

TIPP CITY SCHOOLS NEW BUS MAINTENANCE

02/07/2025



STRUCTURAL ENGINEER:

JEZERINAC GEERS & ASSOCIATES, INC.





MECHANICAL, ELECTRICAL & PLUMBING ENGINEERS LANDSCAPE ARCHITECTS TECHNOLOGY DESIGNERS INTERIOR DESIGNERS MASTER PLANNING

ARCHITECTS



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CENEDAL /	CIVIL / LANDSCAPE / ARCHITECTURAL / STRUCTURAL / PLUMBING / MECHANICAL / E
GENERAL / SHEET	CIVIL / LANDSCAPE / ARCHITECTURAL / STRUCTURAL / PLUMBING / MECHANICAL / E
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C0.3 C1.1	GENERAL DETAILS EXISTING CONDITIONS FULL
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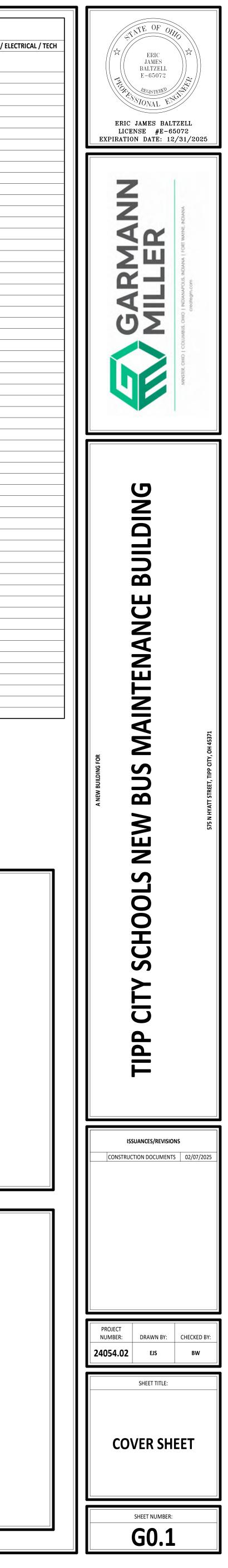
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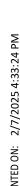
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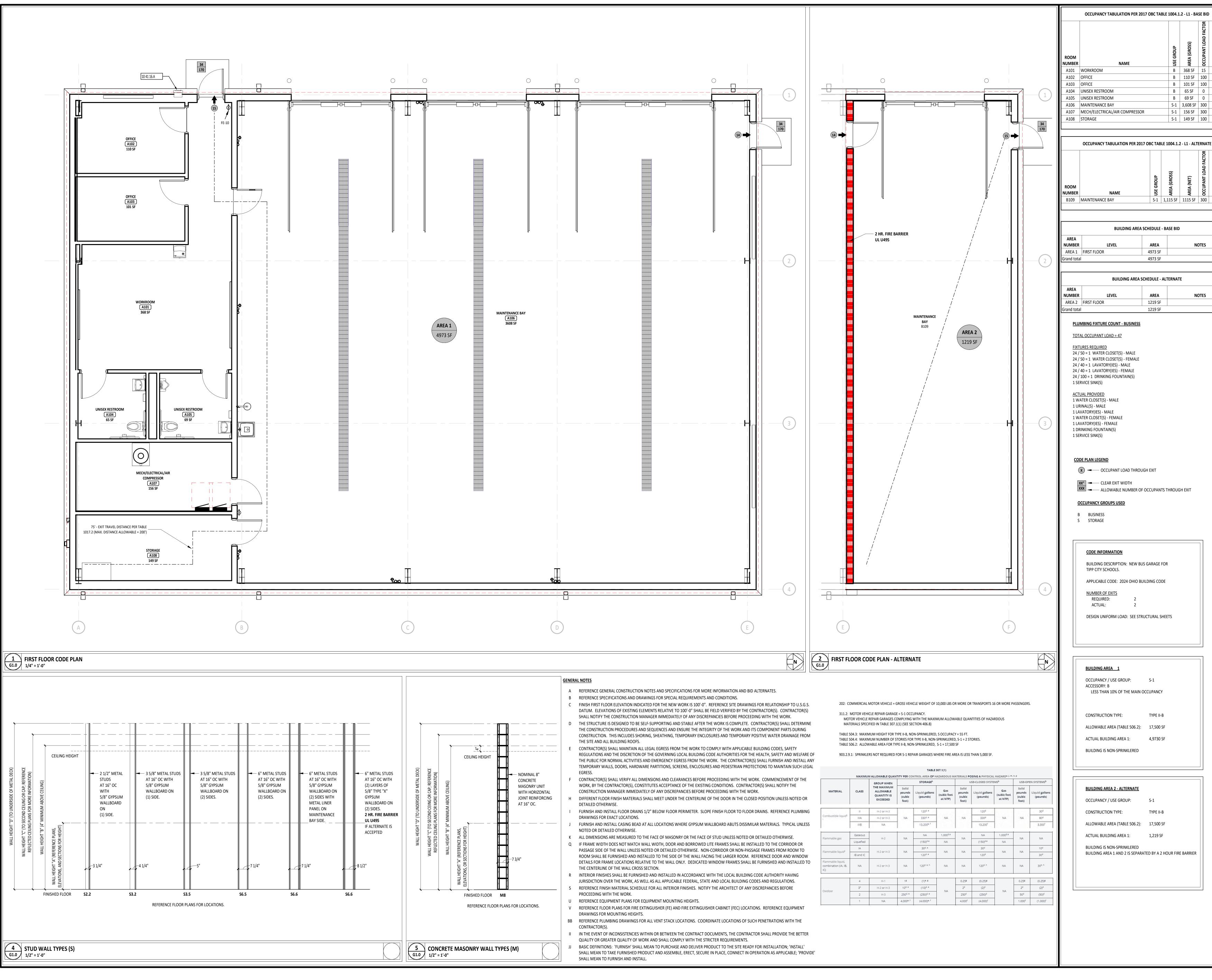
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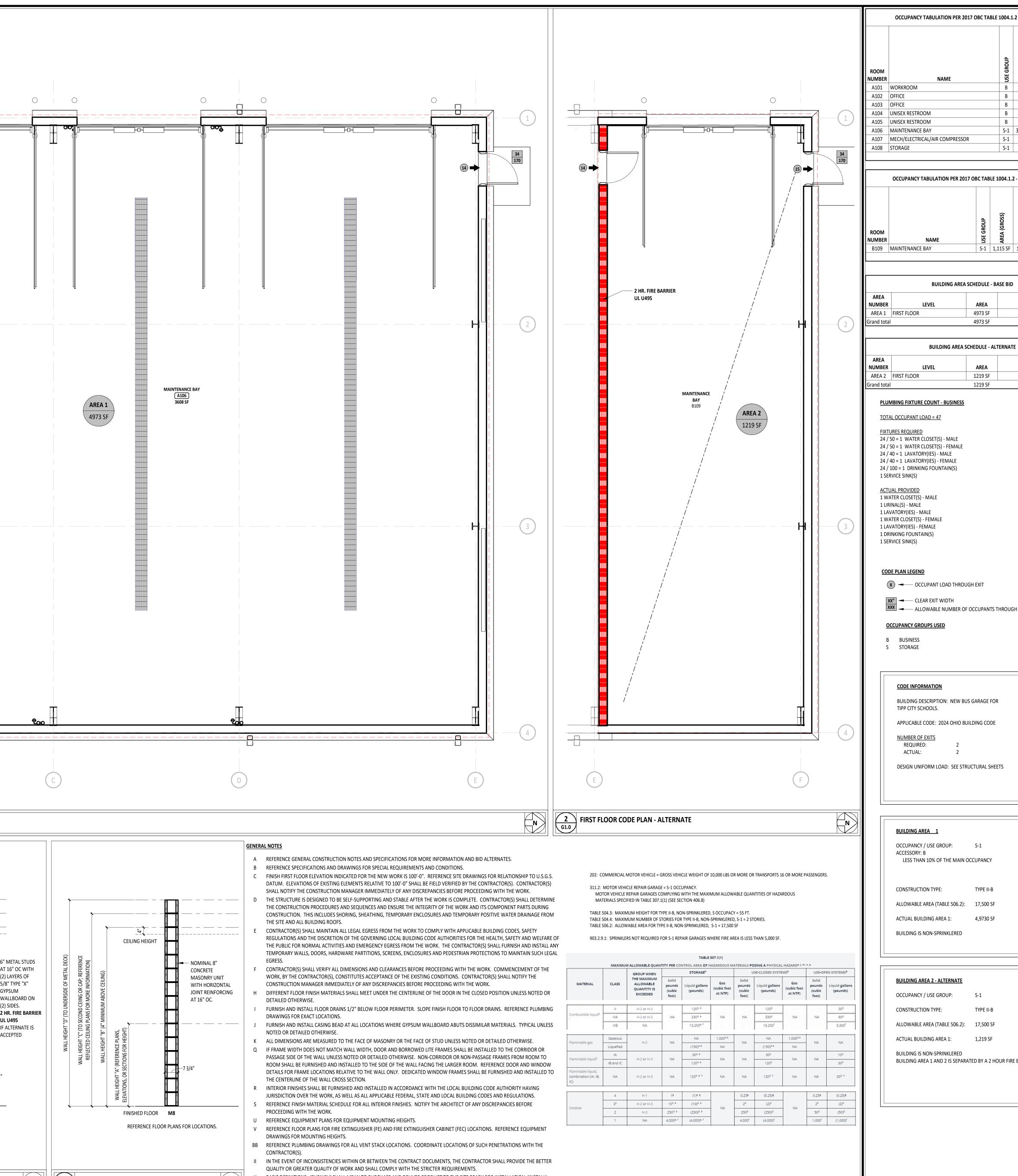
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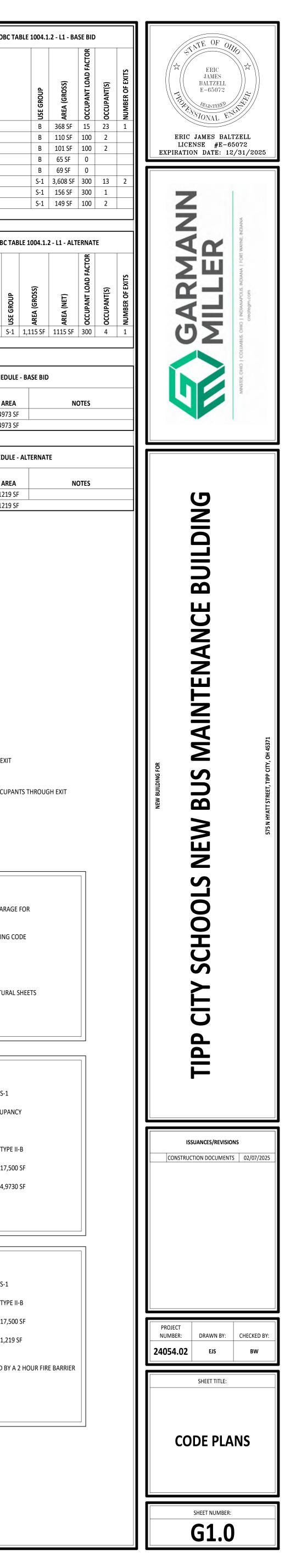
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ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON NAVD 88 (ODOT VRS GEOID

GENERAL NOTES AND DETAILS

ALL CONSTRUCTION METHODS, MATERIALS, AND SPECIFICATIONS SHALL COMPLY WITH THE LATEST VERSION OF THE CITY OF TIPP CITY STANDARDS AND SPECIFICATIONS AND/OR THE LATEST VERSION OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION STANDARDS AND SPECIFICATIONS (INCLUDING CURRENT SUPPLEMENTAL SPECIFICATIONS 800 AND 832), WHICHEVER IS MORE RESTRICTIVE AS DETERMINED BY THE CITY OF TIPP CITY.

UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC. EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION ACCORDING TO THE BEST AVAILABLE DATA. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING THEM IN THE FIELD PRIOR TO CONSTRUCTION AND WILL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THEM. CONTRACTOR TO CONTACT OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 48 HOURS PRIOR TO CONSTRUCTION.

NON-MEMBERS MUST BE CALLED DIRECTLY.

UTILITY OWNERSHIP

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

STREETS, STORM SEWER,

WATER, AND SANITARY CITY OF TIPP CITY 260 S GARBER DRIVE TIPP CITY, OHIO 45371 (937) 637-6305 ATTN: ERIC MACK

<u>ELECTRIC</u>

CITY OF TIPP CITY 260 S GARBER DRIVE TIPP CITY, OHIO 45371 (937) 637-6305 ATTN: JERRY GEE

<u>ELECTRIC</u> AES OHIO 1900 DRYDEN ROAD DAYTON. OHIO 45439 (937) 331-4521 ATTN: WILLIAM GOURLEY

<u>CABLE</u> CHARTER COMMUNICATIONS 3691 TURNER ROAD DAYTON, OHIO 45415 (937) 396-8611 ATTN: MARY EVANS

UTILITY INTERFERENCE

TELEPHONE FRONTIER 117 BURGUNDY DRIVE UNION, OHIO 45322 (937) 833-0468 ATTN: CHARLES BERNACCHI

<u>CABLE</u> METRONET

100 HARRISBURG ROAD ENGLEWOOD. OHIO 45322 (812) 213-1318 ATTN: JEROD INGLES

<u>GAS</u> CENTERPOINT ENERGY 6500 CLYO ROAD CENTERVILLE, OHIO 45459 (317) 718-3639

OHIO UTILITIES PROTECTION SERVICE 2 WORKING DAYS BEFORE YOU DIG CALL TOLL FREE 800-362-2764

IF, DURING THE CONSTRUCTION, INTERFERENCE ARISES WITH EXISTING UTILITIES IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY AND COORDINATE AS NEEDED WITH THE UTILITY COMPANY INVOLVED. ANY AND ALL WORK REQUIRED FOR PRIVATE UTILITIES SHALL BE COORDINATED WITH AND, IF REQUIRED, DONE BY THEIR RESPECTIVE OWNERS, UNLESS OTHERWISE NOTED ON THESE PLANS. THE CONTRACTOR SHALL NOTIFY, AT LEAST 7 DAYS BEFORE BREAKING GROUND, ALL PUBLIC SERVICE CORPORATIONS HAVING WIRES, POLES, PIPES, CONDUITS, MANHOLES, OR OTHER STRUCTURES THAT MAY BE AFFECTED BY THIS OPERATION, INCLUDING ALL STRUCTURES WHICH ARE AFFECTED AND NOT SHOWN ON THESE PLANS.

EXISTING TILE HOOKUPS

THE DRAINAGE TILE CURRENTLY CONNECTED TO THE EXISTING STORM SEWER SHALL BE CONNECTED TO THE PROPOSED STORM SEWER. ANY DRAINAGE TILE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR TO A CONDITION EQUAL TO OR BETTER THAN ITS ORIGINAL CONDITION. ALL TILE REMOVED, REPLACED AND/OR CONNECTED TO THE STORM SEWER SHALL BE NOTED ON THE RECORD DRAWINGS AND SHALL BE INSPECTED BY THE CITY OF TIPP CITY BEFORE THEY ARE COVERED.

ALL FIELD OR STORM DRAINS WHICH ARE ENCOUNTERED DURING CONSTRUCTION SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS OR PLUGGED AS APPROVED AND DIRECTED BY THE CITY OF TIPP CITY. CONNECTION OF INTERSECTING DRAIN TILES AND THE PROPOSED STORM SEWER SHALL BE THROUGH MANUFACTURED TEES. UNLESS OTHERWISE APPROVED BY THE CITY OF TIPP CITY. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTORS OVERALL LUMP SUM BID FOR THE PROJECT.

GEOTECHNICAL ENGINEERING REPORT

CONTRACTOR SHALL REVIEW THE GEOTECHNICAL REPORT FOR THE PROPOSED PROJECT AND PERFORM ALL GEOTECHNICAL WORK IN ACCORDANCE WITH THIS REPORT.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED. DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, CITY OF TIPP CITY SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT THE EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN. CITY OF TIPP CITY SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTORS OVERALL LUMP SUM BID FOR THE PROJECT.

MUD

THE TRACKING OR SPILLAGE OF MUD, DIRT, OR DEBRIS UPON PUBLIC STREETS IS PROHIBITED AND ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR.

EXISTING UTILITY CONFLICT NOTE

IF A CONFLICT ARISES WITH EXISTING UTILITIES, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND APPROPRIATE UTILITY COMPANY TO GET THE CONFLICT RESOLVED.

UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. CHOICE ONE ENGINEERING CORPORATION MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN-SERVICE OR ABANDONED. CHOICE ONE ENGINEERING CORPORATION FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. CHOICE ONE ENGINEERING CORPORATION HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

CAD FILE DISCLAIMER

THE CAD FILE ASSOCIATED WITH THESE CONSTRUCTION PLANS IS A NON-CERTIFIED DOCUMENT. ANY USE OF THE INFORMATION OBTAINED OR DERIVED FROM THE ASSOCIATED CAD FILE WILL BE AT THE RECEIVING PARTY/USER'S RISK. CHOICE ONE ENGINEERING CORP. OFFERS NO WARRANTY AS TO THE ACCURACY OF THE INFORMATION IN THE CAD FILE OR THAT REVISIONS HAVE BEEN ISSUED AFTER THE CAD DRAWING WAS RELEASED. RECEIVING PARTIES/USERS SHALL HOLD HARMLESS TO THE MAXIMUM EXTENT ALLOWED BY LAW CHOICE ONE ENGINEERING CORP. FROM ANY USE OF THE CAD FILE BY THE RECEIVING PARTY/USER. IN ALL CIRCUMSTANCES, AND AT ALL TIMES, THE PUBLISHED PAPER AND/OR PDF DRAWINGS FOR THE PROJECT SHALL SUPERSEDE THE CAD FILES. IN THE CASE OF AN INCONSISTENCY BETWEEN THE PUBLISHED PAPER/PDF DRAWINGS AND THE ASSOCIATED CAD FILE, THE PUBLISHED PAPER/PDF DRAWINGS SHALL GOVERN THE PROJECT AND ALL WORK.

SAFETY

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN. AND SUPERVISE ALL SAFETY REQUIREMENTS. PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.

MASONRY COLLAR

A CONCRETE COLLAR SHALL BE PROVIDED WHERE PROPOSED STORM SEWER PIPE IS CONNECTED TO AN EXISTING PIPE. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

DEWATERING AND BY-PASS PUMPING

ANY DEWATERING, COFFERDAMS, OR PUMPING NECESSARY FOR THE CONSTRUCTION OF ANY ITEMS SHALL BE INCIDENTAL TO THOSE PARTICULAR CONSTRUCTION ITEMS AND SHALL BE INCLUDED IN THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

CLEAN WATER NOTE

ROOF DRAINS, FOUNDATION DRAINS, AND ALL OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SYSTEM ARE PROHIBITED.

SANITARY SEWER/LATERAL NOTE

ALL SANITARY SEWER LINES AND SANITARY LATERALS MUST BE INSTALLED WITH 40 INCHES MINIMUM OF COVER OR BELOW FROST DEPTH WHICHEVER IS GREATER.

STORM SEWER INSTALLATION

THIS WORK CONSISTS OF CONSTRUCTING STORM SEWER. THE CONTRACTOR SHALL PROVIDE ALL TOOLS AND EQUIPMENT REQUIRED FOR INSTALLING THESE ITEMS. THE WORK ALSO INCLUDES FURNISHING ALL MATERIALS, EXCAVATING, BEDDING, LAYING PIPE, JOINTING, BACKFILLING, REMOVAL AND RESTORATION OF DISTURBED FACILITIES AND SURFACES. CURB REPAIR, SIDEWALK REPAIR, PAVEMENT REPAIR (I.E. PAVEMENT IN STREETS, ALLEYS AND DRIVEWAYS), DISPOSAL OF ALL SURPLUS EXCAVATION AND DISCARDED MATERIALS. AND OTHER WORK NECESSARY TO COMPLETE THE ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD LOCATE ALL EXISTING STORM SEWER. AND OTHER UTILITIES. PRIOR TO INSTALLING THE PROPOSED STORM SEWER SYSTEM. THE EXISTING STORM SEWER AND LATERALS SHOWN ON THE PLANS ARE IN THE APPROXIMATE LOCATION AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE PROPOSED TIE-INS TO THE EXISTING STORM PRIOR TO ANY STORM SEWER CONSTRUCTION. ALL TIE-INS SHALL BE THROUGH PREMANUFACTURED TEES OR HOLES INSTALLED USING A CORING MACHINE. PIPE MAY BE ANY OF THE PIPE TYPES LISTED BELOW UNLESS OTHERWISE SPECIFIED ON THE PLANS.

TYPES OF PIPE PERMITTED ODOT MATERIALS NUMBERS

CORRUGATED POLYETHYLENE SMOOTH-LINED PIPE (CPSLP) 707.33 POLYPROPYLENE CORRUGATED DOUBLE WALL PIPE (PCDWP) 707.65 POLYVINYL CHLORIDE SOLID WALL PIPE (SDR-35) 707.45 REINFORCED CONCRETE PIPE 706.02

GENERAL NOTES

1. INSTALL AND TEST ALL UTILITIES PER THE LATEST VERSION OF THE CITY OF TIPP CITY STANDARDS.

2. ALL DISTURBED AREAS AND ALL NON-PAVEMENT AREAS SHALL HAVE A MINIMUM OF 6" OF TOP SOIL PLACED AND ARE TO BE SEEDED AND MULCHED PER ODOT ITEM 659.

3. ALL CONCRETE USED FOR HEAVY DUTY PAVEMENT(S) AND STANDARD DUTY PAVEMENT(S) SHALL BE ODOT QC-1P AND REINFORCED WITH CONCRETE FIBERS AS SPECIFIED IN THE PROPOSED PAVEMENT SECTION(S) OR AS NOTED HERE. ALL OTHER CONCRETE (WALKS, CURBS, ETC.) SHALL ALSO BE ODOT QC-1P. ALL CONCRETE SHALL BE REINFORCED WITH 3 LBS/CY OF EITHER EUCLID CHEMICAL TUFSTRAND SF. FORTA FERRO FIBRILLATED MACROFIBERS OR APPROVED EQUIVALENT MEETING ASTM C 1116 TYPE 3, MINIMUM 2" LENGTH, ASPECT RATIO 50 TO 90. CONTRACTOR SHALL CONTACT THE FIBER MANUFACTURER'S SUPPLIER 48 HOURS PRIOR TO ORDERING THE FIRST BATCH OF CONCRETE FOR APPROPRIATE MIXING AND FINISHING PROCEDURES.

4. CONTRACTOR TO BE RESPONSIBLE FOR ANY PERMITS OR FEES THAT MAY BE NECESSARY FOR THE COMPLETION OF THE SITE WORK.

5. ALL WORK SHALL CONFORM WITH ALL FEDERAL, STATE. AND LOCAL ADA REGULATIONS AND STANDARDS.

6. ALL ITEMS ON SITE PLAN SHALL BE CONSTRUCTED PER THE LATEST VERSION OF THE CITY OF TIPP CITY STANDARDS.

STORM AND SANITARY CONDUITS/STRUCTURES AND RELATED WORK THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS

DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 611, PIPE CULVERTS, SEWERS, DRAINS, AND DRAINAGE STRUCTURES, EXCEPT AS HEREIN MODIFIED.

THE INSTALLATION OF ALL STORM SEWER. SANITARY SEWER. AND ALL CORRESPONDING STRUCTURES SHALL BE PER MANUFACTURER'S RECOMMENDATIONS OR AS NOTED ON THE PLANS. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN A HIGH STANDARD OF WORK. CONTRACTOR IS RESPONSIBLE TO ENSURE ALL WORK IS PERFORMED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR AS NOTED ON THE PLANS. CONTRACTOR SHALL ALSO ENSURE THAT ALL ITEMS ARE FULLY AND PROPERLY FUNCTIONAL, AND TO A QUALITY ACCEPTABLE TO THE OWNER.

ALL PIPE CULVERTS, CONDUITS, SEWERS, DRAINS, AND DRAINAGE STRUCTURES (CATCH BASINS, YARD DRAINS, MANHOLES, ETC.) SHALL MEET THE MATERIAL REQUIREMENTS OF THIS ITEM. THE FOLLOWING ITEMS WILL NOT BE REQUIRED UNLESS OTHERWISE NOTED: 1) INSTALLATION PLAN, 2) CONSTRUCTION INSPECTION FORMS, 3) PERFORMANCE INSPECTIONS AND REPORTS, 4) CONDUIT AND DRAINAGE STRUCTURE EVALUATIONS.

THE CONTRACTOR SHALL ENSURE THE CONDUIT BEDDING AND BACKFILL COMPACTION DENSITY MEETS ASTM D698 (98% STANDARD PROCTOR). TESTING MAY BE REQUIRED IF DEEMED NECESSARY BY THE OWNER OR THE OWNER'S REPRESENTATIVE.

APPLY.

EXCAVATIONS WITHIN PUBLIC RIGHT-OF-WAY LIMITS SHALL BE CLOSED AT TIMES WHEN WORK IS NOT BEING PERFORMED.

LOCAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT DURING THE TIME THAT AN APPROVED CLOSURE AND DETOUR IS ALLOWED BY THE GOVERNING AUTHORITY.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING NECESSARY TRAFFIC CONTROL DEVICES AND PAVEMENT REPAIR MATERIALS TO MAINTAIN THE TRAVELED PAVEMENT SAFELY.

NO SHUT DOWN OF ANY OWNER FACILITY DRIVE, ROADWAY OR PARKING LOT WILL BE ALLOWED WITHOUT WRITTEN CONSENT FROM THE OWNER. ALL OWNER ROADWAYS MUST HAVE AT LEAST ONE LANE OPEN AT ALL TIMES. NO STAGING OF TRUCKS OUTSIDE OF CONSTRUCTION LIMITS WILL BE PERMITTED WITHOUT CONSENT FROM THE OWNER.

SUBCONTRACTOR SUPERVISION

THE CONTRACTOR IS REQUIRED TO HAVE SOMEONE ON-SITE TO SUPERVISE THE SUBCONTRACTOR FOR QUALITY CONTROL PURPOSES AND TO PROVIDE ANY NECESSARY ASSISTANCE TO THE SUBCONTRACTOR TO ENSURE QUALITY WORK. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

EXCAVATION AND EMBANKMENT

TOPSOIL SHALL BE REMOVED FROM ALL DISTURBED AREAS AND ALL AREAS TO BE EXCAVATED OR EMBANKED. A MINIMUM OF 6" OF TOPSOIL SHALL BE FINE GRADED ON ALL DISTURBED AREAS.

ALL EMBANKMENT SHALL BE COMPACTED TO A MINIMUM OF 100% STANDARD PROCTOR OR AS DETERMINED BY THE OWNER. TESTING MAY BE REQUIRED BY THE OWNER.

MORE THAN ONE SAWCUT MAY BE NECESSARY TO ENSURE A CLEAN CUT. JUST PRIOR TO ASPHALT OR CONCRETE PLACEMENT, ASPHALT MATERIAL SHALL BE PLACED ON THE VERTICAL FACE OF SAWCUT JOINTS PRIOR TO PAVING AS PER 401.14. AFTER THE ASPHALT WORK IS COMPLETED. THE TRANSVERSE JOINTS SHALL BE SEALED WITH LIQUID ASPHALT.

CONTRACTOR SHALL LOWER/DIP ANY EXISTING OR PROPOSED WATER LINES AS NEEDED TO OBTAIN AN 18" MINIMUM SEPARATION DISTANCE FROM THE WATER LINE TO ANY STORM OR SANITARY SEWER. WATER LINE SHALL BE LAID AT LEAST 10' HORIZONTALLY FROM ANY SEWERS. WHENEVER A SANITARY OR STORM SEWER AND WATER LINE MUST CROSS, THE SEWER AND WATER SHALL BE LAID AT SUCH AN ELEVATION THAT THERE IS AT LEAST 18" OF SEPARATION BETWEEN THE OUTSIDE WALLS OF THE TWO PIPES. ALSO ONE FULL LENGTH OF WATERLINE SHALL BE LOCATED SO THE JOINTS ARE AS FAR FROM THE STORM AND SANITARY SEWERS AS POSSIBLE. IF IT IS ABSOLUTELY IMPOSSIBLE TO MAINTAIN THE 18" VERTICAL SEPARATION, THE SEWER SHALL BE CONSTRUCTED OF WATER LINE TYPE MATERIALS WHICH WOULD BE ABLE TO WITHSTAND A 100 PSI PRESSURE TEST (NOTE: DO NOT PRESSURE TEST SEWER TO 100 PSI). THESE REQUIREMENTS WILL EXTEND FOR THE DISTANCE OF THE ENTIRE SPAN. NO CHANGE OF MATERIALS ARE ALLOWED MID-SPAN. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

ALL PAVEMENT MARKINGS SHALL BE PER ODOT ITEM 640 AND 642. ALL PAVEMENT MARKINGS TO BE TYPE 1, UNLESS APPLICATION IS REQUIRED WHEN AIR AND PAVEMENT TEMPERATURES ARE BETWEEN 35 °F AND 50 °F, THEN OBTAIN APPROVAL FROM THE OWNER AND APPLY ONLY PRE-QUALIFIED TYPE 1A COLD WEATHER TRAFFIC PAINT MATERIALS PER ITEM 642 AND 740.

ALL MARKING LAYOUT AND COLOR SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

DOWNSPOUTS THE CONTRACTOR SHALL CONNECT ANY DOWNSPOUTS AS SHOWN ON THE SITE PLAN OR TO THE CLOSEST STORM PIPING OR CATCH BASINS USING CPSLP OR PVC SDR-35 SEWER OR APPROVED EQUAL.

UTILITIES

CONTRACTOR SHALL INSTALL AND/OR COORDINATE THE INSTALLATION OF GAS, ELECTRIC, TELEPHONE, CABLE TELEVISION, FIBER OPTIC, ETC.. CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES PRIOR TO INSTALLATION OF ANY FACILITIES. ALL UTILITIES SHALL BE INSTALLED PER EACH PARTICULAR UTILITY COMPANY'S STANDARDS AND PROCEDURES. CONTRACTOR TO VERIFY ACTUAL SIZES, LOCATIONS (POINTS OF ENTRY INTO THE BUILDING) AND INVERTS OF ALL UTILITIES TYING INTO THE BUILDING WITH ALL ARCHITECT PLANS (BUILDING, PLUMBING, ELECTRICAL, ETC.) BEFORE CONSTRUCTION.

MAINTAINING TRAFFIC

MAINTAIN TRAFFIC AS INDICATED IN THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", ALSO THE FOLLOWING REQUIREMENTS SHALL

SAWCUT PAVEMENT JOINTS

WATER LINE CROSSING SEPARATION

PAVEMENT MARKINGS

ASPHALT PAVEMENT REPLACEMENT NOTE

ANY EXISTING PAVEMENT THAT IS TO BE REMOVED SHALL BE SAWCUT FULL DEPTH AND RESTORED TO MATCH THE EXISTING PAVEMENT CROSS SECTION UNLESS OTHERWISE NOTED IN THE PLANS.

ASPHALT

ALL ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL APPLY TO THIS PROJECT EXCEPT FOR ODOT ITEM 401.20 ASPHALT BINDER PRICE ADJUSTMENT (ASPHALT CONCRETE BID ITEMS ARE NOT ELIGIBLE FOR ANY ASPHALT BINDER PRICE ADJUSTMENT).

ALL ASPHALT DELIVERED SHALL BE ACCOMPANIED WITH A LOAD TICKET AS PER ITEM 401.21.

REVIEW OF DRAINAGE FACILITIES

BEFORE FINAL ACCEPTANCE BY THE OWNER, REPRESENTATIVES OF THE OWNER, AND THE CONTRACTOR, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. ALL EXISTING SEWERS INSPECTED BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO PRE-EXISTING CONDITION OF THE SEWER. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY OF TIPP CITY AND/OR OWNER.

ALL NEW CONDUITS, UNDERDRAINS (INCLUDING THE STONE BACKFILL ABOVE THE UNDERDRAIN PIPING), INLETS, CATCH BASINS, MANHOLES, SWALES/DITCHES, AND DETENTION/RETENTION BASINS CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER (INCLUDING SEDIMENT) AND IN A CLEAN CONDITION AND FULLY AND PROPERLY FUNCTIONAL BEFORE THE PROJECT WILL BE ACCEPTED BY THE OWNER.

CLEARING AND GRUBBING

CONTRACTOR TO CLEAR THE AREA AS SHOWN ON THE PLANS AND/OR AS NEEDED TO WORK ON THIS PROJECT. UNLESS STATED ELSEWHERE IN THE PLANS, CLEARING AND GRUBBING IS TO BE KEPT TO A MINIMUM IN ORDER TO PRESERVE THE WOODED AREAS.

MODIFICATIONS

ANY MODIFICATIONS TO THE SPECIFICATIONS OR CHANGES TO THE WORK AS SHOWN ON THE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE OWNER.

RESTORATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY DISTURBED AND/OR DAMAGED AREAS, INCLUDING PAVEMENT, TO CONDITIONS EQUAL TO OR BETTER THAN CONDITIONS PRIOR TO CONSTRUCTION OR TO THE SATISFACTION OF THE OWNER.

MISCELLANEOUS

THE INTENT OF THESE DRAWINGS IS TO INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK BY THE CONTRACTOR. PERFORMANCE BY THE CONTRACTOR SHALL BE REQUIRED TO THE EXTENT CONSISTENT WITH THE CONTRACT DOCUMENTS AND REASONABLY INFERABLE FROM THEM AS BEING NECESSARY TO PRODUCE THE INTENDED RESULTS.

IN THE CASE OF AN INCONSISTENCY BETWEEN DRAWINGS AND SPECIFICATIONS OR WITHIN EITHER DOCUMENT, THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED IN ACCORDANCE WITH THE OWNER'S REPRESENTATIVE'S INTERPRETATION.

CONTRACTORS SHALL VERIFY ALL GRADES, ELEVATIONS, AND EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

CONTRACTOR'S LUMP SUM BID PRICE SHALL INCLUDE ALL ITEMS AND OPERATIONS NEEDED, REQUIRED AND NECESSARY FOR THE PROPER EXECUTION OF THE PROJECT AND TO COMPLETE ALL WORK.

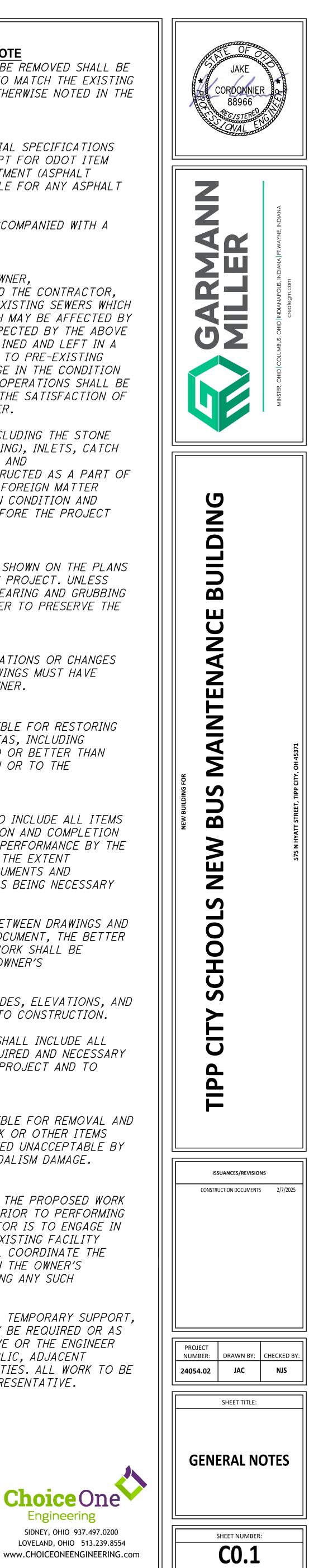
GRAFFITI AND VANDALISM

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF ANY CONCRETE WORK OR OTHER ITEMS UNDER THIS CONTRACT WHICH IS DEEMED UNACCEPTABLE BY THE OWNER DUE TO GRAFFITI OR VANDALISM DAMAGE.

OWNER COORDINATION NOTES

THE CONTRACTOR SHALL COORDINATE THE PROPOSED WORK WITH THE OWNER'S REPRESENTATIVE PRIOR TO PERFORMING ANY WORK ON SITE. IF THE CONTRACTOR IS TO ENGAGE IN ANY OPERATIONS THAT AFFECT THE EXISTING FACILITY OPERATIONS, THE CONTRACTOR SHALL COORDINATE THE SCHEDULING OF SUCH ACTIVITIES WITH THE OWNER'S REPRESENTATIVE PRIOR TO PERFORMING ANY SUCH OPERATIONS OR ACTIVITIES.

THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SUPPORT, BRACING, AND OTHER DEVICES AS MAY BE REQUIRED OR AS DIRECTED BY OWNER'S REPRESENTATIVE OR THE ENGINEER TO PROTECT THE SAFETY OF THE PUBLIC. ADJACENT STRUCTURES, ROADWAY AND/OR UTILITIES. ALL WORK TO BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.



GENERAL NOTES FOR CIVIL WORK

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING AND IS TO INCLUDE SUCH COSTS AS A PART OF THE LUMP SUM PRICE ON THE PROJECT.

2. THE CONTRACTOR IS RESPONSIBLE TO CONTACT THE APPROPRIATE UNDERGROUND UTILITY MARKING SERVICE PRIOR TO THE START OF ANY CONSTRUCTION IN ORDER TO AVOID CONFLICTS WITH EXISTING UTILITIES. IF CONFLICTS ARE DISCOVERED. THE CONTRACTOR IS TO NOTIFY THE OWNER PRIOR TO THE START OF ANY WORK THAT WOULD BE IN CONFLICT WITH THE UTILITIES.

3. THE CONTRACTOR IS TO VISIT AND INVESTIGATE THE PROJECT SITE, PRIOR TO BIDDING, IN ORDER TO DETERMINE THE EXISTING GROUND AND SITE CONDITIONS. FOR SOIL TYPE AND GROUND WATER TABLE, THE CONTRACTOR IS ENCOURAGED TO UTILIZE ANY AVAILABLE DATA TO ESTIMATE GROUND CONDITIONS. SHOULD THE BIDDING CONTRACTOR REQUIRE ADDITIONAL TEST HOLES PRIOR TO BIDDING IN ORDER TO DETERMINE OR VALIDATE GROUND CONDITIONS. THIS CAN BE COMPLETED AT THE DISCRETION OF THE OWNER. NO TEST HOLES ARE TO BE DUG WITHOUT CONTACTING THE OWNER'S REPRESENTATIVE PRIOR TO EXCAVATION AND WITHOUT RECEIVING WRITTEN APPROVAL FROM THE OWNER'S REPRESENTATIVE TO DO SO.

4. THE CONTRACTOR SHALL COMPLY WITH ALL RULES AND REGULATIONS WITH REGARD TO EXCAVATION, SAFETY, QUALITY AND WORK PROGRESS. IT IS THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH THESE THROUGHOUT CONSTRUCTION OPERATIONS.

5. THE LOCATION OF MATERIALS STORED ON SITE MUST RECEIVE THE APPROVAL OF THE OWNER. IN GENERAL, MATERIALS SHOULD BE STORED SO AS TO MINIMIZE THE INCONVENIENCE TO THE OWNER.

6. IF EXCAVATED MATERIALS ARE FOUND TO BE CONTAMINATED. REMEDIATION WILL BE AT THE OWNER'S EXPENSE PRIOR TO REMOVAL FROM THE SITE OR DISPOSAL ON-SITE BY THE CONTRACTOR. THIS PROCESS WILL BE COORDINATED BETWEEN THE OWNER AND CONTRACTOR.

7. TRENCH EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH THE BID SPECIFICATIONS AND IN ACCORDANCE WITH ALL APPLICABLE OSHA RULES AND REGULATIONS. IN ADDITION, THE OWNER MAY HAVE ADDITIONAL REQUIREMENTS FOR EXCAVATION AND TRENCHING ON OWNER PROPERTY THAT MAY BE MORE STRINGENT THAN CURRENT LOCAL OR OSHA REQUIREMENTS. IN THIS CASE, THE OWNER'S REQUIREMENTS ARE TO BE FOLLOWED UNLESS THIS ACTION WOULD BE CONSIDERED NON-COMPLIANT WITH CURRENT GOVERNING CODES OR REGULATIONS AS DEFINED BY LOCAL OR GOVERNING AUTHORITIES. WHERE A NON-COMPLIANCE ISSUE IS NOTED, THE CONTRACTOR IS TO MAKE THE OWNER AND ENGINEER AWARE OF THE GOVERNING CODE.

8. THE CONTRACTOR WILL BE RESPONSIBLE TO REPAIR. REPLACE, AND/OR RECONNECT ANY EXISTING DRAINAGE TILES, NOT SHOWN ON THE PLANS, WHICH CROSS THROUGH THE EXCAVATED TRENCH. ANY DRAINAGE TILES ENCOUNTERED ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER AND A MEASUREMENT TAKEN FROM THE NEAREST MANHOLE OR INLET STRUCTURE TO THE CENTERLINE OF THE TILE. THIS INFORMATION SHALL BE PROVIDED TO THE OWNER AS PART OF THE RECORD DRAWINGS.

9. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPAIRS TO ANY UTILITY LINE(S) THAT THE CONTRACTOR DAMAGES UNLESS OTHERWISE CLEARLY THE RESPONSIBILITY OF THE UTILITY COMPANY.

10. THE CONTRACTOR WILL REPLACE ALL DAMAGED OR REMOVED DRIVES AND PAVEMENT WITH THE REQUIRED THICKNESS SHOWN ON THE PLANS OR MATCH EXISTING IF GREATER.

11. ALL DISTURBED LAWN AREAS SHALL BE GRADED TO DRAIN TO THE NEAREST INLET STRUCTURE.

12. CONTRACTOR SHALL USE PROPER EROSION CONTROL TECHNIQUES TO MAINTAIN GRADE PRIOR TO SEEDING.

13. CONTRACTOR TO REFER TO ODOT SPECIFICATION. ITEM 659 FOR SEEDING AND MULCHING UNLESS OTHERWISE SPECIFIED. CONTRACTOR WILL NOT SEED ANY AREA UNTIL OWNER HAS INSPECTED FINAL TOPSOIL GRADING.

14. CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ALL FENCES, LAWN DECORATIONS, TREES, SHRUBS, PLANTING, VEGETATION ETC. WHICH IS DAMAGED, DISTURBED OR REMOVED DURING CONSTRUCTION.

15. DURING PAVING OPERATIONS, THE CONTRACTOR MUST SUBMIT A WRITTEN PLAN IDENTIFYING DRIVE AREAS WITHIN THE SITE THAT WILL BE SHUT DOWN FOR CONSTRUCTION OPERATIONS PRIOR TO START OF ANY WORK IN THOSE AREAS. CONTRACTOR MUST MAINTAIN A MINIMUM OF ONE LANE FOR TRAFFIC IN ANY AREAS SO DESIGNATED BY THE OWNER THROUGHOUT ALL CONSTRUCTION OPERATIONS.

ITEM 659 SEEDING AND MULCHING

CLASS 1 (LAWN MIXTURE), AS PER PLAN THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 659, SEEDING AND MULCHING, EXCEPT AS HEREIN MODIFIED.

ALL DISTURBED AREAS OR AREAS DESIGNATED FOR SEEDING SHALL BE GRADED AND SEEDED AND SHALL HAVE A MINIMUM OF 6" OF TOPSOIL OVER THE ENTIRE AREA. TESTING THE PH OF ANY EXISTING OR IMPORTED TOPSOIL PER ODOT 659.02 SHALL BE WAIVED. THE AREA SHALL BE HAND-RAKED AND DRESSED READY FOR SEEDING. NO STONE OVER 1_{32}^{9} IN SIZE PERMITTED IN THE TOP 6".

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL.

IT'S THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE THE REQUIRED GERMINATION RATES AND ENSURE THE GRASS IS ESTABLISHED TO THE SATISFACTION OF THE OWNER WHICH MAY REQUIRE WATERING. REGRADING/ADDING TOPSOIL AND RESEEDING.

ANY AREAS THAT HAVE ERODED OR WHERE NEW GRASS DID NOT GERMINATE SHALL BE ADDRESSED BY THE CONTRACTOR UNTIL THE AREAS ARE STABILIZED, SHAPED, AND DRAINED, AS INDICATED IN THE PLANS.

ANY DISTURBED AREA, OUTSIDE OF THE PROJECT WORK LIMITS, CAUSED BY THE CONTRACTOR'S WORK, SHALL BE RESTORED TO THE SATISFACTION OF THE PROPERTY OWNER AND PROJECT OWNER'S REPRESENTATIVE, AT THE CONTRACTOR'S SOLE EXPENSE. THIS ITEM INCLUDES: TOPSOIL, SEEDING, MULCHING, COMMERCIAL FERTILIZER, WATER, AND REPAIR SEEDING AND MULCHING.

PAYMENT FOR ITEM 659 SEEDING AND MULCHING, CLASS 1 (LAWN MIXTURE). AS PER PLAN. FOR ALL ABOVE OPERATIONS, SHALL BE INCLUDED IN THE LUMP SUM BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

UTILITY PLAN NOTES

LOCATE EXISTING UTILITIES NOTE: THIS ITEM OF WORK MAY BE PERFORMED ON AS NEEDED BASIS AND SHALL CONSIST OF THE CONTRACTOR FIELD LOCATING THE VARIOUS EXISTING UTILITY LINES LOCATION. SIZE. AND DEPTH PRIOR TO PERFORMING ANY PROPOSED WORK OR ONCE WORK HAS BEGUN. THIS WORK MAY ALSO REQUIRE THE CONTRACTOR TO INSPECT THE LINES BY OTHER METHODS SUCH AS DYE TESTING OR CAMERA/VIDEO TO FIND THE ORIGIN AND LOCATION OF THE LINE. THE CONTRACTOR SHALL COOPERATE AND COORDINATE WITH THE OWNER AS NEEDED TO ENSURE EXISTING FACILITY OPERATIONS ARE MAINTAINED.

ALL WORK TO BE PER AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND TO BE WITNESSED BY THE OWNER'S REPRESENTATIVE. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

UNKNOWN EXISTING UNDERGROUND UTILITIES: CONTRACTOR TO BE AWARE THERE MAY BE OTHER UNKNOWN SERVICES OR UNKNOWN UNDERGROUND UTILITIES OR ITEMS WHICH MAY BE LOCATED WITHIN THE SITE AND MAY REQUIRE REMOVAL OR REROUTING IN ORDER TO PERFORM THE PROPOSED PROJECT. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY OF ANY UNKNOWN UNDERGROUND UTILITIES OR OTHER ITEMS WHICH ARE ENCOUNTERED AND WORK WITH THE OWNER TO DECIDE HOW THESE ITEMS SHOULD BE HANDLED.

GAS, ELECTRIC, COMMUNICATION CONFLICT NOTE: CONTRACTOR TO LOWER/DIP THESE UTILITIES AS NEEDED TO AVOID CONFLICTS WITH ANY PROPOSED OR EXISTING SANITARY OR STORM OR WATER LINES THEY MAY CONFLICT WITH. IF THESE UTILITY LINES CONFLICT WITH ANY PROPOSED OR EXISTING WATERLINES THEN CONTRACTOR TO DETERMINE WHETHER TO LOWER/DIP THE WATERLINE OR LOWER/DIP THE GAS/ELECTRIC/COMMUNICATION LINE(S) CONTRACTOR MAY NEED TO CONSULT WITH AND OBTAIN OWNER'S APPROVAL AS TO WHICH UTILITY WILL BE LOWERED PRIOR TO PERFORMING THIS WORK. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

DOWNSPOUT PIPING NOTE: THE CONTRACTOR SHALL CONNECT ANY DOWNSPOUTS AS SHOWN ON THE SITE PLAN OR TO THE CLOSEST STORM PIPING OR CATCH BASINS USING CPSLP OR PVC SDR-35 SEWER OR APPROVED EQUAL.

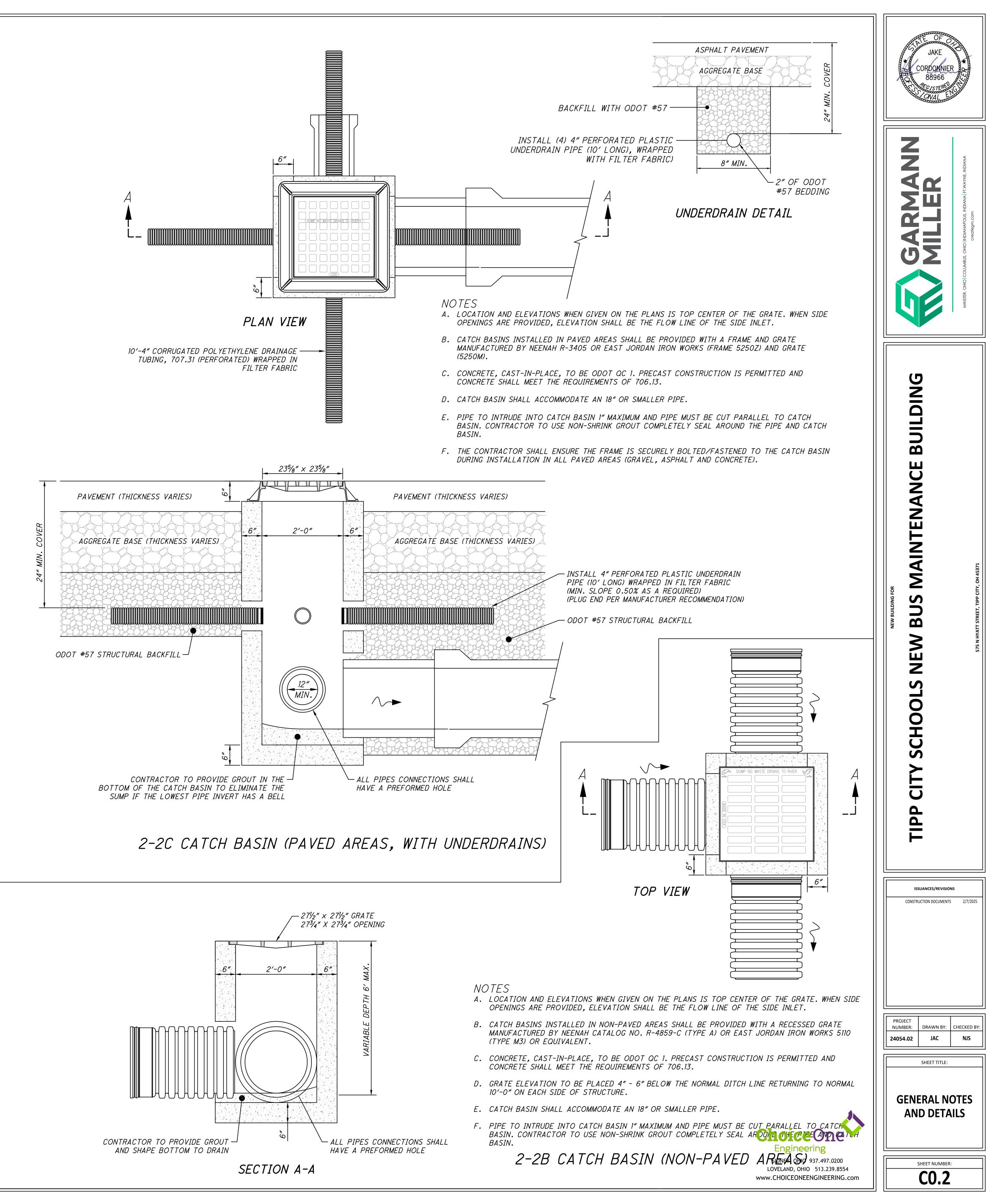
ELECTRICAL/MECHANICAL NOTE: CONTRACTOR SHALL REFER TO THE ELECTRICAL/MECHANICAL DRAWINGS FOR DEMOLITION AND/OR INSTALLATION INFO. OF ALL EXISTING AND PROPOSED ELECTRICAL/MECHANICAL ITEMS FOR THE SITE AND/OR HOW THESE ITEMS ARE TO BE HANDLED AND ADDRESSED.

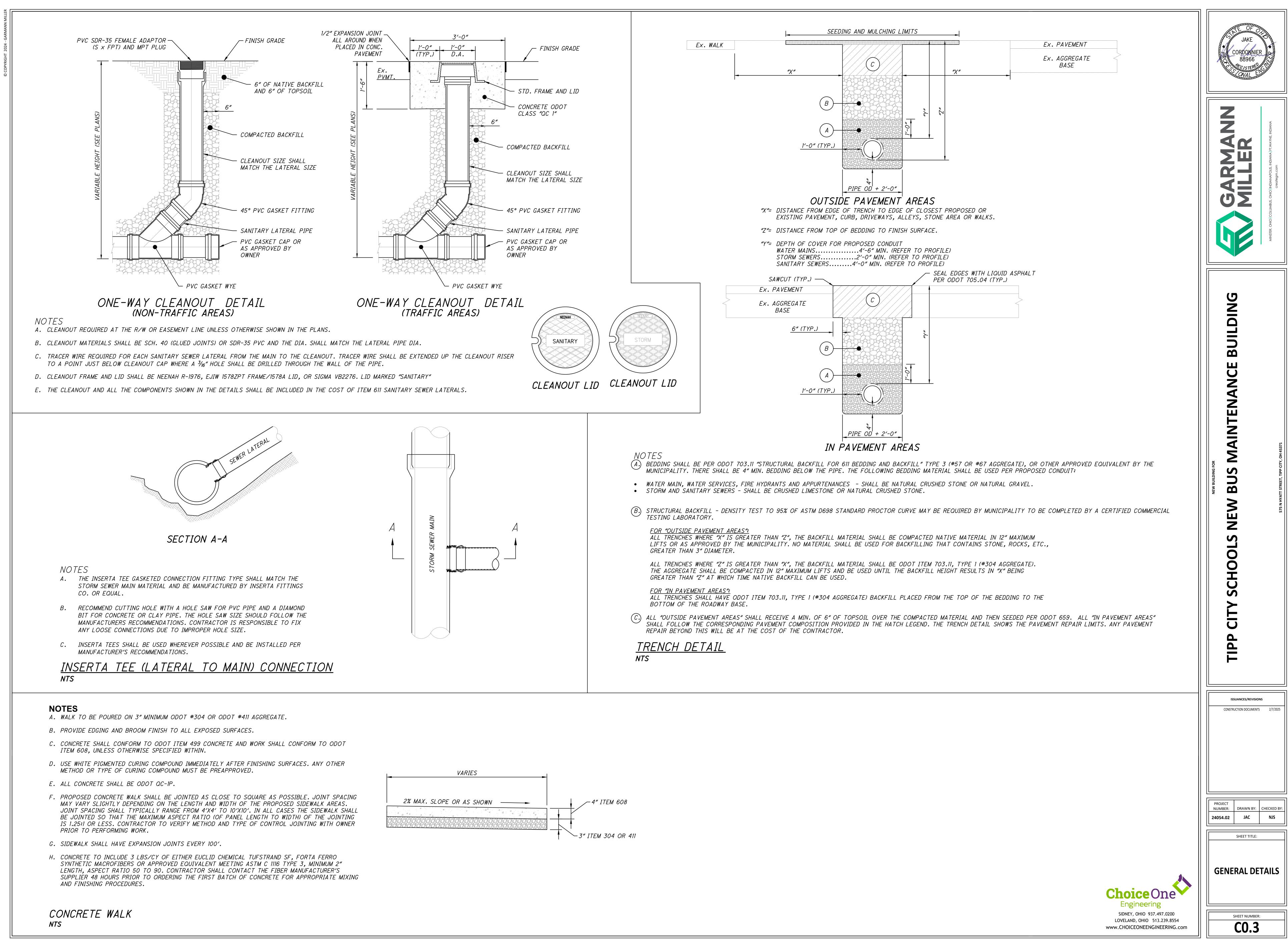
EXISTING BUILDING STORM, DOWNSPOUTS AND ROOF DRAINS <u>NOTE:</u>

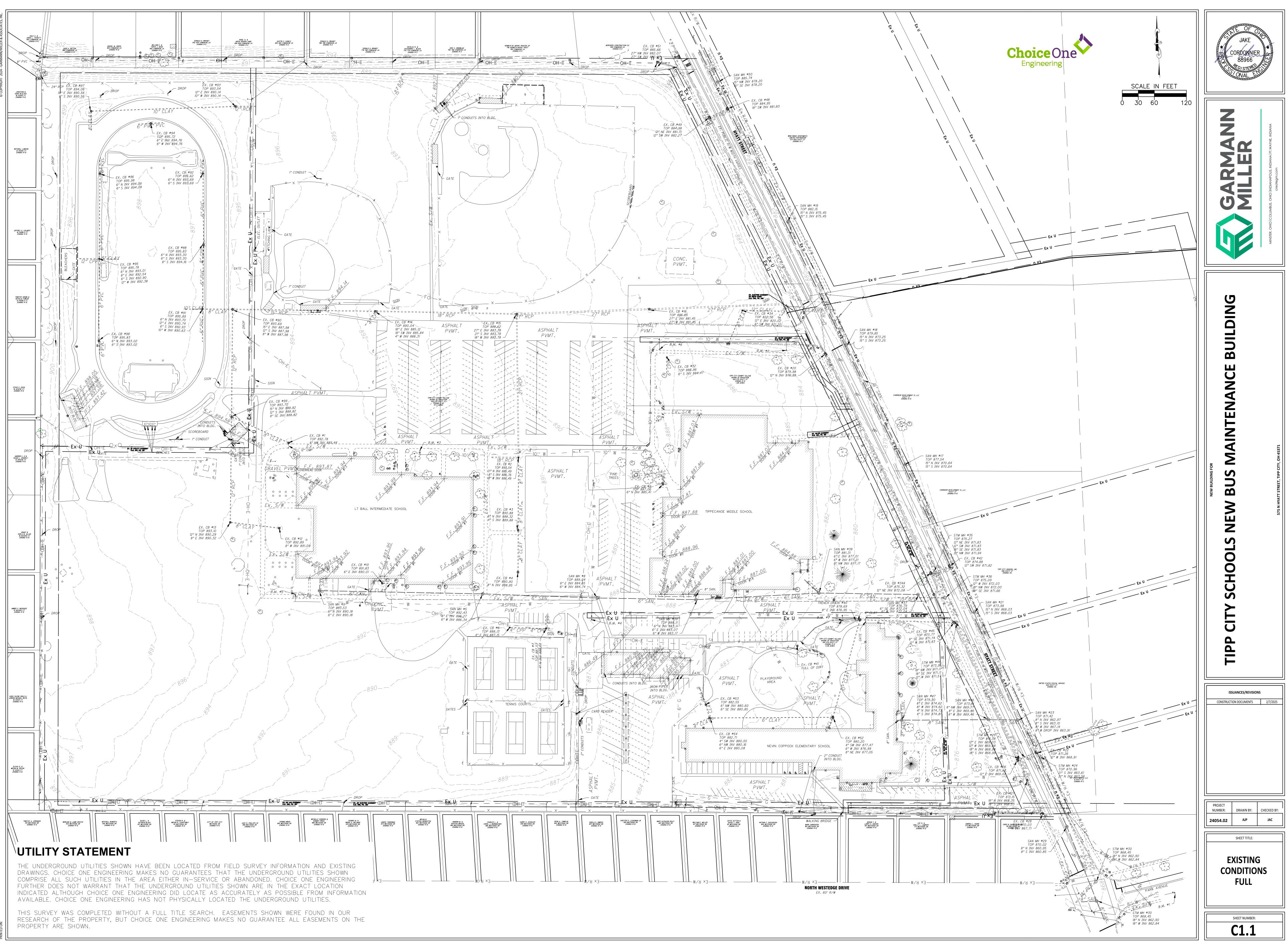
FOR ALL EXISTING ROOF DRAINS AND/OR DOWNSPOUTS FROM THE EXISTING BUILDING, CONTRACTOR SHALL REROUTE AND TIE THEM INTO THE PROPOSED STORM SYSTEM. IF THERE ARE ANY ADDITIONAL ROOF DRAINS OR DOWNSPOUTS DISCOVERED AND/OR ENCOUNTERED DURING CONSTRUCTION, CONTRACTOR SHALL TIE THEM INTO THE PROPOSED STORM SEWER AS NEEDED/REQUIRED AND AS DIRECTED BY THE OWNER.

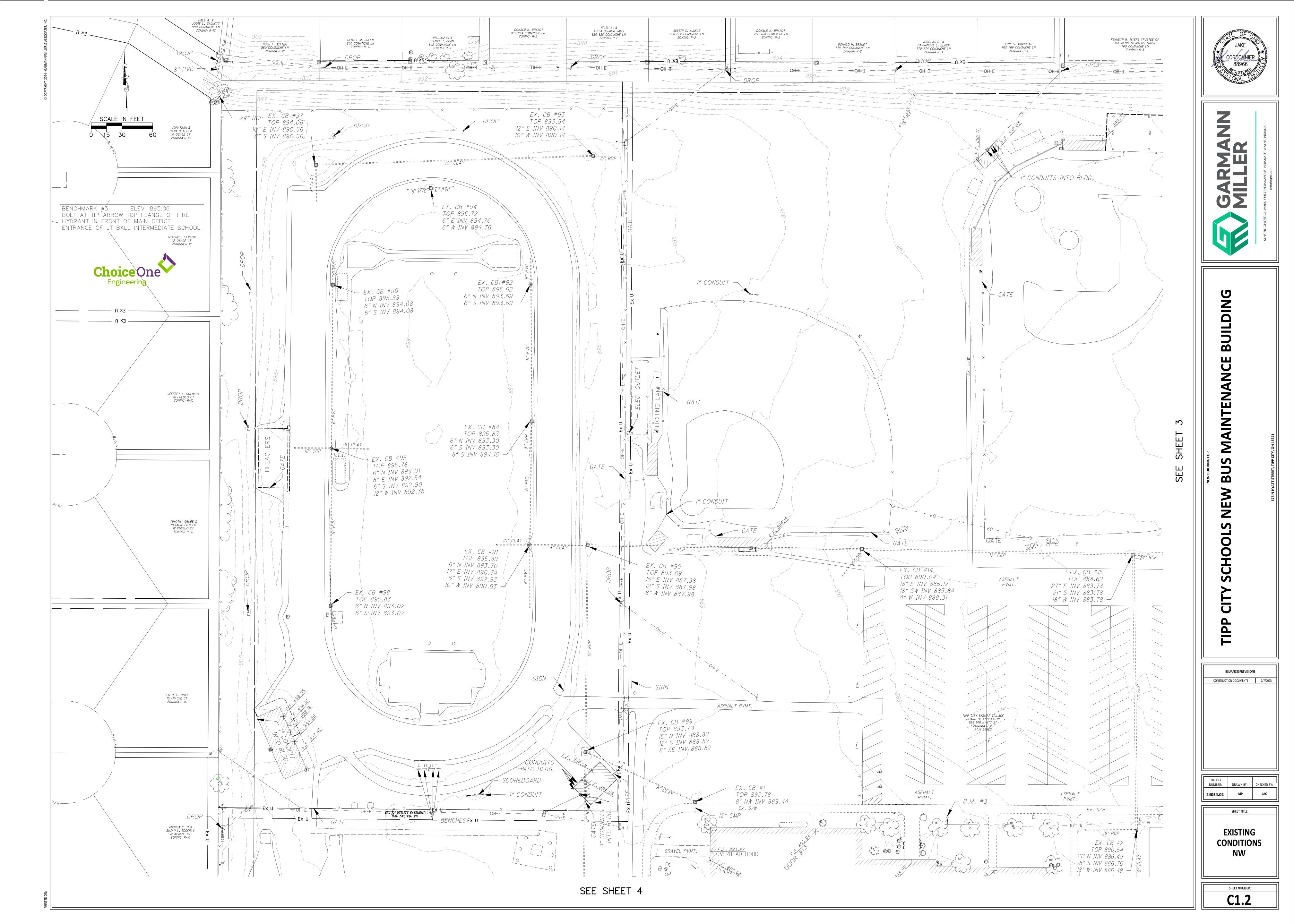
THERE MAY BE EXISTING STORM LINES IN THE AREA OF THE EXISTING BUILDING(S) THAT PICK UP THE EXISTING DOWNSPOUTS FROM THE EXISTING BUILDING(S). THE SIZE, LOCATION. DEPTH. ROUTING OF THESE EXISTING DOWNSPOUT COLLECTOR LINES IS UNKNOWN. CONTRACTOR SHALL BE AWARE OF THAT THIS PIPING MAY BE PRESENT AND SHALL ENSURE ALL EXISTING DOWNSPOUTS AND THEIR RELATED PIPING REMAINS IN SERVICE THROUGHOUT THE PROJECT, UNLESS OTHERWISE NOTED

COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

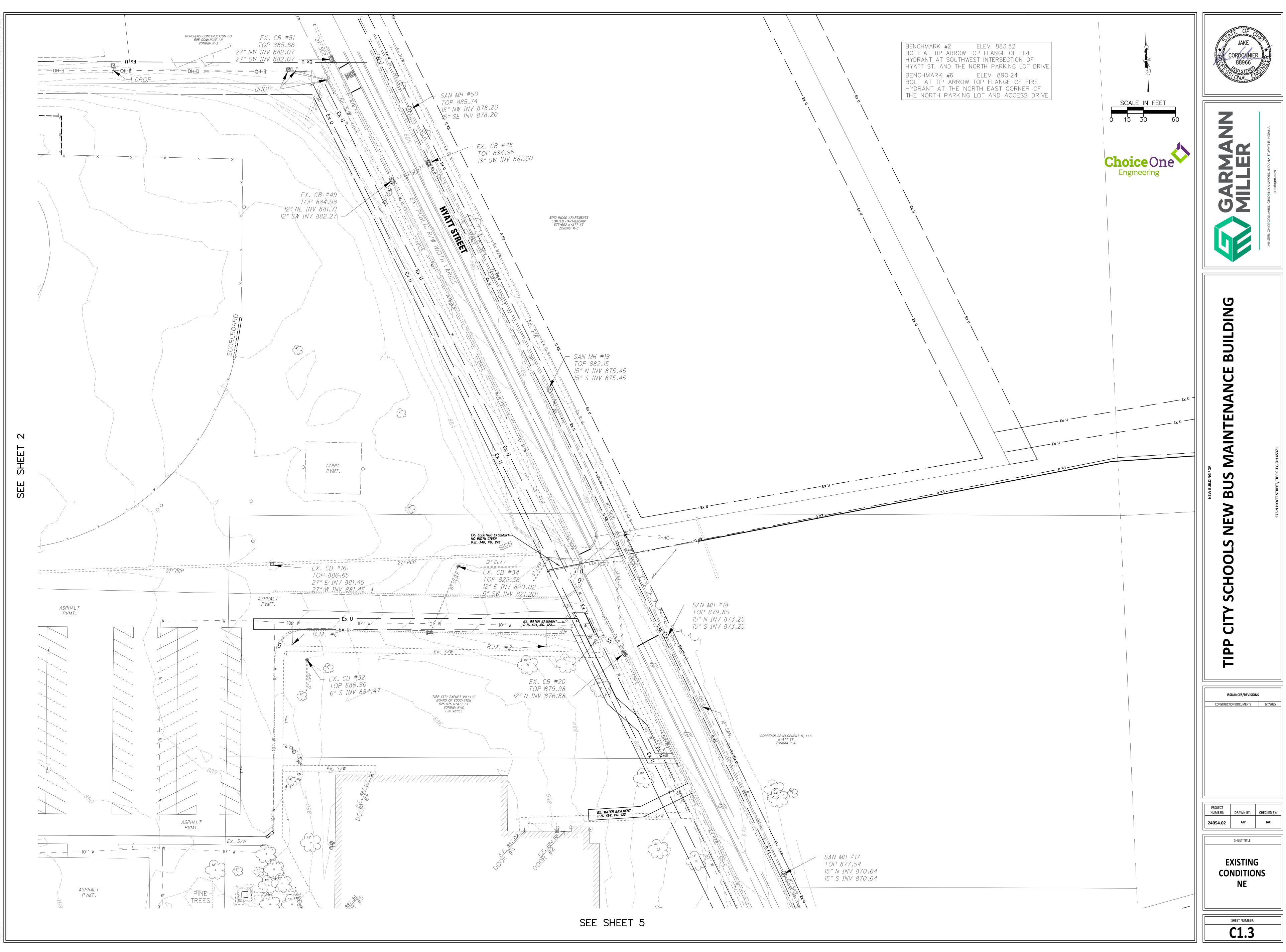




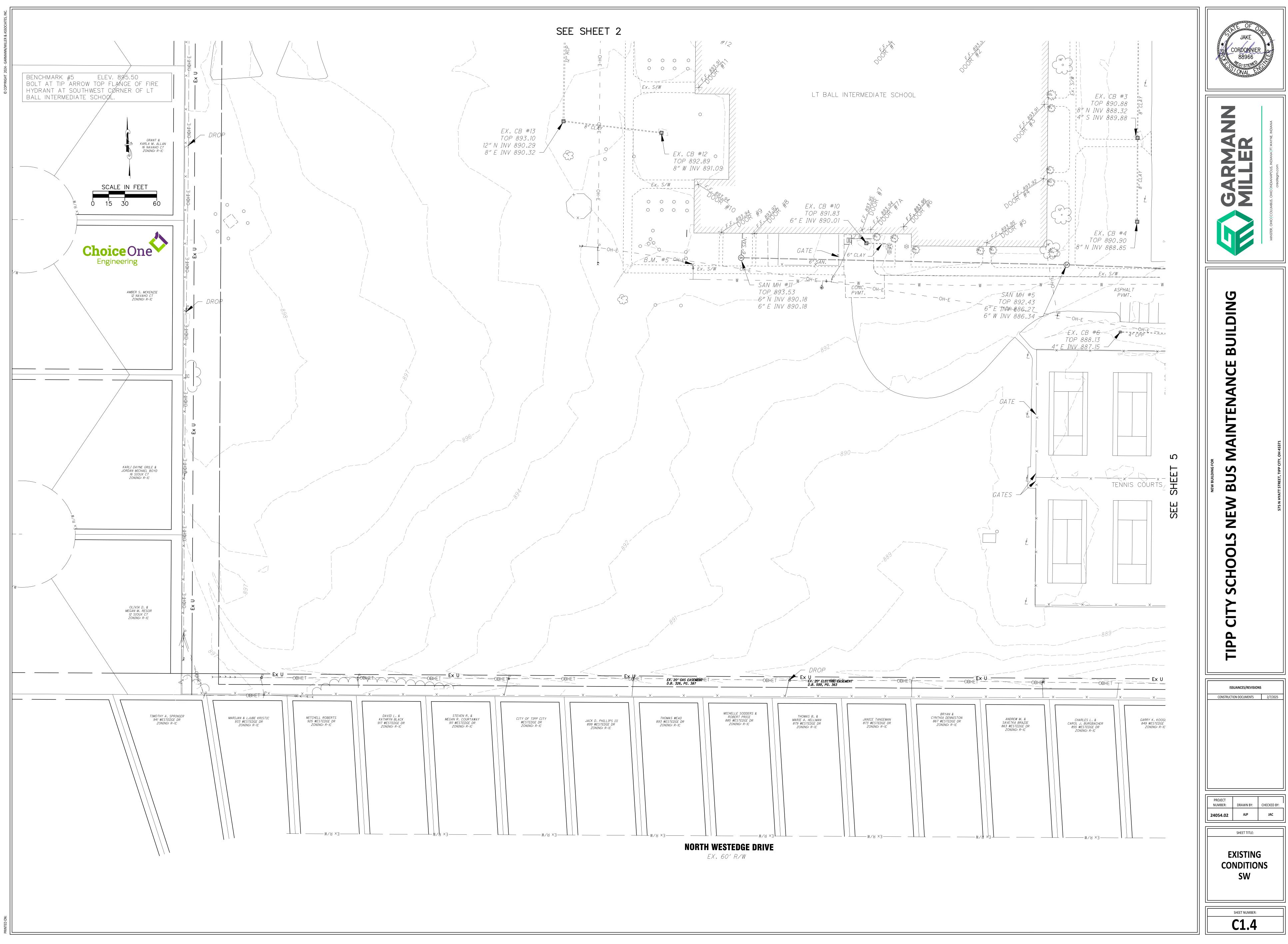




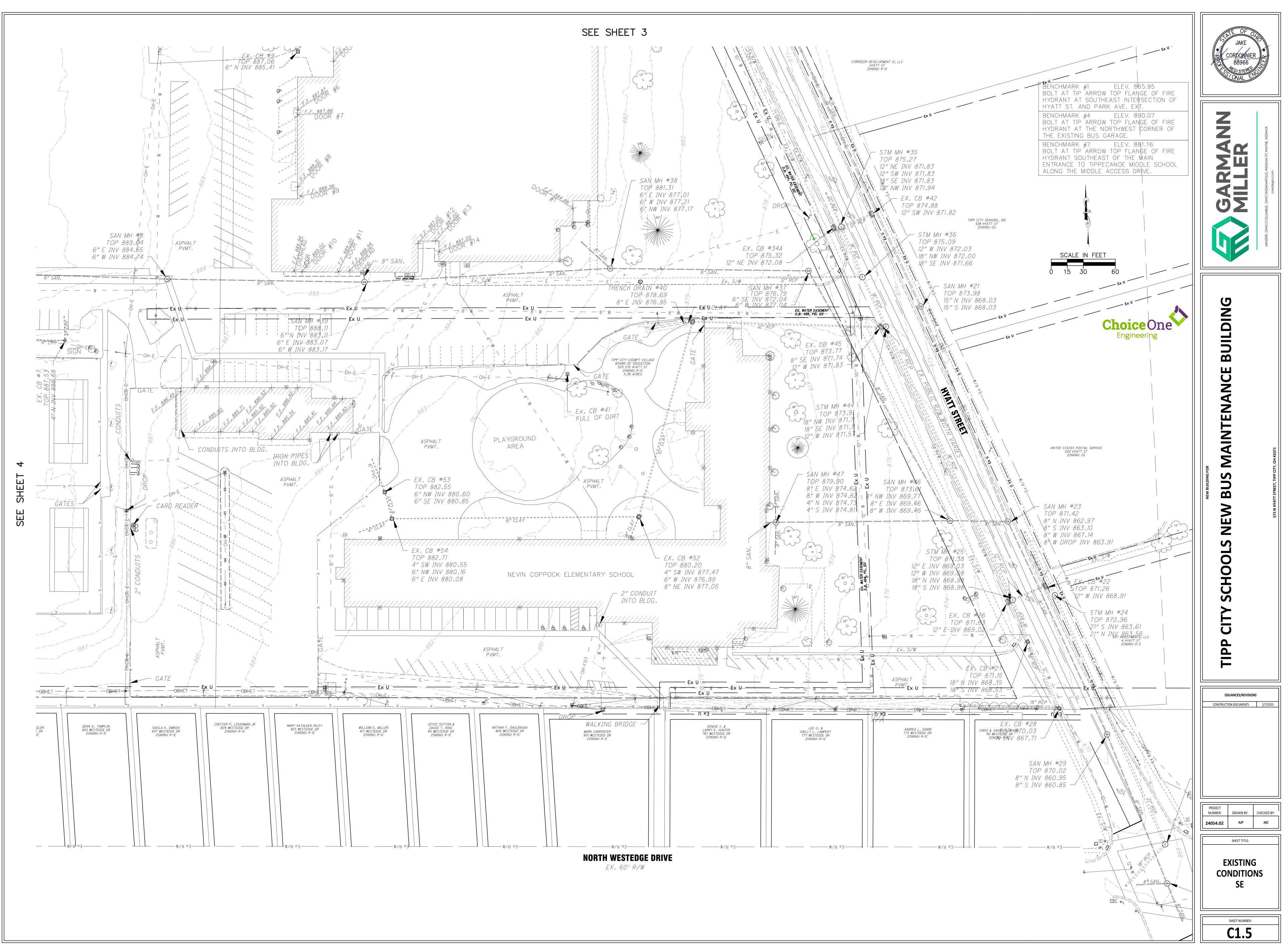


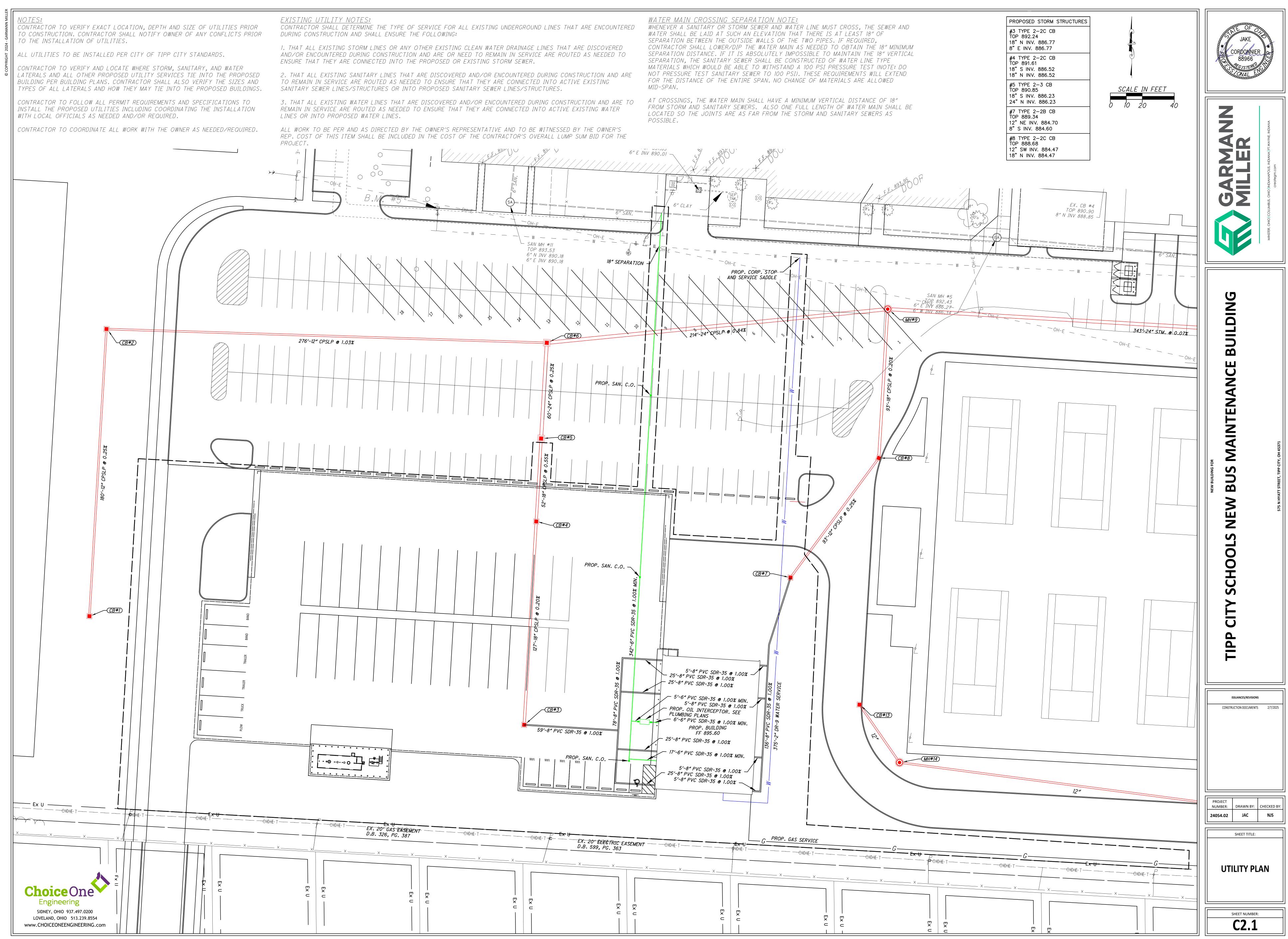


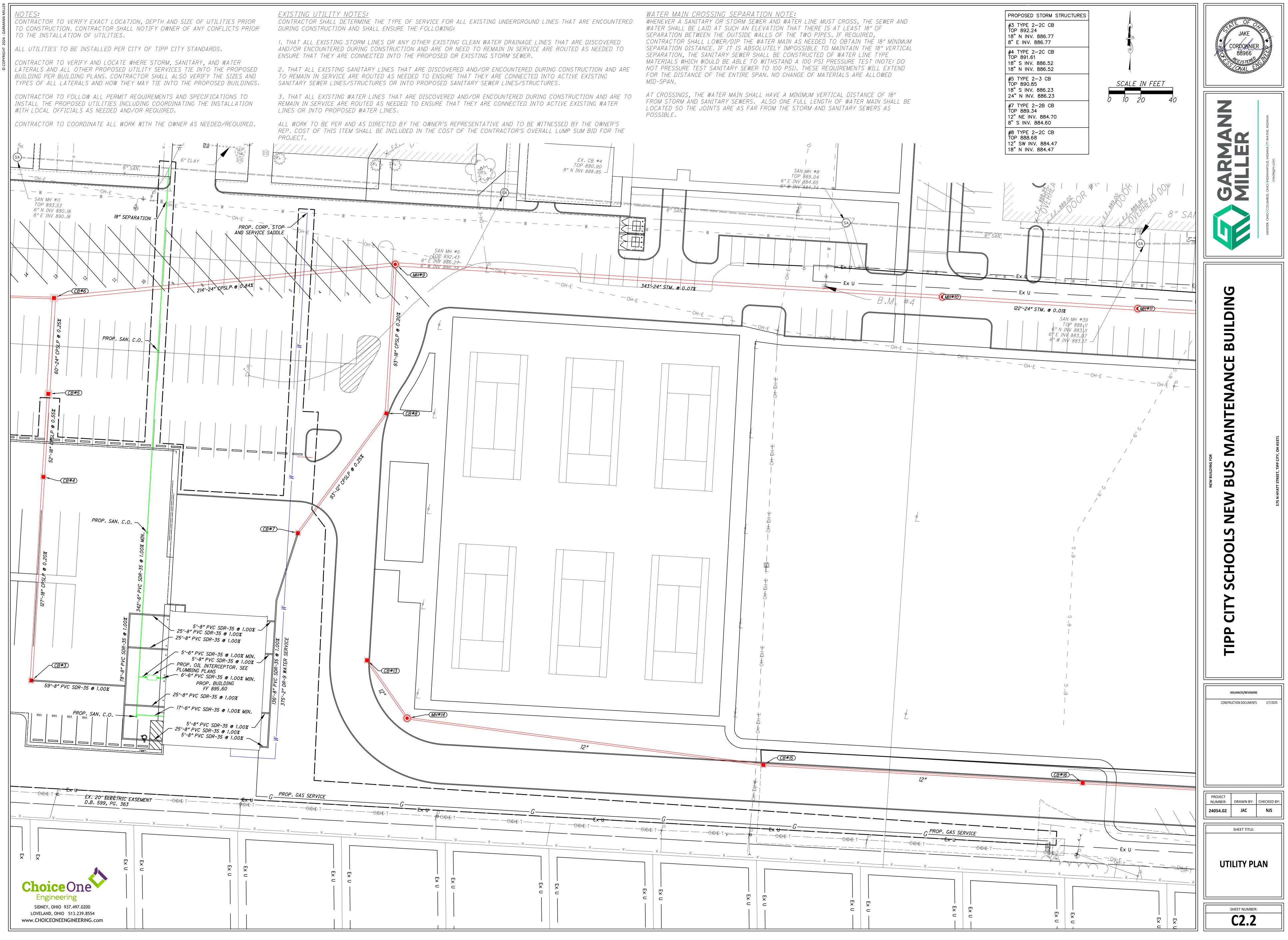
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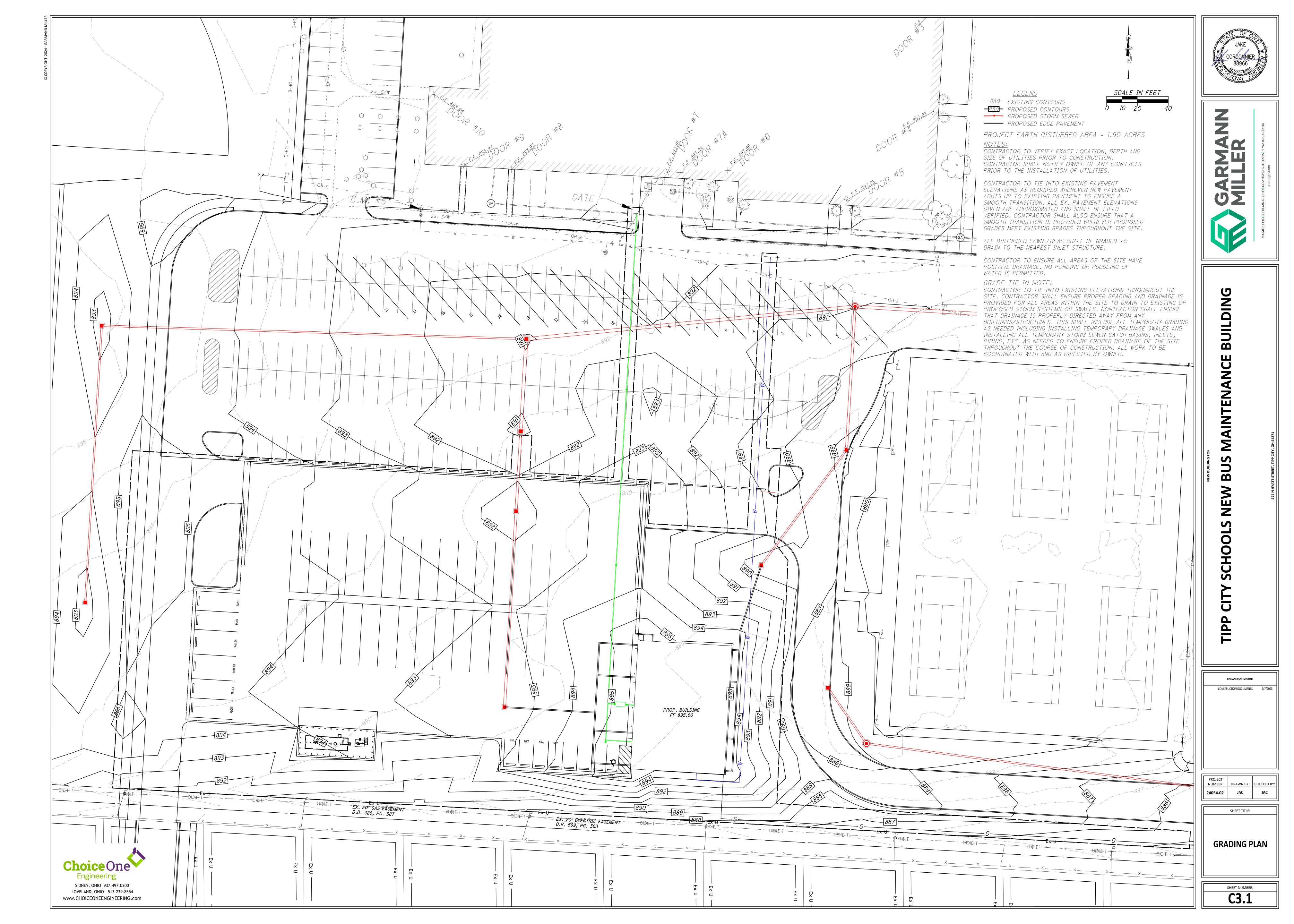


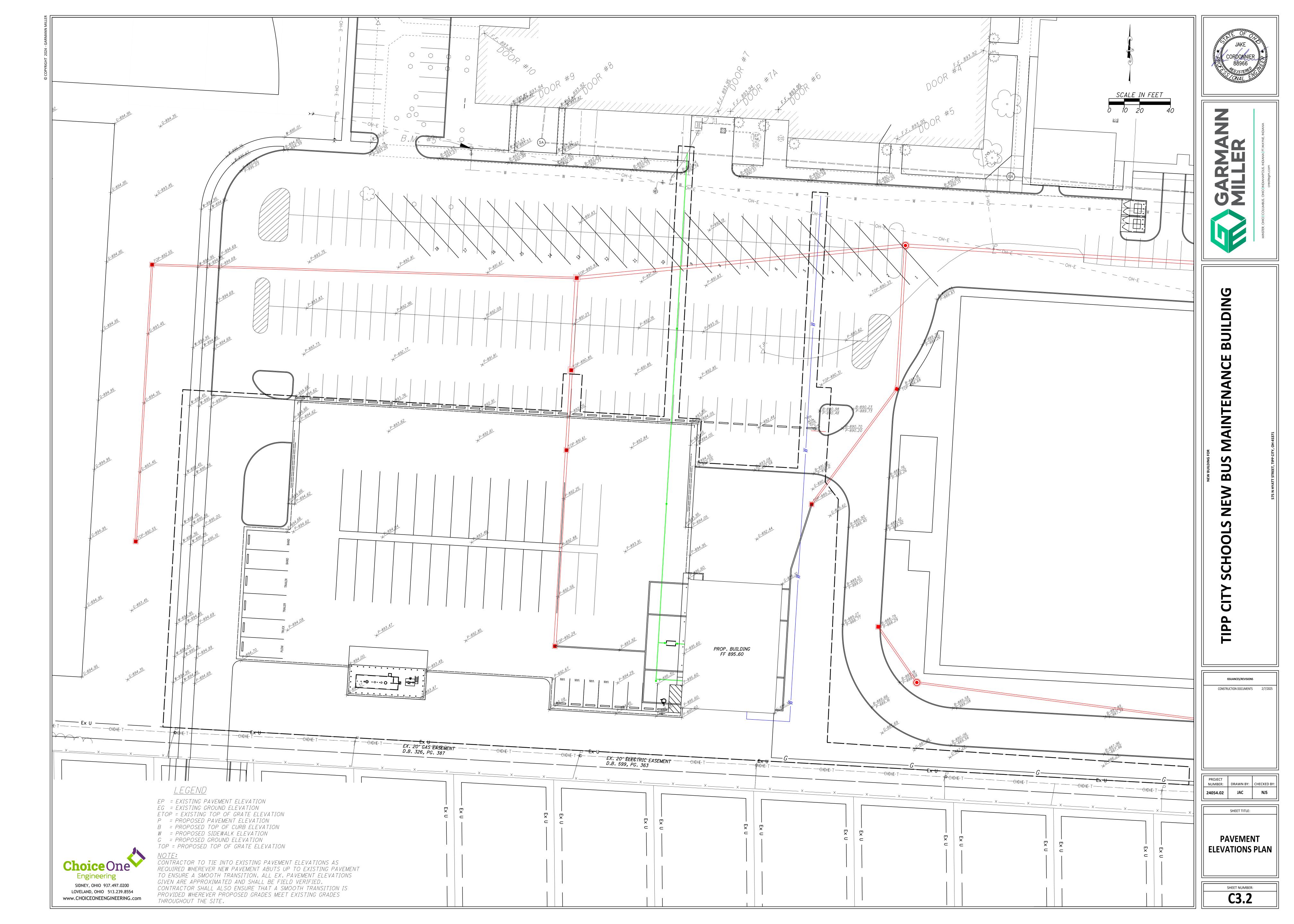




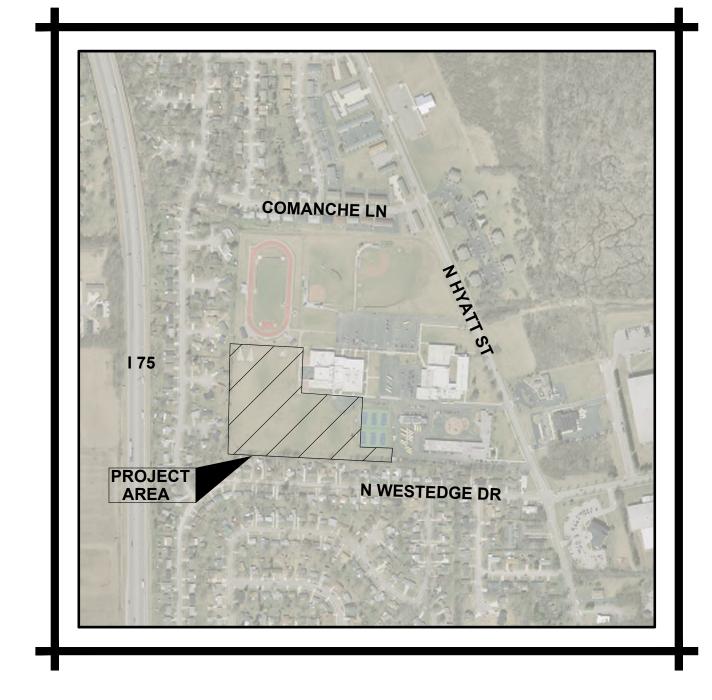












SWPPP NOTE

VICINITY MAP

THIS STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN PREPARED FOR TIPP CITY SCHOOLS FOR THE PERFORMANCE OF THE TIPP CITY SCHOOLS NEW BUS MAINTENANCE BUILDING IN MIAMI COUNTY. OHIO. ALL WORK SHALL BE PER AND COMPLY WITH THE OEPA CONSTRUCTION SITE STORM WATER GENERAL PERMIT, PERMIT #OHCOOOOO6. THIS INCLUDES FILING A CO-PERMITTEE NOI FORM WITH THE OEPA FOR ALL OPERATORS ENGAGED IN SITE WORK ON THE SITE. CONTRACTOR SHALL FOLLOW THE SPECIFICATIONS, INSTALLATION, MAINTENANCE AND REQUIREMENTS OF ODOT'S CURRENT SUPPLEMENTAL SPECIFICATION 832 "TEMPORARY SEDIMENT AND EROSION CONTROL." COMPLIANCE WITH SUPPLEMENTAL SPECIFICATION 832 SHALL INCLUDE THE STANDARD CONSTRUCTION DRAWING REFERENCES LISTED IN SECTION 832.03, BUT SHALL NOT INCLUDE SECTION 832.11 "INSPECTIONS AND SWPPP UPDATES." ALL INSPECTIONS AND SWPPP UPDATES SHALL BE PER THE OEPA CONSTRUCTION SITE STORM WATER GENERAL PERMIT, PERMIT #OHCOOOOO6. ALL WORK SHALL ALSO BE PER THE CURRENT ODOT CMS 107.19. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH LOCAL STORMWATER AND EROSION CONTROL REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH AND INSTALLING ALL ITEMS NOTED AND AS REQUIRED BY OEPA AND LOCAL AUTHORITIES FOR MEETING ALL STORM WATER POLLUTION PREVENTION REQUIREMENTS. TIPP CITY SCHOOLS AND THE SELECTED CONTRACTOR SHALL BE THE RESPONSIBLE PARTY IN CHARGE OF THE SWPPP AND ASSOCIATED BMP'S.

SITE DATA

LOCATION SOIL TYPES______SILTY CLAY LOAM, SILT LOAM EARTH DISTURBED AREA______1.90 ACRES PROPOSED IMPERVIOUS AREA ADDED:_____1.45 ACRES PRE-CONSTRUCTION RUNOFF COEFFICIENT:____0.30

POST-CONSTRUCTION RUNOFF COEFFICIENT:___0.76

DESCRIPTION OF PRIOR LAND USE_____OPEN GRASS FIELD EXISTING QUALITY OF DISCHARGE FROM SITE___UNTREATED PERVIOUS RUNOFF IMMEDIATE RECEIVING WATERS:_____ON-SITE DETENTION BASIN SUBSEQUENT RECEIVING WATERS:_____CITY STORM SEWER LATITUDE 39.967647° LONGITUDE -84.185757°

WATERS EDGE NOTE

ALL MATERIAL AND EQUIPMENT STAGING OR STORAGE AREAS, DEWATERING AREAS, CONCRETE TRUCK WASH OUT AREAS, CONSTRUCTION ACCESS LOCATIONS, AND VEHICLE FUELING AND REFUELING LOCATIONS MUST BE LOCATED A MINIMUM OF 100' FROM ANY CREEK/RIVER/STREAM WATERS EDGE.

CLEAN STORM SYSTEM NOTE

IMMEDIATELY PRIOR TO FINAL COMPLETION OF THE PROJECT, CONTRACTOR SHALL ENSURE THE ENTIRE STORM SYSTEM, INCLUDING BUT NOT LIMITED TO, THE DETENTION/RETENTION BASIN(S), CATCH BASINS, MANHOLES, PIPING, UNDERDRAINS AND UNDERDRAIN TRENCHES ARE FREE FROM SEDIMENTATION AND OTHER POLLUTANTS AND FOREIGN MATERIALS AND ARE TO BE CLEANED AS NEEDED TO ENSURE MAXIMUM STORMWATER QUALITY AND FULL FUNCTIONALITY.

OFFSITE CONSTRUCTION ACTIVITIES

IT IS EXPECTED ALL CONSTRUCTION ACTIVITIES WILL TAKE PLACE ON SITE.

SPILL REPORTING REQUIREMENTS

IN THE EVENT OF A SMALL RELEASE (LESS THAN 25 GALLONS) OF PETROLEUM WASTE, SPECIAL HANDING PROCEDURES MUST BE USED. IN THE EVENT OF A LARGE RELEASE (25 GALLONS OR MORE) OF PETROLEUM WASTE, YOU MUST CONTACT THE OHIO EPA (AT 1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE (LEPC) WITHIN 30 MINUTES OF A SPILL OF 25 OR MORE GALLONS.

VEHICLE FUELING

VEHICLE FUELING AND MAINTENANCE WILL BE PERFORMED VIA A SMALL REFUEL TANK ON THE BACK OF A PICK-UP TRUCK.

OPEN BURNING NOTE

OPEN BURNING IS NOT PERMITTED IN THE CORPORATION LIMIT.

TIPP CITY SCHOOLS NEW BUS MAINTENANCE **BUILDING - SWPPP CITY OF TIPP CITY PROJECT DESCRIPTION** THIS PROJECT CONSISTS OF THE CONSTRUCTION A NEW BUILDING AND

MIAMI COUNTY, OHIO

SWPPP TITLE SHEET C4.1SWPPP GENERAL EROSION CONTROL NOTES AND DETAILS C4.2-C4.4 SWPPP SITE EROSION CONTROL PLAN C4.5

CONTACT INFORMATION

FACILITY SITE LOCATION: 575 N HYATT STREET, TIPP CITY, OHIO 45371 OWNER: TIPP CITY SCHOOLS, 937-667-8448, 615 E KESSLER-COWLESVILLE ROAD, TIPP CITY, OHIO 45371 SWPPP CONTACT/CONTRACTOR CONTACT - TBD

SWPPP AND INSPECTION REPORTS LOCATION

NOTE: THE SWPPP AND INSPECTION REPORTS WILL BE KEPT ON-SITE IN THE JOB TRAILER/FOREMAN'S PICK-UP.

WASTE DISPOSAL NOTE

CONTAINERS (e.g. DUMPSTERS, DRUMS) MUST BE AVAILABLE FOR THE DISPOSAL OF DEBRIS, TRASH, HAZARDOUS MATERIAL AND PETROLEUM WASTES. ALL CONTAINERS MUST BE COVERED AND LEAK-PROOF.

CLEAN HARD FILL NOTE

LEAN CONSTRUCTION WASTES SHALL BE DISPOSED OF INTO THE PROPERTY.

FUELING AND STAGING NOTE

CONTRACTOR'S STAGING AND STORAGE AREA WILL BE LOCATED WITHIN CONSTRUCTION LIMITS OF THE PROJECT. FUEL C. CONTRACTOR IS RESPONSIBLE FOR IMMEDIATELY CLEANING UP ANY MUD, DIRT AND TANKS AND OTHER HAZARDOUS MATERIALS TO BE SAFELY STORED, PROTECTED, AND PROPERLY HANDLED BY CONTRACTOR. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ENSURE NO POLLUTANTS FROM THE STAGING/STORAGE AREA LEAVE THE SITE OR ENTER ADJACENT SURFACE WATERS OR THE STORM SYSTEM. CONTRACTOR SHALL CLEAN UP AND PROPERLY DISPOSE OF ANY WASTE MATERIALS.

SOIL STOCKPILE NOTE

CONTRACTOR'S SHALL LOCATE SOIL STOCKPILE AREAS WITHIN THE PROJECT AREA SO AS NOT TO BE WITHIN THE IMMEDIATE PROXIMITY OF ANY SURFACE WATERS OR STORM INLET STRUCTURES. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ENSURE NO POLLUTANTS FROM THE STOCKPILE AREA LEAVE THE SITE OR ENTER ADJACENT SURFACE WATERS OR THE STORM SYSTEM. THESE MEASURES MAY INCLUDE BUT SHALL NOT BE LIMITED TO INSTALLING FILTER FABRIC FENCE AROUND STOCKPILE. TEMPORARILY COVERING THE STOCKPILE AND/OR TEMPORARILY SEEDING THE STOCKPILE.

DEWATERING NOTE

PUMPING OF SEDIMENT LADEN WATER FROM TRENCHES OR ANY OTHER EXCAVATIONS DIRECTLY INTO ANY SURFACE WATERS, DITCH OR STREAM CORRIDORS, ANY WETLANDS OR STORM SEWERS IS PROHIBITED. ALL SUCH WATER SHALL BE PROPERLY FILTERED OR SETTLED TO REMOVE SOIL PARTICLES PRIOR TO ITS RELEASE. IF AN AREA OF THE SITE OR TRENCH NEEDS DEWATERED, IT SHOULD BE PUMPED FROM A SUMP PIT WITH A SOCK FILTER OR OTHER TYPE OF FILTERING DEVICE ON THE DISCHARGE OF THE HOSE. DO NOT ALLOW DISCHARGED WATER TO PASS OVER DISTURBED GROUND. IF THE DISCHARGE WATER IS BEING PUMPED INTO A SEDIMENT POND THEN NO FILTER IS REQUIRED AT THE END OF THE HOSE. IF THE GROUNDWATER MUST BE LOWERED, THE WATER MAY BE FREELY DISCHARGED AS LONG AS THE WATER REMAINS CLEAN. DO NOT CO-MINGLE CLEAN GROUND WATER WITH SEDIMENT LADEN WATER OR DISCHARGE IT BY ALLOWING IT TO PASS OVER DISTURBED GROUND.

LOG/DOCUMENTATION SHEETS

AS PART OF THE SWPPP, THE CONTRACTOR SHALL MAINTAIN LOG/DOCUMENTATION SHEETS FOR THE FOLLOWING: 1) A SIGNATURE LOG CONTAINING THE SIGNATURES OF ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED IN THE IMPLEMENTATION OF THE SWPPP AS PROOF ACKNOWLEDGING THAT THEY REVIEWED AND UNDERSTAND THE CONDITIONS AND RESPONSIBILITIES OF THE SWPPP. 2) A GRADING AND STABILIZATION LOG DOCUMENTING THE PROJECTS GRADING AND STABILIZATION ACTIVITIES AND 3) A SWPPP AMENDMENT LOG DOCUMENTING CHANGES/AMENDMENTS TO THE SWPPP, WHICH OCCUR AFTER CONSTRUCTION ACTIVITIES COMMENCE.



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ASSOCIATED DRIVES AND PARKING. SITE WORK TO INCLUDE STORM SEWER, SANITARY SEWER, WATER, SITE GRADING, PAVEMENT WORK AND BUILDING CONSTRUCTION.

PROJECT WORK CONSTRUCTION DATES

START: SUMMER 2024 ESTIMATED COMPLETION: FALL 2025

EROSION CONTROL NOTES

- A. INSTALL AND MAINTAIN FILTER FABRIC FENCE AND INLET PROTECTION WHERE SHOWN AND AS NEEDED TO MINIMIZE SEDIMENT LADEN WATER FROM LEAVING THE SITE OR ENTERING ANY STORM SYSTEM. ADJACENT DITCHES. STREAMS ETC. IF STORMWATER RUNOFF CONTAINING SEDIMENTS IS FOUND TO BE LEAVING THE PROJECT SITE IN AN AREA WHERE NO BMP/CONTROL MEASURE IS SHOWN OR IN PLACE. CONTRACTOR SHALL IMMEDIATELY INSTALL THE APPROPRIATE BMP/CONTROL MEASURE AS NEEDED TO REMEDY THE SITUATION (TYP. INLET PROTECTION, FILTER FABRIC FENCE, ETC.).
- B. INSTALL INLET PROTECTION ON ALL STORM INLET STRUCTURES (YARD DRAINS, CATCH BASINS, MANHOLES WITH GRATED LIDS, ETC.) AND TO ANY EXISTING STORM STRUCTURES WITHIN THE PROJECT AREA WHICH MAY RECEIVE RUNOFF FROM THE CONSTRUCTION SITE AS NEEDED. INLET PROTECTION MAY CONSIST OF DEVICES SUCH AS SEDCAGE (WWW.SEDCATCH.COM), DANDY BAGS, SEDIGUARD FILTERS, FLEXSTORM INLET FILTERS, SEDIMENT FENCE OR OTHER DEVICES WHICH ARE EFFECTIVE AT MINIMIZING THE AMOUNT OF SEDIMENT ENTERING THE STRUCTURE.
- DEBRIS WHICH IS TRACKED OR SPILLED ONTO THE ROADWAYS.
- D. PRE CONSTRUCTION CONTRACTOR IS RESPONSIBLE TO INSTALL A CONSTRUCTION ENTRANCE AS NEEDED TO MINIMIZE ANY MUD, DIRT AND DEBRIS TRACKED ONTO THE ROADWAYS.
- E. DURING CONSTRUCTION THE CONTRACTOR MUST MAINTAIN EROSION CONTROL UNTIL AREA IS STABILIZED INCLUDING TEMPORARY SEEDING AS NEEDED. CONTRACTOR SHALL TEMPORARYILY SEED ALL CRITICAL EXPOSED SLOPES TO MINIMIZE SEDIMENT RUNOFF.
- F. FINAL/POST CONSTRUCTION CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS. CONTRACTOR SHALL ENSURE GRASS IS PERMANENTLY AND PROPERLY ESTABLISHED IN ALL AREAS WHERE GRASS IS SPECIFIED. ALL SEDIMENT AND EROSION CONTROL STRUCTURES, INCLUDING SEDIMENT FENCE, SHALL REMAIN IN PLACE UNTIL GRASS IS IN PLACE AND SITE IS STABILIZED. ONCE SITE IS STABILIZED AND ALL CONSTRUCTION IS COMPLETE, ALL SEDIMENT FENCE, INLET PROTECTION AND ANY OTHER TEMPORARY BMP'S SHALL BE REMOVED FROM THE SITE.

BMP NOTES

FOR ALL BMP'S INSTALLED, ENSURE THAT THE PONDING OF WATER BEHIND THE BMP WILL NOT DAMAGE PROPERTY OR POSE A SAFETY THREAT. IF PERIODIC INSPECTIONS OR OTHER INFORMATION INDICATES A CONTROL MEASURE/BMP HAS BEEN USED INAPPROPRIATELY, THE CONTRACTOR MUST REPLACE AND ADJUST THE CONTROL/BMP TO MEET SITE CONDITIONS AS REQUIRED. THE CONTRACTOR SHALL ADJUST THE SWPPP AND ITS CONTROLS/BMPS AND THEIR QUANTITIES TO MEET FIELD CONDITIONS AND THE OHIO EPA'S NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION ACTIVITIES GENERAL PERMIT.

MAINTENANCE NOTE

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO ENSURE ALL TEMPORARY AND PERMANENT CONTROL PRACTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ENSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED IN A FUNCTIONAL CONDITION UNTIL ALL UP-SLOPE AREAS THEY CONTROL ARE PERMANENTLY STABILIZED. THE SWP3 SHALL BE DESIGNED TO MINIMIZE MAINTENANCE REQUIREMENTS. THE APPLICANT SHALL PROVIDE A DESCRIPTION OF MAINTENANCE PROCEDURES NEEDED TO ENSURE THE CONTINUED PERFORMANCE OF CONTROL PRACTICES.

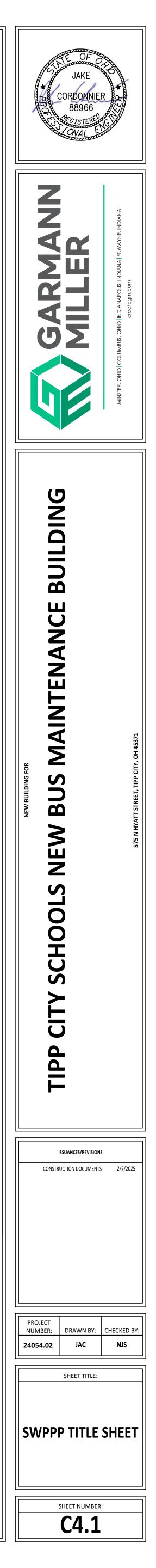
SWPPP AND INSPECTION AVAILABILITY AND UPDATES NOTE

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO ENSURE THE IMMEDIATE AVAILABILITY OF THE SWPPP AND INSPECTION REPORTS ON-SITE. THE CONTRACTOR SHALL ALSO BE SOLELY RESPONSIBLE TO PERFORM AND DOCUMENT ALL REQUIRED SWPPP INSPECTIONS AND ALL UPDATES AND AMENDMENTS TO THE SWPPP.

DOCUMENTATION AND GOVERNMENT INSPECTION NOTE

CONTRACTOR(S) SHALL PROVIDE THE OWNER'S REPRESENTATIVE A WRITTEN COPY OF THEIR CO-PERMITTEE APPLICATION AND ANY OTHER DOCUMENTATION THE CONTRACTOR(S) MAY SEND OR RECEIVE FROM THE OEPA OR ANY OTHER GOVERNING AUTHORITIES.

IF AN INSPECTOR OR REPRESENTATIVE FROM THE OEPA OR ANY OTHER GOVERNING AUTHORITY IS ON-SITE, THE CONTRACTOR SHALL IMMEDIATELY CONTACT AND NOTIFY THE OWNER'S REPRESENTATIVE.



IMPLEMENTATION SCHEDULE (EROSION CONSTRUCTION SEQUENCE)

CONTRACTOR OR ITS APPOINTED REPRESENTATIVES WILL ASSUME RESPONSIBILITY FOR INSTALLATION, INSPECTION AND MAINTENANCE OF ALL SOIL EROSION CONTROL MEASURES DURING CONSTRUCTION. THE INSTALLATION OF THE SOIL EROSION CONTROL MEASURES WILL BE COMPLETED. AS FOLLOWS: A. PRIOR TO ANY GRADING OR EARTHWORK: A-1. SILT FENCE AND INLET PROTECTION (ON EX. STORM STRUCTURES) TO BE INSTALLED AS SHOWN ON SWPPP A-2. INSTALL CONSTRUCTION ENTRANCE(S) IF NEEDED AS SHOWN ON SWPPP. INSTALLATION OF ALL OTHER EROSION AND SEDIMENT

CONTROL MEASURES, E.G. ROCK CHECK DAMS, CONCRETE WASHOUT PIT, SEDIMENT BASIN, ETC. PERFORM ROUGH GRADING, INSTALL UTILITIES, BUILDINGS, PAVEMENT: -1. CLEAR AND GRUB AREA AS NEEDED 3-2. PERFORM SITE GRADING. INSTALL BUILDING(S) B-3. INSTALL SANITARY, STORM, WATER LINES, OTHER UTILITIES, GRAVEL BASE, AND CURB AND GUTTER, AS PER PLAN(S), INSTALL INLET

PROTECTION ON ALL PROPOSED STORM INLET STRUCTURES AS INDICATED ON THE PLANS AS SOON AS THEY ARE INSTALLED. B-4 PERFORM TEMPORARY SEEDING AS NEEDED ON ANY DISTURBED AREAS PER THE TIME REQUIREMENTS FOR TEMPORARY SEEDING SPECIFIED ON THIS DRAWING. B-5 INSTALL PAVEMENT PERFORM FINAL GRADING: 1. PLACE TOPSOIL AND PERFORM FINAL RAKING AND GRADING ON ALL DISTURBED AREAS.

2-2. ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED (SEEDED AND/OR MULCHED) -3. CLEAN UP SITE, AND ONCE SITE HAS REACHED FINAL STABILIZATION REMOVE ALL TEMPORARY BMP'S. NOTES. A) CARE WILL BE TAKEN NOT TO DISTURB ANY EXISTING NATURAL VEGETATION NOT INVOLVED IN THE CONSTRUCTION PROCESS,

WHENEVER POSSIBLE. B) TIMELY INSPECTIONS OF THE EROSION CONTROL MEASURES WILL BE MADE, BY THE CONTRACTOR, EVERY 7 DAYS, AND/OR AFTER ANY RAINFALL OF AT LEAST 1/2" IN A 24-HOUR PERIOD. REPORTS MUST BE KEPT ON-SITE AND SUPPLIED TO THE GOVERNING AUTHORITY IF REQUESTED. **INSPECTION SCHEDULE**

A. THE SITE WILL BE INSPECTED PER OHIO EPA PERMIT No. OHCO00006:

PART III.G.2.1

GROUND IS FROZEN).

INSPECTIONS. THE PERMITTEE SHALL ASSIGN QUALIFIED INSPECTION PERSONNEL TO CONDUCT INSPECTIONS TO ENSURE THAT THE CONTROL RACTICES ARE FUNCTIONAL AND TO EVALUATE WHETHER THE SWP3 IS ADEQUATE AND PROPERLY IMPLEMENTED IN ACCORDANCE WITH THE SCHEDULE PROPOSED IN PART III.G.1.H OF THE OHCO00006 PERMIT OR WHETHER ADDITIONAL CONTROL MEASURES ARE REQUIRED. AT A MINIMUM, PROCEDURES IN A SWP3 SHALL PROVIDE THAT ALL CONTROLS ON THE SITE ARE INSPECTED: * AFTER ANY STORM EVENT GREATER THAN ONE-HALF INCH OF RAIN PER 24-HOUR PERIOD BY THE END OF THE NEXT CALENDAR DAY, EXCLUDING WEEKENDS AND HOLIDAYS UNLESS WORK IS SCHEDULED; AND * ONCE EVERY SEVEN CALENDAR DAYS.

THE INSPECTION FREQUENCY MAY BE REDUCED TO AT LEAST ONCE EVERY MONTH FOR DORMANT SITES IF: * THE ENTIRE SITE IS TEMPORARILY STABILIZED OR * RUNOFF IS UNLIKELY DUE TO WEATHER CONDITIONS FOR EXTENDED PERIODS OF TIME (E.G. SITE IS COVERED WITH SNOW, ICE, OR THE

THE BEGINNING AND ENDING DATES OF ANY REDUCED INSPECTION FREQUENCY SHALL BE DOCUMENTED IN THE SWP3. ONCE A DEFINABLE AREA HAS ACHIEVED FINAL STABILIZATION, THE AREA MAY BE MARKED ON THE SWP3 AND NO FURTHER INSPECTION REQUIREMENTS SHALL APPLY TO THAT PORTION OF THE SITE.

FOLLOWING EACH INSPECTION, A CHECKLIST MUST BE COMPLETED AND SIGNED BY THE QUALIFIED INSPECTION PERSONNEL REPRESENTATIVE. AT A MINIMUM, THE INSPECTION REPORT SHALL INCLUDE: THE INSPECTION DATE: NAMES, TITLES, AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION;

WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION (OR SINCE COMMENCEMENT OF CONSTRUCTION ACTIVITY IF THE IRST INSPECTION) INCLUDING A BEST ESTIMATE OF THE BEGINNING OF EACH STORM EVENT, DURATION OF EACH STORM EVENT, APPROXIMATE AMOUNT OF RAINFALL FOR EACH STORM EVENT (IN INCHES), AND WHETHER ANY DISCHARGES OCCURRED; WEATHER INFORMATION AND A DESCRIPTION OF ANY DISCHARGES OCCURRING AT THE TIME OF THE INSPECTION. LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE; LOCATION(S) OF BMPS THAT NEED TO BE MAINTAINED:

vii. LOCATION(S) OF BMPS THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION: ii. LOCATION(S) WHERE ADDITIONAL BMPS ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION; AND ix. CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO THE SWP3 NECESSARY AND IMPLEMENTATION DATES.

DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF OR THE POTENTIAL FOR POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE SWP3 SHALL BE OBSERVED TO ENSURE THAT THOSE ARE OPERATING CORRECTLY. DISCHARGE LOCATIONS SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO THE RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE VEHICLE

THE PERMITTEE SHALL MAINTAIN FOR THREE YEARS FOLLOWING THE SUBMITTAL OF A NOTICE OF TERMINATION FORM, A RECORD SUMMARIZING THE RESULTS OF THE INSPECTION, NAMES(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE SWP3 AND A CERTIFICATION AS TO WHETHER THE FACILITY IS IN COMPLIANCE WITH THE SWP3 AND THE PERMIT AND IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE. THE RECORD AND CERTIFICATION SHALL BE SIGNED IN ACCORDANCE WITH PART V.G. OF THIS PERMIT.

WHEN PRACTICES REQUIRE REPAIR OR MAINTENANCE. IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE IS IN NEED OF REPAIR OR MAINTENANCE, WITH THE EXCEPTION OF A SEDIMENT SETTLING POND, IT SHALL BE REPAIRED OR MAINTAINED WITHIN 3 DAYS OF THE INSPECTION. SEDIMENT SETTLING PONDS SHALL BE REPAIRED OR MAINTAINED WITHIN 10 DAYS OF THE INSPECTION. WHEN PRACTICES FAIL TO PROVIDE THEIR INTENDED FUNCTION. IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE FAILS TO

PERFORM ITS INTENDED FUNCTION AND THAT ANOTHER, MORE APPROPRIATE CONTROL PRACTICE IS REQUIRED, THE SWP3 SHALL BE AMENDED AND THE NEW CONTROL PRACTICE SHALL BE INSTALLED WITHIN 10 DAYS OF THE INSPECTION. . WHEN PRACTICES DEPICTED ON THE SWP3 ARE NOT INSTALLED. IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE HAS NOT

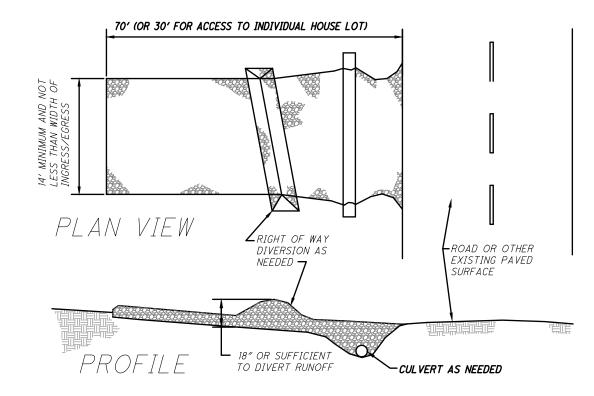
BEEN IMPLEMENTED IN ACCORDANCE WITH THE SCHEDULE CONTAINED IN PART III.G.1.H OF THIS PERMIT, THE CONTROL PRACTICE SHALL BE IMPLEMENTED WITHIN 10 DAYS FROM THE DATE OF THE INSPECTION. IF THE INSPECTION REVEALS THAT THE PLANNED CONTROL PRACTICE IS NOT NEEDED, THE RECORD SHALL CONTAIN A STATEMENT OF EXPLANATION AS TO WHY THE CONTROL PRACTICE IS NOT NEEDED. B. VEGETATIVE PLANTINGS - SPRING PLANTINGS WILL BE CHECKED DURING SUMMER OR EARLY FALL. C. REPAIRS - ANY EROSION CONTROL MEASURES, STRUCTURAL MEASURES, OR OTHER RELATED ITEMS IN NEED OF REPAIR WILL BE MADE

WITHIN 7 DAYS. D. MOWING - DRAINAGE WAYS, DITCHES, AND OTHER AREAS THAT SUPPORT A DESIGNED FLOW OF WATER WILL BE MOWED REGULARLY TO MAINTAIN THAT FLOW. E. FERTILIZATION - SEEDED AREAS WHERE THE SEED HAS NOT PRODUCED A GOOD COVER WILL BE INSPECTED AND FERTILIZED AS NECESSARY.

CONSTRUCTION ENTRANCE STONE SIZE - 2" STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.

LENGTH - THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS, BUT NOT LESS THAN "O' (EXCEPT ON SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH APPLIES). THICKNESS - THE STONE LAYER SHALL BE AT LEAST 6" THICK. WIDTH - THE ENTRANCE SHALL BE AT LEAST 10' WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS BFDDING - A GEOTEXTILE SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL HAVE A GRAB TENSILE STRENGTH OF AT LEAST 200 LBS. AND A MULLEN BURST STRENGTH OF AT LEAST 190 LBS. F. CULVERT - A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE, IF NEEDED, TO PREVENT SURFACE WATER FLOWING ACROSS THE ENTRANCE FROM BEING DIRECTED OUT ONTO PAVED SURFACES (IF DRIVE IS PLACED ACROSS A DITCH). G. WATER BAR - A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE, IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES (IF DRIVE IS PLACED ON A SLOPE). H. MAINTENANCE - TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED, DR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING. CONSTRUCTION ENTRANCE SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFFSITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SITE SHALL BE RESTRICTED FROM MUDDY AREAS. CONSTRUCTION ENTRANCES ARE INSTALLED TO MINIMIZE OFFSITE TRACKING OF SEDIMENTS. A STONE ACCESS DRIVE SHOULD BE INSTALLED AT EVERY POINT WHERE VEHICLES ENTER OR EXIT THE SITE. EVERY INDIVIDUAL LOT SHOULD ALSO HAVE ITS OWN DRIVE ONCE

CONSTRUCTION ON THE LOT BEGINS. **NOTE:** ALTERNATIVE STABILIZATION METHODS FOR CONSTRUCTION ENTRANCE/EXIT SUCH AS MANUFACTURED STEEL PLATES, GRID PLATES, ETC. OR STEEL PIPES/GRATINGS WILL ALSO BE CONSIDERED BUT WILL REQUIRE WRITTEN APPROVAL FROM THE OWNER PRIOR TO THE USE OF SUCH ALTERNATIVE METHODS AS ON-SITE CONSTRUCTION ENTRANCES/EXIT. ANY PROPOSED ALTERNATIVE METHODS SHALL SHALL BE SHOWN TO EFFECTIVELY REMOVE MUD AND DEBRIS FROM VEHICLE WHEELS PRIOR TO EXITING THE SITE.



CONSTRUCTION ENTRANCE DETAIL

NON-SEDIMENT POLLUTION CONTROL 4. CONSTRUCTION PERSONNEL, INCLUDING SUBCONTRACTORS WHO MAY USE OR HANDLE HAZARDOUS OR TOXIC MATERIALS, SHALL BE MADE AWARE OF THE FOLLOWING GENERAL GUIDELINES: DISPOSAL AND HANDLING OF HAZARDOUS AND OTHER CONSTRUCTION WASTE * PREVENT SPILLS * USE PRODUCTS UP * FOLLOW LABEL DIRECTIONS FOR DISPOSAL * REMOVE LIDS FROM EMPTY BOTTLES AND CANS WHEN DISPOSING IN TRASH

* RECYCLE WASTE WHENEVER POSSIBLE ΠΟΝ/Τ * DON'T POUR INTO WATERWAYS, STORM DRAINS, OR ONTO THE GROUND * DON'T POUR DOWN THE SINK, FLOOR DRAIN, OR SEPTIC TANKS * DON'T BURY CHEMICALS OR CONTAINERS * DON'T BURN CHEMICALS OR CONTAINERS * DON'T MIX CHEMICALS TOGETHER

B. CONTAINERS SHALL BE PROVIDED FOR COLLECTION OF ALL WASTE MATERIAL INCLUDING CONSTRUCTION DEBRIS, TRASH, PETROLEUM, AND ANY HAZARDOUS MATERIALS TO BE USED ON SITE. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THAT MATERIAL

NO CONSTRUCTION-RELATED MATERIALS ARE TO BE BURIED ON SITE. D. MIXING, PUMPING, TRANSFERRING, OR OTHERWISE HANDLING CONSTRUCTION CHEMICALS SUCH AS FERTILIZER, LIME, ASPHALT, TRENCHER, CABLE LAYING MACHINE, OR OTHER SUITABLE DEVICE WHICH WILL ENSURE AN ADEQUATELY UNIFORM TRENCH CONCRETE DRYING COMPOUNDS, AND ALL OTHER POTENTIALLY HAZARDOUS MATERIALS SHALL BE PERFORMED IN AN AREA AWAY FROM ANY WATERCOURSE, DITCH, OR STORM DRAIN.

E. EQUIPMENT FUELING AND MAINTENANCE, OIL CHANGING, ETC., SHALL BE PERFORMED AWAY FROM WATERCOURSES, DITCHES, OR STORM DRAINS, IN AN AREA DESIGNATED FOR THAT PURPOSE. THE DESIGNATED AREA SHALL BE EQUIPPED FOR RECYCLING OIL AND CATCHING SPILLS.

F. CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. A SUMP OR PIT SHALL BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER. G. IF HAZARDOUS SUBSTANCES SUCH AS OIL, DIESEL FUEL, HYDRAULIC FLUID, ANTIFREEZE, ETC. ARE SPILLED, LEAKED, OR RELEASED ONTO THE SOIL, THE SOIL SHOULD BE DUG UP AND DISPOSED OF WITH THE TRASH AT A LICENSED SANITARY LANDFILL ALL THE GAPS AND TEARS IN THE FENCE MUST BE ELIMINATED AND REPAIRED. IF RUNOFF OVERTOPS THE SILT FENCE, (NOT A CONSTRUCTION/DEMOLITION DEBRIS LANDFILL). SPILLS ON PAVEMENT SHALL BE ABSORBED WITH SAWDUST OR KITTY LITTER AND DISPOSED OF WITH THE TRASH AT A LICENSED SANITARY LANDFILL. HAZARDOUS OR INDUSTRIAL WASTES SUCH AS MOST SOLVENTS, GASOLINE, OIL-BASED PAINTS, AND CEMENT CURING COMPOUNDS REQUIRE SPECIAL HANDLING. CONTACT OHIO EPA (1-800-282-9378).

H. SPILLS OF 25 GAL. OR MORE OF PETROLEUM PRODUCTS SHALL BE REPORTED TO OHIO EPA (1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MIN. OF THE DISCOVERY OF THE RELEASE. I. STREETS NEED TO BE SWEPT AS OFTEN AS NECESSARY TO KEEP THEM CLEAN AND FREE FROM SEDIMENT. SEDIMENT TO BE SWEPT BACK ONTO THE LOT - NOT DOWN THE STORM SEWER.

J. STOCKPILES OF SOIL AND OTHER MATERIALS SHALL BE STORED AWAY FROM WATERCOURSES, DITCHES, OR STORM DRAINS, AND SHALL HAVE EROSION CONTROL MATERIALS PLACED AROUND THEM.

K. ALL STREAM CROSSINGS SHALL BE CONSTRUCTED ENTIRELY OF NON-ERODIBLE MATERIAL. PROCESS WASTEWATER/LEACHATE MANAGEMENT NOTE ALL PROCESS WASTEWATERS (e.g. EQUIPMENT WASHING, LEACHATE ASSOCIATED WITH ON-SITE WASTE DISPOSAL, AND CONCRETE WASH-OUTS) MUST BE COLLECTED AND DISPOSED OF PROPERLY (e.g. TO A PUBLICLY-OWNED TREATMENT WORKS). THE NPDES CONSTRUCTION STORM WATER GENERAL PERMIT ONLY AUTHORIZES THE DISCHARGE OF STORM WATER AND CERTAIN

UNCONTAMINATED NON-STORM WATERS. THE DISCHARGE OF NON-STORM WATERS TO WATERS OF THE STATE MAY BE IN VIOLATION OF LOCAL, STATE, AND FEDERAL LAWS OR REGULATIONS. HANDLING OF TOXIC OR HAZARDOUS MATERIALS NOTE

NO SOLID, SANITARY, OR TOXIC WASTE IS TO BE DISPOSED OF ON THE PROJECT SITE. RECYCLING OF USED OR UNUSED HAZARDOUS MATERIALS SHALL NOT OCCUR ON SITE EITHER. AREAS DESIGNATED FOR CEMENT TRUCK WASHOUTS, AND VEHICLE FUELING SHALL NOT TAKE PLACE ON PARKING LOT BASE. CONSTRUCTION CHEMICAL COMPOUNDS NOTE

NO MIXING OR STORAGE OF CHEMICAL COMPOUNDS SUCH AS FERTILIZERS, LIME, ASPHALT, OR CONCRETE ARE PERMITTED TO TAKE PLACE ON-SITE. ALL MIXING SHALL TAKE PLACE BEFORE ENTERING THE SITE.

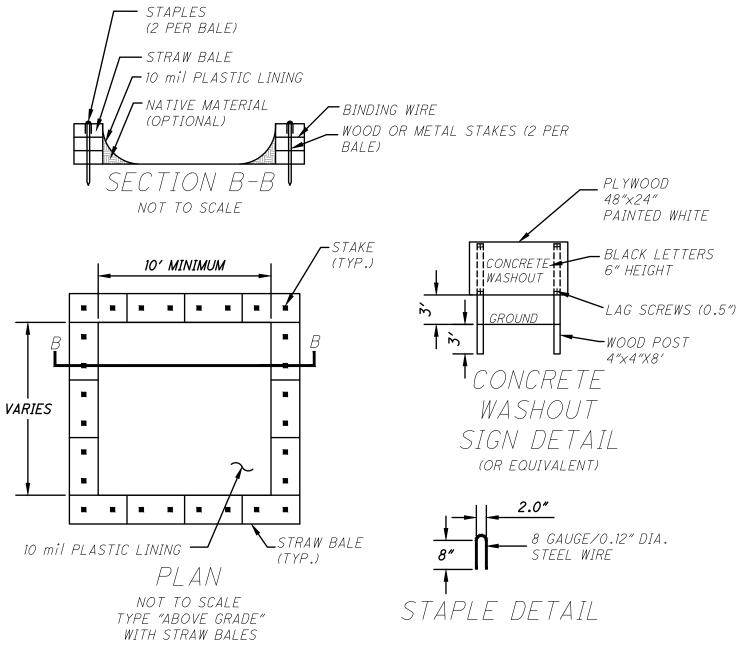
CONSTRUCTION & DEMOLITION DEBRIS NOTE ALL CONSTRUCTION AND DEMOLITION DEBRIS (C&DD) WASTE SHALL BE DISPOSED OF IN AN OHIO EPA APPROVED C&DD LANDFILL OF FLOW AS REQUIRED BY OHIO REVISED CODE (ORC) 3714. MATERIALS WHICH CONTAIN ASBESTOS MUST COMPLY WITH AIR POLLUTION REGULATIONS (SEE OHIO ADMINISTRATIVE CODE 3745-20).

CONTAMINATED SOILS NOTE

SOILS CONTAMINATED BY PETROLEUM OR OTHER CHEMICAL SPILLS SHALL BE HANDLED AND DISPOSED OF PROPERLY. ALL CONTAMINATED SOILS MUST BE TREATED AND/OR DISPOSED OF IN AN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITY OR HA7ARDOUS WASTE TREATMENT. STORAGE OR DISPOSAL FACILITY (TSDFs). IF CONTAMINATION HAPPENS TO OCCUR, TARPS ARE TO BE USED TO PREVENT STORM WATER FROM COMING INTO CONTACT WITH THE MATERIAL.

CONCRETE WASHOUT NOTE

CONCRETE WASHOUT OPERATIONS SHALL TAKE PLACE WITHIN THE PROPOSED PROJECT AREA UTILIZING THE CONTRACTOR'S PORTABLE CONCRETE WASHOUT CONTAINER OR WITHIN A BERMED/CONTAINED AREA. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ENSURE WASHOUT MATERIAL DOES NOT LEAVE THE WASHOUT AREA OR ENTER THE STORM SYSTEM. CONTRACTOR SHALL CLEAN UP AND PROPERLY DISPOSE OF ALL LEFTOVER WASHOUT MATERIAL.



DUST CONTROL

AIRBORNE DUST CREATED BY CONSTRUCTION AND CONSTRUCTION RELATED ACTIVITIES. CONSTRUCTION OF A FILTER BARRIER (SILT FENCE)

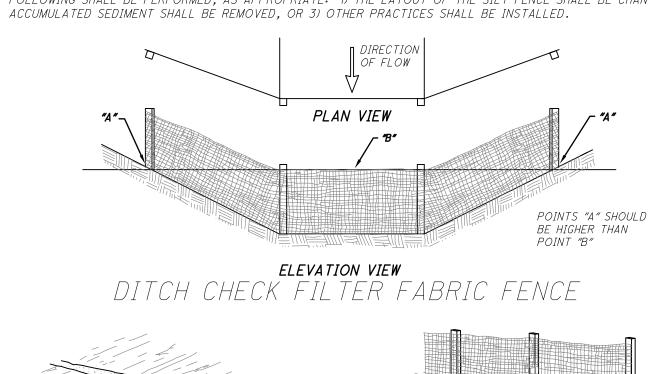
A. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS B. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH. C. TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPSLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION.

D. WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5' (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.

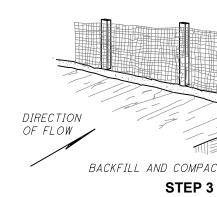
C. NO WASTE MATERIALS SHALL BE BURIED ON SITE. SITE PERSONNEL, INCLUDING SUBCONTRACTORS, SHALL BE NOTIFIED THAT F. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16" ABOVE THE ORIGINAL GROUND SURFACE. THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MINIMUM OF 6" DEEP. THE TRENCH SHALL BE CUT WITH A DEPTH.

THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8" OF CLOTH IS BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6" DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED.

SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE OVERLAPPED WITH THE END STAKES OF EACH SECTION WRAPPED TOGETHER BEFORE DRIVING INTO THE GROUND. J. MAINTENANCE - SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2)



DIRECTION FXCAVATE A 6"X6" TRENCH ALONG THE PROPOSED FENCE LINE. STEP 1



DITCH CHECK FILTER FABRIC FENCE FILTER FABRIC FENCE DETAIL

CRITERIA FOR SILT FENCE MATERIAL

STURBED AREAS THAT WILL BE IDLE OVER WINTER FENCE POSTS - THE LENGTH SHALL BE A MINIMUM OF 48" LONG. WOOD POSTS WILL BE 2"-BY-2" HARDWOOD OF SOUND QUALITY. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 5'. POSTS/SUPPORT STAKES SHALL BE DRIVEN A WHERE VEGETATIVE STABILIZATION TECHNIQUES MAY CAUSE STRUCTURAL INSTABILITY OR ARE MINIMUM OF 16" INTO THE GROUND. OTHERWISE UNOBTAINABLE, ALTERNATIVE STABILIZATION TECHNIQUES MUST BE EMPLOYED. B. SILT FENCE FABRIC SHALL CONFORM TO THE AASHTO SILT FENCE SPECIFICATION 100X AND SHALL HAVE A

MINIMUM 100# GRAB TENSILE. SILT FENCE SHALL ALSO CONFORM TO THE MOST RECENT ODOT STANDARD FOR SEDIMENT/SILT FENCE (TABLE 712.09-1) C. SILT FENCE SHALL BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PERMANENT STABILIZATION ALL AREAS AT FINAL GRADE MUST BE PERMANENTLY STABILIZED WITHIN 7 DAYS OF REACHING FINAL GRADE. THIS IS

USUALLY ACCOMPLISHED BY USING SEED AND MULCH, BUT SPECIAL MEASURES ARE SOMETIMES REQUIRED. THIS IS PARTICULARLY TRUE IN DRAINAGE DITCHES/SWALES, LOW AREAS, DETENTION POND BOTTOMS AND SIDES OR ON STEEP SLOPES. THESE MEASURES INCLUDE, BUT ARE NOT LIMITED TO, THE INSTALLATION OF EROSION CONTROL BLANKETS AND/OR MATTING. ADDITION OF TOPSOIL. OR ROCK RIP-RAP. CONTRACTOR SHALL UTILIZE THESE AND ANY OTHER SPECIAL MEASURES AS NEEDED TO PERMANENTLY STABILIZE THE SITE. PERMANENT SEEDING SHOULD BE DONE MARCH 1 TO MAY 31 AND AUGUST 1 TO SEPTEMBER 30. DORMANT SEEDING CAN BE DONE FROM NOVEMBER 20 TO MARCH 15. AT TOP 6". ALL OTHER TIMES OF THE YEAR, THE AREA SHOULD BE TEMPORARILY STABILIZED UNTIL A PERMANENT SEEDING CAN BE APPLIED.

AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO AP
ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE.	WITHIN 7 DAYS OF DISTURBANCE.
ANY AREAS WITHIN 50' OF A SURFACE WATER OF THE STATE (STREAM, WATERWAY, WATER BODY, ETC.) AND AT FINAL GRADE	WITHIN 2 DAYS OF ,
ANY OTHER AREAS AT FINAL GRADE.	WITHIN 7 DAYS OF WITHIN THAT AREA

SOILS EXPOSED NOTE CONTRACTOR SHALL PLAN AND IMPLEMENT CONSTRUCTION AND GRADING ACTIVITIES TO MINIMIZE THE AMOUNT OF SOIL EXPOSED DURING CONSTRUCTION ACTIVITIES.

CONCRETE WASHOUT DETAIL

DUST CONTROL SHALL BE PROVIDED AS NEEDED TO PREVENT SEDIMENT FROM BECOMING AIRBORNE. MEASURES SHALL INCLUDE WATERING VIA A WATER TRUCK OR OTHER WATERING DEVICE AS NEEDED TO REDUCE AND/OR ELIMINATE



PLACE FABRIC AND SUPPORT STAKES AND EXTEND FABRIC INTO THE TRENCH.



BACKFILL AND COMPACT THE EXCAVATED SOIL.

APPLY EROSION CONTROLS

REACHING FINAL GRADE

THE MOST RECENT REACHING FINAL GRADE

TEMPORARY SEEDING SPECIES SELECTION

SEEDING DATES	SPECIES L.B./1000 SQ. F		PER ACRE
MARCH 1 TO AUGUST 15	OATS TALL FESCUE ANNUAL RYEGRASS PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	3 1 1 1 1 1 1	4 BUSHELS 40 LBS. 40 LBS. 40 LBS. 40 LBS. 40 LBS.
AUGUST 16 TO NOVEMBER 1	RYE TALL FESCUE ANNUAL RYEGRASS WHEAT TALL FESCUE ANNUAL RYEGRASS PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	3 1 1 1 1 1 1 1 1 1 1	2 BUSHELS 40 LBS. 40 LBS. 2 BUSHELS 40 LBS. 40 LBS. 40 LBS. 40 LBS. 40 LBS.
NOVEMBER 1 TO SPRING SEEDING	USE MULCH ONLY, SODDING	PRACTICES OR DORMA	ANT SEEDING

SPECIFICATIONS FOR TEMPORARY SEEDING

NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED.

. TO MINIMIZE COSTS OF TEMPORARY STABILIZATION, LEAVE NATURAL COVER IN PLACE FOR AS LONG AS POSSIBLE. ONLY DISTURB AREAS YOU INTEND TO WORK WITHIN THE NEXT 14 DAYS. B. STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS AND SEDIMENT TRAPS SHALL BE INSTALLED AND STABILIZED WITH TEMPORARY SEEDING PRIOR TO GRADING THE REST OF THE CONSTRUCTION SITE.

C. THE SEEDBED SHOULD BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION. HOWEVER, TEMPORARY SEEDING SHALL NOT BE POSTPONED IF IDEAL SEEDBED PREPARATION IS NOT POSSIBLE.

D. SOIL AMENDMENTS - APPLICATIONS OF TEMPORARY VEGETATION SHALL ESTABLISH ADEQUATE STANDS OF VEGETATION WHICH MAY REQUIRE THE USE OF SOIL AMENDMENTS. SOIL TESTS SHOULD BE TAKEN ON THE SITE TO PREDICT THE NEED FOR LIME AND FERTILIZER.

E. SEEDING METHOD - SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER. OR HYDROSEEDER. WHEN FEASIBLE. SEED THAT HAS BEEN BROADCAST SHALL BE COVERED BY RAKING OR DRAGGING AND THEN LIGHTLY PLACED USING A ROLLER OR CULTIPACKER. IF HYDROSEEDING IS USED. THE SEED AND FERTILIZER WILL BE MIXED ON SITE AND THE SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION.

MULCHING TEMPORARY SEEDING

A. APPLICATIONS OF TEMPORARY SEEDING SHALL INCLUDE MULCH WHICH SHALL BE APPLIED DURING OR IMMEDIATELY AFTER SEEDING. SEEDINGS MADE DURING OPTIMUM SEEDING DATES AND WITH FAVORABLE SOIL CONDITIONS AND ON VERY FLAT AREAS MAY NOT NEED MULCH TO ACHIEVE ADEQUATE STABILIZATION.

- B. MATERIALS: • STRAW - IF STRAW IS USED. IT SHALL BE UNROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/ACRE OR 90 LBS./1,000 SQ. FT. (TWO TO THREE BALES). THE MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQ. FT. SECTIONS AND SPREAD TWO 45 LBS. BALES OF STRAW IN EACH SECTION.
- HYDROSEEDERS IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE USED AT 2,000 LB/AC. OR 46 LBS./1,000 SQ. FT. • OTHER - OTHER ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TONS/AC.
- STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER. ANCHORING METHODS: -MECHANICAL - A DISK. CRIMPER. OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED, BUT GENERALLY, BE LEFT LONGER THAN 6". -MULCH NETTINGS - NETTINGS SHALL BE USED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. NETTING MAY BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATION RUN OFF AND ON CRITICAL SLOPES. -SYNTHETIC BINDERS - SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER. -WOOD CELLULOSE FIBER - WOOD-CELLULOSE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LBS./AC. THE WOOD-CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LBS./1000 GAL.

AREA REQUIRING TEMPORARY STABILIZATION TIME FRAME TO APPLY EROSION CONTROLS DISTURBED AREAS WITHIN 50' OF A SURFACE WITHIN 2 DAYS OF THE MOST RECENT DISTURBANCE I. WATER OF THE STATE (STREAM, WATERWAY, WATER THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS BODY, ETC.) AND NOT AT FINAL GRADE. WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE WITHIN ANY DISTURBED AREAS THAT WILL BE DORMANT FOR THE AREA MORE THAN 14 DAYS BUT LESS THAN 1 YEAR, AND NOT WITHIN 50' OF A SURFACE WATER OF THE STATE OR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST STREAM, WATERWAY, WATER BODY, ETC.) BE STABILIZED AT LEAST 7 DAYS PRIOR TO TRANSFER C PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S). PRIOR TO THE ONSET OF WINTER WEATHER

PERMANENT STABILIZATION ODOT ITEM 659 SEEDING AND MULCHING, CLASS 1 (LAWN

MIXTURE), AS PER PLAN HIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 659, SEEDING AND MULCHING, EXCEPT AS HEREIN MODIFIED.

ALL DISTURBED AREAS OR AREAS DESIGNATED FOR SEEDING SHALL BE GRADED AND SEEDED AND SHALL HAVE A MINIMUM OF 6" OF TOPSOIL OVER THE ENTIRE AREA. TESTING THE PH OF ANY EXISTING OR IMPORTED TOPSOIL PER ODOT 659.02 SHALL BE WAIVED. THE AREA SHALL BE HAND-RAKED AND DRESSED READY FOR SEEDING. NO STONE OVER 13/2 IN SIZE PERMITTED IN THE

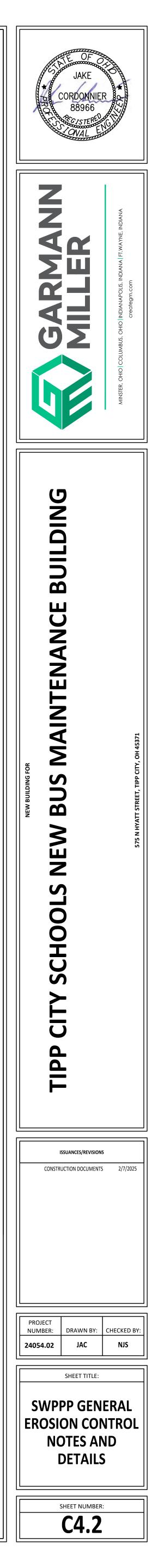
SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL.

IT\$425 THE CONTRACTOR\$425 SOLE RESPONSIBILITY TO PROVIDE THE REQUIRED GERMINATION RATES AND ENSURE THE GRASS IS ESTABLISHED TO THE SATISFACTION OF THE OWNER WHICH MAY REQUIRE WATERING, REGRADING/ADDING TOPSOIL AND RESEEDING. ANY AREAS THAT HAVE ERODED OR WHERE NEW GRASS DID NOT GERMINATE SHALL BE ADDRESSED BY THE CONTRACTOR UNTIL THE AREAS ARE STABILIZED, SHAPED, AND DRAINED, AS INDICATED IN THE PLANS.

ANY DISTURBED AREA, OUTSIDE OF THE PROJECT WORK LIMITS, CAUSED BY THE CONTRACTOR 5/32S WORK, SHALL BE RESTORED TO THE SATISFACTION OF THE PROPERTY OWNER AND PROJECT OWNER'S REPRESENTATIVE, AT THE CONTRACTOR $\frac{5}{32}$ S SOLE EXPENSE.

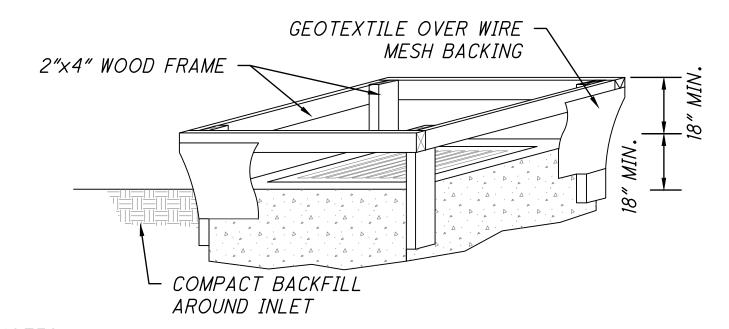
THIS ITEM INCLUDES: TOPSOIL, SEEDING, MULCHING, COMMERCIAL FERTILIZER, WATER, AND REPAIR SEEDING AND MULCHING.

THE ABOVE SHALL BE INCIDENTAL TO THE PROJECT.



INLET PROTECTION FOR STORM STRUCTURES W/ GRATE

(WWW.SEDCATCH.COM), DANDY BAGS, SEDIGUARD FILTERS, OR OTHER DEVICES (ALTERNATE PRODUCTS WHOSE PERFORMANCE IS EQUAL TO OR EXCEEDS THOSE LISTED WHICH ARE EFFECTIVE AT MINIMIZING THE AMOUNT OF SEDIMENT ENTERING THE STRUCTURE . INSTALL INLET PROTECTION ON ALL PROPOSED YARD DRAINS, CATCH BASINS AND MANHOLES WITH GRATED LIDS AND TO ALL EXISTING STORM STRUCTURES WITH GRATED LIDS WITHIN THE PROJECT AREA WHICH MAY RECEIVE RUNOFF FROM THE CONSTRUCTION SITE.



NOTES A. INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM DRAIN BECOMES OPERATIONAL.

B. THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH OF AT LEAST 18". C. THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2" BY 4" CONSTRUCTION GRADE LUMBER. THE 2" BY 4" POST SHALL BE DRIVEN I' INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF 2" BY 4" FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6" BELOW ADJACENT ROAD, IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC.

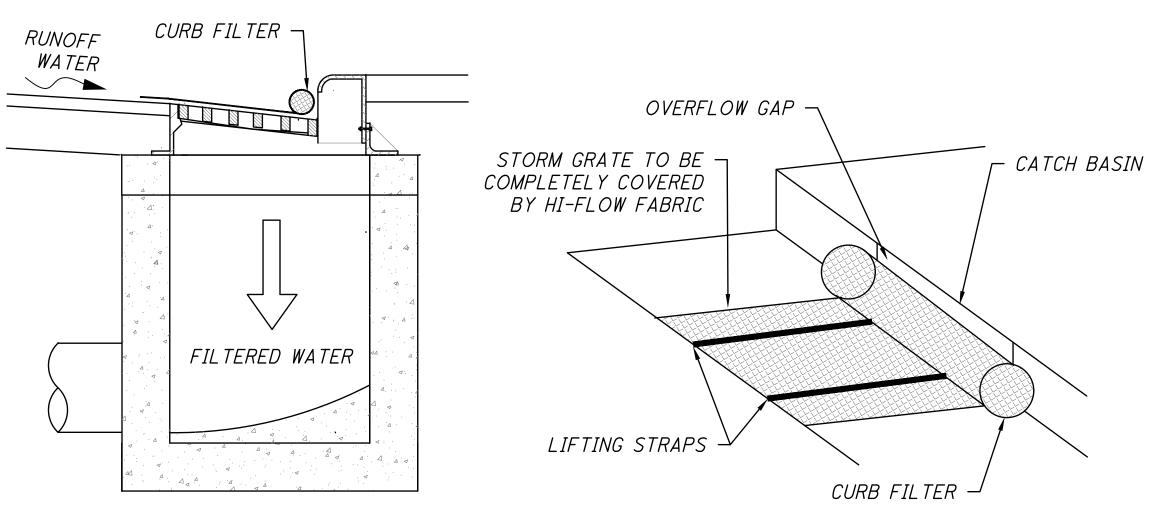
D. WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME

E. GEOTEXTILE SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM THE TOP OF THE FRAME TO 18" BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAY ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.

F. BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6" LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.

G. A COMPACTED EARTH DIKE OR A CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION, AND IF RUNOFF BY PASSING THE INLET WILL NOT FLOW TO A SETTING POND, THE TOP OF EARTH DIKES SHALL BE AT LEAST 6" HIGHER THAN THE TOP OF THE FRAME.

INLET PROTECTION IN SWALES, DITCH LINES OR YARD INLETS



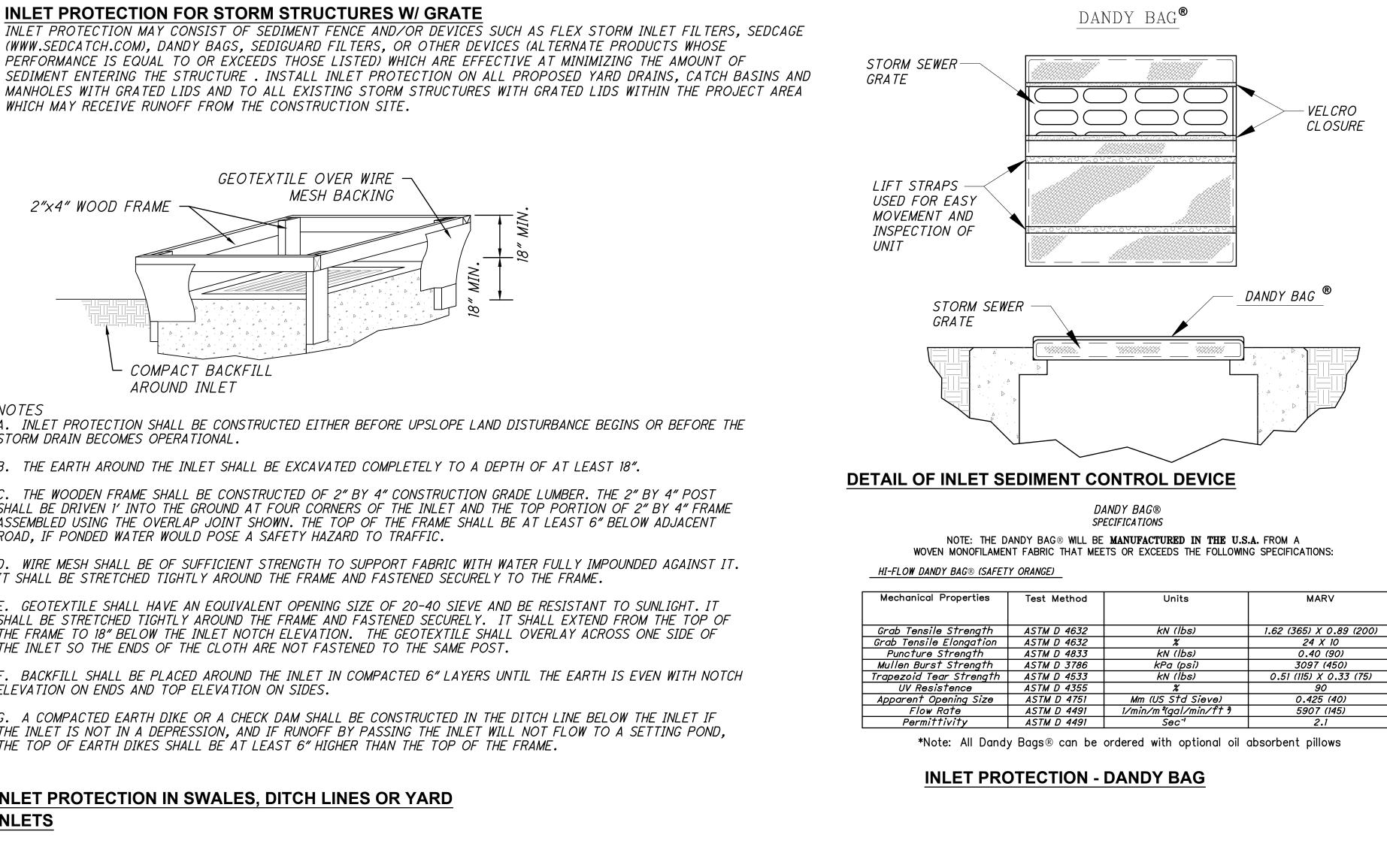
NOTES

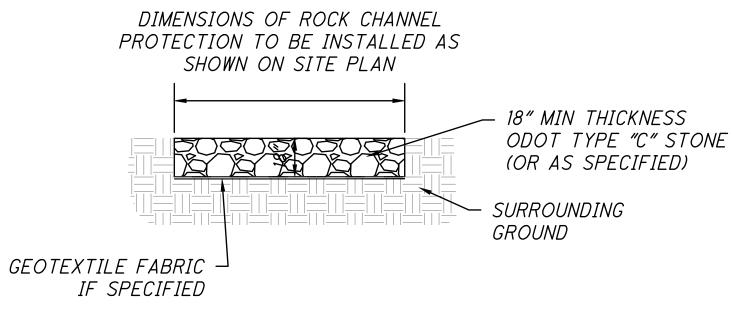
A. DANDY CURB BAG, SEDIGUARDS, OR ALTERNATE PRODUCT WHOSE PERFORMANCE IS EQUAL TO OR EXCEEDS THOSE LISTED MAY BE USED.

B. REMOVE SEDIMENT FROM CURB INLET PROTECTION BEFORE IT HINDERS THE FILTERING CAPACITY. - DANDY CURB BAG: LIFT GRATE AND REMOVE DANDY BAG, CLEAN ACCUMULATED SEDIMENT AND REPLACE BAG AS REQUIRED BY MANUFACTURER. - SEDIGUARD: CLEAN SEDIGUARD ONCE IT IS DRY WITH A STIFF BROOM AFTER EVERY RAIN.

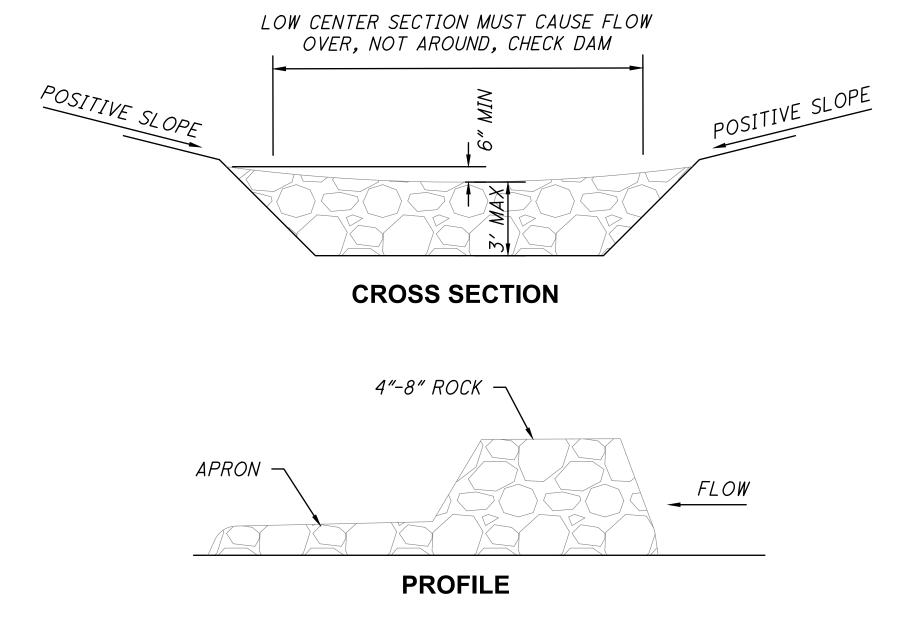
- ALTERNATE PRODUCTS: CLEAN AS REQUIRED PER MANUFACTURER'S RECCOMENDATIONS C. INLET PROTECTION SHOULD NEVER INTERFERE WITH SAFETY OF ACTIVE TRAFFIC.

CURB INLET SEDIMENT FILTER DETAIL





ROCK CHANNEL PROTECTION DETAIL FOR PIPE OUTLET



NOTES

A. THE CHECK DAM SHALL BE CONSTRUCTED OF 4-8 INCH DIAMETER STONE, PLACED SO THAT IT COMPLETELY COVERS THE WIDTH OF THE CHANNEL. ODOT TYPE D STONE IS ACCEPTABLE, BUT SHOULD BE UNDERLAIN WITH A GRAVEL FILTER CONSISTING OF ODOT No. 3 OR 4 OR SUITABLE FILTER FABRIC.

B. MAXIMUM HEIGHT OF CHECK DAM SHALL NOT EXCEED 3.0 FEET.

C. THE MIDPOINT OF THE ROCK CHECK DAM SHALL BE A MINIMUM OF 6 INCHES LOWER THAN THE SIDES IN ORDER TO DIRECT ACROSS THE CENTER AND AWAY FROM THE CHANNEL SIDES.

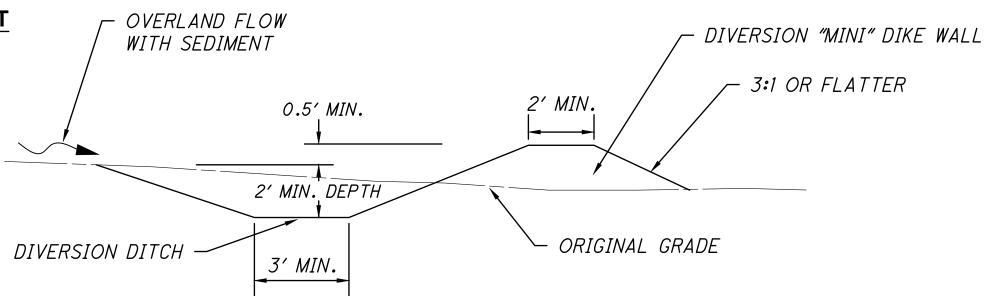
D. THE BASE OF THE CHECK DAM SHALL BE ENTRENCHED APPROXIMATELY 6 INCHES.

E. A STONE APRON SHALL BE CONSTRUCTED IMMEDIATELY DOWNSTREAM OF THE CHECK DAM TO PREVENT FLOWS FROM UNDERCUTTING THE STRUCTURE. THE APRON SHOULD BE 6 INCHES THICK AND ITS LENGTH TWO TIMES THE HEIGHT OF THE DAM.

F. STONE PLACEMENT SHALL BE PERFORMED EITHER BY HAND OR MECHANICALLY AS LONG AS THE CENTER OF CHECK DAM IS LOWER THAN THE SIDES AND EXTENDS ACROSS ENTIRE CHANNEL.

G. SIDE SLOPES SHALL BE A MINIMUM OF 2:1.

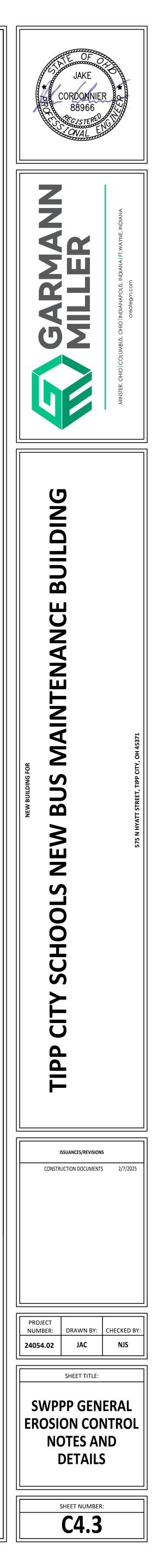
DITCH ROCK CHECK DAM



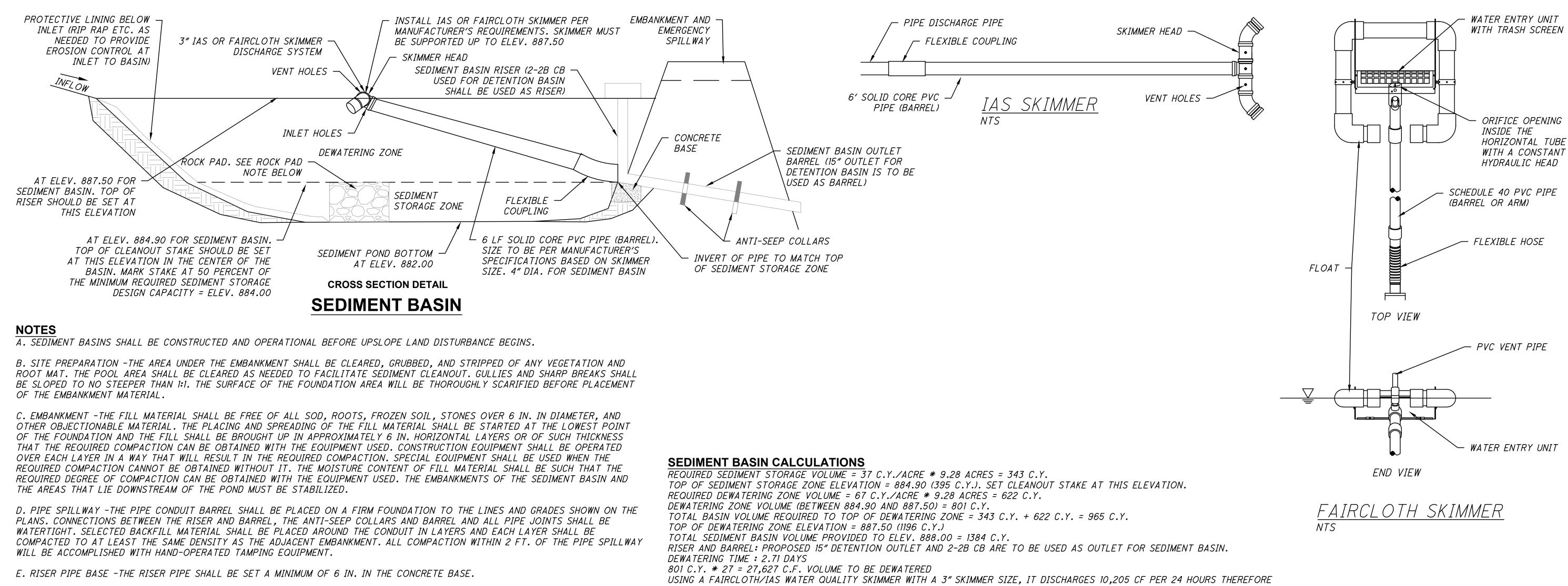
NOTES

A. BERM CAN BE CONSTRUCTED AS DITCH OR DIKE WALL B. PLACE DITCH ON A GRADE TO DRAIN TO SEDIMENT BASIN.

CROSS SECTION OF A DIVERSION BERM







F. TRASH RACKS -THE TOP OF THE RISER SHALL BE FITTED WITH TRASH RACKS FIRMLY FASTENED TO THE RISER PIPE.

G. SEED AND MULCH - THE SEDIMENT BASIN SHALL BE STABILIZED IMMEDIATELY FOLLOWING ITS CONSTRUCTION. IN NO CASE SHALL THE EMBANKMENT OR EMERGENCY SPILLWAY REMAIN BARE FOR MORE THAN 7 DAYS.

H. SEDIMENT CLEANOUT - ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT STORAGE ZONE ONCE IT EXCEEDS 50 PERCENT OF THE MINIMUM REQUIRED SEDIMENT STORAGE DESIGN CAPACITY AND PRIOR TO THE CONVERSION TO THE POST-CONSTRUCTION PRACTICE UNLESS SUITABLE STORAGE IS DEMONSTRATED BASED UPON OVER-DESIGN. THIS ELEVATION SHALL MARKED ON A CLEANOUT STAKE NEAR THE CENTER OF THE BASIN. SEDIMENT REMOVED FROM THE BASIN SHALL BE PLACED SO THAT I WILL NOT ERODE.

I. FINAL REMOVAL - SEDIMENT BASINS SHALL BE REMOVED AFTER THE UPSTREAM DRAINAGE AREA IS STABILIZED OR AS INDICATED IN THE PLANS. DEWATERING AND REMOVAL SHALL NOT CAUSE SEDIMENT TO BE DISCHARGED. THE SEDIMENT BASIN SITE AND SEDIMENT REMOVED FROM THE BASIN SHALL BE STABILIZED.

OPERATIONS AND MAINTENANCE

SEDIMENT BASINS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. NECESSARY ACTIVITIES ARE SHOWN AS FOLLOWS:

A. ESTABLISH VEGETATIVE COVER AND FERTILIZE AS NECESSARY TO MAINTAIN A VIGOROUS COVER IN AND AROUND THE SEDIMENT BASIN.

B. REMOVE UNDESIRABLE VEGETATION PERIODICALLY TO PREVENT GROWTH OF TREES AND SHRUBS ON THE EMBANKMENT AND SPILLWAY AREAS.

C. PROMPTLY REPAIR ERODED AREAS. REESTABLISH VEGETATIVE COVER IMMEDIATELY WHERE SCOUR EROSION HAS REMOVED ESTABLISHED SEEDING.

D. PROMPTLY REMOVE ANY BURROWING RODENTS THAT MAY INVADE AREAS OF THE EMBANKMENT.

E. REMOVE TRASH AND DEBRIS THAT MAY BLOCK SPILLWAYS AND ACCUMULATE IN THE POND.

F. CHECK SPILLWAY OUTLETS AND POINTS OF INFLOW TO ENSURE DRAINAGE IS NOT CAUSING EROSION AND THAT OUTLETS ARE NOT CLOGGED. REPLACE DISPLACED RIPRAP IMMEDIATELY.

ROCK PAD NOTE

IT IS VERY IMPORTANT THAT A ROCK PAD BE CONSTRUCTED TO THE HEIGHT OF THE TOP OF THE SEDIMENT STORAGE ZONE. IF THIS IS NOT DONE OR IF THE PAD IS NOT BUILT TO THE SAME HEIGHT AS THE TOP OF THE SEDIMENT STORAGE ZONE, THE SKIMMER WILL NOT FUNCTION PROPERLY .

WHEN COMPLETE THE IAS FLEXIBLE COUPLING SHOULD BE LYING FLAT ON THE ROCK PAD. THE UNIT WILL BE TOUCHING AT TWO POINTS: THE TOP OF THE BARREL/MIDDLE OF THE SKIMMER HEAD AND THE POINT AT WHICH THE BARREL IS ATTACHED TO THE IAS FLEXIBLE COUPLING. SEE MANUFACTURER'S ASSEMBLY INSTRUCTIONS.

IT WILL TAKE 2.71 DAYS TO DEWATER THIS SEDIMENT BASIN.

SEDIMENT BASIN CONVERT TO SITE DETENTION BASIN NOTE UPON COMPLETION OF THE PROJECT, IF THE SEDIMENT BASIN IS TO SERVE AND FUNCTION AS A SITE DETENTION/RETENTION BASIN, ALL SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT BASIN WHICH IS ABOVE ITS PROPOSED FINAL SURFACE GRADES THROUGHOUT THE BASIN AND ALSO AS NEEDED TO PLACE ANY REQUIRED TOPSOIL. UPON PROJECT COMPLETION AND FINAL CLEANING, THE SEDIMENT BASIN SHOULD BE ESTABLISHED TO ITS PROPOSED RETENTION/DETENTION BASIN DESIGN INCLUDING CAPACITY, GRADES, OUTLETS, FOREBAY AND MICROPOOL. OUTLET CONTROL STRUCTURE INFLOW VIA PIPE OR SURFACE FLOOD CONTROL VOLUME EXTENDED DETENTION OR WATER QUALITY VOLUME PROTECTIVE LINING BELOW INLET (ROCK CHANNEL PROTECTION TO BOTTOM OF -PROVIDE EROSION CONTROL AT INLET DETENTION BASIN TO BASIN. SEE SITE PLAN.) MICROPOOL SIZED AT 10% OF WQV -FOREBAY SIZED AT 10% OF WQV (SEE SWPPP SITE PLAN FOR SIZE) (SEE SWPPP SITE PLAN FOR SIZE) FOREBAY AND MICROPOOL CROSS SECTION

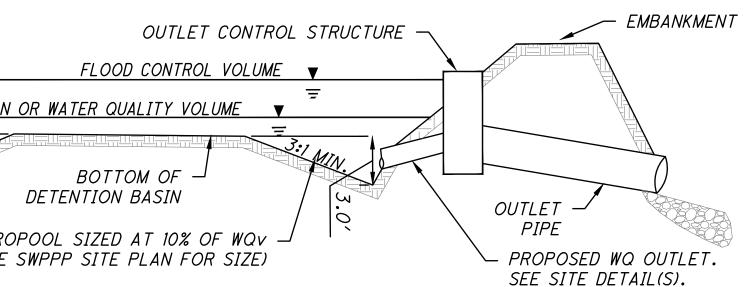
TYPICAL MAINTENANCE ACTIVITIES FOR DETENTION BASINS

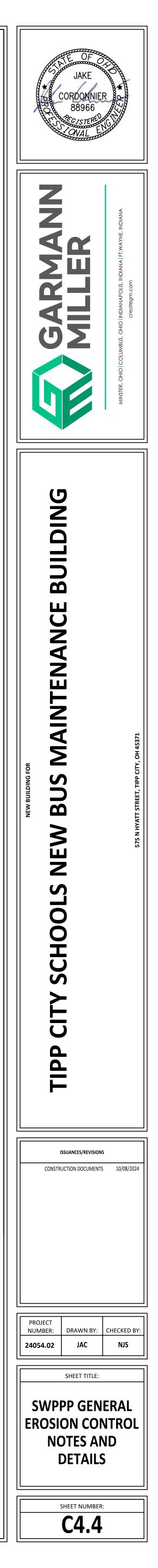
POTENTIAL POLLUTANT SOURCES POST CONSTRUCTION THAT SHOULD BE MONITORED INCLUDE: TRASH, FERTILIZERS, GRAINS, HERBICIDES, PESTICIDES, LAWN TREATMENT APPLICATIONS ALONG WITH ASSORTED FUELS, OILS, GREASE, HYDRAULIC FLUID, AND OTHER VEHICULAR FLUIDS ASSOCIATED WITH TRAFFIC THROUGHOUT THE DEVELOPED SITE. MONTHLY: MOW EMBANKMENT AND CLEAN TRASH AND DEBRIS FROM OUTLET STRUCTURE. ADDRESS ANY ACCUMULATION OF HYDROCARBONS. ANNUALLY: INSPECT EMBANKMENT AND OUTLET STRUCTURE FOR DAMAGE AND PROPER FLOW. REMOVE WOODY VEGETATION AND FIX ANY ERODING AREAS. MONITOR SEDIMENT ACCUMULATIONS IN FOREBAY AND MAIN POOL.

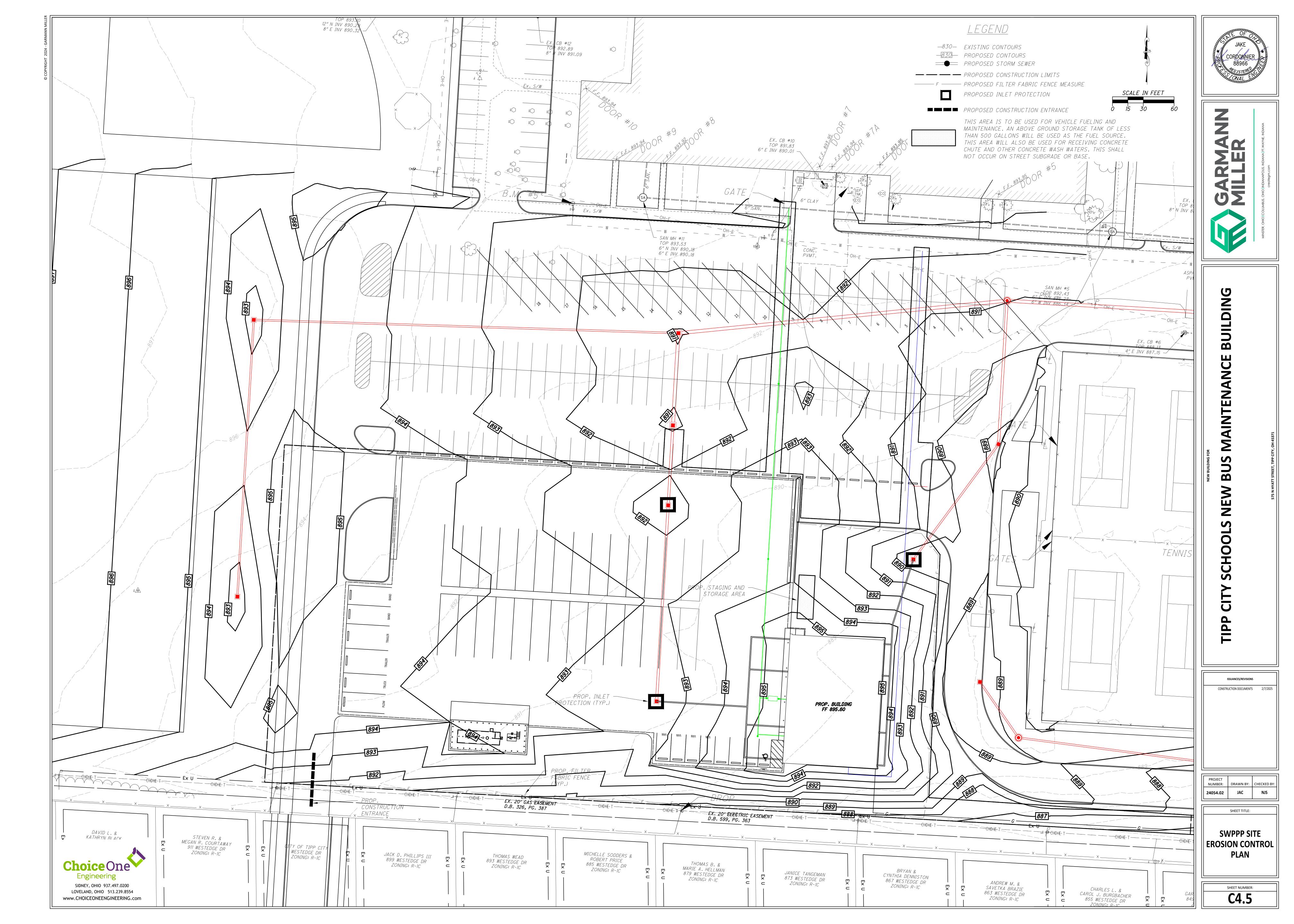
SEMI-ANNUALLY: INSPECT WETLAND AREAS FOR INVASIVE PLANS

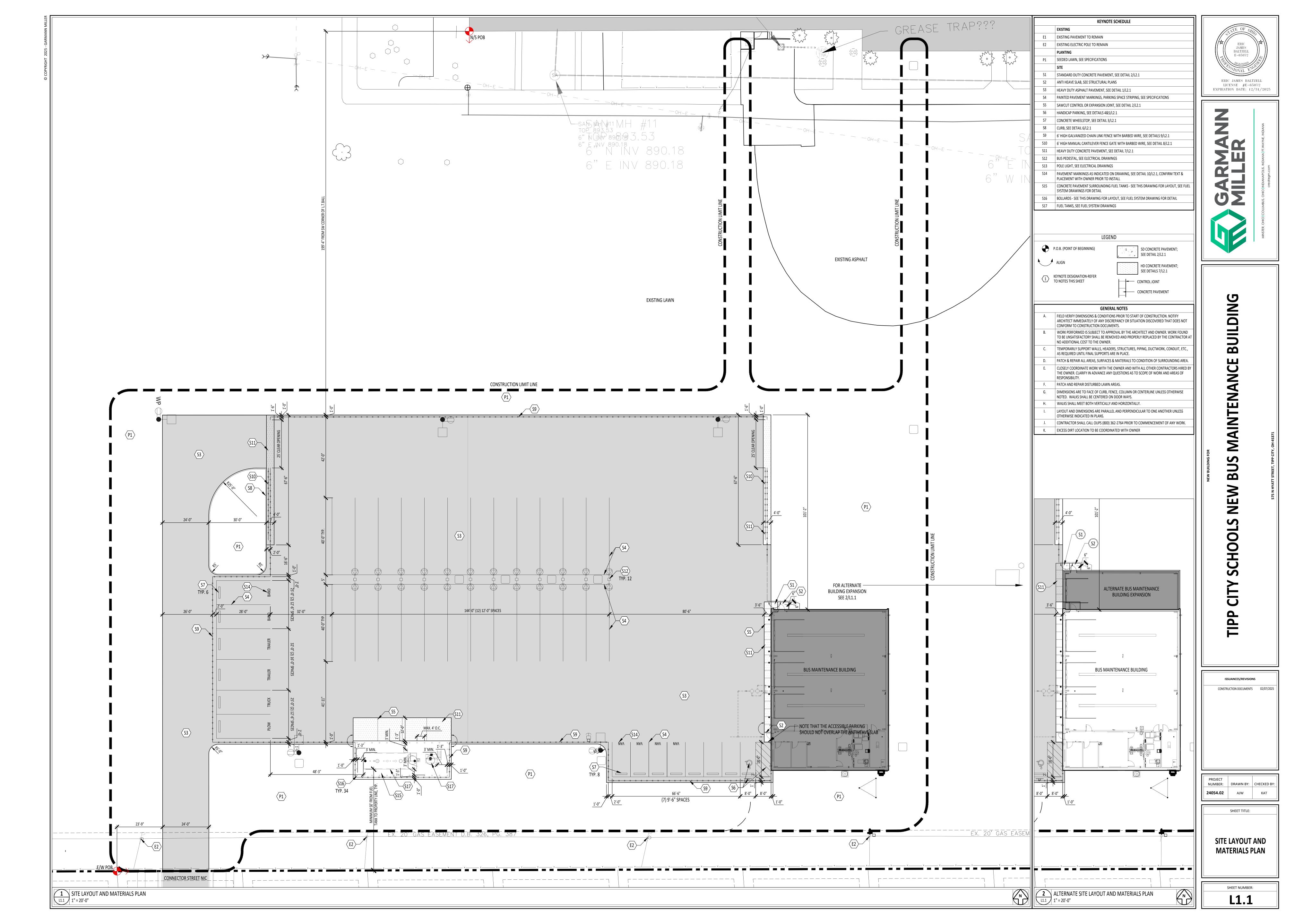
3-7 YEARS: REMOVE SEDIMENT FROM FOREBAYS.

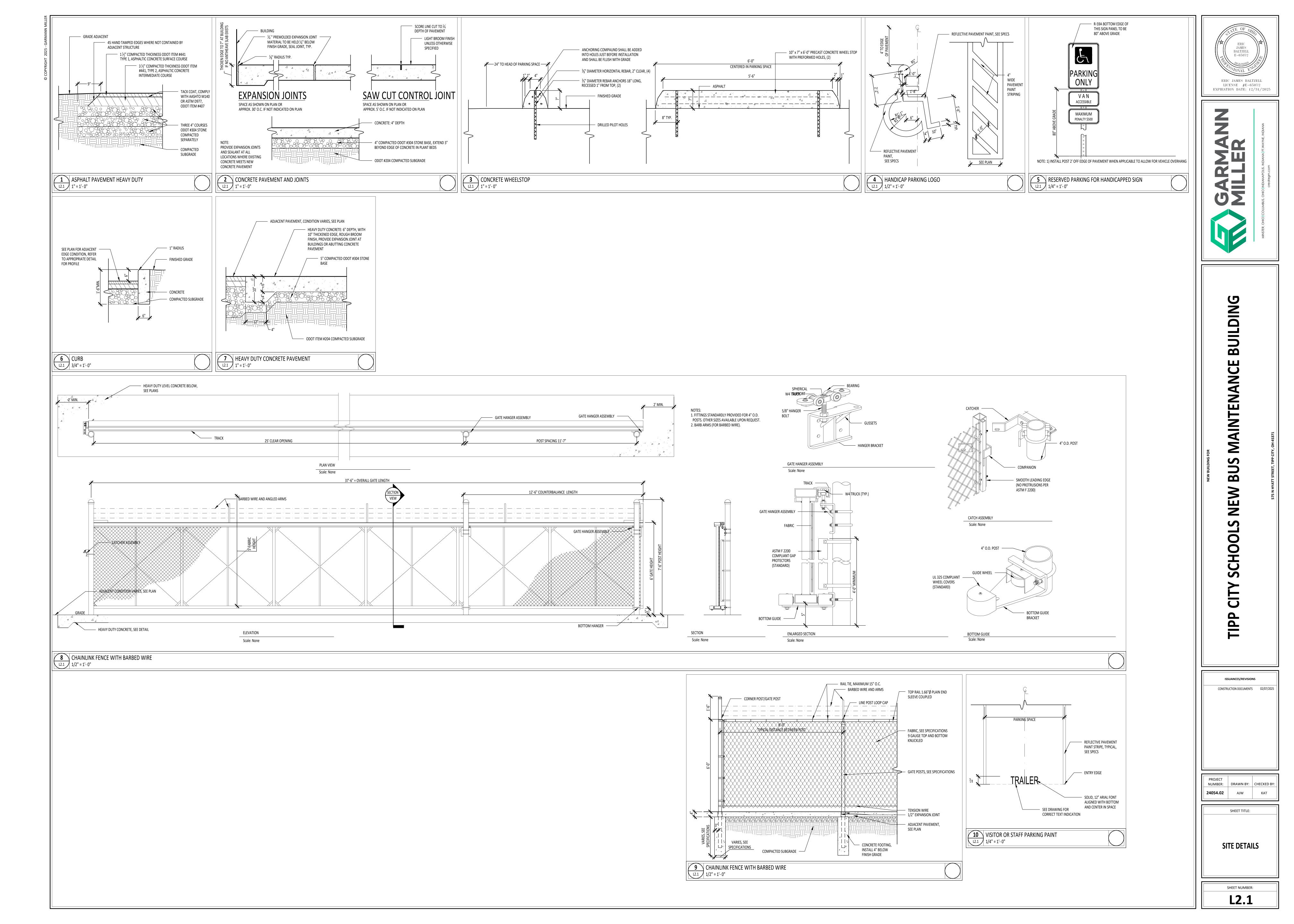
15-20 YEARS: MONITOR SEDIMENT ACCUMULATIONS IN THE MAIN POOL AND CLEAN AS POND BECOMES EUTROPHIC OR POOL VOLUME IS REDUCED SIGNIFICANTLY. FINAL DETENTION BASIN

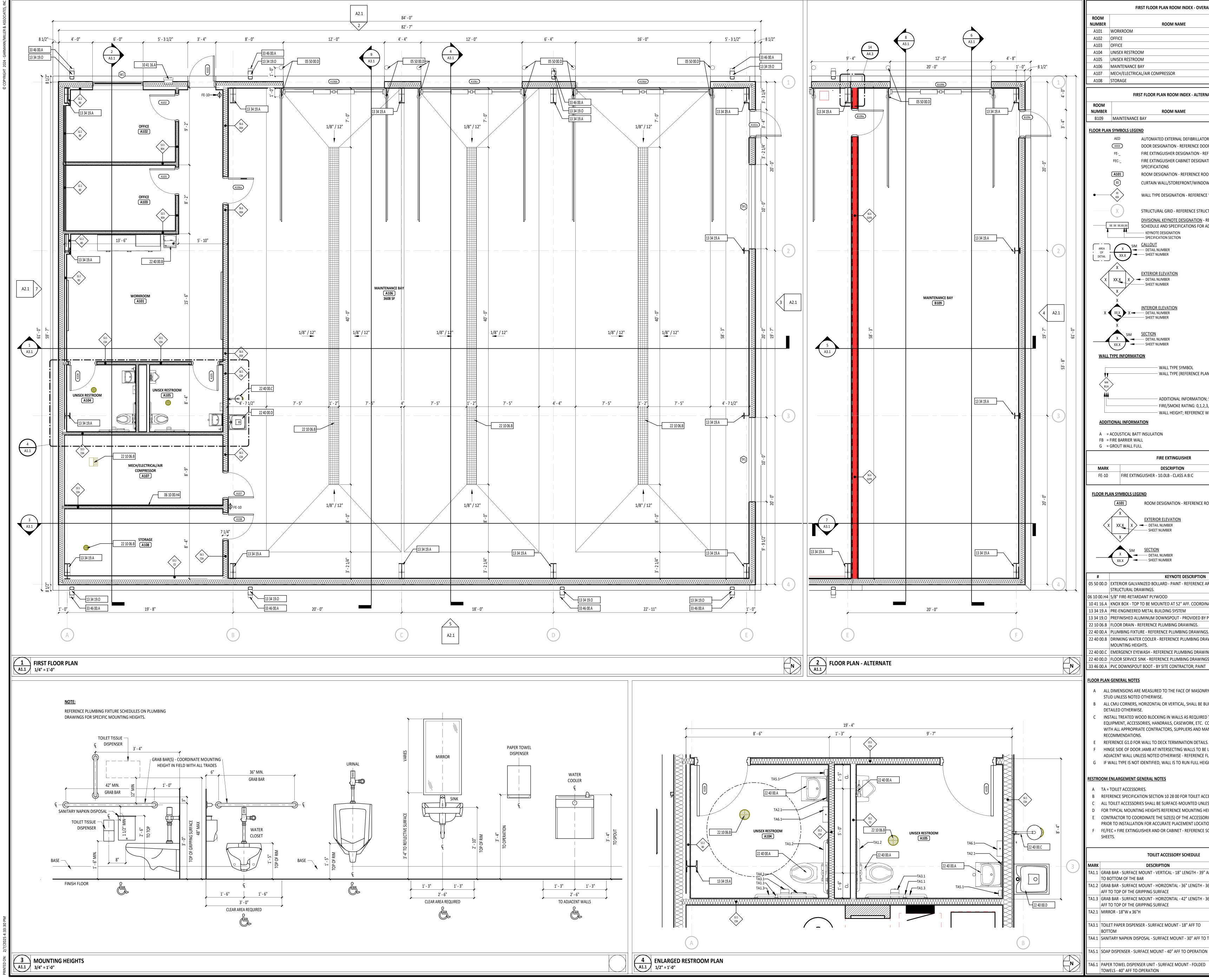




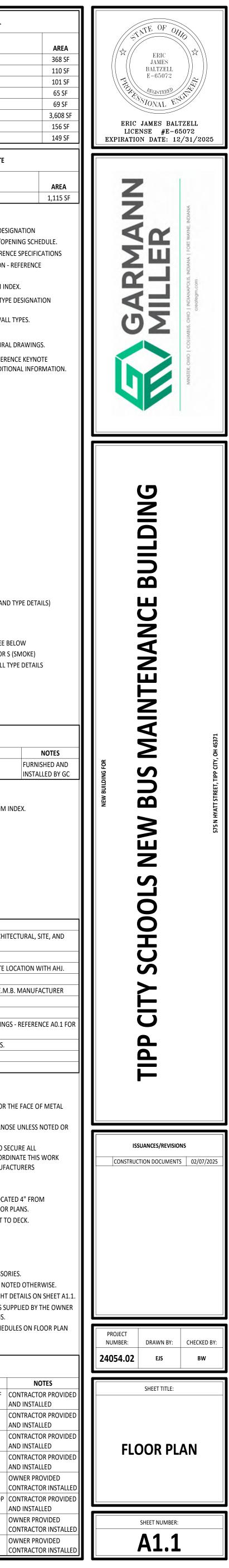


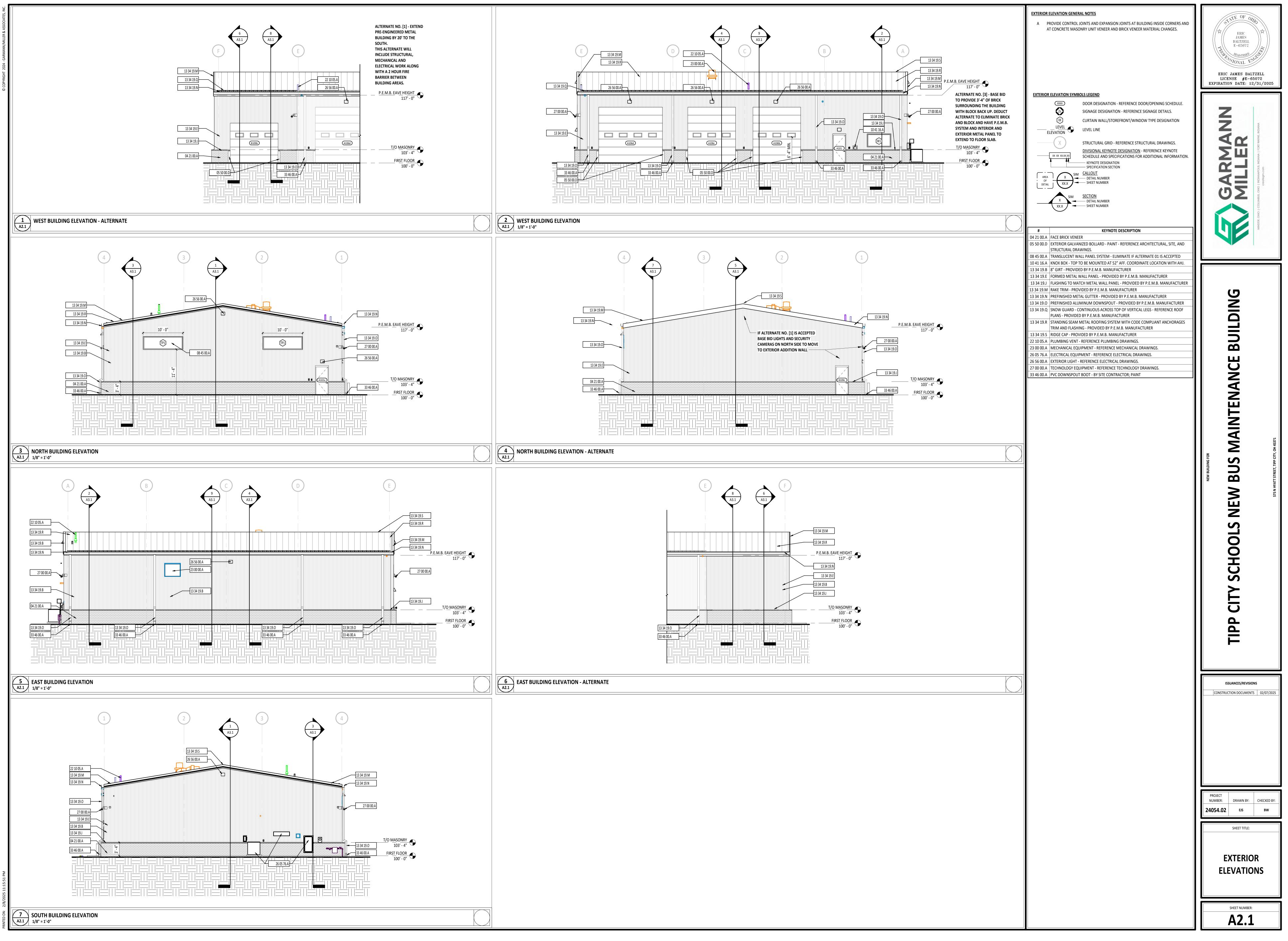


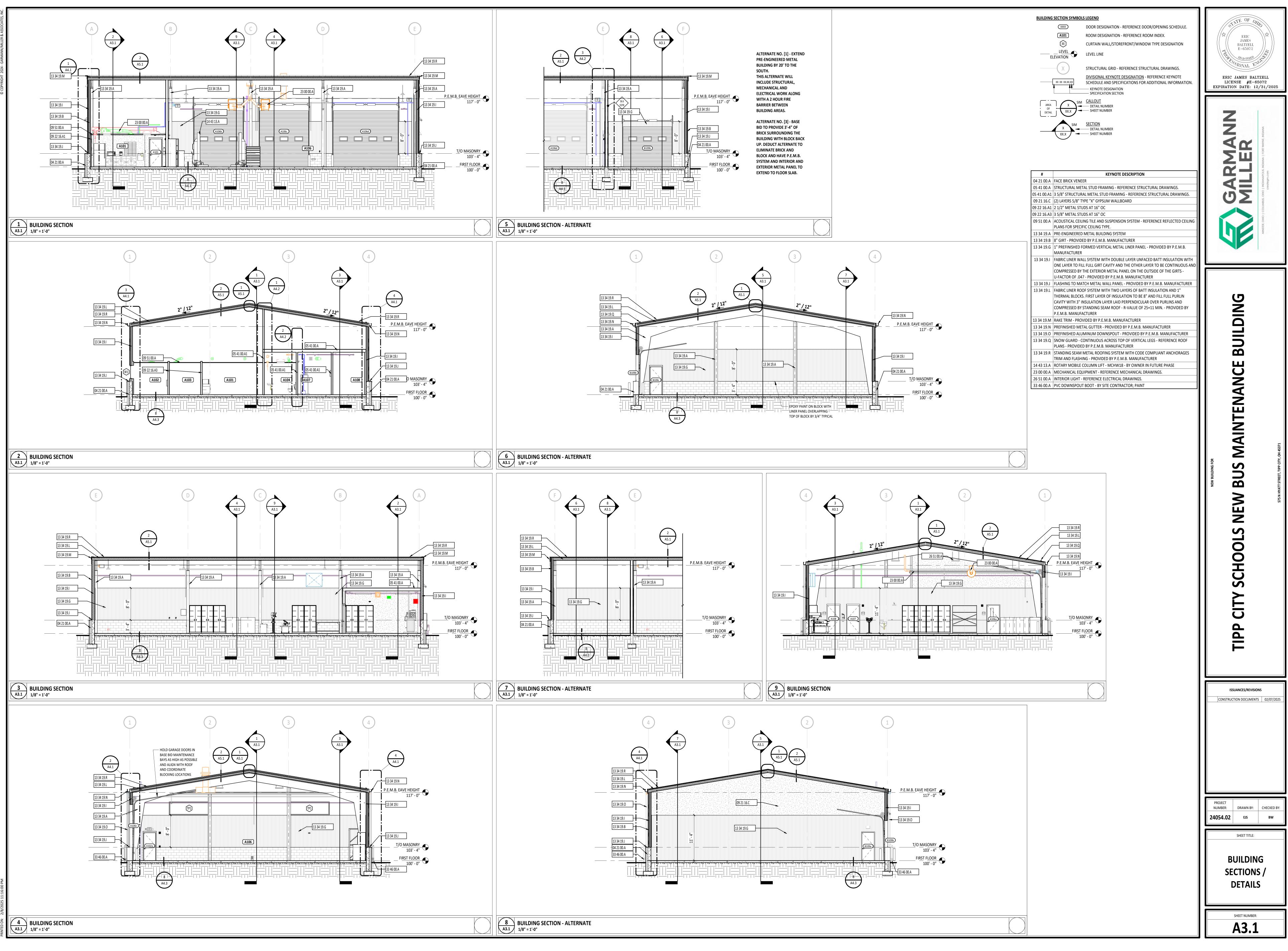


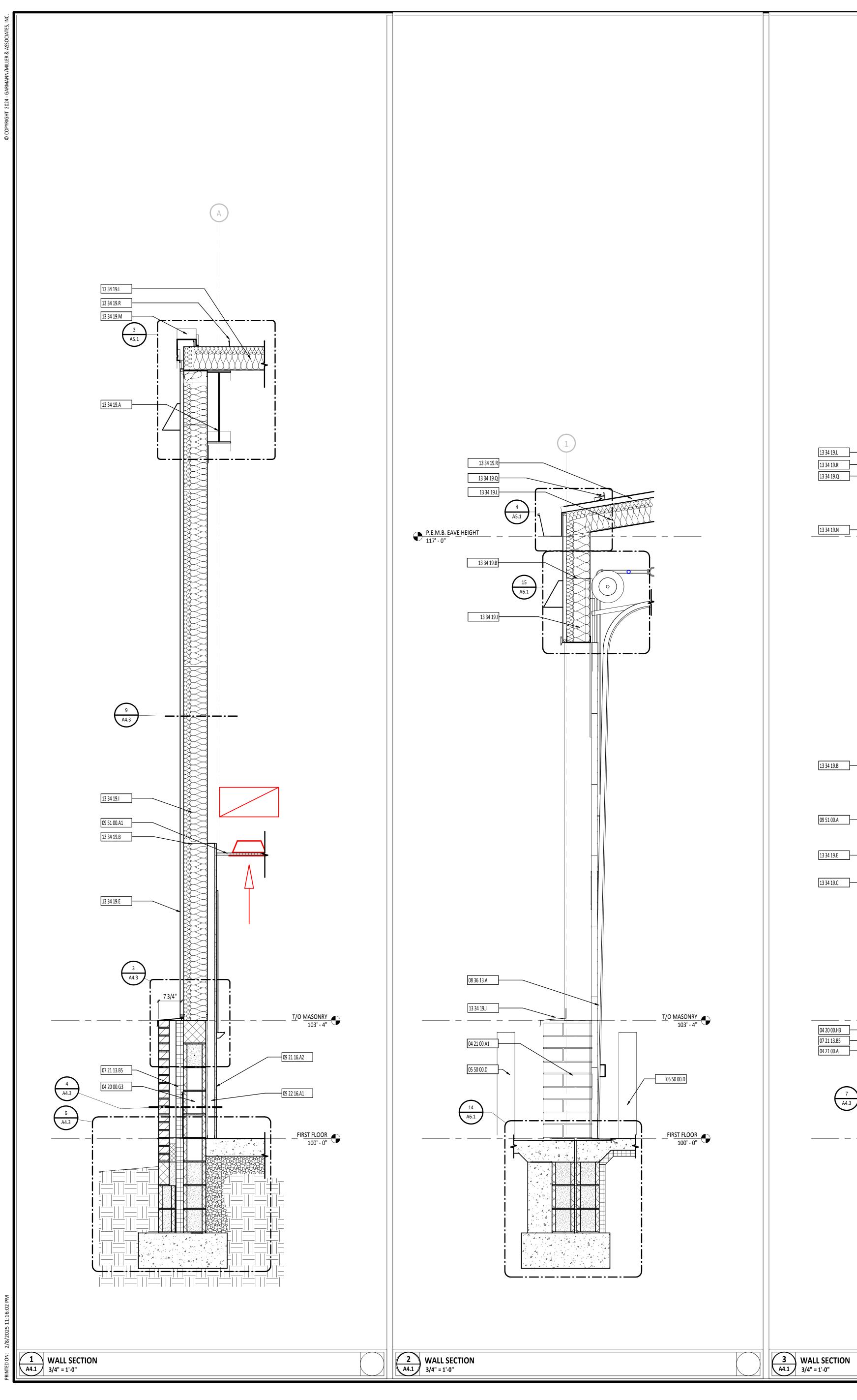


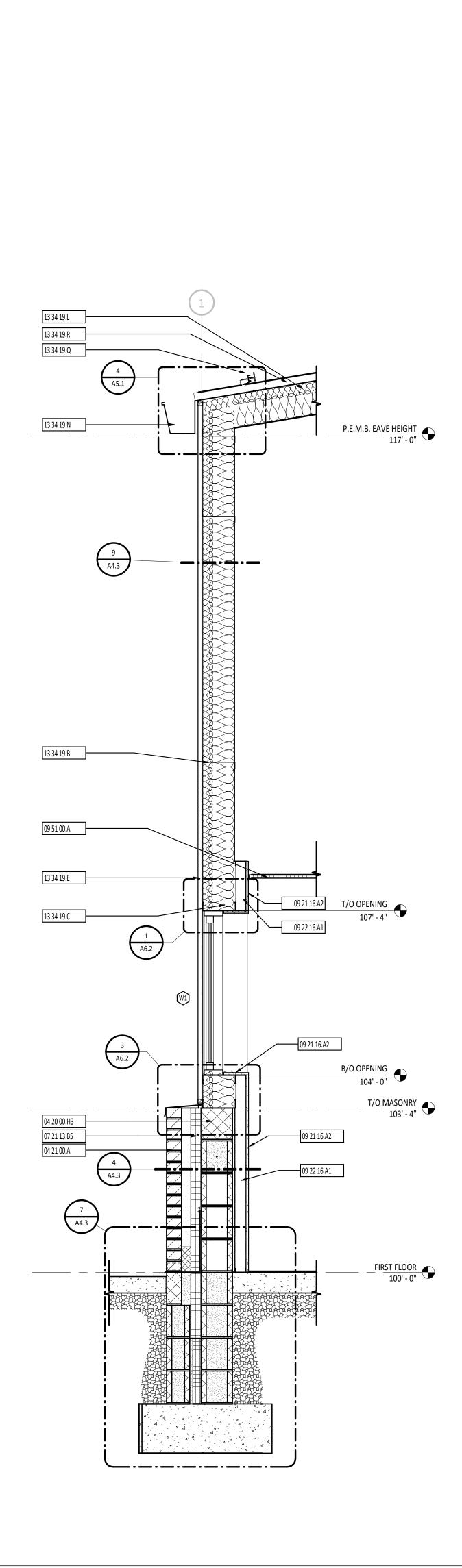
		FIRST FLOOR PLAN ROOM INDEX - OVERALL	
	ROOM NUMBER A101	ROOM NAME	
	A102 A103	OFFICE OFFICE	
	A104 A105	UNISEX RESTROOM UNISEX RESTROOM	
	A106 A107	MAINTENANCE BAY MECH/ELECTRICAL/AIR COMPRESSOR	
	A108	STORAGE	
	ROOM	FIRST FLOOR PLAN ROOM INDEX - ALTERNATE	
	NUMBER B109	ROOM NAME MAINTENANCE BAY	
	FLOOR PLAI	N SYMBOLS LEGEND	
		AED AUTOMATED EXTERNAL DEFIBRILLATOR DE XXXX DOOR DESIGNATION - REFERENCE DOOR/O FE FIRE EXTINGUISHER DESIGNATION - REFERE FEC FIRE EXTINGUISHER CABINET DESIGNATION SPECIFICATIONS (A101) ROOM DESIGNATION - REFERENCE ROOM I	PEN ENCI I - R
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	AREA	DIVISIONAL KEYNOTE DESIGNATION - REFER SCHEDULE AND SPECIFICATIONS FOR ADDIT KEYNOTE DESIGNATION SPECIFICATION SECTION CALLOUT DETAIL NUMBER SHEET NUMBER	
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		ADDITIONAL INFORMATION; SEE	R S (S
	FB =	ACOUSTICAL BATT INSULATION FIRE BARRIER WALL GROUT WALL FULL FIRE EXTINGUISHER	
	MARK FE-10	DESCRIPTION FIRE EXTINGUISHER - 10.0LB - CLASS A:B:C	
		AN SYMBOLS LEGEND ROOM DESIGNATION - REFERENCE ROOM X X X X X X X X X X X X X	1 INI
	# 05 50 00.D	KEYNOTE DESCRIPTION EXTERIOR GALVANIZED BOLLARD - PAINT - REFERENCE ARCH STRUCTURAL DRAWINGS.	ITE
	10 41 16.A 13 34 19.A 13 34 19.O 22 10 06.B 22 40 00.A	5/8" FIRE-RETARDANT PLYWOOD KNOX BOX - TOP TO BE MOUNTED AT 52" AFF. COORDINATE PRE-ENGINEERED METAL BUILDING SYSTEM PREFINISHED ALUMINUM DOWNSPOUT - PROVIDED BY P.E.N FLOOR DRAIN - REFERENCE PLUMBING DRAWINGS. PLUMBING FIXTURE - REFERENCE PLUMBING DRAWINGS.	M.B.
	22 40 00.B 22 40 00.C 22 40 00.D 33 46 00.A	DRINKING WATER COOLER - REFERENCE PLUMBING DRAWIN MOUNTING HEIGHTS. EMERGENCY EYEWASH - REFERENCE PLUMBING DRAWINGS. FLOOR SERVICE SINK - REFERENCE PLUMBING DRAWINGS. PVC DOWNSPOUT BOOT - BY SITE CONTRACTOR; PAINT	
	A ALL	GENERAL NOTES DIMENSIONS ARE MEASURED TO THE FACE OF MASONRY OF	TH
	B ALL DET	ID UNLESS NOTED OTHERWISE. . CMU CORNERS, HORIZONTAL OR VERTICAL, SHALL BE BULLN FAILED OTHERWISE. TALL TREATED WOOD BLOCKING IN WALLS AS REQUIRED TO :	
	EQI WI ⁻ REC	JIPMENT, ACCESSORIES, HANDRAILS, CASEWORK, ETC. COOR TH ALL APPROPRIATE CONTRACTORS, SUPPLIERS AND MANUF COMMENDATIONS.	RDIN
	F HIN AD.	ERENCE G1.0 FOR WALL TO DECK TERMINATION DETAILS. IGE SIDE OF DOOR JAMB AT INTERSECTING WALLS TO BE LOC. ACENT WALL UNLESS NOTED OTHERWISE - REFERENCE FLOO VALL TYPE IS NOT IDENTIFIED, WALL IS TO RUN FULL HEIGHT	r pi
	A TA = B REFE C ALL T D FOR E CON PRIO	ENLARGEMENT GENERAL NOTES TOILET ACCESSORIES. RENCE SPECIFICATION SECTION 10 28 00 FOR TOILET ACCESSO OILET ACCESSORIES SHALL BE SURFACE-MOUNTED UNLESS N TYPICAL MOUNTING HEIGHTS REFERENCE MOUNTING HEIGH TRACTOR TO COORDINATE THE SIZE(S) OF THE ACCESSORIES S R TO INSTALLATION FOR ACCURATE PLACEMENT LOCATIONS.	ioti t di Supi
	F FE/FI	EC = FIRE EXTINGUISHER AND OR CABINET - REFERENCE SCHE TS. TOILET ACCESSORY SCHEDULE	טטנ
)		DESCRIPTION 3 BAR - SURFACE MOUNT - VERTICAL - 18" LENGTH - 39" AFF	СС
	TA1.2 GRA	OTTOM OF THE BAR 3 BAR - SURFACE MOUNT - HORIZONTAL - 36" LENGTH - 36" TO TOP OF THE GRIPPING SURFACE	AN CC AN
	TA1.3 GRAN	3 BAR - SURFACE MOUNT - HORIZONTAL - 42" LENGTH - 36" TO TOP OF THE GRIPPING SURFACE	CC AN
		ROR - 18"W x 36"H ET PAPER DISPENSER - SURFACE MOUNT - 18" AFF TO	CC AN O\
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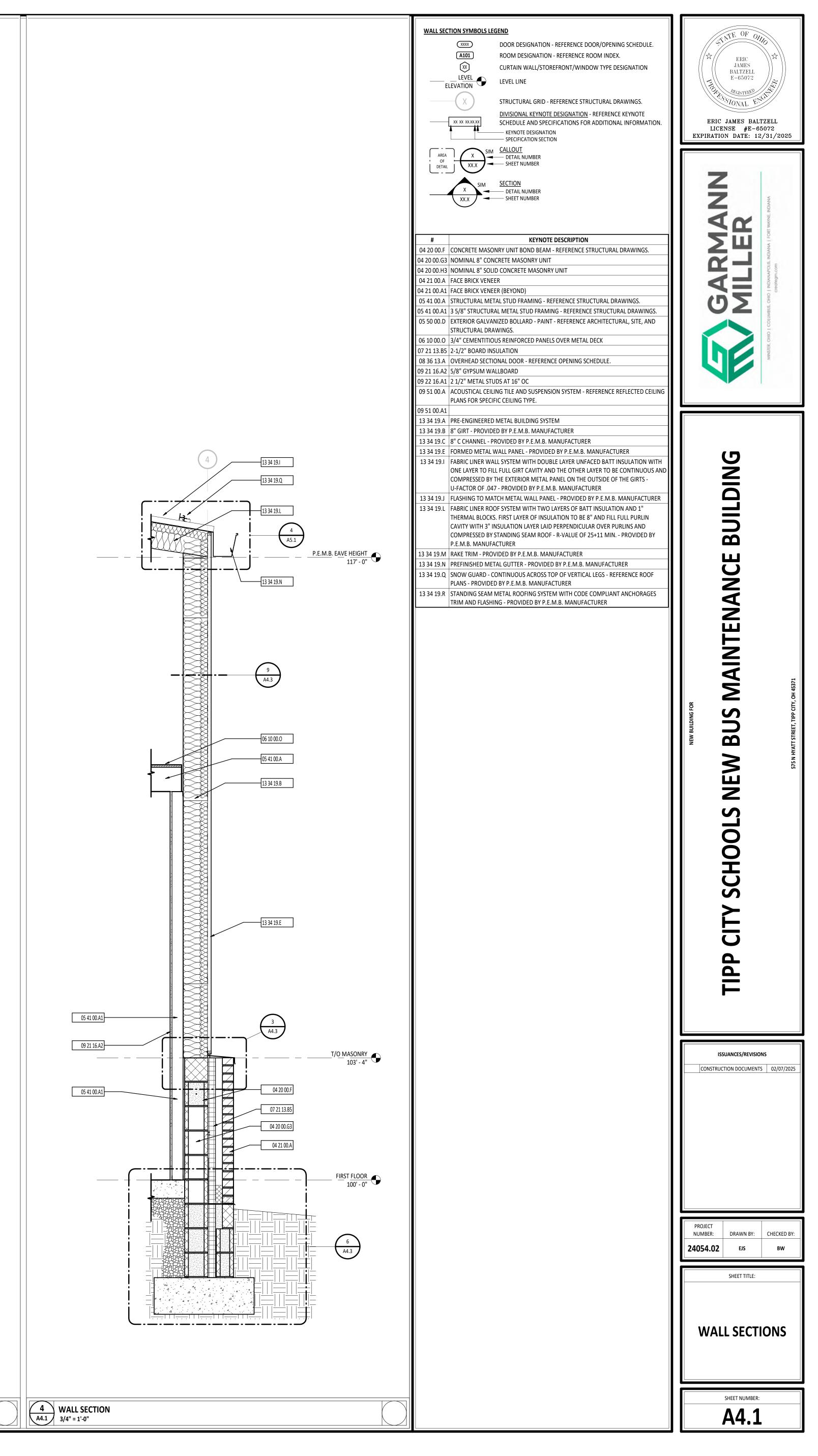


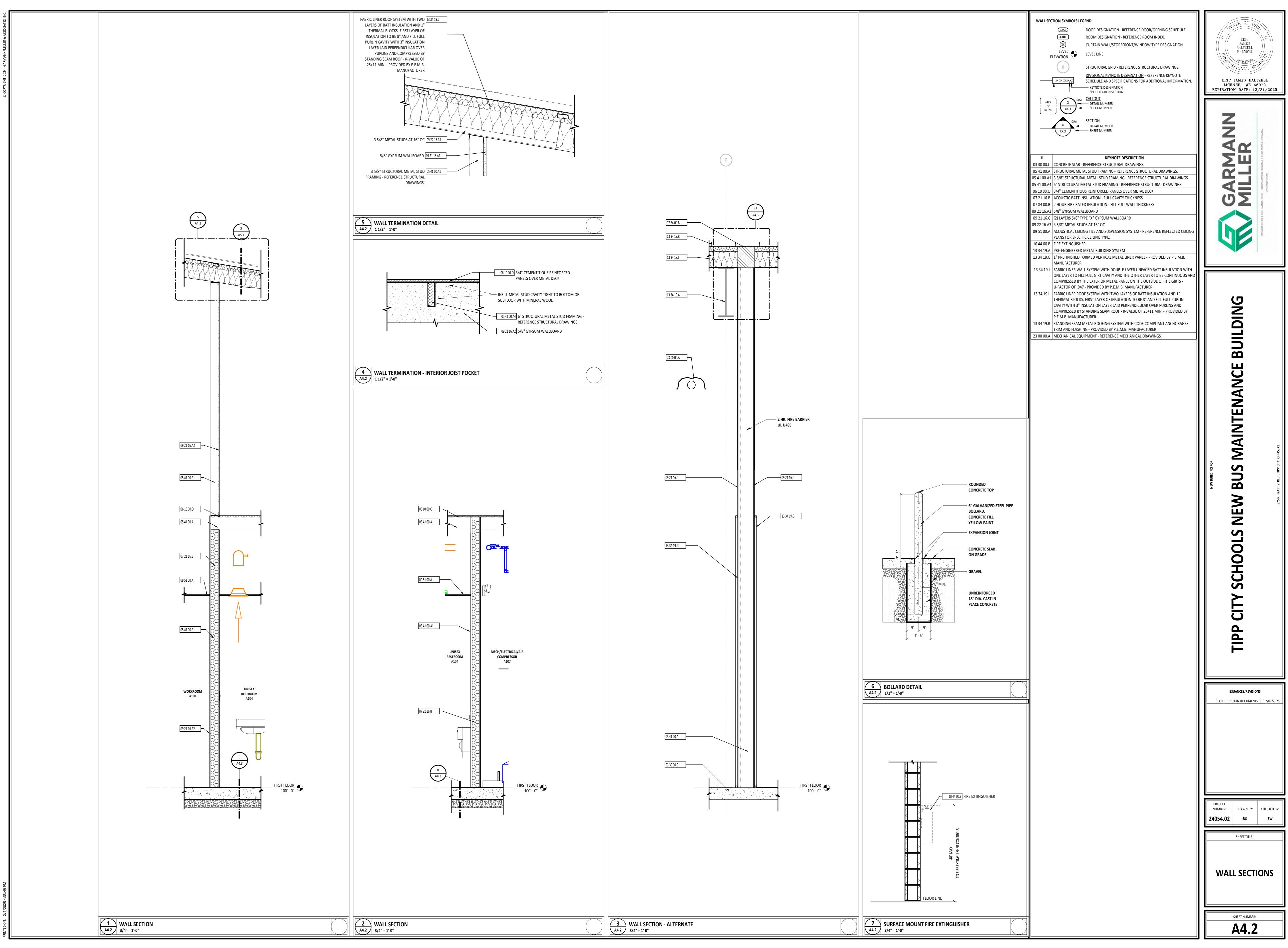


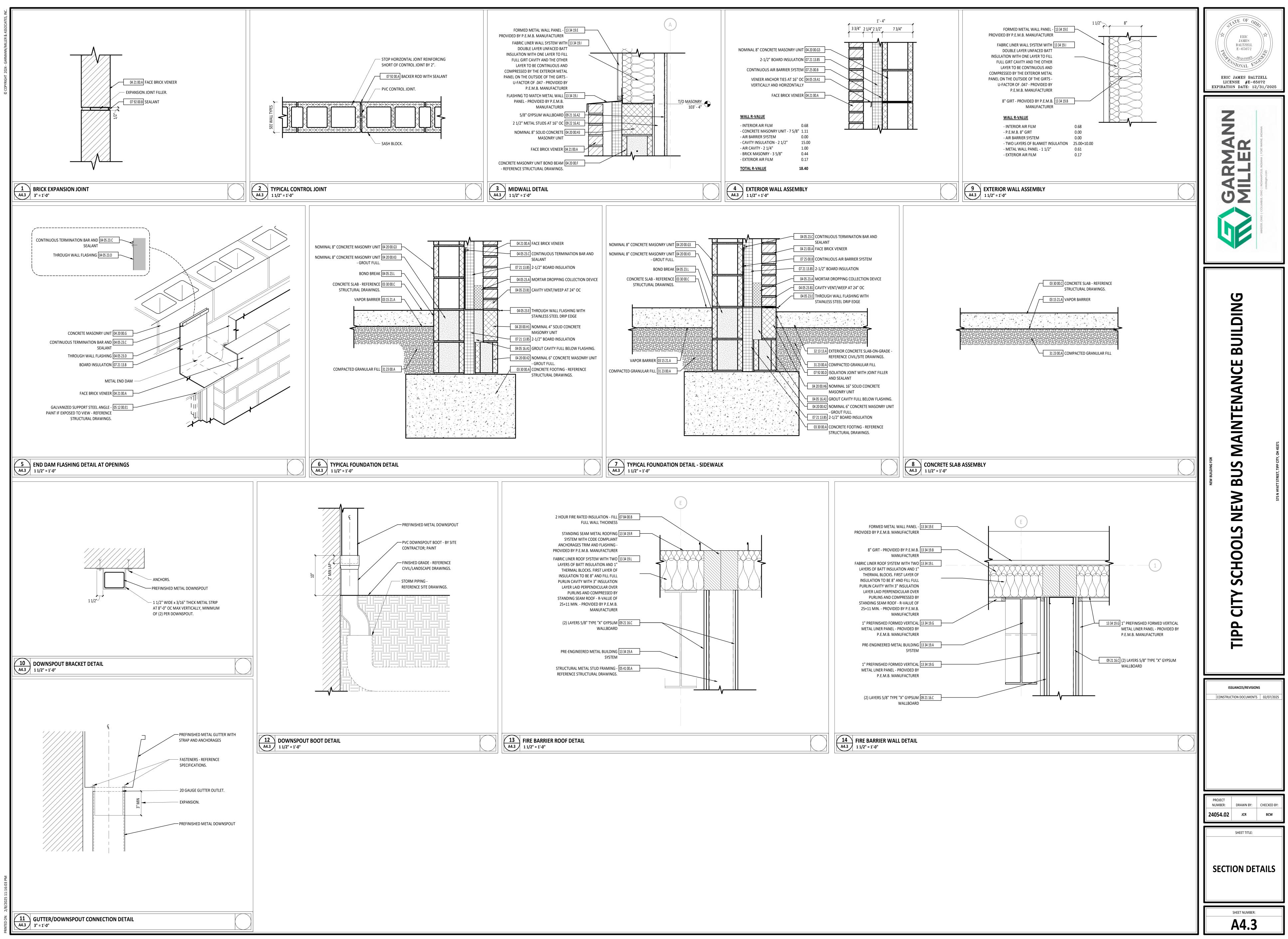


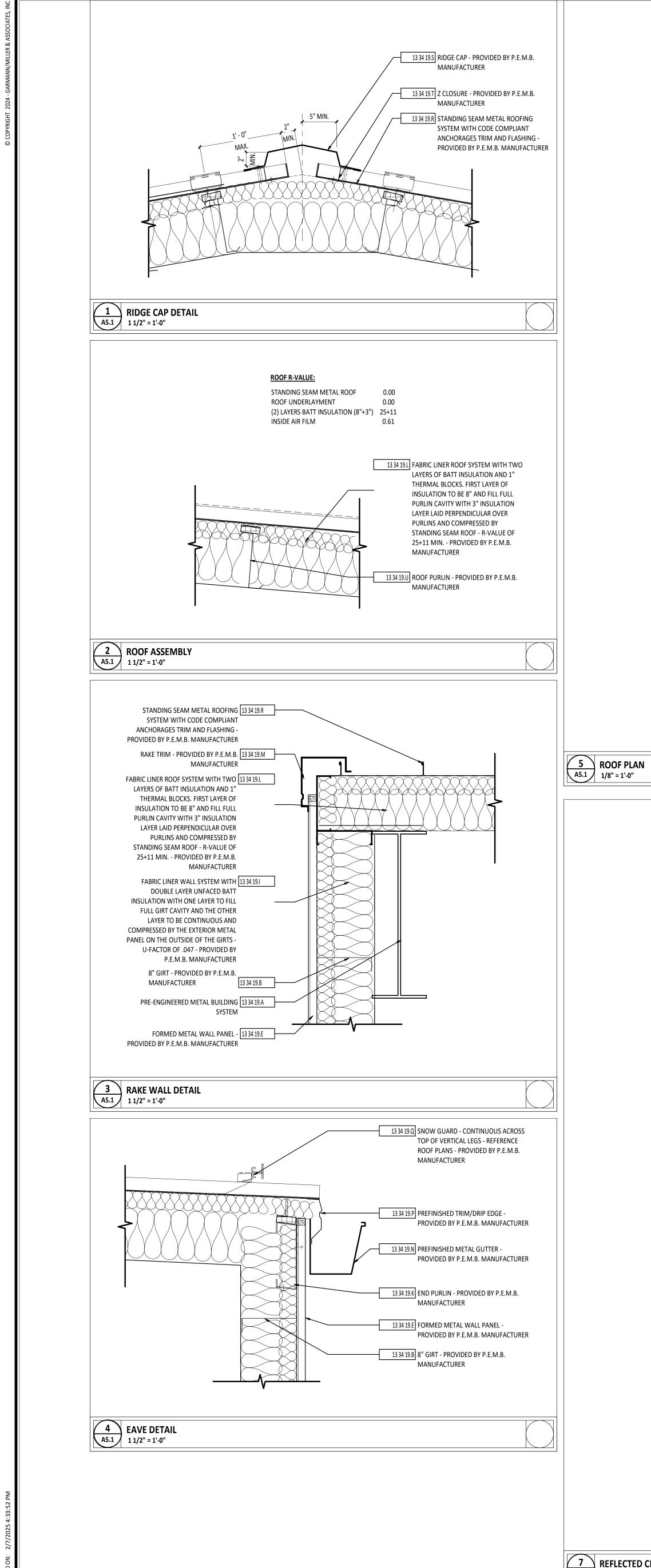


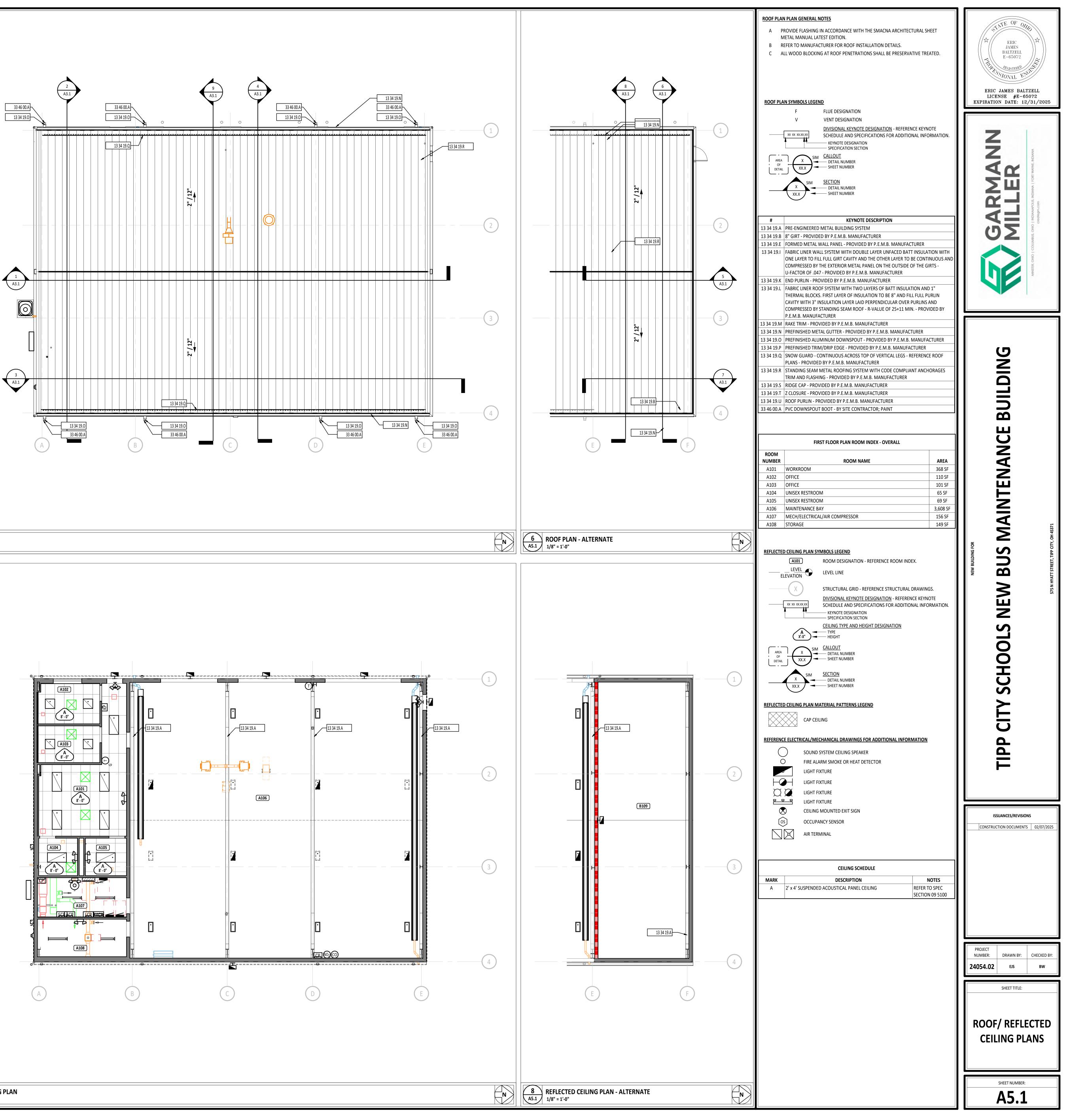


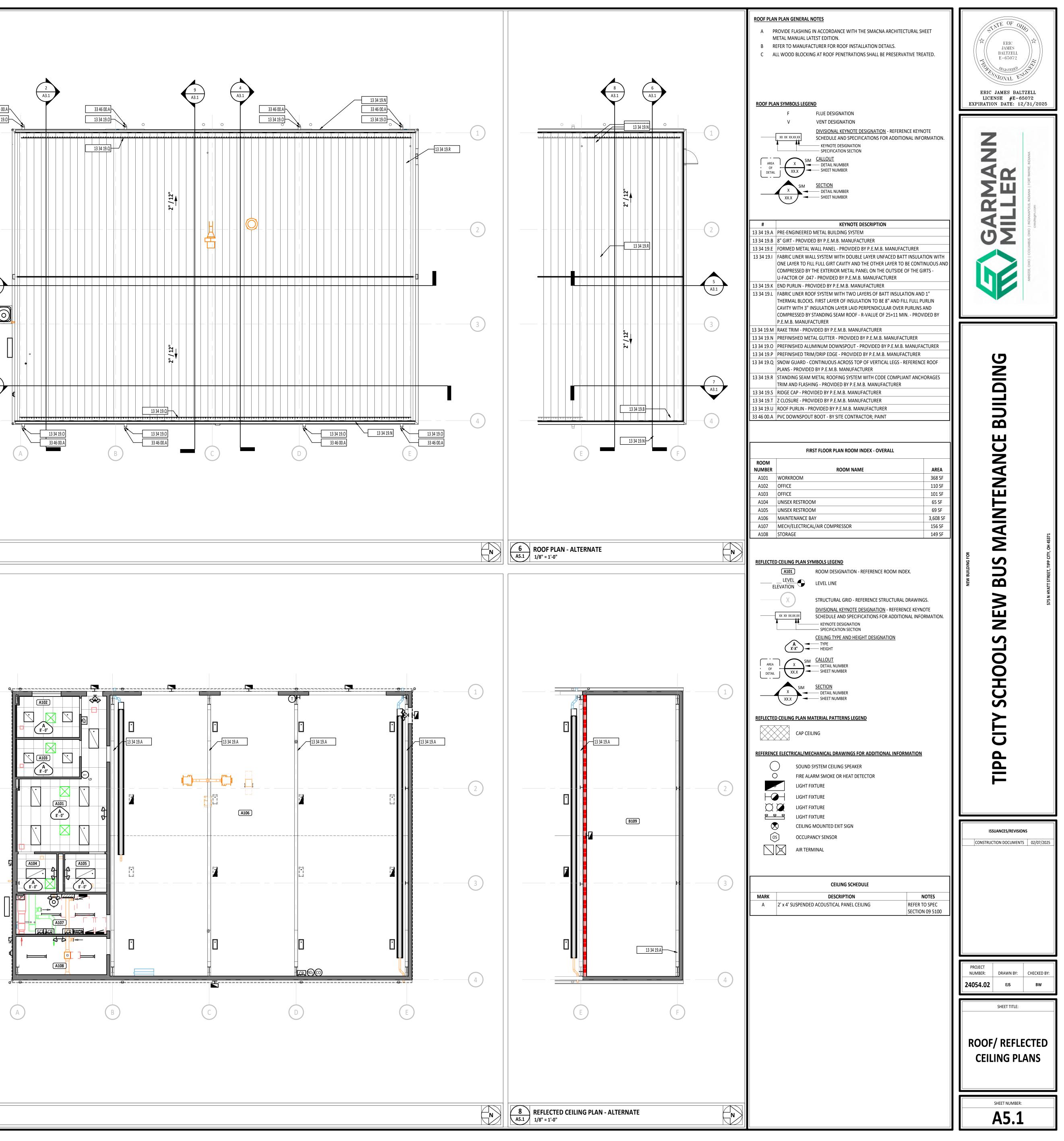


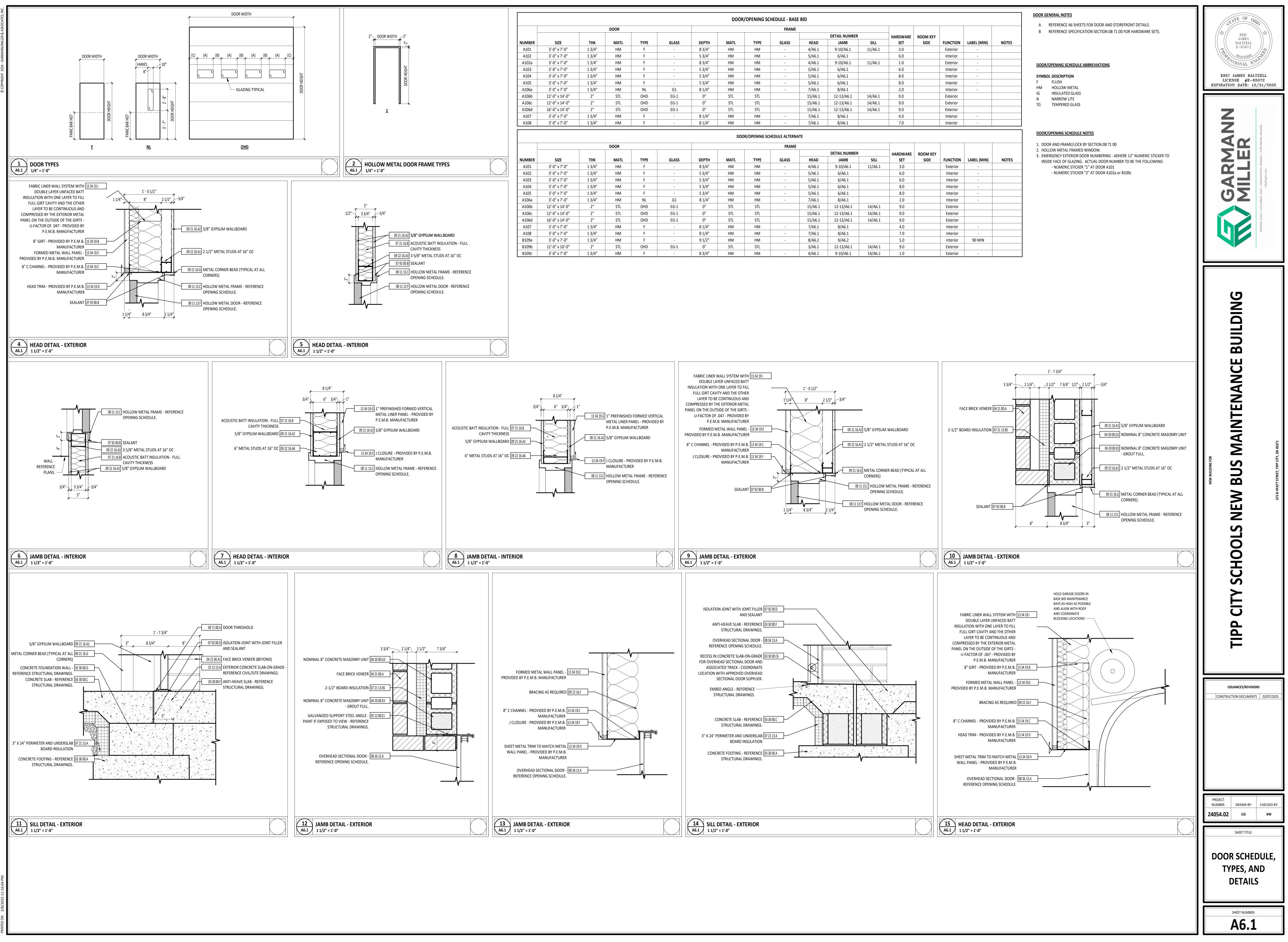










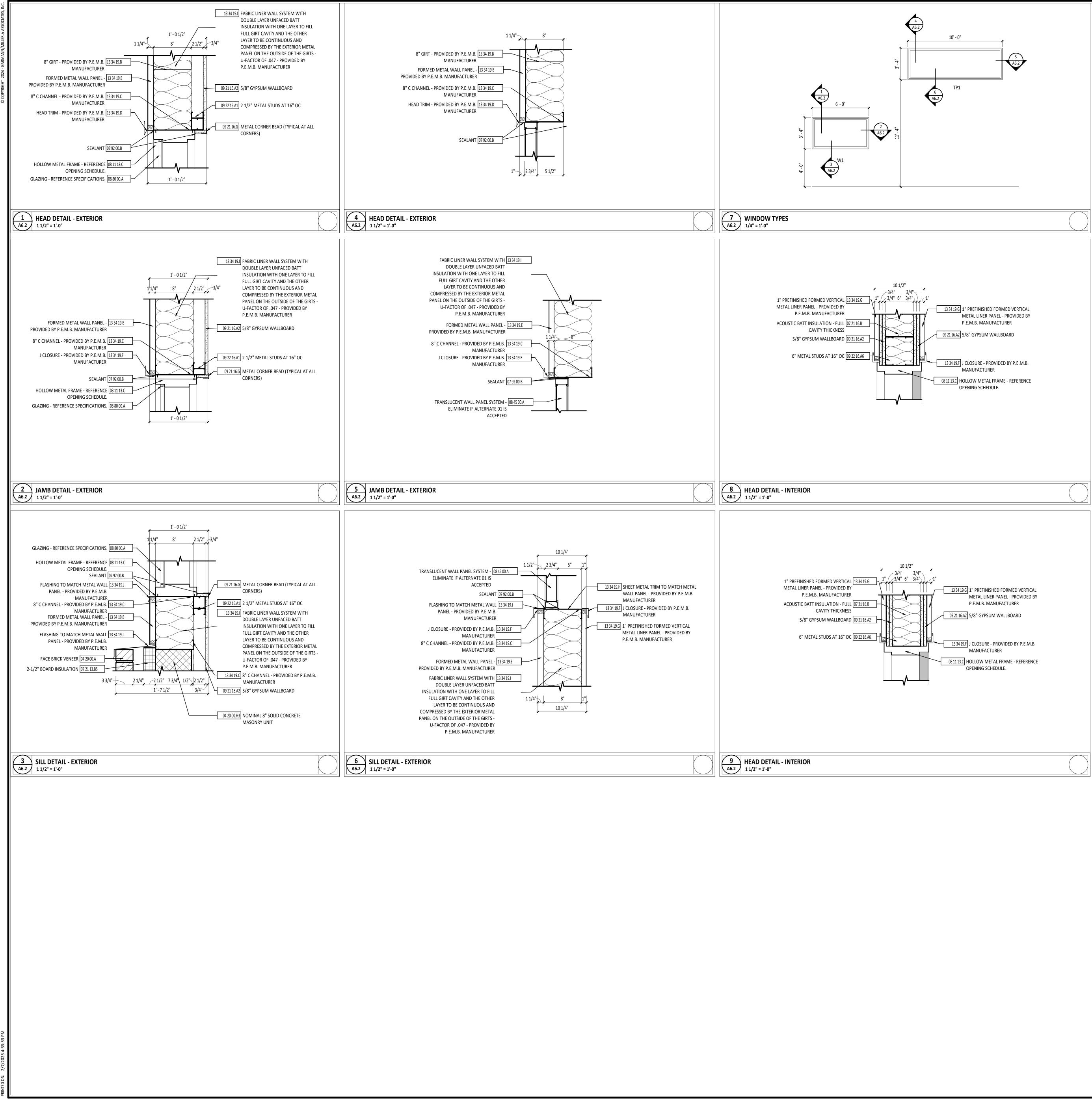


	FRAME								
			DETAIL NUMBER		HARDWARE	RDWARE ROOM KEY SET SIDE			
ТҮРЕ	GLASS	HEAD	JAMB	SILL	SET		FUNCTION	LABEL (MIN)	NOTES
НМ	-	4/A6.1	9-10/A6.1	11/A6.1	3.0		Exterior	-	
HM	-	5/A6.1	6/A6.1		6.0		Interior	-	
HM	-	4/A6.1	9-10/A6.1	11/A6.1	1.0		Exterior	-	
HM	-	5/A6.1	6/A6.1		6.0		Interior	-	
HM	-	5/A6.1	6/A6.1		8.0		Interior	-	
НМ	-	5/A6.1	6/A6.1		8.0		Interior	-	
НМ	-	7/A6.1	8/A6.1		2.0		Interior	-	
STL		15/A6.1	12-13/A6.1	14/A6.1	9.0		Exterior		
STL		15/A6.1	12-13/A6.1	14/A6.1	9.0		Exterior		
STL		15/A6.1	12-13/A6.1	14/A6.1	9.0		Exterior		
HM	-	7/A6.1	8/A6.1		4.0		Interior	-	
HM	-	7/A6.1	8/A6.1		7.0		Interior	-	

	FRAME								
			DETAIL NUMBER		HARDWARE	ROOM KEY			
ТҮРЕ	GLASS	HEAD	JAMB	SILL	SET	SIDE	FUNCTION	LABEL (MIN)	NOTES
НМ	-	4/A6.1	9-10/A6.1	11/A6.1	3.0		Exterior	-	
HM	-	5/A6.1	6/A6.1		6.0		Interior	-	
HM	-	5/A6.1	6/A6.1		6.0		Interior	-	
HM	-	5/A6.1	6/A6.1		8.0		Interior	-	
HM	-	5/A6.1	6/A6.1		8.0		Interior	-	
HM	-	7/A6.1	8/A6.1		2.0		Interior	-	
STL		15/A6.1	12-13/A6.1	14/A6.1	9.0		Exterior		
STL		15/A6.1	12-13/A6.1	14/A6.1	9.0		Exterior		
STL		15/A6.1	12-13/A6.1	14/A6.1	9.0		Exterior		
HM	-	7/A6.1	8/A6.1		4.0		Interior	-	
HM	-	7/A6.1	8/A6.1		7.0		Interior	-	
HM	-	8/A6.2	9/A6.2		5.0		Interior	90 MIN	
STL		3/A6.1	12-13/A6.1	14/A6.1	9.0		Exterior		
НМ	-	4/A6.1	9-10/A6.1	14/A6.1	1.0		Exterior	-	

SYMBOL	DESCRIPTION
г	

НМ	HOLLOW METAL



DOOR GENERAL NOTES

A REFERENCE A6 SHEETS FOR DOOR AND STOREFRONT DETAILS. B REFERENCE SPECIFICATION SECTION 08 71 00 FOR HARDWARE SETS.

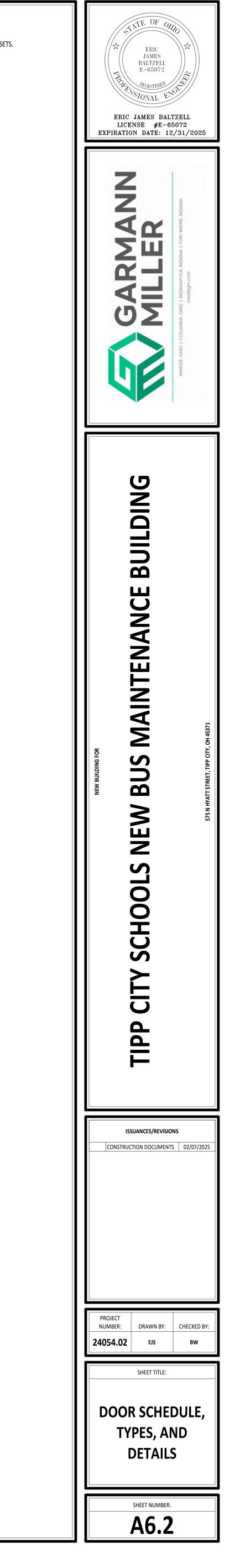
DOOR/OPENING SCHEDULE ABBREVIATIONS

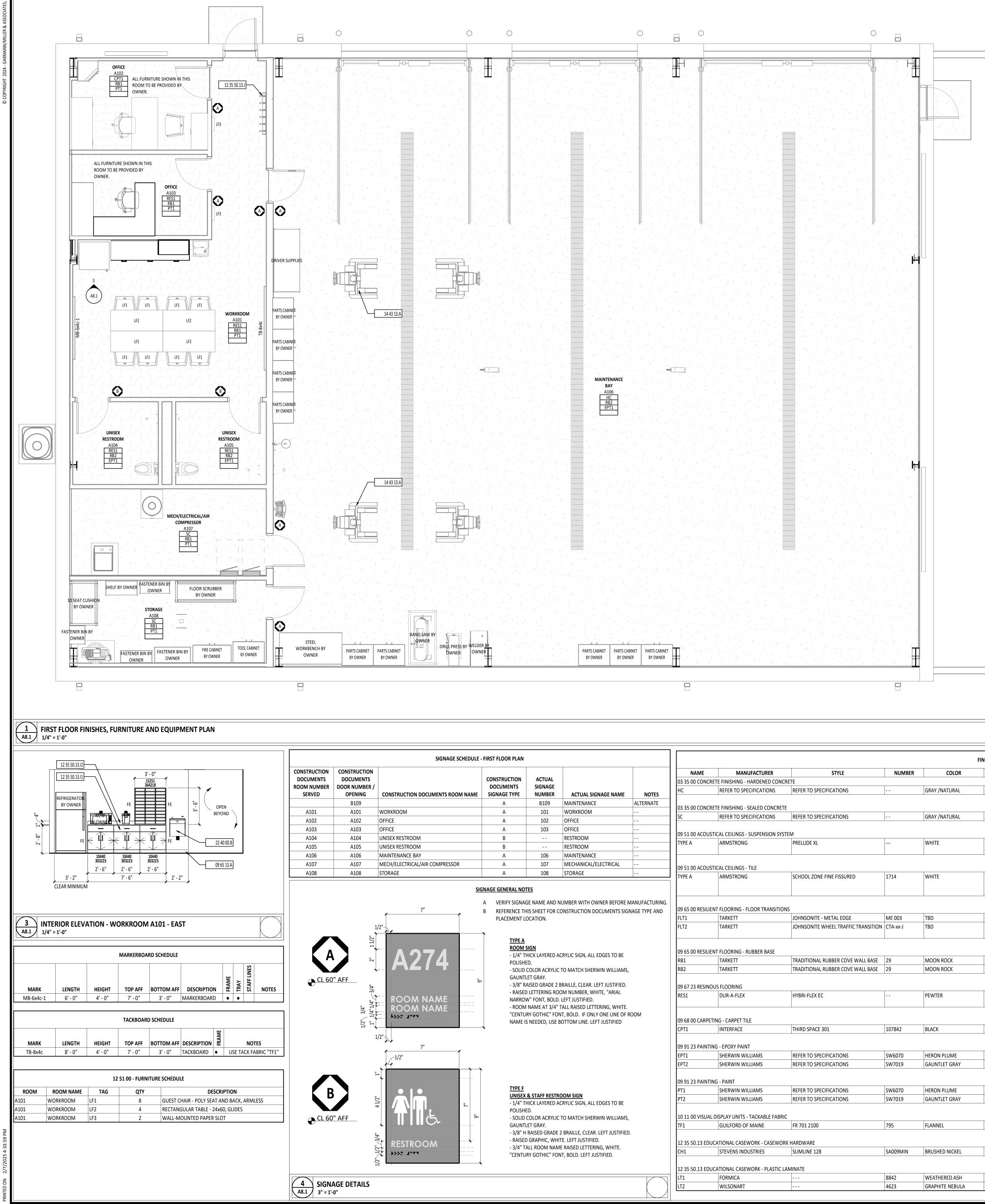
SYMBOL DESCRIPTION F FLUSH

HM HOLLOW METAL IG

NARROW LITE Ν TG TEMPERED GLASS

INSULATED GLASS

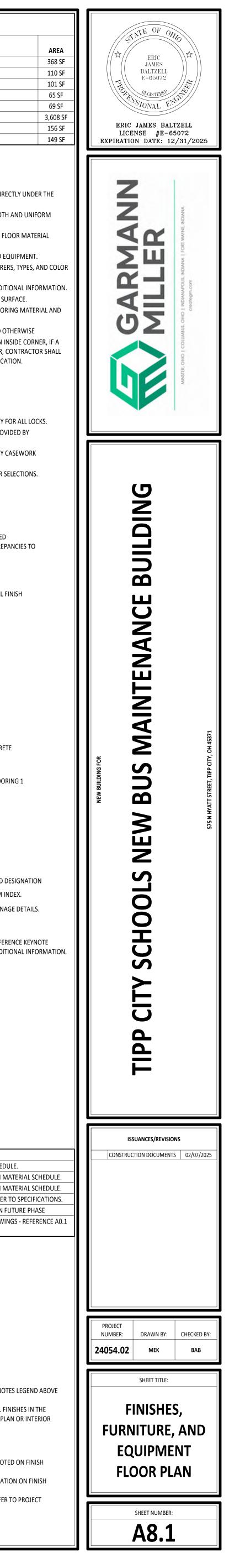




1 NAME	CONSTRUCTION DOCUMENTS SIGNAGE TYPE	ACTUAL SIGNAGE NUMBER	ACTUAL SIGNAGE NAME	NOTES
	А	B109	MAINTENANCE	ALTERNATE
	А	101	WORKROOM	
	А	102	OFFICE	
	А	103	OFFICE	
	В		RESTROOM	
	В		RESTROOM	
	А	106	MAINTENANCE	
	А	107	MECHANICAL/ELECTRICAL	
	А	108	STORAGE	

					FINISH
NAME	MANUFACTURER	STYLE	NUMBER	COLOR	
	ETE FINISHING - HARDENED CONCI		1		
НС	REFER TO SPECIFICATIONS	REFER TO SPECIFICATIONS		GRAY /NATURAL	
	ETE FINISHING - SEALED CONCRET	-			
SC	REFER TO SPECIFICATIONS	REFER TO SPECIFICATIONS		GRAY /NATURAL	
09 51 00 ACOUS	TICAL CEILINGS - SUSPENSION SYST	TEM			
TYPE A	ARMSTRONG	PRELUDE XL		WHITE	15/ FAC
	TICAL CEILINGS - TILE		1		
TYPE A	ARMSTRONG	SCHOOL ZONE FINE FISSURED	1714	WHITE	2'X
	NT FLOORING - FLOOR TRANSITION				
FLT1	TARKETT	JOHNSONITE - METAL EDGE	ME 003	TBD	1/4
FLT2	TARKETT	JOHNSONITE WHEEL TRAFFIC TRANSITION	CTA-xx-J	TBD	1/4 SUE
					1.0.0
09 65 00 RESILIE	NT FLOORING - RUBBER BASE				
RB1	TARKETT	TRADITIONAL RUBBER COVE WALL BASE	29	MOON ROCK	4"⊦
RB2	TARKETT	TRADITIONAL RUBBER COVE WALL BASE	29	MOON ROCK	6"H
09 67 23 RESINO					1/4
RES1	DUR-A-FLEX	HYBRI-FLEX EC		PEWTER	1/4
	TING - CARPET TILE				
CPT1	INTERFACE	THIRD SPACE 301	107842	BLACK	50
			107042	DERCK	50
09 91 23 PAINTII	NG - EPOXY PAINT				
EPT1	SHERWIN WILLIAMS	REFER TO SPECIFICATIONS	SW6070	HERON PLUME	
EPT2	SHERWIN WILLIAMS	REFER TO SPECIFICATIONS	SW7019	GAUNTLET GRAY	
09 91 23 PAINTI			04/070		
PT1	SHERWIN WILLIAMS	REFER TO SPECIFICATIONS	SW6070	HERON PLUME	
PT2	SHERWIN WILLIAMS	REFER TO SPECIFICATIONS	SW7019	GAUNTLET GRAY	
10 11 00 VISUAL	. DISPLAY UNITS - TACKABLE FABRIO	2			
TF1	GUILFORD OF MAINE	FR 701 2100	795	FLANNEL	
	ICATIONAL CASEWORK - CASEWOR	KHARDWARE	1		
CH1	STEVENS INDUSTRIES	SLIMLINE 128	SA009MIN	BRUSHED NICKEL	
	ICATIONAL CASEWORK - PLASTIC L/ FORMICA		8842	WEATHERED ASH	
LT1	FURIVILLA				

					FIRST FLOOR PLAN ROOM INDEX - OVERALL
			0	ROOM NUMBER A101	ROOM NAME
		i a jing set sit sig againg ing ing ang ang ang ang ang ang ang ang ang a		A102 A103 A104	OFFICE OFFICE UNISEX RESTROOM
				A105 A106	UNISEX RESTROOM MAINTENANCE BAY
				A107 A108	MECH/ELECTRICAL/AIR COMPRESSOR STORAGE
		MINTENANCE BAY B109 HC B20 HC B19		A FL C F F D FL E RE SE F RE G AL H RE C J EQUIPMEN A K B R SI C A M B R SI C A M B R SI C A C D R TYPICAL * UNLES THROUG THE ARCI CASEWO EXPOSED EXP	S NOTED OTHERWISE, THESE FINISH SELECTIONS SHALL BE USED HOUT THE PROJECT. CONTRACTOR SHOULD BRING ANY DISCREF HITECT'S ATTENTION IMMEDIATELY. RK HARDWARE CH1 HVAC ELEMENTS (CEILING) MATCH PT1 HVAC ELEMENTS (WALLS) MATCH ADJACENT WALL I STRUCTURE (CEILING) MATCH PT1 HVAC ELEMENTS (WALLS) MATCH PT1 HVAC ELEMENTS (WALLS) MATCH PT1 HITAL DECK MATCH PT1 HITAL DECK MATCH PT1 HITAL DECK MATCH PT1 HITAL DOOR FRAMES PT2 METAL DOOR FRAMES PT2 METAL DOORS PT2 METAL ALING PT2 CASEWORK (HORIZONTAL) LT2 E CASEWORK (HORIZONTAL) LT2 E CASEWORK (VERTICAL) LT1 PLATES AND OUTLET COVERS WHITE RD FABRIC TF1 HARDENED CONCRETE $1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1$
	FIRST FLOOR EQUIPMENT PLAN - ALTE	ERNATE		E	LEVEL LINE LEVATION DIVISIONAL KEYNOTE DESIGNATION - REFEI
MATERIAL SC				AREA	KEYNOTE DESIGNATION SPECIFICATION SECTION SIM <u>CALLOUT</u> DETAIL NUMBER
SIZE	COMMENTS	EQUAL #1	EQUAL #2		
		REFER TO SPECIFICATIONS	REFER TO SPECIFICATIONS REFER TO SPECIFICATIONS)	X XX.X X DETAIL NUMBER X SIM SECTION
16" WIDE E	DOUBLE WEB CONSTRUCTION, CLASS 1 ZINC COATING, 8 GAUGE STEEL	USG	ROCKFON		X XX.X XX.X XX.X XX.X XX.X XX.X XX.X X
I' X 3/4"	SQUARE EDGE70 MINIMUM NRC, SAG RESISTANT, ANTIOMICROBIAL. USE SUSPENSION TYPE A. CORRESPONDS WITH CEILING TYPE "A" ON SHEET A5.1	USG	ROCKFON	# 09 65 13./	
' TO 3/8" ' TO FLOOR	TO BE USED AT TRANSITION BETWEEN CPT AND RES FLOORING TO BE USED AT TRANSITIONS BETWEEN RES AND CONCRETE FLOORING				A ROTARY MOBILE COLUMN LIFT - MCHW18 - BY OWNER IN I
"" THICK	SELECTION TO BE MADE FROM MANUFACTURER'S STANDARD	ROPPE - PINNACLE ROPPE - PINNACLE KEY RESIN COMPANY	MANNINGTON MANNINGTON STONHARD		
	MIXES			<u>FINISH TAC</u>	A1XX ROOM NUMBER
m X 50 cm	INSTALL IN MONOLITHIC INSTALLATION PATTERN	TARKETT REFER TO SPECIFICATIONS	SHAW REFER TO SPECIFICATIONS		FLOOR FINISH
		REFER TO SPECIFICATIONS	REFER TO SPECIFICATIONS		IISH REMARK*
		REFER TO SPECIFICATIONS REFER TO SPECIFICATIONS	REFER TO SPECIFICATIONS REFER TO SPECIFICATIONS	ROOM MA ELEVATION	5 NOTED IN FINISH TAG SHOULD BE CONSIDERED THE OVERALL F RKED UNLESS NOTED OTHERWISE WITH KEYNOTES ON FINISH PL IS. FINISH REMARKS
				1. MULTIP PLANS A	LE WALL FINISHES IN THIS ROOM. REFER TO INFORMATION NOT
	BASE AND WALL CABINET HARDWARE	REFER TO SPECIFICATIONS	REFER TO SPECIFICATIONS	PLANS. 3. ALL FIN	LE FLOOR FINISHES IN THIS ROOM. REFER TO NOTED INFORMAT SHES IN THIS ROOM ARE TO BE INCLUDED IN ALTERNATE. REFER
	VERTICAL LAMINATE HORIZONTAL LAMINATE	WILSONART FORMICA	PIONITE PIONITE		



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THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE CONSTRUCTION IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE CONSTRUCTION PROCEDURE AND SEQUENCE AND TO ENSURE 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 IS TO REMAIN THE CONTRACTOR'S PROPERTY AFTER COMPLETION OF THE PROJECT.	ARCHITECTURAL, MECHANICAL AND/OR ON STRUCTURAL DRAWINGS IS SHOWN FOR BIDDIN IS TO RECONCILE EXACT SIZE AND LOCATION WITH MECHANICAL AND OTHER REQUIREMEN WORK. C. PROVIDE HEAVY PLATE WASHERS AT ALL ANCHOR RODS. D. FINISH ENDS OF ALL COLUMNS, STIFFENERS AND ALL OTHER MEMBERS IN DIRECT BEARING
IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION. MECHANICAL EQUIPMENT LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO MECHANICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR IS TO OBTAIN APPROVAL OF MECHANICAL AND OTHER TRADES BEFORE PROCEEDING	 E. SEE ARCHITECTURAL SECTIONS AND DETAILS FOR ALL MISCELLANEOUS STRUCTURAL STE THE STRUCTURAL DRAWINGS. 7. FIELD QUALITY CONTROL: A. INSPECTION AGENCY IS TO PERFORM INSPECTION OF BOLTED CONNECTIONS PER THE RECE FOR STRUCTURAL JOINTS.
WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN MECHANICAL REQUIREMENTS TO BE BORNE BY MECHANICAL CONTRACTOR. DO NOT SCALE THE DRAWINGS WHERE DIMENSIONS ARE NOT SPECIFICALLY GIVEN. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS NOT SHOWN. COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS.	METAL DECK 1. MATERIALS:
ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE NOT INTENDED TO AUGMENT, NOR SUPERSEDE THOSE SHOWN ON THE ARCHITECTURAL DRAWINGS. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY THE ARCHITECT IMMEDIATELY WHERE	 A. GALVANIZED SHEET STEEL: ASTM A653 B. FLOOR DECK: 9/16" DEEP, CONFORM, GALVANIZED. 2. SPECIFICATIONS:
CONFLICTS EXIST WITHIN THE DRAWINGS OR BETWEEN THE DRAWINGS AND FIELD CONDITIONS. THROUGHOUT THESE PLANS, THE TERM "PROVIDE" IS DEFINED AS "SUPPLY AND INSTALL". SHOP DRAWINGS ARE TO BE SUBMITTED BY COMPLETE ERECTION PHASE OR SEQUENCE. LIMITS OF EACH INDIVIDUAL ERECTION	 A. WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS. DESIGN, FABRIC GOVERNED BY THE LATEST REVISIONS OF: AISI "SPECIFICATION OF THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBER STRUCTURAL WELDING CODE, AWS D1.3 OF THE AMERICAN WELDING SOCIETY. SDI "DESIGN MANUAL FOR FLOOR DECK AND ROOF DECKS".
PHASE OR SEQUENCE ARE TO BE CLEARLY INDICATED ON THE PLANS. INCOMPLETE OR PIECEMEAL SHOP DRAWINGS WILL BE RETURNED PRIOR TO REVIEW. RESUBMITTALS ARE TO HAVE REVISIONS CLEARLY MARKED OR IDENTIFIED. THE CONTRACTOR SHALL REVIEW AND ACCEPT FULL RESPONSIBILITY FOR DIMENSIONAL CORRECTNESS. ALL SHOP DRAWINGS MUST BEAR THE APPROVAL STAMP OF THE CONTRACTOR PRIOR TO REVIEW BY THE ARCHITECT OR ENGINEER.	 CONNECTIONS: A. DECK TO COLD-FORMED FRAMING: #12 SCREWS. B. SIDE LAP FASTENING: #10 SCREWS.
SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THE GENERAL STRUCTURAL NOTES, THE SPECIFICATIONS OR WITH EACH OTHER, THE STRICTEST PROVISION WILL GOVERN. CODE INFORMATION	 FINISH: A. GALVANIZED: CONFORM TO ASTM A653, G60. 5. MISCELLANEOUS:
- GOVERNING CODE: 2024 OHIO BUILDING CODE - BUILDING RISK CATEGORY: CATEGORY II LOADING TYPE: UNIFORM (PSF) CONCENTRATED (LB)	 A. UNITS ARE TO BE CONTINUOUS OVER AT LEAST THREE SPANS. WHERE FEWER THAN THRE BE INCREASED AS REQUIRED TO OBTAIN THE SAME DESIGN STRENGTH AS THE THREE-SPA BE LOCATED OVER SUPPORTS. B. FIELD CUTTING TO BE PERFORMED WITH A SAW.
FLOOR LIVE LOADS (WITH ALLOWABLE REDUCTIONS WHERE APPLICABLE): - STORAGE (LIGHT) 125 PSF	COLD FORMED METAL FRAMING 1. MATERIALS: A DECEMBER METAL OTHER AND JOINTO CHONNEON THE CONTRACT DOCUMENTS ADD DE
ROOF RAIN LOADSPRIMARYSECONDARY- RAIN INTENSITY (i)2.8 IN/HR1.5 IN/HR	 A. COLD-FORMED METAL STUDS AND JOISTS SHOWN ON THE CONTRACT DOCUMENTS ARE DE "WIDTH", AND "THICKNESS" AS FOLLOWS: 1. DEPTH: 362 (3-5/8"), 600 (6"), 800 (8"), ETC. 2. SHAPE: S (C-SHAPE), T (TRACK), U (CHANNEL) 3. WIDTH: 125 (1-1/4"), 162 (1-5/8"), 200 (2"), ETC.
SNOW LOADS: - GROUND SNOW LOAD (Pg) 20 PSF - FLAT ROOF SNOW LOAD (Pf) 20 PSF - SNOW EXPOSURE FACTOR (Ce) 1.0 - SNOW LOAD IMPORTANCE FACTOR (Is) 1.0	 THICKNESS: -43 (18 GA.), -54 (16 GA.), -68 (14 GA.), -97 (12 GA.) EXAMPLE: 600S162-54 = 6" C-SHAPE, 1 5/8" FLANGE, 16 GA. ALL 18 GA AND LIGHTER STUDS TO BE 33 KSI MATERIAL; ALL 16 GA AND HEAVIER STUDS TO ALL TRACKS AND ACCESSORIES: FY = 33 KSI MINIMUM.
- THERMAL FACTOR (Ct) 1.0 - THERMAL FACTOR (Ct) 1.0 <u>WIND LOADS:</u> - BASIC WIND SPEED (V) 107 MPH	 SPECIFICATIONS: A. WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS. DESIGN, FABRIG GOVERNED BY LATEST REVISIONS OF:
- BASIC ALLOWABLE WIND SPEED (V asd) 83 MPH - SITE EXPOSURE CATEGORY C - INTERNAL PRESSURE COEFFICIENT +/- 0.18	AISI "SPECIFICATION OF THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBEF STRUCTURAL WELDING CODE, AWS D1.3 OF THE AMERICAN WELDING SOCIETY. SUBMITTALS: A. SUBMIT MANUFACTURER'S STANDARD PRODUCT DATA AND INSTALLATION INSTRUCTIONS
SEISMIC LOADS: - SEISMIC IMPORTANCE FACTOR (Ie) 1.0 - MAPPED SPECTRAL RESPONSE ACCELERATION (Ss) 0.177 - MAPPED SPECTRAL RESPONSE ACCELERATION (S1) 0.072 SEISMIC CLARE D	METAL FRAMING AND ACCESSORY REQUIRED. 4. CONNECTIONS: A. FIELD CONNECTIONS MAY BE EITHER WELDED OR SCREWED, EXCEPT AS SPECIFICALLY DE B. WELD SIZE TO BE 1/8" WITH AWS TYPE 6013 OR 7014 ROD.
SEISMIC SITE CLASS D D DESIGN SPECTRAL RESPONSE ACCELERATION (Sds) D.118 DESIGN SPECTRAL RESPONSE ACCELERATION (Sd1) SEISMIC DESIGN CATEGORY A RESPONSE MODIFICATION COEFFICIENT (R) 3.0	 C. EXCEPT AS NOTED OTHERWISE, MECHANICAL FASTENERS TO BE SELF TAPPING #10-16 SCF 5. FINISH: A. ALL MATERIAL TO BE GALVANIZED COATED IN ACCORDANCE WITH ASTM A525 G-60.
- SEISMIC RESPONSE COEFFICIENT (Cs) - SEISMIC DESIGN BASE SHEAR (V) - ANALYSIS PROCEDURE - BASIC SEISMIC FORCE-RESISTING SYSTEM: STEEL SYSTEMS NOT SPECIFICALLY	 B. TOUCH-UP FIELD WELDS WITH ZINC RICH PAINT. 6. MISCELLANEOUS: A. ALL FIELD CUTTING TO BE PERFORMED WITH A SAW. B. TRACKS TO BE SECURELY ANCHORED TO SUPPORTING STRUCTURE WITH WELD OR SCREV
SPECIAL LOADS INTERIOR WALLS & PARTITIONS STORE SPECIAL LOADS SPECIAL LOADS	 C. PROVIDE HORIZONTAL BRIDGING AT 6'-0" O.C. MAX. FOR ALL STUD WALLS UNLESS NOTED C REQUIRED FOR PORTIONS OF INTERIOR NON-LOADBEARING STUD WALLS WHERE BOTH SIE D. JOISTS TO BE LOCATED DIRECTLY OVER BEARING WALL STUDS UNLESS A LOAD DISTRIBUT TOP TRACK.
GEOTECHNICAL: - GEOTECHNICAL ENGINEER: - REFERENCE REPORT I.D. OR NUMBER: - REFERENCE REPORT DATE: - REFERENCE REPORT DATE: - OCTOPER 1, 2024	 E. BEARING WALL STUDS ARE TO BE LOCATED DIRECTLY BELOW JOIST BEARING UNLESS A LO PROVIDED AT THE TOP TRACK. F. END BLOCKING OR CONTINUOUS TRACK IS TO BE PROVIDED WHERE JOIST ENDS ARE NOT ROTATION. G. WEB PUNCH-OUTS FOR BEAMS, JOISTS, AND RAFTERS ARE TO BE LOCATED A MINIMUM OF
- REFERENCE REPORT DATE: OCTOBER 1, 2024 - ALLOWABLE DESIGN BEARING PRESSURE: 3,500 PSF - FOUNDATION TYPE: SHALLOW SPREAD FOOTINGS	CONCENTRATED LOAD LOCATIONS. IF A PUNCH-OUT FALLS WITHIN 10" OF THESE LOCATIO THE MEMBER AS REQUIRED. ALTERNATELY, UN-PUNCHED SECTIONS MAY BE PROVIDED FO H. EACH MEMBER OF MULTIPLE MEMBER COLUMNS ARE TO BE SCREWED TOGETHER USING F SCREWS AT 12" O.C. ALTERNATELY, MULTIPLE MEMBER COLUMNS MAY BE WELDED TOGET
GATED DESIGN ITEMS PREFABRICATED ITEMS SHOWN ON THE STRUCTURAL DRAWINGS ARE REFERENCED FOR GENERAL COORDINATION PURPOSES ONLY. THESE SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS. JEZERINAC GEERS WILL REVIEW THE DESIGN METHODOLOGY, LOADS, AND INSTALLATION DETAILS AS PART OF THE	CENTER, EACH SIDE, EACH PIECE, FOR THE FULL LENGTH OF THE COLUMN. POST-INSTALLED ANCHOR SYSTEMS CENERAL
SHOP DRAWING REVIEW PROCESS AND MAY REQUEST A SEALED CALCULATION PACKAGE FOR REVIEW. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE ENGINEER RESPONSIBLE FOR THE DESIGN OF THE DESIGNED ITEMS. DELEGATED DESIGN ITEMS FOR THIS PROJECT INCLUDE THE FOLLOWING: A. DIVISION 13:	 GENERAL: A. LISTED ANCHOR PRODUCTS PROVIDED BELOW ARE NOT TO BE USED AS INTERCHANGEABL DEFINED CAPACITIES BASED UPON TESTED PERFORMANCE WITH APPLICABLE SAFETY FAC MANUFACTURERS. TYPES OF ANCHORS INDICATED THROUGHOUT THE DESIGN DOCUMENT SPECIFIC PURPOSE AND CAPACITY. SUBSTITUTION OF ANCHORS FROM THOSE SPECIFIED J
1. METAL BUILDING SYSTEMS FORCED CONCRETE	 ENGINEER REVIEW AND APPROVAL OR AMENDMENT FROM WRITTEN REQUEST BY THE CON B. PROVIDE ANCHORAGE MATCHING MANUFACTURER, TYPE, DIAMETER, EMBEDMENT, AND B/ DOCUMENTS. C. ALL POST-INSTALLED ANCHORS TO BE HAMMER DRILLED. FOLLOW ALL HOLE CLEANING AN
SPECIFICATIONS: IN GENERAL, COMPLY WITH ACI-301-20, "SPECIFICATIONS FOR STRUCTURAL CONCRETE". MATERIALS: A STRUCTURAL CONCRETE: EXPOSURE ADD CONTENT	STIPULATED BY THE ANCHOR MANUFACTURER. FOLLOW ALL OSHA GUIDELINES FOR CONC SILICA DUST. D. INSTALLATION OF ADHESIVE ANCHORS MUST BE PERFORMED BY PERSONNEL TRAINED TO THROUGH MANUFACTURER TRAINING PROGRAMS. E. INSTALLATION OF ADHESIVE ANCHORS IN THE HORIZONTAL OR UPWARDLY INCLINED ORIEI
MIX USAGE TC (PSI) MAX W/cm CLASS AIR CONTENT LEAN CONCRETE 2.000 F0 FOOTINGS & INTERIOR COLUMN PIERS 3.500 0.55 F1 INTERIOR SLABS ON GRADE 4.000 0.45 F0	SUSTAINED TENSION LOADS SHALL BE INSTALLED BY CERTIFIED PERSONNEL BY ACI/CRSI I F. MINIMUM CONCRETE AGE FOR POST-INSTALLED ADHESINE ANCHORS SHALL BE NOT LESS G. ALL ANCHORS IN CONTACT WITH PRESSURE TREATED LUMBER ARE TO BE HOT DIPPED GA MINIMUM G185 COATING OR STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMIN FASTENERS AND CONNECTORS ARE TO BE OF THE SAME MATERIAL, STAINLESS STEEL OR
EXTERIOR FOUNDATION STEMWALLS, EXTERIOR FOUNDATION WALLS, & EXTERIOR COLUMN PIERS4,5000.45F25%-7%EXTERIOR UNREINFORCED SLABS ON GRADE & EXTERIOR CONCRETE NOT OTHERWISE IDENTIFIED4,5000.45F2, C15%-7%	MIX MATERIALS. H. MINIMUM EMBEDMENT FOR MECHANICAL EXPANSION ANCHORAGE SYSTEMS IS TO BE 7 BO EMBEDMENT FOR SCREW ANCHORAGE AND ADHESIVE ANCHORAGE SYSTEMS IS TO BE 9 B
 B. ALL DEFORMED REINFORCING BARS: FY = 60,000 PSI. C. CEMENT: PORTLAND CEMENT, ASTM C150: TYPE I OR TYPE II; ASTM C1157: TYPE LH OR GU; OR ASTM C595: TYPE IL. ALL CEMENT FOR CONCRETE EXPOSED TO VIEW IS TO BE FROM THE SAME MILL. D. AGGREGATES: ASTM C33, USE SIZE NO. 57 FOR ALL MIXES UNLESS NOTED OTHERWISE. 	 ANCHORAGE TO CONCRETE A. ACCEPTABLE MECHANICAL EXPANSION ANCHORAGE SYSTEMS: DEWALT POWER STUD +SDI OR +SD2 WEDGE EXPANSION ANCHOR HILTI KWIK BOLT 3 EXPANSION ANCHOR HILTI KWIK BOLT TZZ EXPANSION ANCHOR
 E. ADMIXTURES: 1. WATER-REDUCING, LOW AND MID RANGE: ASTM C494, TYPE A OR D. 2. HIGH-RANGE WATER REDUCING, SUPERPLASTICIZER: ASTM C494, TYPE F OR G. F. AIR-ENTRAINING: ASTM C260. G. FLY-ASH: ASTM C618, TYPE C OR F. 	 4. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR B. ACCEPTABLE MECHANICAL SLEEVE ANCHORAGE SYSTEMS: (MAY NOT BE USED TO SECURE COMPONENTS) 1. DEWALT LOK-BOLT AS SLEEVE ANCHOR
 NON-CHLORIDE, NON-CORROSIVE ACCELERATOR: ASTM C494, TYPE C OR E. VAPOR RETARDER SHALL CONFORM TO ASTM E1745 "STANDARD SPECIFICATION FOR PLASTIC WATER VAPOR RETARDERS USED IN CONTACT WITH SOIL OR GRANULAR FILL UNDER CONCRETE SLABS", CLASS A. VAPOR RETARDER SHALL BE INSTALLED IN ACCORDANCE WITH ASTM E1643 "STANDARD PRACTICE FOR INSTALLATION OF 	2. HILTI HLC SLEEVE ANCHOR 3. SIMPSON SLEEVE-ALL SLEEVE ANCHOR C. ACCEPTABLE MECHANICAL SCREW ANCHORAGE SYSTEMS: 1. DEWALT SCREW-BOLT+ 2. HILTI KWIK HUS-EZ SCREW ANCHOR
WATER VAPOR RETARDERS USED IN CONTACT WITH EARTH OR GRANULAR FILL UNDER CONCRETE SLABS. THE VAPOR RETARDER/BARRIER SHALL BE A MINIMUM OF 15 MILS THICK AND PLACED DIRECTLY ON THE GRANULAR FILL, BELOW THE CONCRETE FLOOR SLAB. LAP JOINTS A MINIMUM OF 6 INCHES AND SEAL WITH MANUFACTURER'S RECOMMENDED TAPE OR ADHESIVE.	 SIMPSON TITEN HD SCREW ANCHOR ACCEPTABLE ADHESIVE ANCHORAGE SYSTEMS: DEWALT AC200+ ADHESIVE FOR REINFORCING BAR DEWALT PURE50+ ADHESIVE FOR THREADED ROD AND REINFORCING BAR
FIELD MANUAL: PROVIDE AT LEAST ONE COPY OF THE ACI FIELD REFERENCE MANUAL, MNL-15(20) IN THE FIELD OFFICE AT ALL TIMES. SUBMITTALS: A. SUBMIT A MIX DESIGN FOR EACH MIXTURE USAGE REQUIRED FOR THE PROJECT. CONCRETE PROPORTIONS ARE TO BE ESTABLISHED ON THE BASIS OF PREVIOUS FIELD EXPERIENCE OR TRIAL MIXTURES.	 DEWALT PURE110+ ADHESIVE FOR THREADED ROD AND REINFORCING BAR HILTI HIT-HY 200/3 ADHESIVE FOR THREADED ROD, REINFORCING BAR, AND HILTI SPE HILTI HIT-RE 500 ADHESIVE FOR THREADED ROD AND REINFORCING BAR. HILTI HIT-RE 100 ADHESIVE FOR THREADED ROD AND REINFORCING BAR. SIMPSON AT-XP ADHESIVE FOR THREADED ROD AND REINFORCING BAR.
 B. SUBMIT PLACING DRAWINGS FOR ALL REINFORCING. INDICATE STRENGTH, SIZE, AND DETAILS OF ALL BAR REINFORCING. C. SUBMIT PRODUCT LITERATURE FOR ADMIXTURES AND CURING COMPOUNDS PROPOSED FOR USE. D. SUBMIT REPORTS OF ALL REQUIRED TESTING AND INSPECTIONS. CONTINGENCIES: 	 SIMPSON SET-3G ADHESIVE FOR THREADED ROD AND REINFORCING BAR. ANCHORAGE TO CONCRETE MASONRY OR BRICK MASONRY AS INDICATED: FOLLOW ALL MANUFACTURERS INSTALLATION INSTRUCTIONS IN REGARD TO LOCATION OF JOINTS, MINIMUM EDGE DISTANCES, AND MINIMUM ANCHOR SPACING.
 A. PROVIDE LEAN CONCRETE UNDER FOUNDATIONS FOR ACCIDENTAL OVER EXCAVATION, SOFT SPOTS, AND UTILITY TRENCHES. FOOTINGS, PIERS, WALLS: A. DOWELS IN FOOTINGS TO MATCH VERTICAL PIER OR WALL REINFORCING. 	 B. ACCEPTABLE MECHANICAL EXPANSION ANCHORAGE SYSTEMS: 1. DEWALT POWER STUD +SDI, SD4/SD6 WEDGE EXPANSION ANCHOR IN GROUT FILLED 2. HILTI KWIK BOLT 3 EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MAS(3. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MAS(3. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MAS(3. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MAS(3. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MAS(3. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MAS(3. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MAS(3. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MAS(3. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MAS(3. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MAS(3. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MAS(3. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MAS(3. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MAS(3. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MAS(3. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MAS(3. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MAS(3. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MAS(3. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MAS(3. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MAS(3. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MAS(3. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR IN GROUT FILLED ANCHOR ANCHOR
 B. PROVIDE CORNER BARS AT WALL AND FOOTING CORNERS TO MATCH HORIZONTAL REINFORCING. C. LAP BARS AS INDICATED IN THE CONCRETE REINFORCING LAP SCHEDULE. SPLICES: A. LAP SPLICE REINFORCING BARS AS SCHEDULED. MINIMUM LAP = 36 DIAMETERS. 	 C. ACCEPTABLE MECHANICAL SLEEVE ANCHORAGE SYSTEMS: (MAY NOT BE USED TO SECURE COMPONENTS) 1. DEWALT LOK-BOLT AS SLEEVE ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCI MASONRY 2. HILTI HLC SLEEVE ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASON
CONSTRUCTION JOINTS: A. CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER. FINISHES:	 SIMPSON SLEEVE-ALL SLEEVE ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASC ACCEPTABLE MECHANICAL SCREW ANCHORAGE SYSTEMS: HILTI KWIK HUS-EZ SCREW ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONR DEWALT SCREW-BOLT+ SCREW ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONR
 A. PER ACI 117, SURFACES OF INTERIOR SLABS ON GRADE ARE TO BE FINISHED TO THE FOLLOWING TOLERANCES: FLOOR FLATNESS F(f)=30 AND LEVELNESS F(I)=20 UNLESS NOTED OTHERWISE IN SPECIFICATIONS. B. TYPICAL INTERIOR FLOOR AREAS TO RECEIVE CARPET, RESILIENT FLOOR COVERING, OR TO REMAIN EXPOSED - TROWELED FINISH. 	 SIMPSON TITEN HD SCREW ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRET ACCEPTABLE ADHESIVE ANCHORAGE SYSTEMS: DEWALT AC100+ GOLD FOR THREADED ROD AND REINFORCING BAR IN GROUT FILLEI WITH SCREEN TUBES IN HOLLOW MASONRY CONSTRUCTION. HILTI HIT-HY 270 ADHESIVE FOR THREADED ROD, REINFORCING BAR, AND HILTI SPEC
 C. INTERIOR FLOOR AREAS TO RECEIVE QUARRY TILE OR CERAMIC TILE - FLOATED FINISH. D. EXTERIOR SLABS - BROOM FINISH. CURING: A. CURING IS TO COMMENCE IMMEDIATELY AFTER CONCRETE PLACEMENT AND CONTINUE FOR AT LEAST 7 DAYS. DO NOT ALLOW 	 GROUT FILLED OR SOLID CONCRETE MASONRY CONSTRUCTION. USE WITH SCREEN WYTHE MASONRY, OR BRICK WITH HOLES CONSTRUCTION. SIMPSON SET-XP ADHESIVE FOR THREADED ROD AND REINFORCING BAR IN GROUT F CONCRETE MASONRY.
 CURING TO BE DELAYED OVERNIGHT. B. INTERIOR SLABS TO RECEIVE QUARRY TILE OR CERAMIC TILE ARE TO BE MOIST-CURED WITHOUT THE USE OF A CURING COMPOUND. C. ALL OTHER SLABS MAY BE EITHER MOIST-CURED OR RECEIVE AN APPLICATION OF CURING COMPOUND. 	
 FIELD QUALITY CONTROL: A. OBTAIN CONCRETE FOR REQUIRED TESTS AT POINT OF PLACEMENT. IF CONCRETE IS PUMPED, OBTAIN CONCRETE AT DISCHARGE END. B. FOR EACH CLASS OF CONCRETE, OTHER THAN LEAN CONCRETE, PERFORM ONE STRENGTH TEST FOR EACH 50 YARDS, OR 	
 FRACTION THEREOF, FOR ONE DAY PLACEMENT. DETERMINE SLUMP FOR EACH STRENGTH TEST. DETERMINE AIR CONTENT FOR EACH STRENGTH TEST OF EXTERIOR EXPOSED CONCRETE. MAINTAIN RECORDS OF ALL TESTS INDICATING EXACT LOCATION OF THE STRUCTURE REPRESENTED BY EACH TEST. 	
DNRY MATERIALS: A. CONCRETE BLOCK: ASTM C90 (HOLLOW AND SOLID), MINIMUM NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY	
UNITS = 2,600 PSI. B. MORTAR: ASTM 270 TYPE S, MINIMUM COMPRESSIVE STRENGTH = 1,800 PSI C. GROUT FOR BOND BEAM AND CORE FILL: ASTM C476, COARSE TYPE WITH fc = 2,500 PSI MIN. D. DESIGN COMPRESSIVE STRENGTH OF MASONRY SYSTEM: fm = 2,250 PSI	
 E. ALL DEFORMED REINFORCING BARS: FY = 60,000 PSI. LAP BARS AS INDICATED IN THE CONCRETE MASONRY REINFORCING LAP SCHEDULE. F. HORIZONTAL JOINT REINFORCING: STANDARD LADDER TYPE, 9 GA., HOT-DIPPED GALVANIZED FINISH. PROVIDE AT 8° O.C. BELOW GRADE, AND 16" O.C. ABOVE GRADE, UNLESS NOTED OTHERWISE. 	
MISCELLANEOUS: A. PROVIDE SOLID OR GROUT-FILLED CMU FOR ALL BELOW-GRADE FOUNDATION WALLS. B. FILL CORE SOLID AROUND CAST-IN ANCHOR RODS. C. PROVIDE SOLID CMU OR SOLIDLY FILLED HOLLOW CMU AT ALL EPOXY ANCHOR AND WEDGE ANCHOR LOCATIONS. EXTEND	
 SOLID AREA AT LEAST 8" IN ALL DIRECTIONS FROM CENTER OF ANCHOR. HOLLOW MASONRY UNITS TO BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. WEBS ARE TO ALSO BE BEDDED IN ALL COURSES OF PIERS, PILASTERS, THE STARTING COURSE ON FOOTINGS, AND WHEN ADJACENT TO CELLS OR CAVITIES TO BE REINFORCED OR FILLED WITH CONCRETE OR GROUT. SOLID UNITS TO BE LAID WITH FULL HEAD AND BED JOINTS. 	
 E. WHERE HOLLOW MASONRY UNITS ARE USED ABOVE HOLLOW MASONRY UNITS OF A DIFFERENT THICKNESS, PROVIDE A CONTINUOUS COURSE OF SOLID MASONRY AT LEAST 8" HIGH BELOW THE TRANSITION. F. LAP SPLICE REINFORCING BARS AS SCHEDULED. G. ALL GROUTING OF MASONRY WALLS IS TO BE BY THE LOW-LIFT GROUTING METHOD (MAXIMUM LIFT HEIGHT 5'-0"), UNLESS 	
CLEAN-OUTS AND INSPECTIONS ARE PROVIDED. CTURAL STEEL MATERIALS:	
MATERIALS: A. STRUCTURAL STEEL WIDE FLANGE SHAPES: ASTM A992, Fy = 50 KSI B. STRUCTURAL STEEL CHANNELS, ANGLES, PLATES, ETC.: ASTM A36, Fy = 36 KSI C. HIGH STRENGTH BOLTS: ASTM A325 OR A490 D. ANCHOR RODS: ASTM F1554, GRADE 36, UNLESS NOTED OTHERWISE	
 E. ELECTRODES: SERIES E70 SPECIFICATIONS: A. WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS D1.1. UNLESS SPECIFICALLY SHOWN OTHERWISE, 	
 DESIGN, FABRICATION AND ERECTION TO BE GOVERNED BY THE LATEST REVISIONS OF: AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS. AISC CODE OF STANDARD PRACTICE. STRUCTURAL WELDING CODE, AWS D1.1 OF THE AMERICAN WELDING SOCIETY. SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. 	
SUBMITTALS: A. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL WHICH INCLUDE ERECTION PLANS, CONNECTION DETAILS, AND SHOP DETAILS INDICATING CUTS, COPES, CAMBERS, CONNECTIONS, HOLES, THREADED FASTENER TYPES AND SIZES, AND SIZES AND	
LENGTHS OF WELDS. B. INDICATE MATERIAL SPECIFICATIONS, STRENGTHS, AND FINISHES. CONNECTIONS: A. FIELD CONNECTIONS ARE TO BE BOLTED, EXCEPT AS INDICATED OTHERWISE. SHOP CONNECTIONS MAY BE WELDED OR	
 BOLTED. CONNECTIONS ARE TO BE DESIGNED BY THE FABRICATOR TO DEVELOP EITHER 110% OF THE FULL UNIFORM LOAD CAPACITY OF THE MEMBER (55% EACH END), OR THE FORCES SHOWN ON THE PLANS. MINIMUM CONNECTION CAPACITY TO BE 15 KIPS. FOLLOW INSTRUCTIONS ON DRAWINGS FOR GENERAL ARRANGEMENT OR PARTICULAR DETAILS. 	
COATINGS: A. DO NOT PAINT STEEL OR ANCHOR RODS WHICH WILL BE ENCASED IN CONCRETE OR MASONRY, NOR ANY STEEL WHICH IS SCHEDULED TO RECEIVE SPRAY-APPLIED OR INTUMESCENT-MASTIC FIREPROOFING. B. PAINT ALL INTERIOR EXPOSED STEEL (INCLUDING INTERIOR LINTELS) WITH TWO COATS OF RED-OXIDE PRIMER.	
C. HOT-DIP GALVANIZE ALL EXTERIOR STEEL (INCLUDING LINTELS AND BRICK SHELF ANGLES).	

US: HOLES FOR OTHERS. IF OPENING IS NOT SHOWN ON THE STRUCTURAL DRAWINGS, OBTAIN PRIOR APPROVAL. JPPORTING OR CONNECTING TO MECHANICAL AND OTHER EQUIPMENT AND ROOF OPENINGS AS SHOWN ON ICTURAL, MECHANICAL AND/OR ON STRUCTURAL DRAWINGS IS SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR CONCIL E EVACT SIZE AND LOCATION WITH MECHANICAL AND OTHER PEOULOBMENTS DECORE DROCEEDING WITH THIS INFORMATION OF A DECORE OF	AB ADD'L ALUM	ANCHOR BOLT ADDITIONAL ALUMINUM	DURING CONSTRUCTION INCLUDING INSPECTIONS OF SHOP-FABRICATED ITEMS WHEN APPLICABLE. ALL INSPEC WHEN REQUIRED, SHALL BE QUALIFIED AND APPROVED BY THE BUILDING OFFICIAL. REFER TO OTHER DISCIPLIN SYSTEMS.	IES FOR SPECIAL INSPECTION	
CONCILE EXACT SIZE AND LOCATION WITH MECHANICAL AND OTHER REQUIREMENTS BEFORE PROCEEDING WITH THIS	ARCH	ARCHITECTURAL	TABLE 1 STATEMENT OF SPECIAL INSPECTIONS FOR STRUCTUR.		
NDS OF ALL COLUMNS, STIFFENERS AND ALL OTHER MEMBERS IN DIRECT BEARING. HITECTURAL SECTIONS AND DETAILS FOR ALL MISCELLANEOUS STRUCTURAL STEEL NOT OTHERWISE INDICATED IN	B/ or BO BFB	BOTTOM OF BOTTOM FLANGE BRACE	REQUIRED SPECIAL INSPECTIONS AND TESTS FOR SOILS TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
UCTURAL DRAWINGS. ' CONTROL:	BLDG BM	BUILDING BEAM	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		X
ION AGENCY IS TO PERFORM INSPECTION OF BOLTED CONNECTIONS PER THE REQUIREMENTS OF AISC SPECIFICATION UCTURAL JOINTS.	BOT	BOTTOM	2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. 3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND		X X
	CFMF CFMT	COLD-FORMED METAL FRAMING COLD-FORMED METAL TRUSS	COMPACTION OF COMPACTED FILL. 5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN	X	 X
ZED SHEET STEEL: ASTM A653 ECK: 9/16" DEEP, CONFORM, GALVANIZED.	CJ CLR CM	CONTROL OR CONSTRUCTION JOINT CLEAR CONSTRUCTION MANAGER	PREPARED PROPERLY. REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONST	TRUCTION	
NS:	CMU COL	CONCRETE MASONRY UNIT COLUMN	TYPE 1. INSPECT REINFORCEMENT AND VERIFY PLACEMENT.	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION X
G PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS. DESIGN, FABRICATION, AND ERECTION TO BE ED BY THE LATEST REVISIONS OF: SI "SPECIFICATION OF THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."	CONC	CONCRETE CONTINUOUS	INSPECT ANCHORS CAST IN CONCRETE. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.		X
RUCTURAL WELDING CODE, AWS D1.3 OF THE AMERICAN WELDING SOCIETY. I "DESIGN MANUAL FOR FLOOR DECK AND ROOF DECKS".	COORD	COORDINATE CUBIC YARD	 A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4A. 	X	 X
: 0 COLD-FORMED FRAMING: #12 SCREWS.	DBL	DOUBLE	A. VERIFY USE OF REQUIRED DESIGN MIX. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP	 X	X X
FASTENING: #10 SCREWS.	DEMO DET	DEMOLISH OR DEMOLITION DETAIL	AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. 6. INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.		X
ZED: CONFORM TO ASTM A653, G60.	DIA DIAG	DIAMETER DIAGONAL	7. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES. 8. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		X X
E TO BE CONTINUOUS OVER AT LEAST THREE SPANS. WHERE FEWER THAN THREE SPANS ARE NEEDED, GAGE IS TO EASED AS REQUIRED TO OBTAIN THE SAME DESIGN STRENGTH AS THE THREE-SPAN CONDITION. END LAPS ARE ONLY	DIM DWG	DIMENSION DRAWING	'LEVEL B' QUALITY ASSURANCE REQUIRED SPECIAL INSPECTIONS AND TESTS OF N	ASONRY CONSTRUCTION	
TED OVER SUPPORTS. JTTING TO BE PERFORMED WITH A SAW.	EA	EACH	MINIMUM TESTS VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED IN ACCORDANCE WITH ARTICLE 1.5.B.1.b.3 FOR SELF CONSOLIDATIN		
AL FRAMING	EJ ENG	EXPANSION JOINT ENGINEER	VERIFICATION OF f _m AND f _{AAC} IN ACCORDANCE WITH ARTICLE 1.4B PRIOR TO EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE CODE.	CONSTRUCTION,	
IRMED METAL STUDS AND JOISTS SHOWN ON THE CONTRACT DOCUMENTS ARE DESIGNATED BY "DEPTH", "SHAPE",	EW EXP	EACH WAY EXPANSION	MINIMUM SPECIAL INSPECTION TYPE	CONTINUOUS	PERIODIC
AND "THICKNESS" AS FOLLOWS: PTH: 362 (3-5/8"), 600 (6"), 800 (8"), ETC. APE: S (C-SHAPE), T (TRACK), U (CHANNEL)	FDN	FOUNDATION	1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS.	SPECIAL INSPECTION	SPECIAL INSPECTION X
DTH: 125 (1-1/4"), 162 (1-5/8"), 200 (2"), ETC. ICKNESS: -43 (18 GA.), -54 (16 GA.), -68 (14 GA.), -97 (12 GA.)	FIN FLR FTC	FINISH OR FINISHED FLOOR FOOTING	 AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: PROPORTIONS OF SITE-PREPARED MORTAR. CONSTRUCTION OF MORTAR JOINTS. 		X X
E: 600S162-54 = 6" C-SHAPE, 1 5/8" FLANGE, 16 GA. A AND LIGHTER STUDS TO BE 33 KSI MATERIAL; ALL 16 GA AND HEAVIER STUDS TO BE 50 KSI MATERIAL.	FTG FRTW FV	FOOTING FIRE-RETARDANT TREATED WOOD FIELD VERIEY	C. LOCATION OF REINFORCEMENT AND CONNECTORS. 3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		X
CKS AND ACCESSORIES: FY = 33 KSI MINIMUM.	FV	FIELD VERIFY GAGE	A. GROUT SPACE. B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS. C. PLACEMENT OF REINFORCEMENT AND CONNECTORS.		X X
NO. 5 PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS. DESIGN, FABRICATION, AND ERECTION TO BE ED BY LATEST REVISIONS OF: INTERCENTION OF THE DESIGN OF COLOR FORMER STELL STRUCTURAL MEMORIPOR II	GA GALV GC	GAGE GALVANIZE GENERAL CONTRACTOR	C. PLACEMENT OF REINFORCEMENT AND CONNECTORS. D. PROPORTIONS OF SITE-PREPARED GROUT. E. CONSTRUCTION OF MORTAR JOINTS.		X X X
SI "SPECIFICATION OF THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS." RUCTURAL WELDING CODE, AWS D1.3 OF THE AMERICAN WELDING SOCIETY.	GC	GENERAL CONTRACTOR	 VERIFY DURING CONSTRUCTION: A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. 		x
MANUFACTURER'S STANDARD PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR EACH TYPE OF COLD-FORMED RAMING AND ACCESSORY REQUIRED.	HC HORIZ	HORIZONTAL	 B. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. C. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER 		Х
	ID IF	INSIDE DIMENSION INSIDE FACE	C. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASJONRY DURING COLD WEATHER (TEMPERATURE BELOW 40° F) OR HOT WEATHER (TEMPERATURE ABOVE 90° F)		х
DNNECTIONS MAY BE EITHER WELDED OR SCREWED, EXCEPT AS SPECIFICALLY DETAILED OTHERWISE. ZE TO BE 1/8" WITH AWS TYPE 6013 OR 7014 ROD. AS NOTED OTHERWISE, MECHANICAL FASTENERS TO BE SELF TAPPING #10-16 SCREWS.	INT	INTERIOR	D. PLACEMENT OF GROUT. 5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS.		X X
ERIAL TO BE GALVANIZED COATED IN ACCORDANCE WITH ASTM A525 G-60.	JST JT	JOIST JOINT			
PRIAL TO BE GALVARIZED COATED IN ACCORDANCE WITH ASTM A523 G-00.	КВ	KICKER BRACE	TABLE 2 STATEMENT OF SPECIAL INSPECTIONS FOR STRUCTURA		
US: D CUTTING TO BE PERFORMED WITH A SAW. TO BE SECURELY ANCHORED TO SUPPORTING STRUCTURE WITH WELD OR SCREW AT EACH SIDE OF TRACKS.	L	ANGLE	TABLE 2 STATEMENT OF SPECIAL INSPECTIONS FOR STRUCTURA REQUIRED SPECIAL INSPECTIONS AND TESTS OF STRUCTURAL STEEL C		
: HORIZONTAL BRIDGING AT 6'-0" O.C. MAX. FOR ALL STUD WALLS UNLESS NOTED OTHERWISE. BRIDGING IS NOT ED FOR PORTIONS OF INTERIOR NON-LOADBEARING STUD WALLS WHERE BOTH SIDES ARE FACED WITH SHEATHING.	LGMF LLBB	LIGHT GAGE METAL FRAMING LONG LEG BACK-TO-BACK	TYPE 1. INSPECTION TASKS PRIOR TO WELDING:	PERFO	RM OBSERVE
O BE LOCATED DIRECTLY OVER BEARING WALL STUDS UNLESS A LOAD DISTRIBUTION MEMBER IS PROVIDED AT THE CK. ; WALL STUDS ARE TO BE LOCATED DIRECTLY BELOW JOIST BEARING UNLESS A LOAD DISTRIBUTION MEMBER IS	LLH LLV	LONG LEG HORIZONTAL LONG LEG VERTICAL	 A. WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS. B. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE. C. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE. 		X
ED AT THE TOP TRACK. CKING OR CONTINUOUS TRACK IS TO BE PROVIDED WHERE JOIST ENDS ARE NOT OTHERWISE RESTRAINED FROM	MAS	MASONRY	D. MATERIAL IDENTIFICATION (TYPE/GRADE) E. WELDER IDENTIFICATION SYSTEM.		X X
IN. ICH-OUTS FOR BEAMS, JOISTS, AND RAFTERS ARE TO BE LOCATED A MINIMUM OF 10" AWAY FROM BEARING AND TRATED LOAD LOCATIONS. IF A PUNCH-OUT FALLS WITHIN 10" OF THESE LOCATIONS, PROVIDE REINFORCEMENT FOR	MAX MIN	Maximum Minimum	 F. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY): JOINT PREPARATIONS. 		x
IBER AS REQUIRED. ALTERNATELY, UN-PUNCHED SECTIONS MAY BE PROVIDED FOR BEAMS, JOISTS, AND RAFTERS. EMBER OF MULTIPLE MEMBER COLUMNS ARE TO BE SCREWED TOGETHER USING FULL-HEIGHT TRACKS AND #10 AT 12" O.C. ALTERNATELY, MULTIPLE MEMBER COLUMNS MAY BE WELDED TOGETHER WITH A 1" WELD AT 18" ON	MTL	METAL	 DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL. CLEANLINESS (CONDITION OF STEEL SURFACES). TACKING (TACK WELD QUALITY AND LOCATION). 		
EACH SIDE, EACH PIECE, FOR THE FULL LENGTH OF THE COLUMNS MAY BE WELDED FOGETHER WITH A T WELD AT 18 ON	N NA	NORTH NOT APPLICABLE	BACKING TYPE AND FIT (IF APPLICABLE). BACKING TYPE AND FIT (IF APPLICABLE). FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y-, AND K-JOINTS WITHOUT BACKING (INCLUDING JOIN	т –	X
ICHOR SYSTEMS	NIC NOM	NOT IN CONTRACT NOMINAL	GEOMETRY): JOINT PREPARATIONS. JOINT PREPARATIONS.		X
NCHOR PRODUCTS PROVIDED BELOW ARE NOT TO BE USED AS INTERCHANGEABLE PRODUCTS. EACH ANCHOR HAS CAPACITIES BASED UPON TESTED PERFORMANCE WITH APPLICABLE SAFETY FACTORS AND WILL VARY ACROSS	NTS	NOT TO SCALE	 DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL. CLEANLINESS (CONDITION OF STEEL SURFACES). TACKING (TACK WELD QUALITY AND LOCATION). 		
CTURERS. TYPES OF ANCHORS INDICATED THROUGHOUT THE DESIGN DOCUMENTS ARE DETAILED FOR THEIR CPURPOSE AND CAPACITY. SUBSTITUTION OF ANCHORS FROM THOSE SPECIFIED ARE ONLY ALLOWED AFTER	OC OD	ON CENTER OUTSIDE DIAMETER	H. CONFIGURATION AND FINISH OF ACCESS HOLES. I. FIT-UP OF FILLET WELDS:		X
IR REVIEW AND APPROVAL OR AMENDMENT FROM WRITTEN REQUEST BY THE CONTRACTOR. E ANCHORAGE MATCHING MANUFACTURER, TYPE, DIAMETER, EMBEDMENT, AND BASE MATERIAL AS INDICATED IN THE INTS.	OH OPP	OVERHEAD OPPOSITE	 DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL. CLEANLINESS (CONDITION OF STEEL SURFACES). 		X X
T-INSTALLED ANCHORS TO BE HAMMER DRILLED. FOLLOW ALL HOLE CLEANING AND INSTALLATION INSTRUCTIONS AS TED BY THE ANCHOR MANUFACTURER. FOLLOW ALL OSHA GUIDELINES FOR CONCRETE DRILLING AS IT PERTAINS TO	OPNG OSB	OPENING ORIENTED STRAND BOARD	TACKING (TACK WELD QUALITY AND LOCATION). 2. INSPECTION TASKS DURING WELDING: A. CONTROL AND HANDLING OF WELDING CONSUMABLES.		X
UST. ATION OF ADHESIVE ANCHORS MUST BE PERFORMED BY PERSONNEL TRAINED TO INSTALL ADHESIVE ANCHORS H MANUFACTURER TRAINING PROGRAMS.	PAF	POWDER ACTUATED FASTENERS	CONTROL AND HANDLING OF WELDING CONSUMABLES. PACKAGING EXPOSURE CONTROL		X X
ATION OF ADHESIVE ANCHORS IN THE HORIZONTAL OR UPWARDLY INCLINED ORIENTATION AND WHERE SUPPORTING ED TENSION LOADS SHALL BE INSTALLED BY CERTIFIED PERSONNEL BY ACI/CRSI INSTALLATION PROGRAMS.	PC PEMB PERP	PRECAST PRE-ENGINEERED METAL BUILDING PERPENDICULAR	B. NO WELDING OVER CRACKED TACK WELDS.C. ENVIRONMENTAL CONDITIONS:		X
I CONCRETE AGE FOR POST-INSTALLED ADHESIVE ANCHORS SHALL BE NOT LESS THAN 28 DAYS. HORS IN CONTACT WITH PRESSURE TREATED LUMBER ARE TO BE HOT DIPPED GALVANIZED PER ASTM A153 WITH A I G185 COATING OR STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMING TO AISI 303/304 OR AISI 316.	PERP PSI PSF	PERPENDICULAR POUNDS PER SQUARE INCH POUNDS PER SQUARE FOOT	WIND SPEED WITHIN LIMITS PRECIPITATION AND TEMPERATURE		X X
ERS AND CONNECTORS ARE TO BE OF THE SAME MATERIAL, STAINLESS STEEL OR HOT DIPPED GALVANIZED, DO NOT ERIALS. I EMBEDMENT FOR MECHANICAL EXPANSION ANCHORAGE SYSTEMS IS TO BE 7 BOLT DIAMETERS. MINIMUM	REINF	REINFORCING	D. WPS FOLLOWED: • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED		X
ENT FOR SCREW ANCHORAGE AND ADHESIVE ANCHORAGE SYSTEMS IS TO BE 9 BOLT DIAMETERS.	REQ'D	REQUIRED	SELECTED WELDING MATERIALS SHIELDING GAS TYPE/FLOW RATE		
O CONCRETE ABLE MECHANICAL EXPANSION ANCHORAGE SYSTEMS: WALT POWER STUD +SDI OR +SD2 WEDGE EXPANSION ANCHOR	SCHED SECT	SCHEDULE SECTION	PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) PROPER POSITION (F, V, H, OH)		X X V
.TI KWIK BOLT 3 EXPANSION ANCHOR .TI KWIK BOLT TZ2 EXPANSION ANCHOR	SECT SER SF	SECTION STRUCTURAL ENGINEER OF RECORD SQUARE FOOT	PROPER POSITION (F, V, H, OH) TRAVEL SPEED E. WELDING TECHNIQUES		X
IPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR ABLE MECHANICAL SLEEVE ANCHORAGE SYSTEMS: (MAY NOT BE USED TO SECURE MAIN BUILDING FRAME IENTS)	SF SL SLBB	SLOPED SHORT LEG BACK-TO-BACK	WELDING TECHNIQUES INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS		x x
WALT ['] LOK-BOLT AS SLEEVE ANCHOR .TI HLC SLEEVE ANCHOR	SPEC SQ	SPECIFICATION SQUARE	EACH PASS MEETS QUALITY REQUIREMENTS F. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	X	X
IPSON SLEEVE-ALL SLEEVE ANCHOR ABLE MECHANICAL SCREW ANCHORAGE SYSTEMS: WALT SCREW-BOLT+	SS STD	STAINLESS STEEL STANDARD	INSPECTION TASKS AFTER WELDING: A. WELDS CLEANED. SIZE LENGTH AND LOCATION OF WELDS	X	X
.TI KWIK HUS-EZ SCREW ANCHOR IPSON TITEN HD SCREW ANCHOR	SY SYM	SQUARE YARD SYMMETRICAL	B. SIZE, LENGTH, AND LOCATION OF WELDS C. WELDS MEET VISUAL ACCEPTANCE CRITERIA: CRACK PROHIBITION		
ABLE ADHESIVE ANCHORAGE SYSTEMS: WALT AC200+ ADHESIVE FOR REINFORCING BAR WALT PURE50+ ADHESIVE FOR THREADED ROD AND REINFORCING BAR	T/ or TO	TOP OF	WELD /BASE-METAL FUSION CRATER CROSS SECTION		
WALT PURE110+ ADHESIVE FOR THREADED ROD AND REINFORCING BAR .TI HIT-HY 200v3 ADHESIVE FOR THREADED ROD, REINFORCING BAR, AND HILTI SPECIFIC ROD AND INSERT SYSTEMS.	T&B TEMP	TOP AND BOTTOM TEMPORARY OR TEMPERATURE	WELD PROFILES WELD SIZE INDEPCTIT	X	
.TI HIT-RE 500 ADHESIVE FOR THREADED ROD AND REINFORCING BAR. .TI HIT-RE 100 ADHESIVE FOR THREADED ROD AND REINFORCING BAR. IPSON AT-XP ADHESIVE FOR THREADED ROD AND REINFORCING BAR.	T&G TYP	TONGUE AND GROOVE TYPICAL	UNDERCUT POROSITY D. ARC STRIKES.		
IPSON SET-3G ADHESIVE FOR THREADED ROD AND REINFORCING BAR.	UN	UNLESS NOTED	D. ARC STRIKES. E. K-AREA F. WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES.		
ALL MANUFACTURERS INSTALLATION INSTRUCTIONS IN REGARD TO LOCATION OF ANCHORS AWAY FROM HEAD VINIMUM EDGE DISTANCES, AND MINIMUM ANCHOR SPACING.	UNO	UNLESS NOTED OTHERWISE	G. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED).H. REPAIR ACTIVITIES.	X X X	
ABLE MECHANICAL EXPANSION ANCHORAGE SYSTEMS: WALT POWER STUD +SDI, SD4/SD6 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY .TI KWIK BOLT 3 EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY	VB VERT	VAPOR BARRIER VERICAL	 DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER. NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR. NON-DESTRUCTIVE TESTING FOR COMPLETE-JOINT-PENETRATION (CJP) WELDS: 	X	x
IPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY ABLE MECHANICAL SLEEVE ANCHORAGE SYSTEMS: (MAY NOT BE USED TO SECURE MAIN BUILDING FRAME	W	WIDE FLANGE	K. NON-DESTRUCTIVE TESTING FOR COMPLETE-JOINT-PENETRATION (CJP) WELDS: UT SHALL BE PERFORMED ON ALL CJP JOINTS IN MATERIAL 5/16" AND GREATER. INSPECTION TASKS PRIOR TO BOLTING FOR PRETENSIONED OR SLIP CRITICAL BOLTED JOINTS:	X	
IENTS) WALT LOK-BOLT AS SLEEVE ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY, AND SOLID BRICK SONRY	W/ W/O	WITH WITHOUT	 A. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS. B. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS. 	X	 X
SUNRY TI HLC SLEEVE ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY, AND SOLID BRICK MASONRY IPSON SLEEVE-ALL SLEEVE ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY	WT WWF	WEIGHT WELDED WIRE FABRIC	C. CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREAD EXCLUDED FROM SHEAR PLANE).	DS ARE TO BE	X
ABLE MECHANICAL SCREW ANCHORAGE SYSTEMS: .TI KWIK HUS-EZ SCREW ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY WALT SCREW-BOLT+ SCREW ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY AND BRICK MASONRY	YD	YARD	D. CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL. E. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS.	:	X X
IPSON TITEN HD SCREW ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY ABLE ADHESIVE ANCHORAGE SYSTEMS:			F PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCU FASTENER ASSEMBLIES AND METHODS USED.		x
WALT AC100+ GOLD FOR THREADED ROD AND REINFORCING BAR IN GROUT FILLED MASONRY CONSTRUCTION. USE TH SCREEN TUBES IN HOLLOW MASONRY CONSTRUCTION. .TI HIT-HY 270 ADHESIVE FOR THREADED ROD, REINFORCING BAR, AND HILTI SPECIFIC ROD AND INSERT SYSTEMS IN			 G. PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPON 5. INSPECTION TASKS DURING BOLTING FOR PRETENSIONED OR SLIP CRITICAL BOLTED JOINTS: A. FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS RE 		X
OUT FILLED OR SOLID CONCRETE MASONRY CONSTRUCTION. USE WITH SCREEN TUBES IN HOLLOW MASONRY, MULIT- THE MASONRY, OR BRICK WITH HOLES CONSTRUCTION.			 A. FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS RE B. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION. C. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING. 		
IPSON SET-XP ADHESIVE FOR THREADED ROD AND REINFORCING BAR IN GROUT FILLED, SOLID, AND HOLLOW NCRETE MASONRY.			D. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSIN SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES.	IG	X
			6 INSPECTION TASKS AFTER ALL BOLTING:		

	SPLICE SCHE	
	000 psi & 3,500 psi C NCOATED REINFOR	
BAR SIZE	3/4" CLR.	1 1/2" CLR. AND GREATER
#4	3'-1" 2'-4"	3'-1" 2'-4"
#5	3'-10" 3'-0"	3'-10" 3'-0"
#6	4'-8" 3'-7"	4'-8" 3'-7"
#7	7'-6" 5'-9"	6'-9" 5'-2"
#8	9'-3" 7'-1"	7'-9" 5'-11"
#9	11'-2" 8'-7"	8'-8" 6'-8"
#10	13'-6" 10'-4"	9'-10" 7'-6"
#11	15'-10"12'-2"	10'-11"8'-4"

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INSPECTION DURING PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL A. STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS (ANCHOR DIAMETER, GRADE, TYPE, AND LENGTH OF THE ANCHOR ROD OR EMBEDED ITEM AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE

2. "OBSERVE" — THE INSPECTOR SHALL OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE.

8. INSPECTION OF THE FABRICATED STEEL OR ERECTED STEEL FRAME IN COMPLIANCE WITH THE DETAILS SHOWN ON

1. "PERFORM" — THESE TASKS SHALL BE PERFORMED FOR EACH WELDED/BOLTED JOINT OR MEMBER

A. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.

CONCRETE) PRIOR TO PLACEMENT OF CONCRETE.

6. INSPECTION TASKS AFTER ALL BOLTING:

THE CONSTRUCTION DOCUMENTS. STRUCTURAL STEEL INSPECTION NOTES:

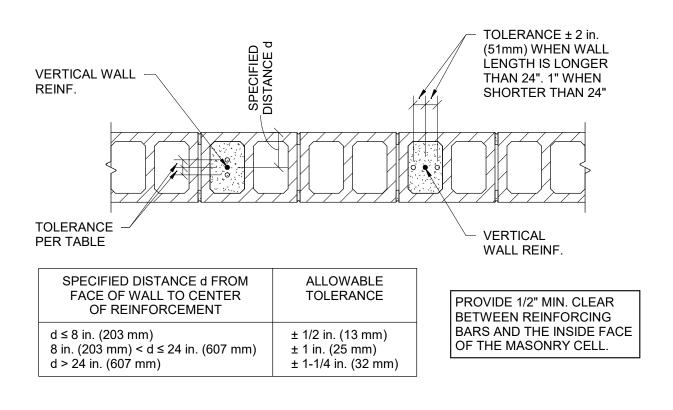
7. ANCHOR ROD PLACEMENT

	SPLICE SCHE	
	000 psi & 4,500 psi C ICOATED REINFOR	
BAR SIZE	3/4" CLR.	1 1/2" CLR. AND GREATER
#4	2'-8" 2'-1"	2'-8" 2'-1"
#5	3'-4" 2'-7"	3'-4" 2'-7"
#6	4'-0" 3'-1"	41.01
#7	6'-6" 5'-0"	5'-10" 4'-6"
#8	8'-0" 6'-2"	6'-8" 5'-2"
#9	9'-8" 7'-6"	7'-6" 5'-10"
#10	11'-8" 9'-0"	8'-6" 6'-6"
#11	13'-8" 10'-6"	9'-5"7'-3"

REINFORCING COVE (#3 - #11 B/		NCE
EXPOSURE CONDITION	MIN. COVER (U.N.O.)	PLACEMENT TOLERANCE
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"	0", +3"
EXPOSED TO EARTH OR WEATHER - #5 AND SMALLER BARS: - #6 AND LARGER BARS:	1-1/2" 2"	-1/4", +1/2" -1/4", +1/2"
NEITHER EXPOSED TO WEATHER, NOR IN CONTACT WITH GROUND - SLABS AND WALLS: - BEAMS, COLUMNS, & PIERS: (TO TIES OR STIRRUPS)	3/4" 1-1/2"	-1/4", +3/8" -1/4", +1/2"
"-" INDICATES TOLERANCE TOWAR "+" INDICATES TOLERANCE AWAY F		-

TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH 1. TOP BARS OTHER BARS MORE THAN 12" OF CONCRETE CAST BELOW THE BAR.

- 2. BAR SPACING TO BE A MINIMUM OF THREE DIAMETERS UNLESS NOTED OR SCHEDULED OTHERWISE.
- 3. APPLICABLE ONLY FOR 60 KSI STEEL AND NORMAL WEIGHT CONCRETE.
- 4. IN LIEU OF LAP SPLICING, BARS MAY BE SPLICED BY MECHANICAL MEANS WHICH DEVELOP AT LEAST 125% OF THE BAR'S SPECIFIED YIELD STRENGTH.

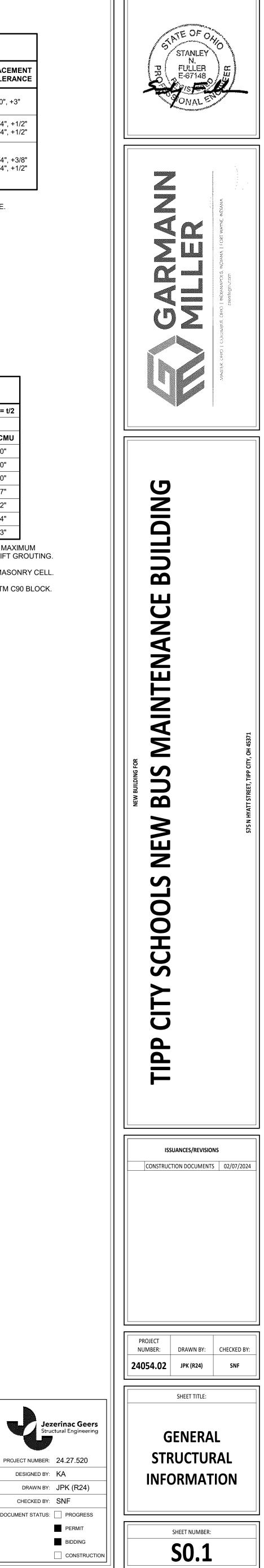


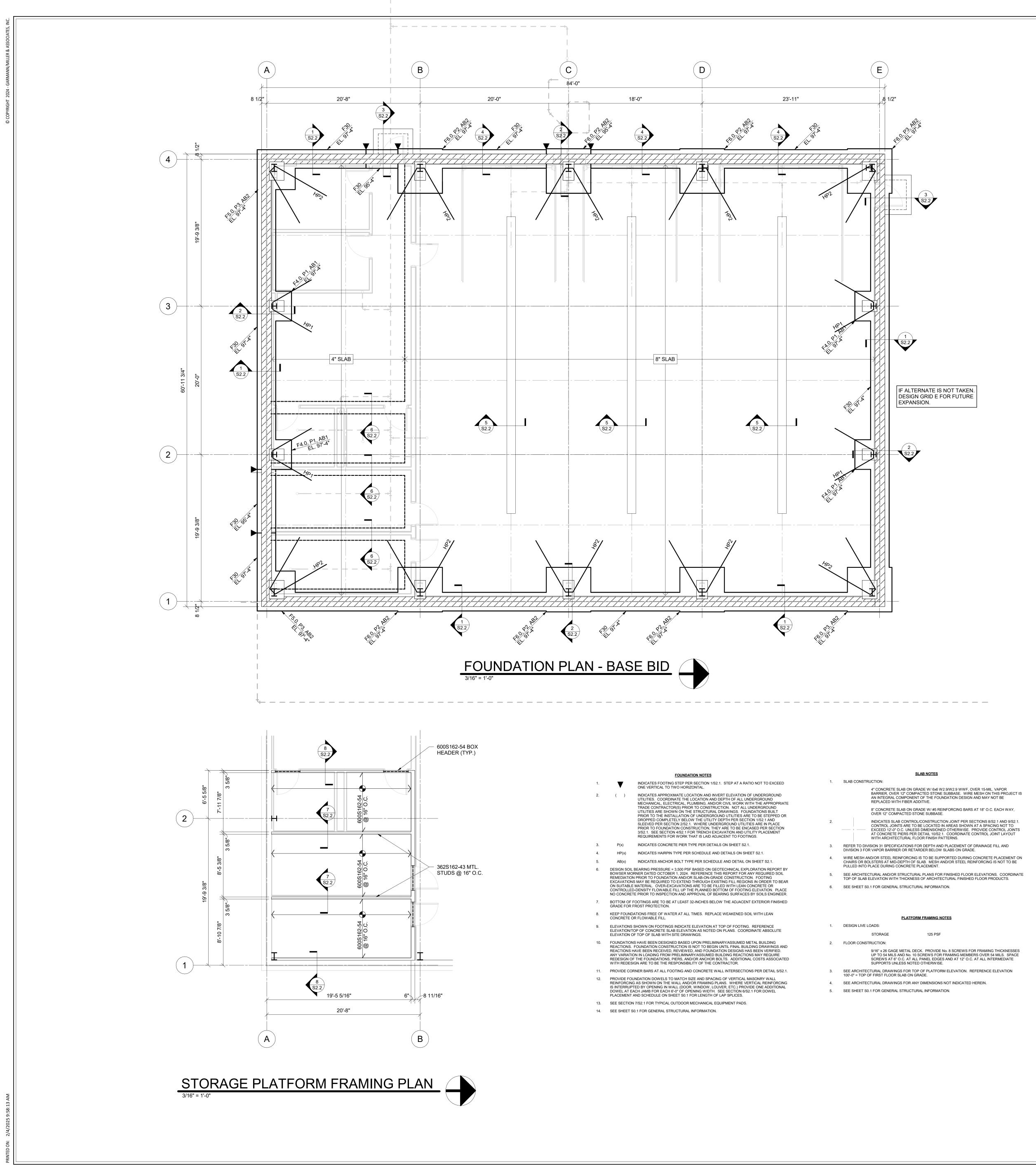
CMU REINFORCING TOLERANCE LIMITATION

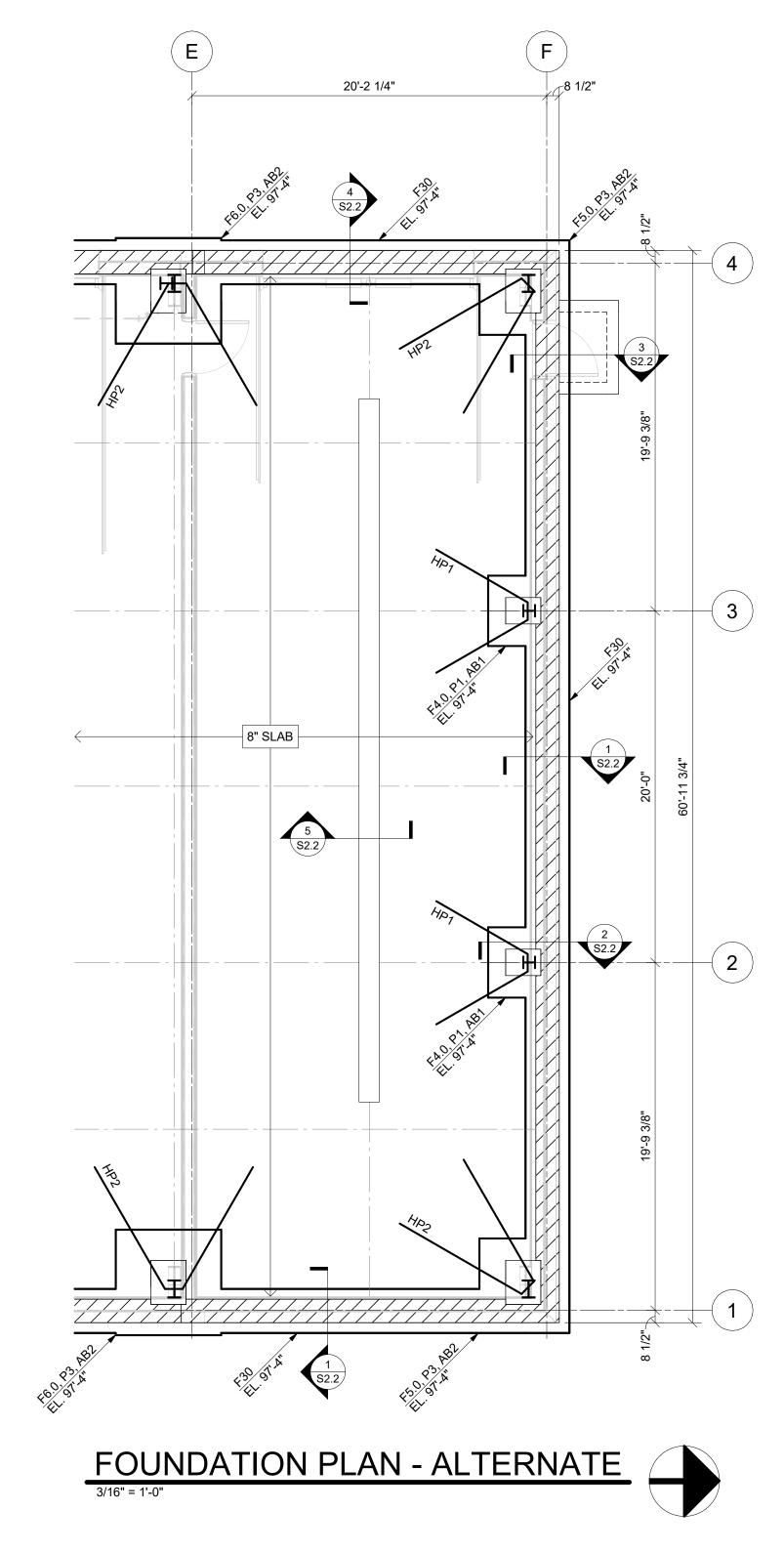
LAP SPLICE SCHEDULE FOR MASONRY REINFORCING				
f'm = 2,250 psi BAR CENTERED IN WALL d =			ALL d = t/2	
	ld (in)			
BAR #	8" CMU	10" CMU	12" CMU	14" CMU
#3	1'-0"	1'-0"	1'-0"	1'-0"
#4	1'-0"	1'-0"	1'-0"	1'-0"
#5	1'-7"	1'-3"	1'-0"	1'-0"
#6	2'-11"	2'-4"	1'-11"	1'-7"
#7	4'-1"	3'-2"	2'-7"	2'-2"
#8	(6'-3")	4'-10"	3'-11"	3'-4"
#9	-	(6'-2")	5'-0"	4'-3"

1. () INDICATES LAP LENGTH GREATER THAN MAXIMUM ALLOWABLE HEIGHT OF 5'-0" FOR LOW-LIFT GROUTING.

2. APPLICABLE ONLY FOR BARS CENTERED IN MASONRY CELL. 3. APPLICABLE ONLY FOR 60 KSI STEEL AND ASTM C90 BLOCK.

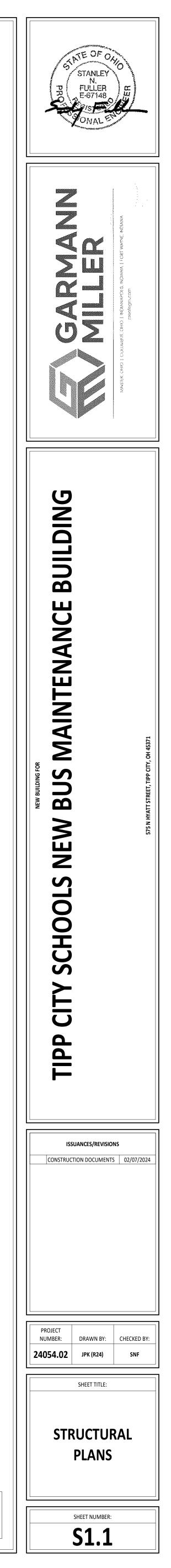






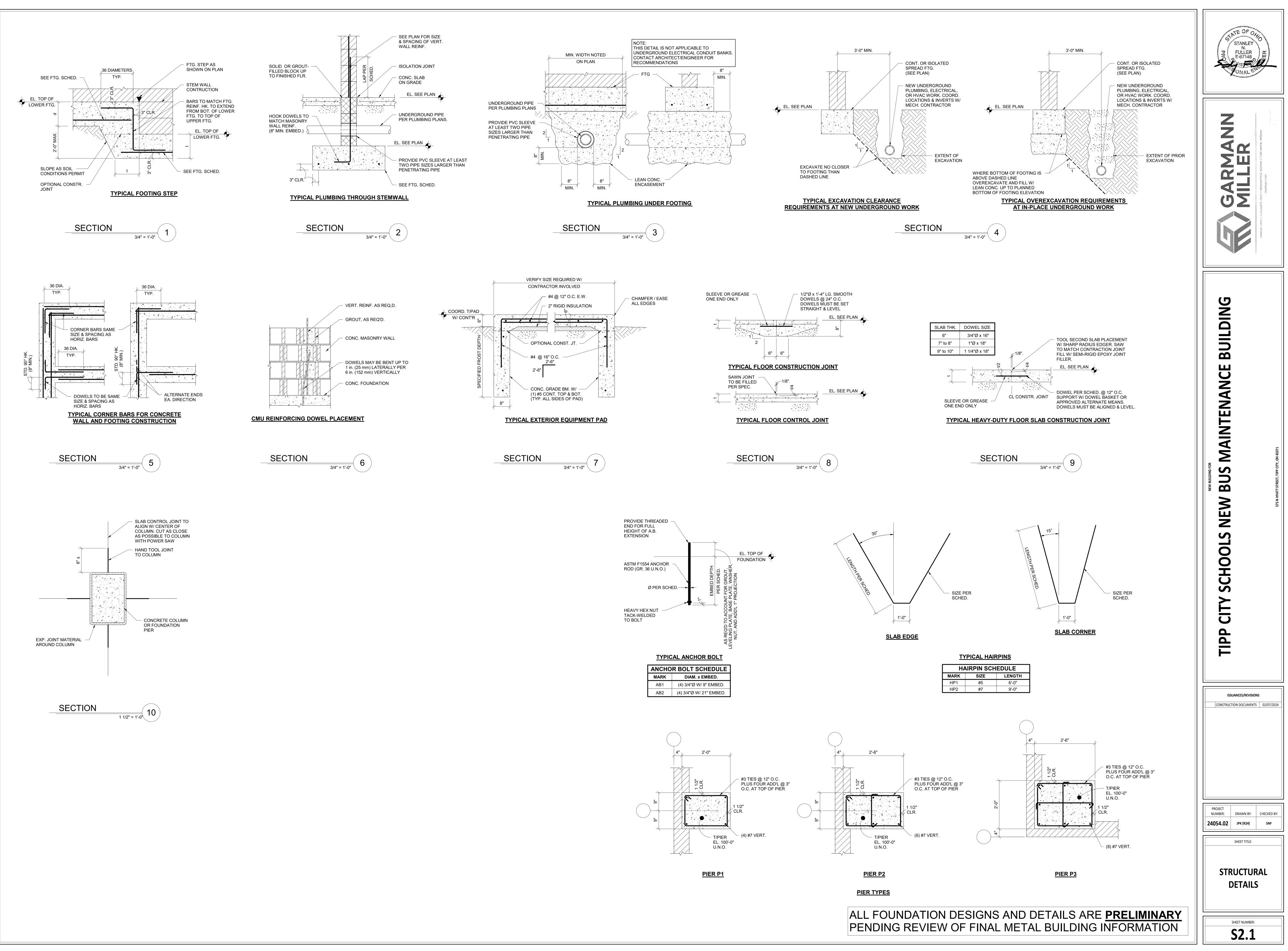
	CONT. WALL FOOTING SCHEDULE			
MARK	SIZE	REINFORCING		
F30	2'-6" x 1'-0" DP.	(3) #5 CONT. BOT.		
	SPREAD FOOTIN	G SCHEDULE		
MARK	SIZE	REINFORCING		
F4.0	4'-0" x 4'-0" x 1'-0" DP.	(4) #5 EACH WAY BOT.		
	4'-0" x 4'-0" x 1'-0" DP. 5'-0" x 5'-0" x 1'-0" DP.			

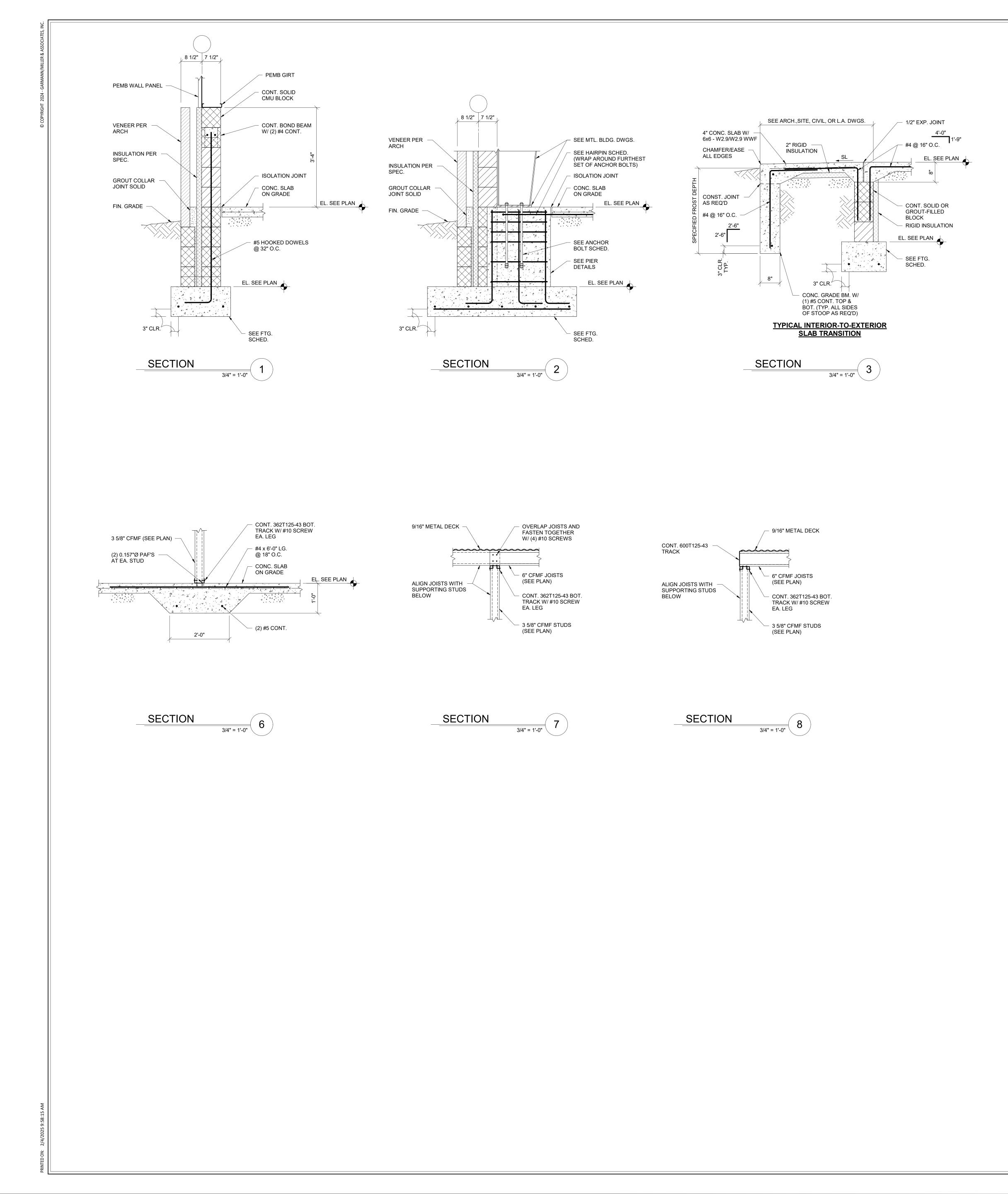
ALL FOUNDATION DESIGNS AND DETAILS ARE **PRELIMINARY** PENDING REVIEW OF FINAL METAL BUILDING INFORMATION

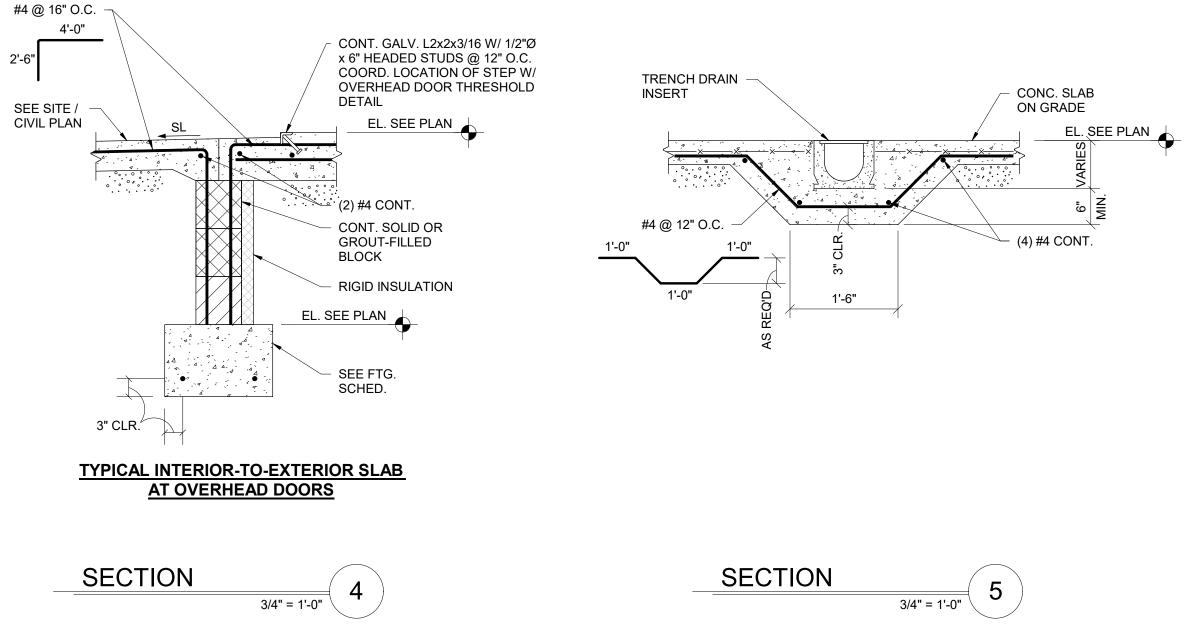




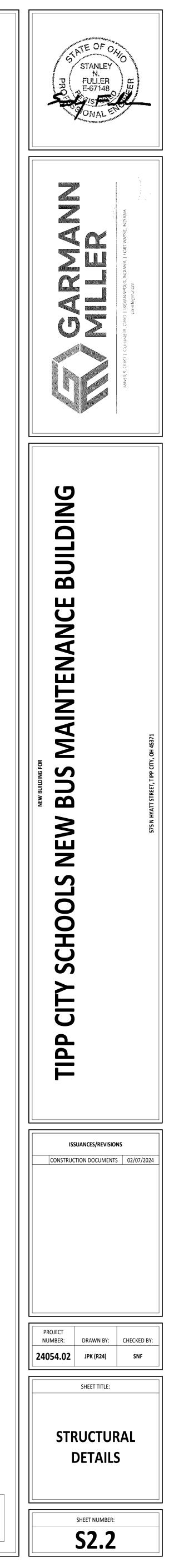








ALL FOUNDATION DESIGNS AND DETAILS ARE PRELIMINARY PENDING REVIEW OF FINAL METAL BUILDING INFORMATION





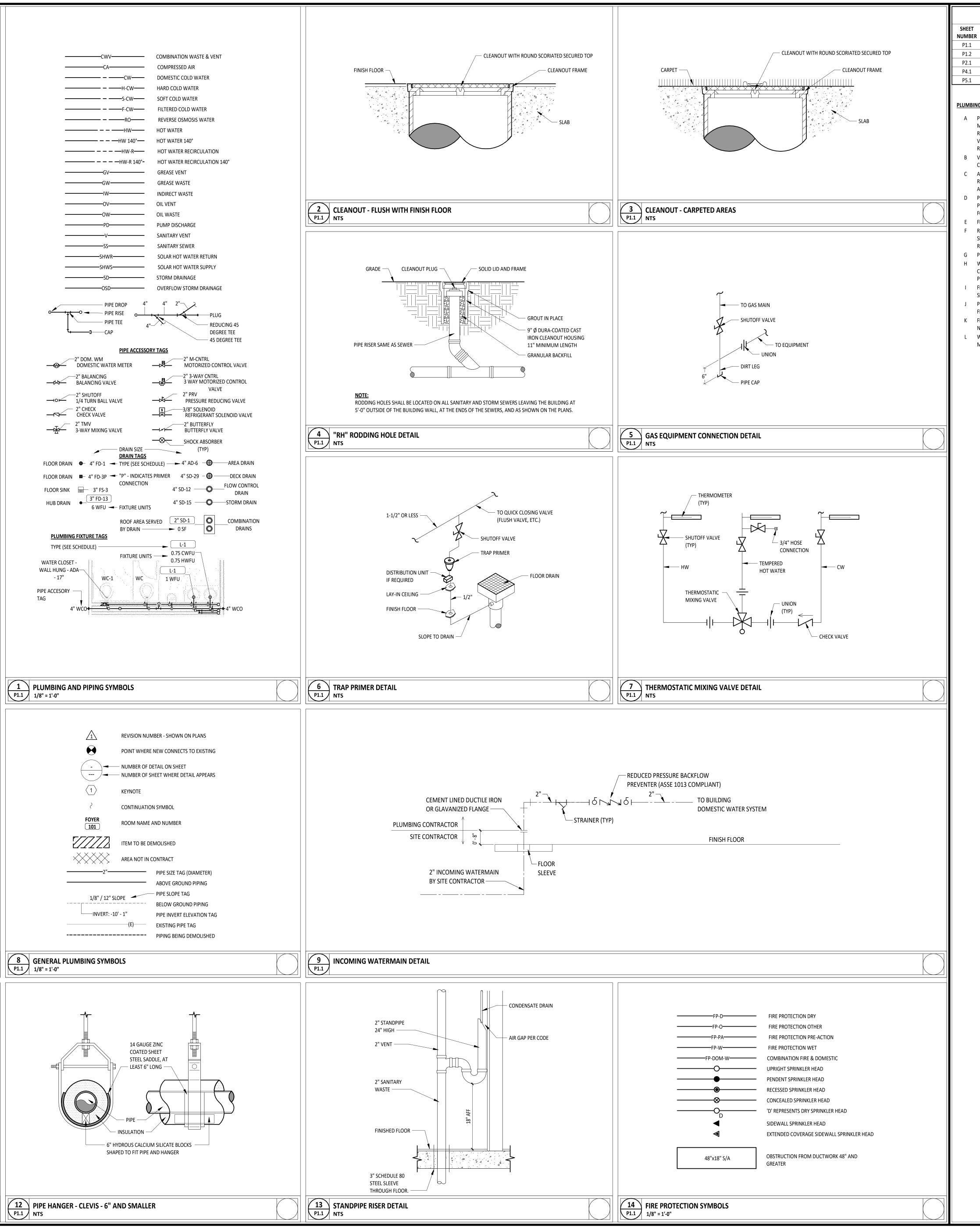
ND DIAMETER/ROUND	FCO		<u></u>	OXYGEN
	FD	FLOOR CLEAN OUT FLOOR DRAIN/FIRE DAMPER	O/A OC	OUTSIDE AIR ON CENTER
	FDV FHC	FIRE DEPARTMENT VALVE FIRE HOSE CABINET	OF OPNG	OVERFLOW OPENING
NR	FL FLEX	FLOOR FLEXIBLE	ORD	OVERFLOW ROOF DDR
ABOVE BASE	FLG FO	FLANGE FUEL OIL	P PD	PRESSURE DROP
AIR CONDITIONING	FOR FOS	FUEL OIL RETURN FUEL OIL SUPPLY	PIV PLBG	POST INDICATOR VALV
REA DRAIN	FOV	FUEL OIL VALVE	PR	PAIR
ADDITIONAL ABOVE FINISHED FLOOR	FPM FRP	FEET PER MINUTE FIBERGLASS REINFORCED PIPE	PREL PRESS	PRELIMINARY PRESSURE
NNUAL FUEL UTILIZATION	FS FT	FULL SIZE/FLOOR SINK FOOT/FEET	PRIM PRV	PRIMARY PRESSURE REDUCING V
ABOVE GROUND	FTG FTR	FOOTING FIN TUBE RADIATION	PSI PSIG	POUNDS PER SQUARE POUNDS PER SQUARE
	FUT	FUTURE	PW	GAUGE POTABLE WATER
	G	GAGE/GALIGE	PWR	POWER
	GAL	GALLON	R	DUCT RISER
CID RESITANT WASTE	GC	GENERAL CONTRACTOR	R/A	RETURN AIR
	GEN GENL	GENERATOR GENERAL	RD	RADIANT CEILING PAN ROOF DRAIN
BUILDING	GPM GR	GALLONS PER MINUTE GRADE	REC RED	RECESSED REDUCER
	GW	GREASE WASTE	REFR REQD	REFRIGERATION REQUIRED
	Н		REV	REVERSE RELATIVE HUMIDITY
RITISH THERMAL UNITS	HD	HEAD	RL/A	RELIEF AIR
IOUR	HORZ HP	HORIZONTAL HORSE POWER/HIGH PRESSURE	RPM	ROOM REVOLUTIONS PER MIN
	HTG HTR	HEATING HEATER	RW	RAIN WATER
	HW HYD	HOT WATER HYDRANT	S S/A	SUPPLY AIR
			SAN	SANITARY SCHEDULE
	ID	INDIRECT	SD	SMOKE DAMPER
	IN INL	INCH INLET	SF	SECTION SQUARE FOOT
CAST IRON	INSUL INT	INSULATION INTERIOR	SHT SIM	SHEET SIMILAR
CLEAN OUT	INV INWG	INVERT	SLV SM	SLEEVE SURFACE MOUNT
COMBINATION			SP SPEC	STANDPIPE/STATIC PR
	J JST SPC	JOIST SPACE	SPS	STATIC PRESSURE STAT
	JT	JOINT	SR	SQUARE SUCTION REFRIGERAN
	L LAB	LABORATORY	SS SSD	STAINLESS STEEL SOIL SUBDRAIN
CONTRACT/CONTRACTOR	LAT LB	LEAVING AIR TEMPERATURE POUND	STD STM	STANDARD STEAM
ENTER	LB/HR	POUNDS PER HOUR	STRUCT	STRUCTURAL SUCTION
	LP	LOW PRESSURE	SUSP	SUSPENDED
	LR	LIQUID REFRIGERANT	T	THERMOSTAT
	LWT	LEAVING WATER TEMPERATURE	ТСР	TEMPERATURE CONTR
	М		TDR	TEMPERATURE DROP TRENCH DRAIN
	M/A MAN	MIXED AIR MANUAL		TOTALLY ENCLOSED FA
DIAMETER	MATL	MATERIAL MANUALAIR VENT	TEMP TYP	TEMPERATURE TYPICAL
DIVISION	MAX	MAXIMUM	U	
	MBH	ONE THOUSAND BTU PER HOUR	UFD	UNDER FLOOR DUCT
	MCF MCW	ONE THOUSAND CUBIC FEET MAKE-UP COLD WATER	L	
	MD MECH	MOTORIZED DAMPER MECHANICAL	V	VENT
	MFR MH	MANUFACTURER MANHOLE	VAV VEL	VARIABLE AIR VOLUME VELOCITY
NTERING AIR TEMPERATURE	MIN	MOTORIZED BYPASS DAMPER	VENT VERT	VENTILATION VERTICAL
	MTR	MOTOR	VOL VTR	VOLUME VENT THROUGH ROOF
		IVIAKE-UP/AIK		
QUAL	N N	NECK	W	WASTE
LECTRIC WATER COOLER	NC	NOISE CRITERIA/NORMALLY CLOSED	WCO	WET BULB WALL CLEAN OUT
EMPERATURE	NIC NO	NOT IN CONTRACT NUMBER/NORMALLY OPEN	WH	WALL HYDRANT
XPANSION JOINT	NOM	NOMINAL		
	ANNUAL FUEL UTILIZATION EFFICIENCY ABOVE GROUND ALTERNATE ACCESS PANEL APPROXIMATE ACCESS PANEL APPROXIMATE ACCID RESISTANT VENT ACID RESISTANT VENT ACID RESISTANT VENT ACID RESISTANT WASTE BELOW FINISHED FLOOR BUILDING BELOW ATTISH THERMAL UNITS BRITISH THERMAL UNITS PER AOUR BETWEEN CONSTANT FLOW CONTROL ALVE CONSTANT FLOW CONTROL ALVE CONSTRUCTION CONTRACT/CONTINUATION CONTRACT/CONTINUATION CONTRACT/CONTINUATION CONTRACT/CONTRACTOR CONSTRUCTION CONTINUE/CONTINUATION CONTRACT/CONTRACTOR CONSTRUCTION CONTINUE/CONTINUATION CONTINUE/CONTINUATION CONTRACT/CONTRACTOR CONSTRUCTION CONTINUE/CONTINUATION CONTRACT/CONTRACTOR CONSTRUCTION CONTRACT/CONTRACTOR CONSTRUCTION CONTINUE/CONTINUATION CONTRACT/CONTRACTOR CONSTRUCTION CONTRACT/CONTRACTOR CONSTRUCTION CONTRACT/CONTRACTOR CONSTRUCTION CONTRACT/CONTRACTOR CONSTRUCTION CONTRACT/CONTRACTOR CONSTRUCTION CONTRACT/CONTRACTOR CONSTRUCTION CONTRACT/CONTRACTOR CONSTRUCTION CONTRACT/CONTRACTOR CONSTRUCTION CONTRACT/CONTRACTOR CONSTRUCTION CONTRACT/CONTRACTOR CONSTRUCTION CONTRACT/CONTRACTOR CONSTRUCTION CONTRACT/CONTRACTOR CONSTRUCTION CONTRACT/CONTRACTOR CONSTRUCTION CONTRACT/CONTRACTOR CONN CONTRACT/CONTRACTOR CONSTRUCTION CONSTRUCTION CONTRACT/CONTRACTOR CONSTRUCTION CONTRACT/CONTRACTOR CONTINUE/CONTINUATION CONTRACT/CONTRACTOR CONTRACT/CONTRACTOR CONTRACT/CONTRACTOR CONTRA	INNUAL FUEL UTILIZATION FFICIENCY SECUENCY	NNUAL PLU UTILIZATION FTCELUCU BOYE GOUND LITENATE GEOLOCICSE PARLE PROXIMATE GEOLOCICSES PARLE PROXIMATE GEOLOCICSES PARLE PROXIMATE GEOLOCICSES PARLE PROXIMATE GEOLOCICSES PARLE PROXIMATE GEOLOCICSES PARLE PROXIMATE GEOLOCICSES PARLE GEOLOCICSES PARLE CON FINISHED FLOOR GEULON FLOOR HT HEINISH THERMAL UNITS FLOOR GEULON FLOOR GEULON FLOOR GEULON FLOOR GEULON FLOOR GEULON FLOOR GEULON FLOOR GEULON FLOOR HT HEINISH THERMAL UNITS HEINISH THERMAL HEINISH THERMAL UNITS HILL HEAT HEINISH THERMAL HILL HEAT HEINISH THERMAL HILL HEAT HEINISH THERMAL HILL HEAT HEINISH THERMAL HILL HEAT HILL HEAT	NMUALE PLU UTUIZATION FTG FOOT/FET FG FOOT

TAG

11 PLUMBING PIPE HANGER DETAIL NTS

SILICATE BLOCKS SHAPED

TO FIT PIPE AND HANGER



PLUMBING SHEET INDEX

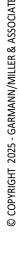
SHEET NAME

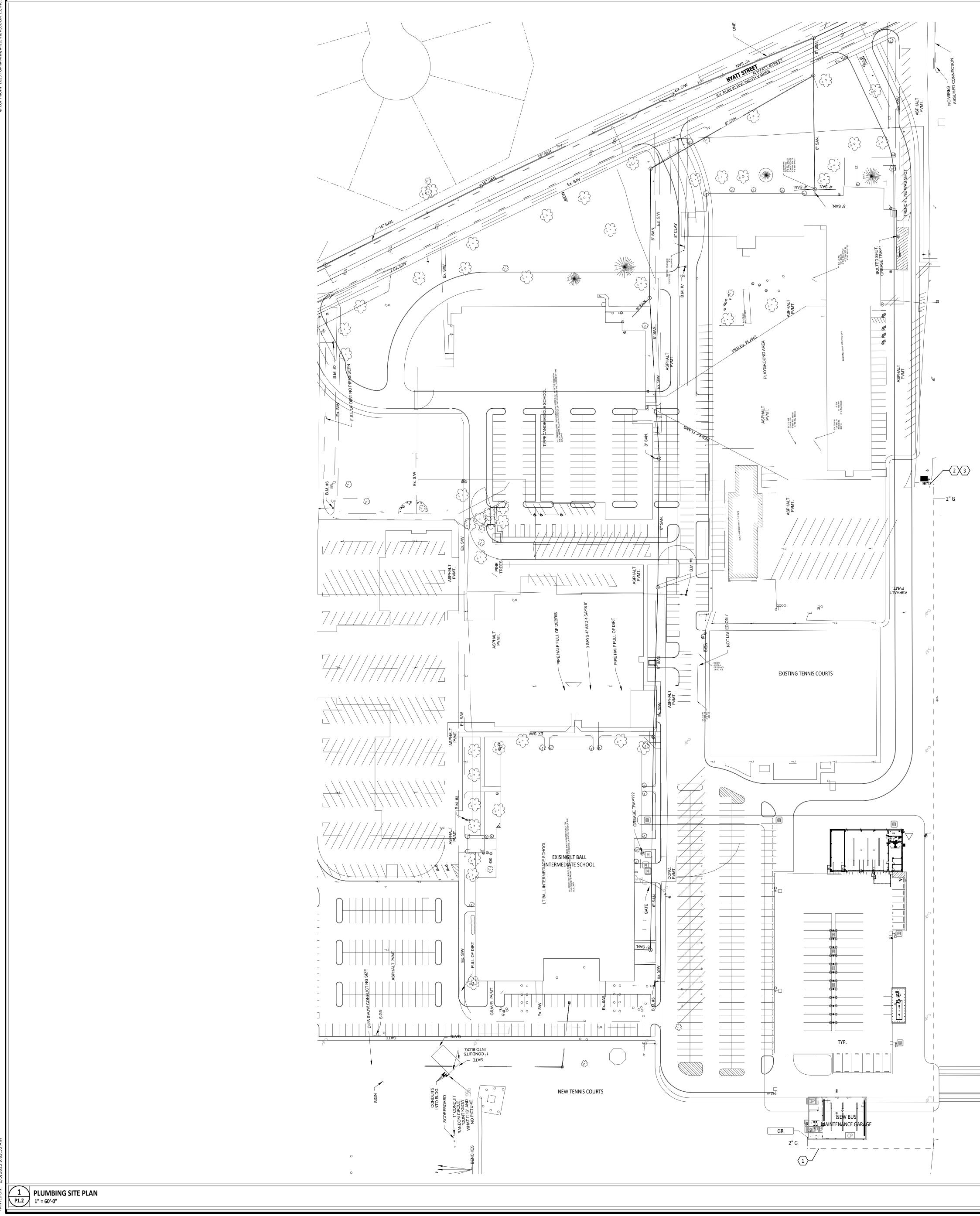
P1.1 GENERAL NOTES, ABBREVIATIONS, LEGENDS AND SHEET INDEX P1.2 SITE PLUMBING PLAN P2.1 PLUMBING PLAN P4.1 PLUMBING SCHEDULES AND PLUMBING ENLARGEMENT P5.1 SANITARY ISOMETRIC AND DETAILS

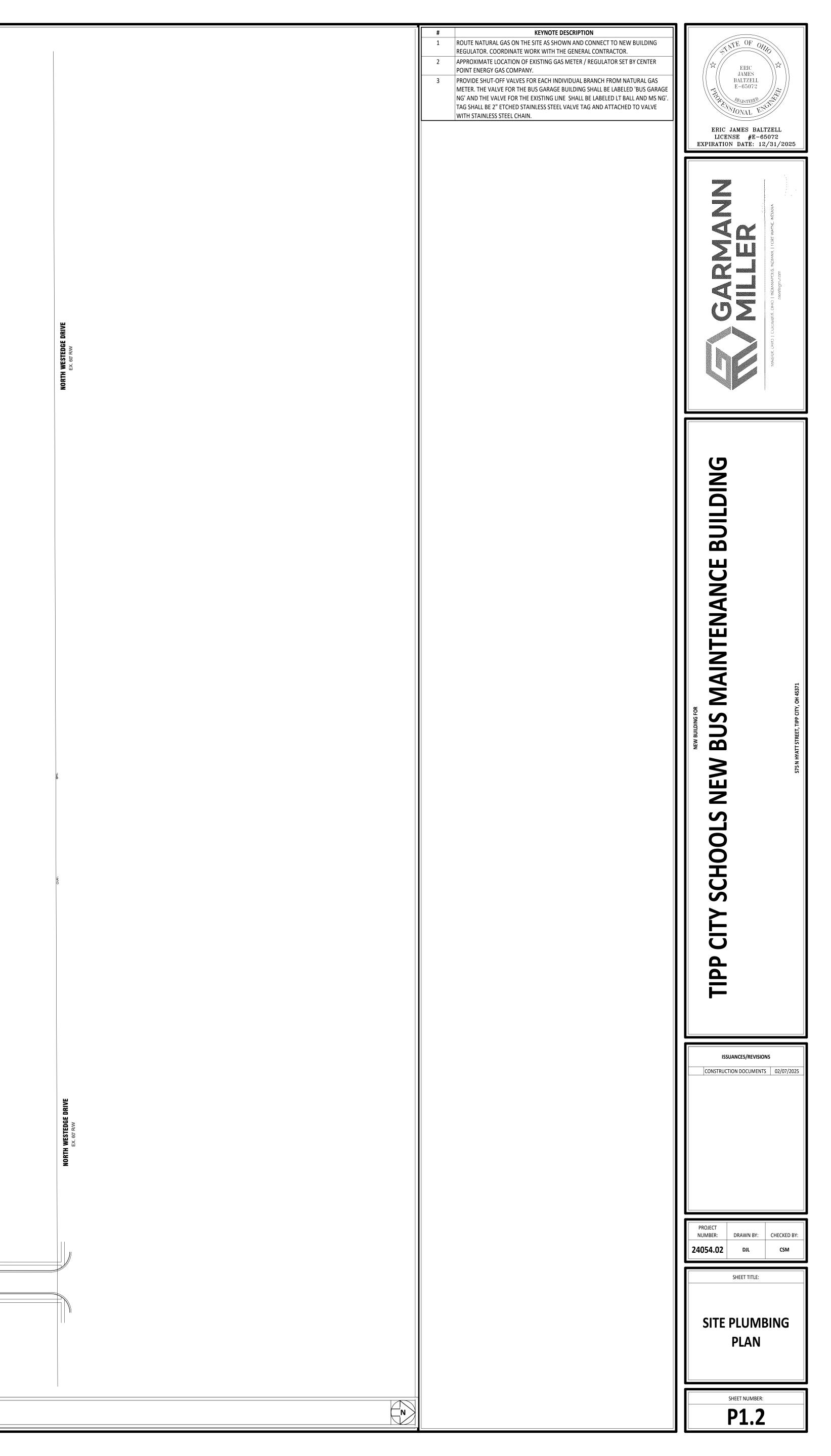
PLUMBING GENERAL NOTES

- A PROVIDE TRAP PRIMERS FOR FLOOR DRAINS SERVING MECHANICAL ROOMS. MECHANICAL DECKS, EMERGENCY SHOWERS, KITCHEN FLOOR DRAINS, AND AS REQUIRED BY CODE. SUPPLY NEAREST COLD WATER PIPING CONNECTED TO A FLUSH VALVE OR SOLENOID VALVE. SUPPLY PIPING SHALL BE 1/2" VALVED COLD WATER LINE. REFERENCE DETAIL FOR ADDITIONAL INFORMATION.
- VERIFY INVERT ELEVATIONS ON UNDERGROUND SANITARY AND STORM PIPING. COORDINATE DEPTHS WITH THE BUILDING CONSTRUCTION AND ALL OTHER UTILITIES. ALL FINAL GAS CONNECTIONS SHALL BE MADE WITH FLEXIBLE STAINLESS STEEL PIPE OR
- RIDGED PIPE WITH UNION, SHUT-OFF VALVE AND DIRT LEG. REFERENCE DETAIL FOR ADDITIONAL INFORMATION.
- PITCH UNDERFLOOR SANITARY WASTE AND STORM PIPING 3" AND GREATER AT 1/8" PER FOOT, UNLESS NOTED OTHERWISE. PITCH ALL OTHER WASTE PIPING AT 1/4" PER FOOT UNLESS OTHERWISE NOTED.
- FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION. ROUTE DOMESTIC WATER, FIRE PROTECTION, SANITARY SEWER, AND STORM SEWER SERVICES TO SITE UTILITIES 5'-0" FROM BUILDING UNLESS NOTED OTHERWISE. REFERERENCE CIVIL PLANS.
- G PROVIDE CLEANOUT IN ACCESSIBLE LOCATION AT THE BASE OF ALL PLUMBING RISERS. H WHERE FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK.
- FIRE SEAL AROUND PIPING PENETRATIONS OF FIRE RATED WALLS. REFERERNCE SPECIFICATION. PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES THROUGH FOUNDATIONS,
- FLOORS, WALLS, AND ROOF. K FIELD VERIFY ALL NEW WATER, WASTE, AND VENT PIPING CONNECTIONS AND PROVIDE
- NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS. WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" MINIMUM.

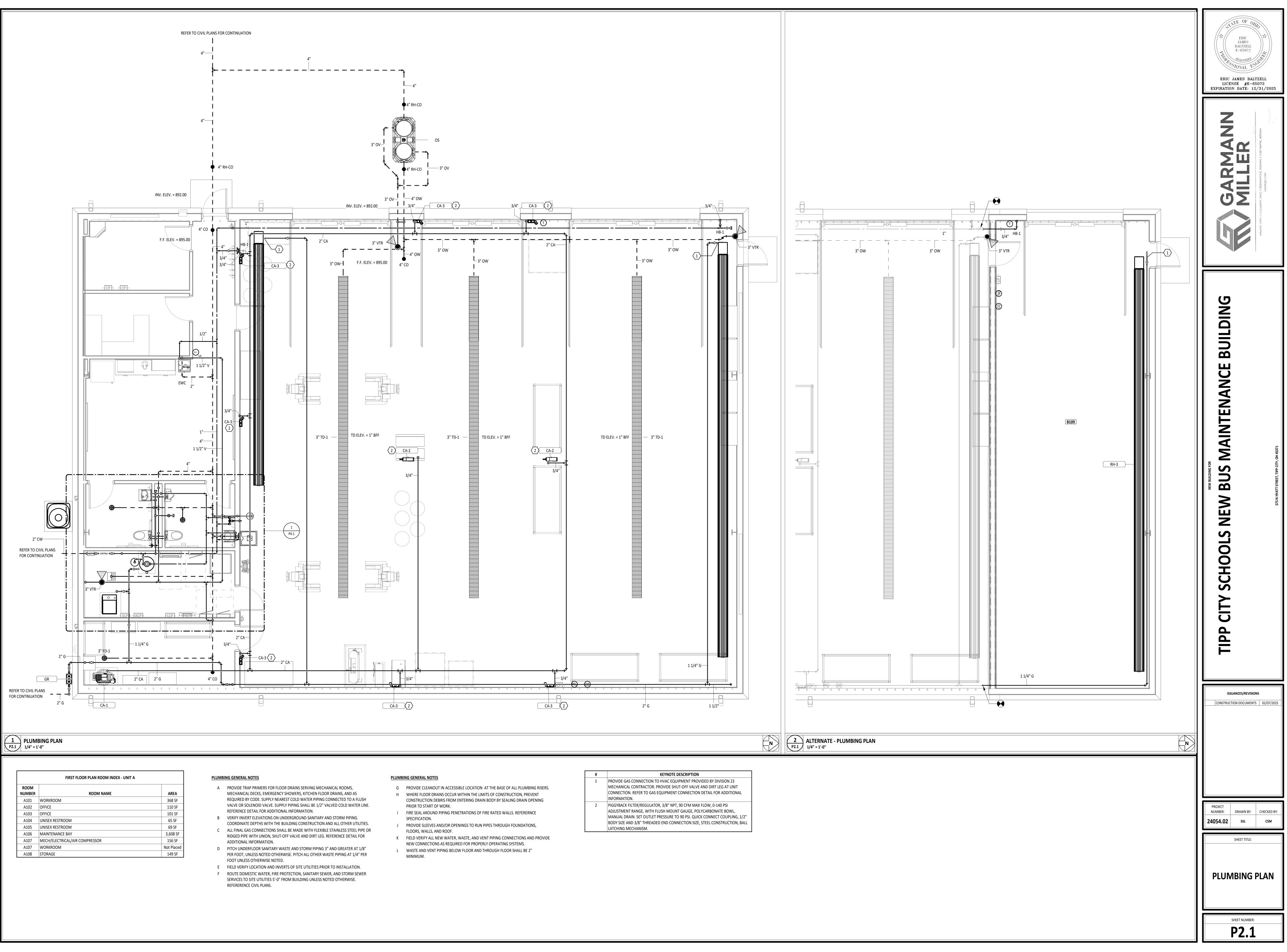


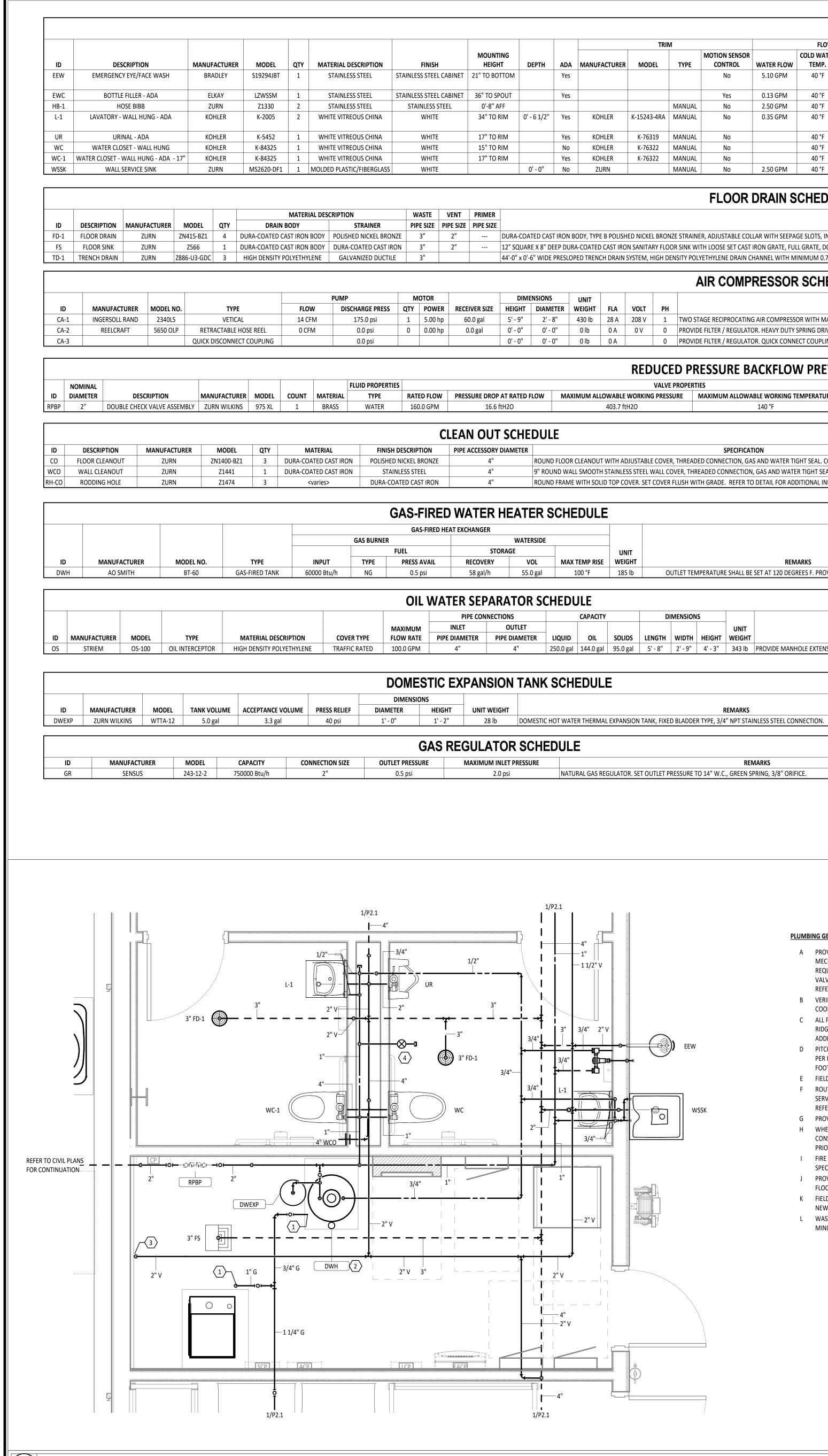












1ENLARGED PLUMBING PLANP4.11/2" = 1'-0"

									DOMES	TIC FIX		CHED	ULE				
			Т	RIM			1	IXTURE			FIXTURE	WASTE	INDIRECT	VENT	COLD WATER	HOT WATER	
ADA	MANUFACT	URER	MODEL	ТҮРЕ	MOTION SENSOR CONTROL	WATER FLOW	COLD WATER TEMP.	HOT WATER TEMP.	MAX. MIXED WATER TEMP.	VOL. PER FLUSH	MIN. VOL. PER FLUSH	ROUGH-IN PIPE SIZE	WASTE PIPE SIZE	PIPE SIZE	ROUGH-IN PIPE SIZE	ROUGH-IN PIPE SIZE	
Yes					No	5.10 GPM	40 °F		40 °F			2″		1-1/2"	1″		BARRI BRASS
Yes					Yes	0.13 GPM	40 °F		40 °F			2″		1-1/2"	1/2"		SINGL
				MANUAL	No	2.50 GPM	40 °F		40 °F						1/2"		INTER
Yes	KOHLEF	R K-	-15243-4R	A MANUAL	No	0.35 GPM	40 °F	120 °F	105 °F				2″		1/2"	1/2"	LAVAT VALVE
Yes	KOHLEF	२	K-76319	MANUAL	No		40 °F		40 °F	0.5 gal	0.5 gal	2″		1-1/2"	3/4"		WALL
No	KOHLEF		K-76322	MANUAL	No		40 °F		40 °F	1.6 gal	1.6 gal	4"		2″	1"		WATE
Yes No	KOHLEF ZURN	2	K-76322	MANUAL MANUAL	No No	2.50 GPM	40 °F 40 °F	120 °F	40 °F 105 °F	1.6 gal	1.6 gal	4"	3"	2″	1" 3/4"	3/4″	WATE WALL
							I					I					
					FLOOR	DRAIN S	CHEDU	LE									
											SPE	CIFICATION					
					ER, ADJUSTABLE COL										00050		
					ITH LOOSE SET CAST											CLEANING SHOVE	LS. PR(
			, -						,								
					AIR COMP	RESSOR		DULE									
TER	UNIT WEIGHT FI			PH										REI	MARKS		
8"	430 lb 28	3 A 20	08 V		TAGE RECIPROCATIN	G AIR COMPRESS	OR WITH MANU	JAL DRAIN VAL	/E TO NEAREST FL	OOR DRAIN. I	REFER TO DETAI	L FOR ADDITI	ONAL INFOR	MATION.			
0"			0 V		DE FILTER / REGULAT											CT COUPLING FOR	t HOSE
0"	0 lb 0	A			DE FILTER / REGULAT	JR. QUICK CONN	ECT COUPLING,	1/2" BODY SIZE	AND 3/8" THREA	DED END CO	NNECTION SIZE,	STEEL CONST	RUCTION, B	ALL LATCH			
		F	REDU		RESSURE B	ACKFLO	N PREV	ENTER S	SCHEDUL	E							
MA)	40 ALLOW	3.7 ftH20		ESSURE	MAXIMUM ALLOWA	140 °F	EMPERATURE	HYDRO	807.4 ftH20	SSURE	ASSE 1013 CER	TIFIED, REDU	CED PRESSU	RE BACKFL	.OW PREVENTER V	VITH FULL PORT O	UARTE
E																	
					SPECIFICA												
					ED CONNECTION, GA			ER TO BE FLUSH	ED WITH FINISHE	D FLOOR.							
					TH GRADE. REFER TO	-		RMATION.									
CHI	EDULE																
		UNIT															
MAX	TEMP RISE	WEIGHT	r			REN	IARKS										
	100 °F	185 lb		OUTLET TEN	1PERATURE SHALL BE	SET AT 120 DEG	REES F. PROVID	E DRAIN PAN. P	ROVIDE 4" VENT K	KIT.							
HED	ULE																
	CAPACITY			DIMENSION	S												
					UNIT												
LIQUID 50.0 ga	-	SOLIDS 95.0 gal	LENGT 5' - 8'		HEIGHT WEIGHT 4' - 3" 343 lb			REMARKS	VETER MANHOLE								
.50.0 ga	ייי אַנאַ אָדי אַנאַן אַנאַן	55.0 gai	<u> </u>	2-3	- J J4J IJ												
SCH	EDULE																
OT			NI TANIC -														
UI WA	EK IHERMAL E	XPANSIO	n iank, f	IXED BLADDE	R TYPE, 3/4" NPT STA	INLESS STEEL CO	NINECTION.										

PLUMBING GENERAL NOTES

MINIMUM.

REMARKS

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#	
1	PROVIDE GAS CONNEC
	MECHANICAL CONTRAC
	CONNECTION. REFER TO
	INFORMATION.
2	3-1/2" HOUSEKEEPING
3	ROUTE SANITARY VENT
	ROUTE TIGHT TO STRU
	CONTRACTOR.
4	EXTEND 3/4" COLD WA
	ARRESTOR ABOVE CEIL

PECIFICATI	ON

ARRIER FREE, RECESSED, WALL MOUNTED, EYE/FACE WASH WITH SWING-DOWN STAINLESS STEEL DRAIN PAN. UNIT CONSTRUCTION SHALL BE WELDED 16 GUAGE TYPE 304 STAINLESS STEEL WITH #4 BRUSHED SATIN FINISH. UNIT SHALL INCLUDE CHROME-PLATED RASS EYE/FACE WASH SUPPLY FITTINGS. INCLUDE ANSI COMPLIANT SIGN.

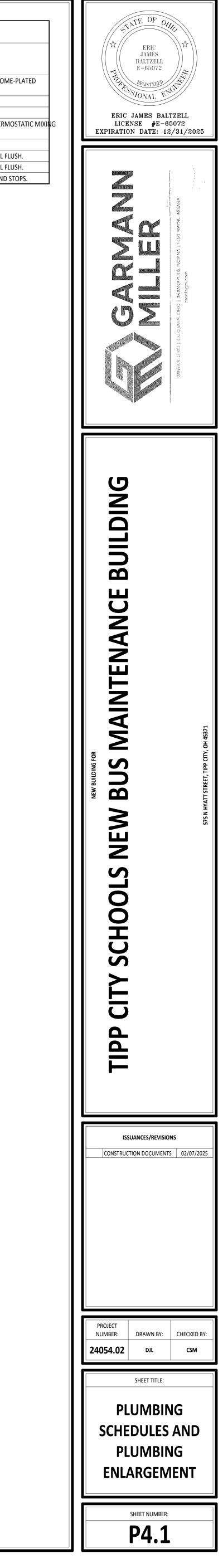
NGLE LEVEL WALL HUNG BOTTLE FILLER. THE UNIT SHALL BE COMPLETE WITH CABINET, MOUNTING FRAME, 120 VOLT, 60 CYCLE, SINGLE PHASE POWER CONNECTION, FULLY AUTOMATIC, COMPLETE AND READY TO OPERATE. ITERIOR HOSE BIBB WITH VACUUM BREAKER, 3/4" HOSE THREAD OUTLET, LOCK SHIELD CAP, AND REMOVABLE "TEE" HANDLE. PROVIDE SHUTOFF VALVE IN COLD WATER SUPPLY AHEAD OF HOSE BIBB.

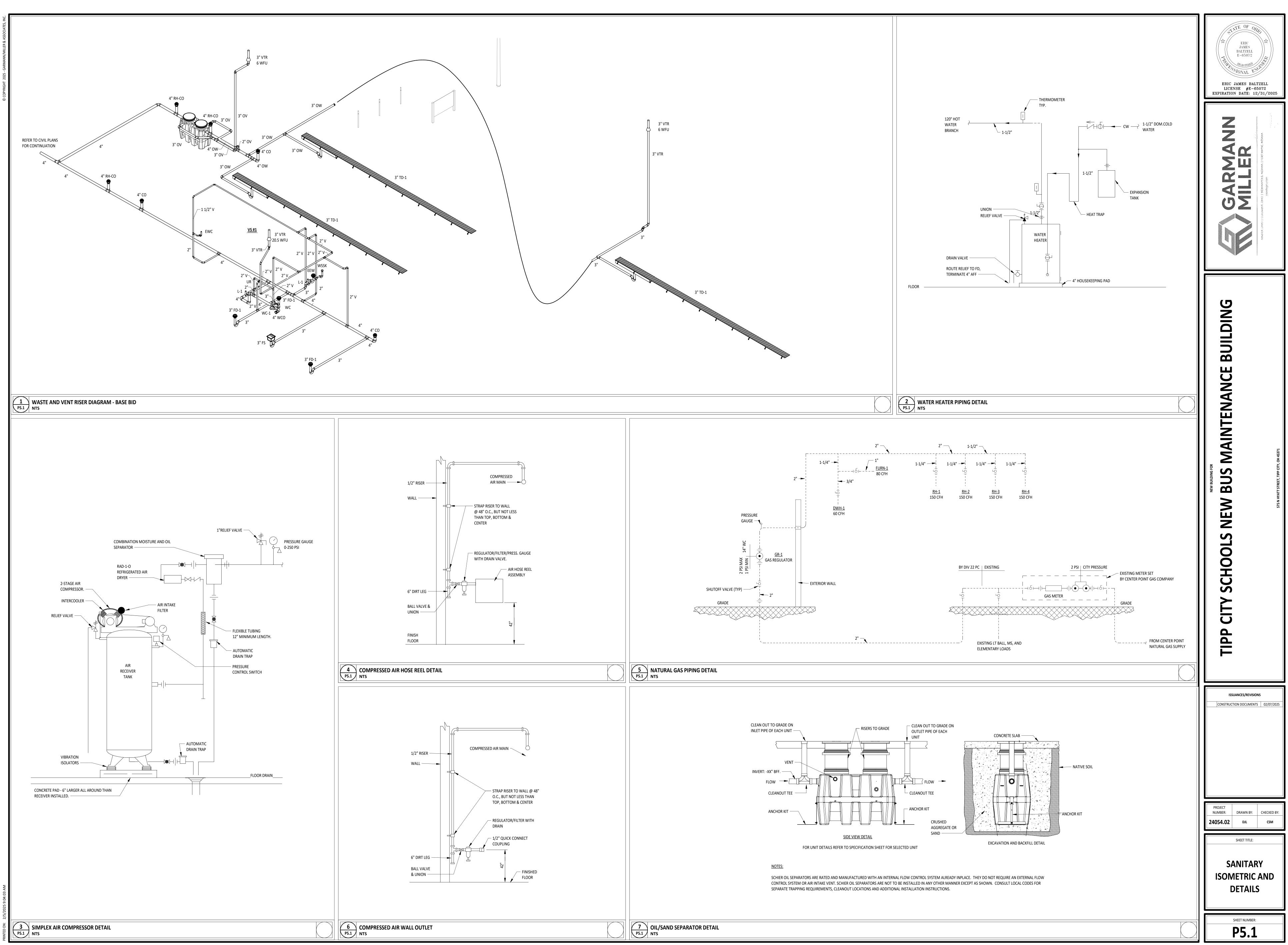
AVATORY: WALL MOUNTED LAVATORY, CONCEALED ARM SUPPORTS, REAR OVERFLOW, FAUCET LEDGE, 4" CENTERS, GRID STRAINER. FAUCET: DECK MOUNTED MANUAL FAUCET WITH VANDAL RESISTANT SPRAY, EXTERNAL ASSE 1070 COMPLIANT THERMOSTATIC MIXI ALVE, GRID DRAIN, ANGLE STOPS AND SUPPLIES. INSULATE WATER AND AND WASTE WITH ADA INSULATION KIT. MOUNT AT ADA COMPLIANT HEIGHT.

ALL HUNG URINAL WITH WASHOUT ACTION, TOP SPUD, SIZE 18" WITH INTEGRAL EXTENDED SHIELDS SUPPORTED BY THROUGH GOING BOLTS AND C.P. NUTS. SOLAR POWERED SENSOR ACTIVATED FLUSHOMETER. ATER CLOSET: ELONGATED WALL HUNG WATER CLOSET, CARRIER, 1-1/2" TOP SPUD, SIPHON ACTION JETTED BOWL, WITH SELF SUSTAINING ELONGATED OPEN FRONT SEAT. FLUSH VALVE: EXPOSED, QUIET CLOG RESISTANT, DIAPHARM-TYPE, MANUAL FLUSH. ATER CLOSET: ELONGATED WALL HUNG WATER CLOSET, CARRIER, 1-1/2" TOP SPUD, SIPHON ACTION JETTED BOWL, WITH SELF SUSTAINING ELONGATED OPEN FRONT SEAT. FLUSH VALVE: EXPOSED, QUIET CLOG RESISTANT, DIAPHARM-TYPE, MANUAL FLUSH. ALL SERVICE SINK: 26" X 22" SINGLE COMPARTEMENT SINK, MUTLI-PURPOSE SINK, WALL MOUNTED, PROVIDE WITH FILLER PANEL WITH SINK. FAUCET: DUAL HANDLE , 6" SWING SPOUT, 4" CENTERSET, COVERPLATE, P-TRAP, TAILPIECES, SUPPLIES, AND STOPS.

DVIDE Z887 CATCH BASIN. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO SPECIFICATIONS.
END WITH 1/2" BODY AND 1/2" THREADED CONNECTION.
REMARKS
R TURN SHUT OFF VALVES. MOUNT 3'-0" AFF. PROVIDE AN AIR GAP WITH RELIEF PIPED TO NEAREST FLOOR DRAIN.

KEYNOTE DESCRIPTION
I TO HVAC EQUIPMENT PROVIDED BY DIVISION 23
R. PROVIDE SHUT-OFF VALVE AND DIRT LEG AT UNIT
AS EQUIPMENT CONNECTION DETAIL FOR ADDITIONAL
BY DIVISION 22 PLUMBING CONTRACTOR.
ING UP TO MEZZANINE ABOVE AND THROUGH THE ROOF RE. COORDINATE EXACT LOCATION WITH GENERAL
LINE UP TO ABOVE CEILING AND INSTALL WATER HAMMI FOR MAINTENANCE ACCESS.

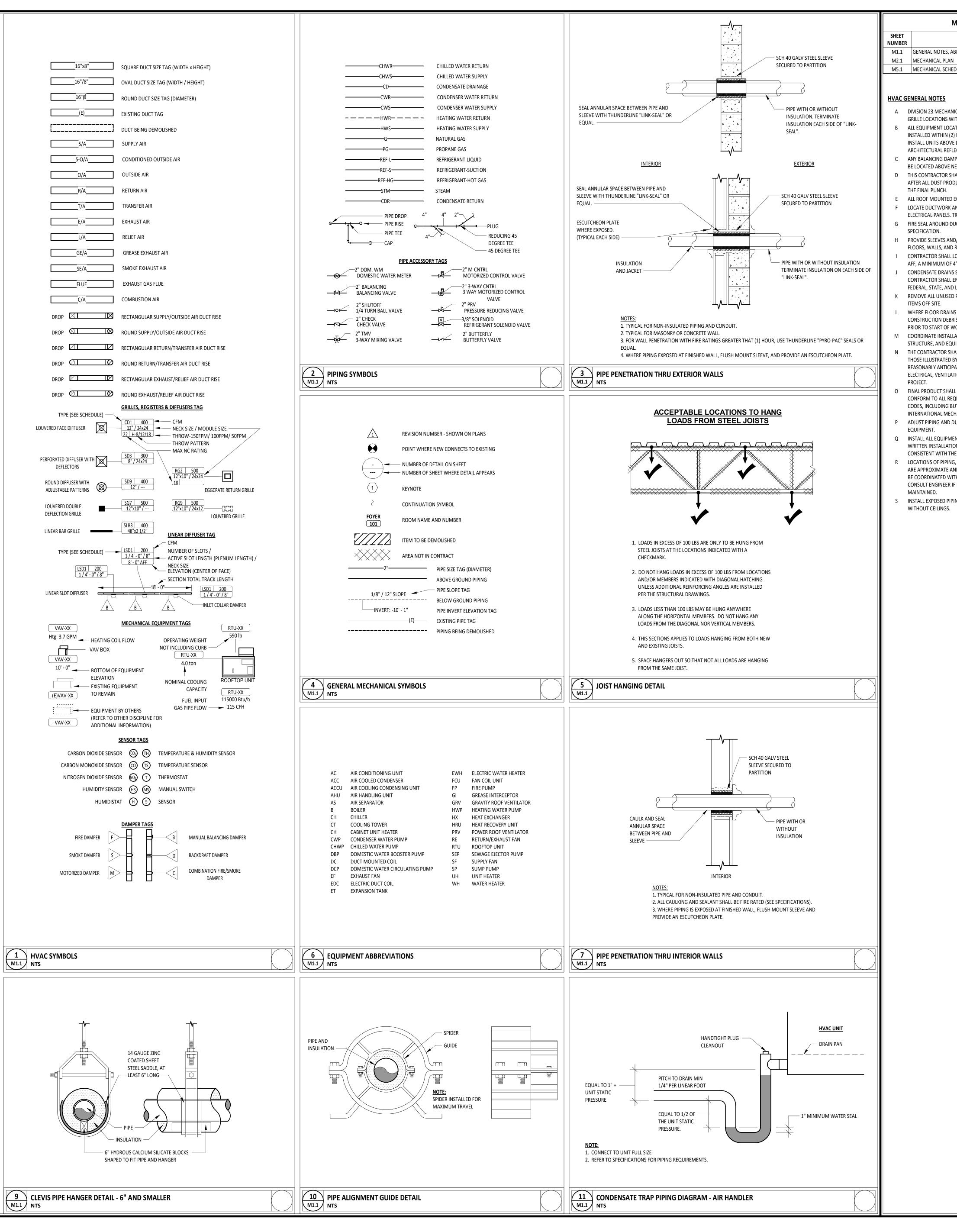




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	ABBREVIATIONS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW.	F FCO FD	DEGREES FAHRENHEIT FLOOR CLEAN OUT FLOOR DRAIN/FIRE DAMPER	0 0/A 0C	OXYGEN OUTSIDE AIR ON CENTER
HARACTE		FD FDV FHC	FIRE DEPARTMENT VALVE	OF OPNG	OVERFLOW OPENING
	AND DIAMETER/ROUND	FL FLEX	FLOOR FLEXIBLE	ORD	OVERFLOW ROOF DDRAIN
		FLG FO	FLANGE FUEL OIL	P PD	PRESSURE DROP
	AIR ABOVE BASE	FOR FOS	FUEL OIL RETURN FUEL OIL SUPPLY	PIV PLBG	POST INDICATOR VALVE PLUMBING
V	ABOVE AIR CONDITIONING	FOV FPM	FUEL OIL VALVE FEET PER MINUTE	PR PREL	PAIR PRELIMINARY
SUS	ACOUSTICAL AREA DRAIN	FRP FS	FIBERGLASS REINFORCED PIPE FULL SIZE/FLOOR SINK	PRESS PRIM	PRESSURE PRIMARY
D DL	ADDENDUM ADDITIONAL	FT FTG	FOOT/FEET FOOTING	PRV PSI	PRESSURE REDUCING VAL POUNDS PER SQUARE INCH
: JE	ABOVE FINISHED FLOOR ANNUAL FUEL UTILIZATION EFFICIENCY	FTR FUT	FIN TUBE RADIATION FUTURE	PSIG PW	POUNDS PER SQUARE INCH GAUGE POTABLE WATER
-	ABOVE GROUND ALTERNATE	G		PWR	POWER
PROX	ACCESS PANEL APPROXIMATE ADDIVITED ADDIVITICADADADADADADADADADADADADADADADADADADAD	GA GAL	GAGE/GAUGE GALLON	R R	DUCT RISER
CH TO	ARCHITECT/ARCHITECTURAL AUTOMATIC	GALV GC	GALVANIZED GENERAL CONTRACTOR	R/A RCP	RETURN AIR RADIANT CEILING PANEL
1	ACID RESISTANT VENT ACID RESITANT WASTE	GEN GENL	GENERATOR GENERAL	RD REC	ROOF DRAIN RECESSED
-	BELOW FINISHED FLOOR	GPM GR	GALLONS PER MINUTE GRADE	RED REFR	REDUCER REFRIGERATION
: DG W	BUILDING BELOW	GW	GREASE WASTE	REQD REV	REQUIRED REVERSE
T	BY OTHER BOTTOM	H HB	HOSE BIB	RH RL/A	RELATIVE HUMIDITY RELIEF AIR
n MT J	BASEMENT BRITISH THERMAL UNITS	HD HORZ	HEAD HORIZONTAL	RM RPM	ROOM REVOLUTIONS PER MINUTE
JH VN	BRITISH THERMAL UNITS PER HOUR	HP HTG	HORSE POWER/HIGH PRESSURE HEATING	RW	RAIN WATER
	BETWEEN	HTR HW	HEATER HOT WATER	S S/A	SUPPLY AIR
)	CAPACITY CATCH BASIN	HYD	HYDRANT	SAN SCHED	SANITARY SCHEDULE
N XV	COUNTER CLOCKWISE CONSTANT FLOW CONTROL VALVE	I ID		SD SECT	SMOKE DAMPER SECTION
.v /l //	CUBIC FEET PER MINUTE CIRCULATING HOT WATER	IN INL	INCH INLET	SF SHT	SQUARE FOOT SHEET
// ì	CIRCULATING HOT WATER CAST IRON CEILING/COOLING	INSUL INT	INSULATION INTERIOR	SIM SLV	SIMILAR SLEEVE
<u> </u>	CLEAN OUT COLUMN	INV INWG	INVERT INCHES WATER GAUGE	SM SP	SURFACE MOUNT STANDPIPE/STATIC PRESSURE SDECIFICATION
- MB NC	COLUMIN COMBINATION CONCRETE		JOIST SPACE	SPEC SPS	SPECIFICATION STATIC PRESSURE STATION
ND NF	CONDENSATE CONFERENCE	JST SPC JT	JOINT	SQ SR SS	SQUARE SUCTION REFRIGERANT STAINLESS STEEL
NN NST	CONNECT CONSTRUCTION	L	LABORATORY	SSD	SOIL SUBDRAIN
NT NTR	CONTINUE/CONTINUATION CONTRACT/CONTRACTOR	LAB LAT LB	LEAVING AIR TEMPERATURE	STD STM STRUCT	STANDARD STEAM STRUCTURAL
ORD	COORDINATE CENTER	LB LB/HR I F	POUNDS PER HOUR LINEAL FOOT	SUCT SUSP	SUCTION SUSPENDED
T	CUBIC FEET CHECK VALVE	LP LP LPG	LOW PRESSURE		SOSPENDED
1	COLD WATER CLOCKWISE	LPG LR LVR	LIQUID REFRIGERANT	ТТТСР	THERMOSTAT TEMPERATURE CONTROL PANEL
		LWT	LEAVING WATER TEMPERATURE	TD TDR	TEMPERATURE DROP
	DEGREE DRY BULB	M M/A	MIXED AIR	TEFC	TOTALLY ENCLOSED FAN COOLED
Г	DETAIL DEIONIZED WATER	MAN	MANUAL MATERIAL	ТҮР	TYPICAL
CH	DIAMETER DISCHARGE	MAV	MANUAL AIR VENT MAXIMUM	U U UFD	UNDER FLOOR DUCT
' IPR	DIVISION DAMPER	MBD	MOTORIZED BYPASS DAMPER ONE THOUSAND BTU PER HOUR	UG	UNDERGROUNG
1	DOWN DISTILLED WATER	MCF MCW	ONE THOUSAND CUBIC FEET MAKE-UP COLD WATER	v v	VENT
/G	DRAWING	MD MECH	MOTORIZED DAMPER MECHANICAL	VAV	VARIABLE AIR VOLUME VELOCITY
N	EXHAUST AIR	MFR MH	MANUFACTURER MANHOLE	VENT	VENTILATION VERTICAL
Г	EACH ENTERING AIR TEMPERATURE	MIN MISC	MOTORIZED BYPASS DAMPER MISCELLANEOUS	VOL VTR	VOLUME VENT THROUGH ROOF
С	ELBOW ELECTRICAL	MTR MU/A	MOTOR MAKE-UP/AIR		
V	ELEVATION EXPLOSION PROOF	N		W WB	WASTE WET BULB
JIP	EQUAL EQUIPMENT	N NC	NECK NOISE CRITERIA/NORMALLY CLOSED	WCO WH	WALL CLEAN OUT WALL HYDRANT
C T	ELECTRIC WATER COOLER ENTERING WATER TEMPERATURE	NIC NO	NOT IN CONTRACT NUMBER/NORMALLY OPEN		
ST ,	EXISTING EXPANSION JOINT	NOM NTS	NOMINAL NOT TO SCALE	_	
AB	BREVIATIONS				
	ANVIL CLAMP THREADED ROD 14 GAUGE ZINC COATED SHEET STEEL SADDLE, AT LEAST 6" LONG	ROOF T	TRUSS	ROOF 1 THREAI	TRUSS
	LONG PIPE INSULATION 6" LONG HARDWOOD BLOCKS SHAPED TO FIT		SHEET METAL SADDLE (TYP)		JISTRUT
	BLUCKS SHAPED TO FIT				

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MECHANICAL SHEET INDEX

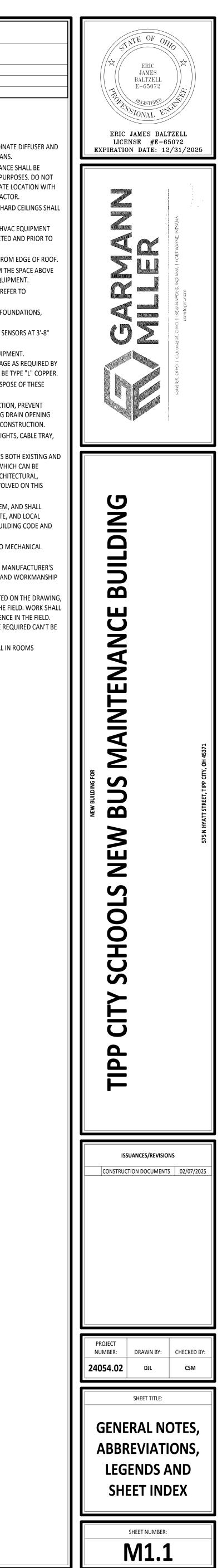
NUMBER SHEET NAME M1.1 GENERAL NOTES, ABBREVIATIONS, LEGENDS AND SHEET INDEX

M5.1	MECHANICAL SCHEDULES AND DETAILS
HVAC G	GENERAL NOTES
А	DIVISION 23 MECHANICAL CONTRACTOR IS REQUIRED TO COORDINA GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN
В	ALL EQUIPMENT LOCATED ABOVE CEILING REQUIRING MAINTENANG INSTALLED WITHIN (2) FEET OF THE CEILING FOR MAINTENANCE PUI INSTALL UNITS ABOVE LIGHTS AND CEILING SPEAKERS. COORDINATE ARCHITECTURAL REFLECTED CEILING PLAN AND GENERAL CONTRACT
С	ANY BALANCING DAMPERS OR OTHER DEVICES IN DUCTS ABOVE HA BE LOCATED ABOVE NEAREST ACCESSIBLE CEILING.
D	THIS CONTRACTOR SHALL BE REQUIRED TO REPLACE FILTERS ON HV AFTER ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETE THE FINAL PUNCH.
Е	ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FRO
F	LOCATE DUCTWORK AND MECHANICAL EQUIPMENT AWAY FROM THE ELECTRICAL PANELS. TRANSFORMERS AND OTHER ELECTRICAL EQUI
G	FIRE SEAL AROUND DUCT PENETRATIONS OF FIRE RATED WALLS. REI SPECIFICATION.
Н	PROVIDE SLEEVES AND/OR OPENINGS TO RUN DUCTS THROUGH FO FLOORS, WALLS, AND ROOF.
Ι	CONTRACTOR SHALL LOCATE THERMOSTATS AND TEMPERATURE SE AFF, A MINIMUM OF 4" FROM LIGHT SWITCH.
J	CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIP CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAG FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPING SHALL BE
К	REMOVE ALL UNUSED PIPING, DUCTWORK AND ACCESSORIES. DISPO ITEMS OFF SITE.
L	WHERE FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING D PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CO
М	COORDINATE INSTALLATION OF PIPING DUCTWORK CONDUIT LIGH

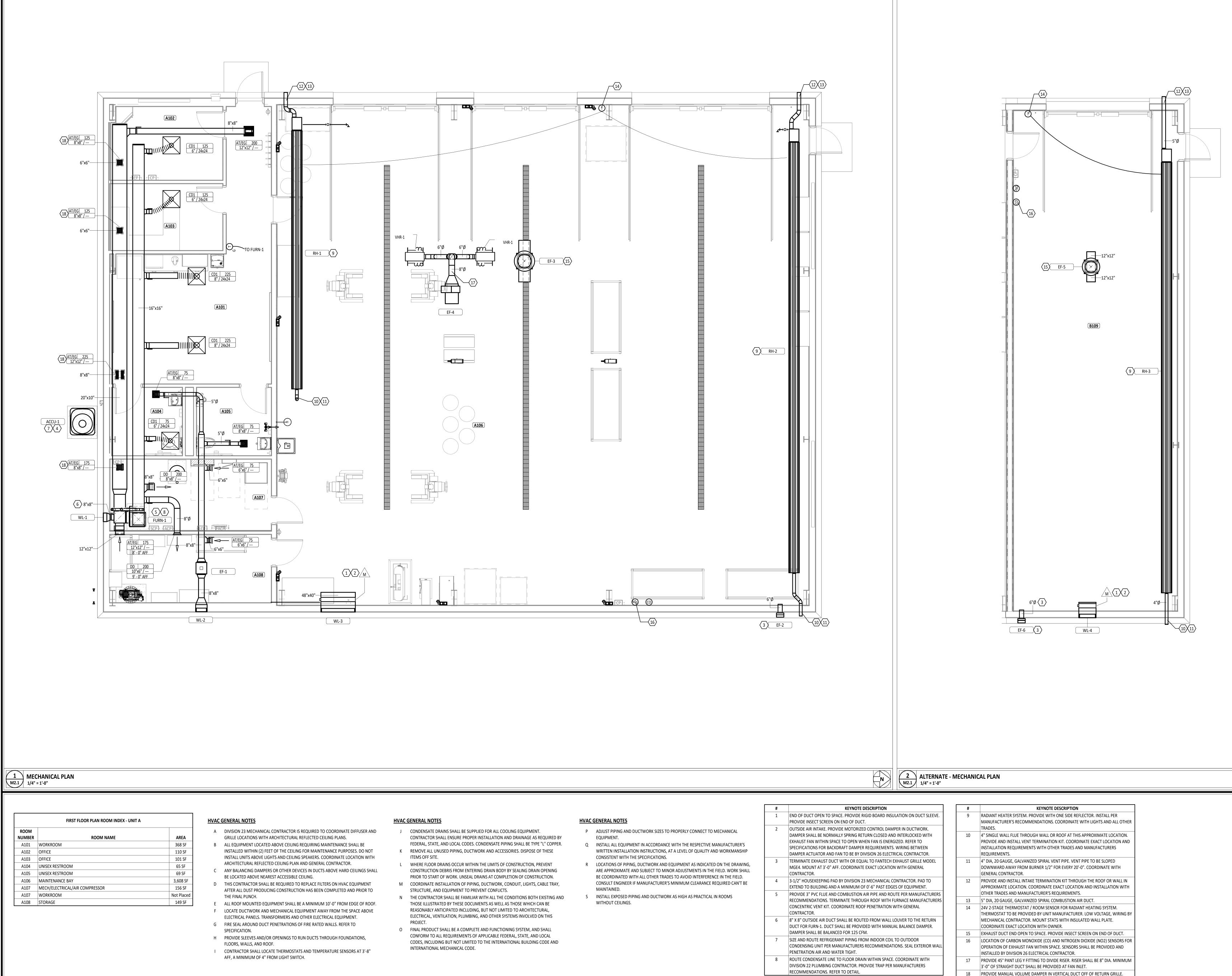
M COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.

 N THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.

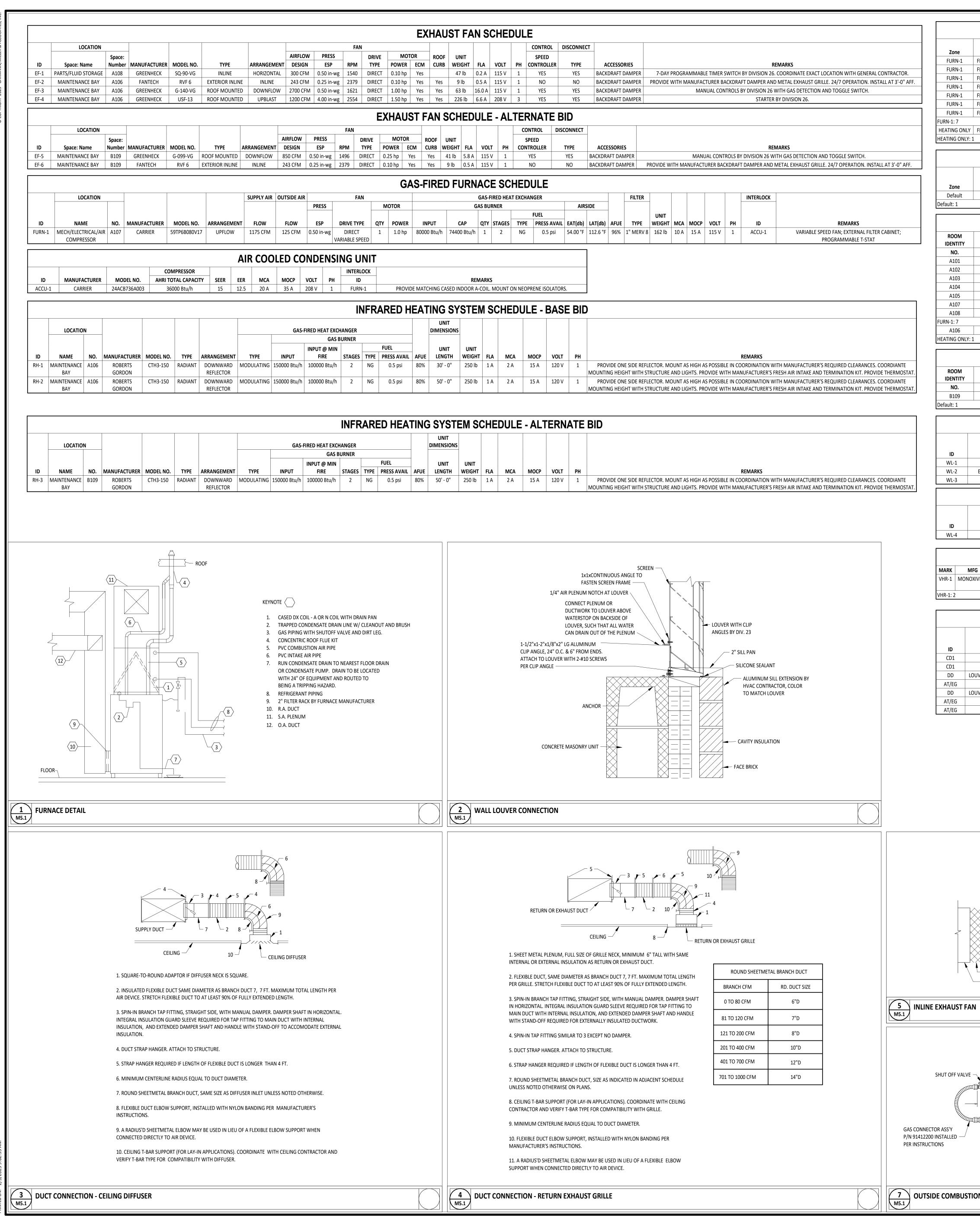
- FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL
 CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL
 CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND
 INTERNATIONAL MECHANICAL CODE.
 ADULST PIPING AND DUCTWORK SIZES TO PROPERLY CONVECT TO ACCUMULATE
- P ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.
 Q INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP
- R LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING,
 ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL
 BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.
- CONSULT ENGINEER IF MANUFACTURER'S MINIMUM CLEARANCE REQUIRED CAN'T BE MAINTAINED. S INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS
- S INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICA WITHOUT CEILINGS.







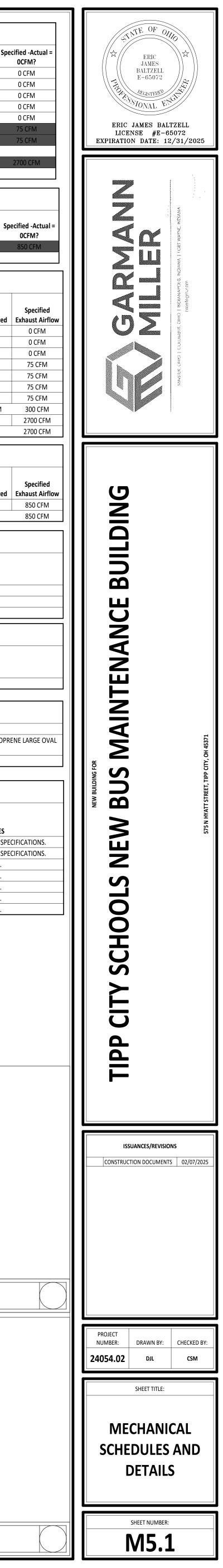




FAN	SC	HEC	DULE										
				CONTRO	L DISCONNI	СТ							Zone
		(O) T		SPEED		ACCESCODIES					DE		FURN-1
						ACCESSORIES BACKDRAFT DAMP							FURN-1
lb 0.2		15 V	1	YES NO	YES	BACKDRAFT DAMF						COORDINATE EXACT LOCATION WITH GENERAL CONTRACTOR. METAL EXHAUST GRILLE. 24/7 OPERATION. INSTALL AT 3'-0" AFF.	FURN-1
b 16.		15 V 15 V	1	YES	YES	BACKDRAFT DAMP						VITH GAS DETECTION AND TOGGLE SWITCH.	FURN-1
lb 6.6		208 V	3	YES	YES	BACKDRAFT DAMP		IVIAI	NUAL CUI	NIKULS		BY DIVISION 26.	FURN-1
10 0.0		00 0	5	TLJ	ILJ	BACKBILALI BAIMI	LN				STARTER		FURN-1
ווח	IF.	- ΔΙ	TFR	ΝΔΤΙ	E BID								FURN-1
					שום ב		1						FURN-1: 7
			CON	ITROL	DISCONNECT								HEATING ONLY
			SP	PEED									HEATING ONLY:
	VOLT	PH	CONT	ROLLER	TYPE	ACCESSORIES						NARKS	
5.8 A	115 V	1	Y	/ES	YES	BACKDRAFT DAMPER						TH GAS DETECTION AND TOGGLE SWITCH.	
0.5 A	115 V	1	1	0	NO	BACKDRAFT DAMPER	PROVIDE WITH M	ANUFACT	URER BA	CKDRAF	F DAMPER AND N	/IETAL EXHAUST GRILLE. 24/7 OPERATION. INSTALL AT 3'-0" AFF.	
RN/	\CE	SC	HED	ULE									Zone
													Default
			T EXCHA	NGER			.TER				INTERLOCK		Default: 1
GA	S BURN	IER			All	SIDE							Delault. 1
_				FUEL			UNIT						
	QTY ST		TYPE	PRESS A			YPE WEIGHT MCA	-	VOLT	PH	ID	REMARKS	
Btu/h	1	2	NG	0.5 p	osi 54.00 °F	112.6 °F 96% 1" N	IERV 8 162 lb 10 A	15 A	115 V	1	ACCU-1	VARIABLE SPEED FAN; EXTERNAL FILTER CABINET;	ROOM
												PROGRAMMABLE T-STAT	IDENTITY
						Г							NO.
													A101
						-							A102
REM	VDNC												A103
				RENE ISOL		_							A104
UUR A-U		UUNIC	JN NEUP	REINE ISUL	ATURS.	J							A105
													A105
STEP	1 SC	CHE	DUL	.E - B	ASE BII								A107
													FURN-1: 7
													A106
													HEATING ONLY:
													HEATING UNLT.
UNIT	-			1000									
VEIGHT		MC			VOLT PH						REMARKS		
250 lb	1 A	2 /	A .	15 A	120 V 1							TH MANUFACTURER'S REQUIRED CLEARANCES. COORDIANTE RESH AIR INTAKE AND TERMINATION KIT. PROVIDE THERMOSTAT.	ROOM
250 lb	1 A	2 /	<u>, </u>	15 A	120 V 1							TH MANUFACTURER'S REQUIRED CLEARANCES. COORDIANTE	IDENTITY
250 10	I A	2 4	۰ ۱	15 A	120 V 1							RESH AIR INTAKE AND TERMINATION KIT. PROVIDE THERMOSTAT.	NO.
											tor Acronent Stri		B109
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		ייים				חוח							
VI J		וטע		ALIC	ERNATE	עום							
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UNIT													
	FLA	мс		ЛОСР	VOLT PH						REMARKS		WL-2
VEIGHT		-					E REFLECTOR MOUNT					TH MANUFACTURER'S REQUIRED CLEARANCES, COORDIANTE	
VEIGHT	FLA 1 A	MC 2 <i>i</i>			VOLT PH 120 V 1					LE IN CO	ORDINATION WI	TH MANUFACTURER'S REQUIRED CLEARANCES. COORDIANTE RESH AIR INTAKE AND TERMINATION KIT. PROVIDE THERMOSTAT.	WL-2 WL-3
UNIT WEIGHT 250 lb		-								LE IN CO	ORDINATION WI		

			LOCAT		HRAE 62.	1 EXHA						1		Actual Exhaust E	xhaust Spe
Zone FURN-1	Level FIRST FLOOR	NO. A101	wo	RKROOM	Conference/meeti	ng 368 SF	Exhaust Rate	per Fixture	Fixtures	(Restrooms)	Exhaust (per SF)	0 CFIV	1	0 CFM	nru ERW
FURN-1	FIRST FLOOR	A103	(DFFICE	Office space	101 SF		75.0514		75.0514		0 CFIV	1	0 CFM	
FURN-1	FIRST FLOOR	A105	UNISE>	RESTROOM	Toilets (public)	69 SF		75 CFM 75 CFM	1	75 CFM 75 CFM	70 (ГМ	75 CFN	M	75 CFM	
FURN-1	FIRST FLOOR	A107 A108		-	•	149 SF	0.50 CFM/SF				75 CFM	75 CFN	N	0 CFM	
HEATING ONLY HEATING ONLY: 1	FIRST FLOOR	A106	MAINT	ENANCE BAY	Warehouses		0.75 CFM/SF				2706 CFM	2700 CF	M	0 CFM	
				ASHR	AF 62.1 F	XHAUS	T RATF P	ROCED		SUMMARY	′ - AITFR	NATF	BID		
			L						Numer		Calculated			Actual Exhaust E	xhaust Sp
Zone Default	Level FIRST FLOC	DR	NO. B109	NAME MAINTENANCE BAY	-	Area, A		per Fixture				Exhaust A	hirflow Exhaust Air Flo	w Airflow Th	ru ERW
Default: 1														0 CFM () CFM
ROOM				ASH	RAE 62.1	VENTIL	ATION R	ATE PF	ROCED	OURE SUM	MARY - E	BASE B	BID		
IDENTITY NO.															
A102															
A104		NISEX RE	STROOM	Toilets (public)	65 SF	75 CFN	0 N	5.0) CFM	0.06 CFM/SF	0.8	3	11 CFM	14 CFM	15 CFM
A107	MECH/ELEC	CTRICAL/	AIR COMPRESSOF	R Non-Occupiable	156 SF	200 CF	M 0								
FURN-1: 7	1				1018 SF	1175 CF	M 12	0.0) CFM	0.06 CFM/SF	1				125 CFM
HEATING ONLY: 1	1					0 CFN	1 0			· · ·			216 CFM	216 CFM	0 CFM
ROOM				ASHRAI	E 62.1 VE	NTILAT	ION RAT	E PROC	EDUR	E SUMMA	RY - ALT	ERNAT	re bid		
IDENTITY				Occupancy Cate	gory Area, Az							1	-	•	
B109 Default: 1	М	AINTENA	NCE BAY		1115 SF		1 0				1				0 CFM
						L	OUVER S	CHEDU	JLE - B	ASE BID					
								1		DIMENSIONS					
		N				AIRFLOW				IT HEIGHT	WEIGHT		COLOR TO		HITECT.
							_								
						LOU	VER SCH	EDULE	- ALTE	RNATE BI	D				
			_							TOP MOUNT	UNIT				
													COLOR TO		HITECT.
				4"Ø SPRING RETURN I	IOSE REEL ASSEMB	LY WITH MAN	UAL EXTENSION H	IOSE REEL WI	TH SPRING F			. 18" DRUM	I WIDTH. SERIES 4000 H	OSE, 4"Ø AT 40 FT LEN	IGTH. NEOPR
VHR-1: 2	2382	7-SC-SL T	AILPIPE PIECE		TAILPIPE ADAPTE	R WITH SPRIN	g Clamp. Moun	T TO BOTTOM	1 OF STRUCT	TURE. SUPPORT FRO	M ROOF STRUCTL	JRE. PROVID	DE ADDITIONAL STRUCTU	JRAL SUPPORT AS REC	UIRED.
					GRIL	LES. R	EGISTER			USERS SC	HEDULE				
										BLADE DESIGN		•	INSTALLATION		
					ODEL QTY	SIZE SIZE	WIDTH HEIC	GHT THICKN	ESS SPACIN			ON			
CD1	LOUVERED	FACE DIF	FUSER	TITUS TE	DC-AA 3 2	24x24 6"	10" 6	" 1/8"	3/4"	45.0° 0.0	° DOUBLE-SH	ORT DUC	TYPE 3 (LAY-IN)	18" x 18" CORE.	REFER TO SPE
												ORT DUC	. ,		
								· · ·							
											(N AIR DUCT,		
	γ			/							S	HEET METAL			
		М				N 23					BUE		/		
		<u> </u>													
	\mathbf{X}										4 TELX C	UNNECTOR	ON ENDS (-1-222	
	×												N IS FOR IN		
			ON (TYP)		FAN AS SHOWN						NOTE: SE	AL WALL PE	NETRATION AIR AND WA	TER TIGHT	
	DOCTWOR	N								$\overline{}$					
NE EXHAUST FAN	N											on air di	ETAIL		
		SH	UT OFF VALVE												
SHUT OFF VALVE	ć H	≍ III				V	ERTICAL				4" SI	NGLE WALL	FLUE		
			FOR THE COLD CO	ONDITION. THIS DISPLA	CEMENT	Ŕ		Δ							
			WILL BE REDUCE) AS THE SYSTEM IS FIF				12"			Ę	>			
ECTOR ASS'Y					HOR		,				FLUE	e pipe adapt	For \neg \angle seal all joi	NTS	
200 INSTALLED —		SIDE VIEV	<u> </u> ↓ ^µ <u> </u>				END VIEW				NOT	E: SEAL WAL			
			≈4"►												
	ON AIR DET	TAIL								8 M5.1 SIDEWA	LL VENT DET	AIL			
									<u></u>						

ASHRAE 62.1 EXHAUST RATE PROCEDURE SUMMARY - BASE BID



IATES, INC.	- NOTE:	CIRCUIT AND RACEWAY SYMBOLS			WIRING DEVICE SYMBOL	S		FIRE ALARM SYMBOLS		$\overline{}$
& ASSOCI	ABBREVIATIONS USED ON L THE CONTRACT DOCUMENTS, LOC LOCATION	SYMBOL DESCRIPTION		SYM		MOUNTING LOC. HT.	SYMBOL	DESCRIPTION	MOU LOC.	NTING HT.
/MILLER	INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW.	$\frac{1}{1}$	CAL CIRCUIT WIRING	G' ₽ ₽	SOLID HATCH INDICATES DEVICE CONNECTED TO EMERGENCY PO RED DEVICE WITH COVERPLATE TO MATCH REST OF ROOM.	WER. PROVIDE WALL, VARIES UNO	FACP	FIRE ALARM CONTROL PANEL. REFER TO SPECIFICATIONS.	W/411	72" TO
ARMANN	GROUND FAULT PROTECTION	CIRCUIT CONCEALED IN CEILING, WALL, OR FLOOR OF NEW CONSTRUCTION. CONC POSSIBLE IN AREAS OF OPEN STRUCTURE OR EXISTING CONSTRUCTION.	CEALED WHEREVER	R =	OUPLEX RECEPTACLE, 20A, 125V, NEMA 5-20R, WITH COVERPLAT VERTICALLY.		NAC	FIRE ALARM NAC POWER SUPPLY. REFER TO SPECIFICATIONS.		ТОР
2025 - G/	A AMPS, AMPERE, AMPERAGE M MILLIAMPS	INDICATES CONCEALED CONDUIT UNDERGROUND/UNDERFLOOR		=	The second sec	WALL, 16"	FAA	FIRE ALARM ANNUNCIATOR PANEL. REFER TO SPECIFICATIONS.	WALL	48"
YRIGHT	A/V AUDIO/VISUAL MAX MAXIMUM AC ABOVE COUNTER MCA MINIMUM CIRCUIT	HOMERUN TO PANEL OR LOCATION NOTED		=	DOUBLE DUPLEX RECEPTACLE, 20A, 125V, NEMA 5-20R, WITH CO COVERPLATE.		F	FIRE ALARM PULL STATION. REFER TO SPECIFICATIONS.	WALL	44"
© COP	ac ALTERNATING CURRENT AMPACITY ADA AMERICANS WITH MCC MOTOR CONTROL CENTER	SURFACE MOUNT RACEWAY. REFER TO PLANS FOR TYPE.			O x SINGLE RECEPTACLE, 20A, 125V, NEMA 5-20R, WITH COVERPLATE VERTICALLY.	MOUNTED		FIRE ALARM HORN DEVICE. REFER TO SPECIFICATIONS.		
	DISABILITIES ACT MH MOUNTING HEIGHT	DENOTES VERTICALLY MOUNTED RACEWAY	ΙΔΝΤΙΤΥ #"		SPECIAL PURPOSE RECEPTACLE WITH COVERPLATE. REFER TO PLA			FIRE ALARM HORN/STROBE DEVICE. REFER TO SPECIFICATIONS.		
	AFG ABOVE FINISHED GRADE MIN MINIMUM MINIMUM MINIMUM MINIMUM MINIMUM	(2)2" CONDUIT SLEEVE(S) ABOVE CEILING FOR TECHNOLOGY CABLING. (#) INDICATES QU E		=	DUPLEX RECEPTACLE, 20A, 125V, NEMA 5-20R, WITH COVERPLAT VERTICALLY.			FIRE ALARM SPEAKER DEVICE. REFER TO SPECIFICATIONS.	WALL	80", UNO
	AIC AVAILABLE INTERRUPTING CURRENT MANUAL TRANSFER SWITCH	LADDER TYPE CABLE TRAY. REFER TO SPECIFICATIONS FOR MORE INFORMATION.		=	DUPLEX RECEPTACLE, 20A, 125V, NEMA 5-20R, WITH COVERPLAT INDICATES DEVICE TO BE MOUNTED HORIZONTALLY.	UNO UNO		FIRE ALARM SPEAKER/STROBE DEVICE. REFER TO SPECIFICATIONS.		
	AL ALUMINUM ATS AUTOMATIC TRANSFER N/A NOT APPLICABLE	WIRE MESH CABLE TRAY. REFER TO SPECIFICATIONS FOR MORE INFORMATION.		=	DOUBLE DUPLEX RECEPTACLE, 20A, 125V, NEMA 5-20R, WITH CO COVERPLATE.			FIRE ALARM STROBE LIGHT ONLY DEVICE. REFER TO SPECIFICATIONS.		
	SWITCH NC NORMALLY CLOSED AWG AMERICAN WIRE GAUGE NC NATIONAL ELECTRICAL CODE	DOWN UP CONDUIT TURNS			SINGLE RECEPTACLE, 20A, 125V, NEMA 5-20R, WITH COVERPLATE VERTICALLY.	MOUNTED	\otimes	CEILING MOUNT FIRE ALARM SPEAKER DEVICE. REFER TO SPECIFICATIONS.		
	NEMA NATIONAL ELECTRICAL	LIGHTING FIXTURE SYMBOLS			X IN FLOOR SINGLE RECEPTACLE. TYPE AS INDICATED ON PLANS.		\odot	CEILING MOUNT FIRE ALARM SPEAKER/STROBE DEVICE. REFER TO SPECIFICATIONS.		
	B MANUFACTURERS BKR BREAKER BTM BOTTOM	REFER TO LUMINAIRE SCHEDULE FOR ALL FIXTURE TYPES AND ADDITIONAL INFORMATION.		0	X IN FLOOR DUPLEX RECEPTACLE. TYPE AS INDICATED ON PLANS.	FLOOR VARIES	3	FIRE ALARM SMOKE DETECTOR. REFER TO SPECIFICATIONS.	CEILING	SURFACE
	NFPA NATIONAL FIRE PROTECTION	SYMBOL DESCRIPTION	MOUNTING LOC. HT	G€	X IN FLOOR DOUBLE DUPLEX RECEPTACLE. TYPE AS INDICATED ON I		٩	FIRE ALARM HEAT DETECTOR. REFER TO SPECIFICATIONS.		
	C ASSOCIATION C CONDUIT NIC NOT IN CONTRACT	SOLID HATCH INDICATES LIGHT FIXTURE CONNECTED TO EMERGENCY CIRCUIT. HATCH WILL BE MODIFIED FOR EACH FIXTURE TYPE.	VARIES	C	X IN FLOOR SPECIAL PURPOSE RECEPTACLE. TYPE AS INDICATED ON	PLANS.	0	CARBON MONOXIDE DETECTOR. REFER TO SPECIFICATIONS.		
	CB CIRCUIT BREAKER NL NIGHT LIGHT CCTV CLOSED CIRCUIT TELEVISION NO NORMALLY OPEN	A CAPITAL LETTER INDICATES FIXTURE TYPE a LOWERCASE LETTER INDICATES SWITCHING		C	X CEILING MOUNTED SINGLE RECEPTACLE.		() 	FIRE ALARM DUCT SMOKE DETECTOR. REFER TO SPECIFICATIONS.	DUCT MTD.	SEE PLANS
	CKT CIRCUIT CU COPPER	RECESSED MOUNTED LUMINAIRE; APPROXIMATE SIZE AS INDICATED ON PLANS.		C	X CEILING MOUNTED DUPLEX RECEPTACLE.	CEILING FLUSH	ю	FIRE ALARM MAGNETIC DOOR HOLDER. REFER TO SPECIFICATIONS.	WALL	VARIES
	0	SURFACE OR SUSPENDED MOUNT LUMINAIRE; APPROXIMATE SIZE AS INDICATED ON PLANS.		¢	X CEILING MOUNTED DOUBLE DUPLEX RECEPTACLE.		\square	FIRE ALARM REMOTE TEST STATION FOR HIDDEN SMOKE/DUCT DETECTOR. REFER TO SPECIFICATIONS.	VARIES	SEE
	D OH OVERHEAD	Ø Ø RECESSED MOUNTED DOWNLIGHT LUMINAIRE. DIRECTIONAL ARROW INDICATES AIMABLE FIXTURE TYPE.		(X CEILING MOUNTED SPECIAL PURPOSE RECEPTACLE.		AM	FIRE ALARM ADDRESSABLE MODULE (MONITOR OR RELAY). REFER TO SPECIFICATIONS.	VANLES	PLANS
	DIA DIAMETER P P POLE	O SURFACE MOUNTED DOWNLIGHT LUMINAIRE.			X PEDESTAL MOUNTED SINGLE RECEPTACLE.		Ð	FIRE ALARM SPRINKLER BELL. FURNISHED BY FIRE SUPPRESSION CONTRACTOR, INSTALLED BY DIVISION 26.	WALL	96"
	E PA PUBLIC ADDRESS EC ELECTRICAL CONTRACTOR PC PHOTOCELL	O PENDANT MOUNT LUMINAIRE; APPROXIMATE SIZE AS INDICATED ON PLANS.	CEILING	(X PEDESTAL MOUNTED DUPLEX RECEPTACLE.	FLOOR VARIES	Ko	TAMPER VALVE/SWITCH FOR PLUMBING PIPING. PROVIDE FIRE ALARM CONNECTIONS AS REQUIRED.		
	EM EMERGENCY PH PHASE EMT ELECTRICAL METALLIC PVC POLYVINYL CHLORIDE	STRIP LIGHT LUMINAIRE.			PEDESTAL MOUNTED DOUBLE DUPLEX RECEPTACLE.		8	FLOW SWITCH FOR SPRINKLER PIPING. PROVIDE FIRE ALARM CONNECTIONS AS REQUIRED.	PIPE	N/A
		PENDANT MOUNT LUMINAIRE; APPROXIMATE SIZE AS INDICATED ON PLANS.	CHEDU		PEDESTAL MOUNTED SPECIAL PURPOSE RECEPTACLE.		X•	POST INDICATOR VALVE (PIV). PROVIDE FIRE ALARM CONNECTIONS AS REQUIRED.		
	RGS RIGID GALVANIZED STEEL	PENDANT MOUNTED ROUND OR RING TYPE LUMINAIRE; APPROXIMATE SIZE AS INDICATED ON PLANS.	VAIRE St		'X' INDICATES RECEPTACLE TYPE OTHER THAN STANDARD NO DESIGNATOR INDICATES STANDARD POWER DEVICE		SD	SMOKE DAMPER CONNECTION. REFER TO PLANS FOR TYPE.	AT DUCT	SEE PLANS
	F FA FIRE ALARM S	RECESSED MOUNTED ROUND OR RING TYPE LUMINAIRE; APPROXIMATE SIZE AS INDICATED ON PLANS.			GFI = GFCI RATED GFT = GFCI RATED AND TAMPER RESISTANT					
	FAA FIRE ALARM ANNUNCIATOR SPD SURGE PROTECTION DEVICE FACP FIRE ALARM CONTROL PANEL SW SWITCH	$ \vec{\phi} \vec{\phi} \vec{\phi} $ TRACK MOUNTED LUMINAIRES. PROVIDE TRACK LENGTH AND QUANTITY OF FIXTURES AS INDICATED ON PLANS. AIM AS INDICATED ON PLANS.	REFER		TR = TAMPER RESISTANT IG = ISOLATED GROUND			SECURITY/ACCESS CONTROL SYMBOLS	ΜΟΠ	NTING
	FDR FEEDER FLA FULL LOAD AMPS T	H EXTERIOR WALL PACK LUMINAIRE.			U = USB CHARGING PORTS SR = SOUND REINFORCEMENT		SYMBOL ACP	DESCRIPTION ACCESS CONTROL SYSTEM CONTROL PANEL. DIVISION 26 TO PROVIDE 120V	LOC.	HT.
	FUT FUTURE TEMPORARY	HO WALL MOUNTED LUMINAIRE.			IFP - INTERACTIVE FLAT PANEL VID = VIDEO OUTLET VP = VIDEO PROJECTOR	96"	SCP	CONNECTION TO PANEL AS REQUIRED. COORDINATE WORK WITH DIVISION 28. SECURITY SYSTEM CONTROL PANEL. DIVISION 26 TO PROVIDE 120V CONNECTION TO	WALL	72" TO TOP
	G TV TELEVISION TVSS TRANSIENT VOLTAGE SURGE				WC = WATER COOLER WF = WASH FOUNTAIN	- 80"		PANEL AS REQUIRED. COORDINATE WORK WITH DIVISION 28. ELECTRIC LOCK, PROVIDED BY DIVISION 08. PROVIDE 3/4" CONDUIT WITH PLASTIC		
	GEN GENERATOR SUPPRESSOR GFI OR GFCI GROUND FAULT CIRCUIT TYP TYPICAL	EMERGENCY BATTERY PACK LUMINAIRE.	WALL		WP = WASHTOONTAIN WP = WEATHER-PROOF AND GFCI RATED (METAL IN-USE CC MW = MICROWAVE - COORDINATE WITH CASEWORK INSTA	,	EL	BUSHING FROM DOOR FRAME TO ABOVE ACCESSIBLE CEILING. COORDINATE ROUGH-IN REQUIREMENTS WITH DIVISION 08 AND DIVISION 28.	DOOR	SEE
	GFP OR GFPE GROUND FAULT PROTECTION U	SINGLE OR DOUBLE (AS INDICATED) EMERGENCY REMOTE HEAD.			FLOOR BOX WITH TWO (2) DUPLEX RECEPTACLES, NEMA 5-20R, U	NO. 'X' INDICATES	DC	DOOR CONTACT, PROVIDED BY DIVISION 28. PROVIDE 3/4" CONDUIT WITH PLASTIC BUSHING FROM DOOR FRAME TO ABOVE ACCESSIBLE CEILING. COORDINATE	DOOK	PLANS
	OF EQUIPMENT UG UNDERGROUND GND GROUND UL UNDERWRITERS'	WALL MOUNTED EXIT SIGN, ARROWS AND EMERGENCY LIGHTS AS INDICATED.	\neg		FLOOR TYPE (CARPET, TILE, WOOD, ETC.) COORDINATE WITH FLOO POKE-THRU WITH TWO (2) DUPLEX RECEPTACLES, NEMA 5-20R, U	DR INSTALLER.		ROUGH-IN REQUIREMENTS WITH DIVISION 08 AND DIVISION 28. REQUEST TO EXIT DEVICE, PROVIDED BY DIVISION 28. PROVIDE 3/4" CONDUIT WITH		
	H UNO UNLESS NOTED OTHERWISE	Image: Shaded area indicates face location(s). Image: Shaded area indicates face location(s). Image: Ceiling mounted exit sign, arrows and emergency lights as indicated.		C	X TYPE, REFER TO SPECIFICATIONS. PROVIDE PROPER COVER FOR TH	IE ASSOCIATED	REX	PLASTIC BUSHING FROM DOOR FRAME TO ABOVE ACCESSIBLE CEILING. COORDINATE ROUGH-IN REQUIREMENTS WITH DIVISION 08 AND DIVISION 28.	VARIES	VARIES
	HOA HAND-OFF-AUTO UPS UNINTERRUPTABLE POWER	SHADED AREA INDICATES FACE LOCATION(S).	CEILING				CR	CARD READER, PROVIDED BY DIVISION 28. PROVIDE SINGLE GANG BACK BOX WITH 3/4" CONDUIT WITH PLASTIC BUSHING TO ABOVE ACCESSIBLE CEILING.	WALL	44"
	HP HORSEPOWER SUPPLY HT HEIGHT	FLOOD LIGHT LUMINAIRE.			JUNCTION BOX OR EQUIPMENT CONNECTION WITH SWITCH FOR DISCONNECT. PROVIDE SWITCH RATED FOR VOLTAGE AND LOAD	SHOWN ON PLANS		COORDINATE WITH DIVISION 28 PRIOR TO ROUGH-IN. KEYPAD, PROVIDED BY DIVISION 28. PROVIDE SINGLE GANG BACK BOX WITH 3/4"		
	V I VOLTS, VOLTAGE	LIGHTED BOLLARD OR IN-GRADE LUMINAIRE.			WALL MOUNTED JUNCTION BOX.	PLANS PLANS	KP	CONDUIT WITH PLASTIC BUSHING TO ABOVE ACCESSIBLE CEILING. COORDINATE WITH DIVISION 28 PRIOR TO ROUGH-IN.	WALL	44"
	IEEE INSTITUTE OF ELECTRICAL VFD VARIABLE FREQUENCY DRIVE AND ELECTRONICS	DECORATIVE POLE TOP AREA LUMINAIRE.			MOTOR CONNECTION.		MD-	CEILING MOUNT MOTION DETECTOR. PROVIDE ROUGH-IN IN HARD CEILING AS REQUIRED FOR INSTALLATION. PROVIDE 3/4" CONDUIT WITH PLASTIC BUSHING TO	HARD CEILING	N/A
	IG ISOLATED GROUND WIRE	POLE MOUNT LUMINAIRE. NUMBER OF HEAD(S)/TYPE(S) AS INDICATED.			MOTOR CONNECTION WITH SWITCH FOR MAINTENANCE DISCON SWITCH RATED FOR VOLTAGE AND LOAD SHOWN ON PLANS.	NECT. PROVIDE N/A N/A		ABOVE ACCESSIBLE CEILING. COORDINATE BACK BOX AND WORK WITH DIVISION 28 WALL MOUNT MOTION DETECTOR. PROVIDE SINGLE GANG BACK BOX WITH 3/4"	CEIEINO	Q6"
	WG WIRE GUARD	LIGHTING CONTROL SYMBOLS			7-DAY PROGRAMMABLE TIMER SWITCH RATED FOR LOAD BEING EQUAL TO INTERMATIC - #EI600WC	<i>ΔΔ</i> "	MD→	CONDUIT WITH PLASTIC BUSHING TO ABOVE ACCESSIBLE CEILING. COORDINATE WORK WITH DIVISION 28.	WALL	UNO
	KCMIL THOUSAND CIRCULAR MILS KV KILOVOLT	SYMBOL DESCRIPTION	MOUNTING	G		DTOR. WALL UNO	E@	SECURITY SYSTEM ALARM BELL PROVIDED BY DIVISION 28. PROVIDE BACK BOX AND PATHWAY AS REQUIRED. COORDINATE WITH DIVISION 28.	WALL	80", UNO
	KVA KILOVOLT AMPS X XFMR TRANSFORMER	SINGLE POLE SWITCH, 20A, 120/277V WITH COVERPLATE.	LOC. HT	<u>т.</u>	CORD REEL RECEPTACLE. REFER TO SPECIFICATIONS FOR TYPE.		н⊴	VOICE ONLY INTERCOM STATION BY DIVISION 28. BACK BOX FURNISHED BY DIVISION 28, INSTALLED BY DIVISION 26. PROVIDE 1" CONDUIT WITH PLASTIC		
	KVAR KILOVOLT AMPS REACTIVE KW KILOWATT	••• 3 THREE-WAY SWITCH, 20A, 120/277V WITH COVERPLATE.	\neg	د()	DROP CORD RECEPTACLE. REFER TO ASSOCIATED DROP CORD DET	TAIL FOR MORE		BUSHING TO ABOVE ACCESSIBLE CEILING. VOICE & VIDEO INTERCOM STATION BY DIVISION 28. BACK BOX FURNISHED BY	WALL	44"
	KWH KILOWATT HOUR	••• 4 FOUR-WAY SWITCH, 20A, 120/277V WITH COVERPLATE.	\neg				H	DIVISION 28, INSTALLED BY DIVISION 26. PROVIDE 1" CONDUIT WITH PLASTIC BUSHING TO ABOVE ACCESSIBLE CEILING.		
	ABBREVIATIONS	↔ P SINGLE POLE PILOT LIGHT SWITCH, 20A, 120/277V WITH COVERPLATE.	\neg		ELECTRICAL EQUIPMENT SYN		MS	DESK MOUNT MASTER INTERCOM STATION PROVIDED BY DIVISION 28. COORDINAT PATHWAY REQUIREMENTS WITH DIVISION 28.		VARIES
		↔ K KEY OPERATED SINGLE POLE SWITCH, 20A, 120/277V WITH COVERPLATE.	WALL 44	.,	IBOL DESCRIPTION SURFACE MOUNTED PANELBOARD - CIRCUIT BREAKER TYPE. DASH	HED LINES ON PLAN	●	ELECTRONIC DOOR RELASE PUSHBUTTON PROVIDED BY DIVISION 28. COORDINATE PATHWAY REQUIREMENTS WITH DIVISION 28.	VARIES	VARIES
		SK KEY OPERATED THREE-WAY SWITCH, 20A, 120/277V WITH COVERPLATE.	UN		INDICATE CLEARANCES. REFER TO PANEL SCHEDULES AND ONE-LI FLUSH MOUNTED PANELBOARD - CIRCUIT BREAKER TYPE. DASHED					
	GENERAL DRAWINGS SYMBOLS	↔ 4K KEY OPERATED FOUR-WAY SWITCH, 20A, 120/277V WITH COVERPLATE.	\neg		INDICATE CLEARANCES. REFER TO PANEL SCHEDULES AND ONE-LI DISTRIBUTION PANEL - CIRCUIT BREAKER TYPE. DASHED LINES ON	NE DIAGRAM.	SYMBOL			NTING
	X KEYED NOTE REFERENCE	••• OS OCCUPANCY SENSOR SWITCH. EQUAL TO SENSORSWITCH - #WSXA PDT WH	\neg		CLEARANCES. REFER TO PANEL SCHEDULES AND ONE-LINE DIAGRA			GYM EQUIPMENT CONTROL PANEL FURNISHED BY GYM EQUIPMENT INSTALLER.		NTING HT. 72" TO
	REVISION NUMBER - SHOWN ON PLANS	OCCUPANCY SENSOR DIMMING SWITCH. EQUAL TO SENSORSWITCH - #WSXA PDT	D	0	METER BASE.	VARIES 78" TO TOP	GCPx	DIVISION 26 TO PROVIDE POWER CONNECTIONS TO ALL GYM EQUIPMENT SHOWN ON PLANS.	WALL	TOP
	CONTINUATION SYMBOL	WH Hos Wall MOUNTED OCCUPANCY SENSOR.	96'	Ľ	5 NON-FUSED DISCONNECT SWITCH.		GEC	GYM EQUIPMENT CONTROLLER FURNISHED BY GYM EQUIPMENT INSTALLER. DIVISION 26 TO PROVIDE BACK BOX AND ALL NECESSARY POWER/CONTROL WIRING	WALL	44"
	NUMBER OF DETAIL ON SHEET DRAWING NUMBER WHERE DETAIL APPEARS	© CORNER MOUNTED OCCUPANCY SENSOR.	WALL UN		5 FUSED DISCONNECT SWITCH.	VARIES VARIES	GA	TO GYM EQUIPMENT CONTROL PANEL. GENERATOR ANNUNCIATOR PANEL.	WALL	56"
		© CEILING MOUNTED OCCUPANCY SENSOR. EQUAL TO SENSORSWITCH - #CM PDT 9			COMBINATION MAGNETIC MOTOR STARTER AND DISCONNECT SV		FUSE	SPARE FUSE CABINET.	WALL	72" TO TOP
	DEMOLITION (IF APPLICABLE)	O CEILING MOUNTED DAYLIGHT SENSOR.	CEILING SURF		MAGNETIC MOTOR STARTER.		H	AUTOMATIC DOOR OPERATOR FURNISHED BY DIVISION 08, INSTALLED BY DIVISION 26. COORDINATE WITH DOOR INSTALLER.		
	SYMBOL DESCRIPTION NOTES DASHED SYMBOL INDICATES EXISTING DEVICE OR REFER TO	WALL MOUNTED OUTDOOR PHOTOCELL	WALL 96' UN	NO		WALL 44", UNO	D)	PUSH BUTTON. REFER TO DRAWINGS FOR MORE INFORMATION.	WALL	44"
	Image: Solid Symbol, Lighter in Color Indicates existing Demolition Plans	LIGHTING CONTROL PANEL WITH DIGITAL TIME CLOCK. PROVIDE QUANTITY OF RELAYS AS REQUIRED. EQUAL TO nLIGHT - #ARP INTENC08 MVOLT SC SM	WALL TO	TO A	TS AUTOMATIC TRANSFER SWITCH.		••	PUSH BUTTON. REFER TO DRAWINGS FOR MORE INFORMATION.	1	
	\$ P Solid symbol, lighter in color indicates existing device or equipment to remain. For additional information				TS MANUAL TRANSFER SWITCH.	VARIES 72" TO	ø	OVERHEAD UTILITY POLE		
				EC		TOP	H	SITE IN-GRADE PULL BOX. REFERNCE SITE PLAN FOR MORE INFORMATION.	N/A	N/A
				V	FD VARIABLE FREQUENCY DRIVE.		Ŵ	CARBON MONOXIDE SENSOR		
					GROUND BAR. REFER TO GROUNDING DETAIL.	WALL 16"		NITROGEN DIOXIDE SENSOR	WALL	44"
								1	1	
	AL1-1,3,5 CIRCUIT NO. DESIGNATION PHASE CONDUCTOR(S) NEUTRAL CONDUCTOR(S) ALL CONDUCTORS 12 AWG, UNLESS OTHERWISE NOTED	BRANCH CIRCUIT GENERAL NOTES: 1. CONDUIT ROUTING FOR BRANCH CIRCUITS ARE NOT SHOWN ON PLANS AND IS LEFT TO THE DISCRETION OF THE CONTRACTOR. THE FOLLOWING WIRE SIZES SHALL BE USED UNLESS NOTED OTHERWISE IN PANEL SCHEDULE. DETERMINE FURTHEST DISTANCE FROM BRANCH PANELBOARD TO FURTHEST DEVICE PRIOR TO WIRE INSTALLATION. INCREASE WIRE SIZE AS NECESSARY FOR FURTHER DISTANCES.		48" WORKING CLEA PIPING, DUCTWO	TO FRONT OF PANELBOARD.	DEDICATED ELECTRICAL SPACE TO ST CEILING OR HARD CEILING. ONLY ELE CONDUIT AND CONDUCTORS SHALL I PERMITTED TO PENETRATE THIS ARE/ SURFACE MOUNTED OR RECESSED PANELBOARD DEDICATED ELECTRICAL SPACE TO FLO	OOR. ONLY	NOTES: 1. HEIGHTS REFER TO BOTTOM 2. NOT ALL SYMBOLS ARE SHOV FOR ADDITIONAL MOUNTING PANELBOARD	/N, REFER	TO SYMBOLS LEG
	MOTES:	CIRCUIT TYPE CONDUCTOR SIZE MAXIMUM LENGTH			ELDOR	ELECTRICAL CONDUIT AND CONDUCT BE PERMITTED TO PENETRATE THIS A			78" MAX	16" AF
	1. 12 AWG IS MIN. CONDUCTOR SIZE, EXCEPT AS NOTED.	20A, 120V 10 AWG 100 FEET 20A, 120V 8 AWG 175 FEET 20A, 277V 10 AWG 200 FEET			Pro-	3-1/2" CONCRETE FLOOR CURB FOR UNDERGROUND CONDUIT PENETRAT		FINISHED FLOOR		
2:37 AM	 1/2" CONDUIT IS MIN. SIZE, EXCEPT AS CAPACITY PERMITTING 24 VOLT CONTROL CONDUCTOR. PROVIDE DEDICATED NEUTRALS. 				EQUIRE TO BE CENTERED ON	(SURFACE MOUNTED PANELBOARDS	JINLY)	SYSTEMS PLAN POWER	• 	
25 8:52					× /	A. REFER TO NEC SECTION 110.26 F B. COORDINATE ALL WORK WITH O		ION. SYMBOL: POWER		

1 KEY TO ELECTRICAL CIRCUIT WIRING

2 E1.1

CLEARANCE TO FRONT OF PANELBOARD. A8" WHEN PANEL FED AT 480V. WORKING CLEARANCE ZONE. LUMINAIRES, PIPING, DUCTWORK OR OTHER ITEMS SHALL NOT BE INSTALLED IN THIS ZONE. 30" DOES NOT REQUIRE TO BE CENTERED ON PANEL. BUT MUST INCLUDE ENTIRE PANEL.	DEDICATED ELECTRICAL SPACE TO STRUCTURAL CEILING OR HARD CEILING. ONLY ELECTRICAL CONDUIT AND CONDUCTORS SHALL BE PERMITTED TO PENETRATE THIS AREA. SURFACE MOUNTED OR RECESSED PANELBOARD DEDICATED ELECTRICAL SPACE TO FLOOR. ONLY ELECTRICAL CONDUIT AND CONDUCTORS SHALL BE PERMITTED TO PENETRATE THIS AREA. 3-1/2" CONCRETE FLOOR CURB FOR UNDERGROUND CONDUIT PENETRATIONS. (SURFACE MOUNTED PANELBOARDS ONLY) GENERAL NOTES: A. REFER TO NEC SECTION 110.26 FOR MORE INFORMATION.	NOTES: 1. HEIGHTS REFER TO 2. NOT ALL SYMBOLS FOR ADDITIONAL M PANELBOARD FINISHED FLOO PLAN SYMBOL:
PANEL. BUT MUST INCLUDE ENTIRE PANEL.		
PANELBOARD CLEARANCES		3 E1.1 ELECTRICAL MOUNTIN

TECHNOLOGY OUTLET SYMBOLS

	DUITS FOR TECHNOLOGY OUTLETS ABOVE ACCESSIBLE CEILING, UNO. PROVIDE PULL S NG ON END OF EACH CONDUIT. PROVIDE COVERPLATE FOR UNUSED BOXES.	STRING AI	ND			
SYMBOL	DESCRIPTION	MOU LOC.	NTING HT.			
\bigtriangledown	DATA OUTLET. 2-GANG, 3.5" DEEP BOX WITH 2-GANG EXTENSION RING. PROVIDE ONE (1) 1-1/4" CONDUIT.	WALL	16",			
▼	VOICE & DATA OUTLET. 2-GANG, 3.5" DEEP BOX WITH 2-GANG EXTENSION RING. PROVIDE ONE (1) 1-1/4" CONDUIT.	VVALL	UNO			
•	✓ VOICE OUTLET. 2-GANG, 3.5" DEEP BOX WITH 1-GANG EXTENSION RING. PROVIDE ONE (1) 1" CONDUIT.					
⊅ ⊔	LOCAL INPUT OUTLET. 2-GANG, 3.5" DEEP BOX WITH 2-GANG EXTENSION RING. PROVIDE ONE (1) 1-1/4" CONDUIT.	WALL	16", UNO			
V IFP	INTERACTIVE FLAT PANEL OUTLET. 2-GANG, 3.5" DEEP BOX WITH 2-GANG EXTENSION RING. PROVIDE ONE (1) 1-1/4" CONDUIT.	WALL	44"			
⊲ LVP	LARGE VENUE PROJECTOR OUTLET. 2-GANG, 3.5" DEEP BOX WITH 2-GANG EXTENSION RING. PROVIDE TWO (2) 1-1/4" CONDUIT.	WALL	AS NOTED			
⊲ SA	GYMNASIUM AUDIO SYSTEM OUTLET. 2-GANG, 3.5" DEEP BOX WITH 2-GANG EXTENSION RING. PROVIDE TWO (2) 1-1/4" CONDUIT.					
⊲ SP	STAGE PRESENTER OUTLET. 2-GANG, 3.5" DEEP BOX WITH 2-GANG EXTENSION RING. PROVIDE TWO (2) 1-1/4" CONDUIT.	WALL	16"			
⊲ TPC	TEACHER PERSONAL COMPUTER OUTLET. 2-GANG, 3.5" DEEP BOX WITH 2-GANG EXTENSION RING. PROVIDE TWO (2) 1-1/4" CONDUIT.					
⊲ SR	SOUND REINFORCEMENT OUTLET. 4-11/16", 3.5" DEEP BOX WITH 2-GANG EXTENSION RING. PROVIDE TWO (2) 1-1/4" CONDUIT.	WALL	44"			
	VIDEO MONITOR OUTLET. 2-GANG, 3.5" DEEP BOX WITH 2-GANG EXTENSION RING. PROVIDE ONE (1) 1-1/4" CONDUIT.	WALL	96", UNO			
🗸 сам	CAMERA OUTLET. 2-GANG, 3.5" DEEP BOX WITH 1-GANG EXTENSION RING. PROVIDE ONE (1) 1" CONDUIT. PROVIDE WEATHERPROOF COVERPLATE FOR EXTERIOR APPLICATIONS.	WALL	144",			
⊲ WAP	WIRELESS ACCESS POINT OUTLET. 2-GANG, 3.5" DEEP BOX WITH 1-GANG EXTENSION					

AUDIO DEVICE SYMBOLS

SYMBOL	DESCRIPTION	MOUN LOC.	NTING HT.			
PA	PUBLIC ADDRESS SOUND SYSTEM RACK.					
SD	STUDENT DINING SOUND SYSTEM RACK.					
GS	GYMNASIUM SOUND SYSTEM RACK.	FLOOR	N/A			
PR	PORTABLE SOUND SYSTEM RACK.					
MS	MUSIC/VOCAL ROOM SOUND SYSTEM RACK.					
	HANGING MICROPHONE PROVIDED BY DIVISION 28. DIVISION 26 TO PROVIDE CEILING MOUNTED JUNCTION BOX AND RACEWAY AS REQUIRED. COORDINATE WITH DIVISION 28.					
ΗΞ	MICROPHONE OUTLET. 1-GANG, 3.5" DEEP BOX WITH 1-GANG EXTENSION RING. PROVIDE 1" CONDUIT TO ABOVE ACCESSIBLE CEILING WITH PULL WIRE. PROVIDE PLASTIC BUSHING ON END OF CONDUIT.	WALL	16", UNO			
A/M	AUXILIARY/MICROPHONE OUTLET. 2-GANG, 3.5" DEEP BOX WITH 1-GANG EXTENSION RING. PROVIDE 1" CONDUIT TO ABOVE ACCESSIBLE CEILING WITH PULL WIRE. PROVIDE PLASTIC BUSHING ON END OF CONDUIT.	OVE ACCESSIBLE CEILING WITH PULL				
3	SPEAKER FOR PA SYSTEM, UNO. PROVIDE ROUGH-IN AND RACEWAY AS REQUIRED IN HARD CEILINGS. COORDINATE WITH DIVISION 27.	HARD	N/A			
R	SPEAKER FOR LOCAL SOUND REINFORCEMENT. PROVIDE ROUGH-IN AND RACEWAY AS REQUIRED IN HARD CEILINGS. COORDINATE WITH DIVISION 27.					
65	SPEAKER FOR STUDENT DINING SOUND SYSTEM PROVIDED BY DIVISION 27. DIVISION 26 TO PROVIDE JUNCTION BOX AT SPEAKER LOCATION AND PATHWAYS AS REQUIRED. COORDINATE WITH DIVISION 27.		SEE			
6	SPEAKER FOR GYMNASIUM SOUND SYSTEM PROVIDED BY DIVISION 27. DIVISION 26 TO PROVIDE JUNCTION BOX AT SPEAKER LOCATION AND PATHWAYS AS REQUIRED. COORDINATE WITH DIVISION 27.	VARIES	PLANS			
S	SPEAKER FOR PA SOUND SYSTEM. PROVIDE 3/4" CONDUIT FROM CUSTOM BACK BOX, PROVIDED BY DIVISION 27, TO ABOVE ACCESSIBLE CEILING, PROVIDE PULL STRING AND PLASTIC BUSHING ON END OF CONDUIT.		144",			
<u>کر</u>	HORN TYPE SPEAKER PROVIDED BY DIVISION 28. PROVIDE 1-GANG, 3.5" DEEP BOX WITH 1-GANG EXTENSION RING. PROVIDE 3/4" CONDUIT WITH PULL STRING TO ABOVE ACCESSIBLE CEILING. PROVIDE PLASTIC BUSHING ON END OF CONDUIT.	WALL	UNO			
\Box	SOUND SYSTEM SPEAKER. PROVIDE ROUGH-IN AS REQUIRED FOR INSTALLATION. COORDINATE WORK WITH DIVISION 28.	VARIES	SEE PLANS			
H●	CALL-IN SWITCH FOR PA SYSTEM. PROVIDE 1-GANG, 3.5" DEEP BOX WITH 1-GANG EXTENSION RING. PROVIDE 3/4" CONDUIT WITH PULL STRING TO ABOVE ACCESSIBLE CEILING. PROVIDE PLASTIC BUSHING ON END OF CONDUIT.	14/011	44"			
ŝ	VOLUME CONTROL FOR PA SYSTEM. PROVIDE 1-GANG, 3.5" DEEP BOX WITH 1-GANG EXTENSION RING. PROVIDE 3/4" CONDUIT WITH PULL STRING TO ABOVE ACCESSIBLE CEILING. PROVIDE PLASTIC BUSHING ON END OF CONDUIT.	WALL	44			
∢	ADMINISTRATIVE CONSOLE FOR PA SYSTEM. PROVIDE BACK BOX AND PATHWAY AS REQUIRED FOR INSTALLATION. COORDINATE WITH DIVISION 28.	VARIES	SEE PLANS			

ELECTRICAL SHEET INDEX

SHEET NAME

E1.1 GENERAL NOTES, ABBREVIATIONS, LEGENDS AND SHEET INDEX E1.2 ELECTRICAL DETAILS E2.1 SITE ELECTRICAL PLAN E3.1 ELECTRICAL FLOOR PLANS E4.1 ONE-LINE DIAGRAM, LUMINAIRE AND PANEL SCHEDULES

ELECTRICAL GENERAL NOTES

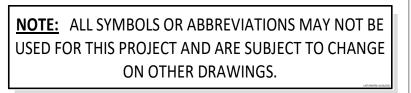
SHEET

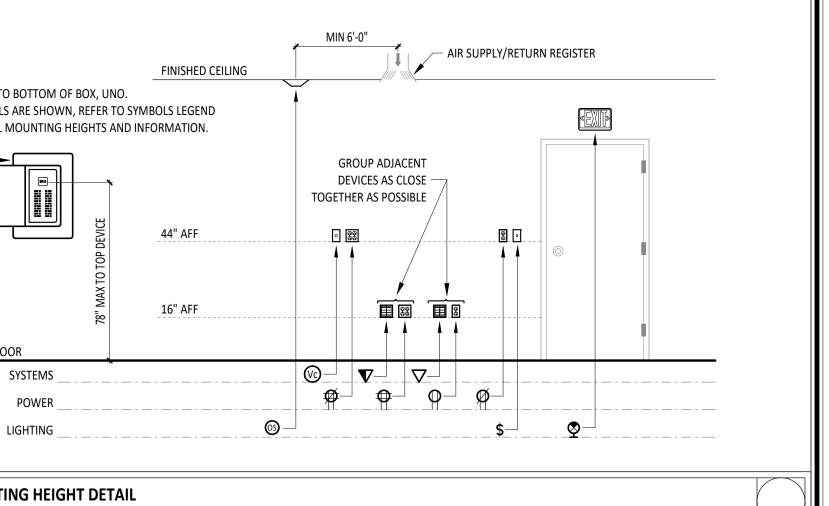
NUMBER

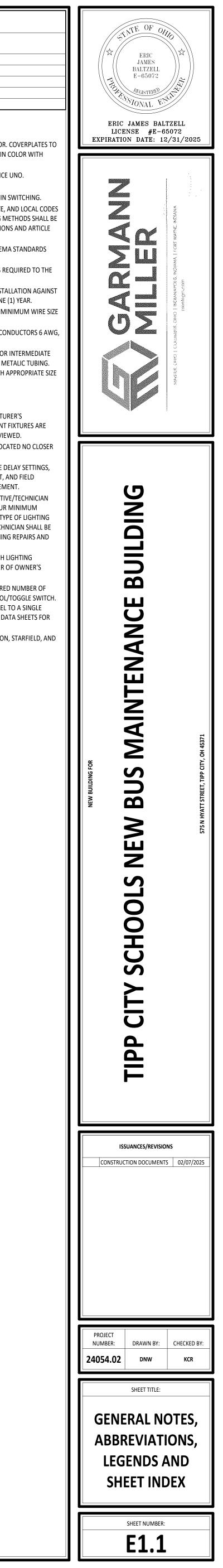
- A ALL GENERAL WALL MOUNT WIRING DEVICES TO BE GREY IN COLOR. COVERPLATES TO BE STAINLESS STEEL. CEILING MOUNT RECEPTACLES TO BE WHITE IN COLOR WITH WHITE, NYLON, UNBREAKABLE COVERS.
- B ALL MOUNTING HEIGHTS REFER TO THE BOTTOM OF BOX OR DEVICE UNO. C ALL CONDUIT TO BE CONCEALED.
- D TICK MARKS ON LIGHTING PLAN CIRCUITING INDICATE A CHANGE IN SWITCHING. E ALL WORK SHALL CONFORM TO THE 2023 N.E.C., NATIONAL, STATE, AND LOCAL CODES
- WHICH APPLY. THE FUEL ISALND AND MAINTENANCE BAY WIRING METHODS SHALL BE IN STRICT CONFORMANCE WITH ARTICLE 500 HAZARDOUS LOCATIONS AND ARTICLE 514 MOTOR FUELING DISPENSING FACILITIES OF THE NEC 2023. F ALL MATERIAL AND EQUIPMENT SHALL CONFORM TO U.L. AND NEMA STANDARDS WHICH APPLY.
- G THIS CONTRACTOR SHALL PAY ALL FEES AND OBTAIN ALL PERMITS REQUIRED TO THE EXECUTION OF HIS WORK.
- H THIS CONTRACTOR SHALL GUARANTEE HIS ENTIRE ELECTRICAL INSTALLATION AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR. I WIRE SIZES BASED ON AWG (AMERICAN WIRE GAUGE) OR KCMIL, MINIMUM WIRE SIZE
- SHALL BE 12 AWG, UNO. CONDUCTORS SHALL BE TYPE 'THHN/THWN' STRANDED COPPER. CONDUCTORS 6 AWG,
- AND LARGER, MAY BE COPPER OR ALUMINUM. K EXPOSED EXTERIOR CONDUIT SHALL BE RIGID GALVANIZED STEEL OR INTERMEDIATE GRADE METAL CONDUIT. INTERIOR CONDUIT MAY BE ELECTRICAL METALIC TUBING. CONDUIT BURIED BELOW GRADE SHALL BE SCHEDULE 40 PVC WITH APPROPRIATE SIZE GREEN GROUND WIRE UNO.

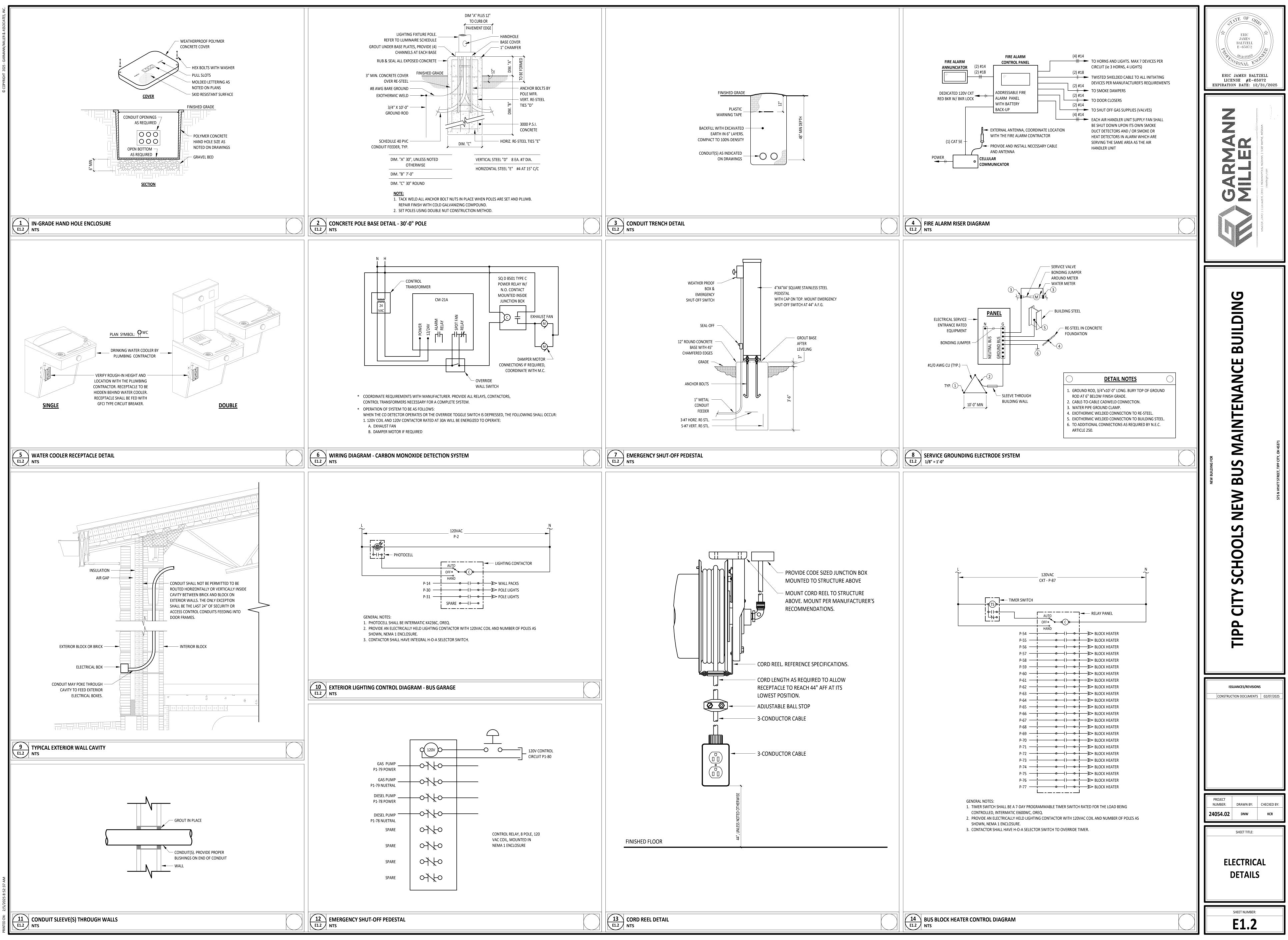
ELECTRICAL LIGHTING CONTROL GENERAL NOTES

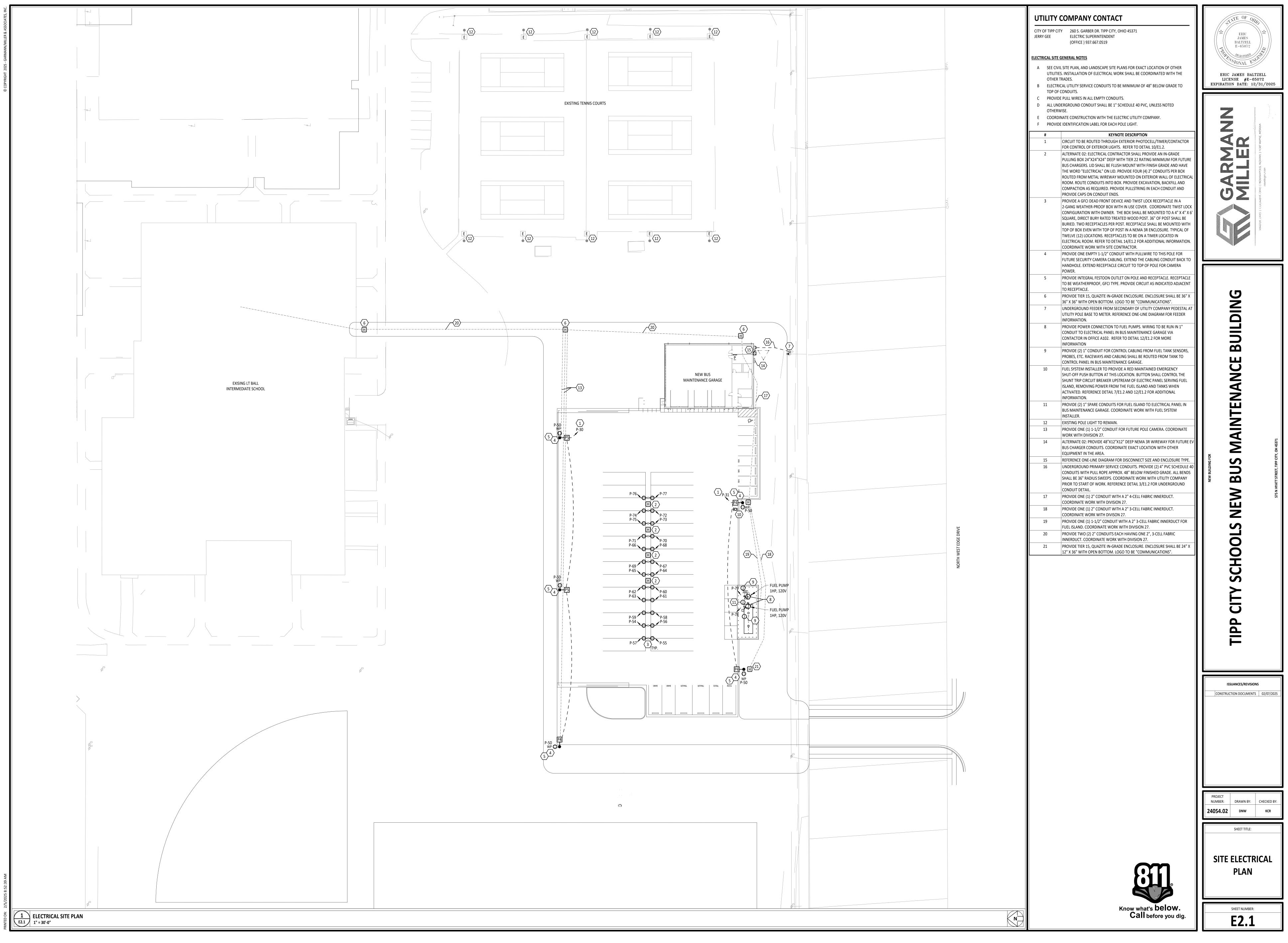
- A ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION. IF PENDANT FIXTURES ARE PRESENT, LOCATION AND COVERAGE OF SENSORS SHOULD BE REVIEWED. B ULTRASONIC CEILING MOUNT SENSORS REQUIRE THAT THEY BE LOCATED NO CLOSER THAN 6' TO AIR SUPPLY/RETURN REGISTERS.
- CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS, VERIFICATION OF MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
- D CONTRACTOR SHALL PROVIDE A LIGHTING CONTROL REPRESENTATIVE/TECHNICIAN FOR INITIAL SET-UP OF LIGHTING CONTROL SYSTEMS. ONE (1) HOUR MINIMUM DEMONSTRATION AND TRAINING SHALL BE PROVIDED FOR EACH TYPE OF LIGHTING CONTROL SYSTEM. THE LIGHTING CONTROL REPRESENTATIVE/TECHNICIAN SHALL BE REQUIRED TO MAKE A SECOND SITE VISIT FOR POST COMMISSIONING REPAIRS AND ADJUSTMENTS.
- CONTRACTOR SHALL PROVIDE ALL REQUIRED SOFTWARE FOR EACH LIGHTING CONTROL SYSTEM. SOFTWARE SHALL BE INSTALLED ON COMPUTER OF OWNER'S CHOICE. COORDINATE WITH OWNER.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER PACKS. ONE POWER PACK IS REQUIRED FOR EACH CONTROL/TOGGLE SWITCH. MAXIMUM NUMBER OF SENSORS THAT CAN BE WIRED IN PARALLEL TO A SINGLE POWERPACK IS DEPENDENT ON SENSOR MODEL (SEE INDIVIDUAL DATA SHEETS FOR mA CONSUMPTION).
- G EQUALS BY LEVITON, WATTSTOPPER, CRESTRON, NOVITALS, LUTRON, STARFIELD, AND COOPER.

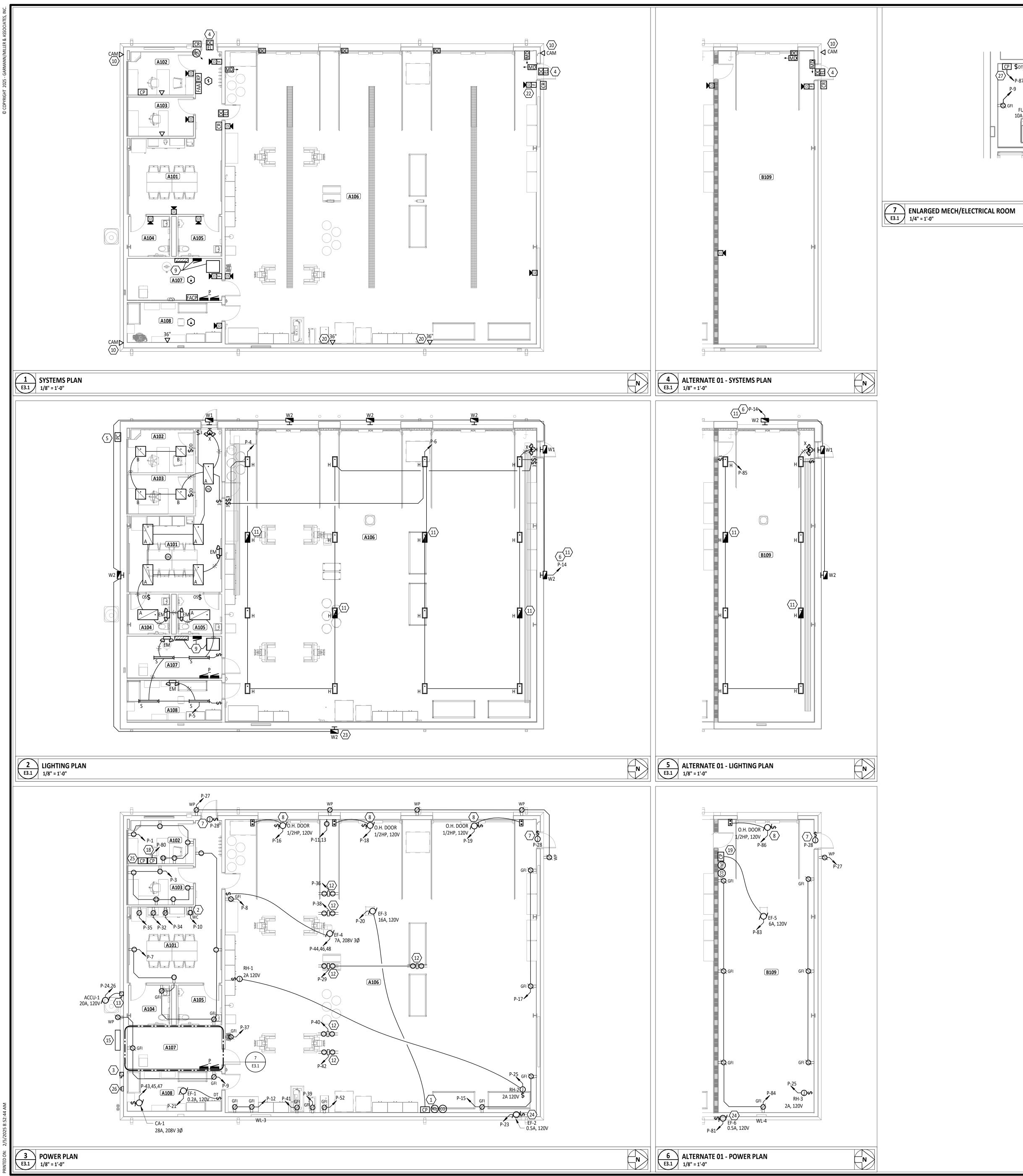








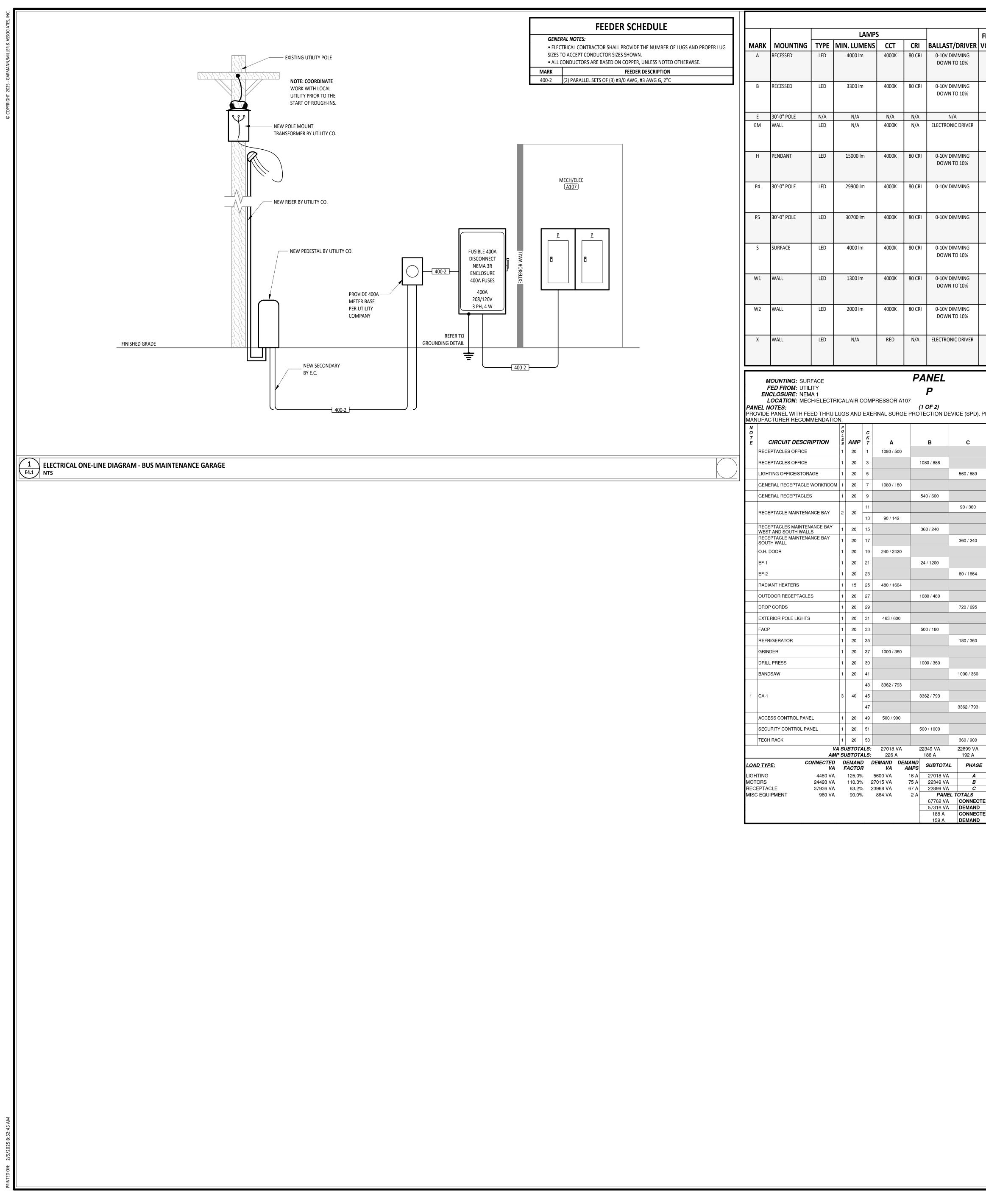




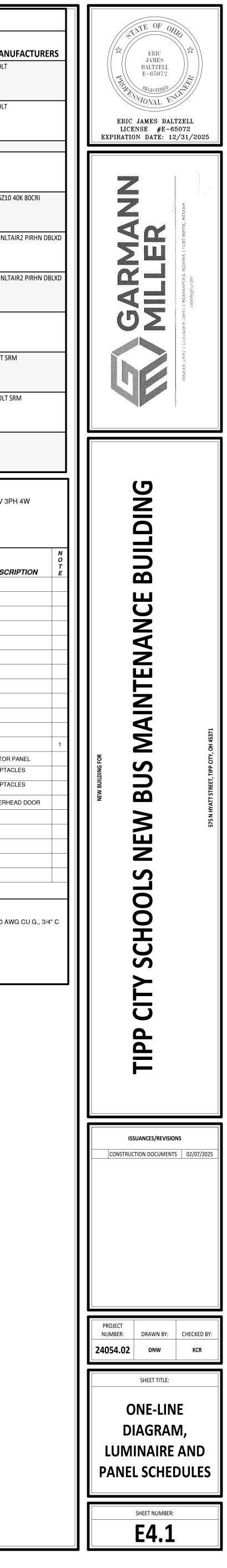
ROOM NUMBER	ROOM NAME	
A101	WORKROOM	+
A102 A103	OFFICE OFFICE	+
A104 A105	UNISEX RESTROOM UNISEX RESTROOM	+
A106	MAINTENANCE BAY	+
A107 A107	MECH/ELECTRICAL/AIR COMPRESSOR WORKROOM	+
A107 A108	STORAGE	<u> </u>
SYSTEMS G	ENERAL NOTES	
	HERE DEVICES ARE SHOWN UNDER CABINETS, CASEWORK, FURNITURE AN EFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT SO THAT DI	
SI	HALL BE LOCATED WITHIN KNEE SPACE OR OPEN AREA.	
E	LL LOW VOLTAGE CABLING FOR THE SCOPE OF WORK BY DIVISION 26, 27, POSED CEILING SPACES SHALL BE ROUTED INSIDE CONDUIT. COORDINATI	ΕV
	ISTALLER OF EACH SYSTEM PRIOR TO ROUGH-IN. PAINT CONDUIT TO MAT JRROUNDING AREA.	CH
СС	ONDUIT IN EXPOSED CEILING SPACES SHALL BE CONCEALED INSIDE WALLS ONDUIT SHALL ONLY BE ALLOWED IN JOIST SPACE NEAR ROOF.	. Е
D A	LL CONDUIT ENDS FOR CABLING NOT CONNECTED TO A BOX OR FITTING S	HA
	ROVIDED WITH NYLON BUSHINGS TO PROTECT CABLING FROM DAMAGE. LL MOUNTING HEIGHTS REFER TO BOTTOM OF BOX, UNO.	
LIGHTING	GENERAL NOTES	
A R	EFER TO ARCHITECTURAL REFLECTED CEILING PLANS ON THE A5 SERIES DR	۱A
	DR ADDITIONAL INFORMATION AND EXACT LOCATION OF LUMINAIRES. ERIFY EXACT LOCATION OF ALL LIGHT SWITCHES AND CONTROLS DEVICES	w
A	RCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.	
S	NITCHES SHALL BE INSTALLED UNDER A COMMON FACEPLATE.	
	RCUIT ALL EMERGENCY LIGHTS, NIGHT LIGHTS (IF APPLICABLE) AND EXIT L N UNSWITCHED HOT CONDUCTOR, UPSTREAM OF ALL CONTROLS.	_10
E R	FFR TO SHEET E4.1 FOR LUMINAIRE SCHEDULE AND ADDITIONAL INFORM	
N	LL LIGHTING CONTROL DEVICES, RELAYS, ETC. ABOVE LAY-IN CEILINGS SHA ARKED WITH A BLACK 3/4" DIAMETER, PRESSURE-SENSITIVE ADHESIVE PA	
G A	LL MOUNTING HEIGHTS REFER TO BOTTOM OF LIGHT FIXTURE, UNO.	
POWER GE	NERAL NOTES	
	HERE DEVICES ARE SHOWN UNDER CABINETS, CASEWORK, FURNITURE AN EFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT SO THAT DI	
SI	IALL BE LOCATED WITHIN KNEE SPACE OR OPEN AREA. ASEWORK INSTALLER SHALL CUT HOLES IN CASEWORK FOR RECEPTACLES,	
E	IC., UNLESS NOTED OTHERWISE.	
	LL CONDUCTORS FOR EQUIPMENT CONNECTIONS SHALL BE COPPER UNLE THERWISE AND APPROVED BY THE MANUFACTURER.	S
	OORDINATE WITH ALL OTHER TRADES TO MAINTAIN ALL REQUIRED CLEAR BOUT ELECTRICAL EQUIPMENT WITH ACCORDANCE TO THE NATIONAL ELE	
C	DDE.	
E	EFER TO MECHANICAL, PLUMBING, AND OTHER APPLICABLE DRAWINGS F(QUIPMENT LOCATIONS.	
	AINTAIN ALL FIRE RATINGS WHERE CONDUIT PENETRATES WALL, CEILING OORS WITH ONLY U.L. LISTED FIRE ASSEMBLIES.	S,
	LL MOUNTING HEIGHTS REFER TO BOTTOM OF BOX, UNO.	
#	KEYNOTE DESCRIPTION	_
1	PROVIDE A SELF-CONTAINED CO/NO DETECTION SYSTEM EQUAL TO SERIES. PROVIDE AN OVERRIDE SWITCH, RELAYS AND CONTACTORS	
	A COMPLETE SYSTEM. CONTROL PANEL SHALL BE INTERCONNECTED	D
	AND LOUVER WL-3. COORDINATE WITH MECHANICAL CONTRACTOR DETAIL 6/E1.2 FOR OPERATION DETAILS.	
2	RECEPTACLE FOR WATER COOLER, COORDINATE EXACT MOUNTING OF RECEPTACLE WITH PLUMBING CONTRACTOR. REFERENCE DETAI	
3	PROVIDE 400A, 208V, 3-POLE HEAVY DUTY DISCONNECT IN NEMA 3	3F
	ENCLOSURE FOR MAIN ELECTRICAL SERVICE. REFERENCE ONE-LINE AND SITE PLAN FOR MORE INFORMATION.	
4	DOOR PROVIDED WITH ELECTRIC STRIKE AND POWER PACK BY DOC HARDWARE SUPPLIER. DIVISION 26 TO PROVIDE POWER TO POWER	R
	ABOVE CEILING, BACK BOXES, RACEWAYS, BUSHINGS AND PULL STE CABLING FROM ABOVE CEILING/POWER PACK TO ELECTRIC STRIKE	RI
	FRAME. CABLING BY SECURITY/ACCESS CONTROL CONTRACTOR. CC WORK WITH DOOR HARDWARE INSTALLER AND SECURITY/ACCESS)(
	CONTRACTOR. REFERENCE DETAIL 3 ON THIS SHEET FOR 120-VOLT	
5	REQUIREMENTS. PROVIDE EXTERIOR PHOTOCELL AT 15'-0" AFF, FACING NORTH. MO	U
6	WEATHERPROOF JUNCTION BOX. REFERENCE DETAIL 10/E1.2. CIRCUIT TO BE ROUTED THROUGH EXTERIOR PHOTOCELL/TIMER/CO	0
7	FOR CONTROL OF EXTERIOR LIGHTS. REFER TO DETAIL 10/E1.2. PROVIDE POWER CONNECTION ABOVE CEILING FOR ELECTRIC STRIK	
	PACK(S), TRANSFORMER(S) AND ACCESS CONTROL PANEL(S). REFER	REI
8	FOR EXACT QUANTITIES. PROVIDE CIRCUIT AS INDICATED ADJACEN OVERHEAD DOOR MOTOR IS SIDE MOUNTED. PROVIDE NECESSARY	' P
	CONTROL CONNECTIONS TO MOTOR. COORDINATE WITH G.C. AND DOOR INSTALLER.	(
9	FUTURE EQUIPMENT FOR ELECTRIC BUS CHARGERS. SHOWN FOR R ONLY.	Eſ
10	PROVIDE SINGLE GANG, FLUSH MOUNTED JUNCTION BOX ON EXTE	
	BUILDING WITH 1" CONDUIT STUBBED TO INSIDE. MOUNT THE BO SLEEVE ABOVE THE CEILING FOR EXTERIOR CAMERA/WAP. PROVID	E
	BUSHING ON END OF CONDUIT AND WEATHERPROOF BLANK COVE EXTERIOR BOX. CAMERA LOCATION IS CRITICAL. ROUTE CONDUIT	
	HORIZONTALLY AS REQUIRED TO AVOID STRUCTURE. REFERENCE TO DRAWINGS FOR MORE DETAILS. COORDINATE WORK WITH TECHNO	
	CONTRACTOR PRIOR TO ROUGH-IN.	
11	SHADED FIXTURE TO BE PROVIDED WITH INTEGRAL BATTERY BACKU MINUTE MINIMUM. PROVIDE SWITCH LEG FOR CONTROL AND UNS	
12	CIRCUIT FOR POWER MONITORING. PROVIDE CORD REEL FROM ABOVE DOWN TO EQUIPMENT LOCATIO	<u> </u>
	REFERENCE DETAIL 13/E1.2.	
13 14	PROVIDE 30A, 208V, 3-POLE HEAVY DUTY DISCONNECT IN NEMA 3F DIGITAL TIMER SWITCH FOR BUS BLOCK HEATERS.	<u>،</u>
15	ALTERNATE 02: METAL WIREWAY FOR FUTURE EV BUS CONDUITS. F SITE PLAN FOR ADDITIONAL INFORMATION.	RI
16	PROVIDE POWER FOR SECURITY AND ACCESS CONTROL PANEL. COC WORK WITH TECHNOLOGY CONTRACTOR.))
17	RECEPTACLE FOR TECHNOLOGY RACK. COORDINATE EXACT LOCATIO	0
18	TECHNOLOGY CONTRACTOR. PROVIDE POWER AND LV RACEWAYS FOR FUEL ISLAND MONITOR P	
	MOUNTED 44" AFF. FUEL SYSTEM INSTALLER TO PROVIDE PANEL. R ELECTRICAL SITE PLAN AND FUEL ISLAND PLANS. COORDINATE WOR	RE
19	SYSTEM INSTALLER. PROVIDE A SELF-CONTAINED CO/NO DETECTION SYSTEM EQUAL TO	
	ARMSTRONG AMC-1AVC. PROVIDE AN OVERRIDE SWITCH, RELAYS CONTACTORS NEEDED FOR A COMPLETE SYSTEM. CONTROL PANEL	A
	INTERCONNECTED TO EF-5 AND LOUVER WL-4. COORDINATE WITH	ſ
20	CONTRACTOR. REFERENCE DETAIL 6/E1.2 FOR OPERATION DETAILS. ROUTE CONDUIT TO ABOVE ACCESSIBLE CEILING.	
21 22	BOTTOM OF PANELBOARD TO BE 18" AFF OR HIGHER. BASE BID: HORN STROBE WITH PULL STATION. ALTERNATE 01: HOR	-
23	ALTERNATE 01: MOUNT FIXTURE AT THE CENTER OF THE BUILDING	
24 25	EXHAUST FAN TO RUN 24/7. CONTACTOR FOR FUEL ISLAND POWER. REFER TO DETAIL 12/E1.2 F	-(
26	UTILITY METER.	_
26	BUS BLOCK HEATER CIRCUITS TO BE ROUTED THROUGH CONTACTS PANEL AND CONTROLLED BY DIGITAL TIMER. REFERENCE DETAIL 14	
	THANKS AND CONTROLLED BY DICITAL TIMED DEFEDENCE DETAIL 14	1

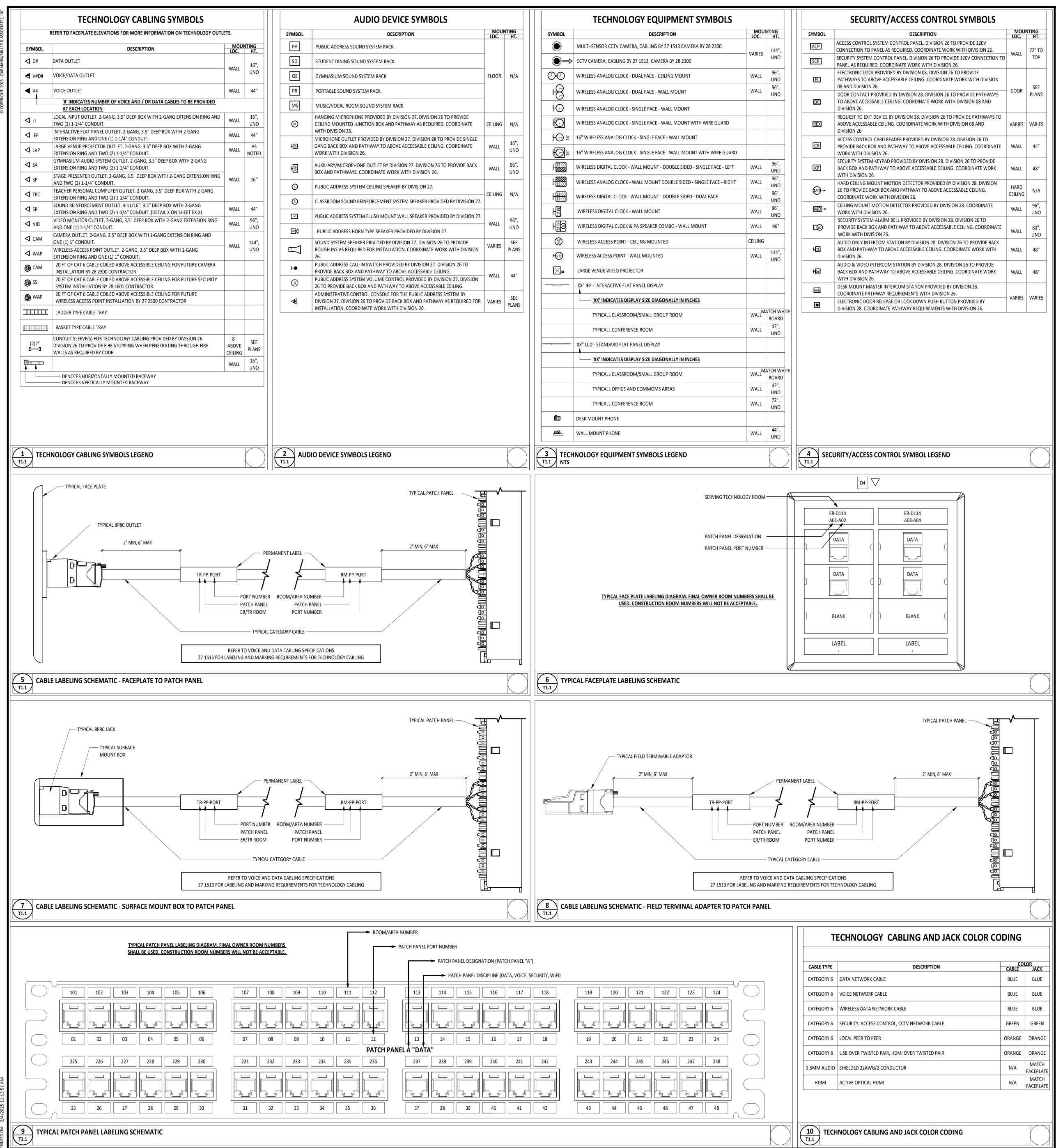
CP \$DT(14) FQ. FURN-1 10A<u>120</u>V

	AREA 368 SF 110 SF 101 SF 65 SF 69 SF 3,608 SF 156 SF	ERIC JAMES BALTZELL ERIC JAMES BALTZELL
	156 SF Not Placed 149 SF	LICENSE #E-65072 EXPIRATION DATE: 12/31/2025
URNITURE AN T SO THAT DE SION 26, 27, A COORDINATE DUIT TO MATC NSIDE WALLS. F. OR FITTING SF M DAMAGE. A5 SERIES DR/ MINAIRES. OLS DEVICES V INGLE LOCATIO E. E) AND EXIT LI ROLS. DNAL INFORM. CEILINGS SHAI ADHESIVE PAI	VICES	<text><text><text></text></text></text>
E, UNO. URNITURE AN T SO THAT DE ECEPTACLES, I COPPER UNLES UIRED CLEAR/ IATIONAL ELEC DRAWINGS FC 'ALL, CEILINGS 'ALL, CEILINGS CONTACTORS RCONNECTED CONTACTORS	VICES DEVICES, DEVICES, SINOTED ANCES CTRICAL RESACT AND AND ACME CEL NEEDED FOR TO EF-3 REFERENCE LOCATION S/E1.2. R DIAGRAM S/E1.2. R DIAGRAM S/CNTROL OOR ONTROL OOR ONTROL OOR ONTROL OWER NDOOR ONTROL OWER AND CONTROL OWER SONTROL OWER AND CONTROL OWER AND CONTROL OWER AND CONTROL OWER SINT TO DIAGRAM SFOR NDOOR ORDINATE CONTROL OWER AND CONTROL OVERHEAD FERENCE SFOR CHNOLOGY N.	TIPP CITY SCHOOLS NEW BUS MAINTENANCE BUILDING
CONDUITS. R		
XACT LOCATIC D MONITOR P/ IDE PANEL. RE RDINATE WOR EM EQUAL TO TCH, RELAYS A ITROL PANEL : DINATE WITH I ION DETAILS.	ON WITH ANEL FFERENCE K WITH FUEL ND SHALL BE MECHANICAL	CONSTRUCTION DOCUMENTS 02/07/2025
HE BUILDING. AIL 12/E1.2 F(H CONTACTS		PROJECT NUMBER: DRAWN BY: CHECKED BY: 24054.02 DNW KCR
CE DETAIL 14/		SHEET TITLE: ELECTRICAL FLOOR PLANS
		SHEET NUMBER: E3.1



				LUN	ЛIN	AIRE SCH	IED	ULE											
	FIXTUR /OLTAG		INPL NAT		XTUR	E DESCRIPT	ION					<u> </u>	COMMENTS		BASIS)E D	FSIGN	12	APPROVED MANU
11NG 10%	UNV		37 W					E FINISH, U.L. LISTED				FIX EN P	TURE SETTINGS: ACKAGE - LOW LUN TEMPATURE - 4000		LITHONIA (DAYBRITE METALUX	CPX 2 SBP 5 FPS 5	X4 AL08 SERIES SERIES		CRI SWW7 SWL MVOLT
11NG 10%	UNV		30 V	/ 2FT X 2FT LED PLAT PANE	2FT X 2FT LED PLAT PANEL, WHITE FROST LENS,					L		I PA(CTURE SETTINGS: CKAGE - MEDIUM LL TEMPATURE - 4000		COLUMBIA LITHONIA (DAYBRITE METALUX COLUMBIA	CPX 2 SBP 5 FPS 5	X2 AL07 SERIES SERIES	800	CRI SWW7 SWL MVOLT
RIVER	N/A UNV		1 W 1 W	WHITE THERMOPLASTIC LED	EXISTING FIXTURE TO REMAIN. WHITE THERMOPLASTIC LED BATTERY PACK LUMINAIRE, UNIVERSAL MOUNTING, WHITE HOUSING. U.L. LISTED CONNECT TO LOCAL LIGHTING CIRCUT AHEAD OF SWITCHING 90 MINUTE BATTERY BACK-UP. MOUNT FIXTURE 8'-0" AFF UNO.							LITHONIA I EXITRONIX SURE-LITES COMPASS	QM APE	L SERIES					
11NG 10%	UNV		105 \	,		CHANNEL, GLAR IITE FINISH, CSA,					гом (OF S	RDWARE NECESSAR TRUCTURAL STEEL. F FOR SHADED FIXTUR	PROVIDE EMERGEN	LITHONIA (CPHB FCY S SPHE	15000L Series Series		EF GCL MD MVOLT GZ10
1ING	UNV		220 \	IV DISTRIBUTION, NIGHT-TIP	ME FRI		ATED N	10TION SENSOR, BLACK	FIXTURE. PR	OVID	E VIBF VER. F	RATI(REFE	STRAIGHT STEEL POI ON DAMPER, BASE (RENCE DETAIL 2/E1. INDATION DETAIL.	COVER, TOP CAP, AN)PF-N PRV S	4 SERIES ERIES		RI T4M MVOLT RPA NLTA
1ING	UNV		220 \	DISTRIBUTION, NIGHT-TIME FF	RIENDL		ΜΟΤΙΟ	-	FIXTURE. PR	OVID	E VIBF VER. F	RATI(REFE	STRAIGHT STEEL POI ON DAMPER, BASE (RENCE DETAIL 2/E1. INDATION DETAIL.	OVER, TOP CAP, AN)PF-N PRV S	1 SERIES ERIES		RI T5M MVOLT RPA NLTA
11NG 1.0%	UNV		35 V		T, HIGH	H-GLOSS, BAKED	WHIT	E ENAMEL LENS					IT FIXTURE 9'-6" AFF		DAYBRITE METALUX ILP SS4 SE	FSS S SNX : RIES	ERIES SERIES		OLT SWW3 80CRI
11NG 10%	UNV		15 V	GASKETED DIE-CAST DOOR	FRAM	E, BLACK FINISH	I, U.L. \	VET LOCATION LISTED.				SH	FF. PROVIDE EMERG ADED FIXTURES.		GARDCO C HEPER USA BEACON R	GWM LW WL1	SERIES 6048 SE SERIES	RIES	
11NG 1.0%	UNV		15 V	GASKETED DIE-CAST DOOR	FRAM	E, BLACK FINISH	I, U.L. \	VET LOCATION LISTED.				SH	AFF. PROVIDE EMER ADED FIXTURES.		GARDCO C HEPER USA BEACON R	GWM LW WL1	SERIES 6048 SE SERIES		OK 80CRI TFTM MVOLT S
RIVER	UNV		3 W	WHITE THERMOPLASTIC LED EX WITH 3/4" STROKE (100' MII									TING CIRCUT AHEAI -UP. MOUNT FIXTUI		LITHONIA I EXITRONIX SURE-LITES COMPASS	QCF AP(T SERIES / APX S		ES
E (SPD).	MA	V NNS MAII	OLTA RAT NS TY OTH	ING: 10,000 IGE: 208Y/120V 3PH 4W ING: 400 A IPE: 400 A MCB IER: I BREAKER SIZE PER			PAN	<i>Mounting:</i> Surf <i>Fed From:</i> P <i>Enclosure:</i> Nema <i>Location:</i> Mech <i>Iel Notes:</i>	1	AL/A	IR C	OM		PANEL P (2 OF 2)		I	V NAINS	OL' RA NS	I TING: 10,000 T AGE: 208Y/120V 3P I TING: 400 A T YPE: MLO THER:
с		MP	P O L E S	CIRCUIT DESCRIPTION	N O T E		N O T E	CIRCUIT DESCRI			MP	C K T	Α	В	с	C K T	AMP	-	CIRCUIT DESCR
		20 20		GHTING CONTROL PANEL			-	BLOCK HEATER BLOCK HEATER				55 57	900 / 900	900 / 900		56 58	20 20		BLOCK HEATER
60 / 889		20 20	, RE	GHTING MAINTENANCE BAY SOUTH				BLOCK HEATER		+		59 61	900 / 900		900 / 900	60 62	20 20		BLOCK HEATER
		20	1 RE	DRTH WALL ECEPTACLE MAINTENANCE BAY 06			╞	BLOCK HEATER		_		63	3007300	900 / 900		64	20		BLOCK HEATER
90 / 360	12	20	' w	ECEPTACLES MAINTENANCE BAY EST WALL				BLOCK HEATER		1 2	20	65			900 / 900	66	20	1	BLOCK HEATER
		20 20		GHTING H. DOOR				BLOCK HEATER	· · · · · · · · · · · · · · · · · · ·	+		67 69	900 / 900	900 / 900		68 70	20 20		BLOCK HEATER BLOCK HEATER
860 / 240		20		H. DOOR				BLOCK HEATER		-		71			900 / 900	72	20		BLOCK HEATER
	20	20	1 EF	3				BLOCK HEATER		1 2	20	73	900 / 900			74	20	1	BLOCK HEATER
		15	1 FL	JRN-1				BLOCK HEATER		-		75		900 / 900		76	20		BLOCK HEATER
50 / 1664	24	35	2 A0	CCU-1	1		1	BLOCK HEATER GASOLINE PUMP		+		77 79	1920 / 1000		900 / 1920	78 80	35 20		DIESEL PUMP
		20	1 EL	ECTRIC STRIKES				ALTERNATE - EF-2		1 2	20	81		0 / 540		82	20		ALTERNATE - RECEPTAC MAINTENANCE BAY
20 / 695	30	20	1 E>	(TERIOR POLE LIGHTS				ALTERNATE - EF-5		1 2	20	83			1196 / 720	84	20		ALTERNATE - RECEPTAC MAINTENANCE BAY
		20		CROWAVE				ALTERNATE - LIGHTING MAINTENANCE BAY		+		85	887 / 240	500 (0		86	20		ALTERNATE 01: OVERHE
80 / 360		20 20		DFFEE MAKER JS LIFT CHARGER				BLOCK HEAT RELAY PANE	L			87 89		500 / 0	0 / 0	88 90	20 20		SPARE BREAKER SPARE BREAKER
		20		JS LIFT CHARGER				SPARE BREAKER		+		91	0 / 0			92			SPACE ONLY
	40	20	1 Bl	JS LIFT CHARGER				SPARE BREAKER		1 2	20	93		0 / 0		94		1	SPACE ONLY
000 / 360		20	1 Bl	JS LIFT CHARGER				SPARE BREAKER			20 TOTA	95 I S [,]	11206 VA	8240 VA	0/0 10136 VA	96		1	SPACE ONLY
	44	20	3 EF	- 1				~~~~	AMP	SUBT		LS:	96 A	69 A	87 A				
362 / 793	48 50 52	20 20 20 20	1 RE	ECEPTACLES - LIGHT POLES ELDER OCK HEATER			LIGH MOT REC	<u>D TYPE:</u> ITING ORS	VA 887 VA 4776 VA 21960 VA 0 VA	FAC 12 11 7	5.0% 0.1% 2.8% 0.0%	1	VA AMF 1109 VA 3 5256 VA 15 5980 VA 44	SOBIOTAL A 11206 VA A 8240 VA A 10136 VA A 27580 VA 22292 VA	PHASE A B C TOTALS CONNECTE DEMAND	(1) D	<u>rcuit i</u> Provi		r <u>ES:</u> (3) #8 AWG CU. #10 AW
2899 VA 192 A PHASE A B C TALS CONNECT DEMAND CONNECT	(1) PF			<u>5:</u>) #8 AWG CU. #10 AWG CU G., 3/4	" C		L							77 A 62 A	CONNECTE DEMAND	D			





10
T1.1

ONTROL SYMBOLS		
ΓΙΟΝ	MOUN	NTING
	LOC.	HT.
DIVISION 26 TO PROVIDE 120V DINATE WORK WITH DIVISION 26. 26 TO PROVIDE 120V CONNECTION TO TH DIVISION 26.	WALL	72" TO TOP
DIVISION 26 TO PROVIDE COORDINATE WORK WITH DIVISION	DOOR	SEE
IVISION 26 TO PROVIDE PATHWAYS E WORK WITH DIVISION 08 AND	DOOK	PLANS
VISION 26 TO PROVIDE PATHWAYS TO ORK WITH DIVISION 08 AND	VARIES	VARIES
Y DIVISION 28. DIVISION 26 TO E ACCESSABLE CEILING. COORDINATE	WALL	44"
SION 28. DIVISION 26 TO PROVIDE ABLE CEILING. COORDINATE WORK	WALL	48"
ROVIDED BY DIVISION 28. DIVISION ABOVE ACCESSABLE CEILING.	HARD CEILING	N/A
ED BY DIVISION 28. COORDINATE	WALL	96", UNO
DIVISION 28. DIVISION 26 TO E ACCESSABLE CEILING. COORDINATE	WALL	80", UNO
N 28. DIVISION 26 TO PROVIDE BACK CEILING. COORDINATE WORK WITH	WALL	48"
ION 28. DIVISION 26 TO PROVIDE ABLE CEILING. COORDINATE WORK	WALL	48"
ROVIDED BY DIVISION 28. H DIVISION 26. PUSH BUTTON PROVIDED BY EMENTS WITH DIVISION 26.	VARIES	VARIES

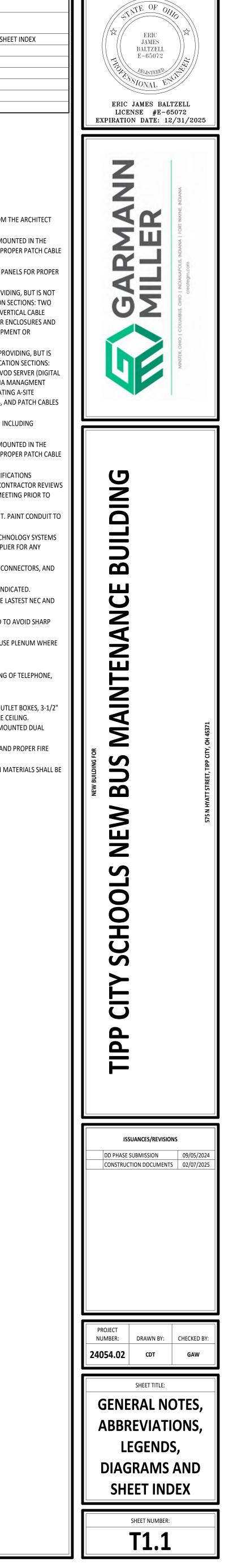
	COLOR						
PTION	CABLE	JACK					
	BLUE	BLUE					
	BLUE	BLUE					
	BLUE	BLUE					
K CABLE	GREEN	GREEN					
	ORANGE	ORANGE					
FED PAIR	ORANGE	ORANGE					
	N/A	MATCH FACEPLATE					
	N/A	MATCH FACEPLATE					
LOR CODING							

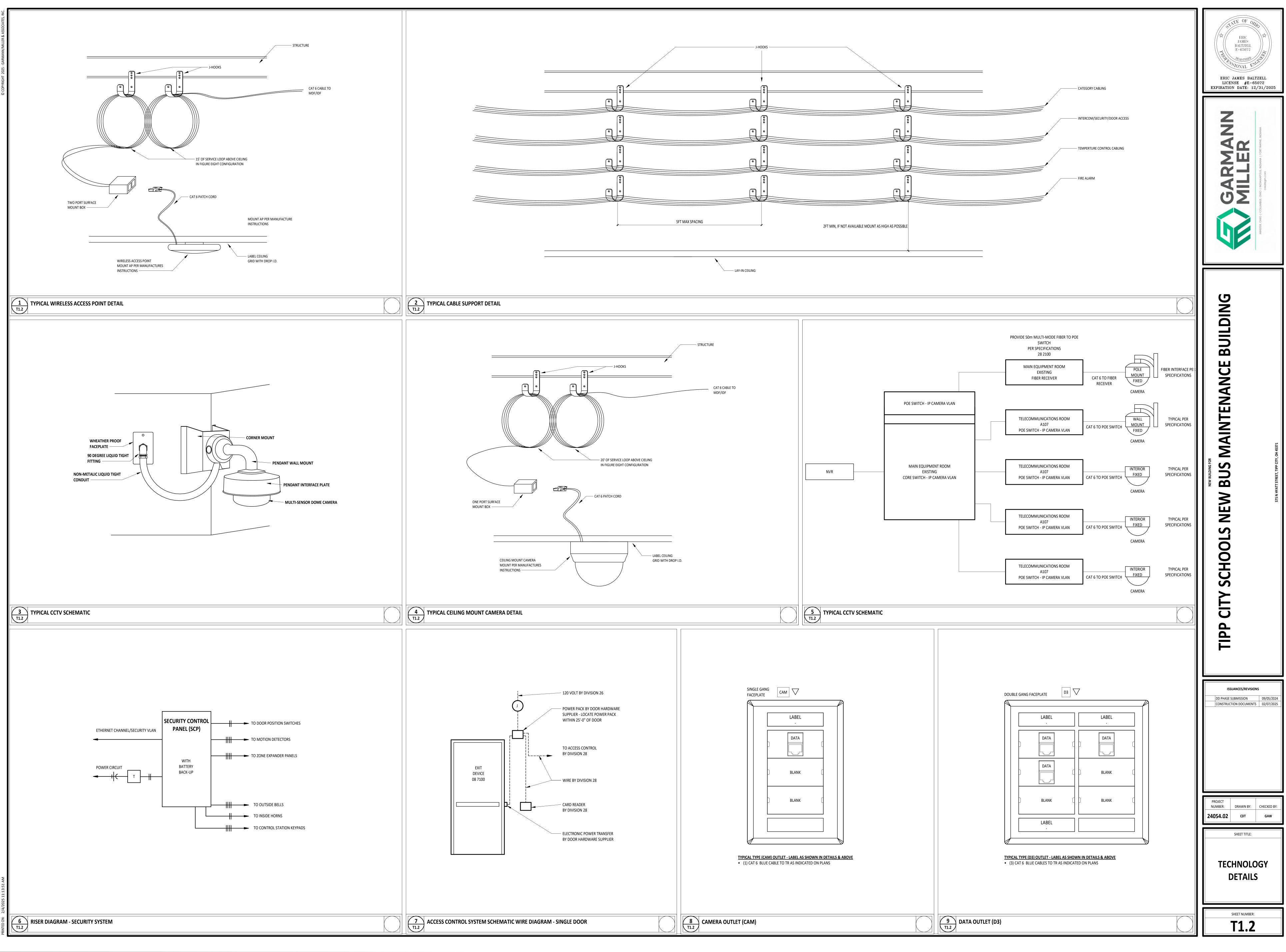
A	
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AV	AUDIO/VISUAL
С	
CAM	CAMERA
CAT	CATEGORY
CCTV	CLOSED-CIRCUIT TELEVISION
D	
D	DATA
DC	DIRECT CURRENT
DSD	DIGITAL SIGNAGE DISPLAY
E	
E	EXISTING
EC	ELECTRICAL CONTRACTOR
ER	EQUIPMENT ROOM
G	
GBE	GIGABIT ETHERNET
GPON	GIGABIT PASSIVE OPTICAL NETWORK
1	
I IFP	INTERACTIVE FLAT PANEL DISPLAY
ISG(N)	ISOLATED SYSTEMS GROUND
IWB	INTERACTIVE WHITE BOARD
L Ll	LOCAL INPUT
LVP	LARGE VENUE PROJECTOR
M MM	MULTIMODE FIBER OPTIC CABLE
0	
OLT ONT	OPTICAL LINE TERMINAL OPTICAL NETWORK TERMINAL
OREQ	OR EQUAL
OKEQ	OPTICAL SPLITTER
PA PDU	PUBLIC ADDRESS POWER DISTRIBUTION UNIT
PoE	
POL PON	PASSIVE OPTICAL LAN PASSIVE OPTICAL NETWORK
Q	EMPTY BOX WITH BLANK COVER
<u> </u>	
R RU	RACK UNITS
KU	RACK UNITS
S	
SA	SOUND AMPLIFICATION
SM	SINGLE MODE FIBER OPTIC CABLE
SP SP	STAGE PRESENTER
SR SS	SOUND REINFORCEMENT SECURITY SYSTEM
	TELECOMMUNICATIONS BONDING BACKBONE
Т	TELECOMMUNICATIONS BONDING BACKBONE
T TBB	TELECOMMUNICATIONS MAIN GROUNDING BACKBONE
T TBB TE	TELECOMMUNICATIONS MAIN GROUNDING BACKBONE TEACHERS PERSONAL COMPUTER
T TBB TE TMGB	
T TBB TE TMGB TPC	TEACHERS PERSONAL COMPUTER
T TBB TE TMGB TPC TR	TEACHERS PERSONAL COMPUTER TELECOMMUNICATIONS ROOM
T TBB TE TMGB TPC TR TYP	TEACHERS PERSONAL COMPUTER TELECOMMUNICATIONS ROOM
T TBB TE TMGB TPC TR TYP U UNO	TEACHERS PERSONAL COMPUTER TELECOMMUNICATIONS ROOM TYPICAL
T TBB TE TMGB TPC TR TYP	TEACHERS PERSONAL COMPUTER TELECOMMUNICATIONS ROOM TYPICAL
T TBB TE TMGB TPC TR TYP U UNO	TEACHERS PERSONAL COMPUTER TELECOMMUNICATIONS ROOM TYPICAL UNLESS NOTED OTHERWISE
T TBB TE TMGB TPC TR TYP U U UNO V V	TEACHERS PERSONAL COMPUTER TELECOMMUNICATIONS ROOM TYPICAL UNLESS NOTED OTHERWISE VOICE
T TBB TE TMGB TPC TR TYP U U UNO V V V V V	TEACHERS PERSONAL COMPUTER TELECOMMUNICATIONS ROOM TYPICAL UNLESS NOTED OTHERWISE VOICE VIDEO
T TBB TE TMGB TPC TR TYP U UNO UNO V V V V V V V V V D	TEACHERS PERSONAL COMPUTER TELECOMMUNICATIONS ROOM TYPICAL UNLESS NOTED OTHERWISE VOICE VIDEO VIDEO ON DEMAND
T TBB TE TMGB TPC TR TYP U UNO V V V V V V V V V V V V V V V V D VOD V OIP	TEACHERS PERSONAL COMPUTER TELECOMMUNICATIONS ROOM TYPICAL UNLESS NOTED OTHERWISE VOICE VIDEO VIDEO ON DEMAND VOICE OVER INTERNET PROTOCOL
T TBB TE TMGB TPC TR TYP U UNO V V V V V V V V V V V V V V V V V V V	TEACHERS PERSONAL COMPUTER TELECOMMUNICATIONS ROOM TYPICAL UNLESS NOTED OTHERWISE VOICE VIDEO VIDEO ON DEMAND VOICE OVER INTERNET PROTOCOL
T TBB TE TMGB TPC TR TYP U U UNO V V V V V V V V V V V V V V V V V V V	TEACHERS PERSONAL COMPUTER TELECOMMUNICATIONS ROOM TYPICAL UNLESS NOTED OTHERWISE VOICE VIDEO VIDEO ON DEMAND VOICE OVER INTERNET PROTOCOL VIDEO PROJECTOR WIRELESS ACCESS POINT WIREGUARD; SIZED SPECIFICALLY FOR DEVICE IT IS
T TBB TE TMGB TPC TR TYP U UNO V V V V V V V V V V V V V V V V V V V	TEACHERS PERSONAL COMPUTER TELECOMMUNICATIONS ROOM TYPICAL UNLESS NOTED OTHERWISE VOICE VIDEO VIDEO ON DEMAND VOICE OVER INTERNET PROTOCOL VIDEO PROJECTOR WIRELESS ACCESS POINT WIREGUARD; SIZED SPECIFICALLY FOR DEVICE IT IS SERVING
T TBB TE TMGB TPC TR TYP U U UNO V V V V V V V V V V V V V V V V V V V	TEACHERS PERSONAL COMPUTER TELECOMMUNICATIONS ROOM TYPICAL UNLESS NOTED OTHERWISE VOICE VIDEO VIDEO ON DEMAND VOICE OVER INTERNET PROTOCOL VIDEO PROJECTOR WIRELESS ACCESS POINT WIREGUARD; SIZED SPECIFICALLY FOR DEVICE IT IS

	TECHNOLOGY SHEET INDEX
SHEET NUMBER	SHEET NAME
T1.1	GENERAL NOTES, ABBREVIATIONS, LEGENDS, DIAGRAMS AND SI
T1.2	TECHNOLOGY DETAILS
T1.3	TECHNOLOGY DETAILS
T2.1	TECHNOLOGY SITE PLAN
T3.1	ENLARGED TECHNOLOGY ROOMS
TC1.1	TECHNOLOGY CABLING PLANS
TE1.1	TECHNOLOGY EQUIPMENT PLANS

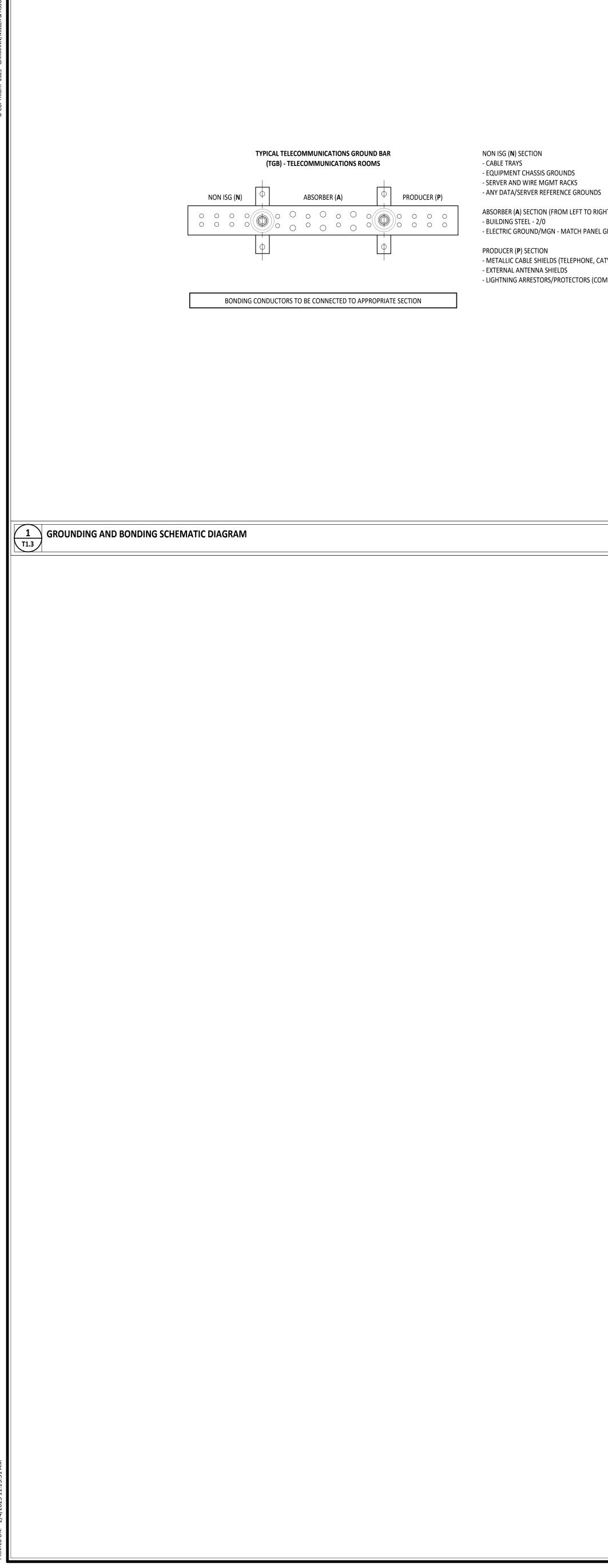
TECHNOLOGY CABLING/EQUIPMENT GENERAL NOTES

- A RACK LAYOUTS SHALL NOT BE CHANGED WITHOUT APPROVAL FROM THE ARCHITECT AND THE CONSTRUCTION MANAGER.
- B ALL EQUIPMENT, OWNER OR CONTRACTOR PROVIDED, SHALL BE MOUNTED IN THE RACKS WITH THE PROPER MOUNTING HARDWARE AND WITH THE PROPER PATCH CABLE LENGTH AND COLOR.
- C ALL EMPTY OR UNUSED RACK SPACE MUST BE FILLED WITH BLANK PANELS FOR PROPER HOT/COLD ISLE VENTILATION.
- D TECHNOLOGY CABLING CONTRACTORS ARE RESPONSIBLE FOR PROVIDING, BUT IS NOT LIMITED TO, THE FOLLOWING FOR THEIR RESPECTIVE SPECIFICATION SECTIONS: TWO POST RACKS, FOUR POST RACKS, WALL/FLOOR MOUNT CABINETS, VERTICAL CABLE MANAGERS, HORIZONTAL CABLE MANAGERS, PATCH PANELS, FIBER ENCLOSURES AND COUPLER PANELS, BLANK PANELS, SHELVES FOR ANY OWNER EQUIPMENT OR EQUIPMENT NOT RACK MOUNTABLE, AND PAGING SYSTEM.
- TECHNOLOGY EQUIPMENT CONTRACTORS ARE RESPONSIBLE FOR PROVIDING, BUT IS NOT LIMITED TO, THE FOLLOWING FOR THEIR RESPECTIVE SPECIFICATION SECTIONS: NETWORK SWITCHES, CORE SWITCHES, FILE SERVER, NTP SERVER, VOD SERVER (DIGITAL MEDIA MANAGEMENT SYSTEM), ENCODER CHASSIS (DIGITAL MEDIA MANAGMENT SYSTEM), IP KVM, IP TELEPHONE GATEWAY, UPS UNITS, COORDINATING A-SITE EQUIPMENT INSTALLATION AND OR PROGRAMING, PATCH CABLES, AND PATCH CABLES FOR OWNER EQUIPMENT.
- REFER TO SPECIFICATIONS FOR DETAILS AND MORE INFORMATION INCLUDING MISC.MATERIALS REQUIRED TO BE PROVIDED.
- G ALL EQUIPMENT, OWNER OR CONTRACTOR PROVIDED, SHALL BE MOUNTED IN THE RACKS WITH THE PROPER MOUNTING HARDWARE AND WITH THE PROPER PATCH CABLE LENGTH AND COLOR.
- TECHNOLOGY DRAWINGS COVER ALL OF DIVISION 27 AND 28 SPECIFICATIONS н EXCLUDING FIRE ALARM. IT IS HIGHLY RECOMMENDED THAT THE CONTRACTOR REVIEWS DIVISION 27 AND 28 SPECIFICATIONS AND ATTENDS THE PRE BID MEETING PRIOR TO SUBMITTING BIDS ..
- I ALL CABLING IN EXPOSED AREAS MUST BE ENCLOSED IN A CONDUIT. PAINT CONDUIT TO MATCH SURROUNDING AREA.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TECHNOLOGY SYSTEMS ROUGH-IN REQUIREMENTS, COORDINATE WITH THE SYSTEMS SUPPLIER FOR ANY VENDOR SPECIFIC REQUIREMENTS.
- K CONTRACTORS SHALL PROVIDE APPROPRIATE FACEPLATES, JACKS, CONNECTORS, AND CABLING FOR EACH TECHNOLOGY ROUGH-IN INDICATED.
- L CONTRACTORS SHALL PROVIDE ALL TERMINATIONS FOR CABLING INDICATED. M CONTRACTORS SHALL LABEL ALL CABLING AS REQUIRED BY PER THE LASTEST NEC AND
- ANSI/TIA/EIA-606 STANDARDS. N CABLE TIES ARE FOR OUTDOOR USE ONLY AND SHALL BE TRIMMED TO AVOID SHARP EDGES WITH FLUSH CUTTERS.
- O PROVIDE BLACK NON-PRINTED VELCRO STRAPS FOR INDOOR USE. USE PLENUM WHERE REQUIRED.
- P PROVIDE COVER PLATES ON ALL EMPTY TECHNOLOGY ROUGH-INS. Q CONTRACTORS SHALL COORDINATE INSTALLATION AND GROUNDING OF TELEPHONE, CATV, AND ITC DEMARCS/SERVICE ENTRANCES.
- R EACH WAP LOCATION REQUIRES TWO (2) SHIELDED CAT 6 CABLES. S TYPICAL TECHNOLOGY ROUGH-INS, IN NEW WALLS, ARE 2-GANG OUTLET BOXES, 3-1/2" DEEP WITH A MIN OF 1-1/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING. TECHNOLOGY ROUGH-INS ON EXISTING WALLS WILL BE SURFACE MOUNTED DUAL CHANNEL RACEWAY.
- ANY PENETRATION THROUGH FIRE WALLS MUST USE 2" CONDUIT AND PROPER FIRE STOPPING PER THE LASTEST CODES AND STANDARDS. U CEILING SPACE IS USED AS A PLENUM, ALL CABLE AND INSULATION MATERIALS SHALL BE
- PLENUM RATED.

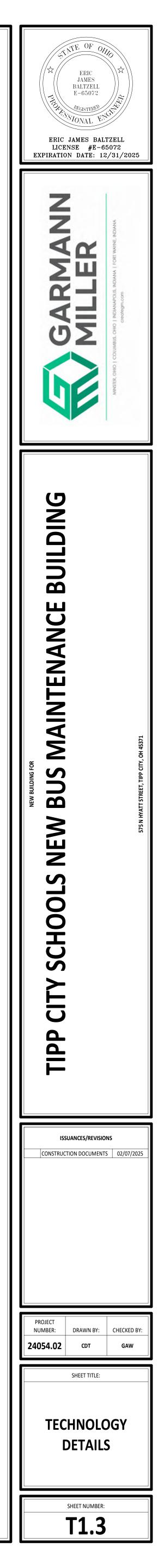


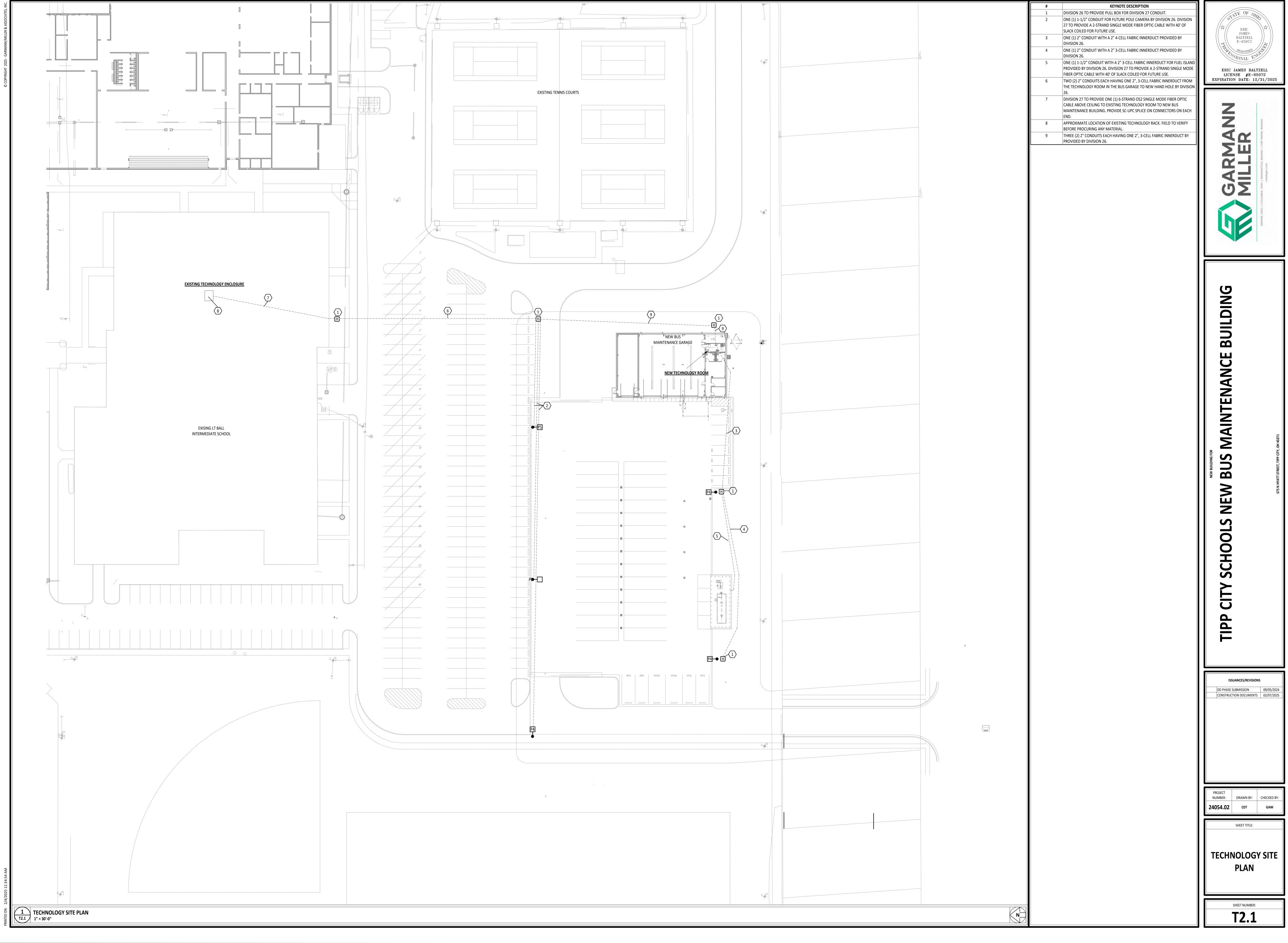


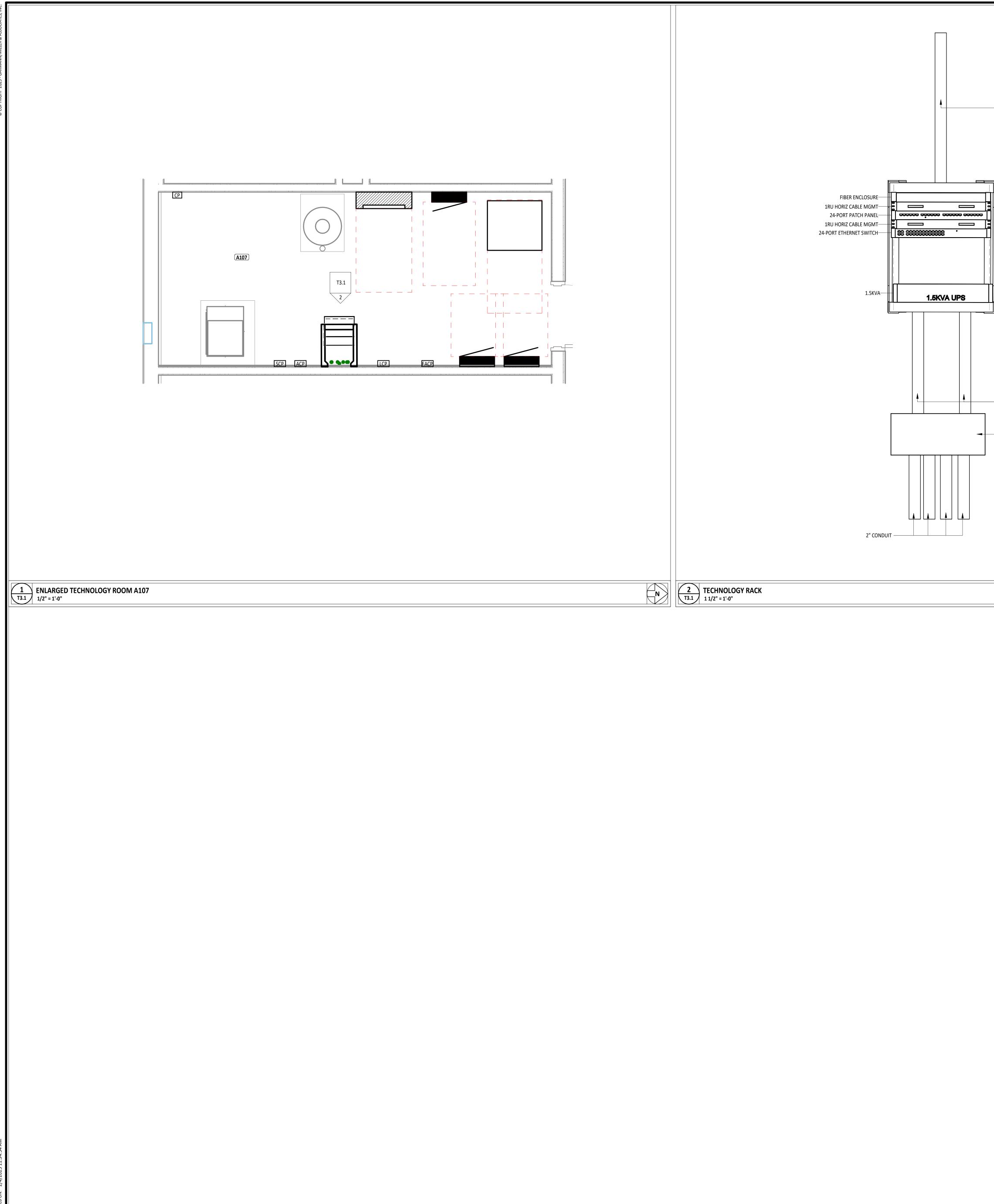




	_
SHT)	
GROUND - 6AWG MINIMUM - PANEL XXXX, ROOM A107	
ATV, ETC.)	
MMUNICATIONS, ALL TYPES)	
	$\langle \rangle$





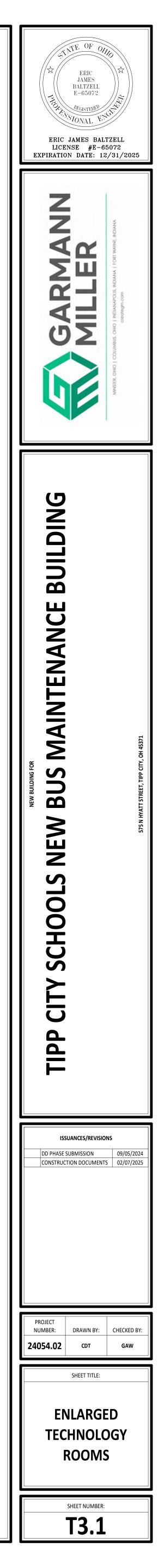


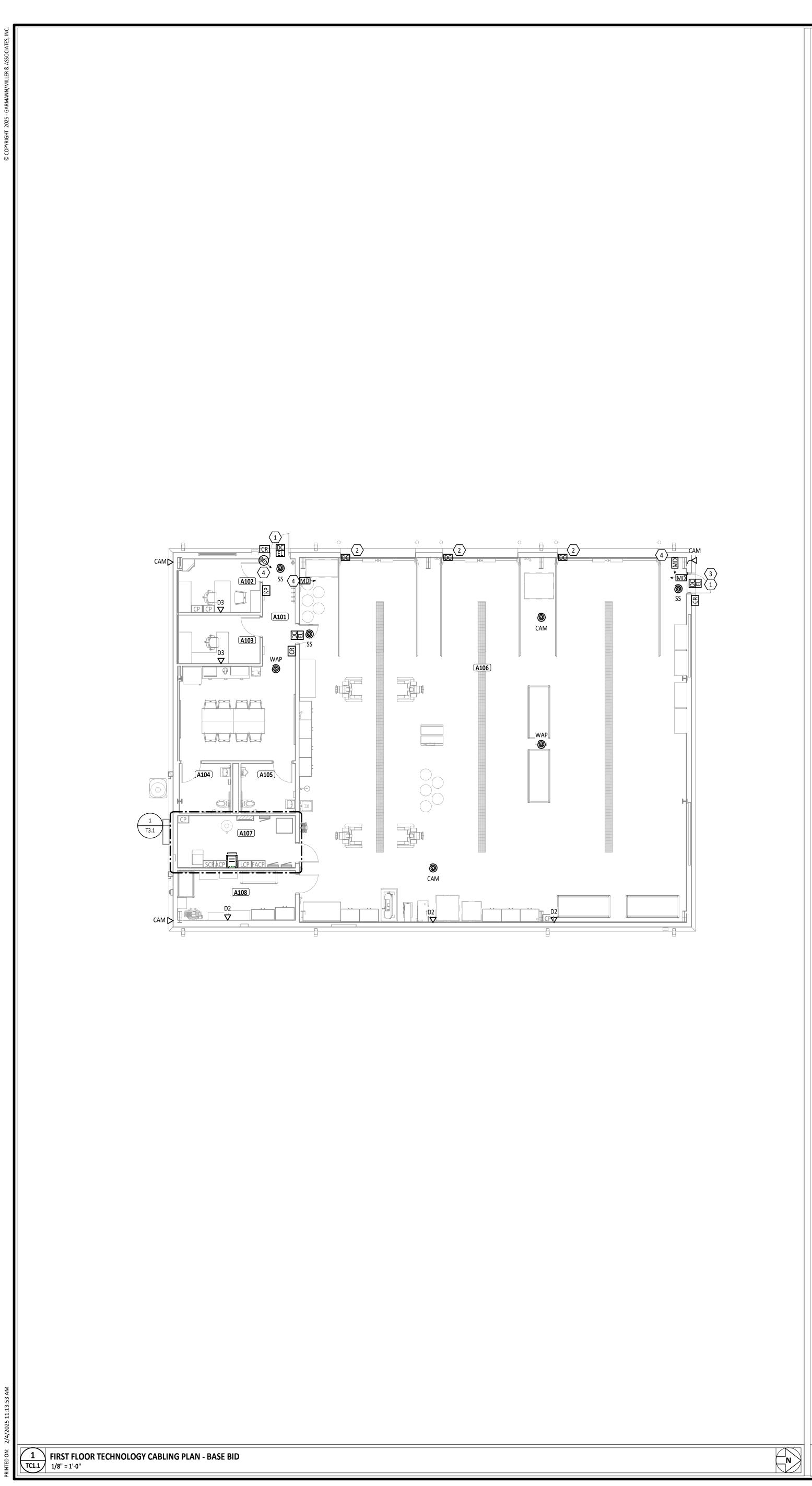
------- 2-1/2" CONDUIT

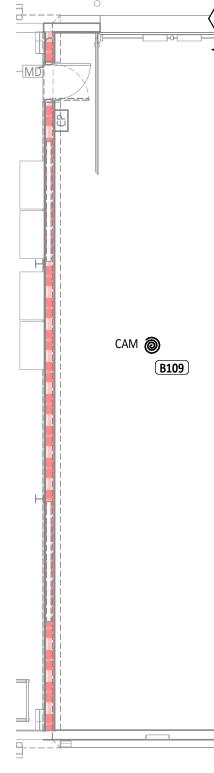
ACCESS CONTROL PANEL

SECURITY CONTROL PANEL

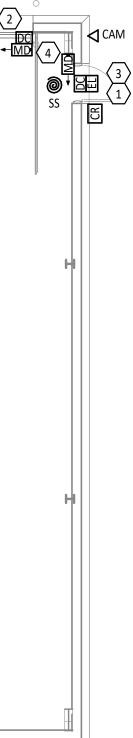
— 2-1/2" CONDUIT

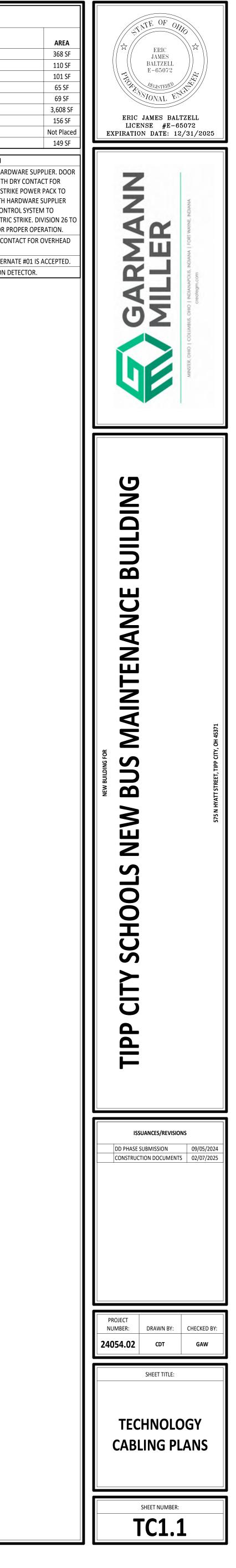


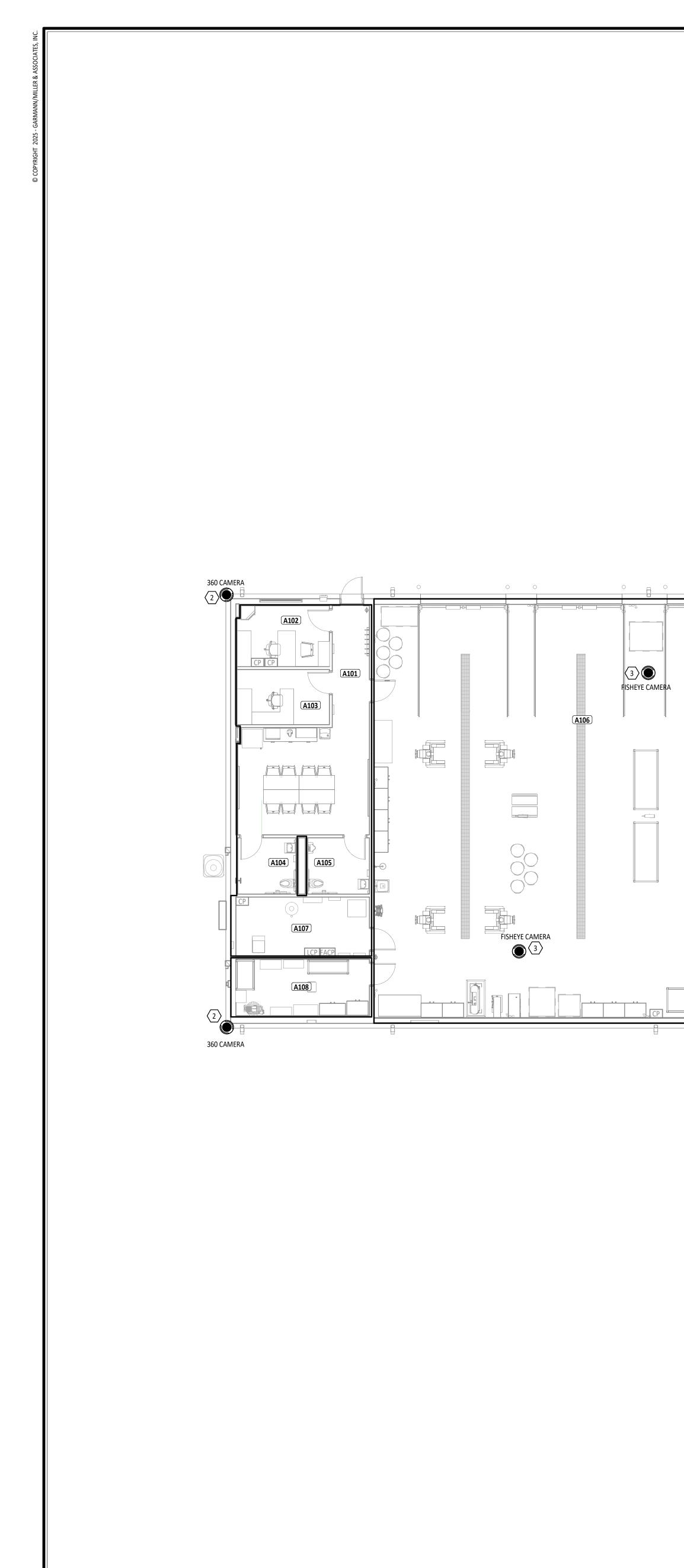




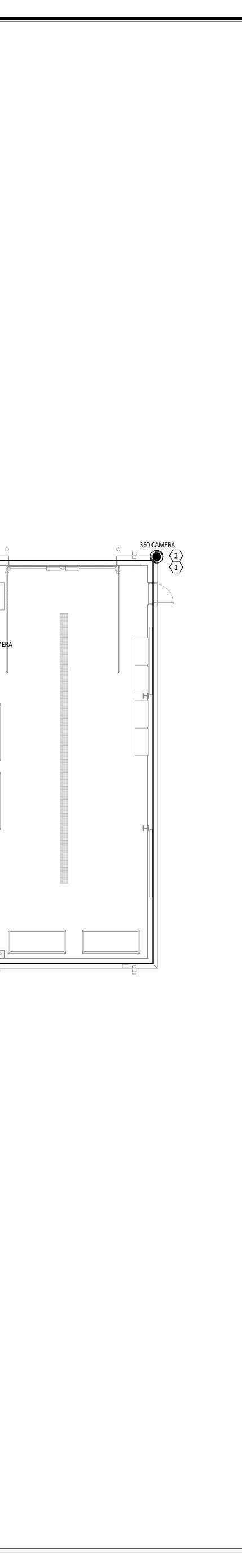
FIRST FLOOR PLAN ROOM INDEX - UNIT A					
ROOM NUMBER		ROOM NAME			
A101	WOR	KROOM			
A102	OFFIC	CE			
A103	OFFIC	CE			
A104	UNIS	EX RESTROOM			
A105	UNIS	EX RESTROOM			
A106	MAIN	ITENANCE BAY			
A107	MECH	H/ELECTRICAL/AIR COMPRESSOR			
A107 WOR		KROOM			
A108	STOR	AGE			
#		KEYNOTE DESCRIPTION			
1		DOOR PROVIDED WITH ELECTRIC STRIKE BY DOOR HAR HARDWARE SUPPLIER TO PROVIDE POWER PACK WITH			
		ELECTRIC STRIKE. PROVIDE WIRING FROM ELECTRIC STR			
		ACCESS CONTROL SYSTEM. COORDINATE WORK WITH H			
		PRIOR TO ROUGH-IN. CONNECT DOOR TO ACCESS CON PROVIDE INDIVIDUAL TIMED CONTROL OF THE ELECTRI			
		PROVIDE INDIVIDUAL TIMED CONTROL OF THE ELECTRI PROVIDE ALL PATHWAYS AND POWER REQUIRED FOR F			
2		PROVIDE AN INTRUSION DETECTION SYSTEM DOOR CO DOOR.			
3		INSTALL DOOR SECURITY ON EXTERIOR DOOR IF ALTERI			
4		PROVIDE AN INTRUSION DETECTION SYSTEM MOTION I			





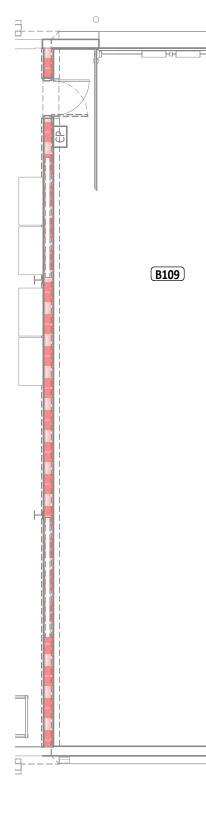


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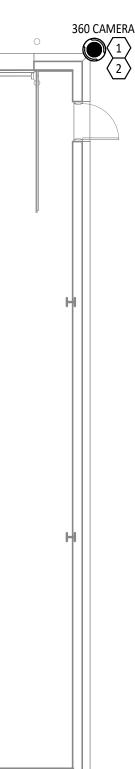


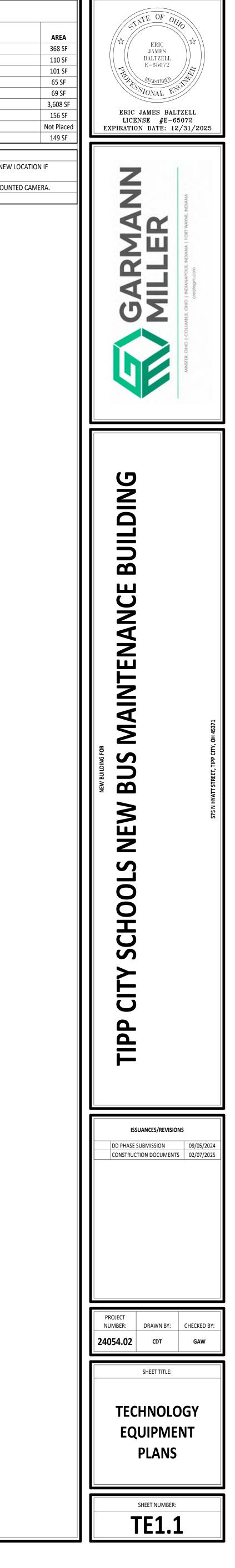
 N
 2
 FIRST FLOOR TECHNOLOGY EQUIPMENT PLAN - ALTERNATE #1

 TE1.1
 1/8" = 1'-0"

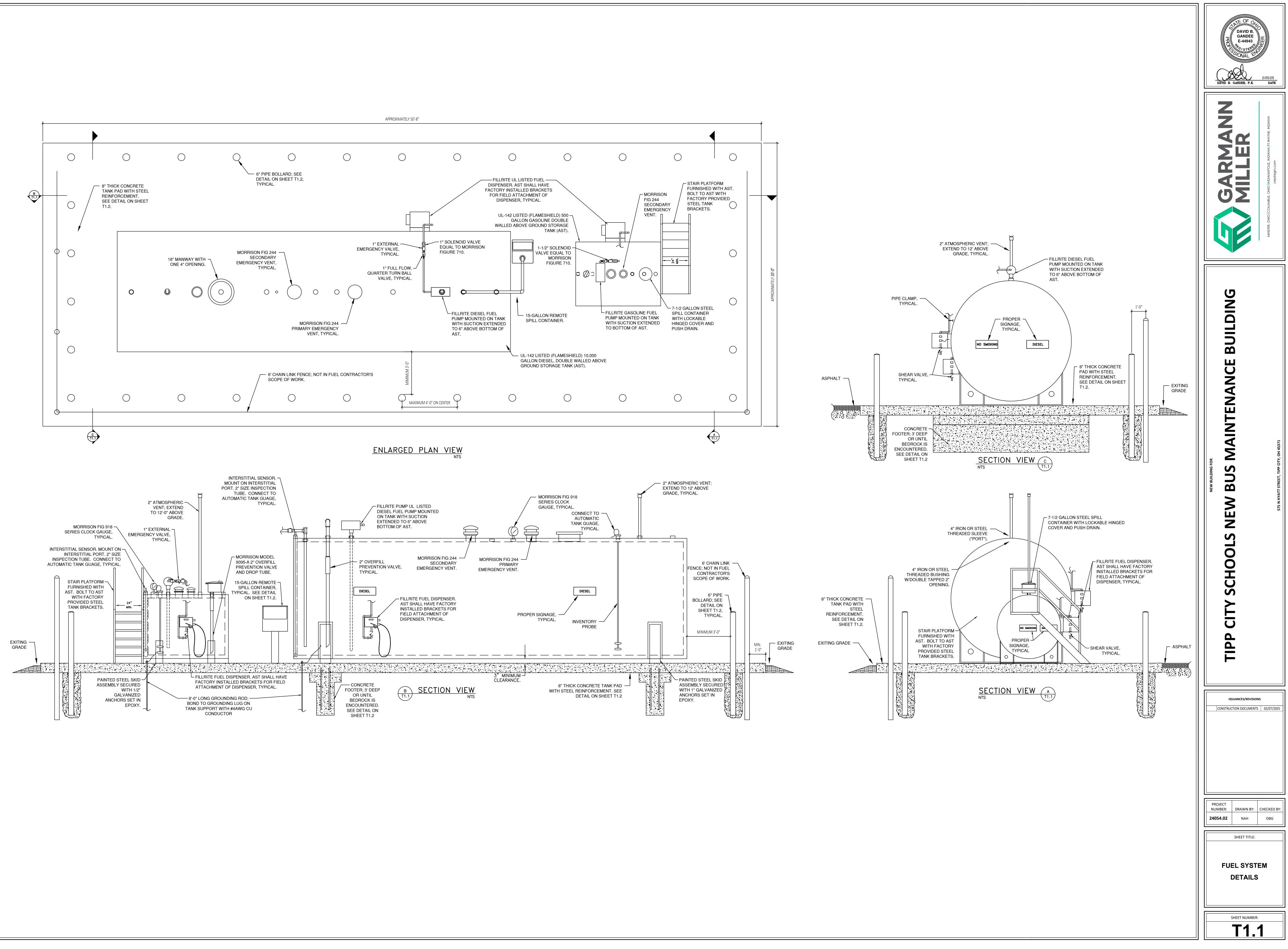


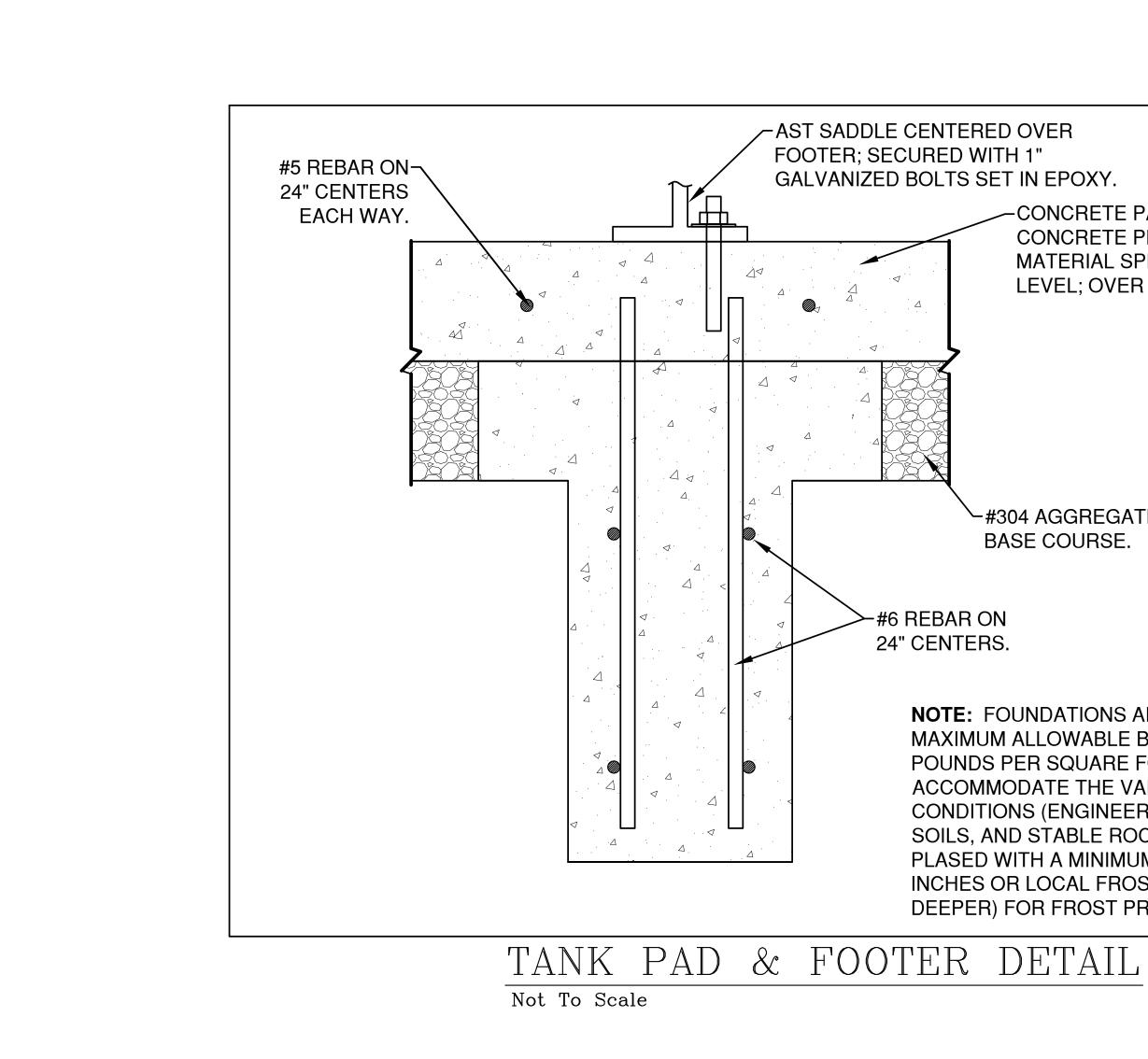
FIRST FLOOR PLAN ROOM INDEX - UNIT A					
ROOM NUMBER	ROOM NAME				
A101	WORKROOM				
A102	OFFICE				
A103	OFFICE				
A104	UNISEX RESTROOM				
A105	UNISEX RESTROOM				
A106	MAINTENANCE BAY				
A107	MECH/ELECTRICAL/AIR COMPRESSOR				
A107	WORKROOM				
A108	STORAGE				
#	KEYNOTE DESCRIPTION				
1	MOVE 360 DEGREE CORNER MOUNTED CAMERA TO NEV				
	ALTERNATE #1 IS ACCEPTED.				
2	INSTALL OWNER FURNISHED 360 DEGREE CORNER MOU				
3	INSTALL OWNER FURNISHED FISHEYE CAMERA.				

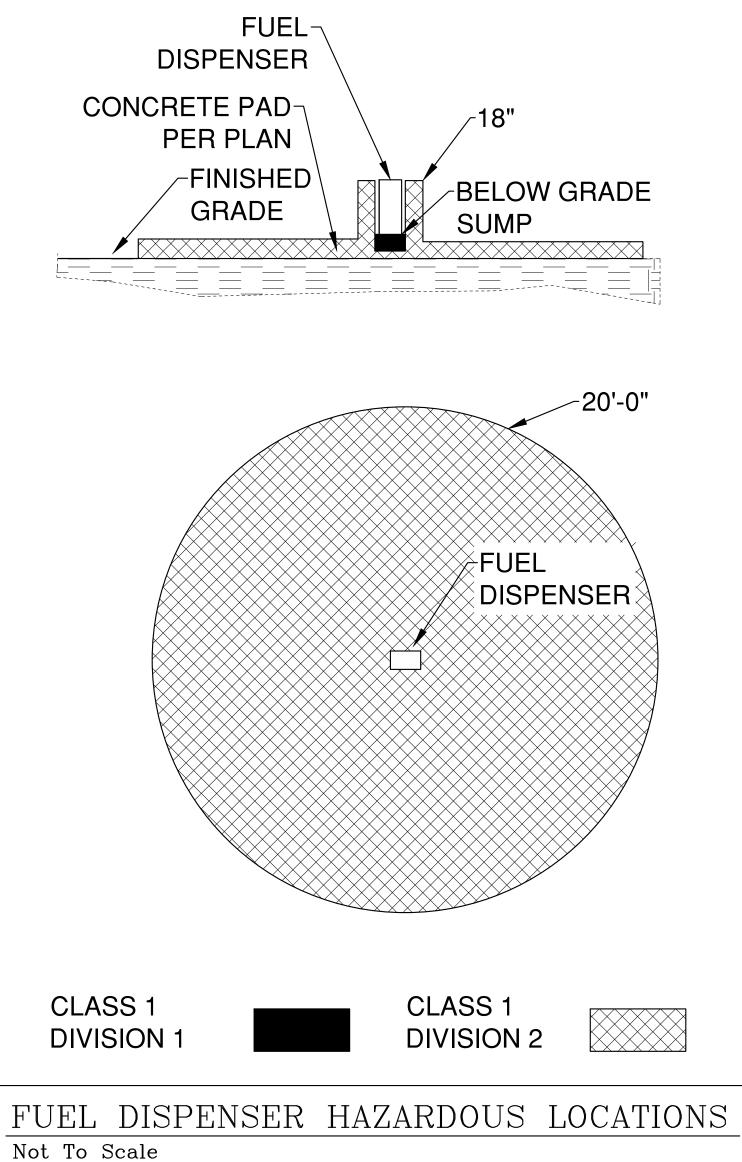










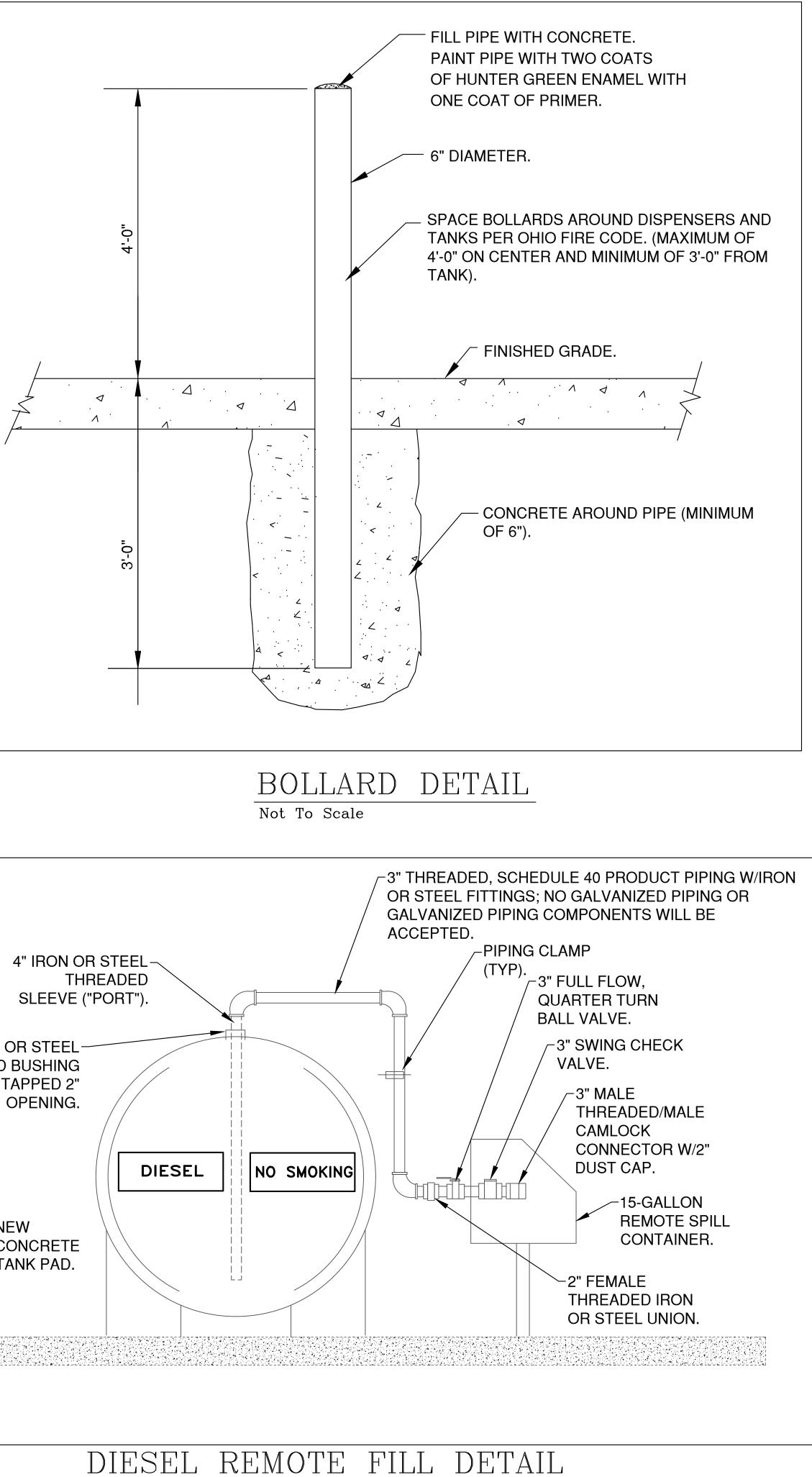


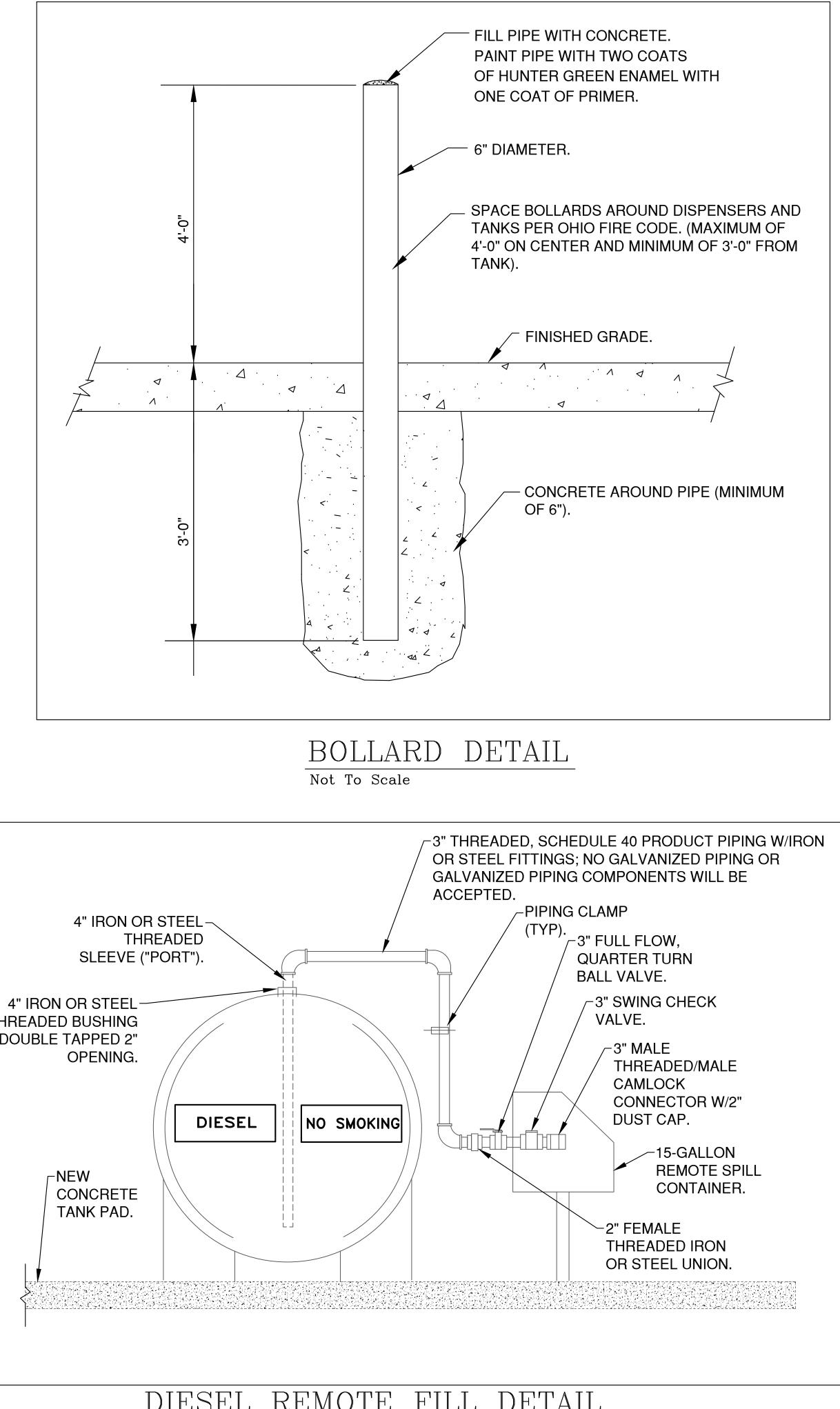
-20'-0"

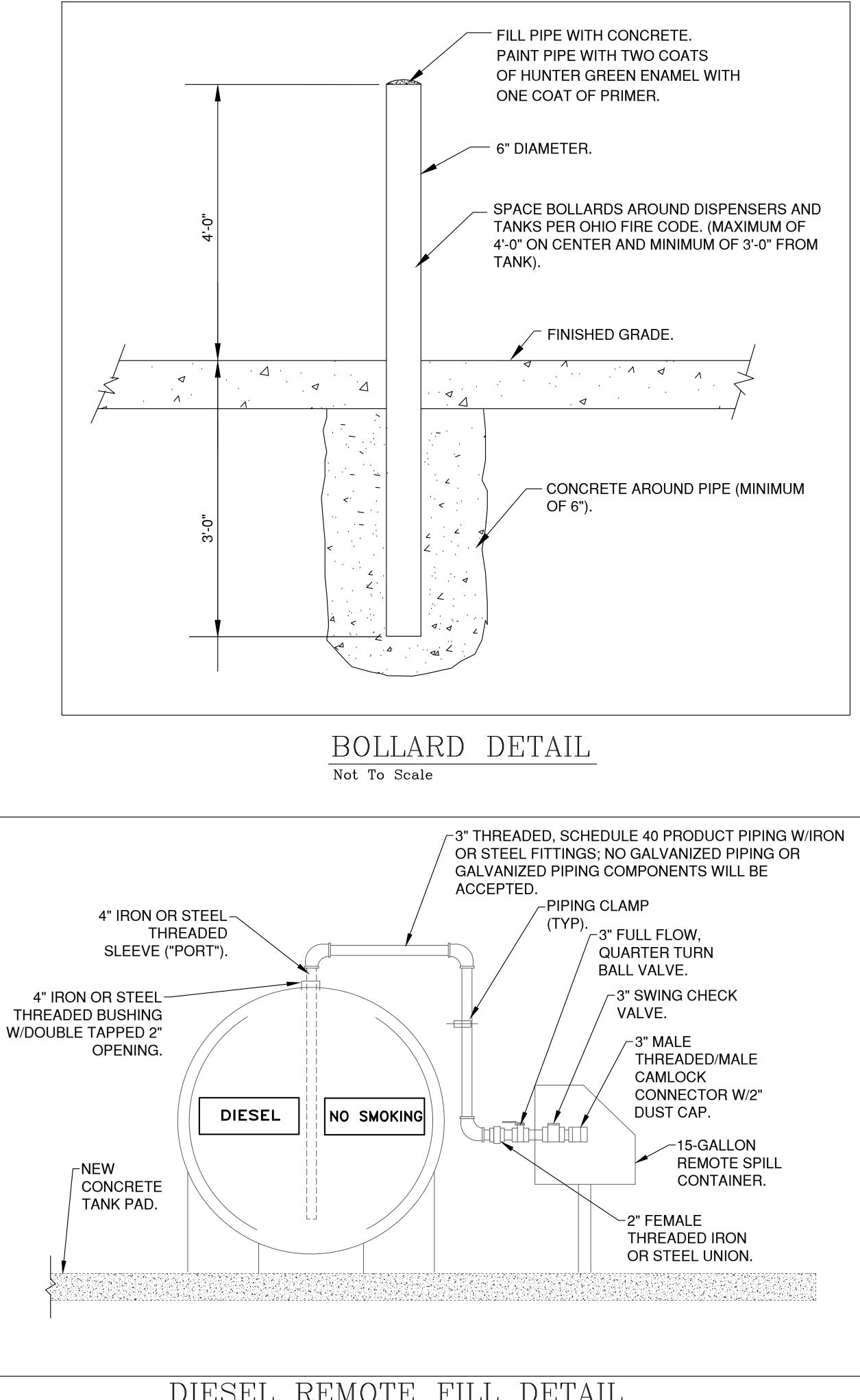
NOTE: FOUNDATIONS ARE DESIGNED FOR A MAXIMUM ALLOWABLE BEARING CAPACITY OF 3,000 POUNDS PER SQUARE FOOT, AS THIS WILL ACCOMMODATE THE VARIOUS BEARING CONDITIONS (ENGINEERED FILL, STABLE NATURAL SOILS, AND STABLE ROCK). FOOTINGS SHALL BE PLASED WITH A MINIMUM ECTERIOR COVER OF 36 INCHES OR LOCAL FROST CODE (WHICHEVER IS DEEPER) FOR FROST PROTECTION.

∽#304 AGGREGATE BASE COURSE.

-CONCRETE PAD: CLASS QC1 (4,000 PSI) CONCRETE PER ODOT 2013 CONSTRUCTION MATERIAL SPECIFICATIONS; FLAT AND LEVEL; OVER COMPACTED BASE COURSE.

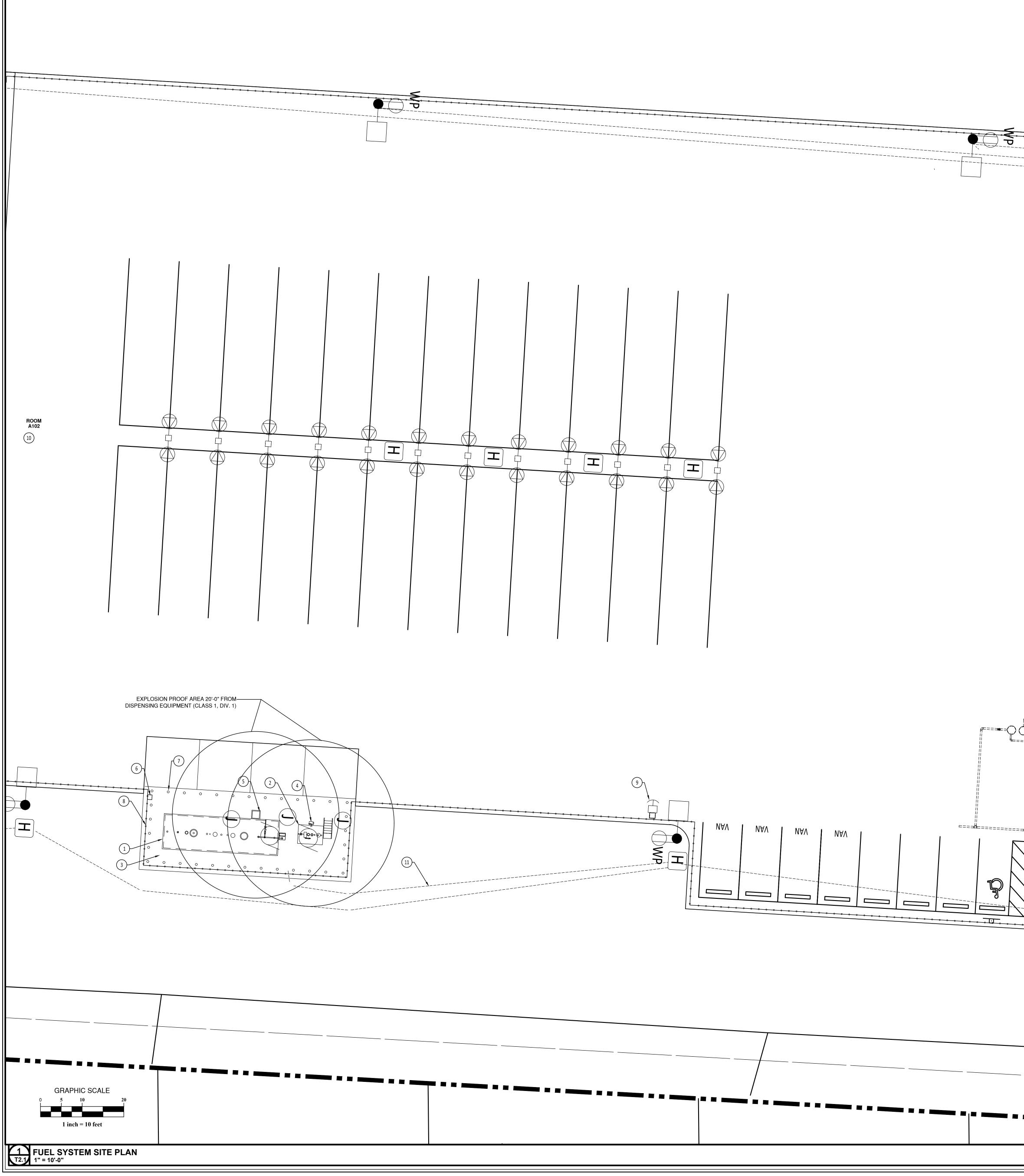






Not To Scale





FUEL SYSTEM GENERAL NOTE 1. ALL PRODUCTS SHALL BE MANUFACTURED FOR USE WITH G	S
ASOLINE APPLICATIONS AND DIESEL ON DIESEL APPLICATI ROTTE COMMUNCATION UNDER IN CONDUCT LA COMMING: MUTHIN THE SME CONDUCT AT 128 WIRING, SUSTING UNDERAGONUND PRODUCT PHYS, ELECTRICAL COMMING: MUTHIN THE SME CONDUCT AS SYSTEMS ON THIS STILLO PRIOT TO WORK, AND DEMTRY PERSITE STORE TO SUSTING UNDER SYSTEMS SMULTURE SUSTEMATION. REPARA DOM/NY. EXISTING UNDER SYSTEMS SMULTURES IN RELO PRIOT TO WORK AND DEMTRY PERSITENTS SMULTURES IN RELO PRIOT TO UNDER AND DOM/NY. EXISTING UNDER SYSTEMS SMULTURE ON PRIASE DOM/NY. HAND DIGSING MAY BE RECURRED UNDER NYPASO, NYPASO, O'STATE PRIE MANARAL MUDER OROLD SYSTEMS SMULTURE DATA AND A DOM/NY. HAND DIGSING MAY BE RECURRED MORE AND AND A DOM/NYPASO, NYPASO, O'STATE PRIE MANARAL MARAYAL DE NATIONAL DE NATIO	ONS. ATION WIRI NSTALLED DNDUIT, ANI TE PLAN. O START OF PS) PRIOR T NY LINES O UTILITY A MINIMUM A, AND DIVI O, PAINTED N; THREADE LL BE EL-ASTM A5: TES IESEL ALL TAILS. TI.2 FOR 20'-0" X 50'-8 ED TO FACTOR TO FACTOR 2. DPE OF WOF JIT, AND IC TO ALL DITIONAL DN SYSTEM DE CONDUIT SENSORS, D SHEET E2. E VOLTAGE
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	BALL DE SHELEED. OW VOLTARE WINNESS SHALL NOT ELI WITHIN THE MERICA CONTURE AND WINNESS. CLOSEN AND DE ECOSATO MANY SHALL NOT ELI DE COSTINUE CONTENTS OF THE SANGHOUT ON THE AND DE COSTINUE THE VIEN OF THE AND SHALL DE AND THE AND DE COSTINUE THE VIEN OF THE AND SHALL DE AND THE AND DE COSTINUE THE SANGHOUT ON ATTRACTION OF CONTER AND DE COSTINUE THE SANGHOUT ON ATTRACTION OF CONTER DE COSTINUE THE SANGHOUT ON ATTRACTION OF CONTER DE COSTINUE THE SANGHOUT ON ATTRACTION OF CONTER AND DE COSTINUE THE SANGHOUT ON ATTRACTION OF CONTER AND DE COSTINUE THE SANGHOUT ON ATTRACTION OF CONTER AND DE COSTINUE THE SANGHOUT ON ATTRACTION OF CONTER DE COSTINUE THE SANGHOUT ON THE COSTINUE THE SANGHOUT ON ATTRACTION DE COSTINUE THE SANGHOUT ON THE COSTINUE THE SANGHOUT ON ATTRACTION DE COSTINUE THE SANGHOUT ON THE COSTINUE THE SANGHOUT ON ATTRACTION DE COSTINUE THE SANGHOUT ON THE COSTINUE THE SANGHOUT ON ATTRACTION DE COSTINUE THE SANGHOUT ON THE COSTINUE THE SANGHOUT ON ATTRACTION DE COSTINUE THE SANGHOUT ON THE COSTINUE THE SANGHOUT ON

