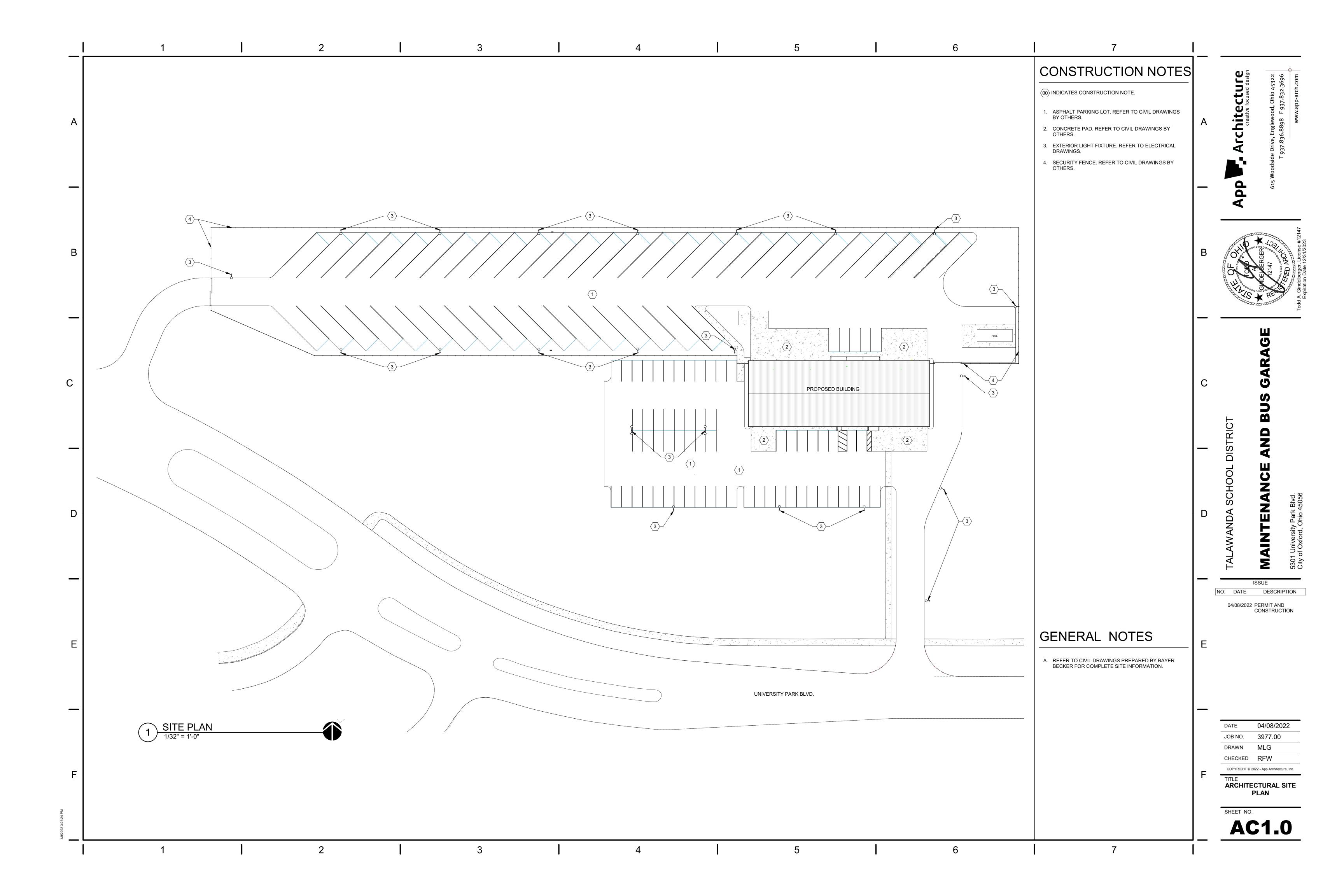
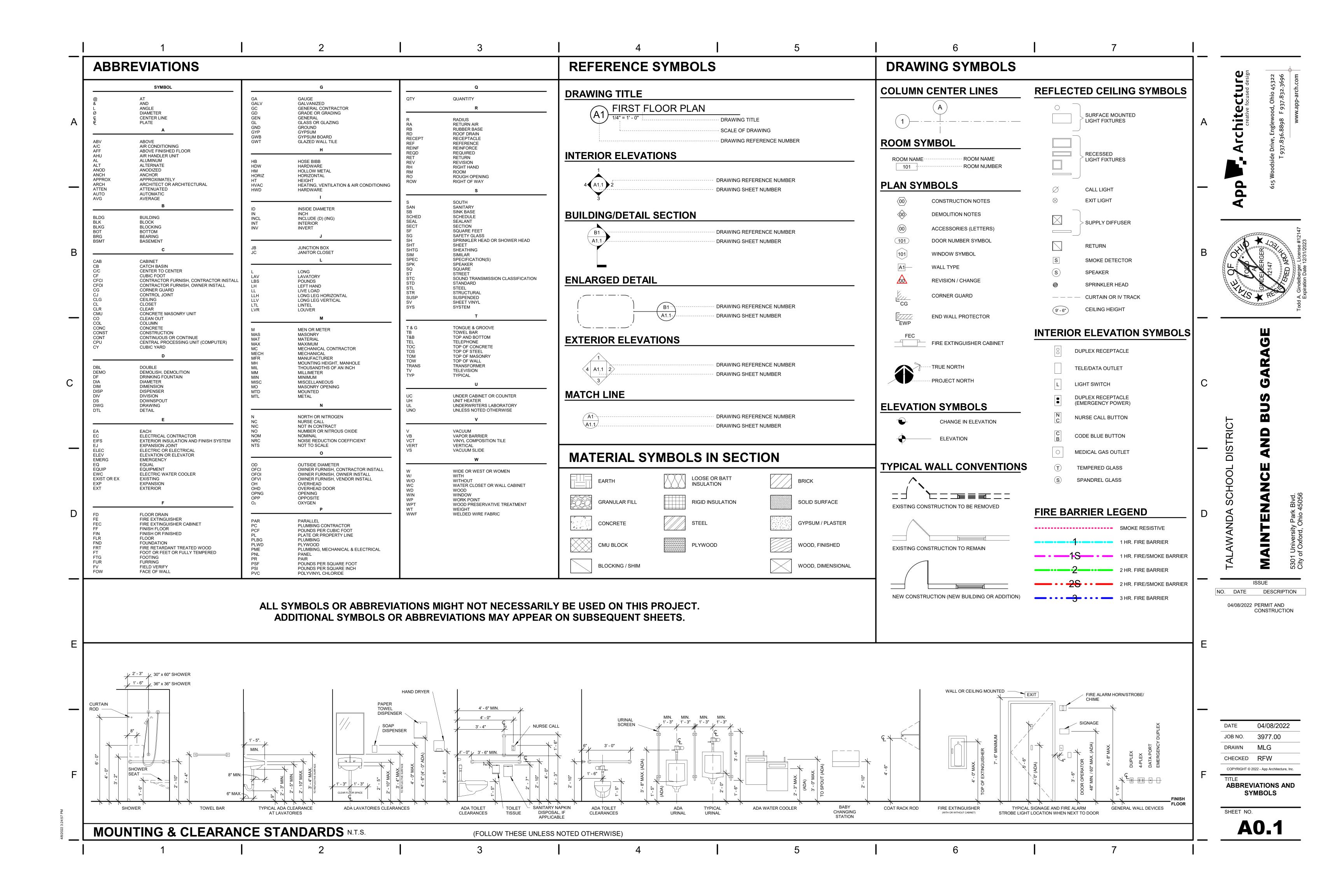
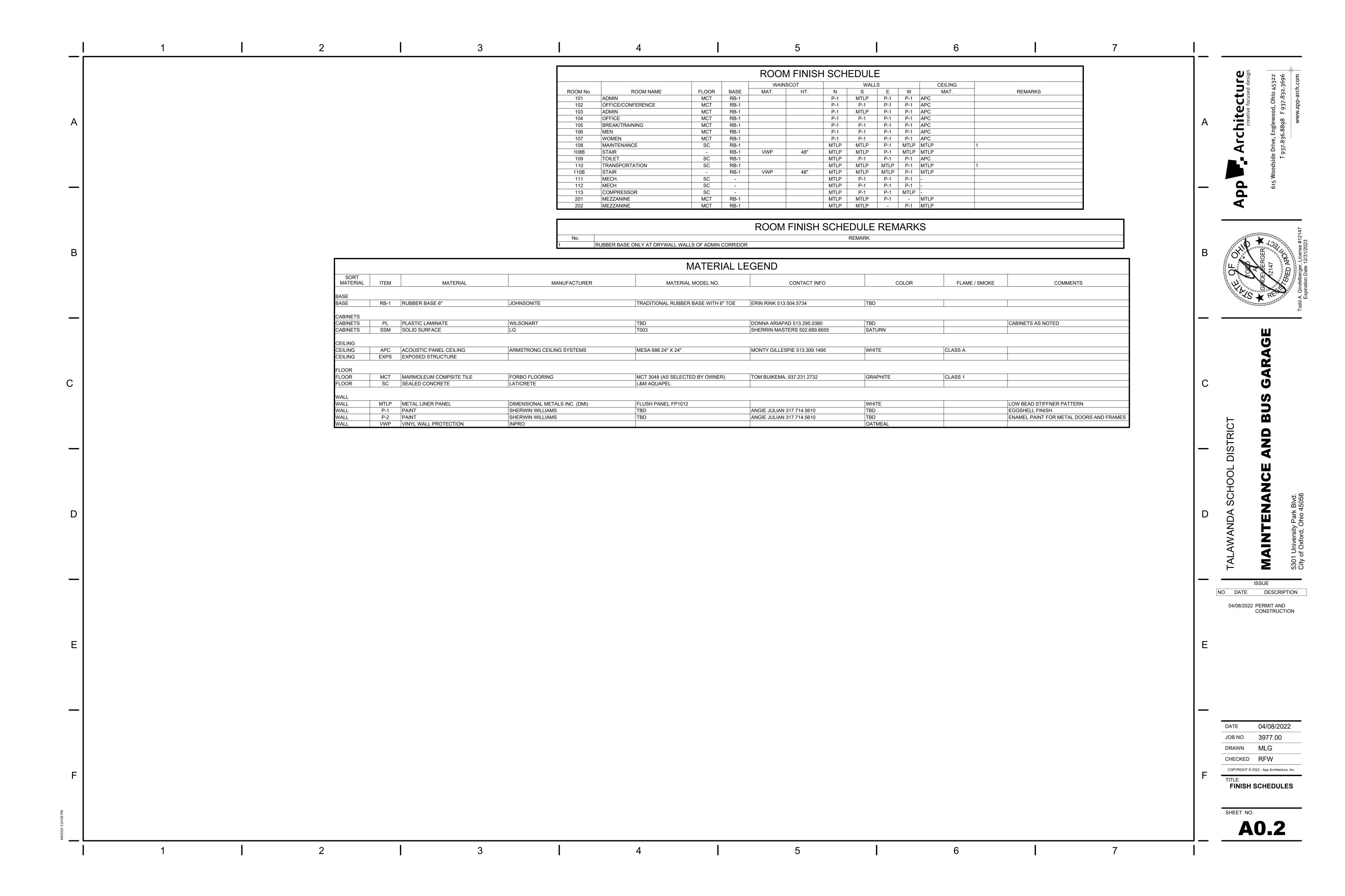
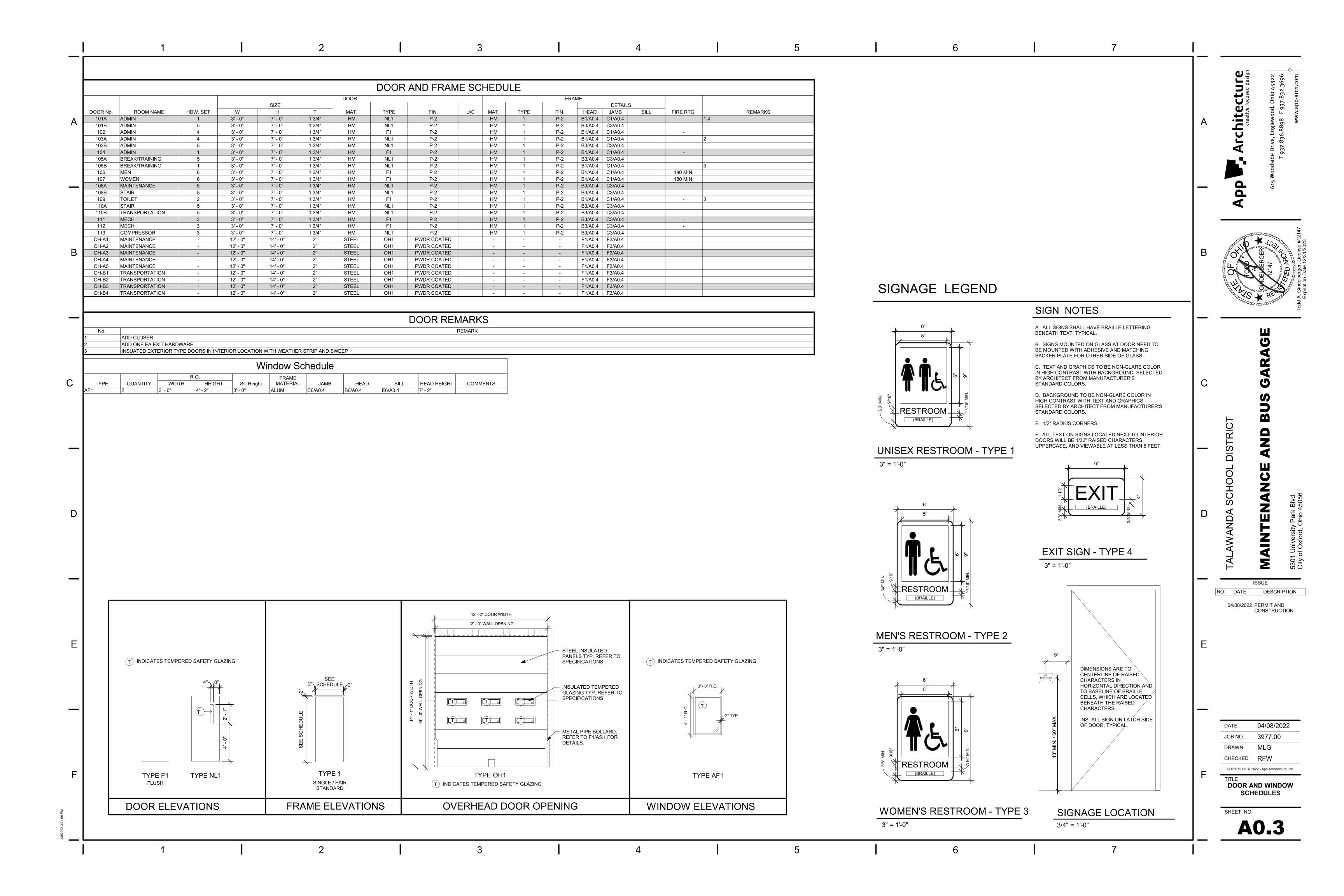
1 RCHITECTURAL SPEC	I 2 IFICATIONS	<u> </u>	4	5	6	/	<b>—</b> —
ION 08 - OPENINGS	SECTION 085113 - ALUMINUM WINDOWS	SECTION 088000 - GLAZING	SECTION 095113 - ACOUSTICAL PANEL CEILINGS	DIVISION 10 - SPECIALTIES	SECTION 104400 - FIRE PROTECTION SPECIALTIES		<b>UFC</b> ed design
DOORS STANDARD: FABRICATE WITH SMOOTH SURFACES, WITHOUT VISIBLE JOINTS OR SEAMS ON EXPOSED FACES. COMPLY WITH ANSI A250.8 AND SDI 108 RECOMMENDATIONS WITH FLUSH PANEL DESIGN, AND MANUFACTURER'S STANDARD CORE INSULATION FOR THERMAL-RATED DOORS. FACTORY PRIME, ANSI A250.10 FOR FIELD PAINTING.	<ol> <li>WINDOW MATERIALS:         <ul> <li>A. PERFORMANCE: AAMA/WDMA 101/1.5.2/NAFS.</li> <li>B. TYPE: (FIXED).</li> <li>C. MANUFACTURER: KAWNEER SEALAIR                 ARCHITECTURAL WINDOWS OR EQUAL.</li> <li>D. GLAZING: BEAD AND WEDGE.                  INSULATING GLASS: LOW-E INSULATING , ASTM E                  774 FOR CLASS CBA UNITS WITH 10 YEAR                   WARRANTY. AS FOLLOWS: OVERALL THICKNESS:</li> </ul> </li> </ol>	<ol> <li>GLASS PRODUCTS:         <ol> <li>A. ANNEALED FLOAT GLASS: ASTM C 1036, TYPE I, QUALITY Q3, CLASS I.</li> <li>B. HEAT-TREATED (FULLY TEMPERED) FLOAT GLASS: ASTM C 1048, TYPE I, QUALITY-Q3, CLASS I, KIND FT.</li> <li>C. INSULATING GLASS: FACTORY-ASSEMBLED, SEEDED LITES OF LOW-E GLASS SEPARATED BY DEHYDRATED INNERSPACE, ASTM E 774 FOR</li> </ol> </li> </ol>	<ol> <li>ACOUSTICAL PANELS: CLASS A, COMPLYING WITH ASTM E 1264 CLASSIFICATIONS FOR TYPES, PATTERNS, ACOUSTICAL RATINGS AND LIGHT REFLECTANCE.</li> <li>A. ACOUSTICAL PANEL: 24" X 24" X 3/4", ARMSTRONG "MESA", ANGLED TEGULAR LAY-IN SECOND LOOK, #686.</li> <li>METAL SUSPENSION SYSTEM: NARROW-FACE,</li> </ol>	1. SOLID POLYMER UNITS UNITS WITH OVERHEAD BRACED TOILET ENCLOSURES AND WALL HUNG URINAL SCREENS.  A. MANUFACTURERS: ACCURATE PARTITONS CORP. AMCO INC. COMTEE INDUSTRIES/CAPITOL PARTITIONS. METCAR CORP.  B. DOOR, PANEL, SCREEN AND PILASTER	1. GENERAL: A. OBTAIN EQUIPMENT (EXTINGUISHERS AND CABINETS) FROM ONE SOURCE (SINGLE MANUFACTURER). COORDINATE SIZE OF CABINET TO ENSURE ACCOMMODATION OF EXTINGUISHER TYPE AND CAPACITY.  B. FABRICATE AND LABEL EXTINGUISHERS TO COMPLY WITH NFPA 10, "PORTABLE FIRE EXTINGUISHERS". LIST AND LABEL FOR TYPE,		Frchitect
A. EXTERIOR DOORS AND WHERE NOTED: LEVEL 3 AND PHYSICAL PERFORMANCE LEVEL (A) (EXTRA HEAVY DUTY), MODEL 2 SEAMLESS WITH METALLIC-COATED FACE SHEETS. CORE CONSTRUCTION: POLYSTYRENE THERMAL RATED. R-VALUE 2.8 OR BETTER. B. INTERIOR DOORS: FLUSH PANEL, MANUFACTURERS STANDARD KRAFT-PAPER HONEYCOMB OR ONE PIECE POLYSTYRENE	(1"); (EACH LITE 1/4"). SPACER AND SEAL:	CLASS CBA AND AS FOLLOWS: OVERALL THICKNESS: (1"); (EACH LITE 1/4"). SPACER AND DUAL SEAL: MANUFACTURER'S STANDARD. INDOOR LITE: (TYPE I, CLASS 1, CLEAR FLOAT GLASS). OUTDOOR LITE: (TYPE I, CLASS 2, TINTED FLOAT GLASS).  D. GLAZING GASKETS: NEOPRENE, ASTM C 864. E. GLAZING SEALANTS: NEUTRAL-CURING SILICONE, CLASS 50, TYPE S, GRADE NS (DOW 791 OR	CAPPED, DOUBLE-WEB, STEEL, INTERMEDIATE-DUTY, WITH PAINTED WHITE ALUMINUM CAP AND COMPLYING WITH ASTM A 653. MANUFACTURERS: ARMSTRONG, CHICAGO METALLIC, AND USG.  3. METAL EDGE MOLDINGS AND TRIM: ROLL-FORMED SHEET-METAL, OF SAME MATERIAL, FINISH, AND COLOR AS GRID.	CONSTRUCTION: SOLID POLYPROPLENE (PP) PANEL MATERIAL LESS THAN 1" THICK SEAMLESS, WITH EASED EDGES AND WITH HOMOGENOUS COLOR AND PATTERN THROUGHOUT THICKNESS OF MATERIAL. C. FINISH/COLOR: SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL REANGE, WITH MANUFACTURER'S STANDARD THROUGH - COLOR CORE MATCHING FACE SHEET.	RATING, AND CLASSIFICATION.  2. PORTABLE FIRE EXTINGUISHERS: A. MANUFACTURER/MODEL: J.L. INDUSTRIES COSMIC 10E. B. MULTIPURPOSE DRY-CHEMICAL TYPE: 10 LBS. CAPACITY.  3. MOUNTING BRACKETS: MANUFACTURER'S		pp pp dg
CORE. COMPLIES WITH ASTM A 1008/A 1008M.  C. HARDWARE REINFORCEMENT: ANSI/SDI A250.6.  FRAMES STANDARD: FABRICATE WITH MITERED AND WELDED FACE CORNERS (AND SEAMLESS FACE JOINTS). COMPLY WITH ANSI A250.8. FACTORY PRIME, ANSI A250.10, FOR FIELD PAINTING.  A. EXTERIOR FRAMES: 0.067" (14 GAUGE) THICK METALLIC-COATED STEEL SHEET.	2. WINDOW FABRICATION: COMPLY WITH AAMA/NWWDA 101.I.S.2 PERFORMANCE REQUIREMENTS. INCLUDE COMPLETE SYSTEM FOR ASSEMBLING COMPONENTS AND ANCHORING WINDOWS. FACTORY-GLAZE WITH SNAP-ON INTERIOR GLAZING STOPS.  3. WINDOW INSTALLATION: COMPLY WITH	PECORA 865).  F. GLAZING TAPES: PREFORMED, BUTLY-BASED ELASTOMERIC, ASTM C 1281 AND AAMA 800.  G. ACCESSORIES: PRIMERS, SEALERS, SETTING BLOCKS, SPACERS, AND EDGE BLOCKS.  2. INSTALLATION: COMPLY WITH COMBINED WRITTEN INSTRUCTIONS OF MANUFACTURERS OF GLASS, SEALANTS, GASKETS, AND OTHER GLAZING	4. INSTALL TO COMPLY WITH ASTM C 636, PER MANUFACTURER'S WRITTEN INSTRUCTIONS, AND CISCA'S "CEILING SYSTEM HANDBOOK". SUPPORT LIGHT FIXTURES AT FOUR CORNERS WITH WIRE HANGERS.  SECTION 096513 - RESILIENT WALL BASE AND ACCESSORIES  1. RESILIENT WALL BASE: ASTM F 1861, TYPE TS,	<ul> <li>D. ACCESSORIES (CHROME PLATED): HEAD RAILS, PILASTER SHOES, ANCHORS, AND FASTENERS.</li> <li>E. DOORS: STANDARD 24" WIDE, IN-SWINGING; ACCESSIBLE 32" MINIMUM CLEAR OPENING, OUTSWINGING.</li> <li>F. DOOR HARDWARE: STAINLESS STEEL HINGES, LATCH AND KEEPER, COAT HOOK, DOOR BUMPER, AND DOOR PULL.</li> </ul>	STANDARD STEEL, WITH BAKED-ENAMEL FINISH AND DESIGNED FOR VERTICAL, WALL-MOUNTING.  4. INSTALLATION: (PREPARE RECESSES FOR RECESSED CABINETS.) INSTALL UNITS IN LOCATIONS AND AT MOUNTING HEIGHTS INDICATED (OR AT 54" FROM FINISH FLOOR TO TOP OF CABINET. ADJUST CABINET DOORS.		
<ul> <li>B. INTERIOR FRAMES: 0.053" (16 GAUGE) THICK STEEL SHEET.</li> <li>C. HARDWARE REINFORCEMENT: ANSI/SDI A250.6.</li> <li>D. JAMB AND FLOOR ANCHORS: 0.042" (18 GAUGE) THICK, ADJUSTABLE WHERE NECESSARY.</li> <li>HARDWARE PREPARATION: FACTORY PREPARE TO RECEIVE TEMPLATED MORTISED HARDWARE INCLUDING CUTOUTS, REINFORCEMENT, DRILLING</li> </ul>	MANUFACTURER'S WRITTEN INSTRUCTIONS FOR INSTALLING WINDOWS, HARDWARE, ACCESSORIES, AND OTHER COMPONENTS. PROTECT AGAINST GALVANIC ACTION. INSTALL COMPONENTS PLUMB AND TRUE IN ALIGNMENT WITH ESTABLISHED LINES AND GRADES AND TO DRAIN CONDENSATION AND PENETRATING WATER. SET SILLS IN FULL SEALANT BED. ADJUST OPERATING SASHES AND VENTILATORS, HARDWARE, AND OPERATORS FOR	MATERIALS. PROVIDÉ NECESSARY BITE, MINIMUM EDGE AND FACE CLEARANCES, ADEQUATE SEALANT THICKNESS, AND REASONABLE TOLERANCES. INSTALL SETTING BLOCKS AND PROVIDE PRIMERS, SPACERS, AND EDGE BLOCKS WHERE REQUIRED. SET GLASS UNITS BY (DRY GASKET GLAZING) (WET SEALANT GLAZING) (TAPE GLAZING).	GROUP I, COVED STYLE, 4" 6" IN TOILETS HIGH X 1/8" THICK, WITH (PRE-FORMED OUTSIDE CORNERS). MANUFACTURER/COLOR: JOHNSONITE  2. PREPARE AND INSTALL COMPLYING WITH MANUFACTURER'S WRITTEN INSTRUCTIONS TO ENSURE ADHESION.	2. INSTALLATION: COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. INSTALL UNITS RIGID STRAIGHT, LEVEL, AND PLUMB AND SECURE WITH MANUFACTURER'S RECOMMENDED ANCHORING DEVICES. SECURE PILASTERS TO FLOOR AND HEADRAIL. HANG DOORS AND ADJUST FOR ALIGNMENT AND OPERATION.  SECTION 102600 - WALL AND DOOR PROTECTION			A GINDEL BERGEF
TAPPING.  INSTALL DOORS AND FRAMES PLUMB, RIGID, PROPERLY ALIGNED, AND SECURELY FASTENED.	TIGHT FIT AND SMOOTH OPERATION.  SECTION 087100 - DOOR HARDWARE	DIVISION 09 - FINISHES  1. SECTION 092216 - NON-STRUCTURAL METAL	SECTION 096516.13 LINOLEUM FLOORING	1. MANUFACTURERS: A. BASIS-OF-DESIGN: CONSTRUCTION SPECIALTIES "ACROVYN".  B. ACCEPTABLE: (IRC) (ICOROCARR) (PANALING)  The second of the sec			
<ul> <li>A. FRAMES: COMPLY WITH SDI A250.11. BRACE SECURELY UNTIL PERMANENT ANCHORS ARE SET.</li> <li>B. DOORS: FIT ACCURATELY IN FRAMES, WITHIN SPECIFIED CLEARANCES: 1/8' +/- 1/16" AT JAMBS, HEAD, AND BETWEEN DOORS; 3/8" MAXIMUM</li> </ul>	1. SUPPLIER QUALIFICATIONS: EMPLOYEE CURRENTLY CERTIFIED BY DHI AS AN ARCHITECTURAL HARDWARE CONSULTANT AND RESPONSIBLE FOR PREPARATION OF DOOR HARDWARE AND KEYING SCHEDULES (AND DISTRIBUTION OF TEMPLATES).	FRAMING MEMBERS, GENERAL: COMPLY WITH ASTM C 754 FOR CONDITIONS INDICATED.  A. STEEL SHEET COMPONENTS: ASTM C 645.  B. PROTECTIVE COATING: ASTM A 653/A 653M G40, HOT-DIP GALVANIZED.  2. SUSPENSION SYSTEM COMPONENTS:	<ol> <li>MCT - MARMOLEUM COMPOSITE TILE: ASTM F 1700.         13 x 13 INCHES. 0.080 INCH THICKNESS.         MANUFCATURER/TYPE/COLOR: FORBO FLOORING.     </li> <li>PREPARE AND LAY COMPLYING WITH MANUFACTURER'S WRITTEN INSTRUCTIONS TO</li> </ol>	<ul> <li>B. ACCEPTABLE: (IPC) (KOROGARD) (PAWLING).</li> <li>2. WALL (AND DOOR) PROTECTION TYPES: <ul> <li>A. 2" END-WALL GUARDS: ACROVYN (FSC-25 FLUSH) (SSH-20 SURFACE).</li> <li>B. 4" SURFACE WALL GUARDS: (ACROVYN SCR-40).</li> <li>C. WALL COVERINGS: (ACROVYN .040 RIGID SHEET)</li> </ul> </li> </ul>			AGE
BETWEEN DOOR AND THRESHOLD; AND 3/4" BETWEEN DOOR AND FINISH FLOOR. SHIM AS NECESSARY.(INSTALL FIRE-RATED DOORS WITH CLEARANCES ACCORDING TO NFPA 80.) C. GLAZING: SECURE STOPS WITH COUNTERSUNK MACHINE SCREWS AT 9" O.C. AND 2" FROM CORNERS.  ION 083613 OVERHEAD DOORS	<ol> <li>MANUFACTURER AND SERIES:         <ul> <li>A. HINGES: (IVES 5BB1 4-1/2 X 4-1/2).</li> <li>B. LOCKSETS (HEAVY DUTY COMMERCIAL), (BORED, GRADE 1), (SARGENT 7-LINE CYLINDRICAL LEVER LOCK).</li> <li>C. EXIT DEVICES: (VON DUPRIN 99).</li> <li>D. CLOSERS: (LCN 4040).</li> <li>E. WALL STOPS: (IVES 407)</li> <li>F. THRESHOLDS: (NATIONAL GUARD 896).</li> </ul> </li> </ol>	<ul> <li>2. SUSPENSION SYSTEM COMPONENTS:</li> <li>A. TIE WIRE: ASTM A 641/A, CLASS 1, ZINC COATING, 0.0625".</li> <li>B. WIRE HANGERS: ASTM A 641/A, CLASS 1, ZINC COATING, 0.162".</li> <li>C. CARRYING CHANNELS: COLD-ROLLED, STEEL SHEET, 0.0538" WITH MINIMUM 1/2" FLANGES.</li> <li>D. FURRING CHANNELS: COLD-ROLLED, STEEL SHEET, 0.0538" WITH MINIMUM 1/2" FLANGES, 3/4" DEEP</li> </ul>	ENSURE ADHESION.  A. PREPARE CONCRETE SUBSTRATES ACCORDING TO ASTM F 710. USE TROWELABLE LEVELING AND PATCHING COMPOUND TO FILL CRACKS, HOLES, AND DEPRESSIONS AND TO TRANSITION SMALL CHANGES IN ELEVATION OF SUBSTRATE.  B. INSTALLATION: LAY TILES (SQUARE WITH ROOM), (WITH ALTERNATING GRAIN DIRECTION), AND WITH EQUAL WIDTH TILES AT OPPOSITE ENDS	(ACROVYN .060" HIGH IMPACT SHEET).  3. MATERIALS: A. PLASTIC SHEET WALL COVERING: ASTM D 1784, CLASS 1, TEXTURED, CHEMICAL- AND STAIN-RESISTANT, SEMIRIGID, HIGH-IMPACT-RESISTANT PVC OR ACRYLIC-MODIFIED VINYL PLASTIC SHEET WITH INTEGRAL COLOR THROUGHOUT.  B. FASTENERS AND ADHESIVE: TYPE			C US GAR
SECTIONAL OVERHEAD DOORS OF THE FOLLOWING TYPES: FLUSH STEEL DOORS, THERMALLY-BROKEN, POLYSTYRENE INSULATED. ELECTRIC DOOR OPENERS. REFERENCES A. ASTM A 653/A 653M - SPECIFICATION FOR STEEL SHEET, ZINC-COATED (GALVANIZED) OR ZINC-IRON ALLOY-COATED (GALVANEALED) BY THE	G. PUSH-PULL PLATES: (ROCKWOOD 70 6" X 16") AND (107 X 70C 4" X 16"). H. FLUSH BOLTS: (ROCKWOOD 1942). I. KICK PLATES: (INPRO .060 HIGH IMPACT). J. WEATHERSTRIPPING: (NATIONAL GUARD 133NDKB). K. KEYING SYSTEM: (MASTER KEY SYSTEM) COORDINATE WITH OWNER.	<ul> <li>E. HAT-SHAPED RIGID FURRING CHANNELS: ASTM C 645, 7/8".</li> <li>3. STEEL FRAMING FOR FRAMED ASSEMBLIES: <ul> <li>A. STEEL STUDS AND RUNNERS: ASTM C 645, (0.0312, 20 GAUGE), (3-5/8") DEPTH (AND SLIP-TYPE HEAD JOINTS).</li> <li>B. RESILIENT FURRING CHANNELS: 1/2" DEEP,</li> </ul> </li> </ul>	OF THE ROOM.  SECTION 099100 - PAINTING  1. PRODUCTS: COMPLY WITH "MPI APPROVED PRODUCTS LIST". APPROVED MANUFACTURERS: SHERWIN-WILLIAMS, BENJAMIN MOORE.	RECOMMENDED BY MANUFACTURER AND FOR USE WITH MATERIAL BEING ADHERED TO SUBSTRATE.  4. INSTALLATION: INSTALL UNITS LEVEL, PLUMB, AND TRUE TO LINE WITHOUT DISTORTIONS. DO NOT USE DEFECTIVE MATERIALS. PROVIDE SPLICES, MOUNTING HARDWARE, ANCHORS, AND			I DISTRICT AND BI
HOT DIP PROCESS.  B. ASTM B 209/209M - SPECIFICATION FOR ALUMINUM AND ALUMINUM-ALLOY SHEET AND PLATE.  WIND PERFORMANCE REQUIREMENTS  A. DESIGN DOORS TO WITHSTAND POSITIVE AND	<ol> <li>FINISHES: BHMA (619) EXCEPT ALUMINUM CLOSERS, INPRO KICKPLATES, AND BMHA (630) HARDWARE ON TOILET ROOM DOORS.</li> <li>INSTALLATION: MOUNT UNITS AT HEIGHTS PER DHI'S</li> </ol>	ASYMMETRICAL OR HAT SHAPED. C. COLD-ROLLED FURRING CHANNELS: 0.053", WITH 1/2" FLANGES AND 3/4" DEEP (UNLESS OTHERWISE INDICATED).  4. INSTALLATION STANDARD: ASTM C 754 AND (ASTM C	2. INTERIOR PAINTING WITH PREMIUM GRADE SYSTEMS: A. STEEL SUBSTRATES: a. PRIME COAT: ALKYD METAL PRIMER (MPI # 76).	ACCESSORIES FOR A COMPLETE INSTALLATION. (PROVIDE TOP AND EDGE MOLDING, CORNERS, AND DIVIDER BARS TO COMPLETE WALL COVERING INSTALLATION.)  SECTION 102800 - TOILET, BATH AND LAUNDRY			HOOL D
NEGATIVE WIND LOADS AS CALCULATED IN ACCORDANCE WITH APPLICABLE BUILDING CODE. DESIGN WIND LOAD: 20 LB/SF. SAFETY FACTOR: 1.5 TIMES DESIGN WIND LOAD.  DOOR CONSTRUCTION  A. PANELS:SANDWICH CONSTRUCTION OF EXTERIOR AND INTERIOR STEEL SKINS PRESSURE BONDED TO AN EXPANDED CORE, WITH SKINS SEPARATED BY A CONTINUOUS	("RECOMMENDED LOCATIONS FOR ARCHITECTURAL HARDWARE FOR STANDARD STEEL DOORS AND FRAMES") ("RECOMMENDED LOCATIONS FOR ARCHITECTURAL HARDWARE FOR WOOD FLUSH DOORS"). ADJUST AND CHECK EACH OPERATING ITEM TO ENSURE PROPER FUNCTION.  5. HARDWARE SETS:	840 FOR GYPSUM BOARD ASSEMBLIES). INSTALL FRAMING AND BLOCKING TO SUPPORT FIXTURES, EQUIPMENT SERVICES, GRAB BARS, TOILET ACCESSORIES, OR SIMILAR CONSTRUCTION. INSTALL STUDS AT (16") (24") O.C.  SECTION 092900 - GYPSUM BOARD	<ul> <li>b. TÓPCOAT: INTERIOR ALKYD (SEMIGLOSS) (MPI #47).</li> <li>B. STEEL SUBSTRATES:ALKYD SYSTEM (STEEL HANDRAILS)</li> <li>a. PRIME COAT: PRO INDUSTRIAL PRO-CRYL UNIVERSAL PRIMER.</li> <li>b. INTERMEDIATE COAT: MATCHING TOPCOAT.</li> <li>c. TOPCOAT: PRE-CATALYZED WATERBOASED EPOXY EG-SHEL.</li> </ul>	ACCESSORIES  1. MANUFACTURERS: A. BASIS-OF-DESIGN: BOBRICK CLASSIC SERIES. B. ACCEPTABLE: AMERICAN SPECIALTIES BRADLEY.  2. MATERIALS: A. STAINLESS STEEL: ASTM A 666, TYPE 304, 0.0312" MINIMUM.			D VANDA SC
SILICONE FILLING FORMING A THERMAL BREAK.  B. STEEL SKINS" FORMED FROM ROLL FORMED COMMERCIAL OR DRAWING QUALITY STEEL SHEET, HOT-DIP GALVANIZED PER ASTM A924//A 924M AND ASTM A 653/A 653M, PREPAINTED WITH PRIMER AND BAKED-ON POLYESTER TOPCOAT; SECTIONS FORMED TO CREATE WEATHER TIGHT TONGUE-IN-GROOVE MEETING JOINT, UNLESS OTHERWISE SPECIFIED.	A. SET 1 - OFFICE / CONFERENCE ROOM  a. 3 EA HINGE 5BB1 4.5 X 4.5 652 IVE  b. 1 EA OFFICE LOCK L057G05 619 SAR  c. 1 EA WALLS STOP WS407CCV 630 IVE  d. 3 EA DOOR SILENCERS  B. SET 2 - RESTROOM  a. 3 EA HINGE 5BB1 4.5 X 4.5 652 IVE  b. 1 EA CLOSER 4041 689 LCN  c. 1 EA PRIVACY SET L.11U465 619 SAR  d. 1 EA KICK PLATE 8400 8 X 35 US15 IVE	<ol> <li>INTERIOR GYPSUM BOARD: ASTM A 36.         <ul> <li>A. TYPICAL CONDITIONS: 5/8" TYPE X.</li> <li>B. WET AREAS AND GARAGES: 5/8" MOISTURE/MOLD RESISTANT TYPE.</li> <li>C. CEILINGS: 1/2" CEILING TYPE.</li> <li>D. INTERIOR WALLS: 5/8" TYPE X.</li> </ul> </li> <li>AUXILIARY MATERIALS:         <ul> <li>A. JOINT TREATMENT: JOINT TAPE AND COMPOUND</li> </ul> </li> </ol>	C. GYPSUM BOARD SUBSTRATES:  a. PRIMER: INTERIOR LATEX PRIMER/SEALER (MPI #50).  b. TOPCOAT:INTERIOR LATEX (SATIN) (MPI #43). (NOTE: PREMIUM GRADE REQUIRES INTERMEDIATE COAT MATCHING TOPCOAT).  3. STAINING AND TRANSPARENT FINISHING WITH	<ul> <li>B. SHEET STEEL: ASTM A 1008, DESIGNATION CS, COLD ROLLED, COMMERCIAL STEEL), 0.0359" MINIMUM.</li> <li>C. GALVANIZED STEEL MOUNTING DEVICES: ASTM A 153, HOT-DIPPED GALVANIZED AFTER FABRICATION.</li> <li>D. FASTENERS: SCREWS, BOLTS, AND OTHER DEVICES, TAMPER-AND-THEFT RESISTANT</li> </ul>			TALAV ISSUE
ELECTRIC DOOR OPERATORS  A. GENERAL: PROVIDE ELECTRIC DOOR OPERATOR PROVIDED BY DOOR MANUFACTURER FOR DOOR WITH OPERATION LIFE SPECIFIED COMPLETE WITH ELECTRIC MOTOR AND FACTORY PRE-WIRED CONTROLS, STARTER, GEAR-REDUCTION UNIT, CLUTCH, REMOTE-CONTROL STATIONS, CONTROL DEVICES,	e. 3 EA DOOR SILENCERS	FOR APPROPRIATE MATERIALS & APPLICATION.  B. TRIM ACCESSORIES: CONTROL JOINTS, CORNER BEADS, BULLNOSE BEADS, AND EDGE BEADS.  C. FASTENERS: STEEL DRILL SCREWS, ASTM C 100 (LAMINATING ADHESIVE FOR DIRECT ADHERENCE).  D. SOUND ATTENUATION BLANKETS: (2') ASTM C 665, TYPE I.	CUSTOM (PREMIUM) GRADE SYSTEMS: A. EXTERIOR FINISH CARPENTRY SUBSTRATES: SOLID-COLOR LATEX STAIN SYSTEM (MPI EXT 6.3K). a. PRIME COAT: EXTERIOR ALKYD WOOD PRIMER. b. TWO STAIN COATS: EXTERIOR SOLID-COLOR LATEX STAIN.	WHERE EXPOSED.  E. MIRRORS: ASTM C 1503, MIRROR GLAZING QUALITY, CLEAR-GLASS MIRRORS, 1/4" THICK.  3. FABRICATE UNITS WITH TIGHT SEAMS AND JOINTS AND EXPOSED EDGES ROLLED. HANG DOORS WITH CONTINUOUS STAINLESS-STEEL HINGE. PROVIDE FULLY CONCEALED ANCHORAGE. SUPPORT FRAMED MIRRORS WITH TAMPER-RESISTANT			NO. DATE DES 04/08/2022 PERMIT CONSTI
INTEGRAL GEARING FOR LOCKING DOOR, AND ACCESSORIES REQUIRED FOR PROPER OPERATION. COMPLY WITH NFPA 70. SOLENOID-OPERATED BRAKE.  B. ELECTRIC MOTOR: PROVIDE HIGH-STARTING TORQUE, REVERSIBLE, CONTINUOUS-DUTY, CLASS A INSULATED, ELECTRIC MOTOR, COMPLYING WITH NEMA MG 1, WITH OVERLOAD PROTECTION, SIZED TO START, ACCELERATE,	g. 1 EA THRESHOLD 520S ALU HAG h. 1 SET WEATHER GASKETING  D. SET 4 - BREAK/TRAINING a. 3 EA HINGE 5BB1 4.5 X 4.5 652 IVE b. 1 EA PASSAGE L157U15 619 SAR c. 1 EA KICK PLATE 8400 8 X 35 630 IVE d. 1 EA WALL STOP WS407CCV 630 IVE e. 3 EA DOOR SILENCERS  E. SET 5 - EXIT	3. APPLICATION AND FINISH: COMPLY WITH ASTM C 840. (SINGLE-LAYER) APPLICATION WITH EDGE AND END JOINTS OVER SUPPORTS AND VERTICAL JOINTS STAGGERED ON OPPOSITE SIDES OF PARTITIONS. ATTACH TRIM ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. FINISH BOARD IN CONCEALED AREAS TO LEVEL 1 AND TO LEVEL 4 IN	<ol> <li>PREPARE AND APPLY COMPLYING WITH REQUIREMENTS IN "MPI ARCHITECTURAL PAINT SPECIFICATIONS MANUAL" AND MANUFACTURER'S WRITTEN INSTRUCTIONS.</li> <li>A. APPLY ONLY WHEN SURFACE AND AIR TEMPERATURES ARE BETWEEN 50 &amp; 95 DEG F.</li> <li>B. CLEAN SUBSTRATES OF SUBSTANCES THAT COULD IMPAIR BONDING, INCLUDING DIRT, OIL,</li> </ol>	INSTALLATION.  4. TOILET AND BATH ACCESSORY SCHEDULE SURFACE MOUNTED UNITS UNLESS OTHERWISE NOTED BOBRICK PRODUCTS BASIS-OF-DESIGN:  A. TOILET TISSUE ROLL DISPENSER: B-7685 SINGLE, SUPPORT ARMS AND SPINDLE.  B. SEMI RECESSED PAPER TOWEL DISPENSER AND			E
PROTECTION, SIZED TO START, ACCELERATE, AND OPERATE DOOR IN EITHER DIRECTION.  a. TYPE: JACKSHAFT b. HP	a. 3 EA HINGE 5BB1 4.5 X 4.5 652 IVE b. 1 EA CLOSER 4041 689 LCN c. 1 EA EXIT HARDWARE 99L-FX06 626 VON d. 1 EA KICK PLATE 8400 8 X 2 LDW 630 IVE e. 1 EA THRESHOLD 520S ALU HAG f. 1 SET WEATHER GASKETING  F. SET 6 - MULTI USER RESTROOM a. 4 EA HINGE 5BB1 4.5 X 4.5 606 IVE	EXPOSED AREAS.	GREASE, RUST, AND INCOMPATIBLE PAINT. C. COUNTERSINK STEEL NAILS AND PUTTY (TINTED). D. APPLY BY BRUSH UNLESS OTHERWISE NOTED OR APPROVED. E. APPLY ADDITIONAL COATS UNTIL UNDERCOATS OR OTHER CONDITIONS DO NOT SHOW THROUGH.	WASTE RECEPTACLE B-3942 OR EQUAL. C. GRAB BARS 1-1/2", SATIN FINISH WITH PEENED GRIP AND CONCEALED MOUNTING:B-6806 STRAIGHTBARS: REFER TO SHEET A0.1 FOR SIZES. D. MIRROR UNIT ANGLE FRAME:B-290 1836.  5. INSTALLATION: ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, USING FASTENERS			DATE 04/08
A. EXAMINE WALL AND OVERHEAD AREAS, INCLUDING OPENING FRAMING AND BLOCKING, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES, CLEARANCES, AND OTHER CONDITIONS AFFECTING PERFORMANCE OF WORK IN THIS SECTION.	b. 1 EA CLOSER 4041 689 LCN c. 1 EA PUSH PLATE 8200 4 X 16 US4 IVE d. 1 EA PULL PLATE 8190 3-1/4 X 12 US4 IVE e. 1 EA KICK PLATE 8400 8 X 35 US4 IVE f. 3 EA DOOR SILENCERS		* * * * * * * * * * * * * * * * * * * *	APPROPRIATE TO SUBSTRATE INDICATED AND RECOMMENDED BY MANUFACTURER. INSTALL LEVEL, PLUMB, AND FIRMLY ANCHORED IN LOCATIONS AND AT HEIGHTS INDICATED.			JOB NO. 3977  DRAWN MLG  CHECKED RFW  COPYRIGHT © 2022 - App Ar
							SHEET NO.
							<b>G</b> 0.

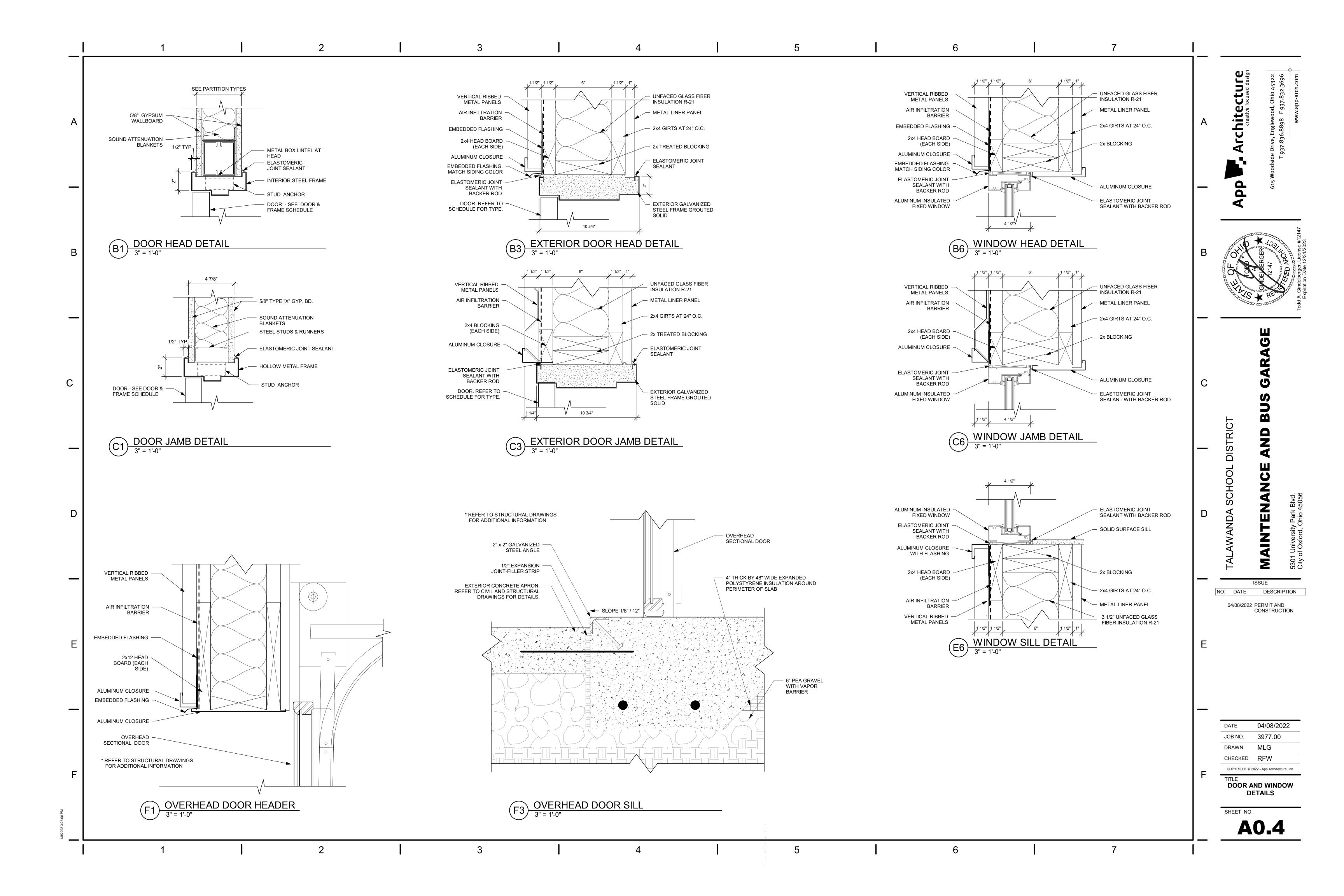


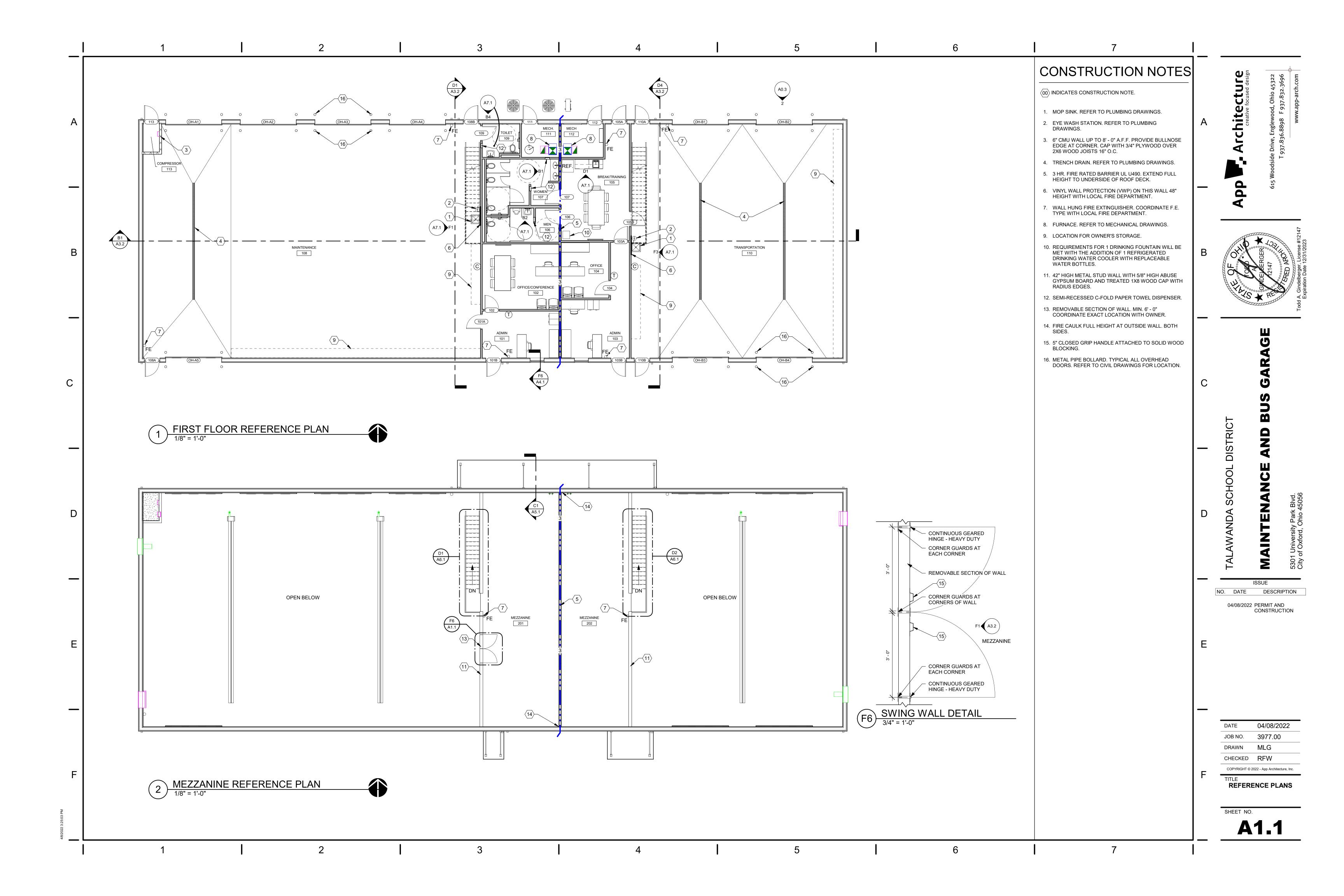


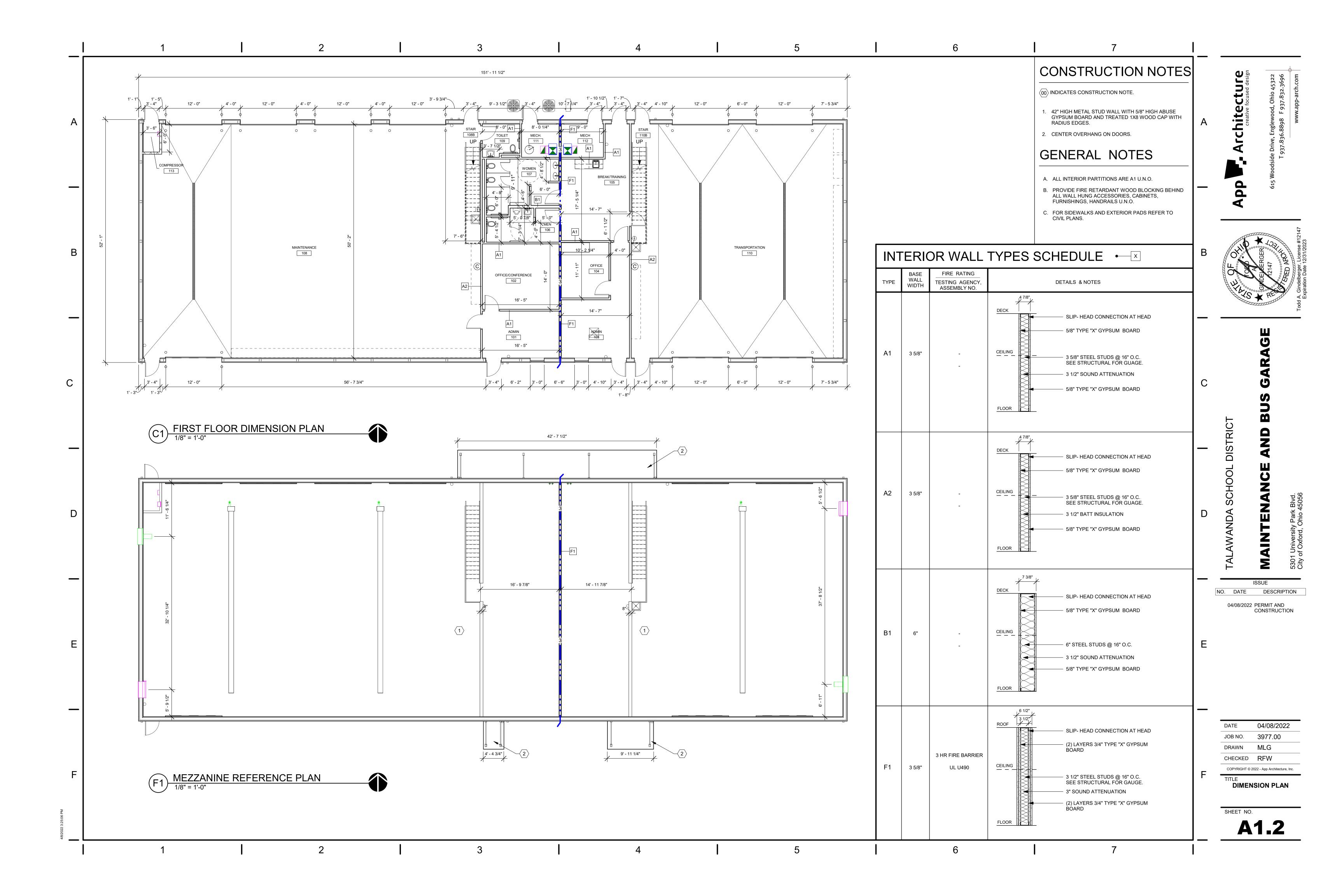


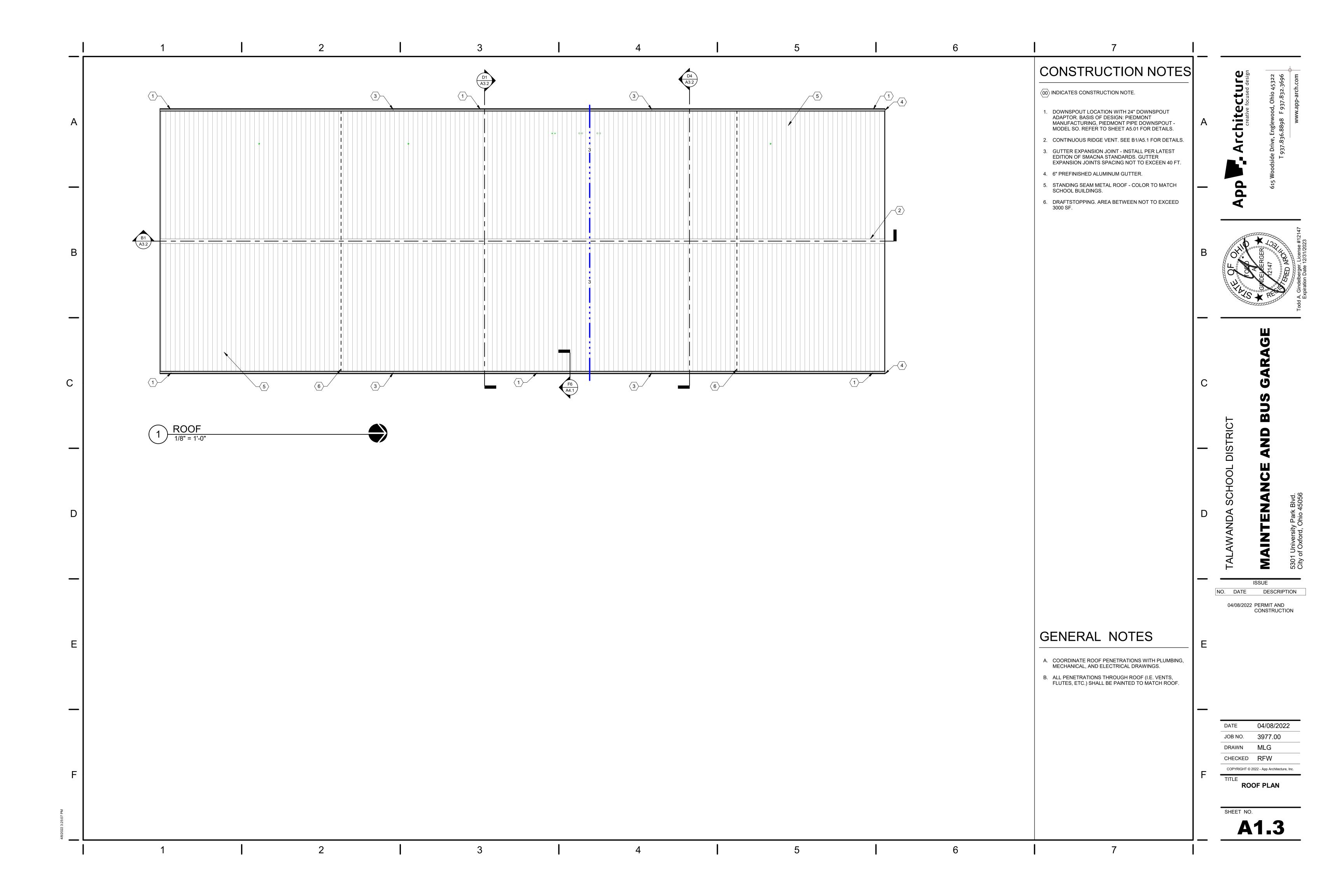


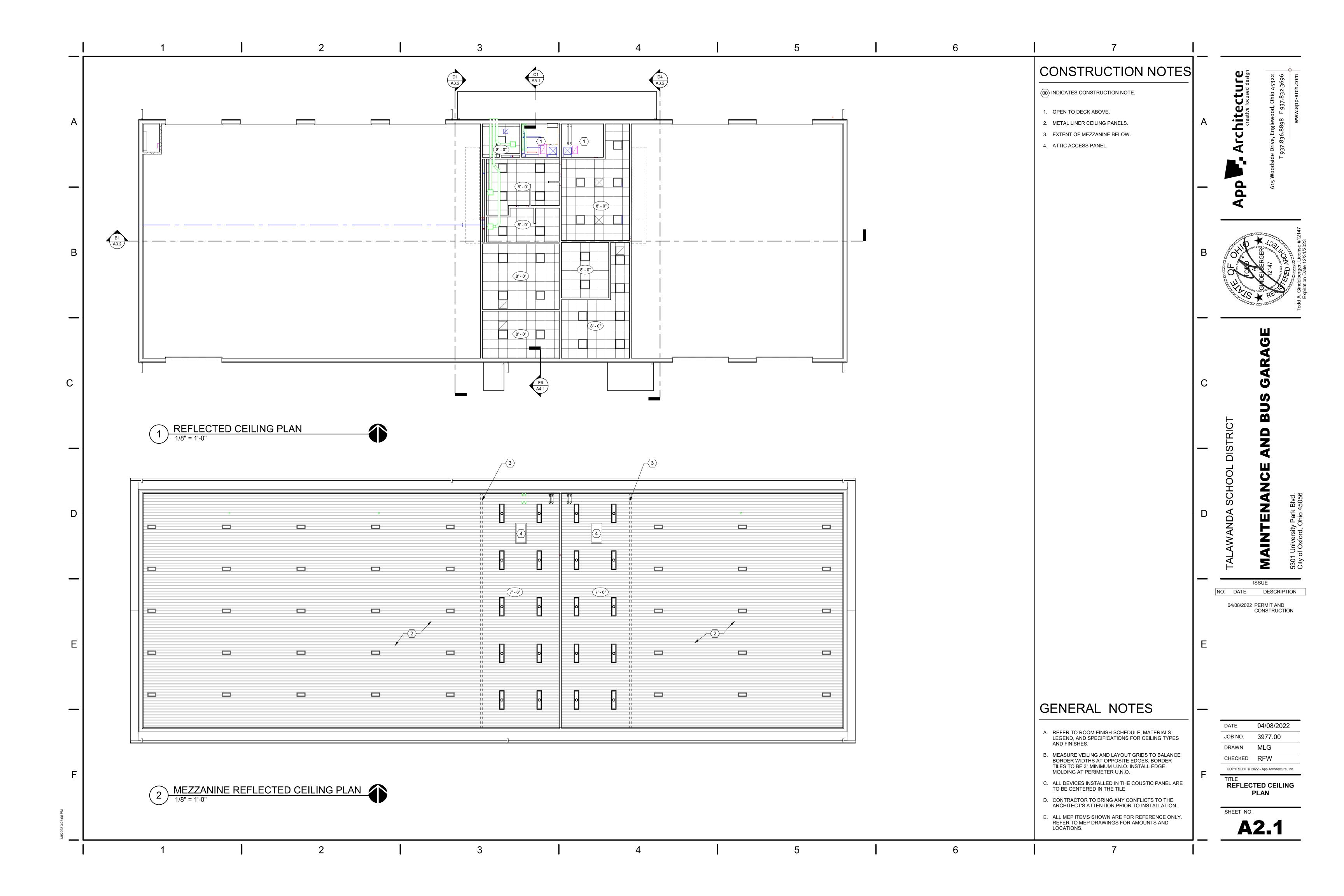


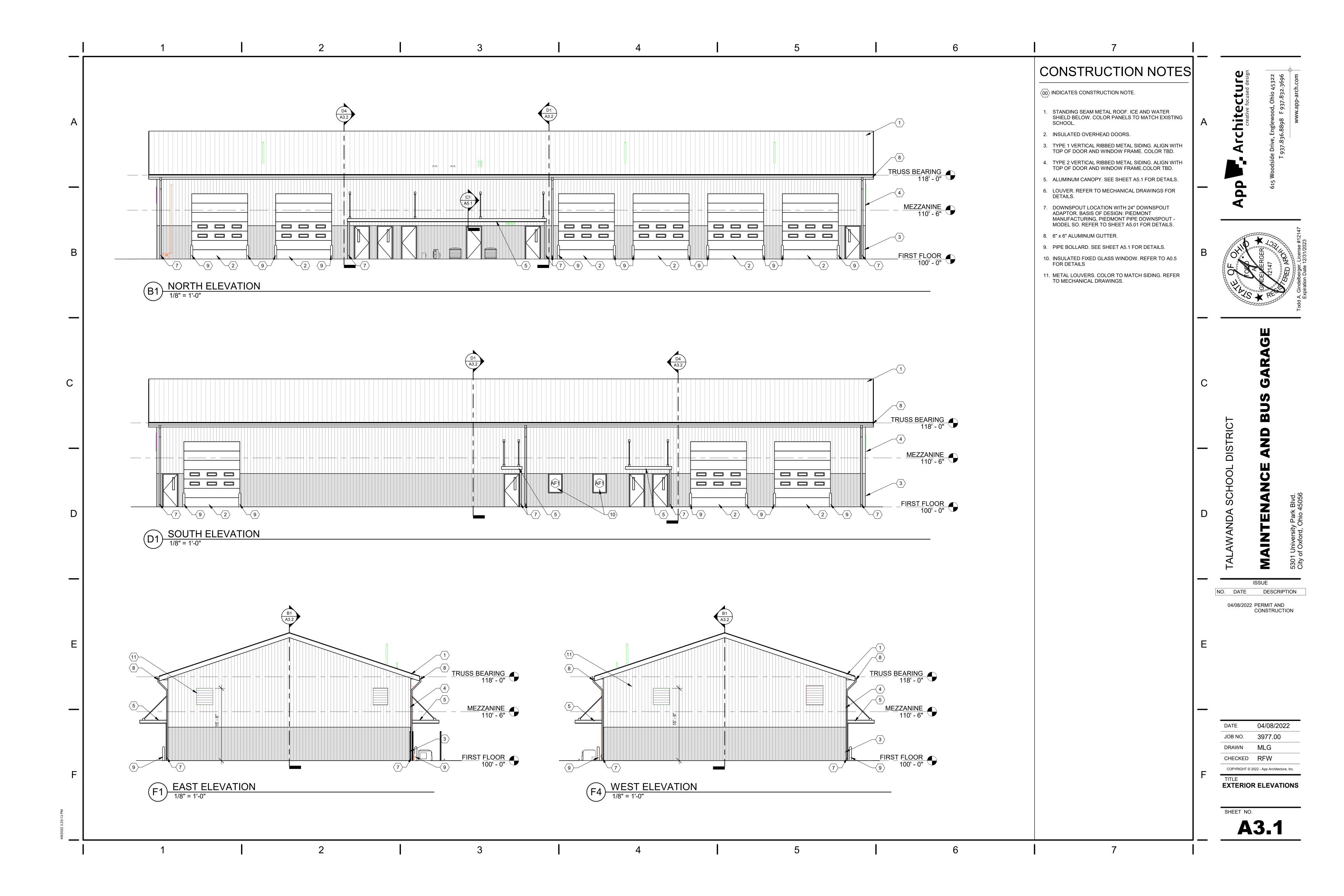


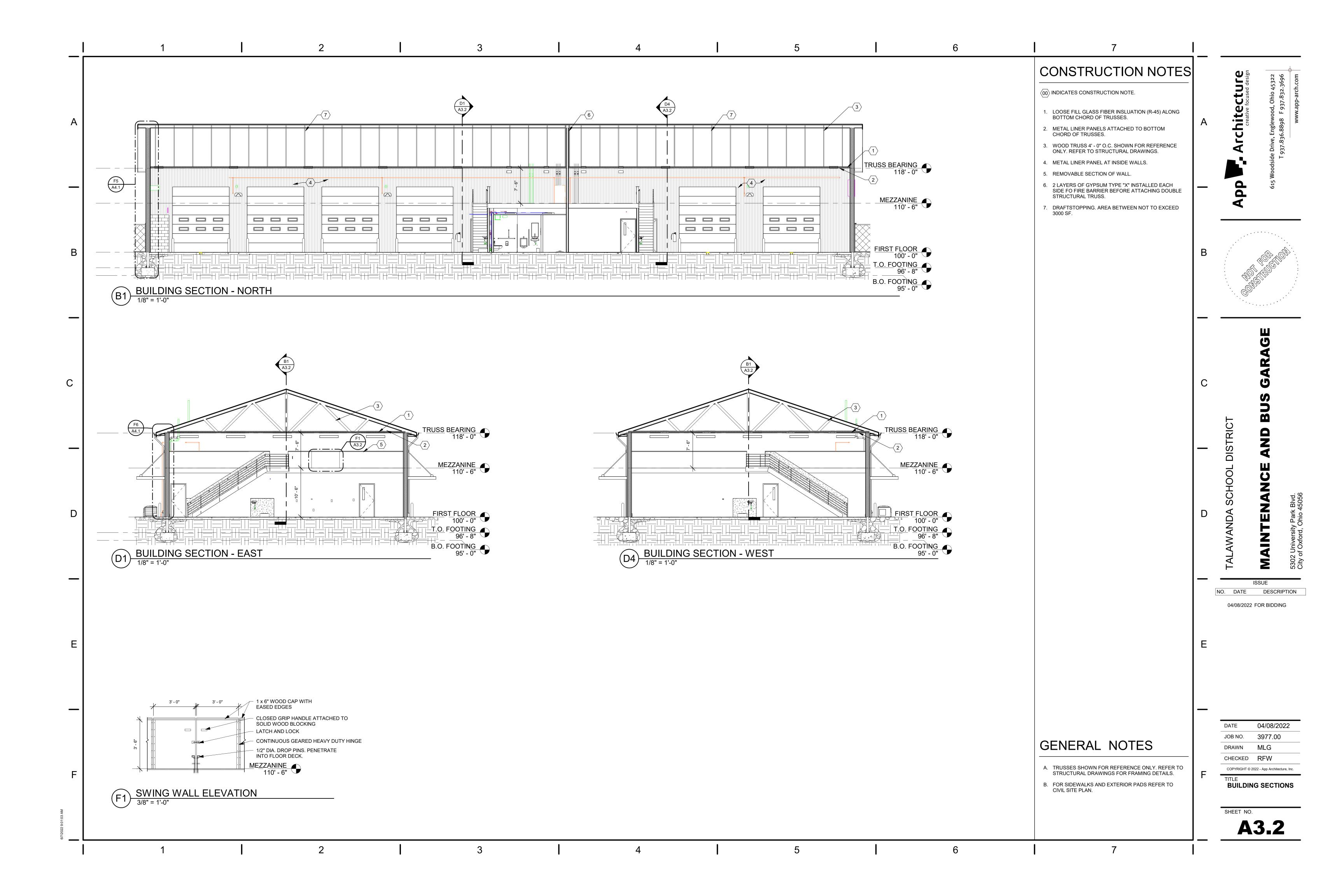


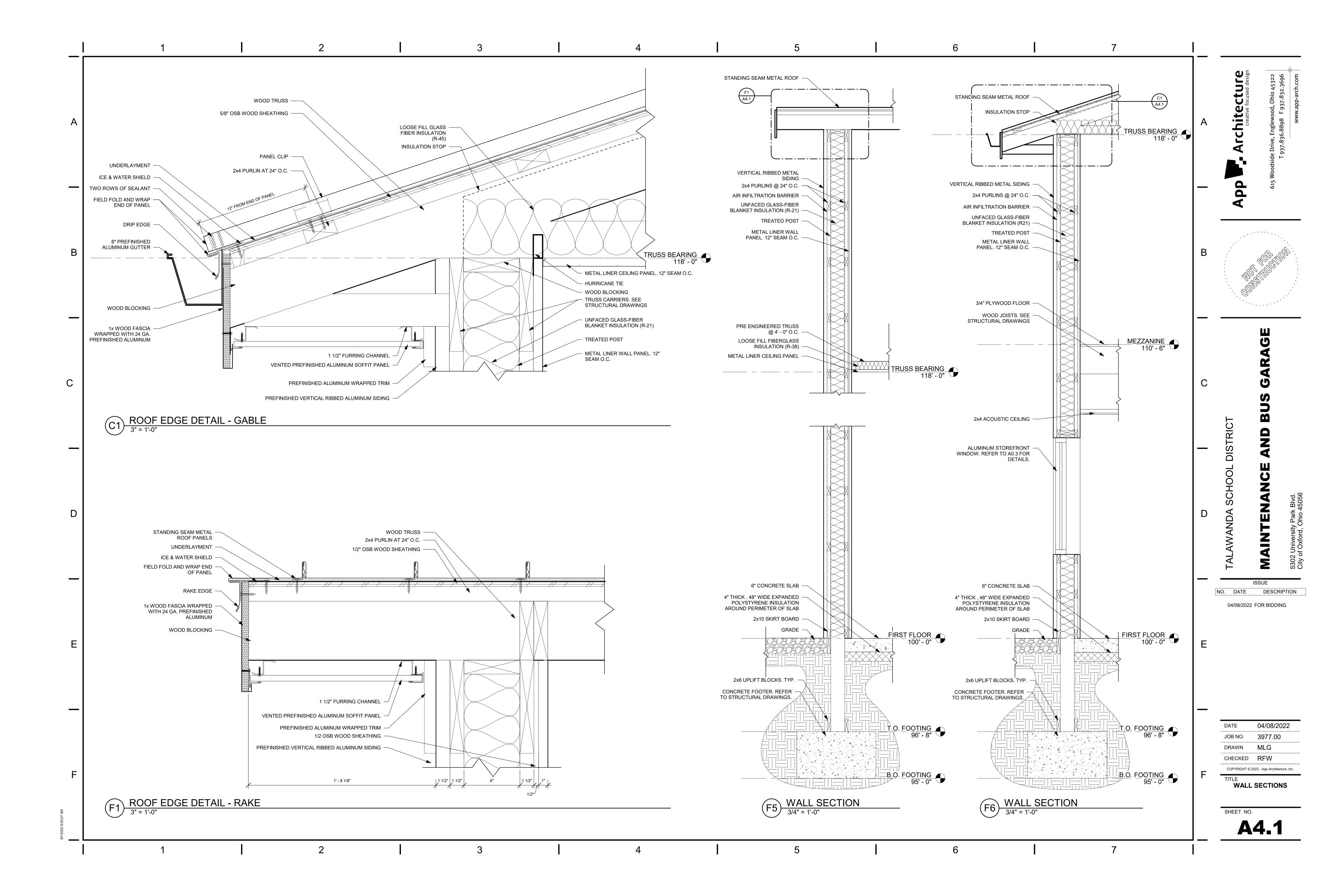


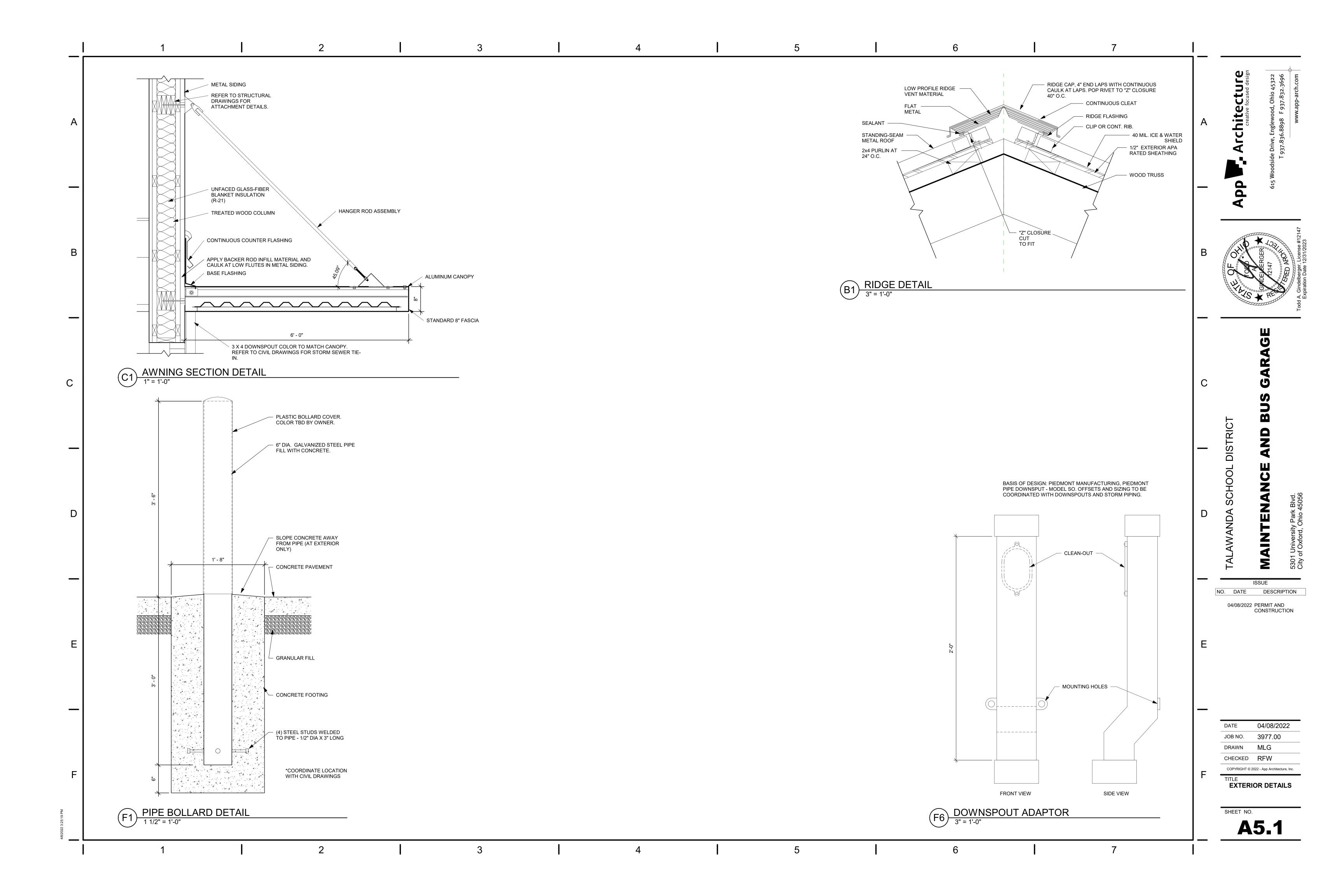


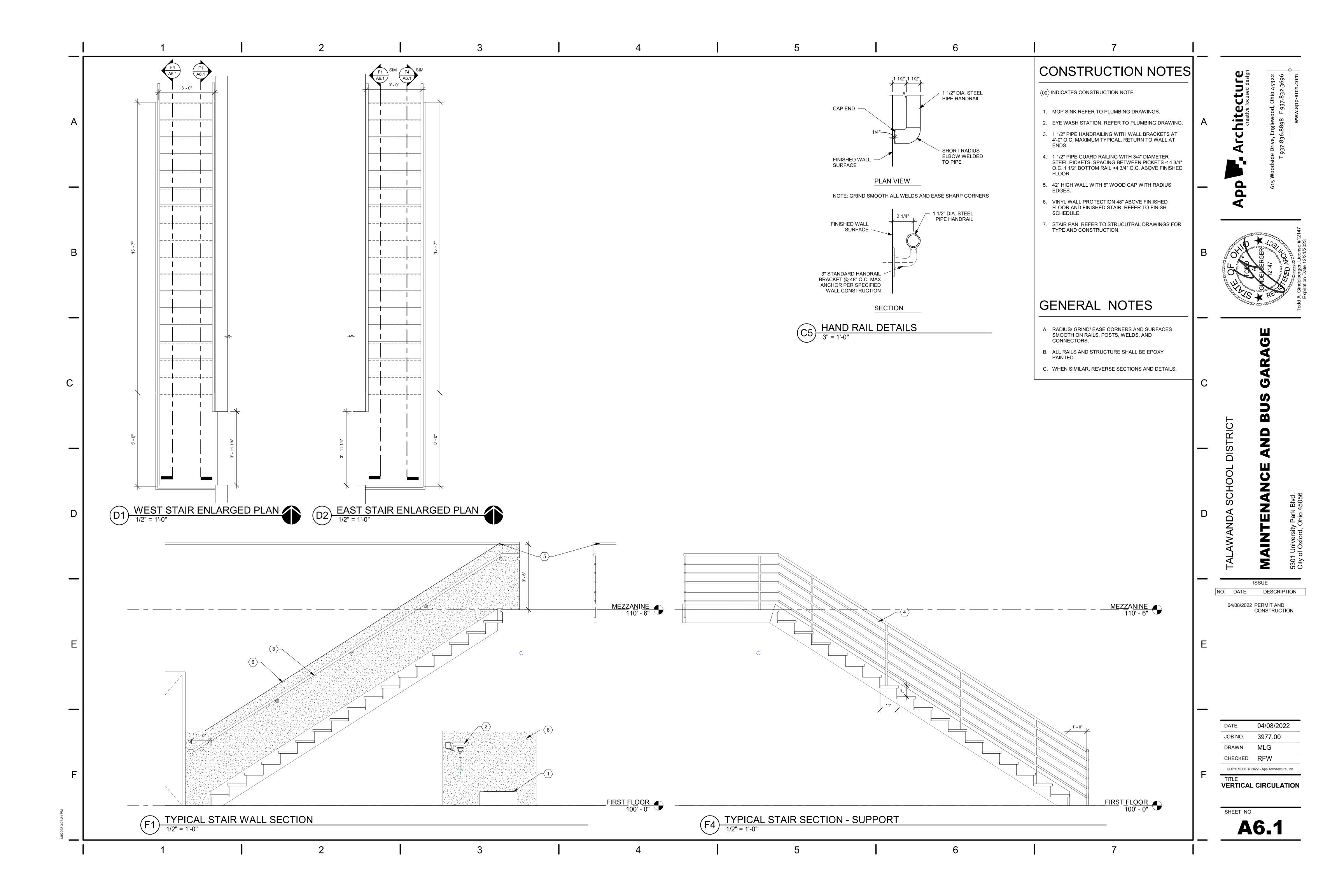


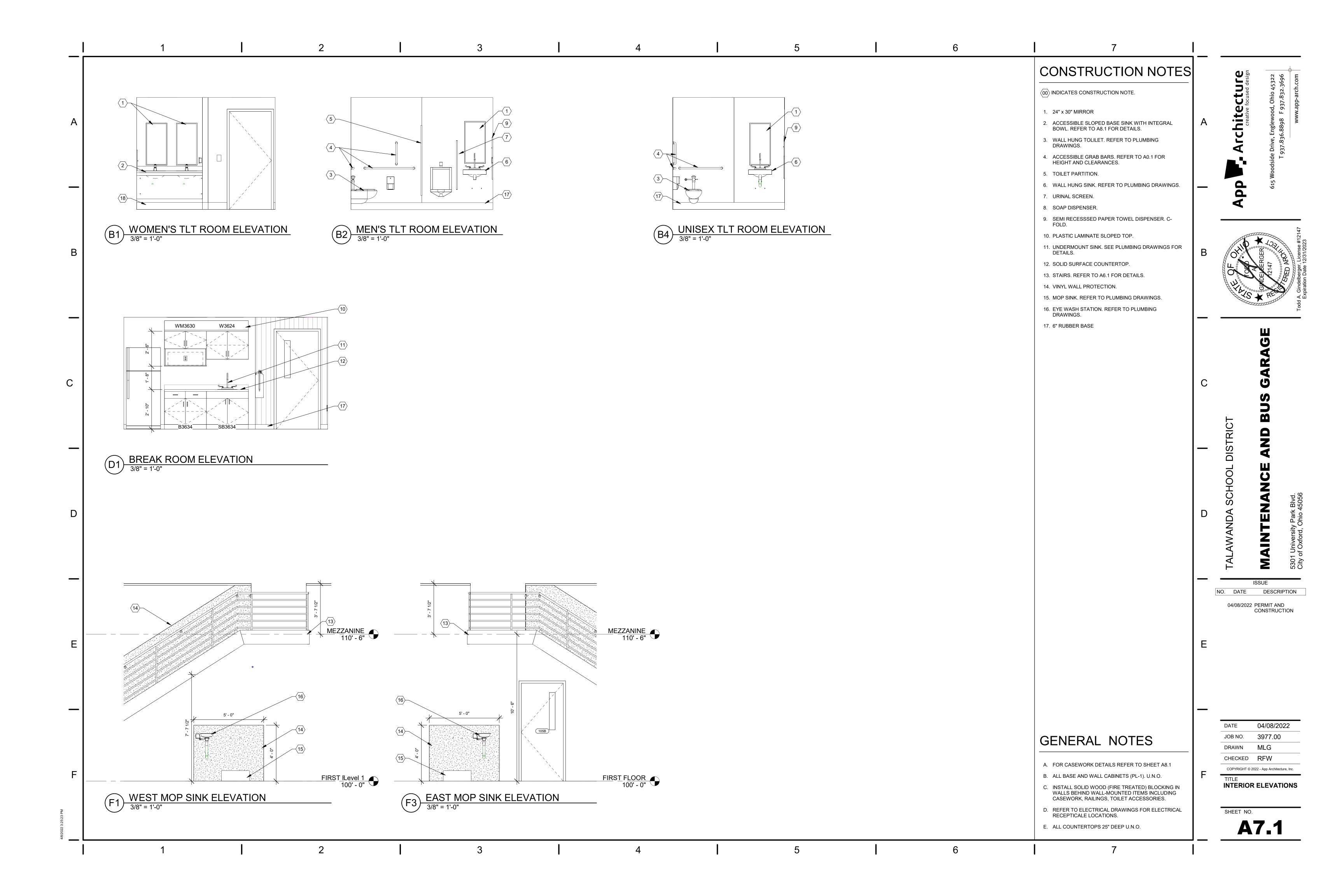


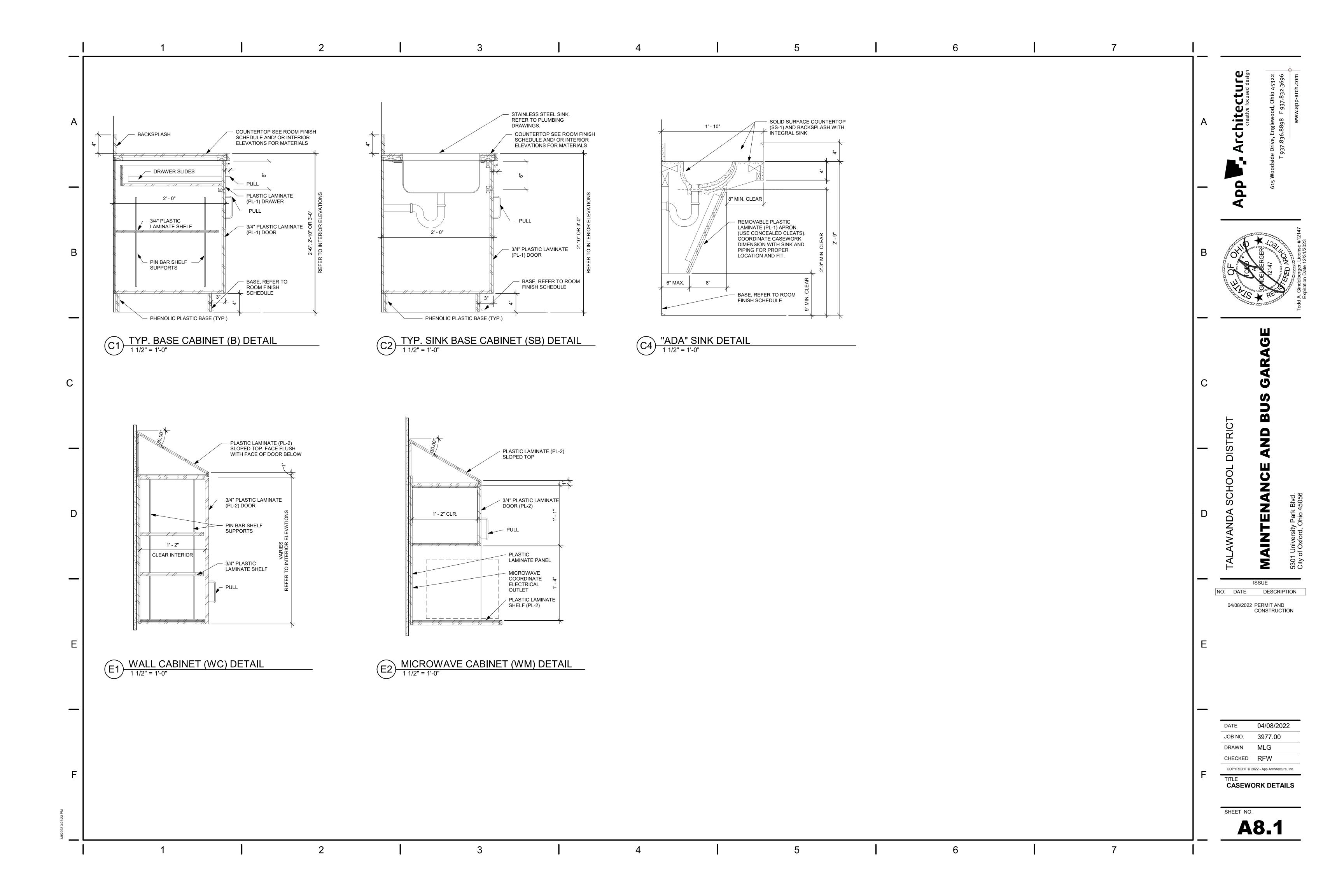








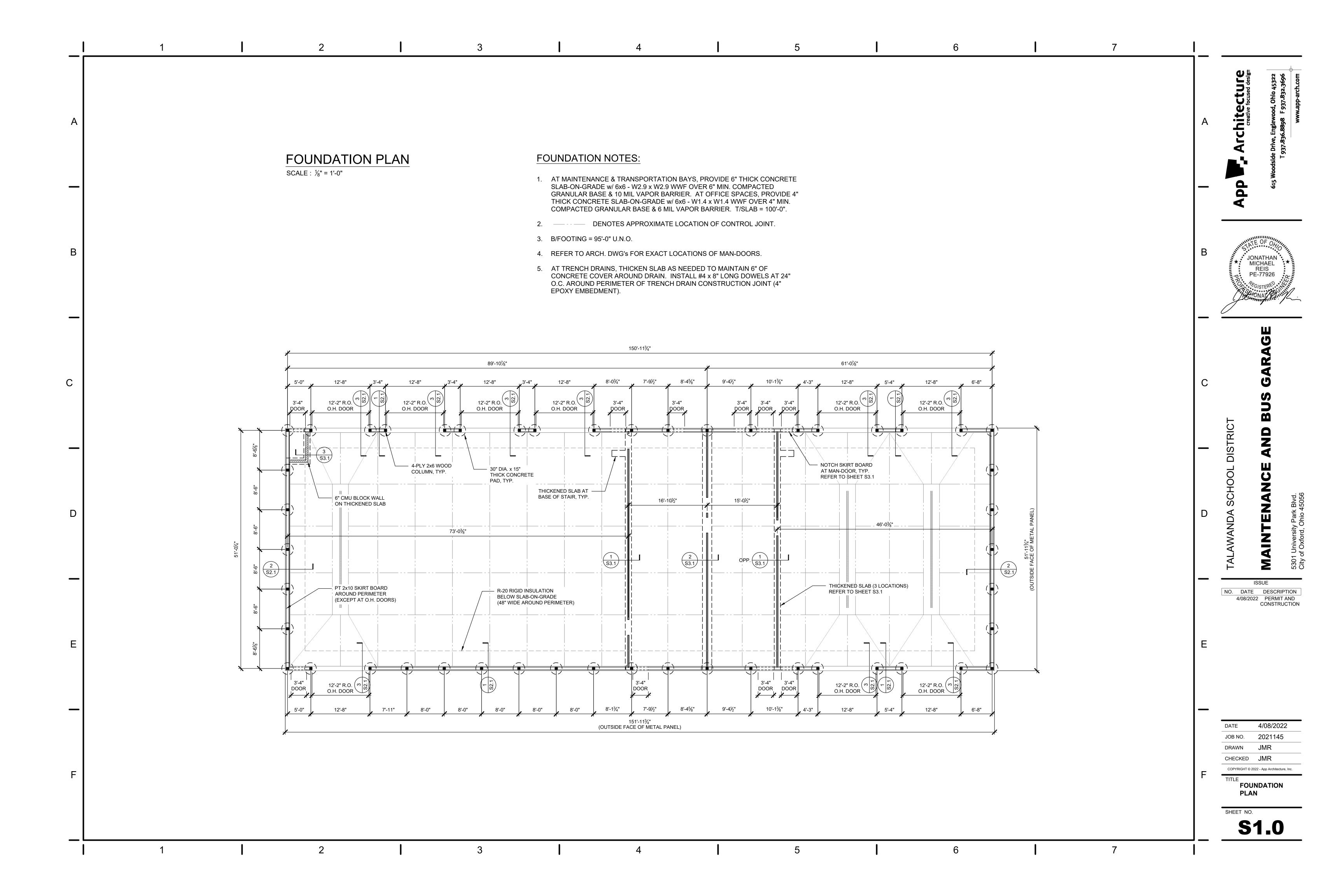


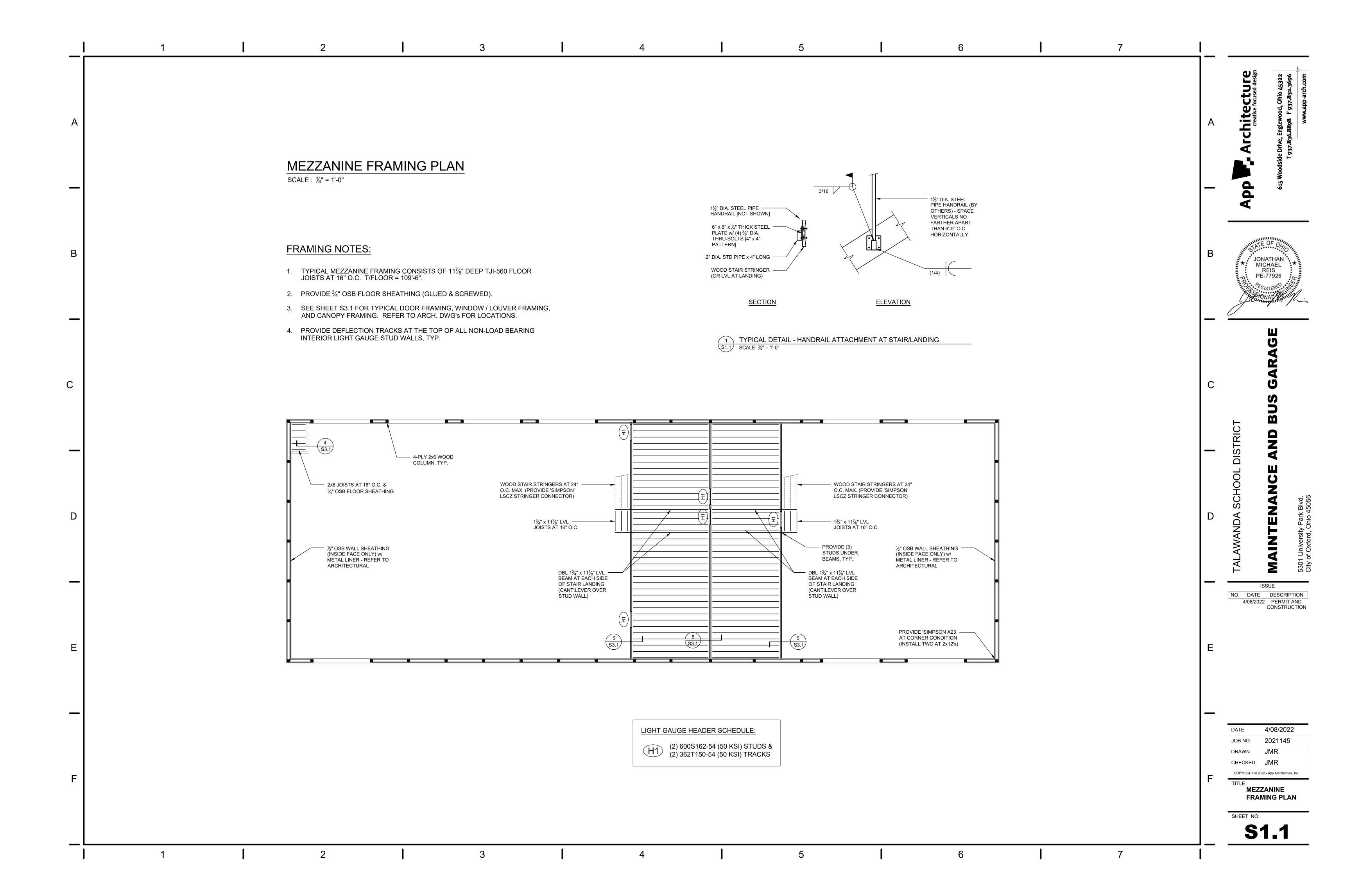


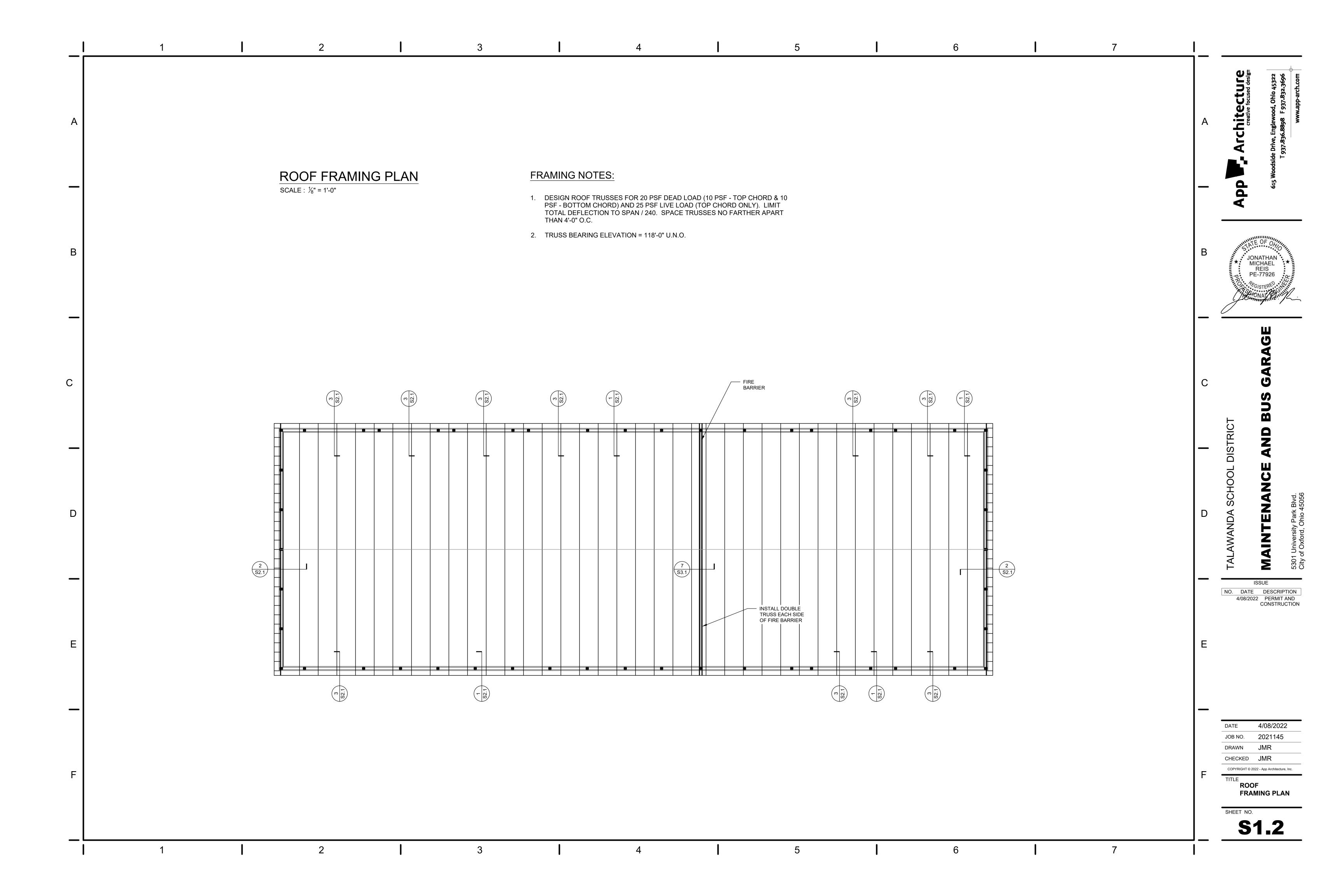
ENEF	ERAL:	SOIL / STRUCTURE INTERACTION & SOIL PREPARATION INFORMATION:	E. REINFORCED CONCRETE:	F. ROUGH CARPENTRY:		
	HE STRUCTURAL ENGINEER OF RECORD IS RESPONSIBLE FOR THE ADEQUACY OF THE 1.	DO NOT BACKFILL WALLS UNTIL CONCRETE HAS ATTAINED FOURTEEN (14) DAY STRENGTH OR LATERAL	1. MATERIALS:	1. FRAMING LUMBER SHALL COMPLY WITH THE LATEST EDITION OF THE "NATIONAL DESIGN		ية ك
STF STF	RUCTURAL DESIGN AS SHOWN IN THE CONTRACT DOCUMENTS WHICH DEPICT THE RUCTURE IN ITS COMPLETED FORM. THE STRUCTURE IS DESIGNED TO BE CAPABLE OF	BRACING IS PROVIDED.	a. SEE SPECIFICATIONS FOR DETAILED REQUIREMENTS RELATED TO THE CONCRETE TO BE USED ON	SPECIFICATION" (NDS), AMERICAN FOREST & PAPER ASSOCIATION / AMERICAN WOOD COUNCIL.		
STF	ITHSTANDING CODE PRESCRIBED DESIGN FORCES AND FULLY STABLE WHEN THE RUCTURE IS FULLY CONSTRUCTED (I.E., FULLY BUILT). IT IS SOLEY THE RESPONSIBILITY	FOUNDATIONS HAVE BEEN DESIGNED ASSUMING AN ALLOWABLE SOIL BEARING PRESSURE OF 1500 POUNDS PER SQUARE FOOT (PSF). SOIL CONDITIONS SHALL BE INSPECTED BY A GEOTECHNICAL	THIS PROJECT.	2. ALL SAWN LUMBER SHALL BE STAMPED WITH THE GRADE WORK OF A CERTIFIED LUMBER GRADING AGENCY. MOISTURE CONTENT SHALL NOT EXCEED 19%. ALL SAWN LUMBER SHALL BE		<b>t</b>
THE	OTHERS TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AS WELL AS TO PROVIDE FOR HE SAFETY OF THE STRUCTURE AND ITS COMPONENTS PARTS DURING ERECTION. THIS INCLUDES HE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS, TIE DOWNS, OR	ENGINEER OR AN APPOINTED REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER PRIOR TO CONCRETE PLACEMENT. THE GEOTECHNICAL ENGINEER (OR REPRESENTATIVE) SHALL BE THE SOLE JUDGE AS TO THE	b. STRUCTURAL CONCRETE OVERVIEW - SEE SPECS FOR SPECIFIC INFO	SPRUCE-PINE-FIR OR SOUTHERN PINE.  3. SAWN LUMBER:		ative in
DE-	E-WATERING WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S  ROPERTY AFTER THE COMPLETION OF THE PROJECT.	SUITABILITY OF THE BEARING MATERIAL.	LOCATION fc (PSI)  FOUNDATIONS AND GRADE BEAMS 3000	SAWIN LUMBER:  SMALLER DIMENSION <4x NOMINAL: NO. 2 & BETTER  SMALLER DIMENSION >4x NOMINAL: NO. 1 & BETTER	Α	
	D.  IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY	DESIGN LOADS:	TYP. INTERIOR CONCRETE 4000	4. WOOD STRUCTURAL PANELS: ALL PANELS SHALL CONFORM TO NER-108 AND BEAR THE STAMP OF		2
	DDES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.  1.	CODE REFERENCES:	EXTERIOR CONCRETE EXPOSED 4500, 6% AIR	THE APA OR AN APPROVED GRADING AGENCY WITH THE FOLLOWING SPAN RATINGS:  WALLS: ½" NOMINAL THICKNESS (15/32" MIN.) - 32/16, SHEATHING		4
	L ELEVATIONS GIVEN ON THE STRUCTURAL DRAWINGS ARE BASED ON THE GROUND. OOR DATUM OF 100'-0" (U.N.O.).	a. OHIO BUILDING CODE (OBC) - 2017 b. ASCE 7-16, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES	TO DE-ICING	NAILS: 8d COMMON @ 6" O.C EDGES (UNO)  8d COMMON @ 12" O.C FIELD (UNO)		
	HOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THE	c. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY, ACI 318 - 2017	BACKFILL BELOW FOOTINGS, 1500 CONCRETE FILL IN STRUCTURES	ROOF: 5/8" NOMINAL THICKNESS (19/32" MIN.) - 40/20, SHEATHING NAILS: 8d COMMON @ 6" O.C EDGES (UNO)		
ASS	ENERAL STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, IT SHALL BE SSUMED THAT THE STRICTEST PROVISION SHALL GOVERN AND A WRITTEN REQUEST FOR	<ul> <li>d. BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES AND SPECIFICATIONS FOR MASONRY STRUCTURES AND COMMENTARIES, ACI 530 - 2016</li> </ul>	c. ALL DEFORMED REINFORCING BARS: FY = 60,000 P.S.I.	8d COMMON @ 12" O.C FIELD (UNO) FLOOR: ¾" NOMINAL THICKNESS ( <sup>23</sup> ⁄ <sub>32</sub> " MIN.) - 24" O.C. T&G STURD-I-FLOOR OR 48/24, T&G,	<del>-</del>	<u> </u>
THE	FORMATION (RFI) SHALL BE SUBMITTED TO THE A/E. ADDITIONALLY, ALL ITEMS WHICH, IN HE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, OR	e. COLD-FORMED STEEL DESIGN MANUAL, AISI - 2017 f. SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AISI - 2017	d. WELDED WIRE FABRIC: ASTM A185	SHEATHING GLUE & NAIL: 10d COMMON @ 6" O.C EDGES (UNO)		4
ΑТΊ	MBIGUITIES IN THE PLANS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE IMMEDIATE ITENTION OF THE A/E. CONTRACTOR SHALL SUBMIT RFI PRIOR TO COMMENCING WITH AFFECTED	g. CATALOG OF STANDARD SPECIFICATIONS AND LOAD TABLES FOR STEEL JOISTS AND JOIST GIRDERS, STEEL JOIST INSTITUTE - 2017	2. FIELD MANUAL:	10d COMMON @ 10" O.C FIELD (UNO) PROVIDE BLOCKING AT WALL PANEL EDGES AND AS DESIGNATED ON THESE DRAWINGS.		
	ORK AND SHALL AWAIT THE A/E'S APPROVAL-TO-PROCEED PRIOR TO PERFORMING WORK.  RUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH THE OTHER DRAWINGS RELEASED	h. STEEL DECK INSTITUTE FLOOR DECK DESIGN MANUAL, 1st EDITION - MARCH 2014 i. STEEL DECK INSTITUTE ROOF DECK DESIGN MANUAL, 1st EDITION - MAY 2013	PROVIDE AT LEAST ONE COPY OF THE LATEST ACI FIELD REFERENCE MANUAL, SP-15, IN THE FIELD OFFICE	5. FRAMING ANCHORS: "SIMPSON" OR APPROVED EQUAL. INSTALL AS PER MANUFACTURER'S		
FOF	DRIVINGS ARE INTENDED TO BE USED WITH THE OTHER DRAWINGS RELEASED  OR THE PROJECT. CONTRACTOR TO COORDINATE, TO THE EXTENT POSSIBLE, SUCH  TERRELATIONSHIPS IN PROJECT SHOP DRAWINGS AND FIELD WORK.	j. STEEL DECK INSTITUTE DIAPHRAGM DESIGN MANUAL, 4th EDITION - SEPTEMBER 2015 k. STEEL DECK INSTITUTE MANUAL OF CONSTRUCTION WITH STEEL DECK - OCTOBER 2016	AT ALL TIMES.  3. CONTINGENCIES:	RECOMMENDATIONS.		, min
	O NOT SCALE THESE DRAWINGS, USE DIMENSIONAL DATA PROVIDED.	I. STEEL DECK INSTITUTE STANDARD PRACTICE DETAILS - MAY 2001	PROVIDE LEAN CONCRETE UNDER FOUNDATIONS FOR ACCIDENTAL OVER-EXCAVATION, SOFT SPOTS AND	6. FOR NAILING NOT SHOWN ON THESE DRAWINGS, USE IBC NAILING SCHEDULE, TABLE 2304.9.1.	B	Junie A
	EFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIRE RATING REQUIREMENTS,	m. MANUAL OF STEEL CONSTRUCTION - AISC, 15th EDITION - 2017 n. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OF A490 BOLTS - 01 AUGUST 2014	TRENCHES.	7. STRUCTURAL MEMBERS SHALL NOT BE CUT FOR PIPES, DUCTS, ETC., UNLESS SPECIFICALLY NOTED, DETAILED OR APPROVED IN WRITING BY THE ENGINEER.		* · N
	RE-PROOFING METHODS, AND FIRE-PROOFING MATERIALS FOR STRUCTURAL MEMBERS.	o. STRUCTURAL WELDING CODE - STEEL, ANSI/AWS D1.1 - 2015 p. FEMA 405 - NEHRP RECOMMENDED PROVISIONS FOR SEISMIC REGULATIONS FOR NEW BLDGS AND	4. FOOTINGS, PIERS, WALLS AND SLABS:	8. ALL EXPOSED MEMBERS OR MEMBERS IN CONTACT WITH CONCRETE SHALL BE PRESERVATIVE-TREATED WOOD STAMPED BY AN APPROVED AGENCY.		-Q. F
LEC	GATED DESIGN / DEFERRED SUBMITTALS:	OTHER STRUCTURES - 2015	a. DOWELS IN FOOTINGS TO MATCH VERTICAL PIER OR WALL REINFORCING, U.N.O.	9. ALL STEEL, FASTENERS, AND CONNECTORS IN CONTACT WITH WOOD THAT HAS ACQ FORMULATION		70, A
CAL	ELEGATED DESIGN AND DEFERRED SUBMITTALS ARE ITEMS DESIGNED BY OTHERS. SHOP DRAWINGS AND ALCULATIONS SHALL BE GENERATED FOR THE DESIGN AND FABRICATION OF ALL DELEGATED DESIGN AND	DEAD LOADS:	b. PROVIDE CORNER BARS AT WALL AND FOOTING CORNERS TO MATCH HORIZONTAL REINFORCING, MINIMUM LENGTH OF EACH LEG - 45 BAR DIAMETERS. (PLACE AS PER DETAILS	PRESERVATIVE TREATMENT WITHOUT AMMONIA SHALL BE GALVANIZED (G185) PER ASTM A653 AND ASTM A153 OR TYPE 316L STAINLESS STEEL. ALL STEEL, FASTENERS, AND CONNECTORS IN		
NE	FERRED SUBMITTALS ITEMS INDICATED BELOW. THESE DRAWINGS AND CALCULATIONS SHALL BE SEALED NO SIGNED BY A PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS TO BE CONSTRUCTED. FOR	ROOF DEAD LOAD 20 PSF (10 PSF TOP CHORD / 10 PSF BOTTOM CHORD)	U.N.O.).	CONTACT WITH WOOD THAT HAS ACQ FORMULATION PRESERVATIVE TREATMENT WITH AMMONIA SHALL BE TYPE 316L STAINLESS STEEL.		
AND	EMS INDICATED AS "DESIGNED BY THE CONTRACTOR", "DESIGNED BY SUPPLIER", "DESIGNED BY FABRICATOR"  ND "DESIGNED BY INSTALLER", IF THESE ENTITIES ARE NOT PROVIDING THEIR OWN ENGINEERING WITH THEIR  SCIONS COMPLETED BY A PROCESSIONAL ENGINEER WHO WILL SEAL AND SIGN THEIR SUPPLIFY STHEN THESE	FLOOR DEAD LOAD 20 PSF	c. PROVIDE 10 MIL. POLYETHYLENE VAPOR RETARDER AND 6" COMPACTED AGGREGATE SUBBASE MATERIAL ON TOP IN ACCORDANCE WITH THE TYPICAL SLAB DETAILS. UNDER ALL	10. ALL NON-BEARING WALLS BELOW FRAMING SHALL BE SLIP CONNECTED TO ALLOW FOR POTENTIAL		
ENT	SIGNS COMPLETED BY A PROFESSIONAL ENGINEER WHO WILL SEAL AND SIGN THEIR SUBMITTALS THEN THESE ITITIES WILL INDEPENDENTLY CONTRACT A THIRD PARTY TO PROVIDE THIS SERVICE ON THEIR BEHALF. UNLESS PECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS. DELEGATED DESIGN ITEMS SHALL BE DESIGNED FOR ALL	LIVE LOADS:	INTERIOR SLABS ON GRADE, VAPOR RETARDER SHALL BE CARRIED TO AND PLACED IN CONTACT W/RIGID INSULATION AT INTERIOR FACE OF EXTERIOR FOUNDATION WALLS. SEE	FRAMING DEFLECTION AND UPLIFT.		
COE	DOE DEFINED LOADS PLUS INDUSTRY STANDARD LOADS INCLUDING GRAVITY LOADS AND LATERAL LOADS DUE TO INDUSTRY STANDARD FOR ALL INDUSTRY STANDARD LOADS INCLUDING GRAVITY LOADS AND LATERAL LOADS DUE TO IND AND SEISMIC. SEE THE RELEVANT SECTIONS OF THE GENERAL NOTES SHEETS FOR ADDITIONAL DESIGN	ROOF LIVE LOAD: MINIMUM DESIGN ROOF LIVE LOAD 20 PSF		G. PROPRIETARY PRODUCTS:		
REC	EQUIREMENTS. CALCULATIONS SHALL INCLUDE REVIEW OF THE CAPACITIES OF ALL SUPPORTING STRUCTURAL EMENTS INCLUDING LOCAL STRESSES DUE TO THE CONNECTION METHODS SELECTED. ADDITIONALLY, THE	FLOOR LIVE LOAD: GARAGE SPACES 250 PSF	5. CONSTRUCTION JOINTS:	1. ENGINEERED WOOD MATERIALS SHALL CONFORM TO THE FOLLOWING:		
ИP	ALCULATIONS AND DRAWINGS SHALL CLEARLY INDICATE THE MAGNITUDES AND DIRECTIONS OF THE LOADS PARTED ON THE SUPPORTING STRUCTURAL ELEMENTS. THE LOADING CRITERIA USED FOR DESIGN OF THE ELECATED DESIGN SYSTEMS AND COMPONENTS SHALL BE CLEARLY INDICATED ON THE DRAWINGS AND	LIGHT STORAGE AREAS (MEZZANINE) 125 PSF	CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER. ALL CONSTRUCTION JOINTS ARE TO BE KEYED.	a. LAMINATED VENEER LUMBER (LVL) - Fb = 2600 PSI, E = 1.9 x 10^6 PSI, Fv = 285 PSI MINIMUM. PARALLEL STRAND LUMBER (PSL) MAY BE SUBSTITUTED FOR LVL PRODUCTS WITH EQUIVALENT SIZES AS LONG		
ΑL	ELEGATED DESIGN SYSTEMS AND COMPONENTS SHALL BE CLEARLY INDICATED ON THE DRAWINGS AND ALCULATIONS, REGARDLESS OF WHETHER THEY ARE MANDATED BY THE ENGINEER OF RECORD BY WAY OF THE RAWING AND SPECIFICATIONS OR DERIVED BY THE DESIGNER.	SNOW LOAD PARAMETERS:	6. CHAMFER:	AS ABOVE MINIMUM PROPERTIES ARE MAINTAINED.	С	
	MPORARY SHORING:	a. GROUND SNOW LOAD, Pg 20 PSF b. FLAT-ROOF SNOW LOAD, Pf 14 PSF	PROVIDE 3/4" CHAMFER AT ALL EXPOSED EDGES OF CONCRETE, U.N.O.	b. LAMINATED STRAND LUMBER (LSL):  BEAM, STUD, JOIST (1.55E): Fb =2325 PSI, E = 1.55 x 10^6 PSI, Fv = 310 PSI MINIMUM. LVL OR PSL		
Dι	DUNDATIONS - SHEET PILING, PILES AND LAGGING REQUIRED FOR INSTALLATION OF FOUNDATIONS AND DUNDATIONS AND DUNDATION WALLS SHALL BE DESIGNED BY THE CONTRACTOR. EXCAVATIONS REQUIRED FOR	c. THERMAL FACTOR, Ct 1.0 d. EXPOSURE FACTOR, Ce 1.0	7. MISCELLANEOUS:	MAY NOT BE SUBSTITUTED FOR LSL PRODUCTS, UNLESS APPROVED IN WRITING BY THE ENGINEER.  RIM BOARD (1.3E): Fb = 1700 PSI, E = 1.3 x 10 <sup>6</sup> PSI, Fv = 400 PSI MINIMUM. LVL OR PSL MAY NOT		
Oι	DUNDATION WALLS SHALL BE DESIGNED BY THE CONTRACTOR. EXCAVATIONS REQUIRED FOR DUNDATION AND FOUNDATION WALL CONSTRUCTION NEXT TO EXISTING BUILDINGS, NEAR PROPERTY NES AND NEAR OR OVER UTILITIES MUST BE CONSIDERED BY THE CONTRACTOR IN EVALUATING SHORING	e. SNOW LOAD IMPORTANCE FACTOR, I 1.0	a. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR OPENINGS AND COORDINATE WORK WITH THE CONSTRUCTION MANAGER AND OTHER TRADES. IF OPENING IS NOT	BE SUBSTITUTED FOR LSL PRODUCTS, UNLESS APPROVED IN WRITING BY THE ENGINEER.		$\vdash$
	EQUIREMENTS.	WIND DESIGN PARAMETERS:	SHOWN ON THE STRUCTURAL DRAWINGS, OBTAIN PRIOR APPROVAL.	2. MULTIPLE PLIES OF MATERIAL MAY BE USED TO ACHIEVE THE TOTAL WIDTH INDICATED ON DRAWINGS. PLIES MUST BE JOINED TO FORM A SINGLE MEMBER AS REQUIRED BY THE		310
	ECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION COMPONENTS: DOF-TOP UNITS - DESIGN OF THE MECHANICAL UNIT CURB, CONNECTIONS OF THE UNIT TO THE CURB AND	a. BASIC WIND SPEED = 115 MPH b. WIND EXPOSURE = EXPOSURE C	8. CONCRETE COVER:	MANUFACTURER OR AS DETAILED.	_	ST
OO ADE	DNNECTIONS OF THE CURB TO STRUCTURE SHALL BE PROVIDED BY THE MECHANICAL UNIT CONTRACTOR.  DDITIONAL SUPPORT FRAMING FOR SUPPORTING THE GRAVITY AND LATERAL LOADS SHALL BE DESIGNED,	c. MAIN WIND DESIGN VELOCITY PRESSURES:	U.N.O. DETAIL REINFORCING TO PROVIDE MINIMUM CONCRETE COVER AS FOLLOWS:			
ENG FRA	IGINEERED AND PROVIDED IF IT IS NOT INDICATED ON THE STRUCTURAL DRAWINGS. IF ADDITIONAL SUPPORT AMING IS PROVIDED, THE STRUCTURAL ADEQUACY SHALL BE VERIFIED FOR ALL ASCE 7-16 LOAD COMBINATIONS.	<u>WINDWARD</u> <u>LEEWARD</u> <u>HEIGHT (FT.)</u> <u>WALL</u> <u>WALL</u> <u>SIDEWALLS</u>	CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 IN.			)L
NDI	HOPS DRAWINGS AND CALCULATIONS PROVIDED BY THE MECHANICAL CONTRACTOR SHALL PROVIDE DETAILS DICATING THESE CONNECTIONS. SUPPORT AND BRACING OF DUCTWORK, PIPING, CONDUIT AND CABLE TRAYS SOCIATED WITH MECHANICAL. ELECTRICAL. PLUMBING AND FIRE PROTECTION COMPONENTS SHALL BE	0-15 22.0 PSF -17.8 PSF / -10.3 PSF -22.8 PSF 15-20 22.9 PSF -17.8 PSF / -10.3 PSF -22.8 PSF	CONCRETE EXPOSED TO EARTH OR WEATHER:  No. 6 - No. No. 18 BARS  2 IN.			<u>ŏ</u>
PRC	ROVIDED BY THE CONTRACTOR INSTALLING THE COMPONENTS. FOR PROJECTS IN SEISMIC DESIGN CATEGORY C,  AND HIGHER, SEISMIC BRACING OF ALL MECHANICAL AND ELECTRICAL COMPONENTS REQUIRED BY THE ASCE	15-20 22.9 PSF -17.8 PSF / -10.3 PSF -22.8 PSF 20-25 23.7 PSF -17.8 PSF / -10.3 PSF -22.8 PSF	No. 5 BAR, W31 OR D31 WIRE, AND SMALLER  1½ IN.			$\dot{\Box}$
7-16	16 SHALL BE DESIGNED BY THE MECHANICAL CONTRACTOR AND CLEARLY INDICATED AND DETAILED ON THE HOP DRAWINGS.	COMPONENT AND CLADDING - WALLS	CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, AND JOISTS:		_	S
STA	'AIRS:	AREA (SQ. FT.) INERIOR ZONE EDGE ZONE 10 30.8 PSF 37.9 PSF	No. 14 AND No. 18 BARS 1½ IN. No. 11 BARS AND SMALLER ¾ IN.		ا ا	<u>/O</u>
STA	L INTERIOR AND EXTERIOR STAIRS AND LANDINGS SHALL BE DESIGNED AND ENGINEERED BY THE TAIR FABRICATOR. CONNECTIONS TO STRUCTURE SHALL BE DESIGNED BY THE STAIR FABRICATOR AND	100 26.6 PSF 29.4 PSF 200 25.4 PSF 27.0 PSF	BEAMS AND COLUMNS: PRIMARY REINFORCEMENT, STIRRUPS, TIES AND SPIRALS  1½ IN.			Ä
ND	EARLY INDICATED AND COMMUNICATED TO THE ENGINEER OF RECORD PRIOR TO FABRICATION.UNLESS DICATED ON THE DRAWINGS, ADDITIONAL FOUNDATIONS REQUIRED FOR STAIR SUPPORT SHALL BE	500 23.7 PSF 23.7 PSF	SURFACES EXPOSED TO LIQUIDS: 2 IN.			$\searrow$
DE	SIGNED THE FABRICATOR. IF A FOUNDATION IS INDICATED ON THE STRUCTURAL DRAWINGS, THE DEQUACY OF THE FOUNDATION SHALL BE VERIFIED FOR THE LOADS RESULTING FROM THE STAIR BARRICATOR SHALL OF FARLY INDICATE THE LOCATION OF THESE	SEISMIC DESIGN PARAMETERS:	SLABS ON GRADE - 1/3 SLAB THICKNESS FROM TOP OF SLAB OR AS SHOWN ON DRAWINGS			7
	BRICATORS DESIGN. THE STAIR FABRICATOR SHALL CLEARLY INDICATE THE LOCATION OF THESE DUNDATIONS AND THEIR INTERRELATIONSHIP WITH FOUNDATION OF THE PRIMARY STRUCTURE.	a. OCCUPANCY CATEGORY II b. SITE CLASS D	TENCIONII AD COUEDUI E.			ř
	IPPORTS FOR INTERIOR FINISHES AND ACCOUTERMENTS: TERIOR PARTITIONS, SOFFITS AND STOREFRONT SYSTEMS NOT PART OF THE MAIN BUILDING	c. IMPORTANCE FACTOR 1.0 d. SEISMIC DESIGN CATEGORY: B	TENSION LAP SCHEDULE: fc = 3000 PSI TENSION LAP SPLICE LENGTHS (INCHES) - TOP BARS (NOTES 1 AND 2)		-	
SHE	TERIOR PARTITIONS, SOFFITS AND STOREFRONT SYSTEMS NOT PART OF THE MAIN BUILDING  HELL SHALL BE DESIGNED BY THE SUPPLIER. SUPPORTS AND CONNECTION TO STRUCTURE REQUIRED FOR  RTWORK, SPECIALTY LIGHTING SYSTEMS, MONITORS, VIDEO EQUIPMENT AND PROJECTION SCREENS,	e. RESPONSE MODIFICATION COEFFICIENT, R 1½ f. 0.2 SECOND MAPPED SPECTRAL ACCELERATION, Ss 16.0%	BAR COVER (INCHES)     3/4     1 1/2     3       BAR SPACING (INCHES)     2 1/2     4     >=6     2 1/2     4     >=6     2 1/2     4     >=6			NO. DAT
	ELEVISIONS AND ANY OTHER MISCELLANEOUS ITEMS SHALL BE PROVIDED BY THE SUPPLIER.	g. 1.0 SECOND MAPPED SPECTRAL ACCELERATION, S1 7.0% h. 0.2 SECOND MAXIMUM SPECTRAL RESPONSE, Sms 25.6% i. 1.0 SECOND MAXIMUM SPECTRAL RESPONSE, Sm1 16.8%	#4 29 29 29 29 29 29 29 29 29 29 29 45 36 36 36 36 36 36 36 36			4/00/2
	INDOWS, STOREFRONTS, GLAZING AND CURTAIN WALL SYSTEMS: LEXTERIOR AND INTERIOR GLAZING SYSTEMS AND THEIR CONNECTIONS TO STRUCTURE SHALL BE	<ul> <li>i. 1.0 SECOND MAXIMUM SPECTRAL RESPONSE, Sm1</li> <li>j. 0.2 SECOND DESIGN SPECTRAL RESPONSE, Sds</li> <li>k. 1.0 SECOND DESIGN SPECTRAL RESPONSE, Sd1</li> <li>11.2%</li> </ul>	#6 43 43 43 43 43 43 43 43 43 43 43 43 43			
ES	IL EXTERIOR AND INTERIOR GLAZING SYSTEMS AND THEIR CONNECTIONS TO STRUCTURE SHALL BE SIGNED BY THE SUPPLIER. CONNECTION LOCATIONS SHALL BE CLEARLY INDICATED AND COORDINATED ITH ARCHITECTURAL AND STRUCTURAL DETAILS.	I. SEISMIC RESPONSE COEFFICIENT, Cs 8.55%	#8 86 72 72 86 72 72			
	JE TO MOVEMENT OF THE STRUCTURAL FRAMING SYSTEMS FROM LATERAL WIND AND SEISMIC FORCES, THE	m. DEFLECTION AMPLIFICATION FACTOR, Cd 1½ n. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE e. SEISMIC FORCE-RESISTING SYSTEM: TIMBER FRAMES	#9 109 81 81 109 81 81		lΕ	
GLA	AZING SYSTEM MUST BE DESIGNED TO ACCOMMODATE 3/4" HORIZONTAL STORY DRIFT IN EACH DIRECTION AT CHECH STORY DRIFT IN EACH DIRECTION AT CHECH STORY LEVEL. THE DESIGN STORY DRIFT IS THE DIFFERENCE IN LATERAL DISPLACEMENT OF THE TOP OF	P. SEISMIC BASE SHEAR: V = Cs x WEIGHT	fc = 4000 PSI TENSION LAP SPLICE LENGTHS (INCHES) - TOP BARS (NOTES 1 AND 2)			
	THE DESIGN STORY DRIFT IS THE DIFFERENCE IN LATERAL DISPLACEMENT OF THE TOP OF THE STORY UNDER CONSIDERATION RELATIVE TO THE BOTTOM OF THAT STORY (TOP OF THE STORY BELOW).	SCHEDULE OF SPECIAL INSPECTION SERVICES PER CHAPTER 17 OF INTERNATIONAL BUILDING CODE. SEE SECTION 1704.3 "CONTRACTOR RESPONSIBILITY"	BAR COVER (INCHES)       3/4       1 1/2       3         BAR SPACING (INCHES)       2 1/2       4       >=6       2 1/2       4       >=6			
	HE CONNECTIONS OF THE GLAZING SYSTEM TO STRUCTURE CAN BE DESIGNED FOR THIS RELATIVE HORIZONTAL		#4     25     25     25     25     25     25     25     25     25       #5     31     31     31     31     31     31     31     31     31			
HE	DVEMENT. THE CONNECTIONS SHALL BE DESIGNED FOR ¾" HORIZONTAL (IN-PLANE) MOVEMENT IN ADDITION TO IE VERTICAL DEFLECTION REQUIREMENTS AS NOTED IN THE PLANS, DETAILS AND SPECIFICATIONS. IF THE DNNECTIONS ARE NOT DESIGNED FOR THE LATERAL MOVEMENT, THE GLAZING SYSTEM SHALL BE DESIGNED TO		#6 37 37 37 37 37 37 37 37 37 37 37 37 47 60 60 60 57 54 54 57 54 54			
C	CCOMMODATE %" HORIZONTAL STORY DRIFT IN EACH DIRECTION AT EACH STORY LEVEL TO ACCOUNT FOR FERRENTIAL DISPLACEMENTS FROM LOAD REVERSALS IN THE STRUCTURAL SYSTEMS.		#8 74 62 62 74 62 62 #9 94 70 70 94 70 70		_	
	AILING AND GUARDRAILS:		NOTES:			
HE	IE INTERIOR AND EXTERIOR RAILING AND GUARDRAILS SHALL BE DESIGN BY THE FABRICATOR. UNLESS PECIFICALLY DETAILED ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS, THE FABRICATOR SHALL		1. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.			DATE
ES	SIGN THE CONNECTIONS TO STRUCTURE AND VERIFY THE CAPACITY OF THE RECEIVING STRUCTURAL EMENTS FOR LOADS DUE TO THEIR CONNECTIONS.		2. FOR BARS OTHER THAN TOP BARS, DIVIDE DEVELOPMENT LENGTH SPECIFIED IN TABLE BY 1.3. 3. INTERPOLATE FOR SPLICE LENGTHS AS NECESSARY			JOB NO.
			4. TENSION LAP SPLICES ARE BASED ON CLASS B. FOR CLASS A, DIVIDE BY 1.3. UNLESS NOTED OTHERWISE			DRAWN  CHECKED
			IN DRAWINGS, ASSUME ALL SPLICES AS CLASS B.  5. IF SPLICE DIMENSION IS INDICATED IN DRAWINGS, PROVIDE LARGER SPLICE LENGTH.		_	COPYRIGHT
			<ol> <li>LAP SPLICE TABLES ARE BASED ON ACI 318-02, SECTIONS 12.2.2, 12.2.3 &amp; 12.14.2</li> <li>VALUES SHOWN IN TABLE MAY BE LOWERED WITH Ktr IF TRANSVERSE REINFORCEMENT EXISTS PER</li> </ol>		F	TITLE
			12.2.3.			GE NO
						SHEET NO
						S
					<b>_</b>	

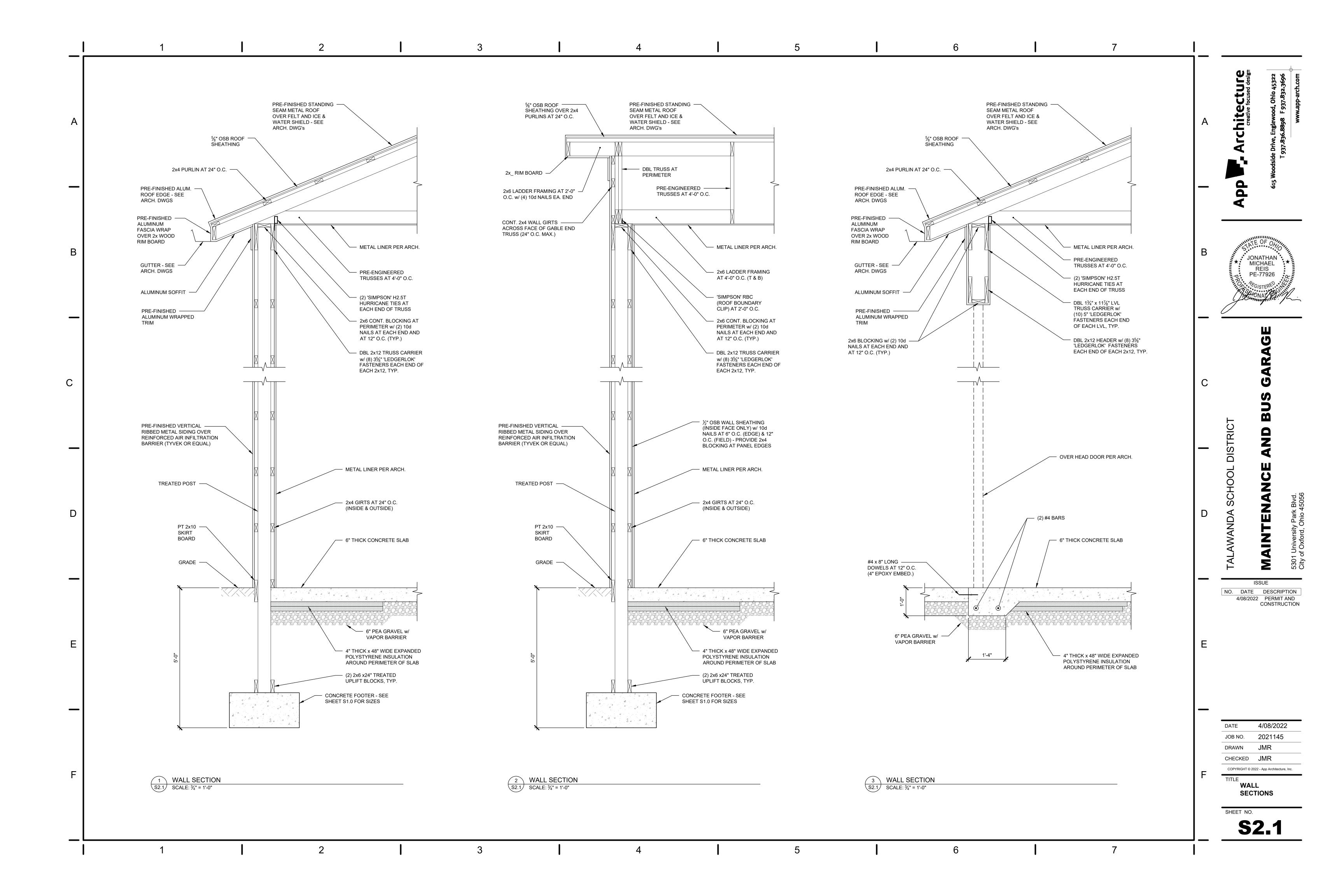
TABLE 1705.3 REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION TABLE 1705.6 REQUIRED VERIFICATION AND INSPECTION OF SOILS A/E - ARCHITECT/ENGINEER ID - INSIDE DIAMETER SCHED - SCHEDULE AB - ANCHOR BOLT/ROD INCL - INCLUDING SECT - SECTION VERIFICATION AND INSPECTION CONTINUOUS PERIODIC VERIFICATION AND INSPECTION TASK CONTINUOUS PERIODIC REFERENCE STANDARD AFF - ABOVE FINISH FLOOR SHT - SHEET INT - INTERIOR ARCH. - ARCHITECT (URAL) SHTHG - SHEATHING . INSPECTION OF REINFORCING STEEL, INCLUDING . VERIFY MATERIALS BELOW FOOTINGS ARE ACI 318: 3.5, 7.1-7.7 JST - JOIST SIM - SIMILAR 1913.4 PRESTRESSING TENDONS, AND PLACEMENT. ADEQUATE TO ACHIEVE THE DESIGN BEARING BFF - BELOW FINISH FLOOR JT - JOINT SL - SNOW LOAD CAPACITY. BLK - BLOCK (ING) SLV - SLEEVE 2. INSPECTION OF REINFORCING STEEL WELDING IN AWS D1.4 K - KIPS (1000 lbs.) BM - BEAM SOG - SLAB-ON-GRADE ACCORDANCE WITH TABLE 1704.3, ITEM 5B. ACI 318: 3.5.2 2. VERIFY EXCAVATIONS ARE EXTENDED TO BRG - BEARING KCJ - KEYED CONSTRUCTION SPEC - SPECIFICATION PROPER DEPTH AND HAVE REACHED PROPER BU - BUILT UP SQ - SQUARE 3. INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR MATERIAL. B/ - BOTTOM OF KLF - KIPS PER LINEAR FOOT SSL - SHORT SLOTTED 1911.5 TO AND DURING PLACEMENT OF CONCRETE WHERE --KSF - KIPS PER SQUARE FOOT SST - STAINLESS STEEL ALLOWABLE LOADS HAVE BEEN INCREASED. CAM (C=) - CAMBER 3. PERFORM CLASSIFICATION AND TESTING OF KSI - KIPS PER SQUARE INCH STD - STANDARD CIP - CAST-IN-PLACE STIF - STIFFENER CONTROLLED FILL MATERIALS. 1904.2.2, 1913.2, ACI 318: Ch. 4, 5.2-5.4 L - ANGLE CJ - CONTROL JOINT 4. VERIFYING USE OF REQUIRED DESIGN MIX. --STL - STEEL 1913.3 CL - CENTERLINE LL - DOUBLE ANGLE SUSP - SUSPENDED 4. VERIFY USE OF PROPER MATERIALS, 5. AT THE TIME FRESH CONCRETE IS SAMPLED TO CLR - CLEAR LBS - POUNDS SW - SHEAR WALL DENSITIES, AND LIFT THICKNESSES DURING ASTM C 172 1913.10 CMU - CONCRETE MASONRY LG - LONG SYMM - SYMMETRICAL FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM PLACEMENT AND COMPACTION OF ASTM C 31 LL - LIVE LOAD SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE CONTROLLED FILL. ACI 318: 5.6, 5.8 T&B - TOP AND BOTTOM COL - COLUMN LLH - LONG LEG HORIZONTAL TEMPERATURE OF THE CONCRETE. CONC - CONCRETE LLV - LONG LEG VERTICAL T&G - TONGUE AND GROOVE 5. PRIOR TO PLACEMENT OF CONTROLLED TBD - TO BE DETERMINED LOC - LOCATION **JONATHAN** CONN - CONNECT (ION) 6. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FILL, OBSERVE SUBGRADE AND VERIFY THAT 1913.6, 1913.7, CONT - CONTINUOUS LONG - LONGITUDINAL MICHAEL THK - THICK (NESS) ACI 318: 5.9, 5.10 FOR PROPER APPLICATION TECHNIQUES. SITE HAS BEEN PREPARED PROPERLY. 1913.8 CONTR - CONTRACT (OR) LSL - LAMINATED STRAND TL - TOTAL LOAD REIS CTR - CENTER TO - TOP OF PE-77926 7. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING LT WT - LIGHT WEIGHT TOB - TOP OF BEAM CU - CUBIC ACI 318: 5.11, 5.13 1913.9 TEMPERATURE AND TECHNIQUES. TOC - TOP OF CONCRETE LVL - LAMINATED VENEER D - DEEP, DEPTH LUMBER TOCW - TOP OF CONCRETE 8. INSPECTION OF PRESTRESSED CONCRETE: DBL - DOUBLE DEMO - DEMOLITION, DEMOLISH MATL - MATERIAL TOF - TOP OF FOOTING A. APPLICATION OF PRESTRESSING FORCES. DET - DETAIL MAX - MAXIMUM TOM - TOP OF MASONRY ACI 318: 18.20 --DIA - DIAMETER MBR - MEMBER TOS - TOP OF STEEL DIAG - DIAGONAL, DIAGRAM MC - MISCELLANEOUS CHANNEL B. GROUTING OF BONDED PRESTRESSING TENDONS TOW - TOP OF WALL ACI 318: 18.18.4 DIM - DIMENSION MECH - MECHANICAL TRANS - TRANSVERSE IN THE SEISMIC-FORCE-RESISTING SYSTEM. MEZZ - MEZZANINE **DIR - DIRECTION** TYP - TYPICAL DL - DEAD LOAD MFD - MANUFACTURED 9. ERECTION OF PRECAST CONCRETE MEMBERS. ACI 318: Ch. 16 --DR - DRAIN MFR - MANUFACTURER UNO - UNLESS NOTED DWG - DRAWING MIN - MINIMUM OTHERWISE 10. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR MISC - MISCELLANEOUS TO STRESSING OF TENDONS IN POST-TENSIONED EA - EACH MTL - METAL V - SHEAR ACI 318: 6.2 --CONCRETE AND PRIOR TO REMOVAL OF SHORES AND EF - EACH FACE **VERT - VERTICAL** FORMS FROM BEAMS AND STRUCTURAL SLABS. **EJ - EXPANSION JOINT** NA - NOT APPLICABLE VIF - VERIFY IN FIELD EL, ELEV - ELEVATION NIC - NOT IN CONTRACT VR - VAPOR RETARDER 11. INSPECT FORMWORK FOR SHAPE, LOCATION, AND EMBED - EMBEDMENT NO - NUMBER VRFY - VERIFY ACI 318: 6.1.1 --DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED. EQ - EQUAL NOM - NOMINAL NS - NEAR SIDE EST - ESTIMATE W - WIDTH EW - EACH WAY NTS - NOT TO SCALE W/ - WITH **EQUIP - EQUIPMENT** W/O - WITHOUT **EXP - EXPANSION** OC - ON CENTER WD - WOOD EXT - EXTERIOR OD - OUTSIDE DIAMETER WF - WIDE FLANGE OH DR - OVERHEAD DOOR WL - WIND LOAD FD - FLOOR DRAIN OPNG - OPENING WLD - WELD (ED) FF - FINISHED FLOOR OPP - OPPOSITE WP - WATERPROOFING, WORK FIN - FINISH (ED) OSB - ORIENTED STRAND FLG - FLANGE BOARD WS - WATERSTOP FLR - FLOOR (ING) OVS - OVERSIZED WT - WEIGHT <u>လ</u> FOC - FACE OF CONCRETE WWF - WELDED WIRE FABRIC FOM - FACE OF MASONRY PAF - POWDER ACTUATED **FASTENER** FOS - FACE OF STUD YD - YARD SPECIAL INSPECTION PROGRAM NOTES: PCF - POUNDS PER CUBIC FOOT FOW - FACE OF WALL FS - FAR SIDE PL - PLATE 1. PERIODIC INSPECTION FREQUENCY DETERMINED BY THE DESIGN PROFESSIONAL, UNLESS NEEDED OTHERWISE. PLF - POUNDS PER LINEAR FT - FOOT, FEET FTG - FOOTING FRMG - FRAMING PLYWD - PLYWOOD 2. CONTINUOUS OR PERIODIC SELECTION TO BE MADE BY THE DESIGN PROFESSIONAL BASED ON BUILDING CATEGORY AND DESIGN METHODOLOGY. FUT - FUTURE PNL - PANEL PR - PAIR, PIPE RAIL SPECIAL INSPECTION/TESTING PROGRAM GA - GAGE, GAUGE PRCST - PRECAST PREFAB - PREFABRICATED **GALV - GALVANIZED** 1. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL GC - GENERAL CONTRACTOR PSF - POUNDS PER SQUARE FOR THE INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION STIPULATED. GEN - GENERAL PSI - POUNDS PER SQUARE GL - GRADE LINE 2. IF NECESSARY, THE CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION MEETING WITH THE ARCHITECT, ENGINEER, BUILDING OFFICIAL, AND GLU-LAM - GLUE-LAMINATED TESTING AGENCY TO REVIEW THE SPECIAL INSPECTION REQUIREMENTS. PT - POST TENSION (ED), GR BM - GRADE BEAM PRESSURE TREATED 3. DUTIES OF THE SPECIAL INSPECTOR INCLUDE, BUT ARE NOT LIMITED TO: GYP BD - GYPSUM BOARD R - RADIUS A. ACKNOWLEDGE AND CONFORM TO THE SPECIAL INSPECTION REQUIREMENTS OF OBC. RCP - REINFORCED CONCRETE H - HIGH HAS - HEADED ANCHOR STUD PIPE B. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE WITH THE APPROVED PERMIT PLANS AND SPECIFICATIONS. ALL RD - ROOF DRAIN HC - HOLLOW CORE DISCREPANCIES SHALL BE BROUGHT TO IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE HDR - HEADER REF - REFERENCE REINF - REINFORCING ATTENTION OF THE ARCHITECT, THE ENGINEER AND THE BUILDING OFFICIAL. HGR - HANGER ISSUE HORIZ - HORIZONTAL REQ'D - REQUIRED NO. DATE DESCRIPTION HR - HANDRAIL REV - REVISION C. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE CONTRACTOR, THE ARCHITECT, THE ENGINEER 4/08/2022 PERMIT AND HS - HIGH STRENGTH RO - ROUGH OPENING AND THE BUILDING OFFICIAL AS A MINIMUM. THE REPORTS SHALL BE DISTRIBUTED IN A TIMELY MANNER. CONSTRUCTION HSB - HIGH STRENGTH BOLT HSS - HOLLOW STRUCTURAL D. INSPECTION FOR PREFABRICATED COMPONENTS SHALL BE THE SAME AS IF THE MATERIAL WAS INSTALLED ON SITE. CONTINUOUS INSPECTION SHALL NOT BE REQUIRED DURING THE PREFABRICATION IF THE APPROVED AGENCY CERTIFIES THE CONSTRUCTION AND FURNISHES EVIDENCE OF HT - HEIGHT COMPLIANCE. E. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING WHETHER THE WORK REQUIRING INSPECTION WAS INSPECTED AND WHETHER THE WORK WAS COMPLETED IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATION AND IN CONFORMANCE WITH ANY APPLICABLE WORKMANSHIP PROVISIONS OF THE APPLICABLE CODE. 4. SPECIAL INSPECTION AND TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS. STRUCTURAL OBSERVATION: 1. STRUCTURAL OBSERVATION CONFORMING TO THE 2017 OBC SECTION 1710 WILL BE PERFORMED BY AN L2 ENGINEERING REPRESENTATIVE IN ORDER TO REVIEW THE CONTRACTOR'S WORK FOR GENERAL CONFORMANCE WITH THE DESIGN DOCUMENTS. 2. THE CONTRACTOR SHALL PROVIDE L2 ENGINEERING WITH A MINIMUM OF 3 DAYS NOTICE TO PROPERLY SCHEDULE THE OBSERVATION VISIT. 3. IF ADDITIONAL ENGINEERING TIME IS REQUIRED DUE TO INCOMPLETE OR UNACCEPTABLE WORK BY THE CONTRACTOR, L2 ENGINEERING SHALL BE REIMBURSED FOR ALL ASSOCIATED COSTS. 4/08/2022 JOB NO. 4. STRUCTURAL OBSERVATION FOR THIS PROJECT WILL OCCUR AT THE FOLLOWING STAGES: a. DURING CONCRETE PLACEMENT DRAWN JMR 5. STRUCTURAL OBSERVATION OCCURS INDEPENDENT OF THE SPECIAL INSPECTION PROGRAM. CHECKED JMR COPYRIGHT © 2022 - App Architecture, Inc. SPECIAL **INSPECTIONS** 

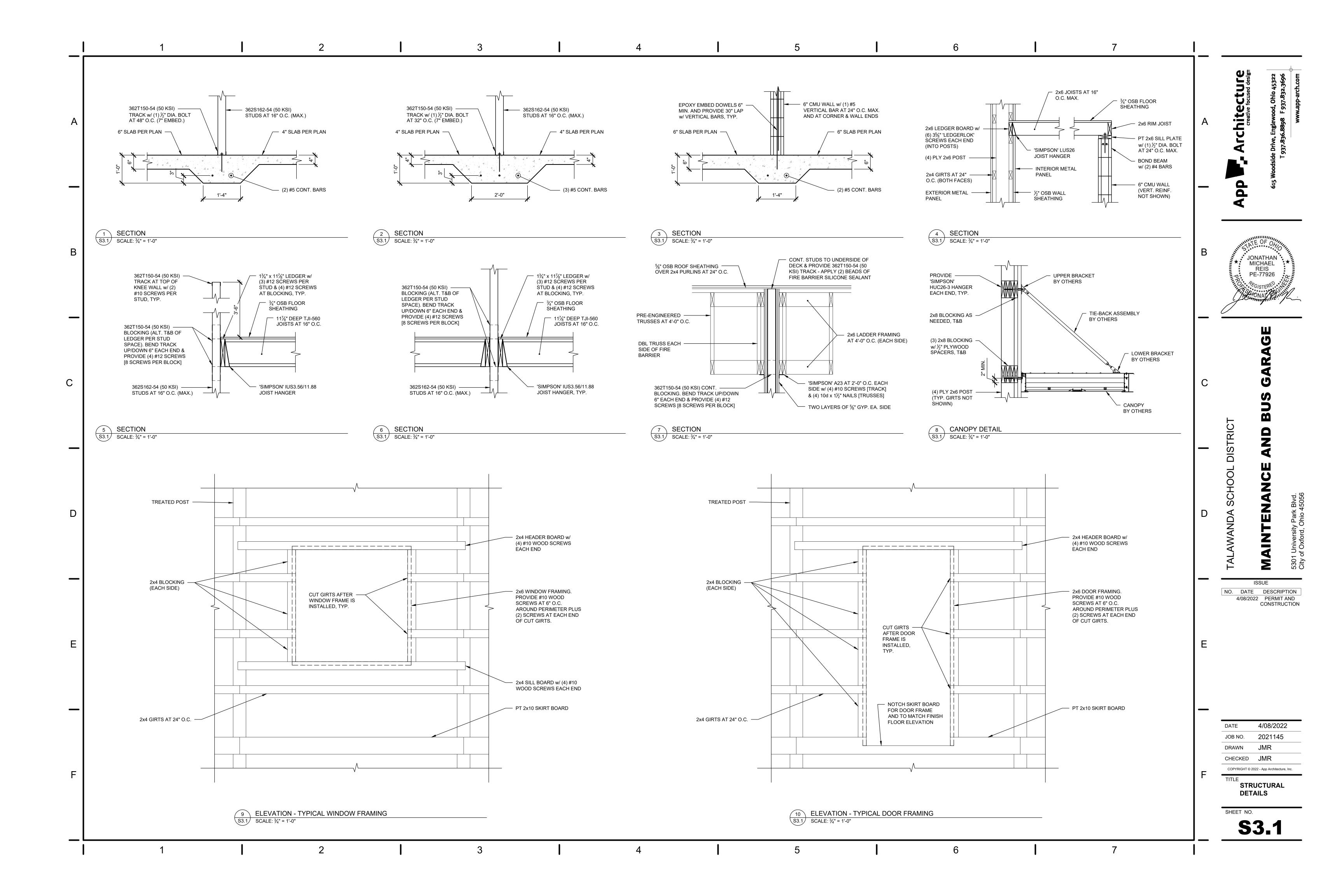
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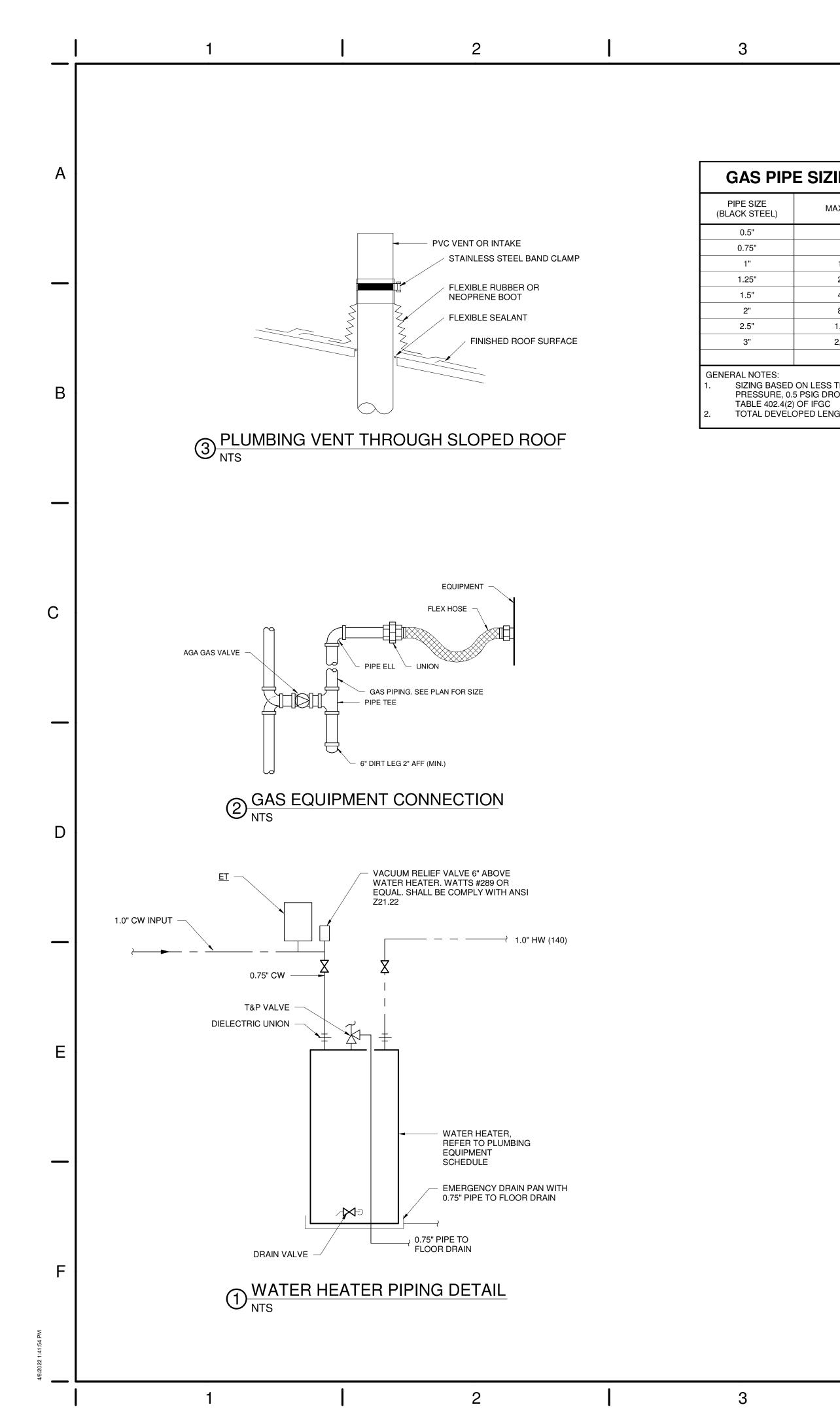






PLUMBING LEGEND AND

P4.1



ING			PLUMBING FIXTURE SO	CHEDULE				
MAX MBH	PLAN MARK	FIXTURE TYPE	DESCRIPTION	LOCATION	SAN.		CW	
37	A1	WATER CLOSET ADA	AMERICAN STANDARD MODEL #3351.101 "AFWALL", WALL MOUNT, ELONGATED BOWL, TOP SPUD, WHITE VITREOUS CHINA; WITH OLSONITE #95 ELONGATED, WHITE, OPEN FRONT, NO COVER SEAT, WITH SELF SUSTAINING HINGE; 481310-100 BOLT CAPS; SLOAN ROYAL #111 MANUAL FLUSH VALVE.	VARIES	4.0"	2.0"	1.00"	MOUNT 17" TO RIM
77 144	A2	WATER CLOSET	AMERICAN STANDARD MODEL #3351.101 "AFWALL", WALL MOUNT, ELONGATED BOWL, TOP SPUD, WHITE VITREOUS CHINA; WITH OLSONITE #95 ELONGATED, WHITE, OPEN FRONT, NO COVER SEAT, WITH SELF SUSTAINING HINGE; 481310-100 BOLT CAPS; SLOAN ROYAL #111 MANUAL FLUSH VALVE.	VARIES	4.0"	2.0"	1.00"	
296 443 854	B1	LAVATORY	AMERICAN STANDARD MODEL #0355.012 "LUCERNE", WALL MOUNT, WHITE VITREOUS CHINA, 4" CENTER FAUCET HOLES; AMERICAN STANDARD MODEL #6114.116.002, "MONTERREY" SINGLE CONTROL CENTERSET FAUCET W/ 4" CENTER, LESS DRAIN; 1/2" SUPPLY AND STOP (TWO REQUIRED); 1-1/2" CAST BRASS	R VARIES	1.5"	1.5"	0.50"	PROVIDE "TRUEBRO" HANDI-LAV GUARD INSTALLATION KIT MODEL #102 (WHITE) OR APPROVED EQUAL. PROVIDE 1070 ASSE MIXING VALVE.
1,360 2,410	B2	LAVATORY	AMERICAN STANDARD MODEL #0476.028 "AQUALYN", DROP IN, WHITE VITREOUS CHINA, 4" CENTER FAUCET HOLES; AMERICAN STANDARD MODEL #6114.116.002, "MONTERREY SINGLE CONTROL CENTERSET FAUCET W/ 4" CENTER, LESS DRAIN; 1/2" SUPPLY AND STOP (TWO REQUIRED); 1-1/2" CAST BRASS P-TRAP.	WOMEN 107	1.5"	1.5"	0.50"	PROVIDE "TRUEBRO" HANDI-LAV GUARD INSTALLATION KIT MODEL #102 (WHITE) OR APPROVED EQUAL. PROVIDE 1070 ASSE MIXING VALVE.
	B3	SINK	ELKAY MODEL #LRD1720SC LUSTERSTONE CLASSIC, 17"x20"x7-5/8" SINGLE BOWL DROP-IN, STAINLESS STEEL, 4" CENTER FAUCET HOLES, LK18B DRAIN INCLUDED; #LK406GN04T4SC FACUET INCLUDED;1/2" SUPPLY AND STOP (TWO REQUIRED); #LK500 P-TRAP INCLUDED	BREAK/TRAINING 105	1.5"	1.5"	0.50"	9.5" PROVIDE 1070 ASSE MIXING VALVE.
THAN 2 PSIG OP PER	C1	URINAL	AMERICAN STANDARD MODEL #6590001EC "WASHBROOK", WHITE VITREOUS CHINA WALL MOUNTED, (LOW FLOW 1.0 GALLON PER FLUSH), SIPHON JET, SLOAN ROYAL #186-1.0 MANUAL FLUSH VALVE.	MEN 106	4.0"	1.5"	0.75"	REFER TO ARCH. DRAWINGS FOR MOUNTING HEIGHT.
GTH = 175 FT.	D1	MOP/UTILITY SINK	MUSTEE PRECAST MODEL #63M (24"x24"x10");T&S BRASS FAUCET MODEL #B-0655-BSTR CHROME PLATED WITH VACCUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT; MUSTEE #65.600 HOSE BRACKET, 30" LONG FLEXIBLE, HEAVY DUTY 5/8" RUBBER HOSE, CLOTH REINFORCED WITH 3/4" BRASS COUPLING AT ONE END.	VARIES	3.0"	1.5"	0.50"	1.5"
	E1	EYE WASH	BRADLEY MODEL #S19224 SERIES WALL-MOUNT HALO EYEWASH	VARIES	1.5"	1.5"	0.50"	9.5" PROVIDE BRADLEY NAVIGATOR \$19-2000 EFX8 EMERGENCY THERMOSTATIC MIXING VALVE.

PLAN MARK  DESCRIPTION  ET-1 EXPANSION TANK - DOMESTIC WATER SYSTEM - WATTS #PLT-12 - 150 PSI RATING  HB-1 WALL MOUNTED HOSE BIB - FREEZELESS, AUTOMATIC DRAIN, VACUUM BREAKER, BRASS FINISH - MINIMAL INSTALL DEPTH, FEED 90° FROM OUTLET  OI-1 OIL INTERCEPTOR - ZURN #Z250H - BELOW SLAB  RPZ-1 REDUCED PRESSURE BACKFLOW PREVENTER - EQUAL TO WATTS SERIES 009		PLUMBING EQUIPMENT SCHEDULE									
HB-1 WALL MOUNTED HOSE BIB - FREEZELESS, AUTOMATIC DRAIN, VACUUM BREAKER, BRASS FINISH - MINIMAL INSTALL DEPTH, FEED 90° FROM OUTLET  HB-2 WOODFORD MODEL #65 SERIES, FREEZELESS, AUTOMATIC DRAIN, VACUUM BREAKER, BRASS FINISH  OI-1 OIL INTERCEPTOR - ZURN #Z250H - BELOW SLAB  4"		DESCRIPTION	COLD WATER	WATER	WATER (14	\Q	NON POTABLE	WASTE	INDIRECT	FLOOR DRAIN	NOTES
HB-2 WOODFORD MODEL #65 SERIES, FREEZELESS, AUTOMATIC DRAIN, VACUUM BREAKER, BRASS FINISH OI-1 OIL INTERCEPTOR - ZURN #Z250H - BELOW SLAB 4"	ET-1	EXPANSION TANK - DOMESTIC WATER SYSTEM - WATTS #PLT-12 - 150 PSI RATING	0.75'								
OI-1 OIL INTERCEPTOR - ZURN #Z250H - BELOW SLAB	HB-1	WALL MOUNTED HOSE BIB - FREEZELESS, AUTOMATIC DRAIN, VACUUM BREAKER, BRASS FINISH - MINIMAL INSTALL DEPTH, FEED 90° FROM OUTLET	0.75'								3
	HB-2	WOODFORD MODEL #65 SERIES, FREEZELESS, AUTOMATIC DRAIN, VACUUM BREAKER, BRASS FINISH	0.75'								1
RPZ-1 REDUCED PRESSURE BACKFLOW PREVENTER - EQUAL TO WATTS SERIES 009	Ol-1	OIL INTERCEPTOR - ZURN #Z250H - BELOW SLAB						4"			1
	RPZ-1	REDUCED PRESSURE BACKFLOW PREVENTER - EQUAL TO WATTS SERIES 009			2.0"						1
WH-1 GAS WATER HEATER - RHEEM MODEL #GPDV50-65 , 50 GALLON, 65 MBH, 59 GPH RECOVERY AT 100°F TEMP RISE	WH-1	GAS WATER HEATER - RHEEM MODEL #GPDV50-65 , 50 GALLON, 65 MBH, 59 GPH RECOVERY AT 100°F TEMP RISE	1.0"		1.0"						2

	APPROVED SUPPLIERS -		TY	PE			ВО	DY		0	UTLE	ΞT		ST	RAI	NER/	GRA	TE			Т	OP F	INIS	Н		AD	DITIO	IANC	_ FE/	TUR	(ES		
PLAN MARK	J.R. SMITH, JOSAM, WATTS, ZURN ZURN CATALOG NO.	FLOOR	ROOF	TRENCH	DECK	CAST IRON	BRASS	HDPE	STAINLESS STEEL	SIZE	BOTTOM	SIDE	SIZE	ADJUSTABLE	FLAT	DOME	RECESSED	FUNNEL	HINGED	1/2 GRATE	NICKEL-BRONZE	CAST IRON	DUCTILE IRON	STAINLESS STEEL	ANCHOR FLANGE	FLASHING CLAMP	DBL. DRAINAGE	SED. BUCKET	AUX. STRAINER	GRAVELSTOP	U'DECK CLAMP	TRAP PRIMER	SEE NOT
FD-1	Z507	Х				Х				3"	Х		7"		Х							Х				Х	Х	Х					1
													_																				
TD-1	Z886			Х				Х			Х		6.25" WIDE		Х								Χ										2,3
																																	.,
FCO	ZN1400-B	Х				Х				6"	Х		7-7/8"	Х							Χ												
GCO	Z1474-VP	Х				Х							-	Х								Х											

PROVIDE TRAP SEAL PROTECTION DEVICE EQUAL TO Z1072. TOTAL LENGTH OF DRAIN TO BE 25'-0". SLOPE TO MIDDLE OF DRAIN.

DATE 04/08/22 2021145 JOB NO. DRAWN JDO CHECKED JLW

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ISSUE

04/08/22 PERMIT AND CONSTRUCTION

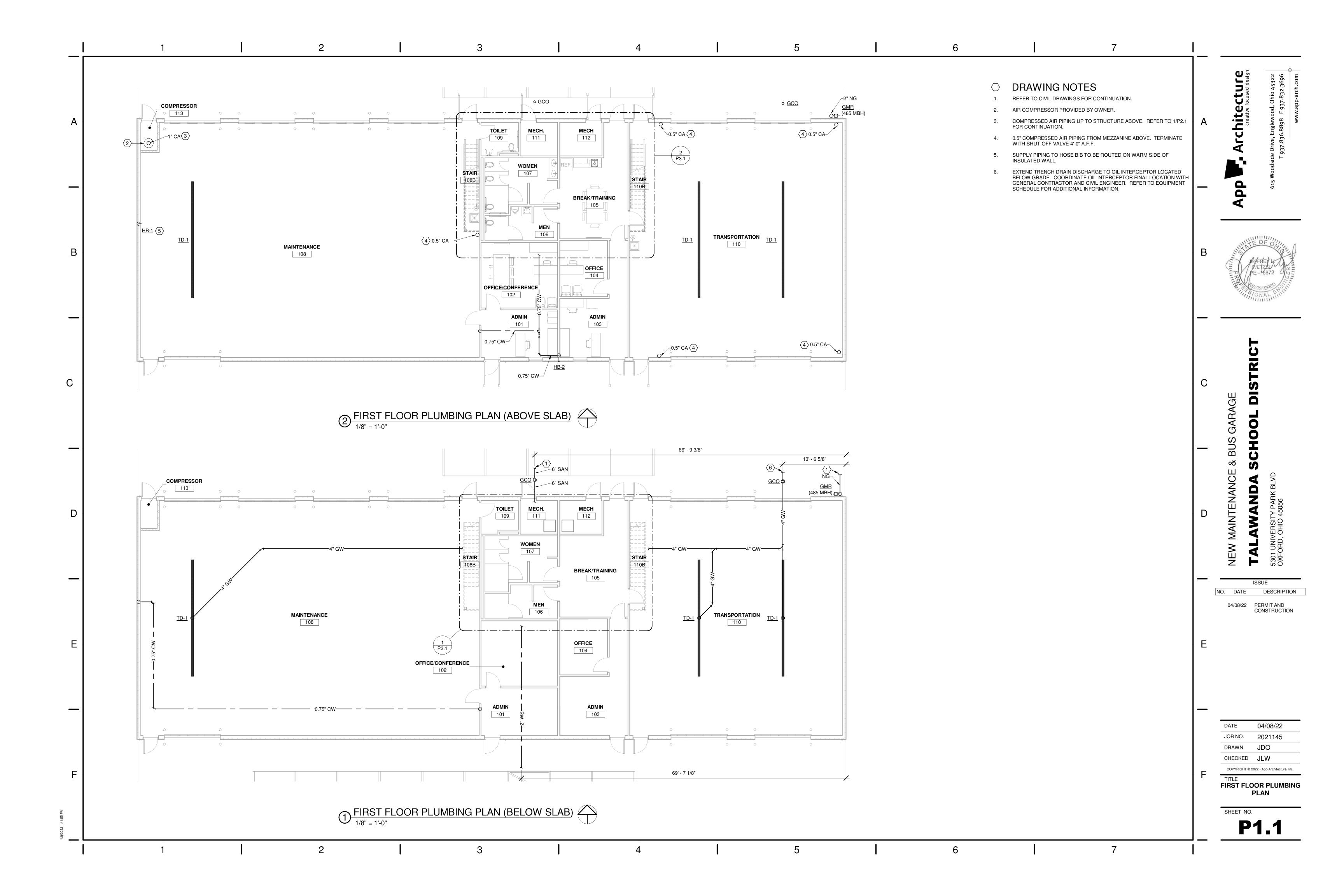
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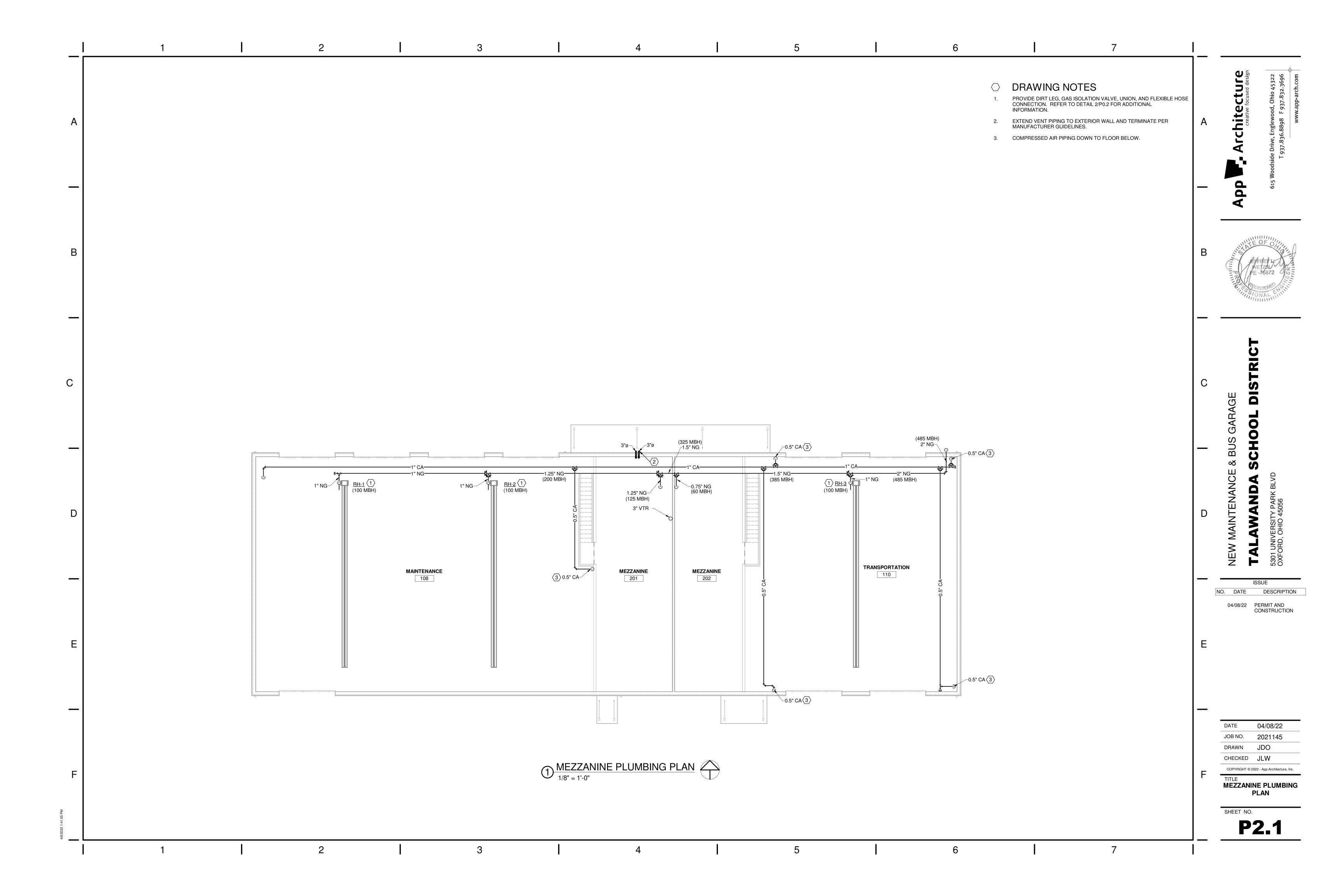
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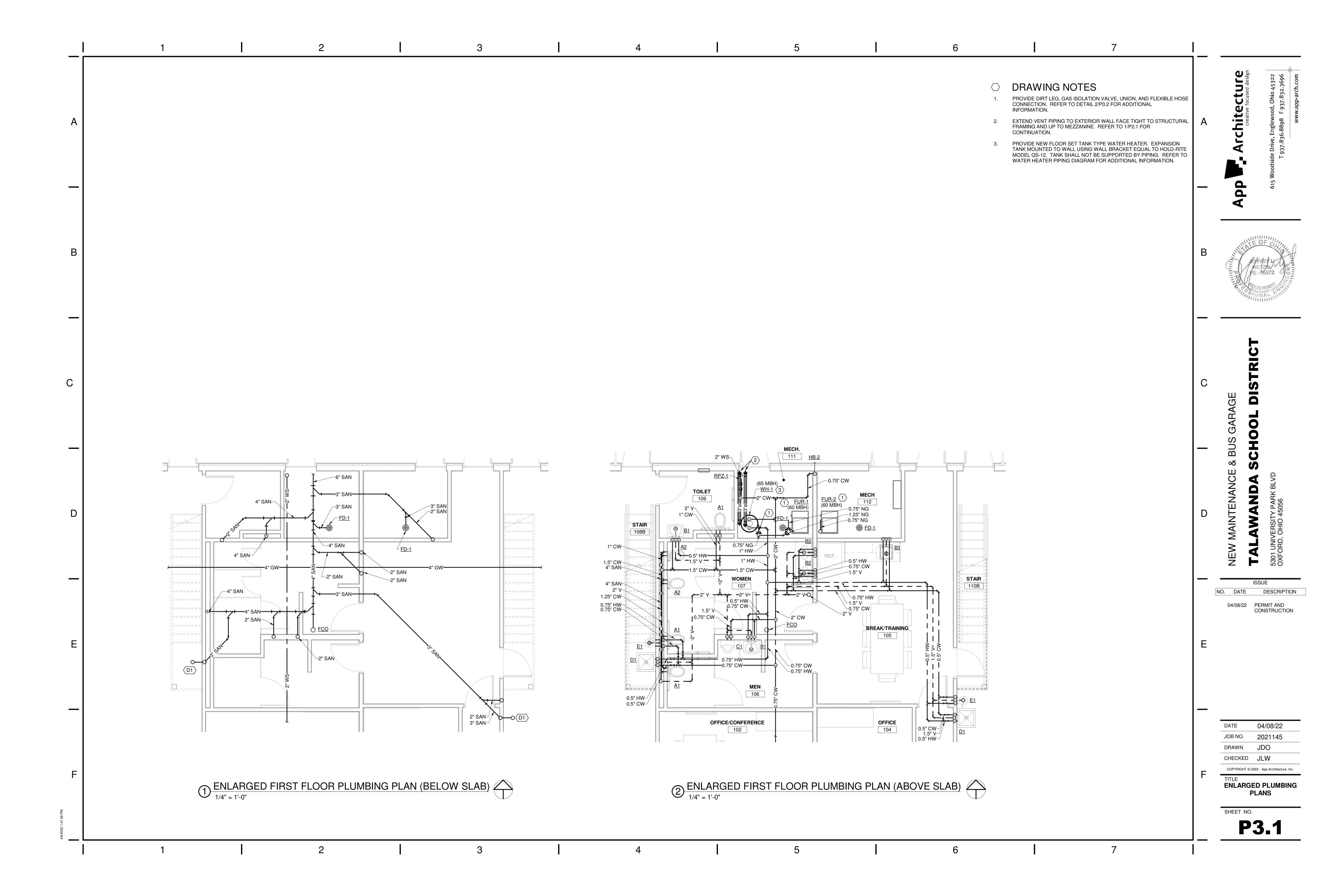
PLUMBING SCHEDULES AND DETAILS

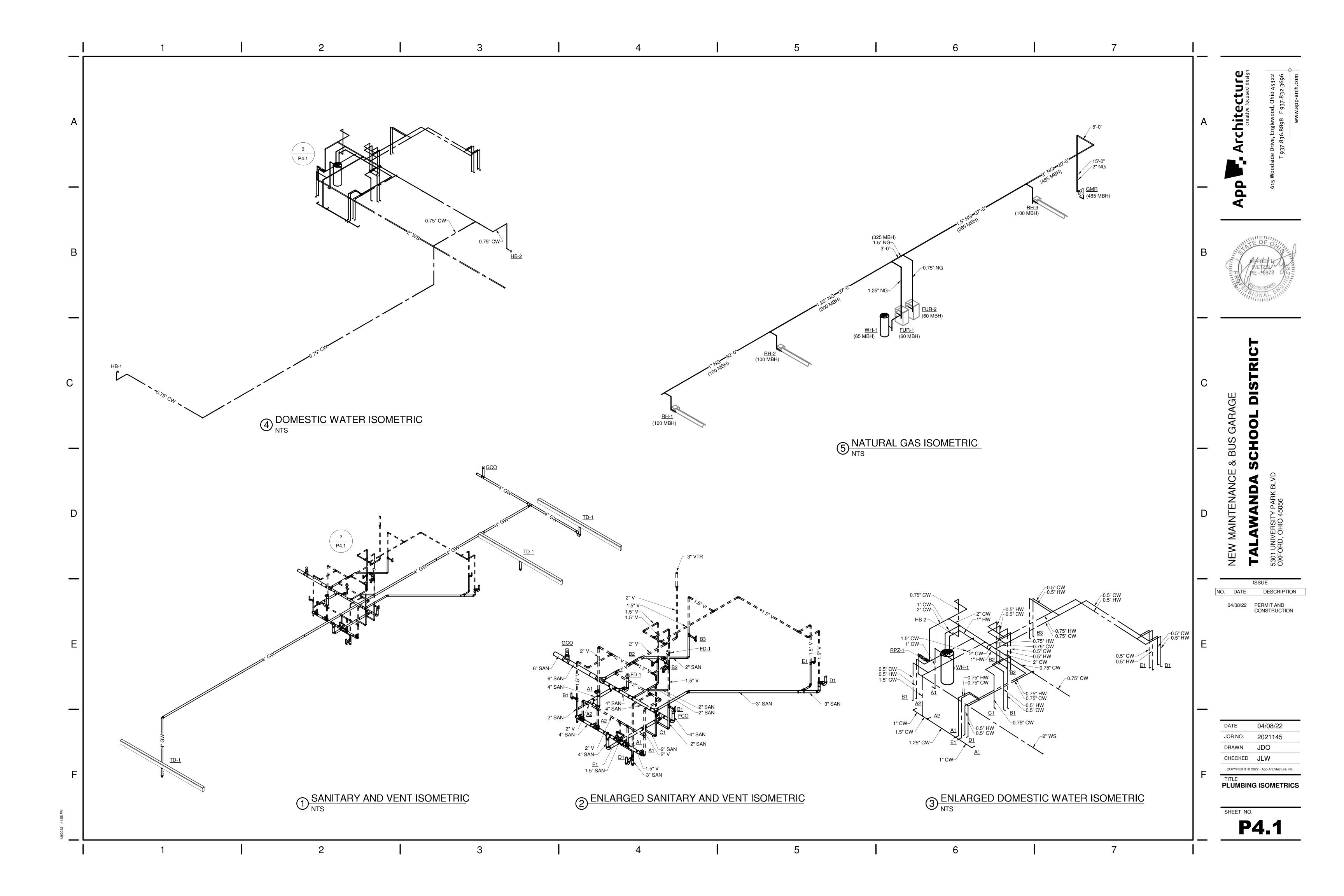
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CONTRACTOR TO PROVIDE SUPPORT WIRES AT OPPOSITE CORNERS OF LIGHT

FIXTURES, MECHANICAL DIFFUSERS, AND GRILLES TO STRUCTURE ABOVE.

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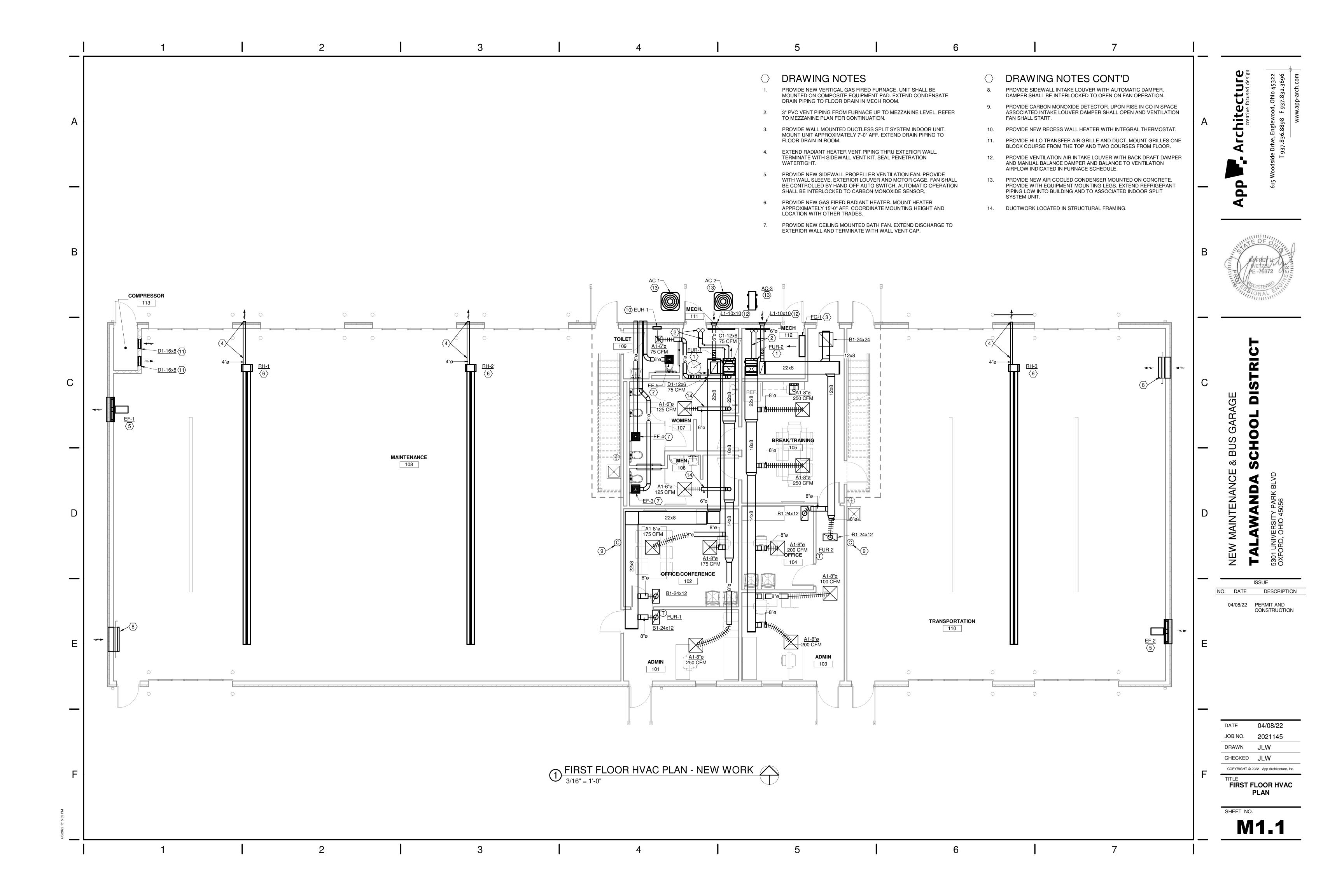
MEZZANINE FLOOR HVAC PLAN

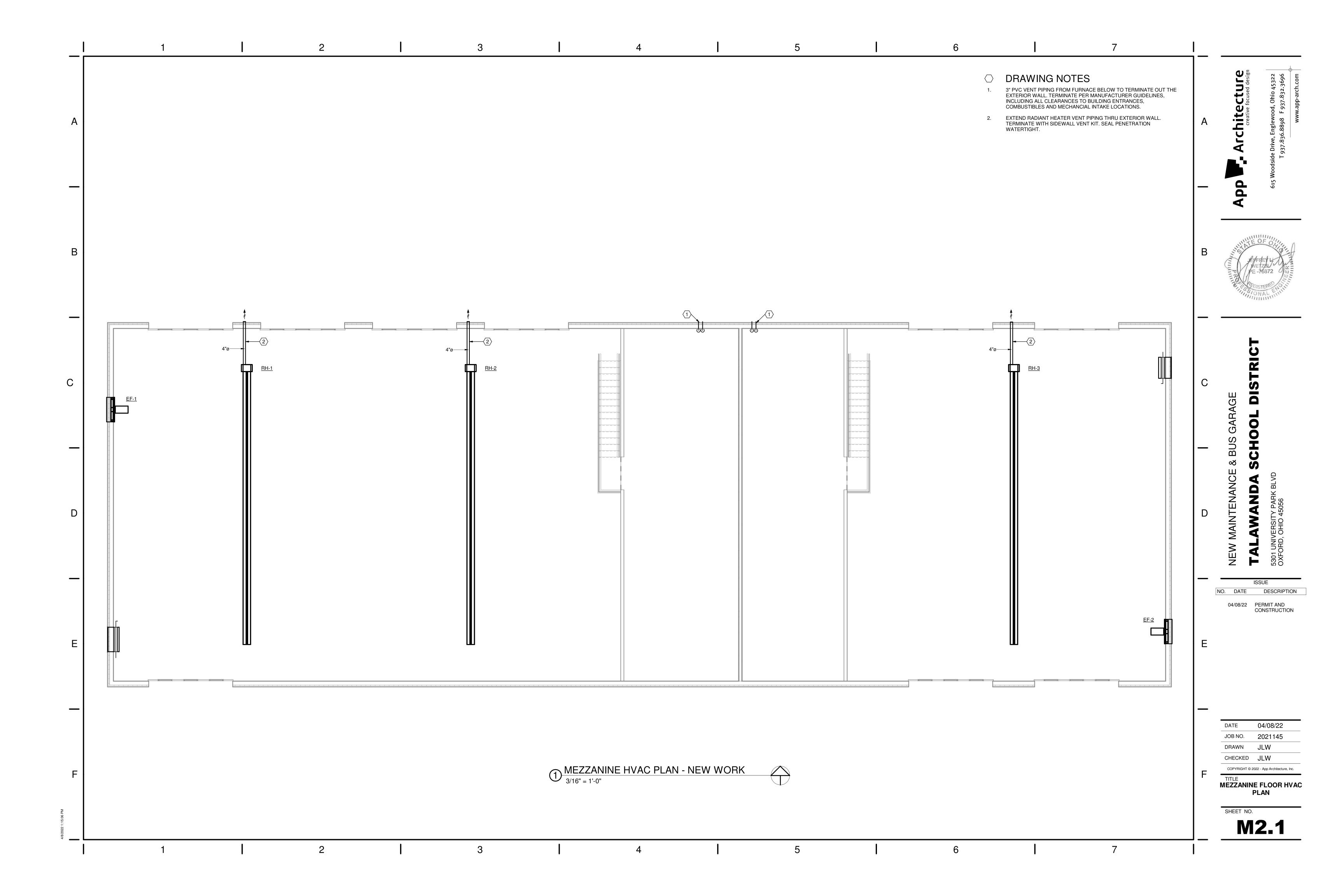
04/08/22 JOB NO. 2021145 DRAWN **JLW** CHECKED JLW COPYRIGHT © 2022 - App Architecture, Inc.

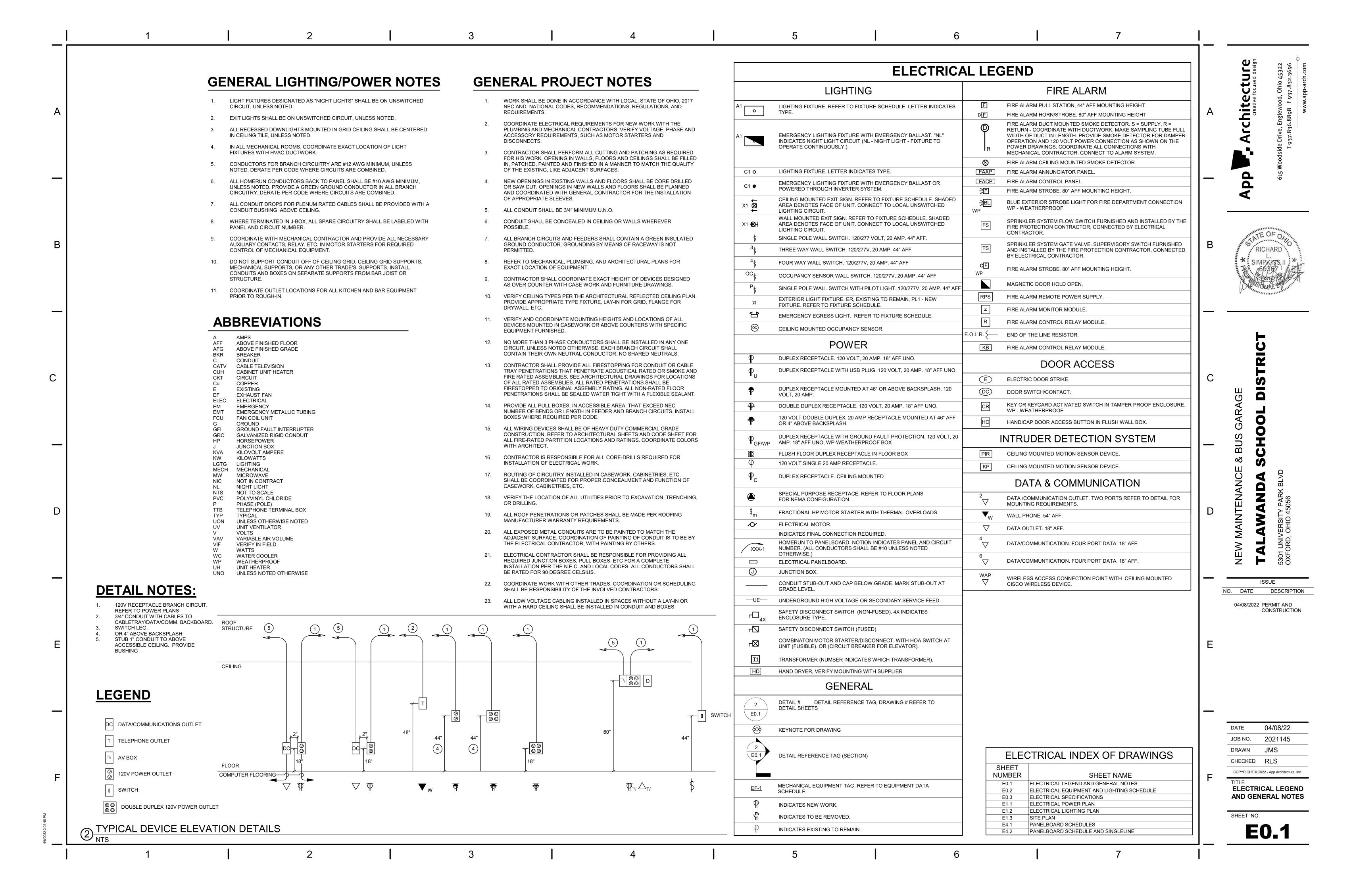
**HVAC LEGEND AND GENERAL NOTES** 

SHEET NO.

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		DIFFUSERS, REGISTERS, GRILLE	S AND I OUVERS SCHEDULE		FURNACE SCHEDULE		<b>ecture</b> e focused design  d, Ohio 45322  937.832.3696
A		PLAN MARK  DESCRIPTION  BASIS OF DESIGN  MFR MODEL  A1 SQUARE FACE DIFFUSER, 24"x24" FACE TITUS TMS  B1 EGGCRATE RETURN GRILLE TITUS 50F  C1 DBL DEFLECTION SUPPLY GRILLE TITUS 272RL	MOUNTING FINISH MATERIAL DAMPER TYPE NOTES  LAY-IN WHITE STEEL  LAY-IN WHITE STEEL  SURFACE WHITE STEEL OPP. BLADE DMPR -  SURFACE WHITE STEEL OPP. BLADE DMPR -	PLAN MARK         BASIS OF DESIGN           MFR         MODEL         CFM         VENT. AIR CFM           FUR-1         CARRIER         59SC2D         1,000         89           FUR-2         CARRIER         59SC2D         1,000         94	ESP         MBH INPUT         MBH OUTPUT         NOM. COOL CAPACITY (TONS)         WIDTH         DEF           0.50"         60         56         2.5         14.5"         2	ENSION ELECTRICAL  EPTH HEIGHT V/PH MCA MOCP  29" 34" 120/1 9.9 15 1,2,3,4,5  29" 34" 120/1 9.9 15 1,2,3,4,5	Architect creative focuse Dodside Drive, Englewood, Ohio T937.836.8898 F937.833
		GENERAL NOTES: A PRICE AND KRUEGER ACCEPTABLE ALTERNATE MANUFACTURERS NOTES:	S.	GENERAL NOTES:  A ACCEPTABLE ALTERNATE MANUFACTURER BY RHE B REFRIGERANT PIPING TO BE SIZED BY MANUFACTU  NOTES:  1. PROVIDE WITH NON-FUSED DISCONNECT SWITCH. 2. PROVIDE MATCHED EVAPORATOR COIL AND COND 3. PROVIDE WITH FILTER RACK AND 1" PLEATED SPAF 4. PROVIDE CONCENTRIC VENT KIT AND NEUTRALIZIN 5. PROVIDE WITH 7-DAY PROGRAMMABLE THERMOST	URER DENSING UNIT. RE SET OF FILTERS. NG KIT.		<b>App</b>
В			THEATER SCHEDULE SOF DESIGN INPUT ELECTRIC TUBE				B EYFREY LA WETZAL DE -16872
		MARK  DESCRIPTION  MANUE  RH-1 SINGLE STAGE, LOW INTENSITY RE-VERBEE  RH-2 SINGLE STAGE, LOW INTENSITY RE-VERBEE	100	PLAN ASSOCIATED E MARK INDOOR UNIT MI	BASIS OF DESIGN         NOM. TONS         AMB. TEMP (°F)         MIN. UNIT EER           RRIER         24ACC6         2.5         95         16           RRIER         24ACC6         2.5         95         16	N.   ELECTRICAL   NOTES   NOTE	THIS TONAL ENTITY
С		NOTES:  1. PROVIDE WITH POLISHED ALUMINUM REFLECTOR, FLE DIGITAL HEATING ONLY LOW VOLTAGE THERMOSTAT.	XIBLE GAS CONNECTOR, 24V CONTROL TRANSFORMER AND	NOTES:	NUFACTURER BY CARRIER OR BRYANT.  R COMPOSITE EQUIPMENT PAD.		O GE DISTRIC
	PLAN MARK	DUCTLESS SPLIT SYSTEM  INDOOR UNIT  BASIS OF DESIGN  MFR MODEL CFM V/PH NOM. COOLING CAPACITY (MBH)  NOM. HEATING CAPACITY (MBH)	OUTDOOR UNIT  BASIS OF DESIGN  MFR  MODEL  V/PH  MCA  MOCP  NOTES	EF-1 SIDEWALL PROPELLER G EF-2 SIDEWALL PROPELLER G	GREENHECK SE 3,300 0.38 -	DIRECT         -         1.5         208         1         2           DIRECT         -         0.75         208         1         2	L SE & BUS GARA SCHOOL
D	A		TSUBISHI MUZ-GL18NA 208-230/1 14 15  UNIT COOLING CAPACITY BASED ON PERATURE.	EF-4 CEILING EXHAUST G  EF-5 CEILING EXHAUST G  NOTES:  1. PROVIDE WITH INTEGRAL D			D  MAINTENANC  LAWANDA  NIVERSITY PARK BLV  ND, OHIO 45056
	1. 2.	INDOOR UNIT POWERED FROM OUTDOOR UNIT. WIRING AND DISCONNECTS BY E-PROVIDE WITH WALL MOUNTED WIRED TEMPERATURE CONTROLLER WITH CLEAR WITH TAMPERPROOF HARDWARE. REFER TO PLANS FOR MOUNTING LOCATION.		3. TAN STALL BE CONTROLLED	THE OCCUPANCE SENSON.		ISSUE  NO. DATE DESCRIPTION  04/08/22 PERMIT AND
E	102 103 104 105 106	ROOM NAME OCCUPANCY TYPE AREA (SF) (#/10 ADMIN OFFICE OFFICE/CONFERENCE CONFERENCE 230 5 ADMIN OFFICE OFFICE OFFICE BREAK/TRAINING BREAK 101	JPANT ISITY         PEOPLE AIR RATE (CFM/PERSON)         AREA AIR RATE (CFM/SF)         NUMBER OF PEOPLE         MINIMUM OA. AIRFLOW (CFM)           5         5         0.06         1         15           60         5         0.06         12         74           5         5         0.06         2         24           5         5         0.06         1         12	PLAN MARK TYPE  EUH-1 RECESSED WALL HEATER  NOTES:	BASIS OF DESIGN MANUF. MODEL KW VOLT PHASE MARLEY EFF 4 208 3  INTEGRAL THERMOSTAT AND TAMPERPROOF	DIMENSIONS  LENGTH HEIGHT DEPTH RECESS  15" 19" 4" 3" 1	E
	108 109 110 111 112	WOMEN       162         MAINTENANCE       3530         TOILET       54         TRANSPORTATION       2178         MECH.       58         MECH       65         COMPRESSOR       21         7214	0 0 0.75 0 2648 0 0 0.75 0 1634 4465				DATE 04/08/22  JOB NO. 2021145  DRAWN JLW
F							CHECKED JLW  COPYRIGHT © 2022 - App Architecture, Inc.  TITLE HVAC SCHEDULES & DETAILS
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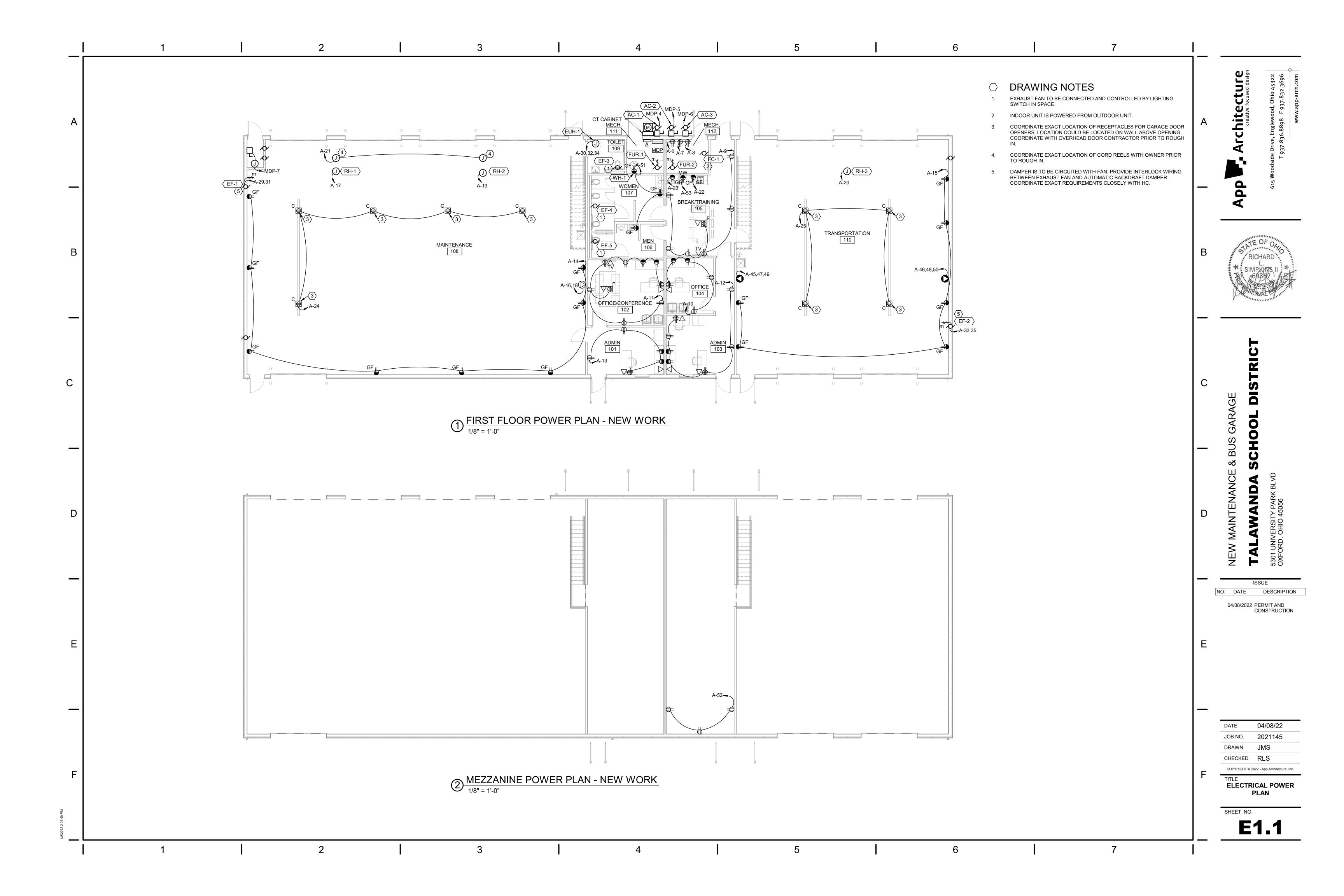


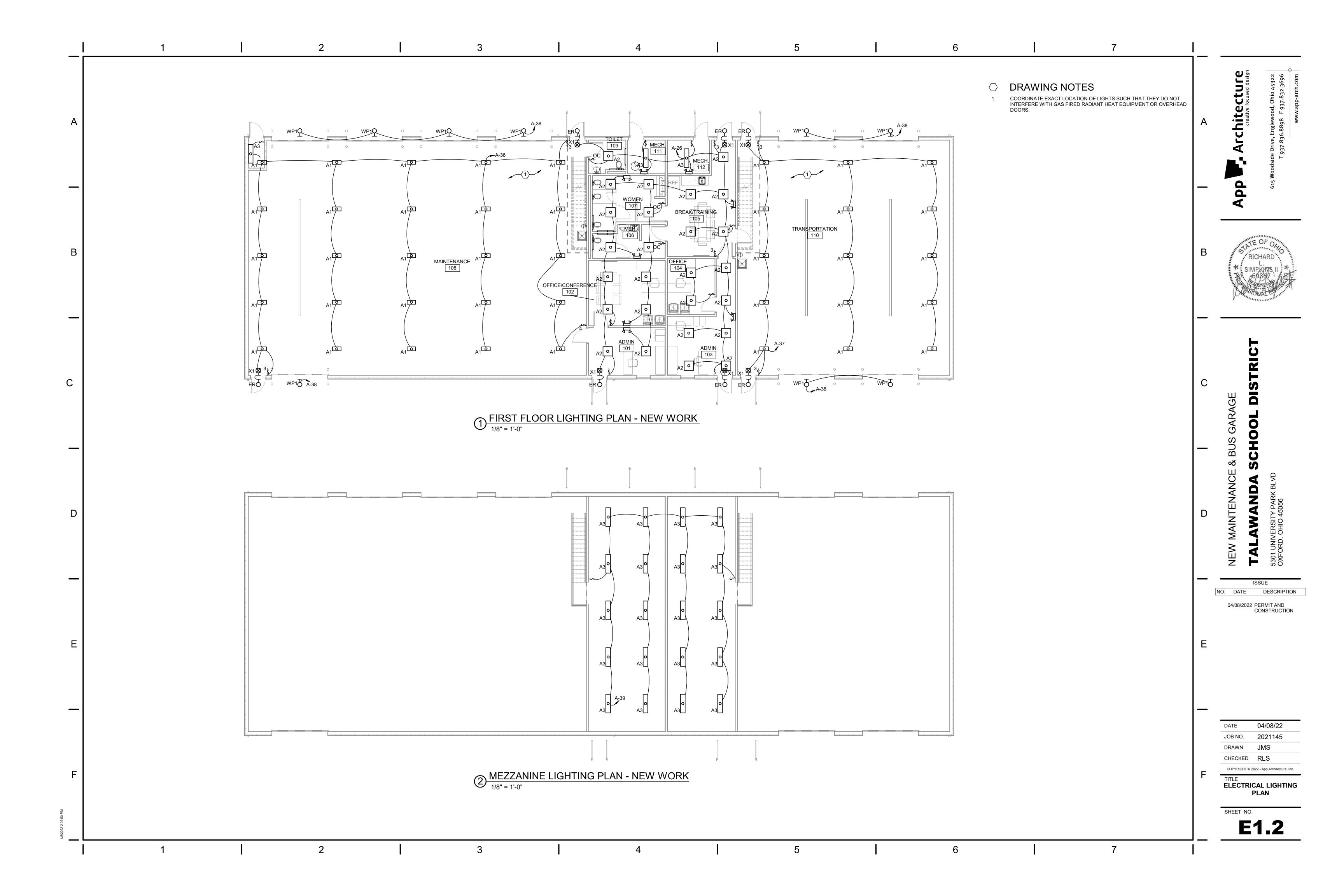


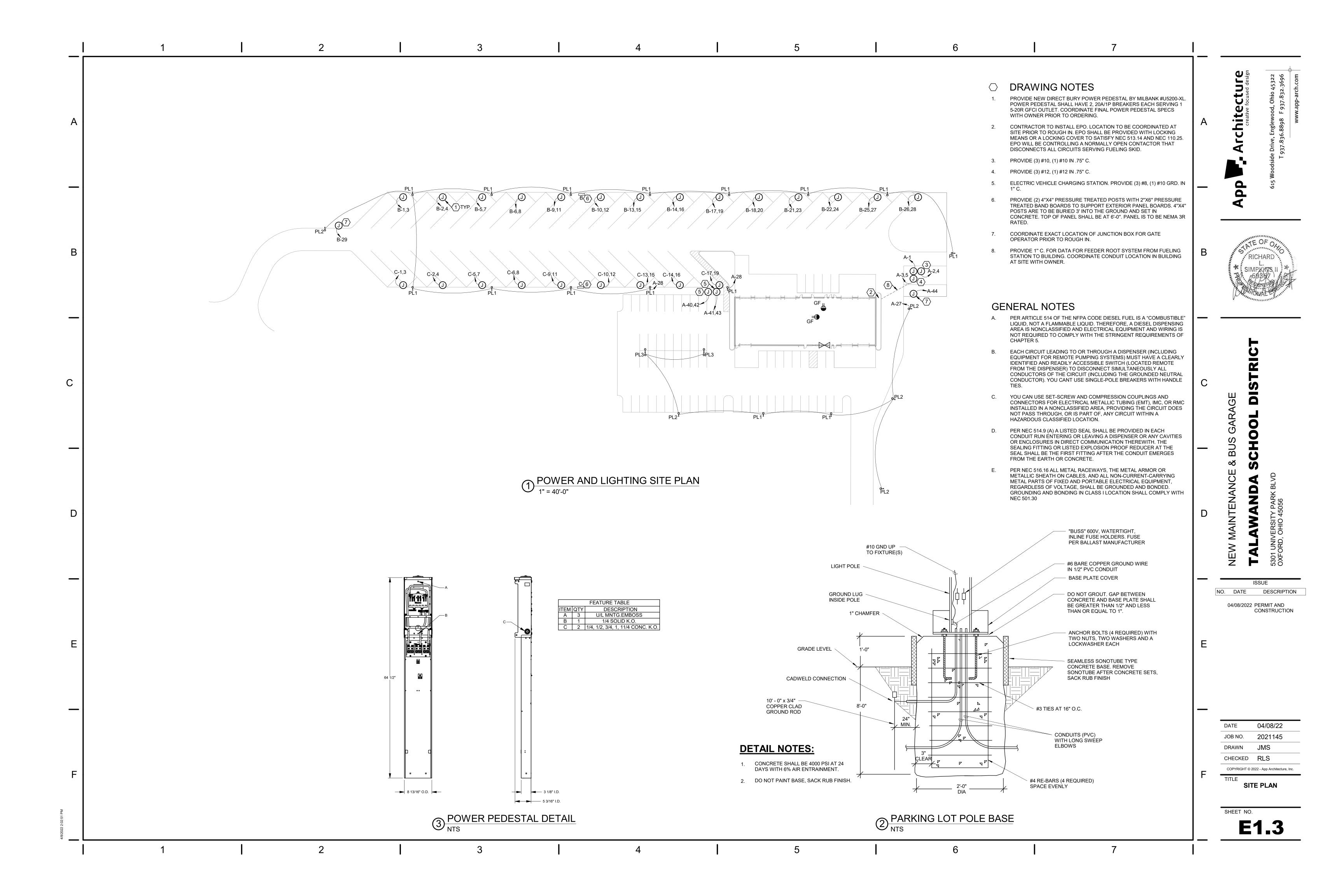


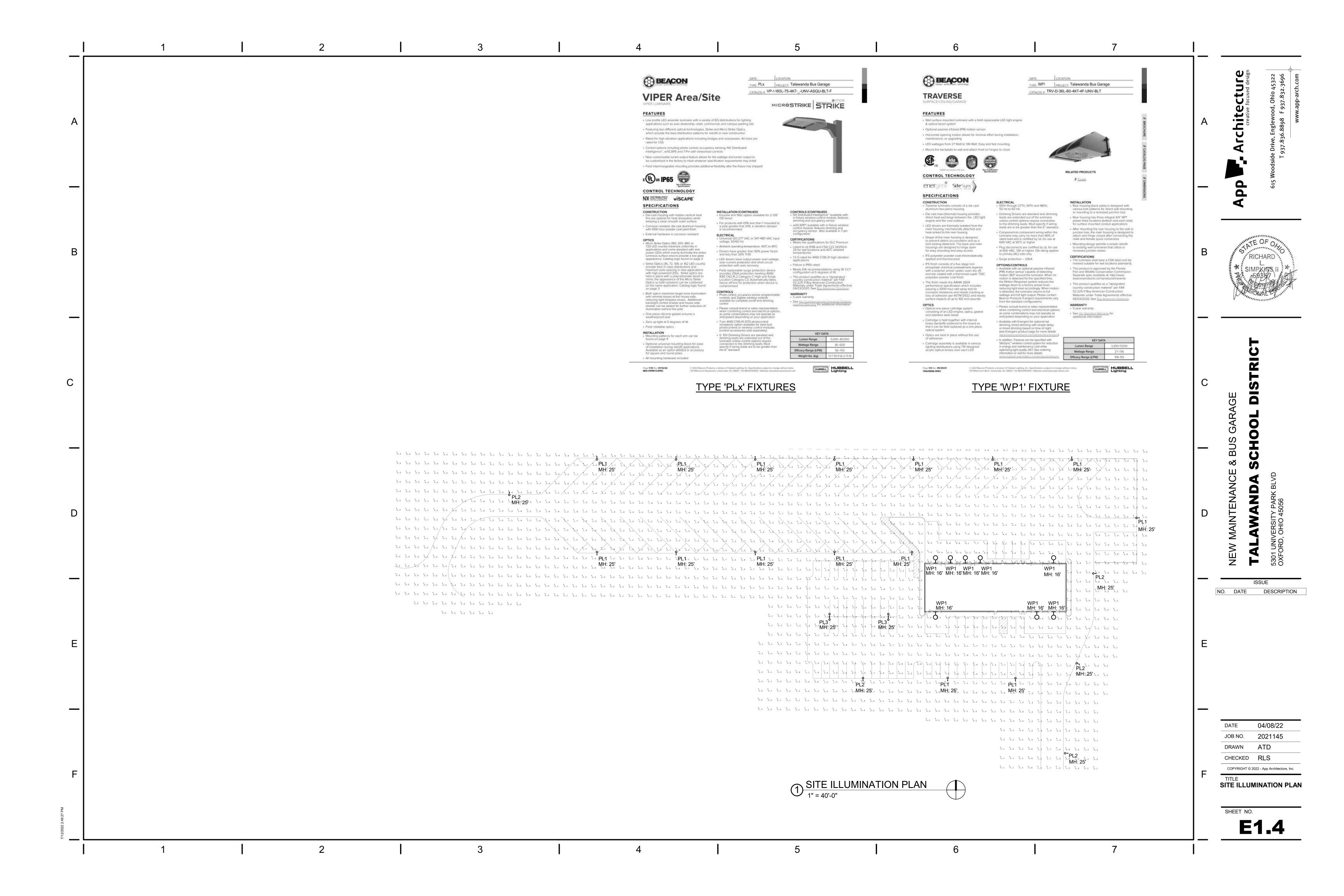
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		EQUIPMENT ELECTRICAL DATA SCHEDULI	<u> </u>						Cture design Ohio 45322 S7.832.3696 Op-arch.com
A		PLAN SYMBOL DESCRIPTION/LOCATION  AC-1 AIR CONDITIONER  AC-2 AIR CONDITIONER  AC-3 AIR CONDITIONER	LOAD CHARACTERISTICS    A	ES ES - IN UNIT -	DISCONNECT  SINA THE SWITCH/FUSE SIZE  EC EC - NEAR UNIT  EC EC - NEAR UNIT  EC EC - NEAR UNIT	CTRL DEVICE    A	FEEDER SIZE/ RACEWAY  (3) #12, (1) #12 GRD. IN .75"  (3) #12, (1) #12 GRD. IN .75"  (3) #12, (1) #12 GRD. IN .75"	NOTES PLAN SYMBOL  - AC-1 - AC-2 - AC-3	Architect creative focuse Woodside Drive, Englewood, Ohio T937.836.8898 F937.833
		FC-1 FAN COIL  FUR-1 FURNACE  FUR-2 FURNACE  EF-1 EXHAUST FAN  EF-2 EXHAUST FAN  EF-3 EXHAUST FAN	208 1	ES ES - IN UNIT SW	EC EC - NEAR UNIT		(3) #12, (1) #12 GRD. IN .75" (3) #12, (1) #12 GRD. IN .75"	- FC-1 - FUR-1 - FUR-2 - EF-1 - EF-2 - EF-3	<b>App</b> 6151
В		EF-4 EXHAUST FAN  EF-5 EXHAUST FAN  WH-1 WATER HEATER  RH-1 RADIANT HEATER  RH-2 RADIANT HEATER  RH-3 RADIANT HEATER  EUH-1 ELECTRIC UNIT HEATER	120 1 1.7 - 120 1 1.7	ES ES - IN UNIT SW	EC EC - NEAR UNIT  EC EC - NEAR UNIT		(3) #12, (1) #12 GRD. IN .75" (3) #12, (1) #12 GRD. IN .75"	- EF-4 - EF-5 - WH-1 - RH-1 - RH-2 - RH-3 - EUH-1	B RICHARD  * SIMPKINS II  69807
_		ABBREVIATIONS:  CC - CONTROL CONTRACTOR FS - FUSED SWITCH CP - CORD/PLUG FSC - FIRE SUPPRESSION CONTRACTOR EC - ELECTRICAL CONTRACTOR FSEC - FOOD SERVICE EQUIP. CONT ES - EQUIPMENT SUPPLIER FVNR - FULL VOLTAGE NON-REVERS  NOTES:	CTOR HC - HEATING CONTRACTOR RACTOR PC - PLUMBING CONTRACTOR	VC - VENTILATION CONTRACTOR TS - THERMOSTAT					
C									J O
		LIGHTING FIXTURE SCHEDULE					MOUNTING		NCE & B
D		FIXTURE SYMBOL FLOURESCENT INCANDESCENT H.I.D. L.E.D.  WATTS/LAMP (MANUFACTURER) CATALOG NUMBER FIXTURE VOLTAGE FIXTURE EFFICIENCY FIXTURE EFFICIENCY DELIVERED LUMENS	MANUFACTURER AND MODEL NUMBER	OTHER ACCEPTABLE MANUFACTURER	DIFFUSER MFDIA	CLASSIFICATION TRIM COLOR  EM - EMERGENCY N - NORMAL HAZ - HAZARDOUS HB - HIGH BAY LB - LOW BAY HM - HIGH MAST  STANDARD  REAL - EMERGENCY N - NORMAL HAZ - HAZARDOUS HB - HIGH BAY LB - LOW BAY HM - HIGH MAST	S - SURFACE R - RECESSED SM - STEM MTD. WM - WALL MTD. C - CHAIN MTD. UC - UNDER CAB. CS - CEIL. SURF.	TE (IN.)  DEPTH  NOTES	D NEW MAINTENAN TALAWAND 5301 UNIVERSITY PARK E OXFORD, OHIO 45056
_		A1       -       -       1       75.9       -       120       75.9       -       10,52         A2       -       -       -       1       30       -       120       30       -       3,33         A3       -       -       -       1       30       -       120       30       -       4,27         X1       -       -       -       1       -       -       120       -       -       -         ER       -       -       1       -       -       120       -       -       -         TYT       -       -       2       -       -       120       -       -       -	8 COLUMBIA #CFP22-40/33/2835	AS PRE-APPROVED  AS PRE-APPROVED  AS PRE-APPROVED  AS PRE-APPROVED  AS PRE-APPROVED  AS PRE-APPROVED	HIGH BAY EDGE LIT LED EDGE LIT LED	N X N X N X N X N X N X N X N X N X N X	R 23.7 CS 11.8 WM-7'-6" 19.25 8 WM-7'-6" 4.5	22.7 2.3 - 23.7 1.58 - 47.7 1.58 - 3.125 1.75 - DIA 6.7 - 9 2.75 -	ISSUE  NO. DATE DESCRIPTION  04/08/2022 PERMIT AND CONSTRUCTION
E		PL1       -       -       1       72.1       -       120       72.1       -       9,42         PL2       -       -       -       1       72.1       -       120       72.1       -       10,46         PL3       -       -       -       1       72.1       -       120       144.2       -       9,42         WP1       -       -       -       1       80       -       120       80       -       9,47         NOTES:         1.       POLE #VALMONT #DS330-400Q250-D1-FP-BK-FBC	BEACON #VP-1-160L-75-4K7-3-UNV-ASQU-BLT-F  BEACON #VP-1-160L-75-4K7-4F-UNV-ASQU-BLT-F	AS PRE-APPROVED  AS PRE-APPROVED  AS PRE-APPROVED  AS PRE-APPROVED	SITE LIGHTING SITE LIGHTING SITE LIGHTING SITE LIGHTING	N	X POLE - X POLE -	1 1 1 	E
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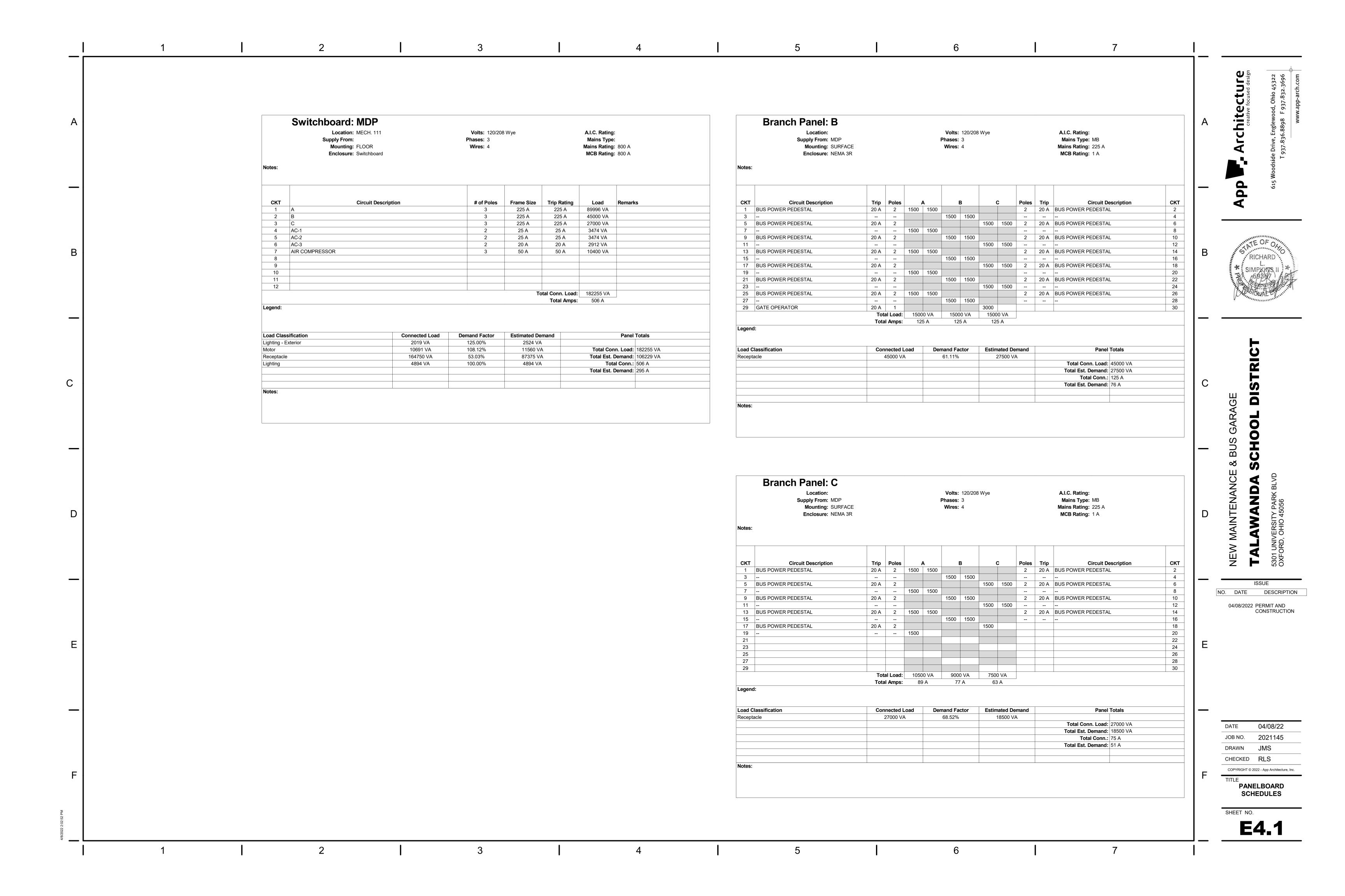
	A. REFERENCE	CODES AND FEES	D. ONOLE DOLE OMITOLIES, OR AMD, 400/077 VOLT.	<u>DISCONNECTS</u>	C C Sed des
	1. THE GENERAL CONDITIONS AND OTHER CONTRACT DRAWINGS AS SET FORTH IN THE FOREGOING PAGES ARE HEREBY INCORPORATED INTO AND BECOME A PART OF THE SPECIFICATIONS FOR WORK UNDER THIS NILE, INSOFAR AS THEY APPLY HERETO.	A. CODES:  1. ALL WORK PERFORMED UNDER THIS SPECIFICATION SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AS PREPARED AND PUBLISHED BY THE	<ul> <li>D. SINGLE POLE SWITCHES - 20 AMP. 120/277 VOLT:</li> <li>1. HUBBELL - 1221-1.</li> <li>2. ARROW HART - 1991-1.</li> </ul>	H. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL HEAVY DUTY FUSIBLE DISCONNECT OR NON-FUSIBLE DISCONNECT SWITCHES WHERE SHOWN ON THE DRAWINGS, IN CONFORMANCE	leCt
Α	2. ALL SPECIFICATIONS UNDER THIS DIVISION TITLE ARE DIRECTED TO AND ARE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. UNLESS OTHER TRADES OR PERSONS ARE	NATIONAL FIRE PROTECTION ASSOCIATION AND ANY APPLICABLE STATE OR LOCAL CODES.	G. G.F.I. RECEPTACLE - 15 AMP, 125 VOLT - NEMA 5-15R:	WITH NEC REQUIREMENTS FOR EACH UNIT OF EQUIPMENT. (DOES NOT INCLUDE DISCONNECTS FURNISHED BY FIRE PUMP PROVIDER)  I. SWITCHES SHALL BE WALL MOUNTED IN GENERAL PURPOSE ENCLOSURE UNLESS OTHERWISE	
	SPECIFICALLY MENTIONED, "ELECTRICAL CONTRACTOR" IS INFERRED AND INTENDED.  3. ALL PANEL BOARDS AND CIRCUIT BREAKERS SHALL BE BY SQUARE D PER OWNER REQUIREMENTS.		<ol> <li>HUBBELL - GF 5262-1 WITH S26 OR PJ26 PLATE OR WP-26 W.P. COVER.</li> <li>G.F.I. RECEPTACLE - 20 AMP, 125 VOLT - NEMA 5-20R:</li> </ol>	NOTED. THEY SHALL BE NEMA HEAVY-DUTY TYPE AND SHALL HAVE THE RATING. CAPACITY AND NUMBER OF POLES FOR THE SERVICE CONCERNED.  J. EXTERIOR SWITCHES SHALL BE NEMA 3R TYPE.	Ā
	B. CONTRACT DRAWINGS	TESTS AND SPECIFICAITONS  A. OBTAIN ALL INSPECTIONS REQUIRED BY ALL LAWS, ORDINANCES, RULES, REGULATIONS OR PUBLIC	1. HUBBELL - GF 5362-1 WITH S26 OR PJ26 PLATE OR WP-26 W.P. COVER.	K. FUSIBLE SWITCHES SHALL HAVE CLASS R FUSE CLIPS.	
_	<ol> <li>THE DRAWINGS ACCOMPANYING THESE SPECIFICATIONS ARE COMPLEMENTARY EACH TO THE OTHER AND WHAT IS CALLED FOR BY ONE SHALL BE AS IF CALLED FOR BY BOTH.</li> <li>CONSULT ALL CONTRACT DRAWINGS WHICH MAY AFFECT THE LOCATION OF EQUIPMENT,</li> </ol>	AUTHORITY HAVING JURISDICTION AND OBTAIN CERTIFICATES OF SUCH INSPECTIONS AND SUBMIT SAME TO THE OWNER'S REPRESENTATIVE. PAY ALL FEES, CHARGES AND OTHER EXPENSES IN CONNECTION THEREIN. OBTAIN OCCUPANCY PERMIT AS REQUIRED BY OWNER. FINAL PAYMENT SHALL NOT BE MADE UNTIL OCCUPANCY PERMIT IS OBTAINED.	<ul> <li>I. GROUND ALL RECEPTACLES IN ACCORDANCE WITH ARTICLE 250.146 OF NEC AND AS INDICATED IN THE GROUNDING SECTION OF THIS SPECIFICATION.</li> <li>J. GENERAL USE DUPLEX RECEPTACLES SHALL BE GROUNDING TYPE, 15 AMPERE, 125 VOLT UNLESS</li> </ul>	<ul><li>L. SWITCHES FOR USE ON MOTOR CIRCUITS SHALL BE HORSEPOWER RATED.</li><li>M. SWITCHES SHALL BE INSTALLED TO PROVIDE CODE REQUIRED CLEARANCE AND SHALL BE</li></ul>	_ <b>d</b>
	CONDUIT AND WIRING AND MAKE MINOR ADJUSTMENTS IN LOCATION TO SECURE COORDINATION.  I  WIRING LAYOUT IS SCHEMATIC AND EXACT LOCATIONS SHALL BE DETERMINED BY FIELD	3. WORK SHALL BE UNACCEPTABLE WHEN FOUND TO BE DEFECTIVE OR CONTRARY TO THE PLANS SPECIFICATIONS, CODES SPECIFIED OR ACCEPTED STANDARDS OF GOOD WORKMANSHIP.	THERE IS ONLY ONE ON A 20 AMPERE CIRCUIT, THEN IT SHALL BE 20 AMPERE.  K. COORDINATE DEVICE COLOR WITH ARCHITECT.	GENERALLY WALL MOUNTED AT 6'-0" TO TOP.  N. DISCONNECTS MOUNTED ON EQUIPMENT SHALL BE FIELD COORDINATED AND LOCATED TO CLEAR ANY ACCESS OPENINGS OR PATHS.	◀
	CONDITIONS.  4. OTHER THAN MINOR ADJUSTMENTS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR APPROVAL BEFORE PROCEEDING WITH THE WORK.  C. JOB-SITE COPY OF DOCUMENTS	CORRECTING SUCH UNACCEPTABLE WORK, INCLUDING COMPENSATION FOR THE OWNERS	IDENTIFICATION  H. EACH PIECE OF ELECTRICAL EQUIPMENT AND INDIVIDUAL SWITCHES, ALL DISCONNECTS, STARTERS	O. PROVIDE FREE STANDING UNISTRUT SUPPORT FRAME FOR SWITCHES THAT CANNOT BE WALL OR EQUIPMENT MOUNTED. FRAME SHALL BE FULL HEIGHT AND ATTACHED AT THE FLOOR AND CEILING, OR ANGLE BRACED TO FLOOR OR POURED INTO CONCRETE EQUIPMENT PAD IN ORDER TO PROVIDE RIGID STRUCTURE. MINIMUM HEIGHT TO TOP OF FLOOR MOUNTED SWITCHES SHALL BE 36".	striken ATE O
В	1. MAINTAIN AT THE SITE, ONE COPY OF ALL DRAWINGS, SPECIFICATIONS, ADDENDA APPROVED SHOP DRAWINGS, CHANGE ORDERS AND OTHER MODIFICATIONS, IN GOOD ORDER AND MARKED	NEI NEGENTATIVE ADDITIONAL GENVIGEG MADE NEGEGGANT THENEBT.	ALL EXHAUST FAN MANUAL STARTING SWITCHES, ALL POWER AND LIGHTING PANELS, ALL CABINETS AND PULL BOXES, ETC., SHALL BE IDENTIFIED ON THE FRONT COVER OR TRIM WITH ITS NAME AND/OR DESIGNATION NUMBER OR LETTER AS SHOWN ON THE DRAWINGS AND WITH THE VOLTAGE AVAILABLE WITHIN THE PANEL.	P. HANDLE SHALL BE PAD LOCKABLE.	RICHA * SIMPKI
	TO RECORD ALL CHANGES MADE DURING CONSTRUCTION. THESE SHALL BE AVAILABLE TO THE OWNER'S REPRESENTATIVE. THE DRAWINGS MARKED TO RECORD ALL CHANGES MADE DURING CONSTRUCTION SHALL BE DELIVERED TO THE OWNER'S REPRESENTATIVE FOR THE OWNER UPON COMPLETION OF THE WORK. AN ADDITIONAL SET OF DRAWINGS WILL BE FURNISHED BY THE	<ol> <li>EMERGENCY LIGHTING.</li> <li>RECEPTACLE AND EQUIPMENT POWER.</li> <li>LIGHTING.</li> </ol>	I. IDENTIFICATION SHALL BE IN THE FORM OF LAMINATED PLASTIC NAMEPLATES, BLACK FACE, WITH THE LETTERS ENGRAVED INTO THE WHITE BACKGROUND, MINIMUM 1/4" HIGH. PLATES SHALL BE DRILLED ON	MOTOR AND EQUIPMENT WIRING  A. PROVIDE POWER AND CONNECT ALL MOTORS AND MOTOR DRIVEN EQUIPMENT SHOWN ON THE PLANS.	7693 1693 1695
	OWNER'S REPRESENTATIVE FOR THIS PURPOSE UPON REQUEST.  D. MANUFACTURER'S DRAWINGS	CONDUIT	EACH END FOR SHEETMETAL SCREW ATTACHMENT, NO "DYMO" OR SIMILAR TYPE LABELS WILL BE ALLOWED.  J. THE FOLLOWING IS AN EXAMPLE OF THE NAMEPLATE LAYOUT AND WORDING:	B. FURNISH, INSTALL AND CONNECT ALL OVER CURRENT AND DISCONNECT MEANS AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.	V
	MANUFACTURER'S DRAWINGS AND WIRING DIAGRAMS. THE ENGINEER WILL REVIEW	A. FURNISH AND INSTALL ALL CONDUITS, BOXES, FITTINGS, ETC., FOR A COMPLETE RACEWAY SYSTEM.  ALL WIRING SHALL BE RUN IN EMT CONDUIT LINESS OTHERWISE NOTED.	AC-1 DICONNECT 208V - 1PH CKT B-1,2	C. MOTORS AND MOTOR DRIVEN EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY OTHERS. MOTOR STARTERS, CONTROLLERS AND CONTROL DEVICES; OTHER THAN BUILDING AUTOMATION	
	CONTRACTOR'S SHOP DRAWINGS AND RELATED SUBMITTALS (AS INDICATED BELOW) WITH  RESPECT TO THE ABILITY OF THE DETAILED WORK, WHEN COMPLETE, TO BE A PROPERLY  FUNCTIONING INTEGRAL ELEMENT OF THE OVERALL SYSTEM DESIGNED BY THE ENGINEER.  BEFORE SUBMITTING A SHOP DRAWING OR ANY RELATED MATERIAL TO THE ENGINEER,  CONTRACTOR SHALL: REVIEW EACH SUCH SUBMISSION FOR CONFORMANCE WITH THE MEANS,	ALL WIRING SHALL BE RUN IN EMT CONDUIT UNLESS OTHERWISE NOTED.  C. ALL CONDUIT SIZES STATED HEREIN OR MARKED ON THE DRAWINGS ARE MINIMUM SIZE AND SHALL BE NO LESS THAN 3/4" UNLESS OTHERWISE NOTED.	K. PLASTIC NAMEPLATES SHALL BE ATTACHED TO FACE OF ELECTRICAL DEVICE BY SHEETMETAL SCREWS. LOCATE PLATE SO WORDING READS HORIZONTALLY AND PLATE DOES NOT OBSTRUCT OTHER IDENTIFICATION PLATES, LATCHES OR OPERATORS.	SYSTEM (TEMPERATURE CONTROL) EQUIPMENT, DEVICES AND STARTERS FOR CONTROLLERS, FURNISHED AS PART OF PACKAGED EQUIPMENT; SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR EXCEPT AS OTHERWISE NOTED. MOTOR STARTERS SHALL BE RATED AT 25,000 AIC MINIMUM.	<u>5</u>
c	METHODS, TECHNIQUES, SEQUENCES, AND OPERATIONS OF CONSTRUCTION. AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF CONTRACTOR; APPROVE EACH SUCH SUBMISSION BEFORE SUBMITTING IT; AND SO STAMP EACH SUCH SUBMISSION BEFORE SUBMITTING IT. THE ENGINEER SHALL ASSUME THAT NO SHOP DRAWING OR RELATED SUBMITTAL COMPRISES A VARIATION UNLESS CONTRACTOR ADVISES ENGINEER OTHERWISE VIA A WRITTEN INSTRUMENT WHICH IS ACKNOWLEDGED BY	D. ALL CONDUIT SHALL BE SUBSTANTIALLY SUPPORTED BY PIPE STRAPS OR SUITABLE CLAMPS OR HANGERS ATTACHED TO THE ELEMENTS OF THE BUILDING STRUCTURE TO PROVIDE RIGID INSTALLATION; IN NO CASE SHALL CONDUIT BE ATTACHED OR SUPPORTED FROM ADJOINING PIPE OR INSTALLED IN SUCH A MANNER AS TO PREVENT THE READY REMOVAL OF OTHER PIPE FOR REPAIRS. "MINERALAC" TYPE SUPPORTS AND "UNISTRUT" TYPE ONE BOLT SUPPORTS WITH SQUARE ENDS SHALL NOT BE USED AT ANY LOCATION.	L. WHERE CIRCUIT BREAKERS OR FUSES ARE APPLIED IN COMPLIANCE WITH THE SERIES COMBINATION RATINGS MARKED ON THE EQUIPMENT BY THE MANUFACTURER, THE EQUIPMENT ENCLOSURE(S) SHALL BE LEGIBLY MARKED IN THE FIELD TO INDICATE THE EQUIPMENT HAS BEEN APPLIED WITH A SERIES COMBINATION RATING. THE MARKING SHALL BE READILY VISIBLE AND STATE "CAUTION - SERIES RATED SYSTEM."	D. INSTALL AND WIRE ALL MOTOR EQUIPMENT PER WIRING DIAGRAMS AND INSTRUCTION FURNISHED TO HIM, INCLUDING INTERLOCK WIRING BETWEEN EQUIPMENT.	C <b>S</b>
	ENGINEER IN WRITING. THE ITEMS, TYPES OF SUBMITTALS AND RELATED MATERIAL (IF ANY) CALLED FOR ARE INDICATED BELOW:		<u>GROUNDING</u>		ZAGE
	LIGHTING FIXTURES WIRING DEVICES	A. ALL CONDUCTORS SHALL BE STRANDED AND OF THE AWG SIZE AND TYPE SHOWN ON THE DRAWINGS. WHERE NO SIZE OR TYPE IS SHOWN, CONDUCTORS SHALL NOT BE LESS THAN #12 TYPE XHHW, THHN, OR THWN. ALL CONDUCTORS SHALL BE COPPER AND HAVE 600 VOLT INSULATION; BE UL LABELED AND OF AMERICAN MANUFACTURER.	A. ALL FEEDERS AND BRANCH CIRCUITS OVER 100 VOLTS SHALL INCLUDE A GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH NEC TABLE 250.122, EXCEPT NOT BE SMALLER THAN #12 FOR POWER AND LIGHTING CIRCUITS AND #14 FOR CONTROL CIRCUITS. ALL GROUND CONDUCTORS SHALL BE GREEN, OR AS SPECIFIED UNDER SECTION "WIRE AND CABLE."		IS GAF
	<ul> <li>E. GUARANTEES</li> <li>I. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEFECTS, REPAIRS AND</li> </ul>	B. ALL CONNECTIONS ARE TO BE MADE USING PRESSURE TYPE TERMINALS.	B. ALL GROUND CLAMPS SHALL BE PENN-UNION "GPL" TYPE OR SIMILAR BY O.Z. OR BURNDY.		
	REPLACEMENTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF SUBSTANTIAL COMPLETION AS DETERMINED BY THE OWNER'S REPRESENTATIVE. PRODUCT GUARANTEES GREATER THAN ONE (1) YEAR SHALL BE PASSED ALONG TO THE OWNER FOR FULL BENEFIT OF THE MANUFACTURER'S WARRANTY.	C. THE FOLLOWING COLOR CODE SHALL BE USED:  208 VOLT  PHASE A BLACK	C. CONDUIT FOR SOLITARY GROUND CONDUCTORS SHALL BE RIGID SCHEDULE 40 PVC NON-METALLIC ELECTRICAL CONDUIT WITH UL LABEL. SOLITARY GROUND CONDUCTORS SHALL NOT BE PLACED THROUGH METALLIC SLEEVES OR CONDUITS AND SHALL NOT BE COMPLETELY ENCIRCLED BY METALLIC HANGERS OR SUPPORTS.		NCE &
	WORK INCLUDED	PHASE B RED PHASE C BLUE NEUTRAL WHITE EQUIPMENT GROUND GREEN	D. THE GROUND CONDUCTOR SHALL BE CONNECTED TO THE NEUTRAL IN ONLY TWO LOCATIONS - ON THE SUPPLY SIDE OF THE SERVICE DISCONNECT MEANS PER NEC 250.24 AND ON SEPARATELY DERIVED SYSTEMS PER NEC 250.30.		ENA E
الا	A. INSTALLATION, MATERIALS, AND WORKMANSHIP	D. CONDUCTORS NO. 10 AWG OR SMALLER SHALL HAVE INSULATION COLORED AS NOTED ABOVE.	E. AT EACH RECEPTACLE BOX, THE GROUND CONDUCTOR SHALL ENTER AND CONNECT, WITH NORMAL WIRING CONNECTOR, TO: 1) THE GROUND PIGTAIL TO RECEPTACLE; 2) THE GROUND PIGTAIL TO BOX		
	6. FURNISH AND INSTALL ALL NECESSARY ANCHORS, SUPPORTS, STRAPS, BOXES, FITTINGS AND OTHER SIMILAR APPURTENANCES NOT INDICATED ON THE DRAWINGS BUT WHICH ARE REQUIRED FOR A COMPLETE AND PROPERLY INSTALLED SYSTEM CONSISTENT WITH THE ARCHITECTURAL TREATMENT OF THE BUILDING.	E. CONDUCTORS NO.8 AWG OR LARGER SHALL HAVE INSULATION COLORED AS NOTED ABOVE OR COLORED TAPE, MINIMUM SIZE 1/2", WRAPPED TWICE AROUND AT THE FOLLOWING POINTS:	GROUND SCREW; AND 3) THE OUTGOING GROUND CONDUCTOR TO NEXT DEVICE, IF NOT AT END OF RUN, METAL TO METAL CONTACT BETWEEN THE DEVICE YOKE AND THE OUTLET BOX IS NOT ACCEPTABLE AS A BOND FOR EITHER SURFACE MOUNTED BOXES OR FLUSH TYPE BOXES.		
	7. THE ELECTRICAL CONTRACTOR, INSOFAR AS THE WORK IS CONCERNED, SHALL AT ALL TIMES KEEP THE PREMISES IN A NEAT AND ORDERLY CONDITION, AND AT THE COMPLETION OF THE WORK, SHALL PROPERLY CLEAN UP AND CART AWAY DEBRIS AND EXCESS MATERIALS. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF DUMPSTER & REFUSE	<ol> <li>AT EACH TERMINAL.</li> <li>AT EACH CONDUIT ENTRANCE.</li> <li>AT INTERVALS NOT MORE THAN 12 INCHES APART.</li> <li>IN ALL BOXES, PANEL TUBS, SWITCHBOARDS, ETC.</li> </ol>	F. CONDUIT SYSTEM SHALL BE ELECTRICALLY CONTINUOUS. ALL LOCK NUTS SHALL CUT THROUGH ENAMELED OR PAINTED SURFACES ON ENCLOSURES, WHERE ENCLOSURES AND NON-CURRENT CARRYING METALS ARE ISOLATED FROM THE CONDUIT SYSTEM, USE BONDING JUMPERS WITH APPROVED CLAMPS. WHERE REDUCING WASHERS ARE USED AND WHERE CONCENTRIC OR ECCENTRIC KNOCKOUTS ARE NOT COMPLETELY REMOVED BONDING BUSHINGS SHALL BE REQUIRED.		UN E
	DISPOSAL AS REQUIRED FOR ELECTRICAL WORK.  8. ALL MATERIALS SHALL BE NEW AND UNDETERIORATED AND OF A QUALITY NOT LESS THAN THE	ALL BRANCH CIRCUITS SHALL BE MARKED IN THE PANELBOARD GUTTERS. MARKERS SHALL INDICATE CORRESPONDING BRANCH-CIRCUIT NUMBERS.  G. EACH BRANCH CIRCUIT REQUIRING A NEUTRAL SHALL BE FURNISHED WITH A SEPARATE INDIVIDUAL	LIGHTING FIXTURES		NO. DATE I
	MINIMUM SPECIFIED.  9. TEMPORARY WIRING AND LIGHTING SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC AND OSHA.	NEUTRAL CONDUCTOR.  BOXES AND PLATES	<ul> <li>A. CONTRACTOR SHALL FURNISH AND INSTALL LIGHTING FIXTURES AS INDICATED IN FIXTURE SCHEDULE SHOWN ON DRAWINGS, AND SPECIFIED HEREIN.</li> <li>B. LENS THICKNESS FOR FIXTURES SHALL BE 0.125 INCHES, MINIMUM (NOT NOMINAL) AND</li> </ul>		04/08/2022 PER CON
F	<ul> <li>B. COORDINATION OF PLANS AND SPECIFICATIONS</li> <li>1. CONTACT THE OWNER'S REPRESENTATIVE IMMEDIATELY IF THERE IS ANY QUESTIONS</li> </ul>	A. FURNISH AND INSTALL ALL OUTLET, JUNCTION, AND PULLBOXES AS INDICATED ON THE DRAWINGS AND AS NECESSARY TO INSTALL THE REQUIRED CONDUIT AND WIRING IN A NEAT AND WORKMANLIKE MANNER.	HAVE A MINIMUM WEIGHT OF 8.0 OUNCES PER SQUARE FOOT.  C. FLUSH FIXTURES MAY BE FURNISHED WITH PRE-WIRED FEATURE PROVIDED THEY ARE UL APPROVED FOR 75.C WIRING AND THE JUNCTION BOX CAPACITY IS SUFFICIENT FOR THE CIRCUIT WIRING		
-	REGARDING THE MEANING OR INTENT OF EITHER PLANS OR SPECIFICATIONS, OR UPON NOTICING ANY DISCREPANCIES OR OMISSIONS IN EITHER PLANS OR SPECIFICATIONS.  C. CUTTING AND PATCHING	B. PULLBOXES AND JUNCTION BOXES SHALL BE GALVANIZED AND OF THE CORRECT SIZE AND SIZE AND GAUGE, IN ACCORDANCE WITH CODE REQUIREMENTS AND SHALL BE UL LABELED.	REQUIREMENTS.  D. CLEARANCES FOR RECESSED PORTIONS OF FIXTURES FROM COMBUSTIBLE MATERIAL AND THERMAL INSULATION, SHALL BE IN ACCORDANCE WITH NEC ARTICLE 410.66.		
	PATCHING SHALL MATCH EXISTING SURFACES IN KIND AND FINISH AND SHALL BE DONE BY THE GENERAL CONTRACTOR AT THE ELECTRICAL CONTRACTOR'S EXPENSE.	C. FLUSH OUTLET, JUNCTION AND PULLBOXES SHALL BE PRESSED STEEL GALVANIZED OR SHERARDIZED AND SHALL BE A MINIMUM OF 4" SQUARE OR OCTAGONAL SIMILAR TO APPLETON #40. STEEL BOXES CAST IN CONCRETE SHALL BE DESIGNED FOR CONCRETE INSTALLATION.	E. ANY FIXTURES SCRATCHED, BENT, CRACKED OR IN ANY WAY DAMAGED BEFORE ACCEPTANCE BY OWNER SHALL BE REPLACED AT THIS CONTRACTOR'S EXPENSE.		
	2. REPAIR OF DAMAGES, BY THE ELECTRICAL CONTRACTOR, TO NEWLY PATCHED AND REFINISHED AREAS SHALL BE DONE BY THE GENERAL CONTRACTOR AT THE ELECTRICAL CONTRACTOR'S EXPENSE, TO MATCH EXISTING CONDITION.	<ul> <li>FLUSH WALL BOXES IN TILE, MARBLE, BRICK OR OTHER FINISHED MASONRY WALLS SHALL BE STEEL CITY GW-135-C SERIES OR RACO 695 SERIES.</li> <li>SWITCH PLATES ON FLUSH AND CAST BOXES SHALL BE SIERRA NOS. P-1, P-2, P-3 ETC., AS REQUIRED,</li> </ul>	F. ALL LIGHTING FIXTURES ARE TO BE CROUNDED ON THE INTERIOR OF THE FIXTURE HOUSING ON	E	
	3. WHERE REQUIRED TO MAINTAIN FIRE RATING, OPENINGS SHALL BE SEALED UTILIZING 3M BRAND FIRE BARRIER PENETRATION SEALING SYSTEMS. FIRE BARRIER OR FIRE STOP SYSTEMS FROM CROUSE-HINDS, THOMAS & BETTS OR DOW CORNING MAY BE USED AT CONTRACTOR'S OPTION.	AND SHALL BE MADE OF IVORY PLASTIC. COORDINATE ALL DEVICES AND COVER PLATE COLORS WITH ARCHITECT PRIOR TO PURCHASE.  DUPLEX RECEPTACLE PLATES ON FLUSH AND CAST BOXES SHALL BE SIERRA NO. P-8 IVORY PLASTIC.	G. ALL LIGHTING FIXTURES ARE TO BE GROUNDED ON THE INTERIOR OF THE FIXTURE HOUSING, ON CLEAN BARE METAL (FREE OF PAINT). BY USE OF A PIGTAIL AND FASTENED BY A SCREW USED FOR NO OTHER PURPOSE.		DATE 04
	THIS INCLUDES HOLES LEFT DUE TO REMOVAL OF EXISTING CONDUITS, BUS DUCT, ETC. OPENINGS SHALL BE TEMPORARILY FIRE STOPPED UNTIL PERMANENT FIRE STOPPING IS DONE.  D. CLEANING AND PAINTING	G. ALL BOXES SHALL BE RIGIDLY SUPPORTED FROM BUILDING STRUCTURE INDEPENDENT OF THE CONDUIT SYSTEM. BOXES CAST INTO MASONRY OR CONCRETE ARE CONSIDERED TO BE RIGIDLY SUPPORTED.			JOB NO. 20  DRAWN JN
F	ALL ELECTRICAL EQUIPMENT SHALL BE KEPT DRY AND CLEAN DURING THE CONSTRUCTION PERIOD. INTERIOR OF ALL ENCLOSURES SHALL BE CLEANED OF DIRT AND DEBRIS BEFORE INSTALLING TRIM OR COVERS.	WIRING DEVICES			CHECKED RL  COPYRIGHT © 2022 - A  TITLE
	2. ALL FINISHED SURFACES OF EQUIPMENT FURNISHED UNDER THIS CONTRACT SHALL BE THOROUGHLY CLEANED OF DIRT AND ALL SCRATCHED OR DAMAGED SURFACES SHALL BE TOUCHED UP WITH MATCHING MATERIALS BEFORE FINAL ACCEPTANCE OF THE WORK.	A. WIRING DEVICES SHALL BE FURNISHED IN STRICT ACCORDANCE WITH THE CATALOG NUMBERS AND MANUFACTURERS LISTED IN THE SCHEDULE WHICH FOLLOWS. OTHER SPECIAL PURPOSE DEVICES SHALL BE AS SPECIFIED ON THE DRAWINGS.			ELECTF SPECIFIC
	<ol> <li>WHEN ALL WORK IS COMPLETED AND ALL WORK HAS BEEN SATISFACTORILY TESTED AND ACCEPTED BY THE OWNER'S REPRESENTATIVE, ALL CONDUIT AND OTHER EXPOSED SURFACES SHALL BE THOROUGHLY CLEANED.</li> </ol>	<ul> <li>DUPLEX GROUNDING TYPE RECEPTACLE - 20 AMP, 125 VOLT - NEMA 5-20R:</li> <li>HUBBELL - 5362-1.</li> <li>ARROW HART - 5362-1.</li> </ul>			SHEET NO.
_ L					

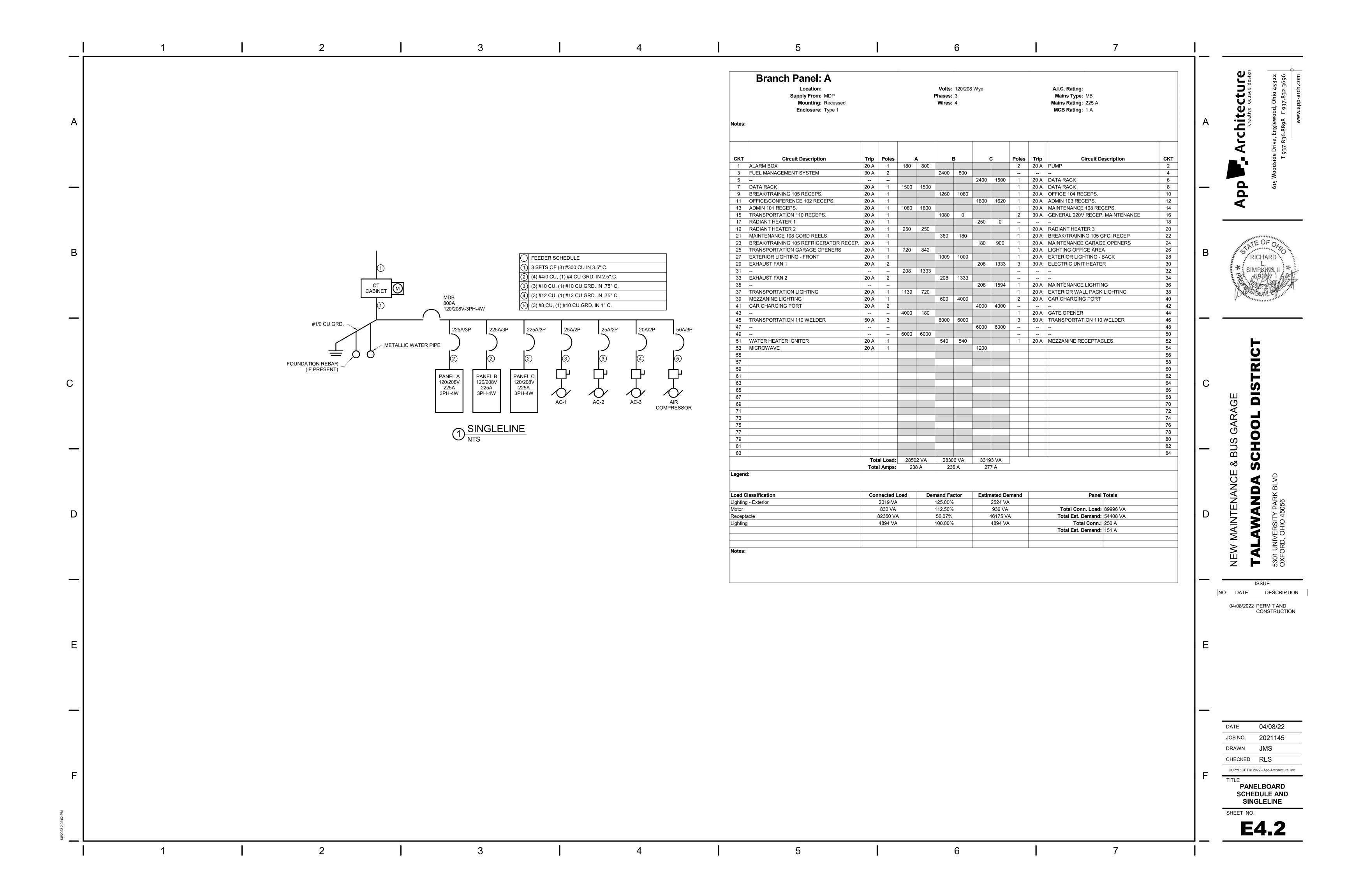












# NEW MAINTENANCE & BUS GARAGE TALAWANDA CITY SCHOOL DISTRICT

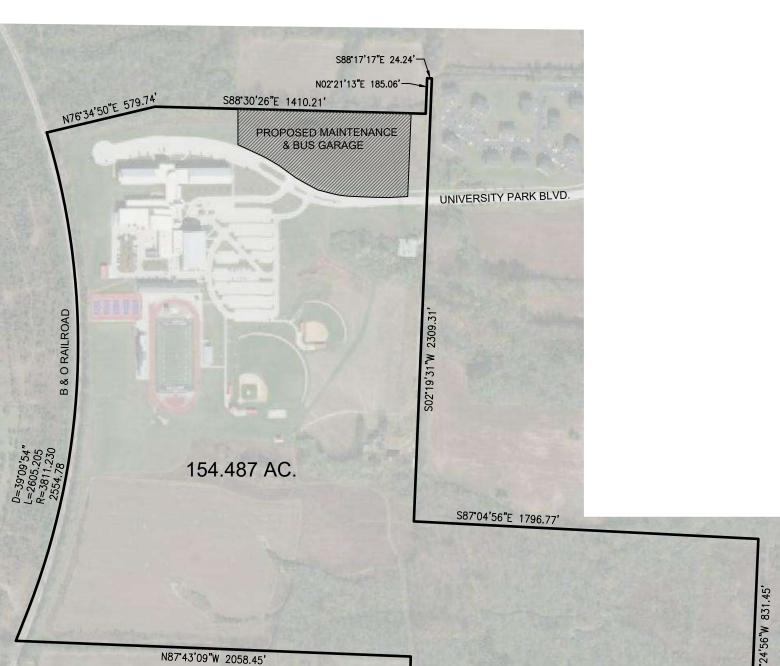
5301 UNIVERSITY PARK BLVD SECTION 35, TOWN 5, RANGE 1 CITY OF OXFORD BUTLER COUNTY, OHIO

## **SURVEYOR & ENGINEER**

110 S. COLLEGE AVENUE OXFORD, OHIO 45056

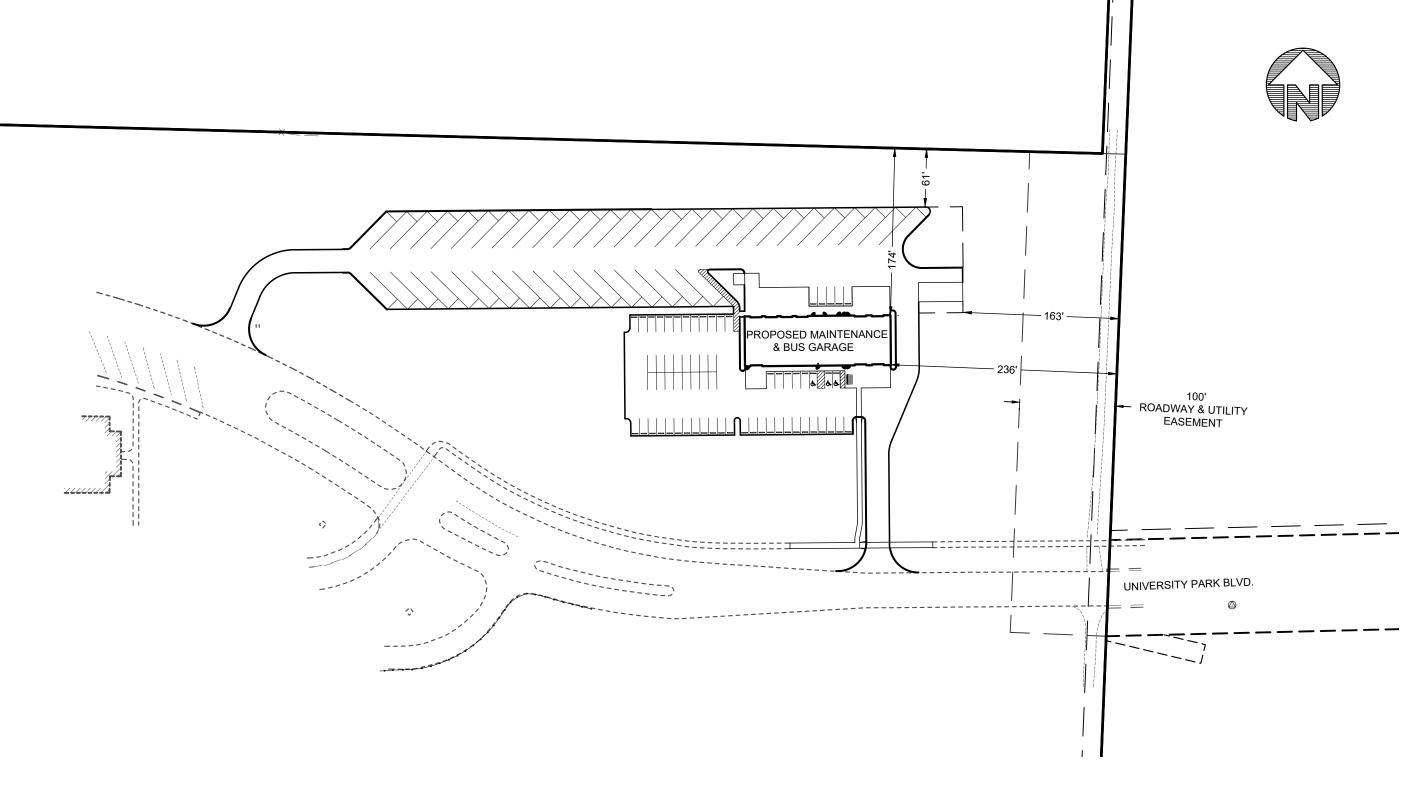
⊙ -Ex Sanitary M.H.	□ -Ex Tele. Box
	© −Ex Cable Box
☑ -Ex Storm Catch Basin	− Ex Sign
ズ −Ex Fire Hydrant	∘ −Ex Post
₩ −Ex Water Valve	→Ex Deciduous Tree
® −Ex Gas Marker	⊙ -Ex Deciduous Bush
	R/W —Ex Right of Way
	Found Conc. Mon.
■ -Ex Transformer	<ul><li>○ Found 5/8" Iron Pin (cap as noted)</li></ul>
Ex Undergro	ound Water Main
Ex Undergr	round Gas Main
Ex Overh	OH nead Utilities
———— UF ——— Ex Undergro	ound Fiber Optic
	ground Electric
	ound Telephone
	HPS
Ex Underground Hig	gh Pressure Steam Line
Ex	Treeline
Ex Maj	or Contour
Ex Min	or Contour

**LEGEND** 



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N87°40'28"W 1780.30'



## **INDEX OF SHEETS**

DRAWING NO.	DRAWING TITLE	ISSUE DATE	REVISION NO.	REVISION DATE
C100	TITLE SHEET	05-27-22		
C101	GENERAL NOTES	05-27-22		
C200	EXISTING CONDITIONS & DEMOLITION PLAN	05-27-22		
C300	SITE LAYOUT & UTILITY PLAN	05-27-22	1	08-03-22
C301	SITE DETAILS	05-27-22		
C302	UTILITY DETAILS	05-27-22	1	08-03-22
C400	SITE GRADING & EROSION CONTROL PLAN	05-27-22	1	08-03-22
C401	EROSION CONTROL NOTES & DETAILS	05-27-22		

## **CONTACTS**

**ELECTRIC** 

**DUKE ENERGY** 

1199 NILLES ROAD

ATTN: ALAN EAST

513-313-9220

FAIRFIELD, OHIO 45014

GLENWOOD ENERGY CITY OF OXFORD 5181 COLLEGE CORNER PIKE 15 S. COLLEGE AVE OXFORD, OHIO 45056 OXFORD, OHIO 45056 ATTN: KEITH SMITH ATTN: SCOTT OTTO, PE 513-523-2555

513-524-5208 **TELEPHONE FRONTIER** 6464 WESTBROOK ROAD CLAYTON, OHIO 45315 ATTN: CHUCK BERNACCHI 937-833-0468

**AREA MAP** 

1"=100 FT

SANITARY, WATER & STORM SEWER CABLE TV SPECTRUM 3691 TURNER ROAD CLAYTON, OHIO 45415 ATTN: TIM KUSS 937-425-8850

TALAWANDA SCHOOL DISTRICT 131 W. CHESTNUT STREET OXFORD, OHIO 45056 ATTN: BILL HUBBARD DIRECTOR OF DISTRICT FACILITIES 513-273-3132 HUBBARDB@TALAWANDA.ORG

### **GENERAL**

- ITEM NUMBERS REFER TO THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) CONSTRUCTION AND MATERIAL SPECIFICATIONS (2016) AND ALL CONSTRUCTION WORK SHALL BE DONE ACCORDING TO SAID SPECIFICATIONS AND IN ACCORDANCE WITH APPLICABLE STANDARDS OF THE GOVERNING AGENCIES. WHEN IN CONFLICT, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN
- THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND ELEVATIONS OF ALL EXISTING UTILITIES
- PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS. FORTY-EIGHT (48) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE
- CONTRACTOR AND OWNER SHALL VERIFY AND ACCEPT ALL QUANTITIES PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL VERIFY THAT COORDINATES, IF USED, MATCH PLAN DIMENSIONS. WHEN IN CONFLICT, THE PLAN DIMENSIONS SHALL GOVERN OVER COORDINATES, UNLESS OTHERWISE DIRECTED
- UNLESS OTHERWISE NOTED. ALL CONSTRUCTION DETAILS SHALL CONFORM WITH THE "STANDARD CONSTRUCTION DRAWINGS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION"
- EXISTING SITE SURVEY, TOPOGRAPHY, AND SUBSURFACE CONDITIONS: EXISTING CONDITIONS PRESENTED IN DRAWING, REPORT OR SPECIFICATION FORM ARE BELIEVED ACCURATE WITHIN NORMAL INDUSTRY TOLERANCES BUT ARE NOT GUARANTEED. INVESTIGATE, SURVEY, CONFIRM AND VERIFY ALL CONDITIONS BEARING ON THE WORK BY ANY MEANS NECESSARY BEFORE STARTING ANY WORK THAT CHANGES EXISTING CONDITIONS. REPORT ANY UNACCEPTABLE DISCREPANCIES TO THE ENGINEER IN WRITING BEFORE BEGINNING OPERATIONS
- 7.1. WRITTEN CLAIMS OF DIFFERENCE SHALL BE ACCOMPANIED BY SUBSTANTIATING EVIDENCE. CLAIMS OF DIFFERENCE SHALL BE RESOLVED, INCLUDING DETERMINATION OF QUANTITIES AND COSTS AND METHODS OF CONTRACT MODIFICATION, BEFORE WORK THAT ALTERS SUCH EXISTING CONDITIONS IS
- 7.2. INITIATION OF SITE-CLEARING, SOIL-MOVING OPERATIONS, DEMOLITION OR OTHER ACTIVITY THAT ALTERS EXISTING CONDITIONS SHALL BE EVIDENCE THAT CONTRACTOR HAS MADE ALL INVESTIGATIONS AND EVALUATIONS IT DEEMS NECESSARY AND HAS ACCEPTED ALL EXISTING CONDITIONS PRESENT WHETHER OR NOT THEY CONFORM EXACTLY TO THE DOCUMENTS.
- WITHOUT ADVANCE WRITTEN NOTIFICATION OF UNACCEPTABLE DISCREPANCY, NO CLAIM FOR EXTRA WILL BE CONSIDERED FOR A CLAIM OF DIFFERENCE BETWEEN DOCUMENTS AND ACTUAL CONDITIONS AFTER THE CONTRACTOR HAS ALTERED EXISTING CONDITIONS.
- WHERE CONNECTING TO EXISTING ASPHALT PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING EDGE OF PAVEMENT TO PROVIDE A CLEAN AND SOUND EDGE. ITEM 407 TACK COAT SHALL BE APPLIED TO THE ENTIRE CUT FACE OF THE EXISTING PAVEMENT PRIOR TO THE PLACEMENT OF THE
- PROPOSED PAVEMENT. PARKING LOT PAVEMENT MARKINGS SHALL CONFORM TO ITEM 641 PAVEMENT MARKINGS AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAVEMENT MARKING MATERIAL SHALL BE PER ITEM
- 642 TRAFFIC PAINT UNLESS OTHERWISE NOTED. 10. PARKING LOT STRIPING SHALL BE FOUR (4) INCHES WIDE WHITE HIGHWAY-TYPE STRIPING APPLIED IN
- ACCORDANCE WITH THE PLAN. 11. ALL DIMENSIONS AND PROPOSED ELEVATIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED
- 12. ALL RADII ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED. 13. ALL RADII ARE 4.5' UNLESS NOTED EXCEPT ROADWAY/DRIVEWAY INTERSECTIONS WHERE RADII ARE 15'
- UNLESS OTHERWISE NOTED. 14. SITE LIGHTING OPERATION HOURS: DUSK TO DAWN.

**DEMOLITION NOTES** 

- 15. CURB IN PARKING AREAS IS TYPE 6 UNLESS OTHERWISE NOTED.
- 16. PARKING STALLS ARE 9'x18' UNLESS OTHERWISE NOTED.
- 17. ALL SITE CONCRETE SHALL BE PER ODOT ITEM 499 CLASS C UNLESS OTHER WISE NOTED ON THE PLANS.
- 18. TAPER CURB HEIGHT FROM 6" TO 0" IN 5' AT ALL LOCATIONS PROPOSED CURB BEGINS AND ENDS.

### STORM SEWERS

- 1. ALL WORK AND MATERIALS ARE TO CONFORM TO THE 2010 EDITION OF ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS AND CITY OF OXFORD SPECIFICATIONS. WHEN IN CONFLICT, THE MORE STRINGENT REQUIREMENTS SHALL PREVAIL
- 2. STORM SEWER PIPES DESIGNATED AS "STM" SHALL MEET THE MATERIAL & INSTALLATION REQUIREMENTS OF ODOT ITEM 603. TYPE B CONDUITS AND AS FOLLOWS:
- 2.1. NON-REINFORCED CONCRETE PIPE PER ODOT SPECIFICATION 706.01
- 2.2. REINFORCED CONCRETE CIRCULAR PIPE PER ODOT SPECIFICATION 706.02
- PRECAST REINFORCED CONCRETE BOX SECTIONS PER ODOT SPECIFICATION 706.05 REINFORCED CONCRETE ELLIPTICAL CULVERT, STORM DRAIN, AND SEWER PIPE PER ODOT
- ALUMINIZED TYPE 2 CORRUGATED STEEL PIPE AND PIPE ARCHES WITH PAVED INVERT PER ODOT
- SPECIFICATIONS 707.01 OR 707.02
- CORRUGATED STEEL SPIRAL RIB CONDUITS PER ODOT SPECIFICATIONS 707.12
- 2.9. PIPE BEDDING AND TRENCH BACKFILL SHALL BE PER ODOT 603 AND STANDARD DRAWING DM-1.4 CONDUIT INSTALLATION. CONTRACTOR SHALL PROVIDE AN ALTERNATE BID ITEM TO PROVIDE
- STRUCTURAL BACKFILL FOR ALL TRENCHES TO PAVEMENT SUBGRADE.
- 4. ALL CATCH BASINS SHALL BE EQUIPPED WITH HEAVY DUTY, BICYCLE SAFE GRATES CAPABLE OF CARRYING AN HS-25 LOADING, UNLESS OTHERWISE NOTED.
- ANY EXISTING STORM SEWER CUT IN EXCAVATION WHICH DRAINS AN OFFSITE AREA MUST BE TIED INTO
- ALL CATCH BASINS IN THE PAVEMENT OR CURB ARE TO HAVE A MINIMUM OF TWO FOUR (4) INCH PERFORATED UNDERDRAINS EXTENDING TWENTY (20) LINEAR FEET FROM THE CATCH BASIN. UNDERDRAINS SHALL BE PLACED ONE ON EACH SIDE OF THE STORM SEWER AND AS NEAR TO PERPENDICULAR TO THE STORM SEWER AS IS PRACTICAL WITHOUT INTERFERING WITH STORM PIPES
- 7. AS THE INSTALLATION OF THE STORM SEWER PROGRESSES, EROSION CONTROL MEASURES SHALL BE
- ALL JOINTS SHALL BE SOIL SEAL JOINTS UNLESS SPECIFICALLY NOTED ON THE PLANS.
- 10. DEFLECTION TESTING FOR STORM SEWERS AND CULVERTS SHALL BE AS PER THE REQUIREMENTS OF THE CITY OF OXFORD.
- 11. STORM WATER AND EXTRANEOUS FLOWS ARE PROHIBITED FROM ENTERING THE EXISTING SYSTEM DURING CONSTRUCTION. NO OPEN CUT TRENCHES WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT STORM DRAINS, DIVERSION DITCHES, PUMPS ETC., SHALL BE USED AS REQUIRED TO MAINTAIN THE INTEGRITY OF THE SYSTEM AT ALL TIMES.
- 12. ALL CATCH BASINS WITH A DEPTH GREATER THAN 4.0 FT SHALL BE PROVIDED WITH STEPS. STEPS SHALL
- 13. ALL STORM SEWER SHALL HAVE A MAXIMUM MANNING'S ROUGHNESS COEFFICIENT OF 0.013.
- 14. ROOF DRAINS ARE TO BE PER ODOT 707.33, 707.42, OR 707.45.

- 1. THE TOPOGRAPHIC AND UTILITY INFORMATION SHOWN IS BASED ON A TOPOGRAPHIC SURVEY PREPARED BY BAYER BECKER, AND VARIOUS UTILITY PLANS PROVIDED BY THOSE GOVERNING
- AGENCIES. 2. THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLAN HAVE BEEN OBTAINED BY FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS AND DO NOT NECESSARILY REPRESENT ALL UNDERGROUND UTILITIES ADJACENT TO OR UPON THE PREMISES. THE ENGINEER DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS. THE CONTRACTOR SHALL VERIFY LOCATIONS WITH UTILITY COMPANIES BEFORE MAKING EXCAVATIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR
- VERIFYING ALL EXISTING UTILITY LOCATIONS WHETHER SHOWN ON THESE PLANS OR NOT APPROPRIATE UTILITY COMPANIES AND OHIO UTILITIES PROTECTION SERVICE (811) SHALL BE NOTIFIED AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO BREAKING GROUND FOR THE PURPOSE OF VERIFYING BY FIELD INSPECTION THE EXACT LOCATION OF THE UNDERGROUND UTILITY. UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ACCORDING TO AVAILABLE INFORMATION.
- THESE PLANS, AS PREPARED BY BAYER BECKER, DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE DEMOLITION/CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF BAYER BECKER'S REGISTERED PROFESSIONAL ENGINEER HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY U.S.
- OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA) AND/OR LOCAL REGULATIONS.. ALL CONTRACTORS INCLUDING BUT NOT LIMITED TO THE DEMOLITION. EXCAVATION. PAVING. PLUMBING ELECTRICAL, SIGN, FIRE PROTECTION, HVAC CONTRACTORS SHALL BE UNDER THE DIRECTION OF THE GENERAL CONTRACTOR OR OWNER WHO WILL BE HELD RESPONSIBLE FOR THE COORDINATION OF ALL WORK ON THIS PROJECT AND THE PROPER EXECUTION OF THE SAME.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. REMOVAL AND/OR RELOCATION OF ANY UTILITIES SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY AND SHALL BE DISCONNECTED PER THE ASSOCIATED UTILITY AGENCY'S
- REQUIREMENTS. 8. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES, FACILITIES, AND STRUCTURES THAT ARE INTENDED TO CONTINUE TO PROVIDE SERVICE WHETHER SHOWN ON THE PLANS OR NOT
- WHERE CONNECTING TO EXISTING PAVEMENT, THE CONTRACTOR SHALL SAWCUT THE EXISTING EDGE OF PAVEMENT TO PROVIDE A SOUND & CLEAN EDGE. THE CONTRACTOR SHALL APPLY ITEM 407 TACK COAT TO THE ENTIRE CUT FACE OF THE EXISTING PAVEMENT PRIOR TO THE PLACEMENT OF THE
- PROPOSED PAVEMENT. 10. THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES PRIOR TO DEMOLITION AND
- CONSTRUCTION. 11. AS SOON AS DEMOLITION WORK HAS BEEN OTHERWISE COMPLETED AND APPROVED BY THE OWNER, EARTHWORK MAY BEGIN. THE FINAL GRADE IN AREAS OUTSIDE THE CONSTRUCTION SITE SHALL BE SUCH AS TO PRESENT A NEAT, WELL-DRAINED APPEARANCE, AND TO PREVENT WATER FROM DRAINING UNNECESSARILY ONTO ADJACENT PROPERTIES.

## **GENERAL UTILITY**

- BACKFILL OF ALL UTILITY EXCAVATIONS IN STRUCTURAL AREAS INCLUDING UNDER PAVEMENTS OR WITHIN TEN (10) FEET OF ANY BUILDING AREAS SHOULD BE CONTINUALLY MONITORED BY A REPRESENTATIVE OF THE PROJECT GEOTECHNICAL ENGINEER TO VERIFY THAT PROPER LIFT THICKNESS, MOISTURE CONDITION, AND COMPACTIVE EFFORT ARE MAINTAINED.
- CONTRACTOR SHALL VERIFY ALL UTILITY AND CONDUIT SIZES AND LOCATIONS WITH THE ARCHITECTURAL MECHANICAL, AND STRUCTURAL DRAWINGS PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES. ALL BUILDING UTILITY SERVICES ARE TO BE STUBBED 5 FT. FROM THE BUILDING FOR CONNECTION BY
- INTERIOR CONTRACTOR. ALL UTILITY TRENCHES PROPOSED WITHIN THE LIMITS OF EXISTING PAVEMENT AND WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE BACKFILLED TO SUBGRADE WITH CONTROL DENSITY FILL TO A DISTANCE OF 5 FT BEYOND THE BACK OF CURB.
- THE CITY OF OXFORD DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE RELOCATION, REPAIR, OR REPLACEMENT OF ANY OTHER UTILITY INSTALLED WITHIN 5 FT OF THE CENTERLINE OF ANY SANITARY
- SEWER MAIN OR WATER MAIN. CONTRACTOR SHALL OBTAIN RIGHT OF WAY PERMIT FROM CITY OF OXFORD FOR ALL WORK PROPOSED WITHIN THE PUBLIC RIGHT OF WAY.

## SANITARY SEWERS

- 1. ALL WORK AND MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF OXFORD'S WATER AND SANITARY SEWER IMPROVEMENT SPECIFICATIONS AND BACKFLOW CROSS CONNECTION MANUAL. 2. ROOF DRAINS, FOUNDATION DRAINS, AND ALL OTHER CLEAN WATER CONNECTIONS TO THE SANITARY
- 4. NO BUILDING SHALL BE CONNECTED TO A SEWER LATERAL UNTIL THE BUILDING IS UNDER ROOF.
- 5. SANITARY SHALL BE A MINIMUM OF SDR 35 FOR DEPTHS LESS THAN 16 FEET AND SDR 26 FOR DEPTHS GREATER THAN OR EQUAL TO 16 FEET.
- SPECIFICATIONS OF THE CITY OF OXFORD'S WATER AND SANITARY SEWER IMPROVEMENT SPECIFICATIONS AND BACKFLOW CROSS CONNECTION MANUAL.
- 8. CROSSINGS: WHENEVER A SANITARY SEWER AND WATER MAIN MUST CROSS, THE SEWER SHALL BE AT SUCH AN PIPE WALLS, BELOW THE BOTTOM OF THE WATER MAIN. IF IT IS ABSOLUTELY IMPOSSIBLE TO MAINTAIN
- 8.1. A SEWER PASSING OVER OR UNDER THE WATER MAIN SHALL BE ENCASED OR CONSTRUCTED OF DISTANCE OF 10 FEET ON EACH SIDE OF THE WATER MAIN.
- THE SEWER CROSSING SHALL BE CONSTRUCTED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS.
- WHERE A WATER MAIN PASSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN.
- IN ADDITION, SAID BUILDING LEVEL SHALL BE AT LEAST 1 FT ABOVE THE LOWEST POINT OF FREE-OVERFLOW (NON-SEALED MANHOLE COVER) UPSTREAM OF ANY TREATMENT FACILITY OF WASTEWATER PUMPING FACILITY THAT RECEIVES THE DISCHARGE FROM SAID BUILDING. SAID MINIMUM SERVICE LEVELS SHALL BE RECORDED ON THE "AS-BUILT" PLANS FOR THE DEVELOPMENT WHICH WILL BE
- 11. PROVIDE THE CITY OF OXFORD WITH A FORTY-EIGHT (48) HOUR NOTICE PRIOR TO THE START OF ANY CONSTRUCTION, INCLUDING SANITARY INSTALLATION BY CALLING (513) 524-5206.
- PRIVATE AND THE RESPONSIBILITY OF THE PROPERTY OWNER TO MAINTAIN. THE CONNECTION TO THE SEWER MAIN WOULD BE ANY PIPING THAT EXTENDS OUT FROM THE MAIN BARREL OF THE SEWER MAIN.

## **WATER MAINS**

- 1. ALL WATER WORK AND WATER MAIN MATERIALS INCLUDING PIPE, FITTINGS, VALVES, HYDRANTS, AND INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF CITY OF OXFORD'S WATER AND SANITARY SEWER IMPROVEMENT SPECIFICATIONS AND BACKFLOW CROSS CONNECTIONS MANUAL
- ALL PUBLIC WATER MAIN MATERIALS, VALVES, FIRE HYDRANTS, FITTINGS, AND APPURTENANCES SHALL BE CLASS 53 DUCTILE IRON PER AWWA C-151.
- 4. PRIVATE MAINS AND APPURTENANCES SHALL MEET OR EXCEED THE REQUIREMENTS OF THE THE CITY OF
- OXFORD. 5. FIRE DEPARTMENT CONNECTION (STORTZ CONNECTION) SHALL BE WITHIN 75 FT. OF A PUBLIC FIRE
- HYDRANT OR A FIRE HYDRANT OFF OF THE MAIN BETWEEN THE PUBLIC MAIN AND THE METER PIT. 6. FIRE DEPARTMENT CONNECTION LINE SHALL TIE INTO THE FIRE SUPPRESSION SYSTEM ON THE BUILDING SIDE OF THE PUMP IF A PUMP IS INSTALLED.
- 7. NO PART OF ANY FIRE HYDRANT SETTING SHALL BE CLOSER THAN FIVE (5) FEET FROM ANY INLET, DRIVEWAY, PARKING LOT, UTILITY POLE, OR GUY WIRE ANCHOR.
- 8. WATER MAINS SHALL MAINTAIN A MINIMUM COVER OF FOUR (4) FEET. 9. ALL WATER MAIN VALVES SHALL HAVE A MINIMUM DEPTH OF 2.5 FT, AND MAXIMUM DEPTH OF 4.0 FT, FROM
- PROPOSED GRADE TO THE TOP OF THE VALVE OPERATING NUT. 10. A MINIMUM CLEAR DISTANCE OF TEN (10) FEET HORIZONTAL OR EIGHTEEN (18) INCHES VERTICAL SHALL
- BE MAINTAINED BETWEEN SANITARY AND/OR STORM SEWERS AND WATER MAINS. 11. SANITARY AND STORM SEWERS THAT CROSS WATER MAINS SHALL BE LOCATED SUCH THAT THE SEWER
- JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS. 12. ALL WATER MAINS SHALL BE PROVIDED WITH JOINT RESTRAINT AT ALL TEES, HORIZONTAL AND VERTICAL BENDS, ETC...WHETHER SHOWN ON THE PLAN VIEW OR NOT. JOINT RESTRAINT SHALL MEET THE
- SPECIFICATIONS AND BACKFLOW CROSS CONNECTION MANUAL. 13. SERVICE PIPING SMALLER THAN THREE (3) INCHES SHALL BE SEAMLESS COPPER FLEXIBLE WATER TUBING, ASTM B 88, TYPE K, PRESSURE CLASS 250.

REQUIREMENTS OF THE CITY OF OXFORD'S WATER AND SANITARY SEWER IMPROVEMENT

- 13.1. FITTINGS SHALL BE COMPRESSION STYLE FOR CTS TUBING, CONSULT GOVERNING AGENCY FOR A
- LISTING OF ACCEPTABLE MANUFACTURERS AND PRODUCTS. 13.2. COUPLINGS WITH SET SCREWS OR GRIP RINGS WILL NOT BE ACCEPTABLE
- 13.3. WATER SERVICE TUBING SHALL BE BEDDED SIX (6) INCHES ABOVE AND BELOW WITH SAND OR OTHER NON-COMPACTIBLE MATERIAL APPROVED BY THE GOVERNING AGENCY.
- 14. CITY OF OXFORD WATER DEPARTMENT SHALL ESTABLISH PROCEDURES FOR REPAIRS TO WATER MAIN OR WATER SERVICES DAMAGED. 15. ALL WATER METER PITS SHALL CONFORM TO THE MATERIALS AND SPECIFICATIONS OF THE GOVERNING
- AGENCY.
- 16. THE FOLLOWING ITEMS ARE TO BE APPROVED BY THE FIRE DEPARTMENT: 16.1. INSTALLATION OF ALL UNDERGROUND FIRE SUPPRESSION LINES ARE TO BE INSPECTED BY THE FIRE DEPARTMENT; INSTALLERS ARE REQUIRED TO BE LICENSED BY THE OHIO FIRE MARSHALL.
- 16.2. WATER SUPPLY AND CONNECTIONS TO THE SUPPLY. 16.3. PRESSURE REGULATORS OR METERS ON THE WATER SUPPLY LINES.
- 16.4. LOCATION AND/OR OMISSION OF FIRE DEPARTMENT CONNECTIONS.
- 16.5. FIRE DEPARTMENT CONNECTION HOSE CONNECTION THREADS (CAPS ALSO REQUIRED)
- 16.6. USE OF CONTROL VALVES IN WATER SUPPLY OTHER THAN INDICATING VALVES. SIZE AND LOCATION OF VALVE PITS; USE OF BURIED VALVES OR PITS.
- 16.8. LOCATION AND IDENTIFICATION OF SECTION VALVES IN UNDERGROUND WATER SUPPLIES.
- 16.9. TYPE, ARRANGEMENT, LOCATION, IDENTIFICATION, THREADS, PROTECTION OF ALL HYDRANTS
- 16.10. UNDERGROUND PIPING INSTALLATION METHODS AND PROCEDURES 16.11. HYDROSTATIC TESTING OF UNDERGROUND SYSTEMS; FIRE DEPT. MUST BE CALLED TO WITNESS TESTING; PROVIDE COPY OF CONTRACTOR'S MATERIAL & TEST CERTIFICATE FOR UNDERGROUND
- SYSTEM. AMOUNT OF PIPE LEAKAGE TO BE ACCEPTABLE TO FIRE DEPT. 16.12. FLUSHING OF UNDERGROUND SYSTEM TO BE WITNESSED BY FIRE DEPT.

FOR GAS ENGINEERING NOTIFICATION, AGREEMENTS AND OFFICIAL CORRESPONDENCE RELATED TO

THE GAS MAIN INFORMATION PROVIDED SHOWS THE APPROXIMATE LOCATIONS AND DEPTHS OF COVER

AND IS PROVIDED TO COMPLY WITH STATUTORY REGULATIONS. THIS INFORMATION SHOULD BE USED

ALL GAS MAIN DEPTHS OF COVER IF NOTED ARE APPROXIMATE DEPTHS OF COVER RECORDED AT THE

WILL CAUSE THE EXISTING DEPTHS OF COVER TO BE DIFFERENT. EXTREME CARE MUST BE TAKEN TO

ENSURE SAFE EXCAVATION WHEN APPROACHING KNOWN OR SUSPECTED GAS FACILITIES.

GAS SERVICE SHALL MEET THE REQUIREMENTS OF THE UTILITY PROVIDER.

FOR ADDITIONAL GAS FACILITY RECORD INFORMATION, CALL 513-523-2555.

GAS FACILITIES ARE TO BE KEPT IN SERVICE AT ALL TIMES.

TIME OF INSTALLATION. ANY RESULTING GRADE CHANGES SINCE THE TIME OF THE MAIN INSTALLATION

TO COMPLY WITH FEDERAL AND STATE REGULATIONS CONCERNING DAMAGE PREVENTION PROGRAMS,

THE UTILITY COMPANIES MUST BE CONTACTED AT LEAST 48 HOURS (2 WORKING DAYS) PRIOR TO

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO GAS FACILITIES DURING OR AS A

ADJUSTMENTS, RELOCATIONS AND/OR REPAIRS WILL BE MADE AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL SHEET AND SHORE ALL EXCAVATIONS AS REQUIRED TO CONTINUOUSLY

10. CROSSING BURIED GAS FACILITIES WITH HEAVY CONSTRUCTION EQUIPMENT MAY CAUSE DAMAGE TO

FACILITIES AND PERFORMED ANY MAINTENANCE AND/OR ADJUSTMENTS THAT MAY BE REQUIRED.

DAMAGE WHICH MAY HAVE OCCURRED TO PLASTIC GAS MAINS, SUCH AS CRIMPS OR GOUGES.

13. WHEN CAST IRON OR SIMILAR GAS FACILITIES ARE EXPOSED OR INTERFERED WITH BY THE

APPROVED BEFORE ANY WORK MAY BEGIN WITHIN THE UTILITY OWNER'S EASEMENTS.

18. CUTS AND FILLS ARE GENERALLY NOT PERMITTED WITHIN THE EASEMENTS. SOME FILLS MAY BE

AN AMOUNT WHICH WILL ALLOW THE UTILITY OWNERS TO PROPERLY MAINTAIN ITS FACILITIES. 19. PERPENDICULAR UTILITY CROSSINGS OF GAS EASEMENTS ARE ACCEPTABLE, PROVIDED PROPER CLEARANCES ARE MAINTAINED. PARALLEL INSTALLATIONS ARE NORMALLY NOT ALLOWED.

20. GAS FACILITIES SHOWN ON THIS PLAN ARE TO BE INSTALLED BY GLENWOOD ENERGY CONTRACTOR COORDINATE ALL CONDUIT TRENCHING ACTIVITIES WITH GLENWOOD ENERGY REPRESENTATIVE.

17. NO PERMANENT STRUCTURES MAY BE BUILT WITHIN THE EASEMENTS.

12. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING ANY DAMAGE TO EXISTING GAS FACILITIES. THIS

THE GAS FACILITIES. CONTACT THE GAS ENGINEERING DEPARTMENT FOR DETAILS ON HOW TO PROTECT

11. THE CONTRACTOR SHALL NOT BACKFILL EXPOSED GAS FACILITIES UNTIL THE UTILITY HAS INSPECTED ITS

INCLUDES PROTECTION OF COATINGS AND WRAPPINGS ON STEEL GAS MAINS. IT ALSO INCLUDES ANY

CONTRACTOR, REPLACEMENT OR REINFORCEMENT BY THE UTILITY OWNER MAY BE REQUIRED AT THE

CONTRACTOR'S EXPENSE. BACKFILL WITH CONTROL LOW STRENGTH MATERIAL WILL BE REQUIRED.

14. BLASTING OR OTHER CONSTRUCTION PROCEDURES WHICH MAY TRANSMIT LOADS OR VIBRATIONS IN

THE VICINITY OF GAS FACILITIES MUST BE APPROVED BY THE GAS ENGINEERING DEPARTMENT. A

BLASTING PLAN, IDENTIFYING ALL PERTINENT INFORMATION, MUST BE SUBMITTED IN WRITING BY A

MUST BE SUBMITTED TO THE GAS ENGINEERING DEPARTMENT FOR REVIEW. THESE PLANS MUST BE

16. SPECIFIED EASEMENT WIDTHS MUST BE MAINTAINED IN ORDER FOR THE UTILITY PROVIDER TO PROTECT

ALLOWED, AND WILL BE REVIEWED ON AN INDIVIDUAL BASIS. ANY PERMITTED FILLS WILL BE LIMITED TO

15. PROPOSED DEVELOPMENT PLANS AROUND AND NEAR GAS FACILITIES WITHIN PRIVATE EASEMENTS

EXCAVATION BY CALLING THE OHIO UTILITIES PROTECTION SERVICE (OUPS), TOLL FREE AT 811.

RESULT OF THE CONTRACTOR'S CONSTRUCTION. ALL DAMAGE TO GAS FACILITIES REQUIRING

16.13. HYDRANT OPERATING TEST TO BE WITNESSED BY FIRE DEPT.

GAS FACILITIES AND SERVICES

GLENWOOD ENERGY, ADDRESS TO:

ONLY FOR PLANNING, NOT CONSTRUCTION.

THE GAS FACILITIES FROM DAMAGE.

BLASTING EXPERT PRIOR TO ANY WORK.

ITS FACILITIES.

5181 COLLEGE CORNER PIKE

OXFORD, OHIO 45056

KEITH SMITH

513-523-2555

## **GRADING NOTES**

- A. ITEM NUMBERS REFER TO THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) CONSTRUCTION AND MATERIAL SPECIFICATIONS (2018) AND ALL CONSTRUCTION WORK SHALL BE DONE ACCORDING TO SAID SPECIFICATIONS AND IN ACCORDANCE WITH APPLICABLE STANDARDS OF THE GOVERNING AGENCIES. WHEN IN CONFLICT, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN.
- B. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS.
- C. FORTY-EIGHT (48) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE OHIO UTILITY PROTECTION SERVICE (OUPS) AND ALL OTHER AGENCIES WHICH MAY HAVE UNDERGROUND UTILITIES INVOLVED IN THIS PROJECT AND ARE NOT MEMBERS OF OHIO UNDERGROUND PROTECTION, INC.
- D. CONTRACTOR AND OWNER SHALL VERIFY AND ACCEPT ALL QUANTITIES PRIOR TO BEGINNING CONSTRUCTION.
- E. CONTRACTOR SHALL VERIFY THAT COORDINATES, IF USED, MATCH PLAN DIMENSIONS. WHEN IN CONFLICT, THE PLAN DIMENSIONS SHALL GOVERN OVER COORDINATES, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- F. UNLESS OTHERWISE NOTED, ALL CONSTRUCTION DETAILS SHALL CONFORM WITH THE "STANDARD CONSTRUCTION DRAWINGS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION".
- G. EXISTING SITE SURVEY, TOPOGRAPHY, AND SUBSURFACE CONDITIONS: EXISTING CONDITIONS PRESENTED IN DRAWING, REPORT OR SPECIFICATION FORM ARE BELIEVED ACCURATE WITHIN NORMAL INDUSTRY TOLERANCES BUT ARE NOT GUARANTEED. INVESTIGATE, SURVEY, CONFIRM AND VERIFY ALL CONDITIONS BEARING ON THE WORK BY ANY MEANS NECESSARY BEFORE STARTING ANY WORK THAT CHANGES EXISTING CONDITIONS. REPORT ANY UNACCEPTABLE DISCREPANCIES
- TO THE ENGINEER IN WRITING BEFORE BEGINNING OPERATIONS G.A. WRITTEN CLAIMS OF DIFFERENCE SHALL BE ACCOMPANIED BY SUBSTANTIATING EVIDENCE. CLAIMS OF DIFFERENCE SHALL BE RESOLVED, INCLUDING DETERMINATION OF QUANTITIES AND COSTS AND METHODS OF CONTRACT MODIFICATION, BEFORE WORK THAT ALTERS SUCH EXISTING CONDITIONS IS STARTED.
- INITIATION OF SITE-CLEARING, SOIL-MOVING OPERATIONS, DEMOLITION OR OTHER ACTIVITY THAT ALTERS EXISTING CONDITIONS SHALL BE EVIDENCE THAT CONTRACTOR HAS MADE ALL INVESTIGATIONS AND EVALUATIONS IT DEEMS NECESSARY AND HAS ACCEPTED ALL EXISTING CONDITIONS PRESENT WHETHER OR NOT THEY CONFORM EXACTLY TO THE DOCUMENTS.
- WITHOUT ADVANCE WRITTEN NOTIFICATION OF UNACCEPTABLE DISCREPANCY, NO CLAIM FOR EXTRA WILL BE CONSIDERED FOR A CLAIM OF DIFFERENCE BETWEEN DOCUMENTS AND ACTUAL CONDITIONS AFTER THE CONTRACTOR HAS ALTERED EXISTING CONDITIONS.
- H. BACKFILL OF ALL UTILITY EXCAVATIONS IN STRUCTURAL AREAS INCLUDING UNDER PAVEMENTS OR WITHIN TEN (10) FEET OF ANY BUILDING AREAS SHOULD BE CONTINUALLY MONITORED BY A REPRESENTATIVE OF THE PROJECT GEOTECHNICAL ENGINEER TO VERIFY AND DOCUMENT THAT PROPER LIFT THICKNESS, MOISTURE CONDITION, AND COMPACTIVE EFFORT ARE MAINTAINED. THE GRADING PLAN IS TO BE USED FOR GRADING PURPOSES ONLY.
- SPOT ELEVATIONS REPRESENT FINISH PAVEMENT GRADE. SUBGRADE OF THE BUILDING PAD VARIES BETWEEN 9" AND 12" BELOW FINISH FLOOR. CONTRACTOR SHALL REVIEW THE FOUNDATION PLAN TO DETERMINE BUILDING SUBGRADE ELEVATIONS.
- J. CONTRACTOR AND OWNER SHALL AGREE TO ALL EXCAVATION AND EMBANKMENT QUANTITIES PRIOR TO CONSTRUCTION.
- K. CONTRACTOR SHALL REMOVE ALL TREES AND CLEAN ALL AREAS AS DETERMINED BY THE ENGINEER OR ARCHITECT TO PERFORM ALL GRADING AND UTILITY WORK IN ACCORDANCE WITH THE DRAWINGS, GENERAL NOTES, AND PROJECT SPECIFICATIONS. RESERVE MULCH FOR SOIL EROSION MULCHING AS NECESSARY.
- THE PROJECT HAS BEEN DESIGNED TO CONTROL EROSION AND PREVENT DAMAGE TO OTHER PROPERTY. ALL STRIPPING, EARTHWORK, AND REGRADING SHALL BE PERFORMED TO MINIMIZE EROSION. NATURAL VEGETATION SHALL BE RETAINED WHEREVER POSSIBLE. THE PROPOSED PLAN WILL ALLOW MOST ERODED MATERIALS TO BE RETAINED ON SITE.
- M. GEOTECHNICAL REPORT HAS BEEN COMPLETED FOR THIS SITE BY PROFESSIONAL SERVICE INDUSTRIES. COPIES OF THIS REPORT ARE AVAILABLE FROM THE OWNER'S REPRESENTATIVE.
- N. CONTRACTOR SHALL OBTAIN A COPY OF THE COMPLETE GEOTECHNICAL REPORT PRIOR TO
- O. CONTRACTOR SHALL SETUP AN ONSITE PRE-CONSTRUCTION MEETING WITH OWNER, PROJECT GEOTECHNICAL ENGINEER, EARTHWORK CONTRACTOR, AND SITE CIVIL ENGINEER PRIOR TO BEGINNING CONSTRUCTION.
- P. ALL EARTHWORK AND CONSTRUCTION ACTIVITY SHALL BE PERFORMED PER THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEER AS DESCRIBED IN THE GEOTECHNICAL EXPLORATION REPORT AND ALL ADDENDUMS AND/OR THE PROJECT SPECIFICATIONS. WHEN IN CONFLICT THE MORE STRINGENT REQUIREMENTS SHALL PREVAIL.
- Q. BUILDING PAD PREPARATION SHALL BE MADE IN ACCORDANCE WITH GEOTECHNICAL ENGINEER'S, STRUCTURAL ENGINEER'S. AND ARCHITECT'S RECOMMENDATIONS. BUILDING DIMENSIONS SHALL BE VERIFIED WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO CONSTRUCTION.
- R. ANY AREAS THAT APPEAR AS FUTURE BUILDING OR PARKING LOTS SHALL BE GRADED TO DRAIN TO THE NEAREST SWALE, CATCH BASIN, OR OTHER DRAINAGE FEATURE. IF NECESSARY, CONTRACTOR SHALL CONSTRUCT TEMPORARY FACILITIES TO DRAIN THESE AREAS TO THE NEAREST DRAINAGE FEATURE. THE FUTURE BUILDING PADS SHOULD BE LEFT HIGH TO ACCOUNT FOR DRAINAGE ACROSS THE PAD 0.5% MIN.

CONSTRUCTION AREAS AND WASTED OR STOCKPILED. AN AVERAGE TOPSOIL THICKNESS OF 3"

WAS USED BY THE ENGINEER WHEN DEVELOPING THESE PLANS. ACTUAL TOPSOIL THICKNESS MAY VARY ACROSS THE AND THE EXACT DEPTH OF STRIPPING SHOULD BE DETERMINED BY A REPRESENTATIVE OF THE PROJECT GEOTECHNICAL ENGINEER IN THE FIELD AT THE TIME OF THE STRIPPING OPERATIONS. AFTER STRIPPING OF THE TOPSOIL HAS BEEN PERFORMED, THE EXPOSED SUBGRADE SHALL BE

PROOFROLLED WITH APPROVED EQUIPMENT TO IDENTIFY POCKETS OF SOFT UNSUITABLE

MATERIALS. UNDER THE DIRECTION OF THE PROJECT GEOTECHNICAL ENGINEER, UNSUITABLE

EXCESSIVELY ORGANIC TOPSOIL AND LOOSE MATERIALS SHALL BE STRIPPED FROM THE

- MATERIALS SHOULD BE REMOVED AND REPLACED WITH A WELL-COMPACTED MATERIAL. SUPPORT GAS FACILITIES WITHIN THE ZONE OF INFLUENCE (AS DETERMINED BY THE NATURAL ANGLE OF U. THE LAST 12" OF ALL FILLS OUTSIDE OF PAVEMENT AND BUILDING AREAS SHALL BE TOPSOIL UNLESS OTHERWISE NOTED. ALL TOPSOIL FILLS SHALL BE BENCHED OR KNIT INTO FILL SLOPES AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
  - V. SEE LANDSCAPE PLANS FOR SEED MIXTURES TO BE USED THE GRADED AREAS.
  - W. THE CITY OF OXFORD REQUIRES AN AS-BUILT VOLUME CERTIFICATION OF ALL DETENTION/RETENTION BASINS. CONTRACTOR SHOULD CONTACT THE SITE CIVIL ENGINEER TO PERFORM AS-BUILT VOLUME CERTIFICATION PRIOR TO FINAL GRADING AND SEEDING OF BASINS.

GAI 50 AN

# OHIO UTILITY PROTECTION SERVICE (OUPS) AND ALL OTHER AGENCIES WHICH MAY HAVE UNDERGROUND

2.3. UTILITIES INVOLVED IN THIS PROJECT AND ARE NOT MEMBERS OF OHIO UNDERGROUND PROTECTION,

CORRUGATED POLYETHYLENE SMOOTH LINED PIPE PER ODOT SPECIFICATION 707.33 2.8. POLYVINYL CHLORIDE PROFILE WALL PIPE PER ODOT SPECIFICATION 707.42

ALL STORM STRUCTURES ARE ODOT TYPES UNLESS OTHERWISE INDICATED.

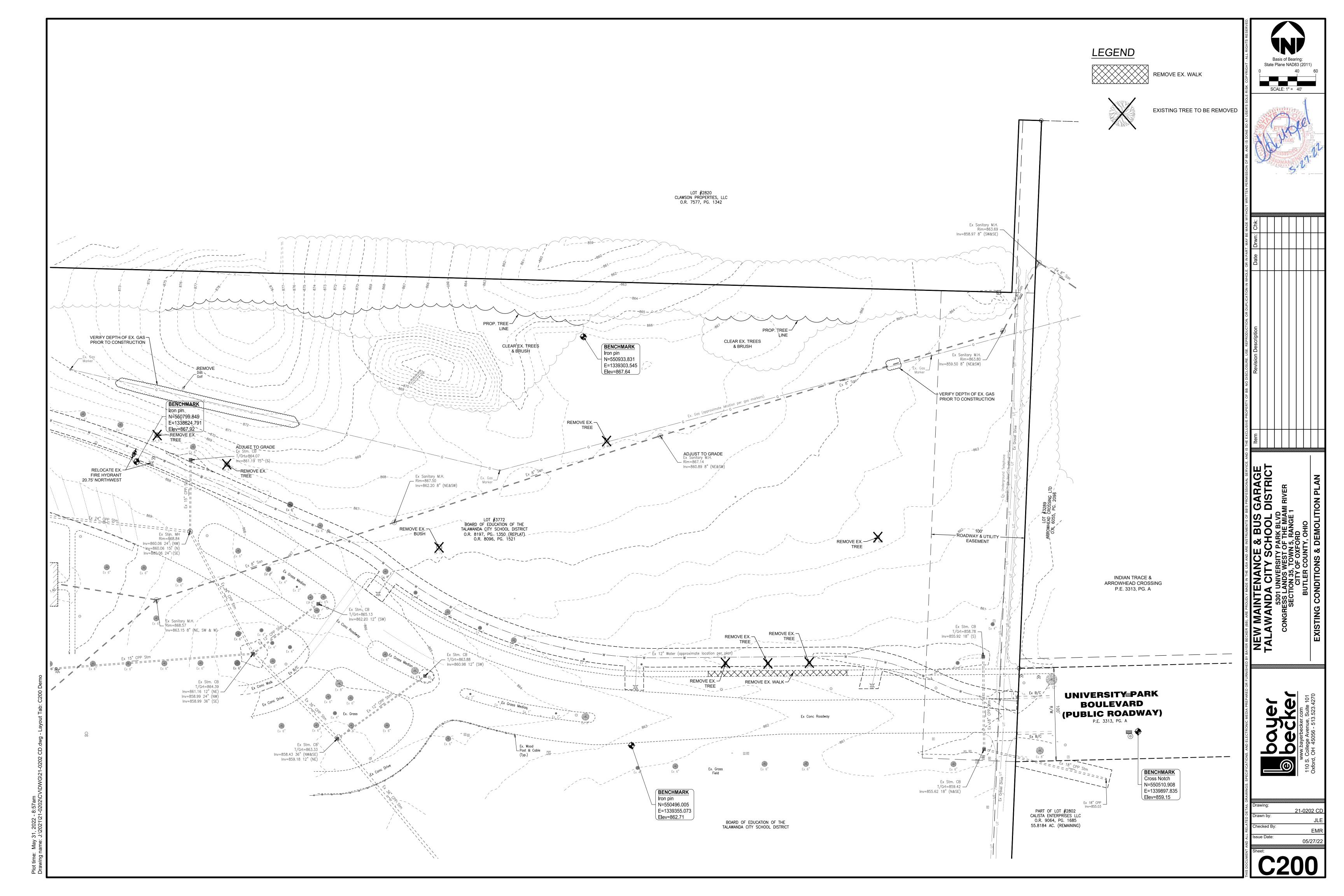
THE STORM SEWER SYSTEM.

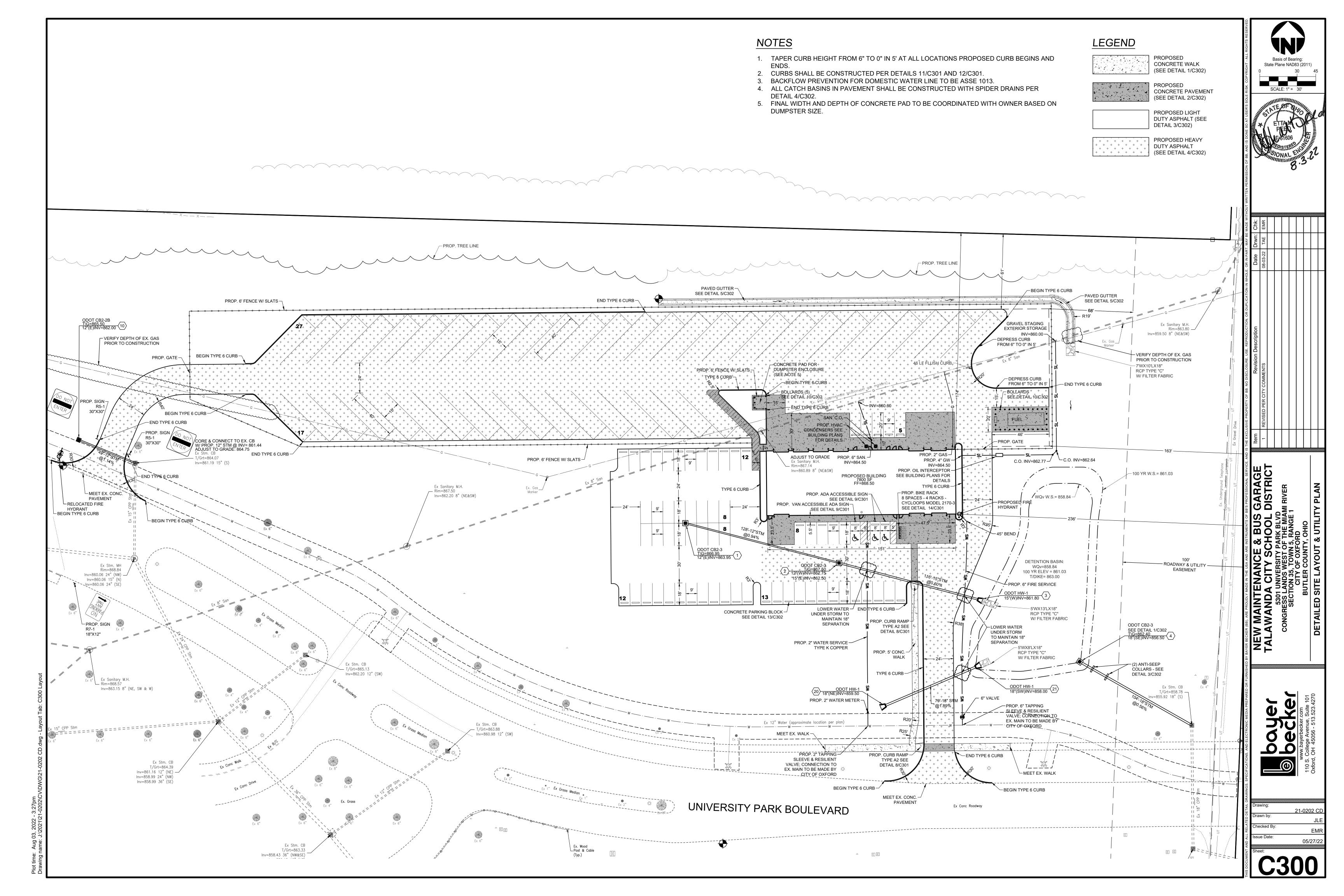
SHOWN ON THE PLANS. SEE PAVEMENT UNDERDRAIN DETAIL 4/C302.

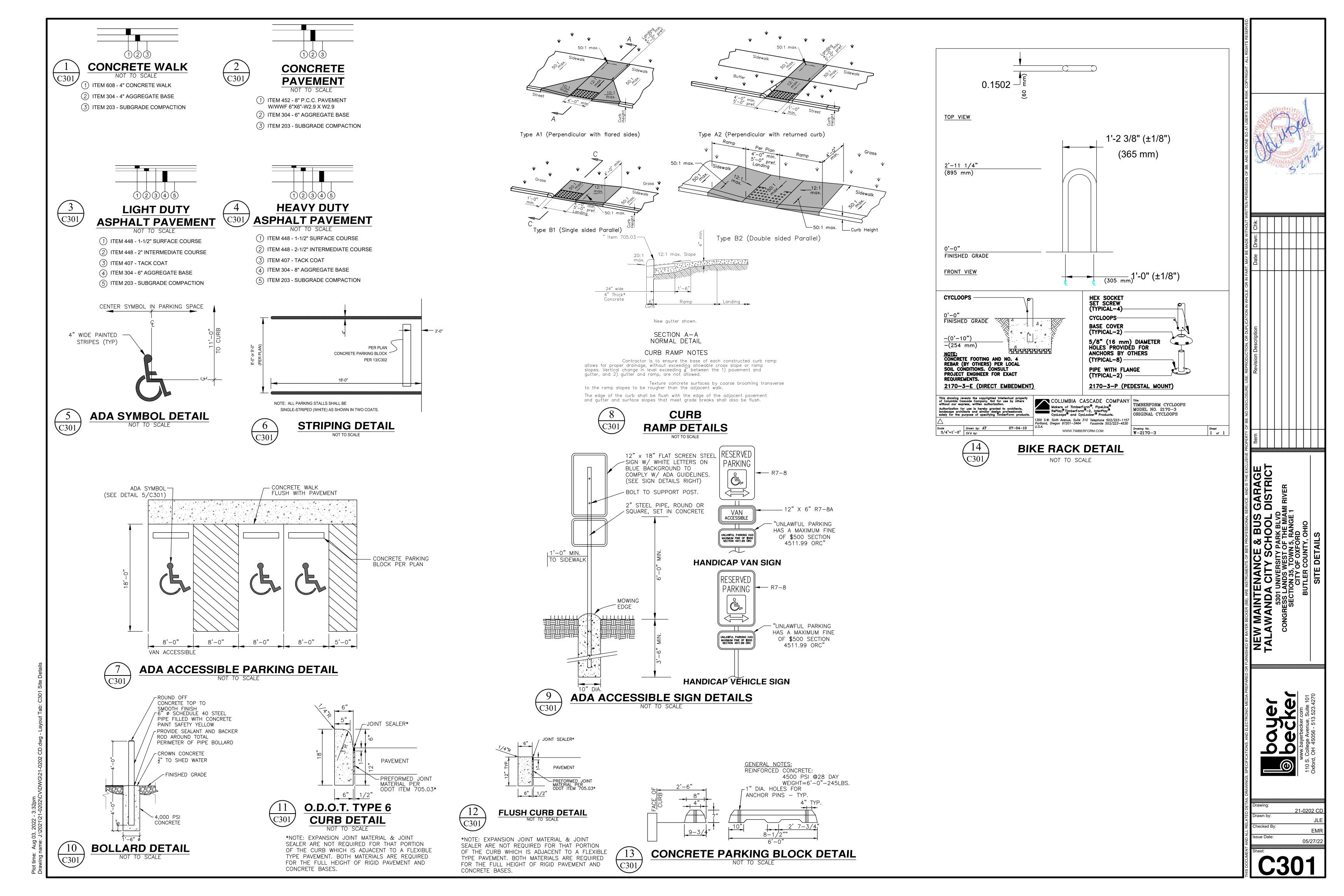
PLACED AT INLET AND OUTLET OF SEWERS TO CONTROL THE SILT SUMP LINE CONDUITS ARE TO BE SDR 35, ARMCO 2000, OR EQUIVALENT

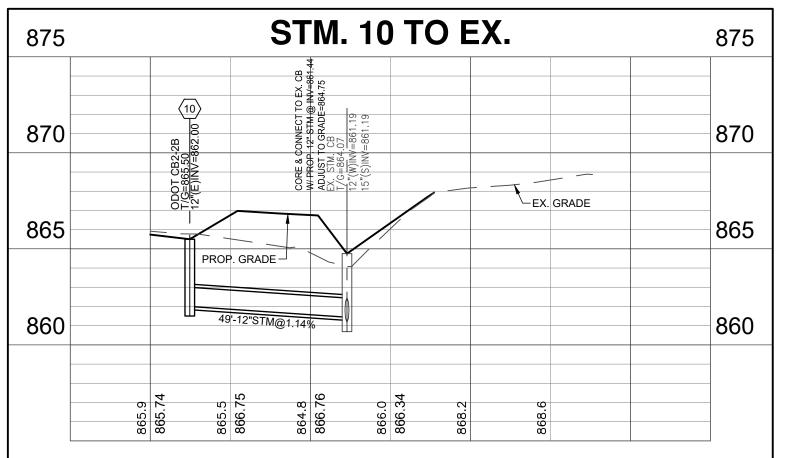
MEET THE REQUIREMENTS OF ODOT STANDARD 604.

- SEWER SYSTEM ARE PROHIBITED.
- 6. ALL SANITARY SEWER MANHOLES, CASTINGS, PIPE, ETC., SHALL CONFORM WITH CURRENT
- 7. SANITARY SEWER MATERIALS AND INSTALLATION TO BE AS PER THE CITY OF OXFORD'S WATER AND SANITARY SEWER IMPROVEMENT SPECIFICATIONS AND BACKFLOW CROSS CONNECTION MANUAL
- ELEVATION THAT THE CROWN OF THE SEWER IS AT LEAST 18 INCHES MEASURED BETWEEN THE OUTSIDE THE 18 INCH VERTICAL SEPARATION, THE WATER MAIN SHALL BE RELOCATED OR THE SEWER SHALL BE
- CONSTRUCTED AS FOLLOWS: MATERIALS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION FOR A MINIMUM
- 9. ALL BUILDINGS TO BE SERVED BY THE PUBLIC SEWER SYSTEM SHALL BE CONSTRUCTED SO AS TO PROVIDE A MINIMUM OF 4 FT OF VERTICAL SEPARATION BETWEEN THE PUBLIC SANITARY SEWER AT THE POINT OF CONNECTION AND THE LOWEST BUILDING LEVEL SERVED BY A GRAVITY SEWER CONNECTION.
- KEPT ON FILE IN THE OFFICE OF THE THE CITY OF OXFORD. 10. (NOT USED)
- 12. SANITARY SEWER LATERALS, WHICH SHALL INCLUDE ALL PIPE AND APPURTENANCES FROM THE BUILDING TO THE PUBLIC SEWER MAIN, AND THE CONNECTION TO THE PUBLIC SEWER MAIN SHALL BE CONSIDERED

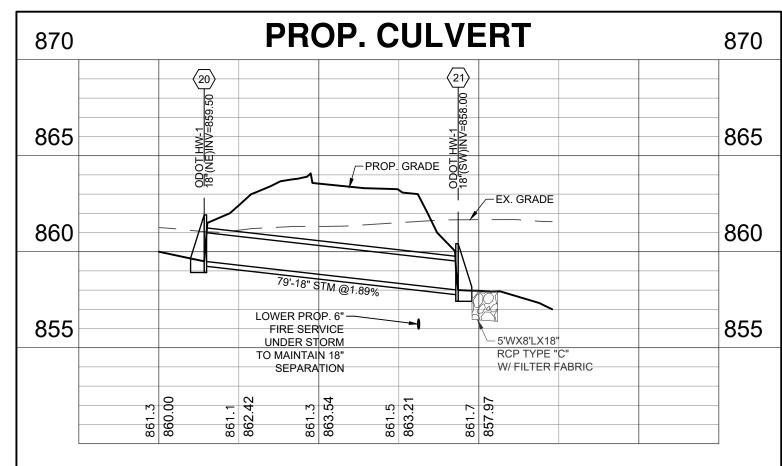


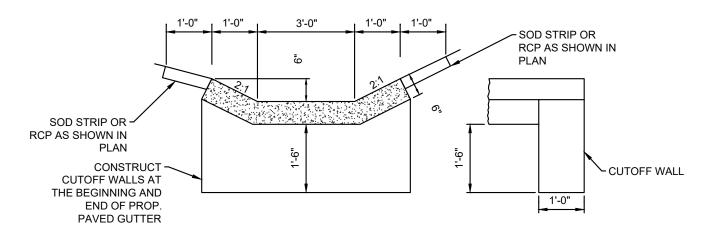






 $\frac{5}{\text{C302}}$ 

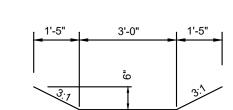




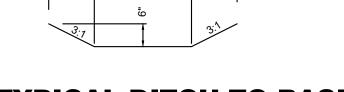
**PAVED GUTTER DETAIL** 

NOT TO SCALE

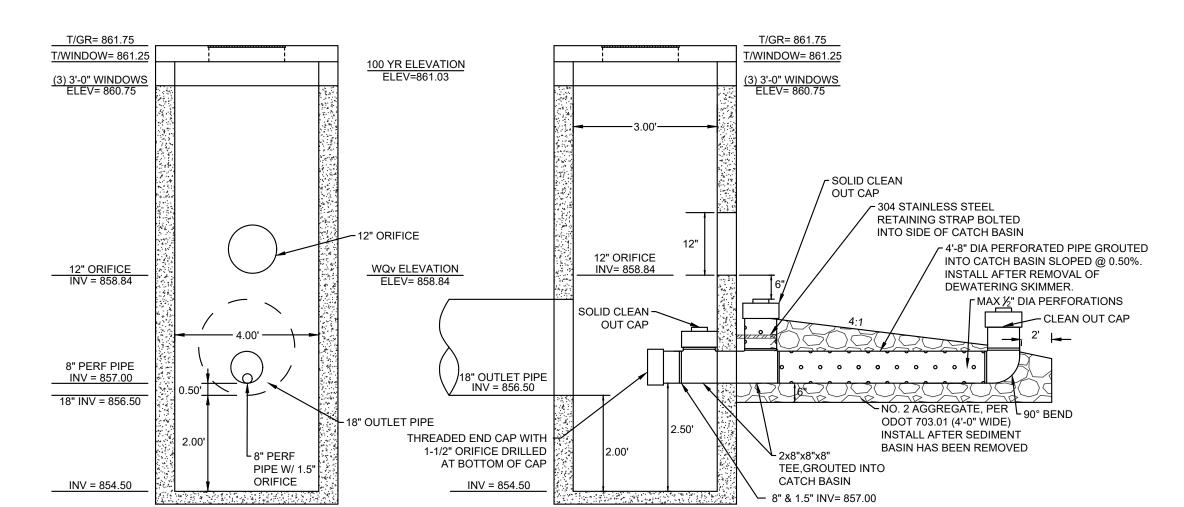
- 1. CONSTRUCT GUTTERS WITH 4000 PSI COMPRESSIVE
- 2. IMPRESS CONCRETE GUTTER CONTRACTION JOINTS
- STRENGTH CONCRETE. AND SPACE AT 10 FOOT INTERVALS.



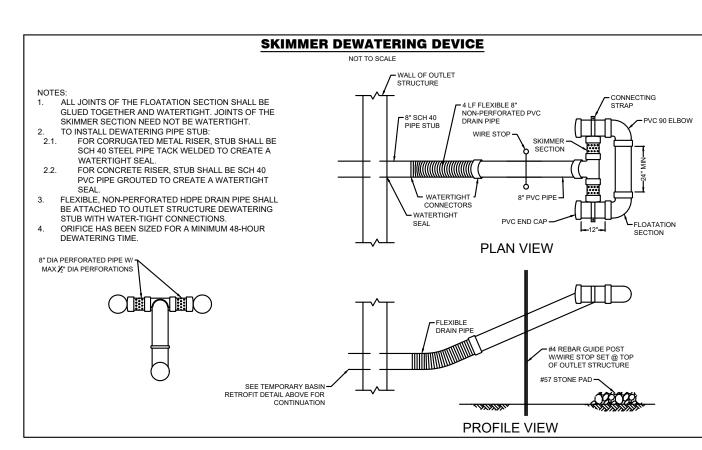




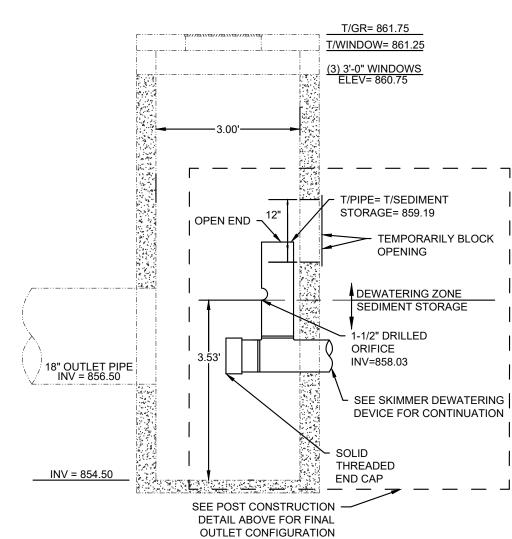




## **POST-CONSTRUCTION DETAIL DETENTION BASIN OUTLET STRUCTURE - ODOT CB2-3** NOT TO SCALE





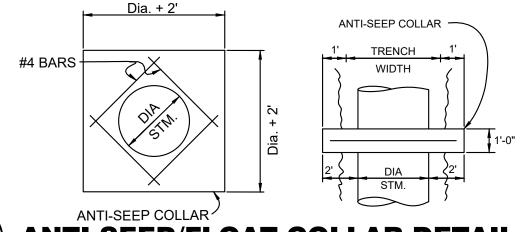


## **TEMPORARY** BASIN RETROFIT DETAIL

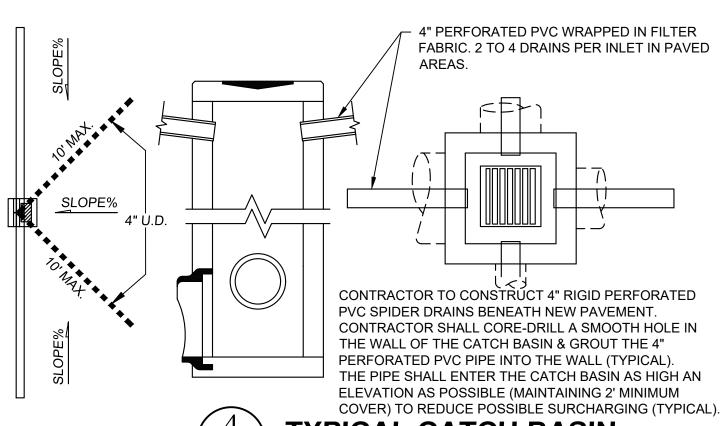
GARAGE

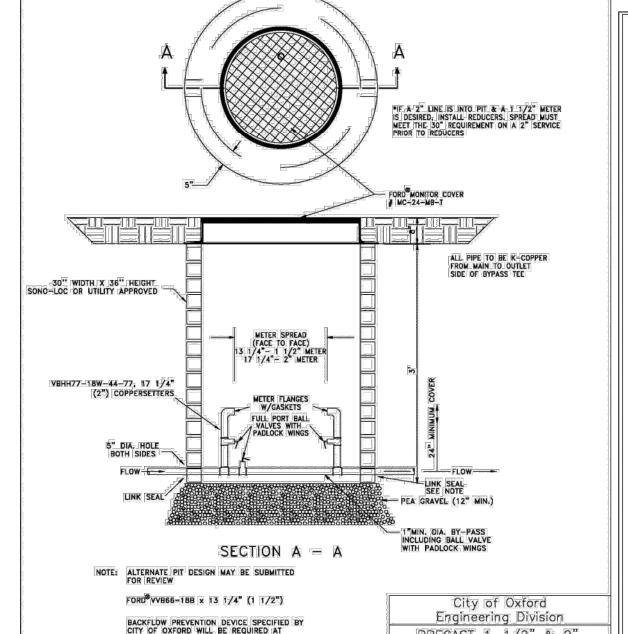
NEW MAINTENAN FALAWANDA CITY

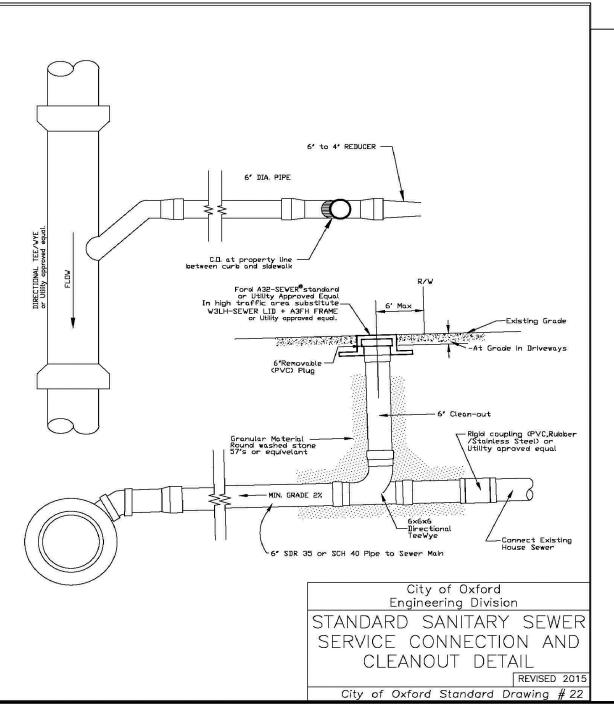
NOT TO SCALE

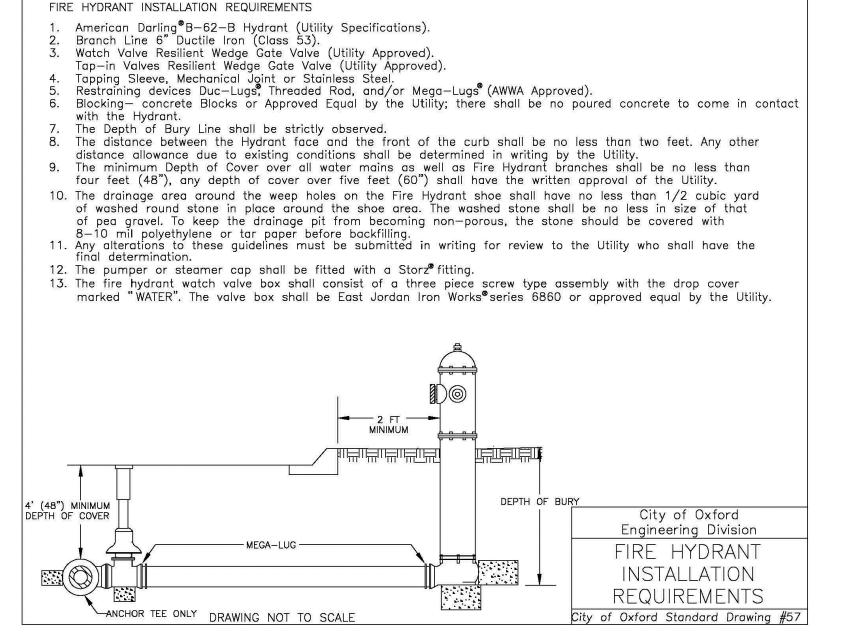


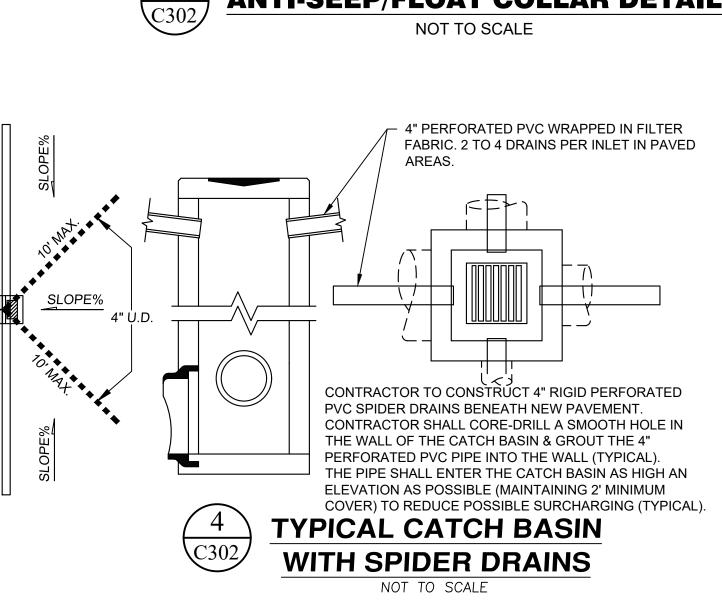
**ANTI-SEEP/FLOAT COLLAR DETAIL** 



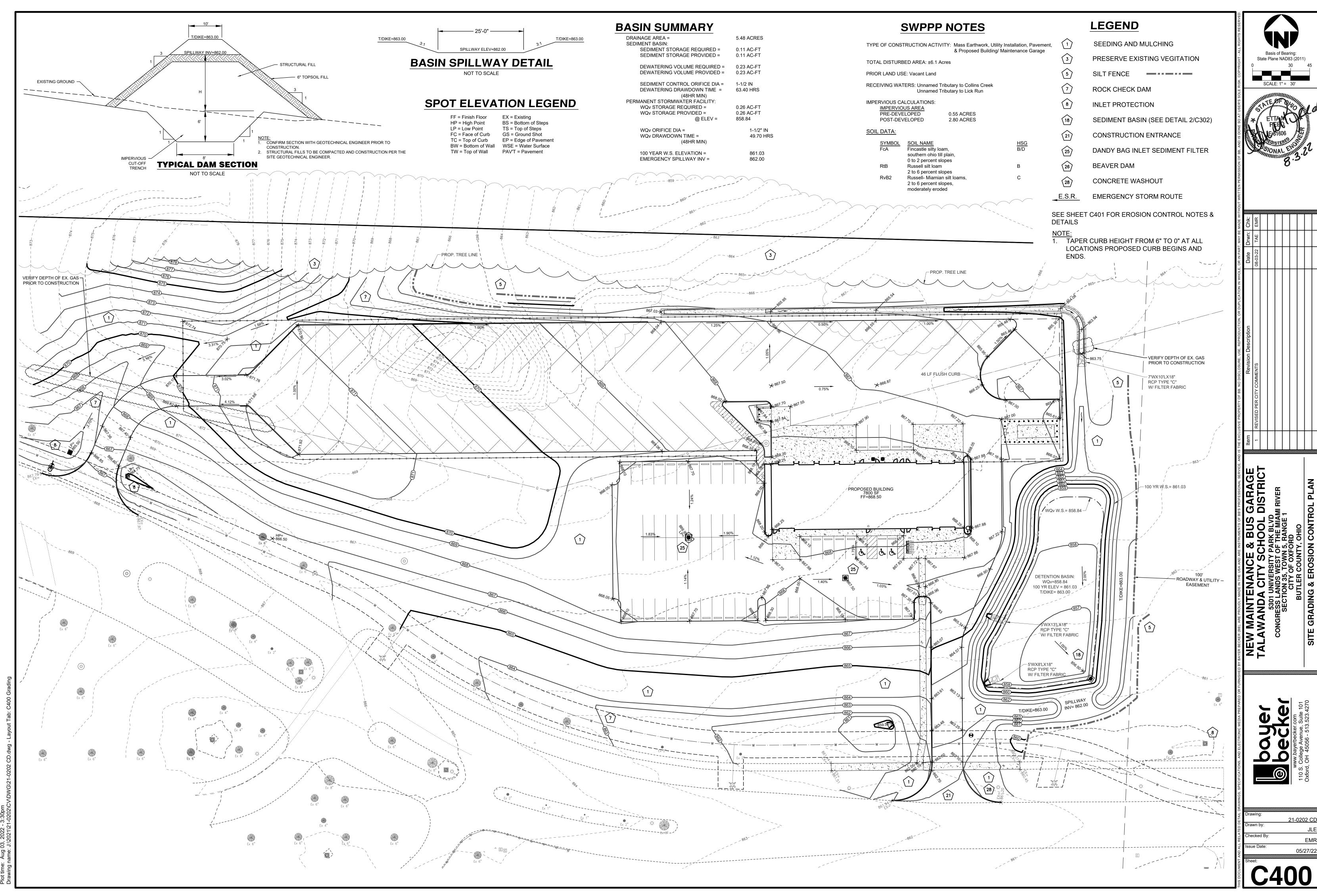








BACKFLOW PREVENTION DEVICE SPECIFIED BY CITY OF OXFORD WILL BE REQUIRED AT SERVICE ENTRANCE PRECAST 1-1/2" & 2"
WATER METER PIT (1-1/2" & 2" SERVICE LINE) (For off road use only) City of Oxford Standard Drawing #54



- Permanent seeding should be applied to
- Areas or portions of construction-sites which can be brought to final grade. Applications of permanent seeding should not be delayed while construction on limited portions of the site being completed.
- \* Areas on that will be regraded, but will be dormant for a year or more PLANNING CONSIDERATIONS

Healthy dense turf will have a dramatic long lasting effect on stormwater quality as well as promoting infiltration and reducing the amount of runoff. To establish quality vegetation, careful preparation of the seedbed, soil, even

Soil Compaction-Stormwater quality and the amount of runoff both vary significantly with soil compaction.

high infiltration & lower runoff rates. pollutant filtration, deposition & absorption, and

preparation. Use discretion in slip-prone areas.

beneficial biologic activity in the soil Construction activity can cause highly compacted soils but also offers the opportunity to improve soil condition. The best time for improving soil condition is during the establishment of permanent vegetation. It is highly recommended that subsoilers, plows or others implements be specified as part of final seedbed

Minimum Soil Conditions--Vegetation cannot be expected to stabilize soil that is unstable due to its texture, structure, water movement or excessively steep slope. The following minimum soil conditions are needed for the establishment and maintenance of a long-lived vegetation cover. If these conditions cannot be met, see the Standards and Specifications for Resoiling. Soils must include enough fine-grained material to hold at least a moderate amount of available moisture. The soil must be free from material that is toxic or otherwise harmful to plant growth.

	Perman	ent Seeding	
Seed Mix	Seedin	g Rate	Notes:
Occu Wiix	lb./ac.	lb./1,000 ft. <sup>2</sup>	Notes.
	Gene	ral Use	
Creeping Red Fescue Ryegrass Kentucky Bluegrass	20-40 10-20 10-20	1/2-1 1/4-1/2 1/4-1/2	
Tall Fescue	40	1	
Dwarf Fescue	40	1	
	Steep Banks	or Cut Slopes	
Tall Fescue 40		1	
Crown Vetch Tall Fescue	10 20	1/4 1/2	Do not seed later than August
Flat Pea Tall Fescue	20 20	1/2 1/2	Do not seed later than Augus
	Road Ditc	hes and Swales	
Tall Fescue	40	1	
Dwarf Fescue Kentucky Bluegrass	90 5	2 1/4	
	L	awns	
Perennial Ryegrass Kentucky Bluegrass	60 60	1 1/2 1 1/2	
Creeping Red Fescue Kentucky Bluegrass	60 60	1 1/2 1 1/2	For shaded areas
te: Other approved seed s	necies may be subs	tituted	

Maintenance for Perma		ngs				
Mixture	Formula	lb./ac.	lb./1,000 sq. ft.	Time	Mowing	
Creeping Red Fescue Ryegrass Kentucky Bluegrass	10-10-10	500	12		Not closer than 3"	
Tall Fescue	10-10-10	500	12	Fall, yearly or as needed	Not closer than 4"	
Dwarf Fescue	10-10-10	500	12		Not closer than 2"	
Crown Vetch Fescue	0-20-20	400	10	Spring, yearly following establishment	Do not mow	
Flat Pea Fescue	0-20-20	400	10	and every 4-7 yrs. thereafter	Do not mow	
Note: Following soil test recommendations is preferred to fertilizer rates shown above.						

### SITE PREPARATION

- A subsoiler, plow or other implement shall be used to reduce soil compaction and allow maximum infiltration. (Maximizing infiltration will help control both runoff rate and water quality.) Subsoiling should be done when the soil moisture is low enough to allow the soil to crack or fracture. Subsoiling shall not be done on slip-prone areas where soil preparation should be limited to what is necessary for establishing
- The site shall be graded as needed to permit the use of conventional equipment for seedbed preparation 3. Resoil shall be applied where needed to establish vegetation.
- SEEDBED PREPARATION Lime--Agricultural group limestone shall be applied to acid soil as recommended by a soil test. In lieu of a soil test, lime shall be applied at the rate of 100 lb./1,000 sq. ft. or 2 tons/ac
- Fertilizer--Fertilizer shall be applied as recommended by a soil test. In lieu of a soil test, fertilizer shall be oplied at a rate of 12 lb./1.000 sq. ft. or 500 lb./ac. of 10-10-10- or 12-12-12 analysi
- 3. The lime and fertilizer shall be worked into the soil with a disk harrow, spring-tooth harrow, or other suitable field implement to a depth of 3 in. On sloping land the soil shall be worked on the contou

Seeding should be done March 1 to May 31 or August 1 to September 30. These seeding dates are ideal but, with the use of additional mulch and irrigation, seedings may be made any time throughout the growing

Mulch material shall be applied 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. Dormant seeding shall be mulched.

season. Tillage/seedbed preparation should be done when the soil is dry enough to crumble and not form

ribbons when compressed by hand. For winter seeding, see the following section on dormant seeding.

- Straw--If straw is used it shall be unrotted small-grain straw applied at the rate of 2 tons/ac. or 90 lb./1,000 sq. ft. (two to three bales). The mulch shall be spread uniformly by hand or mechanically so the soil surface is coven or uniform distribution of hand-spread mulch, divide area into approximately 1,000 sq. ft. sections and spread

Hydroseeders--If wood cellulose fiber is used, it shall be used at 2,000 lb./ac. or 46 lb./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.
- 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 by, generally, be left longer than 6 in.
- Permanent seeding shall not be considered established for at least 1 full yr. from the time of planting. Seeded areas shall be inspected for failure and vegetation conditions, it may be necessary to irrigate, fertilize, overseed, or reestablish plantings in order to provider permanent vegetation for adequate erosion control.
- Maintenance fertilization rates shall be established by soil test recommendations or by using the rates shown in the following table.



INSPECT WEEKLY AND AS DIRECTED IN THE STORMWATER POLLUTION PREVENTION PLAN, REPAIR/REPLACE AS NEEDED REMOVE COLLECTED CONCRETE WHEN THE APPEARS 1/3 FULL DISPOSE OF INORGANIC MATERIAL PROPERLY.

# TEMPORARY SEEDING (1)

emporary seeding provides erosion control on areas in between construction operations. Grasses which are quick growing are seeded and usually mulched to provide prompt, temporary soil stabilization. It effectively minimizes the area of a construction-site prone to erosion and should be used everywhere the sequence of construction operations allows vegetation to be established CONDITIONS WHERE PRACTICE APPLIES

mporary seeding should be applied on exposed soil where additional work (grading,etc.) is not scheduled for more than 14 days. Permanent seeding should be applied if the areas will be idle for more than a ye

This practice has the potential to drastically reduce the amount of sediment eroded from a construction-si ol efficiencies greater than 90% will be achieved with proper applications of temporary seeding. Because practices used to trap sediment are usually much less effective, temporary seeding is to be used even on areas where runoff is treated by sediment trapping practices. Because temporary seeding is high effective and practical on construction-sites, its liberal use is highly recommended.

Seeding Dates	Species	Lb./1,000 ft. 2	Per Acre
March 1 to August 15	Oats	3	4 bushel
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
	Perennial Ryegrass	1	40 lb.
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
August 16 to November	Rye	3	2 bushel
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
	Wheat	3	2 bushel
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
	Perennial Ryegrass	1	40 lb.
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.

Structural erosion- and sediment-control practices such as diversions and sediment traps shall be and stabilized with temporary seeding prior to grading the rest of the constru Temporary seed shall be applied between construction operations on soil that will not be graded or reworked for 14 days or more. These idle areas should be seeded as soon as possible after grading or shall be seeded within 7 days. Several applications of temporary seeing are necessary on typical

Note: Other approved seed species may be substituted

- However, temporary seeding shall not be postponed if ideal seedbed preparation is not possible. 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. 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 tamped into place using a roller or cultipacker. If hydroseeding is used, the seed an fertilizer will be mixed on-site and the seeding shall be done immediately and without interruption.

### MULCHING TEMPORARY SEEDING

46 lb./1.000 sq. ft.

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

Straw--If straw is used, it shall be unrotted small-grain straw applied at the rate of 2 tons/ac. or 90 lb./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-lb. bales of straw in each section. Hydroseeders--If wood cellulose fiber is used, it shall be used at 2,000 lb/ac. or

Other--Other acceptance 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.

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 in. 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 runoff and on critical slopes

Asphalt Emulsion--Asphalt shall be applied as recommended by the manufacturer or at the rate of 160 gal./ac. 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

Wood-Cellulose Fiber--Wood-cellulose fiber binder shall be applied at a net dry the mixture shall contain a maximum of 50 lb./100 gal

- Seeding shall not be planted from October 1 through November 20. During this period the seeds are likely to germinate but probably will not be able to survive the winter.
- 2. The following methods may be used for "Dormant Seeding"
- From October 1 through November 20, prepare the seedbed, add the required amounts of lime and fertilizer, then mulch and anchor. After November 20, and before March 15, broadcast the selected seed mixture. Increase the seeding rates by 50%
- From November 20 through March 15, when soil conditions permit, prepare the seedbed, lime and fertilize, apply the selected seed mixture, mulch and anchor. ncrease the seeding rates by 50% for this type of seeding.
- Apply seed uniformly with a cyclone seeder, drill, cultipacker seeder, or hydro-seeder
- Where feasible, except when a cultipacker type seeder is used, the seedbed should be firmed following seeding operations with a cultipacker, roller, or light drag. On sloping land, seeding operations should be on the contour where feasible. Mulch Nettings--Nettings shall be used according to the manufacturer's recommendations. Netting may be necessary to hold mulch in place in areas of
- concentrated runoff and on critical slopes. Asphalt Emulsion--Asphalt shall be applied as recommended by the manufacturer or at
- the rate of 160 gal./ac. Synthetic Binders--Synthetic binders such as Acrylic DLR (Agri-Tac), DAC-70, Petroset, Terra Tack or equal may be used at rates recommended by the
- Wood Cellulose Fiber--Wood cellulose fiber binder shall be applied at a net dry weight of 750 lb./ac. The wood cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 lb./100 gal. of wood cellulose fiber.
- Permanent seeding shall include irrigation to establish vegetation during dry or hot weather or on adverse site conditions as needed for adequate moisture for seed
- Excessive irrigation rates shall be avoided and irrigation monitored to prevent erosion

## **SILT FENCE**

INSTALLATION 1. PUT UP BEFORE ANY OTHER WORK IS DONE.

2. INSTALL ON DOWNSLOPE SIDE(S) OF SITE WITH ENDS EXTENDED UP

SIDESLOPES A SHORT DISTANCE.

3. PLACE PARALLEL TO THE CONTOUR OF THE LAND AND AT THE FLATTEST AREA AVAILABLE TO ALLOW WATER TO POND BEHIND FENCE.

4. STAKE TO BE A MINIMUM OF 32 INCHES LONG

5. MINIMUM HEIGHT SILT FENCE 16 INCHES ABOVE ORIGINAL GROUND SURFACE 6. LEAVE NO GAPS BETWEEN SECTIONS OF SILT FENCE INSPECT AND REPAIR ONCE

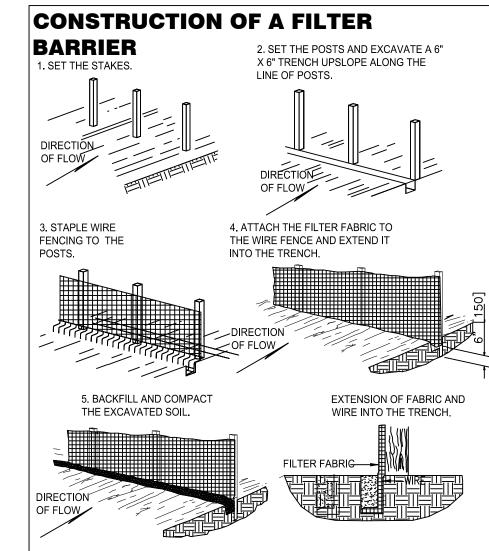
A WEEK AND AFTER EVERY 1/2 INCH RAIN. REMOVE SEDIMENT IF DEPOSITS REACH

- HALF THE FENCE HEIGHT 7. MAXIMUM DISTANCE FROM TOE OF THE SLOPE, LEAVING AT LEAST 5' DISTANCE.
- GROUND SURFACE; EXCESS MATERIAL TO LAY ON THE BOTTOM OF 6" TRENCH

MATERIALS: FILTER FABRIC SHALL MEET THE REQUIREMENTS OF CMS 712.09, TYPE C. SUPPORT

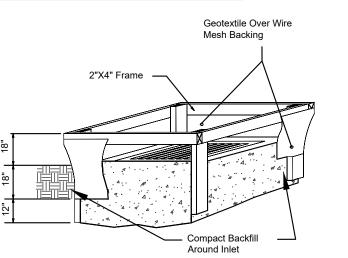
CONSTRUCTION: THE BOTTOM OF THE FABRIC SHALL BE BURIED 6" [150] BELOW THE GROUND. THE ENDS OF ADJACENT SECTIONS OF FENCE SHALL BE OVERLAPPED WITH THE END STAKE OF EACH SECTION WRAPPED TOGETHER PRIOR TO INSTALLATION. THE GROUND ELEVATION OF THE FENCE SHALL BE HELD CONSTANT EXCEPT THAT THE END ELEVATIONS SHALL BE RAISED UPSLOPE OR REPLACEMENT COST WILL BE PAID FOR BY THE DEPARTMENT UNDER UNIT BID PRICES, AGREED UNIT PRICES, OR CMS 109.04.

PAYMENT: THE COST OF ALL MATERIALS, CONSTRUCTION AND REMOVAL SHALL BE PAID FOR UNDER ITEM 207 - TEMPORARY PERIMETER FILTER FABRIC FENCE OR TEMPORARY DITCH CHECK



# CHECK FILTER FABRIC FENCE PLAN VIEW **ELEVATION**

# INLET PROTECTION IN SWALES, DITCH LINES OR YARD INLETS



- Backfill shall be placed around the inlet in compacted 6-in. layers until the earth is even with notch
- inlet is not in a depression and if runoff bypassing the inlet will not flow to a setting pond. The top of earth dikes shall be at least 6 in. higher than the top of the frame.

## 25) DANDY BAG<sup>®</sup>INLET SEDIMENT FILTER

THE PATENTED DANDY BAG<sup>®</sup>IS DESIGNED FOR USE WITH FLAT GRATES (INCLUDING ROUND) AND MOUNTABLE CURBS TO DETAIN SEDIMENT-LADEN STORM WATER. THE SUSPENDED SOLIDS ARE ALLOWED TO SETTLE OUT OF THE SLOWED FLOW PRIOR TO ENTERING THE DANDY BAG.

1. STAND THE GRATE ON END

2. PLACE THE DANDY BAG® OVER THE GRATE

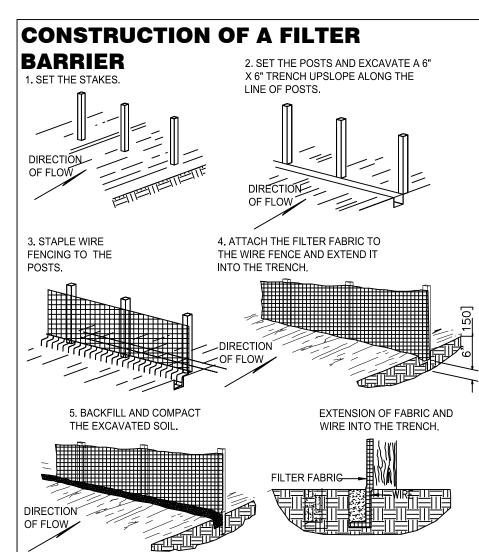
- 8. STAKE ON DOWNHILL SIDE OF GEOTEXTILE WITH 8" OF CLOTH CLOTH BELOW THE
- 9. ODOT TYPE "C" GEOTEXTILE FABRIC OR EQUAL

10. MAINTAIN UNTIL A LAWN IS ESTABLISHED.

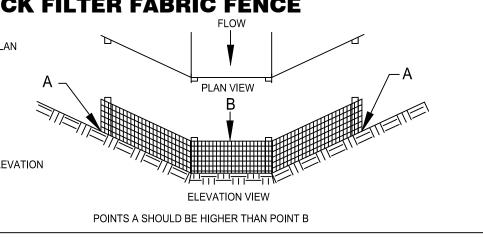
STAKES SHALL BE A MINIMUM OF 1.5"X1.5" [38X38], NOMINAL, AND SHALL BE HARDWOOD OF SOUND QUALITY. THE STAKES SHALL BE DRIVEN A MINIMUM OF 6" [150] BELOW THE BOTTOM OF THE FILTER FABRIC. THE MAXIMUM SPACING BETWEEN SUPPORT STAKES SHALL BE 10' [3 M].

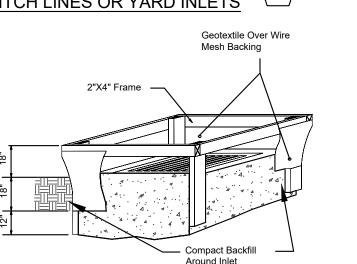
TO PREVENT FLOW AROUND THE END OF THE FENCE. MAINTENANCE: THE FILTER FABRIC FENCE SHALL BE MAINTAINED TO BE FUNCTIONAL. THIS SHALL INCLUDE REMOVAL OF TRAPPED SEDIMENT AND REQUIRED CLEANING, REPAIR, AND REPLACEMENT OF THE FILTER FABRIC. THE MAINTENANCE

FILTER FABRIC FENCE, LINEAR FOOT [METER].



# PLACEMENT AND CONSTRUCTION OF DITCH





elevation on ends and top elevation on sides. A compacted earth dike or a check dam shall be constructed in the ditch line below the inlet if the

## INSTALLATION

3. ROLL THE GRATE OVER SO THAT THE OPEN END IS UP 4. PULL UP THE SLACK

BE SURE THAT THE END OF THE GRATE IS COMPLETELY

COVERED BY THE FLAP OR THE DANDY BAG WILL NOT WORK

- 5. TUCK THE FLAP IN 6. PRESS THE VELCRO STRIPS TOGETHER

HOLDING THE HANDLES, CAREFULLY PLACE THE DANDY BAG<sup>®</sup> WITH THE GRATE INSERTED INTO THE CATCH BASIN

> TO INSURE PROPER OPERATION REMOVE SILT, SEDIMENT, AND DEBRIS FROM THE SURFACE AND THE VICINITY OF THE UNIT WITH A SQUARE POINT SHOVEL OR STIFF BRISTLE BROOM AWAY FROM ENVIRONMENTALLY SENSITIVE AREAS AND WATERWAYS IN MANNER SATISFACTORY TO THE ENGINEER/INSPECTOR, REMOVE FINE MATERIAL FROM INSIDE DANDY BAG® AS NEEDED. DISPOSE OF DANDY BAG<sup>®</sup> NO LONGER IN USE AT AN APPROPRIATE RECYCLING OR SOLID

### INLET INSPECTION

MAINTENANCE

TO INSPECT INLET, REMOVE DANDY BAG<sup>®</sup> WITH GRATE INSIDE, INSPECT CATCH BASIN AND REPLACE DANDY BAG BACK INTO GRATE

Erosion Prevention and Sediment Control Site Inspection Form

Introduction: By using some simple Best Management Practices (BMP's) developers and

contractors can do their share to protect the City of Oxford's water resources from the harmful

effects of sediment. The topography of the site and the extent of the construction activities will

applicable to most construction sites. For details on the installation and maintenance of these

Standards for Storm Water Management, Land Development and Urban Stream Protection

determine which of these practices are applicable to any given site, but the BMP's listed here are

BMP's, please refer to the approved plans and or the Rainwater and Land Development, Ohio's

Temporary Stabilization is the most effective BMP. All disturbed areas that will lie dormant for

14 days or more must be stabilized within 7 days of the date the area becomes inactive. The goal

stabilized within 2 days of reaching final grade. This is accomplished by seeding with fast-growing

leave natural cover in place for as long as possible by only disturbing areas worked within the next

of temporary stabilization is to provide cover quickly. Areas within 50 feet of a stream must be

grasses, then covering with straw mulch. See the Rainwater and Land Development Manual for

roughstone access drive underlain with woven geotextile shall be installed at every point where

on the lot begins. Maintenance is performed by top dressing with stone and/or street sweeping.

vehicles enter or exit the site. Every individual lot should also have its own drive once construction

Sediment Basins/Traps are the sediment control of choice for areas, which exceed the design

capacity of silt fence (see page 119 of the Rainwater manual) or to control concentrated flows or

runoff. There are two types: sediment basins and sediment traps. A trap is appropriate where the

contributing drainage area is 10 acres or less. The outlet is an earthen embankment with a simple

stone spillway underlain with woven geotextile. A sediment basin is appropriate for drainage areas

basin during construction. All sediment ponds, regardless of whether they are a trap or a basin, or whether they will become a permanent storm water pond, must provide a minimum storage of 67

cubic yards per acre of total contributing drainage area. Sediment ponds must be installed prior to

mass clearing and grading. Maintenance must be performed once the basin loses 40% of capacity,

Silt Fence or Mulch Berms are typically used at the perimeter of a disturbed area. They are

where runoff is concentrated in a ditch, pipes or though streams. For large drainage areas where

flow is concentrated, collect runoff in diversion berms or channels and pass it through a sediment

pond prior to discharging it from the site. Combination barriers constructed of silt fence supported by welded wire fencing, mulch berms supported by rock check dams, or silt fence embedded within

rock check dams may be effective within small channels. As with all sediment controls, silt fence or

These must be installed within 7 days of first grubbing the area it controls. Whenever practical they

Inlet Protection must be installed on all yard drains and curb drains when these inlets do not

drain to a sediment trap or basin. Even if there is a sediment trap or basin, inlet protection is still

sediment removal efficiency. Best used on roads with little or no traffic. If working properly, inlet protection will cause water to pond. If used on curb inlets, streets will flood temporarily during heavy

storms, (overflow should be built-in.) Check with the authority that has jurisdiction over the roads

before installing. They may prefer an alternate BMP. Care should be taken when placing inlet

protection so that the runoff is not diverted to public roads or other areas where it could cause a

Permanent Stabilization must occur on areas at final grade 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 or on steep slopes. These measures include

the addition of topsoil, erosion control matting, rock riprap or retaining walls. See the Rainwater and

Land Development Manual for seasonally adjusted seeding specifications. At all times of the year.

Inspections shall be performed at least once a week and within 24 hours after a storm event

Erosion prevention and sediment control (EP&SC) measures shall be observed to ensure correct

conditions allow. Repairs to sediment ponds shall be completed within 10 days or as soon as site

conditions allow. Most of these BMP's are easy to implement with a little bit of planning and go a

Please be sure to inform all parties on site how these BMPs affect their operations on the site,

long way toward keeping your site clean and organized if they are properly installed and maintained

Inspection Log

The site shall be inspected before and after storm events with 0.5 inches or greater predicted or

actual precipitation, and documented on the Construction Site Inspection Form. Incidents of

noncompliance must be reported to the Engineer. A log of all inspections, as shown below, shall be

kept current.

operation. Discharge locations shall be inspected to determine effectiveness of EP&SC measures in

greater than 1/2 inch of rainfall within a 24-hour duration using the enclosed Inspection Form.

Inspections can be tracked using the enclosed Inspection Log. These shall be maintained throughout the development process and kept on file for three years per OEPA requirements.

preventing significant impacts to the receiving waters. Where practices require repair or

ector: Corrective Actions Performed/Date:

particularly those that will be working near a stream.

maintenance, it must be accomplished within three days of the inspection or as soon as site

the area should be temporarily stabilized until a permanent seeding can be applied.

recommended, as it will reduce the amount of sediment entering the basin and increase the overall

mulch berms must be capable of ponding runoff so that sediment can settle out of suspension.

only for small drainage areas on relatively flat slopes or around small soil storage piles; not suitable

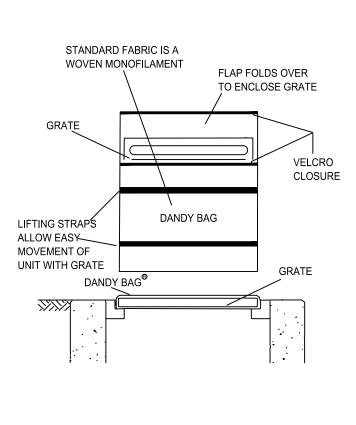
larger than 10 acres. The outlet is an engineered riser pipe. Often a permanent storm water management pond, such as a retention or detention basin, can be retrofitted to act as a sediment

and 30% for storm water basins retrofitted as sediment basins.

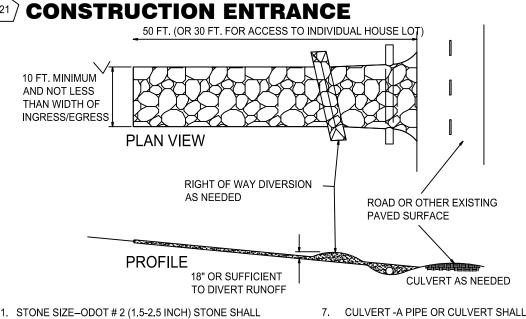
should be installed before clearing or grubbing the area it controls.

seasonally adjusted seeding specifications. To minimize your costs of temporary stabilization,

Construction Entrances are installed to minimize off-site tracking of sediments. A



PONDING IS LIKELY IF SEDIMENT IS NOT REMOVED REGULARLY. THE DANDY BAG<sup>®</sup>MUST NEVER BE USED WHERE OVERFLOW MAY ENDANGER AN EXPOSED SLOPE. THE DANDY BAG<sup>®</sup>IS NOT INTENDED FOR ANY OTHER USE AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE



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 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE

10 INCHES THICK. WIDTH -THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE. BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. GEOTEXTILE -A GEOTEXTILE SHALL BE LAID OVER

THICKNESS -THE STONE LAYER SHALL BE AT LEAST

SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS: TIMING--THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE

THE ENTIRE AREA PRIOR TO PLACING STONE. IT

MAJOR GRADING ACTIVITIES. Geotextile Specification for Construction Minimum Tensile Strength 200 lb/

7. CULVERT -A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES. 8. 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. MAINTENANCE -TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS

CONDITIONS DEMAND, MUD SPILLED. DROPPED WASHED OR 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 10. CONSTRUCTION ENTRANCES SHALL NOT BE

RELIED UPON TO REMOVE MUD FROM

VEHICLES AND PREVENT OFF-SITE TRACKING.

VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-SITE SHALL BE RESTRICTED FROM MUDDY AREAS. 11. REMOVAL-THE ENTRANCE SHALL REMAIN IN PLACE LINTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A

PERMANENT ROADWAY OR ENTRANCE.

### Erosion Prevention and Sediment Control Site Inspection Form

Amount of rainfall since last inspection: Overall site conditions:

(Check for mud in stones/street, runoff diverted from street, etc.,)

Is the entrance installed correctly according to the approved plan? YES NO N/A

Sediment Basins/Traps: Are all Basins installed correctly according to the approved plan? YES NO N/A (Check for runoff directed to basin, down slope areas stabilized, riser pipe wrapped with wire fence/filter fabric, emergency overflow, accumulated sediment more than 40% of volume, etc..)

### Silt Fence/Mulch Berms: Are all Silt Fence/Mulch Berm (SF/MB) installed correctly according to the approved plan?

YES NO N/A (Check for fabric trenched in, follow contour, turned upslope at ends, silt accumulated, broken stakes, tight fabric, installed in all areas where sediment could leave the site) Action Needed:

Are all Inlet Protections installed correctly according to the approved plan? YES NO N/A

### Check for runoff ponding, in good shape, silt accumulated, etc..) Action Needed:

Are all disturbed areas that will lie dormant for 14 days or more stabilized with seed/straw of mulch? (stockpiles, hillsides, etc..) YES NO N/A Are all areas stabilized still in good condition and not eroding? YES NO N/A

Have areas that achieved final grade within the last 7 days been stabilized? YES NO N/A

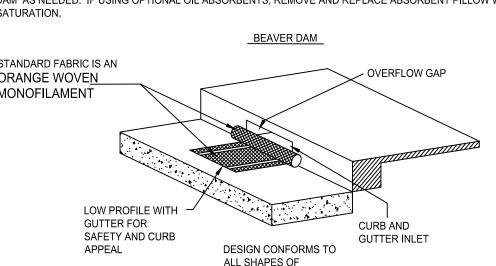
# Do all storm water outflow areas have riprap or concrete to prevent scouring? YES NO N/A

Permanent Stabilization

Are the Stream Crossings installed correctly according to the approved plan? YES NO N/A (Check for stabilized edges, runoff diverted from stream, mud over stones, end of useful life, etc..)

ENCLOSE THE GRATE. HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE

EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE BEAVER DAM AS NEEDED. IF USING OPTIONAL OIL ABSORBENTS; REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR



### CONSTRUCTION SEQUENCE & **EROSION CONTROL NOTES**

CLEAR AND GRUB AREAS NECESSARY FOR THE INSTALLATION OF EROSION AND SEDIMENT PERIMETER CONTROL MEASURES.

4. GRADING AND STRIPPING OF THE REMAINING AREAS OF THE DEVELOPMENT SITE OR PROJECT AREA. INSTALL STORMWATER MANAGEMENT SYSTEMS.

TEMPORARY VEGETATIVE STABILIZATION OF EROSION AND SEDIMENT CONTROL MEASURES

INSTALL EROSION AND SEDIMENT CONTROL MEASURES.

7. GRADING OF ROADS, STREETS, OR PARKING AREAS, ETC. 8. INSTALLATION OF ALL UTILITIES.

9. SITE CONSTRUCTION.

2. INSTALL CONSTRUCTION ENTRANCE.

10. FINAL GRADING, STABILIZATION, AND LANDSCAPING.

11. AFTER THE VEGETATION HAS BECOME WELL ESTABLISHED, REMOVAL OF EROSION AND SEDIMENT

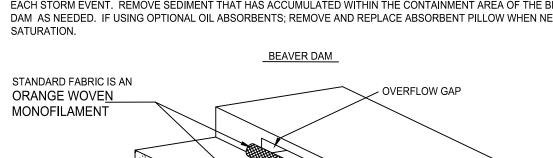
CONTROL MEASURES. 12. THE CONTRACTOR MUST INSPECT ALL EROSION AND SEDIMENT CONTROLS ONCE EVERY 7 DAYS AND

WITHIN 24 HOURS AFTER EACH RAINFALL OF ½ INCH OR GREATER. 13. THE CONTRACTOR MUST CONDUCT NECESSARY REPAIRS WITHIN 72 HOURS.

PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO THE DISTURBED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE.

### **BEAVER DAM** Installation and Maintenance Guidelines

INSTALLATION: THE EMPTY BEAVER DAM SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END. IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW ON POUCH, ON THE BOTTOM (BELOW-GRADE SIDE) OF THE UNIT. ATTACH ABSORBENT PILLOW TO TETHER LOOP. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY WEIGHT OF THE GRATE). PLACE THE GRATE INTO ITS FRAME (STREET SIDE FIRST). THEN LOWER BACK EDGE WITH DAM INTO PLACE. THE BEAVER DAM SHOULD BE PARTIALLY BLOCKING THE CURB HOOD WHEN INSTALLED MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER



ALL SHAPES OF CONCRETE CURBS

GAI

