

COUNTY OF BERKS BERKS HEIM NURSING HOME

1011 Berks Road, Leesport, PA 19533

BOILER PROJECT



Prepared by:

Entech Engineering, Inc. Reading, Pennsylvania ENTECH PROJECT NO. 4177.009

JANUARY 30, 2020

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GENERAL NOTES

- 1. IT IS REQUIRED THAT THE CONTRACTOR VISI PRIOR TO BIDDING TO BECOME FAMILIAR WI STRUCTURE AND EXISTING CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL DIMEN CONDITIONS PRIOR TO THE START OF WORK
- ANY SIGNIFICANT CHANGES IN DIMENSIONS (THE CONTRACTOR SHALL PROVIDE ALL MAT EQUIPMENT AND NECESSARY FACILITIES, AN AND SERVICES OF EVERY DESCRIPTION AS M
- COMPLETE THE SCOPE OF WORK DEFINED C 4. CONTRACTOR SHALL ARRANGE FOR ALL INSP
- LOCAL MUNICIPALITY. 5. FABRICATE AND INSTALL ALL WORK IN STRIC IBC, ALL APPLICABLE STATE AND LOCAL COD
- REQUIREMENTS OF THE OWNER. ALL CONTRACTORS AND SUBCONTRACTORS FOR THE PROPER PERFORMANCE OF THEIR \
- WITH OTHER TRADES, MEANS AND METHODS SAFETY AND SECURITY ON SITE. CONTRACTO TO FOLLOW COUNTY OF BERKS SAFETY PRO WHILE ON SITE.
- CONTRACTOR SHALL PROTECT THE EXISTING WEATHER AND MAINTAIN SECURITY DURING CONSTRUCTION WORK.
- PROTECT EXISTING PROPERTY DURING CONS 8. REPLACE, WITHOUT ADDITIONAL CHARGE TO EXISTING WORK DAMAGED DURING THE COU
- 9. THE WORK SHALL BE COORDINATED WITH TH COUNTY OF BERKS.
- 10. UNLESS ITEMS OF MATERIAL, EQUIPMENT OR SPECIFICALLY NOTED TO BE PROVIDED OR THEY SHALL BE PROVIDED UNDER THIS CON
- 11. ALL WORK SHALL BE PERFORMED BY SKILLEI WORKMANLIKE AND PROFESSIONAL MANNER INDUSTRY STANDARDS.
- 12. DURING THE CONSTRUCTION, THE CONTRAC RESPONSIBLE FOR THE REMOVAL OF ALL TRA
- 13. THE ELEVATION OF THE TOP OF THE NEW G 0'-0") IS EQUAL TO THE SITE ELEVATION OF EI ELEVATION OF THE TOP OF THE NEW GROUN SAME ELEVATION AS THE TOP OF THE EXISTI IN THE LAUNDRY, WHICH IS SHOWN AS EL. 26 DRAWINGS. THE ELEVATION DISCREPANCY USE OF DIFFERENT SURVEY DATUMS.

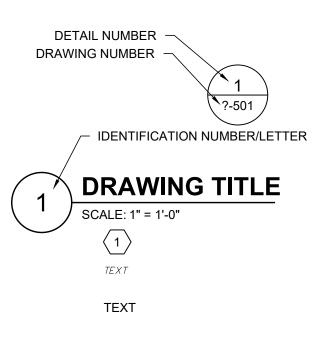
GENERAL PROJECT

- 2. THE LOCATION AND DIMENSIONS OF ALL SITE F APPROXIMATE AND MUST BE VERIFIED IN THE
- CONTRACTOR PRIOR TO CONSTRUCTION. 3. ALL UNDERGROUND UTILITIES SHALL BE LOCAT PRIOR TO ANY EARTH MOVING ACTIVITIES, PURS UNDERGROUND UTILITY LOCATIONS MUST BE V
- 1-800-242-1776. 4. ALL UNDERGROUND UTILITY LOCATIONS AND E CONSTRUCTION PLANS APPROXIMATE LOCATIO LIMITED FIELD MARKINGS AND AVAILABLE RECO UTILITIES NOT SHOWN OR NOT LOCATED AS SHO CAUSE OF THE CONTRACTOR TO DENY RESPON PROTECTION AND/OR REPAIR DURING CONSTRU SHALL FIELD VERIFY ALL EXISTING FACILITIES A PROTECTIVE MEASUREMENTS, RESTRAINTS ANI NECESSARY.
- 5. THESE DESIGN DRAWINGS MUST BE WORKED II PROJECT MANUAL/SPECIFICATIONS. 6. CONTRACTOR SHALL PROVIDE ALL FITTINGS NE
- HORIZONTAL AND VERTICAL ALIGNMENT OF PIPI . CONTRACTOR SHALL USE, MAINTAIN AND PROV SHORING DEVICES ON SITE AT ALL TIMES. CONT
- CONFORM TO ALL LOCAL, STATE AND FEDERAL 8. CONTRACTOR SHALL ABIDE BY ISSUED LAND DE CONDITIONS INCLUDING TRAFFIC CONTROL, AN SEDIMENTATION CONTROL..

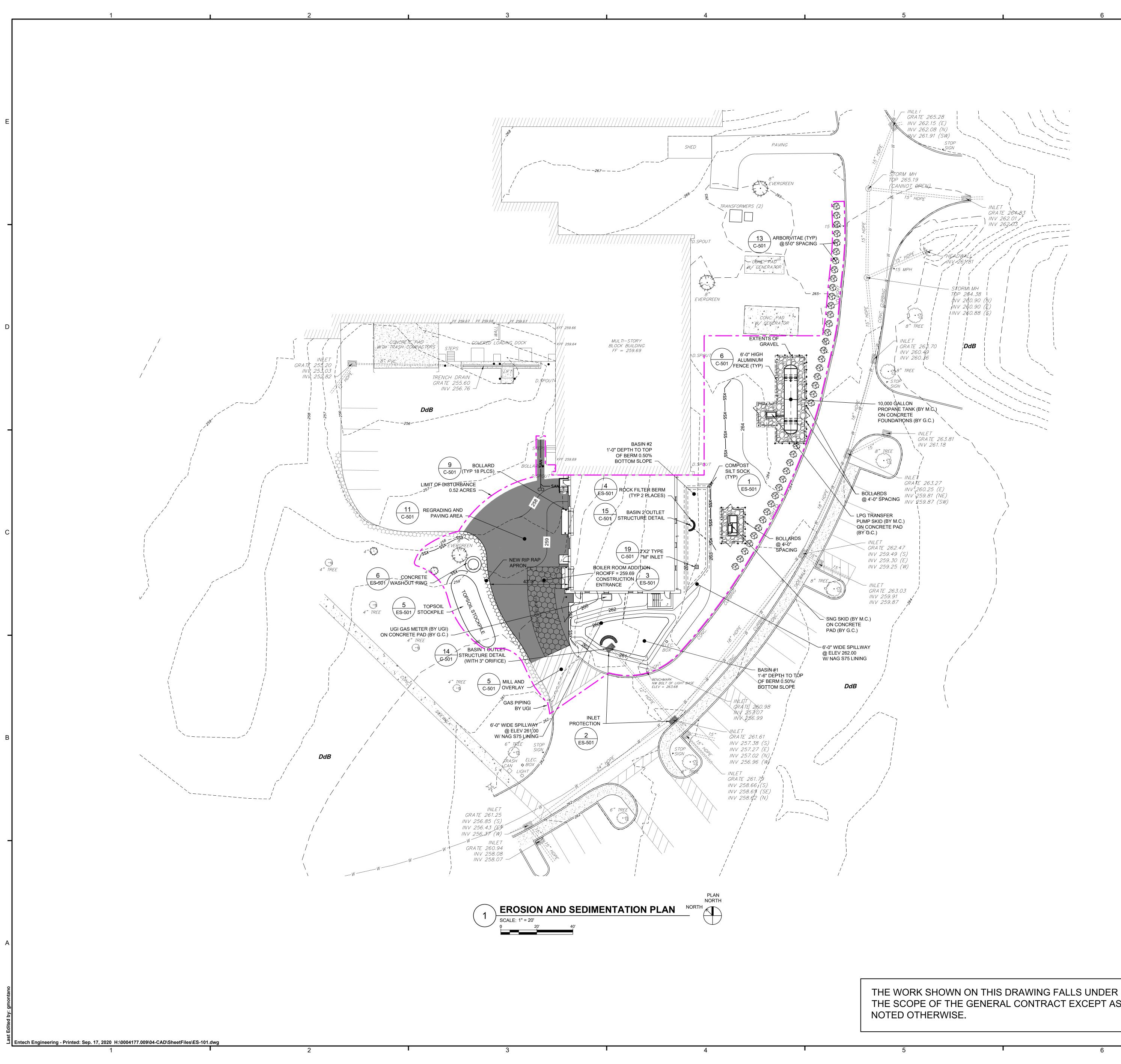


EXISTING BUILDING PHOTO Scale: NONE

REFERENCE LEGEN



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THE SCOPE OF THE GENERAL CONTRACT EXCEPT AS

GENERAL SHEET N

- FIELD SURVEY BY SNYDER SURVEYING, DATED DATUM.
- 2. ONE CALL PREFORMED BY SNYDER SURVEYING, 3. UNDERGROUND UTILITIES LOCATED BY MASTER NOVEMBER 2019.
- 4. THE LOCATION AND DIMENSIONS OF ALL SITE FE APPROXIMATE AND MUST BE VERIFIED IN THE FI
- CONTRACTOR PRIOR TO BIDDING. 5. ALL UNDERGROUND UTILITIES SHALL BE LOCAT PRIOR TO ANY EARTH MOVING ACTIVITIES, PURS UNDERGROUND UTILITY LOCATIONS MUST BE V
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- NECESSARY. THESE DESIGN DRAWINGS MUST BE WORKED IN PROJECT MANUAL/SPECIFICATIONS.
- 8. CONTRACTOR SHALL USE, MAINTAIN AND PROV SHORING DEVICES ON SITE AT ALL TIMES. CONT CONFORM TO ALL LOCAL, STATE AND FEDERAL F

E&S LEGEND

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 - ROCK FILTER BE TOPSOIL STOCK
- <u>SOILS</u> DbB DUFFIELD SILT LOAMS, 8 TO 15 PERCENT S

FINAL PLAN PLUM CREEK, WWF, MF

LOCATION MAP SCALE: NONE

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	GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BEST MANAGEMENT PRACTICES (BMPS) SPECIFIED CONSTRUCTION SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE ARE/ BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATO IMPLEMENT APPROPRIATE BMPS TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE BERKS COUNTY CONSERVATION DISTRICT AND
	IMPLEMENT APPROPRIATE BMPS TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE BERKS COUNTY CONSERVATION DISTRICT AND, SOUTH-CENTRAL REGIONAL OFFICE OF DEP. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED DISCHARGE POINTS SHOULD BE ESTABLISHED TO PROVIDE FOR MAXIMUM DISTANCE TO ACTIVE WATERWAYS.
	UNTIL THE SITE IS STABILIZED, ALL E&S BMPS MUST BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL E&S BMPS AFTER EACH RUNOFF EVE ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHI RENETTING MUST BE PERFORMED IMMEDIATELY. IF E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED N REQUIRED. A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON T
	AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
	ALL EXCAVATION FOR UTILITY LINE INSTALLATION SHALL BE LIMITED TO THE AMOUNT THAT CAN BE EXCAVATED, INSTALLED, BACKFILLED AND STABILIZED WITHIN ONE WE DAY. ALL EXCAVATED MATERIAL SHALL BE DEPOSITED ON THE UPSLOPE SIDE OF THE TRENCH. CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATI GROUNDWATER SYSTEMS. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR APPROVED METHOD.
	FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMM CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE PENNSY DEPARTMENT OF ENVIRONMENTAL PROTECTION AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.
	ALL BUILDING MATERIALS AND WASTES MUST BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID MANAGEMENT REGULATIONS AT 25 PA. CODE CHAPTER 260, §§260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MAT SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY A COUNTY CONSERVATION DISTRICT OR DEP FULLY IMPLEMENTED PRIOR TO
	ACTIVATED. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING. ALL FILLS SHALL BE COMPACE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURE CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PF CONSTRUCTION OF SATISFACTORY FILLS.
	FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES. QUENCE NOTES
	AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES (INCLUDING CLEARING AND GRUBBING), THE OWNER AND/OR OPERATOR SHALL INVI CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM (POST-CONSTRUCTION STORMWATER MANAGEMENT PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM COUNTY CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
	AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYST SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE M APPROVED IN WRITING FROM THE BERKS COUNTY CONSERVATION DISTRICT OR BY DEP PRIOR TO IMPLEMENTATION.
	THE LIMITS OF DISTURBANCE (LOD), STREAMS AND WETLANDS SHOULD BE MARKED PRIOR TO DISTURBANCE ACTIVITIES (I.E. SURVEY STAKES, POSTS & ROPE, CONSTR FENCE, ETC.). AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY E&S BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT PCSM MANAGEMENT BMPS. DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS MUST BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS REMOVAL/CONVERSIONS SHOULD BE DONE ONLY DURING THE GERMINATING SEASON. BERKS COUNTY CONSERVATION DISTRICT SHOULD BE CONTACTED PR CONVERSION OR REMOVAL OF PRIMARY E&S BMPS AND MAY REQUIRE A SITE INSPECTION.
	UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTA BERKS COUNTY CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS. ABILIZATION NOTES
	TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAPS(S) IN THE AMOUNT NECESS. COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
	AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES, OR 6 TO 12 INCHES ON COMPACTED SOILS, PRIOR TO PLACEM TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMU INCHES OF TOPSOIL.
	UPON TEMPORARY CESSATION OF AN EARTH DISTURBANCE OR ANY STAGE OR PHASE OF AN ACTIVITY WHERE A CESSATION OF EARTH DISTURBANCE ACTIVITIES EXC DAYS, THE SITE SHALL BE IMMEDIATELY SEEDED, MULCHED OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION PENDING FUTURE DISTURBANCE ACTIVITIES."
	STRAW MULCH MUST BE APPLIED AT RATES OF AT LEAST 3.0 TONS PER ACRE. STRAW MULCH SHOULD BE ANCHORED IMMEDIATELY AFTER APPLICATION TO PREVENT WINDBLOWN.
	ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED VEGETATED.
	EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER, WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED ACCORDING TO THE STANDARDS OF THIS PLAN.
	IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. I NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH V REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACT WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACT WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
	PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A D SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS. E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHE APPROVED BY THE BERKS COUNTY CONSERVATION DISTRICT OR DEP.
	THE MATERIAL. WOODCHIPS, FREE OF INSECTS AND DISEASE ARE PERMITTED AT A RATE OF 4-6 TONS PER ACRE. MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 85% TO 95% OF THE SOIL SURFACE WILL BE COVERED.
i. ii.	PEG AND TWINE - DRIVE 8" TO 10" PEGS TO WITHIN 2" TO 3" OF THE SOIL SURFACE EVERY 4' IN ALL DIRECTIONS. TAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING SECURE THE MULCH TO THE SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISSCROSS OR SQUARE PATTERN, AND SECURE THE TWIN AROUND EAR WITH TWO OR MORE ROUND TURNS. MULCH NETTING - STAPLE PAPER, JUTE, COTTON OR PLASTIC NETTINGS TO THE SOIL SURFACE. USE DEGRADABLE NETTING IN AREAS TO BE MOWED.
iii. d. e.	APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND CATCHES THE MULCH. IN VALLEYS AND AT CRESTS OF BANKS. REMAINDER OF AREA SHOULD BE UNIF APPEARANCE.
f. i.	OTHER: WHERE EXCESSIVE SOIL EROSION, TRACKING OR FLOWING OF SEDIMENT IS EVIDENT OR ANTICIPATED, A MINIMUM OF 4" OF CRUSHED STONE SHALL BE PLACED WITH AFFECTED AREA AND MAINTAINED UNTIL PERMANENT STABILIZATION IS PROVIDED. ADDITIONAL STONE SHALL BE PLACED AS REQUIRED UNTIL STABILIZATION IS ACI CRUSHED STONE SHALL CONFORM TO AASTO DESIGNATION M43. SIZE NO. 2 (2-1/2" TO 1-1/2").
	PRIOR TO CONSTRUCTION THE PROPOSED LIMIT OF DISTURBANCE (LOD) SHALL BE DELINEATED AND STAKED IN THE FIELD. THE BOUNDARY OF ANY ADJACENT WETLANDS ALSO BE STAKED.
	INSTALL STABILIZED ROCK CONSTRUCTION ENTRANCES AND FOLLOWING DETAIL AND SPECIFICATIONS ON ES-501. VEHICLES AND EQUIPMENT SHALL ENTER AND EXIT O MEANS OF THE STABILIZED ROCK CONSTRUCTION ENTRANCE. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING DEPOSIT ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE. PRIOR TO EARTHMOVING, INSTALL PERIMETER E&S CONTROLS, CONSISTING OF COMPOST FILTER SOCKS AND INLET PROTECTION.
	THE CONTRACTOR WILL INSPECT WEEKLY AND AFTER EACH RAIN EVENT, THE PROJECT'S EROSION AND SEDIMENTATION CONTROLS DURING THE ENTIRE ACTIVE CONSTR STAGES. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE INSTALLATION, OPERATION, MAINTENANCE, AND REMOVAL OF ALL EROSION AND SEDIMENTATION CON THROUGHOUT THE ENTIRE CONSTRUCTION PROJECT. THE CONTRACTOR MUST IMMEDIATELY REPAIR ANY DAMAGED EROSION CONTROLS (BMPS). SEDIMENT REMOVED FROM THE BMPS SHALL BE DISPOSED OF IN LANDS AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS, OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED OR PLACED IN TOPSOIL STOCKPILES. CLEAR AND GRUB PROJECT AREA AS NECESSARY, INCLUDING TREE REMOVAL.
	INSTALL RELOCATED SANITARY SEWER FORCE MAIN PIPING AND CONNECT INTO EXISTING SYSTEM. PERFORM THE DEMOLITION/REMOVAL OF IMPACTED PAVEMENT AREAS AND SITE UTILITIES. PERFORM THE NECESSARY EXCAVATION AND GRADING FOR THE PROPOSED BUILDING ADDITION, PAVEMENT AREAS AND UTILITIES. CONSTRUCT SHALLOW DETENTION BASINS AND INSTALL ROCK FILTER BERMS TO PROTECT OUTLET STRUCTURES.
	INSTALL NEW PAVING INCLUDING MILL AND OVERLAY PORTION. ONCE BUILDING ADDITION IS COMPLETE AND ALL AREAS OF THE LIMIT OF DISTURBANCE RETURNED TO FINISHED GRADE, PERMANENTLY SEED ALL REMAINING DIST AREAS. SEED FOLLOWING PERMANENT SEEDING GUIDELINES OUTLINED ON ES-501. IF CONSTRUCTION IS TERMINATED OR SUSPENDED PRIOR TO CONSTRUCTION COMPLETION, ALL EXPOSED SOIL AREAS SHALL BE SEEDED WITH TEMPORARY SEEDING MULCHED IMMEDIATELY. SEED FOLLOWING TEMPORARY SEEDING GUIDELINES ON ES-501. STABILIZATION FOR THIS PROJECT SHALL CONSIST OF REVEGETATION OF DISTURBED AREAS. FINAL STABILIZATION OF VEGETATED AREAS WILL OCCUR WHEN A M
	UNIFORM 70% PERENNIAL VEGETATIVE COVER, WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION. PAVEMENT AREAS SH. CONSIDERED STABILIZED WITH THE INSTALLATION OF THE GRAVEL SUBBASE LAYER.

STANDARD E&S PLAN NOTES

NOTE: A COPY OF THE EROSION AND SEDIMENTATION CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE DURING CONSTRUCTION UNTIL THE SITE IS STABILIZED. GROUND COVER

AFTER THE EARTH DISTURBANCE ACTIVITY IS COMPLETED, THE DISTURBED AREA MUST BE REVEGETATED. THE VEGETATIVE COVER MUST BE A UNIFORM 70% PERENNIAL VEGETATIVE COVER, WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION.

TEMPORARY SEEDING TEMPORARY SEEDING WILL BE PERFORMED DURING THE GERMINATION SEASON (APRIL TO OCTOBER) FOR THE ESTABLISHMENT OF GRASS SEED ON DISTURBED AREAS BEFORE THE START OF THE DORMANT SEASON. DURING THE NON-GERMINATION SEASON, MULCH SHALL BE APPLIED TO THE DISTURBED SURFACES AND THE SEED MIXTURE WILL BE ADDED AT THE START OF THE GERMINATION PERIOD.

• ALL GRASS AREAS DISTURBED BY THE WORK OF THIS PROJECT SHALL BE SEEDED AS FOLLOWS: O APPLY AGRICULTURAL LIME AND FERTILIZER AS FOLLOWS FOR TEMPORARY SEEDING:

♦ AGRICULTURAL LIME - 40 POUNDS PER 1,000 SQUARE FEET ♦ FERTILIZER - 12.5 POUNDS PER 1,000 SQUARE FEET

O FERTILIZER SHALL BE A COMMERCIAL TYPE 10-10-10.

TEMPORARY SEED MIXTURE ANNUAL RYEGRASS -- 1 POUND PER 1,000 SQUARE FEET.

• ALL TEMPORARY SEEDING SHALL BE MULCHED. TEMPORARY SEEDING SHALL BE WATERED AS REQUIRED TO DEVELOP COVER. NON-POTABLE UTILITY WATER SHALL BE PROVIDED BY THE CONTRACTOR.

• MULCH SHALL BE STRAW, SHALL BE CLEAN AND FREE FROM NOXIOUS WEEDS, AND SHALL BE APPLIED AT THE RATE OF 140 POUNDS PER 1,000 SQUARE FEET.

O APPLICATION OF MULCH SHALL BE USED IN CONJUNCTION WITH CRIMPING, A TACKIFIER OR A SIMILAR METHOD IN ORDER TO PREVENT MULCH FROM BEING WINDBLOWN.

PERMANENT SEEDING

PERMANENT SEEDING SHALL TAKE PLACE IN ALL DISTURBED AREAS AS FOLLOWS:

XTURE	SPECIES	SEEDING RATE - PURE LIVE SEE			
JMBER	SPECIE S	MOST SITES	ADVER SE SITE S		
	SPRING OATS (SPRING) or	64	96		
1 ³	ANNUAL R YEGRASS (SPRING or FALL), or	10	15		
	WINTER WHEAT (FALL), or	90	120		
	WINTER RYE (FALL)	56	112		
	TALL FESCUE, or	60	75		
	FINE FESCUE, or	35	40		
2 ⁴	KENTUCKY BLUEGRASS, plus	25	30		
	REDTOP ⁵ , or	3	3		
	PERENNIAL RYEGRASS	15	20		
3 ⁶	BIRDSFOOT TREFOIL, plus	6	10		
3	TALL FESCUE	30	35		
3	FROM TABLE 11.4 N PADEP EROSION AND SEDM MARCH 2012 PURELIKE SEED(PLS) IS THE FRODUCT OF THE R GERMINATION DVIDED BY 100. ALL MRTURES N NURSE CROPE HIGH OLILITY SEDED IS USED. OF PER ACRE WINTER WHEAT AT 11.5 BUSHELS THE GERMINATION IS BELOW 50%, INCREASE THESES THE MOTIVE IS SUITABLE FOR FROLING THESE NEEDING RATE TO THE RECOMMENDED IN TA ARE VERY COMMENTIVE TO SEED SMALL QUARY	ERCENTAGE OF FURE SEED TIM THIS TABLE ARE SHOWN N THE R MOST SITES SEED SPRING OA RACRE, AND WINTER RYEAT 1 UGGESTED SEEDING RATES BY NG, DO NOT CUT SHORTER THA BUE THESE SPEDES HAVE NA	ES FERCENTAGE INS OF RLS. ITS AT A RATE OF 2 BUSHE BUSHEL FER ACRE. IF 0.5 BUSHEL FER ACRE. N.4 INCHES. IN 4 INCHES.		

• UPON COMPLETION OF EARTH DISTURBANCE ACTIVITIES, THE SITE SHALL BE IMMEDIATELY STABILIZED. • THE FOLLOWING SHALL BE SPREAD AND WORKED INTO THE TOPSOIL TO A DEPTH OF 2 TO 4 INCHES.

O AGRICULTURAL LIME - 240 POUNDS PER 1,000 SQUARE FEET

FOR SLOPES AND BANKS THAT ARE NOT INTENDED TO BE MOWED MAINTAINED.

O FERTILIZER - 25 POUNDS PER 1,000 SQUARE FEET • THE FERTILIZER SHALL BE A COMMERCIAL TYPE 10-20-20.

• NOTE - IF AGRICULTURAL LIME AND FERTILIZER HAVE BEEN APPLIED PREVIOUSLY TO THE GROUND WHERE THE PERMANENT SEED IS TO BE APPLIED, THE LIME AND FERTILIZER RATES SHALL BE REDUCED BY THE AMOUNT BY WHAT HAS BEEN APPLIED PREVIOUSLY. • PERMANENT SEED MIXTURE: THE FOLLOWING SEED MIXTURES SHALL BE APPLIED AS FOLLOWS:

O APPLY MULCH TO ALL PERMANENTLY SEEDED AREAS.

BMPS, OR MODIFICATION OF THOSE INSTALLED WILL BE REQUIRED.

O MATERIALS: STRAW, AIR-DRIED AND FREE FROM UNDESIRABLE SEEDS AND COURSE MATERIALS. APPLICATION: 140 POUNDS PER 1,000 SQUARE FEET.

 APPLICATION OF MULCH SHALL BE USED IN CONJUNCTION WITH CRIMPING, A TACKIFIER OR A SIMILAR METHOD IN ORDER TO PREVENT MULCH FROM BEING WINDBLOWN. • EROSION CONTROL BLANKETS SHALL BE USED ON SLOPES 3:1 (H:V) OR GREATER.

MAINTENANCE PROGRAM

EMERGENCY EROSION PROTECTION IF EROSION DOES OCCUR, THE CONTRACTOR SHALL REPAIR AND RESEED THOSE AREAS OR USE OTHER STABILIZATION METHODS AS REQUIRED. THE CONTRACTOR SHALL USE JUTE, WOOD FIBER, OR OTHER TIE DOWN FILTER NETTING ON TOP OF THE NEW SEED AS REQUIRED, REGARDLESS OF THE SLOPE OF THE LAND.

MULCHED AREAS SHALL BE CHECKED WEEKLY AND AFTER EACH RAIN EVENT FOR DAMAGE, UNTIL THE MULCHING IS NO LONGER NECESSARY FOR PROTECTION AGAINST EROSION. DAMAGED PORTIONS OF THE MULCH OR TIE DOWN MATERIALS SHALL BE REPAIRED AS SOON AS DISCOVERED. PERIODIC INSPECTION PROGRAM

THE CONTRACTOR WILL INSPECT THE PROJECT'S EROSION AND SEDIMENTATION CONTROLS WEEKLY AND AFTER EACH RAIN EVENT UNTIL THE SITE HAS ACHIEVED FINAL STABILIZATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE INSTALLATION. OPERATION. MAINTENANCE, AND REMOVAL OF ALL EROSION AND SEDIMENTATION CONTROLS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT REPAIR, REPLACEMENT, REGRADING, RESERVING, REMULCHING, AND RENETTING MUST BE PERFORMED IMMEDIATELY. SEDIMENT THAT HAS BEEN TRAPPED BY THE COMPOST SOCK WILL BE REMOVED AS REQUIRED. AND IN ALL CASES, BEFORE THE ACCUMULATION HAS REACHED HALF THE HEIGHT OF THE SOCK. COMPOST SOCK WILL BE RE-ANCHORED, REPAIRED, OR REPLACED AS NECESSARY. SEDIMENT MUST BE REMOVED FROM SILT SACKS AFTER EACH RUNOFF EVENT, OR WHEN THE DISTANCE BETWEEN THE GRATE AND THE SEDIMENT LEVEL IN THE SILT SACK IS REDUCED TO 18". SILT SACKS WILL BE REPAIRED, OR REPLACED AS NECESSARY. ALL OTHER CONTROLS WILL BE INSPECTED ON THE SAME SCHEDULE. IF EROSION AND SEDIMENT CONTROL BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT

MAINTENANCE OPERATIONS

AS PART OF THE LONG TERM OPERATION AND MAINTENANCE, ROUTINE MAINTENANCE INSPECTIONS WILL BE REQUIRED TO INSURE THE EFFICIENCY OF ALL THE SEDIMENT CONTROL DEVICES. AT A MINIMUM, ALL BMP'S SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH MEASURABLE RUNOFF EVENT, INCLUDING THE REPAIR OF THE BMP'S TO ENSURE EFFECTIVE AND EFFICIENT OPERATION. THIS INSPECTION SHALL BE FOLLOWED UP WITH A REPAIR SCHEDULE OF ALL NOTED DEFICIENCIES. VEGETATION PROGRESS SHALL ALSO BE INCLUDED IN THIS INSPECTION. VOID AREAS SHALL PROMPTLY BE RESEEDED AND MULCHED TO ESTABLISH PROTECTION. BMP'S THAT FAIL AFTER INSTALLATION MUST BE REPAIRED TO FUNCTION PROPERLY OR BE REPLACED BY ALTERNATIVE BMP'S THAT WILL SERVE THE INTENDED PURPOSE. IF

UNFORESEEN CONDITIONS OCCUR ON A SITE, AND THE INSTALLED BMP'S ARE OBVIOUSLY NOT EFFECTIVE, THEN ALTERNATE BMP'S MUST BE DESIGNED AND INSTALLED. THE NEED FOR REDESIGN WILL BE DETERMINED ON A CASE-BY-CASE BASIS. REMOVAL OF CONTROLS AND CONTINUING MAINTENANCE

ALL REQUIRED TEMPORARY EROSION AND SEDIMENTATION CONTROLS SHALL REMAIN IN PLACE AND BE MAINTAINED UNTIL THE AREA THEY PROTECT HAS BEEN STABILIZED. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST BE STABILIZED IMMEDIATELY.

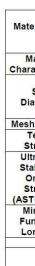
STABILIZATION FOR THIS PROJECT SHALL CONSIST OF REVEGETATION OF DISTURBED AREAS. FINAL STABILIZATION OF VEGETATED AREAS WILL OCCUR WHEN A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER, WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION. PAVEMENT AREAS SHALL BE CONSIDERED PERMANENTLY STABILIZED WITH THE INSTALLATION OF THE GRAVEL SUBBASE.

REVEGETATION SHALL OCCUR AS SOON AS PRACTICAL AFTER COMPLETION OF THE FINAL GRADING. SHOULD CONDITIONS PROHIBIT PERMANENT REVEGETATION EFFORTS, THE AREA WILL BE TEMPORARILY STABILIZED THROUGH THE USE OF QUICK-GROWING GRASSES, NYLON EROSION CONTROL MATS OR SIMILAR MEASURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERMANENT STABILIZATION OF ALL AREAS EXPOSED OR DISTURBED DURING THE PROJECT. THE CONTRACTOR SHALL MAINTAIN ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL FACILITIES IN GOOD CONDITION UNTIL ESTABLISHMENT OF GROUND COVER OVER

TRIBUTARY AREAS. THIS WILL INCLUDE CLEANING AND, IF REQUIRED, REPAIR OF ANY SEDIMENT CONTROL BMPS, AND SEEDING OF ERODED AREAS, AS NECESSARY. PERMANENT EROSION AND SEDIMENTATION CONTROL MEASURES WILL BECOME THE RESPONSIBILITY OF THE FACILITY OWNER UPON COMPLETION OF ALL ASPECTS OF THE PROJECT. THIS WILL BE LIMITED TO MAINTENANCE OF THE LAWN AREA.

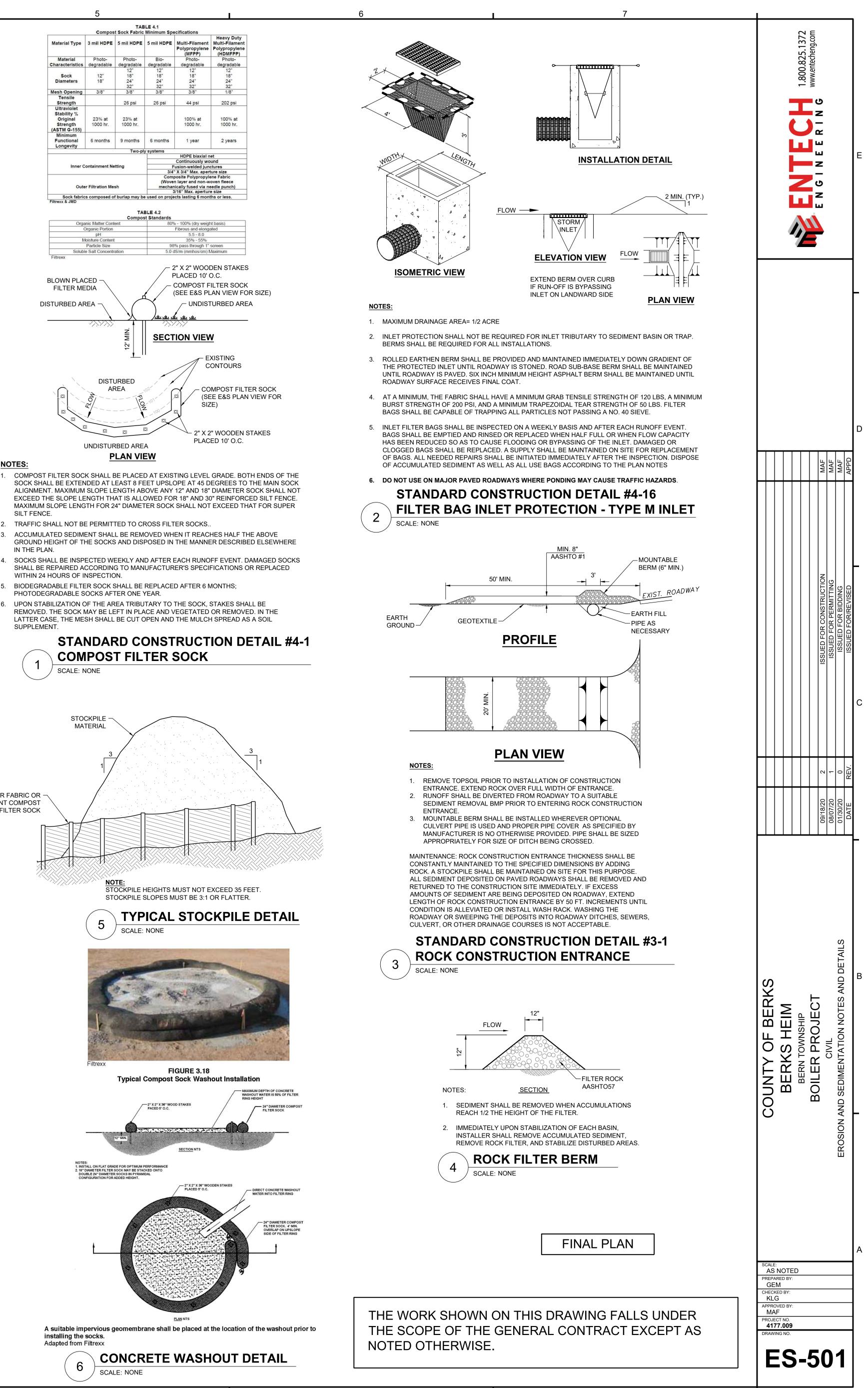
UNTIL THE SITE ACHIEVES FINAL STABILIZATION, THE CONTRACTOR SHALL ASSURE THAT THE BEST MANAGEMENT PRACTICES ARE IMPLEMENTED, OPERATED, AND MAINTAINED PROPERLY AND COMPLETELY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL BEST MANAGEMENT PRACTICE FACILITIES ON A WEEKLY BASIS AND AFTER EACH MEASURABLE RAINFALL EVENT. AND MAINTAIN AND MAKE AVAILABLE TO THE REVIEWING AGENCY COMPLETE, WRITTEN INSPECTION LOGS OF ALL THOSE INSPECTIONS. ALL MAINTENANCE WORK, INCLUDING CLEANING, REPAIR, REPLACEMENT, REGARDING, RESEEDING, AND RE-STABILIZATION SHALL BE PERFORMED IMMEDIATELY. **RECYCLING AND DISPOSAL METHODS**

• COLLECTED SEDIMENT WILL BE PLACED ON FILL SLOPES AND GRADED, SEEDED AND MULCHED AS NEEDED TO ATTAIN STABILIZATION. • THE CONTRACTOR SHALL REMOVE FROM THE SITES, RECYCLE OR DISPOSE OF ALL MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ., 271.1 E. SEQ. AND 287.1 ET SEQ.





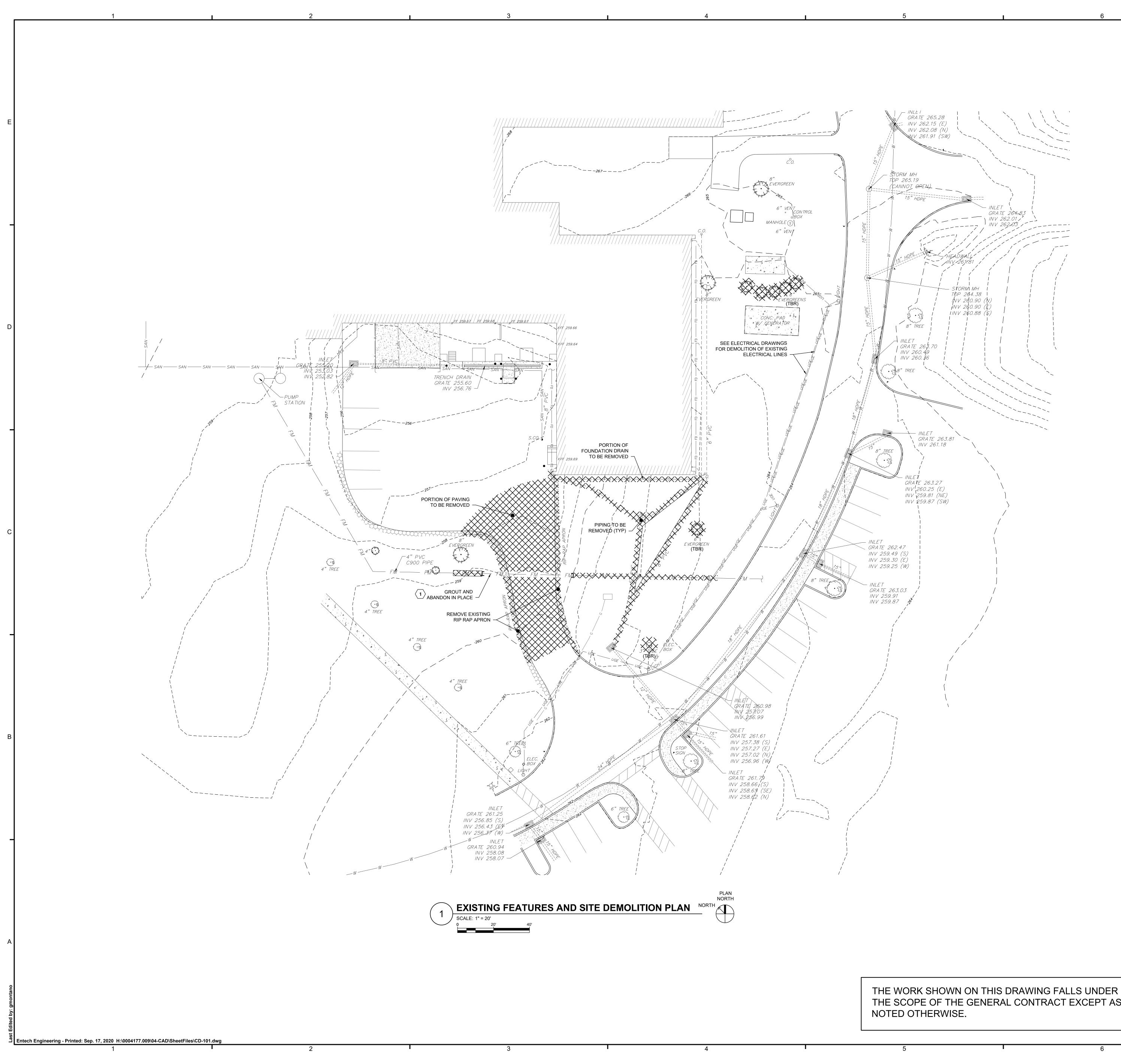




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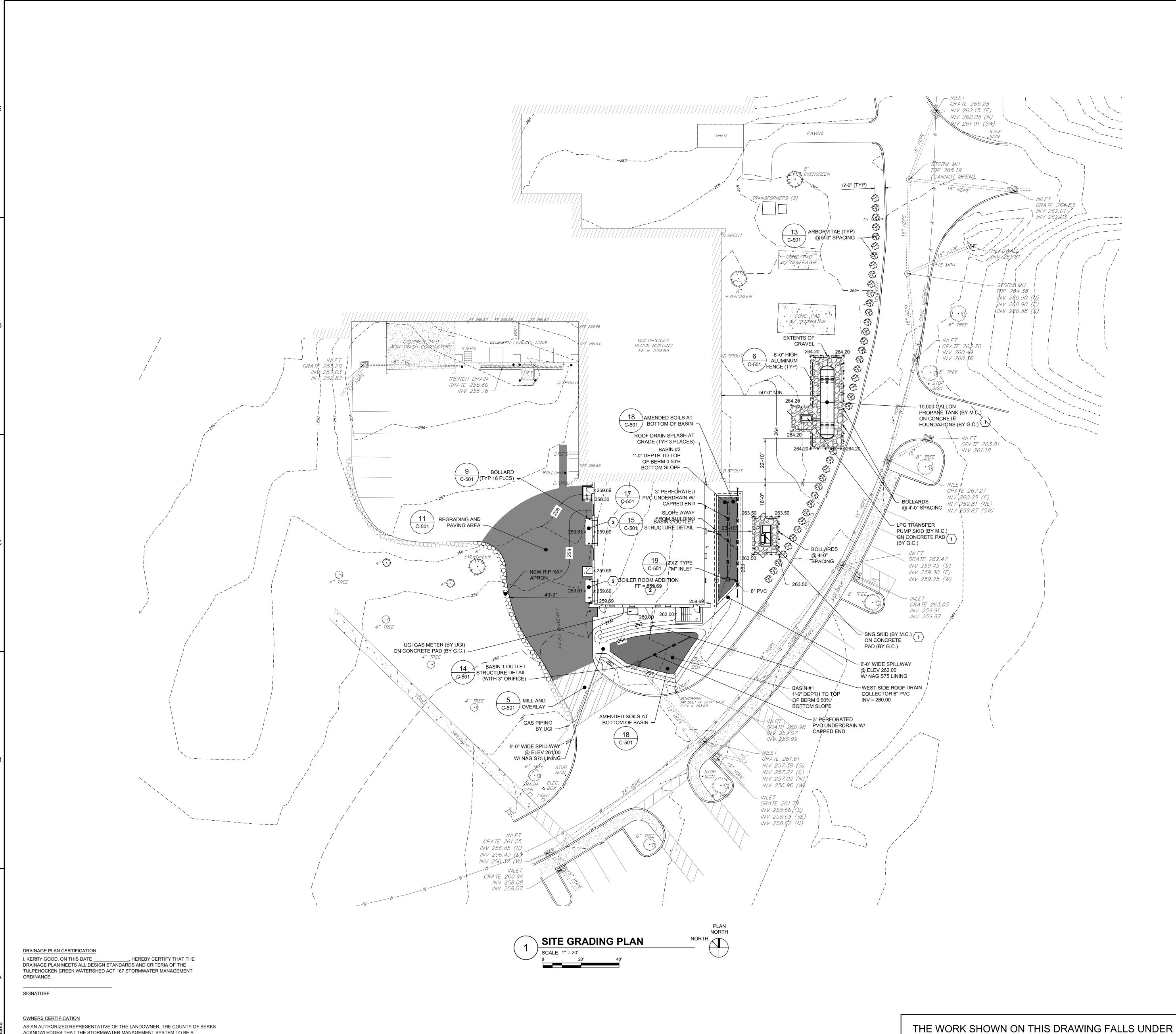


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ACKNOWLEDGES THAT THE STORMWATER MANAGEMENT SYSTEM TO BE A PERMANENT FIXTURE THAT CAN BE ALTERED OR REMOVED ONLY AFTER APPROVAL OF A REVISED PLAN BY THE MUNICIPALITY.

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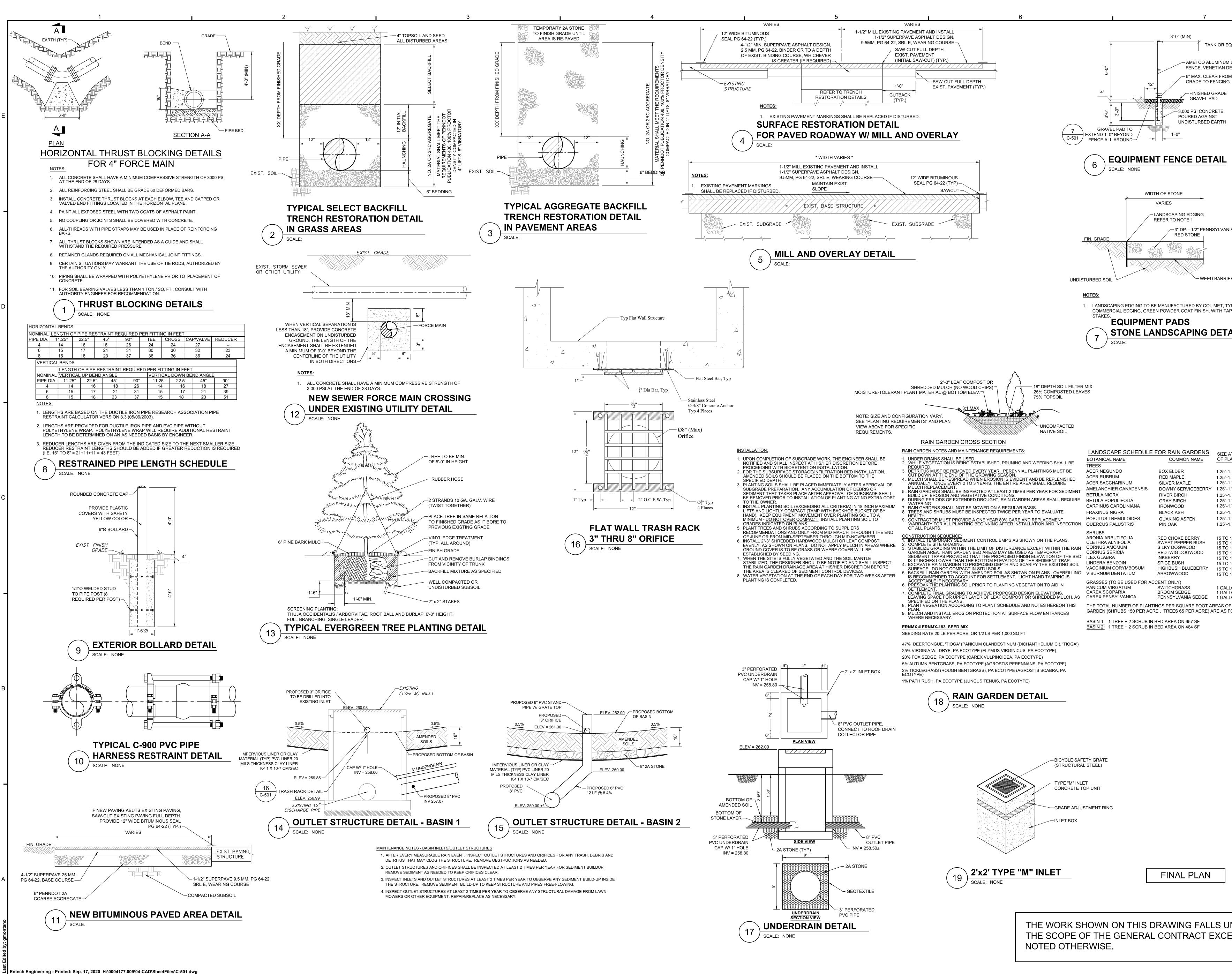
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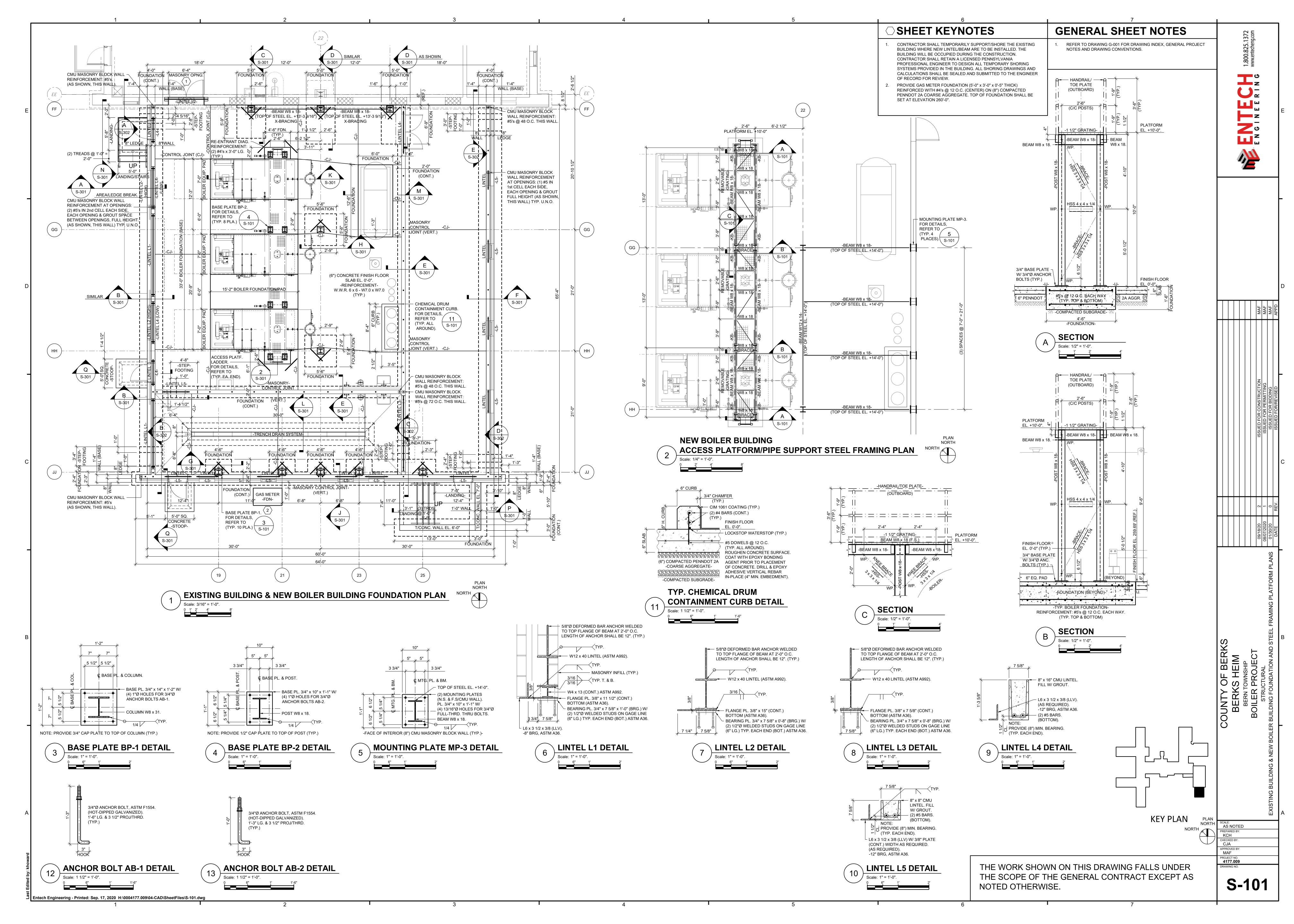
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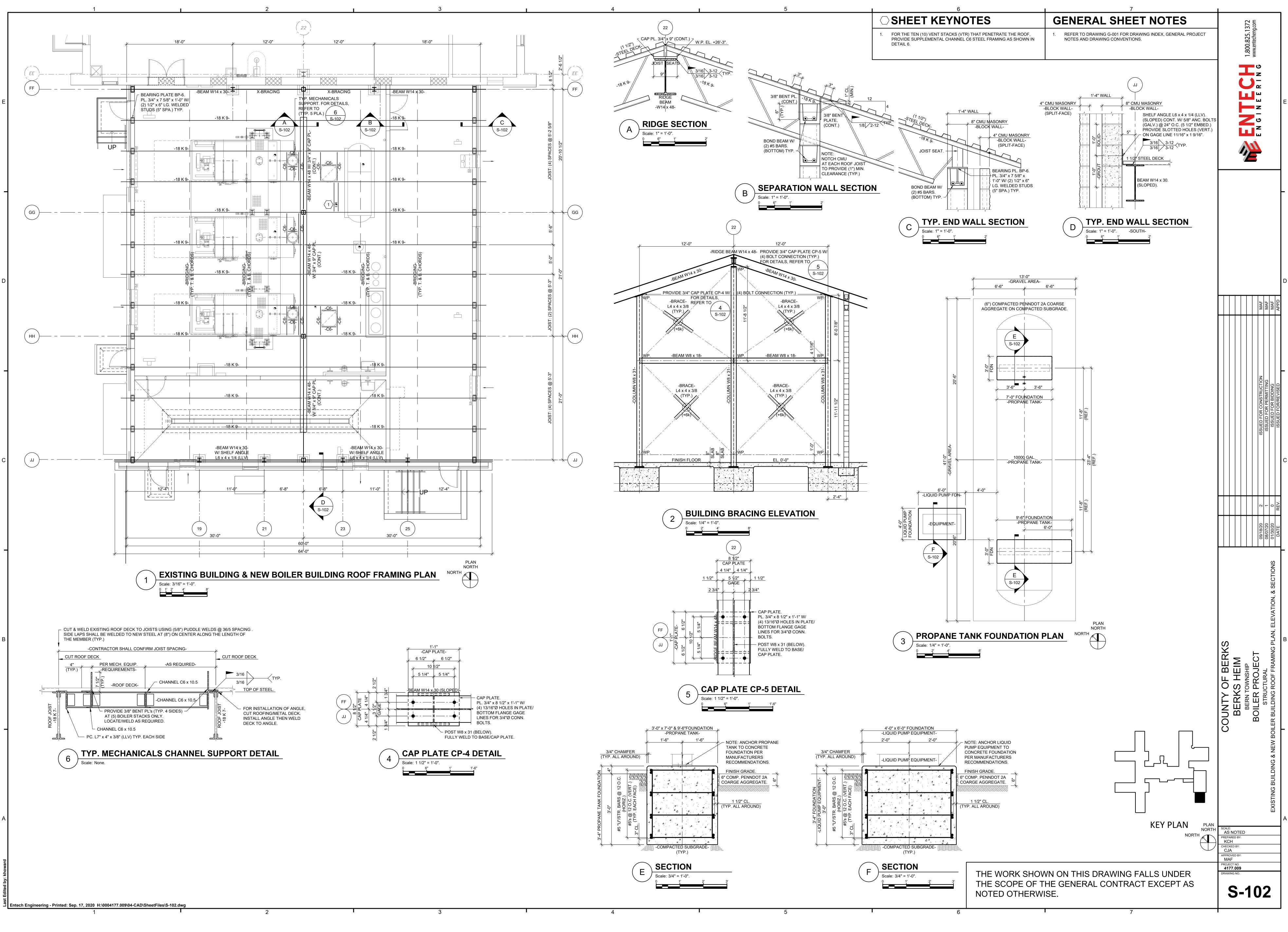
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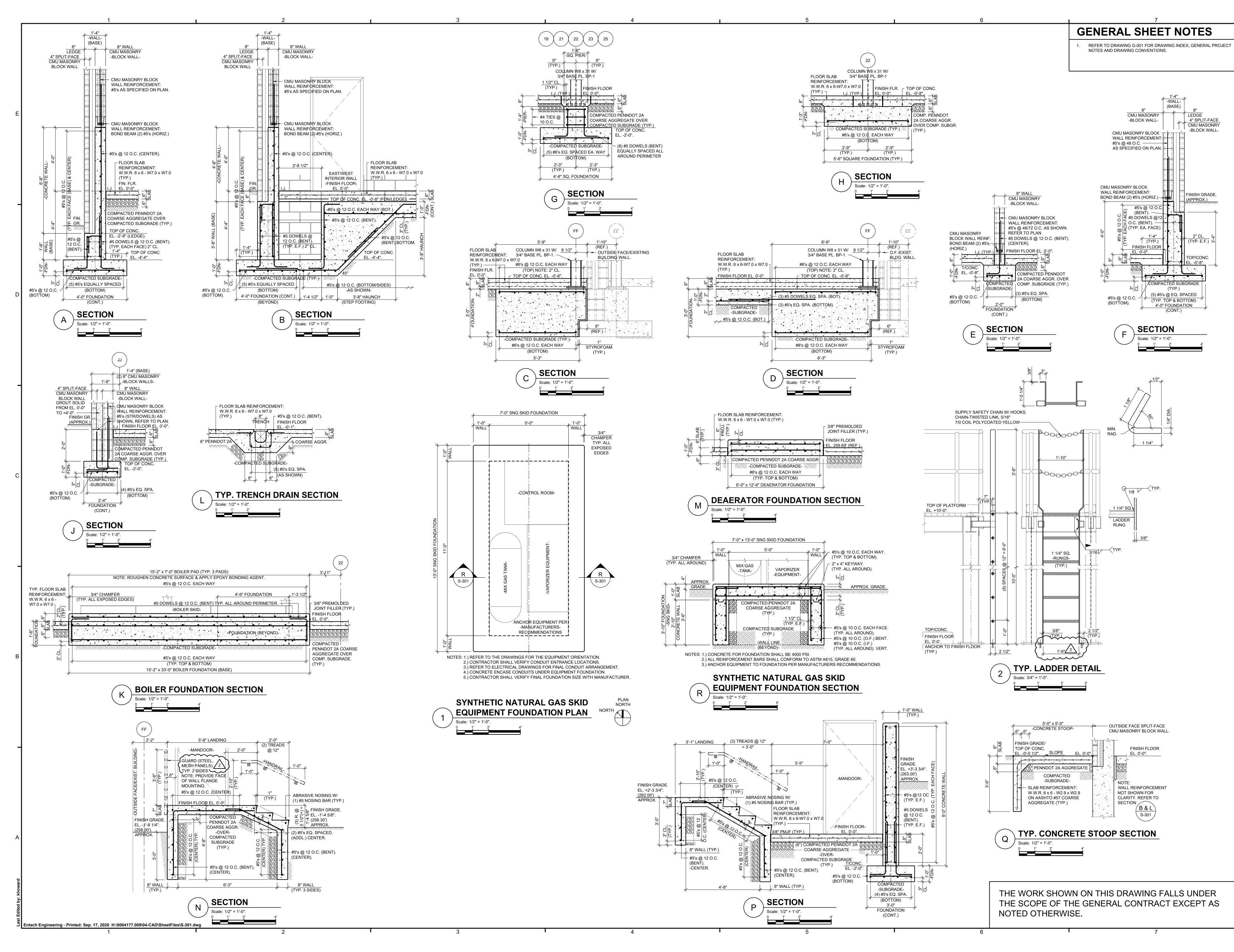
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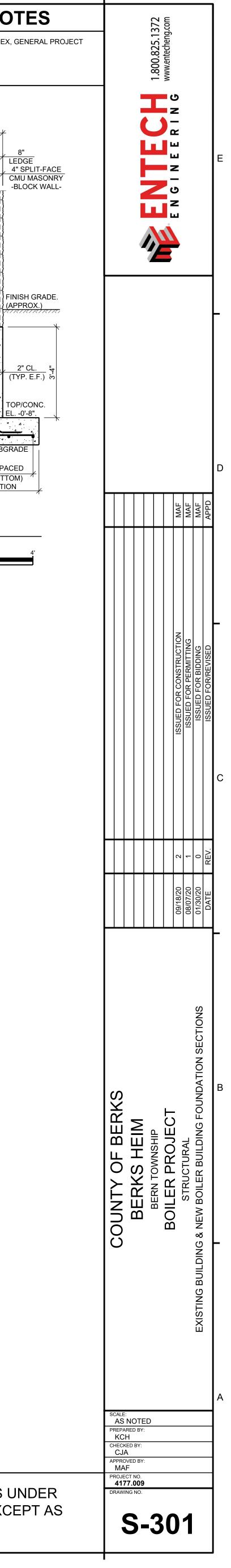


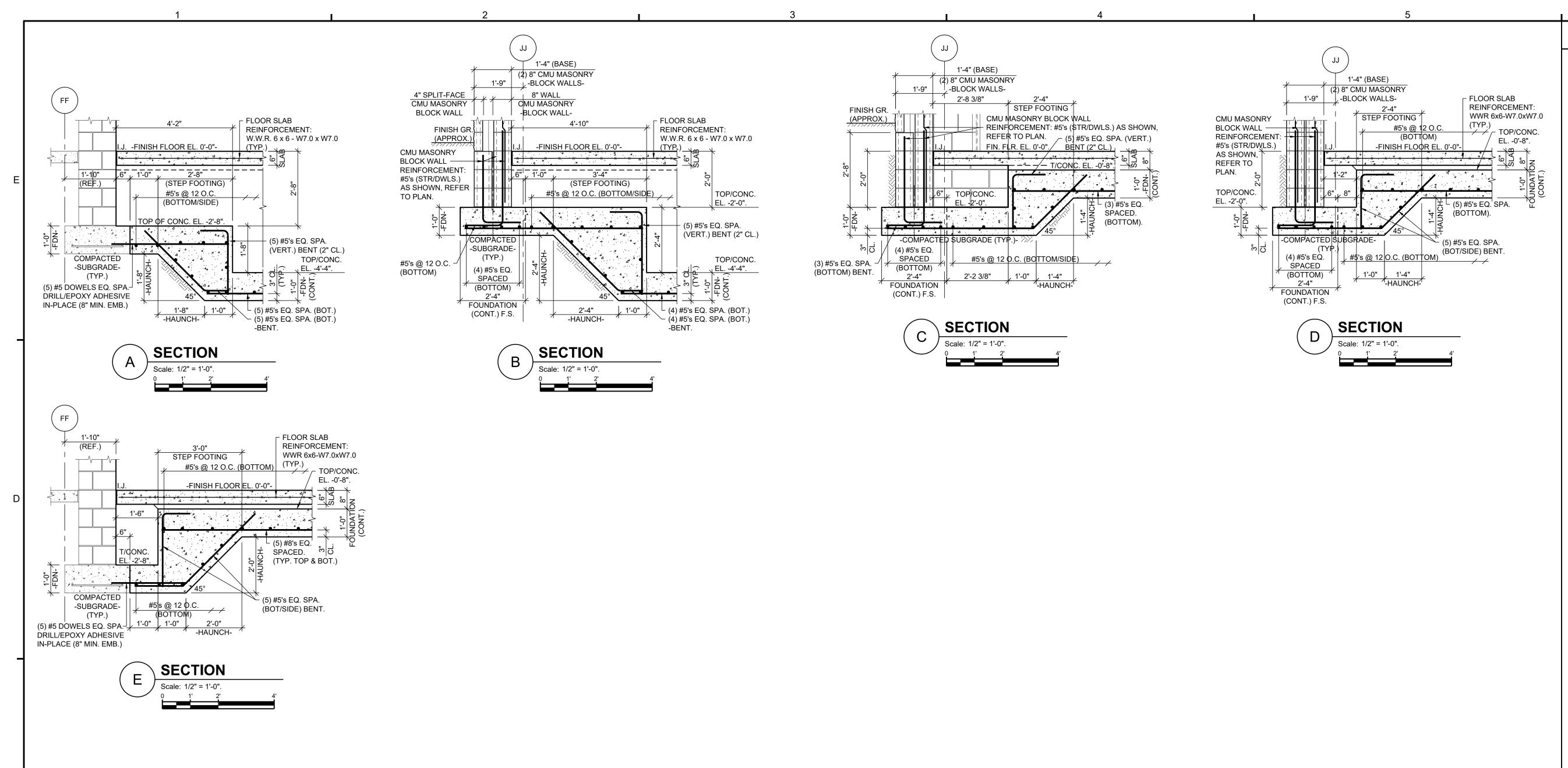
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NDER EPT AS	SCALE: AS NOTED PREPARED BY: GEM CHECKED BY: KLG APPROVED BY: MAF PROJECT NO. 4177.009 DRAWING NO.











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- SUBSURFACE INFORMATION AND FOUNDATION DESIGN ARE BASED ON THE GEOTECHNICAL REPORT PREPARED BY EARTH ENGINEERING, INC. DATED NOVEMBER 25, 2019 THAT SHOWS THE ALLOWABLE SOIL BEARING PRESSURE IS (3000) PSF.
- . THE STRUCTURAL BACKFILL BENEATH THE FOOTINGS SHALL BE COMPACTED SUBGRADE.
- BACKFILL MATERIAL SHALL BE COMPACTED TO (95%) PERCENT OF MAXIMUM DRY DENSITY PER ASTM D1557.
- CAST-IN-PLACE CONCRETE
- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 301 AND 318, LATEST EDITION.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT (28) DAYS. SLUMP RANGE FOR FOOTINGS: ONE (1") INCH to THREE (3") INCHES. SLUMP RANGE FOR PIERS: TWO (2") INCHES TO FOUR (4") INCHES. AIR CONTENT: SIX (6%) PERCENT, PLUS or MINUS (±) 1.0 PERCENT. WATER/CEMENT RATIO: 0.45
- 3. ALL REINFORCING BARS SHALL MEET THE REQUIREMENTS OF ASTM A615, GRADE 60. DETAILING SHALL CONFORM TO ACI 315, LATEST EDITION. ALL WELDED WIRE REINFORCING SHALL MEET THE REQUIREMENTS OF ASTM A1064.
- ALL CORNERS AND INTERSECTIONS PER ACI MANUAL OF STANDARD PRACTICE.
- 5. BAR CHAIRS, HIGH CHAIRS, SUPPORT BARS AND ALL OTHER ACCESSORIES SHALL BE PROVIDED IN ACCORDANCE WITH ACI AND CRSI STANDARDS.
- 5. BACKFILL AGAINST WALLS SHALL BE DEPOSITED EVENLY ON EACH SIDE UNTIL THE LOWER FINAL GRADE IS REACHED.
- 7. SIZE AND LOCATION OF ALL WALL AND FLOOR PENETRATIONS SHALL BE VERIFIED BY THE CONTRACTOR REQUIRING THE OPENING PRIOR TO PLACING OF CONCRETE.
- 8. CONTRACTOR SHALL PROVIDE LATERAL SUPPORT OF ALL CONCRETE WALLS UNTIL SUPPORTING ELEMENTS HAVE BEEN INSTALLED UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- ANCHOR BOLTS SHALL BE IN ACCORDANCE WITH ASTM F1554, HOT-DIPPED GALVANIZED.
- 10. NON-SHRINK, NON-METALLIC GROUT TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI.
- 11. FOR CONSTRUCTING CONCRETE PEDESTALS, ROUGHEN THE EXISTING CONCRETE SURFACE AND TREAT WITH APPROVED EPOXY BONDING COMPOUND FOR BONDING PRIOR TO PLACING CONCRETE.
- 12. CONTRACTOR SHALL PROVIDE CONTROL JOINTS IN SLAB. FLOOR SLAB SHALL BE POURED IN ALTERNATE SECTIONS.
- 13. ALL REINFORCING SPLICES SHALL BE IN ACCORDANCE WITH ACI 318.
- 15. FLOOR: CONCRETE SHALL BE AIR ENTRAINED (3% INTERIOR / 6% EXTERIOR).
- 16. FLOOR: CONCRETE SLUMP SHALL BE (2" TO 4") INCHES, PLUS OR MINUS ONE-HALF (1/2") INCH.
- 17. FLOOR: OVERALL FLOOR FLATNESS SHALL BE F20.
- 18. PROVIDE NO BURN MARKS ON SLAB SURFACE WHILE TROWELING.
- 19. FOR THE FLOOR, PROVIDE DAMP CURING, SEVEN (7) DAY CURE.
- 20. ISOLATION JOINTS (IJ) ARE (1/4") THICK JOINT FILLER STRIPS AND PLACED IN THE JOINT BETWEEN THE SLAB-ON-GRADE AND THE CONCRETE WALL AND AROUND THE COLUMNS.
- 21. RE-ENTRANT CORNER REINFORCEMENT SHOWN ON THE FLOOR PLAN SHALL BE (2) #4 x 3'-0" LONG DIAGONALS.
   <u>MASONRY</u>
- CONCRETE MASONRY UNITS SHALL BE NORMAL WEIGHT UNITS AND SHALL CONFORM TO ASTM C90 WITH A MINIMUM DESIGN COMPRESSIVE UNIT STRENGTH OF (1900) PSI AND A PRISM STRENGTH OF (1500) PSI. CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO THE FOLLOWING STANDARDS:
   A. "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, ACI 530, LATEST EDITION.
- B. "SPECIFICATIONS FOR MASONRY STRUCTURES", ACI 530.1.
  2. MORTAR FOR CONCRETE MASONRY SHALL CONFORM TO ASTM C270, TYPE S AT CONCRETE MASONRY UNITS.
- 3. REINFORCING FOR CONCRETE MASONRY SHALL CONFORM TO ASTM A615, GRADE 60. MINIMUM LAP SPLICE PER ACI 530.
- 4. GROUT FOR BOND BEAMS AND TO FILL CORES OF WALLS WITH REINFORCING SHALL CONFORM TO ASTM C476, WITH A MINIMUM COMPRESSIVE CYLINDER STRENGTH OF (3000) PSI AT (28) DAYS. GROUT SHALL BE VIBRATED AND RE-VIBRATED AFTER INITIAL WATER LOSS TO INSURE COMPLETE FILLING OF CORES. PROVIDE (2) #5 BARS IN ALL BOND BEAMS. BOND BEAMS SHALL BE PLACED AT THE TOP OF ALL WALLS.
- PLACE LADDER TYPE HORIZONTAL JOINT REINFORCING WITH PREFORMED LAPPED CORNER REINFORCING AT (16") C/C AND (8") C/C VERTICALLY IN ALL INTERIOR AND EXTERIOR MASONRY WALLS RESPECTIVELY, UNLESS NOTED OTHERWISE.
   A. JOINT REINFORCEMENT SHALL CONFORM TO ASTM A951, BE GALVANIZED, AND HAVE SIDE WIRES OF NINE (9) GAGE MINIMUM, CONFORMING TO A82, UNLESS NOTED OTHERWISE.
   B. ALL JOINT REINFORCING SHALL BE HOT-DIPPED GALVANIZED.
- 6. PROVIDE A CONTINUOUS BOND BEAM WITH TWO (2) #5's CONTINUOUS IN THE TOP COURSE OF ALL BLOCK WALLS, AT ALL LOCATIONS WHERE FRAMING MEMBERS ARE BOLTED TO FACE OF CMU WALLS.
- THE DISCONTINUED ENDS OF ALL MASONRY WALLS SHALL BE SOLIDLY GROUTED A MINIMUM OF EIGHT (8") INCHED OR ONE (1) BLOCK CELL AND REINFORCED FOR THEIR FULL HEIGHT WITH ONE (1) #7 BAR, UNLESS NOTED OTHERWISE.
- 8. GROUT FILL AT LEAST TWO (2) COURSES BELOW BOND BEAM BEARING LOCATIONS.
   9. WHERE CMU COMES INTO A COLUMN, WELD ANCHORS TO THE EXISTING COLUMN AT EIGHT (8") INCHES ON VERTICAL CENTERS. ANCHORS
- ALL PRECAST CONCRETE LINTELS SHALL BE CONSTRUCTED FROM 3000 PSI CONCRETE.

## GENERAL SHEET

REFER TO DRAWING G-001 FOR DRAWING INE NOTES AND DRAWING CONVENTIONS.

# **GENERAL STRUCTURA**WELDING ALL WELDING SHALL BE IN ACCORDANCE WITH WELDING CODE" AWS D1.1 LATEST EDITION U

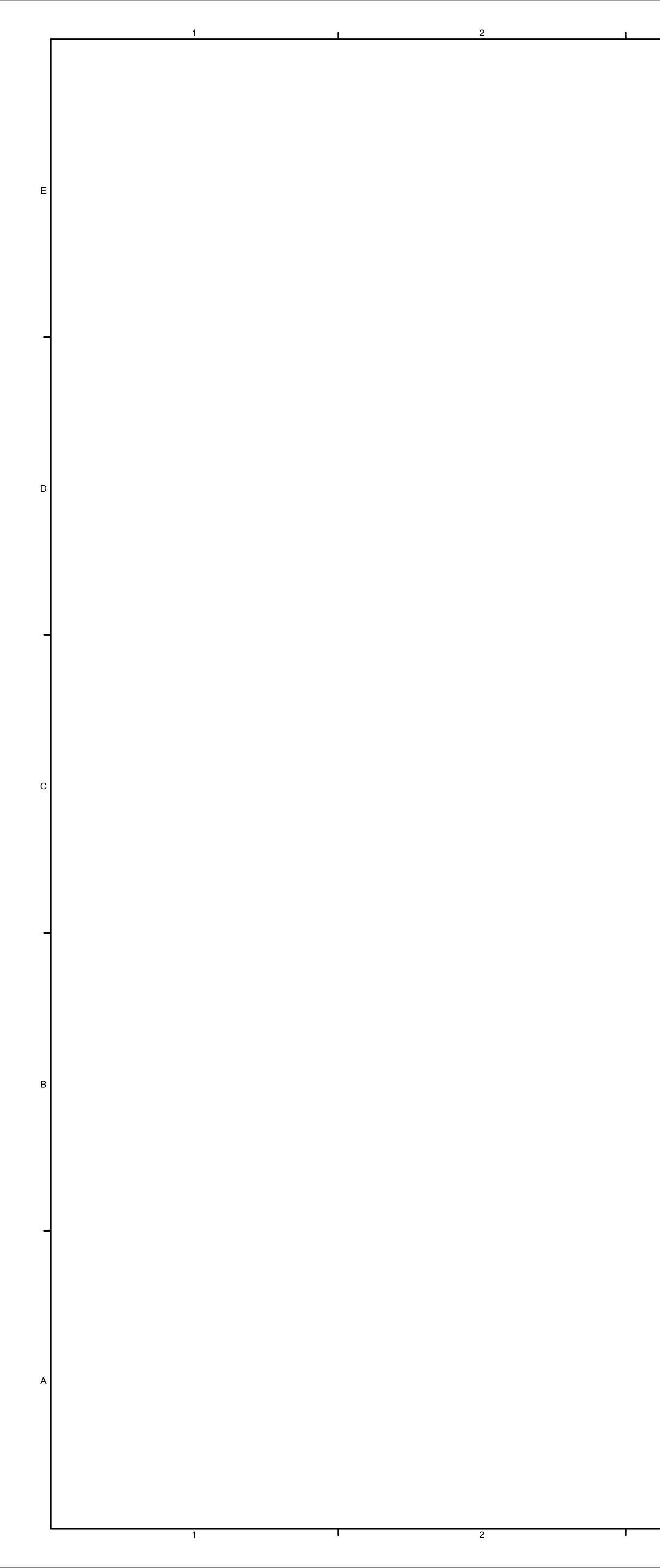
- WELDING CODE" AWS D1.1, LATEST EDITION U UNLESS SPECIFIC WELDING PROCEDURE REG
  2. PROPERLY PREPARE EXISTING STEEL BEFOR
- EXISTING. 3. ALL WELDERS USED ON THIS PROJECT SHALL
- WELDERS FOR THE TYPE OF WELDING BEING STRUCTURAL STEEL
- ALL STRUCTURAL STEEL WORK SHALL CONFO SPECIFICATION FOR STRUCTURAL STEEL FOR JUNE 22, 2010.
- 2. ALL WIDE FLANGE STRUCTURAL STEEL SHALL ALL OTHER STRUCTURAL STEEL SHALL CONFO CUT AND EXPOSED EDGES SHALL BE GROUND
- . TUBULAR STEEL SHALL CONFORM TO ASTM A SEAMS MUST BE GROUND SMOOTH.
- 4. STEEL ROOF DECK SHALL BE (1 1/2") DEEP, 18 ( "F" ROOF DECKING AS MANUFACTURED BY VUI EQUAL. THE DECKING SHALL BE WELDED TO TH AND PLATES AT 36/5 WELD SPACING USING (5/8 MECHANICALLY FASTEN SIDE LAPS USING (2) N SIDELAP SPAN. DECKING SHALL BE INSTALLED OF THE STEEL DECK INSTITUTE.
- CONNECTIONS:
   A. CONNECTIONS SHALL BE BEARING TYPE L DIAMETER.
   B. THE INSTALLATION AND TIGHTENING OF A
- SHALL CONFORM TO THE "SPECIFICATION JOINTS USING ASTM A325 BOLTS". C. THE FIELD BURNING OF COPES, CUTS, HO
- STEEL MEMBERS SHALL NOT BE PERMITT SPECIFICALLY AUTHORIZED BY THE ENGI D. BEAM CONNECTIONS NOT DETAILED SHAL PROVIDED TO SUPPORT A LOAD EQUAL TO UNIFORM LOAD FOR A GIVEN SIZE BEAM A AND DETAIL OF THE CONNECTIONS ARE S
- APPROVAL OF THE ENGINEER. ALL BASE PLATES & CAP PLATES SHALL BE WE
- 7. ALL LEVELING PLATES SHALL BE SHIPPED LOO
- 3. CONTRACTOR SHALL PROVIDE LATERAL SUPP
- MEMBERS UNTIL SUPPORTING ELEMENTS HAV9. ALL HIGH STRENGTH BOLTS TO BE IN ACCORD
- 10. ALL STRUCTURAL STEEL TO BE CLEANED AND SPECIFICATIONS. DO NOT PAINT STEEL AREAS CONCRETE OR WELDED. AFTER INSTALLATION THOSE AREAS WHICH NEED TO BE TOUCHED-U SCALE, LOOSE RUST OR OTHER FOREIGN MAT
- 11. PROVIDE DOUBLE CLIP ANGLES AT ALL CONNE
- 12. REPAINT ALL EXISTING STRUCTURAL ITEMS TH
- 13. ALL STEEL LINTELS SHALL BE HOT-DIPPED GAL
- STEEL JOISTS
- 1. MINIMUM BEARING OF K JOISTS SHALL BE (2 1/2 AND (4") OVER SUPPORTING MASONRY, UNLES STRUCTURAL DRAWINGS.
- JOISTS SHALL BE CONNECTED TO SUPPORTING 1" LONG FILLET WELDS (MIN.) OR WITH (2) 1/2"@ END (TYP.), EXCEPT ANY JOIST END FRAMING I JOISTS (S.J.), SHALL BE CONNECTED TO THE C COLUMN, BEAM, OR BEARING PLATE AT THE OF 1/2"Ø BOLTS FOR EACH JOIST END.
- 3. PROVIDE NUMBER OF ROWS AND TYPE OF HOP BRIDGING AS SHOWN ON THE STRUCTURAL DR ROWS SHALL BE EQUALLY SPACED. SIZES AND BRIDGING MEMBERS SHALL MEET THE LATEST STEEL JOIST INSTITUTE (SJI). SHOP PAINT ALL S PRIMER IN ACCORDANCE WITH THE SPECIFICA
- 4. PROVIDE ONE (1) ROW OF CONTINUOUS BOTTO NEAR THE FIRST BOTTOM CHORD PANEL POINT ACCORDANCE WITH SJI AS REQUIRED TO RESIS INDICATED IN ROOF DESIGN LOAD GENERAL NO
- ALL STEEL JOIST DESIGN, FABRICATION, AND E WITH THE OCCUPATIONAL SAFETY AND HEALTH (OSHA) NEW STEEL ERECTION STANDARDS.

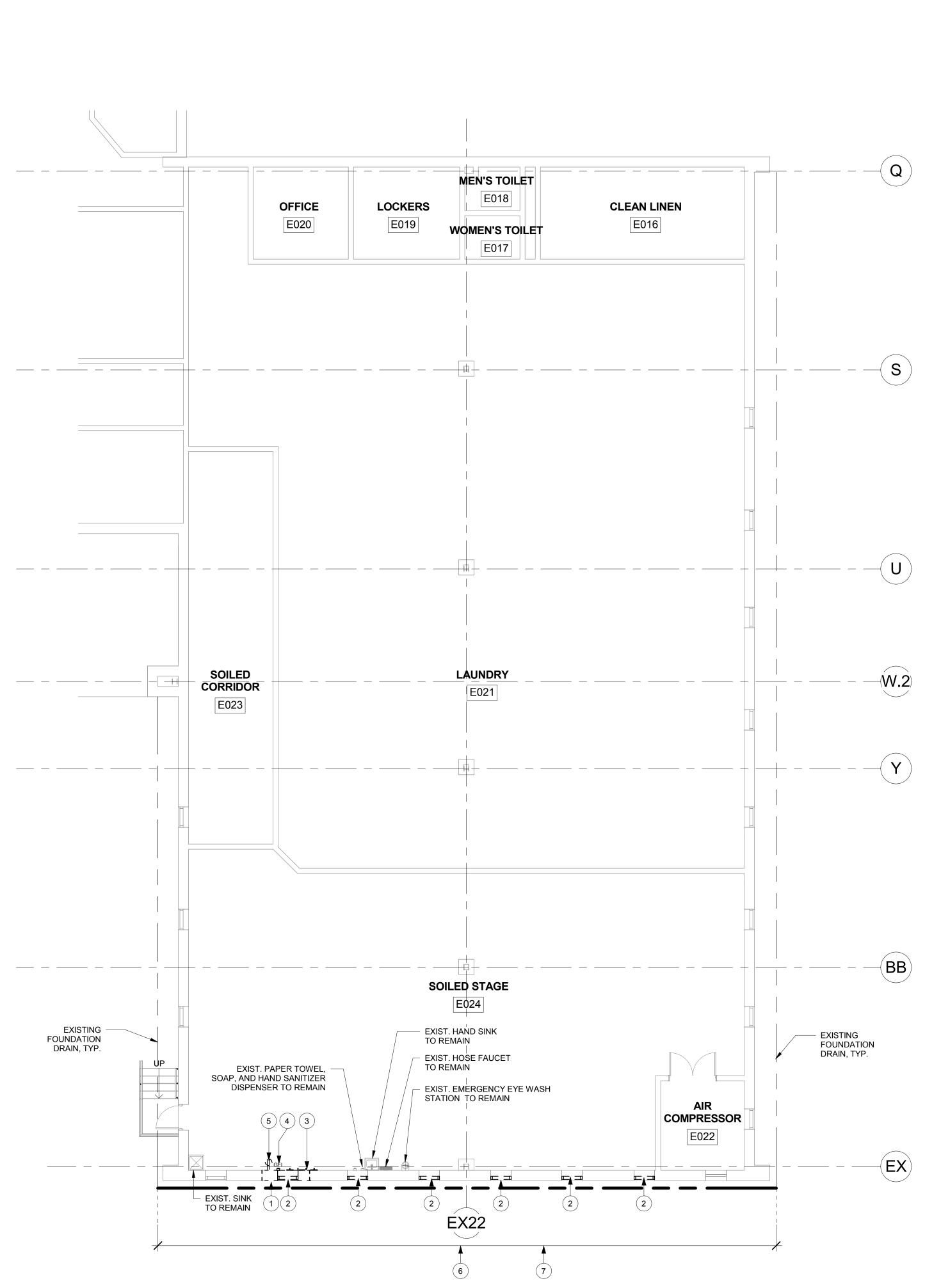
## **GENERAL NOTES**

- ROOF DESIGN LOADS: TOTAL DEAD LOAD = TOTAL SNOW LOAD = TOTAL DESIGN LOAD = TOTAL DESIGN LOAD =
   WIND NET UPLIFT ON JOISTS = 10 PSF.
   WIND LOAD BASED UPON A (115 MPH) BASIC EXPOSURE C IN ACCORDANCE WITH IBC 20
   RELOCATE UTILITIES IN THE WORK AREA AS
   CONTRACTOR SHALL TEMPORARILY SUPPOF
- MEMBERS THAT ARE TO REMAIN UNTIL PERM TO PERMANENT MEMBERS. 4. CONTRACTOR SHALL DEWATER ALL EXCAVA
- LEVEL TWO (2') FEET BELOW PROPOSED SUE PUMPS SHALL BE RUNNING (24) HOURS A DA 5. CONTRACTOR SHALL PROVIDE SHOP DRAWI
- CONTRACTOR SHALL PROVIDE ALL CONDUIT FOR ALL NEW AND EXISTING THAT NEED TO

THE WORK SHOWN ON THIS DRAWING FALLS THE SCOPE OF THE GENERAL CONTRACT EX NOTED OTHERWISE.

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L NOTES (CONT.)		
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L BE AWS CERTIFIED G DONE.		
ORM WITH THE AISC R BUILDINGS ADOPTED		
L CONFORM TO ASTM A992. ORM TO ASTM A36. ALL D SMOOTH. 1500, GRADE B. ALL WELD		
GAGE, GALVANIZED, TYPE JLCRAFT OR APPROVED THE STRUCTURAL STEEL /8"Ø) PUDDLE WELDS. No. 10 TEK SCREWS PER D PER THE REQUIREMENTS		
JSING A325 BOLTS 3/4" LL HIGH STRENGTH BOLTS N FOR STRUCTURAL		
ED UNLESS NEER. L BE DESIGNED AND O 1/2 THE TOTAL AND SPAN. ALL DESIGN SUBJECT TO THE	MAF MAF MAF APPD	
ELDED TO THE COLUMNS. OSE. PORT OF ALL STEEL VE BEEN INSTALLED.		
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IG STEEL WITH (2) 13/16" x Ø BOLTS FOR EACH JOIST INTO A COLUMN, STRUT COLUMN AND TO THE PPOSITE END WITH (2)		C
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OM CHORD BRIDGING ITS OF JOISTS IN IST NET UPLIFT FORCES IOTES.	09/18/20 08/07/20 01/30/20 DATE	
ERECTION SHALL COMPLY TH ADMINISTRATION		
= 15 PSF. = 30 PSF.	COUNTY OF BERKS COUNTY OF BERKS BERN TOWNSHIP BERN TOWNSHIP BOILER PROJECT STRUCTURAL STRUCTURAL BUILDING & NEW BOILER BUILDING FOUNDATION SECTIONS AND NOTES	
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ATIONS. MAINTAIN WATER BGRADE ELEVATION. AY, (7) DAYS A WEEK.	COUNTY OF BERKS BERKS HEIM BERN TOWNSHIP BOILER PROJECT STRUCTURAL EW BOILER BUILDING FOUNDATION	
INGS FOR ALL ITEMS. I AND PIPE SUPPORTS BE RE-SUPPORTED.	NTY OF BE ERKS HEII BERN TOWNSHIP ILER PROJE STRUCTURAL ER BUILDING FOU	
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1 DEMOLITION FLOOR PLAN 1/8" = 1'-0"

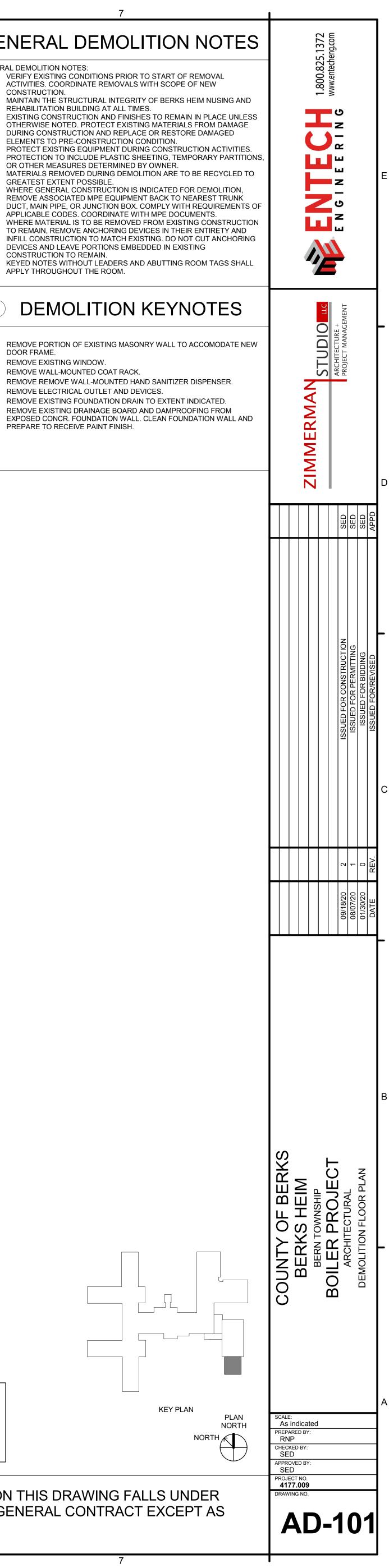
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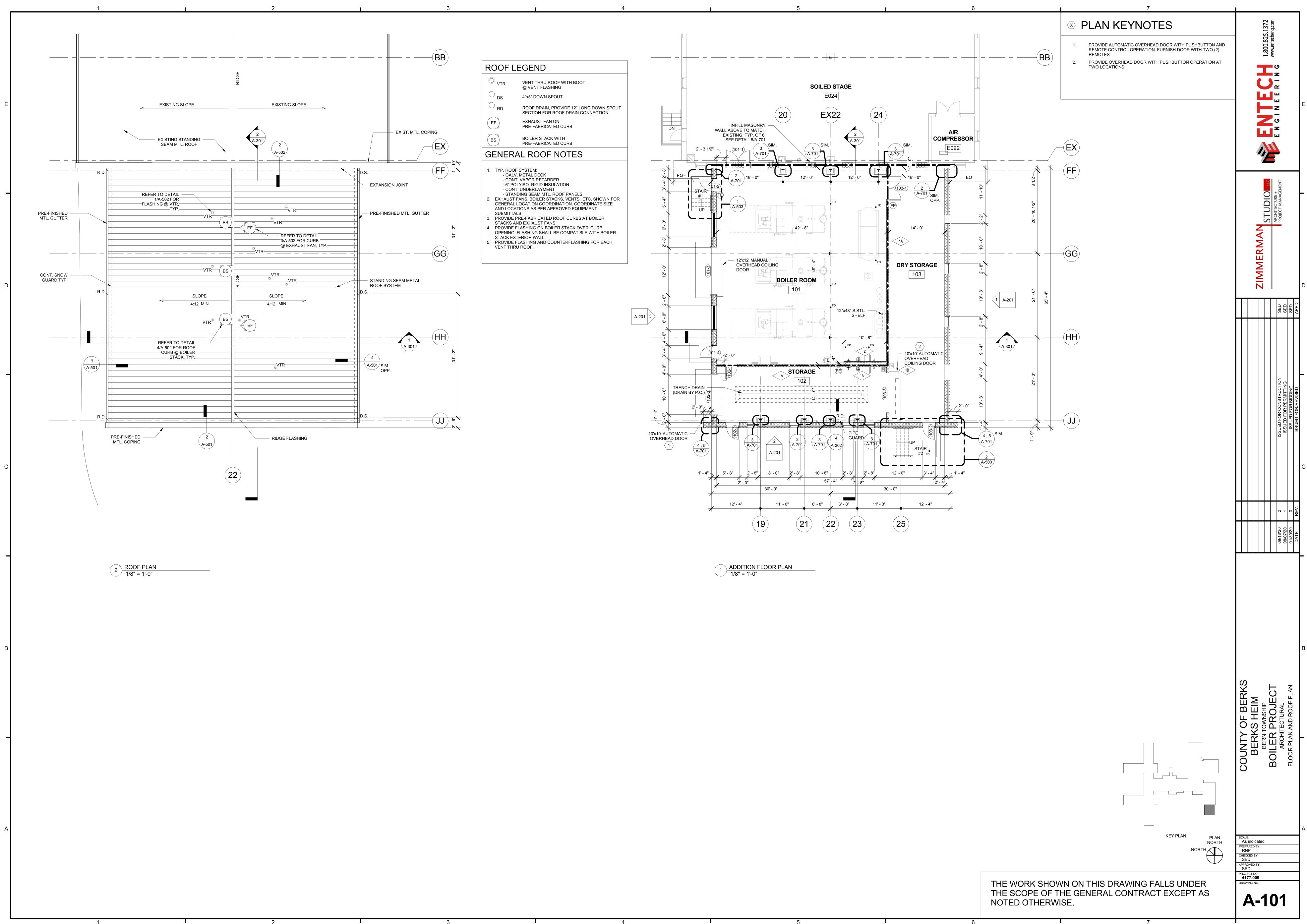
### GENERAL DEMOLITION NOTES GENERAL DEMOLITION NOTES: 1. VERIFY EXISTING CONDITIONS PRIOR TO START OF REMOVAL ACTIVITIES. COORDINATE REMOVALS WITH SCOPE OF NEW CONSTRUCTION. MAINTAIN THE STRUCTURAL INTEGRITY OF BERKS HEIM NUSING AND REHABILITATION BUILDING AT ALL TIMES. EXISTING CONSTRUCTION AND FINISHES TO REMAIN IN PLACE UNLESS OTHERWISE NOTED. PROTECT EXISTING MATERIALS FROM DAMAGE DURING CONSTRUCTION AND REPLACE OR RESTORE DAMAGED ELEMENTS TO PRE-CONSTRUCTION CONDITION. PROTECT EXISTING EQUIPMENT DURING CONSTRUCTION ACTIVITIES. PROTECTION TO INCLUDE PLASTIC SHEETING, TEMPORARY PARTITIONS, OR OTHER MEASURES DETERMINED BY OWNER. MATERIALS REMOVED DURING DEMOLITION ARE TO BE RECYCLED TO GREATEST EXTENT POSSIBLE. WHERE GENERAL CONSTRUCTION IS INDICATED FOR DEMOLITION, REMOVE ASSOCIATED MPE EQUIPMENT BACK TO NEAREST TRUNK DUCT, MAIN PIPE, OR JUNCTION BOX. COMPLY WITH REQUIREMENTS OF APPLICABLE CODES. COORDINATE WITH MPE DOCUMENTS. WHERE MATERIAL IS TO BE REMOVED FROM EXISTING CONSTRUCTION TO REMAIN, REMOVE ANCHORING DEVICES IN THEIR ENTIRETY AND INFILL CONSTRUCTION TO MATCH EXISTING. DO NOT CUT ANCHORING DEVICES AND LEAVE PORTIONS EMBEDDED IN EXISTING CONSTRUCTION TO REMAIN. KEYED NOTES WITHOUT LEADERS AND ABUTTING ROOM TAGS SHALL APPLY THROUGHOUT THE ROOM. ✗ DEMOLITION KEYNOTES REMOVE PORTION OF EXISTING MASONRY WALL TO ACCOMODATE NEW DOOR FRAME. REMOVE EXISTING WINDOW. REMOVE WALL-MOUNTED COAT RACK.

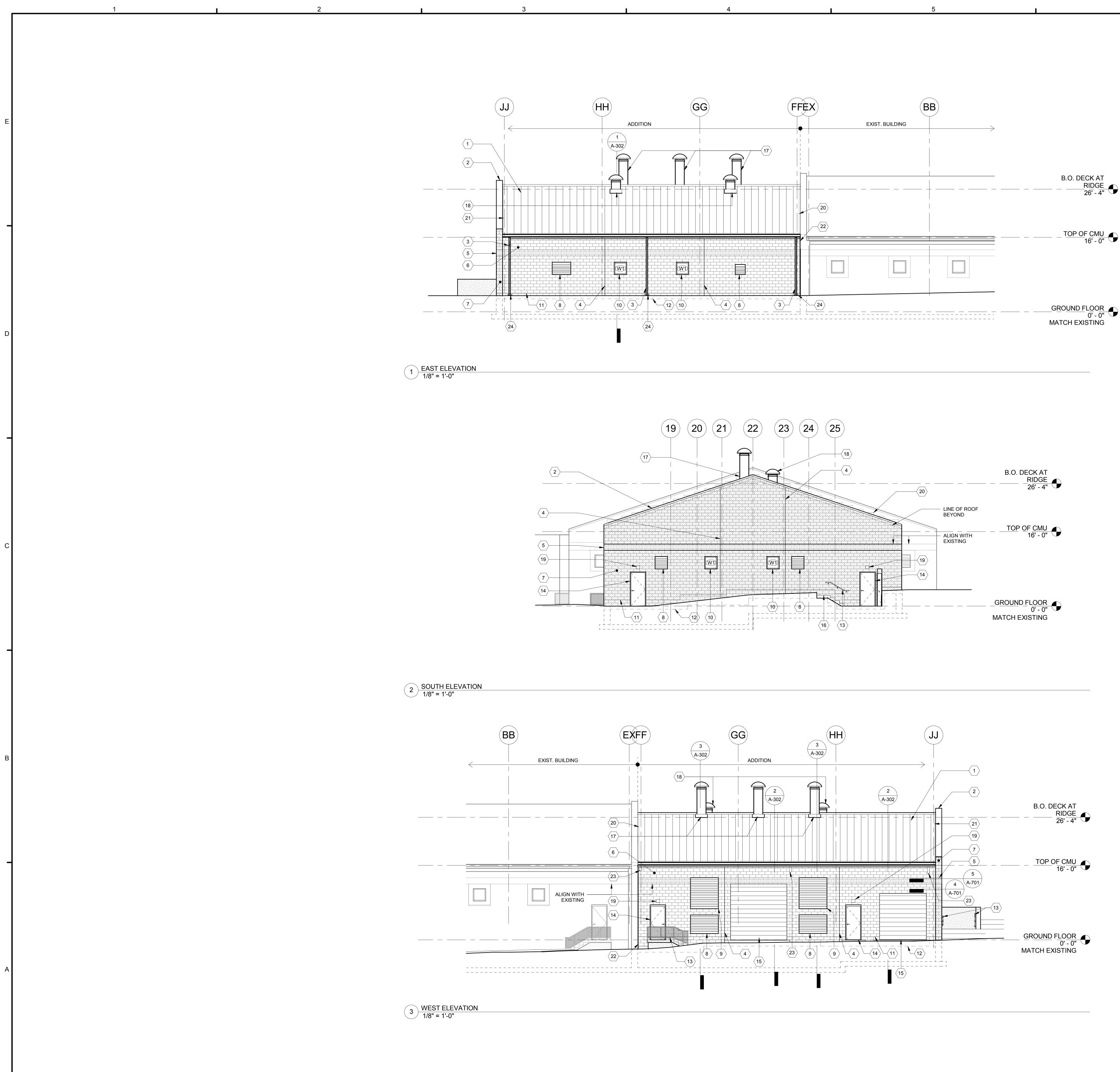
PREPARE TO RECEIVE PAINT FINISH.

SCHEDULE WORK IN OCCUPIED SPACES AFTER 3 PM.

THE WORK SHOWN ON THIS DRAWING FALLS UNDER THE SCOPE OF THE GENERAL CONTRACT EXCEPT AS NOTED OTHERWISE.

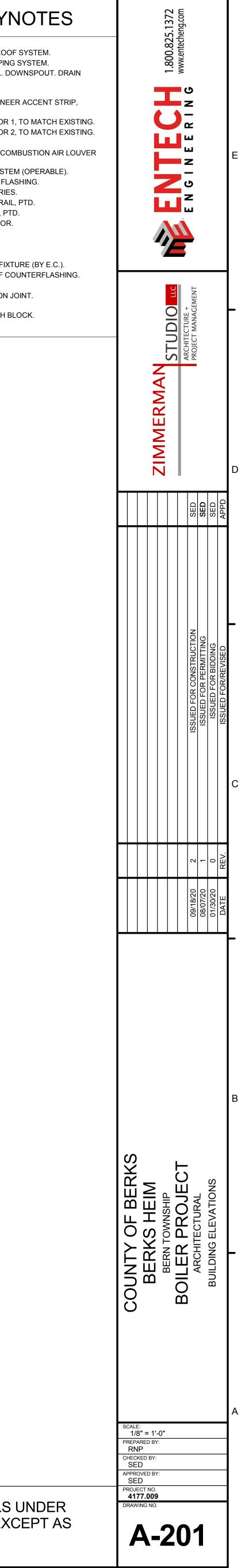


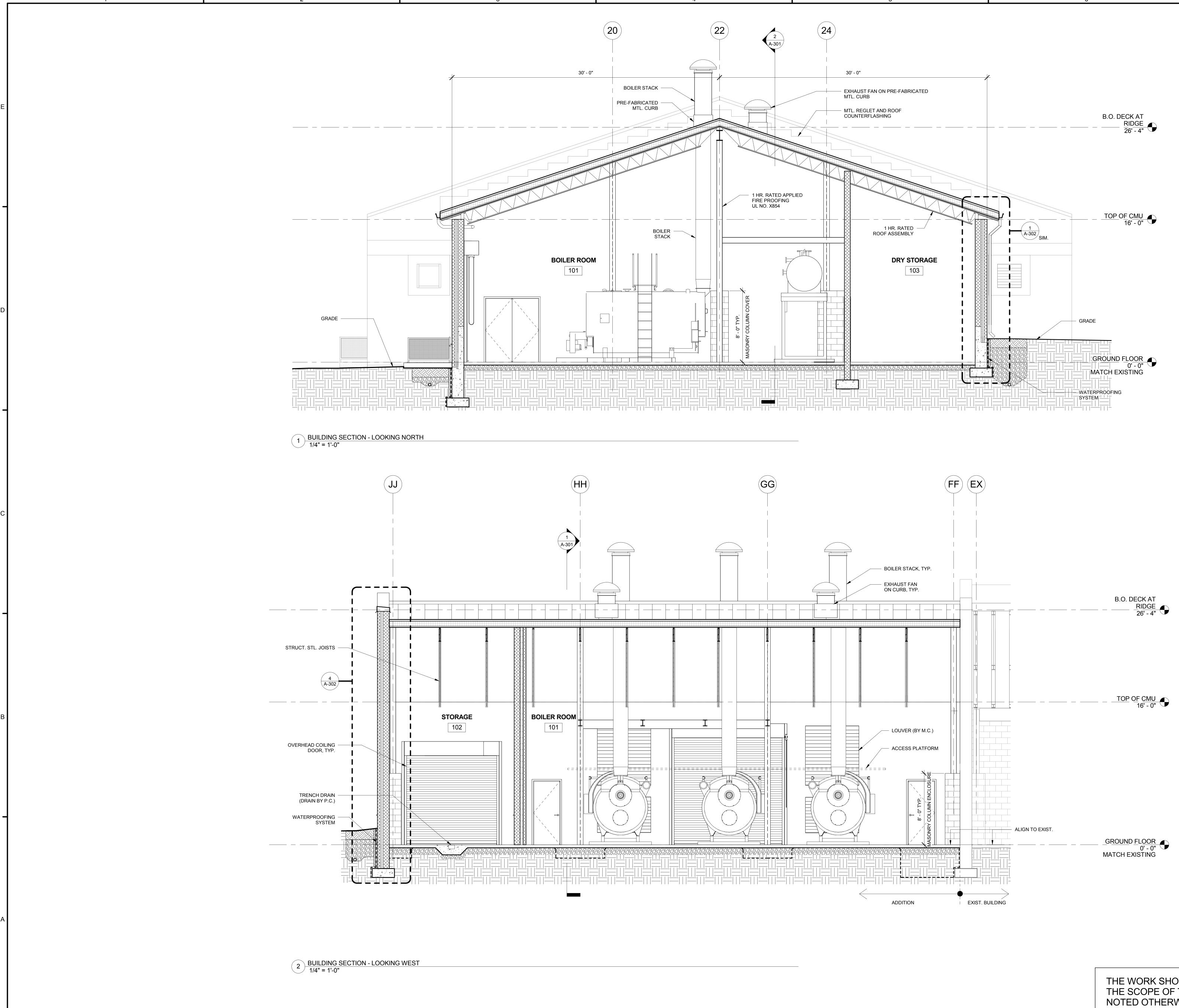




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	$= \frac{B.O. DECK AT}{RIDGE} 26' - 4'' $		$ \begin{array}{c} 1.\\ 2.\\ 3.\\ 4.\\ 5.\\ 6.\\ 7.\\ 8.\\ 9.\\ 10.\\ 11.\\ 12.\\ 13.\\ 14.\\ 15.\\ 16.\\ 17.\\ 18.\\ 19.\\ 20.\\ 21.\\ 22.\\ 23.\\ 24.\\ \end{array} $	STANDING SEAM MTL. ROOF PRE-FINISHED MTL. COPING PRE-FINISHED 4"x5" MTL. DC TO GRADE. CONTROL JOINT. 12"x4" UTILITY BRICK VENEE TO MATCH ADJACENT. DECORATIVE CMU COLOR 1 DECORATIVE CMU COLOR 2 LOUVER (BY M.C.). BUILDING VENTILATION/COM (BY M.C.). ALUMINUM WINDOW SYSTEI CONT. THROUGH-WALL FLAX BRICK SHELF, ELEV. VARIES MTL. GUARDRAIL/HANDRAIL H.M. DOOR AND FRAME, PTE OVERHEAD COILING DOOR. CONC. STAIR. BOILER STACK. EXHAUST FAN. WALL MOUNTED LIGHT FIXT MTL. REGLET AND ROOF CO MTL. ROOF FLASHING. PRE-FORMED EXPANSION JO ROOF DRAIN (BY P.C.). PRECAST CONC. SPLASH BL

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## GENERAL SHE

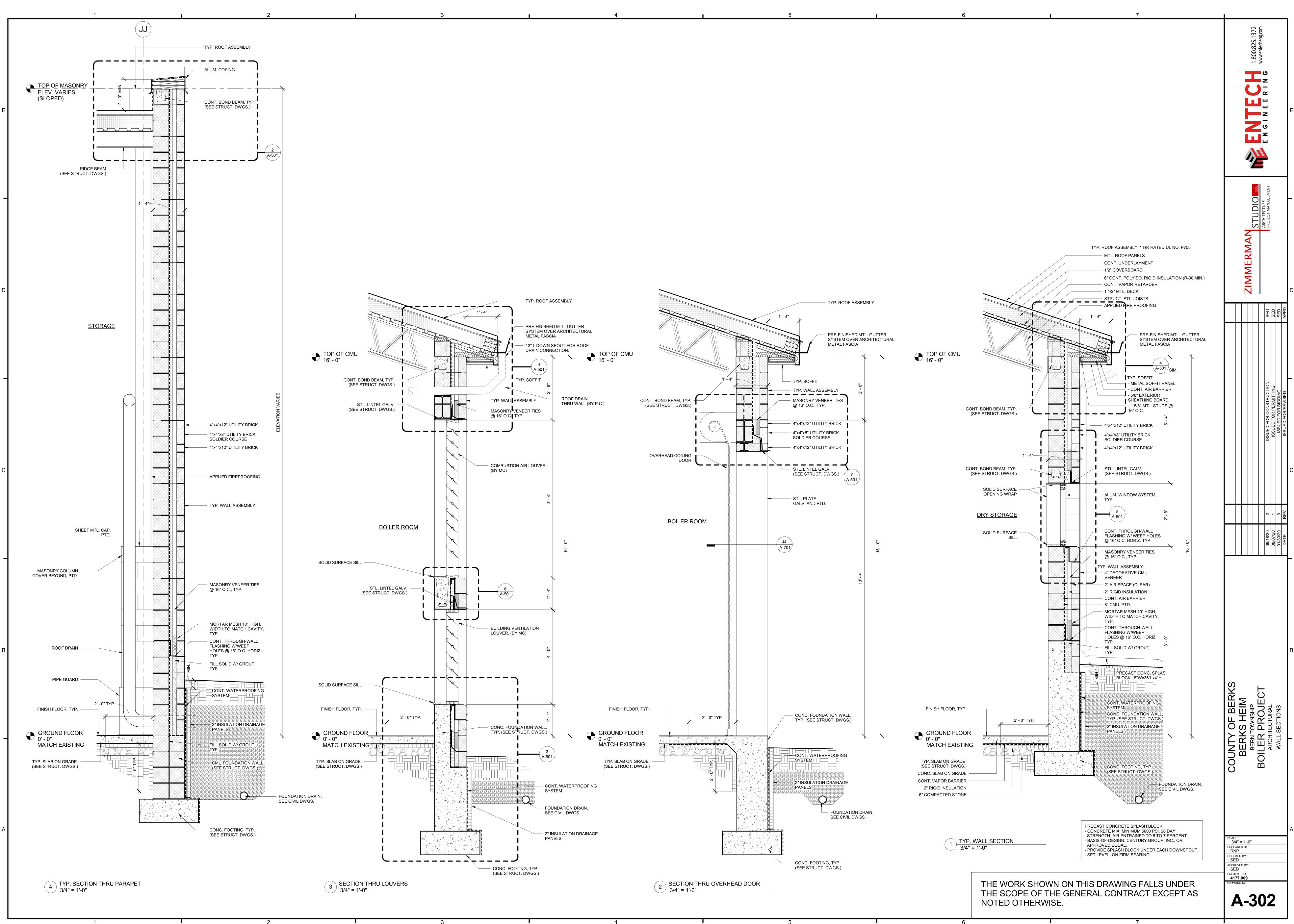
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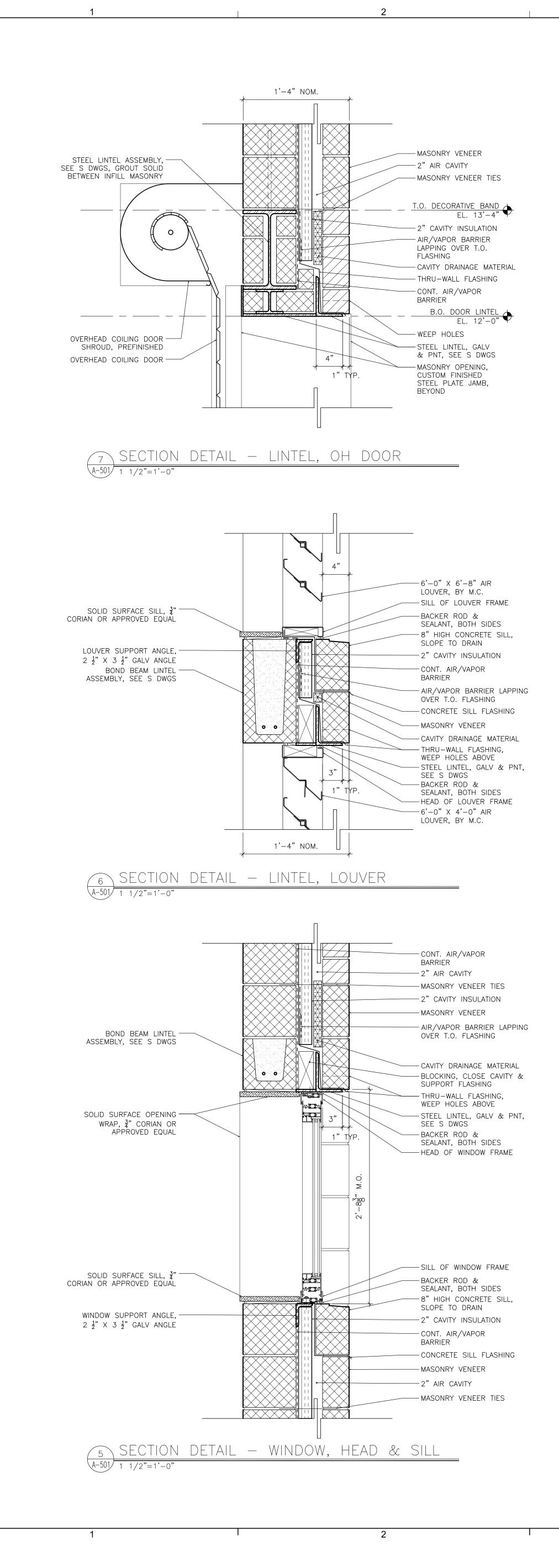
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- FOUNDATION DRAIN.
   AT EXTERIOR CMU BACK-UP WALLS: FLUID-APPLIED MEMBRANE AIR BAR MANUFACTURER'S INSTRUCTIONS. PENETRATIONS, AND EDGES. REF
- SECTION 072726. PROVIDE 1 HOUR RATED CEMENTIT FIREPROOFING AT STEEL COLUMNS METAL ROOF DECK.

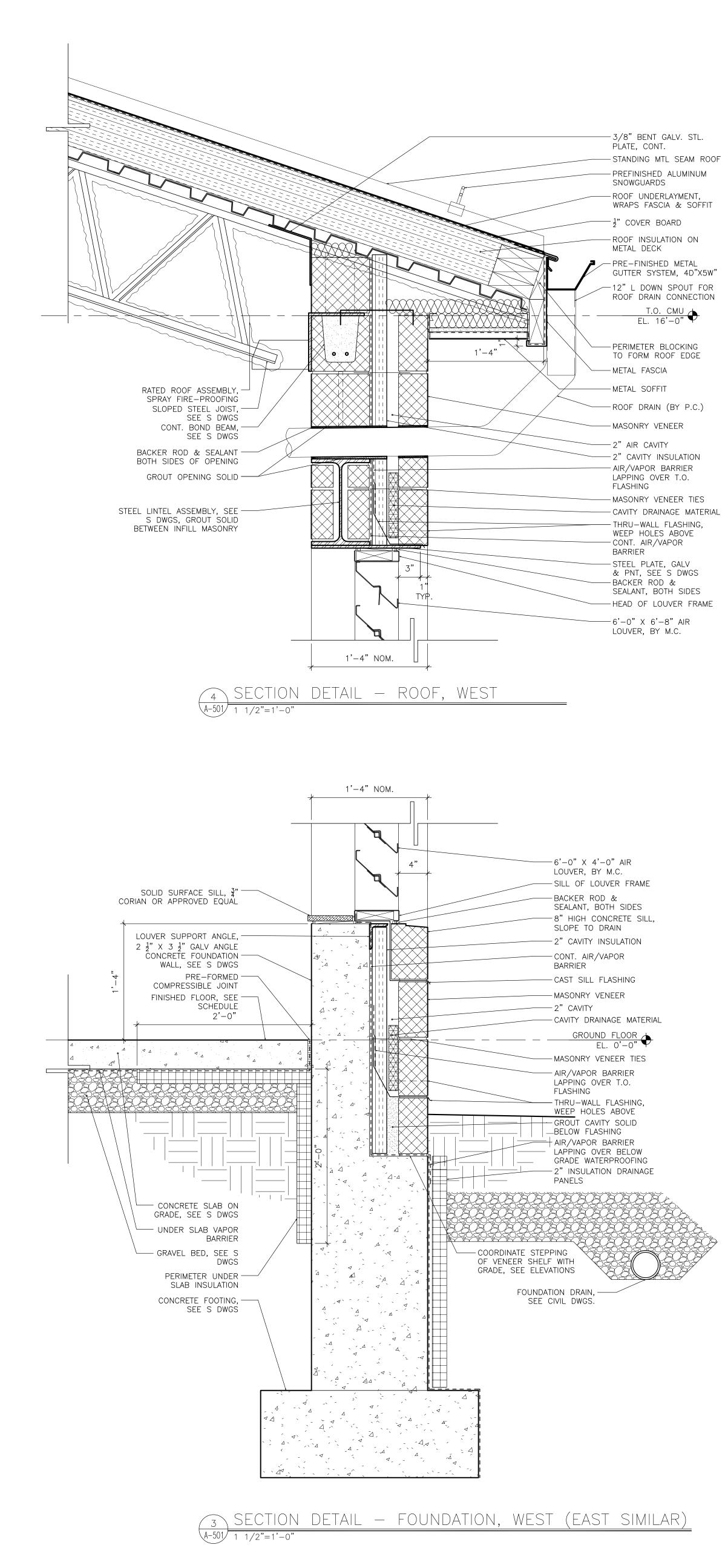
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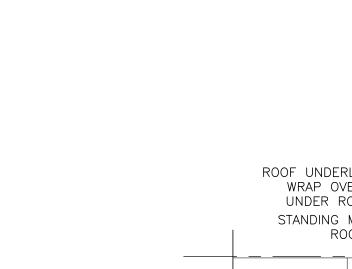


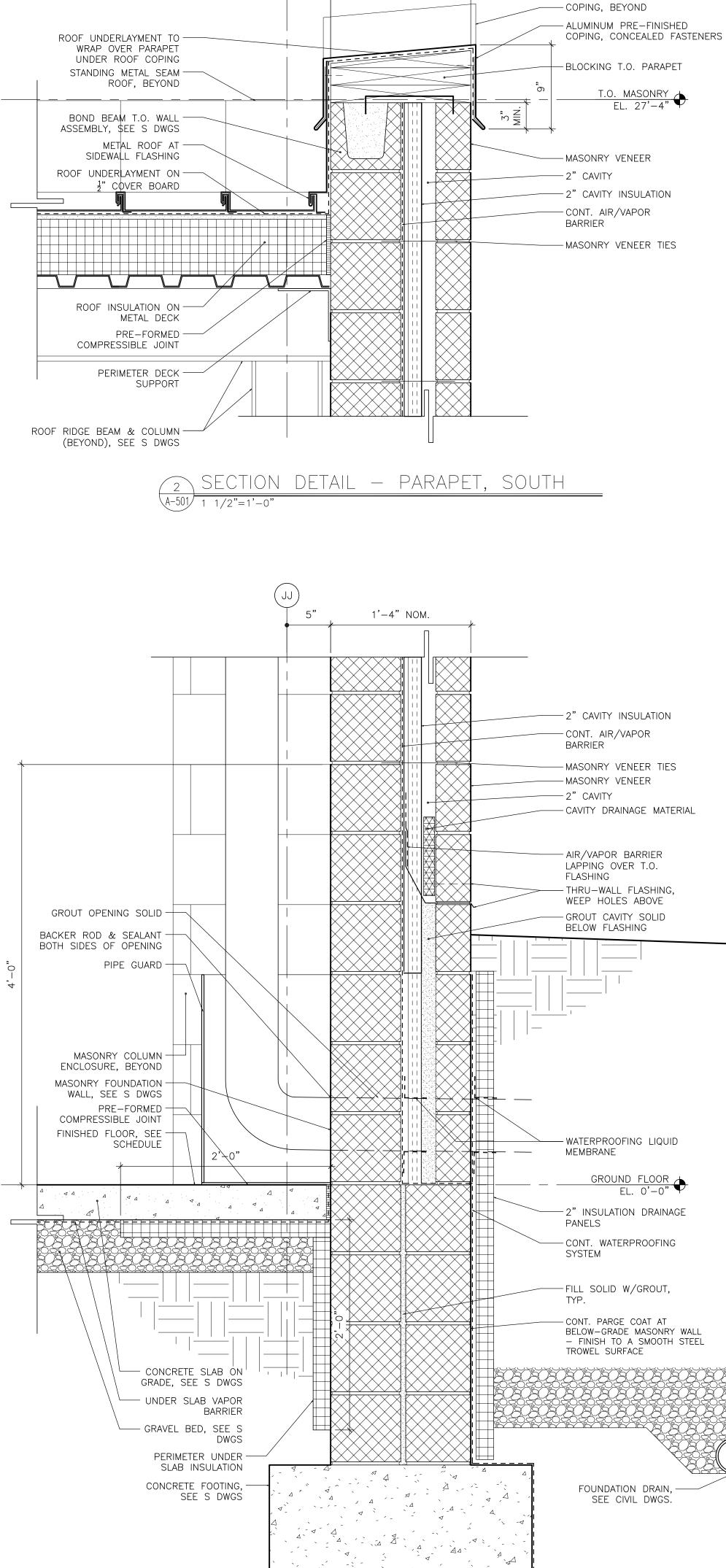


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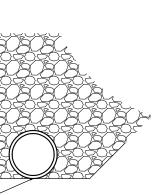
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1'-4" NOM.

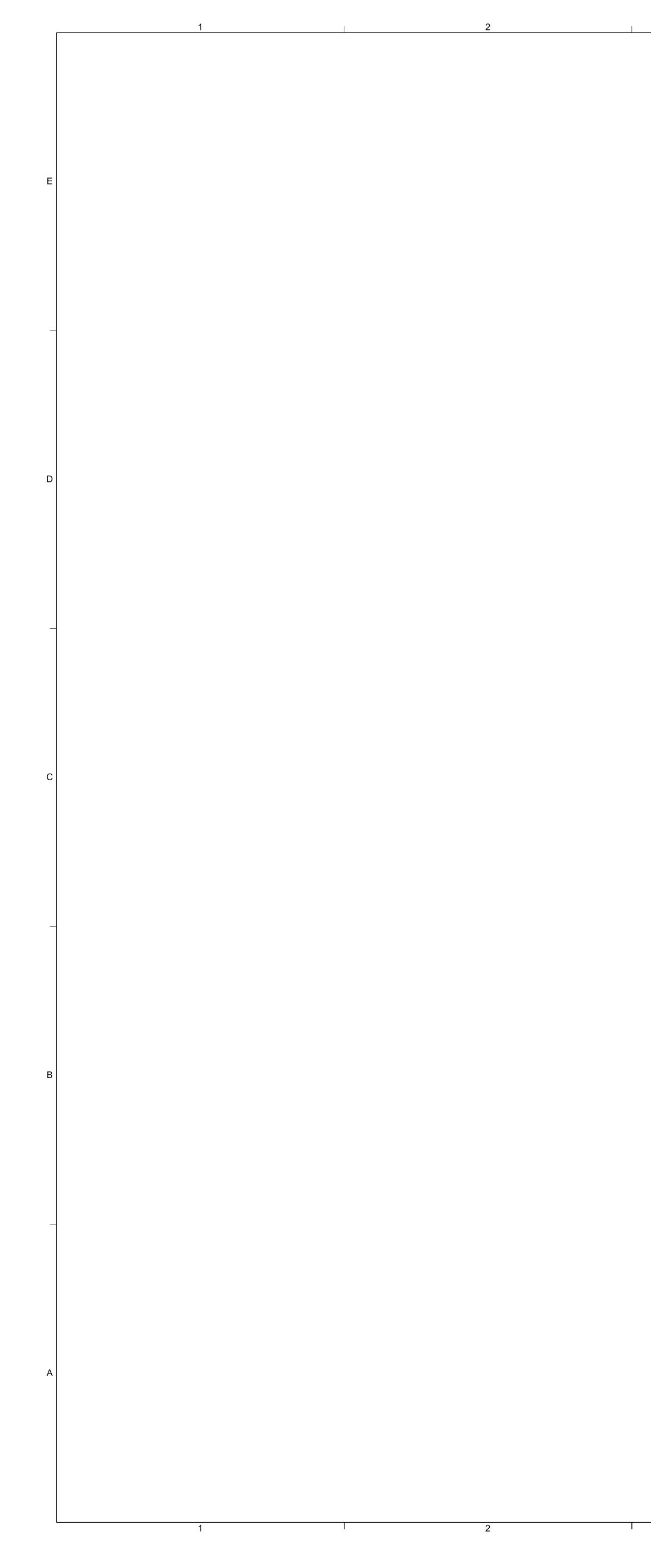
1 SECTION DETAIL - FOUNDATION, SOUTH A-501 1 1/2"=1'-0"

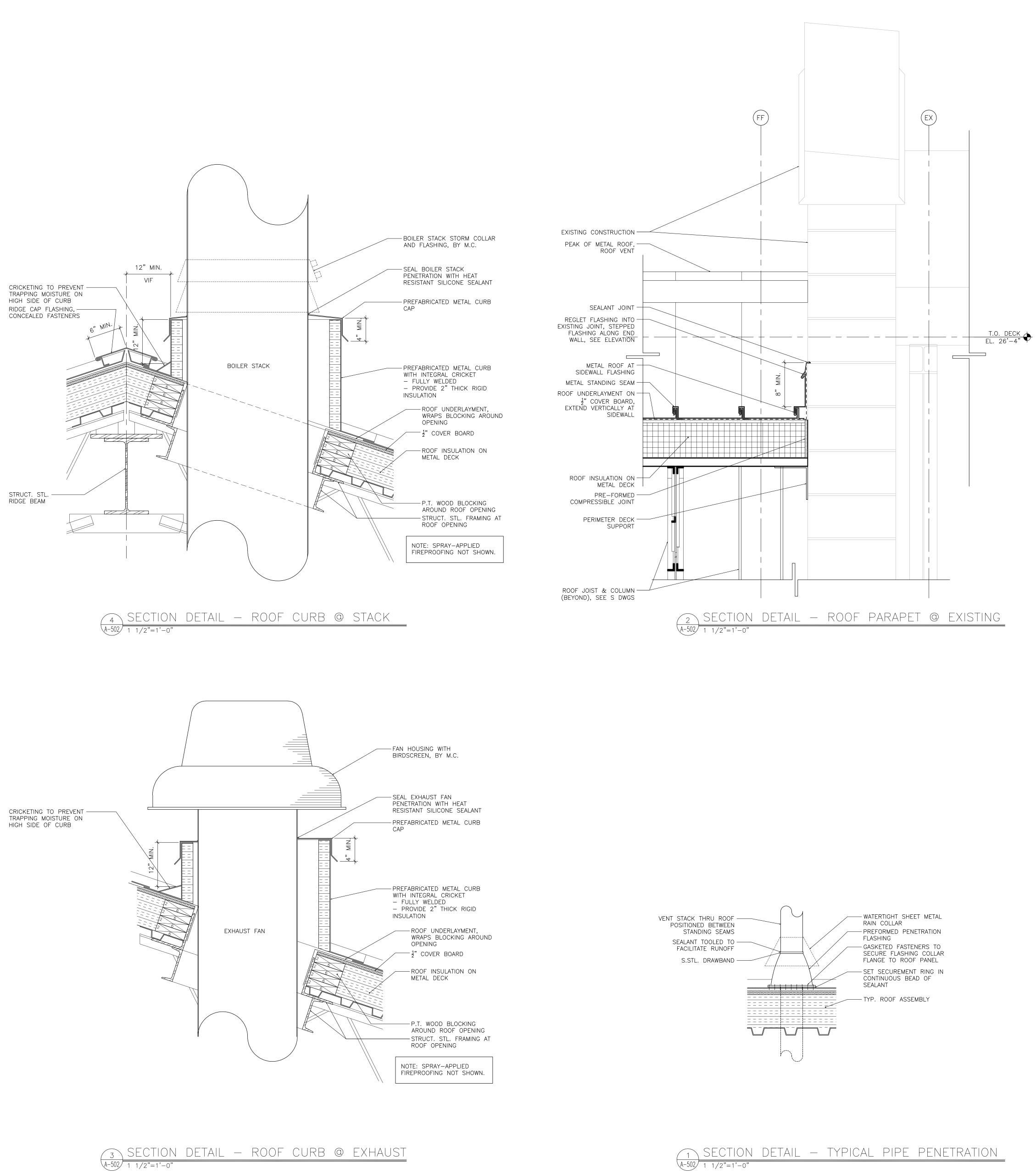
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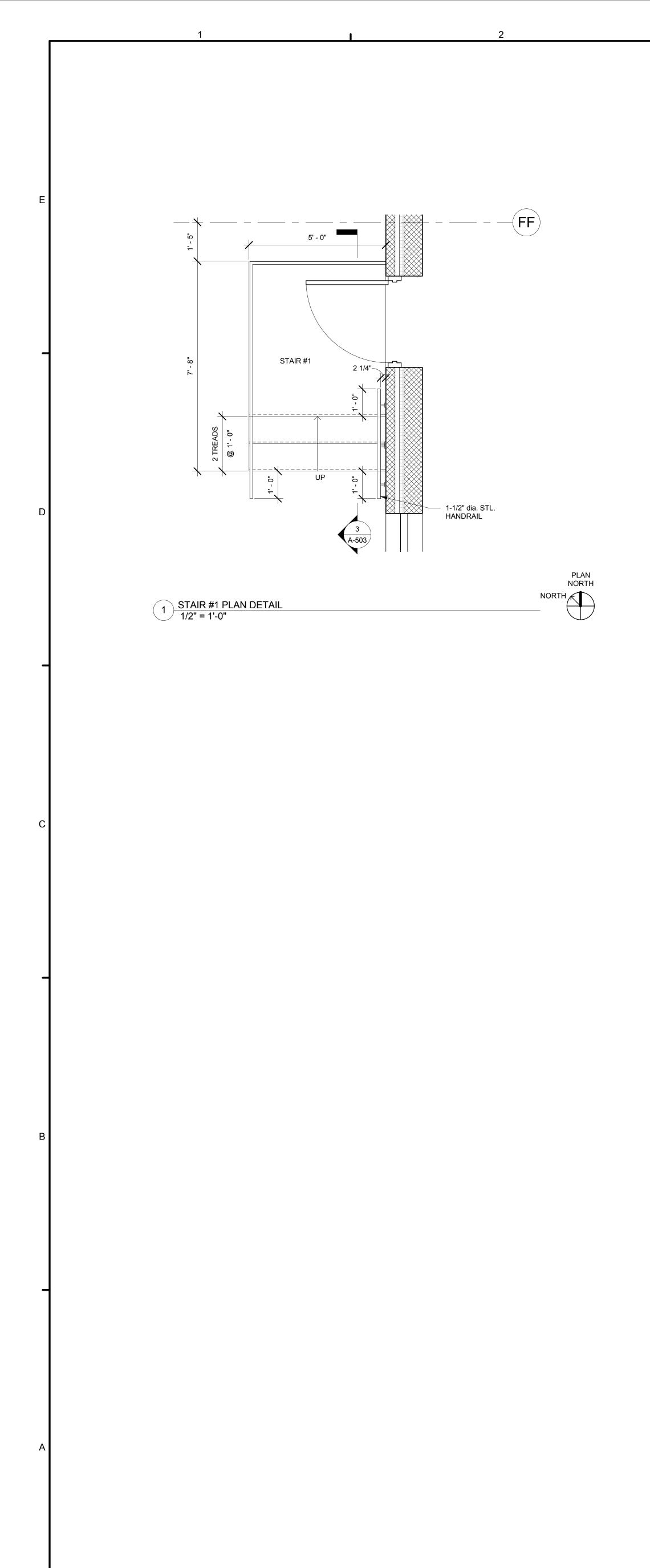
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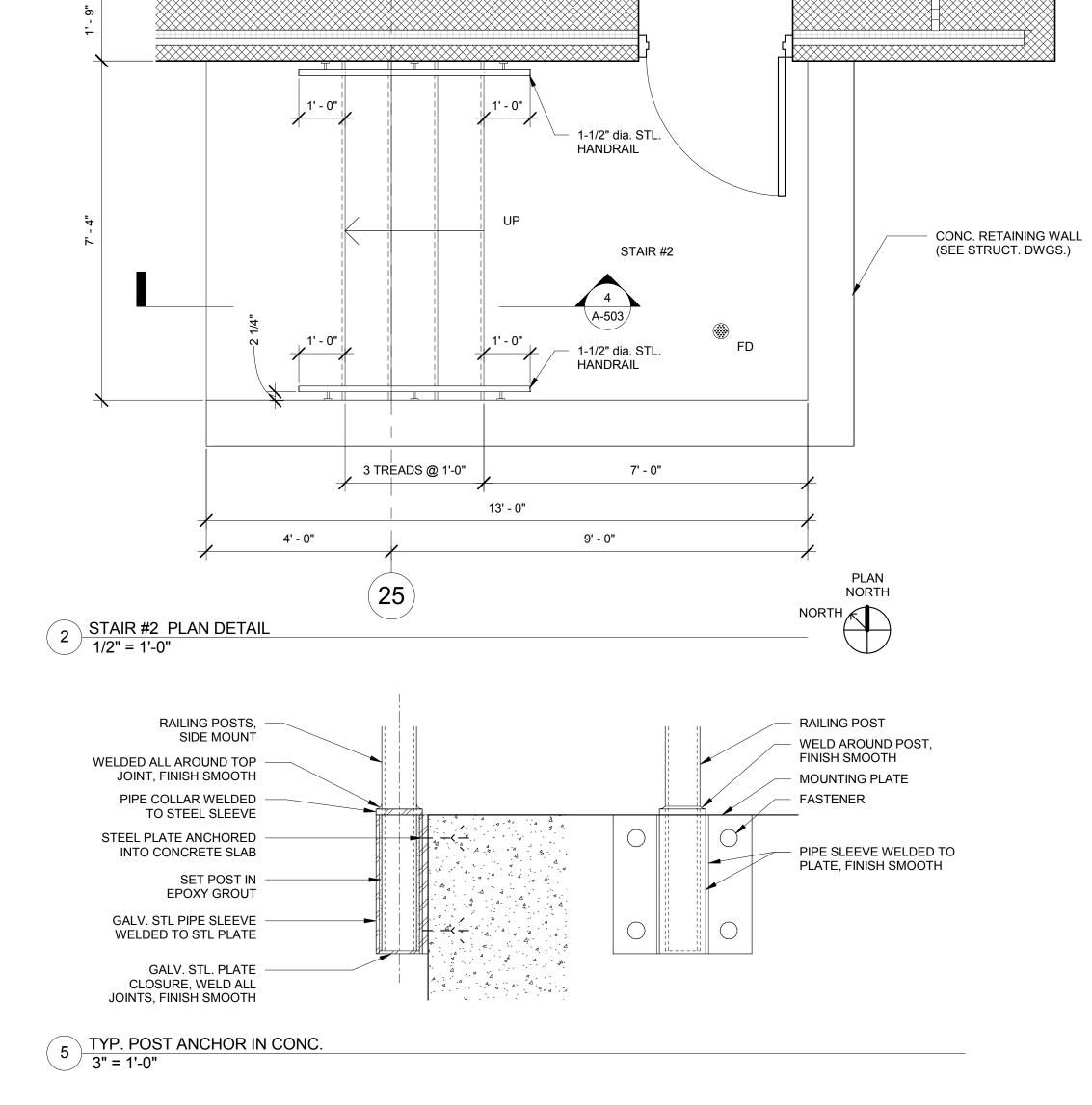




1 SECTION DETAIL - TYPICAL PIPE PENETRATION A-502 1 1/2"=1'-0"

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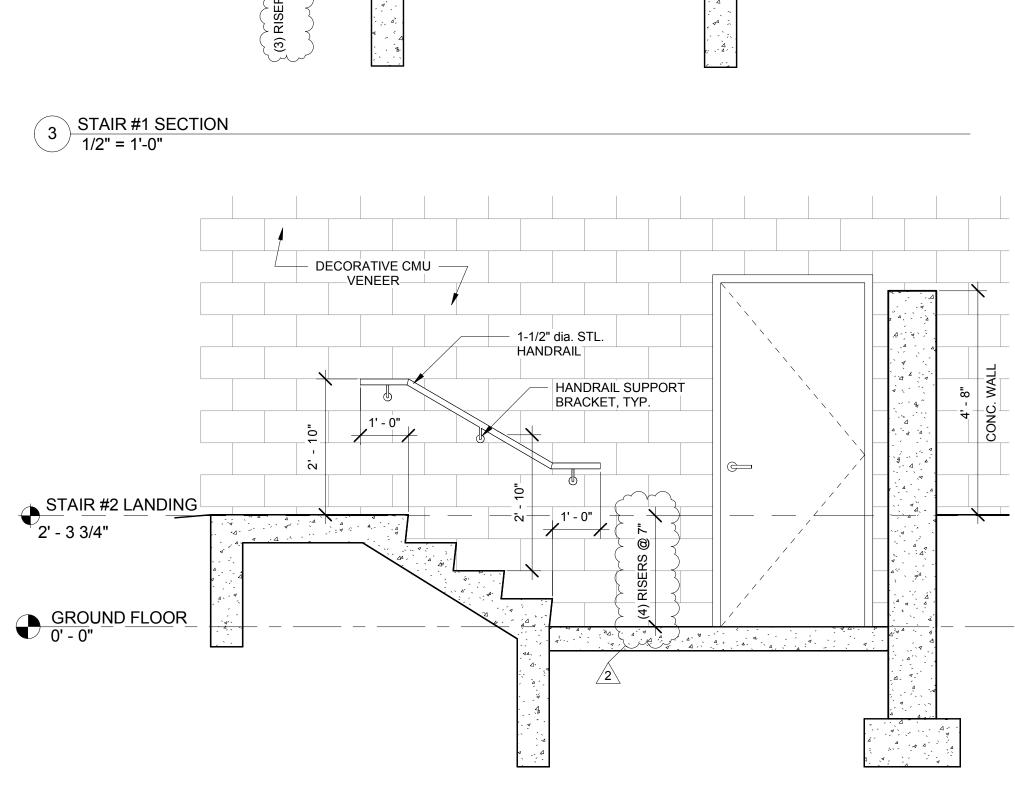


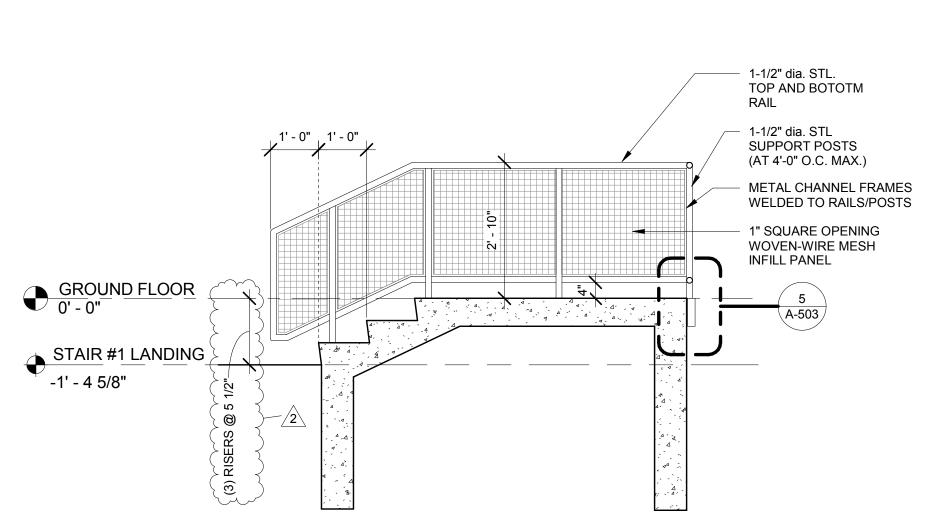
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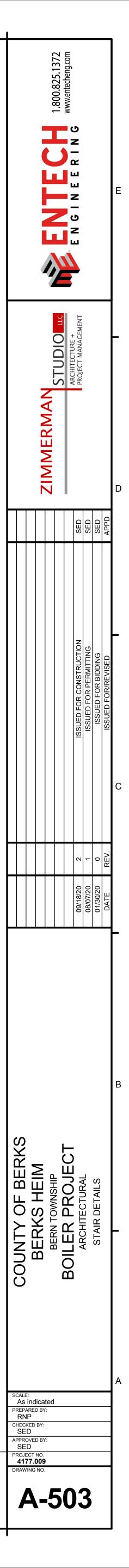
THE WORK SHOWN ON THIS DRAWING FALLS UNDER THE SCOPE OF THE GENERAL CONTRACT EXCEPT AS NOTED OTHERWISE.

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

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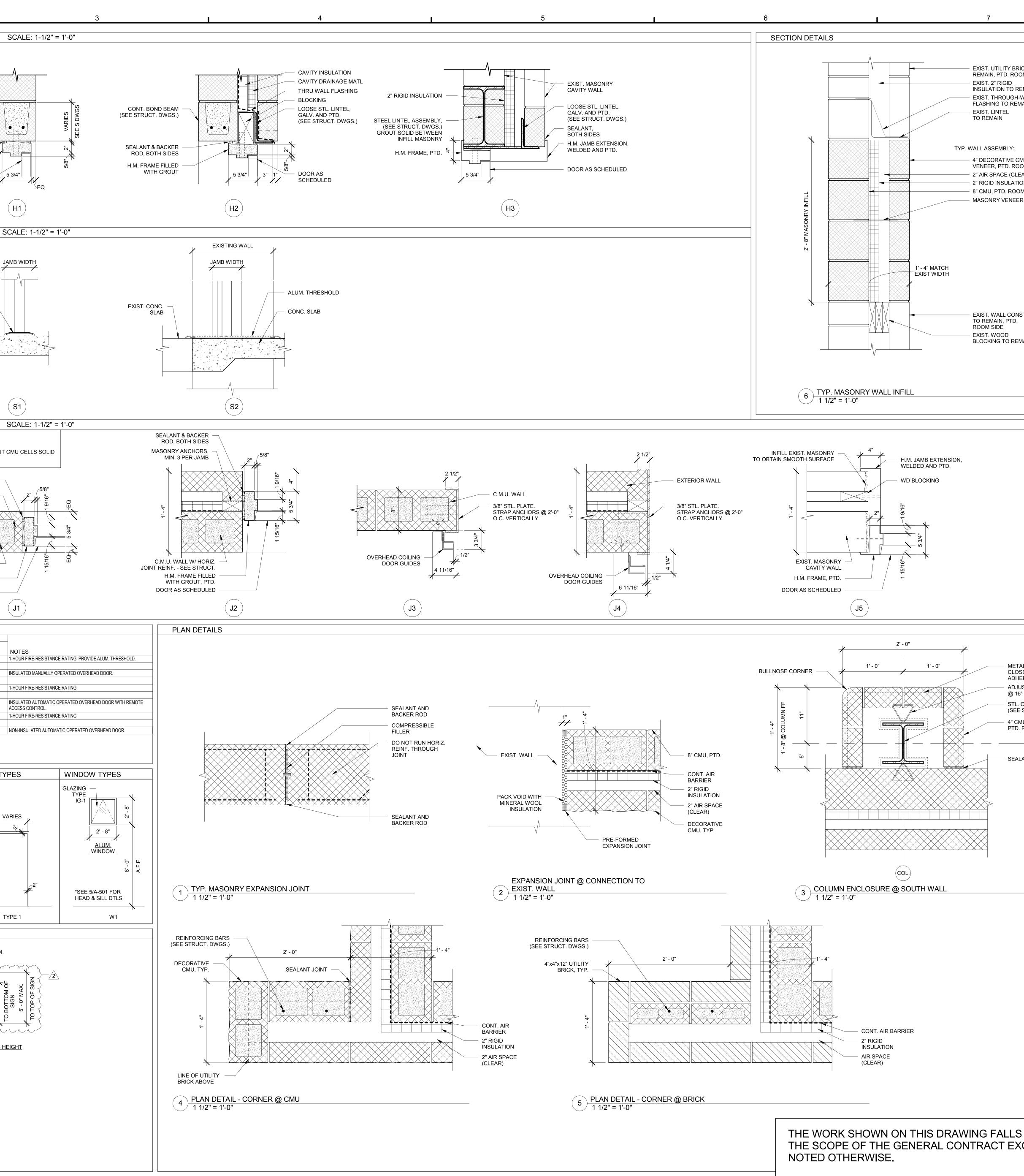


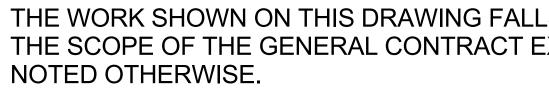


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	ABBREVIATIONS	ARCHITECTURAL LEGEND	DOOR DETAILS - HEAD -
	ACOUSTIC ACOUS. ABOVE FINISHED FLOOR AFF		
	ADJACENT AJA ADJUSTABLE ADJ	ROOM IDENTIFICATION	
	ALUMINUM AL OR ALUM ARCHITECT, ARCHITECTURAL ARCH		
	BOARD BD BOTTOM OF B.O. BOILER STACK B.S.	ENLARGED PLAN OR DETAIL MARK	
	BUILDING BLDG CABINET CAB		CONT. BOND BEAM (SEE STRUCT. DWGS.)
	CARPET CPT CEILING CLG	BUILDING ELEVATION REFERENCE	
Е	CEILING JOIST C.J. CENTER LINE CL CERAMIC TILE CT	6	SEALANT & BACKER
	CLEAR CLR COLD WATER CW	3 XXX 4 MULTIPLE ELEVATION REFERENCE	ROD, BOTH SIDES
	COLUMN COL CONCRETE CONC CONCRETE MASONRY UNIT CMU		H.M. FRAME FILLED WITH GROUT DOOR AS SCHEDULED
	CONCRETE MASONRY UNIT CMU CONSTRUCTION CONST CONTINUOUS CONT		EQ
	DEMOLITION DEMO DETAIL DTL	ELEVATION REFERENCE	
	DIAMETER DIA DIMENSION DIM DOOR DR	SECTION REFERENCE	
	DOWN DN DRAWING DWG	A-XX	DOOR DETAILS - SILL - S
	EACH EA ELECTRIC ELEC		
٦	ELECTRICAL CONTRACTOR     E.C.       ELEVATION     ELEV       EQUIPMENT     EQUIP		J
	ESTIMATE EST EXISTING EXIST		
	FEET, FOOT 'OR FT FINISH FIN		ALUM. THRESHOLD
	FINISH FLOORF.F.FIRE EXTINGUISHERF.E.FIRE EXTINGUISHER CABINETF.E.C.	COLUMN GRID	CONC. SLAB
	FIRE-RESISTANCE TREATEDF.R.T.FLOOR DRAINFD	100.5' SPOT ELEVATION TAG	
	FLUORESCENT FLUOR FRAME FR FURNITURE FURN		
	GAUGE GA GENERAL CONTRACTOR G.C.		
D	GLASS GL GYPSUM WALL BOARD GWB	1 WINDOW TAG	
	HARDWARE HDWR HEIGHT HT HOLLOW METAL HM	CLEAR DIMENSION BETWEEN ELEMENTS	
	HORIZONTAL HORIZ HOT WATER HW	X' - X" DIMENSION TO EDGE	
	INCH " OR IN INSULATION INSUL		
	INTERIOR INT JUNCTION BOX JB LAVATORY LAV		DOOR DETAILS - JAMB -
	MANUFACTURE MFR MASONRY OPENING M.O.	FLOOR CORE, COORD. LOCATION WITH MPE DOCUMENTS	GENERAL NOTES:
	MAXIMUM MAX MECHANICAL MECH	PARTITION CORE, COORD. LOCATION SIZE WITH MPE DOCUMENTS	DN & 1. AT FIRE RATED DOORS, GROUT FOR 16" MIN. FROM OPENING.
	MECHANICAL CONTRACTOR M.C. METAL MTL MINIMUM MIN		R
4	MISCELLANEOUS MISC NOMINAL NOM	FIRE-RESISTANCE RATING	SEALANT, BOTH
	NOT IN CONTRACT N.I.C. NOT TO SCALE NTS	WALL OR PARTITION WITH 1-HOUR FIRE-RESISTANCE RATING	MASONRY ANCHORS, MIN. 3 PER JAMB
	OPPOSITE OPP PAINT, PAINTED PT, PTD PARTITION PTN	WALL OR PARTITION WITH 2-HOUR FIRE-RESISTANCE RATING	
	PLANTINON PLAN PLASTIC LAMINATE PLAM PLUMBING CONTRACTOR P.C.	FE FIRE EXTINGUISHER	
	PLYWOOD PLYWD PRESSURE TREATED P.T.	FIRE EXTINGUISHER CABINET	
	QUANTITY QTY RADIUS R RAINWATER CONDUCTOR RWC	PB AUTOMATIC PUSHBUTTON	C.M.U. WALL W/ HORIZ.
	REFERENCE REF REINFORCE REINF		JOINT REINF SEE STRUCT. H.M. FRAME FILLED
	REQUIRED REQ REVISION REV		WITH GROUT, PTD. DOOR AS SCHEDULED —
С	ROOF DRAIN     R.D.       ROOM     RM       ROUGH OPENING     R.O.		
	SIMILAR SIM SOLID CORE SC		
	SPECIFICATIONSSPECSSQUARE FEETSF OR SQ. FT.	DOOR DOOR DOOR FRAM	
	SQUARE FEETSF OR SQ. FT.SQUARE INCHESSQ. IN.STAINLESS STEELS.STL.	NO. TYPE SIZE MATL FINISH TYPE MAT	ME DETAILS HDWR TL FINISH SET HEAD JAMB SILL
	SQUARE FEETSF OR SQ. FT.SQUARE INCHESSQ. IN.	NO.         TYPE         SIZE         MATL         FINISH         TYPE         MAT           101-1         A         (2) 3' - 0"         7' - 2"         HM         PTD         1         HM           101-2         A         3' - 0"         7' - 2"         HM         PTD         1         HM	ME HDWR FL FINISH SET HEAD JAMB SILL I PTD 1 H3 J5 S2 I PTD 2 H2 J2 S1
	SQUARE FEETSF OR SQ. FT.SQUARE INCHESSQ. IN.STAINLESS STEELS.STL.STANDARDSTDSTEELSTSUSPENDEDSUSPSYSTEMSYSTELEPHONETEL	NO.         TYPE         SIZE         MATL         FINISH         TYPE         MAT           101-1         A         (2) 3' - 0"         7' - 2"         HM         PTD         1         HM           101-2         A         3' - 0"         7' - 2"         HM         PTD         1         HM           101-3         B         12' - 0"         12' - 0"         STL         -         -         -           101-4         A         3' - 0"         7' - 2"         HM         PTD         1         HM	ME         HDWR         DETAILS           FL         FINISH         SET         HEAD         JAMB         SILL           I         PTD         1         H3         J5         S2           I         PTD         2         H2         J2         S1           -         4         7/A-501         J4         -           I         PTD         2         H2         J2         S1
	SQUARE FEETSF OR SQ. FT.SQUARE INCHESSQ. IN.STAINLESS STEELS.STL.STANDARDSTDSTEELSTSUSPENDEDSUSPSYSTEMSYSTELEPHONETELTOP OFT.O.TYPICALTYP	NO.         TYPE         SIZE         MATL         FINISH         TYPE         MAT           101-1         A         (2) 3' - 0"         7' - 2"         HM         PTD         1         HM           101-2         A         3' - 0"         7' - 2"         HM         PTD         1         HM           101-3         B         12' - 0"         12' - 0"         STL         -         -         -           101-4         A         3' - 0"         7' - 2"         HM         PTD         1         HM           102-1         A         3' - 0"         7' - 2"         HM         PTD         1         HM           102-2         A         3' - 0"         7' - 2"         HM         PTD         1         HM           102-3         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	ME         HDWR         DETAILS           TL FINISH         SET         HEAD         JAMB         SILL           I         PTD         1         H3         J5         S2           I         PTD         2         H2         J2         S1           -         4         7/A-501         J4         -           I         PTD         2         H2         J2         S1           I         PTD         3         H1         J1         -           I         PTD         2         H2         J2         S1
	SQUARE FEETSF OR SQ. FT.SQUARE INCHESSQ. IN.STAINLESS STEELS.STL.STANDARDSTDSTEELSTSUSPENDEDSUSPSYSTEMSYSTELEPHONETELTOP OFT.O.TYPICALTYPUNLESS NOTED OTHERWISEUNOVERIFY IN FIELDV.I.F.VERTICALVERT	NO.         TYPE         SIZE         MATL         FINISH         TYPE         MAT           101-1         A         (2) 3' - 0"         7' - 2"         HM         PTD         1         HM           101-2         A         3' - 0"         7' - 2"         HM         PTD         1         HM           101-3         B         12' - 0"         12' - 0"         STL         -         -         -           101-4         A         3' - 0"         7' - 2"         HM         PTD         1         HM           102-1         A         3' - 0"         7' - 2"         HM         PTD         1         HM	ME         HDWR SET         HEAD         JAMB         SILL           I         PTD         1         H3         J5         S2           I         PTD         2         H2         J2         S1           -         4         7/A-501         J4         -           I         PTD         2         H2         J2         S1           I         PTD         3         H1         J1         -           I         PTD         2         H2         J2         S1           I         PTD         4         7/A-501         J4         -
_	SQUARE FEETSF OR SQ. FT.SQUARE INCHESSQ. IN.STAINLESS STEELS.STL.STANDARDSTDSTEELSTSUSPENDEDSUSPSYSTEMSYSTELEPHONETELTOP OFT.O.TYPICALTYPUNLESS NOTED OTHERWISEUNOVERIFY IN FIELDV.I.F.VERTICALVERTVINYL COMPOSITION TILEVCTWATER CLOSETWC	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	MEHDWR SETDETAILSTL <finish< td="">SETHEADJAMBSILLIPTD1H3J5S2IPTD2H2J2S1-47/A-501J4-IPTD2H2J2S1IPTD3H1J1-IPTD2H2J2S1IPTD3H1J1-IPTD2H2J2S1IPTD1H1J1-</finish<>
-	SQUARE FEETSF OR SQ. FT.SQUARE INCHESSQ. IN.STAINLESS STEELS.STL.STANDARDSTDSTEELSTSUSPENDEDSUSPSYSTEMSYSTELEPHONETELTOP OFT.O.TYPICALTYPUNLESS NOTED OTHERWISEUNOVERIFY IN FIELDV.I.F.VERTICALVERTVINYL COMPOSITION TILEVCT	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	ME         HDWR         DETAILS           TL         FINISH         SET         HEAD         JAMB         SILL           I         PTD         1         H3         J5         S2           I         PTD         2         H2         J2         S1           -         4         7/A-501         J4         -           I         PTD         2         H2         J2         S1           I         PTD         2         H2         J4         -           I         PTD         1         H1         J1         -           I         PTD         1         H1         J1         -           I         PTD         2         H2         J2         S1
-	SQUARE FEETSF OR SQ. FT.SQUARE INCHESSQ. IN.STAINLESS STEELS.STL.STANDARDSTDSTEELSTSUSPENDEDSUSPSYSTEMSYSTELEPHONETELTOP OFT.O.TYPICALTYPUNLESS NOTED OTHERWISEUNOVERIFY IN FIELDV.I.F.VERTICALVERTVINYL COMPOSITION TILEVCTWATER CLOSETWCWEIGHTWTWELDED WIRE REINFORCINGWWF	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	ME         HDWR         DETAILS           TL         FINISH         SET         HEAD         JAMB         SILL           I         PTD         1         H3         J5         S2           I         PTD         2         H2         J2         S1           -         4         7/A-501         J4         -           I         PTD         2         H2         J2         S1           I         PTD         2         H2         J4         -           I         PTD         1         H1         J1         -           I         PTD         1         H1         J1         -           I         PTD         2         H2         J2         S1
_	SQUARE FEETSF OR SQ. FT.SQUARE INCHESSQ. IN.STAINLESS STEELS.STL.STANDARDSTDSTEELSTSUSPENDEDSUSPSYSTEMSYSTELEPHONETELTOP OFT.O.TYPICALTYPUNLESS NOTED OTHERWISEUNOVERIFY IN FIELDV.I.F.VERIFY IN FIELDVCTWATER CLOSETWCWEIGHTWTWELDED WIRE REINFORCINGWWFWITHOUTW/O	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	ME         HDWR SET         HEAD         JAMB         SILL           I         PTD         1         H3         J5         S2           I         PTD         2         H2         J2         S1           -         4         7/A-501         J4         -           I         PTD         2         H2         J2         S1           -         4         7/A-501         J4         -           I         PTD         2         H2         J2         S1           I         PTD         2         H2         J2         S1           I         PTD         2         H2         J2         S1           I         PTD         3         H1         J1         -           I         PTD         2         H2         J2         S1           -         -         4         7/A-501         J4         -           I         PTD         1         H1         J1         -           I         PTD         2         H2         J2         S1           I         PTD         2         H2         J2         S1
_	SQUARE FEETSF OR SQ. FT.SQUARE INCHESSQ. IN.STAINLESS STEELS.STL.STANDARDSTDSTEELSTSUSPENDEDSUSPSYSTEMSYSTELEPHONETELTOP OFT.O.TYPICALTYPUNLESS NOTED OTHERWISEUNOVERIFY IN FIELDV.I.F.VERTICALVERTVINYL COMPOSITION TILEVCTWATER CLOSETWCWEIGHTWTWITHW/WITHW/OWOODWD	NO.         TYPE         SIZE         MATL         FINISH         TYPE         MATL           101-1         A         (2) 3' - 0"         7' - 2"         HM         PTD         1         HM           101-2         A         3' - 0"         7' - 2"         HM         PTD         1         HM           101-2         A         3' - 0"         7' - 2"         HM         PTD         1         HM           101-3         B         12' - 0"         STL         -         -         -         -           101-4         A         3' - 0"         7' - 2"         HM         PTD         1         HM           102-1         A         3' - 0"         7' - 2"         HM         PTD         1         HM           102-2         A         3' - 0"         7' - 2"         HM         PTD         1         HM           102-3         B         10' - 0"         10' - 0"         STL         -         -         -           103-1         A         (2) 3' - 0"         7' - 2"         HM         PTD         1         HM           103-2         A         3' - 0"         7' - 2"         HM         PTD	ME         HDWR SET         HEAD         JAMB         SILL           I         PTD         1         H3         J5         S2           I         PTD         2         H2         J2         S1           -         4         7/A-501         J4         -           I         PTD         2         H2         J2         S1           -         4         7/A-501         J4         -           I         PTD         2         H2         J2         S1           I         PTD         2         H2         J2         S1           I         PTD         2         H2         J2         S1           I         PTD         3         H1         J1         -           I         PTD         2         H2         J2         S1           -         -         4         7/A-501         J4         -           I         PTD         1         H1         J1         -           I         PTD         2         H2         J2         S1           I         PTD         2         H2         J2         S1
-	SQUARE FEET       SF OR SQ. FT.         SQUARE INCHES       SQ. IN.         STAINLESS STEEL       S.STL.         STANDARD       STD         STEEL       ST         SUSPENDED       SUSP         SYSTEM       SYS         TELEPHONE       TEL         TOP OF       T.O.         TYPICAL       TYP         UNLESS NOTED OTHERWISE       UNO         VERIFY IN FIELD       V.I.F.         VERTICAL       VERT         VINYL COMPOSITION TILE       VCT         WATER CLOSET       WC         WEIGHT       WT         WEIGHT       W/O         WOOD       WD	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	ME         HDWR         DETAILS           IL         FINISH         SET         HEAD         JAMB         SILL           I         PTD         1         H3         J5         S2           I         PTD         2         H2         J2         S1           -         4         7/A-501         J4         -           I         PTD         2         H2         J2         S1           I         PTD         3         H1         J1         -           I         PTD         2         H2         J2         S1           -         -         4         7/A-501         J4         -           I         PTD         1         H1         J1         -           I         PTD         2         H2         J2         S1           -         4         7/A-501 (SIM)         J3         -
_	SQUARE FEET       SF OR SQ. FT.         SQUARE INCHES       SQ. IN.         STAINLESS STEEL       S.STL.         STANDARD       STD         STEEL       ST         SUSPENDED       SUSP         SYSTEM       SYS         TELEPHONE       TEL         TOP OF       T.O.         TYPICAL       TYP         UNLESS NOTED OTHERWISE       UNO         VERIFY IN FIELD       V.I.F.         VERICAL       VERT         VINYL COMPOSITION TILE       VCT         WATER CLOSET       WC         WEIGHT       WT         WELDED WIRE REINFORCING       WWF         WITH       W/         WOOD       WD         RIGID INSULATION         EARTH,       WOOD BLOCKING	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	ME         HDWR         DETAILS           IL         FINISH         SET         HEAD         JAMB         SILL           I         PTD         1         H3         J5         S2           I         PTD         2         H2         J2         S1           -         4         7/A-501         J4         -           I         PTD         2         H2         J2         S1           I         PTD         3         H1         J1         -           I         PTD         2         H2         J2         S1           -         -         4         7/A-501         J4         -           I         PTD         1         H1         J1         -           I         PTD         2         H2         J2         S1           -         4         7/A-501 (SIM)         J3         -
В	SQUARE FEET       SF OR SQ. FT.         SQUARE INCHES       SQ. IN.         STAINLESS STEEL       S.STL.         STANDARD       STD         STEEL       ST         SUSPENDED       SUSP         SYSTEM       SYS         TELEPHONE       TEL         TOP OF       T.O.         TYPICAL       TYP         UNLESS NOTED OTHERWISE       UNO         VERIFY IN FIELD       V.I.F.         VERIFY IN FIELD       V.I.F.         VERT       VINYL COMPOSITION TILE         VINYL COMPOSITION TILE       VCT         WATER CLOSET       WC         WEIGHT       WT         WELDED WIRE REINFORCING       WWF         WITH       W/         WOOD       WD         MATERIALS LEGEND       INSULATION         EARTH,       COMPACTED FILL       RIGID         INSULATION       OR SHIM       OR SHIM	NO.         TYPE         SIZE         MATL         FINISH         TYPE         MAX           101-1         A         (2) 3'-0"         7'-2"         HM         PTD         1         HM           101-2         A         3'-0"         7'-2"         HM         PTD         1         HM           101-2         A         3'-0"         7'-2"         HM         PTD         1         HM           101-3         B         12'-0"         12'-0"         STL         -         -         -           101-4         A         3'-0"         7'-2"         HM         PTD         1         HM           102-1         A         3'-0"         7'-2"         HM         PTD         1         HM           102-2         A         3'-0"         7'-2"         HM         PTD         1         HM           102-3         B         10'-0"         10'-0"         STL         -         -         -           103-1         A         (2) 3'-0"         7'-2"         HM         PTD         1         HM           103-2         A         3'-0"         7'-2"         HM         PTD         1         HM	ME         HDWR         DETAILS           IL         FINISH         SET         HEAD         JAMB         SILL           I         PTD         1         H3         J5         S2           I         PTD         2         H2         J2         S1           -         4         7/A-501         J4         -           I         PTD         2         H2         J2         S1           I         PTD         3         H1         J1         -           I         PTD         2         H2         J2         S1           -         -         4         7/A-501         J4         -           I         PTD         1         H1         J1         -           I         PTD         2         H2         J2         S1           -         4         7/A-501 (SIM)         J3         -
В	SQUARE FEET       SF OR SQ. FT.         SQUARE INCHES       SQ. IN.         STAINLESS STEEL       S.STL.         STANDARD       STD         STEEL       S.T         SUSPENDED       SUSP         SYSTEM       SYS         TELEPHONE       TEL         TOP OF       T.O.         TYPICAL       TYP         UNLESS NOTED OTHERWISE       UNO         VERIFY IN FIELD       V.I.F.         VERTICAL       VERT         VINYL COMPOSITION TILE       VCT         WATER CLOSET       WC         WEIGHT       WT         WELDED WIRE REINFORCING       WWF         WITH       W/         WITHOUT       WO         WOOD       WD         MATERIALS LEGEND       INSULATION         EARTH,       INSULATION         WOOD BLOCKING       OR SHIM         WOOD FRAMING, CONTINUOUS       CONCRETE,	NO.         TYPE         SIZE         MATL         FINISH         TYPE         MAX           101-1         A         (2) 3'-0"         7'-2"         HM         PTD         1         HM           101-2         A         3'-0"         7'-2"         HM         PTD         1         HM           101-2         A         3'-0"         7'-2"         HM         PTD         1         HM           101-3         B         12'-0"         12'-0"         STL         -         -         -           101-4         A         3'-0"         7'-2"         HM         PTD         1         HM           102-1         A         3'-0"         7'-2"         HM         PTD         1         HM           102-2         A         3'-0"         7'-2"         HM         PTD         1         HM           102-3         B         10'-0"         10'-0"         STL         -         -         -           103-1         A         (2) 3'-0"         7'-2"         HM         PTD         1         HM           103-2         A         3'-0"         7'-2"         HM         PTD         1         HM	ME         HDWR         DETAILS           IL         FINISH         SET         HEAD         JAMB         SILL           I         PTD         1         H3         J5         S2           I         PTD         2         H2         J2         S1           -         4         7/A-501         J4         -           I         PTD         2         H2         J2         S1           I         PTD         3         H1         J1         -           I         PTD         2         H2         J2         S1           -         -         4         7/A-501         J4         -           I         PTD         1         H1         J1         -           I         PTD         2         H2         J2         S1           -         4         7/A-501 (SIM)         J3         -
в	SQUARE FEET       SF OR SQ. FT.         SQUARE INCHES       SQ. IN.         STAINLESS STEEL       S.STL.         STANDARD       STD         STEEL       ST         SUSPENDED       SUSP         SYSTEM       SYS         TELEPHONE       TEL         TOP OF       T.O.         TYPICAL       TYP         UNLESS NOTED OTHERWISE       UNO         VERIFY IN FIELD       V.I.F.         VERTICAL       VERT         VINL COMPOSITION TILE       VCT         WATER CLOSET       WC         WEIGHT       WT         WEIGHT       WT         WEIGHT       WT         WEIDED WIRE REINFORCING       WWF         WITH       W/         WOOD       WD         MATERIALS LEGEND       Insulation         EARTH,       COMPACTED FILL       RIGID         INDISTURBED       OR SHIM       OR SHIM         CONCRETE,       WOOD FRAMING,       CONTINUOUS         CONCRETE,       PLYWOOD       FINISHED         CONCRETE       WOOD -       FINISHED         CONCRETE       VOOD -       FINISHED	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	ME         HDWR         HEAD         JAMB         SILL           I         PTD         1         H3         J5         S2           I         PTD         2         H2         J2         S1           -         4         7/A-501         J4         -           I         PTD         2         H2         J2         S1           -         4         7/A-501         J4         -         I           I         PTD         2         H2         J2         S1           I         PTD         3         H1         J1         -           I         PTD         2         H2         J2         S1           -         4         7/A-501         J4         -         -           I         PTD         1         H1         J1         -           -         4         7/A-501 (SIM)         J3         -           I         PTD         2         H2         J2         S1           -         4         7/A-501 (SIM)         J3         -
в	SQUARE FEET       SF OR SQ. FT.         SQUARE INCHES       SQ. IN.         STAINLESS STEEL       S.STL.         STANDARD       STD         STEEL       ST         SUSPENDED       SUSP         SYSTEM       SYS         TELEPHONE       TEL         TOP OF       TO.         TYPICAL       TYP         UNLESS NOTED OTHERWISE       UNO         VERTY IN FIELD       V.I.F.         VERTICAL       VERT         VINYL COMPOSITION TILE       VCT         WATER CLOSET       WC         WEIGHT       WT         WEIGHT       WT         WEIGHT       WT         WOOD       WD         MOD       WD         MOD       WD         MATERIALS LEGEND       INSULATION         MATERIALS LEGEND       MASONRY         WOOD BLOCKING OR SHIM       OR SHIM         WOOD FRAMING, CONCRETE, CONCRETE, CONCRETE       PLYWOOD         CONCRETE, MASONRY       PLASTER OR GYPSUM BOARD         BRICK       SOLID	NO.         TYPE         SIZE         MATL         FINISH         TYPE         MATL           101-1         A         (2) 3'-0"         7'-2"         HM         PTD         1         HM           101-2         A         3'-0"         7'-2"         HM         PTD         1         HM           101-2         A         3'-0"         7'-2"         HM         PTD         1         HM           101-3         B         12'-0"         STL         -         -         -         -           101-4         A         3'-0"         7'-2"         HM         PTD         1         HM           102-1         A         3'-0"         7'-2"         HM         PTD         1         HM           102-2         A         3'-0"         7'-2"         HM         PTD         1         HM           102-3         B         10'-0"         STL         -         -         -         -           103-1         A         (2) 3'-0"         7'-2"         HM         PTD         1         HM           103-3         B         10'-0"         STL         -         -         -         - <tr< th=""><th>ME         HDWR         DETAILS           IL         FINISH         SET         HEAD         JAMB         SILL           I         PTD         1         H3         J5         S2           I         PTD         2         H2         J2         S1           -         4         7/A-501         J4         -           I         PTD         2         H2         J2         S1           I         PTD         3         H1         J1         -           I         PTD         2         H2         J2         S1           -         -         4         7/A-501         J4         -           I         PTD         1         H1         J1         -           I         PTD         2         H2         J2         S1           -         4         7/A-501 (SIM)         J3         -  </th></tr<>	ME         HDWR         DETAILS           IL         FINISH         SET         HEAD         JAMB         SILL           I         PTD         1         H3         J5         S2           I         PTD         2         H2         J2         S1           -         4         7/A-501         J4         -           I         PTD         2         H2         J2         S1           I         PTD         3         H1         J1         -           I         PTD         2         H2         J2         S1           -         -         4         7/A-501         J4         -           I         PTD         1         H1         J1         -           I         PTD         2         H2         J2         S1           -         4         7/A-501 (SIM)         J3         -
в	SQUARE FEET       SF OR SQ. FT.         SQUARE INCHES       SQ. IN.         STAINLESS STEEL       STL.         STANDARD       STD         STANDARD       STD         STANDARD       STD         STANDARD       STD         STANDARD       STD         STEEL       ST         SUSPENDED       SUSP         SYSTEM       SYS         TELEPHONE       TEL         TOP OF       T.O.         TYPICAL       TYP         UNLESS NOTED OTHERWISE       UNO         VERIFY IN FIELD       V.I.F.         VERITCAL       VERT         WILCOMPOSITION TILE       VCT         WATER CLOSET       WC         WEIGHT       WT         WELDED WIRE REINFORCING       WWF         WITH       W/         WOOD       WD         MODUT       W/O         WOOD       WD         MATERIALS LEGEND       INSULATION         EARTH,       WOOD BLOCKING         UNDISTURBED       RIGID         INSULATION       CONCRETE,         CAST STONE       PLYWOOD         MASONRY       WOOD -	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	ME         HDWR         HEAD         JAMB         SILL           I         PTD         1         H3         J5         S2           I         PTD         2         H2         J2         S1           -         4         7/A-501         J4         -           I         PTD         2         H2         J2         S1           -         4         7/A-501         J4         -         I           I         PTD         2         H2         J2         S1           I         PTD         3         H1         J1         -           I         PTD         2         H2         J2         S1           -         4         7/A-501         J4         -         -           I         PTD         1         H1         J1         -           -         4         7/A-501 (SIM)         J3         -           I         PTD         2         H2         J2         S1           -         4         7/A-501 (SIM)         J3         -
в	SQUARE FEET       SF OR SQ. FT.         SQUARE INCHES       SQ. IN.         STAINLESS STEEL       S.STL.         STANDARD       STD         STEEL       ST         SUSPENDED       SUSP         SYSTEM       SYS         TELEPHONE       TEL         TOP OF       TO.         TYPICAL       TYP         UNLESS NOTED OTHERWISE       UNO         VERTY IN FIELD       V.I.F.         VERTICAL       VERT         VINYL COMPOSITION TILE       VCT         WATER CLOSET       WC         WEIGHT       WT         WEIGHT       WT         WEIGHT       WT         WOOD       WD         MOD       WD         MOD       WD         MATERIALS LEGEND       INSULATION         MATERIALS LEGEND       MASONRY         WOOD BLOCKING OR SHIM       OR SHIM         WOOD FRAMING, CONCRETE, CONCRETE, CONCRETE       PLYWOOD         CONCRETE, MASONRY       PLASTER OR GYPSUM BOARD         BRICK       SOLID	NO.         TYPE         SIZE         MATL         FINISH         TYPE         MATL           101-1         A         (2)3'-0"         7'-2"         HM         PTD         1         HM           101-2         A         3'-0"         7'-2"         HM         PTD         1         HM           101-3         B         12'-0"         12'-0"         STL         -         -         -           101-4         A         3'-0"         7'-2"         HM         PTD         1         HM           102-1         A         3'-0"         7'-2"         HM         PTD         1         HM           102-1         A         3'-0"         7'-2"         HM         PTD         1         HM           102-2         A         3'-0"         7'-2"         HM         PTD         1         HM           102-3         B         10'-0"         10'-0"         STL         -         -         -           103-1         A         (2) 3'-0"         7'-2"         HM         PTD         1         HM           103-3         B         10'-0"         STL         -         -         -         - <th>ME       HOWR       HEAD       JAMB       SILL         I       PTD       1       H3       J5       S2         I       PTD       2       H2       J2       S1         -       4       7/A-501       J4       -         I       PTD       2       H2       J2       S1         -       4       7/A-501       J4       -       -         I       PTD       2       H2       J2       S1         I       PTD       2       H2       J2       S1         -       4       7/A-501       J4       -       -         I       PTD       1       H1       J1       -         -       4       7/A-501       J4       -       -         I       PTD       1       H1       J1       -         -       4       7/A-501 (SIM)       J3       -       -         //       -       4       7/A-501 (SIM)       J3       -         //       -       4       7/A-501 (SIM)       J3       -         //       -       -       4       7/A-501 (SIM)       J4       -<!--</th--></th>	ME       HOWR       HEAD       JAMB       SILL         I       PTD       1       H3       J5       S2         I       PTD       2       H2       J2       S1         -       4       7/A-501       J4       -         I       PTD       2       H2       J2       S1         -       4       7/A-501       J4       -       -         I       PTD       2       H2       J2       S1         I       PTD       2       H2       J2       S1         -       4       7/A-501       J4       -       -         I       PTD       1       H1       J1       -         -       4       7/A-501       J4       -       -         I       PTD       1       H1       J1       -         -       4       7/A-501 (SIM)       J3       -       -         //       -       4       7/A-501 (SIM)       J3       -         //       -       4       7/A-501 (SIM)       J3       -         //       -       -       4       7/A-501 (SIM)       J4       - </th
в	SQUARE FEET       SF OR SQ, FT.         SQUARE INCHES       SQ, IN.         STAINLESS STEEL       SJT.         STANDARD       STD         STEEL       SJ         SUSPENDED       SUSP         SYSTEM       SYS         TELEPHONE       TEL         TOP OF       TO.         TYPICAL       TYP         UNLESS NOTED OTHERWISE       UNO         VERIFY IN FIELD       V.I.F.         VERIFY IN FIELD       V.I.F.         VERITOL       WERT         VINYL COMPOSITION TILE       VCT         WATER CLOSET       WC         WEIGHT       WT         WOOD       WD         MATERIALS LEGEND       INSULATION         EARTH,       WOOD FRAMING, CONTINUOUS         CONCRETE,       CONCRETE,         CAST STONE	NO.       TYPE       SIZE       MATL       FINISH       TYPE       MAX         101-1       A       (2) 3'-0"       7'-2"       HM       PTD       1       HM         101-2       A       3'-0"       7'-2"       HM       PTD       1       HM         101-3       B       12'-0"       12'-0"       STL       -       -       -         101-4       A       3'-0"       7'-2"       HM       PTD       1       HM         102-1       A       3'-0"       7'-2"       HM       PTD       1       HM         102-2       A       3'-0"       7'-2"       HM       PTD       1       HM         102-3       B       10'-0"       10'-0"       STL       -       -       -         103-1       A       (2) 3'-0"       7'-2"       HM       PTD       1       HM         103-2       A       3'-0"       7'-2"       HM       PTD       1       HM         103-3       B       10'-0"       10'-0"       STL       -       -       -       -         MGH       H       H       PTO       1       HM       HM	ME         HDWR         HEAD         JAMB         SILL           I         PTD         1         H3         J5         S2           I         PTD         2         H2         J2         S1           -         4         7/A-501         J4         -           I         PTD         2         H2         J2         S1           -         4         7/A-501         J4         -         I           I         PTD         2         H2         J2         S1           I         PTD         3         H1         J1         -           I         PTD         2         H2         J2         S1           -         4         7/A-501         J4         -         -           I         PTD         1         H1         J1         -           -         4         7/A-501 (SIM)         J3         -           I         PTD         2         H2         J2         S1           -         4         7/A-501 (SIM)         J3         -
в	SQUARE FEET       SF OR SQ. FT.         SQUARE INCHES       SQ. IN.         STAINLESS STEEL       S.STL.         STANDARD       STD         STEEL       ST         SUSPENDED       SUSP         SYSTEM       SYS         TELEPHONE       TEL         TOP OF       TO.         TYPICAL       TYP         UNLESS NOTED OTHERWISE       UNO         VERTY IN FIELD       V.I.F.         VERTICAL       VERT         VINYL COMPOSITION TILE       VCT         WATER CLOSET       WC         WEIGHT       WT         WEIGHT       WT         WEIGHT       WT         WOOD       WD         MOD       WD         MOD       WD         MATERIALS LEGEND       INSULATION         MATERIALS LEGEND       MASONRY         WOOD BLOCKING OR SHIM       OR SHIM         WOOD FRAMING, CONCRETE, CONCRETE, CONCRETE       PLYWOOD         CONCRETE, MASONRY       PLASTER OR GYPSUM BOARD         BRICK       SOLID	NO.       TYPE       SIZE       MATL       FINISH       TYPE       MAX         101-1       A       (2) 3'-0"       7'-2"       HM       PTD       1       HM         101-3       B       12'-0"       12'-0"       STL       -       -       -         101-4       A       3'-0"       7'-2"       HM       PTD       1       HM         102-2       A       3'-0"       7'-2"       HM       PTD       1       HM         102-2       A       3'-0"       7'-2"       HM       PTD       1       HM         102-2       A       3'-0"       7'-2"       HM       PTD       1       HM         102-3       B       10'-0"       10'-0"       STL       -       -       -         103-1       A       (2) 3'-0"       7'-2"       HM       PTD       1       HM         103-3       B       10'-0"       10'-0"       STL       -       -       -         IDOOR TYPES	ME         HDWR         HEAD         JAMB         SILL           PTD         1         H3         J5         S2           -         4         7/A-501         J4         -           1         PTD         2         H2         J2         S1           -         1         PTD         2         H2         J2         S1           -         1         PTD         2         H2         J2         S1           -         1         TH1         J1         -         -           -         1         H1         J1         -         -           -         1         H1         J1         -         -           -         1         H2         J2         S1         -           -         1         7/A-501 (SIM)         J3         -         -
В	SQUARE FEET       SF OR SQ, FT.         SQUARE INCHES       SQ, IN.         STAINLESS STEEL       SIT.         STAINDARD       STD         STEEL       ST         SUSPENDED       SUSP         SYSTEM       SYS         TELEPHONE       TEL         TOP OF       TO.         TYPICAL       TP         UNLESS NOTED OTHERWISE       UNO         VERIFY IN FIELD       V.I.F.         VERTICAL       VERT         VINAL COMPOSITION TILE       VCT         WATER CLOSET       WC         WEIGHT       WT         WEIDED WIRE REINFORCING       WWF         WITH       W         WUTHOUT       WO         WOOD       WOD         WOOD       WOD         MATERIALS LEGEND       MATERIALS LEGEND         MATERIALS LEGEND       MATERIALS LEGEND         MATERIALS LEGEND       WF         WITH       W         WOOD       WOD         COMPACTED FILL       INSULATION         CONCRETE,       PLYWOOD         CONCRETE       PLASTER OR         MASONRY       SOLID         BRICK       SOLID </th <th>$\frac{NO.}{101-1} + \frac{TYPE}{A} + \frac{SIZE}{W} + \frac{MATL}{FINISH} + \frac{FINISH}{TYPE} + \frac{MATL}{I01-1} + \frac{FINISH}{A} + \frac{TYPE}{I} + \frac{MATL}{I01-1} + \frac{FINISH}{A} + \frac{TYPE}{I} + \frac{MATL}{I01-1} + \frac{FINISH}{I01-1} + \frac{FINISH}{I01-1$</th> <th>ME       HOWR       HEAD       JAMB       SILL         I       PTD       1       H3       J5       S2         I       PTD       2       H2       J2       S1         -       4       7/A-501       J4       -         I       PTD       2       H2       J2       S1         -       4       7/A-501       J4       -       -         I       PTD       2       H2       J2       S1         I       PTD       2       H2       J2       S1         -       4       7/A-501       J4       -       -         I       PTD       1       H1       J1       -         -       4       7/A-501       J4       -       -         I       PTD       1       H1       J1       -         -       4       7/A-501 (SIM)       J3       -       -         //       -       4       7/A-501 (SIM)       J3       -         //       -       4       7/A-501 (SIM)       J3       -         //       -       -       4       7/A-501 (SIM)       J4       -<!--</th--></th>	$ \frac{NO.}{101-1} + \frac{TYPE}{A} + \frac{SIZE}{W} + \frac{MATL}{FINISH} + \frac{FINISH}{TYPE} + \frac{MATL}{I01-1} + \frac{FINISH}{A} + \frac{TYPE}{I} + \frac{MATL}{I01-1} + \frac{FINISH}{A} + \frac{TYPE}{I} + \frac{MATL}{I01-1} + \frac{FINISH}{I01-1} + \frac{FINISH}{I01-1$	ME       HOWR       HEAD       JAMB       SILL         I       PTD       1       H3       J5       S2         I       PTD       2       H2       J2       S1         -       4       7/A-501       J4       -         I       PTD       2       H2       J2       S1         -       4       7/A-501       J4       -       -         I       PTD       2       H2       J2       S1         I       PTD       2       H2       J2       S1         -       4       7/A-501       J4       -       -         I       PTD       1       H1       J1       -         -       4       7/A-501       J4       -       -         I       PTD       1       H1       J1       -         -       4       7/A-501 (SIM)       J3       -       -         //       -       4       7/A-501 (SIM)       J3       -         //       -       4       7/A-501 (SIM)       J3       -         //       -       -       4       7/A-501 (SIM)       J4       - </th
в	SQUARE FEET       SF OR SQ. FT.         SQUARE INCHES       SQUARE INCHES         STANDARD       STD         STEEL       ST.         SUSPENDED       SUSP         SYSTEM       SYS         TELEPHONE       TEL         TOP OF       T.O.         TYPICAL       TYP         UNLESS NOTED OTHERWISE       UNO         VERFY IN FIELD       V.I.F.         VERTICAL       VERT         VINYL COMPOSITION TILE       VCT         WATER CLOSET       WC         WEIGHT       WT         WEDED WIRE REINFORCING       WWF         WITH       W         WTHOUT       WIO         WOOD       WO         MATERIALS LEGEND       INSULATION         MATERIALS LEGEND       INSULATION         WEIGHT       WT         WOOD       WO         WOOD       WO         CONCRETE,       PLASTER OR         CONCRETE,       PLASTER OR         MASONRY       SOLID         SURFACE       SOLID         BRICK       SOLID         SURFACE       SOLID         SOLID       SURFACE </th <th>$\frac{NO.}{101} \frac{TYPE}{A} \frac{SIZE}{W} + MATL FINISH TYPE MAX}{MATL FINISH TYPE MAX} \frac{101.1}{101.2} A 3'.0" 7'.2" HM PTD 1 HN 101.3 B 12'.0" 12'.0" STL 101.4 A 3'.0" 7'.2" HM PTD 1 HN 102.2 A 3'.0" 7'.2" HM PTD 1 HN 102.3 B 10'.0" 10'.0" STL 103.1 A (2) 3'.0" 7'.2" HM PTD 1 HN 103.2 A 3'.0" 7'.2" HM PTD 1 HN 103.3 B 10'.0" 10'.0" STL 103.1 A (2) 3'.0" 7'.2" HM PTD 1 HN 103.3 B 10'.0" 10'.0" STL 103.1 A (2) 3'.0" 7'.2" HM PTD 1 HN 103.4 A 3'.0" 7'.2" HM PTD 1 HN 103.4 B 10'.0" 10'.0" STL$</th> <th>ME         HDWR         HEAD         JAMB         SILL           PTD         1         H3         J5         S2           -         4         7/A-501         J4         -           1         PTD         2         H2         J2         S1           -         1         PTD         2         H2         J2         S1           -         1         PTD         2         H2         J2         S1           -         1         TH1         J1         -         -           -         1         H1         J1         -         -           -         1         H1         J1         -         -           -         1         H2         J2         S1         -           -         1         7/A-501 (SIM)         J3         -         -</th>	$ \frac{NO.}{101} \frac{TYPE}{A} \frac{SIZE}{W} + MATL FINISH TYPE MAX}{MATL FINISH TYPE MAX} \frac{101.1}{101.2} A 3'.0" 7'.2" HM PTD 1 HN 101.3 B 12'.0" 12'.0" STL 101.4 A 3'.0" 7'.2" HM PTD 1 HN 102.2 A 3'.0" 7'.2" HM PTD 1 HN 102.3 B 10'.0" 10'.0" STL 103.1 A (2) 3'.0" 7'.2" HM PTD 1 HN 103.2 A 3'.0" 7'.2" HM PTD 1 HN 103.3 B 10'.0" 10'.0" STL 103.1 A (2) 3'.0" 7'.2" HM PTD 1 HN 103.3 B 10'.0" 10'.0" STL 103.1 A (2) 3'.0" 7'.2" HM PTD 1 HN 103.4 A 3'.0" 7'.2" HM PTD 1 HN 103.4 B 10'.0" 10'.0" STL$	ME         HDWR         HEAD         JAMB         SILL           PTD         1         H3         J5         S2           -         4         7/A-501         J4         -           1         PTD         2         H2         J2         S1           -         1         PTD         2         H2         J2         S1           -         1         PTD         2         H2         J2         S1           -         1         TH1         J1         -         -           -         1         H1         J1         -         -           -         1         H1         J1         -         -           -         1         H2         J2         S1         -           -         1         7/A-501 (SIM)         J3         -         -
в	SQUARE FEET       SF OR SQ. FT.         SQUARE INCHES       SQUARE INCHES         STANDARD       STD         STEEL       STL         STANDARD       STD         STEEL       ST         SUSPENDED       SUSP         SYSTEM       SYS         TELEPHONE       TEL         TOP OF       T.O.         TYPICAL       TYP         UNILESS NOTED OTHERWISE       UNO         VERFYIN FIELD       V.I.F.         VERTICAL       VERT         VINYL COMPOSITION TILE       VCT         WATER CLOSET       WC         WEIGHT       WT         WEIGHT       WT         WEIGHT       WT         WEIGHT       WT         WEIGHT       WO         WTH       W         WTHOUT       WO         WOOD       WD         COMPACTED FILL       INSULATION         WE EARTH,       WOOD BLOCKING         QUNDISTURBED       WOOD FRAMING,         CONCRETE,       PLYWOOD         CONCRETE,       PLASTER OR         MASONRY       SOLID         BRICK       SOLID         SURFACE <th>NO.       TYPE       SIZE       MATL       FINISH       TYPE       MATL         101-1       A       (2) 3'-0"       7'-2"       HM       PTD       1       HM         101-2       A       3'-0"       7'-2"       HM       PTD       1       HM         101-3       B       12'-0"       STL       -       -       -       -         101-4       A       3'-0"       7'-2"       HM       PTD       1       HM         102-1       A       3'-0"       7'-2"       HM       PTD       1       HM         102-2       A       3'-0"       7'-2"       HM       PTD       1       HM         102-3       B       10'-0"       10'-0"       STL       -       -       -         103-1       A       (2) 3'-0"       7'-2"       HM       PTD       1       HM         103-3       B       10'-0"       10'-0"       STL       -       -       -         SEE       DOOR SCHEDULE       SUP       SUP       SUP       SUP       -       -       -         H       H       H       H       INTERIOR SIGNAGE       SUP</th> <th>ME         HDWR         DETAILS           IL         PID         1         HEAD         JAMB         SILL           I         PTD         1         H3         J5         S2           I         PTD         2         H2         J2         S1           I         PTD         2         H2         J2         S1           I         PTD         2         H2         J2         S1           I         PTD         3         H1         J1         -           I         PTD         3         H1         J1         -           I         PTD         2         H2         J2         S1           -         4         7/A-501         J4         -         I           I         PTD         2         H2         J2         S1           -         4         7/A-501 (SIM)         J3         -         I           //ARIES         //         //         //         //         I           B         //         //         //         //         //         //</th>	NO.       TYPE       SIZE       MATL       FINISH       TYPE       MATL         101-1       A       (2) 3'-0"       7'-2"       HM       PTD       1       HM         101-2       A       3'-0"       7'-2"       HM       PTD       1       HM         101-3       B       12'-0"       STL       -       -       -       -         101-4       A       3'-0"       7'-2"       HM       PTD       1       HM         102-1       A       3'-0"       7'-2"       HM       PTD       1       HM         102-2       A       3'-0"       7'-2"       HM       PTD       1       HM         102-3       B       10'-0"       10'-0"       STL       -       -       -         103-1       A       (2) 3'-0"       7'-2"       HM       PTD       1       HM         103-3       B       10'-0"       10'-0"       STL       -       -       -         SEE       DOOR SCHEDULE       SUP       SUP       SUP       SUP       -       -       -         H       H       H       H       INTERIOR SIGNAGE       SUP	ME         HDWR         DETAILS           IL         PID         1         HEAD         JAMB         SILL           I         PTD         1         H3         J5         S2           I         PTD         2         H2         J2         S1           I         PTD         2         H2         J2         S1           I         PTD         2         H2         J2         S1           I         PTD         3         H1         J1         -           I         PTD         3         H1         J1         -           I         PTD         2         H2         J2         S1           -         4         7/A-501         J4         -         I           I         PTD         2         H2         J2         S1           -         4         7/A-501 (SIM)         J3         -         I           //ARIES         //         //         //         //         I           B         //         //         //         //         //         //
в	SQUARE FEET       SF OR SQ. FT.         SQUARE INCHES       SQUARE INCHES         STANDARD       STD         STEEL       SJT.         STANDARD       STD         STEEL       SJ         SUSPENDED       SUSP         SYSTEM       SYS         TELEPHONE       TEL         TOP OF       TO.         TYPICAL       TYP         UNLESS NOTED OTHERWISE       UNO         VERIFYIN FIELD       V.I.F.         VERTICAL       VERT         VINYL COMPOSITION TILE       VCT         WATER CLOSET       WC         WEIGHT       WT         WEIGHT       WT         WEIGHT       WT         WEIGHT       WT         WOOD       WO         WOOD       WD         MATERIALS LEGEND       INSULATION         WEIGHT       WT         WEIGHT       WO         WOOD       WO         WOOD       WO         COMPACTED FILL       INSULATION         WEIGHT       WOOD FRAMING, CONTINUOUS         CONCRETE, CAST STONE       PLYWOOD         CONCRETE       WOOD - FINISHED	NO.       TYPE       SIZE       MATL       FINISH       TYPE       MATL         101-1       A       (2) 3' 0"       7' - 2"       HM       PTD       1       HM         101-2       A       3' 0"       7' - 2"       HM       PTD       1       HM         101-3       B       12' 0"       12' 0"       STL       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -	ME         HDWR         DETAILS           I         FINISH         SET         HEAD         JAMB         SILL           I         PTD         1         H3         J5         S2           I         PTD         2         H2         J2         S1           I         PTD         2         H2         J2         S1           I         PTD         2         H2         J2         S1           I         PTD         3         H1         J1         -           I         PTD         2         H2         J2         S1           -         4         7/A-501         J4         -         I           I         PTD         1         H1         J1         -           I         PTD         2         H2         J2         S1           -         4         7/A-501 (SIM)         J3         -         I           ME         A         7/A-501 (SIM)         J3         -         I           B         T         T         I         I         I         I           J         -         4         7/A-501 (SIM)         J3
в	SQUARE FEET       SF OR SQ. FT.         SQUARE INCHES       SQ. IN.         STANDARD       STD         STEL       STT         STANDARD       STD         STEL       ST         SUSPENDED       SUSP         SYSTEM       SYS         TELEPHONE       TEL         TOP OF       TO.         TYPICAL       TYP         UNLESS NOTED OTHERWISE       UNO         VERTY IN FIELD       V.I.F.         VERTORAL       VERT         WITH       VC         WEIGHT       WT         WEIDED WIRE REINFORCING       WWF         WITH       WO         WOOD       WO         WOOD       WOOD         MATERIALS LEGEND       INSULATION         MATERIALS LEGEND       INSULATION         WOOD       WO       WOOD BLOCKING         OR SHIM       WOOD BLOCKING         OR SHIM       WOOD BLOCKING         OR SHIM       WOOD FRAMING,         CONCRETE,       PLYWOOD         CONCRETE       PLYWOOD         MASONRY       SOLID         SURFACE       SOLID         BRICK       SOLID	NO.       TYPE       SIZE       MATL       FINISH       TYPE       MATL         101-1       A       (2) 3'-0"       7'-2"       HM       PTD       1       HM         101-2       A       3'-0"       7'-2"       HM       PTD       1       HM         101-3       B       12'-0"       12'-0"       STL       -       -       -       -         101-4       A       3'-0"       7'-2"       HM       PTD       1       HM         102-2       A       3'-0"       7'-2"       HM       PTD       1       HM         102-3       B       10'-0"       10'-0"       STL       -       -       -         103-1       A       (2) 3'-0"       7'-2"       HM       PTD       1       HM         103-2       A       3'-0"       7'-2"       HM       PTD       1       HM         103-3       B       10'-0"       10'-0"       STL       -       -       -         SEE DOOR SCHEDULE	ME       HDWR       DETAILS         FINISH       SET       HEAD       JAMB       SILL         PTD       1       H3       J5       S2         PTD       2       H2       J2       S1         -       4       7/A-501       J4       -         I       PTD       2       H2       J2       S1         I       PTD       2       H2       J2       S1         I       PTD       3       H1       J1       -         I       PTD       2       H2       J2       S1         -       4       7/A-501       J4       -       -         I       PTD       1       H1       J1       -         I       PTD       2       H2       J2       S1         -       4       7/A-501 (SIM)       J3       -       -         ARIES
В	SQUARE FEET       SF OR SQ. FT.         SQUARE INCHES       SQ. IN.         STANDARD       STD         STEL       STT         STANDARD       STD         STEL       ST         SUSPENDED       SUSP         SYSTEM       SYS         TELEPHONE       TEL         TOP OF       TO.         TYPICAL       TYP         UNLESS NOTED OTHERWISE       UNO         VERTY IN FIELD       V.I.F.         VERTORAL       VERT         WITH       VC         WEIGHT       WT         WEIDED WIRE REINFORCING       WWF         WITH       WO         WOOD       WO         WOOD       WOOD         MATERIALS LEGEND       INSULATION         MATERIALS LEGEND       INSULATION         WOOD       WO       WOOD BLOCKING         OR SHIM       WOOD BLOCKING         OR SHIM       WOOD BLOCKING         OR SHIM       WOOD FRAMING,         CONCRETE,       PLYWOOD         CONCRETE       PLYWOOD         MASONRY       SOLID         SURFACE       SOLID         BRICK       SOLID	NO.       TYPE       SIZE       MATL       FINISH       TYPE       MATL         101-1       A       (2) 3' 0"       7' - 2"       HM       PTD       1       HM         101-3       B       12' 0"       12' 0"       STL       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -	ME       HDWR       DETAILS         FINISH       SET       HEAD       JAMB       SILL         PTD       1       H3       J5       S2         PTD       2       H2       J2       S1         -       4       7/A-501       J4       -         I       PTD       2       H2       J2       S1         I       PTD       2       H2       J2       S1         I       PTD       3       H1       J1       -         I       PTD       2       H2       J2       S1         -       4       7/A-501       J4       -       -         I       PTD       1       H1       J1       -         I       PTD       2       H2       J2       S1         -       4       7/A-501 (SIM)       J3       -       -         ARIES
в	SQUARE FEET       SF OR SQ. FT.         SQUARE INCHES       SQ. IN.         STANDARD       STD         STEL       STT         STANDARD       STD         STEL       ST         SUSPENDED       SUSP         SYSTEM       SYS         TELEPHONE       TEL         TOP OF       TO.         TYPICAL       TYP         UNLESS NOTED OTHERWISE       UNO         VERTY IN FIELD       V.I.F.         VERTORAL       VERT         WITH       VC         WEIGHT       WT         WEIDED WIRE REINFORCING       WWF         WITH       WO         WOOD       WO         WOOD       WOOD         MATERIALS LEGEND       INSULATION         MATERIALS LEGEND       INSULATION         WOOD       WO       WOOD BLOCKING         OR SHIM       WOOD BLOCKING         OR SHIM       WOOD BLOCKING         OR SHIM       WOOD FRAMING,         CONCRETE,       PLYWOOD         CONCRETE       PLYWOOD         MASONRY       SOLID         SURFACE       SOLID         BRICK       SOLID	NO.       TYPE       SIZE       MATL       FINISH       TYPE       MATL         101-1       A       (2) 3' 0"       7' - 2"       HM       PTD       1       HM         101-3       B       12' 0"       12' 0"       STL       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -	ME       HDWR       DETAILS         PTD       1       H3       J5       S2         PTD       2       H2       J2       S1         PTD       1       H1       J1       -         PTD       1       H1       J1       -         PTD       1       H1       J1       -         PTD       2       H2       J2       S1         -       4       7/A-501 (SIM)       J3       -         ARILES
В	SQUARE FEET       SF OR SQ. FT.         SQUARE INCHES       SQ. IN.         STANDARD       STD         STEL       STT         STANDARD       STD         STEL       ST         SUSPENDED       SUSP         SYSTEM       SYS         TELEPHONE       TEL         TOP OF       TO.         TYPICAL       TYP         UNLESS NOTED OTHERWISE       UNO         VERTY IN FIELD       V.I.F.         VERTORAL       VERT         WITH       VC         WEIGHT       WT         WEIDED WIRE REINFORCING       WWF         WITH       WO         WOOD       WO         WOOD       WOOD         MATERIALS LEGEND       INSULATION         MATERIALS LEGEND       INSULATION         WOOD       WO       WOOD BLOCKING         OR SHIM       WOOD BLOCKING         OR SHIM       WOOD BLOCKING         OR SHIM       WOOD FRAMING,         CONCRETE,       PLYWOOD         CONCRETE       PLYWOOD         MASONRY       SOLID         SURFACE       SOLID         BRICK       SOLID	NO.       TYPE       SIZE       MATL       FINISH       TYPE       MATL         101-1       A       (2) 3 - 0"       7' - 2"       HM       PTD       1       HM         101-2       A       3' - 0"       7' - 2"       HM       PTD       1       HM         101-4       A       3' - 0"       7' - 2"       HM       PTD       1       HM         101-4       A       3' - 0"       7' - 2"       HM       PTD       1       HM         102-1       A       3' - 0"       7' - 2"       HM       PTD       1       HM         102-2       A       3' - 0"       7' - 2"       HM       PTD       1       HM         102-3       B       10' - 0"       STL       -       -       -       -         103-1       A       (2) 3' - 0"       7' - 2"       HM       PTD       1       HM         103-2       A       3' - 0"       7' - 2"       HM       PTD       1       HM         103-3       B       10' - 0"       STL       -       -       -       -       -         SEE       DOOR SIGNAGE       SU       SU       SU	ME         HDWR SET         HEAD         JAMB         SILL           PTD         1         H3         J5         S2           PTD         2         H2         J2         S1           PTD         3         H1         J1         -           PTD         2         H2         J2         S1           -         4         7/A-501         J4         -           -         4         7/A-501         J4         -           -         4         7/A-501 (SIM)         J3         -           -         4         7/A-501 (SIM)         J3         -           YARIES
-	SOURE FEET       SFOR SQ. FT.         SQUARE FIEL       S.T.         STANDARD       STD         STEEL       S.T.         STANDARD       STD         STEEL       ST         SUSPENDED       SUSP         SYSTEM       SYS         TELEPHONE       TEL         TOP OF       TO.         TYPICAL       TP         UNESS NOTED OTHERWISE       UNO         VERTY IN FIELD       VLF.         VERTOLAL       VERT         WHOUT       WO         WHOUT       WO         WHOUT       WO         WOOD       WD         MATERIALS LEGEND         CONCRETE       PLAYMOOD         CONCRETE       PLYWOOD         CONCRETE       PLASTER OR         MASONRY       SURFACE         BRICK       SOLID         SURFACE       P-1	NO.       TYPE       SIZE       MATL       FINISH       TYPE       MATL         101-1       A       (2) 3'-0"       7'-2"       HM       PTD       1       HM         101-2       A       3'-0"       7'-2"       HM       PTD       1       HM         101-4       A       3'-0"       7'-2"       HM       PTD       1       HM         101-4       A       3'-0"       7'-2"       HM       PTD       1       HM         1022       A       3'-0"       7'-2"       HM       PTD       1       HM         1022       A       3'-0"       7'-2"       HM       PTD       1       HM         1023       B       10'-0"       STL       -       -       -       -         1031       A       (2) 3'-0"       7'-2"       HM       PTD       1       HM         1033       B       10'-0"       STL       -       -       -       -       -         SEE DOOR SCHEDULE       SEE DOOR SCHEDULE       SEE DOOR SIGNAGE       SEE DOOR SIGNAGE       N       ROOM SIGNAGE       RAISE D TA         10'''       A       1/2" MIN.       1/2" MIN </th <th>ME         HDWR SET         HEAD         JAMB         SILL           PTD         1         H3         J5         S2           PTD         2         H2         J2         S1           PTD         3         H1         J1         -           PTD         2         H2         J2         S1           -         4         7/A-501         J4         -           -         4         7/A-501         J4         -           -         4         7/A-501 (SIM)         J3         -           -         4         7/A-501 (SIM)         J3         -           YARIES        </th>	ME         HDWR SET         HEAD         JAMB         SILL           PTD         1         H3         J5         S2           PTD         2         H2         J2         S1           PTD         3         H1         J1         -           PTD         2         H2         J2         S1           -         4         7/A-501         J4         -           -         4         7/A-501         J4         -           -         4         7/A-501 (SIM)         J3         -           -         4         7/A-501 (SIM)         J3         -           YARIES
-	SOUARE FIELT       SFOR SQ. FT.         SQUARE INCHES       SCI.N.         STANDARD       STD         STANDARD       STD         STEEL       ST         SUSPENDED       SUSP         SYSTEM       SYS         TELEPHONE       TEL         TOP OF       TO.         TYPICAL       TYP         UNESS NOTED OTHERWISE       UNO         VERTY IN FIELD       V.F.         VERTY IN FIELD       V.F.         VERTICAL       VERT         WATER CLOSET       WC         WITH       WIT         WEIGHT       WT         WITH OUT       WOO         WOOD       WD         MATERIALS LEGEND       MATERIALS USEGEND         MATER CLOSET       WC         WITH       W         WOOD       WOO         WOOD       WOOD         CONCRETE       PLYWOOD         CONCRETE       PLYWOOD         CONCRETE       WOOD FININGARD         MASONRY       SOLID         SURFACE       SOLID         BRICK       SOLID         SEALED       RUBBER COVE       P-1         10	NO. TYPE SIZE MATL FINISH TYPE MATL 1011 A (2)3''' 7''' MM PTD 1 MH 1012 A 3''' 7''' MM PTD 1 MH 1013 B 12''' 12''' MM PTD 1 MH 1024 A 3''' 7'''' MM PTD 1 MH 1022 A 3''' 7'''' MM PTD 1 MH 1023 B 10''' 10''' STL 1034 A (2)3'''' 7'''' MM PTD 1 MH 1032 A 3'''' 7'''' MM PTD 1 MH 1033 B 10'''' 10''' STL SEE DOOR SCHEDULE A SEE DOOR SCHEDULE A NOE TYPES COM SIGNAGE NOE SIGNAGE NOE SIGNAGE SEE DOOR SIGNAGE NOE SIGNAGE NOE SIGNAGE SEE DOOR SCHEDULE NOE SIGNAGE NOE SIGNAGE SEE DOOR SIGNAGE NOE SIGNAGE SEE DOOR SIGNAGE NOE SIGNAGE NOE SIGNAGE SEE DOOR SIGNAGE NOE SIGNAGE SEE DOOR SIGNAGE NOE SIGNAGE NOE SIGNAGE NOE SIGNAGE NOE SIGNAGE SEE DOOR SIGNAGE NOE SIGNAGE NOE SIGNAGE SEE DOOR SIGNAGE NOE SIGNAGE NO	ME         DETAILS           TL FINISH         SET           I         PTD           I         PTD           -         4           71/4-501         J4           -         4           1         PTD           -         4           1         PTD           -         4           1         PTD           -         4           1         PTD           -         4           -         4           -         1           -         1           -         1           -         1           -         4           -         1           -         4           7/A-501 (SIM)         J3           -         4           7/A-501 (SIM)         J3           -         -           -         4           7/A-501 (SIM)         J3           -         -           -         -           -         -           -         -           -         -           -
-	SQUARE FEET     SF OR SQ. FT.       SQUARE INCHES     SQUARE       STANDARD     STD       STRUE     STT       STANDARD     STD       STEL     ST       SUSPENDED     SUSP       SYSTEM     SYS       TELEPHONE     TEL       TOP OF     T.O.       TYPICAL     TYP       UNLESS NOTED OTHERWISE     UNO       VERIFY IN FIELD     V.I.F.       VERIFY IN FIELD     V.G.       WEIDED WIRE REINFORCING     WWF       WITH     W       WOOD     WO       COMPACTED FILL     INSULATION       CONCRETE     PLYWOOD       CONCRETE     PLYWOOD       CONCRETE     PLASTER OR       GYPSUM BOARD     SURFACE       INTERIOR PARTITION SCHEDULE     SOLD       INTERIOR PARTITION SCHEDULE     INTERIOR PARTITION SCHEDULE       INTERIOR PARTITION SCHEDULE     INTERIOR PARTITION SCHEDULE       INTERIOR PARTITION SCHEDULE	NO. TYPE SIZE MATLE FINISH TYPE MATLENDED TO THE MATLE FINISH TYPE MATLENDED TO THE MATLEN	ME         DETAILS           TL FINISH         SET         HEAD         JAMB         SILL           I         PTD         1         H3         J5         S2           I         PTD         2         H2         J2         S1           I         PTD         2         H2         J2         S1           I         PTD         2         H2         J2         S1           I         PTD         3         H1         J1         -           I         PTD         1         H1         J1         -           I         PTD         1         H1         J1         -           I         PTD         1         H1         J1         -           I         PTD         2         H2         J2         S1           I         PTD         2         H2         J2         S1           I         PTD         2         H2         J2         S1           B         T         T         T         T         T           I         A         TA-501 (SIM)         J3         -         T           ME         AND
-	SOUARE FREET       SF OR SQ. FT.         SQUARE INCHES       SQUARE ST IN         STANDARD       STD         STEEL       ST         STANDARD       STD         STEEL       ST         SUSPENDED       SUSP         SYSTEM       SYS         TELEPHONE       TEL         TOP OF       TO.         TYPICAL       TYP         UNLESS NOTED OTHERWISE       UNO         VERTY IN FIELD       VI.F.         VERTY IN FIELD       VI.F.         VERTY IN FIELD       VI.F.         VERTOLAL       VERT         WIND       WO         WEIGENT       WC         WEIGENT       WT         WITH       WC         WEIGENT       WT         WITHOUT       WO         WOOD       WOOD         CARST STONE       PLYWOOD         CONCRETE       WOOD -         MASONRY       PLASTER OR         GYPSUM BOARD       SOLID         SURFACE       SOLID         BRICK       SOLID         SEALED       RUBBER COVE       P-1         102       CONC.       RUBBER COVE       P-1 </td <td>NO. TYPE SIZE MATL FINISH TYPE MAT 101-1 A (2)3'.0" 7'.2" HM PTD 1 HM 101-2 A 3'.0" 7'.2" HM PTD 1 HM 101-3 B 12'.0" STL 101-4 A 3'.0" 7'.2" HM PTD 1 HM 102-1 A 3'.0" 7'.2" HM PTD 1 HM 102-2 A 3'.0" 7'.2" HM PTD 1 HM 102-3 B 10'.0" 10'.0" STL 103-1 A (2)3'.0" 7'.2" HM PTD 1 HM 103-3 B 10'.0" 10'.0" STL 103-1 A (2)3'.0" 7'.2" HM PTD 1 HM 103-3 B 10'.0" 10'.0" STL SEE DOOR SCHEDULE A INTERIOR SIGNAGE</td> <td>ME       DETAILS         FL       FINSH       SET         I       PTD       1         HEAD       JAMB       SILL         I       PTD       1         HEAD       JAMB       SILL         I       PTD       2       H2         I       PTD       2       H2       J2         I       PTD       2       H2       J2       S1         I       PTD       2       H2       J2       S1         I       PTD       1       H1       J1       -         I       PTD       2       H2       J2       S1         I       HEAD       JAME       THE       JU       -         ME       AND NUMBER, S.       SIGNAGE MOUNTING H       TYP. SIGNAGE MOUNTING H         RAILLE       TYP. SIGNAGE MOUNTING H       TYP. SIGNAGE MOUNTING H</td>	NO. TYPE SIZE MATL FINISH TYPE MAT 101-1 A (2)3'.0" 7'.2" HM PTD 1 HM 101-2 A 3'.0" 7'.2" HM PTD 1 HM 101-3 B 12'.0" STL 101-4 A 3'.0" 7'.2" HM PTD 1 HM 102-1 A 3'.0" 7'.2" HM PTD 1 HM 102-2 A 3'.0" 7'.2" HM PTD 1 HM 102-3 B 10'.0" 10'.0" STL 103-1 A (2)3'.0" 7'.2" HM PTD 1 HM 103-3 B 10'.0" 10'.0" STL 103-1 A (2)3'.0" 7'.2" HM PTD 1 HM 103-3 B 10'.0" 10'.0" STL SEE DOOR SCHEDULE A INTERIOR SIGNAGE	ME       DETAILS         FL       FINSH       SET         I       PTD       1         HEAD       JAMB       SILL         I       PTD       1         HEAD       JAMB       SILL         I       PTD       2       H2         I       PTD       2       H2       J2         I       PTD       2       H2       J2       S1         I       PTD       2       H2       J2       S1         I       PTD       1       H1       J1       -         I       PTD       2       H2       J2       S1         I       HEAD       JAME       THE       JU       -         ME       AND NUMBER, S.       SIGNAGE MOUNTING H       TYP. SIGNAGE MOUNTING H         RAILLE       TYP. SIGNAGE MOUNTING H       TYP. SIGNAGE MOUNTING H
-	SQUARE FEET     SF OR SQ. FT.       SQUARE INCHES     SQUARE       STANDARD     STD       STEL     ST       STANDARD     STD       STEL     ST       SUSPENDED     SUSP       SYSTEM     SYS       TELEPHONE     TEL       TOP OF     TO.       TYPICAL     TYP       UNLESS NOTED OTHERWISE     UNO       VERITY IN FIELD     V.I.F.       VERT     WT       WEIGHT     WT       WEIGHT     WT       WEIGHT     WT       WOOD     WD       MATERIALS LEGEND       STANDARY       WOOD       WOOD       CONCERTE       MASONRY       CONCRETE       MASONRY       BRICK       SALED       VUBBER COVE       P.1       102       CONC.       SEALED       RUBBER COVE       P.1       103       CONC.       SEALED        WUBER COVE </th <th>NO. TYPE SIZE MATE FINISH TYPE MAT 101-1 A (2) 3 · 0" 7 · 2" HM PTD 1 HH 101-2 A 3 · 0" 7 · 2" HM PTD 1 HH 101-3 B 12 · 0" STL 101-4 A 3 · 0" 7 · 2" HM PTD 1 HH 102-1 A 3 · 0" 7 · 2" HM PTD 1 HH 102-2 A 3 · 0" 7 · 2" HM PTD 1 HH 102-3 B 10 · 0" 10 · 0" STL 103-1 A (2) 3 · 0" 7 · 2" HM PTD 1 HH 103-3 B 10 · 0" 10 · 0" STL 103-1 A (2) 3 · 0" 7 · 2" HM PTD 1 HH 103-3 B 10 · 0" 10 · 0" STL 103-1 A (2) 3 · 0" 7 · 2" HM PTD 1 HH 103-3 B 10 · 0" 10 · 0" STL 103-1 A (2) - 0" 7 · 2" HM PTD 1 HH 103-3 B 10 · 0" 10 · 0" STL SEE DOOR SCHEDULE A INTERIOR SIGNAGE SEE DOOR SCHEDULE SEE DOOR SCHEDULE T / 1/2" MIN. 1/2" MIN T · ALL CAP ROOM SIGNAGE INTERIOR SIGNAGE SEE DOOR SCHEDULE T / 1/2" MIN. 1/2" MIN T · ALL CAP ROOM SIGNAGE I · ALL FONT SHALL BE UPPERCASE AND SANS SERIF. 2. BRAILE SHALL BE UPPERCASE AND SANS SERIF. 3. BASELINE OF GRADE 2 BRAILLE MUST BE BETWEEN 4 4. SIGNS PROVIDED AT A DOOR SHALL BE LOCATED AT 5. PROVIDE PLASTIC PANELS WITH INTEGRAL, RAISED TA B ROVIDE PLASTIC PANELS WITH INTEGRAL, RAISED TANDAR</th> <th>ME       DETAILS         FL       FINSH       SET       HEAD       JAMB       SILL         I       PTD       1       H3       JS       S2         -       4       7/A-501       J4       -         I       PTD       2       H2       J2       S1         -       4       7/A-501       J4       -       -         I       PTD       2       H2       J2       S1         -       4       7/A-501       J4       -       -         I       PTD       2       H2       J2       S1         -       4       7/A-501       J4       -       -         I       PTD       1       H1       J1       -         I       PTD       4       7/A-501 (SIM)       J3       -         ARIES       Image: Set of the se</th>	NO. TYPE SIZE MATE FINISH TYPE MAT 101-1 A (2) 3 · 0" 7 · 2" HM PTD 1 HH 101-2 A 3 · 0" 7 · 2" HM PTD 1 HH 101-3 B 12 · 0" STL 101-4 A 3 · 0" 7 · 2" HM PTD 1 HH 102-1 A 3 · 0" 7 · 2" HM PTD 1 HH 102-2 A 3 · 0" 7 · 2" HM PTD 1 HH 102-3 B 10 · 0" 10 · 0" STL 103-1 A (2) 3 · 0" 7 · 2" HM PTD 1 HH 103-3 B 10 · 0" 10 · 0" STL 103-1 A (2) 3 · 0" 7 · 2" HM PTD 1 HH 103-3 B 10 · 0" 10 · 0" STL 103-1 A (2) 3 · 0" 7 · 2" HM PTD 1 HH 103-3 B 10 · 0" 10 · 0" STL 103-1 A (2) - 0" 7 · 2" HM PTD 1 HH 103-3 B 10 · 0" 10 · 0" STL SEE DOOR SCHEDULE A INTERIOR SIGNAGE SEE DOOR SCHEDULE SEE DOOR SCHEDULE T / 1/2" MIN. 1/2" MIN T · ALL CAP ROOM SIGNAGE INTERIOR SIGNAGE SEE DOOR SCHEDULE T / 1/2" MIN. 1/2" MIN T · ALL CAP ROOM SIGNAGE I · ALL FONT SHALL BE UPPERCASE AND SANS SERIF. 2. BRAILE SHALL BE UPPERCASE AND SANS SERIF. 3. BASELINE OF GRADE 2 BRAILLE MUST BE BETWEEN 4 4. SIGNS PROVIDED AT A DOOR SHALL BE LOCATED AT 5. PROVIDE PLASTIC PANELS WITH INTEGRAL, RAISED TA B ROVIDE PLASTIC PANELS WITH INTEGRAL, RAISED TANDAR	ME       DETAILS         FL       FINSH       SET       HEAD       JAMB       SILL         I       PTD       1       H3       JS       S2         -       4       7/A-501       J4       -         I       PTD       2       H2       J2       S1         -       4       7/A-501       J4       -       -         I       PTD       2       H2       J2       S1         -       4       7/A-501       J4       -       -         I       PTD       2       H2       J2       S1         -       4       7/A-501       J4       -       -         I       PTD       1       H1       J1       -         I       PTD       4       7/A-501 (SIM)       J3       -         ARIES       Image: Set of the se
-	SQUARE FEET     SF OR SQ. FT.       SQUARE INCHES     SQUARE       STANDARD     STD       STEL     ST       STANDARD     STD       STEL     ST       SUSPENDED     SUSP       SYSTEM     SYS       TELEPHONE     TEL       TOP OF     TO.       TYPICAL     TYP       UNLESS NOTED OTHERWISE     UNO       VERITY IN FIELD     V.I.F.       VERT     WT       WEIGHT     WT       WEIGHT     WT       WEIGHT     WT       WOOD     WD       MATERIALS LEGEND       STANDARY       WOOD       WOOD       CONCERTE       MASONRY       CONCRETE       MASONRY       BRICK       SALED       VUBBER COVE       P.1       102       CONC.       SEALED       RUBBER COVE       P.1       103       CONC.       SEALED        WUBER COVE </th <th>NO. TYPE SIZE MATE FINISH TYPE MAT 101-1 A (2) 3 · 0" 7 · 2" HM PTD 1 HH 101-2 A 3 · 0" 7 · 2" HM PTD 1 HH 101-3 B 12 · 0" STL 101-4 A 3 · 0" 7 · 2" HM PTD 1 HH 102-1 A 3 · 0" 7 · 2" HM PTD 1 HH 102-2 A 3 · 0" 7 · 2" HM PTD 1 HH 102-3 B 10 · 0" 10 · 0" STL 103-1 A (2) 3 · 0" 7 · 2" HM PTD 1 HH 103-3 B 10 · 0" 10 · 0" STL 103-1 A (2) 3 · 0" 7 · 2" HM PTD 1 HH 103-3 B 10 · 0" 10 · 0" STL 103-1 A (2) 3 · 0" 7 · 2" HM PTD 1 HH 103-3 B 10 · 0" 10 · 0" STL 103-1 A (2) - 0" 7 · 2" HM PTD 1 HH 103-3 B 10 · 0" 10 · 0" STL SEE DOOR SCHEDULE A INTERIOR SIGNAGE SEE DOOR SCHEDULE SEE DOOR SCHEDULE T / 1/2" MIN. 1/2" MIN T · ALL CAP ROOM SIGNAGE INTERIOR SIGNAGE SEE DOOR SCHEDULE T / 1/2" MIN. 1/2" MIN T · ALL CAP ROOM SIGNAGE I · ALL FONT SHALL BE UPPERCASE AND SANS SERIF. 2. BRAILE SHALL BE UPPERCASE AND SANS SERIF. 3. BASELINE OF GRADE 2 BRAILLE MUST BE BETWEEN 4 4. SIGNS PROVIDED AT A DOOR SHALL BE LOCATED AT 5. PROVIDE PLASTIC PANELS WITH INTEGRAL, RAISED TA B ROVIDE PLASTIC PANELS WITH INTEGRAL, RAISED TANDAR</th> <th>ME       DETAILS         FL       FINSH       SET       HEAD       JAMB       SILL         I       PTD       1       H3       JS       S2         -       4       7/A-501       J4       -         I       PTD       2       H2       J2       S1         -       4       7/A-501       J4       -       -         I       PTD       2       H2       J2       S1         -       4       7/A-501       J4       -       -         I       PTD       2       H2       J2       S1         -       4       7/A-501       J4       -       -         I       PTD       1       H1       J1       -         I       PTD       4       7/A-501 (SIM)       J3       -         ARIES       Image: Set of the se</th>	NO. TYPE SIZE MATE FINISH TYPE MAT 101-1 A (2) 3 · 0" 7 · 2" HM PTD 1 HH 101-2 A 3 · 0" 7 · 2" HM PTD 1 HH 101-3 B 12 · 0" STL 101-4 A 3 · 0" 7 · 2" HM PTD 1 HH 102-1 A 3 · 0" 7 · 2" HM PTD 1 HH 102-2 A 3 · 0" 7 · 2" HM PTD 1 HH 102-3 B 10 · 0" 10 · 0" STL 103-1 A (2) 3 · 0" 7 · 2" HM PTD 1 HH 103-3 B 10 · 0" 10 · 0" STL 103-1 A (2) 3 · 0" 7 · 2" HM PTD 1 HH 103-3 B 10 · 0" 10 · 0" STL 103-1 A (2) 3 · 0" 7 · 2" HM PTD 1 HH 103-3 B 10 · 0" 10 · 0" STL 103-1 A (2) - 0" 7 · 2" HM PTD 1 HH 103-3 B 10 · 0" 10 · 0" STL SEE DOOR SCHEDULE A INTERIOR SIGNAGE SEE DOOR SCHEDULE SEE DOOR SCHEDULE T / 1/2" MIN. 1/2" MIN T · ALL CAP ROOM SIGNAGE INTERIOR SIGNAGE SEE DOOR SCHEDULE T / 1/2" MIN. 1/2" MIN T · ALL CAP ROOM SIGNAGE I · ALL FONT SHALL BE UPPERCASE AND SANS SERIF. 2. BRAILE SHALL BE UPPERCASE AND SANS SERIF. 3. BASELINE OF GRADE 2 BRAILLE MUST BE BETWEEN 4 4. SIGNS PROVIDED AT A DOOR SHALL BE LOCATED AT 5. PROVIDE PLASTIC PANELS WITH INTEGRAL, RAISED TA B ROVIDE PLASTIC PANELS WITH INTEGRAL, RAISED TANDAR	ME       DETAILS         FL       FINSH       SET       HEAD       JAMB       SILL         I       PTD       1       H3       JS       S2         -       4       7/A-501       J4       -         I       PTD       2       H2       J2       S1         -       4       7/A-501       J4       -       -         I       PTD       2       H2       J2       S1         -       4       7/A-501       J4       -       -         I       PTD       2       H2       J2       S1         -       4       7/A-501       J4       -       -         I       PTD       1       H1       J1       -         I       PTD       4       7/A-501 (SIM)       J3       -         ARIES       Image: Set of the se

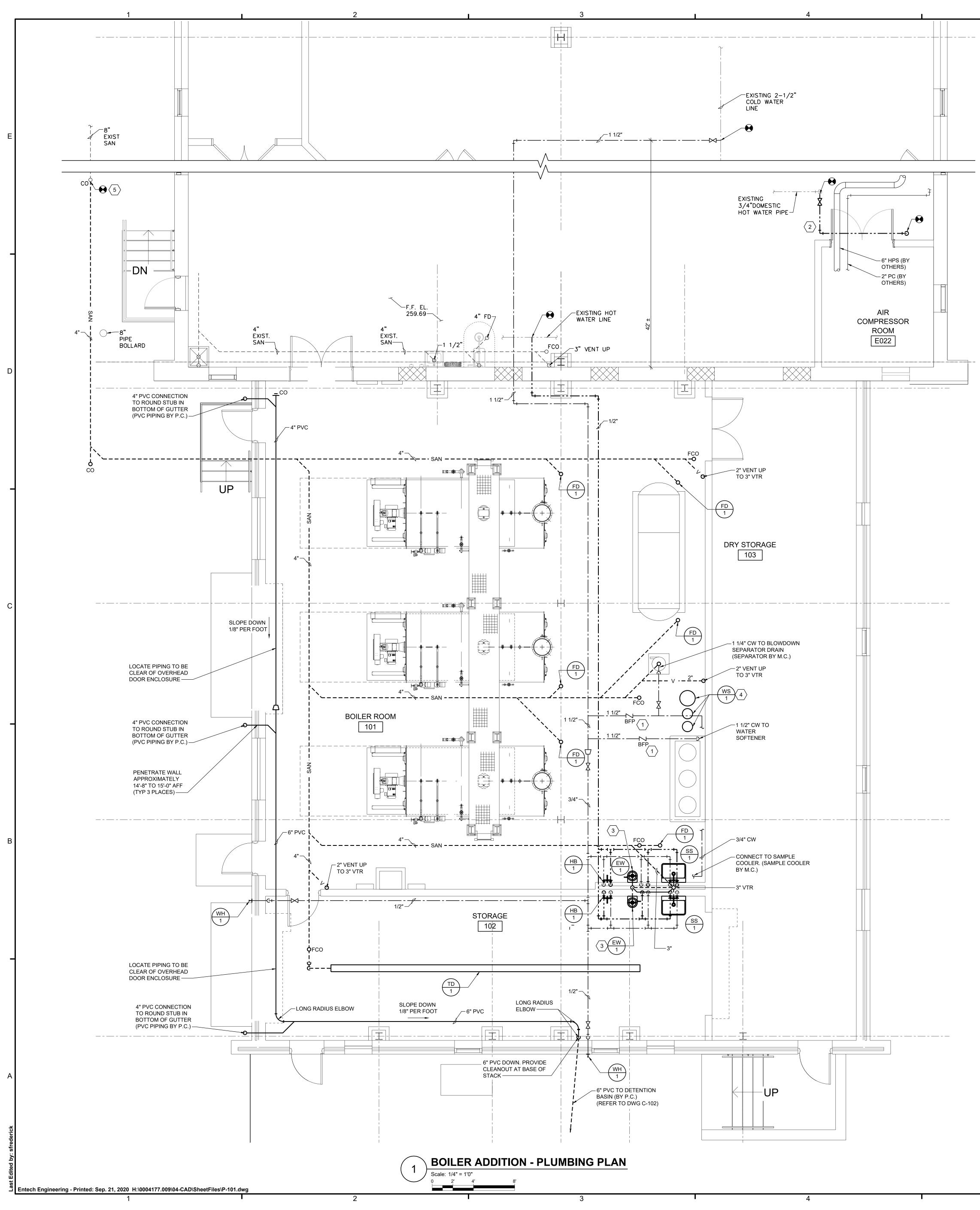


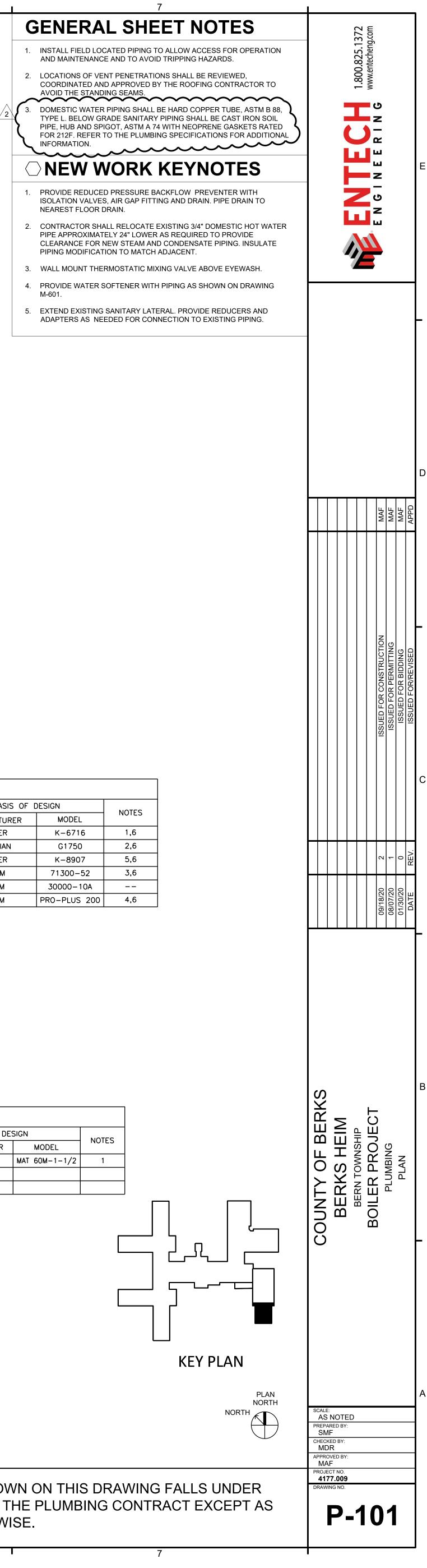






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AL TOP PLATE TO SE CAVITY, IERE TO T.O. BLOCK USTABLE ANCHOR 6" O.C.	09/18/20 03/07/20 01/30/20 01/30/20	
E STRUCT. DWGS.) MU @ 8'-0" HIGH, . ROOM SIDE JJ LANT JOINT	COUNTY OF BERKS BERKS HEIM BERN TOWNSHIP BERN TOWNSHIP BERN TOWNSHIP BERN TOWNSHIP BOILER PROJECT ARCHITECTURAL AND DETAILS AND DETAILS	
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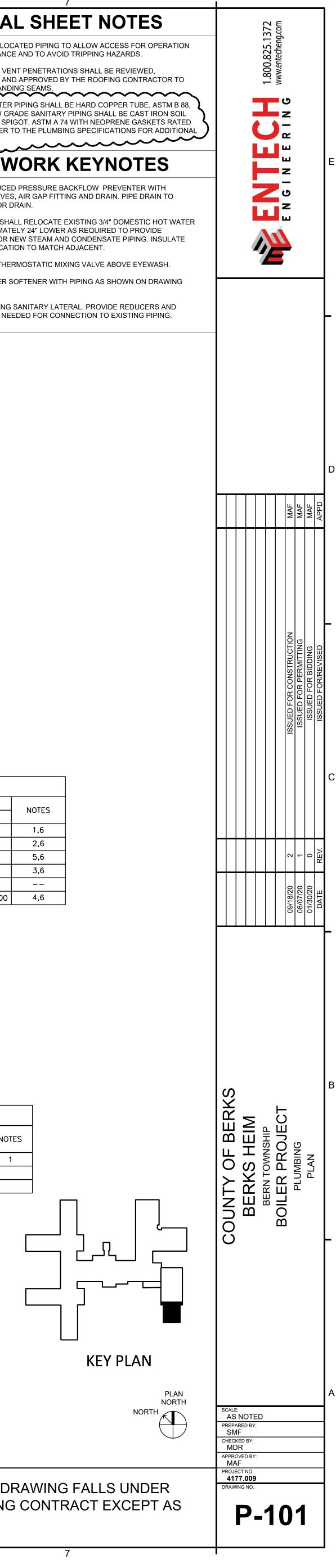
	PLUMBING FIXTURE SCHEDULE										
ITEM	DESCRIPTION	MOUNTING	PI	PING CO	NNECTION	۹S	BASIS OF	NOTEC			
NO.	DESCRIPTION	HEIGHT	SAN	VENT	CW	нพ	MANUFACTURER	MODEL	NOTES		
SS-1	SERVICE SINK	28"	3"	2"	1/2"	1/2"	KOHLER	K-6716	1,6		
EW-1	EYE WASH, WALL MOUNTED	36"	1 1/4"		1/2"	1/2"	GUARDIAN	G1750	2,6		
HB-1	FAUCET, HW, CW	36"			1/2"	1/2"	KOHLER	K-8907	5,6		
WH-1	WALL HYDRANT, FREEZE PROOF	24"			1/2"		JOSAM	71300-52	3,6		
FD-1	FLOOR DRAIN, LARGE STRAINER	-1/2"	4"				JOSAM	30000-10A			
TD-1	TRENCH DRAIN	-1/2"	4"				JOSAM	PRO-PLUS 200	4,6		
NOTES:											

 PROVIDE SERVICE SINK FAUCET K-8905. STRAINER AND 3" P-TRAP.
 PROVIDE THERMOSTATIC MIXING VALVE, GUARDIAN MODEL G3600LF AND EMERGENCY EYEWASH SIGN. PROVIDE WALL BOX WITH VACUUM BREAKER AND BRONZE FACE.
 PROVIDE CAST IRON GRATE AND END OUTLET.
 PROVIDE WALL MOUNTED HOSE RACK ADJACENT TO HOSE BIB.
 PROVIDE BASIS OF DESIGN OR APPROVED EQUAL.

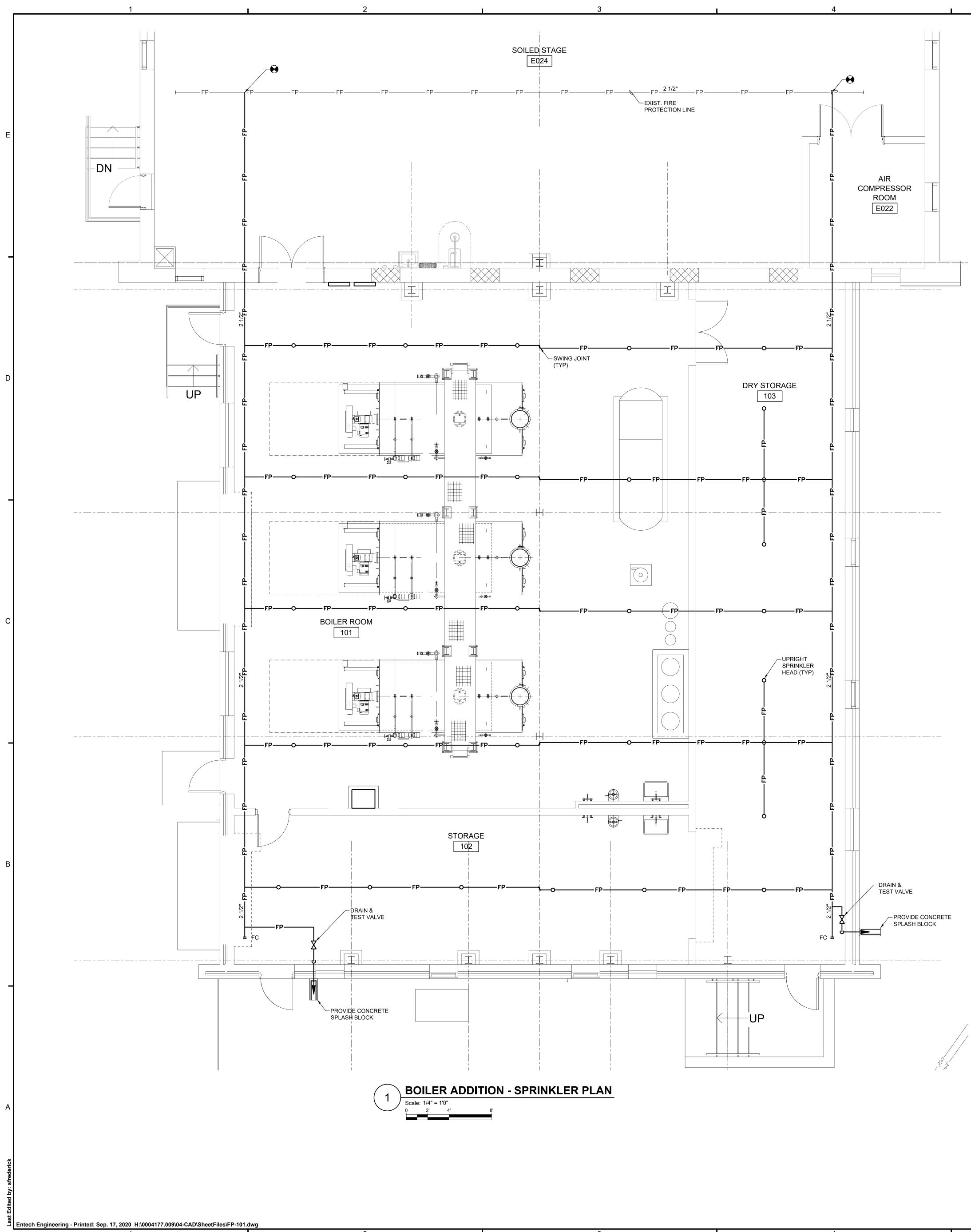
	WATER SOFTENER SCHEDULE															
ITEM			LOW MAX. PRESS. RESIN	FLOW MAX. PRESS. RESIN (GPM) DROP (PSI) (CF)							SALT STORAGE	HARDNESS	(GR./GAL.)	BASIS OF DE	SIGN	NOTES
NO.		(GPM)	(CF)		(LBS.)	INCOMING	LEAVING	MANUFACTURER	MODEL	NOTES						
WS-1	DUPLEX	28	15	2X2	300			MARLO	MAT 60M-1-1/2	1						

NOTES: 1. PROVIDE BASIS OF DESIGN OR APPROVED EQUAL.

SCHEDULE WORK IN OCCUPIED SPACES AFTER 3 PM.

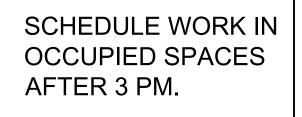


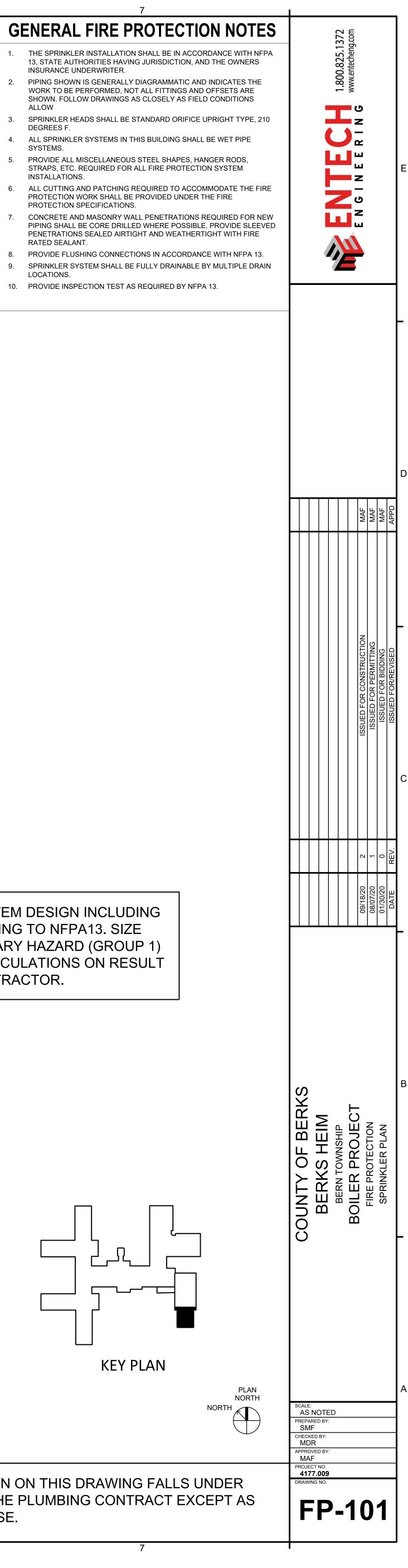
THE WORK SHOWN ON THIS DRAWING FALLS UNDER THE SCOPE OF THE PLUMBING CONTRACT EXCEPT AS NOTED OTHERWISE.



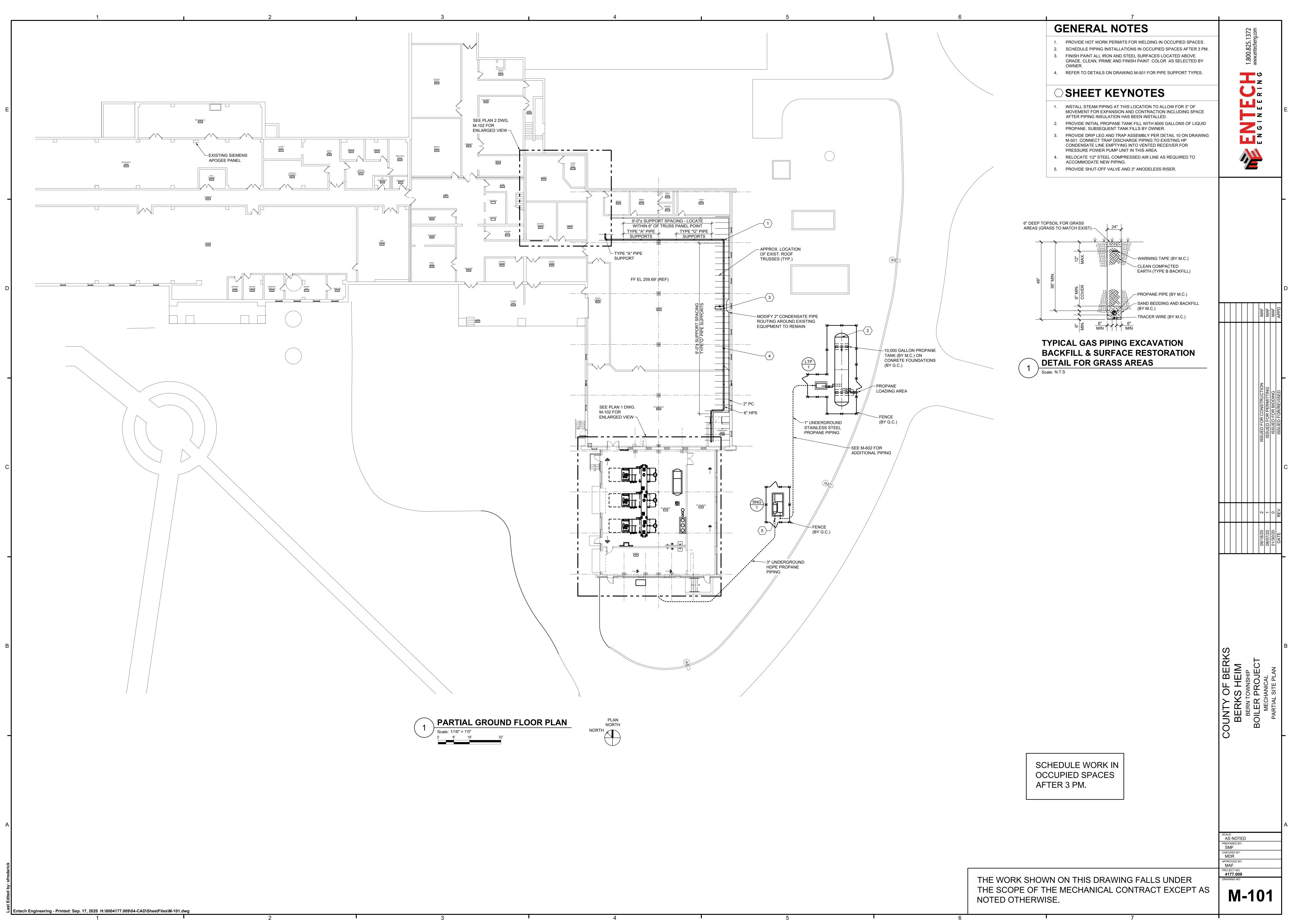
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G	ENERAL FIRE PROTEC
1.	THE SPRINKLER INSTALLATION SHALL BE IN A 13, STATE AUTHORITIES HAVING JURISDICTION INSURANCE UNDERWRITER.
2.	PIPING SHOWN IS GENERALLY DIAGRAMMATIC WORK TO BE PERFORMED, NOT ALL FITTINGS SHOWN. FOLLOW DRAWINGS AS CLOSELY AS ALLOW
3.	SPRINKLER HEADS SHALL BE STANDARD ORIF DEGREES F.
4.	ALL SPRINKLER SYSTEMS IN THIS BUILDING SI SYSTEMS.
5.	PROVIDE ALL MISCELLANEOUS STEEL SHAPES STRAPS, ETC. REQUIRED FOR ALL FIRE PROTE INSTALLATIONS.
6.	ALL CUTTING AND PATCHING REQUIRED TO A PROTECTION WORK SHALL BE PROVIDED UND PROTECTION SPECIFICATIONS.
7.	CONCRETE AND MASONRY WALL PENETRATIC PIPING SHALL BE CORE DRILLED WHERE POSS PENETRATIONS SEALED AIRTIGHT AND WEATH RATED SEALANT.
8.	PROVIDE FLUSHING CONNECTIONS IN ACCOR
9.	SPRINKLER SYSTEM SHALL BE FULLY DRAINAN LOCATIONS.
40	

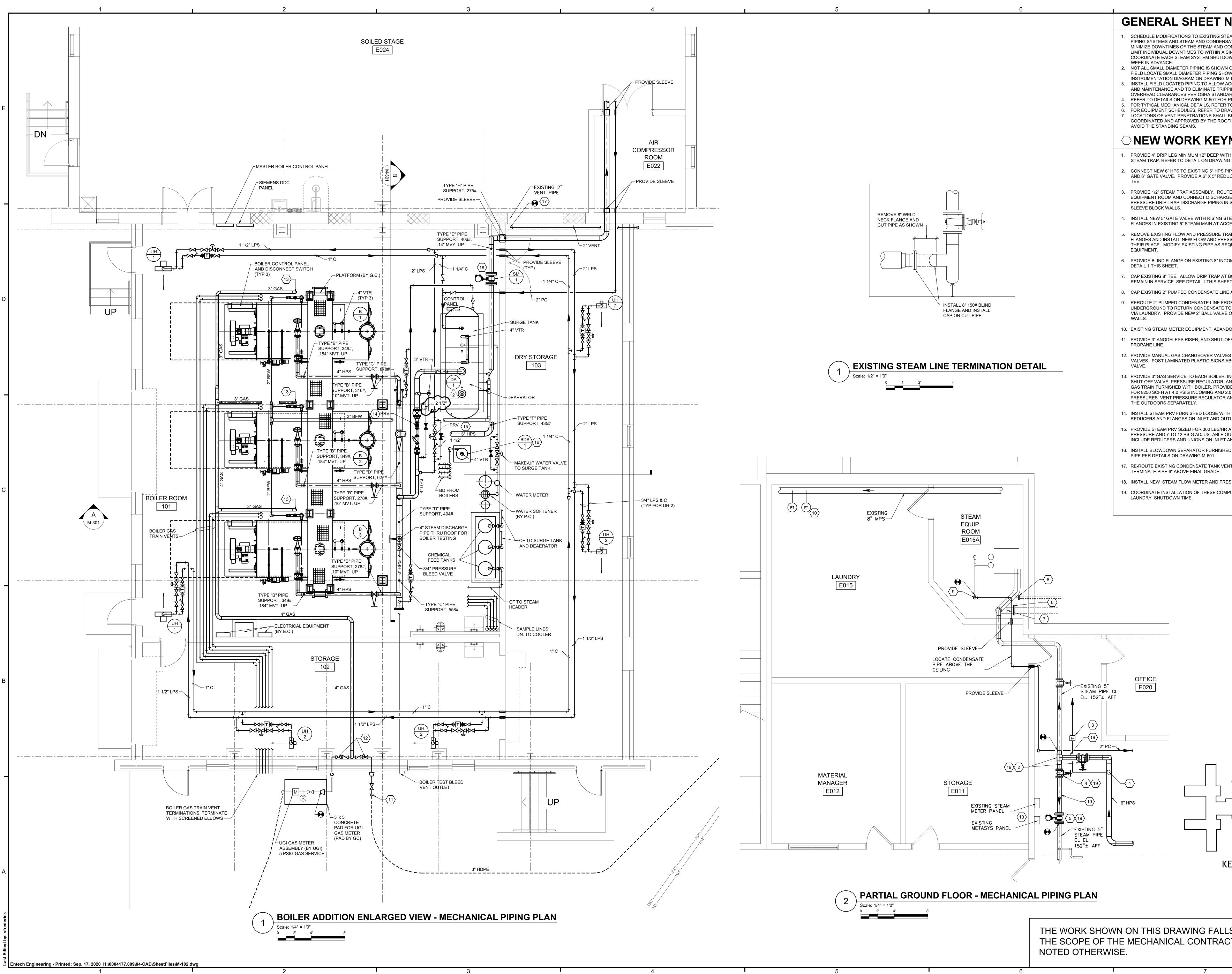
PROVIDE SHOP DRAWINGS AND SPRINKLER SYSTEM DESIGN INCLUDING HYDRAULIC CALCULATIONS, PREPARED ACCORDING TO NFPA13. SIZE WET PIPE SPRINKLER SYSTEM BASED ON ORDINARY HAZARD (GROUP 1) PROVIDING 0.15 GPM/SF OVER 1500 SF. BASE CALCULATIONS ON RESULT OF FIRE FLOW TEST TO BE PERFORMED BY CONTRACTOR.



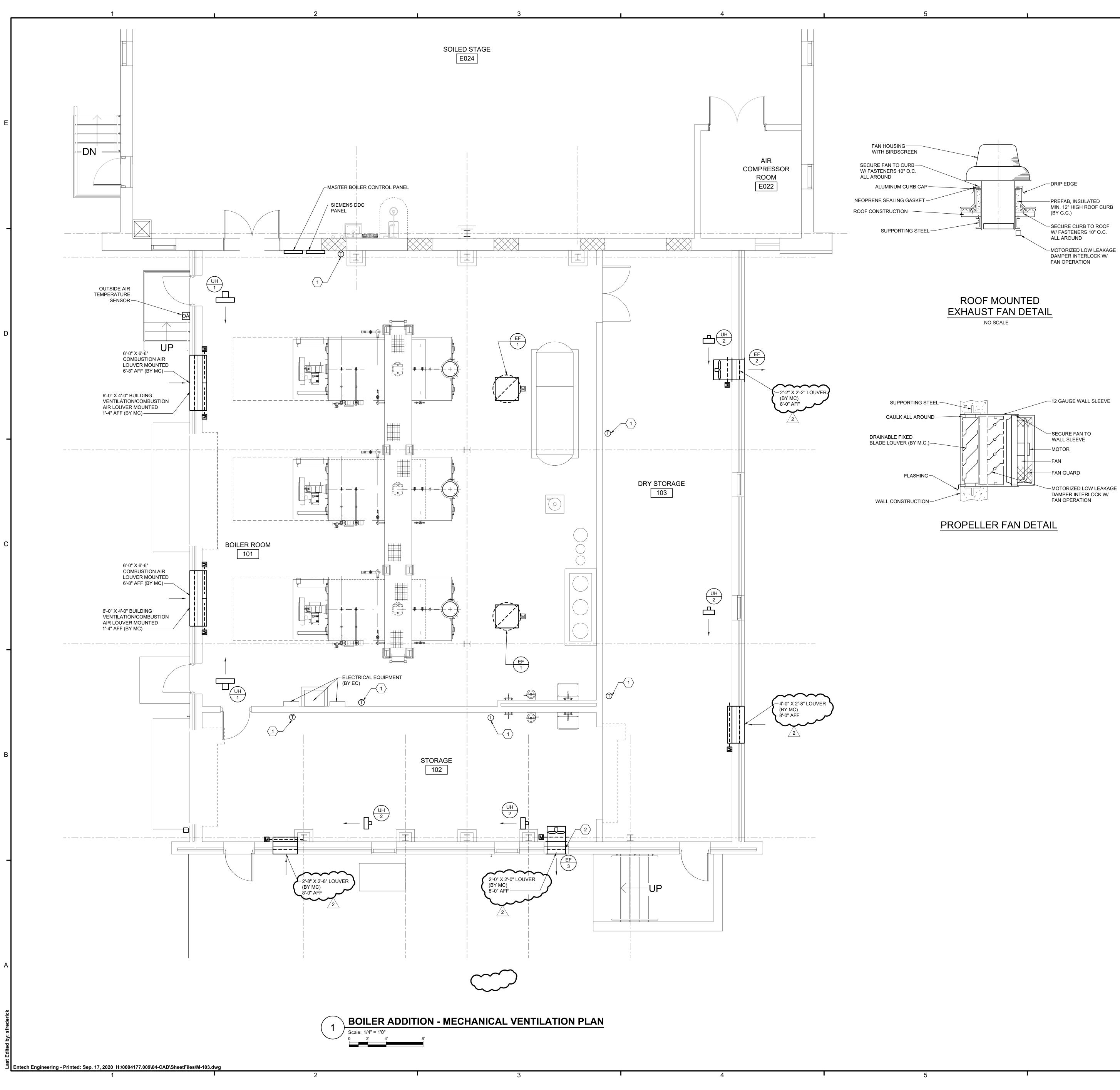


THE WORK SHOWN ON THIS DRAWING FALLS UNDER THE SCOPE OF THE PLUMBING CONTRACT EXCEPT AS NOTED OTHERWISE.





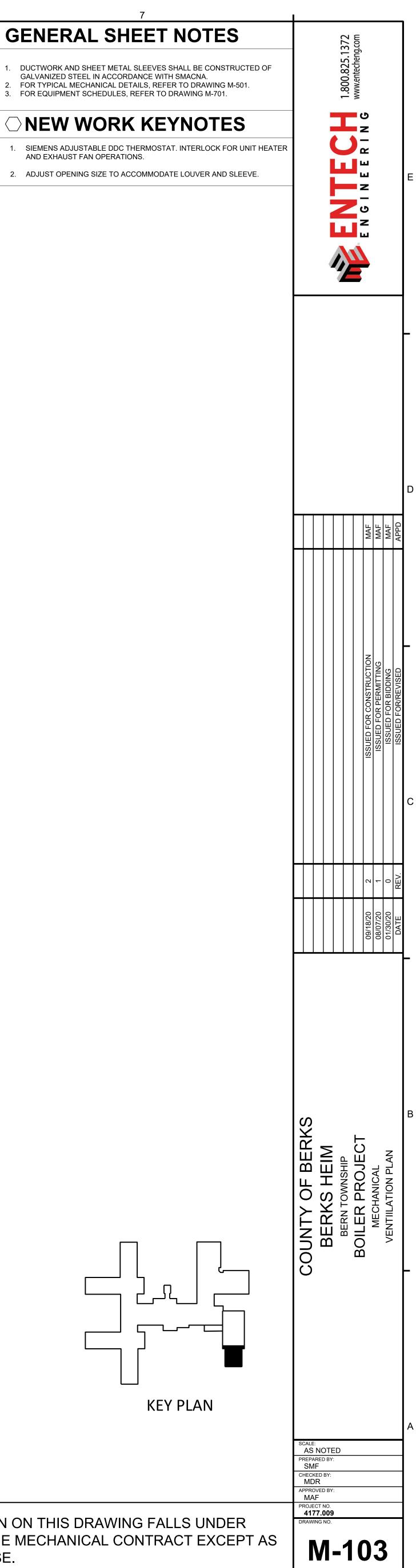
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EAM AND CONDENSATE SATE CHANGEOVERS TO ONDENSATE SYSTEMS. SINGLE 8 HOUR SHIFT. DWN WITH THE OWNER ONE I ON PLAN AND SECTIONS. DWN ON PIPING AND M-601. ACCESS FOR OPERATION PING HAZARDS AND ARDS PIPE SUPPORT TYPES. TO DRAWING M-501. AWING M-701. BE REVIEWED, FING CONTRACTOR TO <b>NOTES</b> TH CONNECTION FOR G M-501. PIPING WITH 6"X 6"X 6" TEE JCER ON EACH SIDE OF TE DISCHARGE TO STEAM	ENTECH www.entecheng.com	E
GE TO OTHER HIGH INSTEAM EQUIPMENT ROOM. TEM AND COMPANION CESSIBLE LOCATION. RANSMITTERS, ADD SSURE TRANSMITTER IN EQUIRED TO FIT NEW OMING STEAM MAIN. SEE BOTTOM OF RISER TO ET. E AT WALL. OM CONNECTION TO TO NEW BOILER SYSTEM ON RISER. SLEEVE BLOCK	MAF MAF MAF MAF MAF	D
OFF VALVE ON BLENDED ES WITH SWING CHECK ABOVE EACH MANUAL GAS INCLUDE DIRT LEGS, GAS AND CONNECTION TO 3" DE PRESSURE REGULATOR 2.0 PSIG OUTLET AND GAS TRAIN RELIEF TO		_
H DEAERATOR. INCLUDE TLET PIPING. AT 100 PSIG INCOMING DUTLET PRESSURE. AND OUTLET PIPING. ED WITH BOILER PACKAGE. NT OUT THE WALL AND ESSURE TRANSMITTER. PONENTS TO MINIMIZE THE	ISSUED FOR CONSTRUCTION ISSUED FOR PERMITING ISSUED FOR BIDDING ISSUED FOR BIDDING ISSUED FOR BIDDING	С
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EY PLAN NORTH NORTH	SCALE: AS NOTED PREPARED BY: SMF CHECKED BY: MDR APPROVED BY: MAF PROJECT NO. 4177.009 DRAWING NO.	А
CT EXCEPT AS	M-102	



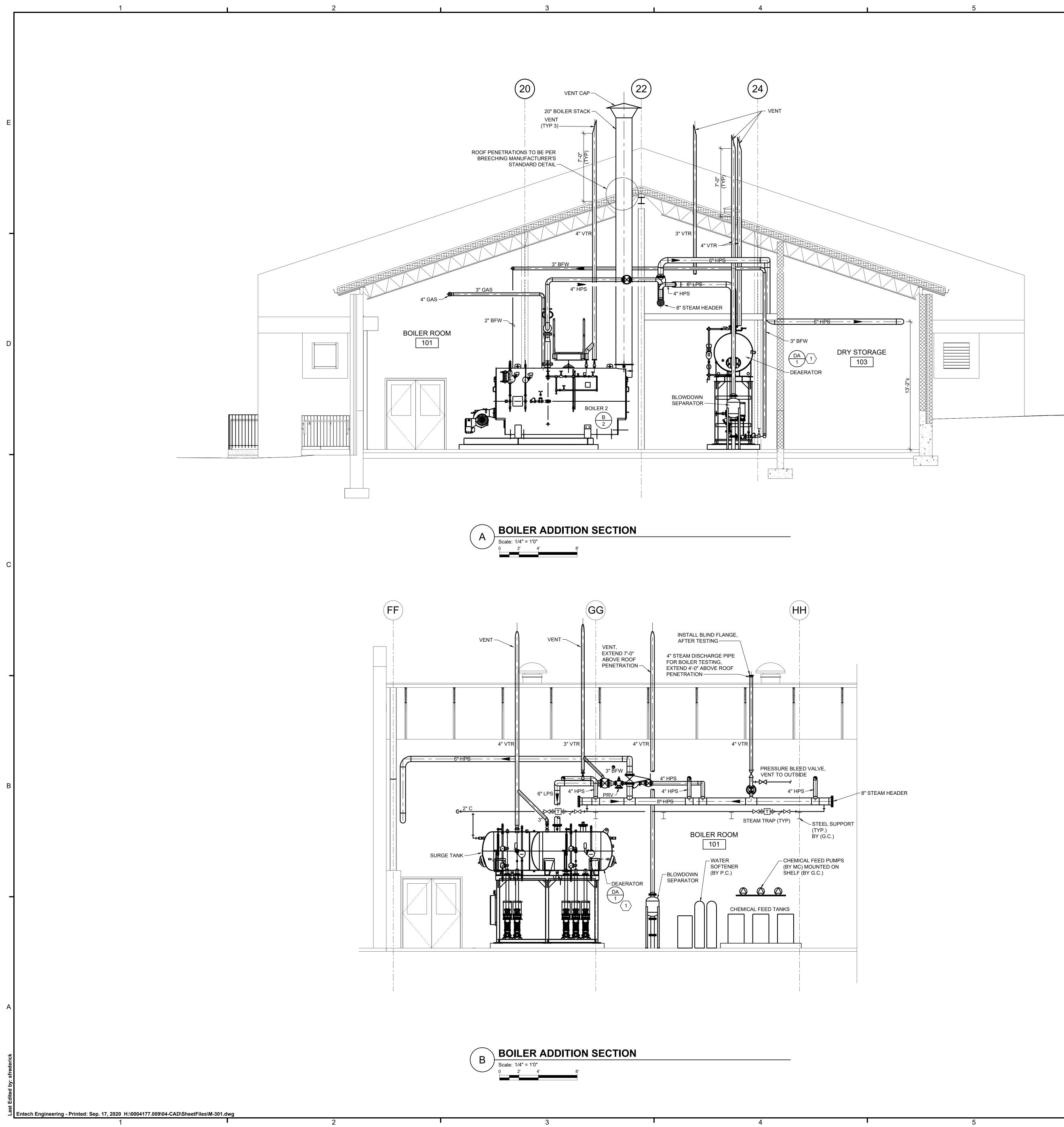
## **GENERAL SHEET NOTES**

GALVANIZED STEEL IN ACCORDANCE WITH SMACNA.2. FOR TYPICAL MECHANICAL DETAILS, REFER TO DRAWING M-501. 3. FOR EQUIPMENT SCHEDULES, REFER TO DRAWING M-701.

- AND EXHAUST FAN OPERATIONS.

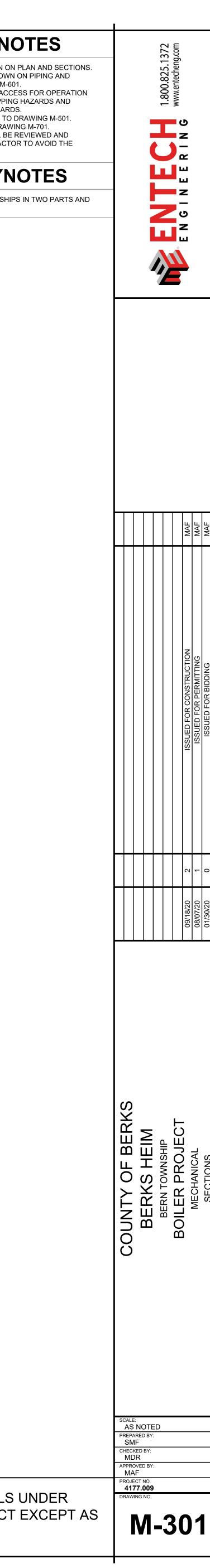


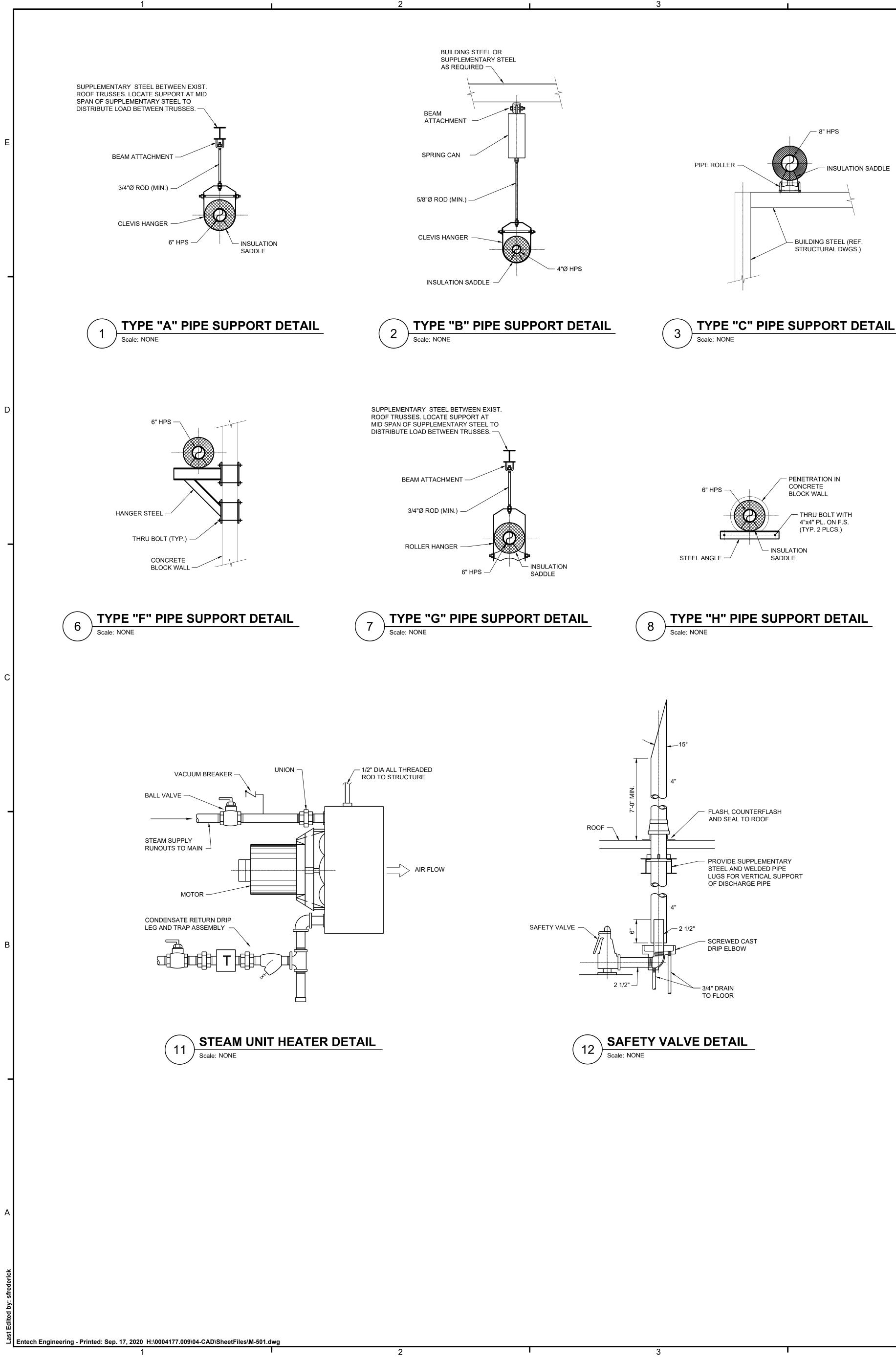
THE WORK SHOWN ON THIS DRAWING FALLS UNDER THE SCOPE OF THE MECHANICAL CONTRACT EXCEPT AS NOTED OTHERWISE.

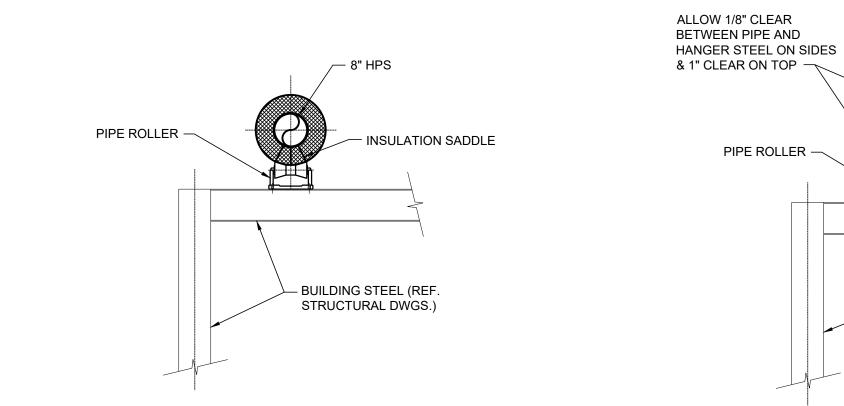


	7
G	<b>GENERAL SHEET N</b>
1.	NOT ALL SMALL DIAMETER PIPING IS SHOWN O FIELD LOCATE SMALL DIAMETER PIPING SHOW INSTRUMENTATION DIAGRAM ON DRAWING M-6
2.	INSTRUMENTATION DIAGRAM ON DRAWING M-C INSTALL FIELD LOCATED PIPING TO ALLOW ACC AND MAINTENANCE AND TO ELIMINATE TRIPPIN OVERHEAD CLEARANCES PER OSHA STANDAR
3.	FOR TYPICAL MECHANICAL DETAILS, REFER TO
4.	FOR EQUIPMENT SCHEDULES, REFER TO DRAV
5.	LOCATIONS OF VENT PENETRATIONS SHALL BE COORDINATED WITH THE ROOFING CONTRACT STANDING SEAMS.
	NEW WORK KEYN
1.	DEAERATOR/FEEDWATER TANK ASSEMBLY SHI MUST BE ASSEMBLED IN THE FIELD.

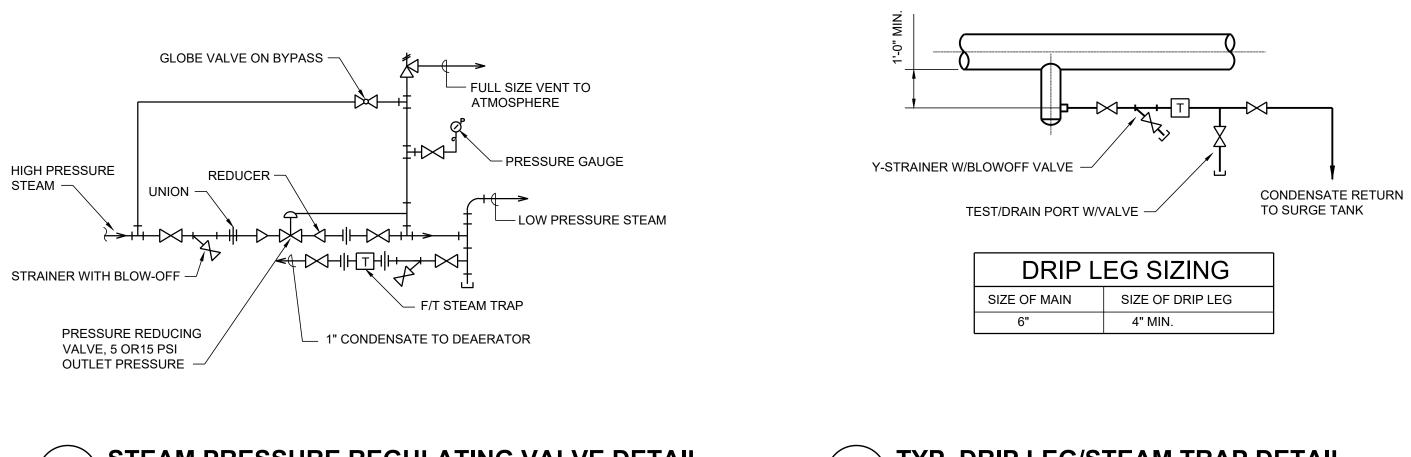
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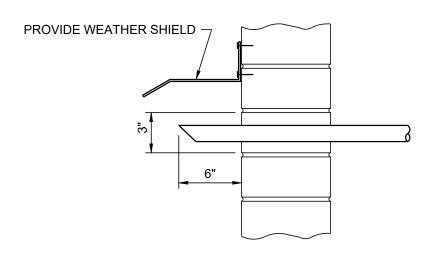








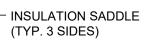
## TYPE "H" PIPE SUPPORT DETAIL







HANGER STEEL	
/— 8" HPS	





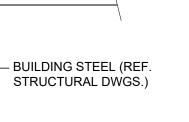
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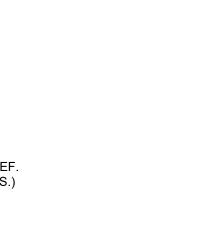
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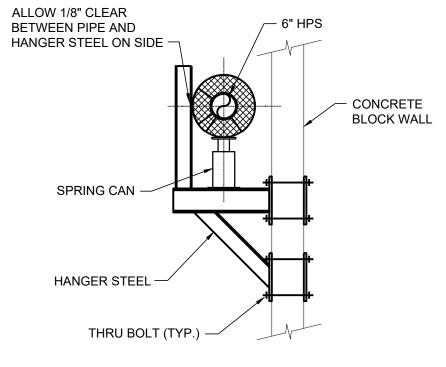
Scale: NONE

Scale: NONE









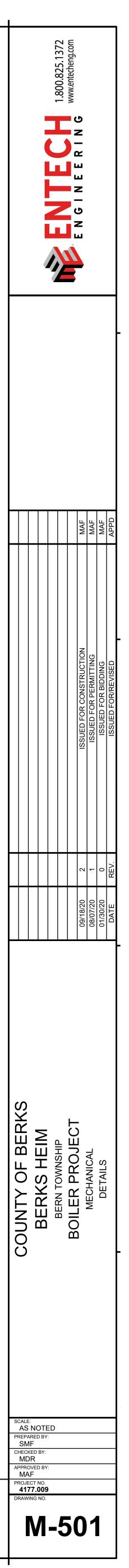
## TYPE "D" PIPE SUPPORT DETAIL

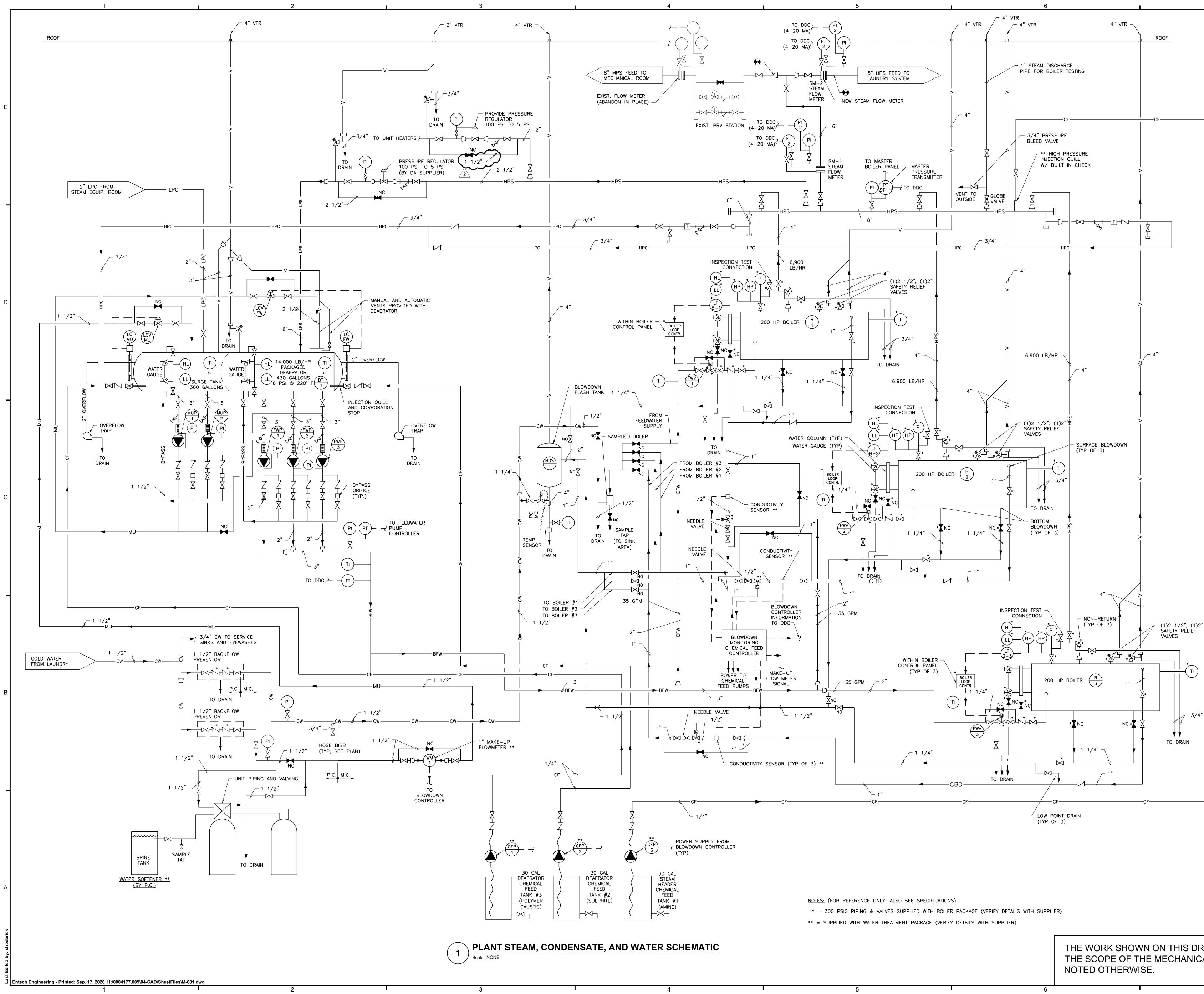
### **TYPE "E" PIPE SUPPORT DETAIL** 5 Scale: NONE

## **STEAM PRESSURE REGULATING VALVE DETAIL**

### TYP. DRIP LEG/STEAM TRAP DETAIL 10 ) Scale: NONE

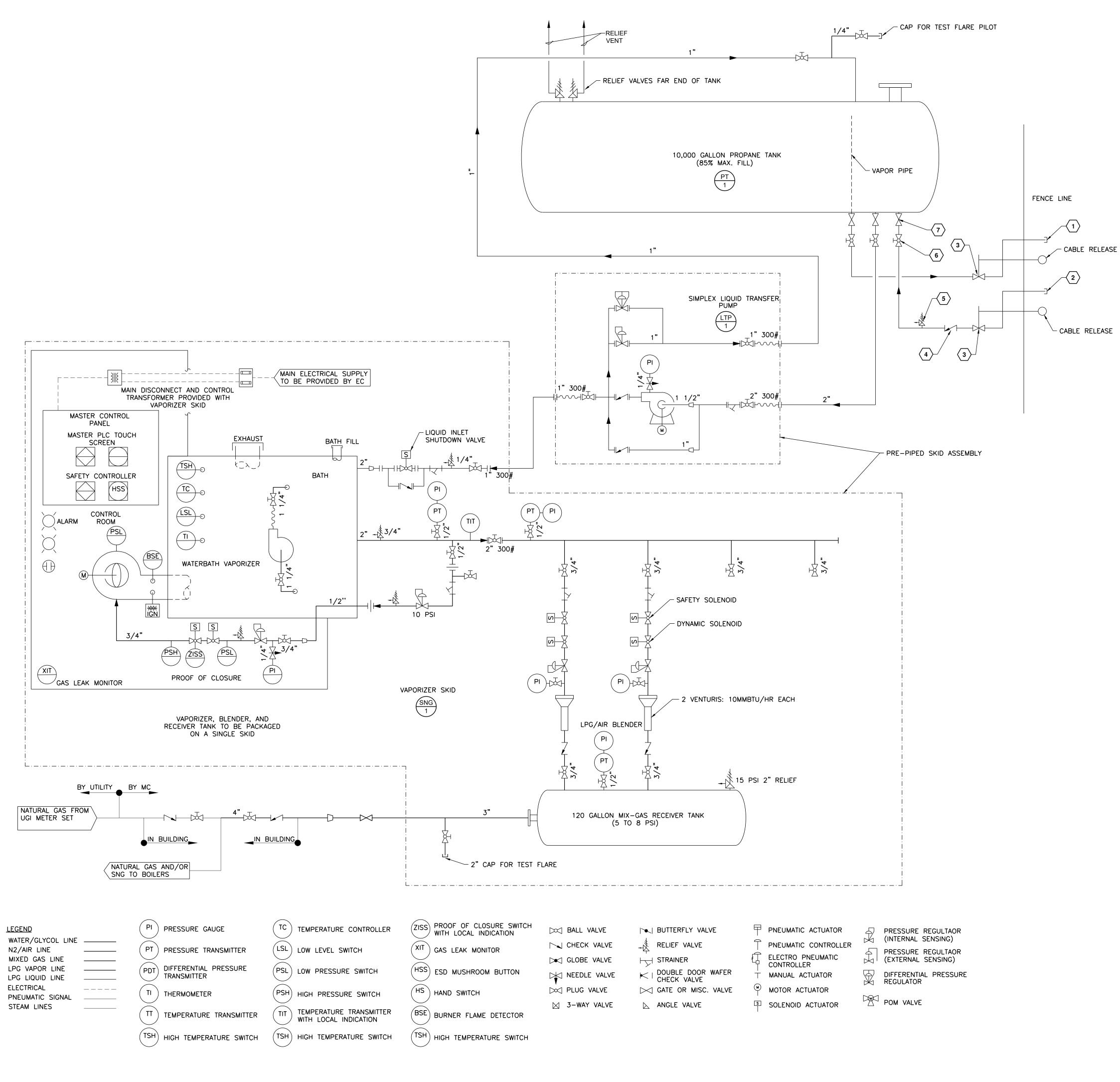
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									ISSUED FOR CONSTRUCTION	ISSUED FOR PERMITTING	ISSUED FOR BIDDING	ISSUED FOR/REVISED	
LEGE PC MC ⊠	END PLUMBING CONTRACTOR HVAC CONTRACTOR SHUT-OFF VALVE (GATE, BALL AND BUTTERFLY)												С
$\bowtie$	GLOBE VALVE NORMALLY CLOSED VALVE CHECK VALVE								2	-	0	REV.	
Xu Xe	MOTOR OPERATED VALVE SOLENOID VALVE								09/18/20	08/07/20	01/30/20	DATE	
K I A K K K	CONTROL/PRESSURE REGULATING VALVE RELIEF VALVE CONNECTION TO EXISTING Y STRAINER WITH BLOWOFF												-
	DRAIN TO FLOOR REDUCER												
₩ V A.F.F.	UNION VENT TO OUTSIDE ABOVE FINISHED FLOOR										GRAM		в
T ↓	STEAM TRAP DRIP PAN ELBOW W/ DRAIN		りに入入し		≥II		L F	LC L	-	1	TION DIAC		
— <u>—</u> MU— —MU— —HPS— — LPS —	FLEXIBLE CONNECTION BOILER MAKE-UP WATER HIGH PRESSURE STEAM LOW PRESSURE STEAM		С С		BERKS HE			BOILER PROJECT		MECHANICAL	PIPING AND INSTRUMENTATION DIAGRAM		
– HPC – – LPC – – G –	HIGH PRESSURE CONDENSATE LOW PRESSURE CONDENSATE GAS			Ĺ	Ы		Ō	BOIL	1 ) )		NG AND IN		_
— FW — — BD — – FOS — – FOR — — CA —	FEEDWATER BLOWDOWN FUEL OIL SUPPLY FUEL OIL RETURN COMPRESSED AIR										IdId		
– BBD — – CBD — – BFW —	BOTTOM BLOWDOWN CONTINUOUS SURFACE BLOWDOWN BOILER FEEDWATER												
— CF — — ST — —CW —	CHEMICAL FEED STEAH HEADER COLD WATER (BY M.C.)												А
—CW — NC	COLD WATER (BY P.C.) NORMALLY CLOSED VALVE	Pi	REP/ SN	NC AREI IF	OTE DBY								
NO	NORMALLY OPEN VALVE	AF Pf	MA Roje		D BY NO.								
	ALLS UNDER RACT EXCEPT AS		RAW	ING	_		6	5	0				
7								_ `			-		



PROPANE FLOW DIAGRAM Scale: NONE

## **GENERAL SHEET NOT**

1. CONTRACTOR SHALL PROVIDE A COMPLETE LP SYSTE COMPLIES WITH NFPA 58, INTERNATIONAL FIRE CODE, LOCAL REQUIREMENTS. THE CONTRACTORS LP SYSTE CONSTRUCTION DRAWINGS SHALL BE STAMPED BY PROFESSIONAL ENGINEER IN THE STATE OF PENNSYL

## **PROPANE TANK KEYED**

- 1. MALE HOSE CONNECTION WITH CAP. 2. FEMALE HOSE CONNECTION WITH PLUG.
- 3. EMERGENCY SHUT-OFF VALVE WITH THERMAL ACTU CLOSURE (TYPE 550 SNAPPY JOE ESV OR APPROVE
- 4. BACKCHECK VALVE.
- 5. HYDROSTATIC RELIEF VALVE. 6. GLOBE OR ANGLE VALVE. (TYP.)
- 7. EXCESS FLOW OR INTERNAL VALVE. (TYP.)

THE WORK SHOWN ON THIS DRAWING FALLS UN THE SCOPE OF THE MECHANICAL CONTRACT EX NOTED OTHERWISE.

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	09/18/20 08/07/20 01/30/20 DATE	
	COUNTY OF BERKS BERKS HEIM BERN TOWNSHIP BERN TOWNSHIP BOILER PROJECT MECHANICAL PROPANE FLOW DIAGRAM	
NDER XCEPT AS	A SCALE: AS NOTED PREPARED BY: SMF CHECKED BY: MDR APPROVED BY: MAF PROJECT NO. 4177.009 DRAWING NO. MA-F0602	L

									STFAM I		SCHE				
	STEAM BOILER SCHEDULE														
ITEM	BOILER	FUEL	NOMINAL	GROSS	MIN HEATING	FUEL TO STE	AM EFFICIENCY A	T FIRING RATES (	(NATURAL GAS)	FLUE	BLOWER			BASIS OF DESIGN	NOTES
NO.	TYPE	TYPE	SIZE	(#/HR)	SURFACE - AREA	100%	75%	50%	25%	VENT DIA		VOLTAGE	MANUFACTURER	MODEL	NOTES
B-1	3-PASS FIRETUBE	NATURAL GAS	200 BHP	6,900	1000 S.F.	82.7%	82.9%	83.0%	82.5%	20"	10	460/3/60	SUPERIOR	SUPER SEMINOLE X6-5-1000-S150	1,2,3,4,5,6,7,8,9,10,11,12
B-2	3-PASS FIRETUBE	NATURAL GAS	200 BHP	6,900	1000 S.F.	82.7%	82.9%	83.0%	82.5%	20"	10	460/3/60	SUPERIOR	SUPER SEMINOLE X6-5-1000-S150	1,2,3,4,5,6,7,8,9,10,11,12
B-3	3-PASS FIRETUBE	NATURAL GAS	200 BHP	6,900	1000 S.F.	82.7%	82.9%	83.0%	82.5%	20"	10	460/3/60	SUPERIOR	SUPER SEMINOLE X6-5-1000-S150	1,2,3,4,5,6,7,8,9,10,11,12

NOTES:

1. PROVIDE 150 PSIG BOILER WITH 125 PSIG ASME RELIEF VALVES. 100 PSIG OPERATING PRESSURE. 2. PROVIDE VFD BURNER CONTROL WITH TOUCHSCREEN CONTROL PANEL & BACnet/IP COMMUNICATIONS.

PROVIDE MODULATING LINKAGELESS BURNER CONTROL WITH 10:1 TURNDOWN.
 PROVIDE LOCKABLE SINGLE POINT POWER WITH FUSED DISCONNECT SWITCH.

5. PROVIDE 250# NON-RETURN VALVE AND STEAM HEADER SPOOL PIECE.

6. PROVIDE FEEDWATER CONTROL VALVE.
 7. PROVIDE BLOWDOWN VALVE PACKAGE.

8. FIELD INSTALLED ITEMS SHIPPED LOOSE WITH BOILER.
 9. PROVIDE CSD-1 GAS TRAIN.

10. PROVIDE FACTORY START-UP AND TRAINING. 11. PROVIDE BASIS OF DESIGN OR APPROVED EQUAL.

12. COORDINATE BOILER TRIM LOCATIONS WITH PLATFORM SUPPORTS SHOWN ON DRAWING M-102 AND S-101.

			E	XHAU	ST F	AN SC	CHEDUL	E			
ITEM	TYPE	MOUNTING	CFM	ESP	DRIVE	FAN	MOTOR	VOLTAGE	BASIS OF DE	SIGN	NOTES
NO.		WOONTING		(WC)		RPM	RATING	VULIAUL	MANUFACTURER	MODEL	
EF – 1	CENTRIFUGAL	ROOF	4500	.50"	BELT	965	1 HP	208/3/60	GREENHECK	GB-200	1,2,5,7
EF-2	PROPELLER	WALL	3000	.625"	DIRECT	1750	1/2 HP	120/1/60	GREENHECK	SE2	2,4,5,6,7
EF-3	PROPELLER	WALL	2000	.50"	DIRECT	1750	1/2 HP	120/1/60	GREENHECK	SE2	2,4,5,6,7

NOTES:

1. PROVIDE SLOPED ROOF CURB.

PROVIDE MOTOR OPERATED DAMPER.
 PROVIDE MOTOR SIDE GUARD.

PROVIDE LOCAL DISCONNECT SWITCH.
 PROVIDE SPEED CONTROLLER.
 PROVIDE BASIS OF DESIGN OR APPROVED EQUAL.

	STEAM UNIT HEATER SCHEDULE													
ITEM	TYPE	HEATING	EAT	STEAM	I COIL	MOTOR	THROW	VOLTAGE	BASIS OF	DESIGN	NOTES			
NO.		(BTUH)		LBS/HR PRESS		HP	(FEET)	VULIAGE	MANUFACTURER	ANUFACTURER MODEL				
UH-1	HORIZONTAL	130,000	60	132	5 PSIG	1/3	50	120/1/60	TRANE	UHS132	1,2,3			
UH-2	HORIZONTAL	20,000	60	22	5 PSIG	16 WATTS	24	120/1/60	TRANE	UHS024	1,2,3			

NOTES:

## PROVIDE UNIT MOUNTED NEC DISCONNECT SWITCH. PROVIDE STEAM CONTROL VALVE AND WALL MOUNTED THERMOSTAT. PROVIDE BASIS OF DESIGN OR APPROVED EQUAL.

	BOILER BLOWDOWN TANK SCHEDULE														
ITEM	DESIGN	DIMENSIONS		CONNECTIO	NS (IN INC	HES)		OPERATING	BASIS	OF DESIGN	NOTES				
NO.	PSIG	DIA X H	TANK INLET	TANK OUTLET	VENT	DRAIN	MAKEUP	WEIGHT (LBS)	MANUFACTURER	MODEL	NULS				
BDS-1	150 PSIG	16" x 60"	1.25	1	4	4	1.25	420	SUPERIOR	SBDS-1630-1.2544-AC	1,2,3,4,5				

NOTES:

1. MANUFACTURER TO INCLUDE AFTER COOLER TEMPERATURE REGULATING VALVE ASSEMBLY. 2. MANUFACTURER TO INCLUDE THERMOMETER, STRAINER AND CHECK VALVE.

3. MANUFACTURER TO INCLUDE ASME SECTION VIII DIV 1 CERTIFICATION (U-1A).

4. MANUFACTURER TO INCLUDE MOUNTING STAND. 5. PROVIDE BASIS OF DESIGN OR APPROVED EQUAL.

	PACKAGED BOILER FEEDWATER SYSTEM (DEAERATOR, SURGE TANK AND PUMPS)																							
ITEM		DIMENSIONS				DEAERATOR			SURGE / STORAGE     MAKEUP WATER     PUMPS											BASIS OF DESIGN				
NO.	STEAM PRESSURE	L × W × H	CAPACITY LBS/HR	GALLONS	DESIGN PRESSURE	OPERATING PRESSURE	CAPACITY	DEAERATION	TYPE	GALLONS	DESIGN PRESSURE	CAPACITY	TYPE	GPM	PRESSURE	SERVICE	QUANTITY	TYPE	HP	GPM EACH	MAIN VOLTAGE	MANUFACTURER	MODEL	REMARKS
DA-1	5 PSIG	160"x49"x146"	14,000	430	50 PSIG	5 PSIG	15 MINUTES	.005 CC/LITER	SPRAY	360	0 PSIG	12.5 MINUTES	ATMOSPHERIC	27.6	50 PSIG	BOILER FEED	3	CENTRIFUGAL	5	26	480/3/60	SUPERIOR	SSD014P155-125	1,2,3,4,5,6,7,8
																TRANSFER	2	CENTRIFUGAL	3	55				

4

NOTES:

1. MANUFACTURER TO INCLUDE DA STEAM INLET PRV, ALL ACCESSORY TRIM, INSULATED TANK, STAND, PRE-PIPED PUMPS AND

CONTROLS IN NEMA 12 ENCLOSURE AS REQUIRED FOR A PACKAGED SYSTEM. 2. MANUFACTURER TO INCLUDE SINGLE POINT PIPING AND ELECTRICAL CONNECTIONS. WITH DISCONNECT SWITCH, NON-FUSED. 3. MANUFACTURER TO INCLUDE STAINLESS STEEL SURGE TANK.

4. MANUFACTURER TO INCLUDE SCC MAKEUP AND TRANSFER VALVE ACCESSORIES AND CONTROL PANEL WITH TOUCHSCREEN.

MANUFACTURER TO INCLUDE VFD'S FOR ALL PUMPS.
 PROVIDE FACTORY START-UP AND TRAINING.

7. PROVIDE BASIS OF DESIGN OR APPROVED EQUAL. 8. FEEDWATER TANK ASSEMBLY LIKELY SHIPS IN 2 PARTS, ASSEMBLE IN FIELD.

	SYNTHETIC NATURAL GAS (SNG) SYSTEM SCHEDULE															
ITEM	VAPORIZER CAPACITY	WATER CAPACITY		DESIGN PRESS.		LIQUID INLET	BURNER TYPE/CAPACITY	VAPOR/AIR MIXER	NUMBER OF VENTURIS	SURGE TANK	MIXGAS OUTLET	ELECTRICAL	BASIS OF	DESIGN	NOTES	
NO.			(VAPOR TUBE)	(VAPOR TUBE)	(VAPOR TUBE)	CONNECTION		CÁPACITY		CAPACITY	CONNECTION	REQUIREMENTS	MANUFACTURER	MODEL		
SNG-1	258 GAL/H LPG @ 0°F	165 GAL	650 <b>°</b> F	250 PSIG	375 PSIG	1 ^{°°} 300 <b>#</b> RAISED FACE FLANGE	FORCED DRAFT POWER BURNER WITH ELECTRIC BLOWER / 310,000 BTU/H		2 x 10 MMBTU/H	120 GALLON (HORIZONTAL)	3" 150# RAISED FACE FLANGE	208/1/60 25A	ALTERNATE ENERGY SYSTEMS	WB-258/HVS-20MM	1,2,3,4,5,6,7,8,9,10	

NOTES:

VAPORIZING TUBE CONSTRUCTION SHALL CONFORM TO ASME BOILER & PRESSURE VESSEL CODE, SECTION VIII, DIVISION I. AND CONFORM TO LATEST EDITION OF NFPA #58.
 STANDARD SAFETY FEATURES SHALL INCLUDE IGNITION FAILURE SAFETY SHUT DOWN, LOW WATER LEVEL CUTOFF, HIGH WATER BATH TEMPERATURE CUTOFF, "SMART" LIQUID CARRYOVER PROTECTION, PRESSURE RELIEF VALVE PROTECTION (VAPOR TUBE), PRESSURE RELIEF VALVE PROTECTION (BURNER TRAIN), LOW BURNER GAS PRESSURE, HIGH BURNER GAS PRESSURE, LOW VAPOR PRESSURE, HIGH VAPOR PRESSURE, LOW MIXED GAS PRESSURE, HIGH MIXED GAS PRESSURE AND PRESSURE RELIEF VALVE PROTECTION (SURGE TANK).

3. CONTROL PANEL SHALL BE PROGRAMMABLE LOGIC CONTROLLER (PLC) WITH COLOR LCD DISPLAY WITH TOUCHSCREEN OPERATOR INTERFACE. 4. PROVIDE CONTROL POWER TRANSFORMER FOR CONTROL PANEL.

5. PROVIDE UNINTERRUPTED POWER SUPPLY (UPS) FOR SNG CONTROL PANEL ON SNG SKID. 6. PROVIDE INITIAL CHARGE OF HEAT TRANSFER SOLUTION.

PROVIDE CONTROL ROOM HEATER WITH THERMOSTAT.
 PROVIDE GAS LEAK MONITOR IN CONTROL ROOM WITH WARNING ALARM AND SHUT-DOWN RELAYS.

9. INCLUDE START-UP AND TRAINING FOR SNG SYSTEM. 10. PROVIDE BASIS OF DESIGN OR APPROVED EQUAL.

 LPG LIQUID
 TRANSFER
 PUMP
 SKID
 PACKAGE
 SCHEDULE

 ITEM
 SKID
 SKID
 PUMP
 PUMP
 PUMP
 PUMP
 PUMP
 PUMP
 PUMP
 INUFACTURER
 MODEL
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 ITED
 2
 3450
 RPM
 208/1/60
 DIRECT
 DRIVE
 CORKEN
 C12
 AEP-05
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PROVIDE POWER SUPPLY AND CONTACTOR FROM SNG SKID CONTROL ROOM.
 PROVIDE AUTOMATIC START/STOP BASED ON PRESSURE IN SNG STORAGE TANK.

3. PROVIDE SAME BRAND LIQUID TRANSFER PUMP SKID AS SNG SYSTEM.

4. PROVIDE BASIS OF DESIGN OR APPROVED EQUAL.

		DDC SYSTEM	M POIN	T LIST	
Item	Sensor	Description	Туре	Notes	Location
MCP	Master Control Panel	Alarm	DI		Boiler Room
МСР	Master Control Panel	BACnet/IP	-		Boiler Room
МСР	Master Control Panel	Enable/Disable	-		Boiler Room
PT ST-H	Pressure Transmitter	Steam Pressure	AI	Steam Header	Boiler Room
TT-1	Temperature Transmitter	Feedwater Temperature	AI	Feedwater Main	Boiler Room
PT-1	Pressure Transmitter	Steam Pressure	AI	Total	Boiler Room
FT-1	Flow Transmitter	Steam Flow	AI	Total	Boiler Room
SM-1	Steam Meter	Steam Flow	-	Total	Boiler Room
PT-2	Pressure Transmitter	Steam Pressure	AI	for Laundry	Laundry
SM-2	Steam Meter	Steam Flow	-	for Laundry	Laundry
FT-2	Flow Transmitter	Steam Flow	AI	for Laundry	Laundry
-	Control Panel	BACnet	-	Blowdown/Chem Feed	Boiler Room
WM-1	Water Flow	Water Meter	AI	Meter supplied w/ water treat pkg	Boiler Room
VS-1	Control Panel	BACnet	-	Propane Vaporizer Skid	Outdoors
COS	Carbon Monoxide Sensor	Alarm	DI	Mount low on wall	Boiler Room
	Damper Actuator	Open/Close	DO	Combustion Air - 2 actuators	Boiler Room
	Damper Actuator	Open/Close	DO	Combustion Air - 2 actuators	Boiler Room
OAT	Temperature Sensor	Outside Air	AI	Northwest Wall	Outdoors
TS-1	Thermostat	Space Temperature	AI	Heating/Cooling, Adjustable	Boiler Room, North
TS-2	Thermostat	Space Temperature	AI	Heating/Cooling, Adjustable	Boiler Room, South
TS-3	Thermostat	Space Temperature	AI	Heating/Cooling, Adjustable	Dry Storage, North
TS-4	Thermostat	Space Temperature	AI	Heating/Cooling, Adjustable	Dry Storage, South
TS-5	Thermostat	Space Temperature	AI	Heating/Cooling, Adjustable	Storage, East
TS-6	Thermostat	Space Temperature	AI	Heating/Cooling, Adjustable	Storage, West
EF-1a	Exhaust Fan	Start/Stop	DO	Starter by EC	Roof
EF-1a	Damper Actuator	Open/Close	DO	Intake Air - 2 actuators	Boiler Room
EF-1a	Exhaust Fan	Curret Switch	DI		Boiler Room
EF-1b	Exhaust Fan	Start/Stop	DO	Starter by EC	Roof
EF-1b	Damper Actuator	Open/Close	DO	Intake Air - 2 actuators	Boiler Room
EF-1b	Exhaust Fan	Curret Switch	DI		Boiler Room
EF-2	Exhaust Fan	Start/Stop	DO	Starter by EC	Dry Storage
EF-2	Damper Actuator	Open/Close	DO	Intake Air - 2 actuators	Dry Storage
EF-3	Exhaust Fan	Start/Stop	DO	Starter by EC	Storage
	Damper Actuator	Open/Close		· · · · · ·	Storage
EF-3		Start/Stop	DO	Intake Air - 2 actuators	
UH-1a	Unit Heater Fan	Open/Close	AI		Boiler Room
UH-1a	Steam Control Valve		AO	Unit Heater	Boiler Room
UH-1b	Unit Heater Fan	Start/Stop	AI		Boiler Room
UH-1b	Steam Control Valve	Open/Close	AO	Unit Heater	Boiler Room
UH-2a	Unit Heater Fan	Start/Stop	AI		Storage
UH-2a	Steam Control Valve	Open/Close	AO	Unit Heater	Storage
UH-2b	Unit Heater Fan	Start/Stop	AI		Storage
UH-2b	Steam Control Valve	Open/Close	AO	Unit Heater	Storage
UH-2c	Unit Heater Fan	Start/Stop	AI		Dry Storage
UH-2c	Steam Control Valve	Open/Close	AO	Unit Heater	Dry Storage
UH-2d	Unit Heater Fan	Start/Stop	AI		Dry Storage
UH-2d	Steam Control Valve	Open/Close	AO	Unit Heater	Dry Storage

	BASIS OF DESIGN	1	NOTES
EL	MANUFACTURER	MODEL	NOTES
05C	ALTERNATE ENERGY SYSTEMS	AEP-05C	1,2,3,4

		CVMDOI	
MECHANICAL	/ <b>NVAC</b>	SINDUL	LEGE

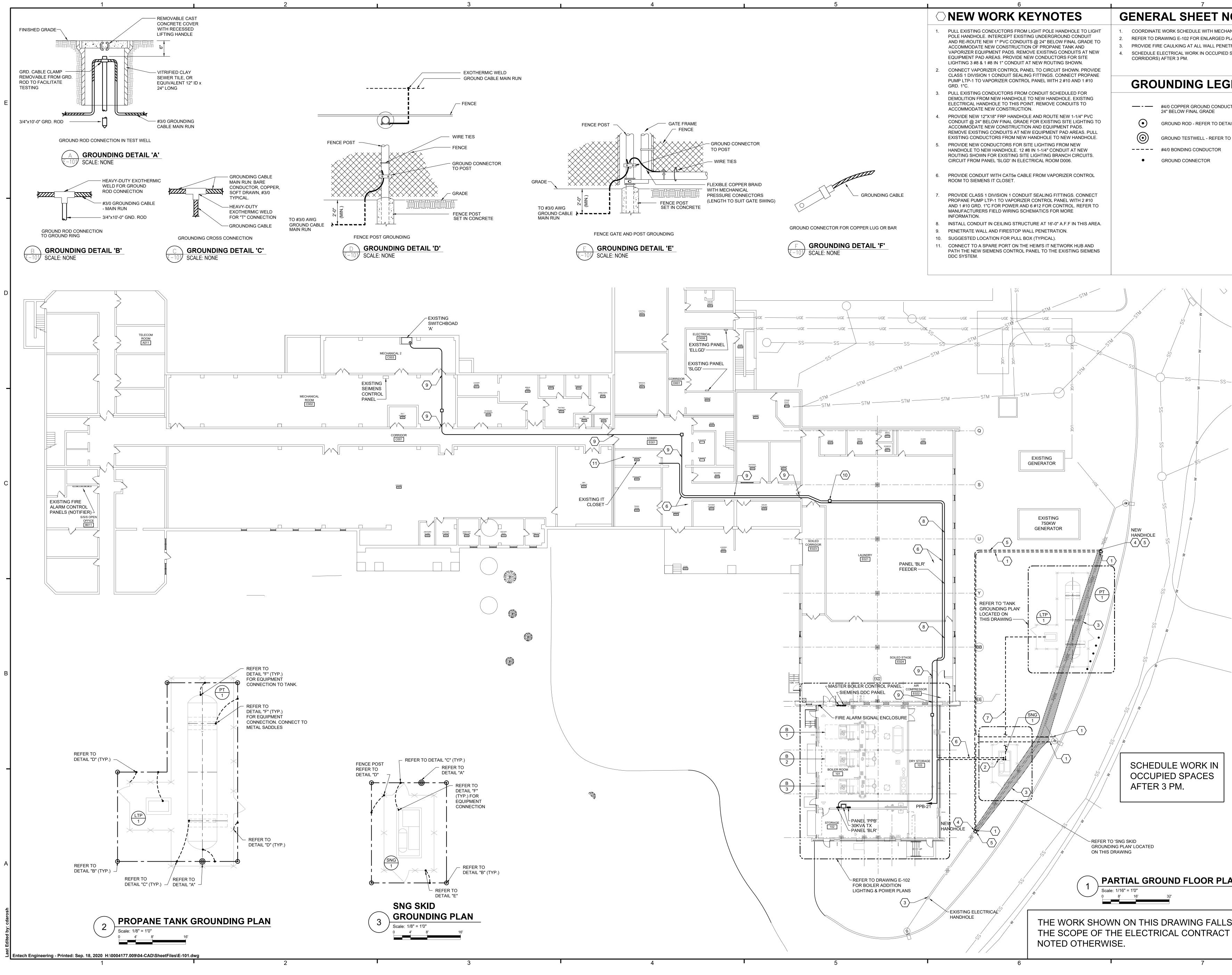
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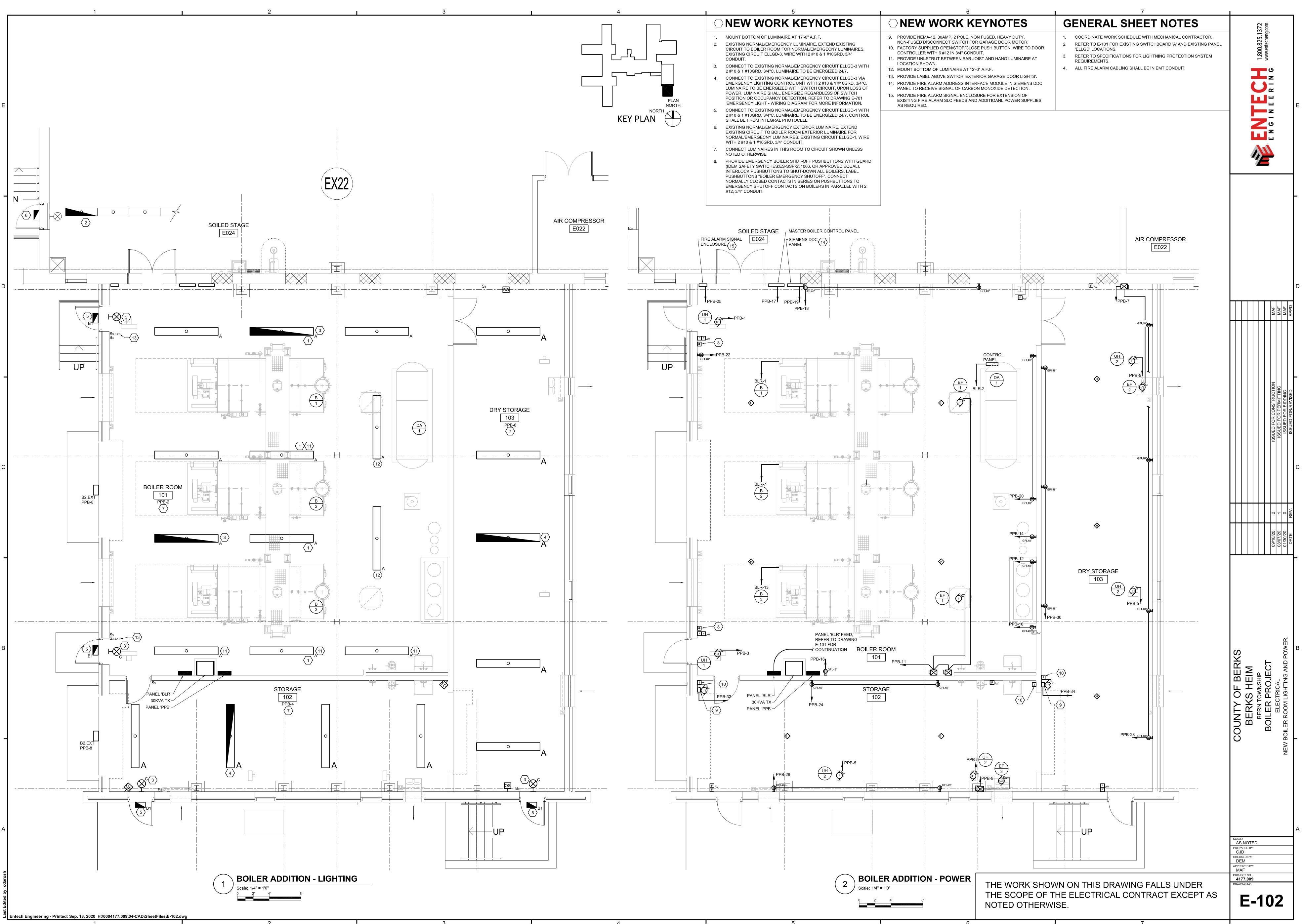
	ITEM TO DEMOLISH		MOTOR OPERATED
	VALVE		CENTRIFUGAL PUMF
	BALL VALVE	——HPS——	HIGH PRESSURE S
	BUTTERFLY VALVE	——MPS——	MEDIUM PRESSURE
	THREE WAY VALVE	LPS	LOW PRESSURE ST
<u>≹</u>	ANGLE VALVE	HPC	HIGH PRESSURE CO
	GLOBE VALVE	MPC	MEDIUM PRESSURE
	PLUG VALVE	LPC	LOW PRESSURE CO
	BALANCING VALVE	MU	MAKE-UP WATER
	MOTOR OPERATED VALVE	V	VENT PIPING
	MOTOR OPERATED THREE-WAY VALVE	-	
	CHECK VALVE	G	NATURAL GAS
	PRESSURE REDUCING VALVE		LP GAS
— <del>\</del> \ <del> </del>	STRAINER	( )	EQUIPMENT DESIGN
<del>``</del> +	STRAINER W/ BLOW OFF	Ŭ.	CONNECTION TO EX
$\mathbf{Y}$		<b>↔</b>	POINT OF DISCONN
	RELIEF VALVE	_/ <b>&gt;</b>	AIR FLOW
	AIR VENT – MANUAL	G.C.	GENERAL CONTRAC
<b>^ ^v</b>	AIR VENT, AUTOMATIC	E.C.	ELECTRICAL CONTRA
P	PRESSURE GAUGE W/ GAUGE COCK	M.C.	MECHANICAL CONTR
Ū	THERMOMETER	P.C.	PLUMBING CONTRAC
{	PIPING FLEXIBLE CONNECTION		
<u>_</u>	REDUCER		
	UNION		
(T)	THERMOSTAT		
	OUTSIDE AIR SENSOR		
UA	OUTSIDE AIR SENSOR		
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Э	PIPING DOWN		
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THE WORK SHOWN ON THIS DRAWING FALLS THE SCOPE OF THE MECHANICAL CONTRACT NOTED OTHERWISE.

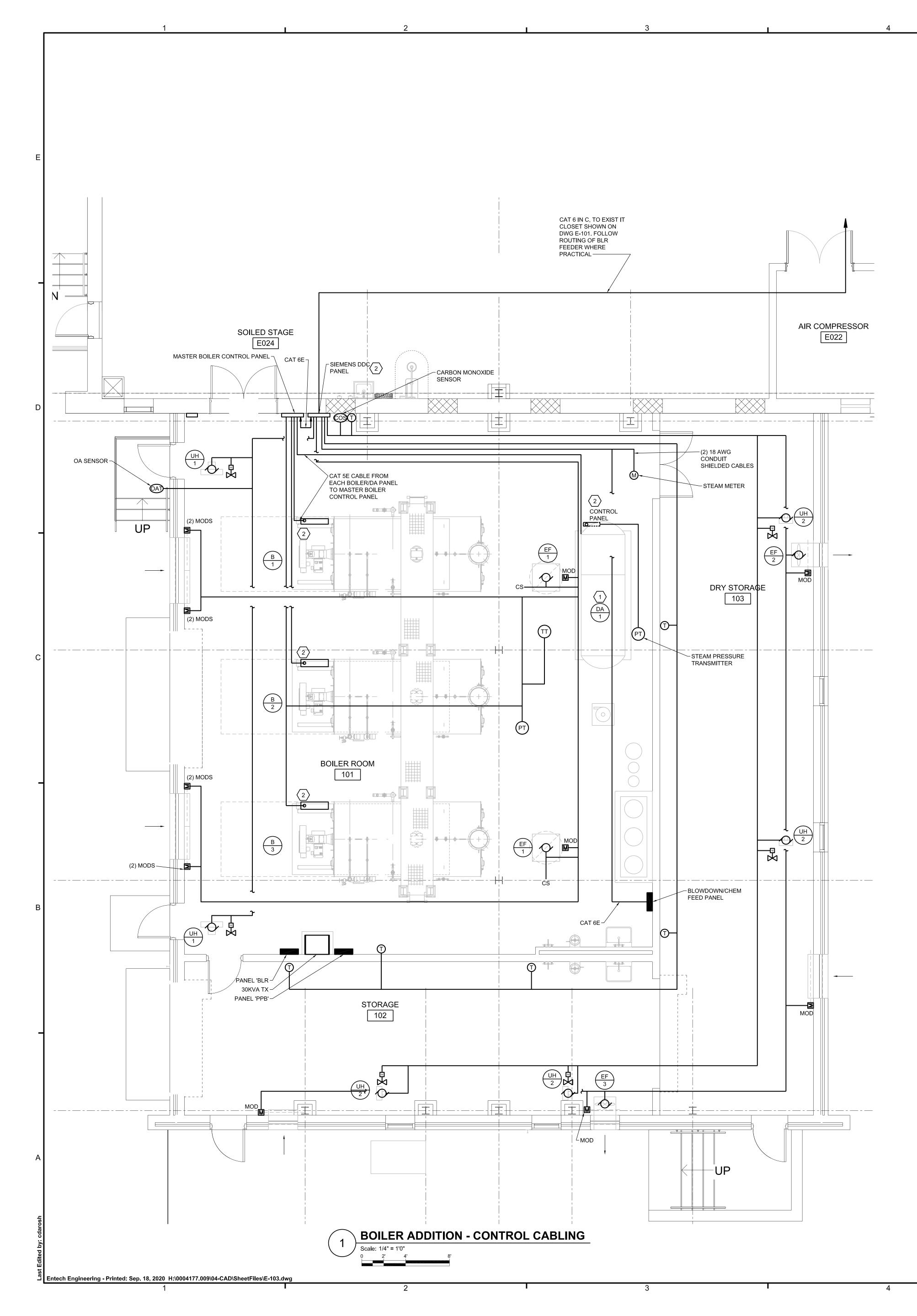
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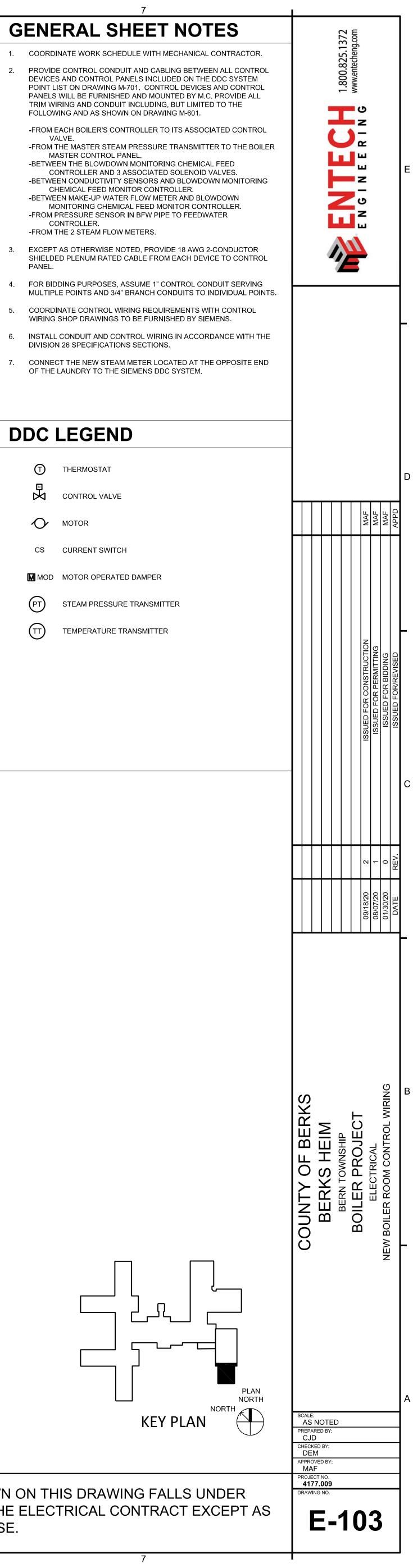
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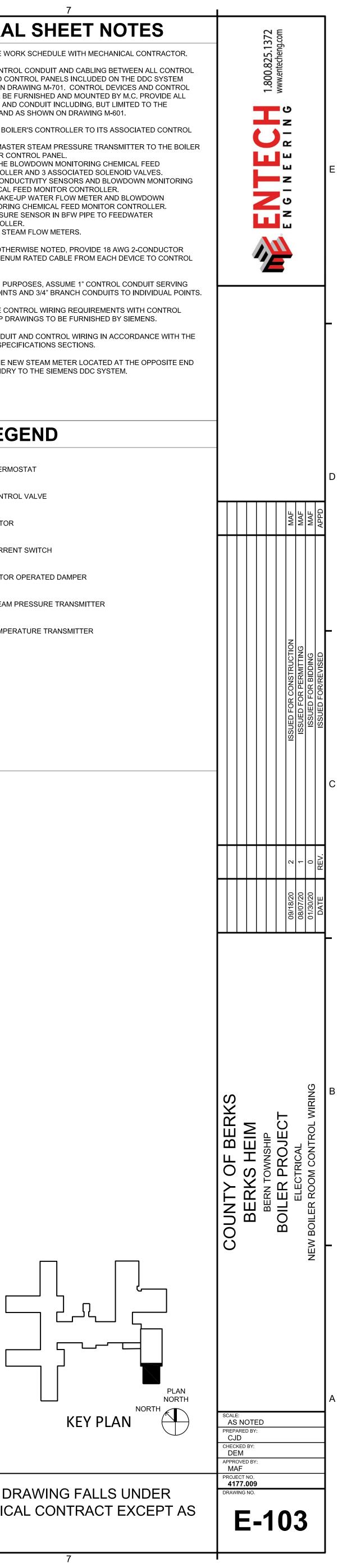






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<b>NEW WORK KEYNOTES</b>	GENE
<ol> <li>DEAERATOR ASSEMBLY WILL SHIP IN TWO PIECES. PROVIDE CONDUIT AND WIRING CONNECTIONS, FOR FIELD WIRING OF DEAERATOR ASSEMBLY AND TRIM SHIPPED LOOSE, IN ACCORDANCE WITH DEAERATOR SHOP DRAWINGS FURNISHED BY M.C. DEAERATOR AND TRIM WILL BE FURNISHED AND MOUNTED BY M.C. PROVIDE A \$2,000 ALLOWANCE IN THE ELECTRICAL CONTRACT BID PRICE FOR WIRING AND CONDUIT CONNECTIONS. ALLOWANCE SHALL COVER BOTH MATERIALS AND LABOR.</li> <li>PROVIDE 3/4" CONDUIT WITH CAT 5E CABLING FROM CONTROL PANEL TO MASTER BOILER CONTROL PANEL.</li> </ol>	1. COORDIN 2. PROVIDE DEVICES POINT LIS PANELS TRIM WIF FOLLOW -FROM E VA -FROM T MA -BETWEE CO



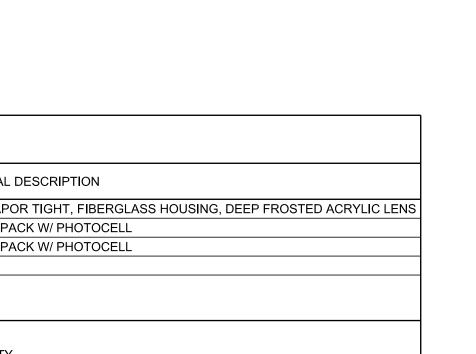


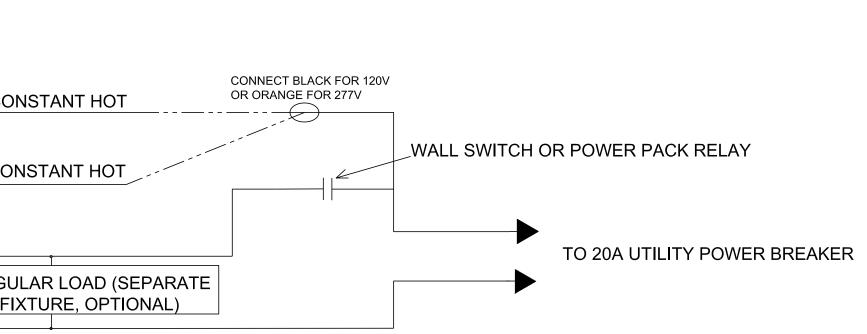
THE WORK SHOWN ON THIS DRAWING FALLS UNDER THE SCOPE OF THE ELECTRICAL CONTRACT EXCEPT AS NOTED OTHERWISE.

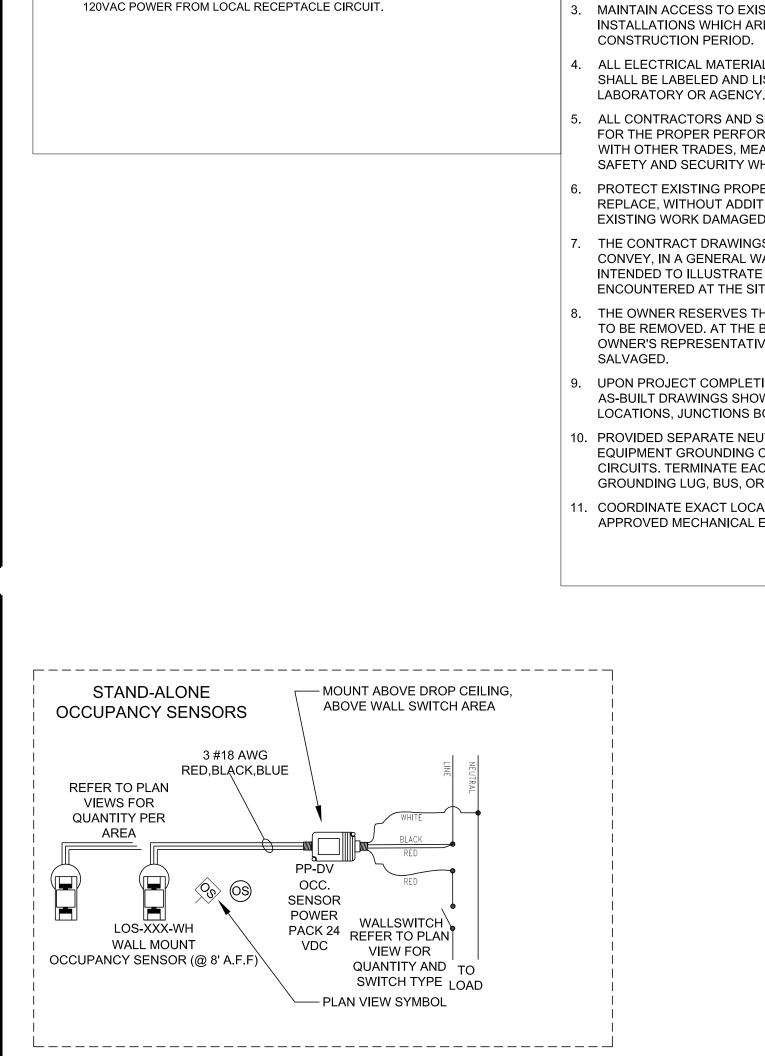
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			FEE	DER									_ D					FEE	DER	
	CKT #	LOAD DESCRIPTION	QTY	SIZE	GRD	COND.	AMPS	POLE	А	в С	A	А В	С	POLE	AMPS	COND.	GRD	SIZE	QTY	LOA
	1	BOILER #1 (B-1)	3	10	10	3/4	30	3	4100	4100	99			3	50	3/4	6	6	3	DEAERATOR
									<u>_</u>		0		_							
		BOILER #2 (B-2)	3	10	10	3/4	30	3	4100	4100	0			3	15					SPARE
											0		0							
		BOILER #3 (B-3)	3	10	10	3/4	30	3	4100	4100	0			3	15					SPARE
											0		0							
		30 KVA XFMR FOR PNL 'PPB'	3	6	10	3/4	50	3	10000	10000										SPACE
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					Т	OTAL KILO	OWATTS	PER PHASE	22300	22300 223	00 99	72 9972	9972							
													3Ø, 4V	/				RM G4		NOTES: TOP F BREAKERS, M
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V         LUNCLEMPTON         TEXTURE         VALUE         WATTE BERP MARKE         FEED PLAKE																				
IV       LUBBERGENT ID       CUTCH C       MATTE REPRESE       MA																				
C         Col: 000000000000000000000000000000000000								PAN	EL	SCH	ED	ULE	E 'P	PB'						
All THTRE EXPRICE 130-01 (JOSTR)         Clore 10         Clore 10 <thclore 10<="" th="">         Clore 10         <t< td=""><td>#</td><td>LOAD DESCRIPTION</td><td></td><td>1</td><td>GRD</td><td>СОИЛ</td><td>AMPS</td><td>POLE</td><td></td><td></td><td></td><td></td><td>1</td><td>POLF</td><td>AMPS</td><td>СОИП</td><td>GRD</td><td></td><td></td><td>LOAI</td></t<></thclore>	#	LOAD DESCRIPTION		1	GRD	СОИЛ	AMPS	POLE					1	POLF	AMPS	СОИП	GRD			LOAI
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Image: Second	_	EXHAUST FAN,STRGE RM 102 (EF-3)	2	12	12	3/4"	20	1	.200						20	3/4"	12	12	2	REC BOILER F
Image: Section 1         Image: Section 2         Image: Section 2<		EXHAUST FANS,BOILER RM 101 (EF-1)	3	12	12	3/4"	20	3	1152	115		00	100	1						REC BOILER F
Decomposition       2       1       10       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20 <th20< th="">       20       20</th20<>									. 132	/				-		3/4"		12	2	REC PANELBO
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Inter A version         Provide         2         0         2         0         1         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7 <th7< th="">         7         7         7</th7<>								· ·							20	3/4"	12	12	2	REC WEST W
Nove         Oracle         Oracle <td></td> <td>FIRE ALARM SIGNAL ENCLOSURE</td> <td>2</td> <td>12</td> <td>12</td> <td>3/4"</td> <td>20</td> <td>1</td> <td>200</td> <td>220</td> <td></td> <td>60</td> <td>360</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>REC NORTH V REC SOUTH V</td>		FIRE ALARM SIGNAL ENCLOSURE	2	12	12	3/4"	20	1	200	220		60	360	1						REC NORTH V REC SOUTH V
Markets         Display         Display <t< td=""><td></td><td></td><td>-</td><td>12</td><td>12</td><td>0/-</td><td></td><td></td><td>200</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>REC EAST WA</td></t<>			-	12	12	0/-			200											REC EAST WA
Market         All         All<											86	34	540							REC WEST W
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LUMINAIRE SCHEDULE         MANUFACTURER       CATALOS NUMBER       LUMENS       WATTS       MTG.       VOIT       RMX       GENERAL DESCRIPTION         LITRIDA OR APPROVED SOLAL       FEB.39580001 MMIND WOR MAKULT HE DRAD       1329       1329       177       1.2       8* LEBENG MAIN PROVENT FOLDAL		REMARKS									⊨xIST	VVHILE W	URKING	UN THIS	ENERGI	ZED EQU	IMENT	UN SUF	KFACE (	JF PANEL.
LUTHONIA OR APPROVED EQUAL WOGE2 LED PF: 30K 400 CRLVF-MVQLT-PE-DBXD 5.772 48 W.S 277 5 EXTERIOR WALL PACK W/ PHOTOCELL LITHONIA OR APPROVED EQUAL LON-S-W/R-120277 - 2 W.S 277 3 LED EXIT SIGN INTING LEGEND CELING R = RECESSED SUFFACE 1 = JWCTION BOX WALL P = PENDANT NOTE ALL LUMINARES SHALL HAVE A MINIMUM OF S YEAR WARRANTY. P = PENDANT NOTE ALL LUMINARES SHALL HAVE A MINIMUM OF S YEAR WARRANTY. WALL P = PENDANT NOTE ALL LUMINARES SHALL HAVE A MINIMUM OF S YEAR WARRANTY. WALL P = PENDANT NOTE ALL LUMINARES SHALL HAVE A MINIMUM OF S YEAR WARRANTY. WALL P = PENDANT NOTE ALL LUMINARES SHALL HAVE A MINIMUM OF S YEAR WARRANTY. WALL P = PENDANT NOTE LUXS-EPC-1 #1 BLACK - 120 V UTILITY POWER CONSTANT HOT #6 YELLOW - EMERGENCY HOT #6 YELLOW - EMERGENCY LOAD WER BREAKER EMERGENCY LOAD ADD THE CAST NOTE CONSTANT HOT WER BREAKER EMERGENCY LOAD WER BREAKER EMERGENCY LOAD WER BREAKER EMERGENCY LOAD WER BREAKER EMERGENCY LOAD ADD THE AUGUST TO ADD THE AUGUST AND A THE AUGUST AND A THOR AND A THORAL PREASED AND A THE AUGUST AND A THORAL PREASED AND A THORAL PREASED A THORAL PREASED A THORAL PREASED AND A THORAL PREASED AND A THORAL PREASED	PE	LITHONIA OR APPROVED EQUAL		EM-L96-9	9000LN	1-IMAFD-V	VD-MVOI	LT-40K-80CRI	-STSL	LUMENS 9,302	WATT 65	TS MTG. P	VOLT 277	1,2		INEAR VA	APOR TI	GHT, F <b>I</b> B	ERGLA	SS HOUSING, [
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LING R = RECESSED HALL LUMINARE AT IS-07 ABOVE FINISH FLOOR; UNLESS NOTED OTHERWISE, PROVIDE BEAM CLAMPS AT JOISTS WITH CHAIN OR AC TO LUMINAIRES; UNLESS NOTED OTHERWISE, COORDINARE TO UN-SWITCHED SOURCE OF EXISTING EXTERIOR NORMALE/MERGECNY CIRCUIT. CONNECT LUMINARE TO UN-SWITCHED SOURCE OF EXISTING EXTERIOR NORMALE/MERGECNY CIRCUIT. CONNECT LUMINARE TO UN-SWITCHED SOURCE OF EXISTING EXTERIOR NORMALE/MERGECNY CIRCUIT. CONNECT LUMINARE TO UN-SWITCHED SOURCE OF EXISTING EXTERIOR NORMALE/MERGECNY CIRCUIT. CONNECT LUMINARE TO UN-SWITCHED SOURCE OF EXISTING EXTERIOR NORMALE/MERGECNY CIRCUIT. CONNECT LUMINARE TO UN-SWITCHED SOURCE OF EXISTING EXTERIOR NORMALE/MERGECNY CIRCUIT. CONNECT LUMINARE TO UN-SWITCHED SOURCE OF EXISTING EXTERIOR NORMALE/MERGECNY CIRCUIT. CONNECT LUMINARE TO UN-SWITCHED SOURCE OF EXISTING EXTERIOR NORMALE/MERGECNY CIRCUIT. CONNECT LUMINARE CENTERED ABOVE GARAGE DOOR AT 14-97 ABOVE FINISH FLOOR. LVS-EPC-1 #5 BLUE - 120/277V EMERGENCY HOT #6 YELLOW - EMERGENCY LOAD FEMERGENCY CONNECT LUMINARE EXTERIOR NORMALE/MERGECNY FOWER CONNECT LUMINARE CENTERED ABOVE CONSTANT HOT H6 YELLOW - EMERGENCY LOAD CONNECT LUMINARE EXTERIOR NORMALE/MERGENCY POWER CONSTANT HOT H6 YELLOW - EMERGENCY LOAD CONSTANT HOT CONSTANT		LITHONIA OR APPROVED EQUAL		QM-S-W-	R-120/	277				-	2	W,S	277	3	LED EXI	T SIGN				
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L P = PENDANT S S MOUNT BOTTOM OF LUMINARE AT 15-0° ABOVE FINISH FLOOR; UNLESS NOTED OTHERWISE. PROVIDE BEAM CLAMPS AT JOISTS WITH CHAIN OR AC TO LUMINAIRES; UNLESS NOTED OTHERWISE, OCORDWARE FOR UNSWITCHED SOURCE OF EXISTING EXTERIOR NORAAL/EMERGECNY CIRCUIT. MOUNT LUMINARE TO LUMINARE TO LUMINARE TO LUMINAIRES AT JOISTS WITH CHAIN OR AC TO LUMINAIRES; UNLESS NOTED OTHERWISE, OCONPECT LUMINARE TO LUMINAIRE SOURCE OF EXISTING EXTERIOR NORAAL/EMERGECNY CIRCUIT. MOUNT LUMINARE CENTERED ABOVE GARAGE DOOR AT 14-0° ABOVE FINISH FLOOR. LVS-EPC-1  #5 BLUE - 120/277V EMERGENCY HOT #5 BLUE - 120/277V EMERGENCY HOT #6 YELLOW - EMERGENCY LOAD ULUMINAIRE CENTERED ABOVE CONSTANT HOT #6 YELLOW - EMERGENCY LOAD ULUMINAIRE CENTERED ABOVE CONSTANT HOT #6 YELLOW - EMERGENCY LOAD WITH LUMINAIRE CENTERED ABOVE CONSTANT HOT #6 YELLOW - EMERGENCY LOAD WITH LUMINAIRE CENTERED ABOVE CONSTANT HOT #6 YELLOW - EMERGENCY LOAD WITH LUMINAIRE CENTERED ABOVE CONSTANT HOT #6 YELLOW - EMERGENCY LOAD WITH LUMINAIRE CENTERED ABOVE CONSTANT HOT #6 YELLOW - EMERGENCY LOAD WITH LUMINAIRE CENTERED ABOVE CONSTANT HOT #6 YELLOW - EMERGENCY LOAD WITH LUMINAIRE CENTERED ABOVE CONSTANT HOT #6 YELLOW - EMERGENCY LOAD WITH LUMINAIRE CENTERED ABOVE CONSTANT HOT #6 YELLOW - EMERGENCY LOAD WITH LUMINAIRE CENTERED ABOVE CONSTANT HOT #6 YELLOW - EMERGENCY LOAD WITH LUMINAIRE CENTERED ABOVE CONSTANT HOT #6 YELLOW - EMERGENCY LOAD WITH LUMINAIRE CENTERED ABOVE CONSTANT HOT #6 YELLOW - EMERGENCY LOAD WITH LUMINAIRE CENTERED ABOVE CONSTANT HOT #6 YELLOW - EMERGENCY LOAD WITH LUMINAIRE CENTERED ABOVE CONSTANT HOT #10 LITY POWER #10 LITY #10 L	I	NG R = RECESSED									RES S	HALL HAV	/E A MIN	IMUM OF	5 YEAR	WARRAN	TY.			
MOUNT BOTTOM OF LUMINARE AT 15-0° ABOVE FINISH FLOOR: UNLESS NOTED OTHERWISE. PROVIDE BEAM CLAMPS AT JOISTS WITH CHAIN OR AG TO LUMINAIRES; UNLESS NOTED OTHERWISE. COORDENT LUMINAIRE TO UNSWITCHED SOURCE OF EXISTING EXTENSION RORMALEMERGECNY CIRCUIT. MOUNT LUMINAIRE CENTERED ABOVE DOOR AT 3-0° ABOVE FINISH FLOOR. LVS-EPC-1 #5 BLUE - 120/277V EMERGENCY HOT #6 YELLOW - EMERGENCY LOAD EMERGENCY R BREAKER EMERGENCY LOAD MERGENCY LOAD MERGENCY LOAD MERGENCY LOAD MERGENCY LOAD MERGENCY LOAD MERGENCY R BREAKER EMERGENCY LOAD MERGENCY LOAD MERGE		_ P = PENDANT																		
#6 YELLOW - EMERGENCY LOAD       EMERGENCY         #6 YELLOW - EMERGENCY LOAD       0         #2 ORANGE - 277V UTILITY POWER CONSTANT HOT         A EMERGENCY         FER BREAKER         EMERGENCY LOAD         O         UTILITY         POWER         #3 RED - SWITCH LEG SENSING         REGULAR LOAD (SEPARA         POWER         #4 WHITE - UTILITY NEUTRAL	2. 3. 4.	COORDINATE EXACT MOUNTING L CONNECT LUMINAIRE TO UN-SWIT MOUNT LUMINAIRE CENTERED AB	OCATION CHED SC OVE DOC	NS WITH DURCE C DR AT 8'-	NEW F DF EXIS 0" ABO	PIPING STING EXT VE FINISH	TERIOR I I FLOOR	NORMAL/EME	RGECN	Y CIRCUIT.										
#6 YELLOW - EMERGENCY LOAD / POWER #6 YELLOW - EMERGENCY LOAD / POWER EMERGENCY EMERGENCY LOAD / TEST O SWITCH O UTILITY POWER / #3 RED - SWITCH LEG SENSING UTILITY POWER / #4 WHITE - UTILITY NEUTRAL / FIXTURE, OPTIONAL)		#5 BLUE - 120/277∨	EMEF	RGENC	CY HO	Т				-	#1	BLACK	. <b>-</b> 120		ITY PC	OWER	CONS	TANT	НОТ	
EMERGENCY LOAD     UTILITY       POWER     #4 WHITE - UTILITY NEUTRAL			RGENC	SY LOA	\D			PO C TEST C	WER ) ) SWI	тсн							CONS	TANT	HOT	
#/ WHITE BLUE - EMERGENCY NEUTRAL EMERGENCY LIGHT - WIRING DIAGRAM eering - Printed: Sep. 18, 2020 H:\0004177.009\04-CAD\SheetFiles\E-701.dwg			MERGI	ENCY	LOAI	C		UTILI	ΤY	-									•	
EMERGENCY LIGHT - WIRING DIAGRAM							_			ŀ	<i>π-</i> + vv							•		
EMERGENCY LIGHT - WIRING DIAGRAM eering - Printed: Sep. 18, 2020 H:\0004177.009\04-CAD\SheetFiles\E-701.dwg		#7 WHITE BLUE - E	MERG	ENCY	NEU [.]	TRAL					<del></del> • •							•		
ineering - Printed: Sep. 18, 2020 H:\0004177.009\04-CAD\SheetFiles\E-701.dwg		#7 WHITE BLUE - E	MERG	ENCY	NEU'	TRAL					<del>// </del>							-		
		#7 WHITE BLUE - E	MERG	ENCY	NEU — E	TRAL	RGEN		GHT									•		

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									Г	וסי	יח								GENERAL SHEET NOTES	
				PAN		SCH									_				1. REFER TO DRAWING E-101 FOR NEW PANEL LOCATIONS.	1
Ξ	GRD C	OND.	AMPS	POLE	A	WATTS	c PER		BB	С	POLE	AMPS	COND.	GRD		DER QTY	LOAD DESCRIPTION	СКТ #		•
	10	3/4	30	3	4100		9	972			3	50	3/4	6	6	3	DEAERATOR/SURGE (DS-1)	2		2
						4100	100	9	972	9972								4		_
	10	3/4	30	3	4100			0		0012	3	15					SPARE	8	1. PROVIDE NEW 65kA, 3P.250 AMP FRAME CIRCUIT BREAKER WITH 225 AMP	l
						4100			0		-							10	TRIP IN SWITCHBOARD 'A' BLANK SPACE. LABEL BREAKER 'BOILER ROOM,	l
							100			0								12	PANEL 'BLR'. REFER TO DRAWING E-101 FOR SWITCHBOARD LOCATION AND SUGGESTED ROUTING. PROVIDE A 120VAC TO 24VDC POWER SUPPLY FOR THE	l
	10	3/4	30	3	4100			0	/ ]		3	15					SPARE	14	BREAKER CATALOG NUMBER 685826. BREAKER NUMBER JJA36250U53X. EXTEND 120VAC POWER FROM LOCAL RECEPTACLE CIRCUIT.	2
						4100			0									16		J
						4	100			0								18		l
	10	3/4	50	3	10000													20		4
						10000											SPACE	22		l
						10	000										SPACE	24		5
									<u> </u>								SPACE	26		1
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																	SPACE	30		6
																	SPACE	32		
																	SPACE	34		7
																	SPACE	36		
																	SPACE	38		
																	SPACE	40		8
																	SPACE	42		
	ТОТИ	AL KILC	OWATTS	PER PHASE	22300	22300 22	300 9	972 9	972	9972										9
	ΤΟΤΑΙ	_ AØA	MPS	116.51		VOLTA	AGE:	277/ 48	30 3	3Ø, 4W		LC	CATION:	EQUIP	RM G4		<u>NOTES:</u> TOP FEED, COPPER BUS, BO BREAKERS, MAIN LUG, EXISTING CON			
	ΤΟΤΑΙ	ЪØА	AMPS	116.51		AMPAC	ITY: 22	25A				Μ	AIN LUG:	225A			TO BE CONNECTED TO NEW BREAKE			4
	TOTAL	_ CØA	AMPS	116.51		AIC RAT	ING: 65	5,000				МС	UNTING:	SURFA	CE					1
	ΤΟΤΑΙ	_ 3ØA	MPS	116.45		-														
																		———————————————————————————————————————		1
R١	IING LABE	el "Wai	RNING P	OTENTIAL A	RC-FLAS	6H HAZARD	S EXIS	TWHILE	E WOR	rking C	ON THIS	ENERGIZ	ZED EQUI	PMENT'	' ON SUI	RFACE	DF PANEL.			
NE	d'a' in M	/IECHAI	NICAL #2	C002A																
																				1

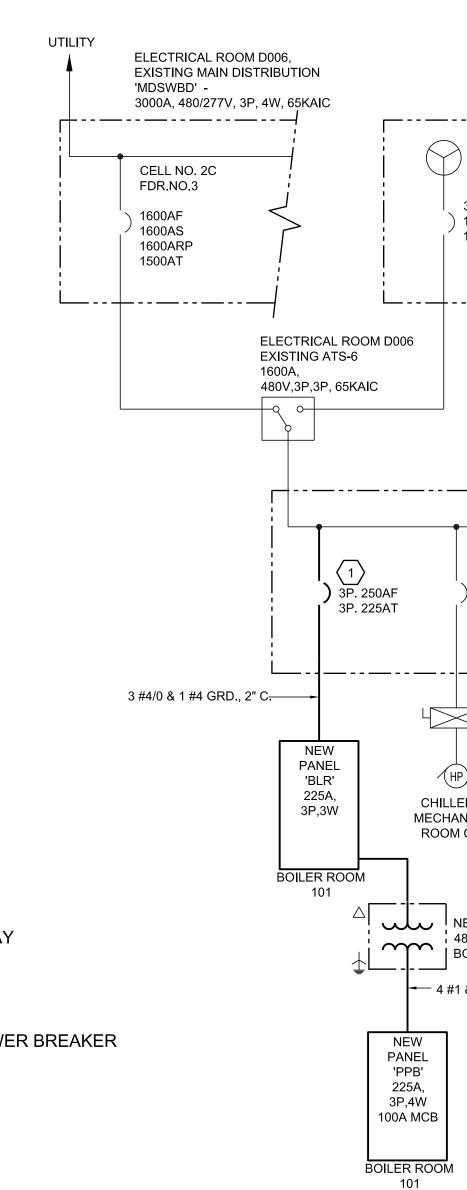
	055	FEE	DER		01/7 "
	GRD	SIZE	QTY	LOAD DESCRIPTION	CKT #
	12	12	2	LIGHTING BOILER ROOM 101	2
	12	12	2	LIGHTING STORAGE ROOM 102	4
	12	12	2	LIGHTING STORAGE ROOM 103	6
	12	12	2	LIGHTING EXTERIOR GARAGE DOORS	8
	12	12	2	REC BOILER RM 101, CHEM FEED	10
	12	12	2	REC BOILER RM 101, CHEM FEED	12
	12	12	2	REC BOILER RM 101, WATER SOFTNR	14
1	12	12	2	REC PANELBOARDS RM 101	16
	12	12	2	REC CONTROL PANELS BLR RM 101	18
	12	12	2	REC EAST WALL BOILER RM 101	20
	12	12	2	REC WEST WALL BOILER RM 101	22
	12	12	2	REC NORTH WALL STORAGE RM 102	24
	12	12	2	REC SOUTH WALL STORAGE RM 102	26
	12	12	2	REC EAST WALL STORAGE RM 103	28
	12	12	2	REC WEST WALL STORAGE RM 103	30
	12	12	2	EXTERIOR GARAGE DOOR	32
	12	12	2	INTERIOR GARAGE DOOR	34
				SPARE	36
				SPARE	38
				SPARE	40
				SPARE	42
•	EQUIP I	RM G4		<u>NOTES:</u> TOP FEED, COPPER BUS, BOLT BREAKERS, MAIN BREAKER	ON
:	100				
:	SURFA	CE			
IF	PMENT"	ON SUF	RFACE C	OF PANEL.	







TYPICAL AREA WITH WALL/CEILING MOUNTED OCCUPANCY SENSOR AND 0-10V DIMMING SWITCH



4

5	6	7
ELECTRICAL NOTES	ELECTRICAL LEGEND	FIRE ALARM SYSTE
<ol> <li>NO WORK SHALL BE PERFORMED ON ENERGIZED EQUIPMENT. DE-ENERGIZE LUMINAIRES, EQUIPMENT AND PANELBOARDS BEFORE NEW WORK IS PERFORMED. COORDINATE OUTAGES WITH OWNER 72 HOURS PRIOR TO DE-ENERGIZING.</li> <li>FABRICATE AND INSTALL ALL WORK IN STRICT ACCORDANCE WITH THE</li> </ol>	<ul> <li>EXISTING ELECTRICAL PANELBOARD</li> <li>ELECTRICAL PANELBOARD</li> </ul>	1. SECURE THE SERVICES OF CSI COMMUNICAT PROVIDE, COORDINATE, AND INSTALL DEVICE NFPA 72 CODE REQUIREMENTS, AND TO INITI SYSTEM ONCE INSTALLED. SYSTEM PROVIDE RESPONSIBLE FOR FINAL SYSTEM DESIGN & PROGRAMMING EXISTING FIRE ALARM CONTE
NATIONAL ELECTRICAL CODE (NEC 2014), THE NATIONAL ELECTRICAL SAFETY CODE (NESC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), INTERNATIONAL BUILDING CODE (IBC), AMERICANS WITH DISABILITIES ACT (ADA), NECA STANDARD OF INSTALLATION, BOCA, ALL APPLICABLE STATE AND LOCAL CODES, GENERAL CONDITIONS AND SUPPLEMENTAL TERMS OF THE CONTRACT. ALL EQUIPMENT SHALL BE UNDERWRITERS LABORATORIES (U.L.) LISTED FOR ITS APPLICATION WHERE SUCH ITEMS ARE REQUIRED.	<ul> <li>NEW DUPLEX RECEPTACLE (5-20R), PROVIDE TYPED LABEL ON EACH RECEPTACLE COVERPLATE W/PANELBOARD NAME AND CIRCUIT NUMBER. CLEAR LABEL W/ BLACK LETTER, 3/32" HIGH.</li> <li>NO DENOTE=NEW OUTLET AT 18", ##=HEIGHT ABOVE FINISH FLOOR</li> </ul>	ASSOCIATED EXISTING FIRE ALARM CONTR ASSOCIATED EXISTING ANNUNCIATOR PANEL ALARM SYSTEM DEVICES PROVIDED AS PART DEVICES SHALL BE ADDRESSABLE AND EASIL PANEL IN ACCORDANCE WITH AUTHORITY HA SOFTWARE UPGRADES SHALL BE INCLUDED PROJECT TO ACCOMMODATE THE INSTALLAT
<ol> <li>MAINTAIN ACCESS TO EXISTING ELECTRICAL EQUIPMENT AND INSTALLATIONS WHICH ARE TO REMAIN ACTIVE DURING THE CONSTRUCTION PERIOD.</li> <li>ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT</li> </ol>	GFCI=GROUND FAULT CIRCUIT INTERRUPTER. ETR=EXISTING TO REMAIN NEMA-12, NON-FUSED DISCONNECT	CONTACT INFORMATION: CSI COMMUNICATION SYSTEMS, INC 415 NORTH THIRD STREET ALLENTOWN, PA 18102 BERKS HEIM, BOILER PROJECT
<ul> <li>SHALL BE LABELED AND LISTED BY A CERTIFIED TESTING OR LABORATORY OR AGENCY.</li> <li>ALL CONTRACTORS AND SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR THE PROPER PERFORMANCE OF THEIR WORK, COORDINATION WITH OTHER TRADES, MEANS AND METHODS OF CONSTRUCTION, AND</li> </ul>	Image: NEMA-12, COMBINATION STARTER DISCONNECT         Image: Optimized state sta	<ol> <li>ALL DEVICES SHALL BE INSTALLED IN ACCOR MANUFACTURER'S RECOMMENDATIONS.</li> <li>DEVICES SHALL BE INSTALLED IN ALL AREAS</li> </ol>
<ul> <li>SAFETY AND SECURITY WHILE ON SITE.</li> <li>PROTECT EXISTING PROPERTY DURING CONSTRUCTION. REPAIR OR REPLACE, WITHOUT ADDITIONAL CHARGE TO THE OWNER, ANY EXISTING WORK DAMAGED DURING THE COURSE OF CONSTRUCTION.</li> </ul>	# PROVIDED BY OTHERS. REFER TO MECHANICAL & PLUMBING BRAWINGS FOR ADDITIONAL INFORMATION.	<ul> <li>APPROPRIATE NFPA 72 STANDARD, ALL APPL LOCAL AUTHORITY HAVING JURISDICTION.</li> <li>4. ALL FIRE ALARM PRODUCTS SHALL BE LISTED FM OR TESTING FIRM ACCEPTABLE TO AUTHO JURISDICTION AS SUITABLE FOR PURPOSE SI</li> </ul>
<ol> <li>THE CONTRACT DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY, IN A GENERAL WAY, THE SCOPE OF THE WORK. THEY ARE NOT INTENDED TO ILLUSTRATE ALL CONDITIONS WHICH MAY BE ENCOUNTERED AT THE SITE.</li> <li>THE OWNER RESERVES THE RIGHT TO SALVAGE ANY ITEMS IDENTIFIED</li> </ol>	FIRE ALARM	FOR FIRE ALARM SYSTEM APPLICATIONS FOR DEVICES SHALL BE COMPATIBLE WITH EXISTI 5. INSTALLATION PERSONNEL SHALL BE SUPER' ARE QUALIFIED AND EXPERIENCED IN THE IN AND TESTING OF FIRE ALARM SYSTEMS.
<ul> <li>TO BE REMOVED. AT THE BEGINNING OF DEMOLITION WORK THE OWNER'S REPRESENTATIVE SHALL IDENTIFY ALL ITEMS TO BE SALVAGED.</li> <li>UPON PROJECT COMPLETION PROVIDE OWNER WITH DETAILED AS-BUILT DRAWINGS SHOWING CONDUIT ROUTINGS, LUMINAIRE</li> </ul>	<ul> <li>FIRE ALARM SYSTEM HEAT DETECTOR</li> <li>FIRE ALARM SYSTEM SMOKE DETECTOR</li> <li>FIRE ALARM SYSTEM DUCT DETECTOR</li> </ul>	6. THE BASIC ELEMENTS (INITIATING DEVICES & THE FIRE ALARM SYSTEM MUST BE ELECTRIC SHALL BE INTERCONNECTED BY MEANS OF S CIRCUITS TO FORM A COMPLETE FUNCTIONA
LOCATIONS, JUNCTIONS BOXES, AND DEVICE LOCATIONS. 10. PROVIDED SEPARATE NEUTRALS AND SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR FOR ALL FEEDER AND BRANCH CIRCUITS. TERMINATE EACH GROUNDING CONDUCTOR ON A GROUNDING LUG, BUS, OR BUSHING.	F AV FIRE ALARM HORN/STROBE WALL MOUNTED DEVICE	7. DRAWINGS INDICATE INTENDED LOCATIONS O INITIATING DEVICES. CONTRACTOR SHALL RE AVOID ANY OBSTRUCTIONS IN ACCORDANCE REQUIREMENTS. COORDINATE WITH OWNER OF DEVICES.
11. COORDINATE EXACT LOCATION OF ELECTRICAL CONNECTION POINT ON APPROVED MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN.	Image: Symplectic constraints       Wall, Corner Mounted, Wired Motion Sensor, Mount at Minimum 8'-0" A.F.F.         Image: Symplectic constraints       Lutron:         Los-Wdt-Whm or Approved Equal	8. FIRE ALARM WIRING THAT PENETRATES FIRE FLOORS SHALL BE PROVIDED WITH A U.L. LIS WITH A RATING EQUAL TO THE FIRE RATING O THROUGH WHICH IT PASSES
	S IN-WALL, SINGLE POLE SWITCH S ³ IN-WALL, THREE-WAY SWITCH	<ol> <li>9. ALL FIRE ALARM SYSTEM PANELS SHALL BE F WITH SEPARATE EARTH GROUND.</li> <li>10. FIRE ALARM SYSTEM SIGNAL PANELS SHALL I THE SIGNAL PANEL SHALL BE CIRCUITED TO C CIRCUIT AS INDICATED.</li> </ol>
	LUMINAIRE CONNECTED TO NORMAL POWER, TYPE AS INDICATED ON LUMINAIRE SCHEDULE.         LUMINAIRE CONNECTED TO NORMAL/EMERGENCY POWER, TYPE AS	11. FIRE ALARM SYSTEM DEVICE MOUNTING HEIO ACCORDANCE WITH NFPA 72. REFER TO EQU MOUNTING HEIGHT SCHEDULE LOCATED ON ADDITIONAL INFORMATION.
	<ul> <li>INDICATED ON LUMINAIRE SCHEDULE.</li> <li>CEILING MOUNTED EXIT SIGN, CONNECT TO N/E POWER SHOWN</li> <li>WALL MOUNTED EXIT SIGN, CONNECT TO N/E POWER SHOWN</li> </ul>	12. SUBMITTALS FOR REVIEW SHOP DRAWINGS: THE FOLLOWING ITEMS SH REVIEW AND APPROVAL:
	ROOM NAME ROOM NAME ROOM NUMBER ROOM NUMBER CIRCUIT NUMBER, CONNECT LUMINAIRES IN ROOM TO CIRCUIT NUMBER SHOWN, UNLESS NOTED OTHERWISE.	<ul> <li>SUBMITTAL BOOKLET TO INCLUDE THE FOLLO</li> <li>a. A LIST OF ALL EQUIPMENT TO BE PROV THE SYSTEM</li> <li>b. DATA SHEETS OF ALL ITEMS TO BE PRO SPECIFIC ITEM OR MODEL NUMBER HIG</li> <li>c. REQUIRED SUPPORT DOCUMENTATION AUTHORIZED RELATIONSHIP OF THE SY COPIES OF CERTIFICATIONS AND LISTIN REQUIRED.</li> <li>d. FIRE ALARM CABLE</li> <li>e. MATRIX OF OPERATION OF THE SYSTEM</li> </ul>
_		f. STANDBY BATTERY CALCULATIONS UPON APPROVAL OF THE SUBMITTAL MATERI DRAWINGS, PREPARED IN AUTOCAD, TO INCLUI
V		<ul> <li>a. ALL CONTROL EQUIPMENT WITH INTER</li> <li>b. FIELD CONNECTIONS OF ALL CIRCUITS CONTROL EQUIPMENT.</li> <li>c. FLOOR LAYOUTS WITH FIRE ALARM SYS SHOWN.</li> <li>d. ADDRESSABLE DEVICE NUMBERS FOR</li> </ul>
		DEVICE. e. NOTIFICATION APPLIANCES CIRCUITED CANDELA SETTING FOR VISUAL UNITS FOR AUDIBLE UNITS f. TYPICAL DEVICE CONNECTIONS FOR E
J S POLE J 1600AF		IN THE SYSTEM g. BASIC RISER DIAGRAM TO INCLUDE CO ALL FIELD CIRCUITS h. INDICATE TEMPERATURE SETTINGS OF 13. SUBMITTALS FOR CLOSEOUT
		a. RECORD OF COMPLETION: THE EQUIPM COMPLETE THE RECORD OF COMPLET NFPA 72. ANY DEFICIENCIES THAT ARE RECORD OF COMPLETION SHALL BE RE
LECTRICAL ROOM D006 KISTING ATS-6 500A, 30V,3P,3P, 65KAIC		ARCHITEC/ENGINEER ON RECORD FOR THE AUTHORITY HAVING JURISDICTION THE DOCUMENT. UPON APPROVAL, THI COMPLETED RECORD OF COMPLETION REQUIRED PARTIES, SHALL BE SUBMIT CONTRACTOR TO THE ARCHITECT/ENG
MECH RM C002A, EXISTING SWITCH 2000A, 480V, 3P, 3V		OWNER. b. DRAWINGS OF THE COMPLETED SYSTE CHANGES THAT WERE MADE FROM THI OF DRAWINGS. c. COPY OF THE SYSTEM PROGRAM IN PF USB THUMB DRIVE.
1 3P. 250AF ) 3P. 600AF ) 3P. 600AF ) 3P. 250AF	) 3P. 800AF	<ul> <li>d. OPERATING AND INSTRUCTION MANUA SYSTEM.</li> <li>e. COPY OF THE TESTING AND MAINTENA THE FIRST YEAR OF SERVICE.</li> <li>f. COPY OF THE SUPERVISING STATION N COPY OF THE CERTIFICATE FOR LISTIN SYSTEM.</li> </ul>
3P. 225AT	SPACE SPACE	14. ROUTE CABLE FOR ALL DEVICE WIRING WITH CAVITIES. INSTALL IN BRIDAL RINGS AT 4' SPA CABLE SHALL LIE ON OR ATTACH TO CEILING CONDUITS OR CEILING SUSPENSION WIRES, F MEMBERS. PROVIDE CONDUIT STUBS FROM E CAVITY. PROVIDE PROTECTIVE CONDUIT BUS
NEW PANEL 'BLR' 225A, CHILLER #1 CHILLER #2 COOLING TOWER		CONDUIT. 16. WIRING SHALL BE PROVIDED AND INSTALLED MANUFACTURERS REQUIREMENTS AND OWN INSTALLATION.
3P,3W MECHANICAL MECHANICAL EXTERIOR ROOM C002 BOILER ROOM 101	MECHANICAL ROOM C002	17. IT SHALL BE THE RESPONSIBILITY OF THE AF SUPPLIER TO PROVIDE THE REQUIRED MATE DATA, INCLUDING DRAWINGS, TO THE LOCAL JURISDICTION (AHJ) FOR THEIR REVIEW AND NECESSARY. ANY FEES FOR THE SUBMISSIO
NEW 30KVA TRANSFORMER 480-208/120V, 60HZ, 3Ø, BOILER ROOM 101		PROCESS SHALL BE THE RESPONSIBILITY OF CONTRACTOR. 18. ALL WIRING IN BOILER ROOM SHALL BE INSTA
<pre>4 #1 &amp; 1 #8 GRD., 1 1/2 C. NEW PANEL 'PPB' 225A,</pre>		

PARTIAL ONE-LINE DIAGRAM Scale: NONE

1

THE WORK SHOWN ON THIS DRAWING FALLS THE SCOPE OF THE ELECTRICAL CONTRACT NOTED OTHERWISE.

	1372 ang.com
ATION SYSTEM, INC. TO CES BASED ON CURRENT FIALIZE AND START ER SHALL BE & OPERATION, FROL PANEL AND ELS TO INCLUDE NEW FIRE RT OF THIS PROJECT. ALL ILY IDENTIFIED AT EACH AVING JURISDICTION. ALL WITH THE WORK OF THIS ATION OF NEW DEVICES.	E N G I N E E R I N G WWW.entecheng.com
ED AND CLASSIFIED BY U.L., IORITY HAVING SPECIFIED AND INDICATED OR WHICH THEY ARE USED. TING FIRE ALARM SYSTEM.	
RVISED BY PERSONS WHO NSTALLATION, INSPECTION, & SIGNALING DEVICES) OF	
OF NOTIFICATION AND	
E WITH CODE R PRIOR TO RELOCATION E-RATED WALLS AND STED FIRE-STOP SEALANT	
OF THE WALL OR FLOOR PROPERLY GROUNDED	MAF MAF MAF APPD
BE PROVIDED AS NEEDED. ONE 20 AMP, 120 VOLT	
IGHTS SHALL BE IN JIPMENT/DEVICE I THIS DRAWING FOR	
SHALL BE SUBMITTED FOR OWING: WIDED AND INSTALLED IN	NISTRUCTION PERMITTING R BIDDING
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D AND NUMBERED, WITH AND OUTPUT SETTING EACH TYPE DEVICE USED ONTROL EQUIPMENT AND F THERMAL DETECTORS.	09/18/20 08/07/20 01/30/20 DATE
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	SCALE: AS NOTED PREPARED BY: CJD CHECKED BY: DEM APPROVED BY: MAF
S UNDER T EXCEPT AS	PROJECT NO. 4177.009 DRAWING NO. <b>E-701</b>