK



- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 30A NEMA 3R METAL ENCLOSURE WITH (2)-20A/120V GFCI DUPLEX RECEPTACLES. ENCLOSURE SHALL BE MOUNTED ON BUS STOP BARRIERS, EACH RECEPTACLE SHALL BE A DEDICATED CIRCUIT AS NOTED. COORDINATE ALL WORK WITH GENERAL CONTRACTOR, TYPICAL.
- 2 ELECTRICAL CONTRACTOR SHALL ROUTE ALL CONDUIT HORIZONTALLY TO INDIVIDUAL ENCLOSURES AND TRANSFER FROM NEMA 3R JUNCTION BOX TO ENCLOSURE WITH SEAL-TIGHT FLEX, TYPICAL.
- 3) ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A NEW 24"*24"*12" QUAZITE BOX WITH HINGED COVER FOR NEW FIBER. ROUTE 2"C FROM QUAZITE BOX TO MDF.
- 4) ELECTRICAL CONTRACTOR SHALL DIRECTIONAL-BORE A NEW 2"C FROM EXISTING QUAZITE BOX TO NEW QUAZITE BOX. ROUTE 2"C FROM NEW QUAZITE BOX INTO ELECTRICAL ROOM. COORDINATE ALL WORK WITH GENERAL CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL PROVIDE, INSTALL, AND TERMINATE AT BOTH ENDS 12-STRAND SINGLE MODE FIBER IN INNER DUCT. PROVIDE 10' SERVICE LOOP AT EACH END FROM ELEMENTARY 'IDF' TO TRANSPORTATION BUILDING 'MDF.' PROVIDE AND INSTALL 25 PAIR CABLE WET LABELED AND TERMINATE AT EACH END FROM ELEMENTARY 'IDF' TO TRANSPORTATION BUILDING 'MDF.' COORDINATE ALL WORK WITH GENERAL CONTRACTOR.
- (6) EXISTING 2"C.
- (7) MDF LOCATED ON MEZZANINE.

WORK WITH GENERAL CONTRACTOR.

- (8) UNDERGROUND CONDUIT FOR SERVICES. REFER TO DRAWING 'E6.1' FOR FURTHER INFORMATION.
- 9) GATE CONTROLLER AND KEYPAD PROVIDED AND INSTALLED BY OTHERS. ELECTRICAL CONTRACTOR SHALL TERMINATE AS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM. COORDINATE ALL WORK WITH GENERAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 3/4"C WITH PULL-STRING FROM KEYPAD TO GATE CONTROLLER.
- COORDINATE ALL WORK WITH GENERAL CONTRACTOR. 1) ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL (1)-1"C FROM MDP TO TANK, (2)-3/4"C LOCATED IN

ELECTRICAL ROOM ADJACENT TO EXTERIOR WALL TO TANK. STUB 6" A.F.F. AND CAP FOR FUTURE. COORDINATE ALL

(2) LIFT STATION AND CONTROLLER PROVIDED BY OTHERS. ELECTRICAL CONTRACTOR SHALL MOUNT CONTROLLER ON SIDE OF BUILDING AND ROUTE (1)-4"C FROM CONTROLLER TO WET WALL. TERMINATE AS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM. COORDINATE ALL WORK WITH GENERAL CONTRACTOR.

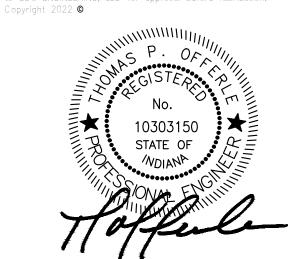


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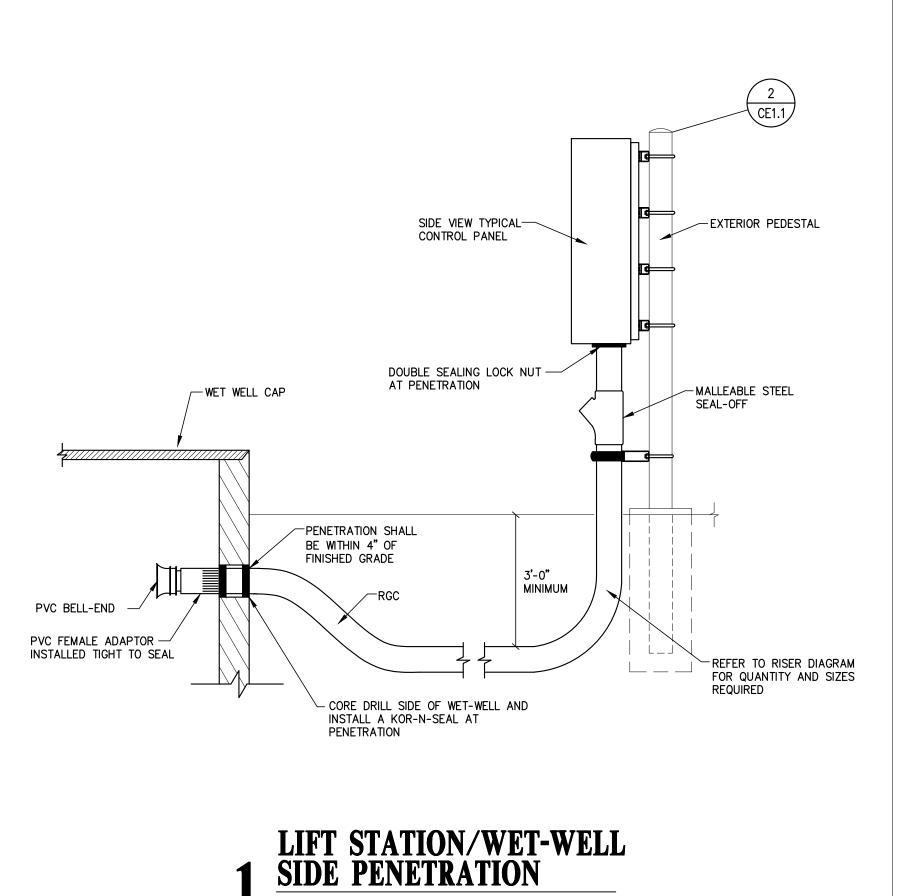
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7/8" 12ga. GALVANIZED VERTICAL UNISTRUT AS STAINLESS STEEL FASTENERS TYPICAL REQUIRED FOR MOUNTING 3'-0" MAX. O.C. ADD POSTS AS REQUIRED - 3"x10' GALVANIZED STEEL POSTS CONCRETE FILLED WITH PLUMBING STYLE PVC CAP, UNISTRUT ATTACHED WITH 3/8" STAINLESS STEEL "U" BOLTS 1-5/8" 12ga. GALVANIZED STEEL UNISTRUT AS REQUIRED / 3-1/4" 12ga. GALVANIZED UNISTRUT FOR CONDUIT SUPPORT EXOTHERMIC WELD 3/4"X10' COPPERCLAD GROUND ROD #6 SOLID COPPER — PIPE SHALL BE COATED
WITH BITUMASTIC (ASPHALT
VARNISH) WHERE ENCASED IN CONCRETE NOTE: CUT ENDS OF GALVANIZED UNISTRUT AND CUT THREADS OF RGC MUST BE SPRAYED WITH (2) COATS OF COLD GALVANIZING PAINT.



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date: March 2, 2022 project: 473003 (212600) coordinator: JM CE1.1 drawn: SJB checked: TPO

1) ELECTRICAL CONTRACTOR SHALL ROUTE (1)-1"C WITH PULL-STRING FROM CORNER OF ELECTRICAL ROOM TO EACH POLE-BASE FOR OWNER PROVIDED AND INSTALLED CAMERAS. COORDINATE ALL WORK WITH GENERAL CONTRACTOR.



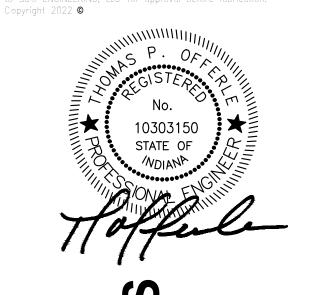
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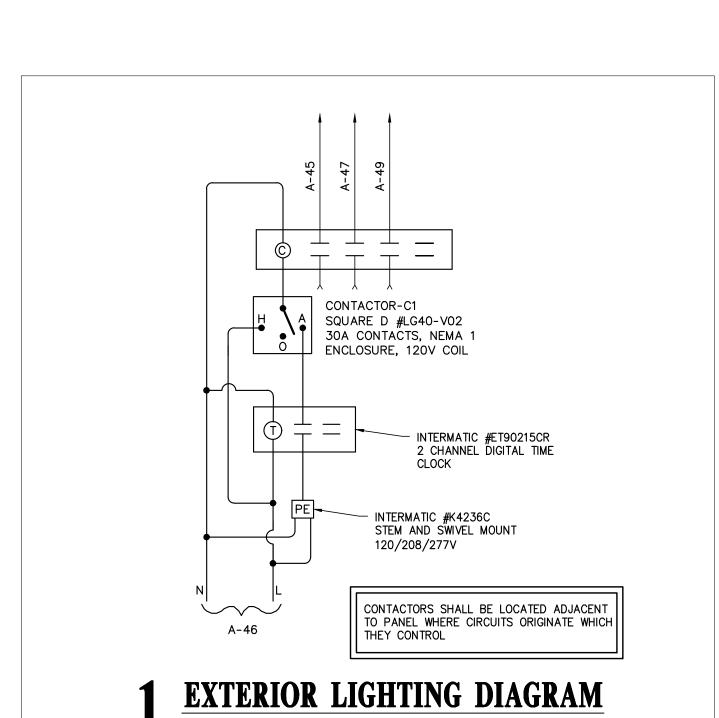
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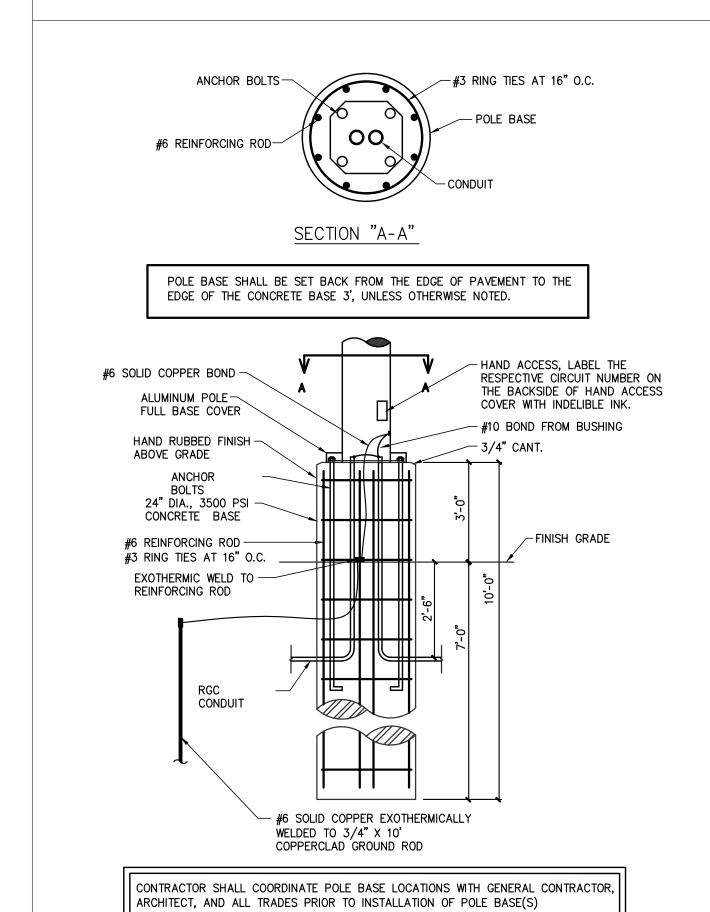
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| Flact | trical S | Site Lighting Plar |

date: March 2, 2022

project: 473003 (212600)

coordinator: NG

drawn: SJB

checked: TPO

- 1 ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL CORD-REEL EQUAL TO REELCRAFT #H-7122 WITH A 20A TWIST LOCK POWER FEED CORD. MOUNT TO CEILING STRUCTURE WITH DUPLEX RECEPTACLE FEED AS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM. COORDINATE ALL WORK WITH GENERAL CONTRACTOR.
- 2 DATA AND RECEPTACLE FOR TIME CLOCK. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN / INSTALLATION.
- DATA AND RECEPTACLE FOR FUELING DESK. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN / INSTALLATION.

 AIR-COMPRESSOR RELOCATED BY OWNER. ELECTRICAL CONTRACTOR SHALL TERMINATE AS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM. COORDINATE ALL WORK WITH GENERAL CONTRACTOR.
- 5 1-1/4"C, 2-#4, 1-#8G.



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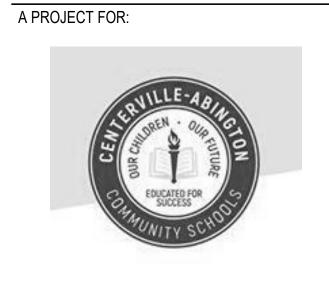
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ITERVILLE-ABINGTON COMMUNITY SCHOOLS TRANSPORTATION BUILDING



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First Floor Electrical Power Plan

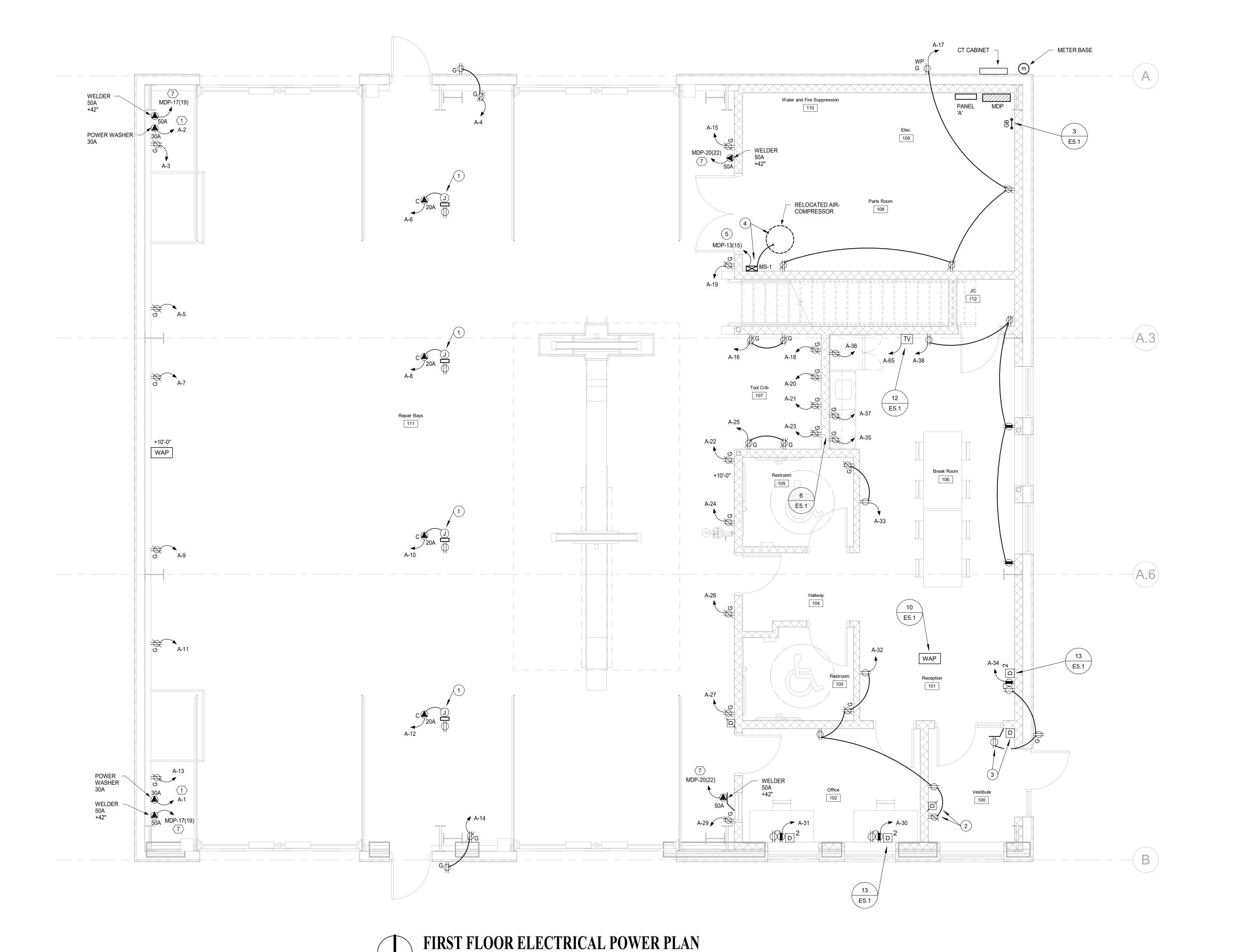
date: March 2, 2022

project: 487001 (212600)

coordinator: J.M.

drawn: SJB

checked: TPO



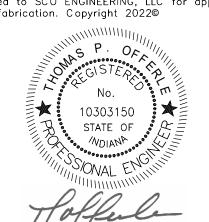
- FLUSH MOUNTED JUNCTION FOR OWNER PROVIDED AND INSTALLED SECURITY CAMERAS. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN / INSTALLATION.
- 2 ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 4' * 4' * 3/4" SHEET OF FIRE-RATED PLYWOOD. COORDINATE ALL WORK WITH GENERAL CONTRACTOR.
- 3 ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL SLEEVES AS REQUIRED FOR INCOMING FIBER / PHONE AND SECURITY CABLING. FIRE-STOP UPON COMPLETION. COORDINATE ALL WORK WITH GENERAL CONTRACTOR.



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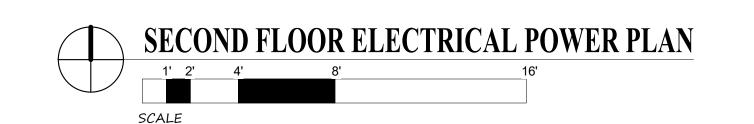


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Second Floor Electrical Power Plan

date: March 2, 2022 project: 487001 (212600) coordinator: J.M. E1.2 drawn: S.J.B.

checked: T.P.O.



- TERMINATE EXIT, EM, AND EM1 FIXTURES TO LINE SIDE OF RESPECTIVE ROOM LIGHTING CIRCUIT.
- ELECTRICAL CONTRACTOR SHALL REFER TO SHEET E2.2 FOR CONTINUATION OF LIGHTING CIRCUIT. COORDINATE ALL WORK WITH CONSTRUCTION MANAGER.
- 3) CONTRACTOR SHALL SURFACE MOUNT FIXTURE TYPE 'L03'. COORDINATE ALL WORK WITH CONSTRUCTION MANAGER. REFER TO SHEET E2.2 FOR LIGHTING FIXTURES OPERATED BY LIGHTING CONTROL SHOWN. COORDINATE ALL WORK WITH CONSTRUCTION MANAGER.

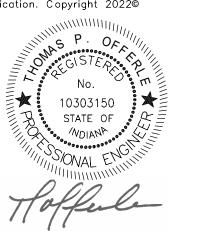


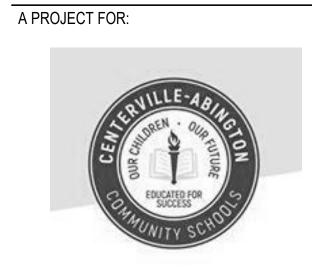
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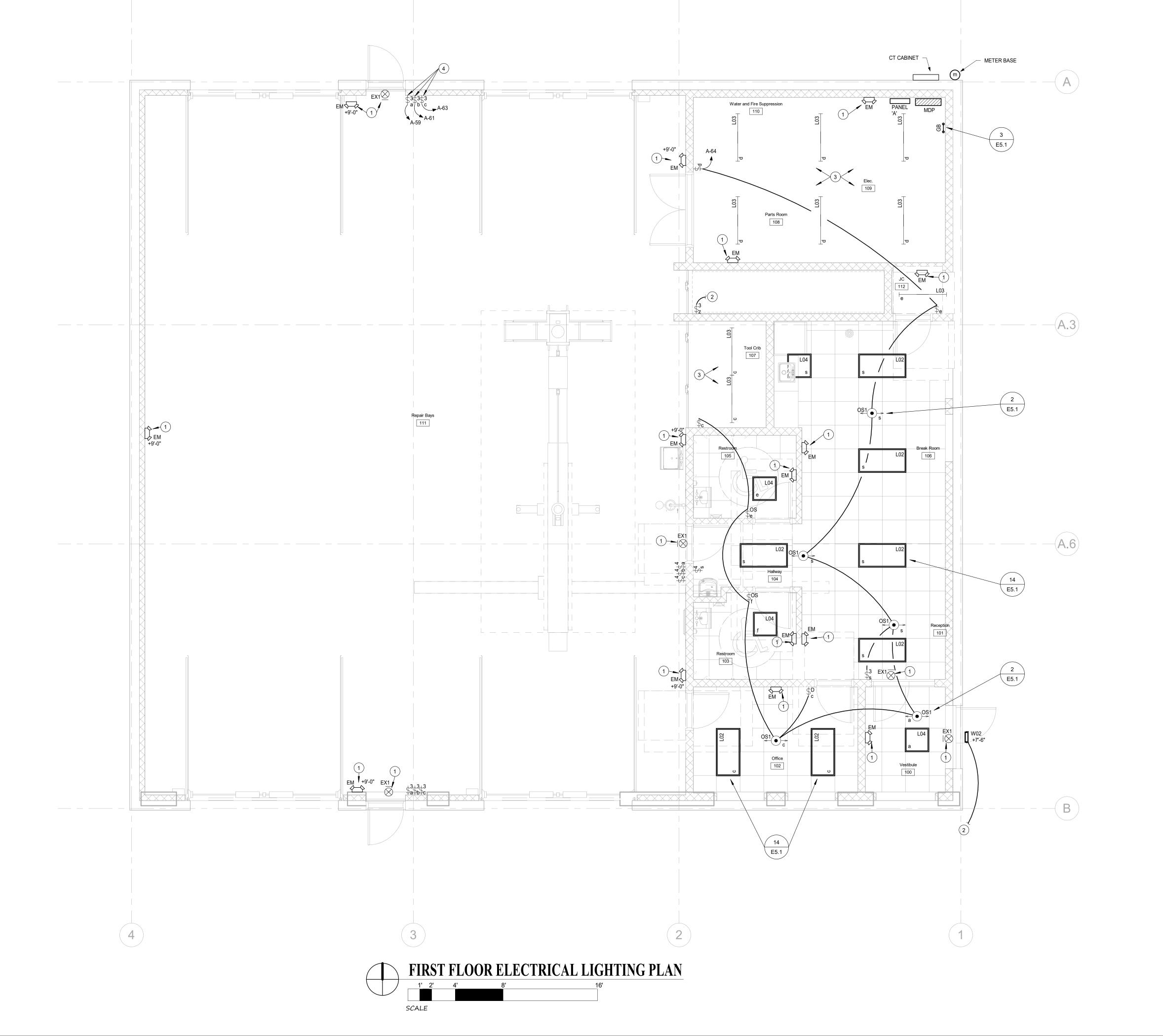




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Lighting Plan

date: March 2, 2022 project: 487001 (212600)
coordinator: J.M.
drawn: Author E2.1 checked: Checker



ELECTRICAL PLAN NOTES 1) TERMINATE EXIT, EM, AND EM1 FIXTURES TO LINE SIDE OF RESPECTIVE ROOM LIGHTING CIRCUIT.

2 ELECTRICAL CONTRACTOR SHALL REFER TO SHEET E2.1 FOR CONTINUATION OF LIGHTING CIRCUIT. COORDINATE ALL WORK WITH CONSTRUCTION MANAGER.

3) CONTRACTOR SHALL SUSPEND FIXTURE TYPE 'L03' AT SPECIFIED HEIGHT. COORDINATE ALL WORK WITH CONSTRUCTION 4 REFER TO SHEET E2.1 FOR LIGHTING FIXTURES OPERATED BY LIGHTING CONTROLS AND CONTINUATION OF LIGHTING CIRCUITS. COORDINATE ALL WORK WITH CONSTRUCTION MANAGER.

5 CONTRACTOR SHALL REFER TO SHEET CE2.1 FOR CONTINUATION OF LIGHTING CIRCUIT. COORDINATE ALL WORK WITH CONSTRUCTION MANAGER.

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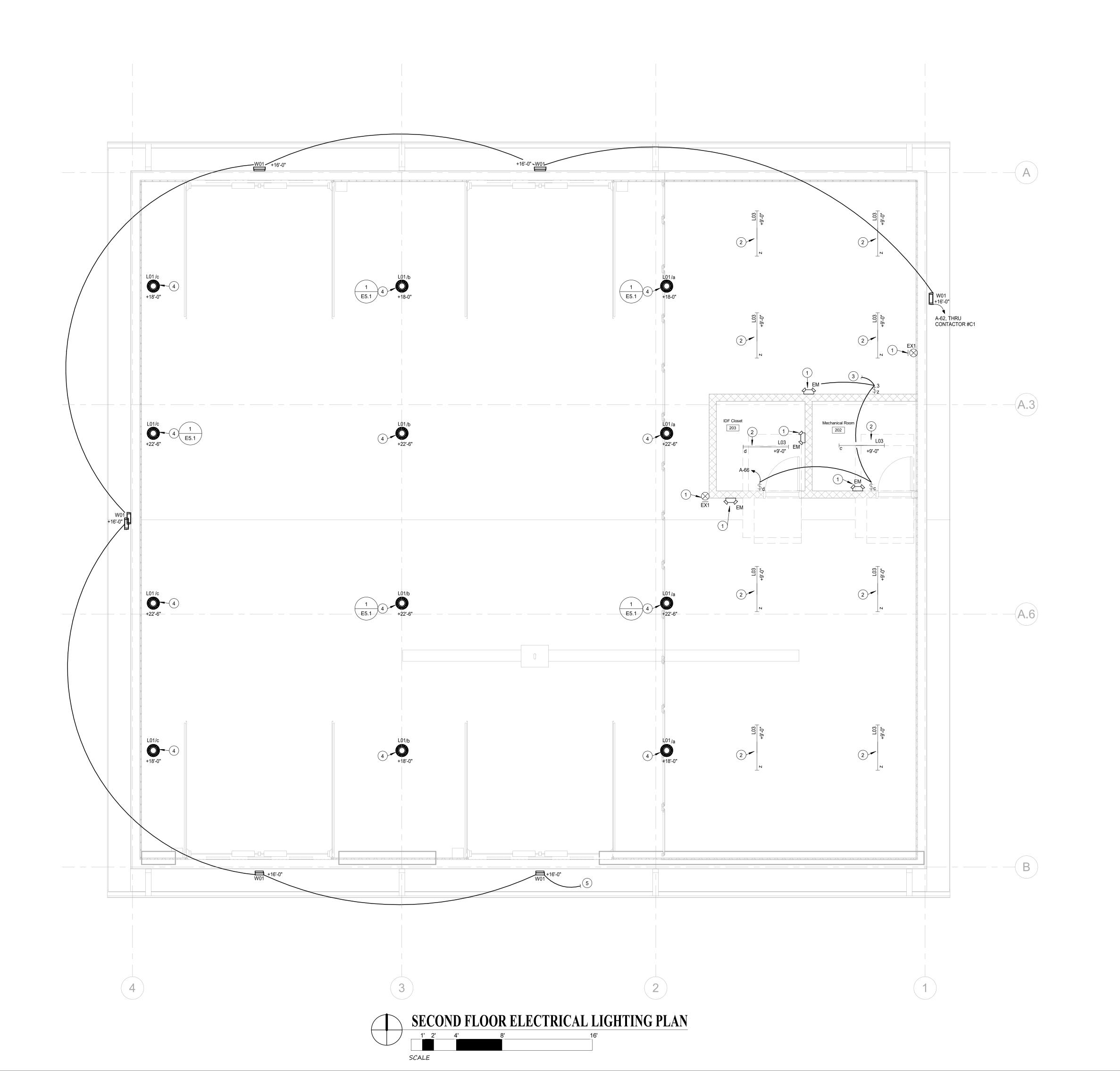




| purpose whatsoev | er without expressed writte | shall be used by any person, firm, or corporation for any en consent of Moake Park Group, Inc The Owner shall b I reference in connection with this project. |
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| mark | date | description |
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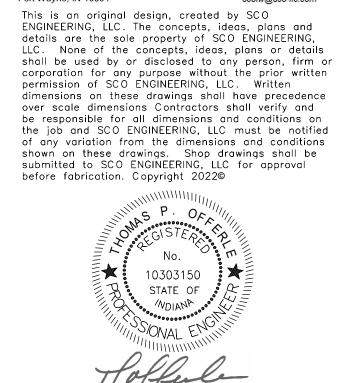
date: March 2, 2022 project: 487001 (212600)

coordinator: J.M. drawn: Author checked: Checker



- EQUIPMENT IS PROVIDED AND INSTALLED BY ANOTHER CONTRACTOR. ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, AND PLUMBING DRAWING SHEETS TO COORDINATE THE EXACT LOCATION OF EQUIPMENT WITH EQUIPMENT PROVIDER. ELECTRICAL CONTRACTOR SHALL TERMINATE EQUIPMENT AS REQUIRED. WHERE NO STARTERS, DISCONNECTS, OR SWITCHES ARE INDICATED, THEY WILL BE FACTORY MOUNTED AND LOAD-SIDE WIRED.
- (2) OVERHEAD DOORS AND CONTROLLERS PROVIDED AND INSTALLED BY OTHERS. ELECTRICAL CONTRACTOR SHALL TERMINATE MOTORS AND CONTROLLERS FOR A COMPLETE AND FUNCTIONAL SYSTEM. COORDINATE ALL WORK WITH GENERAL CONTRACTOR.
- MOTOR STARTER PROVIDED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL MOUNT AND TERMINATE AS DIRECTED FOR A COMPLETE AND FUNCTIONAL SYSTEM. COORDINATE ALL WORK WITH GENERAL CONTRACTOR.
- REFER TO DRAWING 'E3.2' FOR CONTINUATION.

 (5) 3/4"C, 2-#12, 1-#12G TERMINATED TO 'AC-1.'
- 6 OIL LEAK DETECTION CONTROL PANEL PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL TERMINATE AS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM.
- ROTORY LIFT PROVIDED AND INSTALLED BY OTHERS. ELECTRICAL CONTRACTOR SHALL TERMINATE FOR A COMPLETE AND FUNCTIONAL SYSTEM. COORDINATE ALL WORK WITH GENERAL CONTRACTOR.
- 8 CLASS 1, DIVISION 1 WIRING PER N.E.C.
- 9 TAMPER AND FLOW SWITCHES PROVIDED BY OTHERS, TERMINATE TO FACP FOR A COMPLETE AND FUNCTIONAL SYSTEM.
- (10) CRANE CONTROLLER. ELECTRICAL CONTRACTOR SHALL TERMINATE AS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM. COORDINATE ALL WORK WITH GENERAL CONTRACTOR.
- DUPLEX RECEPTACLE FOR AIR-COMPRESSOR ASSOCIATED WITH DRY-SYSTEM. COORDINATE EXACT LOCATION WITH FIRE-PROTECTION CONTRACTOR PRIOR TO ROUGH-IN / INSTALLATION.



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ERVILLE-ABINGTON COMMUNITY SCHOOLS TRANSPORTATION BUILDING



| _ | | nd reference in connection with this project. |
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| mark | date | description |
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date: March 2, 2022

project: 487001 (212600)

coordinator: J.M.

drawn: Author

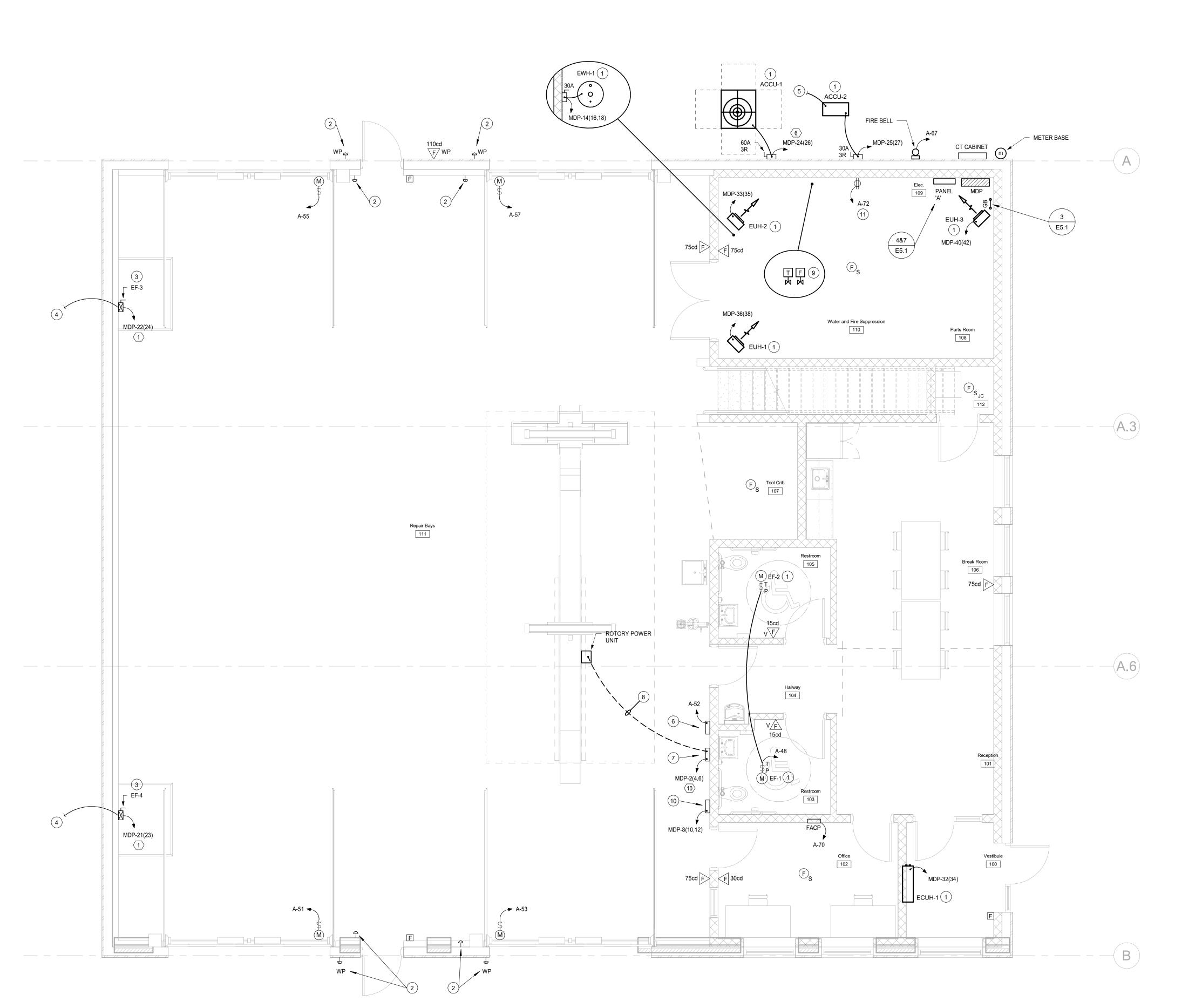
E3.1

checked: Checker

FIRST FLOOR ELECTRICAL SYSTEMS PLAN

1' 2' 4' 8' 16'

SCALE



- EQUIPMENT IS PROVIDED AND INSTALLED BY ANOTHER CONTRACTOR. ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, AND PLUMBING DRAWING SHEETS TO COORDINATE THE EXACT LOCATION OF EQUIPMENT WITH EQUIPMENT PROVIDER. ELECTRICAL CONTRACTOR SHALL TERMINATE EQUIPMENT AS REQUIRED. WHERE NO STARTERS, DISCONNECTS, OR SWITCHES ARE INDICATED, THEY WILL BE FACTORY MOUNTED AND LOAD SIDE WHERE.
- 2 ELECTRICAL CONTRACTOR SHALL REFER TO DRAWING 'E3.1' FOR CONTINUATION.

 3 ELECTRICAL CONTRACTOR SHALL COORDINATE RH-1,2,3 TERMINATION POINTS WITH MECHANICAL CONTRACTOR. TERMINATE FOR A COMPLETE AND FUNCTIONAL SYSTEM.

AL PLAN NOTES R CONTRACTOR. ELECTRICAL CONTRACTOR SHALL REFER TO MOAKE I

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N COMMUNITY SCHOOLS IN TION BUILDING

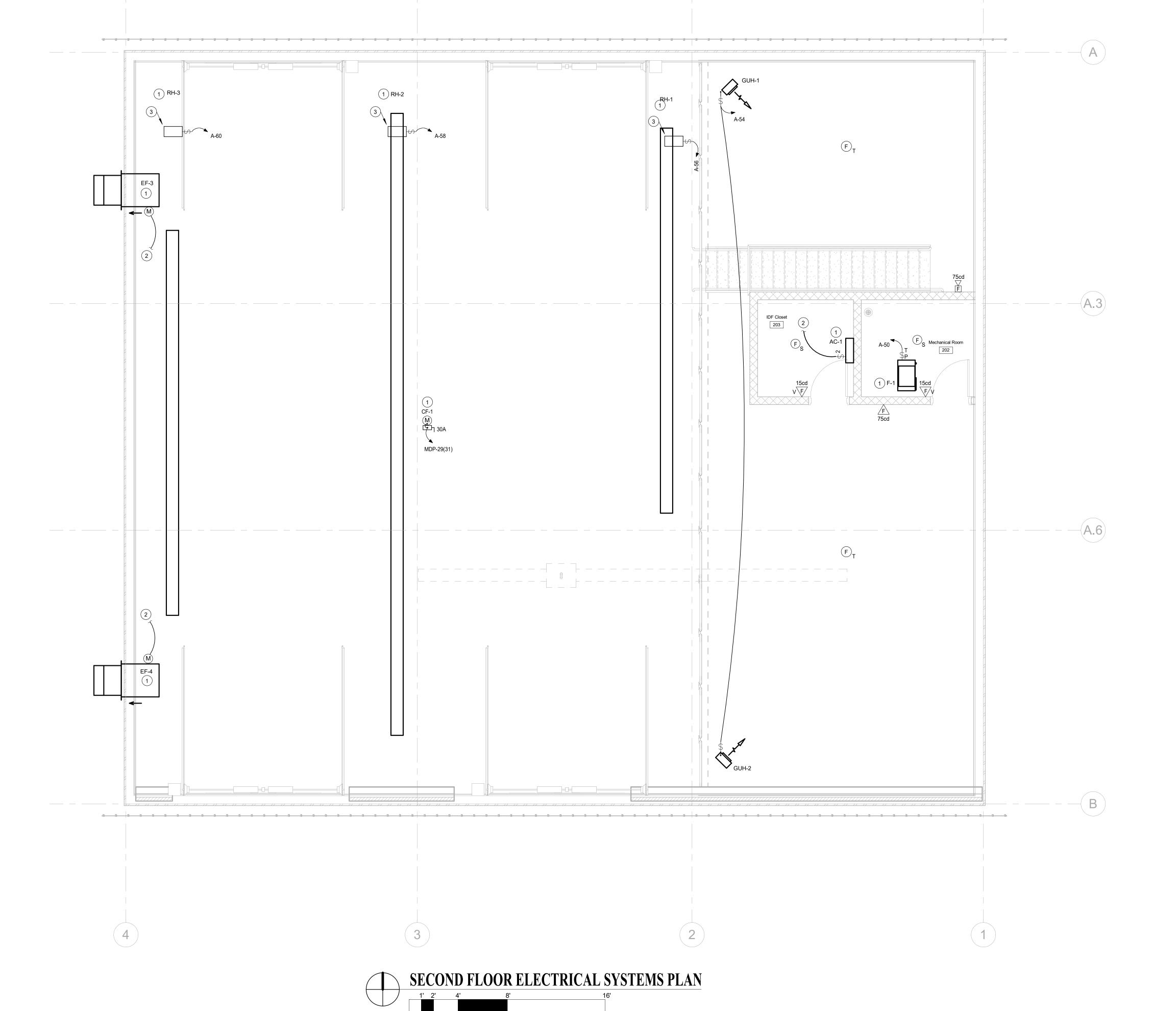


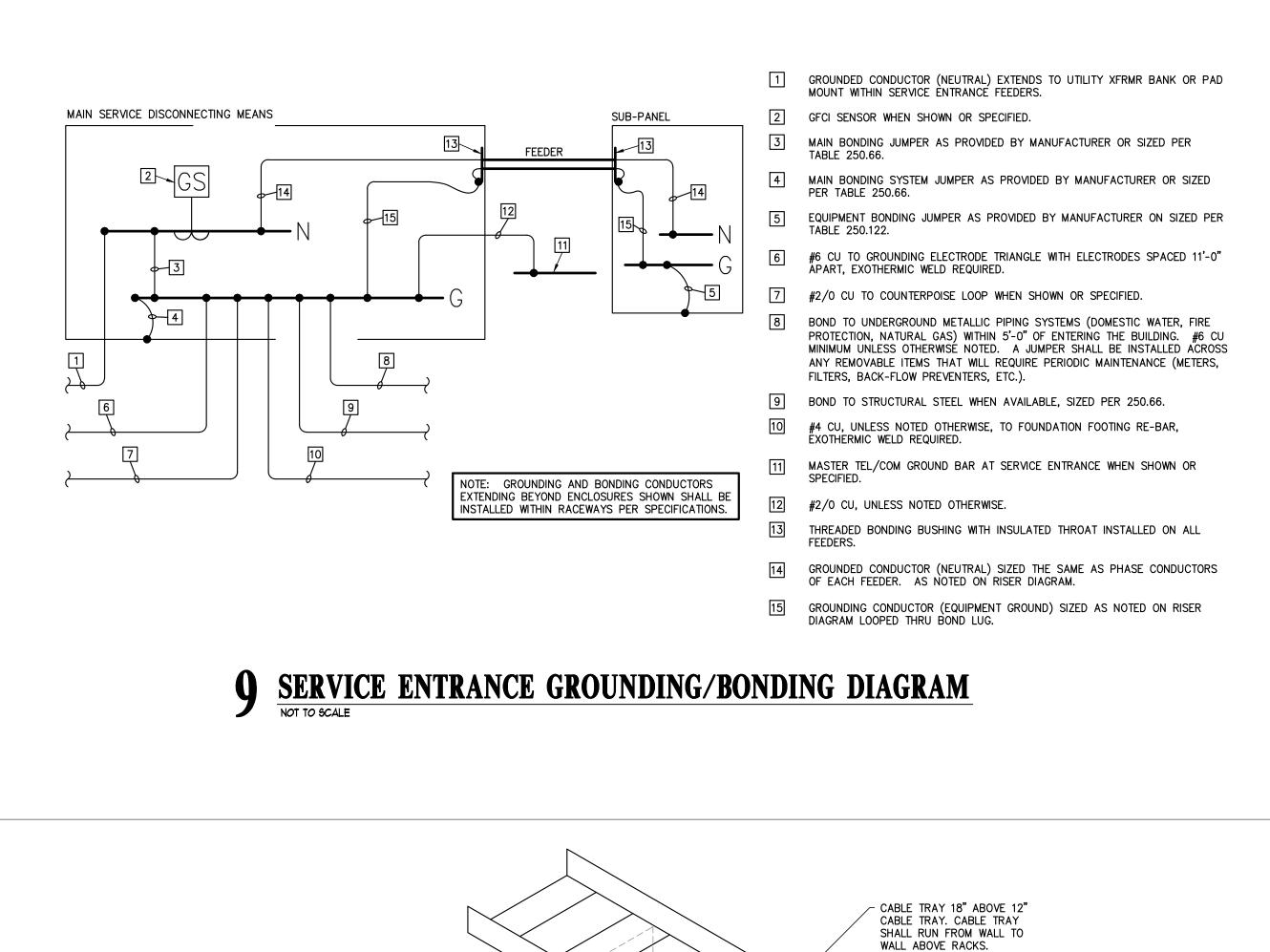
| | | ten consent of Moake Park Group, Inc The Owner shall be deference in connection with this project. |
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date: March 2, 2022

coordinator: J.M.

drawn: SJB
checked: TPO





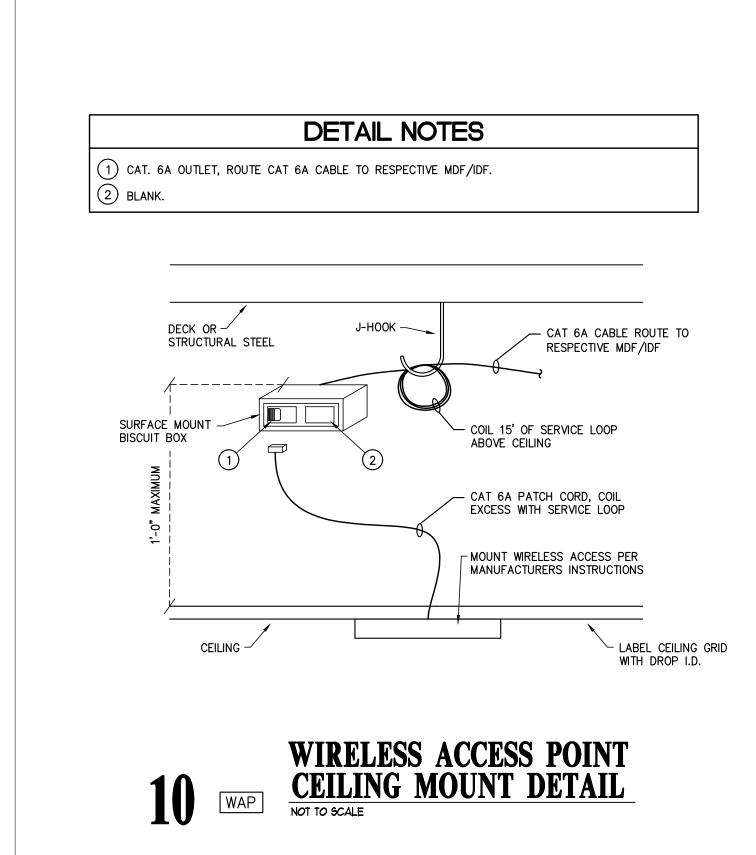
11 TWO RACK DETAIL (TYPICAL)
NOT TO SCALE

14 LAY-IN FIXTURE INSTALLATION, TYPICAL NOT TO SCALE

2-POST EQUIPMENT -

BOLT RACK(S) TO FLOOR -

USING STANDARD WEDGE ANCHOR. NO TAPCON SCREWS ALLOWED. TYPICAL



113"

FRONT OF

TRANSFORMER

#3 REBAR DOUBLE TIED

20"x63" OPENING

IN CONCRETE PAD

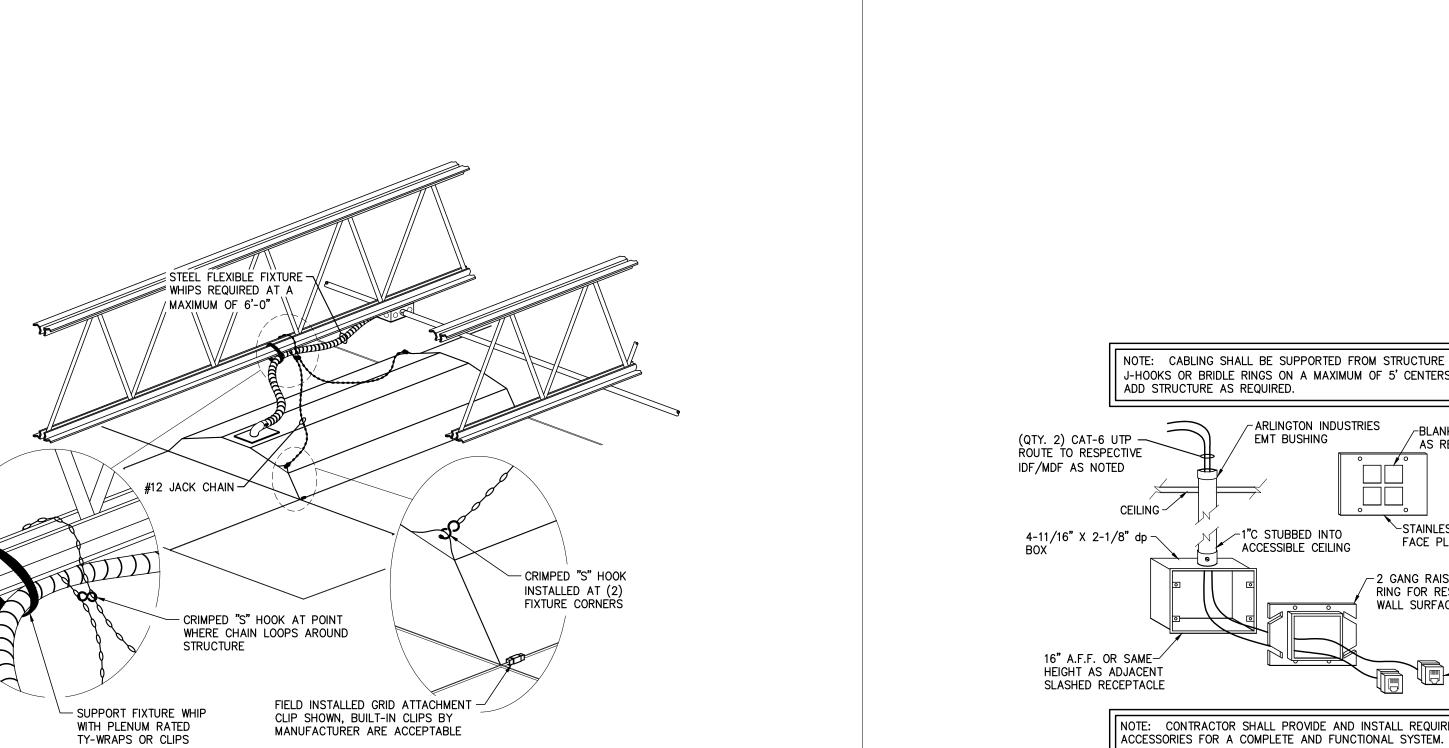
GROUND ROD

LEAVE 3/4"x10' GROUND ROD EXTENDED-

3" ABOVE CONCRETE AND BOND TO

REBAR AND COUNTERPOISE

AT 6" O.C. SPACING OVER THE ENTIRE PAD

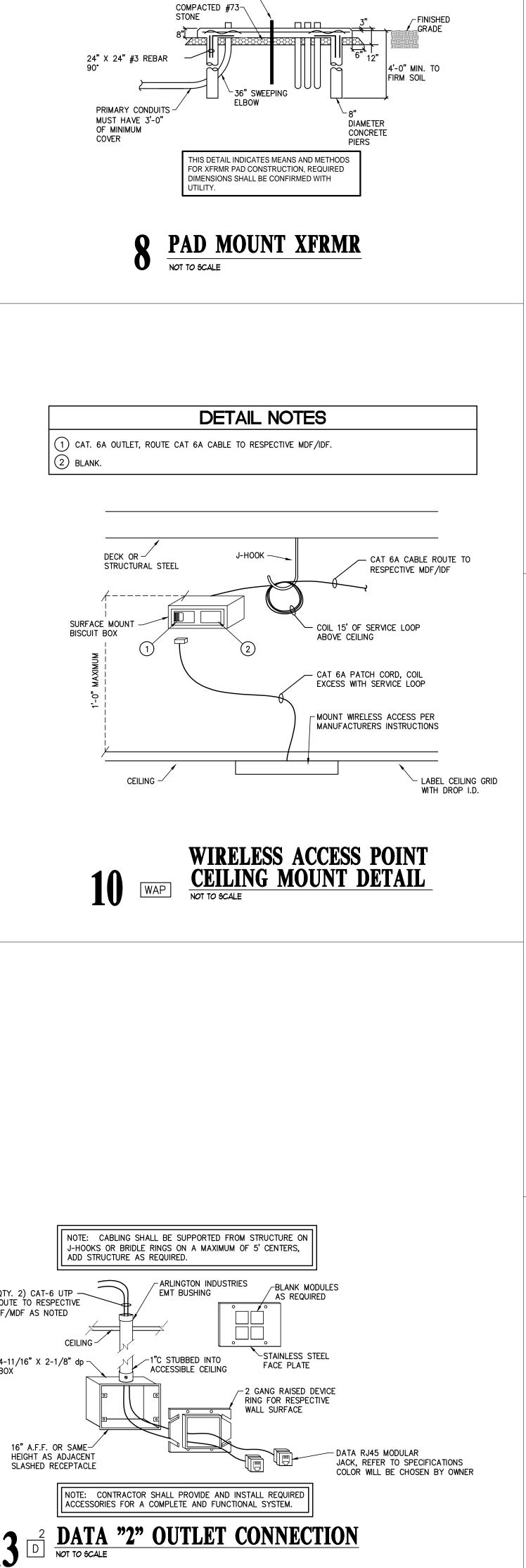


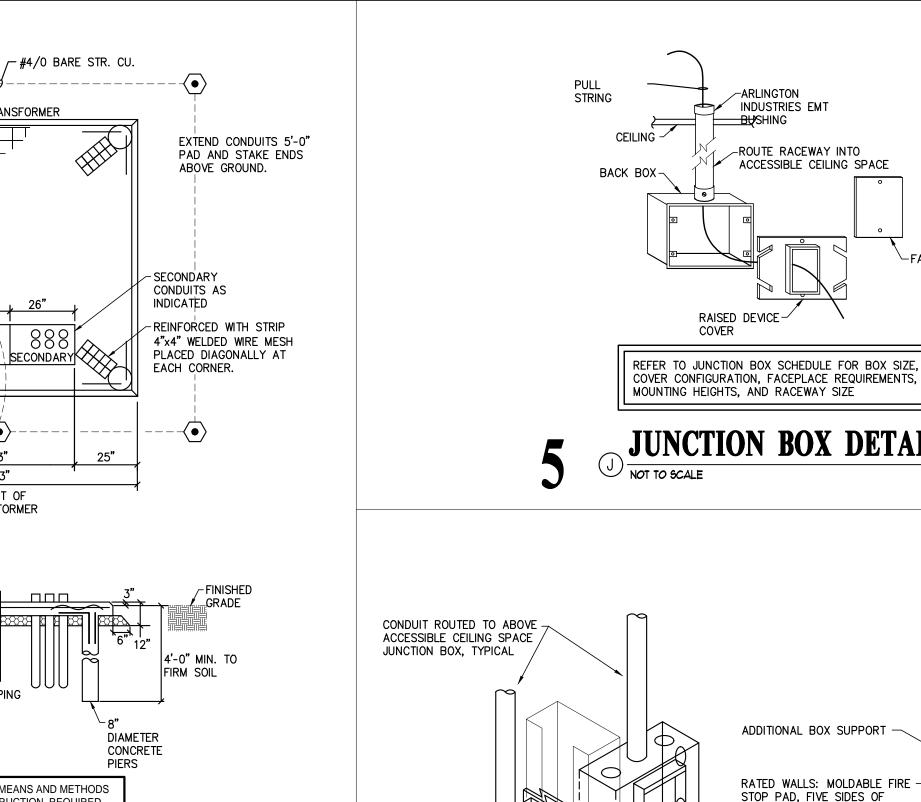
SUPPORT TO WALL AND TOP OF RACK. TYPICAL

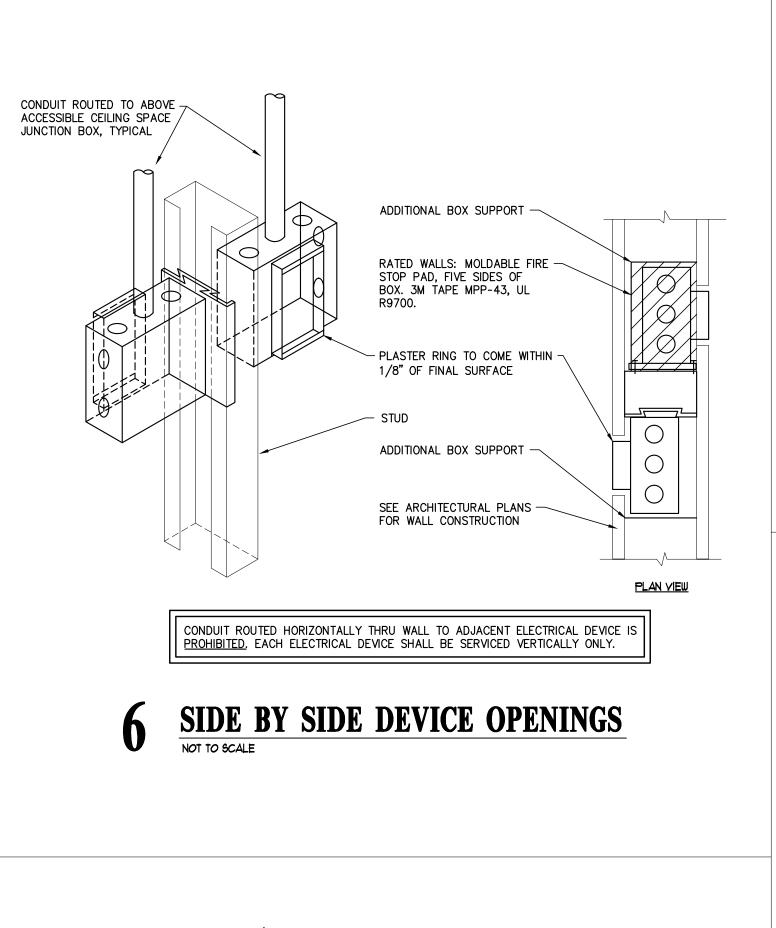
2-POST PATCH PANEL

6" VERTICAL CABLE MANAGERS. BOLT TO

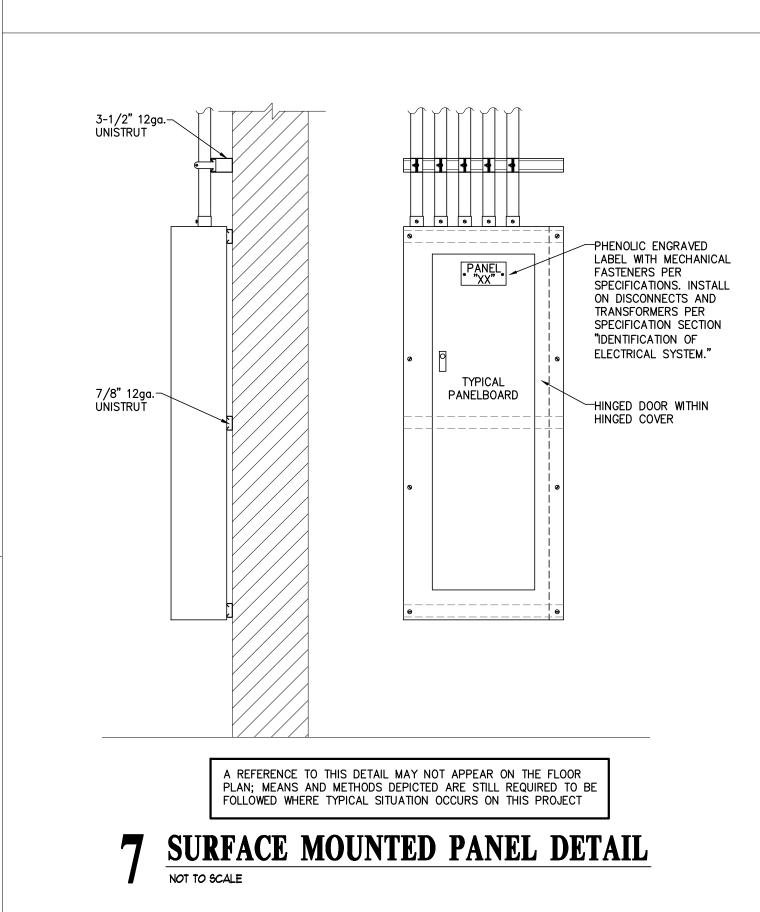
ADJACENT RACK(S).

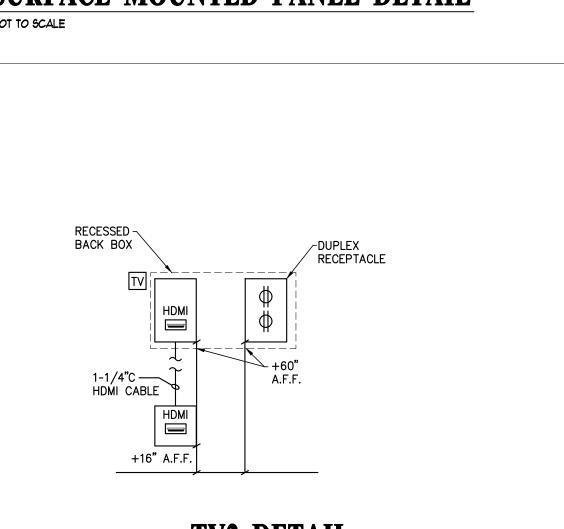


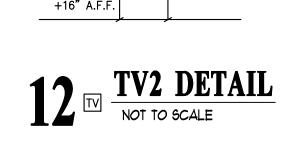


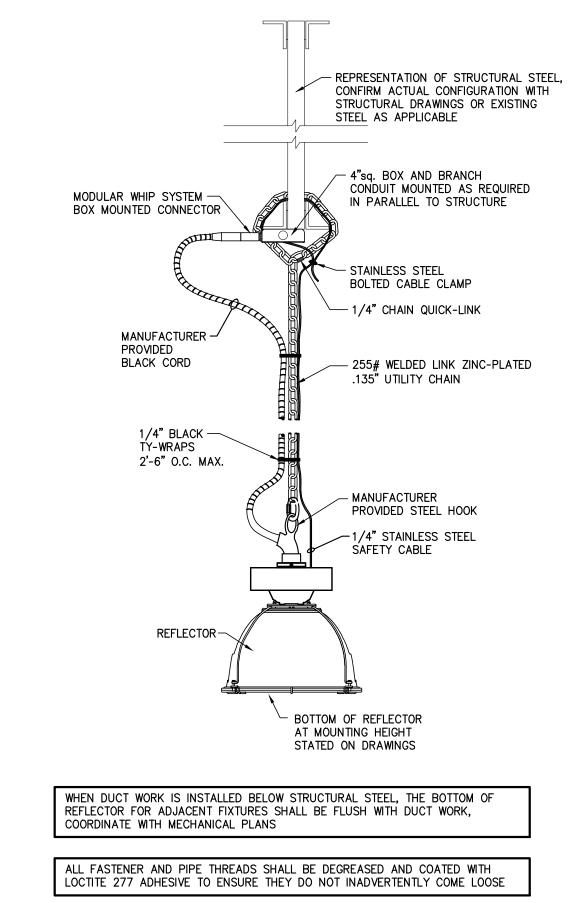


FACE PLATE

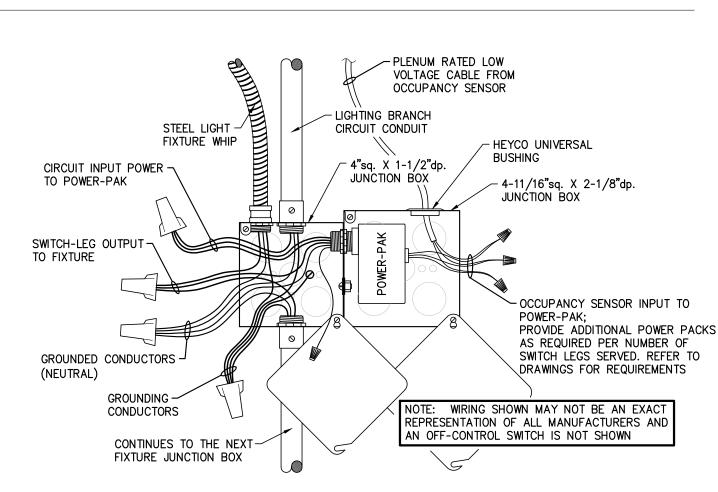




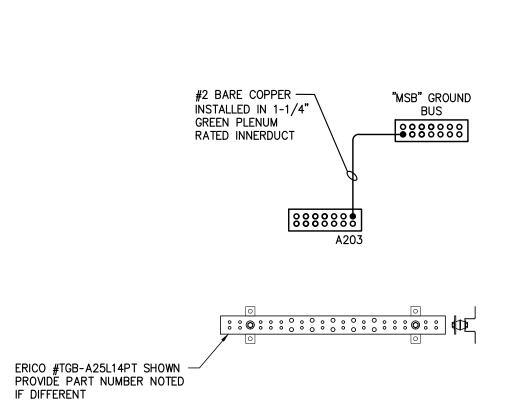






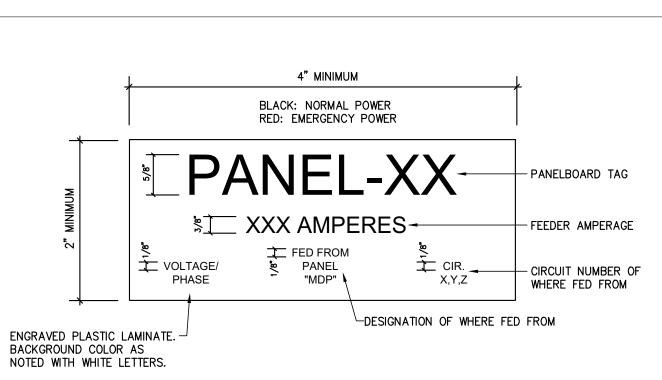


OCCUPANCY SENSOR POWER-PAK MOUNTING DETAIL

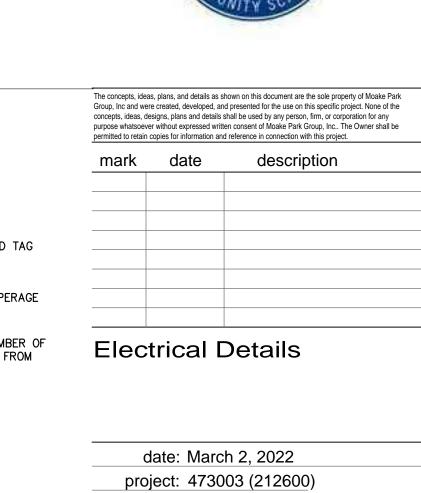












E5.1

coordinator: JM

drawn: SJB checked: TPO

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FORT WAYNE

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CENTERVIL

| M(REM) CKT BRE NO. Si 1 300 3 200 7 200 9 200 11 200 15 200 17 200 19 200 21 200 23 200 25 200 | TYPE: IOUNT: IARKS: EAKER SIZE DA/1P | SURFACE LOAD DESCRIPTION POWER WASHER R: RM # 111 R: RM # 108 R: RM # 107 R: RM # 107 R: RM # 107 | PHASE A (KVA) 1.90 1.90 0.60 0.60 0.60 0.60 0.60 0.60 | PHASE B (KVA) 0.60 0.60 0.60 0.60 0.60 | AIC: PHASE C (KVA) 0.60 0.60 0.60 0.60 | 225A 22K R=RECEPTACLE LOAD DESCRIPTION POWER WASHER R: RM # 111 R: RM # 111 | L=LITES BREAKER SIZE 30A/1P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P | CKT NO. 2 4 6 8 10 12 14 16 |
|---|---|---|---|---|---|--|---|-------------------------------------|
| NO. SI 1 30/ 3 20/ 5 20/ 7 20/ 9 20/ 11 20/ 13 20/ 15 20/ 17 20/ 21 20/ 23 20/ 25 20/ | 0A/1P | POWER WASHER R: RM # 111 R: RM # 108 R: RM # 108 R: RM # 107 R: RM # 107 | (KVA) 1.90 1.90 0.60 0.60 0.60 0.60 0.60 | 0.60 0.60 0.60 0.60 0.60 | (KVA) 0.60 0.60 0.60 0.60 | POWER WASHER R: RM # 111 | SIZE 30A/1P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P | NO. 2 4 6 8 10 12 |
| 1 30/ 3 20/ 5 20/ 7 20/ 9 20/ 11 20/ 13 20/ 15 20/ 17 20/ 19 20/ 21 20/ 23 20/ 25 20/ | 0A/1P 0A/1P 0A/1P 0A/1P 0A/1P 0A/1P 0A/1P 0A/1P | R: RM # 111 R: RM # 108 R: RM # 108 R: RM # 107 R: RM # 107 | 1.90 1.90 0.60 0.60 0.60 0.60 | 0.60 0.60 0.60 0.60 0.60 | 0.60 0.60 0.60 0.60 | R: RM # 111 | 30A/1P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P | 2 4 6 8 10 12 14 |
| 5 20/ 7 20/ 9 20/ 11 20/ 13 20/ 15 20/ 17 20/ 19 20/ 21 20/ 23 20/ 25 20/ |)A/1P)A/1P)A/1P)A/1P)A/1P)A/1P)A/1P)A/1P)A/1P | R: RM # 111 R: RM # 108 R: RM # 108 R: RM # 107 R: RM # 107 | 0.60 0.60 0.60 0.60 0.60 | 0.60 0.60 0.60 0.60 | 0.60 0.60 0.60 0.60 | R: RM # 111 | 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P | 4 6 8 10 12 |
| 7 20/ 9 20/ 11 20/ 13 20/ 15 20/ 17 20/ 19 20/ 21 20/ 23 20/ 25 20/ |)A/1P)A/1P)A/1P)A/1P)A/1P)A/1P)A/1P)A/1P | R: RM # 111 R: RM # 111 R: RM # 111 R: RM # 111 R: RM # 108 R: RM # 108 R: RM # 107 R: RM # 107 | 0.60 0.60 0.60 0.60 | 0.60 0.60 0.60 | 0.60 0.60 0.60 0.60 | R: RM # 111 | 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P | 6 8 10 12 14 |
| 7 20/ 9 20/ 11 20/ 13 20/ 15 20/ 17 20/ 19 20/ 21 20/ 23 20/ 25 20/ |)A/1P)A/1P)A/1P)A/1P)A/1P)A/1P)A/1P)A/1P | R: RM # 111 R: RM # 111 R: RM # 111 R: RM # 111 R: RM # 108 R: RM # 108 R: RM # 107 R: RM # 107 | 0.60 0.60 0.60 0.60 | 0.60 0.60 | 0.60 0.60 0.60 0.60 | R: RM # 111 R: RM # 111 R: RM # 111 R: RM # 111 | 20A/1P 20A/1P 20A/1P 20A/1P | 8 10 12 14 |
| 9 20/ 11 20/ 13 20/ 15 20/ 17 20/ 19 20/ 21 20/ 23 20/ 25 20/ |)A/1P)A/1P)A/1P)A/1P)A/1P)A/1P | R: RM # 111 R: RM # 111 R: RM # 111 R: RM # 108 R: RM # 108 R: RM # 107 R: RM # 107 | 0.60 0.60 0.60 0.60 | 0.60 0.60 | 0.60 0.60 | R: RM # 111 R: RM # 111 R: RM # 111 | 20A/1P 20A/1P 20A/1P | 10 12 14 |
| 11 20/ 13 20/ 15 20/ 17 20/ 19 20/ 21 20/ 23 20/ 25 20/ |)A/1P)A/1P)A/1P)A/1P)A/1P)A/1P | R: RM # 111 R: RM # 111 R: RM # 108 R: RM # 108 R: RM # 107 R: RM # 107 | 0.60 0.60 | 0.60 0.60 | 0.60 0.60 | R: RM # 111 R: RM # 111 | 20A/1P 20A/1P | 12 |
| 13 20 <i>i</i> 15 20 <i>i</i> 17 20 <i>i</i> 19 20 <i>i</i> 21 20 <i>i</i> 23 20 <i>i</i> 25 20 <i>i</i> |)A/1P)A/1P)A/1P)A/1P)A/1P | R: RM # 111 R: RM # 108 R: RM # 108 R: RM # 107 R: RM # 107 | 0.60 0.60 | | 0.60 0.60 | R: RM # 111 | 20A/1P | 14 |
| 15 20 <i>i</i> 17 20 <i>i</i> 19 20 <i>i</i> 21 20 <i>i</i> 23 20 <i>i</i> 25 20 <i>i</i> |)A/1P)A/1P)A/1P)A/1P | R: RM # 108 R: RM # 108 R: RM # 107 R: RM # 107 | 0.60 0.60 | | | | | |
| 17 20 <i>i</i> 19 20 <i>i</i> 21 20 <i>i</i> 23 20 <i>i</i> 25 20 <i>i</i> |)A/1P)A/1P)A/1P)A/1P | R: RM # 108 R: RM # 107 R: RM # 107 | | | | R: RM # 107 | 20A/1P | 16 |
| 19 20 <i>i</i> 21 20 <i>i</i> 23 20 <i>i</i> 25 20 <i>i</i> |)A/1P)A/1P)A/1P | R: RM # 107 | | | | | | |
| 21 20 <i>i</i> 23 20 <i>i</i> 25 20 <i>i</i> |)A/1P)A/1P | R: RM # 107 | | | 0.60 | R: RM # 107 | 20A/1P | 18 |
| 23 20 <i>i</i> 25 20 <i>i</i> |)A/1P | | | | | R: RM # 107 | 20A/1P | 20 |
| 25 20/ | | R· RM # 107 | | 0.60 0.60 | | R: RM # 111 | 20A/1P | 22 |
| |)A/1P | 13. 13WI # 10 <i>I</i> | | | 0.60 0.60 | R: RM # 111 | 20A/1P | 24 |
| 27 20 | | R: RM # 107 | 0.60 | | | R: RM # 111 | 20A/1P | 26 |
| 21 201 |)A/1P | R: RM # 111 | | 0.60 | | R: RM # 111 | 20A/1P | 28 |
| 29 20/ |)A/1P | R: RM # 111 | | 0.60 | 0.60 | | | |
| 31 20/ |)A/1P | R: RM # 102 | 0.10 | | 0.60 | R: RM # 102 | 20A/1P | 30 |
| 33 20/ |)A/1P | R: RM # 105 | 1.00 | 0.40 | | R: RM # 101 | 20A/1P | 32 |
| 35 20/ |)A/1P | R: RM # 105 | | 0.80 | 1.00 | R: RM # 101 | 20A/1P | 34 |
| 37 20/ |)A/1P | R: RM # 105 | 1.00 | | 1.00 | R: RM # 106 | 20A/1P | 36 |
| 39 20/ |)A/1P | R: RM # 203 | 0.60 | 1.00 | | R: RM # 106 | 20A/1P | 38 |
| 41 20/ |)A/1P | R: RM # 203 | | 0.40 | ////////////////////////////////////// | R: MEZZANINE | 20A/1P | 40 |
| 43 20/ |)A/1P | R: MEZZANINE | 0.40 | | 0.40 | R: MEZZANINE | 20A/1P | 42 |
| |)A/1P | L: SITE | 0.80 | 0.80 | | R: RM # 202 | 20A/1P | 44 |
| | | | | 0.20 | | L: CONTROLLER | 20A/1P | 46 |
| |)A/1P | L: SITE | | | 0.40 | EF-1 | 20A/1P | 48 |
| |)A/1P | L: SITE | 0.60 1.20 | | | F-1 | 20A/1P | 50 |
| |)A/1P | OHD | | 1.00 1.00 | | LEAK CONTROLLER | 20A/1P | 52 |
| |)A/1P | OHD | | | 1.00 1.00 | GUH- 1 & 2 | 20A/1P | 54 |
| 55 20/ |)A/1P | OHD | 1.00 0.60 | | | RH-1 | 20A/1P | 56 |
| 57 20/ |)A/1P | OHD | | 1.00 0.60 | | RH-2 | 20A/1P | 58 |
| 59 20/ |)A/1P | L: RM # 111 | | | 1.00 0.60 | RH-3 | 20A/1P | 60 |
| 61 20/ |)A/1P | L: RM # 111 | 0.80 0.80 | | | L: BLDG | 20A/1P | 62 |
| 63 20/ |)A/1P | L: RM # 111 | | 0.80 | | L: RM # 108 | 20A/1P | 64 |
| 65 20/ |)A/1P | TV | | | 1.00 0.60 | L: RM # 202 | 20A/1P | 66 |
| 67 20/ |)A/1P | FIRE BELL | 0.20 | | | | | |
| 69 20/ |)A/1P | SPARE | 1.00 | 1 22 | | L: RM # 203 | 20A/1P | 68 |
| 71 20/ |)A/1P | SPARE | | 1.00 | | FACP | 20A/1P | 70 |
| 73 20/ |)A/1P | SPARE | | | | AIR COMPRESSOR | 20A/1P | 72 |
| 75 20/ |)A/1P | SPARE | | | | SPARE | 20A/1P | 74 |
| 77 20/ |)A/1P | SPARE | | | | SPARE | 20A/1P | 76 |
| |)A/1P | SPARE | | | | SPARE | 20A/1P | 78 |
| |)A/1P | SPARE | | | | SPARE | 20A/1P | 80 |
| |)A/1P | SPARE | | | | SPARE | 20A/1P | 82 |
| 20/ | // V II | OI AILE | | | | SPARE | 20A/1P | 84 |

| | PANEL: TYPE: MOUNT: REMARKS: | I-LINE SURFACE | | | MCB: | 208Y/120, 3Ø, 4W 600A 22K | | |
|----------|---------------------------------------|-------------------|----------------|--------------|--------------|---------------------------------|----------|-----|
| CKT | BREAKER | LOAD DESCRIPTION | PHASE A | PHASE B | PHASE C | LOAD DESCRIPTION | BREAKER | СКТ |
| NO. 1 | SIZE | | (KVA) 18.00 | (KVA) | (KVA) | | SIZE | NO. |
| 3 | 225A/3P | PANEL A | 4.00 | 15.00 | | | | 2 |
| 5 | | | | 4.00 | 15.00 | VEHICLE LIFT | 60A/3P | 4 |
| | | | | | 4.00 | | | 6 |
| 7 | | | 1.50 1.20 | | | | | 8 |
| 9 | 30A/3P | LIFT STATION | | 1.50 1.20 | | CRANE | 20A/3P | 10 |
| 11 | | | | | 1.50 1.20 | | | 12 |
| 13 | 60A/2P | COMMPRESSOR | 3.00 1.50 | | | | | 14 |
| 15 | | | | 3.00 1.50 | | EWH-1 | 20A/3P | 16 |
| 17 | 50A/2P | WELDER | | | 4.20 1.50 | | | 18 |
| 19 | | | 4.20 4.20 | | | WELDER | 50A/2P | 20 |
| 21 | 25A/2P | EF-4 | | 1.00 4.20 | | WEEDER | 007421 | 22 |
| 23 | | | | 4.20 | 1.00 2.70 | ACCU-1 | 40A/2P | 24 |
| 25 | 15A/2P | ACCU-2 | 1.30 | | 2.10 | ACCU-1 | 40A/2P | |
| 27 | | | 2.70 | 1.30 | | FF 2 | 25 A /2D | 26 |
| 29 | 15A/2P | CF-1 | | 1.00 | 1.00 | EF-3 | 25A/2P | 28 |
| 31 | | | 1.00 | | 1.00 | | | 30 |
| 33 | 15A/2P | EUH-2 | 1.00 | <i></i> | | ECUH-1 | 15A/2P | 32 |
| 35 | | | | 1.00 | 1.00 | | | 34 |
| 37 | 15A/2P | GATE CONTROLLER | 1.00 | | 1.00 | EUH-1 | 15A/2P | 36 |
| 39 | | | 1.00 | <i>1.</i> 00 | | | | 38 |
| 41 | 15A/2P | GATE CONTROLLER | | 1.00 | 1.00 | EUH-3 | 15A/2P | 40 |
| | 137425 | OATE CONTROLLER | | | 1.00 | | | 42 |
| 43 | | | 1.00 | | | SPACE | 1P | 44 |
| 45 | 15A/2P | GATE CONTROLLER | | 1.00 | | SPACE | 1P | 46 |
| 47 | | | | | 1.00 | SPACE | 1P | 48 |
| 49 | 1P | SPACE | | | | SPACE | 1P | 50 |
| 51 | 1P | SPACE | | | | SPACE | 1P | 52 |
| 53 | 1P | SPACE | | | | SPACE | 1P | 54 |

| | | | DSURE | | VOLTAGE: MCB: AIC: | | | |
|------------|-----------------|------------------|------------------|------------------|--------------------------|-----------------------|------------------|------------|
| CKT NO. | BREAKER SIZE | LOAD DESCRIPTION | PHASE A (KVA) | PHASE B (KVA) | PHASE C (KVA) | LOAD DESCRIPTION | BREAKER SIZE | CKT NO. |
| 1 | 20A/1P | BUS HEATER | 1.80 | | | 5110115155 | | |
| 3 | 20A/1P | BUS HEATER | 1.80 | 1.80 | | BUS HEATER | 20A/1P | 2 |
| 5 | 20A/1P | BUS HEATER | | 1.80 | 1.80 1.80 | BUS HEATER BUS HEATER | 20A/1P 20A/1P | 6 |
| 7 | 20A/1P | BUS HEATER | 1.80 1.80 | | 1.80 | BUS HEATER | 20A/1P | 8 |
| 9 | 20A/1P | BUS HEATER | | 1.80 1.80 | | BUS HEATER | 20A/1P | 10 |
| 11 | 20A/1P | BUS HEATER | | | 1.80 1.00 | BUS HEATER | 20A/1P | 12 |
| 13 | 20A/1P | BUS HEATER | 1.80 1.80 | | | BUS HEATER | 20A/1P | 14 |
| 15 | 20A/1P | BUS HEATER | | 1.80 1.80 | | BUS HEATER | 20A/1P | 16 |
| 17 | 20A/1P | BUS HEATER | | | 1.80 1.80 | BUS HEATER | 20A/1P | 18 |
| 19 | 20A/1P | BUS HEATER | 1.80 1.80 | | | BUS HEATER | 20A/1P | 20 |
| 21 | 20A/1P | BUS HEATER | | 1.80 1.80 | | BUS HEATER | 20A/1P | 22 |
| 23 | 20A/1P | BUS HEATER | | | 1.80 1.80 | BUS HEATER | 20A/1P | 24 |
| 25 | 20A/1P | BUS HEATER | 1.80 1.80 | | | BUS HEATER | 20A/1P | 26 |
| 27 | 20A/1P | BUS HEATER | | 1.80 1.80 | | BUS HEATER | 20A/1P | 28 |
| 29 | 20A/1P | SPACE | | | | SPACE | 20A/1P | 30 |
| 31 | 20A/1P | SPACE | | | | SPACE | 20A/1P | 32 |
| 33 | 20A/1P | SPACE | | | | SPACE | 20A/1P | 34 |
| 35 | 20A/1P | SPACE | | | | SPACE | 20A/1P | 36 |
| 37 | 20A/1P | SPACE | | | | SPACE | 20A/1P | 38 |
| 39 | 20A/1P | SPACE | | | | SPACE | 20A/1P | 40 |
| 41 | 20A/1P | SPACE | | | | SPACE | 20A/1P | 42 |

| | MANUEACTURER?C CATALOG AUTORES | | LEC |) | \/OL TA OF | INPUT | DELLABIZO |
|------|---|---------------------|----------------|------------|-------------|---------|---|
| TYPE | MANUFACTURER'S CATALOG NUMBER | MOUNT | LUMENS | COLOR | VOLTAGE | WATTS | REMARKS |
| L01 | LITHONIA #JEBL-24000LM-GL-MVOLT-40K-80CRI-SCF240 METALUX, HE WILLIAMS | НООК | 24181 | 40K | 120/277 | 174 | CONTRACTOR SHALL PROVIDE AND INSTALL COMPATIBLE SWITCHING AND CABLING REQUIRED FOR 0-10V DIMMING, DIMMING DOWN TO 10% |
| L02 | LITHONIA #BLC-2X4-4000LM-80CRI-40K-ADSM-MIN10-ZT-MVOLT METALUX, HE WILLIAMS | RECESSED | 4034 | 40K | 120/277 | 32 | CONTRACTOR SHALL PROVIDE AND INSTALL COMPATIBLE SWITCHING AND CABLING REQUIRED FOR 0-10V DIMMING, DIMMING DOWN TO 10% |
| L03 | LITHONIA #CLX-L48-7000LM-SEF-FDL-MVOLT-GZ10405K-80CR-WH METALUX, HE WILLIAMS | SURFACE/ PENDANT | 6628 | 40K | 120/277 | 49 | MOUNTED BELOW DROPPED CEILING OR AS NOTED ON DRAWINGS. CONTRACTOR SHALL PROVIDE AND INSTALL COMPATIBLE SWITCHING AND CABLING REQUIRED FOR 0-10V DIMMING, DIMMING DOWN TO 10%. PROVIDE 10 FT AIRCRAFT CABLE WITH "Y" HANGER (ZACVH). |
| L04 | LITHONIA #BLC-2X2-3300LM-80CRI-40K-ADSM-MIN10-ZT-MVOLT METALUX, HE WILLIAMS | RECESSED | 3329 | 40K | 120/277 | 30 | |
| W01 | LITHONIA #WPX2-LED-30K-MVOLT-DDBXD METALUX, HE WILLIAMS | WALL | 6000 | 30K | 120/277 | 47 | CONTRACTOR SHALL PROVIDE AND INSTALL COMPATIBLE SWITCHING AND CABLING REQUIRED FOR 0-10V DIMMING, DIMMING DOWN TO 10% |
| WO1E | SAME AS WO1 EXCEPT WITH E14WC BATTERY PACK; TERMINATE TO LINE SIDE OF CIRCUIT SUCH | THAT UPON LOS | S OF POWER, LA | MPS ENERGI | ZE. BATTERY | PACK SI | HALL BE FACTORY INSTALLED. |
| W02E | LITHONIA #WPX1-LED-P2-30K-MVOLT-DDBXD-E14WC METALUX, HE WILLIAMS | WALL | 6000 | 30K | 120/277 | 47 | CONTRACTOR SHALL PROVIDE AND INSTALL COMPATIBLE SWITCHING AND CABLING REQUIRED FOR 0-10V DIMMING, DIMMING DOWN TO 10% |
| P01 | LITHONIA #DSX2-LED-P2-30K-T5M-MVOLT-RPA-HS-DDBXD (DUAL HEAD) McGRAW EDISON, GARDCO | POLE | 23182/HEAD | 30K | 120/277 | 370 | 22' ROUND STRAIGHT ALUMINUM POLE; MINIMUM WALL THICKNESS OF 0.156; WITH VIBRATION DAMPENERS, FINISH SHALL MATCH POLE HEAD. CONTRACTOR SHALL PROVIDE SEPARATE FUSE IN HAND BOX OF THE POLE BASE. |
| P02 | LITHONIA #DSX2-LED-P2-30K-T4M-MVOLT-RPA-HS-DF-DDBXD (DUAL HEAD) McGRAW EDISON, GARDCO | POLE | 23182 | 30K | 208 | 185 | 22' ROUND STRAIGHT ALUMINUM POLE; MINIMUM WALL THICKNESS OF 0.156; WITH VIBRATION DAMPENERS, FINISH SHALL MATCH POLE HEAD. CONTRACTOR SHALL PROVIDE SEPARATE FUSE IN HAND BOX OF THE POLE BASE. |
| P02 | LITHONIA #DSX2-LED-P2-30K-T4M-MVOLT-RPA-HS-DF-DDBXD (DUAL HEAD) McGRAW EDISON, GARDCO | POLE | 23182 | 30K | 208 | 185 | 22' ROUND STRAIGHT ALUMINUM POLE; MINIMUM WALL THICKNESS OF 0.156; WITH VIBRATION DAMPENERS, FINISH SHALL MATCH POLE HEAD. CONTRACTOR SHALL PROVIDE SEPARATE FUSE IN HAND BOX OF THE POLE BASE. |
| ЕМ | LITHONIA #ELM2-LED-HO-SD DUAL-LITE, SURE-LITE | WALL | - | 3000k | 120 | 3 | - |
| EX1 | LITHONIA #LQM-S-W-R-ELN-SD DUAL-LITE, SURE-LITE | UNIVERSAL | - | RED | 120 | 1.5 | - |

| THESE REMARKS | APPLY | TO | ALL | LUMINAIRE | TYPE |
|---------------|-------|----|-----|-----------|------|

- LUMINAIRES HAVE BEEN SPECIFIED ON A PERFORMANCE BASIS. LUMINAIRES LISTED ARE APPROVED, EQUALS MUST BE SUBMITTED FOR APPROVAL PRIOR TO BID.
- •• LUMINAIRE SHALL BE COMPARABLE IN APERTURE SIZE
- •• LED'S SHALL HAVE THE SAME KELVIN TEMPERATURE •• LUMINAIRE SHALL MEET OR EXCEED THE LUMEN OUTPUT OF SPECIFIED LUMINAIRE
- •• LUMINAIRE SHALL <u>NOT</u> EXCEED THE WATTAGE BY MORE THAN 10% •• PROVIDED SUBMITTAL SHALL INCLUDE INFORMATION ON LM-79/LM-80 TESTING, NUMBER OF LED'S AND ENGINES, DRIVER INFORMATION (INCLUDING DRIVE CURRENT), SYSTEM WATTAGE, AND WARRANTY INFORMATION •• ANY APPROVED LUMINAIRES SHALL BE LISTED DURING THE ADDENDA PROCESS. NO VERBAL APPROVALS SHALL BE GIVEN OR ACKNOWLEDGED.
- REFER TO FLOOR PLAN FOR SINGLE OR DUAL SWITCHING REQUIREMENTS LISTED EMERGENCY BATTERY PACKS/TRANSFER DEVICES SHALL BE FACTORY MOUNTED WITHIN LUMINAIRE AND TERMINATED AS REQUIRED
- UNLESS SPECIFICALLY NOTED, LED DRIVERS SHALL BE INTERNAL TO THE FIXTURE, NOT REMOTE FIXTURES SHALL BE SUPPLIED WITH FACTORY INSTALLED WHIPS. ADDITIONAL EXITS AND EMERGENCY LIGHTING MAY BE REQUIRED PENDING AHJ REVIEW, ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ADDITIONAL FIXTURES AS REQUIRED.
- MATERIAL ALLOWANCES LISTED ARE ONLY FOR THE COST OF THE LUMINAIRE OR LUMINAIRE COMBINATION AS NOTED. BASE BID SHALL INCLUDE ALL HARDWARE, CONDUIT, WIRE AND LABOR NEEDED FOR A COMPLETE AND FUNCTIONAL INSTALLATION OF ALL LUMINAIRES.
- ELECTRICAL CONTRACTOR SHALL MOUNT ALL SURFACE MOUNTED EXIT LIGHTS 6 INCHES ABOVE DOOR HEADER. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING EXIT SIGN COLOR IN EXISTING BUILDING, AND ENSURE THAT ANY EXIT SIGNS THAT ARE ADDED/REPLACED IN THE BUILDING SHALL MATCH EXISTING EXIT SIGN COLOR.

| OCCUPANCY SENSOR SCHEDULE | | | | | | |
|---------------------------|------------------------------|---------|---|--|--|--|
| SYMBOL | MANUFACTURER | MOUNT | COVERAGE REMARKS | | | |
| OS1 X | SENSOR SWITCH #CM-PDT-9 | CEILING | DUAL TECHNOLOGY; ISOLATED RELAY; SMALL MOTION: 12ft | | | |
| | SENSOR SWITCH #WV-PDT-KIT | WALL | DUAL TECHNOLOGY; WALL MOUNT; SMALL MOTION: 40ft - LRG MOTION: 70ft; ISOLATED RELAY | | | |
| \$os \$x | SENSOR SWITCH #WSX-PDT | WALL | AUTOMATIC SWITCH-DUAL TECHNOLOGY SWITCH BUTTON; 180°; SMALL MOTION: 20ft - LRG MOTION: 36ft | | | |
| \$ ^D os | SENSOR SWITCH #WSX-PDT-D | WALL | AUTOMATIC SWITCH-DUAL TECHNOLOGY, DIMMABLE SWITCH; 180°; SMALL MOTION: 20ft - LRG MOTION: 36ft (PHOTOSENSOR ACTIVATED FOR DAYLIGHT CONTROL) | | | |

GENERAL SENSOR NOTES:

- ALL SENSORS SHALL HAVE TIME DELAY AND SENSITIVITY ADJUSTMENT CAPABILITIES.
- ONE POWER PACK IS REQUIRED FOR EVERY SENSOR.
- CEILING MOUNTED OCCUPANCY SENSORS SHOULD BE LOCATED A MINIMUM OF SIX FEET FROM HVAC SUPPLY/RETURN OCCUPANCY SENSORS MOUNTED OVER A DOOR MUST BE PLACED ONE FOOT INSIDE THE THRESHOLD.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL SENSITIVITY AND TIME DELAY SETTINGS.

EQUAL MANUFACTURER'S:

GENERAL CONTRACTOR.

BUS GARAGE

- SENSOR SWITCH IS THE BASIS OF DESIGN CRITERIA UNDER PARAMETERS LISTED.
- ACCEPTED MANUFACTURER'S: GREENGATE, HUBBELL, LUTRON, LEVITON, AND WATT STOPPER, UNLESS NOTED OTHERWISE. ACCEPTED MANUFACTURER'S SHALL MEET OR EXCEED DESIGN PARAMETERS. IF PARAMETERS CAN NOT BE MATCHED, PROVIDE DETAILED SUBMITTALS FOR ENGINEERING REVIEW AND APPROVAL INDICATING NUMBER OF ADDITIONAL SENSORS REQUIRED TO MEET PARAMETERS WITH A 30% OVERLAP OF COVERAGE. ANY ADDITIONAL SENSORS REQUIRED TO MEET PARAMETERS ALONG WITH ANY REQUIRED HARDWARE, WIRING, ACCESSORIES AND LABOR SHALL BE AT THE EXPENSE OF THE EQUIPMENT SUPPLIER.
- PACKAGE SHALL BE SUPPLIED BY SINGLE MANUFACTURER CAPABLE OF MEETING 100% OF SPECIFICATION.
- ELECTRICAL CONTRACTOR SHALL PROVIDE MATERIAL AND LABOR AS REQUIRED FOR THE COMPLETE INSTALLATION OF (2) ADDITIONAL OCCUPANCY SENSORS AND ASSOCIATED POWER PACKS OF EACH TYPE TO BE LOCATED BY THE ÈNGINEER DURING CONSTRUCTION.

ELECTRICAL RISER DIAGRAM NOTES

- PRIMARY SERVICE CONDUIT; ELECTRICAL CONTRACTOR TO PROVIDE ALL LABOR AND MATERIAL REQUIRED TO PROVIDE AND INSTALL A 4" CONDUIT FROM PAD-MOUNTED TRANSFORMER TO UTILITY EASEMENT; REFER TO SHEET CE1.1; COORDINATE ALL WORK WITH LOCAL UTILITY COMPANY AND GENERAL CONTRACTOR.
- 2) PAD-MOUNTED TRANSFORMER PROVIDED AND INSTALLED BY LOCAL UTILITY COMPANY. CONCRETE TRANSFORMER PAD; ELECTRICAL CONTRACTOR TO PROVIDE ALL LABOR AND MATERIAL REQUIRED FOR A
- CONCRETE TRANSFORMER PAD PER LOCAL UTILITY COMPANY SPECIFICATIONS. (4) PRIMARY SERVICE CONDUIT; ELECTRICAL CONTRACTOR TO PROVIDE ALL LABOR AND MATERIAL REQUIRED TO PROVIDE AND INSTALL A 4" CONDUIT FROM METER BASE TO UTILITY POLE, UP UTILITY POLE ON STAND-OFF'S, AND WEATHERHEAD AT TOP; REFER TO SHEET CE1.1; COORDINATE ALL WORK WITH LOCAL UTILITY COMPANY AND
- (5) METER BASE; ELECTRICAL CONTRACTOR TO PROVIDE ALL LABOR AND MATERIAL REQUIRED TO PROVIDE AND INSTALL A METER BASE PER LOCAL UTILITY COMPANY SPECIFICATIONS.
- (6) GROUNDING; THE ELECTRICAL CONTRACTOR TO PROVIDE ALL LABOR AND MATERIAL REQUIRED FOR GROUNDING PER NEC ARTICLE 250.
- (7) POLE-MOUNTED TRANSFORMERS PROVIDED AND INSTALLED BY LOCAL UTILITY COMPANY.

1. HAND-OFF AUTO SELECTION 4. PROVIDE INTERLOCKS 2. RED LED "RUN" LIGHT 5. PFC CAPACITOR LUGS 3. SOLID STATE OVERLOADS 6. LEDs PER SPECIFICATIONS PANEL "MDP" 9 E5.1

NOTE CONDUIT, CONDUCTORS, GROUND CONDUIT, CONDUCTORS, GROUND \(1 \) | 3/4"C, 2-#10, 1-#10 (28) | 3"C, 3-#350KcMil, 1-#4 (2) | 3/4"C, 3-#10, 1-#10 (29) 3"C, 4-#350KcMil, 1-#4 (3) 3/4°C, 4-#10, 1-#10 (30) | 4"C, 3-#500KcMil, 1-#3 (31) | 4"C, 4-#500KcMil, 1-#3 3/4"C, 2-#8, 1-#10 3/4°C, 3-#8, 1-#10 (32) 4"C, 3-#600KcMil, 1-#3 1"C, 4-#8, 1-#10 ⟨33⟩ | 4"C, 4-#600KcMil, 1-#3 (34) 2 SETS OF (2 1/2"C, 3-#4/0, 1-#2) 1"C, 2-#6, 1-#8 (35) | 2 SETS OF (2 1/2"C, 4-#4/0, 1-#2) 1"C, 3-#6, 1-#8 1 1/4°C, 4-#6, 1-#8 (36) 2 SETS OF (3"C, 3-#250KcMil, 1-#2) 1 1/4°C, 3-#4, 1-#8 2 SETS OF (3"C, 4-#250KcMil, 1-#2) (38) | 2 SETS OF (3"C, 3-#350KcMil, 1-#1) 1 1/4°C, 4-#4, 1-#8 (39) | 2 SETS OF (3"C, 4-#350KcMil, 1-#1) 1 1/4°C, 3-#3, 1-#8 (40) 2 SETS OF (4"C, 3-#500KcMil, 1-#1/0) 1 1/4°C, 4-#3, 1-#8 1 1/4°C, 3-#2, 1-#6 41 2 SETS OF (4"C, 4-#500KcMil, 1-#1/0) 1 1/2°C, 4-#2, 1-#6 42 | 2 SETS OF (4"C, 3-#600KcMil, 1-#1/0) (43) 2 SETS OF (4"C, 4-#600KcMil, 1-#1/0) 1 1/2°C, 3-#1, 1-#6 2"C, 4-#1, 1-#6 44 3 SETS OF (4"C, 3-#350KcMil, 1-#2/0) (18) 2"C, 3-#1/0, 1-#6 (45) | 3 SETS OF (4"C, 4-#350KcMil, 1-#2/0) (46) 3 SETS OF (4"C, 3-#600KcMil, 1-#3/0) 2"C, 4-#1/0, 1-#6 2"C, 3-#2/0, 1-#6 47 3 SETS OF (4"C, 4-#600KcMil, 1-#3/0) 2°C, 4-#2/0, 1-#6 [SERVICE ENTRANCE SETS] (22) | 2"C, 3-#3/0, 1-#6 48 2 SETS OF [4"C, 4-#600KcMil, W/(1) 4" SPARE] (23) 2 1/2"C, 4-#3/0, 1-#6 (49) | 3 SETS OF [4"C, 4-#600KcMil, W/(1) 4" SPARE] 2 1/2°C, 3-#4/0, 1-#4 4 SETS OF [4"C, 4-#600KcMil, W/(1) 4" SPARE] (25) 2 1/2°C, 4-#4/0, 1-#4 5 SETS OF [4"C, 4-#600KcMil, W/(1) 4" SPARE] 2 1/2°C, 3-#250KcMil, 1-#4 (52) | 6 SETS OF [4"C, 4-#600KcMil, W/(1) 4" SPARE] (53) | 7 SETS OF [4"C, 4-#750KcMil, W/(1) 4" SPARE] 3"C, 4-#250KcMil, 1-#4 REFER TO SPECIFICATIONS FOR CONDUIT TYPE REQUIREMENTS PER RESPECTIVE APPLICATION. ALL CONDUCTORS SHALL HAVE FACTORY APPLIED COLOR THE ENTIRE LENGTH OF THE INSULATION TO READILY IDENTIFY IT AS A SPECIFIC PHASE,

POWER CONDUIT AND CONDUCTORS SCHEDULE (CU)

| MOTOR CONTROLLER SCHEDULE | | | | | | | | | | |
|---------------------------|------------------|---------|----------------|-------|-------|--------------|--------------|---------------|-----------|-------------|
| STR TR. | TR TR. EQUIPMENT | ROOM | EQUIPMENT DATA | | | STARTER DATA | | | 551115116 | |
| NO. SERVED | LOCATION | HP | FLA | VOLTS | PHASE | TYPE | NEMA SIZE | NEMA ENCL. | REMARKS | |
| MS-1 | AIR-COMPRESSOR | RM #108 | 5 | 28 | 208 | 1 | FVNR | 0 | 1 | 1,2,3,4,5,6 |
| REMARKS: | | | | | | | | | | |

7. VOLTAGE SENSING PHASE FAILURE RELAY

NEUTRAL, OR EQUIPMENT GROUNDING CONDUCTOR AT ANY POINT ALONG IT'S ENTIRE LENGTH.



ENTE

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SCO ENGINEERING. LLC SOLUTIONS PROVIDED • PROBLEMS SOLVED

drawings shall have precedence over scale dimensions

shown on these drawings. Shop drawings shall be submitted

(260) 436-9213 (260) 432-5481 fax

scofw@sco-llc.com

FORT WAYNE

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Electrical Details & Schedules

date: March 2, 2022 project: 473003 (212600) coordinator: JM E6.1 drawn: SJB

checked: TPO

ELECTRICAL RISER DIAGRAM

E5.1

 \bigcirc M

UNDERGROUND -

BUS HEATER

| ITEM | REQUIREMENTS | ACCEPTED MANUFACTURERS OF | |
|---|--|--------------------------------|--|
| DATA/PHONE CABLE | DATAGAIN CATEGORY 6, BLUE, PLENUM RATED #66-240-2B OR | APPROVED EQUALS SUPERIOR ESSEX | |
| DATA/THONE CABLE | APPROVED EQUAL FROM SAME MANUFACTURER | SOF ENGIN ESSEX | |
| WIRELESS ACCESS CABLE | CATEGORY 6A, BLUE, PLENUM RATED #6H-272-2B OR APPROVED EQUAL FROM SAME MANUFACTURER. | SUPERIOR ESSEX | |
| FIBER OPTIC CABLE | 6-STRAND, PLENUM RATED, INTERLOCK ARMORED, TIGHT BUFFER, OM4 MULTIMODE #L4006P401 | SUPERIOR ESSEX | |
| FIBER OPTIC PATCH PANEL | - MDF: 2U RACK MOUNT FIBER CABINET, #OR-FC02U-P - IDF: 1U RACK MOUNT FIBER CABINET, #OR-FC01U-P - PROVIDE WITH BLANKS, ORTRONICS #OR-OFP-BLANK | ORTRONICS | |
| FIBER OPTIC TERMINATIONS | SC MULTIMODE AQUA ADAPTERS WITH CERAMIC ALIGNMENT SLEEVES, #OR-OFP-SCD12LC | ORTRONICS | |
| JACKS-CATEGORY 6 | CLARITY CATEGORY 6 TRACJACK, 8P8C, T568A/B, 180 DEGREE, BLACK, #OR-TJ600-00 | ORTRONICS | |
| JACKS-CATEGORY 6A | CLARITY CATEGORY 6A TRACJACK, 8P8C, T568A/B, 180 DEGREE, YELLOW, #OR-TJ6A-44 | ORTRONICS | |
| FACEPLATES | - ORTRONICS SINGLE GANG, 6-PORT PLASTIC, TRACJACK FACELPATE, CLOUD WHITE, #OR-40300545-88 - WIREMOLD, ORTRONICS 6-PORT PLASTIC, TRACJACK FACEPLATE, CLOUD WHITE #5507-6TJ | ORTRONICS, WIREMOLD | |
| FACEPLATE ACCESSORIES | - TRACJACK BLANK MODULES, CLOUD WHITE, #OR-42100002-88 | ORTRONICS | |
| ABOVE CEILING TERMINATIONS | TRACJACK PLASTIC SURFACE MOUNT BOX, 2-PORT, CLOUD WHITE, #OR-404TJ2-88 | ORTRONICS | |
| PATCH PANEL- CATEGORY 6 | - CLARITY 6 48-PORT CATEGORY 6, 6-PORT MODULES, PATCH PANEL #OR-PHD66U48 - CLARITY 24-PORT CATEGORY 6, 6-PORT MODULES, PATCH PANEL #OR-PHD66U24 (THE 24-PORT PANEL SHALL ONLY BE USED FOR CLOSET TO CLOSET BACKBONE CABLING.) | ORTRONICS | |
| PATCH PANEL- CATEGORY 6A | CLARITY 6A/10G 48-PORT CATEGORY 6A, 6-PORT MODULES, PATCH PANEL #OR-PHD6AU48 | | |
| PATCH CORDS | ORTRONICS | | |
| WAP | - WIRELESS ACCESS POINT: CISCO #1815i | AS NOTED | |
| RACK | APC NETSHELTER 2-POST OPEN FRAME RACK, BLACK, #AR201. RACK U'S ARE TO BE NUMBERED ON BOTH RAILS (LEFT AND RIGHT) AND FRONT AND BACK. | APC | |
| RACK CABLE MANAGER | 6" VERTICAL CABLE MANAGERS DUAL SIDED #OR-DVMS706 | ORTRONICS | |
| CABLE TRAY | - PW LADDER CABLE TRAY, 6" RUNG SPACING, 3" LOAD DEPTH, 12" WIDE #06-4A12B-S144-12 - PW LADDER CABLE TRAY, 6" RUNG SPACING, 3" LOAD DEPTH, 18" WIDE #06-4A12B-S144-18 - PW LADDER CABLE TRAY, 6" RUNG SPACING, 3" LOAD DEPTH, 24" WIDE #06-4A12B-S144-24 | LEGRAND | |
| CABLE TRAY ACCESSORIES | - PW 90 DEGREES CONNECTOR TO SECURE LADDER CABLE TRAY TO WALL, #4A-90SP-S6 - J-BOLT TO SECURE LADDER CABLE TRAY TO TOP OF RACK #EZJB 5/16 EZ PW LADDER CABLE TRAY DROP OUT KIT #A-DO-06-S6 | LEGRAND | |
| LOW VOLTAGE CABLE SUPPORT / MANAGEMENT SYSTEM | THE HOOK H-233/H-433 - COLOR CODED STACKING HOOK SYSTEM. | MONOSYSTEMS | |
| HDMI CABLES | - RAPIDRUN OPTICAL RUNNER; LENGTH AS REQUIRED WITH A 5' SERVICE LOOP #2212-CUSTOM | - | |
| HDMI CONNECTORS | - RAPIDRUN HDMI RECEIVER FLYING LEAD AT DISPLAY END #2212-60131-001 - RAPIDRUN HDMI TRANSMITTER FLYING LEAD AT INPUT END #2212-60175-001 | - | |

ELECTRICAL COMMUNICATION SPECIFICATIONS REQUIREMENTS FOR COMMUNICATIONS CABLING AND PATHWAYS 1. TERMINATE CATEGORY CABLES PER EIA/TIA 568B STANDARDS. 2. INSTALL PATCH PANELS NO LOWER THAN 18" ABOVE FINISHED FLOOR. DO NOT INSTALL PATCH PANELS IN THE EQUIPMENT ONLY RACK. COORDINATE PATCH PANEL PLACEMENT WITH FWCS IT DEPARTMENT. 3. COMPLY WITH BICSI TDMM AND TIA-569-B FOR SEPARATION FROM POTENTIAL EMI SOURCES. 4. ALL WALL AND FLOOR/CEILING PENETRATIONS REQUIRE A SLEEVE. FIRE RATED WALLS AND FLOOR/CEILING PENETRATIONS REQUIRE FIRE RATED SLEEVE. CONTRACTOR MAY REUSE EXISTING SLEEVES. 5.DO NOT SHARE SLEEVES AND PATHWAYS WITH FIRE ALARM CABLE. 6. THE CONTRACTOR IS RESPONSIBLE FOR FIRE STOPPING ANY PENETRATIONS PUT IN FLOOR, CEILINGS, OR FIRE RATED 7. INSTALL CABLES WITH A 15' SERVICE LOOP AT EACH END. PROVIDE A J-HOOK AT ALL WORKSTATION END SERVICE LOOP LOCATIONS. 8. SUPPORT CABLES AT A MINIMUM OF EVERY 5'. 9. CABLE SHALL NEVER BE SUPPORTED BY CEILING GRID AND/OR CEILING TILES. PROVIDE ADEQUATE SUPPORTS. 10. ALWAYS ROUTE CABLES AT PERPENDICULAR AND PARALLEL TO THE DOOR WALL. NO CABLES SHALL BE RAN IN A DIAGONAL MANNER. MAINTAIN A MINIMUM OF A 1" BEND RADIUS. 11. NEVER SUPPORT CABLES BY STRUCTURE, PIPING, DUCT WORK, CONDUIT, SPRINKLER PIPING, ETC. 12. SUPPORT CABLES AT LEAST 2' ABOVE SUSPENDED CEILING UNLESS 2' IS UNAVAILABLE, THEN CABLE SHALL BE SUPPORTED AS HIGH AS POSSIBLE. 13. TERMINATE DATA CABLES TO 48-PORT PATCH PANELS IN MDF/IDF. CONTRACTOR SHALL NOT USE 24-PORT PATCH PANELS EXCEPT FOR BACKBONE CABLING BETWEEN MDF/IDFS. 14. CONTRACTOR SHALL USE EITHER REAR MOUNTED HORIZONTAL CABLE MANAGERS OR LACING BARS FOR CABLE MANAGEMENT ON THE BACK SIDE OF THE RACKS. 15. IN THE MDF/IDF USE ONLY VELCRO FOR SECURING CABLES TOGETHER. NO ZIP TIES MAY BE USED. 16 INCORPORATE INTO DOCUMENTS (5) FIVE EXTRA DATA DROPS INCLUDING ALL LABOR, MATERIAL, TESTING AND TERMINATION FOR PLACEMENT BY OWNER DURING CONSTRUCTION. 17. INCORPORATE INTO DOCUMENTS (3) THREE EXTRA WIRELESS ACCESS POINTS INCLUDING ALL LABOR, MATERIAL, TESTING AND TERMINATION FOR PLACEMENT BY OWNER DURING CONSTRUCTION. REQUIREMENTS FOR COMMUNICATIONS LABELING 1. ALL CABLES SHALL BE NUMBERED PRIOR TO RUNNING THE CABLE. 2. PERMANENTLY LABEL CABLES WITH PANDUIT TURN-TELL LABELS ON CLOSET END. 3. LABEL EACH MDF/IDF RACK WITH EITHER MDF OR THE IDF NUMBER. 4. EACH PATCH PANEL SHALL BE LABELED ALPHABETICALLY IN SEQUENTIAL ORDER STARTING WITH 'A' ON THE TOP LEFT MOST PATCH PANEL 5. EACH FIBER OPTIC PATCH PANEL SHALL BE LABELED WITH THE MDF/IDF LOCATION THAT THE CABLE IS BEING TERMINATED. ALSO INCLUDE THE TYPE OF FIBER IN THE LABEL. 6.FOR CABLES THAT TERMINATE ABOVE THE CEILING PROVIDE A LABEL FOR THE SURFACE MOUNTED BOX AND THE CEILING GRID SO THAT IT CAN BE SEEN FROM THE FLOOR. 7. WORKSTATION END LABELING REQUIREMENTS: A. FONT - HELVETICA OR GENEVA B. PITCH - 10 B. PRINT IN BOLD D. CLEARLY DISTINGUISH ZERO "O" AND THE LETTER "O". 8. WORKSTATION END LABELING SCHEME: XX = TWO-DIGIT NUMBER WHERE MDF = 00, IDF1 = 01, IDF2 = 02...Y = PATCH PANEL ID. THE TOP LEFT MOST PATCH PANEL STARTS WITH 'A' AND CONTINUES IN SEQUENTIAL ZZ = TWO-DIGIT NUMBER THAT IS THE SAME NUMBER ON THE PATCH PANEL LABEL. 1-48. REQUIREMENTS FOR MDF/IDF DESIGN 1. MDF/IDF LOCATIONS A. CLEARANCE OF 3' SHALL BE PROVIDED IN THE FRONT OF EACH RACK AND BEHIND EACH RACK. B. OUTSIDE CLEARANCE OF 2' SHALL BE PROVIDED NEXT TO THE PATCH PANEL RACK FOR ACCESS BEHIND THE RACKS. C. FINAL APPROVAL REQUIRED BY THE IT DEPARTMENT. D. PROVIDE TWO (2) DEDICATED 20A DUPLEX RECEPTACLES IN EACH MDF/IDF WITHIN 6' OF THE BACK SIDE OF THE PROVIDE AND INSTALL 6-STRAND (OM3) FIBER IN PLENUM-RATED INNER-DUCT CABLE OR 6-STRAND, 10GBIT OPTIMIZED, 50/125 (OM3), PLENUM-RATED, ARMORED, MULTI-MODE FIBER OPTIC CABLE, TERMINATED WITH SC CONNECTORS FROM MDF TO IDF.

RESPECTIVE CONTRACTOR PRIOR TO ROUGH-IN. EXCEPT IN MECHANICAL/ELECTRICAL ROOMS OR WITH SPECIFIC PERMISSION FROM ARCHITECT/ENGINEER. 2. PROVIDE A MINIMUM OF TWO (2) 2-POST RACKS FOR EACH MDF/IDF CLOSET. SHALL BE PERFORMED BY PROPER CORRESPONDING ON-SITE CONTRACTOR AND PAID FOR BY ELECTRICAL CONTRACTOR, REFER TO ENTIRE SET OF DRAWINGS AND SPECIFICATIONS FOR COORDINATION. C. DESIGN MORE RACKS AS REQUIRED PER PATCH PANEL REQUIREMENTS. PROVIDE COMPLETE NEW ELECTRICAL SERVICE. 3. DESIGN A MINIMUM OF 20% SPARE CAPACITY FOR PATCH PANELS. REQUIRED TO ACCOMMODATE ANY NEW CONSTRUCTION, UNLESS OTHERWISE NOTED. 4. PROVIDE TWO (2) CATEGORY 6 CABLES BETWEEN THE MDF AND EACH IDF LOCATION. TERMINATE TO A 24-PORT PATCH 5. DESIGN AND LAYOUT HALLWAY PATHWAYS USING EITHER CABLE TRAY OR J-HOOKS. THAT MAY INTERFERE WITH ELECTRICAL CONSTRUCTION. AND WIRE AND REPLACE WITH NEW AS INDICATED ON PLANS. 2. PERFORM THE FOLLOWING COPPER TESTS ACCORDING TO TIA/EIA-568-B.1 AND TIA/EIA-568-B.2: LISTING AND LABELING IS AVAILABLE.

FIRE ALARM SPECIFICATIONS

1. PROVIDE AN AS-BUILT DRAWING THAT INCLUDES THE ROOM DESIGNATOR, DROP ID AND IF APPLICABLE THE ACCESS

A COMPLETE AND FULLY FUNCTIONAL FIRE ALARM SYSTEM SHALL BE PROVIDED AND INSTALLED AS INDICATED ON

CHECKOUT INCLUDING STATE FILINGS.

A. ONE RACK FOR EQUIPMENT.

PANEL ON EACH END.

REQUIREMENTS FOR TESTING

A. WIRE MAP.

C. INSERTION LOS

D. NEXT LOSS.

E. PSNEXT LOSS

J. DELAY SKEW.

I. PROPAGATION DELAY

<u>REQUIREMENTS FOR AS-BUILTS</u>

3. PERFORM THE FOLLOWING FIBER OPTIC TESTS PER TIA-568-C.1:

I. TEST AT 850 NM AND 1300 NM IN BOTH DIRECTIONS.

4. PROVIDE PDF TEST RESULTS TO THE OWNER ON REMOVABLE MEDIA.

II. ATTENUATION TEST RESULTS SHALL BE LESS THAN 2.0 DB.

A. LINK END-TO-END ATTENUATION TESTS

POINT ID OR CAMERA NUMBER FOR EACH LOCATION.

B. LENGTH.

F. ELFEXT

G. PSELFEXT. H. RETURN LOSS.

1. TEST EACH DATA OUTLET.

B. ONE RACK FOR PATCH PANELS.

DRAWINGS AND AS DESCRIBED HEREIN. FIRE ALARM SYSTEM SHALL BE COMPLIANT WITH APPLICABLE VERSION OF NFPA 72 AND ALL STATE AND LOCAL CODES. FIRE ALARM SYSTEM VENDOR SHALL INCLUDE ON-SITE SERVICES OF A NICET LEVEL THREE CERTIFIED TECHNICIAN FOR ASSISTANCE TO THE INSTALLATION CONTRACTOR FOR FIRE ALARM CONTROL PANEL COMMISSIONING AND FINAL SYSTEM

FIRE ALARM SYSTEM VENDOR SHALL MAINTAIN A FACTORY AUTHORIZED SERVICE ORGANIZATION WITHIN 50 MILES OF THE PROJECT SITE WHICH AFFORDS THE OWNER 24 HOUR SERVICE WITH A 2 HOUR RESPONSE TIME. FIRE ALARM SYSTEM SHALL BE WARRANTED FOR A PERIOD OF 1 YEAR INCLUDING ANY STATE REQUIRED INSPECTIONS, TESTS, AND FILINGS.

FIRE ALARM SYSTEM SHALL BE A FULLY ADDRESSABLE POWER-LIMITED ELECTRICALLY SUPERVISED FIRE DETECTION SYSTEM WITH A MINIMUM OF 100 ADDRESS POINTS. EXTENSION PANELS SHALL BE ADDED TO ACCOMMODATE NOTIFICATION CIRCUITS AS REQUIRED. BATTERY BACK-UP SHALL BE PER NFPA 72 MINIMUM REQUIREMENTS.

NOTIFIER - FIRE WARDEN 100 EDWARDS - QUICK START

SYSTEM SHALL INCLUDE AN AUTO-DIALER WITH 8 CHANNELS (8 PHONE NUMBERS) AND 4 SEPARATE RECORDABLE MESSAGES. (UNITED SECURITY PRODUCTS AD-2000F)

FIRE ALARM SYSTEM ANNUNCIATOR SHALL BE GRAPHIC STYLE WITH LED DISPLAY.

HORN/STROBES SHALL BE UL LISTED FOR PROTECTIVE SERVICE AND PROVIDE STROBE CANDELA OUTPUT NOTED ON DRAWINGS AND 103dBA SOUND OUTPUT LEVEL FROM HORN.

STROBES SHALL BE UL LISTED FOR PROTECTIVE SERVICE AND PROVIDE STROBE CANDELA OUTPUT NOTED ON DRAWINGS. CANDELA RATINGS NOTED ON THE DRAWING ARE AN OFF-AXIS MEASUREMENT PER SECTION 4 OF NFPA 72, EACH DEVICE IS STILL REQUIRED TO MEET THE ADA 75cd MINIMUM ON-AXIS MEASUREMENT. ALL INITIATING DEVICES SHALL BE ADDRESSABLE.

MANUAL PULL STATIONS SHALL BE OF DOUBLE-ACTION CONSTRUCTION.

SAME DIMENSIONS AS THE DEVICE.

DETECTORS SHALL BE SOLID STATE PHOTOELECTRIC TYPE OR FIXED TEMPERATURE HEAT TYPE AS INDICATED.

BEAM DETECTORS SHALL BE TWO-COMPONENT INFRARED DETECTORS CONSISTING OF A SEPARATE TRANSMITTER AND

DUCT MOUNTED DETECTORS SHALL BE SOLID STATE PHOTOELECTRIC TYPE AND SHALL INCLUDE REQUIRED MOUNTING, AIR SAMPLING, AND HVAC UNIT CONTROL COMPONENTS AND LED REMOTE INDICATORS WHEN SHOWN ON DRAWINGS. PIV AND TAMPER/FLOW VALVES WILL BE PROVIDED AND INSTALLED BY ANOTHER CONTRACTOR, PROVIDE MONTORING

COMPONENTS AS REQUIRED WHEN SHOWN ON DRAWINGS. HOLD OPENS SHALL BE 120V MAGNETIC TYPE WITH BRUSHED ALUMINUM FINISH, FLUSH MOUNTED DESIGN.

FIRE ALARM SYSTEM CABLING SHALL HAVE A PLENUM RATED JACKET AND MAY BE INSTALLED AS OPEN CABLE PROPERLY SUPPORTED BY THE BUILDING STRUCTURE ABOVE ACCESSIBLE CEILINGS. WHERE THERE IS OPEN STRUCTURE (NO CEILINGS) OR CEILINGS ARE NOT ACCESSIBLE, CABLING SHALL BE INSTALLED IN CONDUIT.

BE INSTALLED A MINIMUM OF 1" IN DIAMETER. PROVIDE BOXES BY MANUFACTURER FOR SURFACE MOUNTED DEVICES WHEN SHOWN ON EXISTING WALLS THAT HAVE THE

WHERE FIRE ALARM CABLE PENETRATES WALLS OR FLOORS, EMT SLEEVES WITH ARLINGTON INDUSTRIES BUSHINGS SHALL

GENERAL ELECTRICAL NOTES

VERIFY ALL DIMENSIONS FROM THE ARCHITECTURAL PLANS.

DESIGN CHANGES PRIOR TO ROUGH-IN.

REMOTE OUTLET FOR RECEPTACLE CIRCUITS).

DIMENSIONS SHOWN OR NOTED FOR OUTLET BOXES AND DEVICES SHALL BE TO THE BOTTOM OF THE BOX. COORDINATE LOCATION OF LIGHT FIXTURES IN AREAS OF MECHANICAL DUCTWORK AND PIPING WITH MECHANICAL CONTRACTOR. RELOCATE LIGHT FIXTURES, WIRING AND CONDUIT IF NECESSARY AS DIRECTED BY THE

VERIFY LOCATION OF ALL BACK BOXES IN LABORATORY EQUIPMENT AND BUILT-IN FURNITURE WITH EQUIPMENT SUPPLIER BEFORE ROUGH-IN. CIRCUIT ARCS SHOWN FROM LIGHT SWITCH TO LIGHT SWITCH INDICATE BRANCH CIRCUIT FEED FOR POWER, SWITCH-LEG

BRANCH BETWEEN FIXTURES AND INTERLOCK (TRAVELERS) BETWEEN SWITCHES SHALL BE AS REQUIRED. VERIFY HEIGHT AND LOCATION OF RECEPTACLES BEHIND ELECTRIC WATER COOLERS WITH THE MECHANICAL CONTRACTOR

THE ELECTRICAL DRAWINGS ARE FOR LAYOUT PURPOSES AND DIAGRAMMATIC IN NATURE. REFER TO THE ENTIRE CONSTRUCTION DRAWING SET AND SPECIFICATIONS FOR GUIDANCE ON DIMENSIONS, CEILING HEIGHTS, DOOR SWINGS ROOM FINISHES, STRUCTURAL DETAILS, LOCATIONS OF DUCTWORK, PIPING AND STRUCTURAL MEMBERS. INSTALL THE ELECTRICAL SYSTEMS SO AS NOT TO INTERFERE WITH THE INSTALLATION OR FUNCTION OF ANOTHER DISCIPLINES WORK.

AT NO TIME SHALL A BACK-TO-BACK DEVICE BOX BE USED, DEVICES THAT APPEAR DIAGRAMATICALLY BACK-TO-BACK ON THE DRAWINGS SHALL BE ROUGHED-IN ON OPPOSITE SIDES OF A FRAMING MEMBER OR IN SEPARATE CMU CELLS. ALL DIMENSIONS OF EXISTING CONSTRUCTION ARE APPROXIMATE. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL NECESSARY FIELD MEASUREMENTS OF EXISTING STRUCTURES, AND EQUIPMENT TO VERIFY DIMENSIONS SHOWN ON THE DRAWINGS PRIOR TO BID. PROVIDE PROPER DIMENSIONS NOT SHOWN PRIOR TO EQUIPMENT FABRICATION. ALL COST FOR

MODIFICATIONS OF NEW CONSTRUCTION DUE TO LACK OF CONFIRMATION OF DIMENSIONS BY FIELD MEASUREMENTS SHALL BE BORNE BY THE ELECTRICAL CONTRACTOR. PROVIDE ADDITIONAL SUPPORT FOR SWITCHES, STARTERS, RACEWAY, GROUNDING SYSTEMS, AND OTHER ELECTRICAL EQUIPMENT WHEREVER THE BUILDING STRUCTURE IS NOT SUITABLE FOR DIRECT MOUNTING.

PROVIDE FIRE STOPPING AROUND ALL ELECTRICAL COMPONENTS PENETRATING FIRE RATED WALLS, FLOORS OR CEILINGS. STI SPECSEAL, 3M, OR HILTI FIRESTOP PRODUCTS SHALL BE INSTALLED PER MANUFACTURERS APPLICATION GUIDE, ALTERNATE MANUFACTURERS MUST RECEIVE ENGINEER'S PRIOR APPROVAL.

COORDINATE ALL ELECTRICAL REQUIREMENTS FOR EQUIPMENT WIRING. ANY CHANGES REQUIRED DUE TO EQUIPMENT BEING SUPPLIED OTHER THAN WHAT IS SPECIFIED SHALL BE BORNE BY THE CONTRACTOR WHO INSTIGATED THE CHANGE. SIZING OF BRANCH CIRCUITS AND FEEDERS FOR EQUIPMENT IS BASED ON DESIGN LOADS. PRIOR TO INSTALLATION CONFIRM EXACT LOADS WITH RELEASED SHOP DRAWINGS. BRING DISCREPANCIES TO THE ENGINEER'S ATTENTION FOR

ALL BRANCH CIRCUITS SHALL BE WIRED WITH A MINIMUM OF 3/4"C, #12 PHASE CONDUCTOR, #12 GROUNDED (NEUTRAL) CONDUCTOR, AND A 1-#12 EQUIPMENT GROUNDING CONDUCTOR UNLESS NOTED OTHERWISE ON THE PLANS. MULTIWIRE BRANCH CIRCUITS, SHARING A SINGLE GROUNDED CONDUCTOR SHALL NOT BE USED.

WHERE CONDUIT AND WIRING HAS NOT BEEN SHOWN ON THE DRAWINGS THE ARRANGEMENT AND ROUTING OF LIGHTING AND RECEPTACLE BRANCH CIRCUITS WILL BE AT THE CONTRACTORS DISCRETION IN ACCORDANCE WITH GENERALLY ACCEPTED GOOD PRACTICE, N.E.C. REQUIREMENTS AND THE FOLLOWING LIMITATIONS: EXCEPT WHERE NOTED OTHERWISE, SIZE BRANCH CIRCUIT CONDUCTORS WITHIN THE FOLLOWING

MAXIMUM LENGTH LIMITS: (MEASURE TO THE CENTER OF THE LOAD FOR LIGHTING AND MOST

CONDUCTOR <u>BREAKER</u> <u>LENGTH</u>

PROVIDE #12 AWG MINIMUM FOR ALL 120 VOLT CIRCUITS. PROVIDE ADDITIONAL DERATING PER NEC TABLES 310.15(B)(2)(a) FOR ALL BRANCH CIRCUITS WITH MORE THAN THREE CURRENT CARRYING CONDUCTORS IN A RACEWAY.

HVAC CONTROL WIRING SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR IN ACCORDANCE WITH SPECIFICATIONS UNLESS OTHERWISE NOTED.

THE ELECTRICAL CONTRACTOR SHALL REVIEW ALL SPECIFICATION SECTIONS. EQUIPMENT SCHEDULES. AND/OR DETAILS THROUGHOUT DOCUMENTS THAT PERTAIN TO EQUIPMENT PROVIDED BY OTHERS AND INCLUDE ALL WIRING AND DEVICES REFERENCED IN THEIR BIDS. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF THIS EQUIPMENT WITH

ALL CONDUIT, BOXES, AND WIRING DEVICES IN ALL AREAS SHALL BE RAN IN CONCEALED SPACES OR RECESSED IN WALLS

WHERE PATCHING OF THE EXISTING BUILDING ROOF, FLOORS, WALLS AND/OR CEILINGS ARE REQUIRED TO COMPLETE ELECTRICAL CONSTRUCTION, AND NO RESTORATION IS CALLED FOR BY OTHER CONSTRUCTION TRADES WITHIN DOCUMENTS, THE ELECTRICAL CONTRACTOR SHALL BEAR ENTIRE COST FOR RESTORATION TO MATCH ADJACENT FINISHES. WORK

ELECTRICAL CONTRACTOR SHALL PAY ALL FEES AND OTHER COSTS NOT BORNE BY THE LOCAL POWER COMPANY TO

ELECTRICAL CONTRACTOR SHALL RELOCATE OR REMOVE ANY OR ALL EXISTING SERVICES, POLES, ETC., AS MAY BE

ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR LOCATION OF ALL UNDERGROUND UTILITIES BOTH PUBLIC AND PRIVATE

ELECTRICAL CONTRACTOR SHALL VISIT SITE. VERIFY EXISTING CONDITIONS AND REMOVE ALL EXISTING FIXTURES, CONDUIT

ALL WORK SHOWN ON THESE DOCUMENTS IS NEW AND BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. ALL EQUIPMENT AND MATERIALS SHALL BE UL LISTED AND LABELED FOR TYPE OF EQUIPMENT AND MATERIALS FOR WHICH

GENERAL CONDITIONS NOTE

ALL CONTRACTORS, BY MAKING THEIR BID, REPRESENT THAT THEY HAVE READ AND UNDERSTAND THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL <u>REFER TO THE ENTIRE CONSTRUCTION DOCUMENT SET</u> FOR GUIDANCE ON DIMENSIONS, HEIGHTS, DETAILING, ETC. AND INSTALL THEIR WORK SO AS NOT TO INTERFERE WITH THE INSTALLATION OF ANOTHER DISCIPLINE'S WORK OR THE GENERAL INTENT OF THE CONSTRUCTION DOCUMENTS. IN THE EVENT OF A CONFLICT BETWEEN THE SPECIFICATIONS AND/ OR DRAWINGS, THE ARCHITECT SHALL DETERMINE WHICH INFORMATION

M/P/E TRADES NOTE: IN REFERRING TO THIS SHEET YOU ACKNOWLEDGE: 1.) REVIEWING THE ENTIRE DRAWING SET INCLUDING ALL 'S', 'C' & 'A' SERIES.

.) COORDINATING WITH THE GENERAL TRADES CONTRACTOR OR C.M. FOR EXACT DETAILING, HEIGHTS, ETC. PRIOR TO INSTALLING WORK.

DASHED ELECTRICAL ITEMS WHICH INCLUDE BUT ARE NOT LIMITED TO: RECEPTACLES, SWITCHES, LIGHT FIXTURES, DISCONNECTS, MOTOR STARTERS, PANELS, OCCUPANCY SENSORS, SPEAKERS, FIRE ALARM DEVICES, AND DATA/VOICE OUTLETS INDICATE EXISTING ITEMS TO REMAIN. DASHED ELECTRICAL ITEMS WITH "R" SUBSCRIPT OR DEMO NOTE INDICATES EXISTING ELECTRICAL ITEMS TO BE REMOVED WITH ALL ASSOCIATED BACK BOXES, COVER PLATES, ASSOCIATED COMPONENTS, CONDUIT, CONDUCTORS, AND SUPPORTS BACK TO ORIGINATION, UNLESS OTHERWISE NOTED. EXISTING SINGLE OR DOUBLE GANG OPENING BACK BOXES ABANDONED FOR THIS RENOVATION SHALL HAVE BLANK STAINLESS STEEL COVER PLATES INSTALLED PER SPECIFICATIONS.

EXISTING ELECTRICAL ITEMS INDICATED ON DRAWINGS ARE BELIEVED TO BE A REASONABLE REPRESENTATION OF ACTUAL BUILDING. FIELD VERIFY PRIOR TO BID FOR DETERMINATION OF EXACT QUANTITY AND LOCATION OF ELECTRICAL ITEMS THAT MAY NOT BE SHOWN. THESE DRAWINGS ARE INTENDED TO ONLY BE AN AID FOR BIDDING PURPOSES.

ELECTRICAL SYMBOL SCHEDULE

DEMOLITION PLAN NOTE: X INDICATES A DEMOLITION NOTE FOUND IN THE ELECTRICAL DEMOLITION PLAN NOTE BOX SPECIFIC TO THE DRAWING ON WHICH IT APPEARS. (WILL NOT BE FOUND ON BUILDINGS THAT ARE NEW CONSTRUCTION)

POWER CONDUIT AND CONDUCTOR SCHEDULE: X INDICATES NOTE ON SCHEDULE DESCRIBING CONDUIT SIZE, CONDUCTOR SIZE AND QUANTITY.

NOTE BOX SPECIFIC TO THE DRAWING ON WHICH IT APPEARS.

PLAN NOTE: X INDICATES A PLAN NOTE FOUND IN THE ELECTRICAL PLAN

DOUBLE BORDER NOTE BOX: A GENERAL NOTE THAT APPLIES TO THE ENTIRE DRAWING OR DETAIL WHERE IT APPEARS.

DETAIL BUBBLE: XX INDICATES DETAIL NUMBER, YY INDICATES SHEET NUMBER ON XX \ WHICH APPEARS. DETAIL BUBBLE WILL NOT BE SHOWN AT EVERY SITUATION ON YY / THE FLOOR PLAN WHERE IT IS REQUIRED TO BE FOLLOWED, IT WILL SHOWN AT SEVERAL LOCATIONS TO GIVE THE CONTRACTOR A TYPICAL IDEA OF THE REQUIREMENTS.

METERBASE AS NOTED

"MSB" MAIN SWITCHBOARD DISTRIBUTION PANEL SURFACE MOUNTED PANELBOARD

RECESSED MOUNTED PANELBOARD INVERSE THERMAL-MAGNETIC CIRCUIT BREAKER UNLESS OTHERWISE NOTED

TRANSFORMER

COMBINATION STARTER AND FUSED DISCONNECT SWITCH; XX INDICATES STARTER NUMBER, REFER TO SCHEDULE

NONFUSED HEAVY DUTY DISCONNECT SWITCH; XX INDICATES AMPERE RATING FUSED HEAVY DUTY DISCONNECT SWITCH; XX INDICATES FUSE SIZE

SPECIAL PURPOSE RECEPTACLE; XX INDICATES REQUIRED AMPERAGE, NEMA CONFIGURATION SHALL MATCH CORD SET OF EQUIPMENT BEING PROVIDED EXISTING RECEPTACLE

NEW DEVICE AS NOTED WITHIN EXISTING ROUGH-IN AND TERMINATED TO EXISTING BRANCH CIRCUIT

120 VOLT, 20 AMPERE DUPLEX RECEPTACLE. MOUNT AT 16 INCHES

ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED 120 VOLT, 20 AMPERE SINGLE RECEPTACLE. MOUNT AT 16 INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED

IG \$\rightarrow\$ IG 120 VOLT, 20 AMPERE ISOLATED GROUND SINGLE OR DUPLEX RECEPTACLE MOUNT AT 16 INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. EACH RECEPTACLE SHALL HAVE A DEDICATED GROUNDING CONDUCTOR TERMINATED TO ISOLATED GROUND BUS

120 VOLT, 20 AMPERE DOUBLE DUPLEX RECEPTACLE, MOUNT AT 16 INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED

120 VOLT, 20 AMPERE DUPLEX RECEPTACLE. MOUNT HORIZONTAL WITHIN CASEWORK TOE-KICK, REFER TO DETAIL

120 VOLT, 20 AMPERE DUPLEX OR SINGLE RECEPTACLE. MOUNT AT 42 INCHES ABOVE FINISHED FLOOR OR 4 INCHES ABOVE CASEWORK/COUNTER, OR 2 INCHES ABOVE CASEWORK/COUNTER WITH BACKSPLASH

ELECTRIC CORD AND CABLE REEL, REFER TO DETAIL

120 VOLT, 20 AMPERE TAMPERPROOF DUPLEX RECEPTACLE. MOUNT AT 16 INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED

HEWC 120 VOLT, 20 AMPERE DUPLEX RECEPTACLE FOR ELECTRIC WATER COOLER. MOUNT SO RECEPTACLE IS CONCEALED BEHIND WATER COOLER COVER

120 VOLT, 20 AMPERE DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT

INTERRUPTER. MOUNT AT 16 INCHES ABOVE FINISHED FLOOR UNLESS

120 VOLT, 20 AMPERE DUPLEX RECEPTACLE WITH USB CHARGER PORTS. MOUNT AT 16 INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED

120 VOLT, 20 AMPERE DUPLEX RECEPTACLE WITH GROUND FAULT

CIRCUIT INTERRUPTER WITH HUBBELL #WP26MH COVER. MOUNT HORIZONTAL AT 24 INCHES ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED

SURFACE RACEWAY MOUNTED DEVICE, REFER TO DETAILS FOR REQUIRED SURFACE RACEWAY - WHERE HATCHED RECTANGLE SYMBOL IS NOT SHOWN FOR DEVICE LOCATED ON AN EXISTING WALL, SURFACE MOUNTED CONDUIT IS

ACCEPTABLE FOR LOCATION DEVICE OR BRANCH CIRCUIT FEED THAT SHALL BE CUT-IN OR SLOTTED INTO EXISTING SURFACE. WHERE INDICATED ADJACENT TO UNOCCUPIED AREAS, SURFACE

CONDUIT MAY BE INSTALLED AND FED THRU WALL INTO BACK OF THE SURFACE DEVICE

HOME RUN TO PANELBOARD

UNDER SLAB OR UNDERGROUND HOME RUN TO PANELBOARD

BRANCH CIRCUIT

UNDER SLAB OR UNDERGROUND BRANCH CIRCUIT

REFER TO JUNCTION BOX SCHEDULE

JUNCTION BOX AS REQUIRED FOR ROUGH-IN OR TERMINATION WHEN NOT SPECIFIED

RED MUSHROOM-HEAD EMERGENCY OFF PUSH BUTTON, MOUNT AT 44 INCHES ABOVE FINISHED FLOOR

ADA ACTUATOR BUTTON PROVIDED BY MANUFACTURER, COORDINATE ROUGH-IN REQUIREMENTS AND MOUNT AT 44 INCHES ABOVE FINISHED FLOOR

"ON-OFF" WITH PILOT LIGHT OR "OPEN-CLOSE-STOP" PUSH BUTTON STATION

PHOTO CELL

LIGHTING CONTACTOR, X INDICATES CONTACTOR NUMBER

HAIR OR HAND DRYER

FLUSH MOUNTED FLOOR BOX FOR POWER AND TEL/COM, CONTRACTOR SHALL VERIFY EXACT LOCATION PRIOR TO ROUGH-IN/INSTALLATION WITH ARCHITECT. REFER TO DETAIL.

FLUSH MOUNTED FLOOR BOX FOR POWER AND TEL/COM. "PX" INDICATES QUANTITY OF DUPLEX RECEPTACLE(S) AND "DX" INDICATES QUANTITY OF DATA JACK(S). CONTRACTOR PX/DX SHALL VERIFY EXACT LOCATION PRIOR TO ROUGH-IN/INSTALLATION WITH ARCHITECT.

DATA OUTLET: X DENOTES NUMBER OF DATA DROPS PER OUTLET, REFER TO DETAIL

VOICE OUTLET, REFER TO DETAIL

DATA/VOICE OUTLET: X INDICATES NUMBER OF DATA DROPS PER OUTLET, REFER TO DETAIL

EMT BUSHING AND FIRE STOP AT EACH END. X INDICATES INSIDE

120V DOUBLE DUPLEX RECEPTACLE ADJACENT TO DATA OUTLET. X INDICATES NUMBER OF DATA OUTLETS, REFER TO DETAIL

TELEVISION DISTRIBUTION OUTLET, REFER TO DETAIL + CONTINUOUS CENTER HUNG RAIL/RUNG ALUMINUM CABLE TRAY EMT SYSTEMS TEL/COM SLEEVE, PROVIDE WITH ARLINGTON INDUSTRIES

TTB - 4'x4'x3/4" FIRE-X PLYWOOD INSTALLED ON 1-5/8" UNISTRUT, PAINTED PER SPECIFICATIONS

DIAMETER OF SLEEVE, (Y) INDICATES QUANTITY

2X2 LUMINAIRE; XX INDICATES FIXTURE TYPE,

a INDICATES SWITCH LEG 2X2 LUMINAIRE; XX INDICATES FIXTURE TYPE,

a INDICATES SWITCH LEG, LINES INDICATE INSTALLATION ALIGNMENT 2X4 LUMINAIRE; XX INDICATES LUMINAIRE TYPE,

a INDICATES SWITCH LEG 1X4 LUMINAIRE, XX INDICATES LUMINAIRE TYPE,

a INDICATES SWITCH LEG

EMERGENCY LUMINAIRE; XX INDICATES LUMINAIRE TYPE, a INDICATES SWITCH LEG, PROVIDE EM BALLAST OR GTD AS REQUIRED

STRIP LUMINAIRE; XX INDICATES LUMINAIRE TYPE.
a INDICATES SWITCH LEG TRACK LIGHTING, XX INDICATES LUMINAIRE TYPE, a INDICATED SWITCH LEG

CEILING/SURFACE PENDANT MOUNTED LUMINAIRE;

XX INDICATES LUMINAIRE TYPE, a INDICATES SWITCH LEG WALL/SURFACE MOUNTED LUMINAIRE; XX INDICATES LUMINAIRE TYPE, a INDICATES SWITCH LEG

LINE-SIDE OF RESPECTIVE LIGHTING CIRCUIT FEEDING AREA WHERE LUMINAIRE IS LOCATED, TO BE MOUNTED 6" BELOW CEILING OR 10' FOR CEILINGS OVER 11'-0" A.F.F. UNIVERSAL MOUNT EXIT LIGHT WITH DIRECTIONAL ARROW(S); XX INDICATES FIXTURE TYPE, TERMINATE TO LINE-SIDE OF RESPECTIVE LIGHTING CIRCUIT FEEDING AREA WHERE FIXTURE IS LOCATED. EXIT LIGHTS MAY BE CEILING MOUNTED WHEN CEILING IS

WALL MOUNTED EMERGENCY LIGHT; XX INDICATES LUMINAIRE TYPE, TERMINATE TO

10' AFF OR LESS. WHEN CEILING HEIGHT IS MORE THAN 10' AFF, WALL MOUNT ABOVE

UNIVERSAL MOUNT EXIT LIGHT WITH NO DIRECTIONAL ARROWS: XX INDICATES FIXTURE TYPE, TERMINATE TO LINE-SIDE OF RESPECTIVE LIGHTING CIRCUIT FEEDING AREA WHERE FIXTURE IS LOCATED. EXIT LIGHTS MAY BE CEILING MOUNTED WHEN CEILING IS 10' AFF OR LESS. WHEN CEILING HEIGHT IS MORE THAN 10' AFF, WALL

MOUNT ABOVE FINISHED DOOR FRAME 120 OR 277 VOLT MANUAL MOTOR STARTER SWITCH WITH PILOT LIGHT

AND THERMAL OVERLOAD PROTECTION 120-277 VOLT, SINGLE POLE, 20 AMPERE AC SWITCH

120-277 VOLT, SINGLE POLE, 20 AMPERE AC SWITCHES. "ab" INDICATES OUTBOARD LAMPS TO BE ON SWITCH "a" AND INBOARD LAMP(S) TO BE

ON SWITCH "b" 120-277 VOLT, DOUBLE POLE, 20 AMPERE AC SWITCH

120-277 VOLT, THREE WAY, 20 AMPERE AC SWITCH

120-277 VOLT, FOUR WAY, 20 AMPERE AC SWITCH 120-277 VOLT, 60 Hz, SINGLE POLE DIMMER SWITCH. PROVIDE 0-10V

DIMMING UNLESS OTHERWISE NOTED 120-277 VOLT, KEY OPERATED, 20 AMPERE AC SWITCH

120-277 VOLT, MOMENTARY CONTACT, 20 AMPERE AC SWITCH

CEILING FAN CONTROL SWITCH

20A/1P CIRCUIT BREAKER IN A NEMA 1 LOCKABLE ENCLOSURE \$CF CEILING FAN SWITCH

CEILING MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGY xy 'x' AND 'y' INDICATE SWITCH LEG, REFER TO OCCUPANCY SCHEDULE

CEILING MOUNTED HALL/CORRIDOR OCCUPANCY SENSOR, DUAL TECHNOLOGY xy xy CEILING MOUNTED FIALL/COMMISSION COORDINATE SWITCH LEG, REFER TO OCCUPANCY SCHEDULE CEILING MOUNTED VACANCY SENSOR, DUAL TECHNOLOGY, WITH BMS TERMINATIONS

120-277 VOLT, 20 AMPERE AC SWITCH WITH PILOT LIGHT

WALL MOUNTED LARGE AREA OCCUPANCY SENSOR, DUAL TECHNOLOGY 'x' AND 'y' INDICATE SWITCH LEG, REFER TO OCCUPANCY SCHEDULE

'x' AND 'y' INDICATE SWITCH LEG, REFER TO DETAIL

FIRE ALARM SPEAKER/STROBE FOR VOICE SYSTEM. MOUNT AT 80 INCHES ABOVE FINISHED FLOOR

FIRE ALARM HORN/VISUAL. MOUNT AT 80 INCHES ABOVE FINISHED FLOOR

FIRE ALARM HORN. MOUNT AT 80 INCHES ABOVE FINISHED FLOOR FIRE ALARM VISUAL. MOUNT AT 80 INCHES ABOVE FINISHED FLOOR

FIRE ALARM CEILING MOUNTED HORN/VISUAL MANUAL FIRE ALARM PULL STATION AND HORN/STROBE. MOUNT PULL

STATION AT 44 INCHES AND HORN/STROBE AT 80 INCHES ABOVE

MANUAL FIRE ALARM PULL STATION. MOUNT AT 44 INCHES ABOVE FINISHED FLOOR FIRE ALARM SMOKE DAMPER. MOUNT DUCT DETECTOR NEAR DAMPER, AND INTERFACE WITH ACTUATOR AS REQUIRED.

 $(F) \Leftrightarrow FIRE ALARM CEILING/STRUCTURE MOUNTED BEAM DETECTOR AND REFLECTOR$

FIRE ALARM CEILING MOUNTED THERMAL DETECTOR

FIRE ALARM CEILING MOUNTED SMOKE DETECTOR FIRE ALARM RETURN AIR OPENING MOUNTED SMOKE DETECTOR

REFER TO DETAIL FIRE ALARM DUCT MOUNTED SMOKE DETECTOR. QUANTITY AND INSTALLATION POSITION SHALL BE FIELD DETERMINED BY FINAL DUCT CONFIGURATION

WITH RELAY BASE AND RATED FOR AIR VELOCITY PRESENT,

AND MANUFACTURER'S REQUIREMENTS DUCT MOUNTED SMOKE DETECTOR WALL MOUNTED REMOTE INDICATOR LABELED BY

FIRE ALARM MAGNETIC OR SENTRONIC DOOR HOLD OPEN. COORDINATE WITH DOOR HARDWARE SCHEDULE. TRANSFORMER TO

BE TERMINATED TO NEAREST UNSWITCHED 120V CIRCUIT AS REQUIRED FIRE ALARM CONTROL PANEL

FIRE ALARM ANNUNCIATOR

FIRE ALARM POST INDICATOR VALVE, PROVIDE AND INSTALL SIGNAL MODULE

AND TERMINATE TO FACP AS REQUIRED

FIRE SUPPRESSION SYSTEM TAMPER AND FLOW SWITCH

FIRE SUPPRESSION SYSTEM BELL

WALL MOUNTED DUAL-FACE CLOCK

WIRELESS ACCESS POINT, REFER TO SPECIFICATIONS "WP" INDICATES WEATHERPROOF DEVICE

"WG" INDICATES WIRE GUARDED DEVICE, EXTERIOR WIRE GUARDS SHALL BE STAINLESS STEEL

WALL MOUNTED CLOCK

INDICATES SINGLE POLE CIRCUITS LV-X,X INDICATES TWO POLE CIRCUITS

MCB MAIN CIRCUIT BREAKER

INDICATES THREE POLE CIRCUITS LV-X(X,X)MAIN LUG ONLY

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SOLUTIONS PROVIDED • PROBLEMS SOLVED

shown on these drawings. Shop drawings shall be submitted

10303150

STATE OF

FORT WAYNE

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Fort Wayne, IN 46804

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A PROJECT FOR:



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mark date description

ne concepts, ideas, plans, and details as shown on this document are the sole property of Moake Parl Group, Inc and were created, developed, and presented for the use on this specific project. None of the

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Electrical Genera Notes

date: March 2, 2022 project: 473003 (212600) coordinator: JM drawn: SJB

checked: TPO