MATERIALS LEGEND CONTINUOUS WOOD BLOCKING NON-CONTINUOUS WOOD BLOCKING STEEL // // // **GYPSUM BOARD** PLYWOOD RIGID INSULATION **BATT INSULATION**

EL TULE RECREATION CENTER CITY OF EDINBURG ECONOMIC DEVELOPMENT CORPORATION



700 S. Veterans Blvd., Edinburg, TX.

GENERAL NOTES

- 1. ALL CONSTRUCTION INCLUDING MATERIAL AND WORKMANSHIP, SHALL CONFORM TO THE 2015 INTERNATIONAL BUILDING CODE.
- 2. ALL ASTM STANDARDS LISTED HERE WITHIN, SHALL BE AS REFERENCED IN THE LATEST ISSUE OF THE ANNUAL BOOK OF
- AND SITE CONDITIONS BEFORE BEGINNING WORK. THE ARCHITECT AND ENGINEER, SHALL IMMEDIATELY BE NOTIFIED IN WRITING OF
- 4. THE CONTRACTOR SHALL CAREFULLY STUDY AND COORDINATE FOR CLARIFICATION.
- 5. ALL OMISSIONS AND OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND SPECIFICATIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER. WORK SHOULD NOT PROCEED UNTIL A SOLUTION IS GIVEN BY THE ARCHITECT OR ENGINEER.
- IN CASE OF CONFLICTS BETWEEN GENERAL NOTES AND DETAILS, THE DETAILS, SHALL TAKE PRECEDENCE OVER THE GENERAL NOTES. TYPICAL DETAILS, SHALL BE USED WHENEVER APPLICABLE. REFER TO SPECIFICATIONS FOR INFORMATION NOT COVERED BY THESE NOTES
- 7. IF A SPECIFIC DETAIL IS NOT SHOWN FOR ANY PART OF WORK, THE CONSTRUCTION, SHALL BE THE SAME AS FOR SIMILAR WORK.

8. COORDINATE FOUNDATION PLANS AND MECHANICAL DRAWINGS, FOR

- ALL OPENINGS, INSERTS AND OTHER RELATED ITEMS.
- 9. DIMENSIONS ARE TO FINISH FACE OF WALLS UNLESS NOTED OTHERWISE
- 10. ADDITIONAL MISCELLANEOUS STEEL ITEMS NOT SHOWN ON STRUCTURAL DRAWINGS MAY BE REQUIRED. GENERAL CONTRACTOR AND FABRICATOR SHALL COORDINATE ALL REQUIREMENTS AND SHALL NOTIFY THE ARCHITECT IN WRITING OF ALL APPARENT INCONSISTENCIES FOR CLARIFICATION. (SUCH AS SIMPSON STRONG TIES)

ELEVATION SYMBOL

WALL TYPE SYMBOL

WINDOW SYMBOL

ROOM NAME

ROOM NUMBER

DOOR SYMBOL

SECTION/DETAIL SYMBOL

11. DO NOT DIMENSION THESE DRAWINGS. ANY DIMENSIONS, QUESTIONS, SHOULD BE DIRECTED TO THE ARCHITECT OR ENGINEER.

SYMBOLS

X/AX.X

(A)----

A

OFFIC_ E_

(100)

PROJECT TEAM

OWNER/CIVIL:

CITY OF EDINBURG 415 W. UNIVERSITY DR EDINBURG, TX. 78541

ARCHITECT:

MILNET ARCHITECTURAL SERVICES, PLLC. 608 S. 12th St. McALLEN, TX. 78501 RODOLFO MOLINA, A.I.A.

STRUCTURAL ENGINEER:

SOLORIO, INC. 108 CLEO DAWSON MISSION, TX. 78572 SIMON SOLORIO, P.E.

MEP ENGINEER:

TRINITY MEP ENGINEERING 3533 MORELAND DR. WESLACO, TX. 78596 LEO MUNOZ, P.E.

EDINBURG - CITY COUNCIL

RICHARD MOLINA **MAYOR**

JORGE SALINAS MAYOR PRO-TEM

COUNCILMEMBER **JOHNNY GARCIA** PLACE 3

COUNCILMEMBER DAVID WHITE

PLACE 4

RON GARZA CITY MANAGER

EEDC BOARD OF DIRECTORS

HIREN GOVIND	PRESIDENT
ROLAND GOMEZ	VICE-PRESIDENT
DANIEL "DAN" DIAZ	SECRETARY
AARON (RONNY) RIVERA	TREASURER
VERONICA GONZALES	DIRECTOR
SABRINA WALKER HERNANDEZ	DIRECTOR
RAUL RESENDEZ	DIRECTOR

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ARCHITECTURAL: COVER SHEET

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C-06 DETAILS (3 SHEETS) STRUCTURAL NOTES STRUCTURAL NOTES S103 STRUCTURAL NOTES S201 FOUNDATION PLAN S202 CMU PLAN S301 **ROOF FRAMING PLAN** S401 CONCRETE DETAILS FOUNDATION DETAILS S403 MBS DETAILS S404 CMU DETAILS S405 FRAMING DETAILS MBS ELEVATION

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PLUMBING - SEWER

PLUMBING - WATER PLUMBING NOTES PLUMBING SCHEDULES PLUMBING DETAILS FIRE PROTECTION SITE PLAN

SITE MAP

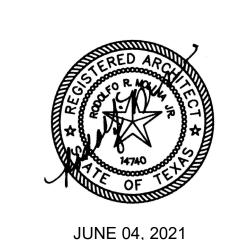


PROJECT ADDRESS: 700 S. VETERANS BLVD. EDINBURG, TX.

ARCHITECTURAL

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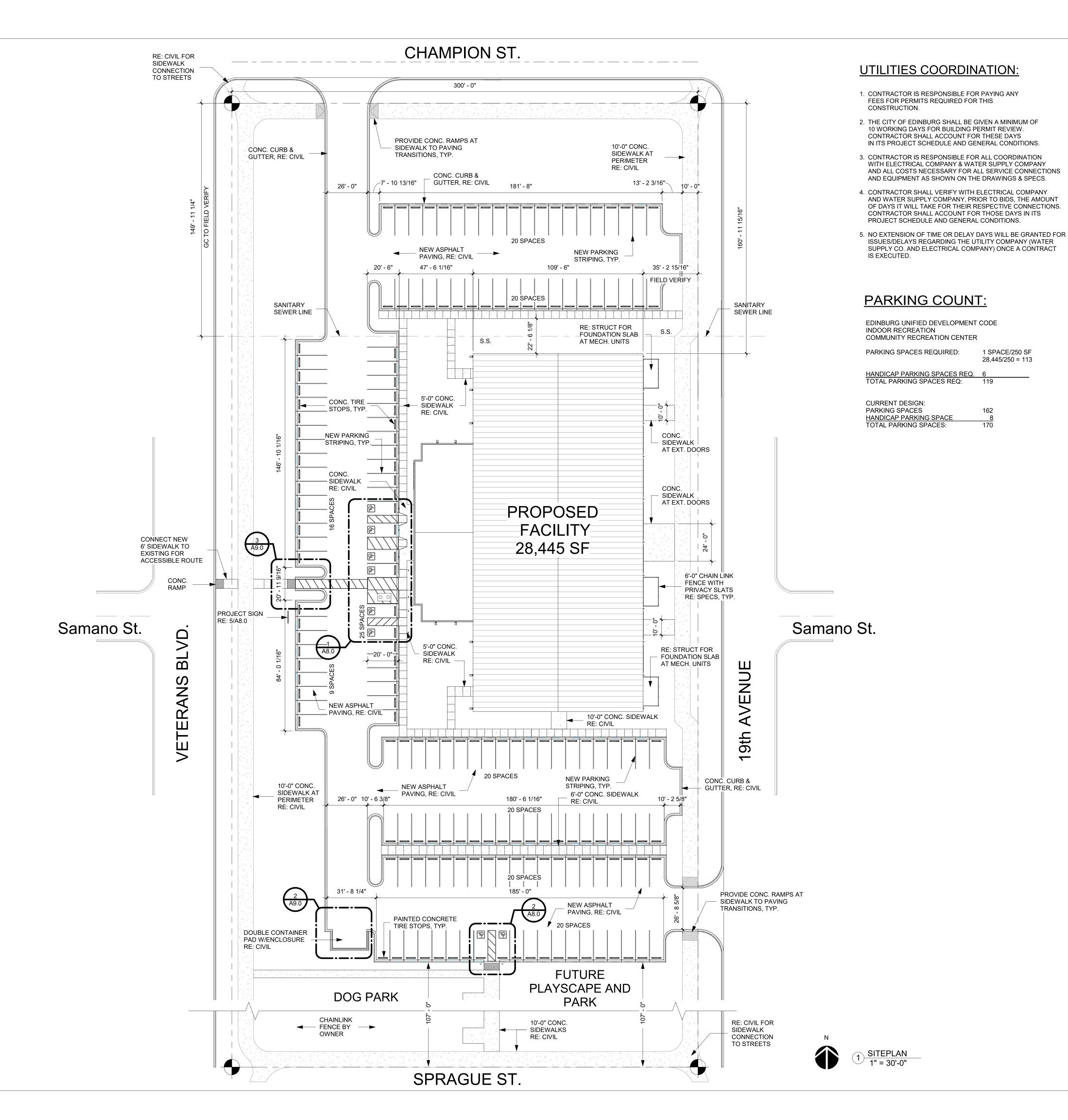


PROJECT NUMBER 219014

JUNE 04, 2021

DATE

ISSUED FOR BIDS



SITEPLAN NOTES:

- 1. PROVIDE ALL ASPHALT PAVING, SIDEWALKS, CONCRETE CURBS AND GUTTERS AS PART OF BASE BID, RE: CIVIL FOR ADDT. INFO.
- 2. CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING FOUNDATION WORK.
- 3. WARNING: CONTACT 1-800-DIG-TESS FOR UNDERGROUND ELECTRIC CABLES PLACED IN SITE.
- 4. ALL CONSTRUCTION AND MATERIAL FOR DRAINAGE, GRADING AND PAVING TO BE IN ACCORD WITH "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION".
- 5. ALL SOIL PLACED ONTO SITE IS TO BE COMPACTED TO 80% DENSITY, EXCEPT UNDER ANY PAVING COMPACTION IS TO BE 95%, RE: CIVIL FOR ADDT. INFORMATION.
- 6. CONTRACTOR IS RESPONSIBLE FOR ALL HORIZONTAL AND VERTICAL CONTROL FOR CONSTRUCTION.
- 7. ALL PIPE SLEEVES SHALL BE SCH. 40 PVC AND FURNISHED IN PLACE BY THE CONTRACTOR BEFORE PAVING.
- 8. ALL NEW PARKING SPACES TO RECEIVE NEW PAINT STRIPING AND PAINTED CONCRETE TIRE STOPS, TYP.
- 9. CONTRACTOR TO PROVIDE AN EDINBURG EDC PROJECT JOB SIGN AS SHOWN ON PLANS, RE: 5/A8.0

ADA NOTES:

- 1. ALL SIDEWALKS AND COVERED WALKWAYS SHALL HAVE 1:50 MAXIMUM CROSS SLOPE. SIDEWALKS OR COVERED WALKWAYS THAT MUST HAVE SLOPES GREATER THAN 1:20 SHALL HAVE HANDRAILS ON BOTH SIDES WITH 4" HIGH CONC. CURBS ON BOTH SIDES. HANDRAILS SHALL BE 34" TO TOP A.F.F. THERE SHALL BE NO ABRUPT CHANGE IN ELEVATION ALONG ACCESSIBLE ROUTES AT SIDEWALKS AND COVERED WALKWAYS.
- 2. CURB RAMP SLOPE SHALL BE 1:12 MAXIMUM WITH 1:10 FLARED SIDES AND SHALL BE TEXTURED. PAINT WITH A LIGHT REFLECTIVE PAINT. PARALLEL CURB RAMP SLOPE SHALL BE 1:12 MAXIMUM & TEXTURED. PAINT WITH A LIGHT REFLECTIVE PAINT. ALL CURB RAMPS SHALL HAVE A LANDING AT TOP & BOTTOM. LANDINGS SHALL HAVE A 1:50 MAXIMUM SLOPE IN ANY DIRECTION.
- 3. STRIPED ACCESS AISLES AND ACCESSIBLE PARKING SHALL HAVE A MAXIMUM CROSS SLOPE IN ALL DIRECTIONS OF 1:50.
- 4. ALL GRADING SHALL BE DONE TO DRAIN WATER AWAY FROM BUILDINGS.
- ALL EXTERIOR ALCOVES SHALL HAVE A 1:50 MAXIMUM SLOPE AND SHALL HAVE NO DROPS AT DOORS NOR AT CONNECTING SIDEWALKS.
- 6. REFER TO CIVIL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR CONTACTING ARCHITECT IN CASE OF DISCREPANCIES AND COORDINATING WITH CIVIL ENGINEER PRIOR TO PROCEEDING.
- 7. ALL EXTERIOR DOORS SHALL HAVE A LEVEL AREA IN FRONT OF THE DOOR WITH A 1:50 MAXIMUM SLOPE IN ALL DIRECTIONS. THE AREA SHALL BE A MINIMUM OF 5 FT. IN THE DIRECTION OF TRAVEL BY THE WIDTH OF THE SIDEWALK.

CONFLICTS AND DISCREPANCIES:

- 1. THE RELATION OF SPECIFICATIONS AND THE DRAWINGS SHALL BE EQUAL IN AUTHORITY AND PRIORITY. SHOULD THEY DISAGREE IN THEMSELVES, OR WITH EACH OTHER, BIDS SHALL BE BASED ON THE MOST EXPENSIVE COMBINATION OF QUALITY AND QUANTITY OF WORK INDICATED. THE APPROPRIATE WORK, IN THE EVENT OF THE ABOVE MENTIONED DISAGREEMENTS, SHALL BE DETERMINED BY THE ARCHITECT, AT NO ADDITIONAL COSTS TO THE OWNER.
- 2. ANY OMISSION AND/OR CONFLICT IN THE DRAWINGS AND/OR SPECIFICATIONS, MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITTEN FORMAT BY R.F.I. (REQUEST FOR INFORMATION) PRIOR TO OPENING OF PROPOSALS (BIDS).
- 3. FAILURE TO REPORT AN OMISSION/CONFLICT IN THE DRAWINGS AND/OR SPECIFICATIONS, PRIOR TO OPENING OF PROPOSALS (BIDS) SHALL BE DEEMED EVIDENCE THAT THE CONTRACTOR HAS ELECTED TO PROCEED IN THE MORE EXPENSIVE MANNER, AT NO ADDITIONAL COST TO THE OWNER.

INTENT OF DRAWINGS:

- THE DRAWINGS ARE DIAGRAMMATIC AND SMALL SCALE ONLY. THEY CONVEY THE INTENT OF THE WORK BUT DO NOT SHOW EVERY SINGLE CONSTRUCTION DETAIL.
- 2. CONTRACTOR IS RESPONSIBLE, AS THE CONSTRUCTION EXPERT, TO PROVIDE AND INSTALL ALL NECESSARY MATERIALS, COMPONENTS AND SYSTEMS NECESSARY FOR THE TURN KEY CONSTRUCTION OF THE PROJECT.



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JUNE 04, 2021

OOR RECREATION CENT

AT "EL TULE"

Y OF EDINBURG ECONOMIC

VELOPMENT CORPORATION

LEDINBURG, TX.

PROJECT NUMBER

219014

DATE

JUNE 04, 2021

ISSUED FOR BIDS

SHEET NUMBER

AS1.0

- 2. CONTRACTOR TO NOTIFY ALL UTILITY COMPANIES WITHIN THE CONSTRUCTION AREA 48 HOURS PRIOR TO EXCAVATION NEAR THE UTILITIES.
- 3. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION OF PROPOSED FACILITIES (NO SEPARATE PAY). ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CITY ENGINEER IN WRITING PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DAMAGE TO EXISTING FACILITIES INCURRED AS A RESULT OF THIS CONSTRUCTION OPERATION WILL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- 4. THE LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN HEREON, ARE BASED UPON AVAILABLE PLANS, UTILITY MAPS, AND VISUAL INSPECTIONS. THERE IS NO GUARANTEE THAT SAID LINES HAVE ACTUALLY BEEN CONSTRUCTED AS SHOWN. THE CONTRACTOR SHALL CONTACT ALL UTILITY LOCATORS AS NOTED ON COVER SHEET AND SHALL VERIFY BY HIS OWN FIELD EXPLORATION THE LOCATION AND DEPTH OF ALL UTILITY LINES PRIOR TO CONSTRUCTION OF PROPOSED IMPROVEMENTS. ANY CONFLICTS FOUND BY SUCH EXPLORATION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
- MAINTAIN A MINIMUM OF 6 INCHES CLEARANCE BETWEEN ALL UTILITIES, UNLESS OTHERWISE NOTED.
- 6. CONTRACTOR TO OBTAIN ALL CONSTRUCTION PERMITS NOT SUPPLIED BY OWNER AT HIS EXPENSE PRIOR TO COMMENCEMENT OF WORK.
- 7. CONTRACTOR SHALL GIVE NOTICE TO ALL AUTHORIZED INSPECTORS. SUPERINTENDENTS. OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES OR RAILROADS AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL ASSURE HIMSELF THAT ALL CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK. REQUIRED PERMITS THAT CAN ONLY BE ISSUED TO CONTRACTOR WILL BE OBTAINED AT HIS EXPENSE.
- 8. PRIOR TO CONSTRUCTION, CONTRACTOR, OWNER AND ENGINEER TO PERFORM ON-SITE FIELD INSPECTION TO DOCUMENT EXISTING CONDITIONS (NOTES & PHOTOS).
- 9. THE CONTRACTOR SHALL STORE THE MATERIALS AT THE SITE AT HIS OWN RISK. CITY SHALL NOT BE HELD LIABLE IF ANY OF THE CONTRACTOR'S EQUIPMENT OR MATERIAL IS STOLEN OR DAMAGED. THIS WILL BE CONSIDERED SUBSIDIARY TO THE VARIOUS ITEMS AND SHALL NOT BE MEASURED FOR PAYMENT.
- 10. EQUIPMENT AND MATERIALS SHALL NOT BE STORED ON PUBLIC RIGHT OF WAY DURING THE COURSE OF CONSTRUCTION WITHOUT PRIOR APPROVAL FROM CITY OF EDINBURG AGENCY.
- 11. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE AT ALL TIMES DURING CONSTRUCTION OF PROPOSED FACILITIES. NATURAL GROUND ADJACENT TO UTILITY TRENCH EXCAVATION TO BE CLEARED AND GRUBBED PRIOR TO PLACEMENT OF EXCESS TRENCH MATERIAL (NO ADDITIONAL PAYMENT - INCLUDE IN COST OF UNDERGROUND UTILITIES CONSTRUCTION.)
- 12. ALL PROPOSED PIPE STUB-OUTS ARE TO BE PLUGGED. PLUG SANITARY SEWERS WITH MANUFACTURED PLUG. 13. CONCRETE NOTES:
- ALL CONCRETE WORK TO BE FORMED. UNLESS OTHERWISE APPROVED.
- B. ALL CONCRETE TO BE 3500-PSI MINIMUM AT 28 DAYS. UNLESS OTHERWISE SHOWN. STRENGTH TO BE DETERMINED BY CYLINDER BREAK TEST.
- C. ALL REINFORCING STEEL TO BE ASTM A-615, GRADE 60, UNLESS OTHERWISE SHOWN.
- D. ALL EXPOSED CONCRETE WORK TO BE CHAMFERED. DEMOLITION. REMOVAL. AND DISPOSAL OF ALL EXCESS. CONCRETE, CURBS, RUBBLE, ETC. TO BE DONE IN A LEGAL MANNER AT CONTRACTOR'S EXPENSE.
- 14. FILL TO BE COMPACTED AS PER CITY OF EDINBURG REQUIREMENTS.
- 15. CONTRACTOR TO INSURE SAME DAY ACCESS TO ALL RESIDENCE AND BUSINESS ADJACENT TO CONSTRUCTION.
- 16. CONTRACTOR IS RESPONSIBLE FOR CLEANING MUD AND/OR DIRT TRACKED ONTO EXISTING STREETS BY HIS WORKMEN'S SUPPLIERS. OR SUBCONTRACTOR'S VEHICLES. STREETS MUST BE CLEANED WITHIN 2 HOURS OF WHEN THE TRACKING OCCURS. NO SEPARATE PAY.
- 17. RETESTING OF ALL UTILITIES AND ACCEPTANCE BY OWNER SUBSEQUENT TO THE PAVEMENT CONSTRUCTION WILL BE THE UTILITY CONTRACTOR'S RESPONSIBILITY. NO SEPARATE PAY.
- 18. CONTRACTOR IS HEREBY INFORMED THAT ALL TRENCHING AND SHORING WILL BE DONE IN STRICT ACCORDANCE WITH THE LATEST OSHA STANDARDS.
- 19. WHERE CONTRACTOR'S WORK AND/OR EQUIPMENT CAUSE AN OBSTRUCTION TO TRAFFIC, CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH PART VI OF THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (TEXAS MUTCD, MOST RECENT EDITION AS REVISED) DURING CONSTRUCTION (NO SEPARATE PAY). A WRITTEN TRAFFIC CONTROL PLAN SHALL BE SUBMITTED PRIOR TO CONSTRUCTION FOR REVIEW BY THE CITY ENGINEER & OTHER APPROPRIATE PERSONS.
- 20. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE SAFETY OF THE PEDESTRIANS AND ALL VEHICULAR TRAFFIC FROM CONSTRUCTION RELATED ACTIVITIES DURING THE COURSE OF THIS PROJECT
- 21. CONTRACTOR SHALL AT ALL TIMES ACCESS TO EXISTING DRIVEWAYS OR PROVIDE/MAINTAIN ALTERNATIVE ALL WEATHER ROUTES. REMOVED TO THE TIME THE PROPOSED FENCE IS PLACED. THIS WORK WILL NOT BE PAID FOR DIRECTLY BUT CONSIDERED SUBSIDIARY TO THE VARIOUS BID ITEMS.
- 23. LOCATION OF EXISTING UNDERGROUND UTILITIES AND SERVICE LINES (WATER, SEWER, GAS, TELEPHONE, ELECTRICAL, ETC.) ARE DETERMINED FROM AVAILABLE RECORDS AND ARE APPROXIMATE. CONTRACTOR TO LOCATE LINES AND/OR OBSTRUCTIONS AHEAD OF EXCAVATION.
- 24. CONTRACTOR TO EXPOSE ANY EXISTING FACILITY THAT MAY BE IN CONFLICT PRIOR TO START OF EXCAVATION.
- 25. NO EXCAVATION SHALL REMAIN OPEN OVERNIGHT.
- 26. ALL WORK SHALL BE PERFORMED DURING DAYLIGHT HOURS.
- 27. ANY SOIL BORINGS THE CONTRACTOR REQUIRES ARE TO BE DONE BY THE CONTRACTOR AT HIS EXPENSE.
- 28. CONTRACTOR TO NOTE THEIR LOCATION PRIOR TO CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR OBJECTS MY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. CONTRACTORS ARE LEGALLY RESPONSIBLE FOR SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY.
- 29. THE CONSTRUCTION AREAS MAY CONTAIN UNDERGROUND ELECTRICAL LINES, CONDUITS MAY CONTAIN HIGH VOLTAGE OR LOW VOLTAGE ELECTRICAL WIRING. SOME ELECTRICAL WIRING MAY BE BURIED BELOW GROUND WITH CONDUITS. THE CONTRACTOR SHOULD EXERCISE CAUTION.

- 30. ANY DAMAGES TO FENCES, WALKS OR PRIVATE PROPERTY SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE, NO SEPARATE PAY.
- 31. CONTRACTOR TO MAKE ARRANGEMENTS WITH THE APPROPRIATE UTILITY COMPANY FOR SECURING POLES. IF NECESSARY, WHILE CONSTRUCTION PASSES BY POLES. COST OF SECURING POLES WILL BE PAID FOR BY THE CONTRACTOR. NO SEPARATE PAY.
- 32. CONSTRUCTION STAKING (ALIGNMENT AND GRADE) TO BE PROVIDED BY THE CONTRACTOR AT NO SEPARATE PAY.
- 33. SURPLUS EXCAVATED MATERIAL SHALL BE REMOVED AND DISPOSED OF OFF-SITE AS DIRECTED BY THE CITY ENGINEER. IF THE CITY ENGINEER NOTIFIES THE CONTRACTOR THAT THE OWNER DOES NOT HAVE USE FOR THIS MATERIAL, THE SURPLUS MATERIAL BECOMES THE PROPERTY OF THE CONTRACTOR. AND IT IS HIS RESPONSIBILITY TO DISPOSE OF THE MATERIAL.
- 34. ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE LOCAL REQUIREMENTS.
- 35. CONTRACTOR SHALL PROTECT EXISTING UNDERGROUND FACILITIES DURING INSTALLATION OF PROPOSED WORK.
- 36. PAVED SURFACES SHALL BE PROTECTED FROM DAMAGE FROM TRACKED EQUIPMENT.
- 37. IRON RODS DISTURBED DURING CONSTRUCTION TO BE REPLACED BY REGISTERED PUBLIC LAND SURVEYOR TO ORIGINAL PROPERTY CORNER AT NO SEPARATE PAY.
- 38. CONTINUOUS METALLIC MARKER TAPE SHALL BE USED FOR ALL NON-METALLIC PIPE. NO SEPARATE PAY.
- 39. RETESTING OF ANY TESTING FAILURES WILL BE THE CONTRACTOR'S RESPONSIBILITY. NO SEPARATE PAY.
- 40. COLLECTION AND DISPOSAL OF WASTEWATER, REMOVING EXISTING PIPE AND FITTINGS, BY-PASS PUMPING FLOW DIVERSIONS AND TEMPORARY PIPE PLUGS ARE CONSIDERED SUBSIDIARY TO THE PIPE AND TRENCH ITEMS AND SHALL NOT BE MEASURED FOR PAYMENT.
- 41. TEMPORARY FENCING AND TEMPORARY GATES, BARRICADES, WARNING LIGHTS, WARNING SIGNS, ETC. ARE CONSIDERED SUBSIDIARY TO THE WORK AND SHALL NOT BE MEASURED FOR PAYMENT
- 42. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN AN UPDATED REDLINED "AS-BUILT" SET OF PLANS ON SITE FOR INSPECTION BY THE CITY ENGINEER, THE CITY ENGINEER'S REPRESENTATIVE, AND THE OWNER'S REPRESENTATIVE.
- 43. WORK PERFORMED UNDER THIS CONTRACT IS GOVERNED BY REQUIREMENTS OF SEVERAL PUBLIC GOVERNMENTAL AND PRIVATE ENTITIES. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF GOVERNING ENTITIES.
- 44. CONTRACTOR TO COORDINATE WITH THE CITY OF EDINBURG ENGINEERING DEPARTMENT ON WORK SCHEDULES. TESTING, GENERAL INSPECTION, AND EXISTING LINES.
- 45. ALL CONSTRUCTION MATERIALS TESTING WILL BE COORDINATED THROUGH CITY OF EDINBURG ENGINEERING DEPARTMENT.
- 46. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL RETURN THE SITE TO ORIGINAL CONTOURS UNLESS DIFFERENT FINISHED ELEVATIONS ARE SHOWN ON PLANS. CONTRACTOR TO INSURE NO AREAS OF PONDING ARE PRESENT. UPON COMPLETION OF CONSTRUCTION. CONTRACTOR SHALL RETURN THE SITE TO ORIGINAL CONDITIONS INCLUDING BUT NOT LIMITED TO BACKFILL, TOP SOIL, HYDRO MULCH, ETC.
- 47. THESE PLANS, PREPARED BY THE CITY OF EDINBURG DO NOT EXTEND TO OR INCLUDE DESIGN OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES. AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF CITY OF EDINBURG LICENSED PROFESSIONAL ENGINEER(S) HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED IN THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS. INCLUDING THE PLANS AND SPECIFICATIONS REQUIRED BY THE HOUSE BILLS 622 AND 665 ENACTED BY THE TEXAS LEGISLATURE IN THE 7TH LEGISLATURE REGULAR SESSION.
- 48. ALL SAFETY EXPOSURES OR VIOLATIONS SHALL BE RECTIFIED IMMEDIATELY BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROTECTION OF PERSONS AND PROPERTY, AND FOR PROVIDING SAFE WORKING CONDITIONS THROUGHOUT THE WORK PROGRESS. ALL AREAS ADJACENT TO THE CONSTRUCTION AREA OR AFFECTED BY THE CONSTRUCTION MUST BE PROTECTED FROM DAMAGE, CLEANED AND RESTORED TO THE ORIGINAL CONDITION AT NO ADDITIONAL EXPENSE.
- 49. CONTRACTOR SHALL FOLLOW THE CITY OF EDINBURG LATEST ENGINEERING STANDARDS.

WASTEWATER COLLECTION LINE CONSTRUCTION NOTES:

- 1. PIPE BEDDING REQUIREMENTS ARE OUTLINED IN DETAIL SHEET
- 2. TOPS OF MANHOLES TO BE SET AT ELEVATION OF NATURAL GROUND. UNLESS SHOWN OTHERWISE ON PLANS. FINISHED GRADE TO SLOPE AWAY FROM TOP OF RIM.
- 3. ALL PROPOSED WASTEWATER COLLECTION LINES WILL BE GREEN COLORED SDR 26 PIPE MATERIAL UNLESS OTHERWISE NOTED. NEITHER BLUE PVC NOR DUCTILE IRON PIPE SHALL BE USED FOR SANITARY SEWERS.
- 4. CONTRACTOR TO PROVIDE DEFLECTION TEST IN ACCORDANCE WITH TCEQ CHAPTER 317.2(a), (4) (b), 30 DAYS AFTER INSTALLATION. NO WATER TEST ALLOWED.
- 5. ALL PARALLEL AND CROSSING OF WASTEWATER COLLECTION LINES AND WATER LINES CONSTRUCTED IN ACCORDANCE WITH TCEQ REGULATIONS CHAPTER 290 AND 317.
- 6. ALL TESTING OF WASTEWATER COLLECTION LINES ARE TO COMPLY WITH TCEQ REGULATIONS CHAPTER 317 SUBCHAPTER C. NO SEPARATE PAY.
- CONTRACTOR TO PROVIDE LEAKAGE TEST FOR MANHOLE IN ACCORDANCE WITH TCEQ CHAPTER 317 (c), (5) (h) OF THE STATE WASTEWATER CODE. NO WATER TEST ALLOWED.
- 8. EXCAVATION, BACKFILL, TOP SLAB, RING AND COVERS, ETC. FOR MANHOLES ARE CONSIDERED SUBSIDIARY TO THE MANHOLE ITEMS AND SHALL NOT BE MEASURED FOR PAYMENT.
- 9. NO WATER JETTING ALLOWED, MECHANICAL COMPACTION REQUIRED.
- 10. WASTEWATER MANHOLES SHALL INCLUDE A RAIN GUARD AND SHALL INCLUDE THE LATEST CITY LOGO.
- 11. ALL MANHOLES INSTALLED ON THIS PROJECT SHALL BE FIBERGLASS. THE MANHOLE MANUFACTURER SHALL PROVIDE CERTIFICATION AND DESIGN CALCULATIONS TO THE CITY SHOWING THAT THE MANHOLES ARE DESIGNED FOR TRAFFIC LOADING (H20 DESIGN VEHICLE) AND THE APPLICABLE SOIL AND HYDROSTATIC PRESSURE LOADING CONDITIONS. MINIMUM WALL THICKNESS SHALL BE 0.5 INCH. IF REQUIRED BY THE MANUFACTURERS DESIGN. HORIZONTAL RIBS AND/OR VERTICAL STIFFENERS MAY BE UTILIZED TO ACHIEVE REQUIRED DESIGN CHARACTERISTICS.







EL TULE RECREATION CENTER **GENERAL NOTES**

CREATED BY:

WATER LINE CONSTRUCTION NOTES:

- ALL WATER LINES TO BE BLUE COLORED C-900 DR 18 CLASS 235 PVC UNLESS OTHERWISE NOTED.
- 2. DOUBLE CHECK VALVE WILL BE REQUIRED WHEN FILLING NEW WATERLINE FOR PRESSURE TESTING.
- 3. CONTRACTOR TO FIELD LOCATE EXISTING METERS & PROPOSED SERVICE CONNECTION LOCATIONS PRIOR TO CONSTRUCTION OF MAIN.
- 4. WATER LINE MAINS TO BE HYDROSTATICALLY & BACTERIOLOGICALLY TESTED PER CITY OF EDINBURG REQUIREMENTS PRIOR TO TIE-INS. CITY OF EDINBURG APPROVAL OF TESTING IS REQUIRED.
- 5. CONTRACTOR SHALL MAINTAIN A MIN. OF 4 FT COVER ON ALL WATER LINES.

PAVING CONSTRUCTION NOTES:

- CONTRACTOR TO FILL BEHIND CURBS AND WALKS AND SHAPE TO ENSURE PROPER DRAINAGE.
- 2. WHERE EXISTING ASPHALT AND CONCRETE ARE TO BE CUT. THESE CUTS SHALL BE VERTICAL AND MADE WITH A SAW.
- 3. FLEXIBLE BASE ARE TO COMPLY WITH LATEST CITY OF EDINBURG REQUIREMENTS.
- 4. PRIME COAT SHALL BE MC-30 APPLIED AT A RATE OF 0.15 GAL/SY.
- 5. TYPES AND RATES FOR SURFACE TREATMENTS SHALL BE: HOT MIX ASPHALTIC CONCRETE AND SHALL MEET THE REQUIRED TX DOT ITEM 340.
- 6. CARE SHALL BE TAKEN TO PROTECT CURB AND GUTTER AND OTHER CONCRETE SURFACES FROM ASPHALT SPLATTER DURING PRIMING AND SEALING OPERATIONS.
- 7. HMAC TRANSPORT TRUCKS TO BE EQUIPPED WITH CANVAS COVERS TO BE UTILIZED DURING MATERIAL HAULING. MATERIAL DELIVERED TO SITE AT IMPROPER TEMPERATURE SHALL BE REJECTED. HOT MIX SHALL BE LAID AT A MINIMUM TEMPERATURE OF 225 DEGREE FAHRENHEIT.
- 8. SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION ON JUNE 1, 2004, SHALL GOVERN ON THIS PROJECT.

EROSION CONTROL

- 1. IT IS THE INTENT OF THIS SUGGESTED EROSION CONTROL PLAN AND WITHIN THE SPECIFICATIONS TO BE USED AS THE GENERAL GUIDELINES OF THE STORM WATER POLLUTION PREVENTION PLAN (SW3P) FOR THIS PROJECT TO ESTABLISH A MINIMUM BASIS OF COMPLIANCE WITH FEDERAL REGULATIONS. CONTRACTOR SHALL PREPARE AND SUBMIT A NOTICE OF INTENT PER THE REQUIREMENTS IN THE NPDES GENERAL PERMIT. THE CONTRACTOR SHALL PREPARE THE STORM WATER POLLUTION PREVENTION PLAN (SW3P) AND BE SOLELY RESPONSIBLE FOR ITS IMPLEMENTATION. THE STORM WATER POLLUTION PREVENTION PLAN (SW3P) SHALL MEET THE REQUIREMENTS SET FORTH IN THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) (NO SEPARATE PAY) TPDES GENERAL PERMIT FOR REGION 6 FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITES.
- 2. THE STORM WATER POLLUTION PREVENTION PLAN (SW3P) SHOULD ADDRESS THREE GOALS:
- DIVERSION OF UPSLOPE WATER AROUND DISTURBED AREAS OF THE SITE;
- LIMITS THE EXPOSURE OF DISTURBED AREAS TO THE SHORTEST DURATION POSSIBLE: AND
- c. REMOVAL OF SEDIMENT FROM STORM WATER BEFORE IT LEAVES THE SITE.
- 3. THE CONTRACTOR SHALL MAKE THE STORM WATER POLLUTION PREVENTION PLAN (SW3P) AVAILABLE. UPON REQUEST. TO TCEQ.
- 4. THE CONTRACTOR MUST AMEND PLANS WHENEVER THERE IS A CHANGE IN DESIGN. CONSTRUCTION, OPERATION, OR MAINTENANCE OF THE PLAN. OR WHEN THE EXISTING PLAN PROVES INEFFECTIVE. MODIFICATIONS INCLUDING DESIGN AND ALL ADDITIONAL MATERIALS AND WORK SHALL BE ACCOMPLISHED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 5. STABILIZATION MEASURES ARE TO BE INSPECTED AT A MINIMUM OF ONCE EVERY 14 DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVEN GREATER THAN 0.5 INCHES. REPAIRS AND INADEQUACIES REVEALED BY THE INSPECTION MUST BE IMPLEMENTED WITHIN 7 CALENDAR DAYS FOLLOWING THE INSPECTION.
- 6. AN INSPECTION REPORT THAT SUMMARIZES INSPECTION ACTIVITIES AND IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN (SW3P) SHALL BE RETAINED AND MADE PART OF THE PLAN.
- 7. ALL CONTRACTORS AND SUBCONTRACTORS IDENTIFIED IN THE PLAN MUST CERTIFY AS TO AN UNDERSTANDING OF THE NDPES GENERAL PERMIT BEFORE CONDUCTING ANY ACTIVITY IDENTIFIED IN THE POLLUTION PREVENTION PLAN.
- 8. THE CONTRACTOR SHALL ADOPT APPROPRIATE CONSTRUCTION SITE MANAGEMENT PRACTICES TO PREVENT THE DISCHARGE OF OILS, GREASE, PAINTS, GASOLINE, AND OTHER POLLUTANTS TO STORM WATER, APPROPRIATE PRACTICES CAN INCLUDE:
- DESIGNATING AREAS FOR EQUIPMENT MAINTENANCE AND REPAIR:
- REGULAR COLLECTION OF WASTE:
- CONVENIENTLY LOCATED WASTE RECEPTACLES: AND
- DESIGNATING AND CONTROLLING EQUIPMENT WASH DOWN.
- 9. THE CONTRACTOR SHALL AMEND OR MODIFY THIS PLAN AS REQUIRED BY CONSTRUCTION MEANS, METHODS AND SEQUENCE. MODIFICATIONS SHALL NOT COMPROMISE THE INTENT OF THE REQUIREMENTS OF LAW AND THIS PLAN. MODIFICATIONS SHALL NOT BE BASIS FOR ADDITIONAL COST TO THE OWNER.
- 10. AREAS OF CONSTRUCTION ELSEWHERE ON THE JOB SITE SHALL CONFORM TO THE DETAILS SHOWN ON THE PLANS.
- 11. BORROW AREAS. IF EXCAVATED. SHALL BE PROTECTED AND STABILIZED UTILIZING THE PLAN DETAILS. ALL WORK SHALL CONFORM TO THE GOVERNMENTAL REQUIREMENTS AND BECOME PART OF THE STORM WATER POLLUTION PREVENTION PLAN (SW3P). THE WORK SHALL BE DONE BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 12. ALL NON-PAVED AREAS SHALL BE MULCHED AND SEEDED WITH EROSION PROTECTION IMMEDIATELY UPON COMPLETION OF FINAL GRADING. THIS INCLUDES ALL DITCHES AND EMBANKMENTS. THE CONTRACTOR SHALL MAINTAIN FINAL GRADING AND KEEP SEEDED AREAS WATERED UNTIL FULLY ESTABLISHED AND ACCEPTED BY THE OWNER.
- 13. THE CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION EXIT AT ALL TRAFFIC EXIT POINTS PRIOR TO EXISTING ONTO ANY PAVED ROADWAY.

SEQUENCE OF CONSTRUCTION:

PHASE I

- INSTALL STABILIZED CONSTRUCTION EXITS (SCE) AND/OR VEHICLE WASH DOWN AREAS.
- PREPARE TEMPORARY PARKING AND STORAGE AREA. UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER. PARKING. LAY DOWN. PORTA POTTY. WHEEL WASH. CONCRETE WASHOUT. MASONS AREAS, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., DENOTE THEM ON THE SITE MAPS IMMEDIATELY AND NOTE ANY CHANGES IN THE LOCATIONS AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.
- 3. INSTALL SEDIMENT BARRIERS DOWN SLOPE FROM THE CONSTRUCTION ACTIVITIES THAT DISTURB SITE SOIL AS SHOWN ON PLAN.
- 4. HALT ALL ACTIVITIES AND CONTACT THE CIVIL ENGINEERING CONSULTANT TO PERFORM INSPECTION OF BMP'S. GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT STORM WATER PRE-CONSTRUCTION MEETING WITH ENGINEER AND ALL GROUND DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.
- 5. INSTALL OUTFALL PIPE AND STRUCTURE FOR SEDIMENT POND.
- CONSTRUCT THE SEDIMENTATION AND SEDIMENT TRAP BASINS.
- 7. PROVIDE SLOPE STABILIZATION AS SHOWN ON PLAN.
- CLEAR AND GRUB THE SITE.
- 9. START CONSTRUCTION OF BUILDING PAD AND STRUCTURES. PHASE ii
- TEMPORARY SEED DENUDED AREAS. 2. INSTALL UTILITIES, UNDER DRAINS, STORM SEWERS, CURBS AND GUTTERS.
- 3. INSTALL RIP RAP AROUND OUTLET STRUCTURES.
- INSTALL INLET PROTECTION AROUND ALL STORM SEWER STRUCTURES.
- 5. 5. PREPARE SITE FOR PAVING.
- 6. PAVE SITE.
- INSTALL INLET PROTECTION AS NECESSARY AFTER PAVING.
- COMPLETE GRADING AND INSTALL PERMANENT SEEDING AND PLANTING.
- 9. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES. (ONLY IF SITE IS STABILIZED)

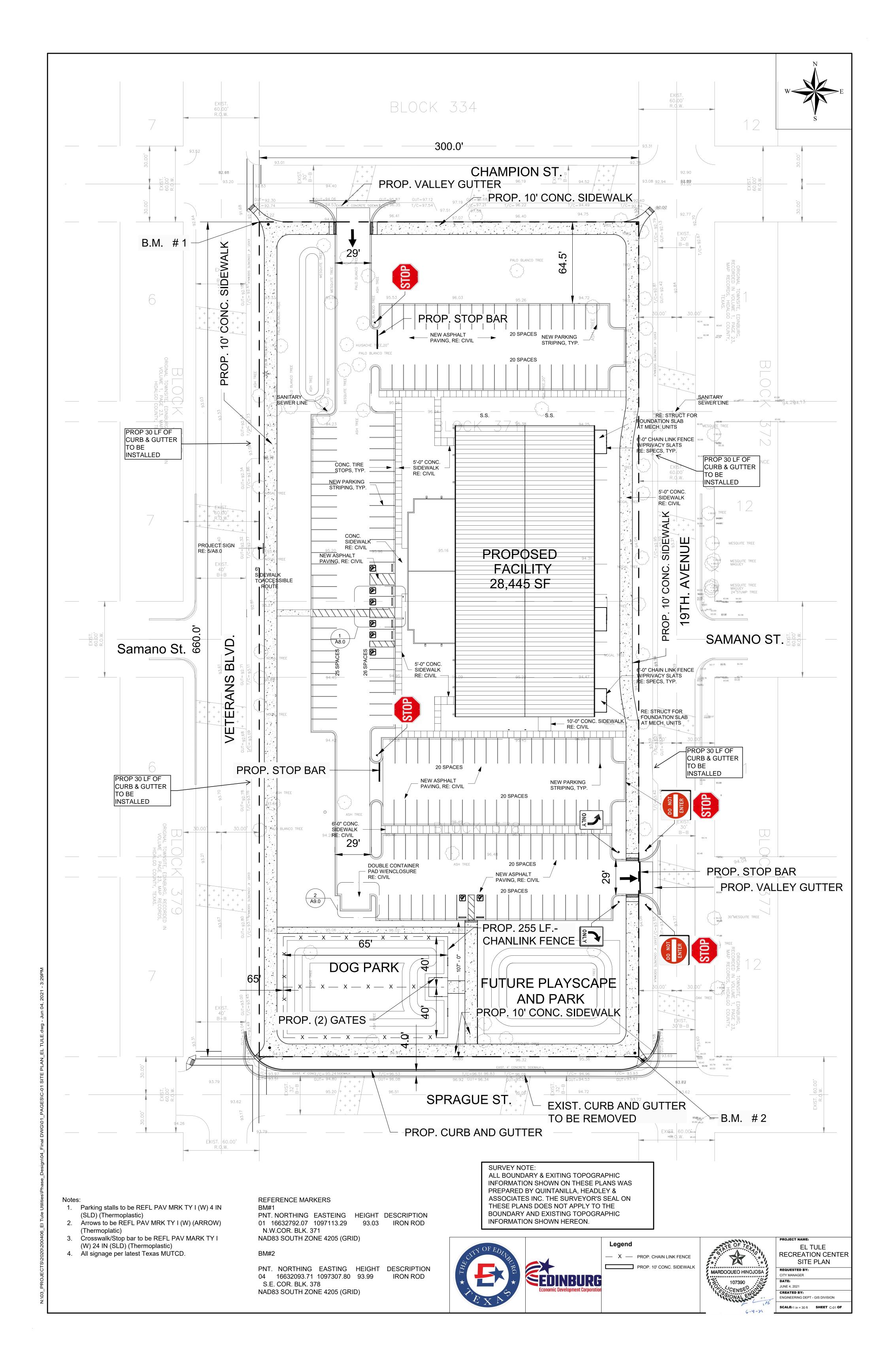


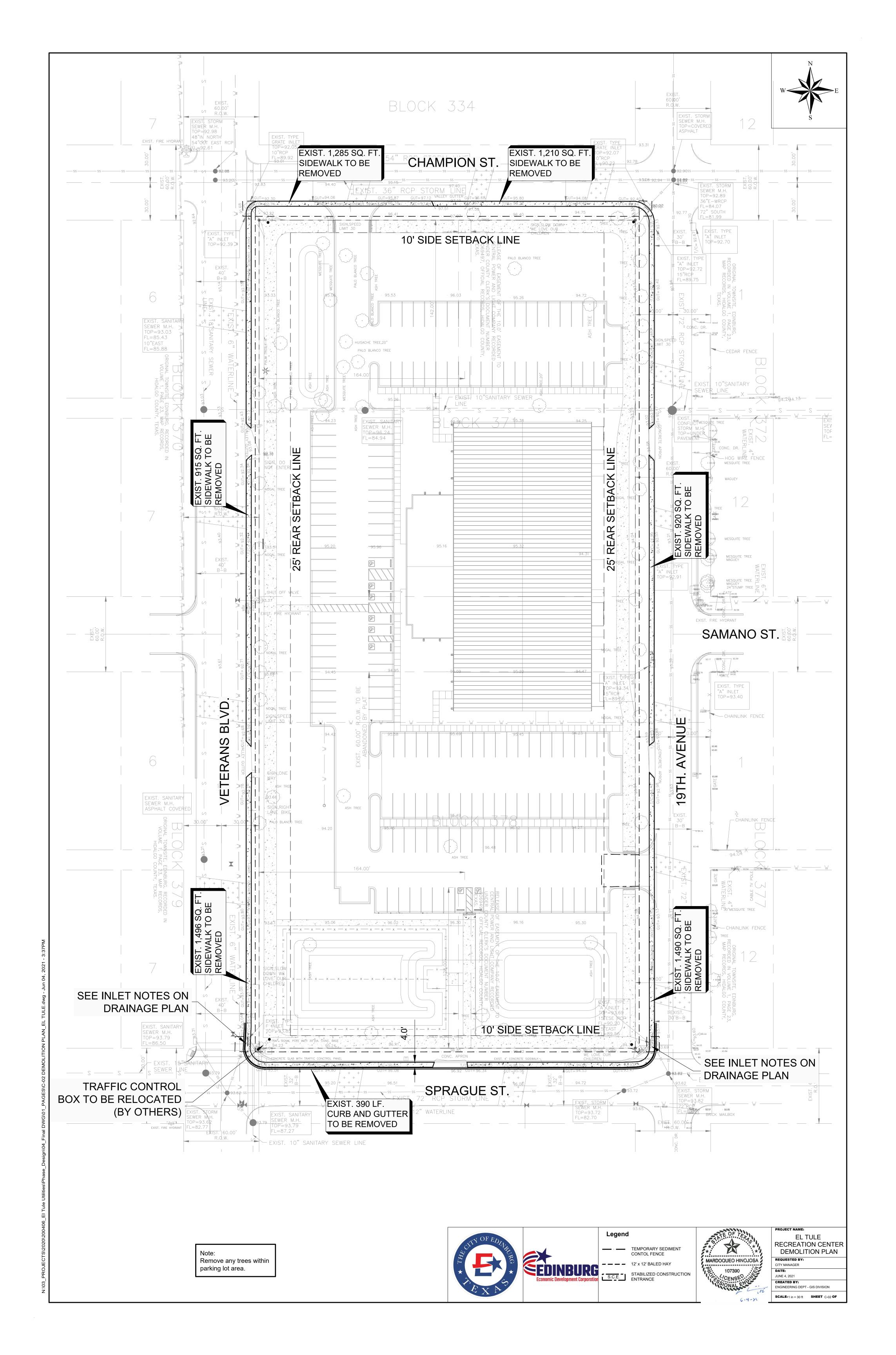


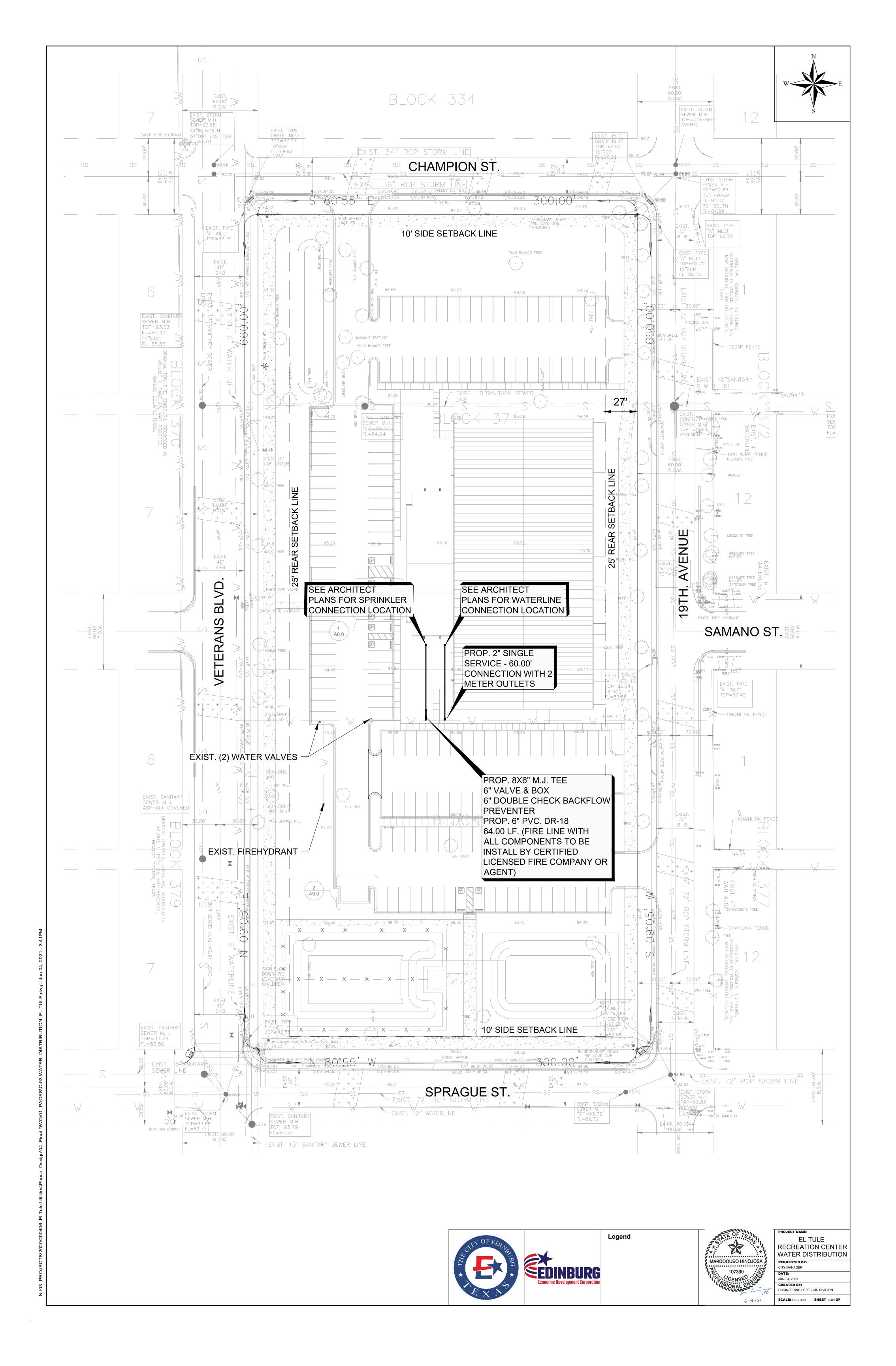


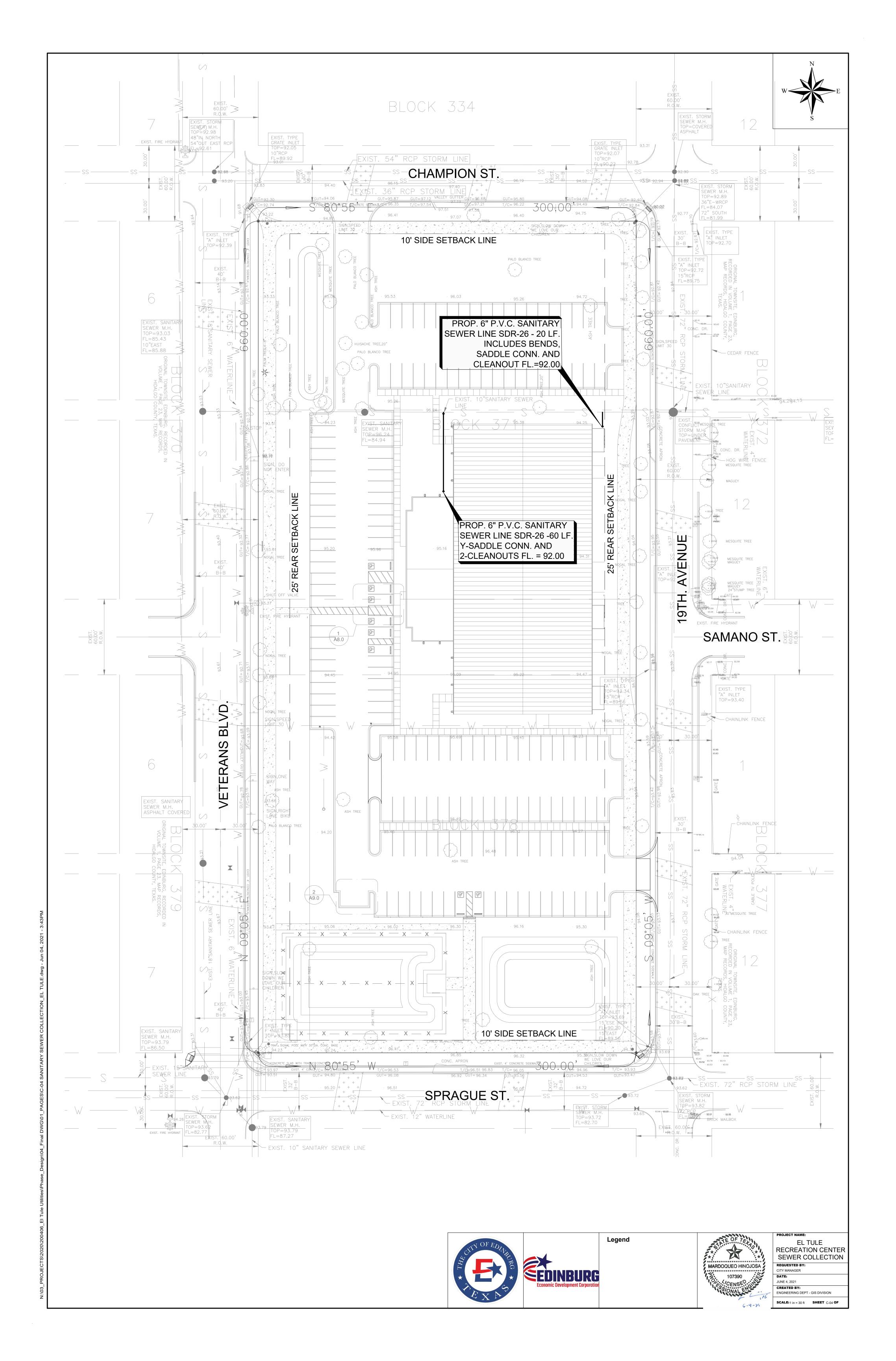
EL TULE RECREATION CENTER **GENERAL NOTES** CITY MANAGER

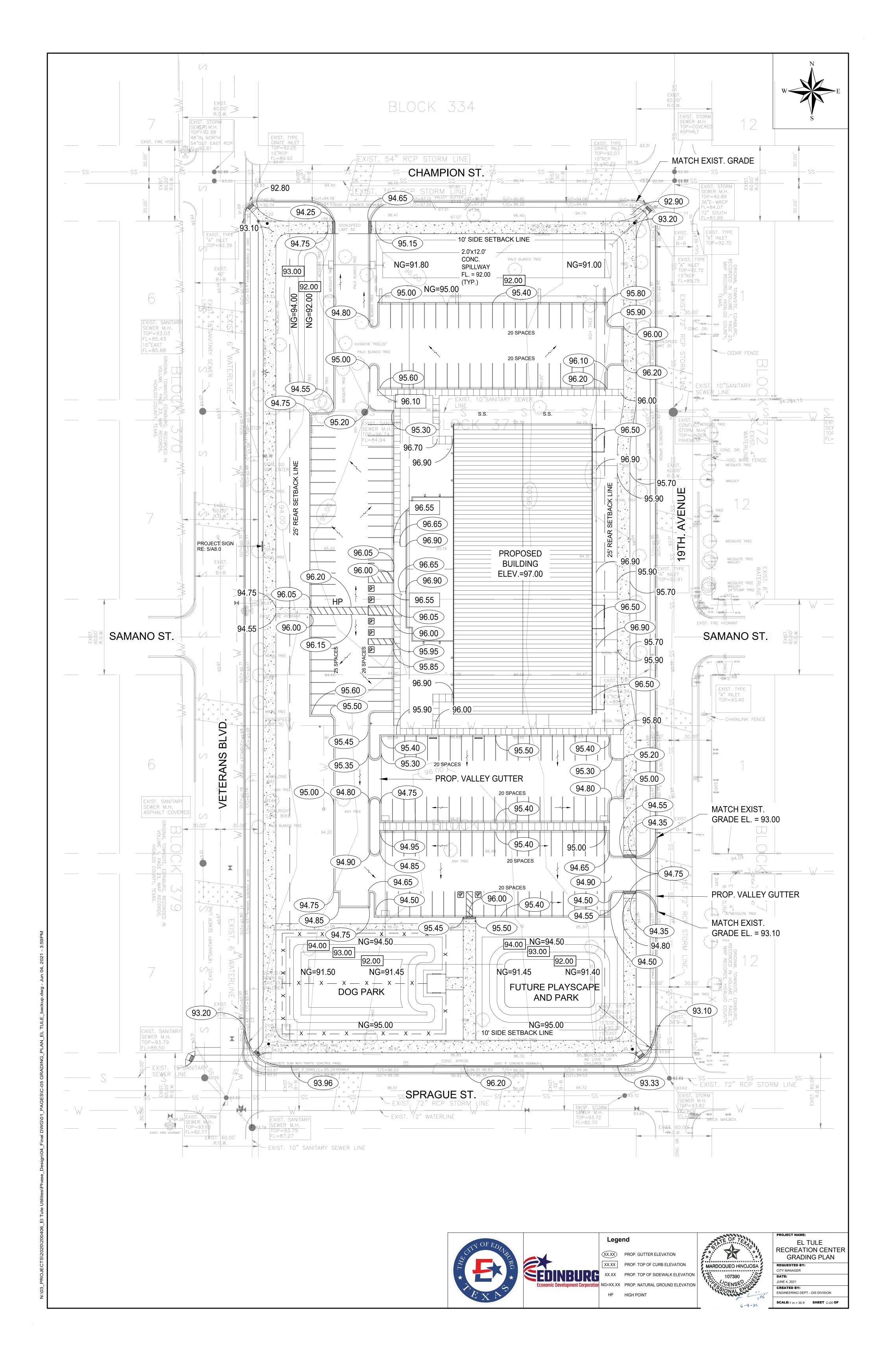
JUNE 4, 2021 CREATED BY: ENGINEERING DEPT - GIS DIVISION

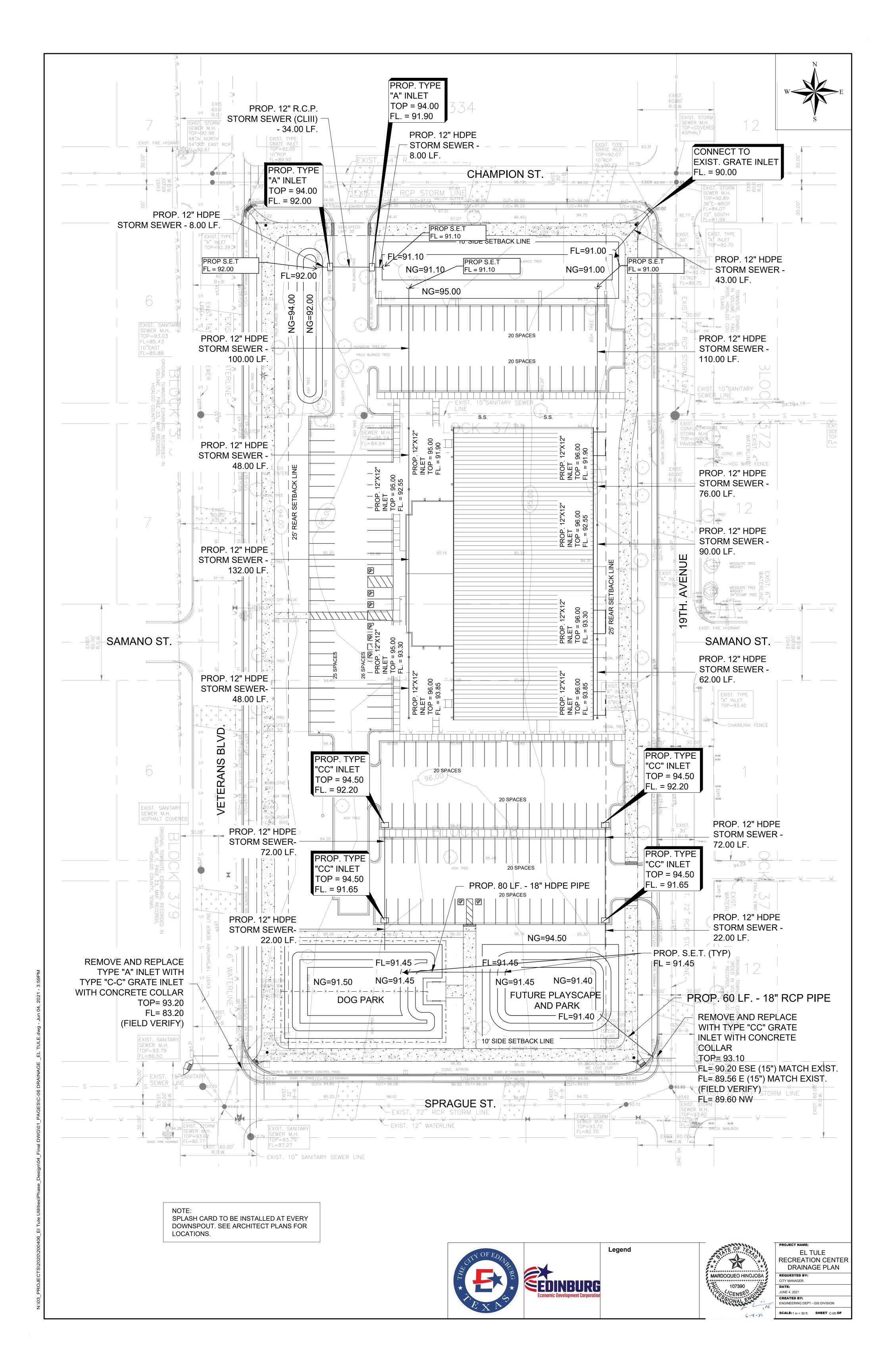


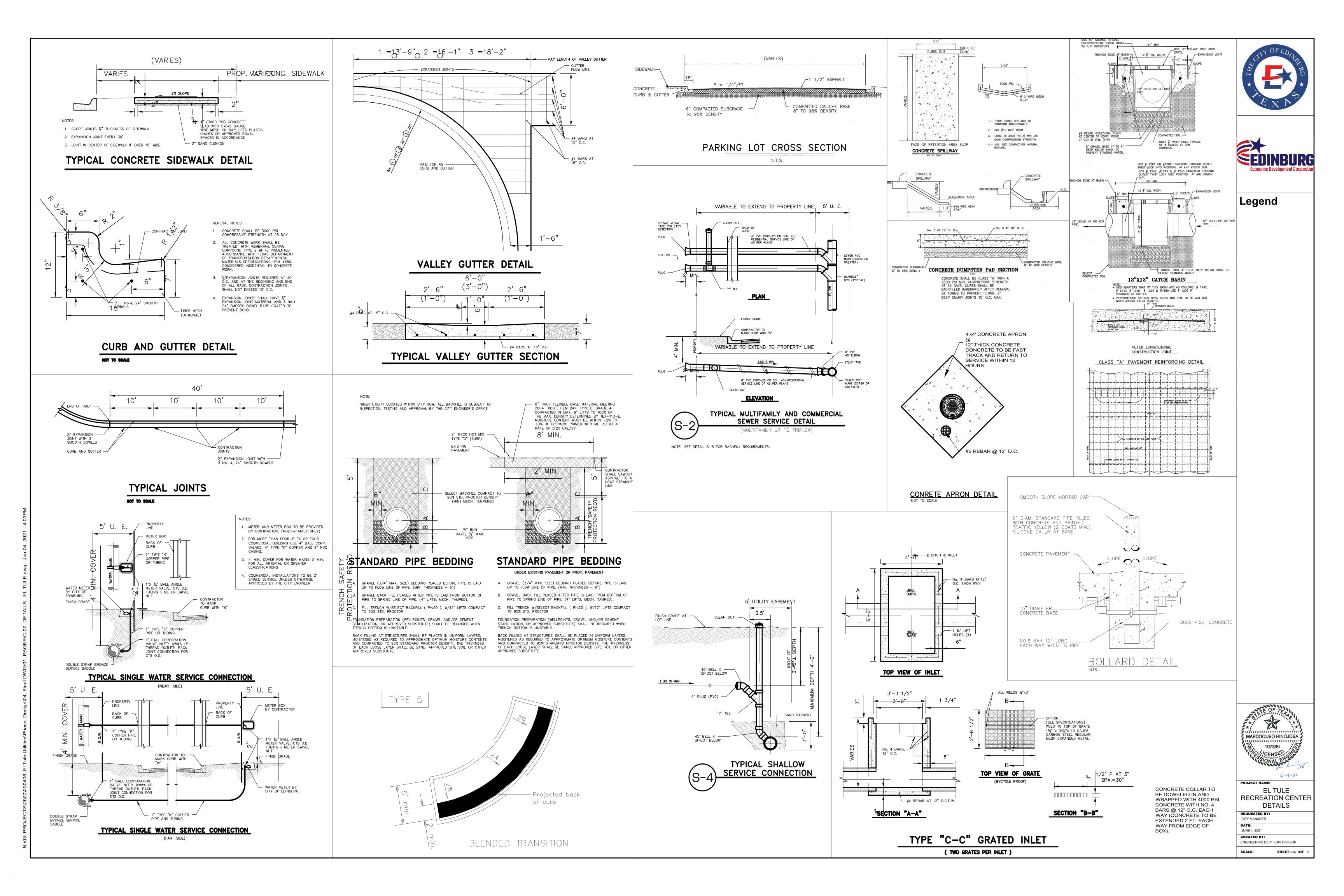


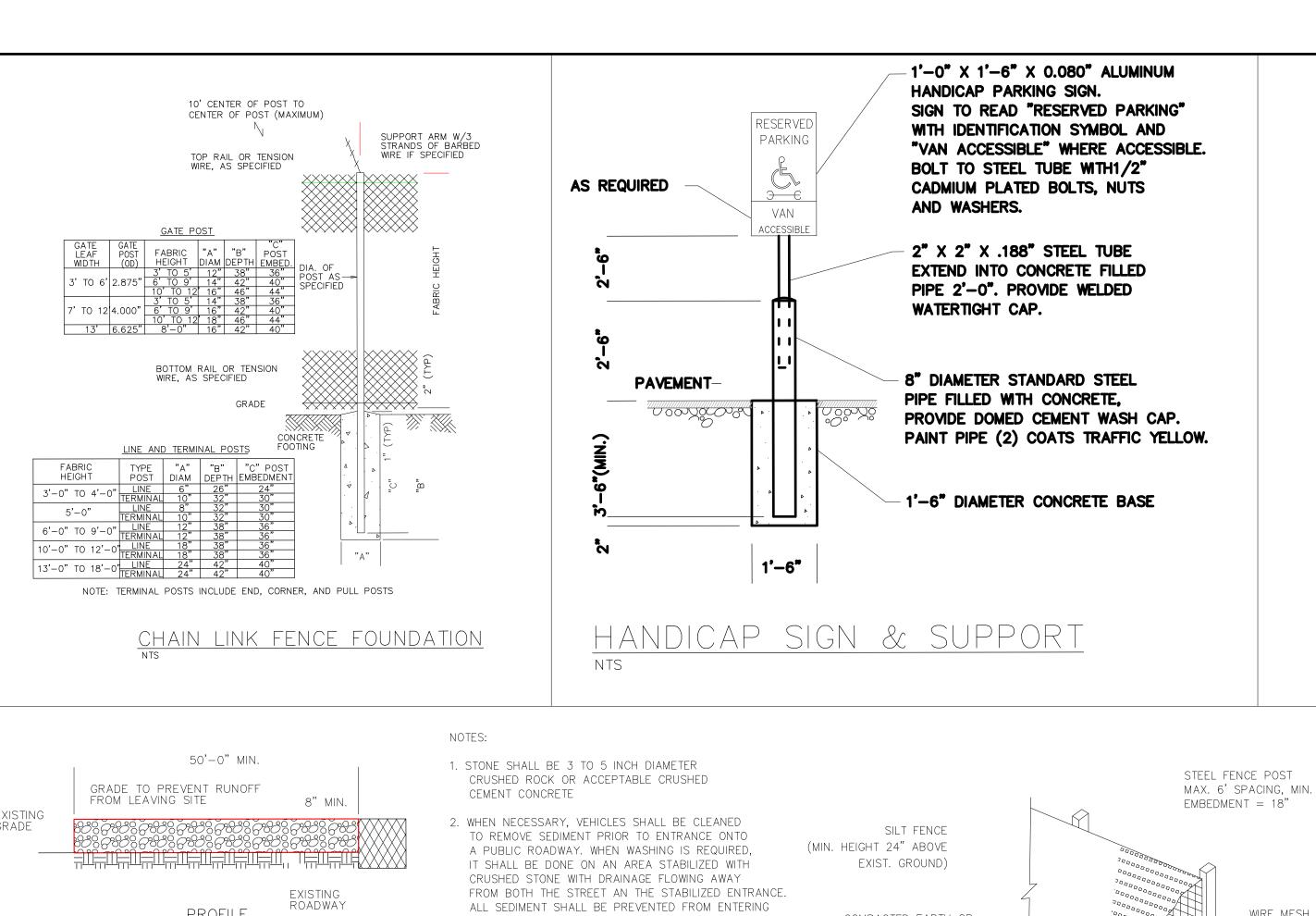


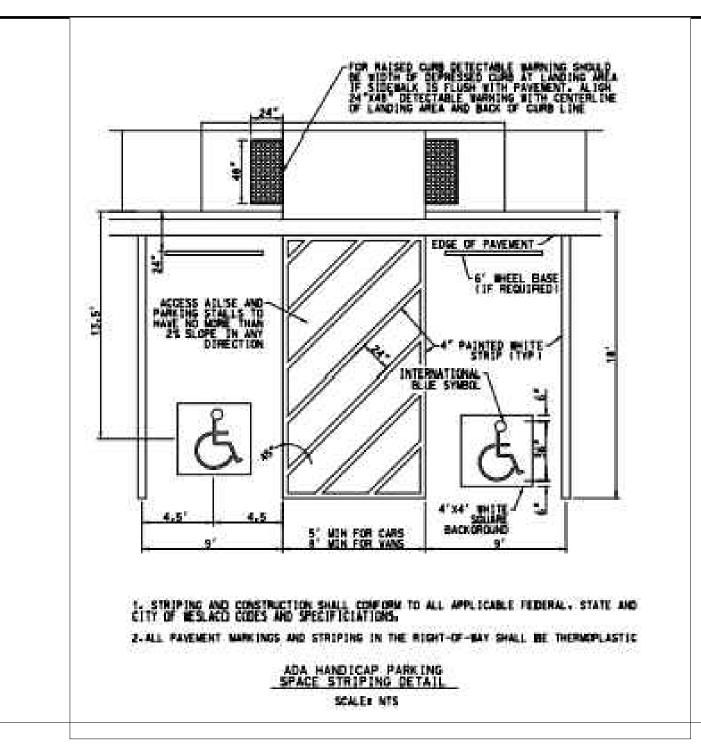












1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED WITH

TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND

PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE

ON UPHILL SIDE, AS NECESSARY, TO PREVENT FLOW UNDER FENCE.

FABRIC SHALL OVERLAP AT ABUTTING ENDS A MINIMUM OF 3 FEET

REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

AND SHALL BE JOINED SUCH THAT NO BYPASS OR LEAKAGE OCCURS.

ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND

TRENCHED IN WEIGHT FABRIC FLAP WITH WASHED GRAVEL

2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL

THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO

OR TO BACKING SUPPORT, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST.

4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST

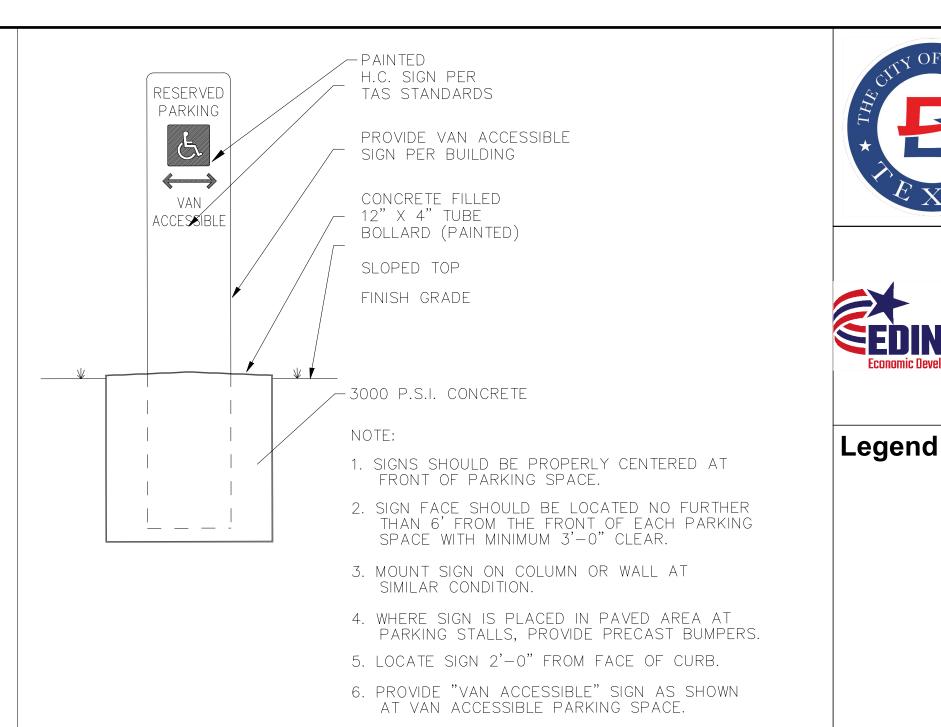
5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL. REPAIR OR

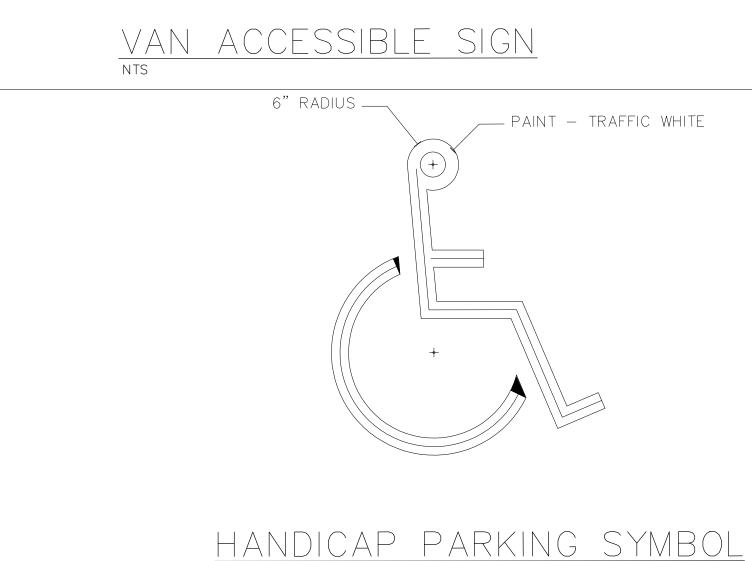
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED

THE SILT SHALL BE DISPOSED OF IN AN APPROVED SITE AND IN SUCH A

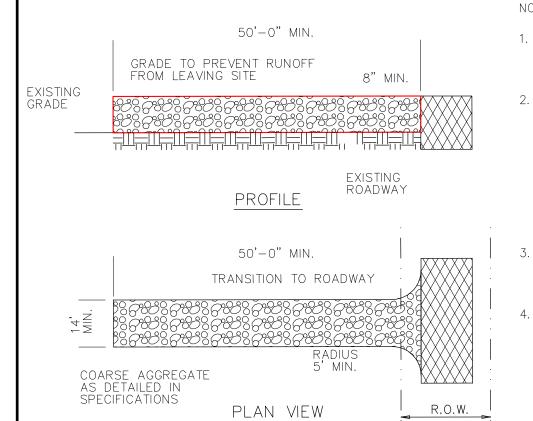
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES.

A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST





- BACK OF CURB



STABILIZED CONSTRUCTION EXIT

3:1 Max.

Angle stakes

oward adjacent

Overlap tops of

Hay Bales

ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.

3. THE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

4. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE A CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PAVED SURFACES, MUST BE REMOVED

5. STABILIZED CONSTRUCTION EXIT TO BE REMOVED UPON COMPLETION OF CONSTRUCTION.

4" min. to

1/2 height

of bale

Angle first stake

toward previously

laid bale

SECTION B-B

Fill voids between

bales with hay

WIRE MESH COMPACTED EARTH OR (4X4-W1.4XW1.4 MIN ALLOWABLE) 3" - 5" OPEN GRADED ROCK OR PLASTIC GEOGRID BACKING SUPPORT TRENCH FABRIC TOE-IN (BACKFILLED & COMPACTED)

> 1. Hay bales shall be a minimum of 30" in length and weigh a minimum of 50 Lbs.

2. Hay bales shall be bound by either wire or nylon or

5. Hay bales shall be securely anchored in place with 3/8" Dia. rebar or 2" x 2" wood stakes, driven through the bales. The first stake shall be angled towards the previously

be modified by the Engineer.

7. Bales should be replaced usually every 2 months or more often during wet weather when loss of structural integrity

SILT FENCE NOTES:

BACKFILLED.

BE EMBEDDED A MINIMUM OF 18".

ASH BLOCK DETAIL

TOW-AWAY ZONE - 3" HIGH WHITE LETTERING ON RED STRIPE @ 35 FT. (OR PER LOCAL CODE) INTERVALS ON CENTER MIN. THICKNESS OF LETTERING TO BE 0.5 INCHES. — BACK OF CURB — FACE OF CURB - CONTINUOUS RED STRIPE 3" HIGH WHITE LETTERING ON RED STRIPE @ 35 FT. — LIP OF GUTTER (OR PER LOCAL CODE) INTERVALS ON CENTER MIN. THICKNESS OF LETTERING TO BE 0.5 INCHES. FIRE LANE DESIGNATION

— FACE OF CURB

- CONTINUOUS RED STRIPE

NTS

DETAILS REQUESTED BY CITY MANAGER

ENGINEERING DEPT - GIS DIVISION SHEETC-07.2OF 2 SCALE:

Angle stakes toward adjacent bale 1/2 height of bale

PLAN VIEW

3:1 Max._

Ditch Flowline

PROFILE VIEW

BALED HAY FOR EROSION CONTROL

ISOMETRIC VIEW SILT FENCE DETAIL GENERAL NOTES

Wire, nylon or

polypropylene

3/8" Dia. rebar

or 2" x 2"

wood stakes

polypropylene string. The bales shall be composed entirely of vegetative matter.

3. Hay bales shall be embedded in the soil a minimum of 4" and where possible 1/2 the height of the bale.

4. Hay bales shall be placed in a row with ends tightly abutting the adjacent bales. The bales shall be placed with bindings parallel to the ground.

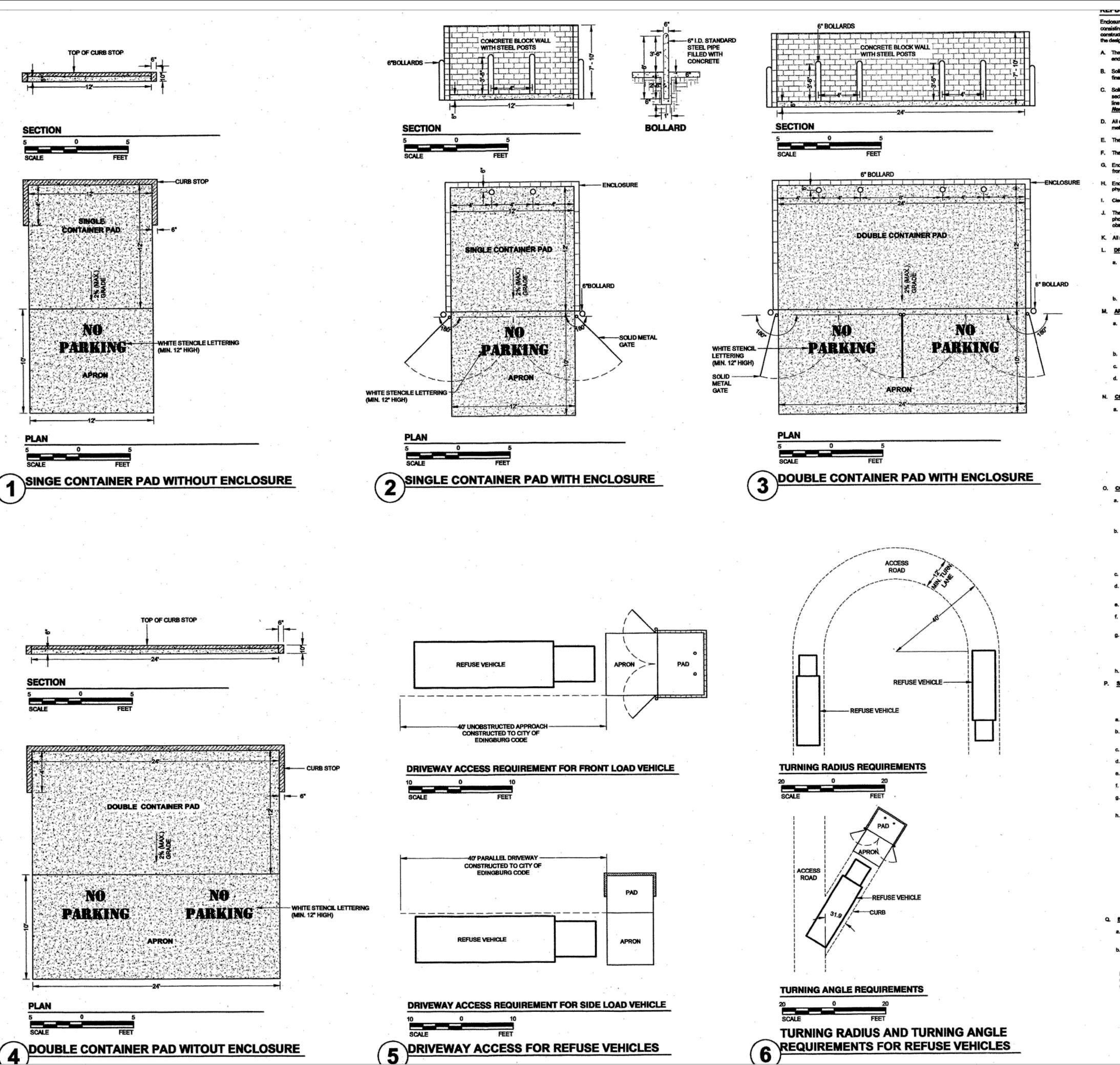
laid bale to force the bales together.

6. The guidelines shown hereon are suggestions only and may

MARDOQUEO HINOJOSA

PROJECT NAME: EL TULE **RECREATION CENTER**

JUNE 4, 2021 CREATED BY:



Enclosures/Ptids - Enclosures/Pads are required for all new and/or significantly remodeled commercial, institutional or multiple-family dwellings and/or residential developments consisting of three (3) or more units. This area shall be set aside for the provision of adequate and accessible endocures for the storage of refuse in proper receptacles. The design, construction and accessibility of the pads and enclosures shall be shown on the site plan in conformance with the standards and specifications of the Department of Solid Waste and the design ou delines listed below.

- A. The refuse collection area shall be in an enclosure(s)/pad area conveniently located next to the building(s) it serves and easily accessible to collection vehicles. No loaun/pads shall be located in any required setback unless there is no other option available to place the enclosure
- B. Solid Waste Containers and Storage areas shall be acreened from public view; containers that are not visible from any public way or view may qualify for container pad use only, final determination will rest with the Department of Solid Waste Management.
- C. Solid Waste Container Enclosure Areas: Wherever feasible solid waste storage/container enclosure(s) shall not be located in the front yard area, defined for the purposes of this section as the area measured from the front property line to a line parallel with the face of the front wall of the main building located the greatest distance from the front property. line and extending the full width of the lot. (General Enclosure Requirements - please also refer to Article 2; Division 2.300 General Use Standards (G)(2); Sec. 2.302

 Monreshisential Use (D)(3) of the City Unified Development Code)
- D. All containers, with the exception of twenty to forty (20-40) cubic yard roll-off containers, shall be permanently protected from adverse environmental conditions with lids or other methods approved by the Department of Solid Wasle. The lids shall be kept closed when the receptacles are not being loaded or emptied.
- E. The enclosure(s) shall be secured to prevent the removal of materials by unauthorized persons while permitting access to it by authorized persons.
- F. The property owner shall be responsible for maintenance of the enclosure(s)/container pad and maintain such in a clean condition.
- G. Enclosures and Peds shall be clear of other materials/items and shall be used only for solid waste collection services no other services or materials shall be collected nor stored from within the enclosure/ped. (i.e. waste oil collection containers, milk, drink, trays or carriers, tires, etc...)
- Enclosures and pads shall be located so that refuse vehicles can pull in or pull up to the front of the enclosure or pad, empty and reset the container without the vehicle operator
- I. Clear access for collection vehicles shall be provided to the front of the solid weste container pad.
- J. The solid waste container pad or enclosure shall be located at a minimum of fourteen (14) feet away from any utilities, electrical services both above and below ground, data and phone or mmunications, combustible walts openings or combustible roof eave lines. The container shall not be located under overhead wiree, tree branches or other overhead obstructions. The distance from any obstruction to any other obstruction shall not be less than thirty-five feet (35').
- K. All refuse bins and enclosures shall be located on major drives within developments to provide adequate circulation of refuse vehicles. (Must be within setback requirements)

- a. A 20-foot wide asphalt pevernent section that consist of 8-inch subgrade, 12-inch flexible caliche base and 3-inch hot mix concrete asphalt material or concrete 6-inch slab (330.0 psi) with #4 rebar at 18-inch on center each way reinforcement driveway with a 40-foot straight drive, for front load systems, direct access that leads to and from the enclosures to the bin; or a 40 foot parallel driveway from the center point of the pad/enclosure for side loads systems; is required and should be built in accordance with the City Engineering Standards and Specifications and be able to withstand trucks weighing up to 66,000lbs. of Gross Vehicle Weight (GVW). All access and service area surfaces shall be engineered accordingly to avoid future pavement damage.
- b. Through circulation of traffic shall be provided for Refuse vehicles in all perking areas. This is to prevent or reduce necessity of backing up with refuse collection vehicles.

- a. A 6 inch concrete slab "Apron", shall be installed in front of the service area and cover the Width of container service pad and extend out an additional 10 feet from the pad. The apron shall be to City Standards and to withstand up to 22,000 lbs. of direct force from a single truck axle. All access and service area surfaces shall be engineered accordingly to avoid future pavement damage. Concrete surfacing is required in all services areas. Dimensions may increase depending on the size of the enclosure and its
- b. Aprim surface shall be the same elevation as the pad threshold and the surrounding surfaces.
- c. No trainage V-ditches or catch basins shall be allowed within this 6" apron. Apron shall be to grade on all edges.
- d. The area in front of the solid waste container pad or enclosure shall be marked as a " NO PARKING" zone with minimum 12" high white traffic safety paint stanciled lettering.

N. CONTAINER PAD:

- a. The minimum interior dimension for a container pad to house at least one ten (10) cubic yard bin is 12 feet wide x 12 feet deep; minimum pad dimensions may increase depending on the size and number of bins. The container pad shall be constructed with minimum of a Six (6) inch thick reinforced concrete slab and must meet current City
 - Engineering Standards. Dimensions may increase depending on the number of bins (see DETAILS 184).
 - 1. The concrete pad shall be sloped to the front to eliminate ponding with a maximum slope of 2%.
 - 2. Curb-stop or wheel-stop: A 10" high x 6" deep concrete high curb (i.e. curb-stop or wheel-stop) shall be provided to the rear and sides of the pad. If a container enclosure is not required, the rear curbing shall run along the full width of the ped, and the side curbing shall be a minimum of four (4) feet in length from the
 - 3. The concrete forms shall be inspected and approved and approved by the City's Engineering and Code Enforcement Departments, for size and location prior to

- a. If a container enclosure is required, a concrete block wall shall be on constructed all three sides, with a twelve (12) foot clear gate opening, a twelve (12) foot pad depth. The wall shall have a minimum height of seven (7) feet with a maximum of ten (10) feet please refer to article 2; division 2.300 general use star dards (g)(2); or sec. 2.302 nonresidential use (d)(3) of the City Unified Development Code. Minimum pad dimensions may increase depending on the size and number of bins. (see DETAIL 2 and 3).
- b. Gats/doors: gates shall be solid metal. Geted openings for ingress/egress of bins must be a minimum of 12 feet wide with no posts in the middle. A separate, additional ped satrian entrance is encouraged from the backside. Use bolts, not screws, to secure gate to the poles or walls. The gate shall have latches to hold the gate in the open position. All latches shall be installed on exterior of gates and latch rods shall be a minimum of 36" above ground level. Latch rods shall be a minimum of 34" in diameter. The receiver shall be three inches deep, one inch inside diameter and flush with the ground. Hung gates must have a 4-inch clearance off the finished pad or apron. Gates in the opened position shall not infringe on the traffic aisles and open to at least 180 degrees when secured open. (General Enclosure Requirements - please refer also to article 2; division 2.300 general use standards (g)(2); or sec. 2.302 nonresidential use (d)(3) of the City Unified Development Code).
- c. For enclosures where more than one container will be required, the enclosure design shall be submitted to the department of solid waste management for approval.
- d. Where a concrete block container enclosure is installed, vertical and horizontal steel reinforcement shall be required in accordance with the current city unified development code and the city engineering standards for construction.
- e. Boilards: the rear of the enclosure and corners of the enclosure where the door hinges and are attached shall be protected with bright yellow colored bollards
- f. Gate stops shall be installed to prevent enclosure gates from closing while bin is being cycled. All shall open 180 degrees and the latch rod shall have the same one inch inside diameter receiver as the closed position requires
- g. Accessing the enclosure: when a straight on approach cannot be accomplished to access the trash enclosure, a parallel approach will be utilized and the service will be conflucted by a side load unit; only in the event where front load service must be utilized and a straight approach cannot be achieved a radius of not more than thirty-one and nine tens degree (31.9") shall be used to make the approach into the trash enclosure (see DETAIL 6: TURNING ANGLE REQUIREMENTS). There must be a curb or barricade leading from the existing curb to the bin enclosure so as to prevent parking. All curbs must be on the outside of the trash enclosure. All curbs must be rounded with no square or pointed ends leading to the bin enclosure. This is to prevent tire damage.
- h. Enclosures shall be screened with plant material whenever practical.

P. SOLID WASTE COMPACTORS:

Self-contained waste roll-off compactors may be used to substitute Commercial Front Load and for Side Load Services at a minimum of a 18 yd compactor for every (5) 4 cu. yd. pins. Where in a single commercialized location services exceed more than 10 collection stations; centralized collection utilizing self-contained units shall be utilized upon approval by the Department of Solid Waste Management. Max. Gross weight 10 tons. (Legal street limit).

- a. A concrete pad large enough for the entire unit shall be provided
- b. The concrete ped shall have a minimum six (6) inch curb on three sides and slope to a drain in the ped. The fourth side must be open to allow straight access for collection
- c. The concrete ped drain shall be trapped, frost proof and have a removable "basket" strainer to keep out large solids.
- d. The drain shall be installed in the area of the pad where the leakage is anticipated and the pad shall be sloped toward the drain.
- e. The drain shall be plumbed into the senitary sewage disposal system and shall include an oil/water separator
- f. Cok! running water shall be provided and shall have freeze-proof valves. An interior faucet with attached hose may be utilized. All surfaces shall be easily cleanable.
- g. Odcr neutralizing equipment may be required depending on collection frequency and solid weets composition. If such equipment is deemed necessary by the City, it shall be
- h. All privately owned roll-off compactors must be compatible with City's collection equipment. Customer's responsibilities are, but not limited to:
 - 1. Furnish any specialty parts that may be required to transport loads safely without spillage occurring
 - 2. Compactors shall be accessible and prepared for transport or on-site service (must be removed from compactor mechanism.) 3. When compector requires moving, after the roll-off portion is detached from the compactor, the customer shall furnish an employee to secure the load for
 - transport and to reset the compactor. 4. Compactors shall have flush path of travel for compactor container wheels, no obstacles, metal strips, or obstruction of any kind for path of container wheels.
 - 5. maintenance and upkeep of the compactor is the sole responsibility of the owner.
- 6. Refuse compactor Units: Roll-off compactors with separate charging units (charging units not integral with container) require an area of 15 feet x 85 feet for compactor bin and refuse truck. Compactor units shall not exceed 10 tons when fully loaded, including weight of compactor. Compactor shall be located outside of any building. Minimum of 5 feet clearance space to be allowed from each side of compactor to 35 feet in front of compactor unit.

Q. BIN ENCLOSURE OTHER:

- a. Private Streets of Private Roads: Private streets and/or private roads that require solid waste collection vehicle access must be designed to City Street Standards (i.e. able to witt stand vehicles weighing up to 66,000 lbs).
- Pavers and/or Decorative Stones: The use of decorative pavers and/or stones within designated solid waste collection vehicle access area(s) is not recommended. Demage
 of these meterials and areas will result from the normal anticitated use by solid waste collection vehicles and thus responsibility for all damage is assumed by the property

If the gates with locks are planned to limit access to the enclosure of to the property, cards of keys must be provided to the City. The City can provide container locks and keys upon request. If keys or cards are not provided, then the Applicant must ensure that all secured gates are open at 5:00 a.m. for commercial collection and 7:00 a.m. for residential collection.

SHEET NO. 12



Legend

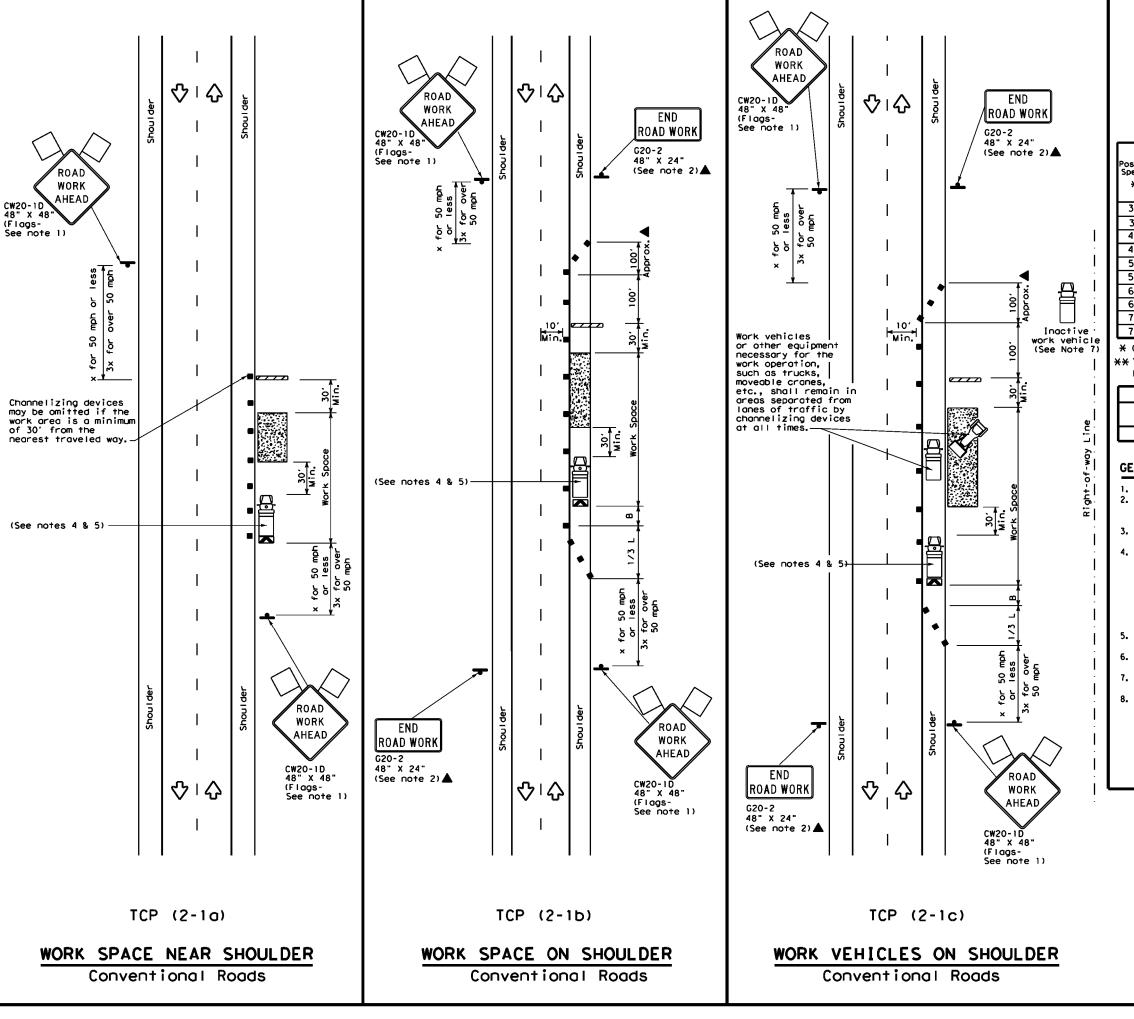


6-4-21 EL TULE RECREATION CENTER WASTE ENCLOSURE CITY MANAGER

JUNE 4, 2021 CREATED BY:

ENGINEERING DEPT - GIS DIVISION SCALE: SHEETC-07.3OF





	LEGEND							
	Type 3 Barricade	• •	Channelizing Devices					
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)					
	Trailer Mounted Flashing Arrow Board	(Portable Changeable Message Sign (PCMS)					
ŀ	Sign	∿	Traffic Flow					
\Diamond	Flag	Ф	Flagger					
	l Water la							

L	⟨\right\	log			Щ-) Flagge	er	
Posted Speed	Formula	Desiroble			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "X"	Suggested Longitudinal Buffer Space
*		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	"В"
30	= WS ²	150′	165'	1801	30'	60′	120'	90'
35	L = WS	2051	2251	2451	35'	70′	160'	120′
40	80	265'	2951	3201	40′	801	240'	155′
45		4501	4951	5401	45′	90′	320′	1951
50		5001	550′	600'	50'	100′	4001	240′
55	L=WS	5501	6051	6601	55′	110′	5001	295′
60	" " "	600'	660'	720'	60′	120'	600,	350′
65		650'	7151	780′	65′	130′	700′	410′
70		700′	770′	840'	70°	140'	800'	475′
75		7501	8251	900'	75′	150'	900,	540′

- * Conventional Roads Only
- ** Toper lengths have been rounded off.

L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

TYPICAL USAGE							
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY			
	✓	✓	√	√			

GENERAL NOTES

- 1. Flags attached to signs where shown, are REQUIRED.
- 2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated in the plans, or for routine maintenance work, when approved by the Engineer
- Stockpiled material should be placed a minimum of 30 feet from
- nearest traveled way.

 4. Shodow Vehicle with TMA and high intensity rotating, flashing, oscillating or strobe lights. A Shodow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect a wider work space. 6. See TCP(5-1) for shoulder work on divided highways, expressways and
- 7. Inactive work vehicles or other equipment should be parked near the
- right-of-way line and not parked on the paved shoulder.

8. CW21-5 "SHOULDER WORK" signs may be used in place of CW20-1D "ROAD WORK AHEAD" signs for shoulder work on conventional roadways.

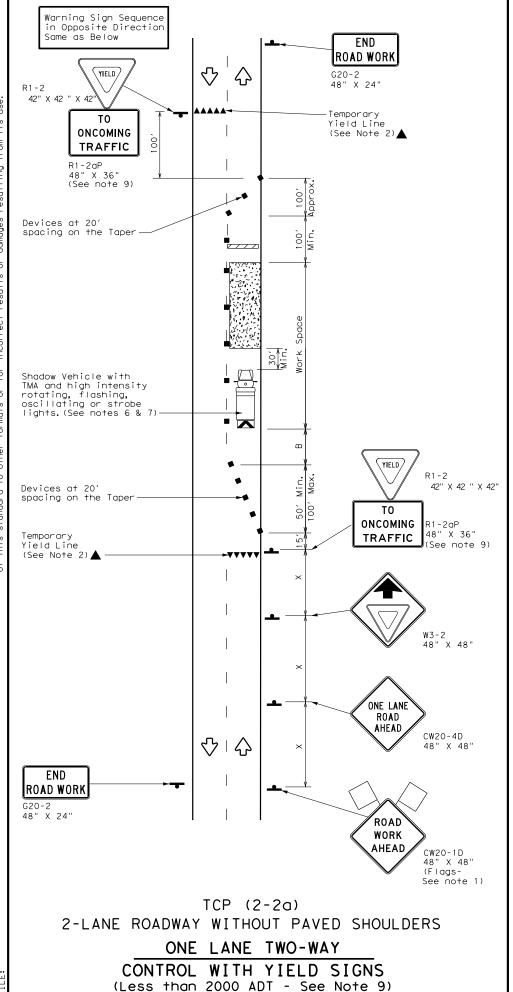
Texas Department of Transportation

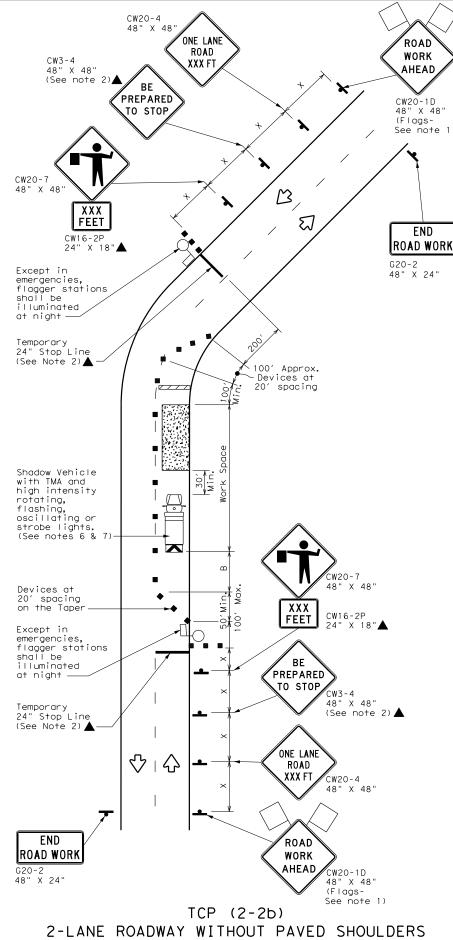
Traffic Operations Division Standard

TRAFFIC CONTROL PLAN CONVENTIONAL ROAD SHOULDER WORK

TCP(2-1)-18

E:	tcp2-1-18.dgn		CN:		CK:	DW:		CK:	
TxD	OT December 1	985	CONT	SECT	JOB		ніс	HWAY	
94	REVISIONS 4-98								
95	2-12		TRIO		COUNTY		\$	HEET N	ю.
97	2-18								





ONE LANE TWO-WAY

CONTROL WITH FLAGGERS

	LEGEND							
V////	Type 3 Barricade		Channelizing Devices					
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)					
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)					
-	Sign	♦	Traffic Flow					
\Diamond	Flag	ПО	Flagger					

Posted Speed	Formula	D	Minimur esirab er Lend **	le	Spacir Channe		Minimum Sign Spacing "X"	Suggested Longitudinal Buffer Space	Stopping Sight Distance
*		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	"B"	
30	2	150′	165′	180′	30′	60′	120′	90′	200′
35	$L = \frac{WS^2}{60}$	205′	225′	245′	35′	70′	160′	120′	250′
40	7 00	265′	295′	320′	40′	80′	240′	155′	305′
45		450′	495′	540′	45′	90′	320′	195′	360′
50		500′	550′	600′	50′	100′	400′	240′	425′
55	L=WS	550′	605′	660′	55′	110′	500′	295′	495′
60	L - W 3	600′	660′	720′	60′	120′	600′	350′	570′
65		650′	715′	780′	65′	130′	700′	410′	645′
70		700′	770′	840′	70′	140′	800′	475′	730′
75		750′	8251	900′	75′	150′	900′	540′	820′

* Conventional Roads Only

 $\frak{X}\frak{X}\frak{Taper}$ lengths have been rounded off.

 $\verb|L=Length| of Taper(FT) W=Width| of Offset(FT) S=Posted Speed(MPH)$

TYPICAL USAGE							
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY			
	_/	_/					

GENERAL NOTES

- 1. Flags attached to signs where shown, are REQUIRED.
- 2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
- The CW3-4 "BE PREPARED TO STOP" sign may be installed after the CW20-4 "ONE LANE ROAD XXX FT" sign, but proper sign spacing shall be maintained.
- 4. Flaggers should use two-way radios or other methods of communication to control traffic.
- 5. Length of work space should be based on the ability of flaggers to communicate.
- 6. A Snadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect a wider work space.

TCP (2-2a)

8. The R1-2 "YIELD" sign traffic control may be used on projects with approaches that have adequate sight distance. For projects in urban areas, work space should be no longer than one half city block. In rural areas, roadways with less than 2000 ADT, work space should be no longer than 400 feet.

9. The R1-2aP "YIELD TO ONCOMING TRAFFIC" sign shall be placed on a support at a 7 foot minimum mounting height.

TCP (2-2b)

- 10. Channelizing devices on the center line may be omitted when a pilot car is leading traffic and approved by the Engineer.
- 11. If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain stopping sight distance to the flagger and a queue of stopped vehicles. (See table above).
- 12. Flaggers should use 24" STOP/SLOW paddles to control traffic. Flags should be limited to emergency situations.



Traffic Operations Division Standard

TRAFFIC CONTROL PLAN
ONE-LANE TWO-WAY
TRAFFIC CONTROL

TCP(2-2)-18

FILE: tcp2-2-18.dgn	DN:		CK:	DW:	CK:
© TxDOT December 1985	CONT	SECT	JOB		HIGHWAY
REVISIONS 8-95 3-03					
1-97 2-12	DIST		COUNTY		SHEET NO.
4-98 2-18					

162

GENERAL NOTES

THIS CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE. WORKMEN. AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES. SHALL NOULDE BUT NOT BE LIMITED TO BRACING SHORING FOR FARTH BANKS FORMS. SCAFFOLDING, PLANKING SAFETY NETS, SUPPORT AND BRACING FOR CRANES, POLES, ETC. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR THE ENGINEER DO NOT INCLUDE INSPECTION OF THE ABOVE AND BELOW ITEMS. ALL CONSTRUCTION AND QUALITY OF MATERIALS SHALL COMPLY WITH THE GOVERNING

BUILDING CODES AND REGULATIONS 3. THE CONTRACTOR SHALL Verify ALL DIMENSIONS, ELEVATIONS, TOLERANCES AND CONDITIONS AT THE JOB SITE BEFORE COMMENCEMENT OF WORK AND SHALL IMMEDIATELY REPORT ANY DISCREPANCIES OR OMISSIONS TO THE ARCHITECT AND ENGINEER IN WRITING ANY OMISSION OR CONFLICT BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS

AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED 4. IN CASE OF CONFLICT; NOTES AND DETAILS ON THE BALANCE OF THE DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. DRAWINGS TAKE PRECEDENCE

OVER SPECIFICATIONS 5. WHERE CONSTRUCTION DETAILS ARE NOT SPECIFICALLY SHOWN OR NOTED FOR ANY PART OF THE WORK, SUCH DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS SHOWN FOR SIMILAR CONDITIONS AND MATERIALS. WHERE SUFFICIENTLY SIMILAR WORK IS NOT SHOWN, THE ENGINEER SHALL BE CONSULTED FOR CLARIFICATION

EACH SUBCONTRACTOR IS CONSIDERED AN EXPERT IN HIS RESPECTIVE FIELD AND SHALL PRIOR TO THE SUBMISSION OF A BID OR PERFORMANCE OF WORK, NOTIFY THE GENERAL CONTRACTOR, ARCHITECT, ENGINEER OR OWNER, IN WRITING OF ANY WORK CALLED OUT ON THE DRAWINGS IN HIS TRADE THAT CANNOT BE GUARANTEED OR PERFORMED AS INDICATED. THE CONTRACTOR SHALL COORDINATE ALL MECHANICAL AND ELECTRICAL EQUIPMENT. AS TO WEIGHTS AND EXACT LOCATIONS, WITH STRUCTURAL SUPPORTS. IN THE EVENT THAT THE PURCHASED EQUIPMENT DEVIATES IN WEIGHT AND LOCATION FROM THOSE INDICATED ON THE PLANS, THE ARCHITECT AND ENGINEER MUST BE NOTIFIED AND APPROVAL OBTAINED PRIOR TO THIS STRUCTURE IS DESIGNED AS A STABLE UNIT AFTER ALL COMPONENTS ARE IN PLACE. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY BRACING AS REQUIRED TO INSURE THE VERTICAL AND LATERAL STABILITY OF THE ENTIRE STRUCTURE, OR ANY PORTION

THEREOF, DURING CONSTRUCTION. 9. NEITHER THE OWNER NOR THE ARCHITECT NOR THE ENGINEER WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND BRACING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS

10. TRADE NAMES AND MANUFACTURERS REFERRED TO ARE FOR QUALITY STANDARDS ONLY. SUBSTITUTIONS WILL BE PERMITTED AS APPROVED BY THE ENGINEER. 11. ANY OPTIONS OR APPROVED SUBSTITUTIONS ARE FOR CONTRACTORS CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES, ADDITIONAL COSTS (INCLUDING REDESIGN BY THE ENGINEER), AND COORDINATION WITH ALL ITEMS THAT THE SUBSTITUTIONS

12. THE ARCHITECT AND ENGINEER ARE TO BE NOTIFIED IN WRITING WHEN CONSTRUCTION AT 13. ANY QUESTIONS RELATED TO INTERPRETATION OR INTENT OF THESE DRAWINGS SHALL BE REFERRED TO THE ENGINEER. 14. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO LOCATE AND PROJECT

15. PIPES, DUCTS, SLEEVES, CHASES, ETC. SHALL NOT BE PLACED IN BEAMS OR WALLS UNLESS SPECIFICALLY SHOWN OR NOTED. NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR PIPES, DUCTS, ETC. UNLESS NOTED CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATION OF ANY ADDITIONAL PIPES, DUCTS, ETC.

ANY EXISTING UNDERGROUND OR CONCEALED CONDUIT, PLUMBING, OR OTHER UTILITIES PRIOR

DESIGN CRITERIA

DESIGN LOADS, STRUCTURAL ANALYSIS AND PREPARATIONS OF STRUCTURAL

	MEMBE	RS ARE BASED UPON THE FOLLOWING		0101	
		KS ARE BASED UPON THE FOLLOWING	CRITERIA:	IBC	2015
1.	CODE:	1.10400		IDC	2013
2.		L LOADS			
		WIND SPEED (V ³ s):			MPH
		EXPOSURE CATEGORY:		С	
		IMPORTANCE FACTOR:		1.15	
	D.	BUILDING CATEGORY		III	
3.	VERTICA	AL LOADS			
•	RO				
		COLLATERAL LOAD:		15	PSF
		DEAD LOAD:	ACTUAL W		
	C.	LIVE LOAD: (REDUCIBLE)	7.0.0	_	PSF
		WIND UPLIFT LOAD (NET):	SEE	TABLE	PSF
		GROUND SNOW LOAD:		0	PSF
		CRANE LOADS:		NONE	
	G.	MECHANICAL UNITS	SEE F	PLANS	
4.	SUBSUE	FACE INFORMATION			
••		PREPARED BY:		MEG	
		PROJECT NO.:	01-19-29222, 01-20)-29138	
		DATE:	November 20, 2019, May 1	8, 2020	
	B.	SHALLOW FOUNDATION			
		MINIMUM FOOTING DEPTH:		24	INCHES
		MINIMUM FOOTING WIDTH:		12	INCHES
		ALLOWABLE BEARING PRESSURE (CO		1700	
		ALLOWABLE BEARING PRESSURE (IS		2100	PSF
		WIRE REINFORCEMENT INSTITUTE (V	√RI) CRITERIA		
		CLIMATIC RATING (Cw)		15	
		EFFECTIVE PLASTICITY INDEX (UNDIS		31	
		EFFECTIVE PLASTICITY INDEX (SITE I	MPROVED SOIL)	24	
		PVR (UNDISTURBED SOIL)			INCH
		PVR (WITH SITE IMPROVEMENT)		1.0	INCH

ALLOWANCE

1. IN ADDITION TO THE MATERIAL SHOWN, THE CONTRACTOR TO PROVIDE ADDITIONAL MATERIAL, FOR USE ON THE PROJECT AS DIRECTED BY THE STRUCTURAL ENGINEER FIELD REPRESENTATIVE. THE ALLOWANCE COST SHALL INCLUDE MATERIAL COST, LABOR COSTS AND PLACEMENT AT THE SITE. 2. REMAINING BALANCE AT THE END OF THE PROJECT SHALL BE RETURNED/CREDITED BACK TO THE OWNER. 3. THE ALLOWANCE SHALL APPEAR ON THE SCHEDULE OF VALUE AS A LINE ITEM.

MATERIAL	ALLC	JWANCE	
CONCRETE REINFORCING STEEL STRUCTURAL STEEL CMU CONCRETE SPALL REPAIR (x 6" DEEP)	3000 5000 0	CU. YD. LBS LBS SQ. FT. SQ. FT.	

SHOP DRAWINGS AND SUBMITTALS

SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED FOR REVIEW TO THE ENGINEER FOR EACH STRUCTURAL BUILDING MATERIAL AS INDICATED IN THE STRUCTURAL GENERAL NOTES AND THE CONTRACT SPECIFICATIONS. SEE THE CONTRACT SPECIFICATIONS FOR SUBMITTAL PROCEDURES AND ADDITIONAL INFORMATION

2. SHOP DRAWINGS SHALL USE DRAFTING LINE WORK AND LETTERING THAT IS CLEARLY LEGIBLE. SHOP DRAWINGS SHALL NOT CONTAIN NO REPRODUCTIONS OF THE CONTRACT DRAWING PLANS OR DETAILS.

SUBMIT STRUCTURAL SHOP DRAWINGS IN PDF FORMAT SHOP DRAWINGS SHALL NOT SHOW MATERIALS FOR MORE THAN ONE LEVEL OF THE

5. SHOP DRAWINGS SHALL SHOW CLEAR AND COMPLETE INFORMATION FOR THE FABRICATION (DETAIL SHEETS AND/OR MATERIAL LISTS) AND INSTALLATION ALLOW A MINIMUM OF (2) WEEKS FOR REVIEW OF EACH SET OF SHOP DRAWINGS. CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS SUBMITTED BY THE SUB-CONTRACTOR

AND COORDINATE SHOP DRAWINGS WITH ALL OTHER TRADING. CONTRACTOR SHALL ANSWER ALL QUESTIONS OR CLARIFICATIONS BY THE SUB-CONTRACTOR BEFORE SUBMITTING TO ENGINEER FOR REVIEW. ANY QUESTIONS THAT THE CONTRACTOR CANNOT ANSWER WITH THE INFORMATION ON THE DRAWINGS SHALL CLEARLY BE MARKED FOR THE ENGINEER FOR REVIEW.

CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS, SEE NOTE NUMBER 3 UNDER GENERAL NOTES. REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS FOR GENERAL CONFORMANCE TO THE STRUCTURAL DRAWINGS. REVIEW OF THE SHOP DRAWINGS BY THE ENGINEER

DOES NOT RELIEF THE CONTRACTOR FOR ANY ERRORS IN DIMENSIONS OR MATERIALS INDICATED ON THE SHOP DRAWINGS. IF THERE IS ANY DISCREPANCY BETWEEN THE STRUCTURAL DRAWINGS AND SHOP

DRAWINGS, THE INFORMATION SHOWN ON THE STRUCTURAL DRAWINGS GOVERN. INFORMATION THAT IS NOT INDICATED ON THE SHOP DRAWINGS SHALL BE OBTAINED FROM THE STRUCTURAL DRAWINGS.

ITEM	REQUIRED
A. CONCRETE MIX DESIGN	Х
B. CURING COMPOUND FOR CONCRETE	Х
C. REINFORCING STEEL	Χ
D. STRUCTURAL STEEL	X
E. STEEL JOIST	X
F. METAL DECKING (INDICATE LAYOUT AND TYPES OF DECK PANELS, ANCHORAGE DETAILS, REINFORCING CHANNELS, PANS, DECK OPEN SPECIAL JOINTING, ACCESSORIES, AND ATTACHMENTS TO OTHER CONSTRUCTION.)	IINGS, X
G. PRE-MANUFACTURED METAL BUILDING (INCLUDE CALC'S & REACTIO	NS) X
H. PRE-MANUFACTURED WOOD TRUSSES	

REINFORCING STEEL

BAR REINFORCEMENT SHALL CONFORM TO THE FOLLOWING GRADES OF ASTM A615, INCLUDING SUPPLEMENT S1. GRADE 40 - #3 AND SMALLER GRADE 60 - #4 AND LARGER DETAILS OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH CHAPTER 7 OF THE

AMERICAN CONCRETE INSTITUTE (ACI) 318, UNLESS OTHERWISE NOTED. VERTICAL REINFORCEMENT SHALL BE TIED OR OTHERWISE FIXED IN POSITION AT THE TOP AND BOTTOM AND AT INTERMEDIATE LOCATIONS, SPACED NOT GREATER THAN 192 BAR

DIAMETERS NOR FOUR (4) FEET ON CENTER. . WELDED STEEL WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A185 LAPS OF WELDED STEEL WIRE FABRIC AT SPLICES SHALL BE NOT LESS THAN 12 INCHES.

WALLS, PILASTER, COLUMNS SHALL BE DOWELED TO THE SUPPORTING FOOTINGS WITH REINFORCEMENT OF THE SAME SIZE, GRADE AND AT THE SAME SPACING AS THE VERTICAL REINFORCEMENT IN THE WALLS. PILASTER. OR COLUMNS BAR SUPPORTS SHALL BE PROVIDED IN ACCORDANCE WITH THE PROVISIONS OF "BAR

SUPPORT SPECIFICATIONS" AS CONTAINED IN THE LATEST EDITION OF THE "MANUAL OF STANDARD PRACTICE" BY THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI) 8. REINFORCING STEEL DETAILING, BENDING AND PLACING SHALL BE IN ACCORDANCE WITH

THE CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE", LATEST 9. ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE BEFORE PLACING CONCRETE OR GROUT. PROVIDE CONCRETE OR MASONRY CHAIRS AT 4'-0" O.C. MAX. (PLASTIC CHAIRS NOT

10. PROVIDE CORNER BARS TOP AND BOTTOM AT ALL BEAM CORNERS AND DEAD END BEAM INTERSECTIONS. BARS TO EQUAL SIZE AND QUANTITY OF THE NOTED BEAM STEEL. BARS

SHALL LAP BEAM REINFORCEMENT 40 BAR DIAMETERS 11. BARS DETAILED AS CONTINUOUS SHALL BE LAPPED 40 BAR DIAMETERS AT SPLICES. 12. EXTEND SLAB REINFORCING STEEL, PERPENDICULAR TO BEAM, TO THE TOP OUTSIDE

REINFORCING BAR OF PERIMETER BEAMS. START THE SLAB REINFORCING STEEL, PARALLEL TO BEAM, NOT MORE THAN 6" FROM THE TOP INSIDE REINFORCING BAR OF PERIMETER 13. PROVIDE #4 "Z" BARS AT 12" ON CENTER WHERE THE SLAB STEPS DOWN MORE THAN 3". THE

"Z" BARS SHALL LAP THE MAIN SLAB REINFORCING STEEL 40 BAR DIAMETERS. 14. ALL CONDUIT OR PLUMBING LINES IN SLAB SHALL BE PLACED BELOW SLAB REINFORCING ALL CONDUIT TO BE NO GREATER THAN 1" DIAMETER AND TO BE PLACED IN CENTER OF

SLAB. NO PLUMBING LINES GREATER THAN 1 INCH ALLOWED IN THE SLAB.

16. WELDING OF REINFORCING STEEL, IF PERMITTED BY THE STRUCTURAL ENGINEER, SHALL BE PERFORMED IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE REINFORCING STEEL" ON THE AMERICAN WELDING SOCIETY, AWS D1.4-96 AS INCORPORATED IN CBC CHAPTER No. 19, AND BY CERTIFIED WELDERS QUALIFIED USING PROCEDURES CONTAINED THEREIN F70XX FLECTRODES SHALL BE USED IN WELDING GRADE 60 REINFORCEMENT REINFORCEMENT SHALL NOT BE WELDED UNTIL A CHEMICAL ANALYSIS SUFFICIENT TO DETERMINE THE CARBON EQUIVALENT (C.E.) IS PERFORMED. THE C.E. OF REINFORCING STEEL SHALL BE CALCULATED FORM THE CHEMICAL COMPOSITION AS SHOWN IN THE MILI TEST REPORT. IF MILL TEST REPORTS ARE NOT AVAILABLE, A CHEMICAL ANALYSIS SHALL BE MADE ON REINFORCEMENT REPRESENTATIVE OF THOSE TO BE WELDED. THE C.E. SHALL NOT EXCEED 0.55 AS CALCULATED PER CBC CHAPTER 19. A COPY OF THE MILL TEST OF REINFORCING STEEL IN CONCRETE MEMBERS. (SPECIAL INSPECTION IS REQUIRED FOR ALL FIFI D WFI DING)

17. CONTRACTOR SHALL SUBMIT REINFORCING STEEL SHOP DRAWINGS FOR REVIEW BEFORE FABRICATION AND INSTALLATION.

l	8. CONCRETE COVER FOR REINFORGING AS FOLLOWS:		
	EXPOSURE CONDITION	MINIMUM COVER	TOLERANCE
	DRILLED PIERS, FOOTINGS AND OTHER PRINCIPAL STRUCTURAL MEMBERS IN WHICH CONCRETE IS DEPOSITED AGAINST GROUND: WHERE CONCRETE SURFACES, AFTER REMOVAL OF FORMS,	3"	3/8"
	ARE EXPOSED TO WEATHER OR GROUND: FOR BARS 5/8" IN DIAMETER		1/4"
	FOR BARS 5/8" OR LESS IN DIAMETER	1 1/2"	1/4"
	WHERE SURFACES ARE NOT DIRECTLY EXPOSED TO WEATHER OR GROUND:		
	FOR SLAB ON GRADE (FROM TOP OF SLAB)	1 1/2"	1/4"
	FOR BEAMS, COLUMNS	1 1/2"	1/4"
	FOR JOISTS AND SLABS	1"	1/8"

20. LAPS AT BAR SPLICES, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:

MASONRY - GRADE 60: LAP 50 DIA. (30" MIN.) GRADE 40: LAP 48 DIA. (24" MIN.) CONCRETE - LAP PER SCHEDULE BELOW BAR SPLICE LAP LENGTH IN CONCRETE f'c = 2000 PSI 5000 PSI SIZE 3000 PSI 4000 PSI FOR WELDED WIRE FABRIC: SPACING OF WIRE PLUS 12".

SPECIAL NOTES TO OWNER

1. UNDER NORMAL CONDITIONS, AND FOR CONVENTIONAL BUILDINGS SUCH AS THE SUBJECT MATTER, REINFORCED CONCRETE AND MASONRY DEVELOP CRACKS. THE CRACKS ARE DUE TO INHERENT SHRINKAGE OF CONCRETE, CREEP AND RESTRAINING EFFECTS OF VERTICAL AND OTHER STRUCTURAL FLEMENTS TO WHICH THE BEAMS/SLABS ARE TIED. 2. THE CRACKS FORMED ARE NORMALLY COSMETIC. THE SLAB MAINTAINS ITS SERVICEABILITY AND STRENGTH REQUIREMENTS. IT IS EMPHASIZED THAT ALTHOUGH SPECIAL EFFORT IS MADE TO REDUCE THE POTENTIAL CAUSES AND NUMBER OF SUCH CRACKS, IT IS NOT PRACTICAL TO PROVIDE TOTAL ARTICULATION BETWEEN THE FLOOR SYSTEM AND ITS SUPPORTS AND THEREBY ACHIEVE COMPLETE INHIBITION OF ALL CRACKS. 3. MOST SUCH CRACKS DEVELOP OVER THE FIRST THREE YEARS OF THE LIFE OF THE FLOOR SYSTEM. CRACKS WHICH ARE WIDER THAN 0.01 INCH MAY NEED TO BE PRESSURE EPOXIED.

REFER TO THE NOTES UNDER "ALLOWANCES". 4. THE OBJECT OF THE JOINTS PROVIDED IS TO ALLOW MOVEMENT. MOVEMENTS DUE TO CREEP AND SHRINKAGE MAY BE NOTICEABLE AT JOINTS UP TO TWO YEARS AFTER CONSTRUCTION, BEYOND WHICH MOVEMENTS DUE TO VARIATIONS IN TEMPERATURE WILL PERSIST.

STRUCTURAL STEEL

MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE LATEST EDITION OF THE AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.

STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING ASTM DESIGNATIONS: MATERIAL STRENGTH DESIGNATION ANCHOR BOL Fy=36 ksi PLATES Fy=36 ksi ANGLES Fy=36 ksi A36 **CHANNELS** Fy=36 ksi WIDE FLANGE SHAPES Fy=50 ksi STEEL PIPE A53 GRADE B Fy=35 ksi SQUARE & RECT. STEEL TUBES (HSS) A500 GRADE B Fv=46 ksi **ROUND TUBES (HSS)** 500 GRADE B _Fy=42 ksi_

ALL STRUCTURAL STEEL SHALL BE FABRICATED, ERECTED, AND PAINTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AS AMENDED TO DATE AND THE CODE OF STANDARD PRACTICE. LATEST EDITION AS ADOPTED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AMENDED AS FOLLOWS:

SECTION 4.2.1, DELETE FIRST TWO SENTENCES. SECTION 7., ALL REFERENCE TO OWNER SHALL BE CHANGED TO GENERAL CONTRACTOR. SECTION 7.9.3, THE CONTRACTOR SHALL PROVIDE THE SEQUENCE AND SCHEDULE OF PLACEMENT OF NON-SELF SUPPORTING STEEL FRAMES. SECTION 7.9.4, THE CONTRACTOR TO DESIGN SHORES, JACKS OR LOADS.

WELDING SHALL BE DONE IN ACCORDANCE WITH THE STANDARD CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION AS PUBLISHED BY THE AMERICAN WELDING SOCIETY, EXCEPT THAT ALL WELDING SHALL BE DONE BY THE ELECTRIC ARC PROCESS. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS AND SHALL CONFORM

DETAILED AND OR SCHEDULED CONNECTIONS HAVE BEEN DESIGNED BY STRUCTURAL ENGINEER. ANY CONNECTION NOT DETAILED OR SCHEDULED OR ALTERED FOR FABRICATION PURPOSES SHALL BE SIZED AND DETAILED BY FABRICATOR AND SHALL BE MARKED FOR ENGINEER'S VERIFICATION. FABRICATOR SIZED AND DETAILED CONNECTIONS SHALL SUPPORT ONE HALF THE TOTAL UNIFORM LOAD CAPACITY SHOWN IN THE TABLES OF UNIFORM CONSTANTS, PART 2 OF THE AISC MANUAL OF STEEL CONSTRUCTION FOR THE GIVEN BEAM, SPAN AND GRADE OF STEEL SPECIFIED. THE EFFECT OF ANY CONCENTRATION LOADS MUST BE TAKEN INTO ACCOUNT. SEE ARCHITECTURAL PLANS FOR MISCELLANEOUS STEEL ITEMS NOT INDICATED ON STRUCTURAL DRAWINGS. STEEL ITEMS SHOWN ON ARCHITECTURAL DRAWINGS AND NOT SPECIFIED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGN BY THE STEEL FABRICATOR. SEE DESIGN CRITERIA FOR LOADING. ALL WELDED CONNECTIONS SHALL BE MADE USING 1/4" FILLET WELD. U.N.O.

BOLTS, ASTM A325, BEARING TYPE CONNECTION w/ WASHERS ASTM F436, U.N.O. ON DESIGN DRAWINGS. SPECIAL INSPECTION REQUIRED FOR ALL HIGH STRENGTH BOLTING. ALL NUTS SHALL BE PER ASTM A563 ALL CONNECTION PLATES AND STIFFENERS SHALL BE MADE WITH 1/4" THICK PLATES,

ALL BOLTED CONNECTIONS SHALL BE MADE USING 3/4" DIAMETER HIGH STRENGTH

UNLESS OTHERWISE NOTED ON PLANS. 10. ALL STEEL (INCLUDING BOLTS) EXPOSED TO THE WEATHER SHALL BE HOT DIPPED GALVANIZED. (INCLUDES STEEL THAT IS ONLY COVERED WITH PLASTER OR STUCCO). SEE ARCHITECTURAL PLANS IF STRICTER REQUIREMENTS ARE REQUIRED

11. ALL EXPOSED STEEL SHALL FOLLOW SECTION 10 OF THE CODE OF STANDARD PRACTICE OF AISC. SECTION 10 OF THE CODE ADDRESSES ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) CONNECTIONS SHALL BE PER HOLLOW STRUCTURAL SECTIONS, CONNECTION MANUAL BY AISC

WHERE STEEL MEMBER PASS THROUGH CMU WALLS, PROVIDE HALF INCH GAP BETWEEN THE CMU AND THE STEEL MEMBER. PROVIDE ELASTOMERIC MATERIAL BETWEEN THE THE STEEL MEMBER AND CMU WALL

ALL BEAMS NOT SHOWN SHALL BE W14x26. ALL COLUMNS NOT SHOWN SHALL BE

STEEL SHOP SHALL BE AISC CERTIFIED HOLES FOR BOLTS IN STRUCTURAL STEEL SHALL BE DRILLED OR PUNCHED. BURNING OF HOLES SHALL NOT BE PERMITTED. UNLESS NOTED OTHERWISE, HOLES SHALL BE STANDARD SIZE 1/16 INCH LARGER THAN THE BOLT.

ALL STRUCTURAL STEEL SHAPES SHALL BE PRIMED WITH A RUST RESISTANT PRIMER BEFORE SHIPMENT TO THE PROJECT SITE. PRIMER SHALL NOT BE APPLIED TO THE IMMEDIATE AREA OF STEEL INTENDED TO RECEIVE SLIP CRITICAL BOLTED CONNECTIONS HIGH STRENGTH BOLTS INSTALLATION SHALL BE CONTINUOUSLY INSPECTED BY A SPECIAL INSPECTOR. FOLLOWING ARE REQUIREMENTS OF THE SPECIAL INSPECTOR:

A. HE SHALL VERIFY THE MILL CERTIFICATES FOR MATERIAL B. HE SHALL VERIFY THAT THE MATERIAL USED ARE PROPERLY STORED AND PREPARED FOR USE.

C. HE SHALL VERIFY THAT CONSTRUCTION DETAILS, PROCEDURES, TOOL CALIBRATIONS WORKMANSHIP ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND D. FOR SNUG-TIGHT CONNECTIONS, HE SHALL VERIFY THAT THE PLIES OF THE

CONNECTED ELEMENTS HAVE BEEN BROUGHT INTO SNUG CONTACT WITH EACH E. FOR SLIP-TIGHT CONNECTIONS, HE SHALL VERIFY THE PRETENSION METHOD

SELECTED BY THE CONTRACTOR HAS INDUCED THE REQUIRED M F. A CERTIFICATE OF INSPECTION SHALL BE FURNISHED BY THE SPECIAL INSPECTOR TO THE BUILDING OFFICIAL PRIOR TO HIS INSPECTION AND TO THE ARCHITECT AND FNGINFER

WELDING IN THE FIELD SHALL BE CONTINUOUSLY INSPECTED, BY A SPECIAL INSPECTOR FOLLOWING ARE REQUIREMENTS OF THE SPECIAL INSPECTOR: A. HE SHALL VERIFY THAT THE MATERIAL USED ARE PROPERLY STORED AND PREPARED FOR USE.

B. HE SHALL VERIFY THE WELDER'S QUALIFICATIONS.

C. HE SHALL VERIFY THAT CONSTRUCTION DETAILS, PROCEDURES AND WORKMANSHIP ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND BUILDING CODE. D. A CERTIFICATE OF INSPECTION SHALL BE FURNISHED BY THE SPECIAL INSPECTOR TO THE BUILDING OFFICIAL PRIOR TO HIS INSPECTION AND TO THE ARCHITECT AND FNGINFER

20. ALL NON SHRINK GROUT FOR LEVELING OF BASE PLATES SHALL HAVE A MINIMUM 5000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. GROUT SHALL COMPLY WITH CORPS OF ENGINEERS SPECIFICATION CRD-C 621.

Drawing List		
Sheet Number	Sheet Name	
0404	OIN-4	
S101	General Notes	
S102	General Notes	
S103	General Notes	
S201	Foundation Plan	
S202	CMU Layout	
S401	Typical Concrete Details	
S402	Foundation Details	
S404	Typical CMU Details	
S405	Typical Framing Details	

CAST-IN-PLACE CONCRETE

VERIFY ALL DIMENSIONS. COORDINATE WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT AND/OR ENGINEER OF ANY DISCREPANCIES. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE SPECIFICATIONS, ACI #301 LATEST EDITION. DRILLED PIERS SHALL

COMPLY WITH ACI 336.1 AND ACI 336.3R, LATEST EDITIONS ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS, ACCESSORIES UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH THE ACI "MANUAL OF

STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE", ACI #315 LATEST EDITION THE MINIMUM 28 DAYS CYLINDER STRENGTH SHALL BE AS FOLLOWS: SIZE OF LARGE WATER/CEMENT LOCATION

AT 28 DAYS SLUMP AGGREGATE RATIO **FOUNDATIONS** 0.53 3000 PSI 1 1/2" SLAB ON GRADE 0.53 GRADE BEAMS 3000 PSI 3000 PSI 0.53 NO HORIZONTAL CONSTRUCTION JOINTS WILL BE PERMITTED IN SLABS OR BEAMS.

VERTICAL CONSTRUCTION JOINTS IN SLABS ARE TO BE AS SHOWN ON PLANS OR AS APPROVED BY ENGINEER.

ALL OPENINGS IN SLAB (FOR PIPING, DRAINS, ETC.) SHALL BE SEALED WITH 1/2 SEALANT '2A' (SELF-LEVELING 2-PART POLYURETHANE). UTILITIES THAT PROJECT THROUGH SLAB FLOORS SHOULD BE DESIGNED WITH EITHER

SOME DEGREE OF FLEXIBILITY OR WITH SLEEVES IN ORDER TO PREVENT DAMAGE TO THESE LINE SHOULD VERTICAL MOVEMENT OCCUR BACKFILL AROUND PERIMETER TO PROVIDE POSITIVE DRAINAGE AWAY FROM SLAB.

FLOOR TOLERANCES F-NUMBER SYSTEM MINIMUM LOCAL VALUE FLATNESS (F LEVELNESS (F) IN ALL INSTANCES MINIMUM SLAB THICKNESS SHALL BE OBTAINED. COORDINATE SLAB FINISHES WITH ARCHITECTURAL PLANS.

ANCHOR BOLTS, DOWELS, INSERTS, ETC. SHALL BE SECURELY TIED IN PLACE PRIOR TO PLACING CONCRETE

REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ALL MOLDS. GROOVES, REGLETS, ORNAMENTAL CLIPS, PIPES, CONDUITS, INSERTS, ETC. TO BE CAST IN CONCRETE. PROVIDE OVERSIZED SLEEVES FOR PLUMBING AND ELECTRICAL CONDUITS AND PIPES. NO PIPES OR DUCTS SHALL BE PLACED IN CONCRETE, FOOTINGS, OR SLAB UNLESS SPECIFICALLY DETAILED IN THESE PLANS, OR AS DIRECTED BY THE ENGINEER.

MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED 13. CONCRETE TESTING SHALL BE ONE SET OF CYLINDERS FOR EVERY 50 CUBIC YARDS

14. OR PORTION THEREOF FOR EACH TYPE OF CONCRETE POURED ON ANY GIVEN DAY. ONE SET CONSISTS OF 2 CYLINDERS TESTED FOR COMPRESSION AT 7 DAYS AND 2 CYLINDERS AT 28 DAYS. 15. VAPOR RETARDANT

A. VAPOR RETARDANT (UNDER SLAB): SHALL CONFORM TO ASTM E1745, CLASS C OR BETTER AND SHALL HAVE A MINIMUM WATER VAPOR PERMEANCE OF 0.044 PERMS WHEN TESTED IN ACCORDANCE WITH ASTM E96. VAPOR RETARDANT SHALL BE NO LESS THAN 15 MILS THICK.

APPROVED PRODUCTS A. STEGO WRAP (15 MIL). BY STEGO INDUSTIES LLC. (887) 464-7834. B. HUSKY YELLOW GUARD (15 MIL) C. OR APPROVED EQUAL BEFORE BIDDING PER SECTION 01600

A. LAY SHEETS SMOOTHLY, STRETCH AND WEIGHT EDGES, LAP JOINTS TWELVE (12) INCHES AND SEAL WITH TAPE AS SPECIFIED BY VAPOR RETARDANT MANUFACTURER. TURN BARRIER UP SIX 6 INCHES AT WALLS AND AT ALL PIPES, ABUTMENTS, ETC. TAPE AND SEAL AT PENETRATIONS AND AT EDGES.

B. AT GRADE BEAMS, EXTEND VAPOR RETARDANT DOWN SIDES OF BEAM TRENCHES AND ALONG BOTTOM OF FOOTING EXCAVATIONS, SECURE TO SIDES OF TRENCH.

A. PATCH ALL PUNCTURES WITH A MINIMUM OVERLAP OF 6" IN ALL DIRECTIONS AND TAPE AROUND ENTIRE PERIMETER OF REPAIR.

PREINSTALLATION CONFERENCE:

AT LEAST 30 DAYS PRIOR TO THE START OF THE CONCRETE SLAB CONSTRUCTION SCHEDULE, THE CONTRACTOR SHALL CONDUCT A MEETING TO REVIEW THE PROPOSED MIX DESIGNS AND TO DISCUSS THE REQUIRED METHODS AND PROCEDURES TO ACHIEVE THE REQUIRED CONCRETE CONSTRUCTION. THE CONTRACTOR SHALL SEND A PRE-CONCRETE CONFERENCE AGENDA TO ALL ATTENDEES 20 DAYS PRIOR TO THE SCHEDULED DATE OF THE CONFERENCE.

THE CONTRACTOR SHALL REQUIRE RESPONSIBLE REPRESENTATIVES OF EVERY PARTY CONCERNED WITH THE CONCRETE WORK TO ATTEND THE CONFERENCE, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: A) CONTRACTOR'S SUPERINTENDENT

B) LABORATORY RESPONSIBLE FOR CONCRETE MIXES AND/ OR FIELD QUALITY

CONTROL C) READY-MIX CONCRETE PRODUCE D) CONCRETE SUBCONTRACTOR

E) ADMIXTURE MANUFACTURER(S) F) LIQUID DENSIFIER AND SEALER MANUFACTURER G) LIQUID DENSIFIER AND SEALER APPLICATION

H) JOINT FILLING APPLICATOR 3. MINUTES OF THE MEETING SHALL BE RECORDED, TYPED AND PRINTED BY THE CONTRACTOR AND DISTRIBUTED BY HIM TO ALL CONCERNED PARTIES, INCLUDING THE OWNER'S REPRESENTATIVE, THE ARCHITECT, AND THE STRUCTURAL ENGINEER WITHIN FIVE DAYS OF THE MEETING.

CONCRETE SUBCONTRACTOR QUALIFICATION: THE CONCRETE SUBCONTRACTOR SHALL INCLUDE IN THEIR BID PACKAGE TO THE CONTRACTOR, SUFFICIENT DATA THAT CLEARLY INDICATES THE CONCRETE CONTRACTOR'S ABILITY TO SUCCESSFULLY PERFORM THE WORK AND TO ACHIEVE THE FLOOR SLAB TOLERANCES SPECIFIED IN THIS SECTION. THE CONCRETE SUBCONTRACTOR'S TEAM SHALL HAVE PARTICIPATED IN THE MAJORITY OF THESE PROJECTS, AND THAT TEAM SHALL REMAIN THE SAME THROUGH THE DURATION OF THIS PROJECT. THE CONCRETE PLANT SHALL BE LOCATED WITHIN 50 MILES OF THE PROJECT SITE AND BE A CONTINUOUS OPERATING PLANT.

CONCRETE MATERIAL

CEMENT: TEXAS LEHIGH ASTM C 150, TYPE I. USE ONE BRAND OF CEMENT THROUGHOUT THE PROJECT; OR APPROVED EQUAL BEFORE BIDDING PER SECTION 01600. COARSE AND FINE AGGREGATES: ASTM C33. COMBINED AGGREGATE GRADATION FOR SLABS ON GRADE AND OTHER DESIGNATED CONCRETE SHALL BE 8% - 18% FOR LARGE TOP AGGREGATES (1 1/2") OR 8% - 22% FOR SMALLER TOP SIZE

AGGREGATES (1" OR 3/4") RETAINED ON EACH SIEVE BELOW THE TOP SIZE AND ABOVE THE NO. 100 SIEVE. SLABS ON GRADE SHALL HAVE A MAXIMUM AGGREGATE SIZE OF 1-1/2" FOOTINGS AND PIERS 1" AND BEAMS 3/4". WATER: COMPLYING WITH ASTM C 94.

4. ALL CONCRETE SHALL CONTAIN "POZZOLITH" ADMIX AS PER MANUFACTURER'S SPECIFICATIONS, IN ACCORDANCE WITH ASTM C494.

AIR-ENTRAINING ADMIXTURES: SHALL CONFORM TO ASTM C-260. ADMIXTURE MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION THAT THE AIR-ENTRAINING ADMIXTURE IS COMPATIBLE WITH OTHER REQUIRED ADMIXTURES. ALL EXTERIOR SLABS SHALL BE AIR-ENTRAINED (4% - 6%). ACCEPTABLE PRODUCTS: EUCLID CHEMICAL AEA-92 AND AIRMIX 200, MASTER BUILDERS MICROAIR, W.R. GRACE DARAVAIR 1000 AND DAREX-11.

NOTE: AIR-ENTRAINING ADMIXTURE SHALL NOT BE USED ON INTERIOR CONCRETE. 2. WATER-REDUCING ADMIXTURE: SHALL CONFORM TO ASTM C494, TYPE A AND CONTAIN NOT MORE THAN 0.05% CHLORIDE IONS. ACCEPTABLE PRODUCTS: EUCLID CHEMICAL WR-89 AND WR-91, MASTER BUILDERS 200N AND 322N, W.R. GRACE WRDA 36 AND WRDA 64

3. WATER REDUCING, RETARDING ADMIXTURE: SHALL CONFORM TO ASTM C494, TYPE D, AND CONTAIN NOT MORE THAN 0.05% CHLORIDE IONS. ACCEPTABLE PRODUCTS: EUCLID CHEMICAL RETARDER 75, MASTER BUILDERS POZZOLITH R, W.R. GRACE DARATARD 17.

4. HIGH RANGE WATER-REDUCING ADMIXTURE (SUPERPLASTICIZER): SHALL CONFORM TO ASTM C494, TYPE F OR TYPE G AND CONTAIN NOT MORE THAN 0.05% CHLORIDE IONS. ACCEPTABLE PRODUCTS: EUCLID CHEMICAL EUCON 37, MASTER BUILDERS REOBUILD 1000 W.R. GRACE DARACEM - 1000. 5. WATER-REDUCING, NON-CORROSIVE ACCELERATING ADMIXTURE: SHALL CONFORM TO ASTM C494, TYPE C OR E, AND CONTAIN NOT MORE CHLORIDE IONS THAN ARE

PRESENT IN MUNICIPAL DRINKING WATER. THE ADMIXTURE MANUFACTURER MUST HAVE LONG-TERM, NON-CORROSIVE TEST DATA FROM AN INDEPENDENT TESTING LABORATORY (OF AT LEAST A YEAR'S DURATION) USING AN ACCEPTABLE ACCELERATED CORROSION TEST METHOD SUCH AS THAT USING ELECTRICAL POTENTIAL MEASURES. ACCEPTABLE PRODUCTS: EUCLID CHEMICAL ACCELGUARD 80/90 AND ACCELGUARD NCA, MASTER BUILDERS NC534 AND POZZUTEC 20, W.R. GRACE POLARSET. 6. PROHIBITED ADMIXTURES:

a.) CALCIUM CHLORIDE OR ADMIXTURES CONTAINING MORE THAN 0.05% CHLORIDE IONS ARE NOT PERMITTED.

b.) FLYASH; A MAXIMUM OF 20% AS CEMENT REPLACEMENT ALLOWED

EVAPORATION RETARDER WATERBORNE, MONOMOLECULAR FILM FORMING, MANUFACTURED FOR APPLICATION TO FRESH CONCRETE.

a) ACCEPTABLE PRODUCTS: "EUCOBAR" BY THE EUCLID CHEMICAL COMPANY - CONTACT: PHIL BRANDT

CURING MATERIALS

EXTERIOR CURING: ALL EXTERIOR CONCRETE SLABS SHALL BE CURED USING A LIQUID MEMBRANE-FORMING CURING COMPOUND. THE LIQUID MEMBRANE-FORMING CURING COMPOUND SHALL MEET THE REQUIREMENTS OF ASTM C 1315 WITH A MAXIMUM V.O.C. CONTENT OF 700 G/L. a.) ACCEPTABLE PRODUCTS:

"SUPER REZ SEAL" BY EUCLID CHEMICAL COMPANY - CONTACT PHIL BRANDT (877) 438-3826

INTERIOR CURING: ALL INTERIOR CONCRETE SLABS SHALL BE CURED USING A REDUCED ODOR, DISSIPATING LIQUID MEMBRANE FORMING CURING COMPOUND THAT IS FORMULATED FROM HYDROCARBON RESINS. THE DISSIPATING LIQUID MEMBRANE FORMING CURING COMPOUND SHALL MEET THE REQUIREMENTS OF ASTM C-309 AND V.O.C. CONTENTS IN ACCORDANCE TO EPA 40 CFR, PART 59, TABLE I, SUBPART D FOR CONCRETE CURING COMPOUNDS WITH A MAXIMUM V.O.C. CONTENT OF 350 G/L. APPLY AT 400 S.F./GALLON. a.) ACCEPTABLE PRODUCTS:

"KUREZ DR VOX" BY THE EUCLID CHEMICAL COMPANY - CONTACT PHIL BRANDT (877) 438-3826 ALL CONCRETE SLABS SHALL ALSO BE MAINTAINED MOIST FOR 7 DAYS

COMPLY WITH ACI 301 REQUIREMENTS FOR CONCRETE MIXTURE, U.N.O. PREPARE DESIGN MIXES SIGNED AND SEALED BY A PROFESSIONAL ENGINEER. PROPORTIONED ACCORDING TO ACI 301, FOR NORMAL WEIGHT CONCRETE DETERMINED BY EITHER LABORATORY TRIAL MIX OR FIELD TEST DATA AS FOLLOWS: CONCRETE MATERIALS INCLUDED IN THE MIX DESIGN SHALL BE THE SAME MATERIALS PROVIDED TO THE PROJECT, AND SHALL BE PREPARED BY AN INDEPENDENT TESTING LABORATORY APPROVED BY THE OWNER. THE LABORATORY MIX DESIGN SHALL NOT EXCEED THE DESIRED JOB STRENGTH OF CONCRETE BY 1,200 PSI. FOUR COPIES

OF THE MIX DESIGN SHALL BE SUBMITTED TO THE OWNER BEFORE CONCRETE WORK

SLUMP: CONCRETE CONTAINING HRWR SHALL HAVE A MAXIMUM SLUMP OF 8" (200MM). ALL OTHER CONCRETE SHALL NOT EXCEED 4 INCHES (100 MM) UNLESS OTHERWISE

INDICATED ON THE DRAWINGS ADJUSTMENT TO CONCRETE MIXES: MIX DESIGN ADJUSTMENTS MAY BE REQUESTED BY CONTRACTOR WHEN CHARACTERISTICS OF MATERIALS, JOB CONDITIONS, WEATHER, TEST RESULTS OR OTHER CIRCUMSTANCES WARRANT, AT NO ADDITIONAL COST TO OWNER AND AS ACCEPTED BY OWNER. LABORATORY TEST DATA FOR REVISED MIX DESIGN AND STRENGTH RESULTS MUST BE SUBMITTED TO AND ACCEPTED BY OWNER BEFORE USING IN WORK. BOTH THE CONCRETE TESTING AND INSPECTION AGENCY AND THE CONCRETE CONTRACTOR SHALL SATISFY THEMSELVES THAT THE CONCRETE MIX DESIGN WILL PRODUCE A CONCRETE WHICH WILL MEET THE SPECIFICATIONS FOR THIS PROJECT. IN ADDITION, THE CONTRACTOR AND CONCRETE FINISHER SHALL VERIFY THAT THE WORKABILITY, FINISHABILITY AND SETTING TIMES ARE APPROPRIATE FOR SLAB INSTALLATIONS. PLACEMENT SHALL BE MADE BY CHUTE DIRECTLY FROM THE CONCRETE TRUCKS. IF PUMPING OF THE CONCRETE IS CONTEMPLATED FOR ANY SPECIAL LOCATIONS, THE PROPORTIONS ESTABLISHED ABOVE SHALL NOT BE ALTERED TO SUIT THE CAPABILITIES OF THE PUMPING EQUIPMENT.

READY MIX CONCRETE SHALL COMPLY WITH REQUIREMENTS OF ASTM C94. WHEN AIR TEMPERATURE IS BETWEEN 85° AND 90° F, REDUCE MIXING AND DELIVERY TIME FROM 90 MINUTES TO 75 MINUTES; WHEN AIR TEMPERATURE IS ABOVE 90° F, REDUCE MIXING AND DELIVERY TIME TO 60 MINUTES.

WATER CEMENT RATIO SHALL BE BASED ON SURFACE DRY MATERIAL.

CONTRACTION JOINTS IN SLABS-ON-GRADE: FORM WEAKENED-PLANE CONTRACTION JOINTS, SECTIONING CONCRETE INTO AREAS AS INDICATED. CONSTRUCT CONTRACTION JOINTS FOR A DEPTH EQUAL TO AT LEAST ONE-FOURTH OF THE CONCRETE THICKNESS, AS FOLLOWS: SAWED JOINTS: ALL SAW CUTTING SHALL BE ACCOMPLISHED WITH A SOFT-CUT SAW AS SOON AS THE SLAB WILL SUPPORT THE WEIGHT OF THE SAW AND OPERATOR. NOTE: CONCRETE DUST SHALL BE REMOVED COMPLETELY AND IMMEDIATELY. IF CHALK LINES ARE USED FOR SAW CUTS, ALL CHALK REMAINING ON SLAB SHALL

COMPLY WITH ACI 117, "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE

BE REMOVED COMPLETELY AND IMMEDIATELY AFTER SAWING.

CONSTRUCTION AND MATERIALS." ALL INTERIOR FLOOR SLABS SHALL MEET THE REQUIREMENTS OF A TYPE 5, SINGLE COURSE, HARD STEEL - TROWELED FINISH AS DESCRIBED IN ACI 302.IR- LATEST EDITION.

J. CONCRETE CURING AND PROTECTION:

FIRST. ALL EXTERIOR CONCRETE SLABS SHALL BE CURED USING A LIQUID MEMBRANE- FORMING CURING COMPOUND TO BE APPLIED EVENLY AND UNIFORMLY PER MANUFACTURER'S INSTRUCTIONS AS SOON AS POSSIBLE AFTER FINAL FINISHING. SURFACE SHALL BE DAMP. BUT NOT WET AND CAN NO LONGER BE MARRED BY A WALKING WORKMAN. ALL APPLICATIONS SHALL BE MADE BY AN APPLICATOR CERTIFIED BY THE MANUFACTURER, AND WHEN SURFACE AND AIR TEMPERATURE IS ABOVE 50° F BEGIN CURING AFTER FINISHING CONCRETE, BUT NOT BEFORE FREE WATER HAS DISAPPEARED FROM CONCRETE SURFACE. CURING COMPOUND SHALL BE PLACED WITHIN FOUR (4) HOURS AFTER CONCRETE HAS BEEN PLACED.

SECOND. CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES F AND IN A MOIST CONDITION FOR AT LEAST THE FIRST SEVEN (7) DAYS AFTER PLACEMENT.

INTERIOR SLABS - CURING a) FIRST, ALL INTERIOR CONCRETE SLABS SHALL BE CURED USING A LIQUID MEMBRANE-FORMING CURING COMPOUND TO BE APPLIED EVENLY AND UNIFORMLY PER MANUFACTURER'S INSTRUCTIONS AS SOON AS POSSIBLE AFTER FINAL FINISHING SURFACE SHALL BE DAMP, BUT NOT WET AND CAN NO LONGER BE MARRED BY A WALKING WORKMAN. ALL APPLICATIONS SHALL BE MADE BY AN APPLICATOR CERTIFIED BY THE MANUFACTURER, AND WHEN SURFACE AND AIR TEMPERATURE IS ABOVE 50° F. BEGIN CURING AFTER FINISHING CONCRETE, BUT NOT BEFORE FREE WATER HAS DISAPPEARED FROM CONCRETE SURFACE. CURING COMPOUND SHALL BE PLACED WITHIN FOUR (4) HOURS AFTER CONCRETE HAS BEEN PLACED.

b) SECOND, CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES F AND PONDED WITH WATER FOR SEVEN (7) DAYS AFTER CONCRETE PLACEMENT.

THIRD, CONCRETE SLABS SHALL BE CURED USING A LIQUID MEMBRANE- FORMING CURING COMPOUND TO BE APPLIED EVENLY AND UNIFORMLY PER MANUFACTURER'S INSTRUCTIONS. SURFACE SHALL BE DAMP, BUT NOT WET AND CAN NO LONGER BE MARRED BY A WALKING WORKMAN. ALL APPLICATIONS SHALL BE MADE BY AN APPLICATOR CERTIFIED BY THE MANUFACTURER, AND WHEN SURFACE AND AIR TEMPERATURE IS ABOVE 50° F.

INTERIOR SLAB PROTECTION TAKE THE FOLLOWING MEASURES TO PROTECT FLOOR SLAB:

A. WRAP OR "DIAPER" ALL MOTORIZED AND HYDRAULIC EQUIPMENT TO PREVENT B. PROVIDE NON-MARKING TIRES ON RUBBER TIRED VEHICLES OR EQUIP RUBBER TIRES WITH TIRE BOOTS MADE OF NYLON FABRIC.

C. SOURCE FOR DIAPERS AND BOOTS: R&R TIRE SURFACE PROTECTORS, INC., FORT COLLINS CO 80526, (970) 266-4082 PROVIDE MATS AT ALL ENTRANCES TO PREVENT MUD STAINS. E. COVER SLAB PRIOR TO PAINTING. ALL SPILLS TO BE CLEANED WITH SOAP AND

STRUCTURAL OBSERVATIONS

ROOFING MATERIAL.

WATER. LACQUER THINNER WILL NOT BE ACCEPTABLE.

JOB SITE OBSERVATIONS BY THE PROFESSIONAL ENGINEER OR HIS AUTHORIZED REPRESENTATIVE SHALL CONSIST OF VISUAL OBSERVATION OF MATERIALS, EQUIPMENT OR CONSTRUCTION WORK FOR THE PURPOSE OF ASCERTAINING THAT THE WORK IS IN SUBSTANTIAL CONFORMANCE WITH THE CONTRACT DOCUMENTS AND WITH THE INTENT.

SUCH OBSERVATIONS SHALL NOT BE RELIED UPON BY OTHERS AS ACCEPTANCE OF THE WORK, NOR SHALL IT BE CONSTRUED TO RELIEVE THE CONTRACTOR IN ANY WAY FROM HIS OBLIGATIONS AND RESPONSIBILITIES UNDER THE CONSTRUCTION CONTRACT.

SPECIFICALLY BUT WITHOUT LIMITATION. OBSERVATIONS BY THE DESIGN PROFESSIONAL SHALL NOT REQUIRE THE DESIGN PROFESSIONAL TO ASSUME RESPONSIBILITY FOR THE MEANS AND METHODS OF CONSTRUCTION. NOR FOR SAFETY ON THE JOB SITE. NOR FOR ITEMS NOT INSTALLED OR IMPROPERLY INSTALLED BY THE CONTRACTOR OR HIS SUBCONTRACTORS.

NOTIFY ENGINEER 48 HOURS IN ADVANCE WHEN A STRUCTURAL OBSERVATION IS REQUIRED. CONSTRUCTION STAGE REQUIRED BEFORE PLACEMENT OF CONCRETE FOR SLAB/FOUNDATION BEFORE PLACEMENT OF FOUR (4) FEET OF CONCRETE IN CMU WALL AFTER FRAMING OF ROOF STRUCTURE BUT BEFORE PLACEMENT OF



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AUTHORIZED BY SIMON G. SOLORIO JR., PE 83066 ALTERATION OF A SEALED DOCUMEN WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER "ISSUED FOR For Construction

THE SEAL APPEARING ON THIS DOCUMENT WAS

PROJECT NUMBER

may 17, 2021

SHEET NAME

General Notes

INSPECTOR.

CODES AND SPECIFICATIONS.

- IN THIS SECTION AND THOSE REQUIRED BY AUTHORITIES HAVING JURISDICTION. B. EMPLOY AND PAY THE MATERIALS TESTING LABORATORY TO PERFORM TESTS SPECIFIED IN THIS SECTION AND THOSE REQUIRED BY AUTHORITIES HAVING JURISDICTION. 1) RETESTING - THE CONTRACTOR SHALL REIMBURSE THE OWNER FOR RE-TESTING WHERE RESULTS OF INSPECTIONS AND TESTS PROVE UNSATISFACTORY AND INDICATE
- NONCOMPLIANCE WITH REQUIREMENTS. EMPLOY THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE STRUCTURAL DESIGN OR ANOTHER ENGINEER OR ARCHITECT DESIGNATED BY THE (DPR) TO PERFORM STRUCTURAL OBSERVATION. (REF 1702)
- DEFINITIONS A. APPROVED FABRICATOR: A FABRICATOR REGISTERED AND APPROVED BY THE BUILDING OFFICIAL AND ENGINEER OF RECORD, TO PERFORM WORK, OFF SITE, REQUIRING SPECIAL INSPECTION WITHOUT SPECIAL INSPECTION. THE DESCRIPTION IN SECTION 1701.1 OF THE 1998 CALIFORNIA BUILDING CODE IS APPLICABLE.
- B. SPECIAL INSPECTION AGENCY: THE ACCREDITED INSPECTION BODIES DESIGNATED HEREIN AND APPROVED BY THE ENGINEER OF RECORD TO PERFORM SPECIAL INSPECTION AS REQUIRED BY THE BUILDING CODE AND THE PROJECT SPECIFICATIONS AND AS
- DESCRIBED IN SECTION 1701 1998 CALIFORNIA BUILDING CODE. SPECIAL INSPECTOR: A QUALIFIED PERSON, EMPLOYED BY THE SPECIFIED SPECIAL INSPECTION AGENCY, WHO HAS DEMONSTRATED COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. DUTIES INCLUDE VISUAL OBSERVATIONS AND FIELD MEASUREMENTS OF MATERIALS, OBTAINING SPECIMENS FOR TESTS AND RELATED ACTIONS INCLUDING PREPARATION OF REPORTS.
- D. TESTING LABORATORY: AN ACCREDITED MATERIALS TESTING LABORATORY, APPROVED BY THE ENGINEER OF RECORD, TO MEASURE, EXAMINE, TEST, CALIBRATE OR OTHERWISE DETERMINE THE CHARACTERISTICS OR PERFORMANCE OF CONSTRUCTION
- MATERIALS. E. CONTINUOUS INSPECTION: ON SITE INSPECTION BY THE SPECIAL INSPECTOR ON A CONTINUOUS BASIS OBSERVING ALL WORK REQUIRING SPECIAL INSPECTION.
- PERIODIC INSPECTION: INTERMITTENT INSPECTION AS PERMITTED BY THE PLAN SPECIFICATIONS AT PREDETERMINED INTERVALS OR MORE FREQUENTLY AS WORK PROGRESSES. NO SIGNIFICANT ELEMENTS OR AREAS SHALL BE COVERED BY ADDITIONAL WORK UNTIL APPROVED BY THE MUNICIPAL BUILDING INSPECTOR AND/OR THE SPECIAL
- G. STRUCTURAL OBSERVATION: THE VISUAL OBSERVATION, BY THE ENGINEER OF RECORD OR HIS DESIGNEE, INCLUDING BUT NOT LIMITED TO THE ELEMENTS AND CONNECTIONS, OF THE STRUCTURAL SYSTEM, FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATION, AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE SPECIAL AND MUNICIPAL INSPECTIONS REQUIRED BY
- H. EOR: ENGINEER OF RECORD DPR: ENGINEER OF RECORD/DESIGN PROFESSIONAL OF RECORD
- SPECIAL INSPECTION AND MATERIALS TESTING THIS SECTION APPLIES TO THE STRUCTURAL PORTIONS OF THE PROJECT REQUIRING SPECIAL INSPECTION. THE SPECIAL INSPECTORS DUTIES ARE DESCRIBED IN CBC
- 1701.3 AND CBC 1701.5 DOCUMENTED METHODS AND PROCEDURES SHALL BE USED FOR INSPECTION AND TESTING REQUIRED OF CONTRACTUAL DOCUMENTS, AND FOR ESTABLISHING ACCEPTANCE CRITERIA. ALL INSTRUCTIONS, STANDARDS, PROCEDURES, CHECKLISTS RELEVANT TO
- THE WORK WILL BE KEPT UP TO DATE AND READILY AVAILABLE FOR USE. NO INSPECTION OR TEST WILL BE PERFORMED IF THE SAFETY OF THE TESTING PERSONNEL IS IN QUESTION DUE TO JOB SITE CONDITIONS. PRIOR TO PROJECT COMMENCEMENT, THE TESTING AGENCY WILL CONFER WITH AND OBTAIN THE APPROVAL FROM THE APPROPRIATE DESIGN PROFESSIONAL OF RECORD REGARDING THE INSPECTION AND TESTING PROCEDURES OR SPECIFICATIONS INCLUDING ANY APPROPRIATE ASTM METHODS, CODE REQUIREMENTS OR PROJECT SPECIFICATION REQUIREMENTS. AT THE START OF AND DURING EACH INSPECTION OF THE PROJECT TO ASCERTAIN PROPOSED CONFORMITY OF MATERIALS, PERSONNEL QUALIFICATIONS, AS REQUIRED, AND PROCEDURS WITH
- APPLICABLE CODES, PLANS, AND SPECIFICATIONS. ALL INSPECTIONS SHALL BE PERFORMED BY AN ACCREDITED, APPROVED SPECIAL INSPECTION AGENCY EMPLOYED BY THE OWNER OR OWNER'S AGENT, NOT THE
- CONTRACTOR OR SUBCONTRACTOR, ACCREDITATION TO ASTM E-329-95C, STANDARD SPECIFICATIONS FOR AGENCIES ENGAGED IN THE TESTING AND/OR INSPECTION OF
- MATERIALS USED IN CONSTRUCTION, IS PREFERRED COPIES OF THE TEST RESULTS AND FINAL REPORTS SHALL BE FURNISHED TO
- THE ENGINEER OF RECORD (EOR) IN ADDITION TO OTHER NORMAL DISTRIBUTIONS, WITHIN TWO DAYS OF THE TEST. IN THE CASE OF DISCREPANCIES OR DEFICIENCIES, THE SPECIAL INSPECTION AGENCY SHALL IMMEDIATELY NOTIFY THE EOR. TESTING FREQUENCY SHALL BE PER APPLICABLE STRUCTURAL MASONRY, REINFORCED CONCRETE, AND STRUCTURAL STEEL WELDING CODES AND STANDARDS AND ARE PART OF THIS SPECIFICATION.
- A. CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION MUST BE COMPLETED AND SUBMITED TO THE INSPECTION SERVICES DIVISION BY THE CONTRACTOR
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TEST AND/OR INSPECTION FIRM WITH A CONSTRUCTION SCHEDULE TO FACILITATE THE PROPER COORDINATION THE SPECIAL INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS TO THE
- BUILDING OFFICIAL, THE ARCHITECT, AND THE ENGINEER AT A MINIMUM PER WEEK FREQUENCY. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT, SIGNED BY BOTH HE AND HIS SUPERVISOR, STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS IN CONFORMANCE WITH THE APPROVED PLANS AND
- SPECIFICATIONS AND THE WORKMANSHIP PROVISIONS OF THE CBC. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION; THEN IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND THE BUILDING OFFICIAL.
- SPECIAL INSPECTION REPORTS THESE REPORTS SHALL INCLUDE, AS A MINIMUM, THE FOLLOWING INFORMATION: A. PERMIT NUMBER
- B. NAME OF THE MUNICIPAL INSPECTOR, IF AVAILABLE, AND OF THE GOVERNING MUNICIPALITY SPECIAL INSPECTION AGENCY NAME, ADDRESS, AND PHONE NUMBER . UNIQUE IDENTIFICATION OF THE REPORT AND OF EACH PAGE.
- . CLIENT NAME AND ADDRESS NAME AND ADDRESS OF THE DESIGN PROFESSIONAL OF RECORD, AND OTHER DESIGNERS OR ENGINEERS APPLICABLE TO THE PROJECT
- G. DESCRIPTION OF THE TYPE OF INSPECTION PERFORMED H. ANY UNRESOLVED DEVIATIONS, EXCLUSIONS, AND ADDITIONS TO OR FROM THE APPROVED DRAWINGS AND SPECIFICATIONS RELEVANT TO THE SPECIFIC INSPECTION
- COMPLIANCE FINDINGS AND REFERENCE
- DESCRIPTION OF LOCATION WHERE THE INSPECTION WAS PERFORMED WITHIN THE PROJECT C. TIME AND DATE OF THE INSPECTION
- MEASUREMENTS, EXAMINATIONS, AND DERIVED RESULTS SUPPORTED BY TABLES,
- GRAPHS, SKETCHES, OR PHOTOGRAPHS AS APPROPRIATE M. THE NAME, SIGNATURE, TITLE, AND IDENTIFICATION NUMBER, AS APPROPRIATE, OF THE FIELD INSPECTOR PERFORMING THE INSPECTION
- N. IDENTIFICATION OF SUBCONTRACTORS EMPLOYED TO CARRY OUT TESTS OR PARTS OF TESTS TESTS REPORTS
- LABORATORY TESTS AND MILL CERTIFICATIONS ARE REQUIRED TO BE SUBMITTED TO THE ENGINEER OF RECORD. THESE REPORTS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
- 1. CONCRETE CYLINDERS 2. REINFORCING STEEL
- 3. STRUCTURAL STEEL 4. CONCRETE MIXES 5. CONCRETE ANCHORS
- SPECIAL INSPECTION BY A SPECIAL OR DEPUTY INSPECTOR FROM AN ACCREDITED EOR APPROVED INSPECTION AGENCY AND WITH THE APPROPRIATE CURRENT MUNICIPAL LICENSES AND CERTIFICATIONS SHALL BE REQUIRED FOR THE TYPE OF WORK LISTED BELOW.

- 8A CONTINUOUS INSPECTION REQUIRED FOR THE FOLLOWING:
 - 1. DURING PLACEMENT OF REINFORCED CONCRETE WHERE THE STRUCTURAL DESIGN IS BASED ON F'C GREATER THAT 3,000 PSI AND THE TAKING TEST SPECIMENS. THE NUMBER OF AND FREQUENCY OF TAKING OF TEST SPECIMENS SHALL BE THE MINIMUM REQUIRED BY THE GOVERNING MUNICIPAL BUILDING CODE OR AS SPECIFIED BY THE APPROVED STRUCTURAL PLANS, WHICHEVER IS THE GREATER NUMBER
 - 2. DURING THE PLACEMENT OF REINFORCING STEEL AND PRE STRESS TENDONS UNLESS THE SPECIAL INSPECTOR HAS INSPECTED FOR CONFORMANCE WITH THE APPROVED PLANS PRIOR TO THE CLOSING OF FORMS OR THE DELIVERY OF
 - CONCRETE TO THE JOBSITE. 3. DURING THE PLACEMENT OF REINFORCING STEEL AND CONCRETE FOR
- CAST-IN-PLACE DRILLED PILES OR CAISSONS. 4. INSPECTION IS REQUIRED ON CAST-IN-PLACE PILES OR CAISSONS, EVEN IF F'C IS LESS THAN 2.500 PSI.
- 5. PRIOR TO AND DURING THE PLACEMENT OF CONCRETE AROUND BOLTS WHEN STRESS INCREASES PERMITTED BY FOOTNOTE 5 OF TABLE 19E, SECTION 1925 OF THE UNIFORM BUILDING CODE FOR THE USE OF FULL VALUES FOR EMBEDDED
- 6. PRIOR TO AND DURING THE INSTALLATION OF ANCHORS REQUIRING TO BE DRILLED INTO CONCRETE.
- 7. DURING THE STRESSING AND GROUTING OF TENDONS IN PRE STRESSED 8. CONTINUOUS INSPECTION FOR THE PLACEMENT OF THE REINFORCEMENT AND CONCRETE AT CONCRETE MOMENT FRAMES WITHIN SEISMIC ZONES 3 & 4 SHOT CRETE PLACEMENT AND DURING THE TAKING OF TEST SPECIMENS.
- PERIODIC INSPECTION FOR REINFORCED CONCRETE SHALL BE PERFORMED WHEN SPECIFIED. AS MINIMUMS: 1. AT THE START OF AND DURING EACH INSPECTION OF THE PROJECT TO ASCERTAIN PROPOSED CONFORMITY OF MATERIALS, PERSONNEL QUALIFICATIONS
- AS REQUIRED, AND PROCEDURES WITH THE APPLICABLE CODES, PLANS AND SPECIFICATIONS. REINFORCEMENT VERIFICATION PRIOR TO THE PLACEMENT OF CONCRETE
- 3. DURING THE PLACEMENT OF CONCRETE 4. DURING THE MOLDING, CONSTRUCTION OF TAKING OF COMPRESSION SAMPLES,
- BEAMS, CORES OR PANELS 5. AT SUCH FREQUENCY AS NECESSARY TO CLEARLY CONFIRM THE PLACEMENT OF TIES, HOOPS, STIRRUPS, CONNECTIONS, AND ANY ADDITIONAL SPECIFIED REINFORCEMENT (IE @ OPENINGS, BEAMS, CORNERS, COLUMNS, PIERS, AND CAISSONS) BEFORE THEY ARE COVERED.
- 6. DURING SAMPLING OF CONCRETE AT DISCHARGE FROM MIXER
- 7. BEFORE ANY CONCRETE IS PLACED FOR VERIFICATION OF MIX DESIGN 8. ALL FUNCTIONS AT THE BATCHING PLANT FOR READY MIX. THIS COULD INCLUDE CEMENT SAMPLING OR TEST RESULTS, GRAVEL GRADATION, CHECKING CALIBRATION OF EQUIPMENT AND ADMIXTURE APPROVALS.
- B. STRUCTURAL WELDING GENERAL INSPECTOR'S DUTIES 1. ALL FIELD WELDING NOT DONE IN AN APPROVED FABRICATORS SHOP EXCEPT THAT PERIODIC INSPECTION THE FREQUENCY OF WHICH IS DETERMINED PRIOR TO THE START OF THE PROJECT SHALL BE ALLOWED PER SECTION 1701.5,
- #5 EXCEPTIONS 2. DURING ALL FIELD WELDING OF SPECIAL MOMENT-RESISTING FRAMES; IN ADDITION, NONDESTRUCTIVE TESTING AS REQUIRED BY SECTION 1703.
- 3. THE SPECIAL INSPECTOR SHALL REVIEW EOR APPROVED WELDING PROCEDURES SPECIFICATIONS (WPS) WHEN OTHER THAN STANDARD AWS PRE QUALIFIED JOINTS AND PROCEDURES ARE INVOLVED.
- 4. THE SPECIAL INSPECTOR SHALL REVIEW APPLICABLE SECTION OF REFERENCED CODES, PARTICULARLY THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE (AWS D1.1) AND THE MANUAL, AND SPECIFICATIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).
- 5. THE SPECIAL INSPECTOR SHALL REVIEW MILL TEST REPORTS AND CHECK HEAT NUMBERS WITH MATERIAL AS RECEIVED. VERIFY THAT PROPER IDENTIFICATION OF STEEL IS MAINTAINED DURING FABRICATION.
- 6. THE SPECIAL INSPECTOR SHALL, WHEN REQUIRED BY PROJECT SPECIFICATIONS, MARK SAMPLE LOCATION WITH STEEL STAMP ON EACH PIECE TESTED.
- 7. THE SPECIAL INSPECTOR SHALL RECORD SAMPLE NUMBER AND LOCATION AND CHECK THAT SAMPLE IDENTIFICATION IS MAINTAINED AS SAMPLES ARE DELIVERED TO LABORATORY AND TESTED.
- 8. THE SPECIAL INSPECTOR SHALL WHEN STEEL MEMBERS ARE DELIVERED TO FINISH AND NO "CROP ENDS" ARE AVAILABLE FOR SAMPLE CUTTING, COORDINATE CUTTING AND PATCHING REQUIREMENTS WITH THE ARCHITECT/ENGINEER
- WELDING OBSERVATION (APPLICABLE TO SHOP AND FIELD) 1. THE SPECIAL INSPECTOR SHALL CHECK EACH WELDER'S CERTIFICATION AND VERIFY THAT THE WELDER DOES WORK ONLY AS QUALIFIED BY HIS CERTIFICATION
- 2. THE SPECIAL INSPECTOR SHALL KEEP A WRITTEN RECORD OF EACH WELDER BY NAME IDENTIFICATION NUMBER AND HIS IDENTIFYING STEEL MARK IF APPLICABLE, AND THE PERCENTAGE OF REJECTABLE WELDS.
- 3. THE SPECIAL INSPECTOR SHALL UPON DETECTION OF REJECTABLE WELD (EITHER VISUALLY OR BY NONDESTRUCTIVE TEST). THE INSPECTOR OF RECORD WILL NOTIFY THE WELDER AND HIS FOREMAN FOR VERIFICATION OF DEFECT. THE INSPECTOR OF RECORD WILL OBSERVE REMOVAL, REWORK, OR REPAIRS
- 4. THE SPECIAL INSPECTOR SHALL CHECK STRUCTURAL MEMBERS FOR THICKNESS ADJACENT TO WELDS, OPENING, ETC. REWORK, OR REPAIRS. 5. THE SPECIAL INSPECTOR SHALL INSPECT JOINTS FOR PROPER PREPARATION,
- INCLUDING BEVEL, ROOT FACES, ROOT OPENING, ETC. REWORK, OR REPAIRS. 6. THE SPECIAL INSPECTOR SHALL CHECK THE TYPE AND SIZE OF ELECTRODES TO BE USED FOR THE VARIOUS JOINTS, AND POSITIONS. CHECK THE STROGAGE FACILITIES TO SEE IF THEY ARE ADEQUATE TO KEEP THE ELECTRODES DRY.
- 7. THE SPECIAL INSPECTOR SHALL OBSERVE THE TECHNIQUE OF EACH THE SPECIAL INSPECTOR SHALL WELDER WITH USE OF A WELDING INSPECTION SHIELD. 8. THE SPECIAL INSPECTOR SHALL VERIFY THE USE OF PROPER PREHEAT AND INTER PASS TEMPERATURES. INSPECTOR SHALL WELDER WITH USE OF A WELDING INSPECTION SHIELD.
- 9. THE SPECIAL INSPECTOR SHALL CONTINUOUSLY OBSERVE MULTI-PASS WELDS. CONTINUOUS INSPECTION IS DEFINED AS FOLLOWS: THE INSPECTOR IS PRESENT IN THE WELDING AREA AT ALL TIMES AND IS FULLY AWARE OF THE PROGRESS OF THE WELDING AT ANY GIVEN TIME. THE INSPECTOR MAY WATCH MULTIPLE WELDERS PROVIDED THEY ALL BE IN THE AREA, CLOSE ENOUGH FOR EFFECTIVE VISUAL INSPECTION OF THE WORK PERFORMED.
- 10. THE SPECIAL INSPECTOR SHALL DETERMINE THAT THE OPERATOR IS CAPABLE OF PRODUCING THE REQUIRED WELDS. 11. THE SPECIAL INSPECTOR SHALL OBSERVE SINGLE PASS FILLET WELDS PERIODICALLY,
- OR MORE OFTEN IF CODES AND SPECIFICATIONS REQUIRE. 12. THE SPECIAL INSPECTOR SHALL, IF STRAIGHTENING OR RESTRAINING OF WELDMENTS IS NECESSARY, VERIFY THAT APPROVED METHODS WILL BE USED.
- 13. THE SPECIAL INSPECTOR SHALL TAG OR STAMP ACCEPTED WELDMENTS WITH
- THE INSPECTOR'S IDENTIFICATION STAMP. APPROVED METHODS WILL BE USED.

JACK AND KING STUD

SIZE OF OPENING	24" O.C. \$	STUD SPACING	16" O.C. STUD SPACING		
	NO. OF JACK STUDS ¹	NO. OF KING STUDS ²	NO. OF JACK STUDS ¹	NO. OF KING STUDS ²	
UP TO 3'-6"	1	1	1	1	
> 3'-6" TO 5'-0"	1	2	1	2	
> 5'-0" TO 5'-6"	1	2	2	2	
> 5'-6" TO 8'-0"	1	2	2	2	
> 8'-0" TO 10'-6"	2	2	2	3	
> 10'-6" TO 12'-0"	2	2	3	3	
> 12'-0" TO 13'-0"	2	3	3	3	
> 13'-0" TO 14'-0"	2	3	3	4	
> 14'-0" TO 16'-0"	2	3	3	4	
> 16'-0" TO 17'-0"	3	3	4	4	
> 17'-0" TO 18'-0"	3	3	4	4	

- 1 TOTAL NUMBER OF JACK STUDS REQUIRED AT EACH END OF THE HEADER.
- 2 TOTAL NUMBER OF KING STUDS REQUIRED AT EACH END OF THE HEADER.

- (1) LOW PROFILE HEAD IS USED IN LIEU OF PAN OR HEX WASHER HEADS WHERE LEAST PROJECTION OF FASTENER IS DESIRED.
- (2) S-7 POINT WILL SUBSTITUTE S-12 WHEN ATTACHING .07" MEMBERS TOGETHER.
- (3) #2 POINT SELF DRILLING SCREW WILL BE SUBSTITUTED BY #3 POINT SELF DRILLING SCREW WHEN STEEL THICKNESS VARIES BETWEEN .09" TO .250". CONSULT MFG. RECOMMENDED THICKNESS FOR DRILL CAPACITY.

ROOF METAL DECK YES NO N/A Х GAUGE: A. CONTINUOUS INSPECTION AND TEST CYLINDERS FOR CONCRETE. X SPAN ATTACHMENT: B. ADDITIONAL TESTING MAY BE REQUIRED AS SPECIFIED ON X

| X |

8A. PORTIONS OF WORK REQUIRING SPECIAL INSPECTION

THE PLANS.

A. PLACING OF REINFORCING

A. ALL STRUCTURAL WELDING

B. SAMPLING AND TESTING STEEL

DRILLED

ANCHORS

REINFORCING

STEEL

WELDING

STRUCTURAL

DIAPHRAGMS

A. COMPACTED FILL, GRADING, AND EXCAVATIONS

B. CONTINUOUS INSPECTION FOR SLAB CONCRETE

B. CONTINUOUS INSPECTION OF PIERS

C. TEST CYLINDERS FOR SLAB CONCRETE

D. ANCHOR BOLTS OR EMBEDS IN CONCRETE

(INSTALLATION AND CONCRETE PLACEMENT)

A. ALL ADHESIVE ANCHORS, RODS, DOWELS, SHALL BE

CONTINUOUSLY INSPECTED DURING INSTALLATION.

ADHESIVE ANCHORS IN CONCRETE OR MASONRY

(MILL REPORTS AND IDENTIFICATION OF STEEL)

B. ULTRASONIC TESTING OF FULL PENETRATION WELD

C. STRUCTURAL LIGHT GAGE METAL FRAME WELDING.

D. CONTINUOUS INSPECTION DURING PLACEMENT AND GROUTING

C. DURING PLACEMENT OF PAINT AS SPECIFIED BY THE ARCHITECT.

A. INSPECTION OF SHEATHING PLACEMENT AND NAIL SPACING

STRUCTURAL OBSERVATIONS REQUIRED. WHEN REQUIRED BY THIS

APPROVED APPROVED FABRICATORS: MUST SUBMIT CERTIFICATE OF COMPLIANCE

FABRICATORS FOR ALL OFF SITE FABRICATION SUCH AS STRUCTURAL STEEL GLU-LAMS

STRUCTURAL ENGINEER OR THE BUILDING DEPARTMENT, THE CONTRACTOR SHALL

(2) 6" CSJ 18ga. (3) 6" CSJ 18ga.

(2) 8" CSJ 18 ga. (3) 8" CSJ 18 ga.

(2) 10" CSJ 18 ga. (3) 10" CSJ 16 ga.

FASTENING

MATERIALS

CEILING JOIST TO WOOD TOP PLATE

CEILING JOIST TO TOP PLATE TRACK

CONNECTION CLIP TO CEILING JOIST

CEILING JOIST TO PARALLEL RAFTER

CONNECTION CLIP TO RIDGE BOARD

RAFTERS OVERLAPPED AT RIDGE

BUILT UP BEAM (RIDGE BOARD)

STIFFBACK BRACING TO JOIST

SUB-FASCIA TRACK TO RAFTER

WOOD FASCIA TO SUB-FASCIA TRACK

STUD TO PLATE TRACK (BOTTOM)

STUD TO PLATE TRACK (TOP)

DIAGONAL BRACING TO STUD

LATERAL BRACING TO STUD

STUD TO STUD (NESTED)

LINTEL TO STUD

TO FOUNDATION

STUD TO STUD (BACK TO BACK)

WALL BOTTOM TRACK (RUNNER)

STUD TO STUD (AT WALL INTERSECTION)

CONNECTION CLIP TO RAFTER

CEILING JOIST TO TRUSS WEB

CONNECTION CLIP TO TOP PLATE TRACK

CONNECTION CLIP TO TOP PLATE TRACK

OBSERVATION EMPLOY AN ENGINEER APPROVED BY THE EOR TO PERFORM

HEADER SPAN 3 5/8" STUD WALL 6" STUD WALL

> 12' TO 16' (2) 12" CSJ 18 ga. (3) 12" CSJ 14 ga.

(4) #10 SCREWS

(4) #10 SCREWS

(6) #12 SCREWS

> 12' TO 16' (8) #12 SCREWS

OF MASONRY UNITS AND REINFORCEMENT PLACEMENT.

EXCEPT WELDING IN APPROVED SHOPS

CONNECTIONS , AND FIELD WELDS.

A. HIGH STRENGTH BOLT A325 & A490

B. HIGH STRENGTH BOLT A325N,X & A480N,X

. ANCHOR BOLTS OR EMBEDS IN MASONRY

(INSTALLATION AND GROUT PLACEMENT)

A. MILL REPORTS AND IDENTIFICATION OF STEEL

D. REINFORCING STEEL WELDING

(TORQUE VERIFICATION)

(SNUG CONTACT OF PLYS)

C. MORTAR SAMPLING

CONCRETE A. TEST CYLINDERS AND INSPECTIONS

B. SAMPLING AND TESTING

PRECAST CONCRETE, ETC.

STRUCTURAL OBSERVATION.

HEADER TO KING

HEADER TO KING

HEADER SPAN

< 4'

> 4' TO 8'

> 8' TO 12'

> 4' TO 8'

(AFFIDAVIT OF COMPLIANCE)

A. SAMPLING OF MASONRY UNITS

B. MASONRY PRISM CONSTRUCTION

SHEET METAL ASTM A446, GRADE A, MATERIAL **GALVANIZING: DECK PROFILE** PROFILE DEPTH: 1.5 INCHES 5'-0"

5/8" PUDDLE WELDS AT SUPPORTS: FASTENER LAYOUT 36/7 (9" AT PERIMETER) AT SIDE LAPS: #10 TEK SCREWS 9 FASTENERS PER SPAN SIDE LAPS

3. INSTALL DECK ENDS OVER SUPPORTING FRAMING WITH A MINIMUM END BEARING OF1.5" WITH END JOINTS LAPPED AT A MINIMUM OF TWO INCHES AND SHALL OCCUR

4. SCREWS MUST BE INSTALLED USING PROPERLY CALIBRATED TOOLS TO AVOID OVERDRIVING WHICH CAN STRIP THE THREADS AT SIDE LAPS OR SEVER THE SCREW WHEN IT IS PLACED INTO HEAVIER SUBSTRATE.

5. DECK UNITS SHALL BE 3 OR MORE SPANS AND SHALL BE ATTACHED TO THE STRUCTURAL SUPPORT

OPEN WEB STEEL JOISTS

Metal studs shall be designed by subcontractor

FASTENER

1" - 1 1/8" #10

1" -1 1/8" #10

PAN HEAD

1 5/8" #6 TRIM HEAD

PROFILE HEAD

CEILING JOIST, OVERLAPPED AT SUPPORT 5/8" - 3/4" #10 SELF DRILLING PAN HEAD

Professional Engineer

submit calculations and drawings designed by Texas

5/8" - 3/4" #10 SELF DRILLING PAN HEAD

5/8" - 3/4" #8 OR #10 SELF DRILLING LOW

5/8" - 3/4" #8 OR #10 SELF DRILLING LOW

1/2" - 5/8" #8 OR #10 SELF DRILLING LOW

1/2" - 5/8" #8 OR #10 SELF DRILLING LOW

1/2" - 5/8" #8 OR #10 SELF DRILLING LOW

1/2" - 5/8" #8 OR #10 SELF DRILLING LOW

1/2" - 5/8" #8 OR #10 SELF DRILLING LOW

1/2" - 5/8" #8 OR #10 SELF DRILLING LOW

1/2" DIAMETER ANCHOR BOLT

5/8" - 3/4" #10 SELF DRILLING LOW PROFILE

- ALL STEEL FOR JOISTS SHALL CONFORM TO THE STEEL JOIST INSTITUTE REQUIREMENTS FOR K-SERIES OPEN WEB JOISTS, AND VS-SERIES STEEL JOISTS, MINIMUM 50,000 PSI YIELD
- ALL STEEL JOISTS SHALL RECEIVE MANUFACTURER'S STANDARD BASE PAINT, APPLIED BY
- DIPPING OR SPRAYING, BEFORE I FAVING THE SHOP ALL STEEL JOISTS BEARING ON STEEL SHALL HAVE A MINIMUM 2 1/2" BEARING LENGTH AND SHALL BE WELDED TO THE STEEL WITH 2 WELDS AT EACH END, EACH 2 1/2" LONG. JOIST BEARING LESS THAN 2 1/2" SHALL BE DESIGNED BY THE JOIST SUPPLIER TO RESIST THE
- INCREASED STRESS. THE JOIST SUPPLIER SHALL SPECIFY SPECIAL JOIST SEATS AND ANCHORAGE REQUIREMENTS FOR DEFICIENT BEARING PROVIDE 2"x2"x1/4" ANGLE BOTTOM CHORD EXTENDS AT STEEL JOIST END AT COLUMN LINES OR AT JOIST NEAREST COLUMN LINES
- CHECK ARCHITECTURAL PLANS IF BOTTOM CHORD EXTENSIONS ARE REQUIRED. BOTTOM CHORD EXTENDED ENDS SHALL NOT BE INSTALLED UNTIL AFTER ROOF HAS BEEN COMPLETELY INSTALLED
- ROOF TOP A/C UNITS SHALL HAVE AN OPERATING WEIGHT NOT TO EXCEED 500 LBS. AND SHALL BE LOCATED OVER A MINIMUM OF 2 JOISTS. ROOF TOP UNITS WEIGHING MORE THAN 500 LBS. SHALL BE LOCATED AS SHOWN ON THE MECHANICAL PLANS.
- STEEL JOISTS TO BE DESIGNED PER DESIGN CRITERIA ALL STEEL JOISTS SHALL BE MANUFACTURED BY SMI or CANAM, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- 10. PROVIDE ANGLES FOR SUPPORT AROUND OPENINGS AT METAL DECK. 11. STEEL JOIST SUPPLIER TO VERIFY THAT THE SPECIFIED JOIST MEET ALL THE MINIMUM
- REQUIREMENTS OF SJI BEFORE PROVIDING A BID. 12. MECHANICAL EQUIPMENT: SEE MECHANICAL PLANS. PIPES AND MECHANICAL EQUIPMENT
- SHALL BE SUPPORTED BY THE TOP CHORD OF THE STEEL JOISTS ONLY. 13. WHERE STEEL JOIST PASS THROUGH CMU WALLS, PROVIDE HALF INCH GAP BETWEEN THE
- CMU AND STEEL JOIST. PROVIDE ELASTOMERIC MATERIAL BETWEEN THE STEEL JOIST AND 14. PROVIDE CLOSURE ANGLE 3x3x3/8 AT ALL PERIMETER CONDITIONS TO FRAME OUT ALL ROOF
- PENETRATIONS UNLESS NOTED OTHERWISE. 15. JOISTS SHALL ALSO BE DESIGNED FOR AN ADDITIONAL 500 LB CONCENTRATED LOAD PLACED AT ANY POINT. THE MAXIMUM DEFLECTION SHALL BE L/600.

FREQUENCY OR QUANTITY

4 AT EACH CLIP TO TOP PLATE

4 AT EACH CLIP TO TOP PLATE

NO. VARIES AS PER LOADING

4 - 6 AT EACH CLIP TO RIDGE

1 AT EACH FLANGE AT 12" O.C.

AND AS PER LOADING

MIN. 2 AT EACH JOIST

1 AT EACH FLANGE

1 AT EACH FLANGE

1 AT EACH STUD

ROLLED CHANNEL

TOP PLATE

MIN. 3 AT EACH CLIP TO CEILING JOIST

MIN. 3 AT EACH CLIP TO RAFTER AND AS

MIN. 2 AT FLANGE AND AS PER LOADING

MIN. 6 AT OVERLAPPED WEB SECTION

1 AT EACH CONNECTION CLIP AND MAX

2 AT 24" O.C. AND AT MAXIMUM OF 12"

1 AT EACH STUD PER STRAP OR 3 AT

1 AT 24" O.C. OR 1 AT EACH BLOCKING

REQUIREMENT VARIES WITH DIFFERENT

4'-0" O.C., (1) 9" FROM END OF WALL OR

CONNECTION CLIP WITH COLD

1 AT 24" O.C. THROUGH FLANGE

1 AT 24" O.C. THROUGH WEB

EACH SIDE OF SPLICE

FROM EACH END OF BOARD OR CORNER

1 AT EACH JOIST

1 AT EACH JOIST

AND AS PER LOADING

PER LOADING

METAL BUILDING SYSTEM

1. PRE-MANUFACTURED METAL BUILDING SHALL BE DESIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS AND HAVING THREE (3) OR MORE YEARS EXPERIENCE IN THE DESIGN OF THE TYPE OF THE BUILDING G90 ZINC COATED, ACCORDING TO ASTM A525 INDICATED ON THE CONTRACT DOCUMENTS.

2. THE METAL BUILDING AND COMPONENTS SHALL BE DESIGNED TO CARRY ITS OWN WEIGHT PLUS ALL SUPERIMPOSED DEAD AND LIVE LOADS INCLUDING WIND LOADS FROM ALL DIRECTIONS AND INCLUDING ALL MECHANICAL, ELECTRICAL AND ARCHITECTURAL LOADS. VERIFY ALL LOADS WITH MECHANICAL, ELECTRICAL AND ARCHITECTURAL PLANS.

3. VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO DESIGN, FABRICATION OR ERECTION OF PRE-MANUFACTURED BUILDINGS. 4. PRE-MANUFACTURED BUILDING FRAMES AND THE CONNECTION OF FRAME TO THE FOUNDATION IS TO BE DESIGNED BY OTHERS AND IS NOT THE RESPONSIBILITY OF SER CONTRACTOR SHALL COORDINATE THE CONNECTION OF THE BUILDING FRAME WITH THE SUPPLIER PRIOR TO CONSTRUCTION.

THIS FOUNDATION HAS BEEN DESIGNED USING ASSUMED REACTIONS FROM THE PRE-MANUFACTURED BUILDING COMPONENTS AND IS FOR BID PURPOSES ONLY. THE CONTRACTOR SHALL SUBMIT BASE CONNECTION DETAILS (SIZE AND THICKNESS BASE PLATE AND DIAMETER AND LENGTH ANCHOR BOLTS) AND REACTIONS OF THE BUILDINGFRAMES TO THE ENGINEER PRIOR TO CONSTRUCTION SO THE DESIGN ASSUMPTIONS CAN BE VERIFIED. DEPTH OF ANCHOR BOLTS SHALL BE SUFFICIENT TO PREVENT CONICAL SHEAR OF THE CONCRETE FOUNDATION.

6. METAL BUILDING SUPPLIER SHALL PROVIDE AND SUBMIT FOR REVIEW ALL DESIGN CALCULATIONS AND DRAWINGS. ALLOW TWO (2) WEEKS FOR REVIEW OF SHOP

7. ANY ADDITIONAL COST OF FOUNDATION WORK REQUIRED BY REVISIONS OF THE FOUNDATION DESIGN AFTER PRE-MANUFACTURED BUILDING REACTIONS ARE SUBMITTED SHALL BE BY OTHERS. 8. METAL ROOF DOES NOT PROVIDE LATERAL BRACING FOR THE PURLINS, BRIDGING

SHALL BE DESIGNED AND SUPPLIED BY THE PURLIN MANUFACTURER. 9. REFER TO MECHANICAL DRAWINGS FOR ROOF SUPPORTED HVAC UNITS AND PROVIDE SUPPORT FOR ADDITIONAL LOADS AS REQUIRED. 10. MAXIMUM PURLIN SPACING SHALL BE 5'-0" O.C. WITH A MAXIMUM ALLOWABLE

TOTAL DEFLECTION OF L/240. 11. PRE-MANUFACTURED BUILDING MANUFACTURER SHALL PROVIDE ADDITIONAL FRAMING REQUIRED TO SUPPORT THE WEIGHT MECH'L UNITS AND PROVIDE PROPER SERVICEABILITY OF SUSPENDED MECHANICAL UNITS, MECHANICAL DUCTWORK, LIGHT FIXTURES, AND ALL OTHER SUSPENDED ITEMS AND ITEMS SUPPORTED ON TOP OF

12. DETAILS SHALL BE INCLUDED WHICH CLEARLY DETAIL RIGID FRAME BASE, HAUNCH RIDGE PLATE CONNECTIONS AND OTHER MEMBER-TO-MEMBER CONNECTIONS. 13. WIND LOAD DESIGN SHALL INDICATE METHOD OF TRANSFERRING FORCES TO: A. END WALL WIND LOAD TO SIDE WALL FOUNDATIONS. B. AT END BAY SIDE WALL WIND LOAD TO END WALL FOUNDATIONS, CALCULATIONS SHALL SHOW HOW WIND LOAD IS

TRANSFERRED TO EAVE STRUT. 14. PORTAL MOMENT FRAMES SHALL BE USED TO RESIST HORIZONTAL WIND FORCES. DESIGN OF ALL CONNECTIONS SHALL BE CLEARLY INDICATED.

15. DESIGN OF HORIZONTAL CROSS-BRACING IN PLANE OF ROOF FRAMING SHALL BE COMPLETE AND SHALL INDICATE METHOD OF TRANSFERRING TRIBUTARY WIND LOAD

TO RIGID FRAMES OR THE SIDE WALL PORTAL FRAMES. 16. ALL COLUMN BASE PLATES SHALL BE SET AND GROUTED UNDER FOR FULL CONTACT BEARING

17. ALL BASES FOR THE COLUMNS SHALL BE "PINNED" AND NOT ASSUMED AS FIXED. NO MOMENT FORCES SHALL BE TRANSFERRED INTO THE BUILDING FOUNDATION. 18. PROVIDE BUILDING CROSS SECTIONS AND ELEVATIONS WHICH CLEARLY SHOW THE PRIMARY STRUCTURAL RIGID MOMENT FRAME, PORTAL MOMENT FRAME, END WALL POST AND BEAMS, INTERIOR COLUMNS, AND OTHER STRUCTURAL MEMBERS THAT ARE TO BE USED ON THE SUBMITTED BUILDING. SIZE OF ALL STANDARD AISC MEMBERS AND OF ALL WEB AND FLANGE SECTIONS USED IN BUILT UP MEMBER SHALL

BE NOTED AS WELL AS ALL BOLTS AND WELDING. 19. DESIGN AND MEMBERS FOR FRAMED OPENINGS SHALL BE PROVIDED AS PART OF THE METAL BUILDING DESIGN.

20. LATERAL SUPPORT BEAMS SHALL BE DESIGNED BY METAL BUILDING SYSTEM 21. DEFLECTION CRITERIA

a. GIRTS SUPPORTING METAL STUD WALLS L/360 b. GIRTS SUPPORTING CMU WALLS L/480

c. HORIZONTAL DEFLECTION OF FRAME L/360 d. VERTICAL DEFLECTION OF FRAME L/240 e. LATERAL SUPPORT BEAMS FOR METAL STUD WALLS L/360 f. LATERAL SUPPORT BEAMS FOR CMU WALLS L/480

22. ALL STRUCTURAL STEEL SHALL BE FABRICATED, ERECTED, AND PAINTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AS AMENDED TO DATE AND THE CODE OF STANDARD PRACTICE, LATEST EDITION AS ADOPTED BY THE AMERICAN

INSTITUTE OF STEEL CONSTRUCTION, AMENDED AS FOLLOWS: a. SECTION 3. IN CASE OF DESCREPENCY, STRUCTURAL ENGINEERS DRAWINGS

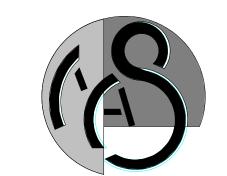
b. SECTION 4.2.1, DELETE FIRST TWO SENTENCES.

SECTION 4.2.2. ANY CHANGES, ADDITIONS OR DELETIONS REQUIRER APPROVAL FROM OWNER, CONTRACTOR AND ENGINEER.

SECTION 7. ALL REFERENCE TO OWNER SHALL BE CHANGED TO GENERAL CONTRACTOR

e. SECTION 7.9.3, THE CONTRACTOR SHALL PROVIDE THE SEQUENCE AND SCHEDULE OF CONSTRUCTION SECTION 7.9.4, THE CONTRACTOR TO DESIGN SHORES, JACKS OR LOADS.

23. STEEL SHOP SHALL BE AISC CERTIFIED AND LOCATED WITHIN 200 MILES FROM



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For Construction

PROJECT NUMBER

19206

may 17, 2021

SHEET NAME

General Notes

SHEET

Framing Notes

- 1. FOR GENERAL NOTES SEE SHEET S101, S102 AND S103.
- 2. FOR TYPICAL DETAILS SEE SHEETS S400's. 3. DIMENSIONS SHOWN ARE FOR GENERAL INFORMATION. COORDINATE WITH ARCHITECTURAL PLANS.
- 4. SEE ARCHITECTURAL ROOF PLAN FOR ROOF HATCHES.
- SEE MECHANICAL PLANS FOR MECHANICAL OPENINGS.
- 6. STEEL BEAM TO STEEL BEAM CONNECTION PER DETAIL
- 7. ALL STEEL COLUMN SHALL BE HSS6x6x3/8 UNO ON PLANS. 8. PROVIDE CMU LINTEL WHERE MECHANICAL DUCT PENETRATES CMU WALL PER TYPICAL CMU LINTEL DETAIL.
- 9. DESIGN OF MBS PURLINS UNDER UNITS WITH LOADS INDICATED ON THE DRAWINGS PER DESIGN CRITERIA. MBS PURLINS SHALL BE DESIGNED BY MBS SUPPLIER DESIGN PURLINS FOR 1/600. (MECHANICAL WEIGHT+ DEAD LOAD ONLY) COORDINATE OPENINGS WITH MECHANICAL PLANS.
- 10. PURLIN MANUFACTURER TO VERIFY THE MINIMUM ROW OF BRIDGING AND SIZE. 11. PROVIDE CMU LINTEL OVER ALL OPENINGS, SEE TYPICAL CMU LINTEL DETAIL.
- 12. DESIGN JOISTS UNDER UNITS WITH LOADS INDICATED ON THE DRAWINGS PER DESIGN CRITERIA STEEL JOIST MANUFACTURER TO PROVIDE STEEL JOIST SIZE (MAX. JOIST DEPTH TO BE AS SHOWN ON PLANS) DESIGN JOIST FOR L/600. (MECHANICAL WEIGHT+ DEAD LOAD ONLY) COORDINATE OPENINGS WITH MECHANICAL PLANS.
- 13. JOIST MANUFACTURE TO VERIFY THE MINIMUM ROW OF BRIDGING AND BRIDGING SIZE, AS REQUIRED BY SJI.
- 14. JOISTS UNDER MECHANICAL UNITS MAY BE DOUBLED IF REQUIRED.
- 15. FOR OPENING IN FLOOR AND AT MECHANICAL UNITS, SEE TYPICAL DETAILS.

REINFORCED CONCRETE MASONRY UNITS

- CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C90, AND AS FOLLOWS: * UNIT COMPRESSIVE STRENGTH: 1900 PSI MINIMUM AVERAGE NET AREA COMPRESSIVE STRENGTH.
 - * WEIGHT CLASSIFICATION: MEDIUM WEIGHT BLOCK
 - f'c = 3000 PSI * MORTAR SHALL BE TYPE
- * CONCRETE MASONRY ASSEMBLAGE (f'm) SHALL BE 1500 PSI ALL REINFORCING BARS SHALL BE NEW BILLET STEEL AND SHALL CONFORM TO ASTM A-615,
- GRADE 60, REINFORCING BARS #3 AND SMALLER MAY BE GRADE 40. CONCRETE SHALL CONFORM TO ASTM C150 TYPE I, LOW ALKALI, MASONRY CEMENTS
- ARE NOT ALLOWED.

4	TYPICAL REINFORCEMENT, U.N.O. (DRAWING NOTES GOVERN OVER THESE NOTES)						
4.							
	С	MU	VERTICAL	HORIZONTAL	OPENINGS AND DOWELS	CORNI	
	******	8"	#6 AT 32" O.C.	#5 AT 96" O.C.	(2) #5	(3) #	

6" #4 AT 32" O.C. #4 AT 96" O.C. (1) #4 (3) #412" (2) #6 AT 32" O.C. (2) #5 AT 96" O.C. (2) #6 INDICATES CMU WALL/COLUMN/PILASTER REINFORCED PER DETAIL 1/S402

ALL VERTICAL REINFORCEMENT TO BE IN CONCRETE OR GROUT FILLED CELLS, PROVIDE DOWELS FROM FOUNDATION, SAME SIZE AND SPACING.

- TYPICAL HORIZONTAL REINFORCEMENT SHALL BE TWO (2) #5 CONTINUOUS IN 8"x16" DEEP CONTINUOUS CONCRETE FILLED BOND BEAM BELOW EACH FLOOR AND ROOF LEVEL, UNLESS NOTED OTHERWISE. PROVIDE STANDARD DUR-O-WALL TRUSS-TYPE REINFORCING OR REVIEWED EQUIVALENT EVERY OTHER COURSE (16" ON CENTER) AND AS PER MANUFACTURER'S RECOMMENDATIONS. (9 GAGE MINIMUM GALVANIZED)
- VERTICAL CELLS TO BE FILLED SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR, UNOBSTRUCTED CONTINUOUS VERTICAL.
- WALL LENGTHS LESS THAN OR EQUAL TO FOUR (4) TIMES ITS THICKNESS SHALL BE CONSIDERED COLUMN SECTIONS AND SHALL BE REINFORCED WITH #5 VERTICAL REINFORCING IN FILLED CELLS, PROVIDE 1/4 INCH DIAMETER TIES EVERY COURSE (8" ON CENTER) IN LIEU OF DUR-O-WALL REINFORCING, PLACE TIES NOT LESS THAN 1 1/2" NOR MORE THAN 5" FROM THE SURFACE OF THE COLUMN.
- ALL CELLS CONTAINING VERTICAL REINFORCEMENT SHALL BE FILLED SOLIDLY WITH PEA GRAVEL CONCRETE (3/8" MAX. AGGREGATE SIZE) OR GROUT, EACH WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, GROUT OR CONCRETE SHALL BE A WORKABLE MIX SUITABLE FOR PUMPING WITHOUT SEGREGATION AND SHALL BE THOROUGHLY MIXED, GROUT OR CONCRETE SHALL BE PLACE BY PUMPING OR AN APPROVED ALTERNATE METHOD AND SHALL BE PLACED BEFORE INITIAL SET OR HARDENING
- OCCURS. GROUTING SHALL BE PER NCHA TEK 3-2 ALLOW C.M.U. WALLS TO SET AT LEAST 24 HOURS AFTER COMPLETION BEFORE GROUTING, GROUT OR CONCRETE SHALL BE CONSOLIDATED BY RESOLIDATION AFTER EXCESS MOISTURE HAS BEEN ABSORBED BUT BEFORE WORKABILITY IS LOST, THE FILLING OF ANY SECTION OF A WALL SHALL BE COMPLETED IN ONE DAY WITHOUT INTERRUPTIONS GREATER THAN ONE HOUR. AND PLACED IN LAYERS OF 4 FEET MAXIMUM.

10. WHERE THE CONCRETE OR GROUT POUR EXCEEDS 4 FEET IN HEIGHT, CLEANOUTS SHALL

- BE PROVIDED BY SUITABLE OPENINGS IN THE FACE SHELLS IN THE BOTTOM COURSE OF EACH CELL TO BE FILLED, OR OTHER APPROVED LOCATIONS, THE CLEANOUTS SHALL BE SEALED AFTER INSPECTION AND BEFORE BEING FILLED. 11. WHEN CELL FILLING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION
- JOINT SHALL BE FORMED BY STOPPING THE POUR OF CONCRETE OR GROUT APPROXIMATELY 1/2 INCH ABOVE OR BELOW BED JOINT. END WALLS AND CROSS WEBS FORMING CELLS TO BE FILLED SHALL BE FULL BEDDED
- IN MORTAR TO PREVENT LEAKAGE OF CONCRETE OR GROUT UNLESS WALL IS TO BE POURED SOLID. PROVIDE VERTICAL CONTROL JOINTS AT A MAXIMUM SPACING OF 24' (10' FROM CORNERS.
- DO NOT CONTINUE THE TYPICAL TRUSS TYPE JOINT REINFORCEMENT THROUGH THE JOINT. BOND BEAM REINFORCEMENT SHALL BE CONTINUOUS THROUGH THE JOINT. 14. DURING ERECTION, COVER TOP OF WALLS, PROJECTIONS AND SILLS WITH WATERPROOF SHEATHING AT THE END OF EACH DAY'S WORK.
- A. PREINSTALLATION CONFERENCE: AT LEAST 15 DAYS PRIOR TO THE START OF THE MASONRY CONSTRUCTION SCHEDULE, THE CONTRACTOR SHALL CONDUCT A MEETING TO REVIEW THE PROPOSED MIX DESIGNS. MATERIALS AND TO DISCUSS THE REQUIRED METHODS AND PROCEDURES TO ACHIEVE THE REQUIRED MASONRY CONSTRUCTION. THE CONTRACTOR SHALL SEND A PRE-CONCRETE CONFERENCE AGENDA TO ALL ATTENDEES 20 DAYS PRIOR TO
- THE SCHEDULED DATE OF THE CONFERENCE. 2. THE CONTRACTOR SHALL REQUIRE RESPONSIBLE REPRESENTATIVES OF EVERY PARTY CONCERNED WITH THE MASONRY WORK TO ATTEND THE CONFERENCE, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: A) CONTRACTOR'S SUPERINTENDENT
 - B) LABORATORY RESPONSIBLE FOR CONCRETE MIXES AND/ OR FIELD QUALITY
 - CONTROL AND SPECIAL INSPECTOR C) READY-MIX CONCRETE PRODUCER
 - D) MASONRY SUBCONTRACTOR

FOUNDATION NOTES

- 1. FOR GENERAL NOTES SEE SHEET S101 AND S102.
- 2. FOR TYPICAL DETAILS SEE SHEETS NUMBER S400 3. CONTRACTOR/SUBCONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING ANY WORK. THE CONTRACTOR AND OR SUBCONTRACTOR SHALL REPORT ANY DISCREPANCIES TO
- THE ARCHITECT AND ENGINEER BEFORE THE WORK HAS BEGUN. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DIMENSIONS.
- 5. REFER TO ARCHITECTURAL PLANS FOR FLOOR DRAIN LOCATIONS. SLOPE SLAB TO DRAINS, SEE ARCHITECTURAL PLANS FOR SLOPE.
- 7. REFER TO ARCHITECTURAL PLANS FOR FLOOR FINISHES. ENGINEER IS NOT RESPONSIBLE FOR TYPE OF FLOOR FINISHES.
- 8. PROVIDE SLAB CONTRACTION JOINTS PER TYPICAL DETAIL 9. THE TESTING LABORATORY SHALL BE THE OWNERS REPRESENTATIVE TO CONTROL THE PLACEMENT OF COMPACTED FILL. THE TESTING LABORATORY SHALL APPROVE THE SUBGRADE PREPARATION, THE FILL MATERIALS, THE METHOD OF PLACEMENT AND COMPACTION, AND COMPACTION, AND SHALL GIVE WRITTEN APPROVAL OF THE COMPLETED FILL. THE TESTING LABORATORY SHALL INDICATE ON THERE
- REPORT THE ELEVATION OF THE COMPACTED SUBGRADE. 10. ALL EARTHWORK AND GRADING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEERING STUDY. THE MORE STRINGENT REQUIREMENTS BETWEEN THESE SUBGRADE NOTES AND GEOTECHNICAL ENGINEERING STUDY SHALL GOVERN AND EXECUTED BY THE
- CONTRACTOR 11. IN THE EVENT FOUNDATION EXCAVATIONS ARE CARRIED TO A DEPTH GREATER THAN REQUIRED, THE ADDITIONAL DEPTH SHALL BE FILLED WITH THE SAME CONCRETE AS THAT USED FOR FOOTING AT NO ADDITIONAL EXPENSE TO THE
- OWNER. NO UNCONTROLLED FILL WILL BE PERMITTED. 12. THE FOOTING EXCAVATIONS SHALL BE KEPT FREE FROM LOOSE MATERIAL AND STANDING WATER.
- 13. THE FOUNDATION EXCAVATIONS SHOULD BE OBSERVED BY THE TESTING LABORATORY PRIOR TO STEEL OR CONCRETE PLACEMENT TO ASSESS THAT THE FOUNDATION MATERIALS ARE CAPABLE OF SUPPORTING THE DESIGN LOADS AND ARE CONSISTENT WITH THE MATERIALS DISCUSSED IN THE STUDY. THIS IS ESPECIALLY IMPORTANT TO IDENTIFY THE ACCEPTABILITY OF THE SUBGRADE OR FILL MATERIAL UNDER THE FOOTING. SOFT OR LOOSE SOIL ZONES ENCOUNTERED AT THE BOTTOM OF THE FOOTING OR BEAM EXCAVATIONS SHOULD BE EXCAVATIONS SHOULD BE REMOVED TO THE LEVEL OF COMPETENT SOIL AS DIRECTED BY THE TESTING LABORATORY. CAVITIES FORMED AS A RESULT OF
- 14. CARE SHOULD BE TAKEN TO SHAPE THE BUILDING AREAS SUCH THAT WATER WILL NOT POND AROUND THE STRUCTURE DURING CONSTRUCTION AND CAUSE THE NEAR SURFACE CLAYS TO SWELL. THE PROPOSED STRUCTURE SHALL BE ISOLATED FROM ANY MOISTURE SOURCE WHICH MIGHT ALSO CAUSE SWELLING OF THE CLAYS AFTER COMPLETION OF THE CONSTRUCTION.

CONCRETE OR SELECT FILL AS DETERMINED BY THE TESTING LABORATORY.

15. WHEN THE STRUCTURE IS COMPLETE, THE GROUND SURFACE SHOULD SLOPE AWAY FROM THE STRUCTURE AND DOWN SPOUTS SHOULD CARRY RUNOFF WATER SEVERAL FEET FROM THE BUILDING, PREFERABLY INTO PAVED AREAS OR SEWERS,

EXCAVATION OF SOFT OR LOOSE SOIL ZONES SHOULD BE BACKFILLED WITH LEAN

- BEFORE DISCHARGING. 16. DO NOT PLANT, OR LEAVE IN PLACE, DEEP ROOTED TREES WITHIN CLOSE PROXIMITY TO THE PERIMETER OF THE STRUCTURE. DEEP ROOTED TREES HAVE POTENTIAL TO REMOVE MOISTURE FROM BENEATH THE BUILDING IF PLANTED CLOSE ENOUGH TO ALLOW THE ROOT BULB EXTEND NEAR OR BENEATH THE
- 17. AIR CONDITIONING CONDENSER DRAIN LINES TO DISCHARGE WATER A MINIMUM OF 5 FEET FROM THE PERIMETER OF THE STRUCTURE. THE DISCHARGE AREA SHALL HAVE SUFFICIENT SLOPE AWAY FROM THE STRUCTURE TO PREVENT STANDING
- 18. THE FINAL ONE (1) FOOT OF FILL OUTSIDE THE BUILDING AREA SHOULD CONSIST OF A COHESIVE CLAYEY (CL) SOIL. FILL CAN NOT BE ALLOWED TO DRY OUT DURING OR AFTER COMPACTION. (P1 BETWEEN 15 AND 25)
- 19. NOTE THAT SOME LEVELS OF RISK ARE ASSOCIATED WITH ALL FOUNDATION SYSTEMS AND THERE IS NO SUCH THING AS A "ZERO RISK" FOUNDATION. IT ALSO SHOULD BE NOTED THAT THE FOUNDATION PROVIDED IS NOT DESIGNED TO RESIST SOIL MOVEMENT AS A RESULT OF SEWER/PLUMBING LEAKS, EXCESSIVE IRRIGATION, NON UNIFORM IRRIGATION, POOR DRAINAGE, AND WATER PONDING
- NEAR THE FOUNDATION SYSTEM. 20. CONSTRUCTION FOLLOWING WET WEATHER PERIODS WILL LIKELY ENCOUNTER DIFFICULTIES DUE TO THE WET OR SOFT SURFACE SOILS BECOMING A GENERAL HINDRANCE TO EQUIPMENT DUE TO RUTTING AND PUMPING OF THE SOIL SURFACE. IF THE SUBGRADE CANNOT BE ADEQUATELY COMPACTED TO MINIMUM DENSITIES AS DESCRIBED ABOVE, ONE OF THE FOLLOWING MEASURES WILL BE REQUIRED: a) REMOVAL AND REPLACEMENT WITH SELECT FILL;
- b) CHEMICAL TREATMENT OF THE SOIL TO DRY SOIL AND INCREASE THE STABILITY OFTHE SUBGRADE,
- c) DRYING BY NATURAL MEANS.

21. See detail 6/S601 for mechanical pad

SLAB ON GRADE	
THICKNESS	5.0 INCHES
REINFORCING (EACH WAY)	#4 AT 14" O.C.
REINFORCING LOCATION	MID DEPTH
VISQUEEN	15 MIL
CONCRETE CHAIRS (NO PLASTIC CHAIRS ALLOWED)	3' O.C. EACH WAY

SUBGRADE PREPARATION

SITE PREPARATION

A. PREPARATION OF EXISTING GROUND ALL AREAS TO SUPPORT SELECT FILL SHALL BE STRIPPED OF ALL VEGETATION AND/OR ORGANIC TOPSOIL:

8 INCHES ADDITIONAL DEPTH OF REMOVAL: *30 INCHES EXTEND BEYOND BUILDING FOOT PRINT: 5 FEET EXPOSED SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF: 12 INCHES MOISTURE: (OPTIMUM MOISTURE CONTENT) -2 TO +2%

COMPACTION (ASTM D-698) (MAXIMUM DENSITY): B. SELECT FILL MATERIAL AMOUNT OF COMPACTED SELECT FILL: 54* INCHES NO ORGANIC OR OTHER PERISHABLE MATERIAL 2 INCHES

NO STONES LARGER THAN *FINISHED FLOOR SHALL BE AS INDICATED ON CIVIL DRAWINGS, INCREASE INDICATED AMOUNT OF FILL AS REQUIRED TO ACHIEVE MOST STRINGENT REQUIREMENT INCREASE EXCAVATION AS REQUIRED TO MEET MINIMUM AMOUNT OF SELECT FILL

FILL MATERIAL SHALL BE AS INDICATED ON THE GEOTECHNICAL REPORT.

C. PLACING SELECT FILL FILL LIFTS (LOOSE MEASURE, NOT EXCEEDING): D. COMPACTION OF SELECT FILL

MOISTURE: (OPTIMUM MOISTURE CONTENT) COMPACTION (ASTM D-698) (MAXIMUM DENSITY): E. COMPACTION TESTING ATTERBERG LIMITS (ONE AT A RATE OF):

COMPACTION (ONE TEST PER):

(MIN. OF 3 PER LIFT) COLUMN FOOTING SCHEDULE

8 INCHES

5,000 CU. YDS.

2,500 SQ. FT./ LIFT

-2 TO +2

98%

DIMENSIONS REINFORCING A - BARS B - BARS WIDTH LENGTH DEPTH QUANTITY SIZE QUANTITY SIZE REMARKS 4' - 0" 4' - 0" 1' - 0" 5 6 CF6.5 6' - 6" 6' - 6" 3' - 0" 7 6



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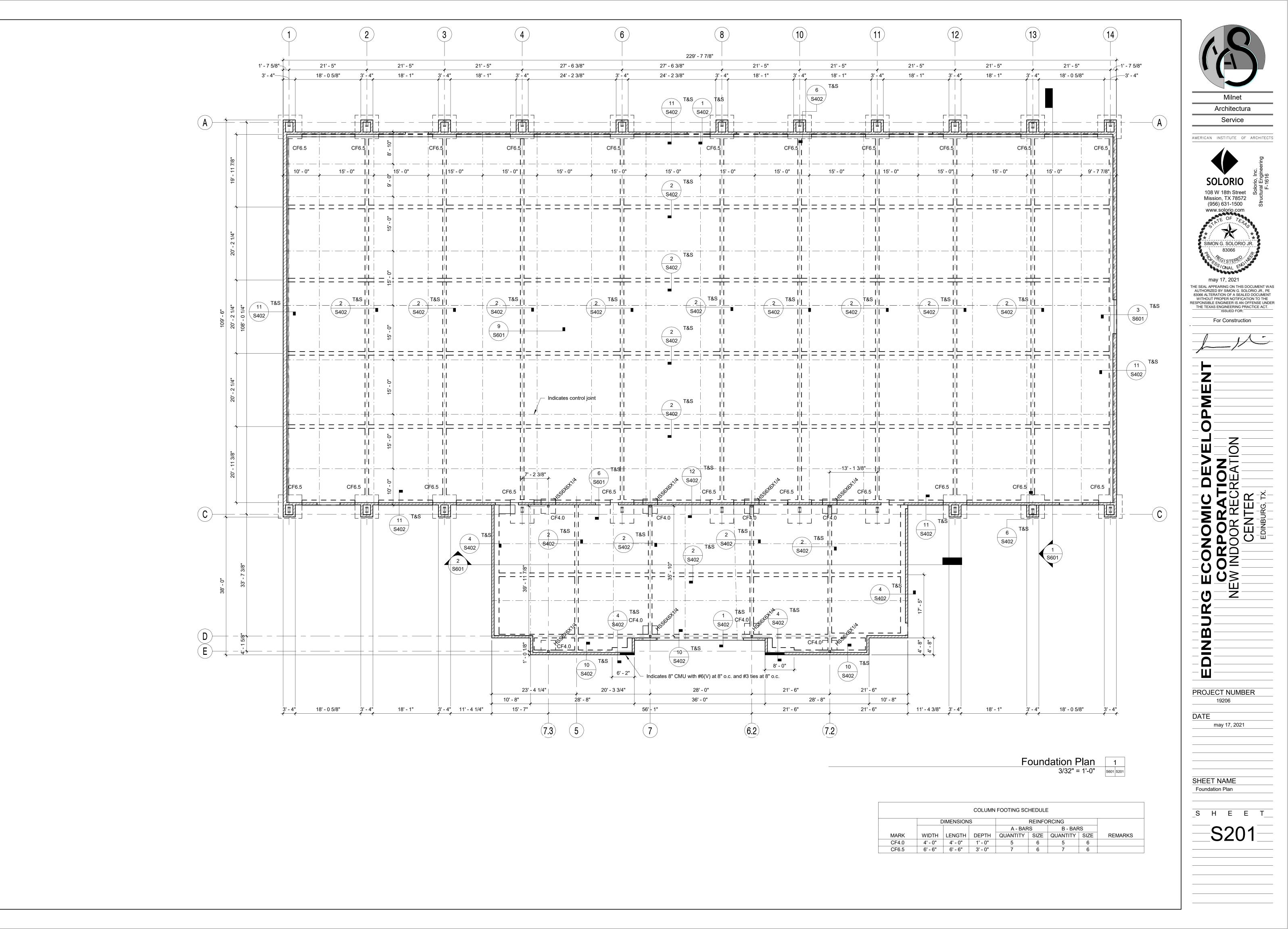
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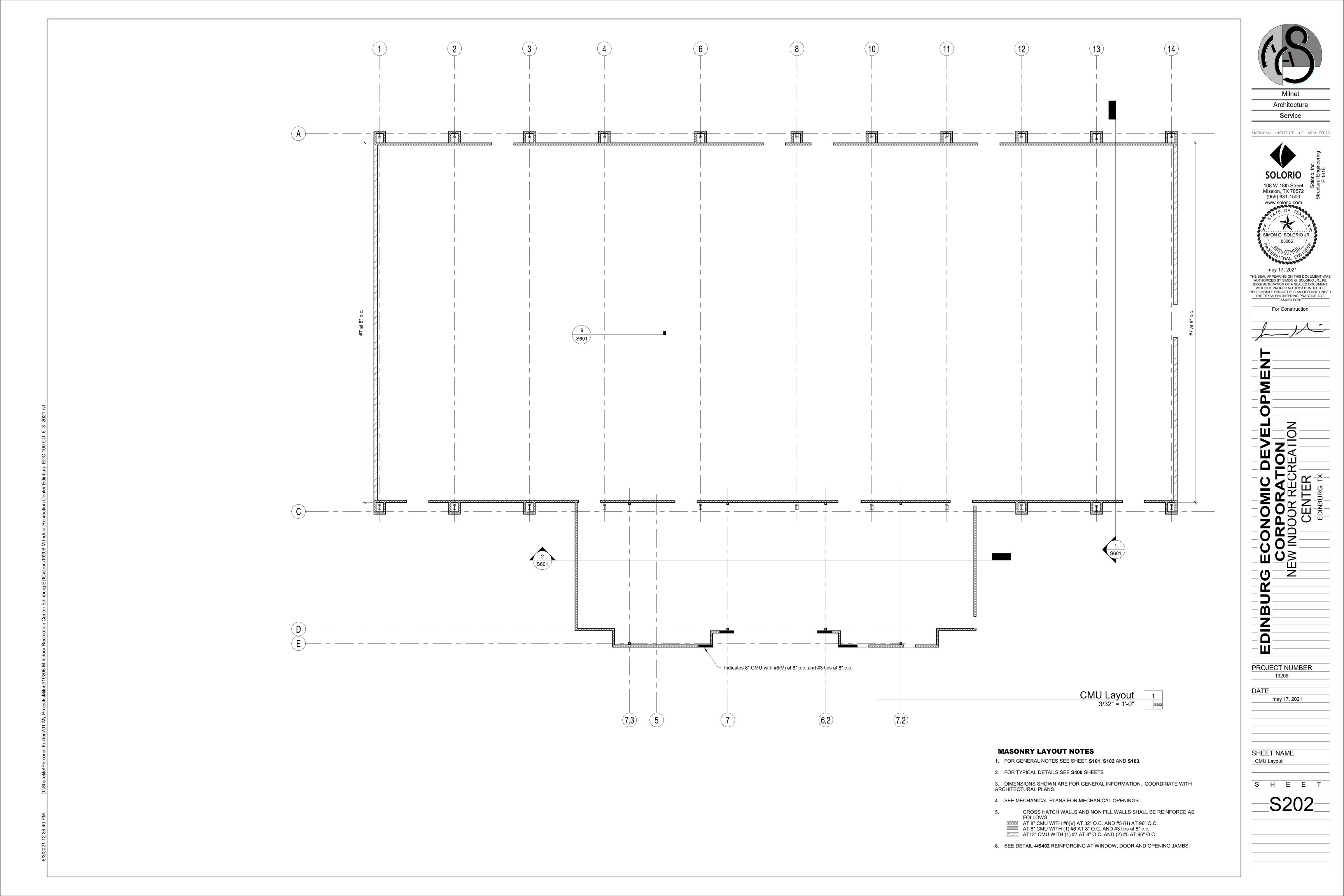
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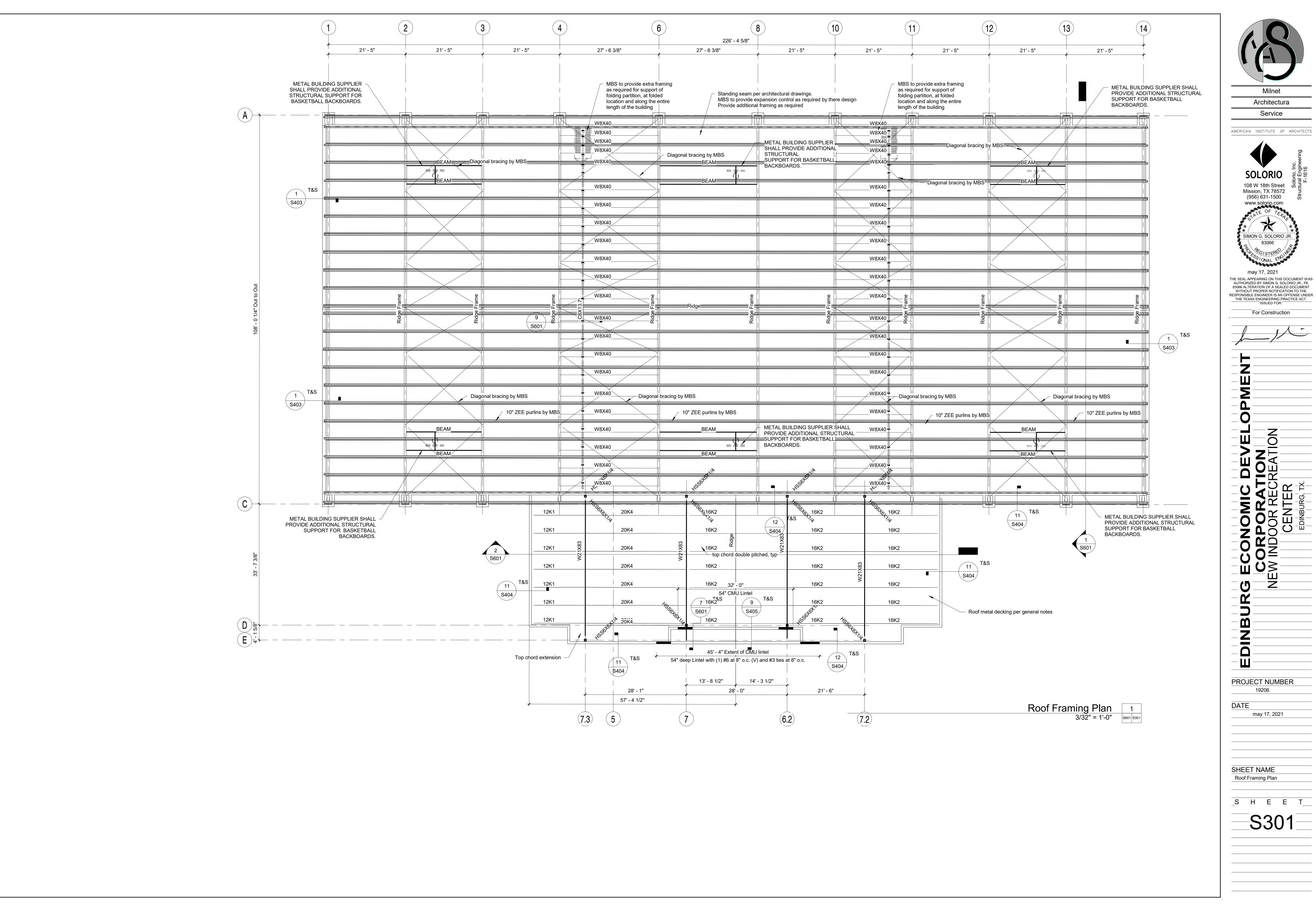
SHEET NAME

General Notes

SHEET







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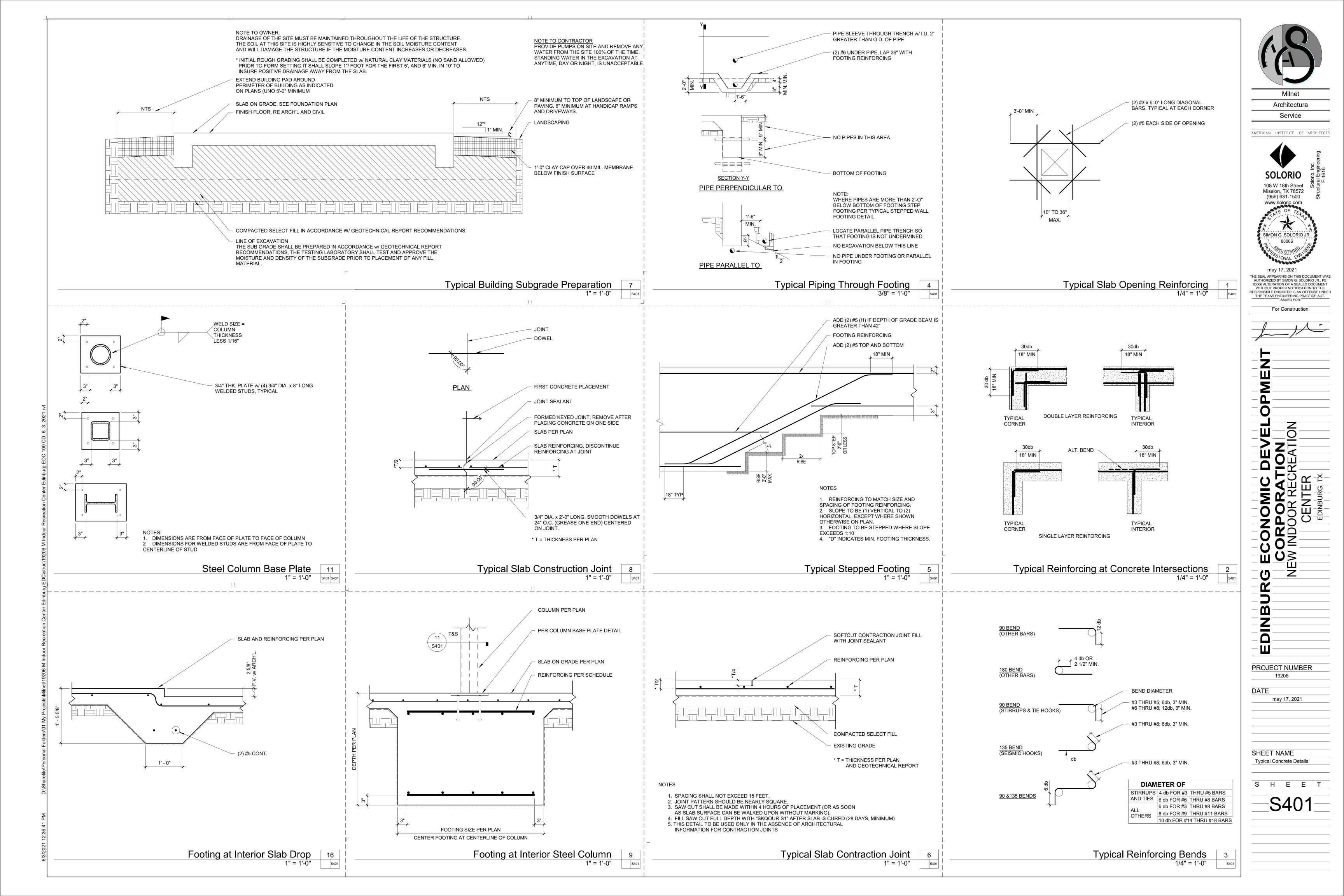
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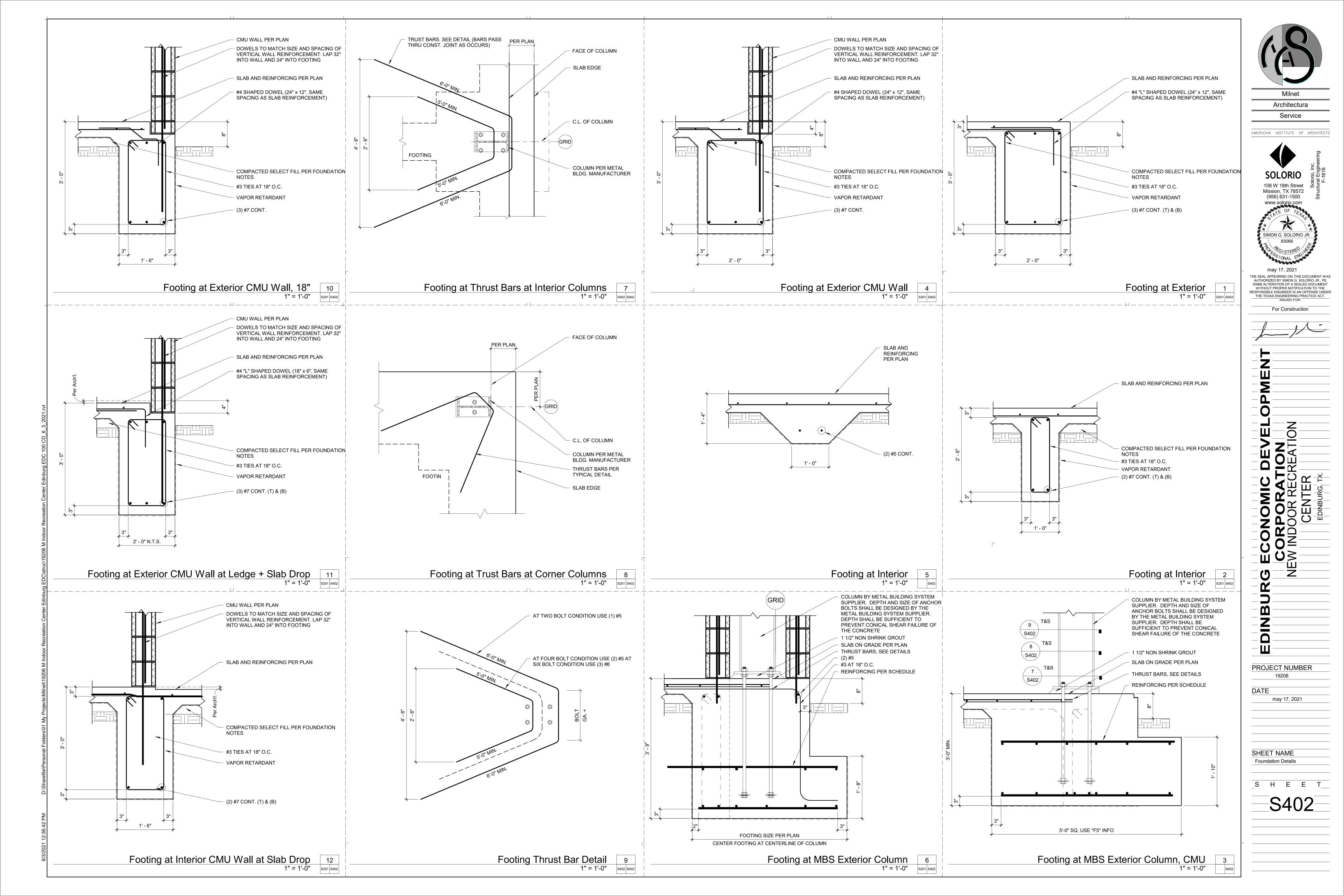
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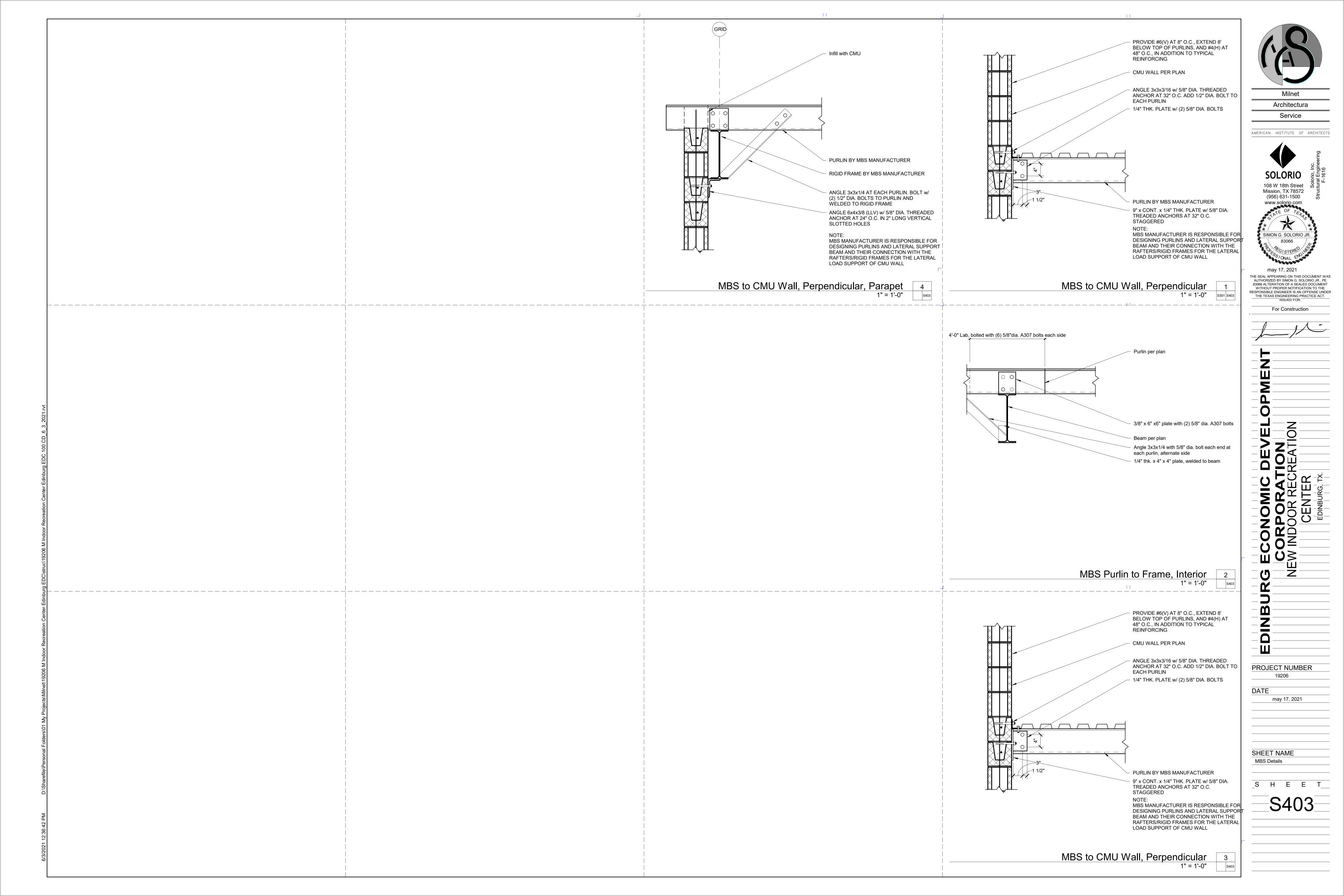
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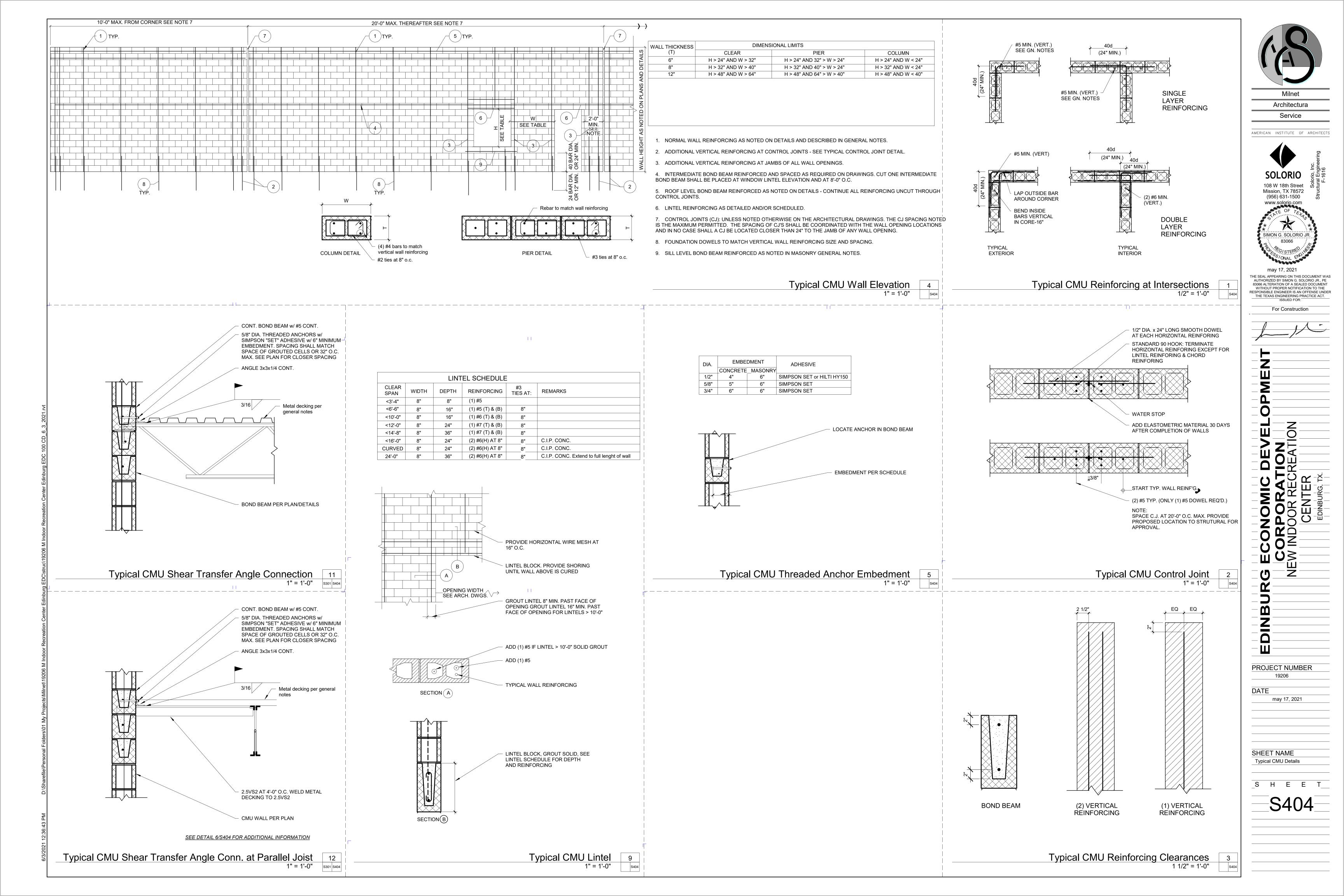
may 17, 2021

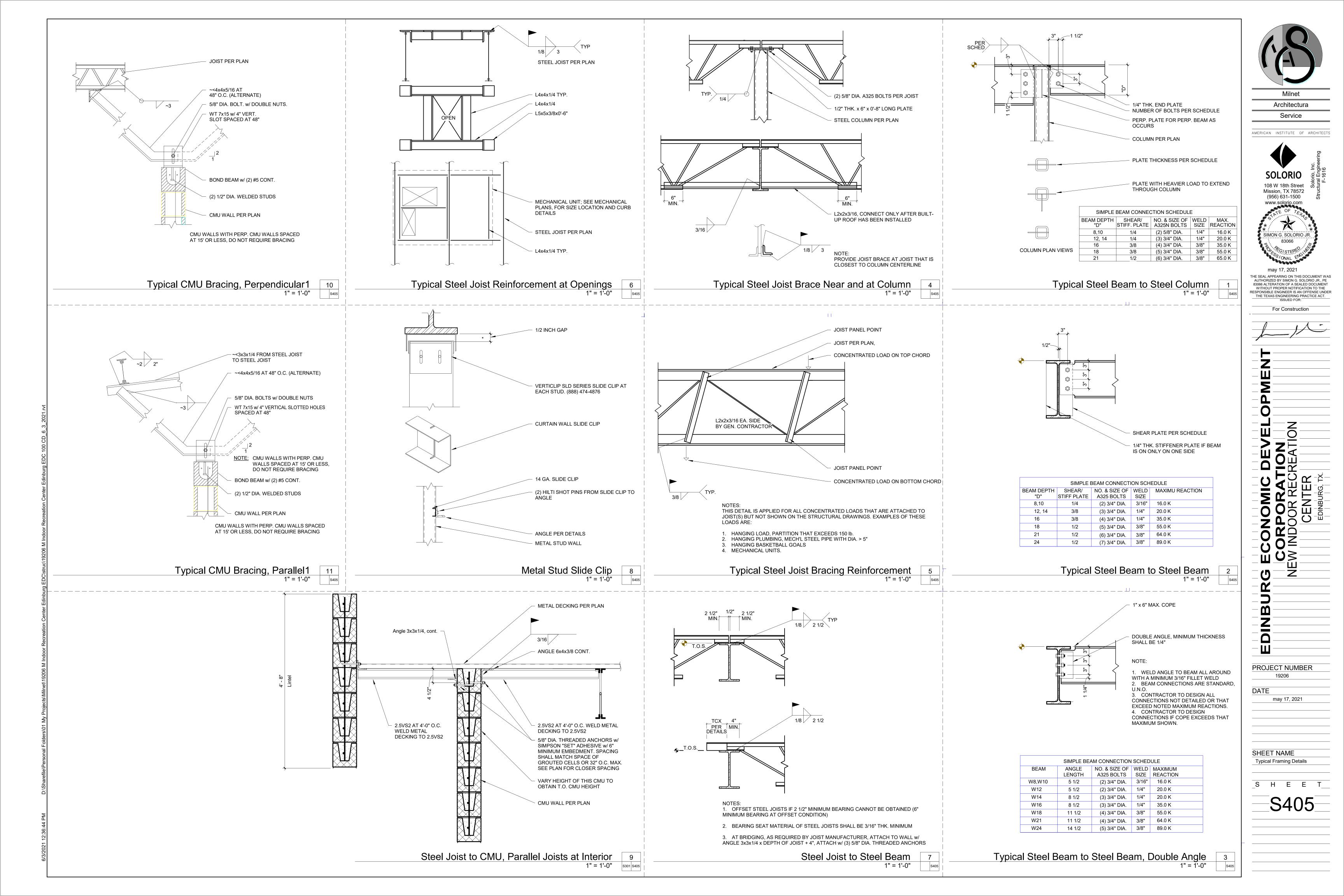
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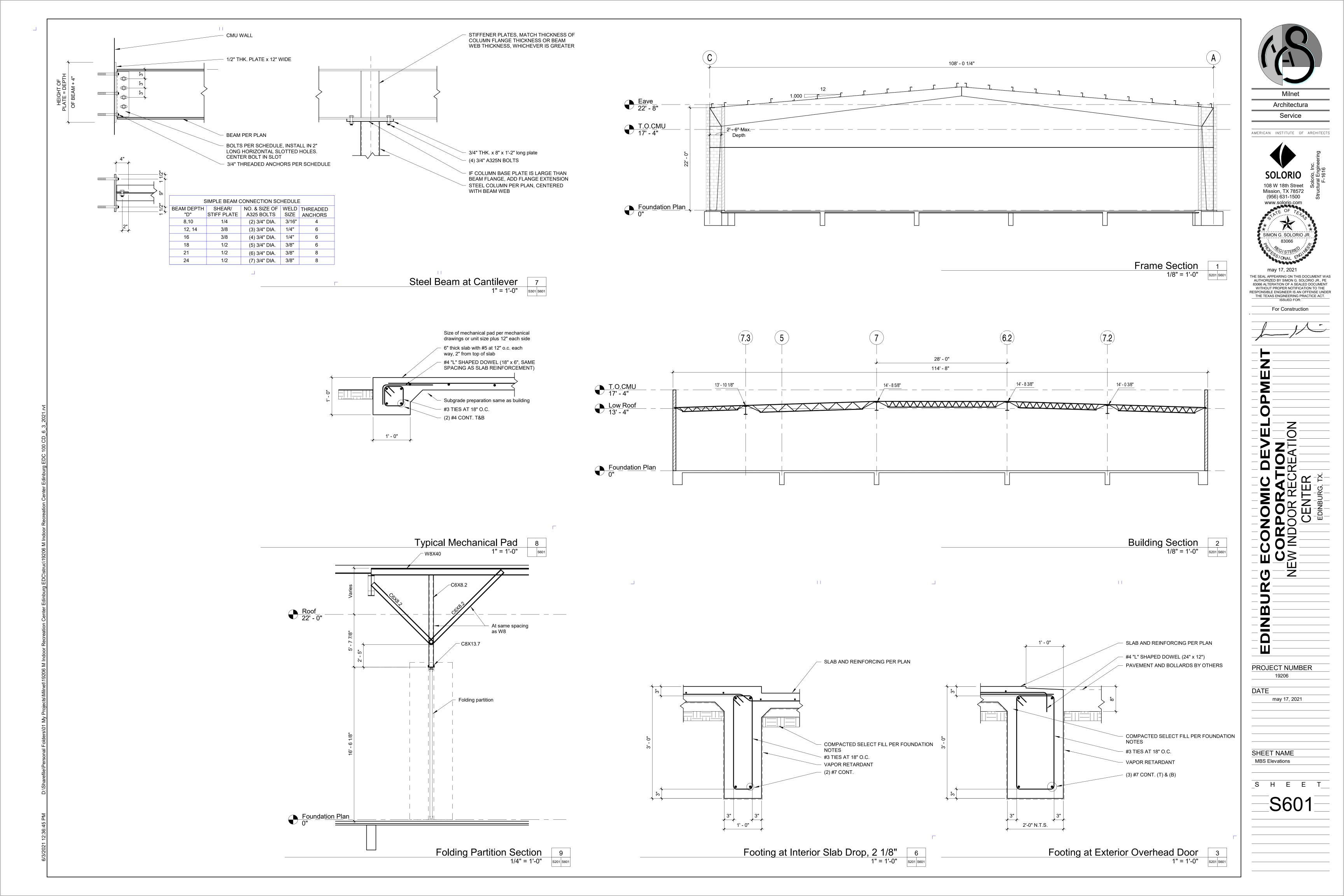


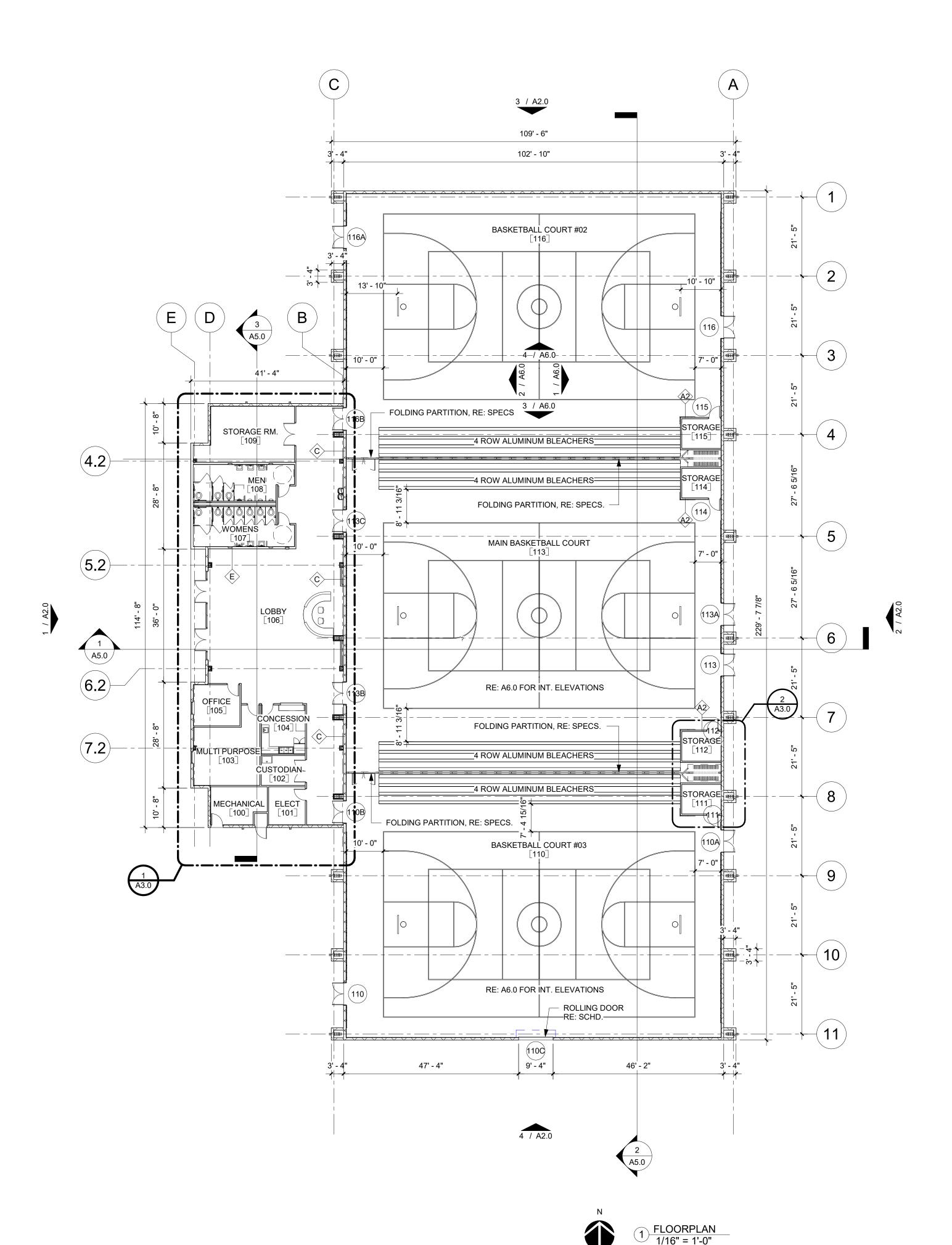












GENERAL NOTES:

- 1. RE: SHEET A7.0 FOR DOOR, WINDOW AND FINISH SCHD.
- 2. ALL DIMENSIONS TO FINISH FACE OF WALL.
- 3. ALL WALLS PAINTED W/EGGSHELL FINISH, U.N.O.
- 4. PROVIDE AND INSTALL STAINLESS STEEL CORNER GUARDS AT ALL NEW WALLS, TYP. RE: SPECS.
- 5. PROVIDE AND INSTALL ROOM SIGNAGE AND BLDG.
- PLAQUE, RE: A8.0 AND SPECS FOR ADDT. INFO.

 6. ALL PARTITIONS ARE (A) U.N.O. RE: 1/A1.3 FOR
- ALL PARTITION TYPES. 7. PROVIDE & INSTALL RECESSED FIRE EXT. CABINETS
- RM. #106 (LOBBY), RE: SPECS.8. PROVIDE & INSTALL WINDOW LOUVER BLINDS AT
- EACH NEW WINDOW LOCATION, RE: SPECS.

 9. CONCRETE SLAB SHALL BE DEPRESSED FOR NEW

WITH FIRE EXTINGUISHER, (F.E.) AT RM #104 AND

- WOOD FLOORING. RE: STRUCT.

 10. PROVIDE FURR-OUTS AT EVERY COLUMN LOCATION
- REFER TO DETAILS NO. 3 AND 4/A3.0
- 11. RE: STRUCTURAL FOR NEW MBS COLUMN LOCATIONS.
- 12. PRE-ENGINEERED METAL BUILDING TO BE PAINTED, TYP. RE: SPECS FOR ADDT. INFORMATION.
- 13. PROVIDE AND INSTALL 20' HIGH FOLDING PARTITIONS AT EACH BASKETBALL COURT. RE: SPECS FOR ADDT. INFORMATION.
- RE: A6.0 FOR TYPICAL INTERIOR ELEVATIONS AND ALL REQUIRED EQUIPMENT AT ALL BASKETBALL COURTS.
- RE: STRUCTURAL FOR NEW FOUNDATION PADS AT NEW MECHANICAL UNITS.
- 16. ALL DOORS SHALL MEET ADA MANEUVERING CLEARANCES AS SHOWN ON SHEET A9.0

SQ. FOOTAGE:

LEVEL ONE (BASKETBALL COURTS): 23,805 SF
LEVEL ONE (FRONT ENTRY & OFFICES): 4,640 SF

TOTAL (GROSS AREA): 28,445 SF

CONFLICTS AND DISCREPANCIES:

- 1. THE RELATION OF SPECIFICATIONS AND THE DRAWINGS SHALL BE EQUAL IN AUTHORITY AND PRIORITY. SHOULD THEY DISAGREE IN THEMSELVES, OR WITH EACH OTHER, BIDS SHALL BE BASED ON THE MOST EXPENSIVE COMBINATION OF QUALITY AND QUANTITY OF WORK INDICATED. THE APPROPRIATE WORK, IN THE EVENT OF THE ABOVE MENTIONED DISAGREEMENTS, SHALL BE DETERMINED BY THE ARCHITECT, AT NO ADDITIONAL COSTS TO THE OWNER.
- 2. ANY OMISSION AND/OR CONFLICT IN THE DRAWINGS AND/OR SPECIFICATIONS, MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITTEN FORMAT BY R.F.I. (REQUEST FOR INFORMATION) PRIOR TO OPENING OF PROPOSALS (BIDS).
- 3. FAILURE TO REPORT AN OMISSION/CONFLICT IN THE DRAWINGS AND/OR SPECIFICATIONS, PRIOR TO OPENING OF PROPOSALS (BIDS) SHALL BE DEEMED EVIDENCE THAT THE CONTRACTOR HAS ELECTED TO PROCEED IN THE MORE EXPENSIVE MANNER, AT NO ADDITIONAL COST TO THE OWNER.

INTENT OF DRAWINGS:

- THE DRAWINGS ARE DIAGRAMMATIC AND SMALL SCALE ONLY. THEY CONVEY THE INTENT OF THE WORK BUT DO NOT SHOW EVERY SINGLE CONSTRUCTION DETAIL.
- 2. CONTRACTOR IS RESPONSIBLE, AS THE CONSTRUCTION EXPERT, TO PROVIDE AND INSTALL ALL NECESSARY MATERIALS, COMPONENTS AND SYSTEMS NECESSARY FOR THE TURN KEY CONSTRUCTION OF THE PROJECT.



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JUNE 04, 2021

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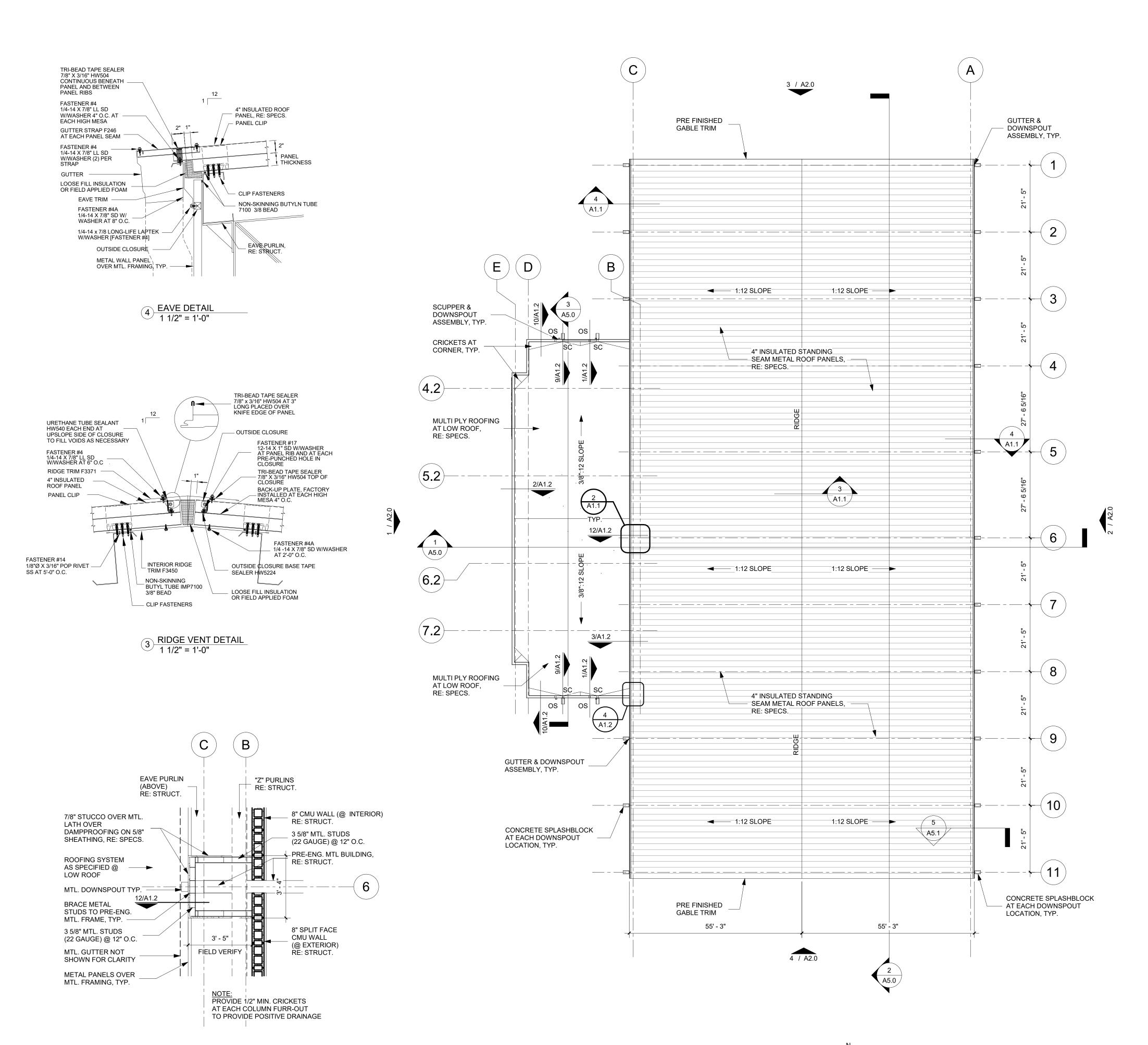
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DATE JUNE 04, 2021

ISSUED FOR BIDS

SHEET NUMBER

A1.0



2 MBS - FURR OUT DETAIL
3/8" = 1'-0"

GENERAL ROOF NOTES:

- PROVIDE ALL REQUIRED UTILITY / STRUCTURAL COMPONENTS AND/OR CONNECTIONS FOR THE FUNCTIONAL USE OF ALL CONTRACTOR SUPPLIED EQUIPMENT, REGARDLESS OF ANY OMISSIONS OR INCONSISTENCIES ENCOUNTERED IN THE CONSTRUCTION
- THE WORD 'PROVIDE' SHALL MEAN 'FURNISH AND INSTALL COMPLETE AND READY TO USE.'
- IF DISCREPANCIES APPEAR BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE HIGHER QUALITY, QUANTITY, AND PRICE SHALL SUPERSEDE.
- THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL BECOME FAMILIAR WITH THE PROJECT AND THE ON-SITE / OFF-SITE CONDITIONS PRIOR TO BIDDING OR COMMENCING WORK.
- ROOF SLOPES SHOWN ON DRAWING ARE GENERAL AND CONCEPTUAL ONLY. PROVIDE POSITIVE DRAINAGE TO ALL GUTTERS. VERIFY IN SHOP DRAWINGS. REFER TO STRUCTURAL DOCUMENTS FOR EXACT TOS/BOD ELEVATIONS.
- PROVIDE CRICKETS (1/2"/FT. MIN. SLOPE) AT HIGH SIDE OF ALL MECHANICAL UNITS, SMOKE VENTS, EXHAUST FANS & OTHER MISC. ROOF PENETRATIONS, INCLUDING EXTERIOR MBS COLUMN FURR OUTS TO SHED WATER AROUND & TO ENSURE POSITIVE ROOF
- ALL EXPOSED FLASHING AND THEIR ACCESSORIES SHALL BE AS SPECIFIED. PAINT ALL METAL FLASHING THAT IS NOT PRE-FINISHED (TYP) AND VISIBLE FROM THE GROUND.
- ALL PITCH PANS SHALL BE SOLDERED CLAD METAL AND RECEIVE EITHER MECHANICALLY ATTACHED GOOSENECK OR METAL BONNETS. METAL BONNETS SHALL BE SECURED WITH CLAMPING RING AND SEALANT. SPECIAL CARE GIVEN TO WASH ALL METAL PRIOR TO INSTALLATION.
- PROVIDE NEW CONCRETE SPLASH BLOCKS AT ALL DOWNSPOUT DISCHARGE LOCATIONS.
- 10. ALL EQUIPMENT CURBS TO BE SET OR RAISED AS NECESSARY TO MAINTAIN 10" MINIMUM HEIGHT ABOVE FINISHED ROOF SURFACE.
- MECHANICAL, ELECTRICAL, AND PLUMBING ROOF EQUIPMENT SHOWN ON THIS PLAN IS FOR GENERAL ARCHITECTURAL INFORMATION ONLY. REFER TO MEP DOCUMENTS FOR ROOFTOP EQUIPMENT NOT SHOWN, AND FOR ADDITIONAL REQUIREMENTS AND COORDINATION.
- REFER TO MEP DOCUMENTS FOR THE PIPE SUPPORT LOCATIONS, TYPE, AND DETAILS. PAD SHALL BE MIN 2" WIDER THAN SUPPORT IN ALL DIRECTIONS.
- GUTTERS SHALL BE PRE-FINISHED GALVANIZED STEEL, SIZE PER ROOF PLAN, UNO. PROVIDE PRE-FINISHED 1/4" x 1 1/2" GALVANIZED STEEL BENT PLATE BRACKETS AND PRE-FINISHED 1" GALVANIZED STEEL SPACERS AT 36" O.C. MAX, STAGGER WITH EACH OTHER AT 18"
- PROVIDE PRE-FINISHED GUTTER EJ'S 30'-0" O.C. MAX.
- DOWNSPOUTS SHALL BE 4"x6" PRE-FINISHED GALVANIZED STEEL UNO AS INDICATED ON ROOF PLAN. PROVIDE PRE-FINISHED 2" GALVANIZED STEEL HANGERS AT 36" O.C. COORDINATE LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.

CONFLICTS AND DISCREPANCIES

- 1. THE RELATION OF SPECIFICATIONS AND THE DRAWINGS SHALL BE EQUAL IN AUTHORITY AND PRIORITY. SHOULD THEY DISAGREE IN THEMSELVES, OR WITH EACH OTHER, BIDS SHALL BE BASED ON THE MOST EXPENSIVE COMBINATION OF QUALITY AND QUANTITY OF WORK INDICATED. THE APPROPRIATE WORK, IN THE EVENT OF THE ABOVE MENTIONED DISAGREEMENTS, SHALL BE DETERMINED BY THE ARCHITECT, AT NO ADDITIONAL COSTS TO THE OWNER.
- 2. ANY OMISSION AND/OR CONFLICT IN THE DRAWINGS AND/OR SPECIFICATIONS, MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITTEN FORMAT BY R.F.I. (REQUEST FOR INFORMATION) PRIOR TO OPENING OF PROPOSALS (BIDS).
- 3. FAILURE TO REPORT AN OMISSION/CONFLICT IN THE DRAWINGS AND/OR SPECIFICATIONS, PRIOR TO OPENING OF PROPOSALS (BIDS) SHALL BE DEEMED EVIDENCE THAT THE CONTRACTOR HAS ELECTED TO PROCEED IN THE MORE EXPENSIVE MANNER, AT NO ADDITIONAL COST TO THE OWNER.

INTENT OF DRAWINGS:

1 ROOF PLAN 1/16" = 1'-0"

- 1. THE DRAWINGS ARE DIAGRAMMATIC AND SMALL SCALE ONLY. THEY CONVEY THE INTENT OF THE WORK BUT DO NOT SHOW EVERY SINGLE CONSTRUCTION DETAIL.
- 2. CONTRACTOR IS RESPONSIBLE, AS THE CONSTRUCTION EXPERT, TO PROVIDE AND INSTALL ALL NECESSARY MATERIALS, COMPONENTS AND SYSTEMS NECESSARY FOR THE TURN KEY CONSTRUCTION OF THE PROJECT.



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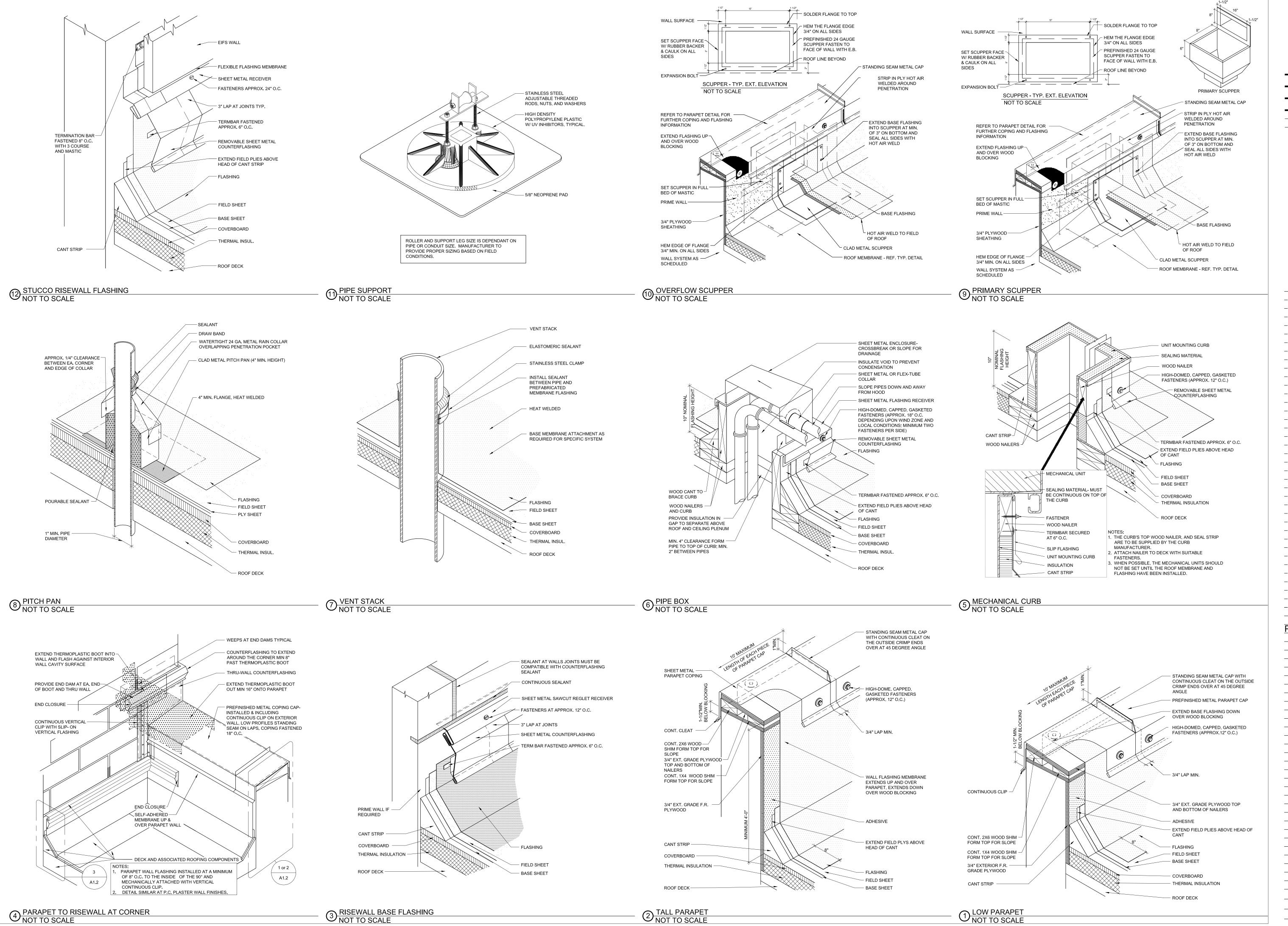


JUNE 04, 2021

PROJECT NUMBER 219014

> DATE JUNE 04, 2021

ISSUED FOR BIDS



MILNET **ARCHITECTURAL** SERVICES

AMERICAN INSTITUTE OF ARCHITECTS

JUNE 04, 2021

 $\square \square$

PROJECT NUMBER 219014

JUNE 04, 2021

ISSUED FOR BIDS

BUILDING CODE SUMMARY:

- 2015 INTERNATIONAL BUILDING CODE
- 1. PROJECT: EDINBURG EDC INDOOR RECREATION CENTER AT "EL TULE"
- 2. LOCATION: 700 S. VETERANS BLVD., EDINBURG, TEXAS
- 3. PRIMARY OCCUPANCY: GROUP A-3 ASSEMBLY
- 4. TYPE OF CONSTRUCTION: II-B
- 5. AUTOMATIC FIRE SUPPRESSION: YES
- 6. ACTUAL BUILDING AREA: LEVEL ONE (BASKETBALL COURTS): 23,805 SF LEVEL ONE (FRONT ENTRY & OFFICES): 4,640 SF TOTAL (GROSS AREA):
- 7. BUILDING AREA & HEIGHT LIMITATIONS:

TYPE II B: 55 FT. ABOVE GRADE PLANE CURRENTLY HAVE: 25 FT. ABOVE GRADE TYPE II B: 38,000 SF. ALLOWABLE (S1) CURRENTLY HAVE: 28,445 SF

8. PLUMBING FIXTURE COUNT 400 MALES

LAVATORIES:

WATER CLOSETS: 3.2 REQUIRED, 7 PROVIDED LAVATORIES: 2 REQUIRED, 3 PROVIDED

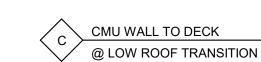
400 FEMALES

WATER CLOSETS: 6.15 REQUIRED, 7 PROVIDED 2 REQUIRED, 3 PROVIDED

DRINKING FOUNTAINS: 1 REQUIRED, 2 PROVIDED 1 MOP SINK PROVIDED

9. TOTAL OCCUPANCY BY DESIGN LOAD: 800 OCCUPANTS

EXTERIOR <u>INTERIOR</u> **EXTERIOR** <u>INTERIOR</u> _UNDERSIDE OF DECK UNDERSIDE OF DECK FOAM INJECTED **INSULATION AT** EXT. WALL, TYP. 5/8" GYPSUM BD. (STANDARD) FOAM INJECTED 5/8" GYPSUM BD. (STANDARD) TEXTURED & PTD. OVER 3/4" RE: SPECS. INSULATION AT TEXTURED & PTD. OVER 3/4" METAL 'Z' CHANNELS @ 24" EXT. WALL, TYP. METAL 'Z' CHANNELS @ 24" RE: SPECS. VERTICAL REINF. 3/4" FOIL FACED POLYISO CONT. 3/4" FOIL FACED POLYISO CONT. 8" SPLITFACE CMU, RE: STRUCTURAL INSULATION BOARD, TO DECK. INTEGRATED COLOR. INSULATION BOARD, TO DECK. SEALED, TYP. INSTALL BETWEEN 'Z' CHANNELS. INSTALL BETWEEN 'Z' CHANNELS. 8" SPLITFACE CMU, INTEGRATED COLOR. VERTICAL REINF. 16' - 0" AFF SEALED, TYP. RE: STRUCTURAL 16' - 0" AFF F.V. HEIGHT AT
CMU TRANSITION FOAM INJECTED **INSULATION AT** 5/8" GYPSUM BD. (SOUND 5/8" GYPSUM BD. (SOUND EXT. WALL, TYP. FOAM INJECTED ATTENUATING) TEXTURED & ATTENUATING) TEXTURED & RE: SPECS. **INSULATION AT** PTD. OVER 3/4" METAL 'Z' PTD. OVER 3/4" METAL 'Z' EXT. WALL, TYP. CHANNELS @ 24" O.C. CHANNELS @ 24" O.C. RE: SPECS. 8" SPLITFACE CMU, 3/4" FOIL FACED POLYISO CONT. 3/4" FOIL FACED POLYISO CONT. 5/8" GYPSUM BD. INTEGRATED COLOR. INSULATION BOARD, TO DECK. INSULATION BOARD, TO DECK. TEXTURED & PTD. SEALED, TYP. INSTALL BETWEEN 'Z' CHANNELS. INSTALL BETWEEN 'Z' CHANNELS. OVER 3/4" METAL 'Z' CHANNELS @ 24" O.C. 8" CMU, SMOOTH 8" SPLITFACE CMU, FACE 5/8" GYPSUM BD. (IMPACT 5/8" GYPSUM BD. (IMPACT INTEGRATED COLOR. RESISTANT) TEXTURED & RESISTANT) TEXTURED & PTD. OVER 3/4" METAL 'Z' PTD. OVER 3/4" METAL 'Z' 5/8" GYPSUM BD. FOAM INJECTED CHANNELS @ 24" O.C. CHANNELS @ 24" O.C. TEXTURED & PTD. **INSULATION AT** OVER 3/4" METAL 'Z' EXT. WALL, TYP. 3/4" FOIL FACED POLYISO CONT. CHANNELS @ 24" O.C. 3/4" FOIL FACED POLYISO CONT. RE: SPECS. INSULATION BOARD, TO DECK. INSULATION BOARD, TO DECK. INSTALL BETWEEN 'Z' CHANNELS. INSTALL BETWEEN 'Z' CHANNELS. VERTICAL REINF. VERTICAL REINF. RE: STRUCTURAL RE: STRUCTURAL BASE AS SCHD. BASE AS SCHD. **BOTH SIDES**



LINE OF CEILING

RE: FINISH SCHD.

5/8" GYPSUM BOARD,

BOTH SIDES, TEXTURED

AND PAINTED, RE: SPECS

CERAMIC TILE WAINSCOT AT RESTROOM SIDE, TYP.

6" X 25 GA. MTL. TRACK

CONT. 3 - 5/8" X ——

UNDERSIDE OF

LINE OF CEILING

RE: FINISH SCHD.

5/8" GYPSUM BOARD

TEXTURED & PAINTED

FULL HEIGHT OF WALL.

ANCHORED TO SLAB

FINISH FLOOR AS SCHD.

BRACE BACK

@ 4'-0" O.C.

CONT. BATT

RE: SPECS.

INSULATION -

3 - 5/8" X 25 GA.

MTL. STUDS @

FINISH FLOOR

5/8" 3 5/8" 8" 3 5/8" 5/8"

PLUMBING CHASE WALL

AS SCHD.

16" O.C.

TO STRUCTURE

LINE OF CEILING

RE: FINISH SCHD.

5/8" GYPSUM BOARD,

ANCHORED TO SLAB

3 - 5/8" X 25 GA.

BASE AS SCHD.

MTL. TRACK

BOTH SIDES

BOTH SIDES, TEXTURED

AND PAINTED, RE: SPECS

STRUCTURE

BOTH SIDES,

3 - 5/8" X 25 GA.

BASE AS SCHD.

MTL. TRACK

4 7/8" ++

A2 MTL. STUD WALL TO DECK

25 GA. MTL. TRACK

ROCKWOOL INSUL.

& FIRE COMPOUND

EACH SIDE.

HORIZONTAL

BRIDGING AS -

PER SPECS.

CONT. BATT

INSULATION

RE: SPECS.

16" O.C.

3 - 5/8" X 25 GA.

MTL. STUDS @

ANCHORED TO SLAB

LINE OF CEILING

RE: FINISH SCHD.

5/8" GYPSUM BOARD,

ANCHORED TO SLAB

3 - 5/8" X 25 GA.

BASE AS SCHD.

BOTH SIDES

4 7/8"

MTL. STUD WALL

MTL. TRACK

BOTH SIDES, TEXTURED

AND PAINTED, RE: SPECS

BASE AS SCHD.

BOTH SIDES

BRACE BACK

CONT. BATT

INSULATION

RE: SPECS.

6" X 25 GA. MTL. STUDS @

16" O.C.

AS SCHD.

FINISH FLOOR

BRACE BACK

@ 4'-0" O.C.

CONT. BATT

INSULATION

3 - 5/8" X 25 GA.

MTL. STUDS @

FINISH FLOOR

16" O.C.

AS SCHD.

RE: SPECS.

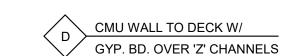
TO STRUCTURE -

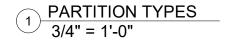
5/8" 6" 7/8"

7 1/2"

6" MTL. STUD WALL

TO STRUCTURE @ 4'-0" O.C.







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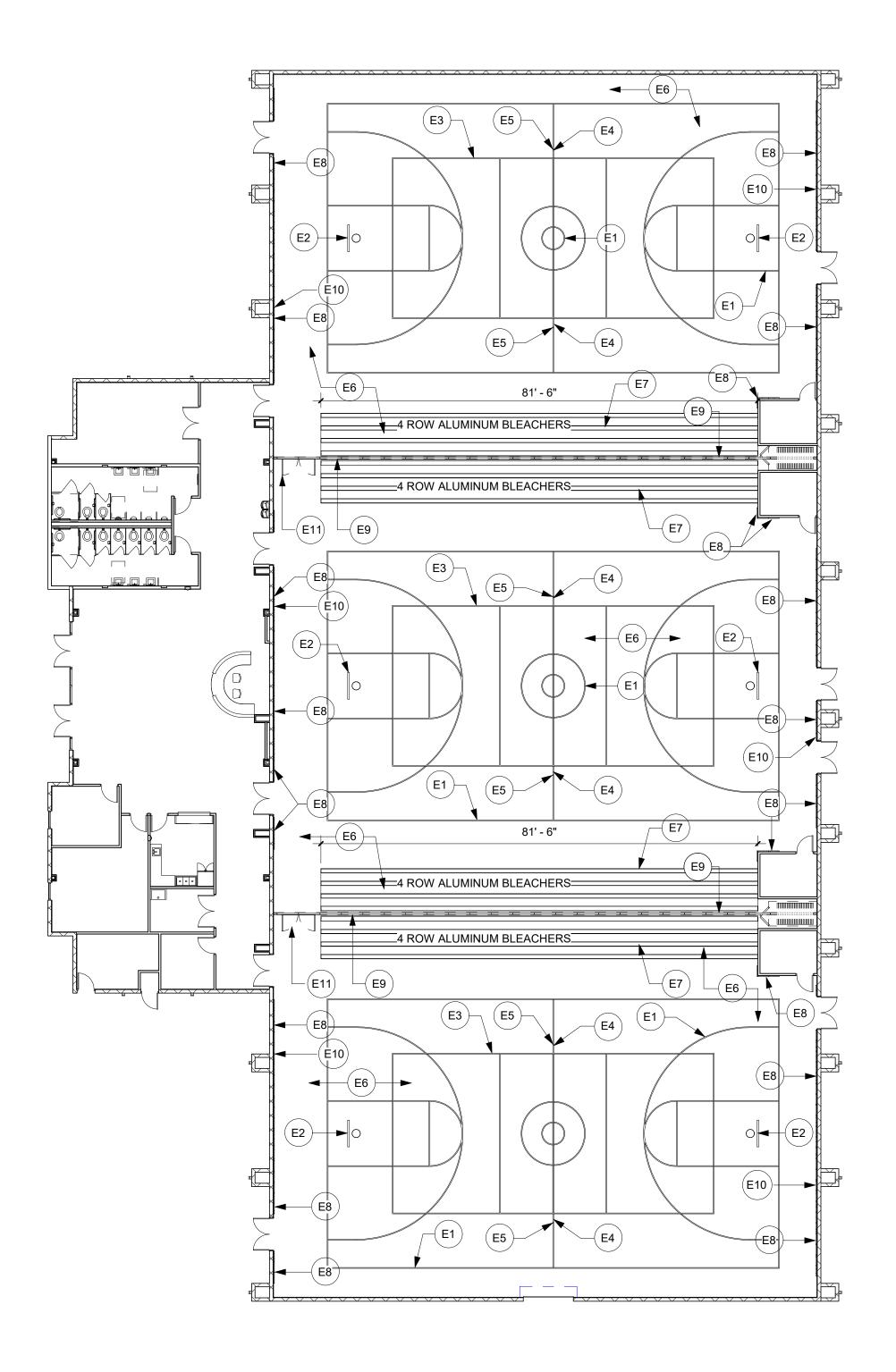


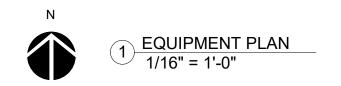
JUNE 04, 2021

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> DATE JUNE 04, 2021

ISSUED FOR BIDS





EQUIPMENT KEY NOTES (E):

ALL EQUIPMENT TO BE PROVIDED AND INSTALLED BY THE CONTRACTOR.

- PROVIDE AND INSTALL 2" WIDE BASKETBALL GAME LINES AS SHOWN ON PLAN. (U.I.L. REGULATION SIZE) LINES SHALL BE PAINTED.
- PROVIDE & INSTALL RETRACTABLE AND ADJUSTABLE HEIGHT
 BASKETBALL BACKSTOPS COMPLETE WITH RIM & NET AS SHOWN
 ON PLAN. RE: SPECS FOR ADDT. INFORMATION. PROVIDE STEEL
 BRACING TO STRUCTURE.
- PROVIDE AND INSTALL U.I.L. SIZE REGULATION 2" WIDE VOLLEYBALL GAME LINES AS SHOWN ON PLAN. LINES SHALL BE PAINTED.
- PROVIDE AND INSTALL STEEL VOLLEYBALL UPRIGHTS & NET AS SHOWN ON PLAN.
- PROVIDE SLEEVES EQUAL TO DRAPER 501006 3 1/2" FLOOR SLEEVE & COVER EQUAL TO DRAPER 501035 LOCKING BRASS COVER PLATE ASSEMBLY.
- PROVIDE & INSTALL MAPLE WOOD FLOORING SYSTEM AT BASKETBALL COURT AREAS. RE: SPECS FOR ADDT. INFO. RE: STRUCT. FOR DEPRESSED SLAB.
- PROVIDE AND INSTALL "TIP N ROLL" ALUMINUM BLEACHERS (4 ROW) AS MANUF. BY GT GRANDSTANDS, INC. OR EQUAL. PROVIDE W/RECESSED RUBBER BUMPERS AT BOTTOM OF BLEACHER FRAME TO PREVENT DAMAGE TO GYM FLOOR.
- (E8) PROVIDE AND INSTALL SPORTS WALL PADDING. RE: SPECS.
- PROVIDE AND INSTALL 20 FOOT HIGH FOLDING PARTITION WALLS AS SHOWN ON PLANS. RE: SPECS FOR ADDT. INFO.
- PROVIDE AND INSTALL WALL MOUNTED LED SCOREBOARDS (SECURE TO CMU WALL) RE: SPECS FOR ADDT. INFO.
- PROVIDE AND INSTALL 3'x7' PASS THRU DOORS (PAIR) AT EACH FOLDING PARTITION, RE: SPECS FOR ADDT. INFO.

CONFLICTS AND DISCREPANCIES:

- 1. THE RELATION OF SPECIFICATIONS AND THE DRAWINGS SHALL BE EQUAL IN AUTHORITY AND PRIORITY. SHOULD THEY DISAGREE IN THEMSELVES, OR WITH EACH OTHER, BIDS SHALL BE BASED ON THE MOST EXPENSIVE COMBINATION OF QUALITY AND QUANTITY OF WORK INDICATED. THE APPROPRIATE WORK, IN THE EVENT OF THE ABOVE MENTIONED DISAGREEMENTS, SHALL BE DETERMINED BY THE ARCHITECT, AT NO ADDITIONAL COSTS TO THE OWNER.
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JUNE 04, 2021

OR RECREATION CEN

AT "EL TULE"

OF EDINBURG ECONOMIC

ELOPMENT CORPORATION

EDINBURG, TX.

PROJECT NUMBER

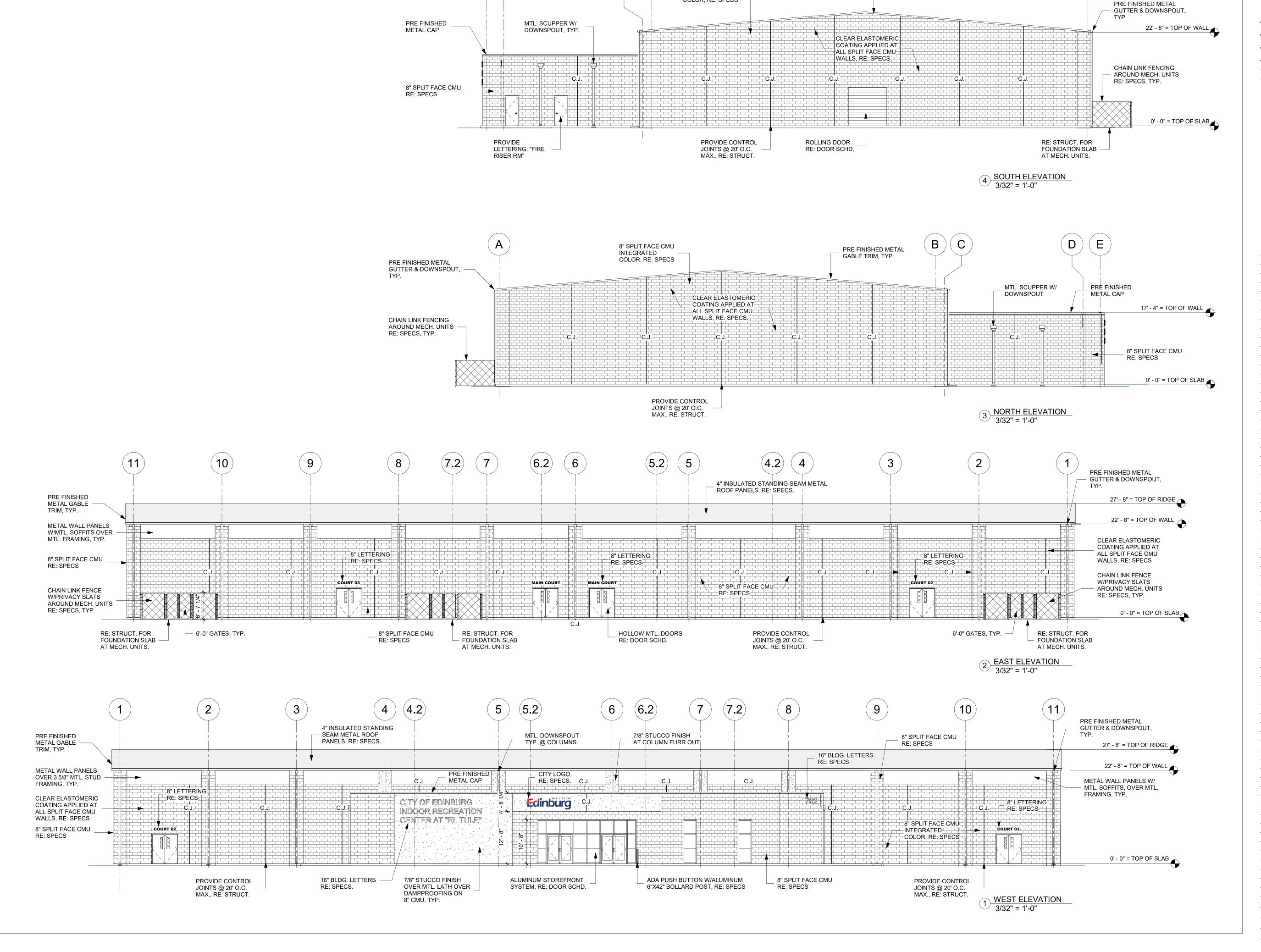
219014

DATE JUNE 04, 2021

ISSUED FOR BIDS

SHEET NUMBER

A1.4



 \mathbf{B}

8" SPLIT FACE CMU

COLOR, RE: SPECS

INTEGRATED

PRE FINISHED METAL

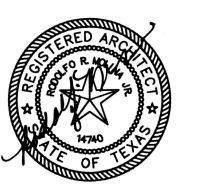
GABLE TRIM, TYP.



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JUNE 04, 2021

R RECREATION CENT

T "EL TULE"

EDINBURG ECONOMIC

PMENT CORPORATION

EDINBURG, TX.

PROJECT NUMBER

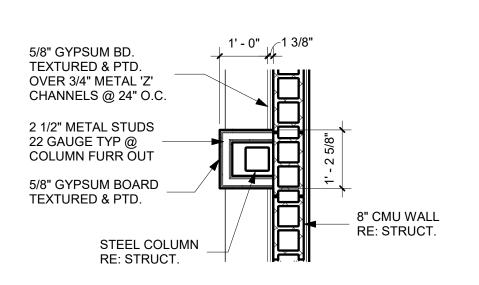
219014

DATE JUNE 04, 2021

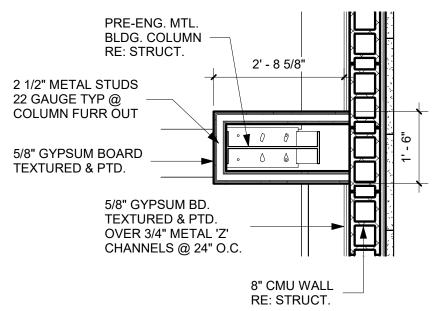
ISSUED FOR BIDS

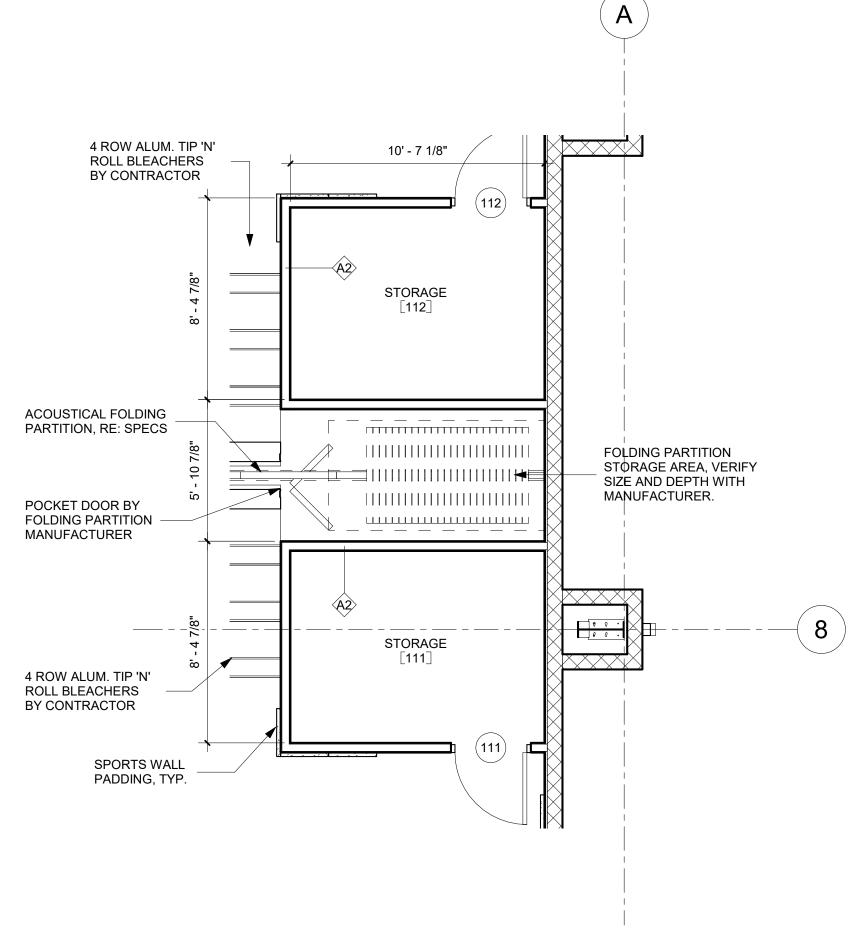
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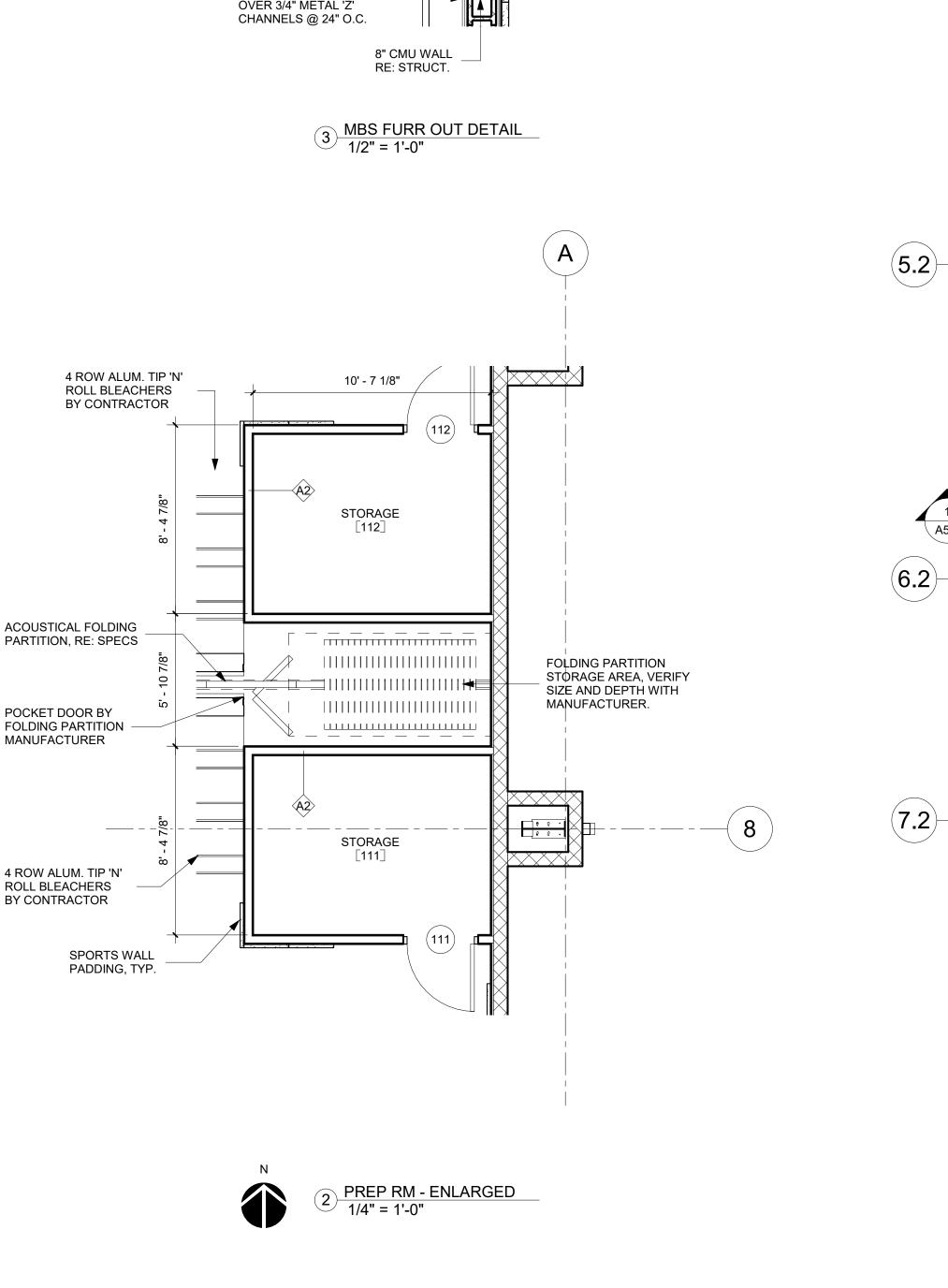
A2.0

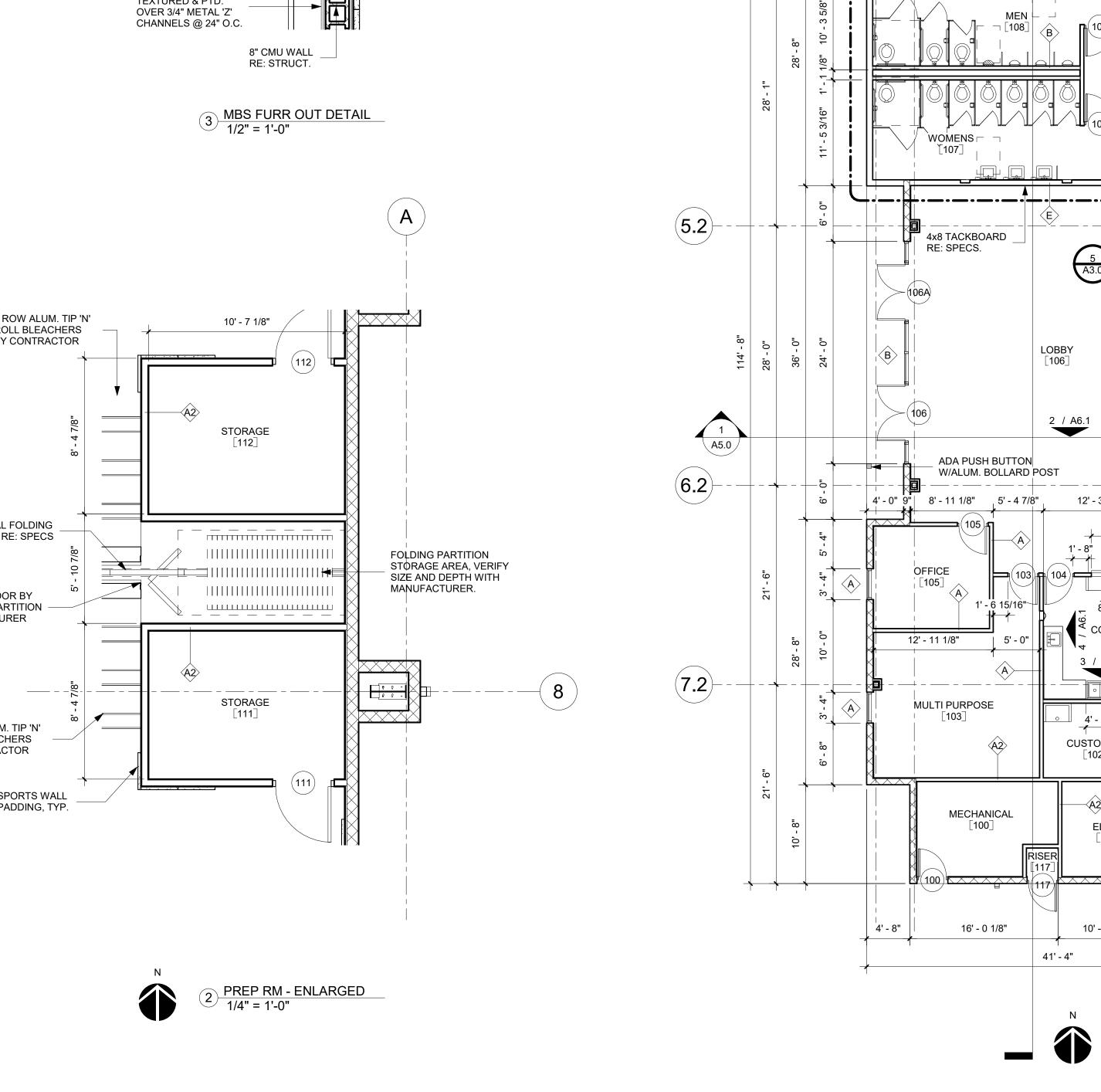


4 FURR OUT DETAIL 1/2" = 1'-0"









E D

4' - 8"

1' - 0 1/8" 4' - 1 5/8"

4.2

(C)

35' - 10 1/4"

36' - 8"

STORAGE RM.

В

1 A3.1

FIRE EXT. W.CAB.

4" MTL. STUD WALL BELOW T.V., TYP.

4" MTL. STUD WALL BELOW T.V., TYP.

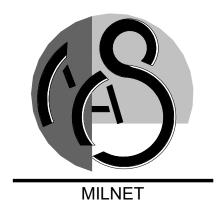
CONCESSION [104]

CUSTODIAN
[102]

10' - 3 1/4"

(102) &

10' - 4 5/8"



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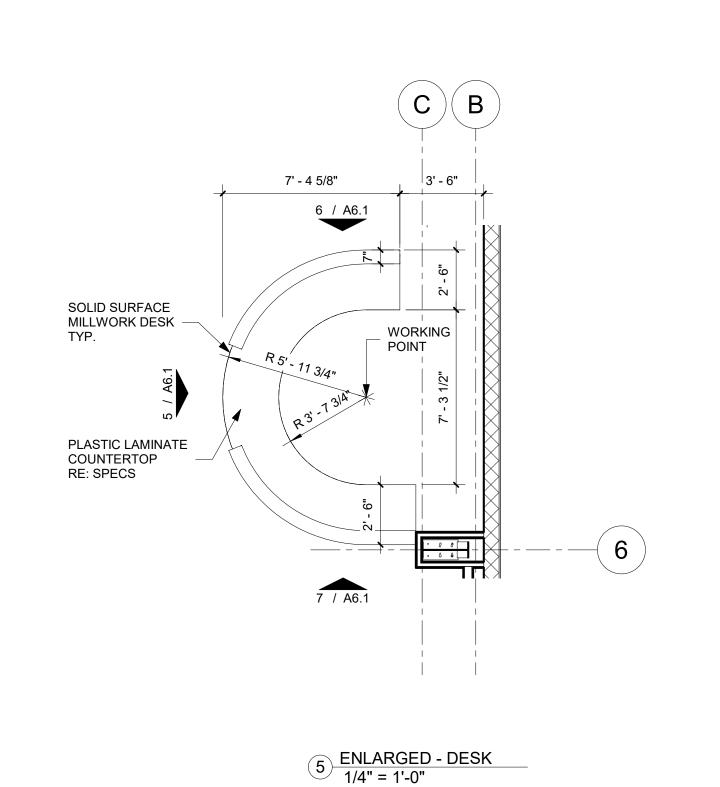


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TOILET ACCESSORIES LEGEND

MAR	DESCRIPTIO	MODEL	NOTE
(A)	STAINLESS STL GRAB BAR 36" LONG	B-6806-36	1 & 7
B	STAINLESS STL GRAB BAR 42" LONG	B-6806-42	1 & 7
(C)	FRAMED 1/4" PLATE GLASS MIRROR 18"x36"	B-290-1836	2 & 7
\bigcirc D \bigcirc	SURFACE MOUNTED AUTO. SOAP DISPENSER	B-2012	7 & 8
Ê	SURFACE MOUNTED TOILET TISSUE DISPENSER (MOUNT C.L. 8" FROM EDGE OF TOILET RIM).	B-265	6 & 9
F	RECESSED AUTOMATIC PAPER TOWEL DISPENSER	B-3974	3, 7 & 8
G	1/4" TEMPERED GLASS MIRROR (2' X 6') W/ ALUMINUM FRAME.	B-290-2472	1 & 7
(H)	1'-6" X 2'-0" SOLID PHENOLIC PARTITION PANEL		1 & 2

TOILET ACCESSORIES NOTES

- PROVIDE ALL NECESSARY ANCHORING PLATES AND FASTENERS.
- PROVIDE EXPANSION SHIELDS FOR CMU PTN FOR SECURE ATTACHMENT.
- COORDINATE WITH WALL PTN CONSTRUCTION FOR RECESSED
- COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURERS STANDARD COLORS.
- COORDINATE ELECTRICAL REQUIREMENTS AND ANCHORING.
- COORDINATE LOCATION WITH OTHER ACCESSORIES ON WALL.
- UNIT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. SEE SPEC SECTION 10 21 13
 - RECESSED PTD MIRRORS TOILET TISSUE DISP.
- ALL MOUNTING HEIGHTS FOR FIXTURES AND ACCESSORIES SHALL COMPLY WITH THE 2012 TEXAS ACCESSIBILITY STANDARDS.

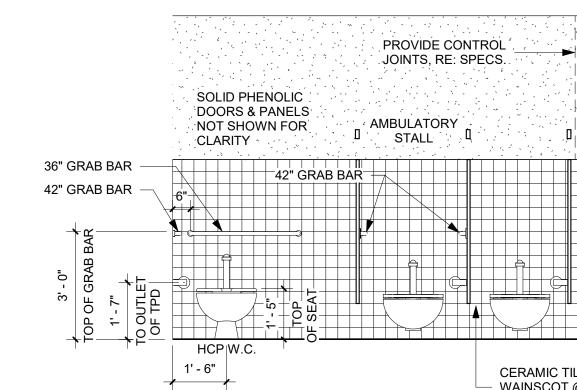
GENERAL NOTES

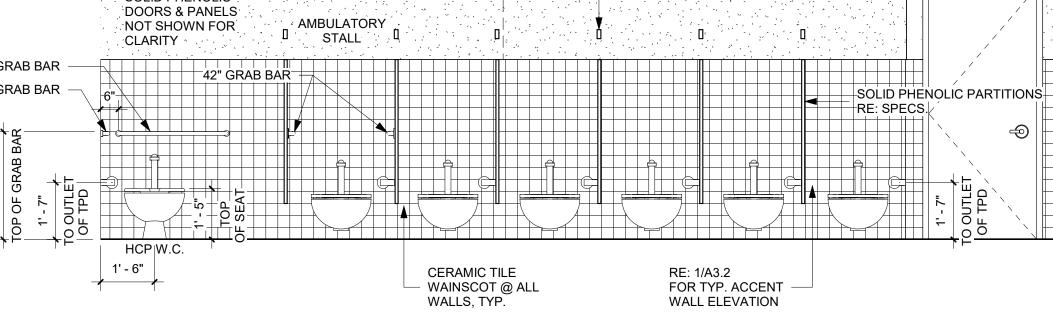
- PROVIDE AND INSTALL NEW 4X4 CERAMIC WALL TILE WAINSCOT UP TO 5'-0" AT ALL NEW RESTROOM WALLS. REMAINING WALL HEIGHT SHALL BE TEXTURED AND PAINTED GYP. BOARD.
- PROVIDE AND INSTALL A MOP HOLDER AT ROOM NO. 102, RE: SPECS.
- TOILET TISSUE DISPENSER SHALL BE MOUNTED CENTERLINE 8" FROM EDGE OF
- PROVIDE AND INSTALL A 3'-0" HIGH CERAMIC TILE WAINSCOT BEHIND MOP SINK AT ROOM NO. 102.
- PROVIDE AND INSTALL SOLID PHENOLIC DOORS (SELF-CLOSING) AT EVERY TOILET STALL, TYP. WALL TILE: REFERENCE 1/A3.2 FOR TYPICAL WALL TILE ACCENT ELEVATION DETAIL.
- FLOOR TILE: PROVIDE AND INSTALL A BORDER COLOR WITH THREE (3) ACCENTS
- AND A FIELD COLOR AT EACH RESTROOM. RE: 2/A3.2 FOR FLOOR TILE LAYOUT. 8. PROVIDE AND INSTALL A FLOOR DRAIN (F.D.) AT EVERY RESTROOM, TYP.



PROVIDE SKIRT

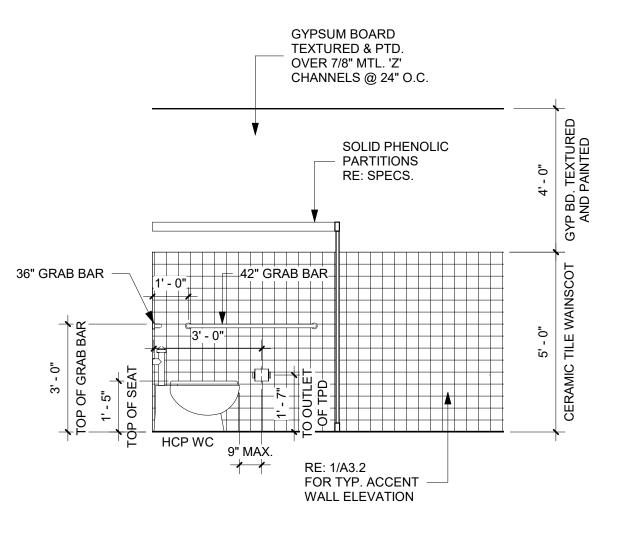
FOR ADA COMPLIANCE





GYPSUM BOARD TEXTURED & PTD. 2X6 FULL LENGTH MIRROR (1/4" GLASS TEMPERED W/ ALUMINUM FRAME) +RE: 1/A3.2++ FOR TYP. ACCENT WALL ELEVATION

6 RESTROOM ELEVATION

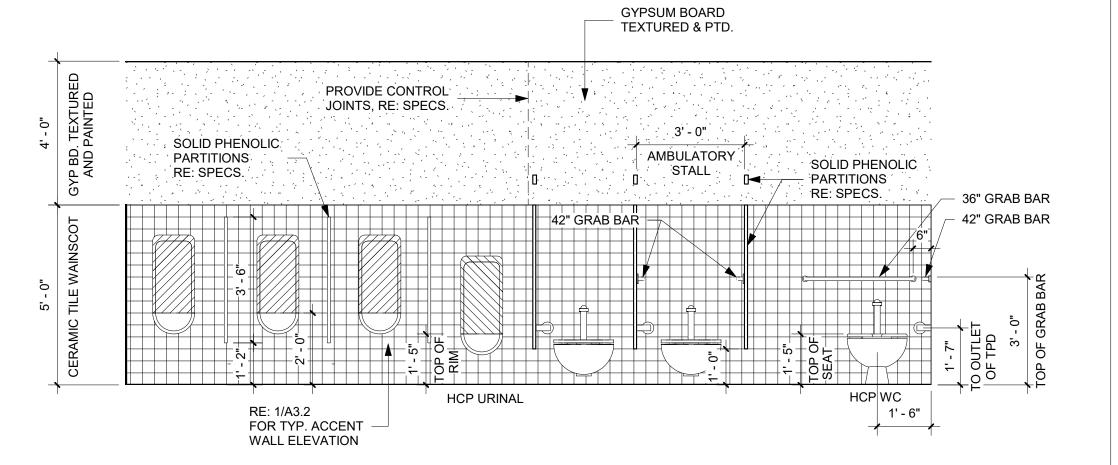


5 RESTROOM ELEVATION
3/8" = 1'_0" 3/8" = 1'-0"

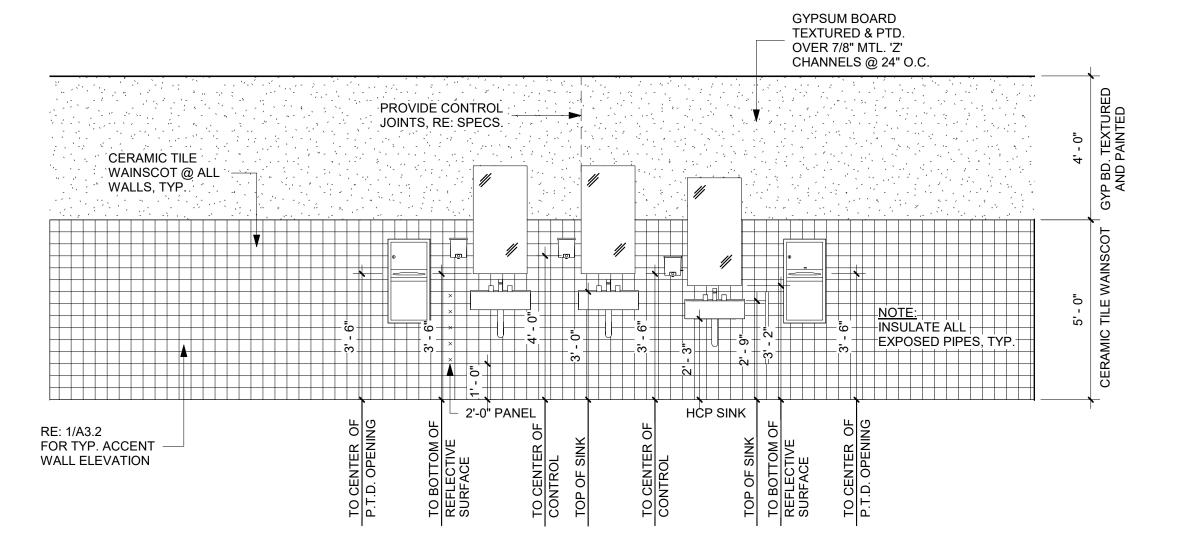
GYPSUM BOARD

TEXTURED & PTD.

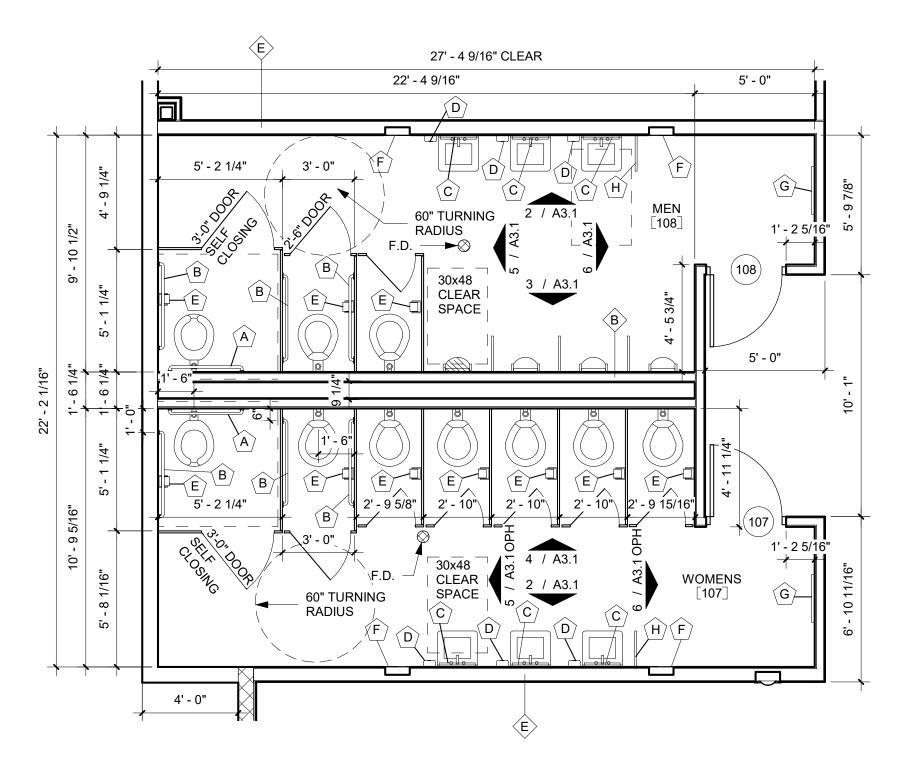
4 RESTROOM ELEVATION
3/8" = 1'-0"



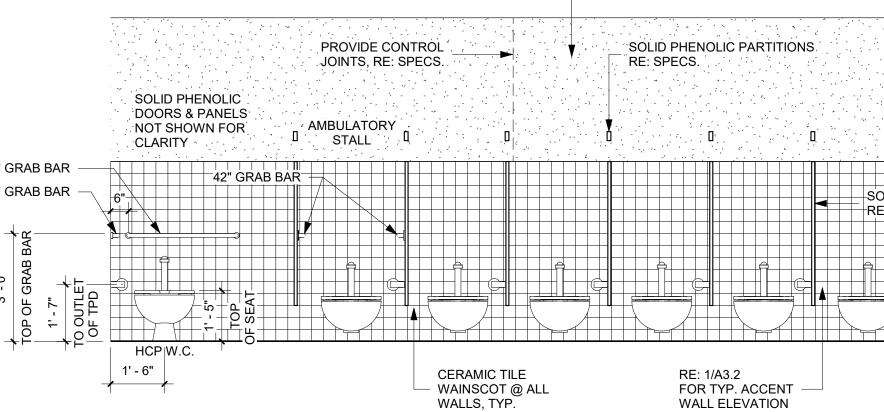
3 RESTROOM ELEVATION
3/8" = 1'-0"



2 RESTROOM ELEVATION
3/8" = 1'-0"



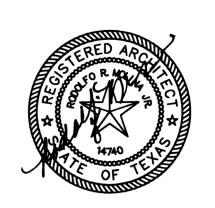
1 RESTROOMS - ENLARGED 1/4" = 1'-0"



ELECTRIC DRINKING FOUNTAINS -RE: MEP

7 EDF ELEVATION 3/8" = 1'-0"

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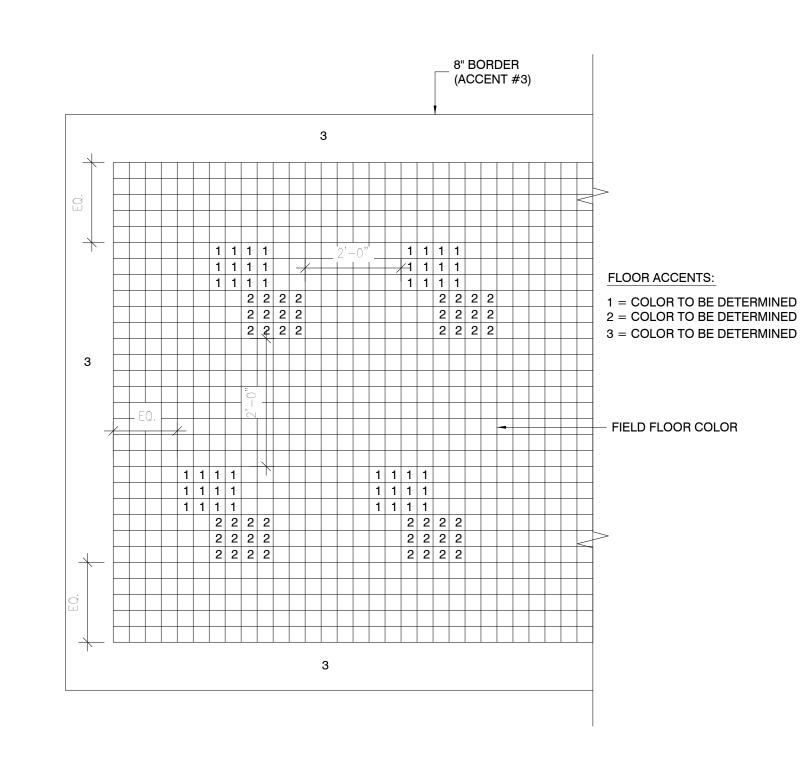


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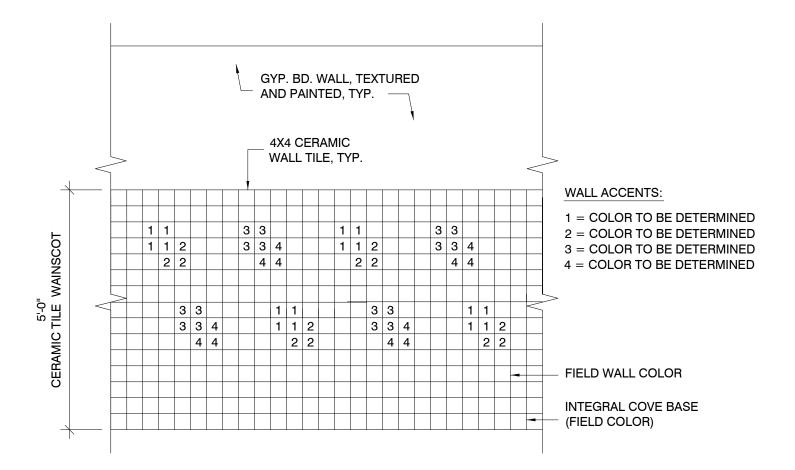
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2 TYPICAL FLOOR TILE LAYOUT
1/2" = 1'-0"



1 TYPICAL WALL TILE ELEVATION 1/2" = 1'-0"



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JUNE 04, 2021

MINDOOR RECREATION CENTEF

MINDOOR RECREATION CENTEF

CITY OF EDINBURG ECONOMIC

DEVELOPMENT CORPORATION

DEVELOPMENT CORPORATION

DEVELOPMENT CORPORATION

DEVELOPMENT CORPORATION

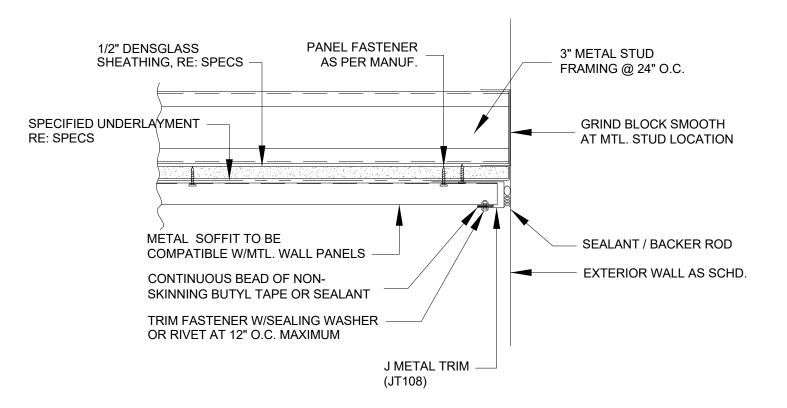
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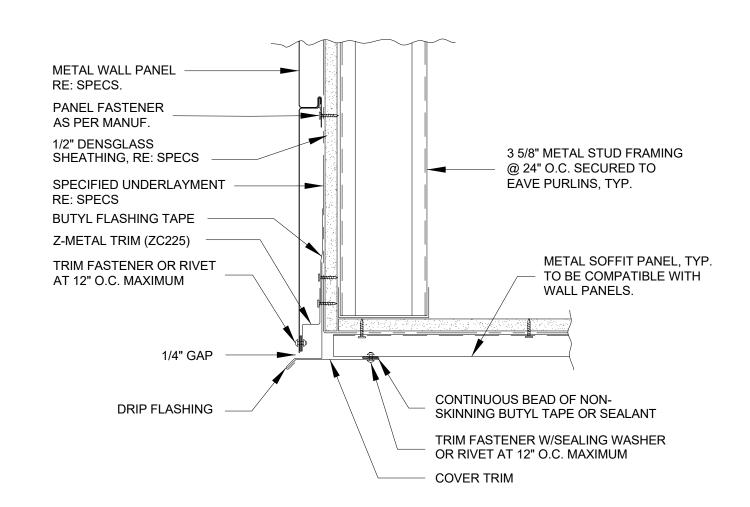
ISSUED FOR BIDS

SHEET NUMBER

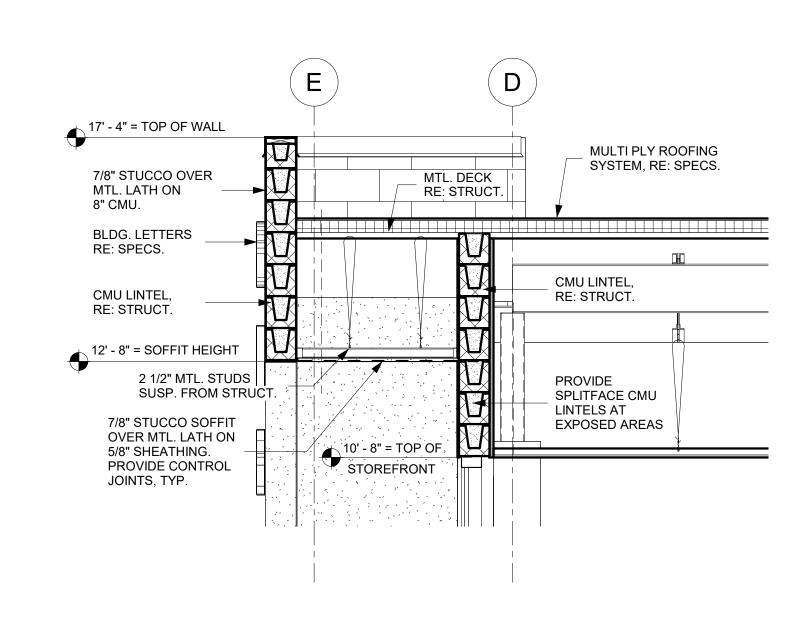
A3.2

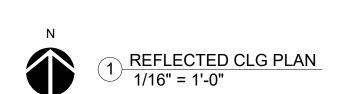


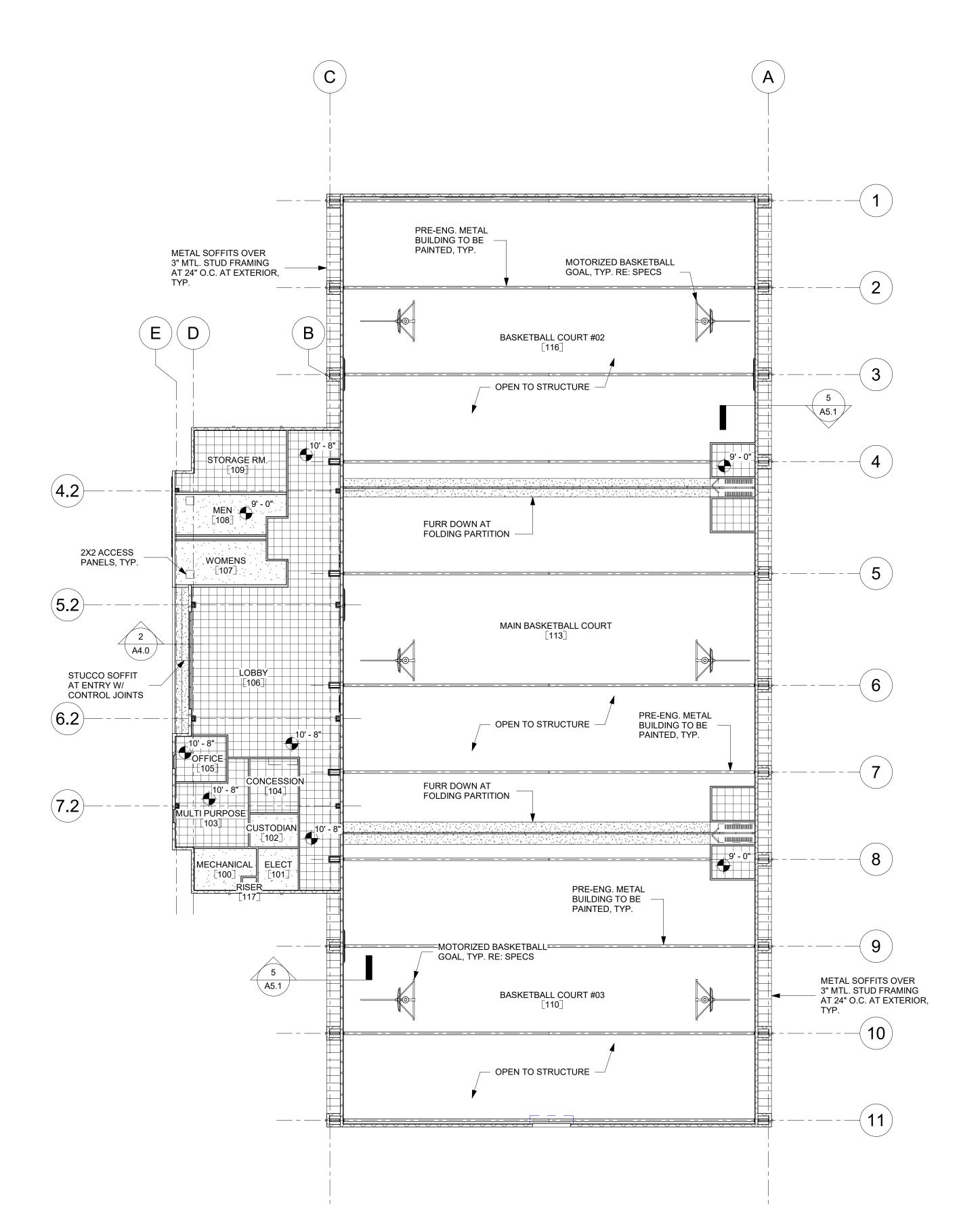
4 METAL SOFFIT DETAIL 3" = 1'-0"



3 WALL PANEL & SOFFIT DETAIL
3" = 1'-0"







GENERAL NOTES:

- ALL OUTLETS SHALL BE @ 15" A.F.F. UNLESS NOTED OTHERWISE. ALSO, OUTLETS SHALL BE PLACED 12'-0" MAX. DISTANCE ALONG INSIDE WALLS, RE: MEP. FOR ADDT. INFO.
- 2. GROUND FAULT INTERRUPTERS (GFI) ARE REQ'D ON CONVENIENCE OUTLETS IN RESTROOMS.
- WEATHER PROOF (W.P.) CONVENIENCE OUTLETS
 ARE REQUIRED OUTSIDE.
- 4. ALL CLG. ARE 9'-0" A.F.F. UNLESS NOTED OTHERWISE.
- 5. LIGHT SWITCH @ H.C. RESTROOMS @ 52" O.C.6. RE: MEP DWGS. FOR EXACT LIGHTING COUNT,
- FIXTURE SCHEDULE AND LOCATIONS.
- 7. PROVIDE A 24X24 ACCESS PANEL @ RESTROOMS, TYP.
- 8. PROVIDE MOTORIZED BASKETBALL GOALS AS NOTED ON THE DRAWINGS, TYP. RE: SPECS.
- PRE-ENGINEERED METAL BUILDING TO BE PAINTED RE: SPECS FOR ADDT. INFO.

LEGEND:

2X2 SUSP. ACOUS. CLG. GRID RE: SPECS.

EXPOSED ROOF PANELS, PRE-FINISHED

TEXTURED & PAINTED, TYP.

MTL FRAMING @ 24" O.C., TYP.

SUSP. GYPSUM BOARD CEILING

METAL SOFFIT PANELS OVER 3"

CONFLICTS AND DISCREPANCIES:

- 1. THE RELATION OF SPECIFICATIONS AND THE DRAWINGS SHALL BE EQUAL IN AUTHORITY AND PRIORITY. SHOULD THEY DISAGREE IN THEMSELVES, OR WITH EACH OTHER, BIDS SHALL BE BASED ON THE MOST EXPENSIVE COMBINATION OF QUALITY AND QUANTITY OF WORK INDICATED. THE APPROPRIATE WORK, IN THE EVENT OF THE ABOVE MENTIONED DISAGREEMENTS, SHALL BE DETERMINED BY THE ARCHITECT, AT NO ADDITIONAL COSTS TO THE OWNER.
- 2. ANY OMISSION AND/OR CONFLICT IN THE DRAWINGS AND/OR SPECIFICATIONS, MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITTEN FORMAT BY R.F.I. (REQUEST FOR INFORMATION) PRIOR TO OPENING OF PROPOSALS (BIDS).
- 3. FAILURE TO REPORT AN OMISSION/CONFLICT IN THE DRAWINGS AND/OR SPECIFICATIONS, PRIOR TO OPENING OF PROPOSALS (BIDS) SHALL BE DEEMED EVIDENCE THAT THE CONTRACTOR HAS ELECTED TO PROCEED IN THE MORE EXPENSIVE MANNER, AT NO ADDITIONAL COST TO THE OWNER.

INTENT OF DRAWINGS:

- THE DRAWINGS ARE DIAGRAMMATIC AND SMALL SCALE ONLY. THEY CONVEY THE INTENT OF THE WORK BUT DO NOT SHOW EVERY SINGLE CONSTRUCTION DETAIL.
- 2. CONTRACTOR IS RESPONSIBLE, AS THE CONSTRUCTION EXPERT, TO PROVIDE AND INSTALL ALL NECESSARY MATERIALS, COMPONENTS AND SYSTEMS NECESSARY FOR THE TURN KEY CONSTRUCTION OF THE PROJECT.

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WINDOOR RECREATION CENTON OF THE TORES OF THE CORPORATION DEVELOPMENT CORPORATION EDINBURG, TX.

PROJECT NUMBER 219014

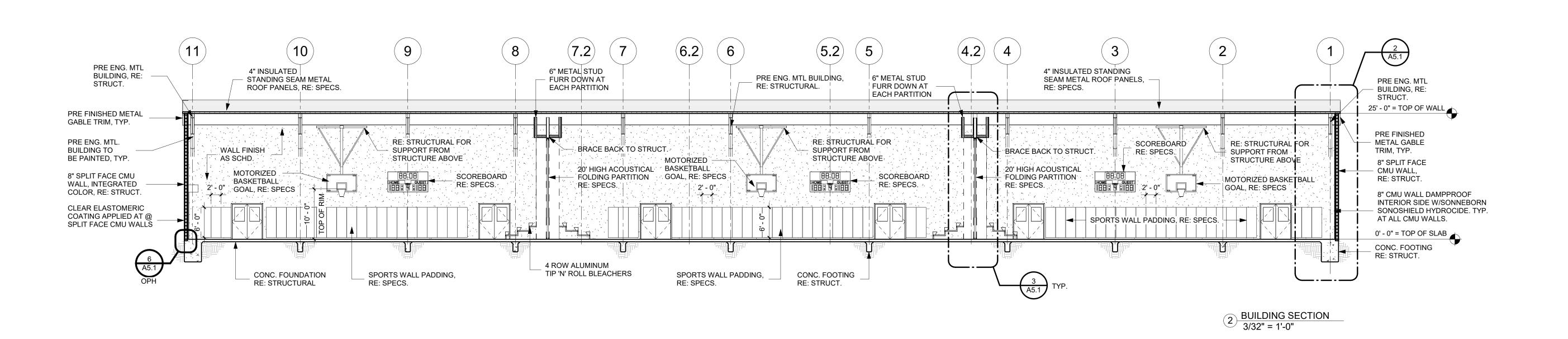
> DATE JUNE 04, 2021

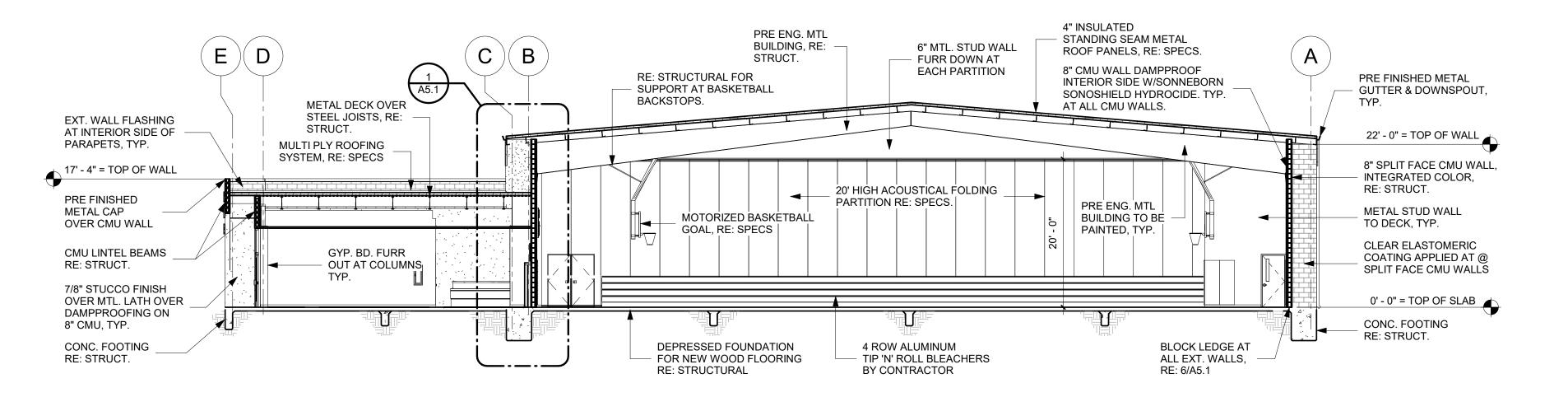
ISSUED FOR BIDS

SHEET NUMBER

A4.0

2 SOFFIT SECTION
1/2" = 1'-0"





1 BUILDING SECTION
3/32" = 1'-0"

3 BUILDING SECTION 1/8" = 1'-0"



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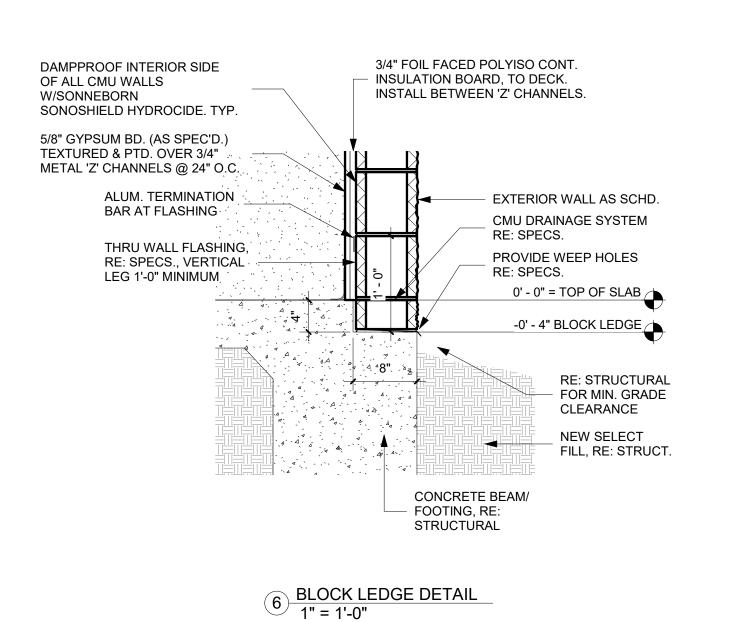
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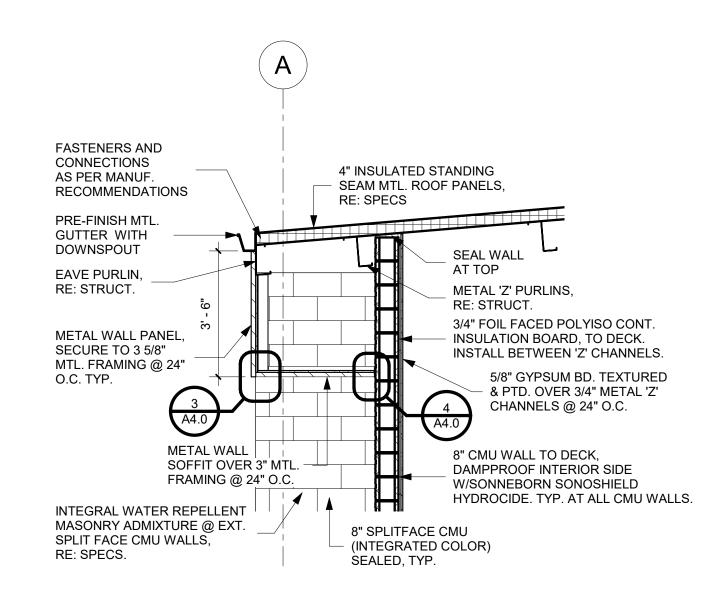
ISSUED FOR BIDS

SHEET NUMBER

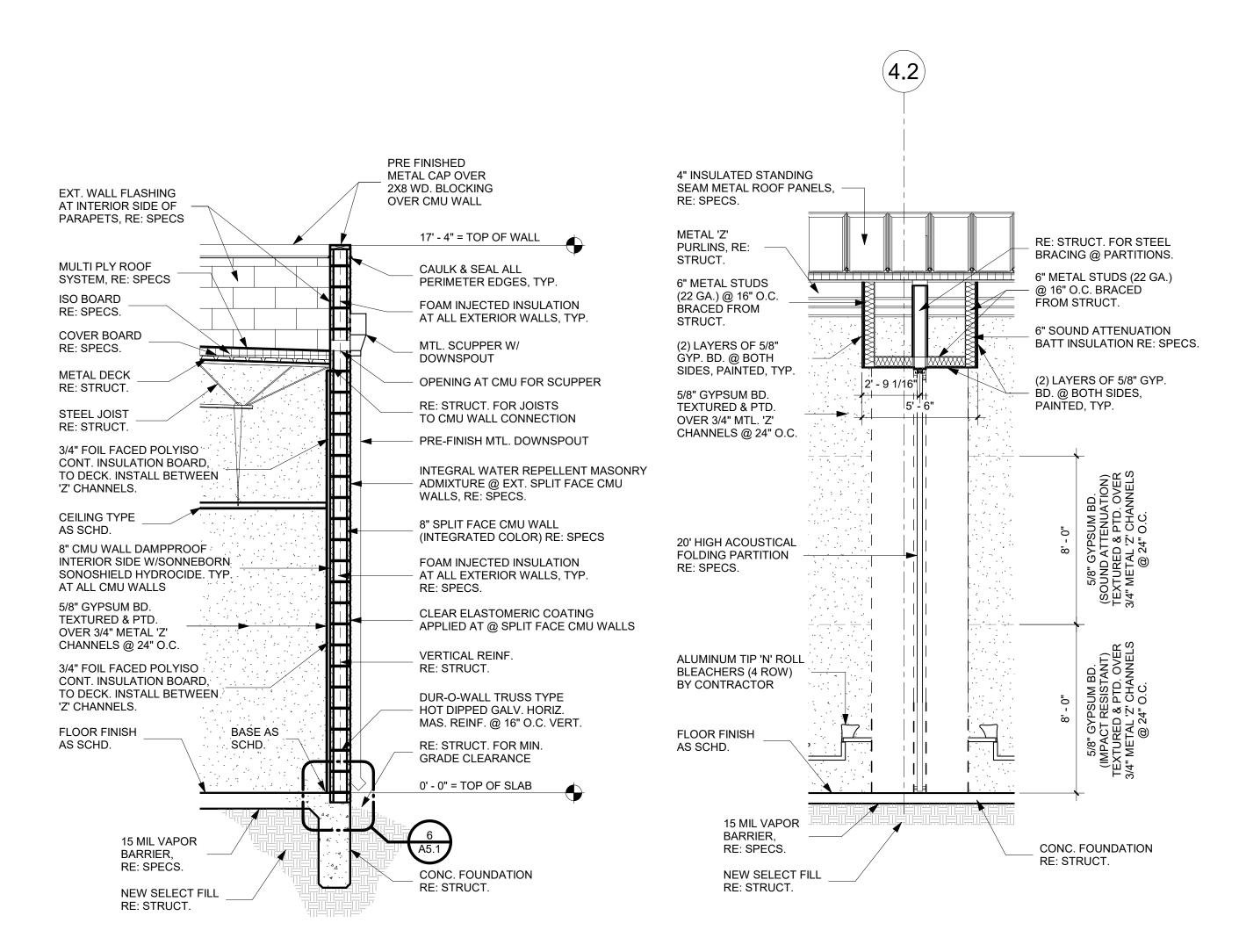
A5.0



2 WALL SECTION 1/4" = 1'-0"



5 METAL SOFFIT SECTIONS
3/8" = 1'-0"

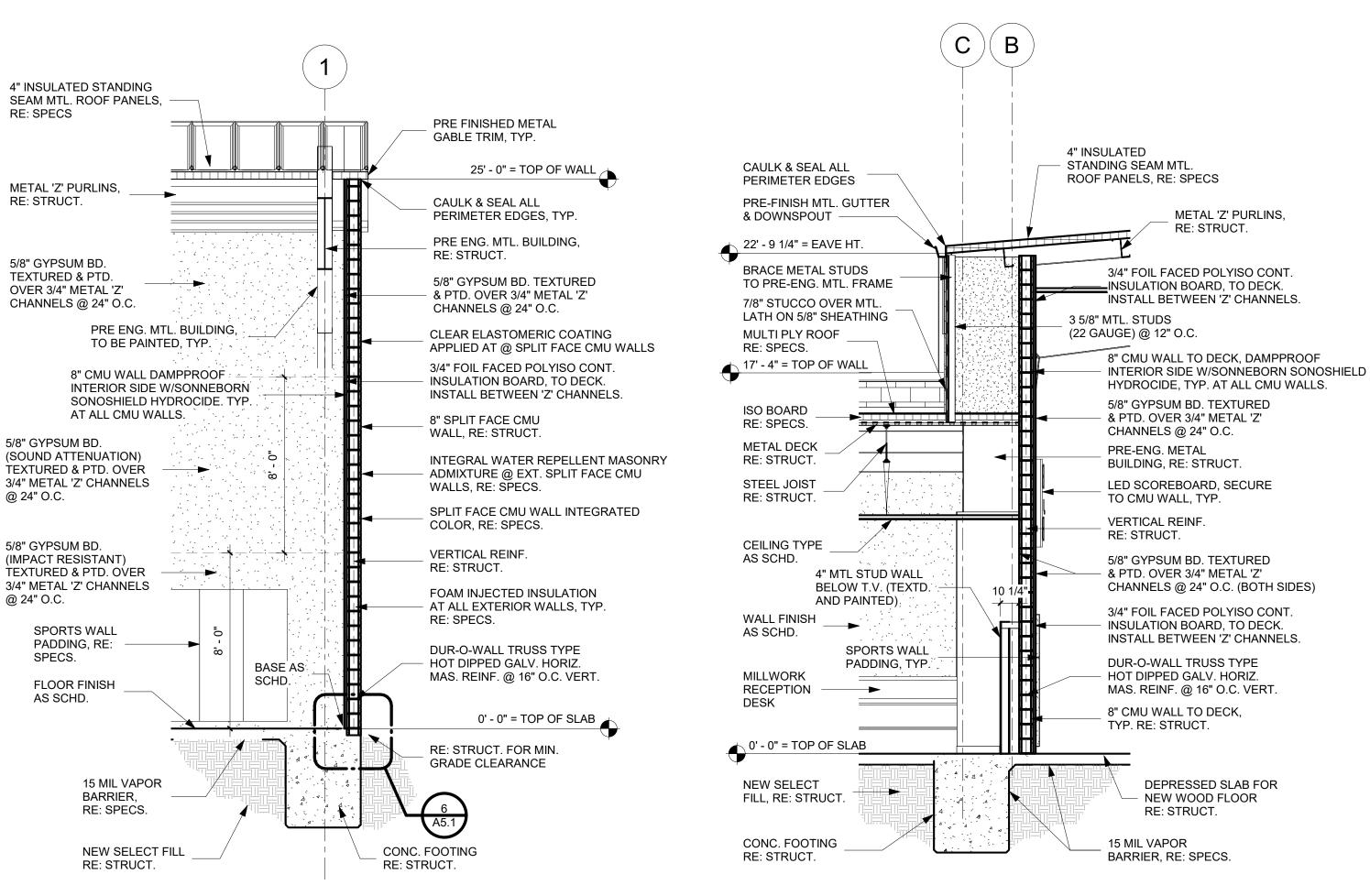


WALL SECTION @ PARTITION

1/4" = 1'-0"

WALL SECTION @ LOW ROOF

3/8" = 1'-0"



1 WALL SECTION 1/4" = 1'-0"

WALL SECTION

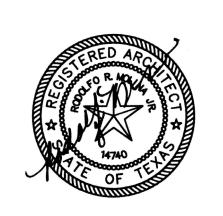
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JUNE 04, 2021

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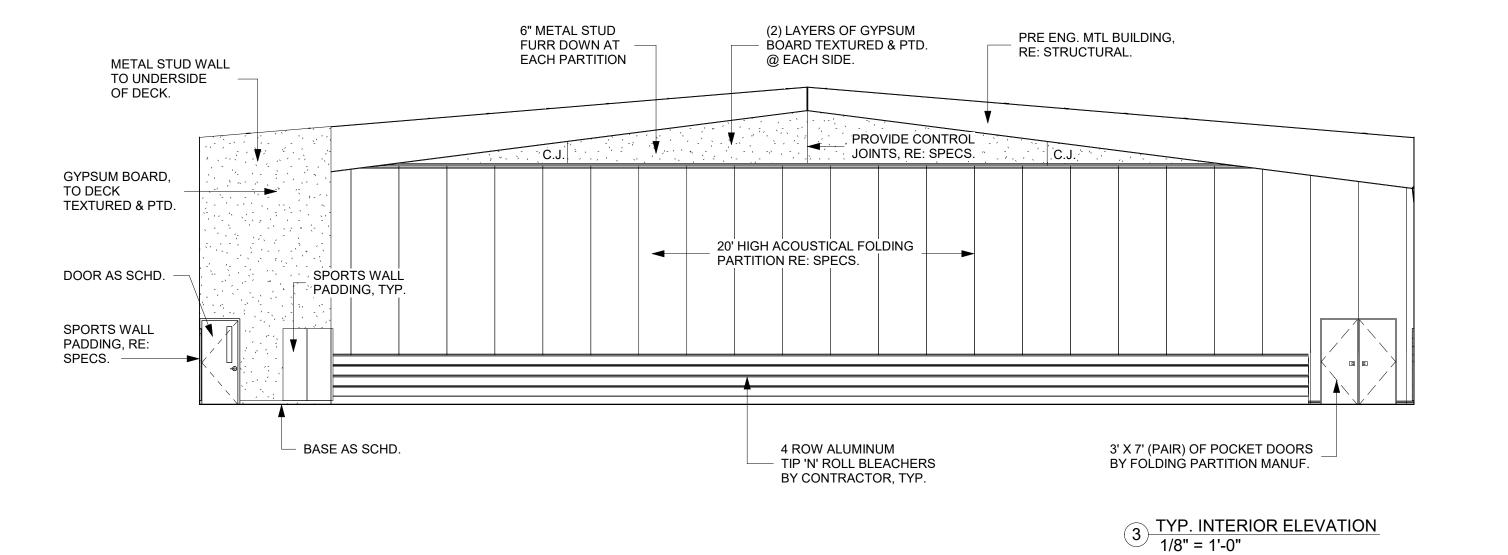
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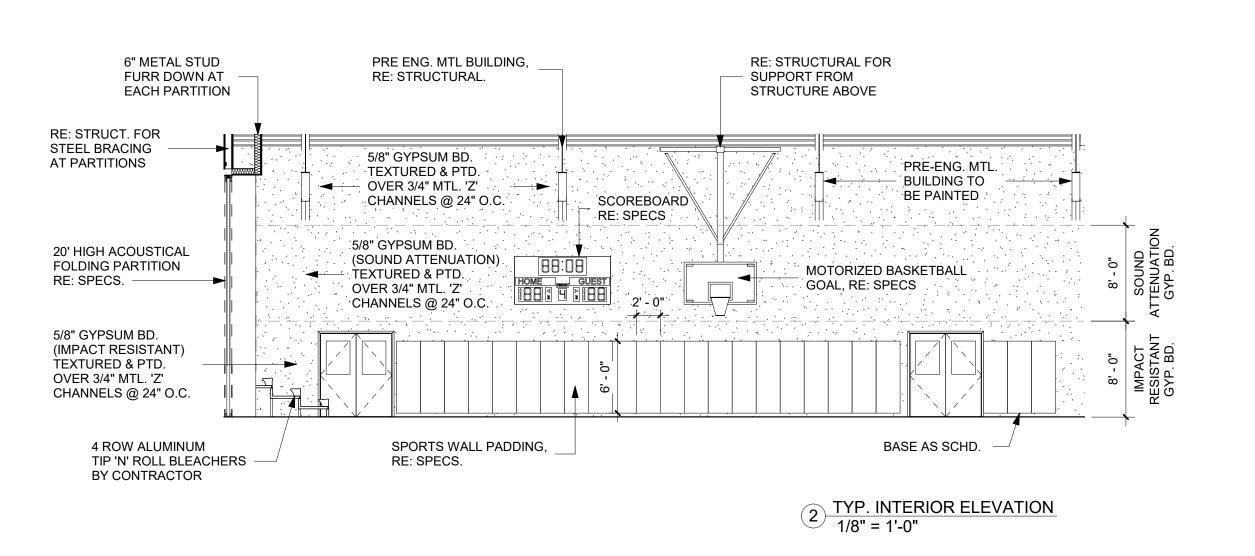
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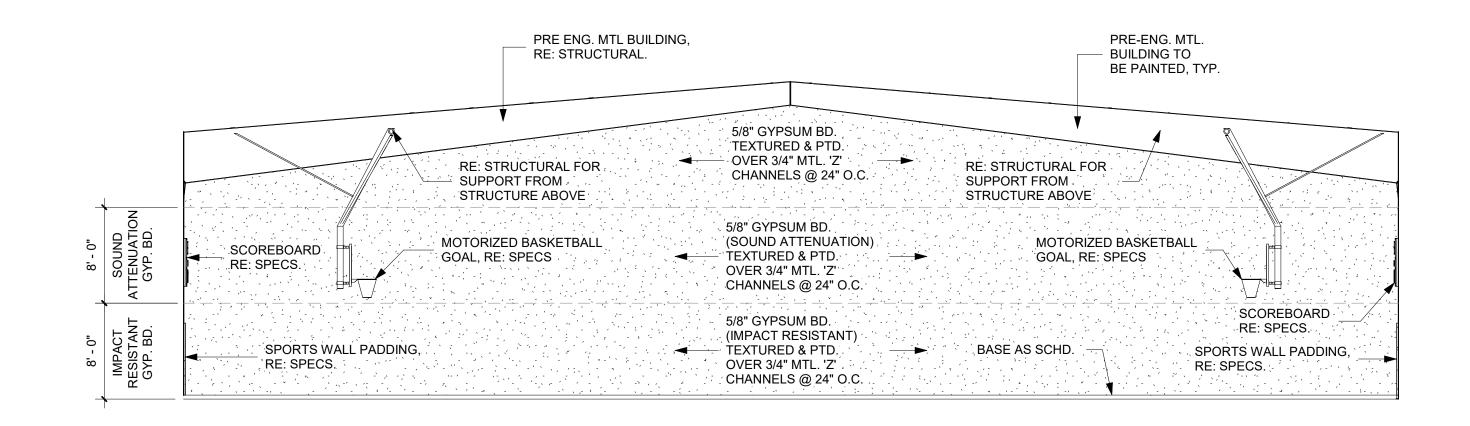
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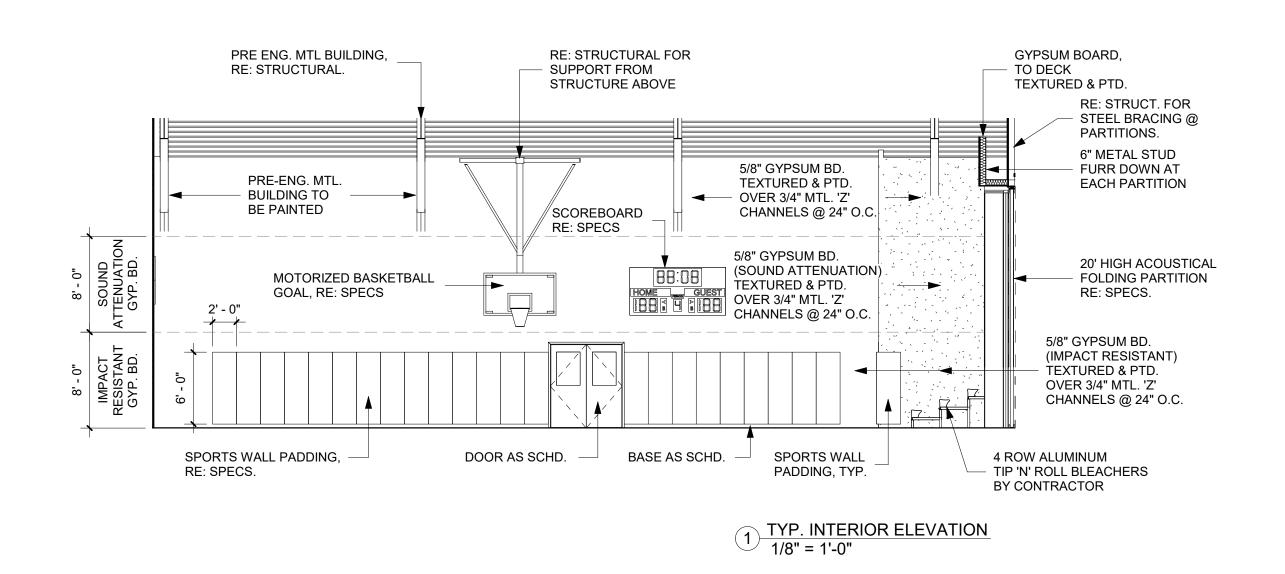
SHEET NUMBER

A5.1











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DEVELOPMENT CORPORATION
| EDINBURG, TX. | |

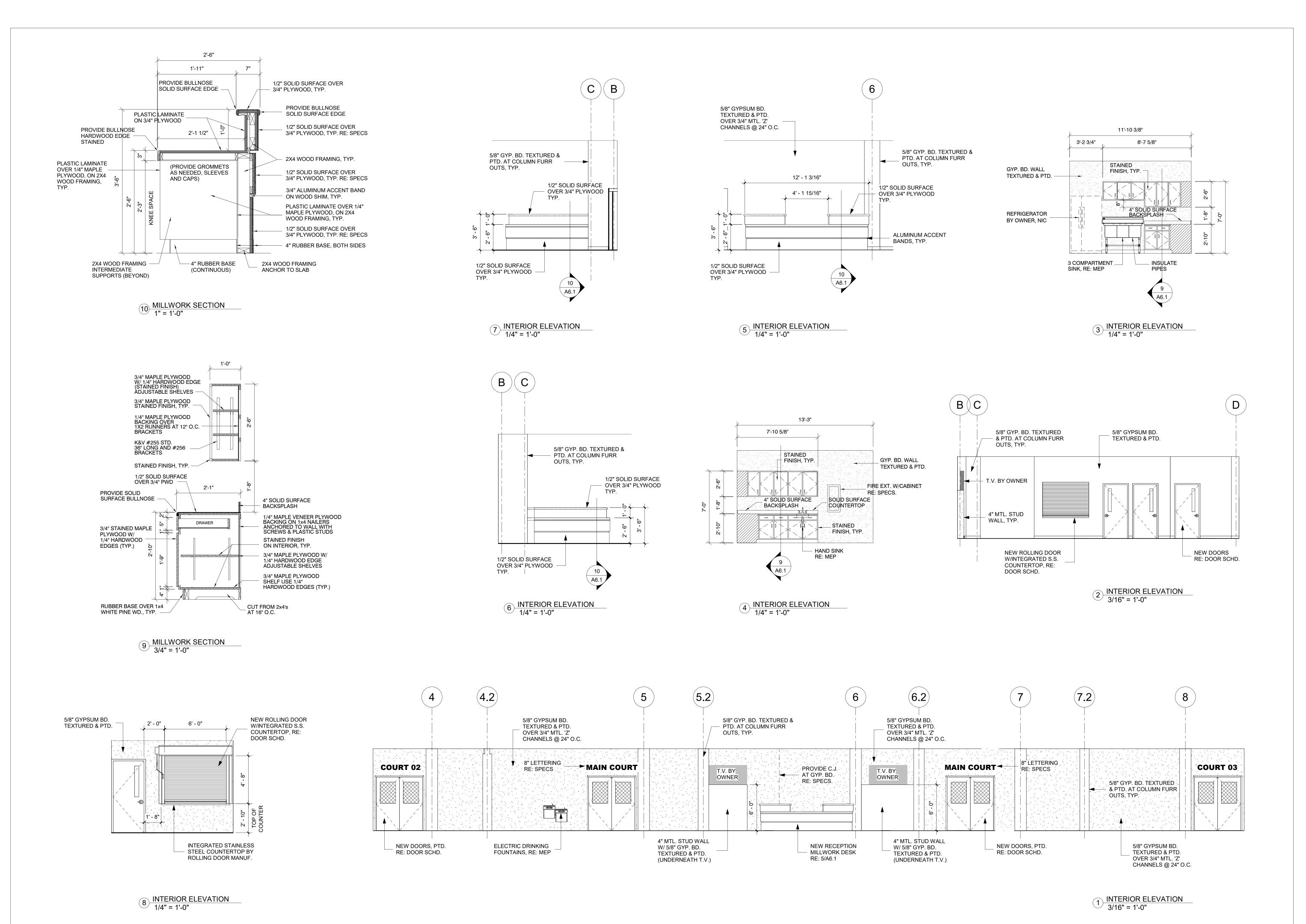
PROJECT NUMBER 219014

> DATE JUNE 04, 2021

ISSUED FOR BIDS

SHEET NUMBER

4 TYP. INTERIOR ELEVATION
1/8" = 1'-0"



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PROJECT NUMBER 219014

> DATE JUNE 04, 2021

ISSUED FOR BIDS

SHEET NUMBER

A6.1

DOOR SCHEDULE												
DOOR NO.	DESCRIPTION	DOOR TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FRAME TYPE	H.W. SET	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	COMMENTS
100	MECHANICAL	D	3' - 0"	7' - 0"	0' - 1 3/4"	HOLLOW METAL, PAINTED.	В	RE: SPECS	4/A7.1	5/A7.1	6/A7.1	
101	ELECTRICAL	D	3' - 0"	7' - 0"	0' - 1 3/4"	HOLLOW METAL, PAINTED.	Α	RE: SPECS	1/A7.1	2/A7.1	3/A7.1	
102	CUSTODIAN	E	6' - 0"	7' - 0"	0' - 1 3/4"	SOLID CORE WOOD, STAINED.	D	RE: SPECS	1/A7.1	2/A7.1	3/A7.1	
	MULTI PURPOSE RM	В	3' - 0"	7' - 0"	0' - 1 3/4"	SOLID CORE WOOD, STAINED.	A	RE: SPECS	1/A7.1	2/A7.1	3/A7.1	
104	CONCESSION STAND	В	3' - 0"	7' - 0"	0' - 1 3/4"	SOLID CORE WOOD, STAINED.	A	RE: SPECS	1/A7.1	2/A7.1	3/A7.1	
104A	CONCESSION STAND	G	6' - 0"	4' - 6"	0' - 2"	GALVANIZED STEEL, POWDER COATED	AS PER MANUF.	RE: SPECS				
	OFFICE	В	3' - 0"	7' - 0"	0' - 1 3/4"	SOLID CORE WOOD, STAINED.	A	RE: SPECS	1/A7.1	2/A7.1	3/A7.1	
106	LOBBY	Α	3' - 0"	7' - 0"	0' - 2"	ALUMINUM & GLASS	ALUMINUM	RE: SPECS				REFER TO DOO NOTES #1, #2, #
106A	LOBBY	А	3' - 0"	7' - 0"	0' - 2"	ALUMINUM & GLASS	ALUMINUM	RE: SPECS				REFER TO DOO NOTE #3
107	WOMENS RESTROOM	С	3' - 0"	7' - 0"	0' - 1 3/4"	SOLID CORE WOOD, STAINED.	Α	RE: SPECS	1/A7.1	2/A7.1	3/A7.1	
108	MENS RESTROOM	С	3' - 0"	7' - 0"	0' - 1 3/4"	SOLID CORE WOOD, STAINED.	Α	RE: SPECS	1/A7.1	2/A7.1	3/A7.1	
109	STORAGE RM.	Е	6' - 0"	7' - 0"	0' - 1 3/4"	SOLID CORE WOOD, STAINED.	D	RE: SPECS	1/A7.1	2/A7.1	3/A7.1	
110	BASKETBALL COURT #03	F	6' - 0"	7' - 0"	0' - 1 3/4"	HOLLOW METAL, PAINTED W/WIRE GLASS	С	RE: SPECS	4/A7.1	5/A7.1	6/A7.1	
110A	BASKETBALL COURT #03	J	6' - 0"	7' - 0"	0' - 1 3/4"	HOLLOW METAL, PAINTED W/WIRE GLASS	С	RE: SPECS	4/A7.1	5/A7.1	6/A7.1	
110B	BASKETBALL COURT #03	F	6' - 0"	7' - 0"	0' - 1 3/4"	HOLLOW METAL, PAINTED W/WIRE GLASS	С	RE: SPECS	4/A7.1	5/A7.1	6/A7.1	
110C	ROLLING SERVICE DOOR	Н	9' - 4"	9' - 4"	0' - 2"	GALVANIZED STEEL, POWDER COATED	AS PER MANUF.	RE: SPECS				REFER TO DOO NOTE #4
111	STORAGE RM.	В	3' - 0"	7' - 0"	0' - 1 3/4"	SOLID CORE WOOD, STAINED.	Α	RE: SPECS	1/A7.1	2/A7.1	3/A7.1	
112	STORAGE RM.	В	3' - 0"	7' - 0"	0' - 1 3/4"	SOLID CORE WOOD, STAINED.	Α	RE: SPECS	1/A7.1	2/A7.1	3/A7.1	
113	MAIN BASKETBALL COURT	J	6' - 0"	7' - 0"	0' - 1 3/4"	HOLLOW METAL, PAINTED W/WIRE GLASS	С	RE: SPECS	4/A7.1	5/A7.1	6/A7.1	
113A	MAIN BASKETBALL COURT	J	6' - 0"	7' - 0"	0' - 1 3/4"	HOLLOW METAL, PAINTED W/WIRE GLASS	С	RE: SPECS	4/A7.1	5/A7.1	6/A7.1	
113B	MAIN BASKETBALL COURT	F	6' - 0"	7' - 0"	0' - 1 3/4"	HOLLOW METAL, PAINTED W/WIRE GLASS	С	RE: SPECS	4/A7.1	5/A7.1	6/A7.1	
113C	MAIN BASKETBALL COURT	F	6' - 0"	7' - 0"	0' - 1 3/4"	HOLLOW METAL, PAINTED W/WIRE GLASS	С	RE: SPECS	4/A7.1	5/A7.1	6/A7.1	
114	STORAGE RM.	В	3' - 0"	7' - 0"	0' - 1 3/4"	SOLID CORE WOOD, STAINED.	Α	RE: SPECS	1/A7.1	2/A7.1	3/A7.1	
115	STORAGE RM.	В	3' - 0"	7' - 0"	0' - 1 3/4"	SOLID CORE WOOD, STAINED.	Α	RE: SPECS	1/A7.1	2/A7.1	3/A7.1	
116	BASKETBALL COURT #02	J	6' - 0"	7' - 0"	0' - 1 3/4"	HOLLOW METAL, PAINTED W/WIRE GLASS	С	RE: SPECS	4/A7.1	5/A7.1	6/A7.1	
116A	BASKETBALL COURT #02	F	6' - 0"	7' - 0"	0' - 1 3/4"	HOLLOW METAL, PAINTED W/WIRE GLASS	С	RE: SPECS	4/A7.1	5/A7.1	6/A7.1	
116B	BASKETBALL COURT #02	F	6' - 0"	7' - 0"	0' - 1 3/4"	HOLLOW METAL, PAINTED W/WIRE GLASS	С	RE: SPECS	4/A7.1	5/A7.1	6/A7.1	
117	RISER RM.	D	3' - 0"	7' - 0"	0' - 1 3/4"	HOLLOW METAL, PAINTED.	В	RE: SPECS	4/A7.1	5/A7.1	6/A7.1	

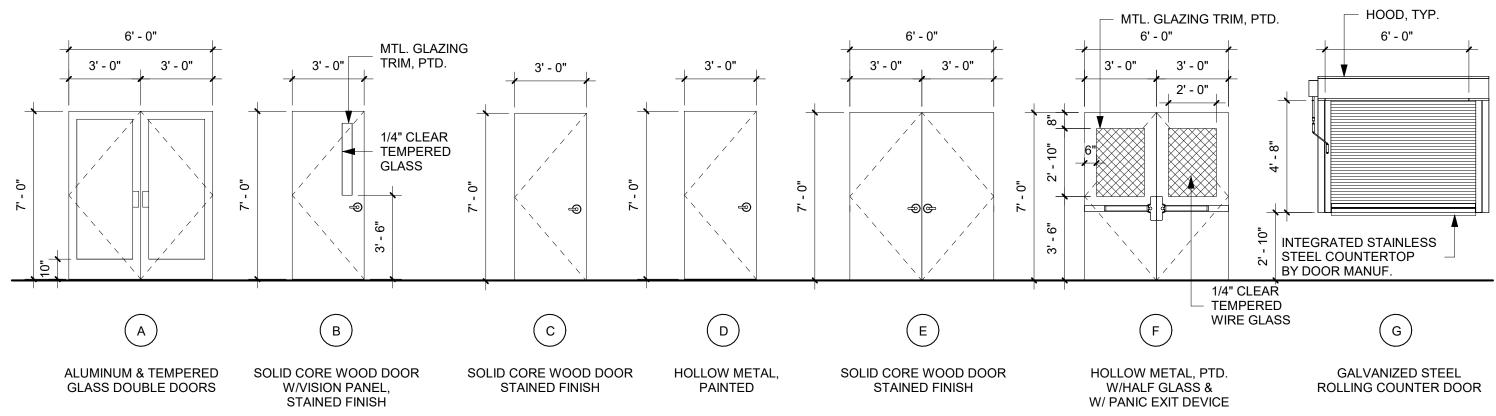
DOOR NOTES:

- 1. PROVIDE AND INSTALL AN ADA COMPLIANT PUSH BUTTON TO OPEN W/BOLLARD. COORDINATE LOCATION W/ARCHITECT. PROVIDE POWER AS SHOWN ON MEP.
- BOLLARD SHALL BE A 6" X 42" SQUARE ALUMINUM BOLLARD ACCESS POST WITH PUSH PLATE (POWDER COAT AND INTERNAL MOUNTING BASE).
- 3. PROVIDE DOUBLE ENTRY DOORS (6'-0" X 7'-0") AS SHOWN ON PLANS.
- 4. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL NECESSARY WEATHERSTRIPPING TO ENSURE A WATERTIGHT INSTALLATION.

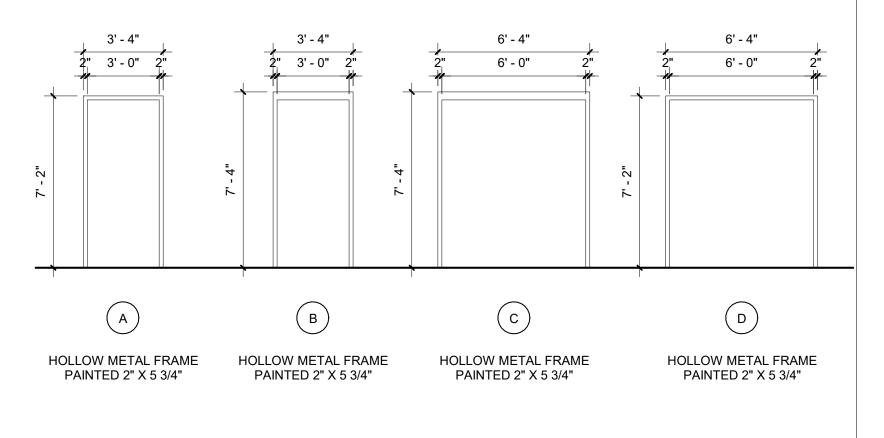
ROOM FINISH SCHEDULE						
Number	Name	WALLS	BASE	FLOOR	CEILING	Comments
100	MECHANICAL	P-1	B-1	sc	GB-1	
101	ELECT	P-1	B-1	SC	GB-1	
102	CUSTODIAN	P-1	B-1	SC	GB-1	
103	MULTI PURPOSE	P-1	B-1	LVT	AC-1	FOR FLOOR PATTERNS, RE: A7.2
104	CONCESSION	P-1	B-1	QT-1	AC-1	
105	OFFICE	P-1	B-1	LVT	AC-1	
106	LOBBY	P-1	B-1	LVT	AC-1	FOR FLOOR PATTERNS, RE: A7.2
107	WOMENS	P-2	B-2	CT-1	GB-1	FOR FLOOR PATTERNS: RE: A3.2
108	MEN	P-2	B-2	CT-1	GB-1	FOR FLOOR PATTERNS: RE: A3.2
109	STORAGE RM.	P-1	B-1	LVT	AC-1	
110	BASKETBALL COURT #03	P-1	B-3	WD-1	ES-1	FOR WOOD FLOORING, RE: SPECS.
111	STORAGE	P-1	B-1	LVT	AC-1	
112	STORAGE	P-1	B-1	LVT	AC-1	
113	MAIN BASKETBALL COURT	P-1	B-3	WD-1	ES-1	FOR WOOD FLOORING, RE: SPECS.
114	STORAGE	P-1	B-1	LVT	AC-1	
115	STORAGE	P-1	B-1	LVT	AC-1	
116	BASKETBALL COURT #02	P-1	B-3	WD-1	ES-1	FOR WOOD FLOORING, RE: SPECS.
117	RISER	P-1	B-1	SC	GB-1	

P-1 GYPSUM BD., TEXTURED & PAINTED (LATEX) P-2 GYPSUM BD., TEXTURED & PAINTED (EPOXY) W/TILE WAINSCOT P-3 CMU SEALED & PAINTED (LATEX PAINT) FLOORS CT-1 CERAMIC TILE LVT LUXURY VINYL TILE WD-1 WOOD FLOORING SC SEALED CONCRETE QT-1 QUARRY TILE B-3 4" RUBBER BASE B-2 CERAMIC TILE B-3 4" RUBBER VENTED BASE CEILING AC-1 SUSP. ACOUSTICAL CEILING (2X2) GB-1 SUSP. GYPSUM BD. TEXTURED & PAINTED ES-1 EXPOSED STRUCTURE	R	OOM FINISH LEGEND
P-2 GYPSUM BD., TEXTURED & PAINTED (EPOXY) W/TILE WAINSCOT P-3 CMU SEALED & PAINTED (LATEX PAINT) FLOORS CT-1 CERAMIC TILE LVT LUXURY VINYL TILE WD-1 WOOD FLOORING SC SEALED CONCRETE QT-1 QUARRY TILE B-3 4" RUBBER BASE B-2 CERAMIC TILE B-3 4" RUBBER VENTED BASE CEILING AC-1 SUSP. ACOUSTICAL CEILING (2X2) GB-1 SUSP. GYPSUM BD. TEXTURED & PAINTED	WALI	_S
P-3 CMU SEALED & PAINTED (LATEX PAINT) FLOORS CT-1 CERAMIC TILE LVT LUXURY VINYL TILE WD-1 WOOD FLOORING SC SEALED CONCRETE QT-1 QUARRY TILE B-3 4" RUBBER BASE B-2 CERAMIC TILE B-3 4" RUBBER VENTED BASE CEILING AC-1 SUSP. ACOUSTICAL CEILING (2X2) GB-1 SUSP. GYPSUM BD. TEXTURED & PAINTED	P-1	GYPSUM BD., TEXTURED & PAINTED (LATEX)
FLOORS CT-1 CERAMIC TILE LVT LUXURY VINYL TILE WD-1 WOOD FLOORING SC SEALED CONCRETE QT-1 QUARRY TILE B-1 4" RUBBER BASE B-2 CERAMIC TILE B-3 4" RUBBER VENTED BASE CEILING AC-1 SUSP. ACOUSTICAL CEILING (2X2) GB-1 SUSP. GYPSUM BD. TEXTURED & PAINTED	P-2	,
CT-1 CERAMIC TILE LVT LUXURY VINYL TILE WD-1 WOOD FLOORING SC SEALED CONCRETE QT-1 QUARRY TILE BASE B-1 4" RUBBER BASE B-2 CERAMIC TILE B-3 4" RUBBER VENTED BASE CEILING AC-1 SUSP. ACOUSTICAL CEILING (2X2) GB-1 SUSP. GYPSUM BD. TEXTURED & PAINTED	P-3	CMU SEALED & PAINTED (LATEX PAINT)
LVT LUXURY VINYL TILE WD-1 WOOD FLOORING SC SEALED CONCRETE QT-1 QUARRY TILE B-1 4" RUBBER BASE B-2 CERAMIC TILE B-3 4" RUBBER VENTED BASE CEILING AC-1 SUSP. ACOUSTICAL CEILING (2X2) GB-1 SUSP. GYPSUM BD. TEXTURED & PAINTED		
WD-1 WOOD FLOORING SC SEALED CONCRETE QT-1 QUARRY TILE B-1 4" RUBBER BASE B-2 CERAMIC TILE B-3 4" RUBBER VENTED BASE CEILING AC-1 SUSP. ACOUSTICAL CEILING (2X2) GB-1 SUSP. GYPSUM BD. TEXTURED & PAINTED		
SC SEALED CONCRETE QT-1 QUARRY TILE BASE B-1 4" RUBBER BASE B-2 CERAMIC TILE B-3 4" RUBBER VENTED BASE CEILING AC-1 SUSP. ACOUSTICAL CEILING (2X2) GB-1 SUSP. GYPSUM BD. TEXTURED & PAINTED		
B-1 4" RUBBER BASE B-2 CERAMIC TILE B-3 4" RUBBER VENTED BASE CEILING AC-1 SUSP. ACOUSTICAL CEILING (2X2) GB-1 SUSP. GYPSUM BD. TEXTURED & PAINTED		
B-1 4" RUBBER BASE B-2 CERAMIC TILE B-3 4" RUBBER VENTED BASE CEILING AC-1 SUSP. ACOUSTICAL CEILING (2X2) GB-1 SUSP. GYPSUM BD. TEXTURED & PAINTED	QT-1	QUARRY TILE
B-2 CERAMIC TILE B-3 4" RUBBER VENTED BASE CEILING AC-1 SUSP. ACOUSTICAL CEILING (2X2) GB-1 SUSP. GYPSUM BD. TEXTURED & PAINTED	BASE	
B-3 4" RUBBER VENTED BASE CEILING AC-1 SUSP. ACOUSTICAL CEILING (2X2) GB-1 SUSP. GYPSUM BD. TEXTURED & PAINTED	B-1	4" RUBBER BASE
CEILING AC-1 SUSP. ACOUSTICAL CEILING (2X2) GB-1 SUSP. GYPSUM BD. TEXTURED & PAINTED	B-2	CERAMIC TILE
AC-1 SUSP. ACOUSTICAL CEILING (2X2) GB-1 SUSP. GYPSUM BD. TEXTURED & PAINTED	B-3	4" RUBBER VENTED BASE
GB-1 SUSP. GYPSUM BD. TEXTURED & PAINTED	CEILI	NG
	AC-1	. ,
ES-1 EXPOSED STRUCTURE	GB-1	SUSP. GYPSUM BD. TEXTURED & PAINTED
	ES-1	EXPOSED STRUCTURE

DOOR TYPES

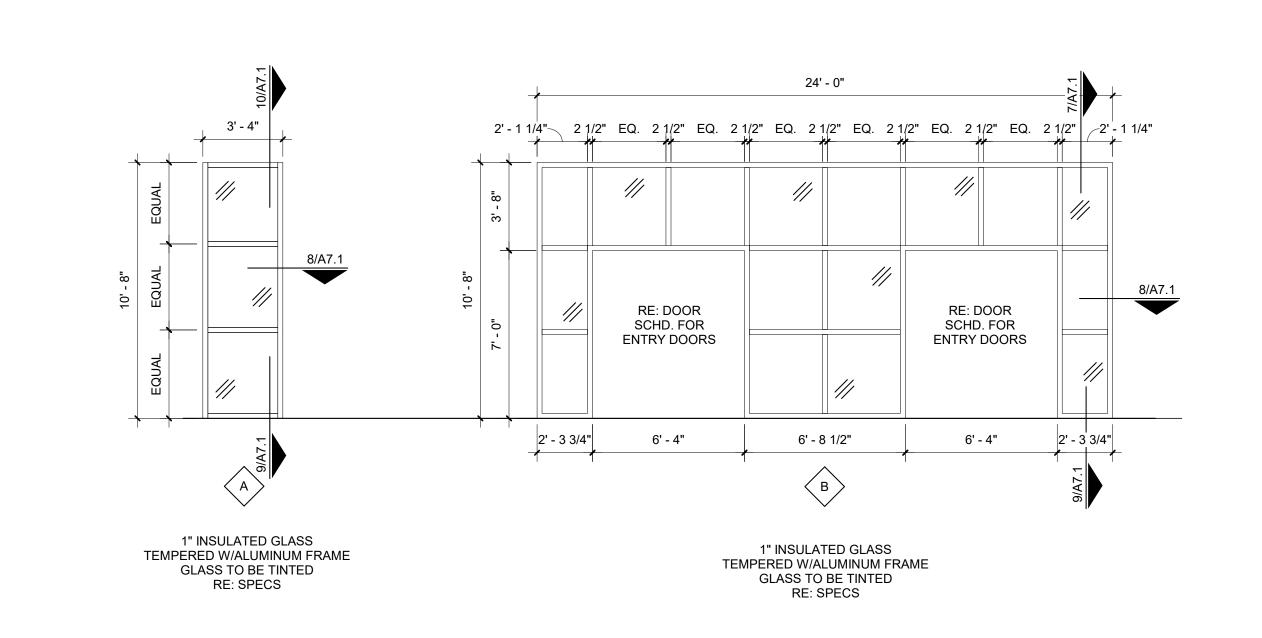


FRAME TYPES



HOOD, TYP. MTL. GLAZING TRIM, PTD. 6'-0" 3'-0" 3'-0" 1/4" CLEAR TEMPERED WIRE GLASS HOLLOW METAL, PTD. W/VISION PANEL & W/ PANIC EXIT DEVICE

STOREFRONT & WINDOW TYPES





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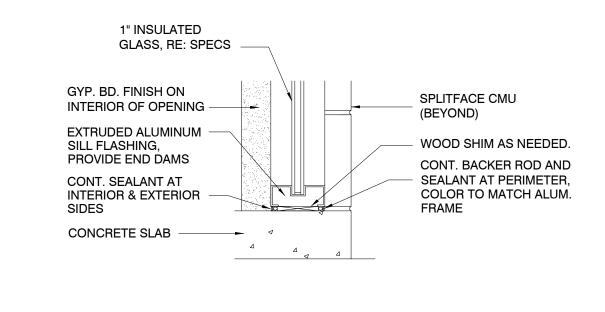
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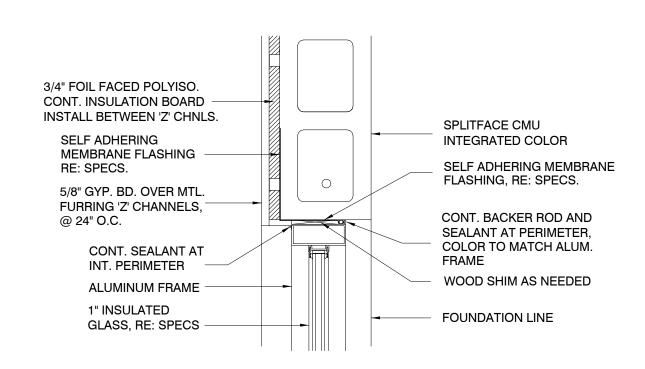
ISSUED FOR BIDS

SHEET NUMBER

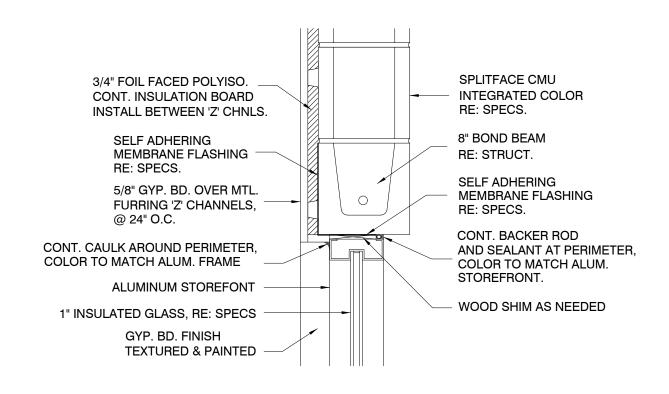
Λ**7** Λ



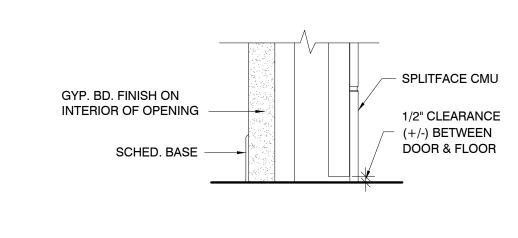
9 ALUMINUM SILL DETAIL 1 1/2" = 1'-0"



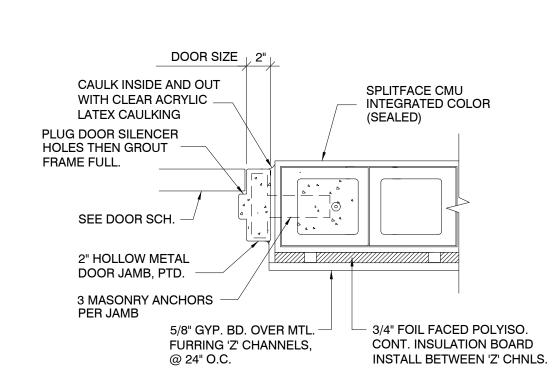
8 ALUMINUM JAMB DETAIL 1 1/2" = 1'-0"



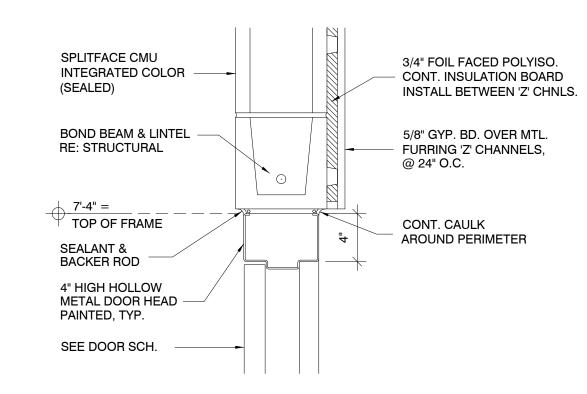
7 STOREFRONT HEAD DETAIL 1 1/2" = 1'-0"



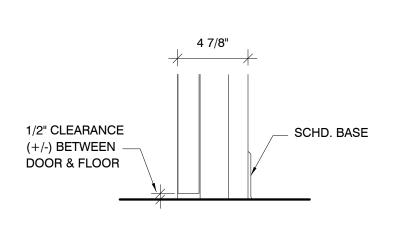
6 DOOR SILL DETAIL
1 1/2" = 1'-0"



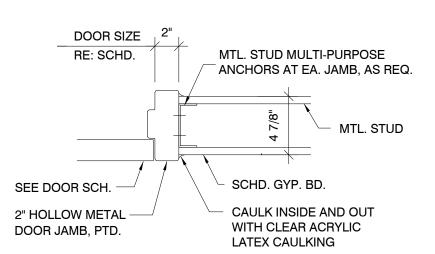
5 DOOR JAMB DETAIL 1 1/2" = 1'-0"



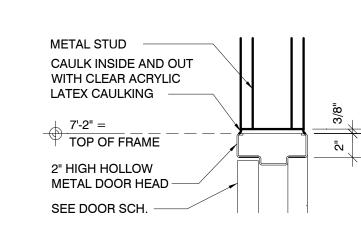
4 DOOR HEAD DETAIL 1 1/2" = 1'-0"



3 DOOR SILL DETAIL 1 1/2" = 1'-0"



2 DOOR JAMB DETAIL 1 1/2" = 1'-0"



1 DOOR HEAD DETAIL 1 1/2" = 1'-0"



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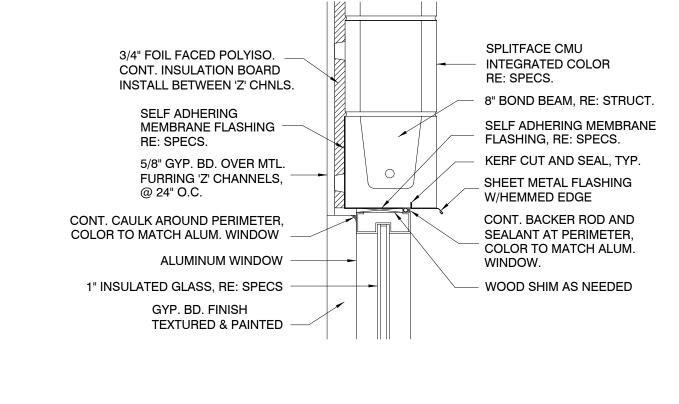
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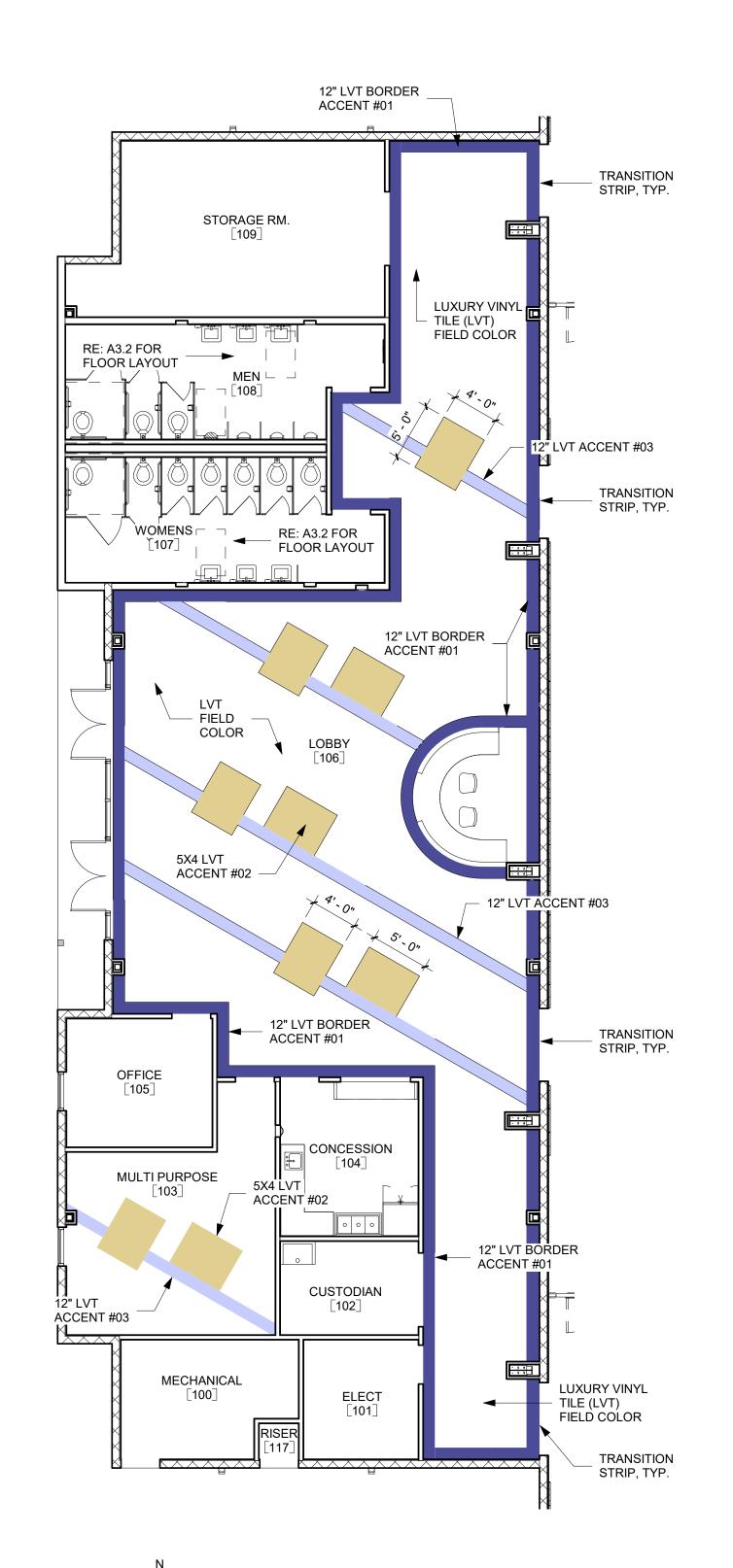
ISSUED FOR BIDS

SHEET NUMBER

A7.1



10 WINDOW HEAD DETAIL
1 1/2" = 1'-0"



GENERAL FINISH NOTES:

- PROVIDE TRANSITION STRIPS WHERE CHANGES IN LEVEL OCCURS AND AT CHANGES IN FLOORING MATERIALS.
- 2. RE: A3.2 FOR RESTROOM TILE FLOORING PATTERNS.
- 3. PROVIDE ALL REQUIRED THRESHOLDS AS SPECIFIED.

LEGEND:

LUXURY VINYL TILE (LVT) FIELD COLOR

12" LVT BORDER ACCENT #01

5' X 4' LVT ACCENT #02

12" LVT BORDER ACCENT #03

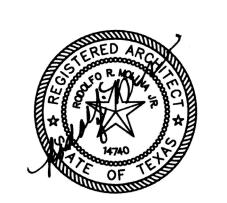


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CITY OF EDINBURG ECONOMIC

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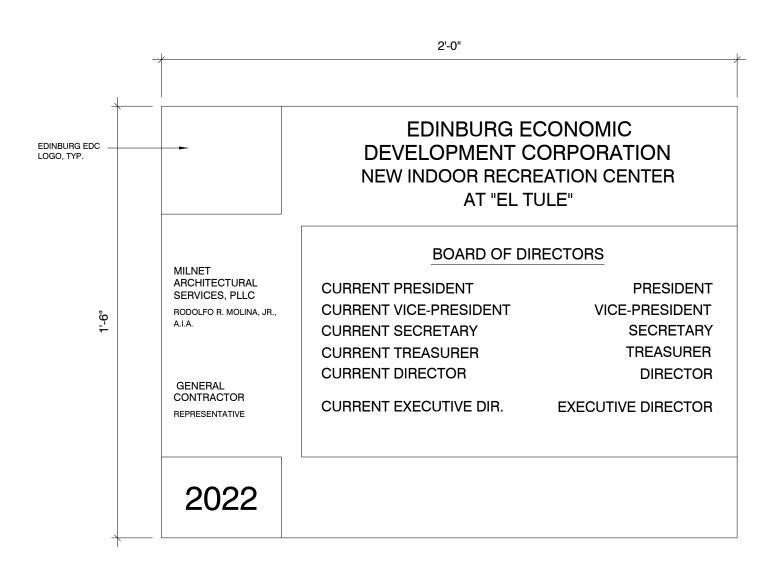
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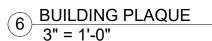
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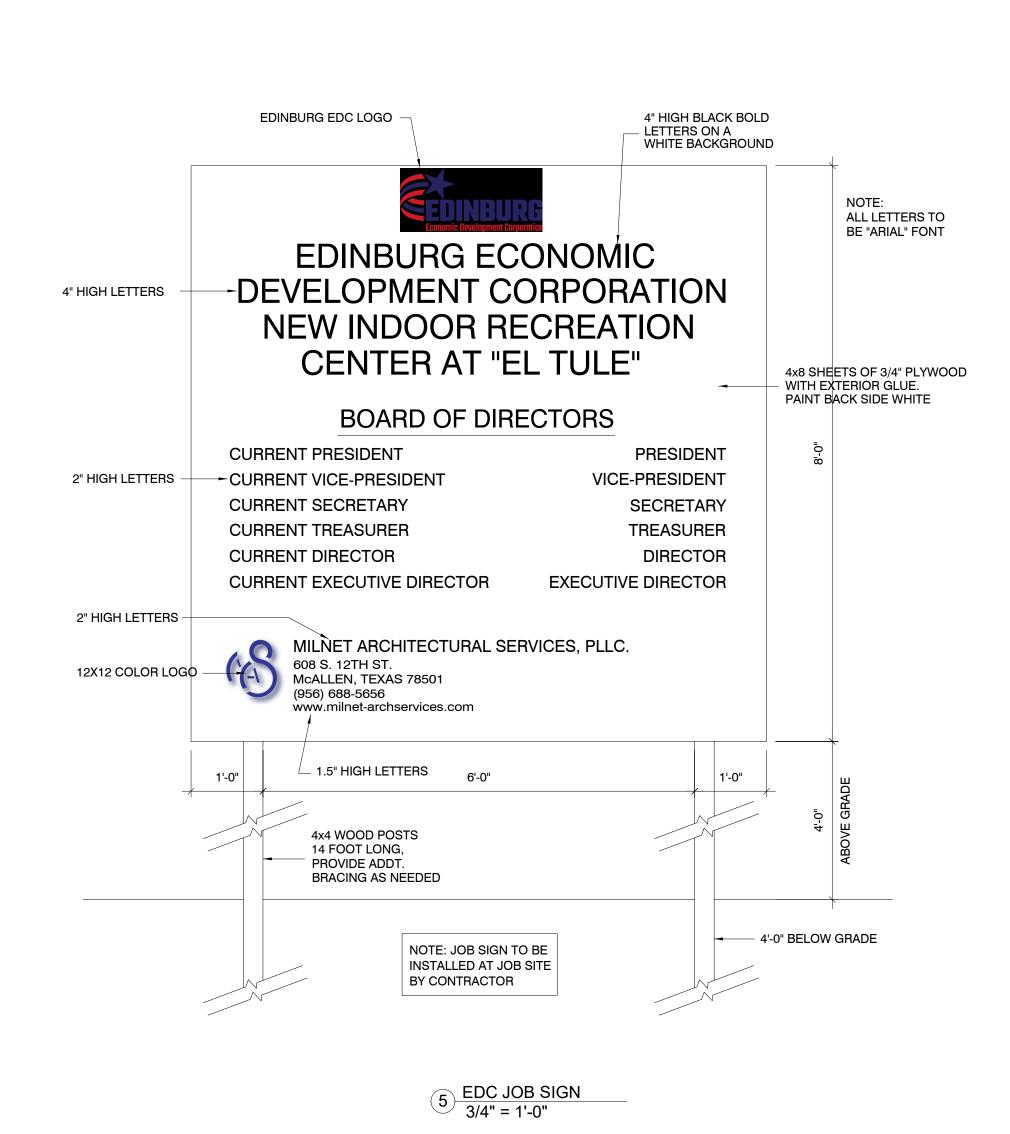
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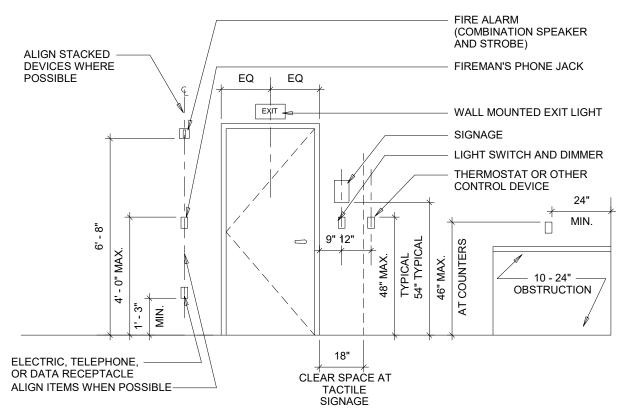
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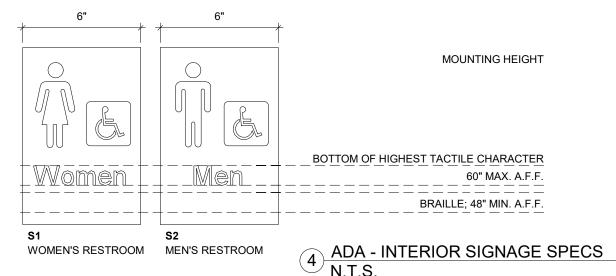


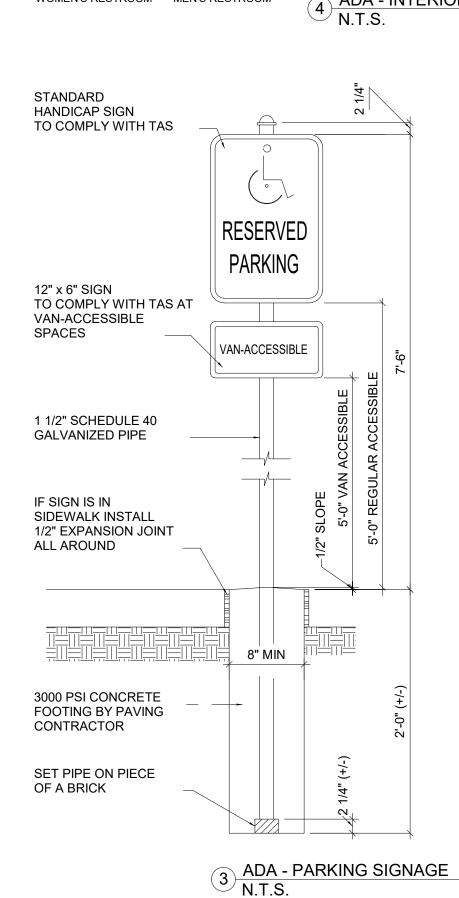


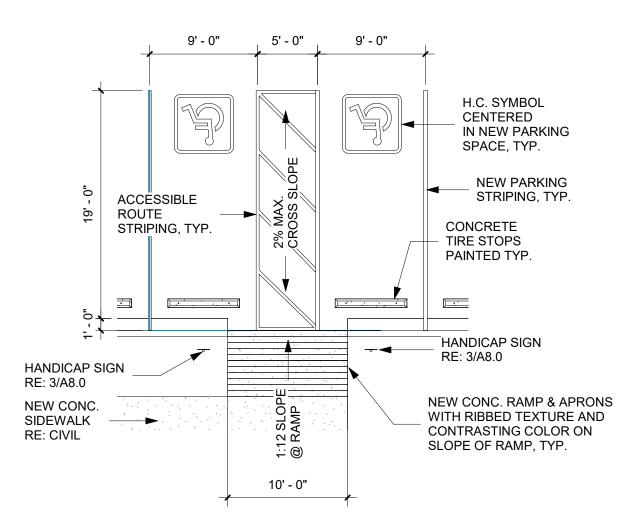


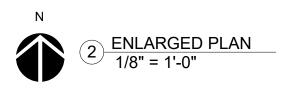
- COLOR AS CLOSE TO COUNTERTOP AS POSSIBLE BASED ON STANDARD
 COLORS
- SIGNS THAT DESIGNATE PERMANENT ROOMS AND SPACES MUST COMPLY WITH REQUIREMENTS FOR CHARACTER PROPORTION, RAISED ADN BRAILLED CHARACTERS AND PICTORIAL SYMBOLS SIGNS, FINISH AND CONTRAST, AND MOUNTING AND LOCATION HEIGHT.
- CHARACTER PROPORTION: CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I".
- 4. RAISED AND BRAILLED CHARACTERS AND PICTORIAL SYMBOL SIGNS (PICTORGRAMS): LETTERS AND NUMERALS SHALL BE RAISED 1/32 IN, UPPER-CASE, SANS SERIF AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 5/8 IN. (16mm) HIGH, BUT NO HIGHER THAN 2 IN. (50mm). PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE 6 IN. (152mm) MINIMUM IN HEIGTH.
- 5. FINISH AND CONTRAST: CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
- 6. MOUNTING LOCATION AND HEIGHT. WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ALONGSIDE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE INSTALLED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE INSTALLED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGND SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18" MIN. BY 18" MIN., CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.

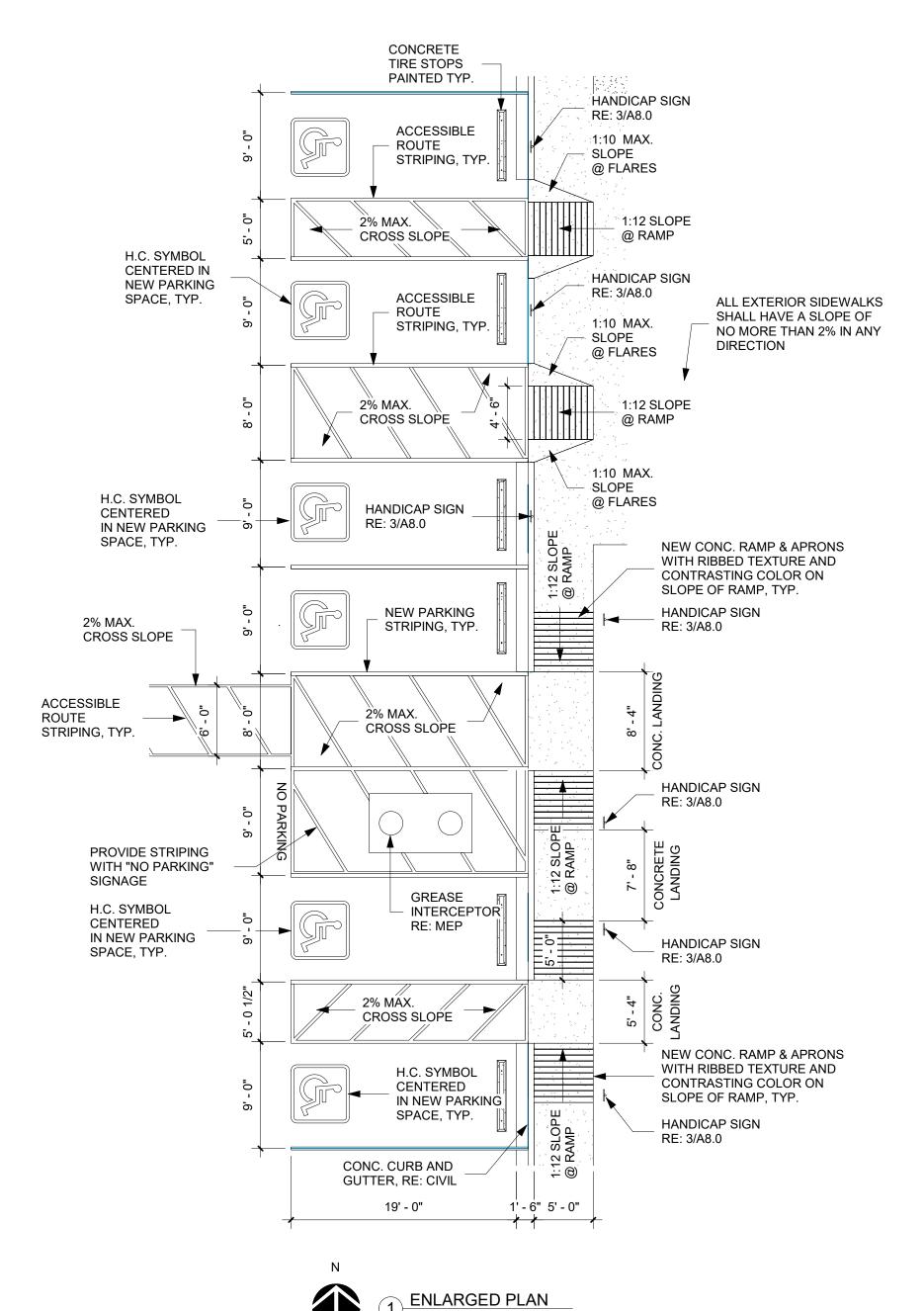














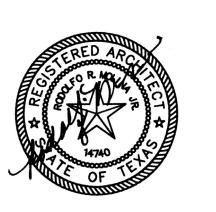
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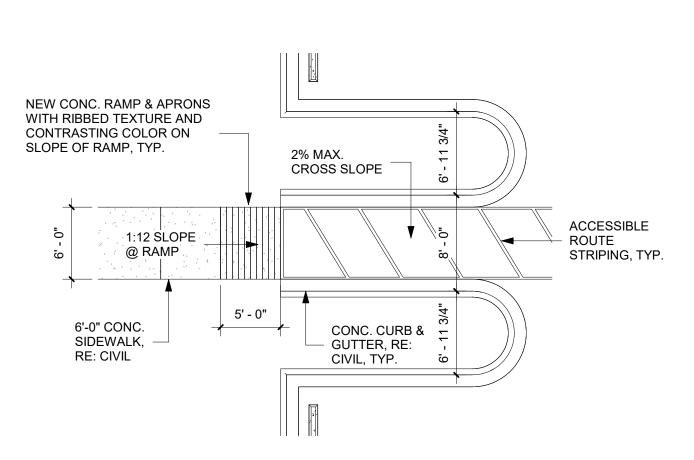
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> DATE JUNE 04, 2021

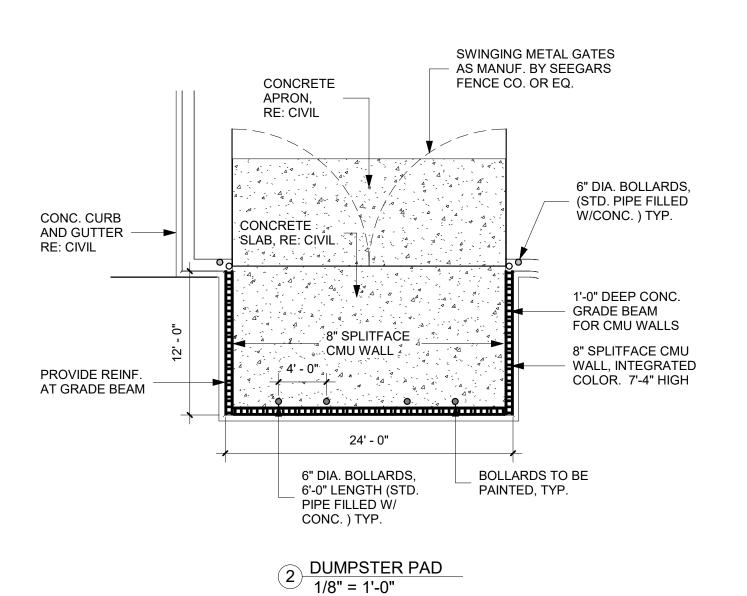
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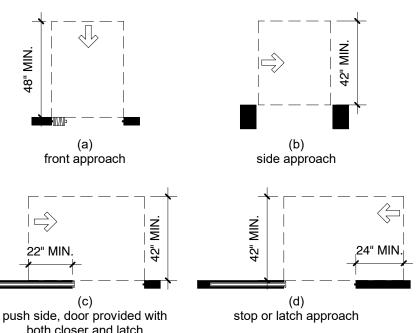
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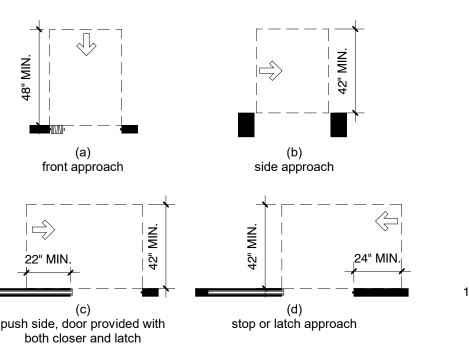
3 CURB RAMP DETAIL 1/8" = 1'-0"

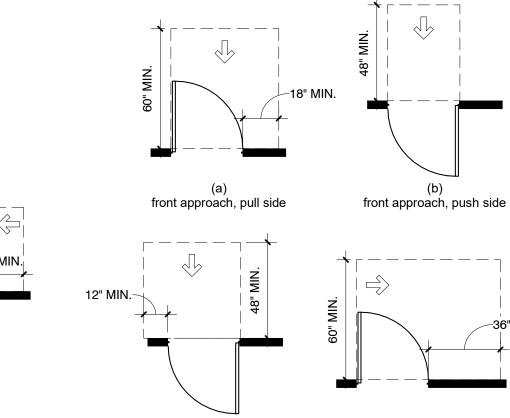


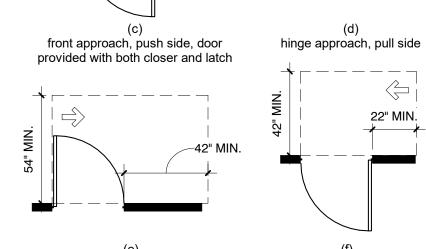


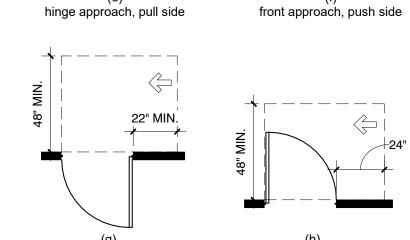
MANEUVERING CLEARANCE AT DOORWAYS WITHOUT DOORS, SLIDING DOORS, GATES AND FOLDING DOORS

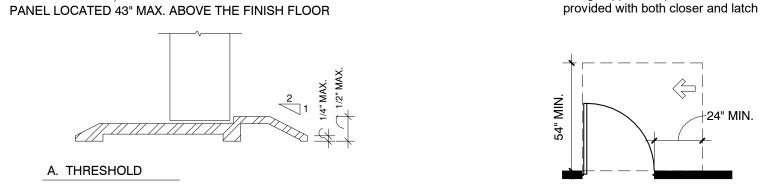
push side, door provided with both closer and latch











NOTES:

GENERAL NOTES:

1. 1/2" MAXIMUM TOTAL HEIGHT WITH 1/4" MAXIMUM VERTICAL CHANGE AT EDGE.

DOOR CRITERIA:

1. FLOOR OR GROUND SURFACE. FLOOR OR GROUND SURFACE WITHIN REQUIRED MANEUVERING CLEARANCE SHALL BE STABLE FIRM, AND SLIP RESISTANT. CHANGES IN LEVEL ARE NOT PERMITTED. 2. VISION LIGHTS. DOORS, GATES, AND SIDE LIGHTS ADJACENT TO

DOOR OR GATES, SHALL HAVE THE BOTTOM OF AT LEAST ONE GLAZED

2. 1:2 SLOPED BEVEL REQUIRED IF LEVEL CHANGE IS OVER 1/4" VERTICAL LEVEL CHANGE.

DOOR TYPE:

1. MINIMUM 10" HIGH SMOOTH SURFACE AT DOOR BOTTOM, EITHER ATTACHED PANEL OR BOTTOM RAIL.

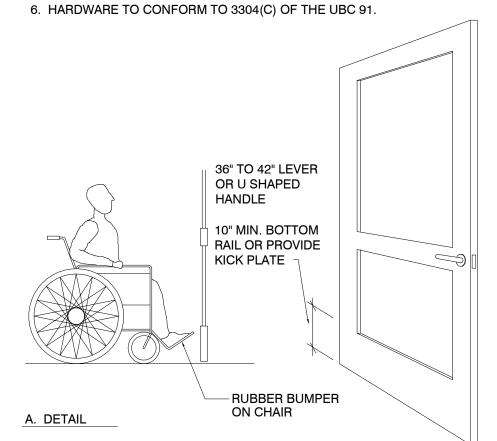
HARDWARE:

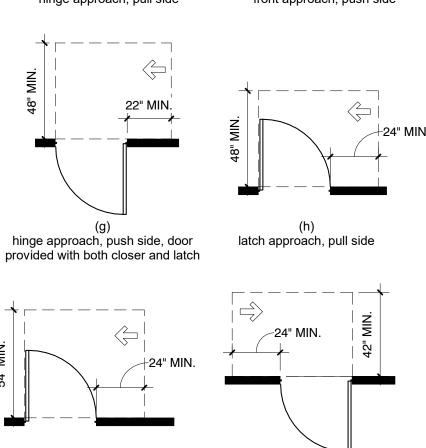
2. OPERABLE FROM INSIDE WITHOUT USE OF KEY OR SPECIAL KNOWLEDGE OR EFFORT.

3. OPENABLE BY SINGLE EFFORT LEVER-TYPE DEVICE (NOT REQUIRING GRASPING).

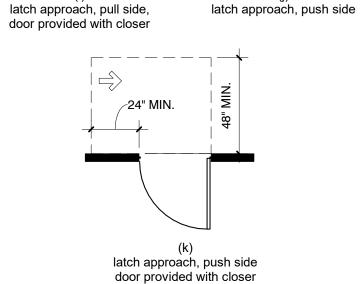
4. MOUNTED 36" TO 42".

5. MAXIMUM 8.5 POUNDS EFFORT TO OPERATE EXTERIOR DOOR, 5 POUNDS FOR INTERIOR.

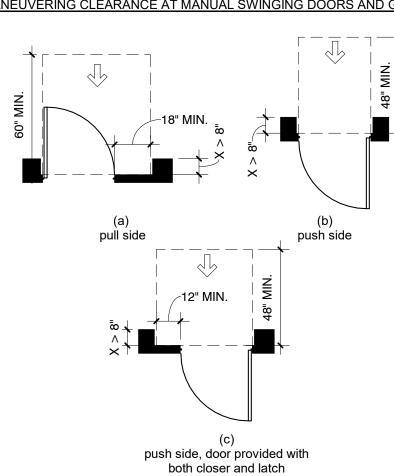




22" MIN.



MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS AND GATES



MANEUVERING CLEARANCE AT RECESSED DOORS AND GATES



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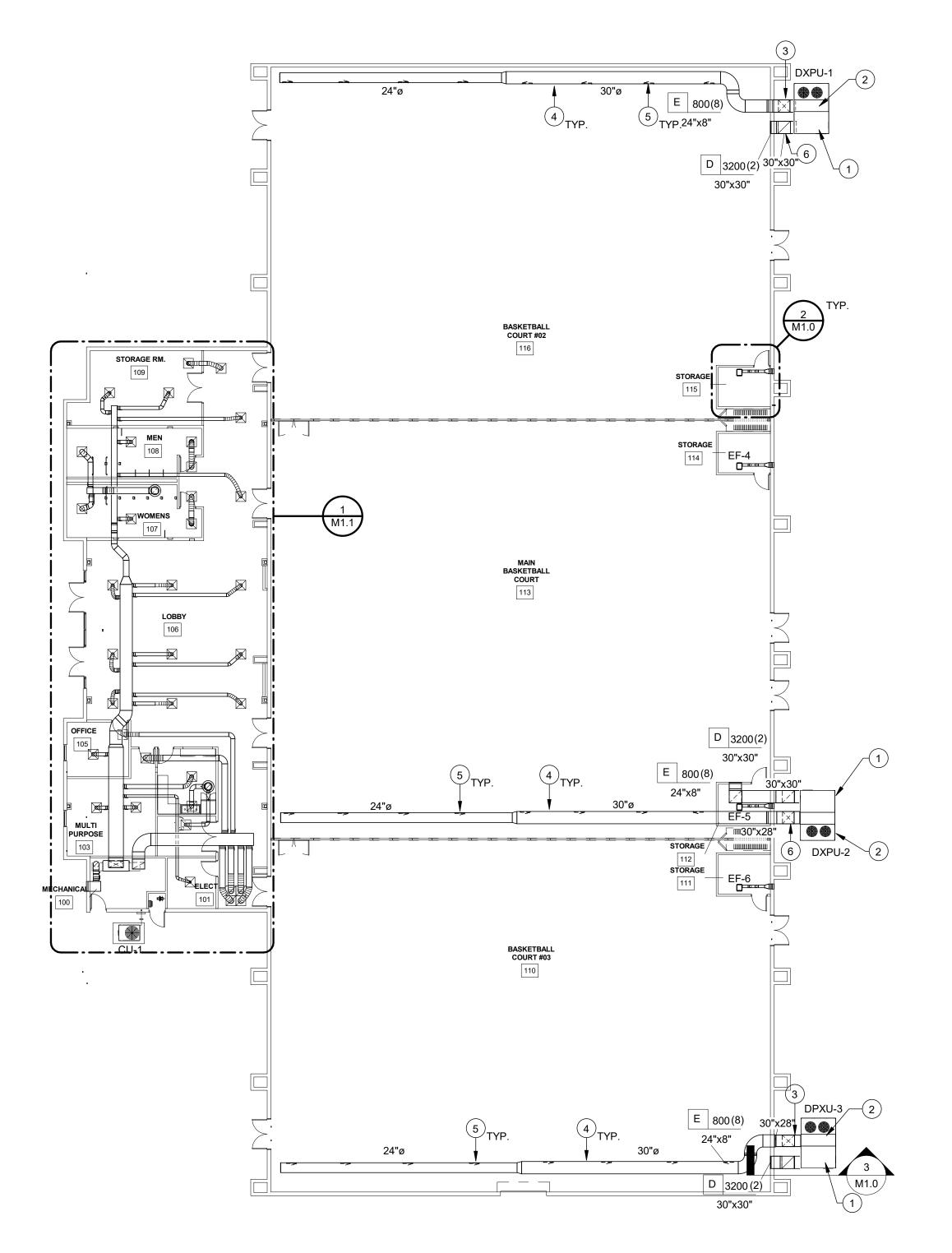
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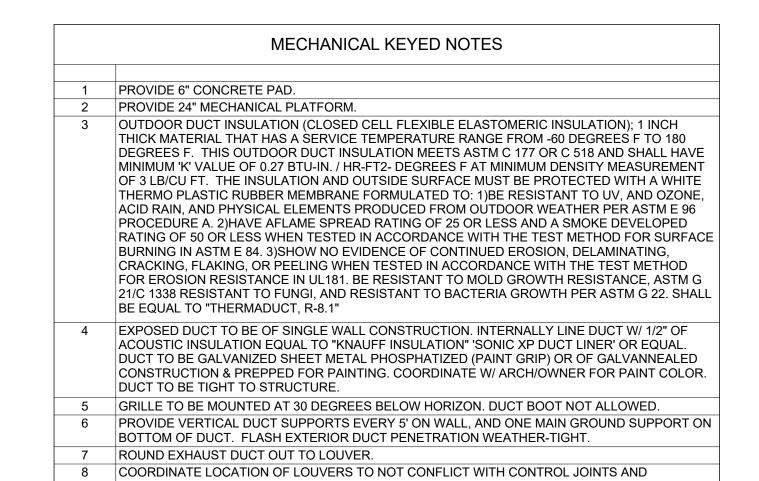
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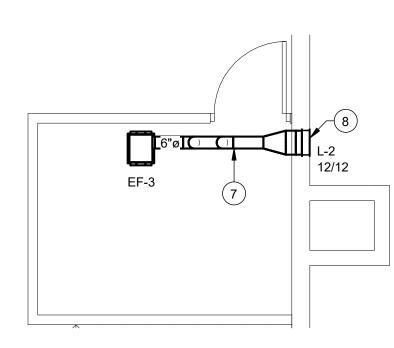
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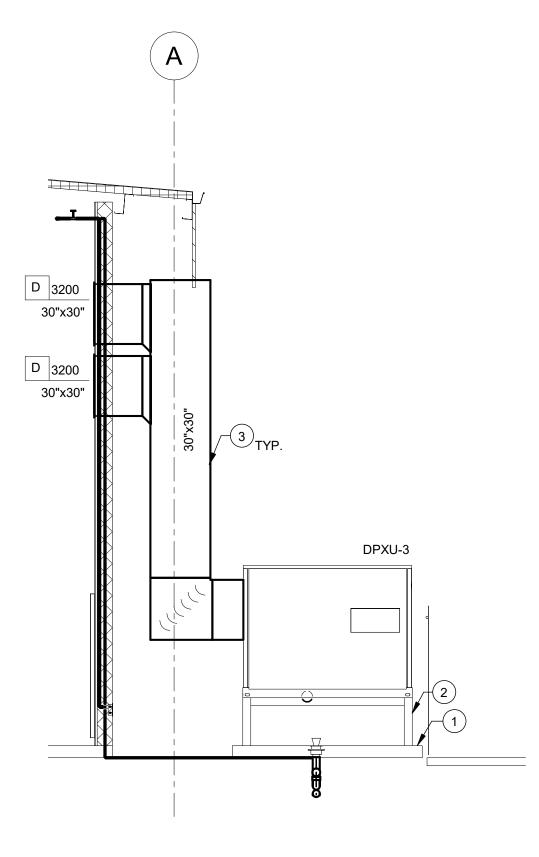




MECHANICAL FLOOR PLAN - STORAGE

ROOM TYP.

1/4" = 1'-0"

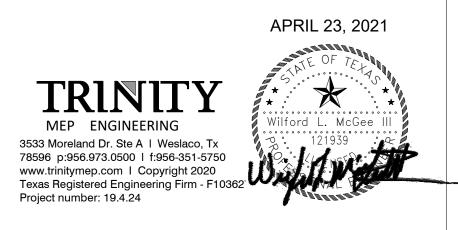


3 DXPU SECTION 1/4" = 1'-0"

MECHANICAL FLOOR PLAN - FIRST

1 FLOOR

1/16" = 1'-0"



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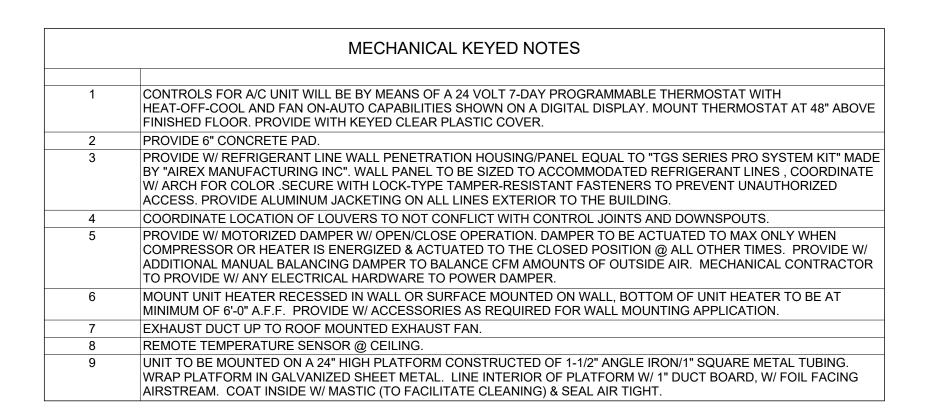
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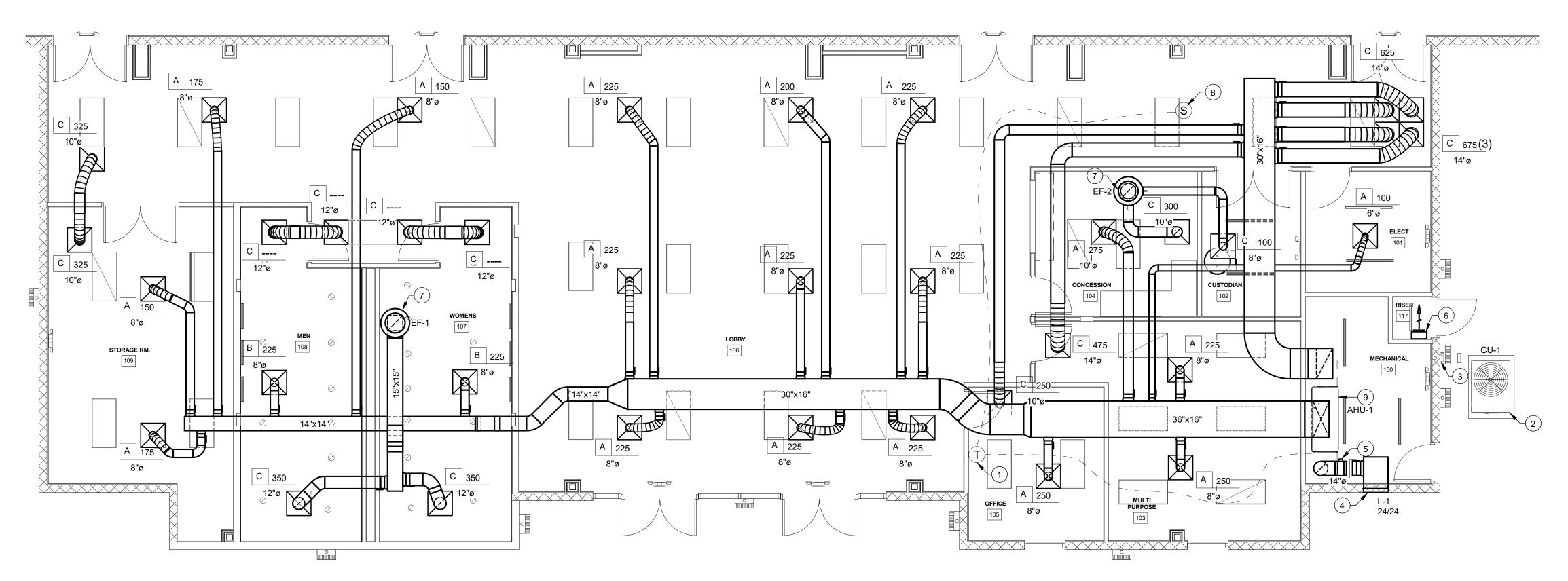
DATE APRIL 23, 2021

ISSUED FOR BIDS

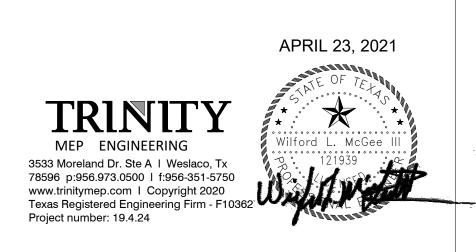
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1 MECHANICAL FLOOR PLAN - ENLARGED 3/16" = 1'-0"



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EDINBURG, TX.

ISSUED FOR BIDS

DATE

APRIL 23, 2021

SHEET NUMBER

GENERAL NOTES - MECHANICAL:

(1) THE MECHANICAL CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE WORK IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES UNDER THIS SECTION OF THE CONTRACT, IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE LOCAL CODES, HE/SHE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION, FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET APPLICABLE LOCAL CODES, AND RE-WORK SHALL BE AT CONTRACTOR'S EXPENSE.

(2) CONTRACTOR SHALL HANG AND INSTALL ALL DUCTWORK FLUSH WITH THE BUILDING STRUCTURE TO ACCOMMODATE NEW CEILINGS. CONTRACTOR SHALL COORDINATE ALL INSTALLATION WORK WITH ARCHITECTURAL AND ELECTRICAL DESIGN. ALL DUCTWORK SHALL BE MODIFIED AS NECESSARY AND REQUIRED TO FIT AROUND BUILDING STRUCTURES, ARCHITECTURAL BUILD-OUT AND ELECTRICAL CABLE TRAY INSTALLATIONS. MECHANICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE WORK SCOPE OF OTHER TRADES AND PARTICIPATE IN COORDINATING ALL CONSTRUCTION EFFORTS.

(3) CONNECT EACH DIFFUSER TO THE MAIN DISTRIBUTION DUCTS WITH A FLEX-DUCT SECTION; CONNECTIONS SHALL BE COMPLETED IN ACCORDANCE WITH THE DETAIL. EACH FLEX-DUCT CONNECTION SHALL INCLUDE A BUTTERFLY DAMPER TO BE INSTALLED AT THE TRUNK DUCT.

(4) CONTRACTOR SHALL PROVIDE ALL DUCTWORK REQUIRED TO COMPLETE THE HVAC SYSTEM. TIE IN BRANCH DUCTS TO MAIN DUCTS WITH SHEET METAL FLANGES. FLANGE CONNECTION SHALL BE FASTENED WITH CRIMPED SHEET METAL STRIPS AND SEALED WITH SILICONE CAULK.

(5) CONTRACTOR SHALL SUPPLY AND INSTALL FIRE DAMPERS AND ACCESS DOORS IN THE HORIZONTAL DUCTS WHERE THEY PENETRATE FIRE WALLS & BARRIERS.

(6) ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE DRILLED OR SAWED WHEN POSSIBLE, CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS. CONTRACTOR SHALL REINFORCE ALL OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS. PATCH AND SEAL OPENINGS WITH 8000 PSI CEMENT GROUT. INSTALL DECORATIVE TRIM (EQUIPMENT FLANGES, FRAMING OR ESCUTCHEONS) AROUND OPENINGS IN FINISHED AREAS. COORDINATE ALL CUTTING AND PATCHING WITH THE OTHER TRADES

(7) ON ANY WORK SHOWN ON MECHANICAL DRAWINGS REQUIRING DEMOLITION OF EXISTING OR NEW BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT-APPROVED PATCHING MATERIALS. REPAIRS SHALL BE COMPLETED ACCORDING TO ARCHITECTURAL SPECIFICATIONS. ALL REFINISHING SHALL BE APPROVED BY THE ARCHITECT.

(8) CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING THE INSTALLATION OF THE AIR DISTRIBUTION SYSTEM SHOWN. DUCTWORK, DUCT ACCESSORIES AND CONTROLS SHOWN AND REQUIRED SHALL BE SUPPLIED AND INSTALLED. ALL INSTALLATION WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CODES, INCLUDING NFPA 90A AND 90B.(NFPA 90A: STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS) (NFPA 90B: STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR-CONDITIONING SYSTEMS)

(9) CONTRACTOR SHALL BALANCE ALL AIR DISTRIBUTION SYSTEMS TO ACHIEVE THE AIR VOLUME REQUIREMENTS INDICATED. BALANCING SHALL INCLUDE ADJUSTMENT OF ALL MANUAL VOLUME DAMPERS, SHUTTER DAMPERS, ZONE DAMPERS (IF REQUIRED), BUTTERFLY DAMPERS AND INDIVIDUAL DIFFUSER VOLUME DAMPERS (FINAL BALANCING ONLY). CONTRACTOR SHALL SUPPLY THE ENGINEER WITH A COMPLETE BALANCING REPORT WHICH INCLUDES, VOLUME, ROOM REFERENCE AND ZONE VOLUME TOTALS.

(10) MOUNT ALL THERMOSTATS (SENSORS) 48" ABOVE THE FINISHED FLOOR LEVEL. THERMOSTATS SHOWN SHALL BE IN CONTROL OF THE ZONE SYSTEM WHICH IS SUPPLYING AIR TO THE AREA WHERE THE THERMOSTAT IS LOCATED. CONTRACTOR SHALL SUPPLY AND INSTALL ALL CONTROL VOLTAGE WIRING AND CONDUIT FOR THERMOSTAT (DDC CONTROL) INSTALLATION.

(11) CONTRACTOR SHALL INSTALL NEW REFRIGERANT PIPING FLUSH WITH THE BUILDING STRUCTURE AND MECHANICAL ROOM BOUNDARIES AS SHOWN. CONTRACTOR SHALL COORDINATE ALL INSTALLATION WORK WITH DUCTS AND ELECTRICAL CONDUIT. MECHANICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE WORK SCOPE OF OTHER TRADES AND PARTICIPATE IN COORDINATING ALL CONSTRUCTION EFFORTS.

(12) ALL PIPING SHALL BE INSULATED AND JACKETED. REFER TO THE SPECIFICATIONS. THE CONDENSING AND ROOF TOP CONDENSER COILS ARE TO BE COATED IN ACCORDANCE WITH THE SPECIFICATIONS.

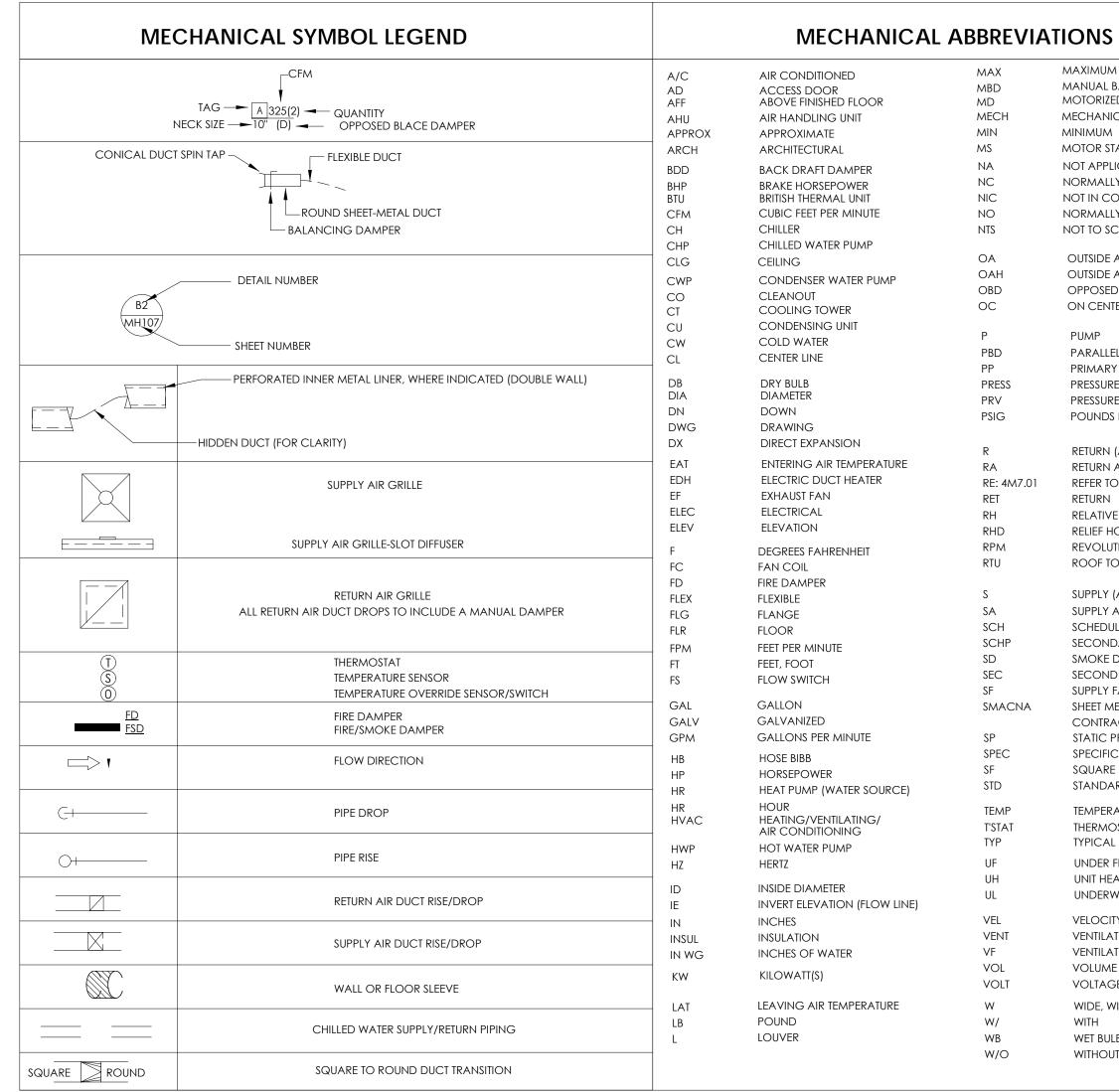
(13) PROVIDE EACH HVAC SYSTEM OF 2000 CFM & GREATER W/ DUCT SMOKE DETECTOR(S) IN COMPLIANCE WITH IBC 907.2.13.1.2 & 907.3.1 IN RETURN AIR DUCTWORK TO SHUTDOWN CONTROLS ON AIR HANDLERS AND SUPPLY FANS. SMOKE DETECTORS SHALL BE PROVIDED BY MECHANICAL & INSTALLED BY ELECTRICAL (OR REGISTERED FIRE ALARM COMPANY WHERE APPLICABLE). COORDINATE W/ EQUIPMENT MANUFACTURER & AUTHORITY HAVING JURISDICTION FOR RECOMMENDED MOUNTING LOCATION AND METHOD. COORDINATE TO PROVIDE A COMPLETE SYSTEM. PROVIDE BOTH SUPPLY AND RETURN SIDE

(14) PROVIDE SEVEN DAY PROGRAMMABLE THERMOSTAT, 24 HOUR SINGLE/MULTI STAGE COMMERCIAL THERMOSTAT. DUAL SET POINTS, OCCUPIED AND UNOCCUPIED PERIODS, UNIT OPTIMIZATION, AUTO HEATING/COOLING AND AUTO CHANGE OVER, SUB-BASE BACK-UP BATTERY AND TEMPORARY OVER-RIDE. 24 VAC CONTROL VOLTAGE. PROVIDE PLASTIC SEE THRU PROTECTIVE COVER WITH KEY LOCK.

(15) FILTER INSTALLATION AND REPLACEMENT A. INSTALL CONSTRUCTION RETURN FILTER AT EACH RETURN GRILLE BEFORE OPERATING PERMANENT AIR

HANDLERS DURING CONSTRUCTION. B. REPLACE FILTERS AFTER COMPLETING CONSTRUCTION AND BEFORE CONDUCTING BUILDING

REPLACE CONSTRUCTION RETURN FILTERS WITH FLUSH-OUT RETURN FILTERS. 2. REPLACE SUPPLY FILTERS.



INDEX OF SHEETS MECHANICAL					
MECHANICAL					
M1.0	MECHANICAL FLOOR PLAN				
M1.1	MECHANICAL ENLARGED FLOOR PLAN				
M2.0	MECHANICAL NOTES AND LEGEND				
M3.0	MECHANICAL SCHEDULES				
M4.0	MECHANICAL DETAILS				

H.V.A.C. SYSTEM

MANUAL BALANCING DAMPER

MOTORIZED DAMPER

MECHANICAL

MOTOR STARTER

NOT APPLICABLE

NORMALLY CLOSED

NOT IN CONTRACT

OUTSIDE AIR INTAKE HOOD

OPPOSED BLADE DAMPER

PARALLEL BLADE DAMPER

PRIMARY CHILLED WATER PUMP

PRESSURE REDUCING VALVE

REFER TO DETAIL 4, SHEET M7.01

REVOLUTIONS PER MINUTE

SECONDARY CHILLED WATER PUMP

SHEET METAL AND AIR CONDITIONING

CONTRACTORS NATIONAL ASSOCIATION

SUPPLY (AIR DEVICE)

SMOKE DAMPER

STATIC PRESSURE

SPECIFICATION

SQUARE FOOT

TEMPERATURE

THERMOSTAT

UNDER FLOOR

UNDERWRITERS LABORATORIES

UNIT HEATER

TYPICAL

VELOCITY

VENTILATE

VOLUME

VOLTAGE

WITH

WET BULB

WITHOUT

WIDE, WIDTH

VENTILATION FAN

RETURN (AIR DEVICE)

RELATIVE HUMIDITY

POUNDS PER SQUARE INCH (GAUGE)

NORMALLY OPEN

NOT TO SCALE

OUTSIDE AIR

ON CENTER

PRESSURE

RETURN AIR

RELIEF HOOD

ROOF TOP UNIT

SUPPLY AIR

SCHEDULE

SECOND

SUPPLY FAN

RETURN

PUMP

MINIMUM

THE WORK INCLUDES PROVIDING THE HVAC SYSTEMS, INCLUDING DUCTWORK, DIFFUSERS AND GRILLES, INSULATION, CONTROLS, AND ALL OTHER EQUIPMENT NECESSARY FOR A COMPLETE FUNCTIONING SYSTEM. HVAC SYSTEM SHALL INCLUDE BUT IS NOT LIMITED TO THE FOLLOWING:

- HEATING, VENTILATION, AND AIR CONDITIONING (HVAC) UNITS.
- SUPPLY AND RETURN DUCTWORK SYSTEMS WITH GRILLES, DIFFUSERS, FILTERS, AND DAMPERS.
- * TEMPERATURE CONTROL SYSTEM INCLUDING LOW VOLTAGE WIRING AND CONDUIT.
- DUCT, PIPING, AND EQUIPMENT INSULATION, WHERE INDICATED HEREIN.
- CONTROLS AND WIRING FOR CONNECTION TO LANDLORD'S FIRE-SMOKE ALARM SYSTEM (WHERE APPLICABLE).

THE CONTRACTOR SHALL COORDINATE ALL NEW DUCTWORK INCLUDING DUCTWORK INSULATION AND REINFORCING WITH EXISTING DUCTWORK AND DUCTWORK ANGLE BRACING SUCH THAT THE NEW DUCTWORK WILL FIT WITHIN THE SPACE LIMITATIONS OF THE PROJECT.

CONDENSATE PIPING: CONDENSATE PIPING SHALL BE A MINIMUM OF 3/4" COPPER TYPE "L" PIPE. ALL CONDENSATE DRAINS SHALL BE INSULATED WITH 1/2" THICK CLOSED CELL INSULATION SIMILAR TO

STANDARDS MSS SP- 69, "PIPE HANGERS AND SUPPORTS--SELECTION AND APPLICATION".

THE DESIGN, SELECTION, SPACING AND APPLICATION OF HORIZONTAL PIPE HANGERS, SUPPORTS, RESTRAINTS, ANCHORS AND GUIDES SHALL BE IN ACCORDANCE WITH THE STANDARD CODE FOR PRESSURE PIPING ANSI B31.1 AND THE LATEST EDITION OF THE MANUFACTURERS' STANDARDIZATION SOCIETY

PROVIDE PIPE COVERING PROTECTION SHIELDS AND SADDLES FOR ALL INSULATED PIPING AT THE LOCATIONS OF ALL SUPPORTS. THE PROTECTION SHIELD LENGTH AND GAUGE THICKNESS FOR USE AT EACH CLEVIS HANGER SHALL BE AS SPECIFIED FOR TYPE 40 PROTECTION SHIELDS IN THE CURRENT EDITION OF MSS SP-69. PROTECTION SHIELDS SHALL BE GALVANIZED AND SHALL BE ARRANGED TO COVER ONE-HALF OF THE CIRCUMFERENCE OF THE INSULATION AND SHALL BE MOUNTED ON THE OUTSIDE OF THE INSULATION WITH INSULATION BLOCKING BETWEEN THE PIPE AND SADDLE TO PREVENT CRUSHING OF THE INSULATION. INSULATION BLOCKING SHALL BE UPJOHN 2 POUND HIGH DENSITY MOLDED URETHANE OR SEGMENTED MACHINERY CORK DIPPED IN HOT ASPHALT VAPOR SEAL OF NOT LESS THAN THE SAME LENGTH AND CIRCUMFERENCE AS THE PIPE PROTECTION SHIELD.

ALL HANGERS, HARDWARE, RODS, CLAMPS, CHANNELS, BASE PLATES, ANGLES, BOLTS, NUTS AND OTHER FACTORY-BUILT OR SHOP FABRICATED PIPE SUPPORT DEVICES SHALL BE GALVANIZED OR CADMIUM PLATED UNLESS NOTED OTHERWISE ON THE DRAWINGS. ALL SHOP FABRICATED AND WELDED STEEL SUPPORTS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.

ALL CONCRETE INSERTS FOR HANGER RODS SHALL BE NATIONAL PIPE HANGERS CORPORATION FIGURE 606 WITH FIGURE 607, OR GRINNELL FIGURE 282, FIGURE 152, OR APPROVED EQUAL. METAL DECK CONCRETE INSERT SHALL BE F & S MANUFACTURING CORPORATION FIGURE 282, GALVANIZED FABRICATED STEEL METAL DECK CEILING BOLT, PHILLIPS RED HEAD, OR APPROVED EQUAL. HANGER RODS, INSERTS, ETC., SHALL BE SIZED AND INSTALLED AS RECOMMENDED BY THE HANGER MANUFACTURER FOR THE SERVICE INTENDED.

FIELD VERIFY THE EXACT SIZES AND LOCATIONS OF ALL EXISTING DUCTWORK AND PIPING PRIOR TO DEMOLITION OF ANY EXISTING WORK. THE DEMOLITION WORK SHALL BE COORDINATED WITH THE NEW WORK TO ASSURE PROPER LIMITS OF DEMOLITION.

WARRANTY: PROVIDE LABOR AND MATERIALS TO REPAIR OR REPLACE DEFECTIVE PARTS AND MATERIALS AS REQUIRED FOR ONE YEAR AFTER SUBSTANTIAL COMPLETION OR OWNER ACCEPTANCE OF THE COMPLETED PROJECT. PROVIDE A SEPARATE LINE ITEM DEDUCT AMOUNT ON THE PROPOSAL FORM TO DELETE WARRANTY SERVICE, AT THE OWNER'S OPTION.

DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS, AS REQUIRED. PROVIDE ALL DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE SYSTEM FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED. THE WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES OR ORDINANCES AND

COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE LANDLORD, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE.

EXTRA STOCK: PROVIDE TWO SETS OF REPLACEMENT FILTERS PER EACH INSTALLED FOR ALL THE ROOFTOP UNITS, AND OTHER EQUIPMENT AND DEVICES, AND PROVIDE AN ITEMIZED LIST OF THE NUMBER, TYPE REQUIRED, AND WHERE USED. OBTAIN RECEIPT FROM OWNER THAT THESE ITEMS HAVE BEEN DELIVERED AND ACCEPTED BY THE OWNER'S REPRESENTATIVE.

DUCT DIMENSIONS: UNLESS OTHERWISE NOTED, DUCT DIMENSIONS ON DRAWING ARE SHEET METAL DIMENSIONS ON UNLINED DUCTS (INTERIOR DIMENSIONS).

SHEET METAL DUCTWORK: SHEET METAL DUCTWORK SHALL BE FABRICATED AND INSTALLED TO MEET ASHRAE AND SMACNA STANDARDS, FOR 1" W.G. PRESSURE CLASS. SHEET METAL SHALL BE GALVANIZED SHEET STEEL OF LOCK FORMING QUALITY, ASTM A-525. ALL ANGLE IRON USED FOR SUPPORT SHALL BE GALVANIZED. CONNECTIONS TO WALLS OR FLOOR SHALL BE AIR TIGHT WITH ANGLE IRON AND CAULKING. SEAL ALL DUCT SEAMS, TRANSVERSE AND LONGITUDINAL, AIR TIGHT. PROVIDE TURNING VANES AT ALL ELBOWS OR OFFSETS EXCEEDING 30°.

DUCT SHALL BE EXTERNALLY WRAPPED W/ 2" FIBERGLASS BLANKET INSULATION.

RIGID ROUND GALVANIZED DUCT SHALL BE SPIRAL OR SNAP LOCK GALVANIZED SHEETMETAL COMPLYING WITH SMACNA.

FIBERGLASS DUCT BOARD IS AN ACCEPTABLE W/ PRIOR WRITTEN OWNER PERMISSION. MINIMUM R-VALUE OF 5 REQUIRED FOR CONDITIONED SPACES AND MINIMUM R-VALUE OF 8 FOR UNCONDITIONED SPACES.

FLEXIBLE DUCT CONNECTOR: WHERE INDICATED PROVIDE U.L. LABELED 30oz. NEOPRENE COATED FIBERGLASS FABRIC DUCT CONNECTORS.

GRILLES AND DIFFUSERS: PROVIDE GRILLES, DIFFUSERS, AND DAMPERS IN SIZES, CAPACITIES, MATERIALS, AND PATTERN INDICATED ON THE DRAWINGS.

ACCESS PANELS: PROVIDE HINGED ACCESS PANELS IN DUCTWORK WHERE REQUIRED FOR ACCESS TO EQUIPMENT. PROVIDE INSULATED ACCESS DOORS IN INSULATED DUCTWORK.

PROVIDE WHERE APPLICABLE, DUCT MOUNTED SUPPLY AND/OR RETURN AIR PHOTOELECTRIC TYPE UL LISTED SMOKE DETECTORS. DETECTORS SHALL BE LISTED FOR THE AIR VELOCITIES ENCOUNTERED. PROVIDE INTERLOCK WIRING AND RELAYS FOR UNIT SHUT DOWN. ON ACTIVATION OF ANY DETECTOR, ALL HVAC UNIT FANS SHALL STOP.

TEST AND ADJUST EACH PIECE OF EQUIPMENT AND EACH SYSTEM AS REQUIRED TO ASSURE PROPER BALANCE AND OPERATION. TEST AND BALANCE SHALL BE PERFORMED BY AN INDEPENDENT NEBB OR AABC REGISTERED CONTRACTOR. ELIMINATE NOISE AND VIBRATION, AND ASSURE PROPER FUNCTION OF ALL CONTROLS, MAINTENANCE OF TEMPERATURE, AND OPERATION. BALANCE MECHANICAL SYSTEM, AND SUBMIT COMPLETED TEST

EXPOSED ROUND (SPIRAL) DUCT TO BE INTERNALLY LINED. SUPPLY DUCTWORK SHALL BE LINED W/1" INSULATION. RETURN/EXHUAST/VENTILATION DUCT TO BE LINED W/1/2" INSULATION. CONCEALED ROUND DUCT TO BE EXTERNALLY INSULATED. USING R-5 INSULATION MIN FOR CONDITIONED SPACES (WHERE PLENUM RETURN IS USED) OR R-8 INSULATION MIN FOR UNCONDITIONED SPACES.

APRIL 23, 2021

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AIR HANDLING UNIT SO	CHEDULE	DX PACKAGED UNIT S	CHEDULE	FAN SCHEDU	ILE			
TAG	AHU-1	TAG	DXPU-1,2,3	TAG	EF-1	EF-2	EF-3-6	
TYPE	SNGL ZN VAV	TYPE	SNGL ZN VAV	SERVICE	RRs	CONCESSION	STORAGE	
FLOW CONFIGURATION	VERTICAL	DISCHARGE CONFIGURATION	HORIZONTAL	LOCATION	ROOF	PLENUM	CEILING	
AREA SERVED	OFFICES	AREA SERVED	GYMs	FAN PROPERTIES				
INDOOR UNIT FAN		FAN DATA		CFM	700	400	100	
SUPPLY CFM	4200	SUPPLY CFM	6400	FAN RPM	1629	1479	949	
MIN. OUTSIDE AIR (CFM)	750	MIN. OUTSIDE AIR (CFM)	1850	EXT SP (IN WG)	0.5	0.5	0.2	
EXT. STATIC INCHES WC	0.75	EXT. STATIC INCHES WC	0.75	FAN POWER	1/6 HP - ECM	1/10 HP - ECM	80 W	
MIN FAN POWER	3.0 HP - VFD	MIN FAN POWER	3.0 HP - VFD	VOLTS/PHASE	277/1	277/1	277/1	
INDOOR UNIT COOLING COIL		COOLING COIL		SOUND LEVEL	9.7 SONES	6.9 SONES	1.5 SONES	
ENTERING AIR DB/WB (°F)	78.54/65.27	ENTERING AIR DB/WB (°F)	81.38/67.73	MOUNTING	14" TDI CURB	14" TDI CURB	CEILING	
LEAVING AIR DB/WB (°F	56.04/54.31	LEAVING AIR DB/WB (°F)	55.85/55.85					
MIN. TOTAL/SENSIBLE CAPACITY (MBH)	141.41/106.83	MIN. TOTAL/SENSIBLE CAPACITY (MBH)	233.39/176.45	MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	
DESIGN RETURN AIR DB/WB (°F)	73/61	DESIGN RETURN AIR DB/WB (°F)	73/61	MODEL	G-095-VG	G-090-VG	SP-B110	
DESIGN OUTSIDE AIR DB/WB (°F)	104/81	DESIGN OUTSIDE AIR DB/WB (°F)	102/81	MAX WEIGHT	50 lbs	50 LBS	25 lbs	
INDOOR UNIT HEATING SELECTION		HEATING SELECTION		NOTES	1-6	1-3,5-7	1-5	
HEATER TYPE/AMBIENT DESIGN DB (°F)	ELEC/33	HEAT TYPE/AMBIENT DB (°F)	ELEC/32					
HEAT INPUT/STAGES	29.9 KW/2	HEAT INPUT/STAGES	54.0 KW/2	NOTES:				
ENTERING/LEAVING DB (°F)	66/88.5	ENTERING/LEAVING DB (°F)	64/91	01. PROVIDE WITH FACTORY INSTALLED	DISCONNECT.			
DETAILS AND ACCESSORIES		DETAILS AND ACCESSORIES		02. PROVIDE W/ FAN MOUNTED POTENT	TIOMETER FOR SPEE	D CONTROL.		
VOLTAGE/PHASE	480/3	MIN COOL/HEAT EFFICIENCY	11 EER/-	03. PROVIDE W/ BACKDRAFT DAMPER.				
MCA/MOCP	48/50	COMPRESSOR QTY/COOL STAGE QTY	2/3	04. INTERLOCK FAN W/ LIGHTS.				
		VOLTAGE/PHASE	480/3	05. PROVIDE W/ LIFTING LUGS.				
MANUFACTURER	TRANE	MCA/MOCP	76/80	06. PROVIDE IBC 2015 COMPLIANT CUR	B & ATTACHMENTS	FROM UNIT TO CURB	3 & CURB TO	
MODEL	TWE150	MOUNTING	24" PLATFORM	STRUCTURE. EQUIPMENT OR CURB M	IANUFACTURER IS R	ESPONSIBLE FOR PRO	OVIDING	
NOMINAL UNIT SIZE TONNAGE	12.5 TONS			ENGINEERED DETAIL ANALYSIS OF:				
MAX WEIGHT (lbs)	450 LBS	MANUFACTURER	TRANE	A) ATTACHMENT OF EQUIPMENT TO	CURB.			
NOTES	1-7	MODEL	THH240	B) CURB TO STRUCTURE.				
OONIDENIONIO LINUT OO	EB.III.E	NOMINAL UNIT SIZE TONNAGE	20.0 Tons	C) CURB & ATTACHMENT HARDWA	RE STRENGTH.			
CONDENSING UNIT SC	HEDULE	MAX WEIGHT	2500 lbs	REFER TO ARCHITECTURAL & STRUCT	REFER TO ARCHITECTURAL & STRUCTURAL DRAWINGS FOR ROOF SUBSTRATE DETAILS.			
		NOTES:	ALL	EQUIPMENT OR CURB MANUFACTUR	rer is also respon	NSIBLE FOR PROVIDIN	IG ENGINEERED	
TAG	CU-1			INSTALLATION DRAWINGS FOR ITEM:	S 'A' & 'B' LISTED AB	OVE. BOTH, THE ENGI	INEERED	
OUTDOOR UNIT ELECTRICAL		NOTES:		ANALYSIS & THE ENGINEERED INSTAI	LATION DRAWING	S SHALL BE PERFORM	ED SPECIFICALLY	
VOLTAGE/PHASE	480/3	01. PROVIDE W/ FACTORY DISCONNECT & GFI DUPLEX 120V RECEPTACLE, FACTORY PWRD. FOR THIS BUILDING & PROJECT SITE & STAMPED & SEALED BY			ED BY A TEXAS LICENS	SED ENGINEER.		
MCA/MOCP	26/35	02. PROVIDE CONDENSING COILS W/ HAIL GUARDS OPTION/ACCESSORY. SUBMITTALS WILL NOT BE APPROVED UNTIL ALL DOCUMENTATION			MENTATION LISTED ABO	OVE IS		
DETAILS AND ACCESSORIES		03. PROVIDE W/ MOTORIZED OA DAMPER, DIFF ENTH ECON, & BAR	RR RELIEF DAMPER.	PROVIDED ACCURATELY.				
MIN COOL/HEAT EFFICIENCY	11.2 EER/-	04. PROVIDE W/ HINGED FILTER ACCESS DOOR & MERV 8 FILTERS, T	TWO SETS.	07. PROVIDE W/ WALL MOUNTED ROTA	RY TIMED DIAL SWIT	TCH, 0-60 MINS, LABEI	LED "VENT FAN".	
COMPRESSOR QTY/STAGE QTY	2/2	05. TRANE, LENNOX, CARRIER, APPROVED AS MANUFACTURERS.						
COOL/HEAT AMBIENT OR (°E)	104/33							

07. CLEARANCES & SA/RA COLLARS SHOWN ON PLANS ARE FOR SCHEDULED MAKE/MODEL.

IF A SUBSTITUTION IS MADE, CONTRACTOR TO BE RESPONSIBLE FOR PROVIDING SA/RA

09. MECHANICAL CONTRACTOR TO PROVIDE ADDITIONAL BELTS & PULLEYS AS NECESSARY

SUCH THAT TESTING ADJUSTING & BALANCING CAN BE PERFORMED TO THE DESIGN AIR

0. PROVIDE W/ FACTORY DUCT SMOKE DETECTOR. REFER TO MANUFACTURER'S INTALLATION INSTRUCTIONS FOR INSTRUCTIONS. TO BE MOUNTED & WIRED BY MECH CONTRACTOR.

08. UNIT TO HAVE SINGLE ZONE VAV CONTROL & CO2 DEMAND CONTROL VENTILATION.

MANUFACTURER'S REQUIREMENTS.

VOLUMES SPECIFIED IN SCHEDULE ABOVE.

01. MECHANICAL CONTRACTOR TO PROVIDE ADDITIONAL BELTS & PULLEYS AS NECESSARY SUCH THAT TESTING ADJUSTING & BALANCING CAN BE PERFORMED TO THE DESIGN AIR VOLUMES SPECIFIED IN SCHEDULE ABOVE.

COOL/HEAT AMBIENT DB (°F

NOMINAL UNIT SIZE TONNAGE

MANUFACTURER

MAX WEIGHT

TRANE

TTA 150

12.5 TONS

425 lbs

5-8

02. PROVIDE AUXILIARY DRAIN PAN W/ CUTOFF FLOAT SWITCH WIRED TO T-STAT. 03. PROVIDE W/ FACTORY DUCT SMOKE DETECTOR. REFER TO MANUFACTURER'S INTALLATION MANUAL FOR INSTRUCTIONS. TO BE MOUNTED & WIRED BY MECH CONTRACTOR. 04. PROVIDE W/ FRONT ACCESS E-Z FILTER FRAME & TWO SETS OF MERV 8 FILTERS.

05. PROVIDE W/ SINGLE POINT PWR; TRANE, CARRIER, LENNOX, ACCEPTABLE MFGs. 06. CLEARANCES & SA/RA COLLARS SHOWN ON PLANS ARE FOR SCHEDULED MAKE/MODEL. IF A SUBSTITUTION IS MADE, CONTRACTOR TO BE RESPONSIBLE FOR PROVIDING SA/RA DUCTWORK & CLEARANCES AS PER SUBSTITUTED MANUFACTURER'S REQUIREMENTS.

07. PROVIDE W/ SINGLE ZONE VAV CONTROL. 08. PROVIDE CONDENSER W/ FACTORY HAIL GUARDS & RUBBER ISOLATOR MOUNTING KIT. FAN SCHEDULE LOUVER SCHEDULE AIR DEVICE SCHEDULE EF-3-6 L-2 EF-2 SERVICE CONCESSION STORAGE **EXHAUST** SUPPLY SUPPLY RETURN RETURN SUPPLY INTAKE SERVICE TYPE RRs LOCATION ROOF CEILING SERVICE AHU-1 EF's PHYSICAL PROPERTIES FAN PROPERTIES DETAILS AND ACCESSORIES FACE SIZE SEE PLANS 24"x24" SEE PLANS MAX CFM NECK SIZE SEE PLANS SEE PLANS SEE PLANS SEE PLANS SEE PLANS 1479 949 FAN RPM 24/24 MOUNTING SURFACE CEILING CEILING ROUND DUCT 1629 LENGTH/HEIGHT (IN) 12/12 CEILING WALL EXT SP (IN WG) 0.5 0.5 0.2 FREE AREA (SQ FT) 0.26 390 FAN POWER 1/6 HP - ECM 1/10 HP - ECM 80 W MAX VELOCITY (FPM) DAMPER TYPE | OPPOSED BLADE | OPPOSED BLADE | OPPOSED BLADE AIR SCOOP VOLTS/PHASE MAX PRESSURE DROP (IN. H2O) 0.05 0.05 ACCESSORY INSUL BACKPAN INSUL BACKPAN ROUND FRAME 9.7 SONES 6.9 SONES 1.5 SONES FINISH | 1.2 mils 70% PVDF 1.2 mils 70% PVDF COLOR FINISH WHITE SOUND LEVEL WHITE WHITE 14" TDI CURB 14" TDI CURB CEILING INCLUDED SCREENS BIRD MATERIAL STEEL ALUMINUM ALUMINUM HEAVY DUTY STEEL NONE ACTUATION TYPE NONE MANUFACTURER **GREENHECK** GREENHECK GREENHECK BORDER STYLE 2" FLANGE 2" FLANGE MANUFACTURER PRICE PRICE PRICE SCD SDGE SP-B110 ASCD MODEL G-095-VG G-090-VG MODEL MAX WEIGHT 50 lbs 50 LBS 25 lbs MAUNUFACTURER GREENHECK **GREENHECK** NOTES 1,2 EDJ-401 1-3,5-7 MODEL EHH-401 NOTES 1-5 NOTES 1,2

01. LOUVER OPENINGS TO BE SAW CUT. 02. SEAL OPENING WEATHER TIGHT.

UNIT HEATER SCHEDULE

01. COORDINATE COLOR OF AIR DEVICE & FRAME W/ ARCHITECT.

02. PROVIDE W/ FLUSH-TO-ROUND DUCT AIR DEVICE FRAME: DUCT BOOT UNACCEPTABLE.

TAG	UH-1
SERVICE/LOCATION	RISER ROOM
DETAILS & ACCESSORIES	
VOLTS/PHASE	208/1
POWER INPUT	2 KW
AMPERAGE	10
MANUFACTURER	MARKEL
MODEL	(3000 series)
NOTES	ALL

01. PROVIDE W/ AUTOMATICE ON/OFF VIA THERMOSTAT.

02. UNIT TO SWITCH ON WHEN SPACE TEMPERATURE REACHES 35°. 03. PROVIDE W/ DISCONNECT.

04. PROVIDE W/ SURFACE MOUNT FRAME



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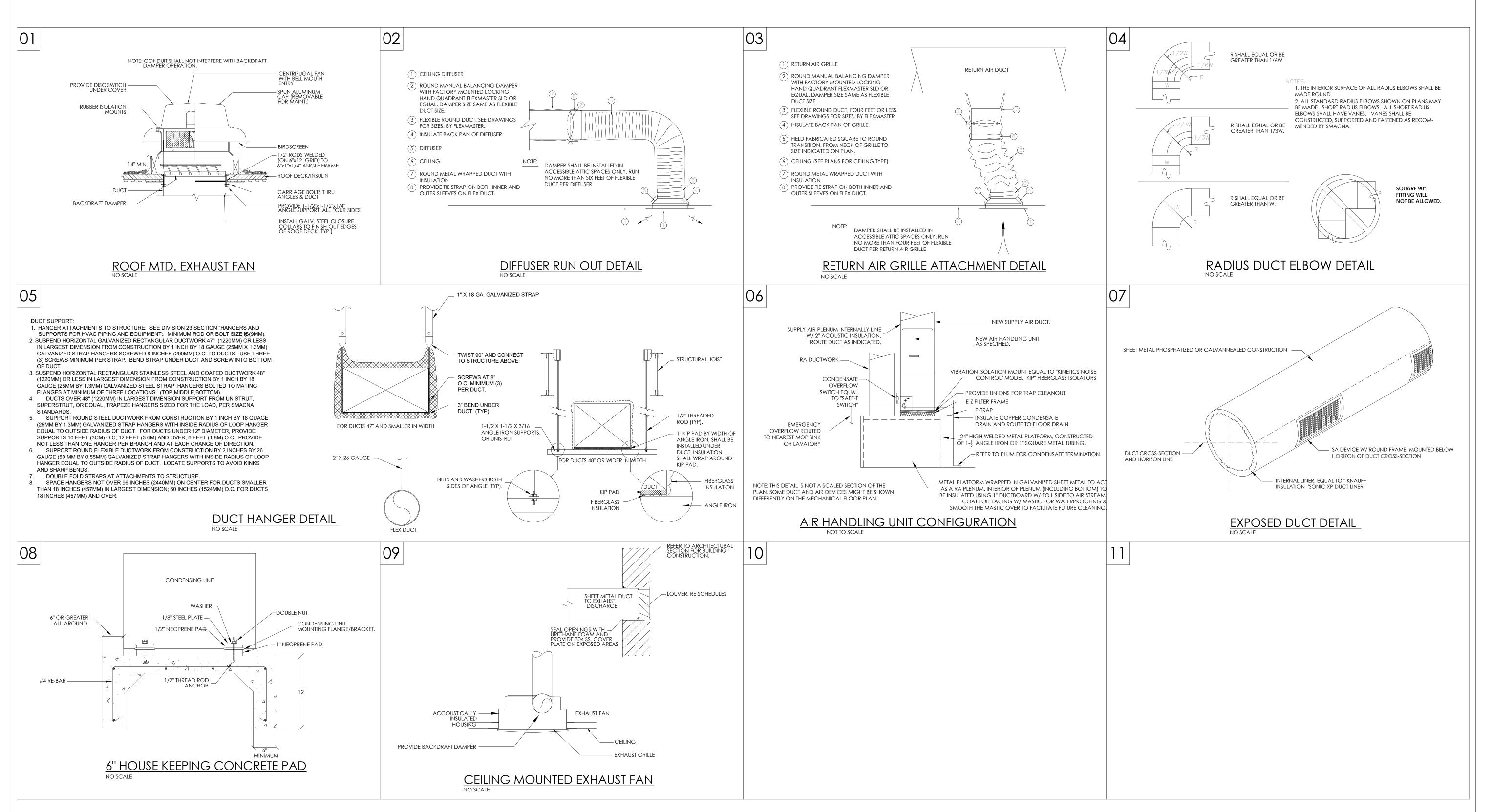
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NEW INDOOR RECREATION CENTER

AT "EL TULE"

EDINBURG ECONOMIC DEVELOPMENT

CORPORATION

CORPORATION

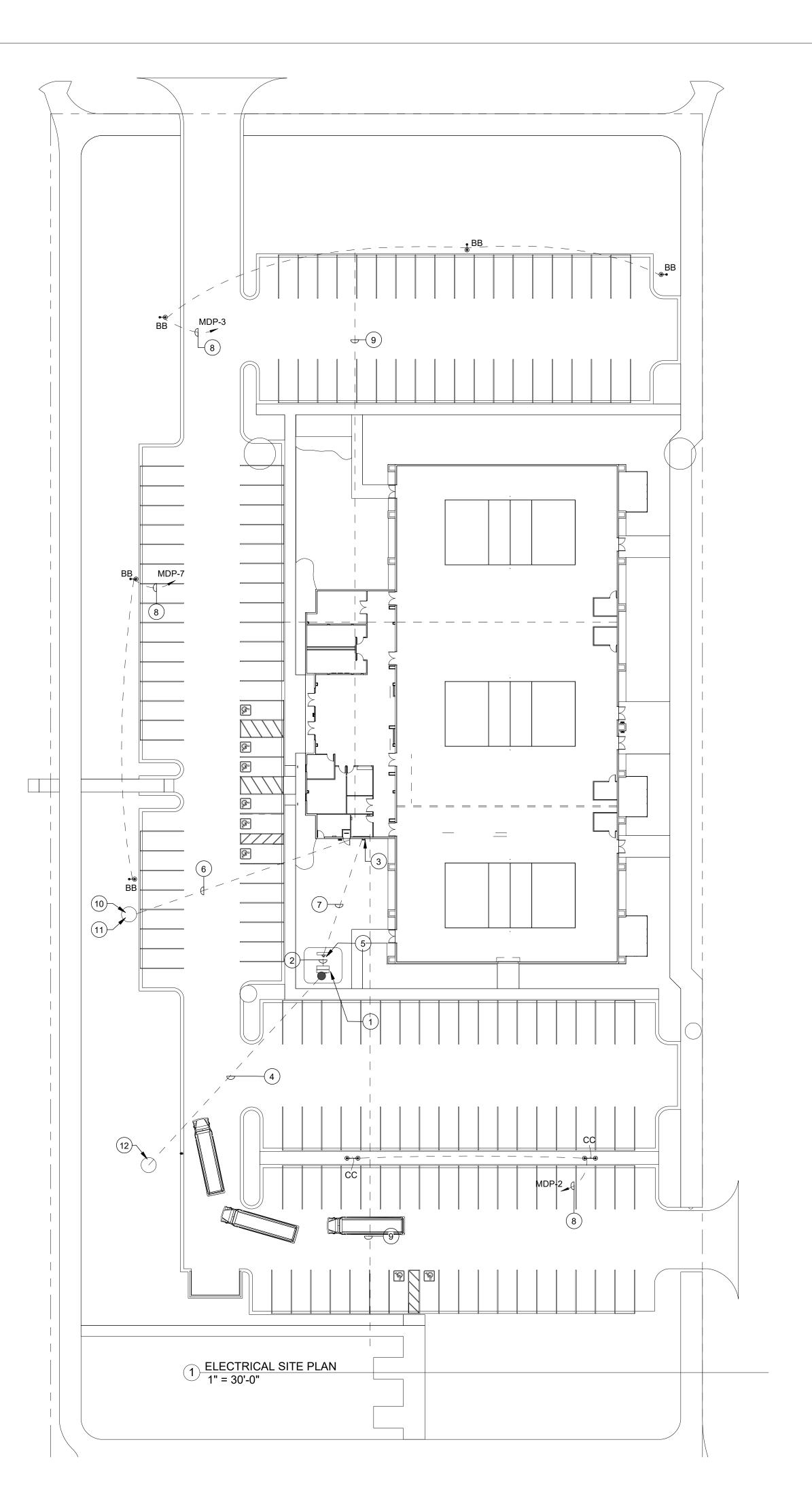
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GENERAL NOTES - ELECTRICAL SITE

- CONTRACTOR TO VERIFY ALL EXISTING MAIN POWER SERVICES AND COORDINATE WITH POWER COMPANY FOR ALL NEW REQUIREMENTS AND ALL COST ASSOCIATED. CONTRACTOR SHALL INCLUDE ANY COST FOR THE NEW TRANSFORMER AND OTHER ASSOCIATED FEES IN BID. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL FEES WITH POWER COMPANY AND TO INCLUDE IN BID. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH POWER COMPANY AS SOON THE CONTRACT IS AWARDED TO ORDER TRANSFORMER AND THE RELATED ELECTRICAL SERVICE EQUIPMENT AS SOON AS POSSIBLE.
- CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, TRENCHING AND BACKFILLING. COORDINATE WITH ALL UTILITIES PRIOR TO EXCAVATION.
- C. CONTRACTOR TO VERIFY ALL EXISTING MAIN TELEPHONE SERVICES AND COORDINATE WITH TELEPHONE COMPANY FOR ALL REQUIREMENTS AND ALL COST ASSOCIATED. INCLUDE ALL COST IN BID. CONDUIT FROM MAIN TELEPHONE RISER SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- D. ALL ELECTRICAL EQUIPMENT OUTDOORS SHALL BE RATED TYPE NEMA 3R UNLESS OTHERWISE NOTED.
- E. CONTRACTOR SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES. ALL WORK SHALL CONFORM TO NATIONAL ELECTRICAL CODES AND ALL OTHER AUTHORITY HAVING JURISDICTION. OBTAIN PERMITS AND PAY ALL FEES. PERFORM MODIFICATIONS TO MEET CODE AND ORDINANCE REQUIREMENTS AT NO ADDITIONAL COST TO OWNER, ARCHITECT OR ENGINEER. VERIFY PRIOR TO BID DATE.
- F. VERIFY AT JOB SITE THE EXACT LOCATIONS OF STRUCTURAL MEMBERS SUCH AS BEAMS, COLUMNS, ETC. TO LOCATE EQUIPMENT CONDUIT, PANELS AND DEVICES. IF DEVIATIONS FROM THE DRAWING ARE NECESSARY TO MEET STRUCTURAL CONDITIONS MAKE DEVIATIONS WITHOUT ADDITIONAL COST, TO OWNER, ARCHITECT, OR ENGINEER.
- G. IN COOPERATION WITH OTHER CONTRACTORS, DETERMINE THE EXACT LOCATION OF EQUIPMENT AND DEVICES AND CONNECTIONS THERETO BY REFERENCE TO THE SUBMITTALS AND ROUGH-IN DRAWINGS, AND BY MEASUREMENTS AT THE SITE. REFER TO ALL OTHER TRADES SUBMITTAL FOR ELECTRICAL INFORMATION.
- H. GROUND ENTIRE ELECTRICAL SYSTEM IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- I. VERIFY AT JOB SITE GENERAL WORK TO BE DONE AS SPECIFIED, AS NOTED, OR AS REQUIRED FOR INSTALLATION ELECTRICAL SYSTEMS PRIOR TO SUBMISSION OF BIDS.
- J. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND EQUIPMENT TO BE REMOVED AND REPLACED BEFORE SUBMITTING HIS BID.
- K. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND SMALL SCALE ONLY. THEY CONVEY THE INTENT OF THE WORK BUT DO NOT SHOW DETAIL SUCH AS JUNCTION AND PULL BOXES REQUIRED BY THE SPECIFICATIONS AND THE NATIONAL ELECTRICAL CODE(NEC). PROVIDE ALL MATERIALS AND METHODS CALLED FOR IN THE SPECIFICATIONS AND AS REQUIRED IN THE NEC TO PROVIDE A COMPLETE INSTALLATION OF ALL WORK.
- ALL WIRING SHALL BE COPPER.
 M. ALL SLEEVES, PENETRATIONS, ETC. SHALL BE SEALED SOLID NON-SHRINKING MATERIAL IMMEDIATELY UPON FILLING OF THE OPENING WITH PIPE OR CONDUIT.
- N. ARRANGE FOR SOURCES OF TEMPORARY CONSTRUCTION SERVICES. SUCH SERVICES SHALL BE NOMINALLY 120/240V, 1-PHASE, 3-WIRE FROM WHICH A COMPLETE SYSTEM OF TEMPORARY POWER AND LIGHTING SHALL BE PROVIDED FOR ALL CONSTRUCTION NEEDS.

ELECTRICAL KEYNOTES

- 1 NEW POWER COMPANY ELECTRICAL PAD MOUNTED TRANSFORMER. COORDINATE EXACT LOCATION AND ALL ELECTRICAL REQUIRMENTS WITH POWER COMPANY PRIOR TO COMMENCING ANY WORK.
- 2 CONTRACTOR TO PROVIDE AND INSTALL PVC CONDUIT FROM NEW UTILITY TRANSFORMER TO NEW ELECTRICAL SERVICE EQUIPMENT. VERIFY ALL REQUIREMENTS PRIOR TO ANY ROUGH-IN. REFER TO ELECTRICAL RISER DIAGRAM.
- 3 NEW SERVICE ELECTRICAL DISCONNECT. REFER TO ELECTRICAL RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- 4 CONTRACTOR TO PROVIDE AND INSTALL (1)-4" PVC CONDUIT FROM PROPOSED NEW UTILITY COMPANY POWER POLE WITH RISER DIP POLE TO NEW PAD MOUNT TRANSFORMER. ALL UNDERGROUND WORK SHALL BE ACCORDING TO POWER COMPANY STANDARDS. VERIFY ALL REQUIREMENTS WITH THE POWER COMPANY BEFORE ANY ROUGH-IN. COORDINATE LOCATION, COST, AND INSTALLATION WITH POWER COMPANY PRIOR TO BID.
- 5 NEW 277/480V, 3-PHASE, 4W, ELECTRICAL SERVICE METER MOUNT ON FREESTANDING 3"GALVANIZED PIPE WITH UNISTRUT STAND.
- 6 CONTRACTOR TO PROVIDE AND INSTALL (3)-4"PVC CONDUIT FOR COMMUNICATION SERVICE EQUIPPED WITH PULLSTRING, AND TURNED UP AND CAPPED AT BOTH ENDS. DEPTH OF CONDUIT SHALL BE A MINIMUM OF 36". VERIFY ALL REQUIREMENTS WITH LOCAL UTILITIES BEFORE ROUGH-IN. ROUTE TO NEAREST TELEPHONE SERVICE LINE OR AS DIRECTED BY LOCAL COMMUNICATION COMPANY. PROVIDE TRENCHING AND BACKFILL AS REQUIRED. COORDINATE EXACT LOCATION AND COST WITH
- 7 CONTRACTOR TO PROVIDE AND INSTALL PVC CONDUIT FROM NEW UTILITY TRANSFORMER TO MAIN SWITCH DISCONNECT PER POWER COMPANY STANDARDS. VERIFY ALL REQUIREMENTS PRIOR TO ANY ROUGH-IN. REFER TO ELECTRICAL RISER
- VERIFY ALL REQUIREMENTS PRIOR TO ANY ROUGH-IN. REFER TO ELECTRICAL RISER DIAGRAM.

 8 SHALL BE CONTROLLED VIA LIGHTING CONTROL PANEL 'LCP1'. REFER TO RISER AND
- SPECIFICATION FOR ADDITIONAL INFORMATION.
 PROVIDE 2-2"C FOR FUTURE. CONDUIT DEPTH SHALL BE 30". PROVIDE PULLSTRING.
- 10 NEW TELEPHONE PEDESTAL. VERIFY ALL REQUIREMENTS PRIOR TO ANY ROUGH-INS.
 11 TIE INTO MAIN TELEPHONE LINE. COORDINATE WITH THE TELEPHONE COMPANY PRIOR TO ANY ROUGH-INS.
- 12 NEW POWER COMPANY POWER POLE WITH RISER DIP POLE.

COMMUNICATION COMPANY PRIOR TO BID.

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NEW INDOOR RECREATION CENTE

AT "EL TULE"

EDINBURG ECONOMIC DEVELOPMENT

CORPORATION

EDINBURG, TX.

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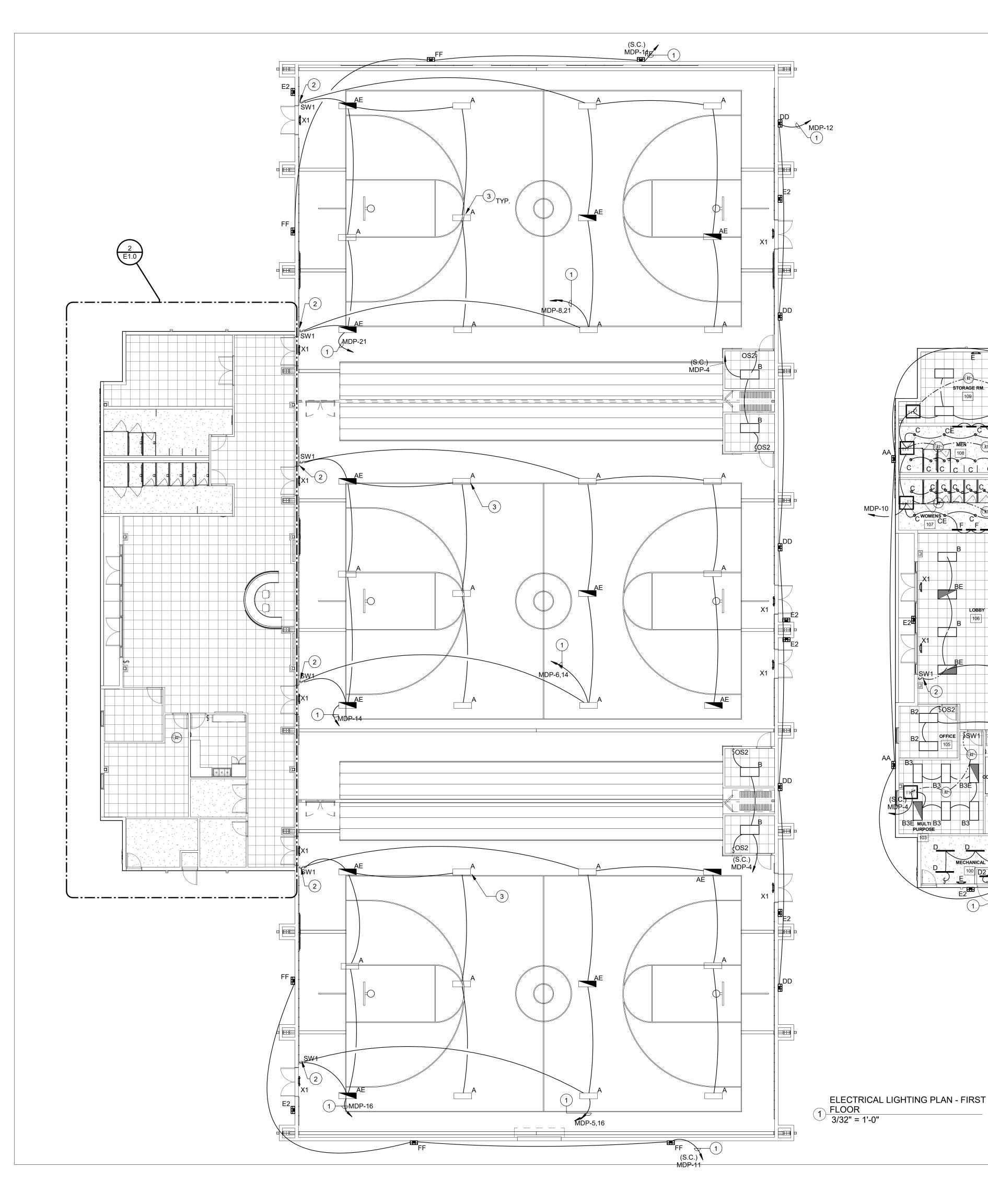
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GENERAL NOTES-LIGHTING

- A. ALL EXIT FIXTURES/EMERGENCY BATTERY PACK LIGHT FIXTURE SHALL BE CONNECTED TO UNSWITCHED OR NON-DIMMING HOT LEG OF SAME VOLTAGE/PHASE OF LOCAL LIGHTING CIRCUIT IN SPACE.

 A.ALL EXIT FIXTURES/EMERGENCY BATTERY PACK LIGHT FIXTURE SHALL BE CONNECTED TO UNSWITCHED OR NON-DIMMING HOT LEG OF SAME VOLTAGE/PHASE OF LOCAL LIGHTING CIRCUIT IN
- B. VERIFY CEILING TYPES AND COORDINATE WITH FIXTURE TYPE LIGHT FIXTURE SHALL BE COMPATIBLE WITH CEILING TYPE AS INDICATED ON THE ARCHITECTURAL DOCUMENTS. NOTIFY ENGINEER IF DISCREPANCIES EXIST PRIOR TO ORDERING FIXTURES.
- C. COORDINATE EXACT ROUTING OF ALL CONDUIT ABOVE CEILING IN BUILDING. TYPICAL FOR ALL BUILDING EXTERIOR LIGHTING.
- D. COORDINATE LOCATION OF LIGHTS WITH DIFFUSERS AND GRILLES.
- E. SWITCH LEGS ARE NOT SHOWN WHERE SWITCHING SCHEME IS OBVIOUS.
- F. ALL EXIT FIXTURES TYPE-"X1 & X2", EMERGENCY LIGHT FIXTURE TYPE-"E" AND ALL EMERGENCY BALLAST SHALL BE ON CIRCUIT "MDP-35". FIXTURE TYPE LABEL WITH AN "_E" ARE LIGHT FIXTURES WITH EMERGENCY BALLAST. REFER TO LIGHT FIXTURE SCHEDULE.

	ELECTRICAL KEYNOTES					
1	SHALL BE CONTROLLED VIA LIGHTING CONTROL PANEL 'LCP1'. REFER TO RISER AND SPECIFICATION FOR ADDITIONAL INFORMATION.					
2	LOW VOLTAGE SWITCH TO CONTROL LIGHTING CIRCUIT VIA RELAY PANEL. PROCIDE 3/4"C WITH CONTROL WIRING TO RELAY PANEL.					
3	PROVIDE ADDITIONAL STRUCTURAL SUPPORT FOR NEW LIGHT.					

LIGHTING CONTROL SENSORS LEGEND

SYMBOL	ACUITY MODEL NUMBER	CONDUIT	COMMENTS
OS1	NCM-PDT-10	3/4"C	PROVIDE POWER PACK POSITIONED AS DIRECTED BY MANUFACTURER. REFER TO PLANS FOR TYPE OF POWER PACK. REFER TO PLANS AND SCHEDULES FOR SWITCHING TYPES.
_{\$} OS2	WSX-PDT-SA	3/4"C	
NP	nPP16	3/4"C	POWER PACK, 120,240,277, VAC, 16AMPS/POLE, PLENUM RATED, RELAY CONTACT PROTECTION, RJ-45 PORT
SW1	nPODMWH	3/4"C	WALL MOUNT SWITCH WITH ON/OFF WITH STAINLESS STEEL PLATE

A. CONTRACTOR SHALL REFER TO MANUFACTURERS INSTRUCTIONS AND WIRING DIAGRAMS PRIOR TO BID B. CONTRACTOR SHALL INCLUDE ALL COST IN BID FOR AN OPERABLE LIGHTING SYSTEM.

NOTES:

1. All sensor locations are approximate, refer to manufacturers installation instructions prior to installation. 2. Ultrasonic ceiling mount sensors should be located a minimum of six feet from HVAC supply/return vents.

3. Contractor is responsible for: proper sensitivity & time delay settings (for non-adaptive products) recommended placement, and field verification of circuits with in respect to power placement.

4. Contractor is responsible for field verification of required number of power packs: One power pack is required for each circuit to be controlled.

One power pack is required for every three sensors in the zone.

 $\cdot\,$ If multiple circuits are to be controlled by a sensor, an auxiliary relay can be used in conjunction with the power pack.

The maximum number of sensors that can be put on a power pack is to be reduced by one for each slave pack used.

5. Sensors mounted over the door must be placed one foot inside the threshold.

6. Contractor is responsible for ensuring that the sensor bill of materials complies with the sensor design and layout

7. Contractor is responsible for installing equipment in compliance with local code. 8. Refer to manufacturers wiring diagrams.

3 LIGHTING SENSOR LEGEND 1/8" = 1'-0"

ELECTRICAL LIGHTING PLAN - FIRST 2 FLOOR ENLARGEMENT 3/32" = 1'-0"

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> Project number: 19.4.24

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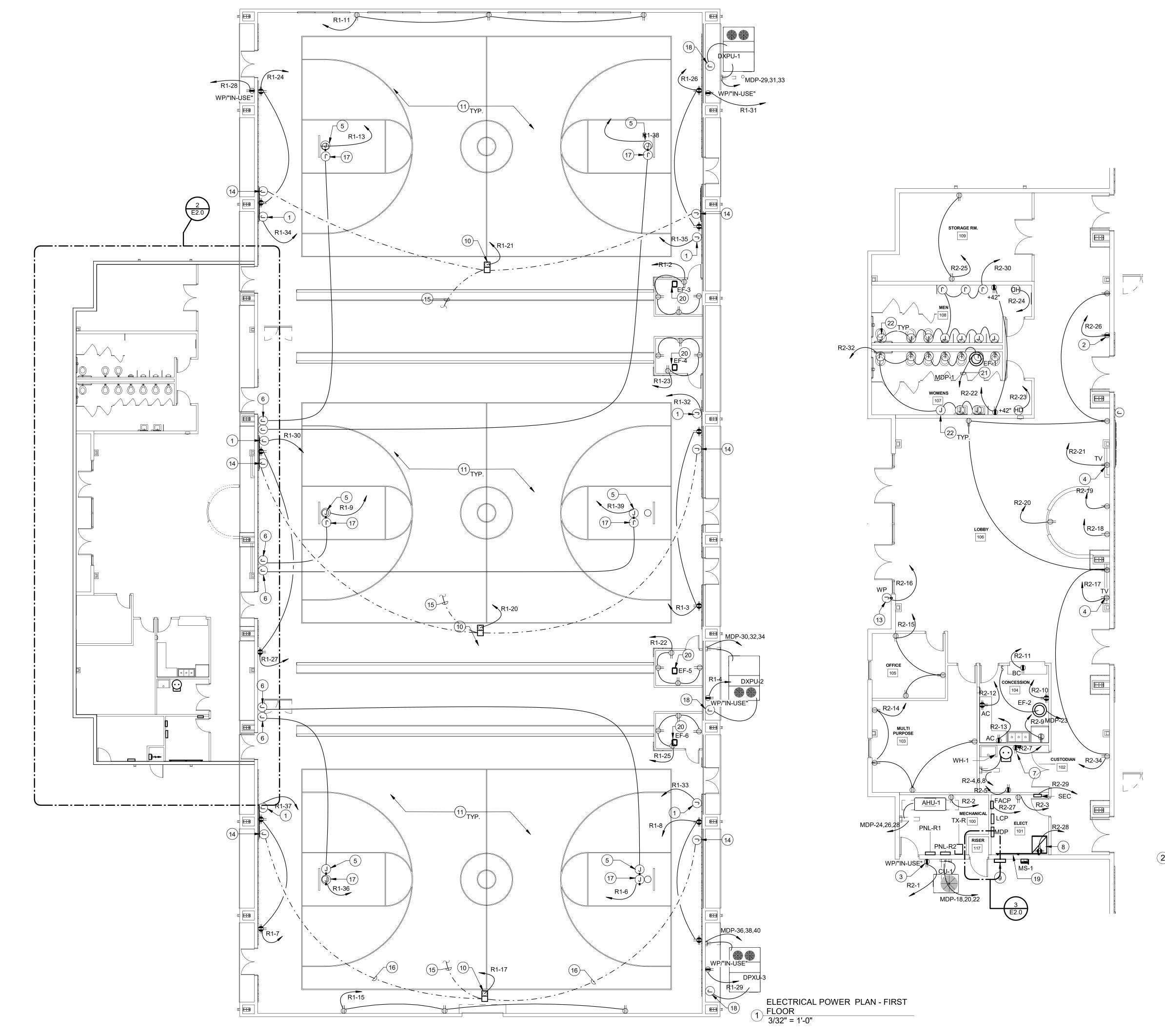
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PROJECT NUMBER 219014

> DATE APRIL 23, 2021

ISSUED FOR BIDS

SHEET NUMBER



GENERAL NOTES- POWER

- A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL POWER
- SOURCE WIRING IN ACCORDANCE WITH ARCHITECTURAL MILLWORK.

 B. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTION TO H.V.A.C EQUIPMENT, PLUMBING EQUIPMENT, REFER TO PANEL SCHEDULE FOR
- C. ELECTRICAL CONTRACTOR SHALL PROVIDE STARTERS, RELAYS, CONTACTORS AND THE REQUIRED ELECTRICAL ACCESSORIES FOR MECHANICAL SYSTEM AS REQUIRED.
- D. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT IN ACCORDANCE W/MECHANICAL DRAWINGS TO MEET ELECTRICAL AND MECHANICAL REQUIRED CLEARANCE BY THE LATEST CODE.
- E. COORDINATE EXACT LOCATION OF ISOLATED OUTLETS FOR COMPUTERS WITH OWNER.
- F. ELECTRICAL CONTRACTOR SHALL PROVIDE J-BOX AND CONDUIT FOR H.V.A.C. CONTROLS AND THERMOSTATS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- G. NEMA RATED OUTLETS, REFER TO BREAKER SIZE AND COORDINATE WITH EQUIPMENT REQUIREMENTS PRIOR TO BID.

ELECTRICAL KEYNOTES

- PROVIDE J-BOX FOR FUTURE SCOREBOARD. FIELD VERYFY EXACT LOCATION AND HEIGHT WITH OWNER/ARCHITECT.
- 2 COORDINATE EXACT LOCATION WITH PLUMBER TO CONCEAL CORD
- BEHIND ELECTRIC DRINKING FOUNTAIN PRIOR TO ANY ROUGH-IN.

 3 PROVIDE DUPLEX RECEPTACLE INSTALLED IN A "IN-USE" WEATHER
- PROOF STEEL ENCLOSURE WITH KEY LOCKABLE COVER.
- 4 PROVIDE POWER AND DATA FOR TV MONITOR. COORDINATE EXACT HEIGHT WITH OWNER PRIOR TO ANY WORK.
- 5 J-BOX FOR RETRACTABLE BOARD CONTROLS. FIELD COORDINATE PRIOR TO ANY WORK.
- 6 PROVIDE J-BOX @ 42" AFF FOR RETRACTABLE BOARD CONTROLS J-BOX AND 1"C WITH PULLSTRING SHALL BE CONCEALED TO ROUTE RETRACTABLE MOTER FIELD COORDINATE PRIOR TO ANY WORK. FIELD COORDINATE PRIOR TO ANY WORK.
- 7 RECEPTACLE FOR RECIRCULATING PUMP. COORDINATE EXACT LOCATION.
- 8 DATA NETWORK WALL MOUNTED RACK. PROVIDE GROUNDING BAR, REFER TO DETAIL.
- 9 TELEPHONE DISTRIBUTION BOARD PANEL.
- 10 PROVIDE 4-GANG FLOOR MOUNTED BOX, 2-DUPLEX RECEPTACLE(INCLUDE RECEPTACLE WITH COVER PLATE)/2-GANG FOR
- DATA FLUSH MOUNTED UNO FLOOR BOX. COORDINTATE EXACT LOCATION WITH ARCHITECT PRIOR TO ANY WORK.

 11 ALL SPECIAL SYSTEM CONDUITS SHALL BE STUB OUT OF WALL @20'. ALL
- SPECIAL SYSTEM CABLING WHALL BE PLENUM RATED AND SUPPORTED THROUGH J-HOOKS.

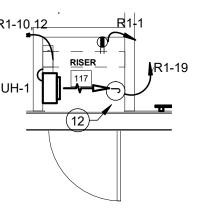
 12 J-BOX FOR FIRE SPRINKLER SYSTEM.COORDINATE EXACT LOCATION AND
- ALL ELECTRICAL REQUIREMENTS WITH FIRE SPRINKLER CONTRACTOR PRIOR TO COMMENCING ANY WORK.

 13 LBOX FOR ALITOMATIC DOOR OPENER, COORDINATE EXACT LOCATION
- 13 J-BOX FOR AUTOMATIC DOOR OPENER. COORDINATE EXACT LOCATION PRIOR TO ANY WORK.
- 14 PROVIDE FLUSH MOUNT J-BOX FOR SCOREBOARD CONTROLS.
 15 PROVIDE 1.5"C WITH PULLSTRING TO ELECTRICAL ROOM AND STUB UP TO
- THE DATA NETWORK RACK LOCATION.

 16 PROVIDE 1.5"C WITH PULLSTRING TO SCOREBOARD LOCATION.
- 17 PROVIDE J-BOX FOR RETRACTABLE BASKETBALL BOARD CIRCUIT. REFER TO ARCHITECTURAL DRAWINGS FOR EQUIPMENT LOCATION.
 COORDINATE EXACT ELECTRICAL REQUIRMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ANY WORK.
- 18 NEW 2" J-BOX FOR UNIT FIRE ALARM AND HVAC CONTROL WIRING. FROM J-BOX TO THERMOSTAT AND FIRE ALARM PANEL PROVIDE 2-1"C, REFER TO MECHANICAL DRAWINGS FOR THERMOSTAT LOCATION.
- 19 3/4"X8'HX4'W PLYWOOD TELEPHONE BOARD FINISHED ONE SIDE.
 PROVIDE GROUND BAR AND TIE INTO ELECTRICAL GROUNDING SYSTEM
- VIA WIRE #4.

 20 TIE INTO ROOMS LIGHTING CIRCUIT AND INTERLOCK FAN WITH ROOMS
- LIGHTS. WIRING SHALL BE 2#12, 1#12G, 1/2"C.

 21 INTERLOCK FAN WITH ROOMS LIGHTS. WIRING SHALL BE 2#12, 1#12G, 1/2"C.
- 22 PROVIDE J-BOX FOR PLUMBING SENSOR. COORDINATE EXACT LOCATION PRIOR TO ANY ROUGH IN.



ELECTRICAL POWER PLAN - RISER

ROOM ENLARGEMENT

1/4" = 1'-0"

ELECTRICAL POWER PLAN - FIRST

FLOOR ENLARGEMENT

1/8" = 1'-0"

APRIL 23, 2021

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NEW INDOOR RECREATION CENTER

AT "EL TULE"

EDINBURG ECONOMIC DEVELOPMENT

CORPORATION

EDINBURG, TX.

SHEET NUMBER

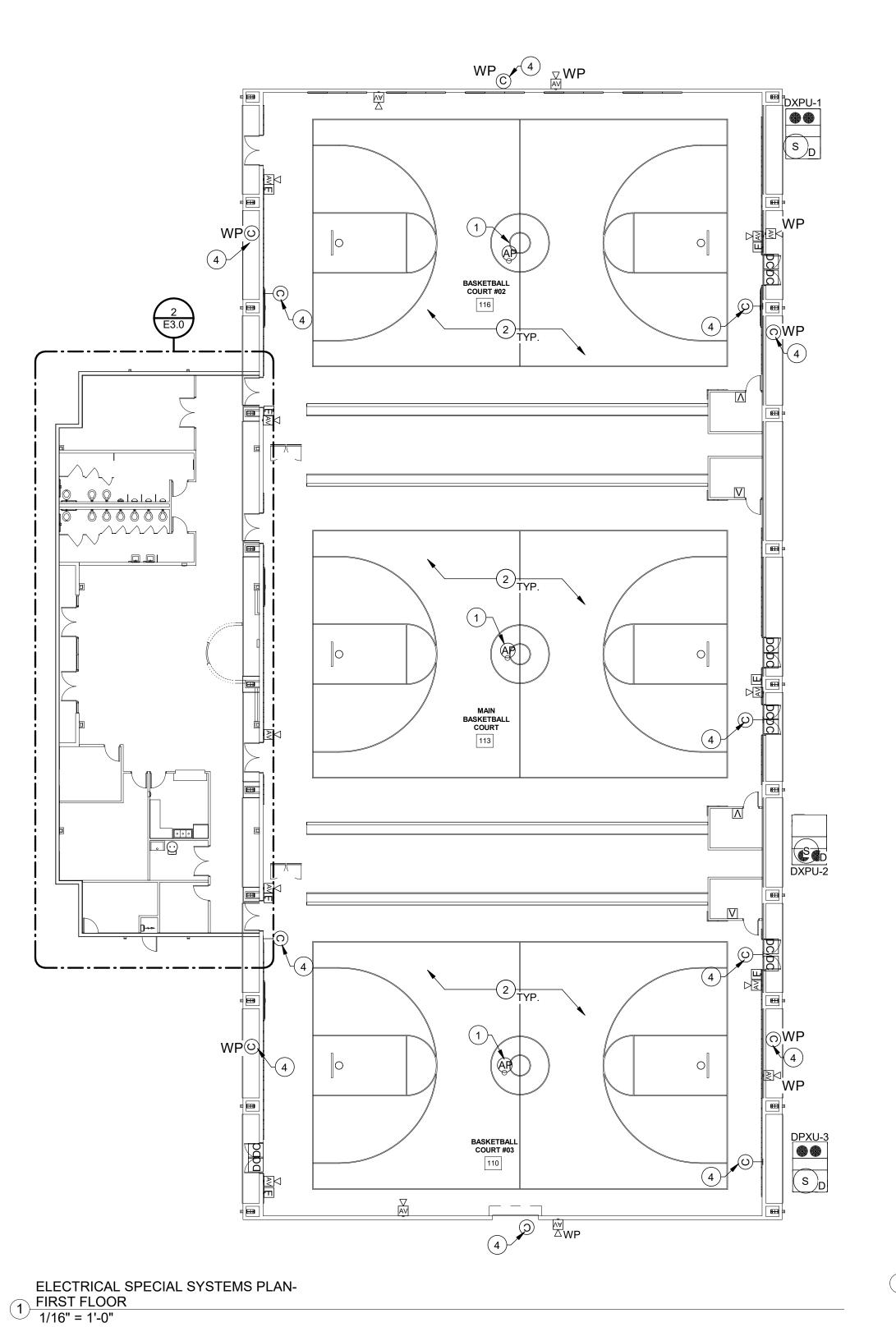
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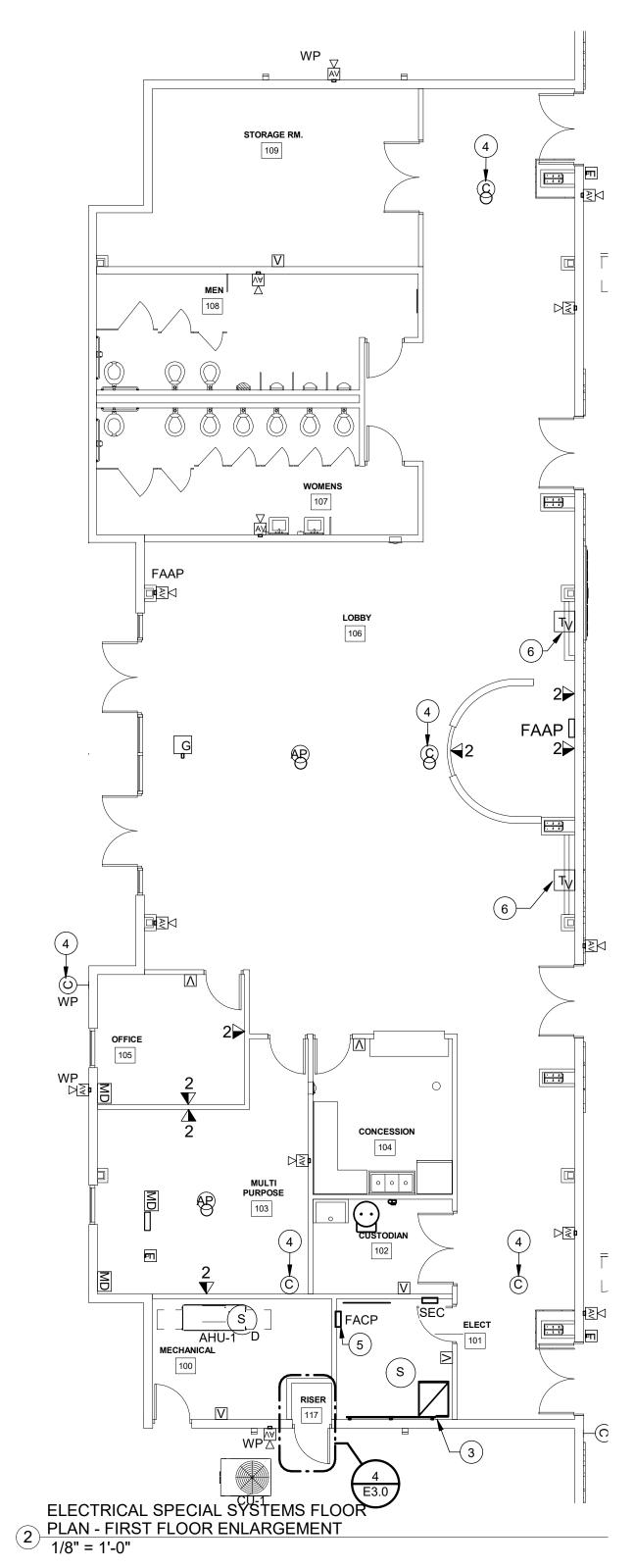
DATE

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E2.0





GENERAL NOTES - SPECIAL SYSTEMS

- A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL SPECIAL SYSTEMS IN ACCORDANCE WITH ARCHITECTURAL MILLWORK.
- B. PROVIDE CLEAR VANDAL COVER WITH STOPPER II OPTION FOR ALL FIRE ALARM PULL STATIONS.
- C. PROVIDE J HOOKS FOR ALL SPECIAL SYSTEMS. IF CABLE TRAY IS PRESENT, STUB UP CONDUITS TO CABLE TRAY.
- D. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT IN ACCORDANCE MECHANICAL DRAWINGS.
- E. ALL CONDITS SHALL REAMED AND COMPLETE WITH CONNECTORS AND INSULATED BUSHINGS AT BOTH ENDS.
- F. ALL DEVICES SHOWN ON DRAWINGS ARE SYMBOLIC ONLY. THE ENTIRE FIRE ALARM SYSTEM, SHALL BE IN FULL COMPLIANCE AND MEET ALL CODES AND EQUIREMENTS OF THE LOCAL ADMINISTRATIVE AUTHORITY. ANY
- ADDITIONAL COST TO THE OWNER OR ARCHITECT/ ENGINEER.

 G. FIRE ALARM LICENSE HOLDER SHALL ASSUME ALL RESPONSIBILITY FOR DESIGN AND SUBMIT DRAWGINGS TO JURISDICTION HAVING AUTHORITY AND ABIDE BY ALL OTHER REQUIREMENTS PER NFPA.

MODIFICATIONS REQUIRED TO PROVIDE COMPLIANCE SHALL BE MADE AT NO

	ELECTRICAL KEYNOTES						
1	PROVIDE J-BOX AND ACCESS POINT IN EXPOSED CEILING STRUCTURAL. PROVIDE ALL REQUIRED MOUNTING ACCESSORIES.						
2	ALL SPECIAL SYSTEM CONDUITS SHALL BE STUB OUT OF WALL @20'. ALL SPECIAL SYSTEM CABLING WHALL BE PLENUM RATED AND SUPPORTED THROUGH J-HOOKS.						
3	DATA NETWORK WALL MOUNTED RACK. PROVIDE GROUNDING BAR, REFER TO DETAIL.						
4	COORDINATE CAMERA J-BOX MOUNTING HEIGHT WITH OWNER PRIOR TO ANY WORK.						
5	PROVIDE 2-PHONE/VOICE LINES. COORDINATE WITH OWNER PRIOR TO ANY WORK.						
6	TO BE MOUNTED @7'-0" AFF. COORDINATE EXACT MOUNTING HEIGHT WITH						

DATA/COMMUNICATION WIRING QUANTITIES LEGEND

OWNER PRIOR TO ANY WORK.

 \mathbb{V} #X = NUMBER OF CAT-6 CABLE DROPS, CAT-6 CABLE COLOR SHALL BE BLUE

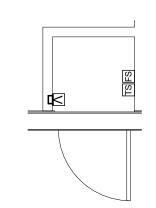
#X = NUMBER OF CAT-6 CABLE DROPS, CAT-6 CABLE COLOR SHALL BE BLUE

CAI-6 CABLE COLOR SHALL BE BLUE

- = WALL MOUNT IP CAMERA WITH J-BOX AND 1"C STUB OUT. MOUNT BOX @ 12'-0" PROVIDE CAT-6 YELLOW COLOR CABLE TO DATA NETWORK RACK.

 = CEILING MOUNT CAMERA W J-BOX AND 1" C, STUB OUT. MOUNT BOX @ 12'-0" PROVIDE CAT-6 YELLOW COLOR CABLE TO DATA NETWORK RACK.
- AP = J-BOX FOR ACCES POINT, WITH 1"C STUB OUT.
 ACCESS POINT BY OWNER PROVIDE CAT -6 CABLE TO
 DATA NETWORK RACK. CAT-6 CABLE SHALL BE
 SHEILDED TYPE AND GREEN COLOR.
- =EXTERIOR WALL MOUNT IP CAMERA WITH J-BOX AND 1"C STUB OUT. MOUNT @ 14' AFG. PROVIDE CAT-6, YELLOW COLOR CABLE TO DATA NETWORK RACK.

NOTE: REFER TO SPECIFICATION 17300 FOR CAT-6 SPECS.



ELECTRICAL SPECIAL SYSTEMS PLAN RISER ROOM ENLARGEMENT
1/4" = 1'-0"

APRIL 23, 2021

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NEW INDOOR RECREATION CENTION

AT "EL TULE"

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ISSUED FOR BIDS

PROJECT NUMBER

DATE APRIL 23, 2021

219014

SHEET NUMBER

E3.0

ELECTRICAL LEGEND-SPECIAL SYTEMS ELECTRICAL LEGEND-FIRE ALARM

---ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

<u>SYMBOL</u>	<u>DESCRIPTION</u>	
\mathbb{V}	WALL MOUNTED TELEPHONE/DATA OUTLET. FURNISH AND 1.25"C., WITH PULLSTRING AND INSULATED BUSHING, STUB +24" UNLESS OTHERWISE NOTE. BOX TO BE MINIMUM 2 1/4	BED ABOVE CEILING.
abla	WALL MOUNTED TELEPHONE OUTLET. FURNISH AND INSTA , WITH PULLSTRING AND INSULATED BUSHING, STUBBED AB +24" UNLESS OTHERWISE NOTE. BOX TO BE MINIMUM 2 1/4	OVE CEILING.
∇	WALL MOUNTED DATA OUTLET. FURNISH AND INSTALL 1.25, WITH PULLSTRING AND INSULATED BUSHING, STUBBED AB +24" UNLESS OTHERWISE NOTE. BOX TO BE MINIMUM 2 1/3	OVE CEILING.
P	PUBLIC TELEPHONE OUTLET.: J-BOX & 1"C	
TV HTV	TELEVISION OUTLET. CLG. OR WALL MOUNTED - STUB 1" C ABOVE CEILING FROM OUTLET BOX	:.
⊢ ∘	PUSHBUTTON WALL MOUNTED.	
av	AUDIO VIDEO BOX AND CONDUIT, REFER TO DETAIL	
	INTERCOM - CALL SWITCH- JBOX WITH 3/4"C	+48"
\$	INTERCOM/PAGING, SURFACE MOUNT SPEAKER - JBOX WITH 3/4"C W/(1) CATEGORY 6A NETWORK CABLE FROM LOCATION TO NEAREST RESPECTIVE IDF/MDF ROOM. CABLE SHALL BE PLENUM RATED. REFER TO SPECIFICATIONS.	12'-0" AFF
	PA EXTERIOR SPEAKER - JBOX WITH 3/4"C W/(1) CATEGORY 6A NETWORK CABLE FROM LOCATION TO NEAREST RESPECTIVE IDF/MDF ROOM. CABLE SHALL BE PLENUM RATED. REFER TO SPECIFICATIONS.	REFER TO ELEVATIONS
DC	SECURITY DOOR CONTACT SENSOR - STUB 1/2"C ABOVE CEILING FROM OUTLET BOX	
PS	ACCESS CONTROL SYSTEM DOOR CONTACT	
MD	SECURITY MOTION DETECTOR SENSOR - STUB 1/2"C ABOVE CEILING FROM OUTLET BOX	
G	SECURITY GLASS BREAK SENSOR - STUB 1/2"C ABOVE CEILING FROM OUTLET BOX	
KP	SECURITY KEY PAD - STUB 3/4"C ABOVE CEILING FROM OUTLET BOX	+48"
SEC	SECURITY PANEL JUNCTION BOX	54"
ACC	ACCESS CONTROL PANEL JUNCTION BOX - BY OTHERS	54"
CR	CARD READER BOX - STUB 3/4"C ABOVE CEILING LEVEL FROM OUTLET BOX SYSTEM BY OTHERS	+48"

GENERAL ELECTRICAL NOTES

1. ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS LEGEND MAY NOT APPEAR ON THIS SET OF DRAWINGS.

INTRUSION EXTERIOR SPEAKER - JBOX WITH 3/4"C

- 2. USE DIRECTIONAL ARROW ON EXIT SIGNS AS REQUIRED.
- 3 IEEE STANDARD C37.2-1991, ELECTRICAL POWER SYSTEM DEVICE FUNCTION
- CONTRACTOR SHALL NOT INSTALL MORE THAN THREE CURRENT CARRYING CONDUCTORS IN A COMMON RACEWAY. IF CONTRACTOR IS PLANNING ON GROUPING MULTIPLE CIRCUITS IN A SINGLE RACEWAY, THE CONTROATOR MUST SUBMIT ALL DERATING CALCULATIONS FOR THE PROPOSED INSTALLATION IN ACCORDANCE WITH NEC ARTICLE 310.15 (B) (2) FOR APPROVAL PRIOR TO INSTALLATION. NON APPROVED INSTALLATIONS WILL BE REMOVED AND REINSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE NEC AT NO ADDITIONAL COST TO THE OWNER.
- THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF THREE 90° BENDS 5. (270 DEGREES TOTAL) BETWEEN PULL POINTS. WHERE THERE ARE MORE THAN THREE QUARTER BENDS, CONTRACTOR SHALL PROVIDE PULL BOXES AS SPECIFIED AND SIZED IN ACCORDANCE WITH NEC.
- COMPLY WITH NEC REQUIREMENTS FOR ELECTRICAL INSTALLATIONS. ALL 6. ELECTRICAL EQUIPMENT AND MATERIAL TO BE APPROVED, LISTED, LABELED, IDENTIFIED AND INSTALLED PER RECOGNIZED ELECTRICAL TESTING LABORATORY.
- ALL RECEPTACLES, SWITCHES AND JUNCTION BOXES SERVED BY EMERGENCY BRANCH CIRCUITS SHALL BE "RED" IN COLOR. COVERPLATES SHALL BE LABELED IN ACCORDANCE WITH SPECIFICATIONS TO INDICATE PANELBOARD AND CIRCUIT NO. (IE: ET*LA-3).

---ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS.

<u>SYMBOL</u>	<u>DESCRIPTION</u>
 F	FIRE ALARM PULL STATION: STUB 3/4"C ABOVE CEILING FROM J-BOX
AV	FIRE ALARM AUDIBLE/VISUAL SIGNAL: STUB 3/4"C ABOVE CEILING FROM J-BOX
V	FIRE ALARM VISUAL SIGNAL: STUB 3/4"C ABOVE CEILING FROM J-BOX
\vee_{s}	FIRE ALARM CEILING MOUNT SPEAKER STROBE, UL LISTED, : J-BOX WITH 3/4"C
VS	FIRE ALARM CEILING WALL MOUNT OUTDOOR SPEAKER STROBE, UL LISTED, : J-BOX WITH $3/4^{\circ}\text{C}$
(2)	FIRE ALARM SMOKE DETECTOR CEILING OR WALL MOUNTED: STUB 3/4"C ABOVE CEILING FROM J-BOX
Н	HEAT DETECTOR CEILING OR WALL MOUNTED: STUB 3/4"C ABOVE CEILING FROM J-BOX
\bigcirc D	DUCT SMOKE DETECTOR: STUB 3/4"C ABOVE CEILING FROM J-BOX
SD A	SMOKE DETECTOR WITH AN AUDIBLE BASE: STUB 3/4"C ABOVE CEILING FROM J-BOX
FACP	FIRE ALARM CONTROL PANEL, ADDRESSABLE, SURFACE MTD UNO, INCLUDE A FIRE DOCUMENT BOX EQUAL TO MFR. SPACE AGE ELECTRONICS #FDB-ACE-11.
EVES	FIRE ALARM EMERGENCY VOICE EVACUATION SYSTEM, FLUSH OR SURFACE.
FAAP	FIRE ALARM REMOTE ANNUNCIATOR PANEL, FLUSH MOUNTED UNO
PAD-X	POWER SUPPLY, DEDICATED 110V
DH	DOOR HOLDER DEVICE: STUB 3/4"C ABOVE CEILING FROM J-BOX
TS	TAMPER SWITCH: STUB 3/4"C ABOVE CEILING FROM J-BOX
FS F	FLOW SWITCH: STUB 3/4"C ABOVE CEILING FROM J-BOX FIRE ALARM OUTDOOR SPEAKER, WEATHER PROOF: STUB 3/4"C ABOVE CEILING FROM J-BOX

ELECTRICAL LEGEND-GENERAL

DESCRIPTION

HEAVY DUTY DISCONNECT SWITCH FUSED

HEAVY DUTY MOTOR STARTER

ROTARY TYPE DISCONNECT SWITCH

PER EQUIPMENT CIRCUIT REQUIREMENTS.

UNDERGROUND ELECTRICAL CONDUIT

COMMUNICATION CONDUIT AND WIRING

MULTI-POLE DEVICE CIRCUIT NUMBERS

THREE SINGLE POLE DEVICE CIRCUIT NUMBERS

CONDUIT AND WIRE HOMERUN TO PANEL. SHORT HATCH

INDICATES NEUTRAL CONDUCTOR, LONG HATCHES INDICATE PHASE

CONDUCTORS, AND LONG HATCH WITH CIRCLE INDICATES ISOLATES

OR INSULATED GROUND. ALPHANUMERIC DESCRIPTION INDICATES

UNDERGROUND CONDUIT AND WIRE HOMERUN TO PANEL. SHORT

PHASE CONDUCTORS, AND LONG HATCH WITH CIRCLE INDICATES

ISOLATED OR INSULATED GROUND. ALPHANUMERIC DESCRIPTION

THERMOSTAT WALL MOUNTED - STUB 1/2"C ABOVE CEILING FROM

OUTLET BOX. COORDINATE EXACT LOCATION AND HEIGHT WITH

JUNCTION BOX - SIZE & MOUNTING AS REQUIRED

LIGHTING CONTACTOR, NEMA-1, W/H.O.A. SWITCH

RACEWAY. SURFACE MOUNT RACEWAY SHALL BE WIREMOLD #V700

SERIES. PROVIDE ALL RELATED #V700 SERIES ACCESSORIES FOR AN

PHOTO CELL(MFR.INTERMATIC #K4136M)

ELECTRICAL DEVICE AS SHOWN ON PLANS SURFACE MOUNT

TIME CLOCK (MFR.TORK#7202Z)

HATCH INDICATES NEUTRAL CONDUCTOR, LONG HATCHES INDICATE

PANELBOARD, CLEARANCE AS PER LATEST NEC

HEAVY DUTY DISCONNECT SWITCH NONFUSED

ENCLOSED BREAKER, RE: TO SCH. FOR MORE INFO.

HEAVY DUTY COMBINATION DISCONNECT/MOTOR STARTER

120/277-208/480V,20AMP, MOTOR RATED SWITCH, NEMA-1 (INTERIOR)

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SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SWITCH LEG

ELECTRICAL CONDUIT

PANEL AND BREAKER.

MINIMUM OF 4" SQUARE

CIRCULATING PUMP

DETAIL NUMBER

CP-1

SHEET NUMBER

INDICATES PANEL AND BREAKER.

<u>SYMBOL</u>

M

/0/

X, X, X

X/X/X

____ C ____

REFER TO ELEVATIONS

1.) 48" AFF INDICATES TO TOP OF DEVICE; 15" AFF INDICATES TO BOTTOM OF DEVICE; AC INDICATES 6" ABOVE COUNTER TO BOTTOM OF DEVICE.

ELECTRICAL LEGEND -WIRING DEVICES

ELECTRICAL ABBREVIATIONS:

ABOVE FINISHED FLOOR

CONDUIT

EXISTING

FUSE

CIRCUIT BREAKER

EMPTY CONDUIT

CB

EX

MTD

MTD.

FDR.

CKT.

LTG.

IG

EA.

N4X

BELOW FINISHED CEILING

GROUND (EQUIPMENT)

MOUNT OR MOUNTED

NOT IN CONTRACT

ABOVE COUNTER

LIGHTING CONTACTOR

ISOLATED GROUND

NONFUSED

HEAVY DUTY

NIGHT LIGHT

MOUNTING

HEIGHT

FFFDFR

CIRCUIT

EACH

N3R NFMA-3R

NEMA-1

NEMA-4X

SS STAINLESS STEEL

LIGHTING

GROUND FAULT INTERRUPTER ST (S.T.)

<u>DESCRIPTION</u>

MFR.

(S.C.)

QRCPT(S)

CRCPT(S)

SO (S.O.) SPACE ONLY

SPARE

SHUNT TRIF

WIRE GUARD

RIGID METAL CONDUIT

ELECTRICAL METALLIC

AHUTHORITY HAVING

TUBING CONDUIT

SOLID NEUTRAL

JURISDICTION

ABOVE COUNTER

RIGID NONMETALLIC CONDUIT

SWITCH

--ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE. SINGLE RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R DUPLEX RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R DUPLEX RECEPTACLE TAMPER RESISTANT 20A/125V/2P/3W/G NEMA 5-20R HOSPITAL GRADE DUPLEX RECEPTACLE/GFI - 20A/125V/2P/3W/G DUPLEX RCPT. GFI - 20A/125V/2P/3W/G NEMA 5-20R DUPLEX RCPT., WEATHER RESISTANT "WR", GFI INSTALLED IN A "IN-USE" WEATHER PROOF STEEL ENCLOSURE- 20A/125V/2P/3W/G NEMA 5-20R WP/"IN-USE" SHALL BE EQUAL TO MFR. CARLON, ENCLOSURE, NEMA-3R(EXTERIOR) ENCLOSURE. VOLTAGE TO BE SELECTED DOUBLE GANG, VERTICAL MOUNT #MF9112VMG QUADRAPLEX RECEPTACLE

METALLIC SERIES SINGLE GANG, VERTICAL MOUNT #ME9UVMG ISOLATED GROUND QUADPLEX RECEPTACLE ISOLATED GROUND DUPLEX RECEPTACLE - 20A/125V NEMA 5-20R

208V RECEPTACLE, VERIFY NEMA NO. WITH EQUIPMENT SUPPLIER SPECIAL PURPOSE RECEPTACLE (NEMA NO. AS INDICATED)

J-BOX - AIR HAND DRYER: (RECESSED HAND DRYERS TO BE PROVIDED BY DIVISION 16, ELECTRICAL)#B-750 AUTOMATIC HANDCRAFT AS MANUFACTURER BY BOBRICK. (COLOR WHITE) QUANTITY: REFER TO DRAWINGS (MIN. ONE PER LAV. COMPLETE W/ ELE. CONNECTIONS TYP.)

4-GANG FLOOR MOUNTED BOX, 2-DUPLEX RECEPTACLE(INCLUDE RECEPTACLE WITH COVER PLATE)/2-GANG FOR DATA - FLUSH MOUNTED UNO FLOOR BOX = MFR.-HUBBELL MODEL#CFB4G30CR-24GCVRNK(COVER)-(2)FBMPDUP-FBMP6KS -CFBHB2(MULTISERVICE STEEL RECESSED FLOOR BOX-VERIFY FLOOR FINISH PRIOR TO ORDER SAME BOX FOR DATA OUTLETS.

6-GANG FLOOR MOUNTED BOX, 2-DUPLEX RECEPTACLE(INCLUDE RECEPTACLE WITH COVER PLATE)/2-GANG FOR DATA - FLUSH MOUNTED UNO FLOOR BOX = MFR.-HUBBELL MODEL#CFB6G30CR-CFBS1R8CVRALU(COVER)-(3)FBMPDUP-FBMP6KS -CFBHB2(MULTISERVICE STEEL RECESSED FLOOR BOX-VERIFY FLOOR FINISH PRIOR TO ORDER SAME BOX FOR DATA OUTLETS.

6" FIRE RATED POKE-TRHOUGHS BOX, 2-DUPLEX RECEPTACLE (INCLUDE RECEPTACLE WITH COVER PLATE)-MFR.-HUBBELL MODEL#\$1R6PTFIT-\$1R6\$PE-\$1R6\$PL-\$1R6\$PH(50/50 DEVICE PLATE COMBINATION)-S1R6CVRALU(COVER) -VERIFY FLOOR FINISH PRIOR TO ORDER SAME BOX FOR DATA OUTLETS.

6" FIRE RATED POKE-TRHOUGHS BOX, FURNITURE FEED,- MFR.-HUBBELL MODEL#\$1R6PTFFALU(ALUMINUM COVER) -VERIFY FLOOR FINISH PRIOR TO ORDER.

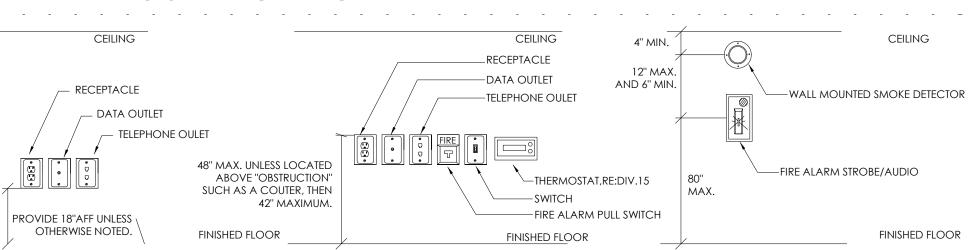
8" FIRE RATED POKE-TRHOUGHS BOX, 2-DUPLEX MFR.-HUBBFII

PRIOR TO ORDER SAME BOX FOR DATA OUTLETS.

RECEPTACLE(INCLUDE RECEPTACLE WITH COVER PLATE)-MODEL#\$1R8PTFIT3-\$1R8C\$PK-\$1R8C\$PK-\$1R8P\$PZ(50/50 DEVICE PLATE COMBINATION)-\$1R8CVRALU(COVER) -VERIFY FLOOR FINISH

NOTE: VERIFY WITH ARCHITECTURAL FOR ADA REQUIREMENTS.

MOUNTING HEIGHT DETAIL



ELECTRICAL LEGEND-LIGHTING

---ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS.

MANUFACTURER SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE. SHARE CIRCUIT QUAD RECEPTACLE(S) <u>SYMBOL</u> DUPLEX RECEPTACLE(S) I.G. RECEPTACLE(S) 2'x4' LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE QCRCPT(S) QUAD I.G. RECEPTACLE(S) 2'X4' LIGHT FIXTURE W/EMERGENCY BATTERY PACK, REFER TO LUMINAIRE SCHEDULE 2'x2' LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE 2'X2' LIGHT FIXTURE W/EMERGENCY BATTERY PACK, REFER TO LUMINAIRE SCHEDULE UNDERFLOOR 1'X4' LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE UNDERGROUND INCANDESCENT, LED, FLUORESCENT, OR HID FIXTURE CLG. OR WALL MTD, UNO(U.N.O.) UNLESS NOTED OTHERWISE REFER TO LUMINAIRE SCHEDULE LED, FLUORESCENT, OR HID FIXTURE WITH EMERGENCY BATTERY PACK. CLG. OR WALL MTD, REFER TO LUMINAIRE SCHEDULE WEATHERPROOF EXIT LIGHT, CEILING OR WALL MOUNTED - SHADING INDICATING TRANSFORMER SINGLE OR DOUBLE FACE; DIRECTIONAL ARROWS AS INDICATED MAIN BREAKER REFER TO LUMINAIRE SCHEDULE MAIN LUGS ONLY

TAMPER PROOF ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

RMC

RNC

DESCRIPTION

EXIT LIGHT SAME AS ABOVE, EXCEPT WITH AN EMERGENCY UNIT AS A COMBO, REFER TO LUMINAIRE SCHEDULE STRIP UTILITY LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE $\longrightarrow \bigcirc \longrightarrow$

STRIP UTILITY STRIP LIGHT WITH EMERGENCY BATTERY PACK, HDH REFER TO LUMINAIRE SCHEDULE WALL SWITCH SPST, 20A,120/277V DOUBLE POLE TOGGLE SWITCH, 20A/120/277V

3-WAY WALL SWITCH, 20A,120/277V WALL DIMMER SWITCH

WALL SWITCH SPST, 20A,120/277V - PILOT LIGHT SWITCH

WALL SWITCH SPST, 20A, 120/277V - KEYED SWITCH, X = 3 OR 4 WAY

<u>ELECTRICAL: LIGHTING FUNCTIONAL TESTING / COMMISSIONING PLAN:</u>

CERTIFICATE OF OCCUPANCY.

CONTRACTOR SHALL PERFORM THE TASK BELOW TO COMMISSION THE LIGHTING CONTROL SYSTEM CONTRACTOR SHALL SUBMIT A DOCUMENTATION DETAILING THE LIGHTING CONTROL SYSTEM, SETTING/CONDITION, ACTIONS PERFORMED AND FINAL SETTING CONDITION. SUBMIT DOCUMENTATION AT OR BEFORE SUBSTANTIAL COMPLETION TO FACILITATE OBTAINING THE

- A. ENSURE ALL LIGHTING FIXTURES FIXTURES HAVE LAMPS INSTALLED AND ARE FUNCTIONAL.
- B. TEST ALL EXIT SIGNS, EMERGENCY LIGHTING FIXTURES, AND EMERGENCY BALLASTS FURNISHED INTEGRAL TO FIXTURES
- C. ENSURE ALL OCCUPANCY SENSORS HAVE BEEN INSTALLED AND ARE OPERATIONAL. D. VERIFY ALL WALLBOX AND SCENE CONTROLLERS ARE INSTALLED AND OPERATIONAL. E. TEST EACH INDIVIDUAL DEVICE FOR OCCUPANCY SENSOR TYPES OS 1, OS2 AND TEST THE LIGHTING
- CONTROL RELAY PANEL SYSTEM F. TEST 10% OF ALL THE DEVICES FOR OCCUPANCY SENSOR TYPE: WSX-PDT-SA.
- G. VERIFY THE FOLLOWING: 1. ALL SENSORS ARE LOCATED AND AIMED PER THE MANUFACTURER'S RECOMMENDATIONS.
- 2. STATUS INDICATORS ON DEVICES ARE OPERATIONAL AND CORRECT.
- 3. DEVICES CONTROL LIGHTING FIXTURES AS INDICATED ON DRAWINGS. 4. TIME DELAYS HAVE BEEN SET AS PER CODE AND PER OWNERS DIRECTIONS. 5. MOVEMENT IN ADJACENT AREAS AND/ CYCLING OF HVAC SYSTEMS DOES NOT FALSE TRIGGER
- 6. PHOTOCELL LOCATION AND AIMED PER MANUFACTURERS RECOMMENDATIONS.
- 7. PROGRAM INTERIOR RELAYS WITH A TIME FUNCTION ACCEPTABLE TO OWNER. 8. PROGRAM INTERIOR OVERRIDE SWITCH WITH A TIME FUNCTIONAL ACCEPTABLE BY OWNER.

Electrical Disconnect Schedule					
Mark	Description				
AHU-1	60AMP, 3-PHASE, 4W, N1,120V, S/N, N.F., H.D. DISCONNECT				
CU-1	60AMP, 3-PHASE, 4W, N1,208V, S/N, N.F., H.D. ROTARY TYPE DISCONNECT				
DXPU-1	100AMP, 3-PHASE, 4W, N3R,480V, S/N, H.D. FUSED DISCONNECT				
DXPU-2	100AMP, 3-PHASE, 4W, N3R,480V, S/N, H.D. FUSED DISCONNECT				
DXPU-3	100AMP, 3-PHASE, 4W, N3R,480V, S/N, H.D. FUSED DISCONNECT				
UH-1	30AMP, 1-PHASE, 3W, N1, 277V, S/N, N.F., H.D. DISCONNECT				
WH-1	60AMP, 3-PHASE, 4W, N1,208V, S/N, N.F., H.D. ROTARY TYPE DISCONNECT				

GENERAL NOTES:

1.) REFER TO BREAKER SIZE FOR FUSE SIZE.

2.) REFER TO PANELBOARD FOR DISCONNECT PHASES AND VOLTAGE.

Light Fixture Schedule

Tag	Lamp	Voltage	Mounting	Description	Manufacturer	Model
E2	LED (4900LM) 4000K	-		WALL MOUNTED FIXTURE RATED FOR WET LOCATION. FIXTURE SHALL BE MOUNTED 8'-0" A.F.F. COORDINATE WITH ALL DISCIPLINES AND ARCHITECTURAL DOCUMENTS PRIOR TO ROUGH-INS.	LITHONIA LIGHTING	CSXW LED-30C-1000-40K-T4M-MVOLTDDBX D
Α	LED (36000 LM) (268W)	277V	PENDANT	LED HIGHBAY WITH LED DRIVER INCLUDE ALL NECESSARY MOUNTING ACCESORIE.	SIGNIFY	FBY36L840-UNV
AE	LED (36000 LM) (268W)	277V	PENDANT	LED HIGHBAY WITH LED DRIVER INCLUDE ALL NECESSARY MOUNTING ACCESORIES WITH EMERGENCY BATTERY PACK.	SIGNIFY	FBY36L840-UNV-BSL10LST
В	LED (4200LM) (38W)	277V	RECESSED	2X4 LAY-IN LED FLAT PANEL WITH LENS AND LED DRIVER INCLUDE ALL NECESSARY MOUNTING ACCESSORIES.	SIGNIFY	2FXP42B840-4-DS-UNV-DIM
B2	LED (5400LM) (51W)	277V	RECESSED	2X4 LAY-IN LED FLAT PANEL WITH LENS AND LED DRIVER INCLUDE ALL NECESSARY MOUNTING ACCESSORIES.	SIGNIFY	2FXP54L840-4-DS-UNV-DIM
В3	LED (3800LM) (33W)	277V	RECESSED	2X4 LAY-IN LED FLAT PANEL WITH LENS AND LED DRIVER INCLUDE ALL NECESSARY MOUNTING ACCESSORIES.	SIGNIFY	2FXP38L840-4-DS-UNV-DIM
ВЗЕ	LED (3800LM) (33W)	277V	RECESSED	2X4 LAY-IN LED FLAT PANEL WITH LENS AND LED DRIVER INCLUDE ALL NECESSARY MOUNTING ACCESSORIES WITH EMERGENCY BATTERY PACK.	SIGNIFY	2FXP38L840-4-DS-UNV-DIM-EMLED
BE	LED (4200LM) (38W)	277V	RECESSED	2X4 LAY-IN LED FLAT PANEL WITH LENS AND LED DRIVER INCLUDE ALL NECESSARY MOUNTING ACCESSORIES WITH EMERGENCY BATTERY PACK.	SIGNIFY	2FXP42B840-4-DS-UNV-DIM-EMLED
С	LED (1000LM) (20W)	277V	RECESSED	4"LED OPEN DOWN- LUMINAIRE, SEMI-SPECULAR REFLECTOR, WITH 0-10V DRIVER	SIGNIFY	4RN Z4RNDL 10840WOCDZ10U
CE	LED (1000LM) (20W)	277V	RECESSED	4"LED OPEN DOWN- LUMINAIRE, SEMI-SPECULAR REFLECTOR, WITH 0-10V DRIVER WITH EMERGENCY BATTERY PACK.	SIGNIFY	4RN-EM-Z4RNDL 10840WOCDZ10U
D	LED (4000LM) (31W)	277V	SURFACE	4' LED STRIP LIGHT	SIGNIFY	FSS440840-UNV-DIM
D2	LED (4000LM) (31W)	277V	SURFACE	4' LED STRIP LIGHT	SIGNIFY	FSS440840-UNV-DIM
Е	INCLUDED	277V	SURFACE	THERMOPLASTIC EXIT/EMERGENCY UNIT WITH SELF-DIAGNOSTICS	EELP	DEM-LEDACEM
E2	INCLUDED	277V	SURFACE	THERMOPLASTIC EXIT/EMERGENCY UNIT WITH SELF-DIAGNOSTICS	EELP	OEM-LED
F	LED (4000LM) (31W)	277V	SURFACE	4' LED STRIP LIGHT	SIGNIFY	FSS440840-UNV-DIM
X1	INCLUDED	277V	SURFACE	THERMOPLASTIC EXIT/EMERGENCY UNIT WITH SELF-DIAGNOSTICS	EELP	XC-LED 1 R W SD
AA	LED (3,484 LM) (25W)	277V	SURFACE	LED WALL FIXTURE RATED FOR WET LOCATION AND INCLUDE ALL REQUIRED LED DRIVERS.	SOLERA	STAR-25W-3884-4000K-UNV-WM-OAL-FB -WL-BZ
ВВ	LED(24500LM) (206W)	277V	LED POLE	LED AREA LUMINAIRE, POLE MOUNT LUMINAIRE, INCLUDE BASE COVER, RATED FOR WET LOCATION, UL LISTED, POLE SHALL BE SIZE FOR MIN. 130 MPH, INCLUDE VIBRATION DAMPERS	SIGNIFY	FIXTURE: ECF-S-64L-1A-NW-G2-AR-3-UNV-RPA-BZ POLE: RT6801130-G/BZ-DM10-VDI-BC
CC	LED(24500LM) (412W)	277V	LED POLE	BACK-TO-BACK LED POLE MOUNT AREA LUMINAIRE, INCLUDE BASE COVER, RATED FOR WET LOCATION, UL LISTED, POLE SHALL BE SIZE FOR MIN. 130 MPH, INCLUDE VIBRATION DAMPERS	SIGNIFY	FIXTURE: ECF-S-64L-1A-NW-G2-AR-3-UNV-RPA-BZ POLE: RT6801130-G/BZ-DM28-VDI-BC
DD	LED (9,400 LM) (107W)	277V	SURFACE	LED WALL PACK FIXTURE RATED FOR WET LOCATION AND INCLUDE ALL REQUIRED LED DRIVERS.	SIGNIFY	121-32-1000-NW-G3-4-UNV-BZ
FF	LED (6,000 LM) (52W)	277V	SURFACE	LED WALL PACK FIXTURE RATED FOR WET LOCATION AND INCLUDE ALL REQUIRED LED DRIVERS.	SIGNIFY	121-32-530-NW-G3-4-UNV-BZ

GENERAL NOTES:

1.) EQUAL MANUFACTURER SHALL BE ACCEPTABLE WITH EQUAL PERFORMANCE OF SPECIFIED EQUIPMENT AND APPROVED BY ENGINEER. 2.) SUBMIT EQUAL MANUFACTURERS TO ENGINEER 10 DAYS PRIOR TO BID DATE.

3.) SUBMIT LIGHT FIXTURES CUTSHEETS TO OWNER FOR APPROVAL PRIOR TO ORDER.

4.) CONTRACTOR SHALL VERIFY THAT ANY IRRIGATION SPRINKLER HEAD IS AWAY FROM ANY LIGHT POLE A MINIMUM OF 75' TO AVOID CONSISTENT WATER TO LIGHT POLE. COORDINATE WITH IRRIGATION CONTRACTOR PRIOR TO ANY WORK.

5.) ANCHOR BOLTS SHALL BE OF NON-CORROSIVE MATERIAL (STAINLESS STEEL).

6.) ACCEPTABLE MANUFACTURES; LITHONIA, GOTHAM.

INDEX OF SHEETS ELECTRICAL **ELECTRICAL** ES1.1 ELECTRICAL SITE PLAN ELECTRICAL LIGHTING FLOOR E1.0 ELECTRICAL POWER FLOOR PLAN E3.0 ELECTRICAL SPECIAL SYSTEMS E4.0 ELECTRICAL LEGEND E4.1 ELECTRICAL SCHEDULES E5.0 ELECTRICAL DETAILS

ELECTRICAL DETAILS

APRIL 23, 2021 MEP ENGINEERING 3533 Moreland Dr. Ste A I Weslaco, Tx 78596 p:956.973.0500 l f:956-351-5750 www.trinitymep.com I Copyright 2020 Texas Registered Engineering Firm - F10362 Project number: 19.4.24



MILNET **ARCHITECTURAL SERVICES**

AMERICAN INSTITUTE OF ARCHITECTS

PROJECT NUMBER

ISSUED FOR BIDS

219014

APRIL 23, 2021

		Locatio						17-14-	400/07711				D-4! ^	_		
			n: ELEC	JI 101					480/277 W	ye			Rating: 3	5		
	S	upply From						Phases:				Mains Type: Mains Rating: 600 A				
		Mountin	•					Wires:	4				-			
		Enclosur	e: ⊺ype ⊟			1						MCB Rating: 600 A				
СКТ	Circuit Description	Trip	Poles		mments			E	3	(C	Comments	Poles	Trip	Circuit Description	СКТ
MDP-1	EF-1	20 A	1		#12G,1/2"C	600 VA	824 VA					2#12, 1#12G,1/2"C	1	20 A	SITE LIGHTING	MDP-2
MDP-3	SITE LIGHTING	20 A	1	2#12, 1	#12G,1/2"C			618 VA	960 VA			2#12, 1#12G,1/2"C	1	20 A	Lighting	MDP-4
MDP-5	GYM LIGHTING	20 A	1	2#12, 1	#12G,1/2"C					1612 VA	1612 VA	2#12, 1#12G,1/2"C	1	20 A	GYM LIGHTING	MDP-6
MDP-7	SITE LIGHTING	20 A	1	2#12, 1	#12G,1/2"C	412 VA	1612 VA					2#10, 1#10G,3/4"C	1	20 A	GYM LIGHTING	MDP-8
MDP-9	Lighting	20 A	1	2#12, 1	#12G,1/2"C			912 VA	831 VA			2#12, 1#12G,1/2"C	1	20 A	Lighting	MDP-1
ADP-11	EXTERIOR LIGHTING	20 A	1	2#12, 1	#12G,1/2"C					750 VA	625 VA	2#12, 1#12G,1/2"C	1	20 A	EXTERIOR LIGHTING	MDP-1
ADP-13	PANEL-R1 / VIA TX-R1	125 A	3	4#1,	1#6G,2"C	23373 VA	1612 VA					2#12, 1#12G,1/2"C	1	20 A	GYM LIGHTING	MDP-14
ADP-15	-				-			23473 VA	1612 VA			2#12, 1#12G,1/2"C	1	20 A	GYM LIGHTING	MDP-10
ADP-17										23093 VA	0 VA	4#8, 1#10G,3/4"C	3	35 A	CU-1	MDP-18
ADP-19	EXTERIOR LIGHTING	20 A	1	2#12, 1	#12G,1/2"C	500 VA	0 VA					-				MDP-2
ADP-21	GYM LIGHTING	20 A	1	2#10, 1#10G,3/4"C				1612 VA	0 VA			-			-	MDP-2
/IDP-23	EF-2	20 A	1	2#12, 1#12G,1/2"C						600 VA	13573 VA	4#6, 1#10G,1"C	3	50 A	AHU-1	MDP-2
MDP-25							13573 VA								-	MDP-2
MDP-27									13573 VA							MDP-2
MDP-29	DXPU-1	80 A	3	4#3, 1#6G,1.5"C						21052 VA	21052 VA	4#4, 1#8G,1.5"C	3	80 A	DXPU-2	MDP-3
ADP-31	-	-			_	21052 VA	21052 VA								-	MDP-3
ADP-33		-						21052 VA	21052 VA							MDP-3
ADP-35	Lighting	20 A	1	2#12. 1	#12G,1/2"C					1000 VA	21052 VA	4#4, 1#8G,1.5"C	3	80 A	DXPU-3	MDP-3
MDP-37	1) SPD	30 A	3	•	•	0 VA	21052 VA									MDP-3
MDP-39					-			0 VA	21052 VA			-				MDP-4
MDP-41		<u> </u>			-					0 VA						MDP-4
Total Load:						4050	20.1/4	40070	7.1/4	-	24.1/4					.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
						10566		10673			21 VA					
		Tota	I Amps:			38		386			3 A					
oad Classifi	cation				Connected		De	emand Fact	or	Esti	mated Demand			Panel	Totals	
VAC ther					3200 VA			100.00%			3200 VA		Tatal Can		240404 \/A	
eceptacle					26400 V			100.00% 68.56%			26400 VA				318421 VA	
					26940 V			100.00%			18470 VA 240187 VA	!		l Conn.:	314225 VA	
Power								125.00%			21368 VA	-				
Lighting				17095 V							I	otal Est. [Jemano:	3/8 A		
and Dryer					4600 VA	\		100.00%			4600 VA					
otes:																
	NTEGRAL SURGE PROTECT	וטא טביייכ	E 100K	Δ												
I NOVIDE II	NILGINE GUILGE FRUTEUT	ION DEVIC	, 100K/	•												

	DRY-TYPE TRANSFORMER SCHEDULE							
LABEL	TRANSFORMER DESCRIPTION	PRIMARY VOLTAGE FEEDER - 480V, 3	SECONDARY VOLTAGE FEEDER - 120/208V, 3 , 4W					
TX-R	TYPE-DT-3: GENERAL, 75KVA, COPPER WINDINGS,3-PHASE, (P)480V-(S)208/120V,115°RISE,NEMA-1	4#1, 1#6G, 2"C	4#3/0, 1#6G, 3"C					
NOTE: ALL DRY-TYP TRANSFORMER SHALL BE ENERGY EFFICIENT MODELS AND MEET 2016 ENERGY EFFICIENT REQUIREMENT.								

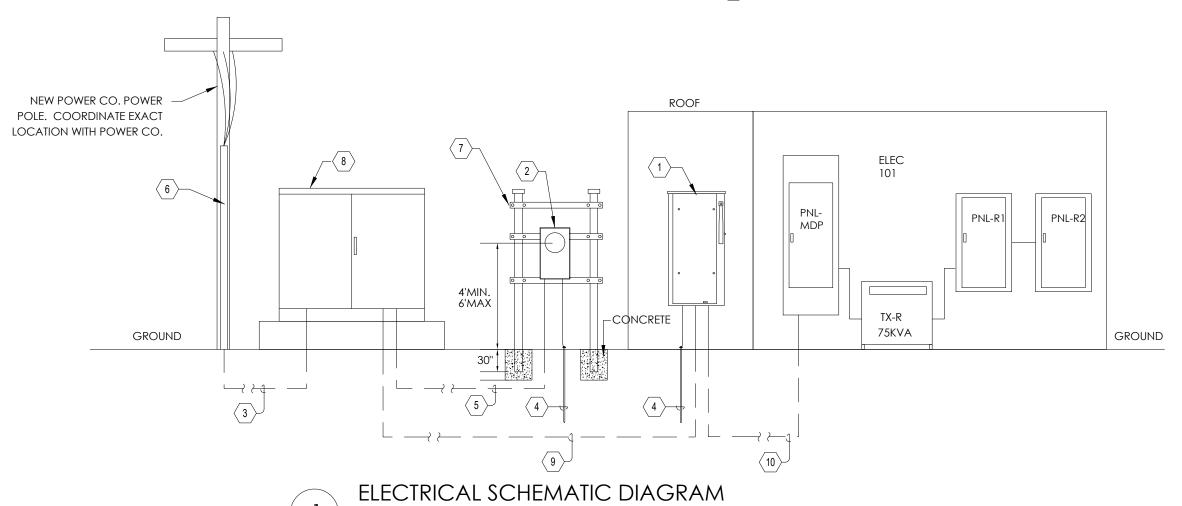
GENERAL NOTES:

- A. PROVIDE GROUND /BONDING AS INDICATED ON THE NATIONAL ELECTRICAL CODE.
- B. NAME PLATES SHALL BE PROVIDED FOR ALL ELECTRICAL SWITCH GEAR, PANEL BOARDS, LIGHTING CONTACTORS, LIGHTING CONTROL PANELS, ETC.. BY ELECTRICAL CONTRACTOR.
- C. NEW ELECTRICAL METERING AND SERVICE EQUIPMENT SHALL BE PROVIDED AND INSTALLED ACCORDING TO THE LOCAL POWER UTILITY CO. AND CITY REQUIREMENTS. VERIFY AND COORDINATE WITH POWER UTILITY CO. AND AHJ BEFORE BID AND INSTALLATION.
- D. COMPLY WITH NFPA 70E SAFETY REQUIREMENTS.
- E. PANELBOARDS WITH MORE THAN 42 CIRCUITS SHALL BE IN ONE CABINET ENCLOSURE, UNLESS OTHERWISE NOTED.
- F. PROVIDE 4"CONCRETE PAD FOR ALL DRY-TYPE TRANSFORMERS.
- G. ALL TWO SECTION PANELBOARDS SHALL BE FEED THRU LUGS.
- H. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY OF ELECTRICAL SERVICE TO THE NEW BUILDING WITHIN PROJECT SCHEDULE. COORDINATE ALL COST FOR LABOR AND MATERIALS WITH LOCAL ELECTRICAL UTILITY COMPANY PRIOR TO BID. ALL COST ASSOCIATED WITH THE DELIVERY OF ELECTRICAL SERVICE INCLUDING ALL MATERIALS SHALL BE INCLUDED IN BID. TRANSITION OF NEW ELECTRICAL SERVICE SHALL PROCEED IN WEEKENDS OR HOLIDAYS, INCLUDE ALL COST IN BID FOR OVERTIME FROM ELECTRIC UTILITY COMPANY. NO ADDITIONAL PAYMENT WILL BE MADE FOR SERVICE DELIVERY COSTS AFTER CONTRACT HAS BEEN AWARDED.
- I. ELECTRICAL SERVICE 480/277V 1000AMPS OR MORE SHALL INCLUDE GROUND FAULT PROTECTION.
- J. ELECTRICAL SERVICE 120V THRU 480V 1000AMPS OR MORE SHALL INCLUDE AN ARC REDUCTION MAINTENANCE SWITCH. COORDINATE EXACT LOCATION OF SUCH SWITCH.

ELECTRICAL RISER DIAGRAM KEYED NOTES:

- 1 PROVIDE 600AMPS, 480V, 3-PHASE, 4W, S/N, N3R, HEAVY DUTY FUSED SERVICE ENTRANCE DISCONNECT, FUSED@500AMPS.
- 2 NEW ELECTRICAL SERVICE METER 277/480V, 3-PHASE, 4W. CONTRACTOR SHALL PROVIDE METER BASE. VERIFY WITH POWER FOR METER BASE REQUIREMENTS PRIOR TO BID DATE. INCLUDE ALL COST IN BID. COORDINATE ALLOCATION OF METER SOCKET AND WIRING WITH POWER COMPANY.
- (3) FURNISH AND INSTALL 1-4"C FOR UTILITY PRIMARY RACEWAY TO POWER SOURCE AS DIRECTED BY UTILITY COMPANY. PROVIDE WARNING RIBBONS 12" ABOVE CONDUIT.
- 4 1#3/0G IN 1"C, 3/4"X10' COPPER CLAD RODS. PROVIDE GROUNDING AS PER NEC REQUIREMENTS.
- $\left\langle 5\right\rangle$ PROVIDE 1-2"C WITH PULLSTRING.
- 6 NEW POWER COMPANY POLE WITH RISER DIP POLE. COORDINATE WITH POWER COMPANY FOR ALL REQUIREMENTS.
- 3"GALVANIZED PIPE WITH UNISTRUT STAND FOR ELECTRICAL SERVICE EQUIPMENT. COORDINATE WITH UTILITY COMPANY PRIOR TO ANY WORK.
- NEW POWER COMPANY PAD MOUNT TRANSFORMER 277/480V, 3-PHASE, 4W, PROVIDE CONCRETE PAD AS PER POWER COMPANY REQUIREMENTS.
- 9 PROVIDE 2-RUNS EACH OF 4#250KCMIL, 3"C.
- $\fbox{10}$ PROVIDE 2-RUNS EACH OF 4#250KCMIL, 1#2G, 3"C.

80/277V, 3 , 4W ELECTRICAL LOAD ANALYSIS								
00/2// ۷, 3 , 4۷۷ LLLC	CINICAL LOAD ANALISIS							
escription	TOTAL KVA							
GHTING	16							
SENERAL POWER	27							
./C	230							
VATER HEATER	3							
	total watts:	276 KVA						
	TOTAL AMPS:	332 AMPS						
	TOTAL +25%AMPS: WIRE SIZE AMPS:							



			TERM	IDE A INTERSYSTEM BONDING INAL GROUND BAR.
	FLOOR		1#60	FLOOR
REFER TO SITE PLAN	·	 - (3) 4"C		ROUTE TO ELECTRODE, TIE INTO THE GROUNDING ELECTRODE

ELEC. RM 101

CEILING

- (3) 3/4" THICK 4" HIGH PLYWOOD BACKBOARD

$\overline{2}$	TELE/DATA RISER
2	SCALE: NTS

CEILING

	s		: 15 kV/ : Surfac	l .	Wires,		Volts: Phases: Wires:		ye		Main Mains MCB	Rating: ns Type: Rating: Rating:	225 A		
СКТ	Circuit Description	Trip	Poles	Comments	A		ı	В		С	Comments	Poles	Trip	Circuit Description	CK
R1-1	Receptacle	20 A	1	2#12, 1#12G,1/2"C	180 VA	800 VA					2#6, 1#10G,1"C	1	20 A	Receptacle	R1-
R1-3	Receptacle	20 A	1	2#6, 1#10G,1"C			1200 VA	1500 VA			2#6, 1#10G,1"C	1	20 A	Receptacle	R1-
R1-5	Board Controls J-Box	20 A	1	2#12, 1#12G,1/2"C					200 VA	2000 VA	2#4, 1#8G,1.5"C	1	20 A	Backboard	R1
R1-7	Receptacle	20 A	1	2#10, 1#10G,3/4"C	1000 VA	1200 VA					2#6, 1#10G,1"C	1	20 A	Receptacle	R1
R1-9	Backboard	20 A	1	2#6, 1#10G,1"C			2000 VA	1000 VA			3#12, 1#12G,1/2"C	2	20 A	UH-1	R1-
R1-11	Receptacle	20 A	1	2#8, 1#10G,3/4"C					600 VA	1000 VA					R1-
R1-13	Backboard	20 A	1	2#4, 1#8G,1.5"C	1800 VA	8093 VA					4#3, 1#6G,1.5"C	3	100 A	PANEL-R2	R1-
R1-15	Receptacle	20 A	1	2#10, 1#10G,3/4"C			600 VA	7473 VA			-				R1-
R1-17	Quad Floor Box	20 A	1	2#10, 1#10G,3/4"C					600 VA	9593 VA	-				R1-
R1-19	Fire Sprinkler	20 A	1	2#12, 1#12G,1/2"C	600 VA	600 VA					2#10, 1#10G,3/4"C	1	20 A	Quad Floor Box	R1-
R1-21	Quad Floor Box	20 A	1	2#8, 1#10G,3/4"C			600 VA	800 VA			2#8, 1#10G,3/4"C	1	20 A	Receptacle	R1-
R1-23	Receptacle	20 A	1	2#6, 1#10G,1"C					800 VA	1200 VA	2#6, 1#10G,1"C	1	20 A	Receptacle	R1-
R1-25	Receptacle	20 A	1	2#8, 1#10G,3/4"C	800 VA	1200 VA					2#4, 1#8G,1.5"C	1	20 A	Receptacle	R1-
R1-27	Receptacle	20 A	1	2#8, 1#10G,3/4"C			1200 VA	1500 VA			2#4, 1#8G,1.5"C	1	20 A	Receptacle	R1-
R1-29	Receptacle	20 A	1	2#6, 1#10G,1"C					1500 VA	1800 VA	2#6, 1#10G,1"C	1	20 A	Scoreboard	R1-
R1-31	Receptacle	20 A	1	2#4, 1#8G,1.5"C	1500 VA	1800 VA					2#4, 1#8G,1.5"C	1	20 A	Scoreboard	R1-
R1-33	Scoreboard	20 A	1	2#6, 1#10G,1"C			1800 VA	1800 VA			2#4, 1#8G,1.5"C	1	20 A	Scoreboard	R1-
R1-35	Scoreboard	20 A	1	2#3, 1#8G,1.5"C					1800 VA	2000 VA	2#8, 1#10G,3/4"C	1	20 A	Backboard	R1-
R1-37	Scoreboard	20 A	1	2#10, 1#10G,3/4"C	1800 VA	2000 VA					2#3, 1#8G,1.5"C	1	20 A	Backboard	R1-3
R1-39	Backboard	20 A	1	2#4, 1#8G,1.5"C			2000 VA								R1-4
R1-41	Space			-					0 VA	0 VA	_			Space	R1-4
R1-43	Space			_	0 VA	0 VA					-			Space	R1-
R1-45	Space			-			0 VA	0 VA			-			Space	R1-
R1-47	Space			-					0 VA	0 VA	_			Space	R1-
R1-49	Space			-	0 VA	0 VA					-			Space	R1-
R1-51	Space	_					0 VA	0 VA				_		Space	R1-
R1-53	Space	_							0 VA	0 VA		-	_	Space	R1-
R1-55	Space	_			0 VA	0 VA								Space	R1-
R1-57	Space						0 VA	0 VA			<u></u>	_		Space	R1-
R1-59	Spare	20 A	1						0 VA	0 VA		1	20 A	Spare	R1-
R1-61	Spare	20 A	1		0 VA	0 VA						1	20 A	Spare	R1-
R1-63	Spare	20 A	1		0 0,71	0 171	0 VA	0 VA				1	20 A	Spare	R1-
55	- Spails		Load:		23373	VA		'3 VA	230	093 VA			2071		1
			Amps:		195			6 A		92 A		ı			
oad Classi	fication			Conne	cted Load	_	emand Fact			nated Demand			Panel	Totals	
IVAC					00 VA		100.00%			2000 VA				1	
Other					400 VA		100.00%			26400 VA		Total Co	onn. Load	69940 VA	
leceptacle					940 VA		68.56%			18470 VA				61470 VA	
													tal Conn.:		
ower					000 VA		100.00%			10000 VA					
land Dryer				46	00 VA		100.00%			4600 VA		otal Est	. Demand:	1/1 A	

	Brar	nch Pane							100/5								
				HANICAL 100					120/208 W	ye			Rating: 1	8			
		Supply From						Phases:				Mains Type: Mains Rating: 100 A					
		Mounting	-					Wires:	4				•				
		Enclosur	e: Type										Rating: 1	00 A			
СКТ	Circuit Description	Trip	Poles		nments		4	ı	В	(С	Comments	Poles	Trip	Circuit Description	Cł	
R2-1	Receptacle	20 A	1		#12G,1/2"C	1500 VA	200 VA					2#12, 1#12G,1/2"C	1	20 A	Receptacle	R2	
R2-3	Receptacle	20 A	1	<u> </u>	#12G,1/2"C			200 VA	3333 VA			4#8, 1#10G,3/4"C	3	40 A	WH-1	R2	
R2-5	Receptacle	20 A	1	2#12, 1	#12G,1/2"C					180 VA	3333 VA					R2	
R2-7	Receptacle	20 A	1	2#12, 1	#12G,1/2"C	180 VA	3333 VA									R2	
R2-9	Receptacle	20 A	1	2#12, 1	#12G,1/2"C			180 VA	400 VA			2#12, 1#12G,1/2"C	1	20 A	Receptacle	R2	
R2-11	Receptacle	20 A	1	2#12, 1	#12G,1/2"C					180 VA	400 VA	2#12, 1#12G,1/2"C	1	20 A	Receptacle	R2-	
R2-13	Receptacle	20 A	1	2#12, 1	#12G,1/2"C	180 VA	800 VA					2#12, 1#12G,1/2"C	1	20 A	Receptacle	R2-	
R2-15	Receptacle	20 A	1	2#12, 1	#12G,1/2"C			600 VA	200 VA			2#12, 1#12G,1/2"C	1	20 A	Door Opener J-box	R2-	
R2-17	Receptacle	20 A	1	2#12, 1	#12G,1/2"C					200 VA	200 VA	2#12, 1#12G,1/2"C	1	20 A	Receptacle	R2	
R2-19	Receptacle	20 A	1	2#12, 1	#12G,1/2"C	200 VA	200 VA					2#12, 1#12G,1/2"C	1	20 A	Receptacle	R2-	
R2-21	Receptacle	20 A	1	2#12, 1	#12G,1/2"C			200 VA	360 VA			2#12, 1#12G,1/2"C	1	20 A	Receptacle	R2	
R2-23	Hand Dryer	25 A	1	2#6, 1	#10G,1"C					2300 VA	2300 VA	2#6, 1#10G,1"C	1	25 A	Hand Dryer	R2	
R2-25	Receptacle	20 A	1	2#12, 1	#12G,1/2"C	400 VA	600 VA					2#10, 1#10G,3/4"C	1	20 A	Receptacle	R2-	
R2-27	FACP	20 A	1	2#12, 1	#12G,1/2"C			0 VA	1200 VA			2#12, 1#12G,1/2"C	1	20 A	Receptacle	R2-	
R2-29	SEC	20 A	1	2#12, 1	#12G,1/2"C					0 VA	500 VA	2#12, 1#12G,1/2"C	1	20 A	Plumbing Sensors	R2-	
R2-31	Spare	20 A	1			0 VA	500 VA					2#12, 1#12G,1/2"C	1	20 A	Plumbng Sensors	R2-	
R2-33	Spare	20 A	1					0 VA	800 VA			2#10, 1#10G,3/4"C	1	20 A	Receptacle	R2-	
R2-35	Spare	20 A	1							0 VA	0 VA	-		-	Space	R2-	
R2-37	Spare	20 A	1			0 VA	0 VA						-		Space	R2-	
R2-39	Spare	20 A	1					0 VA	0 VA				-		Space	R2-	
R2-41	Spare	20 A	1							0 VA	0 VA			_	Space	R2-	
l		Tota	al Load:			8093	3 VA	747	3 VA	959:	3 VA			1			
			I Amps:			68	3 A	62	2 A		1 A						
_oad Classi	fication				Connected Lo			emand Fact			mated Demand			Panel 1	Totals		
Other					1200 VA			100.00%			1200 VA						
Receptacle					9360 VA			100.00%			9360 VA		Total Cor	n. Load:	25160 VA		
Power					10000 VA			100.00%			10000 VA		Total Est. I	Demand:	25160 VA		
Hand Dryer					4600 VA			100.00% 4600 VA		4600 VA		Tota	al Conn.:	70 A			
													Total Est. I	Demand:	70 A		
Notes:																	

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AT "EL TULE"

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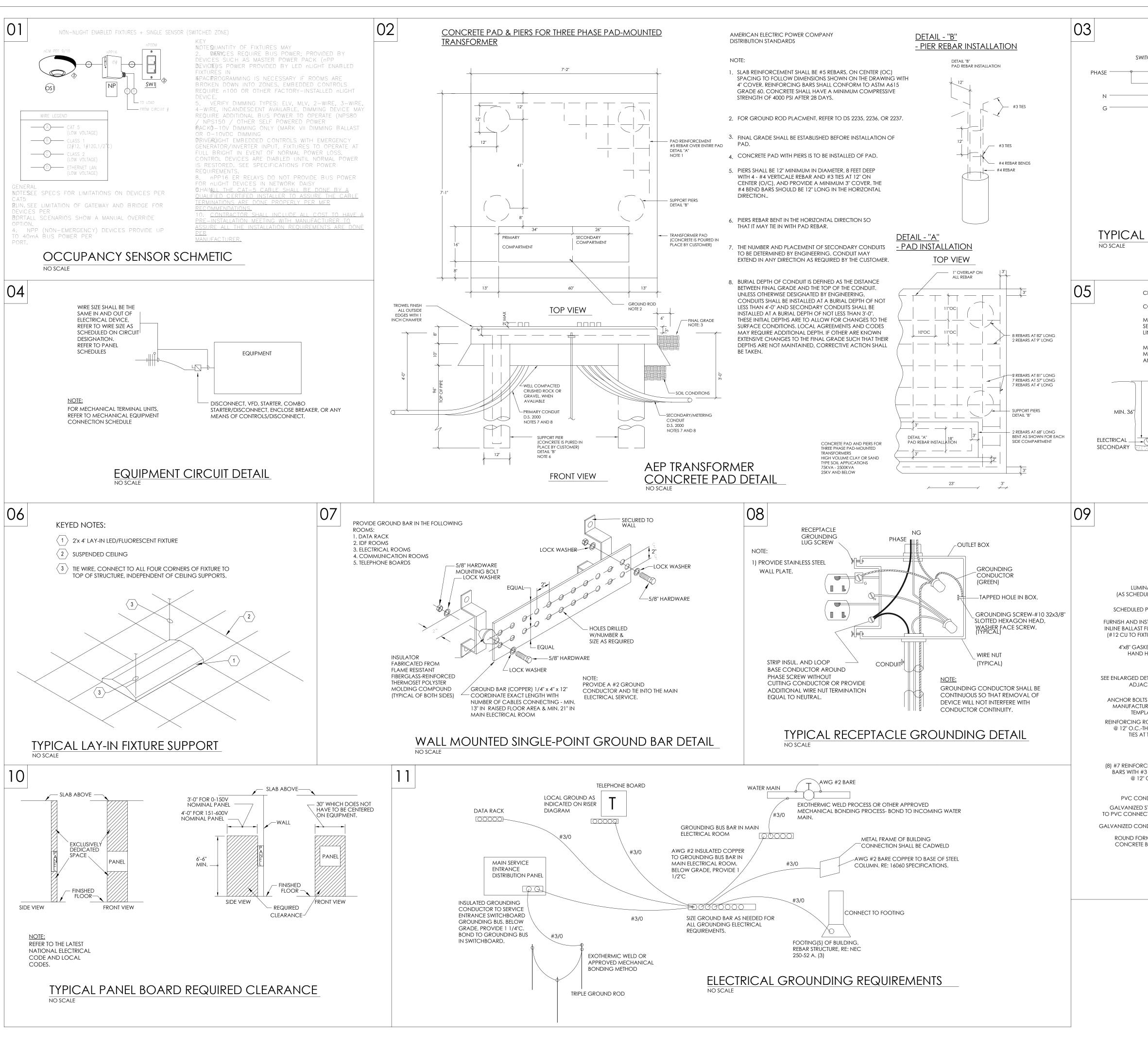
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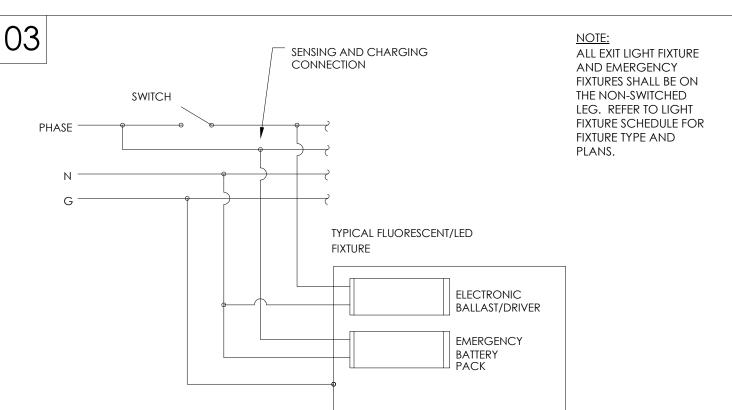
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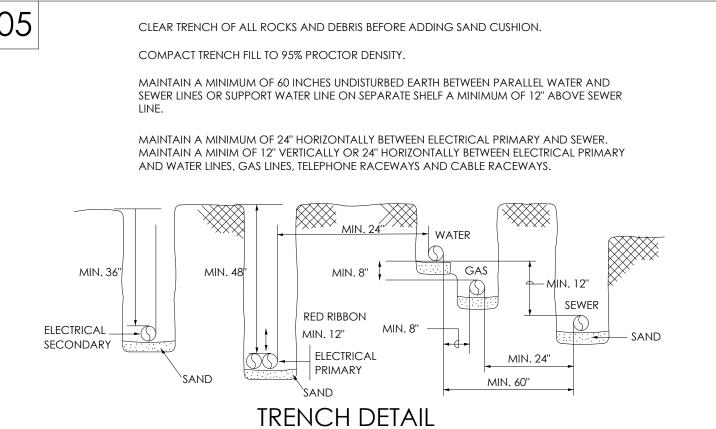
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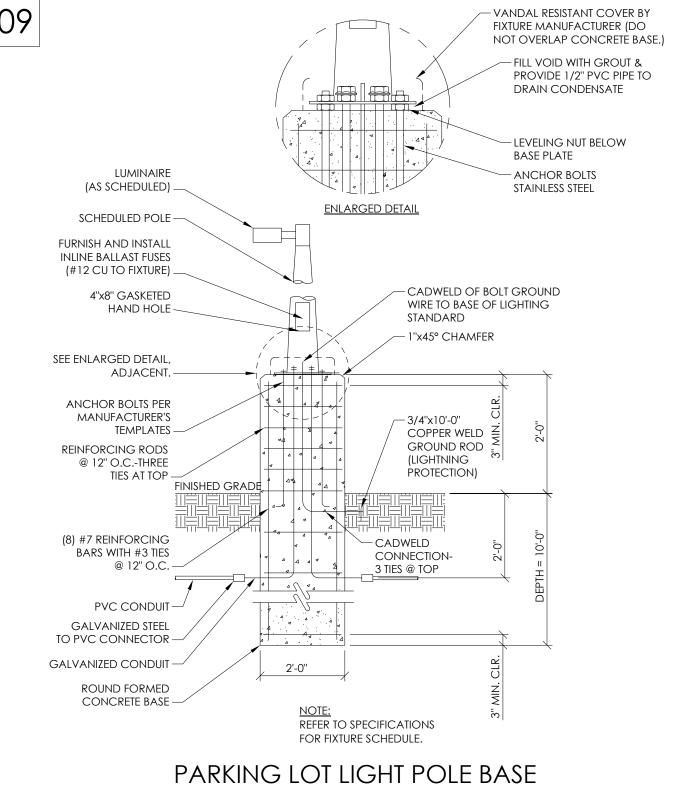




TYPICAL EMERGENCY LIGHT FIXTURE SCHEMATIC



NO SCALE









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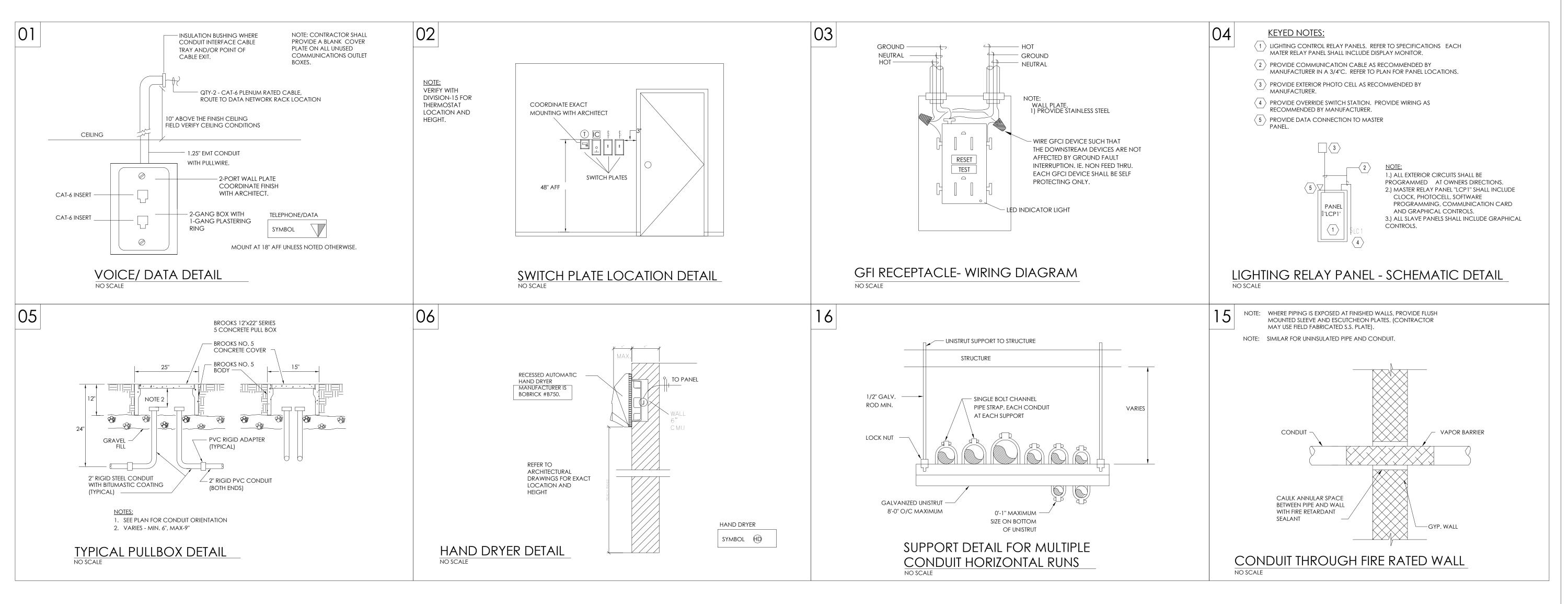
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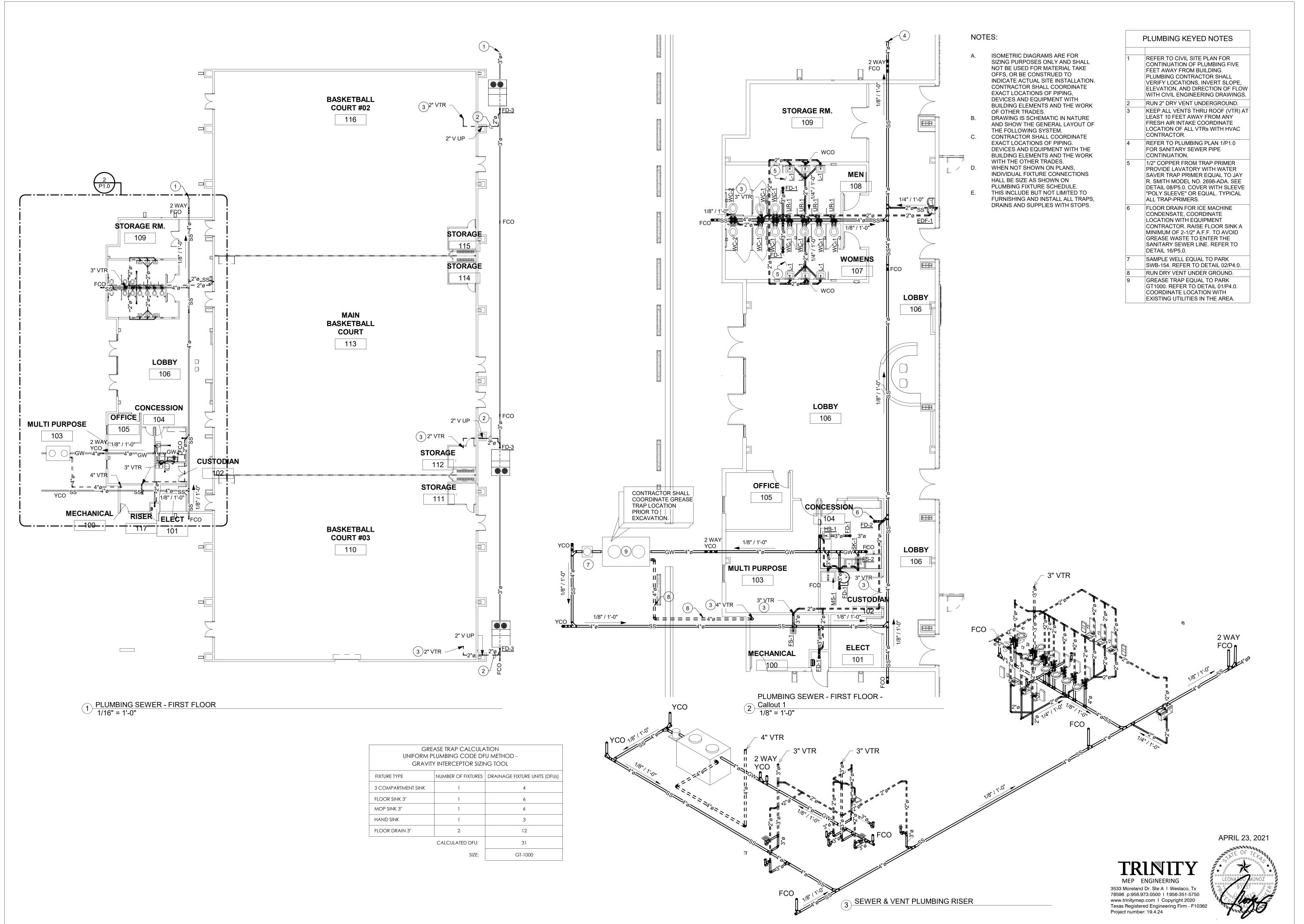
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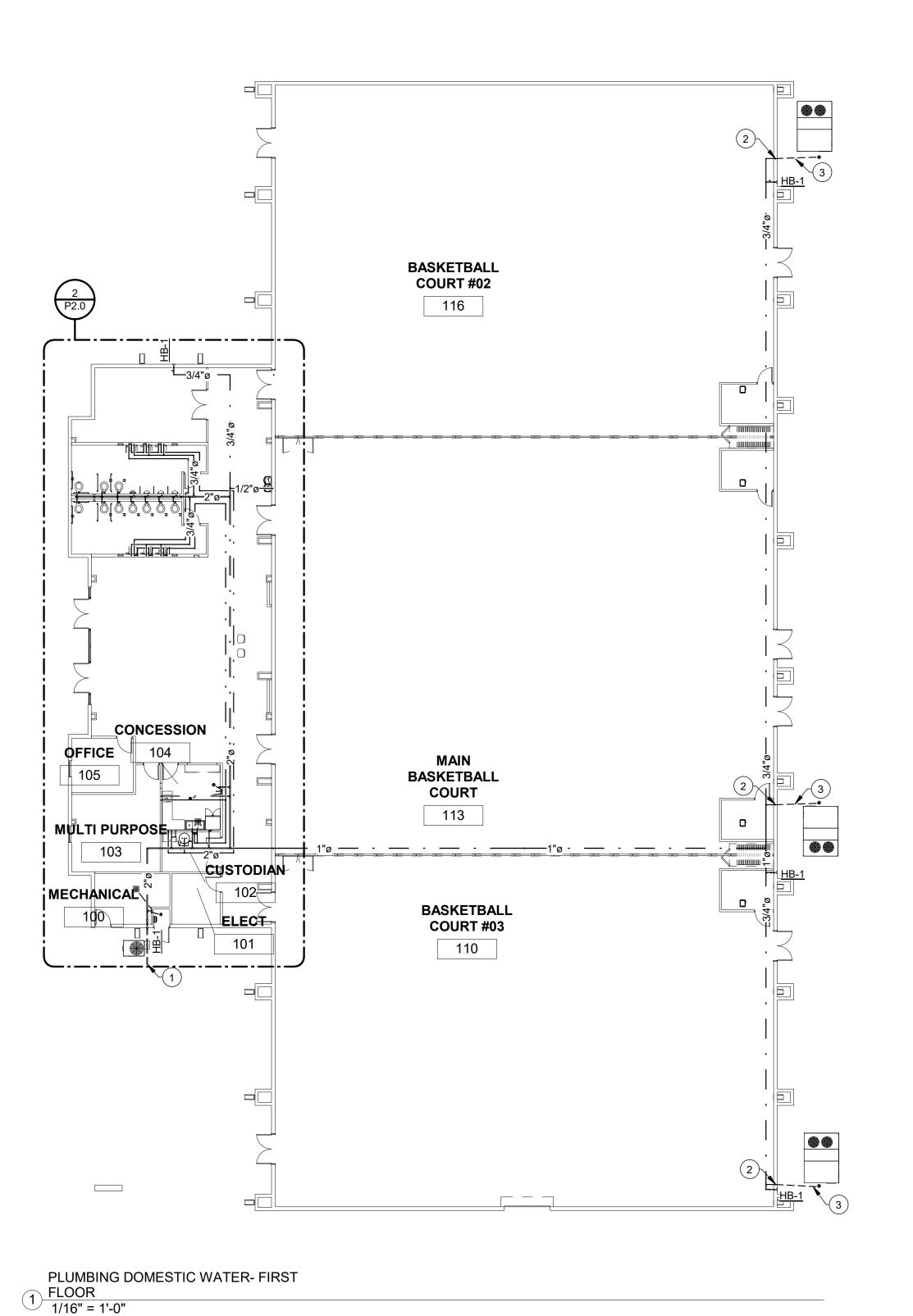
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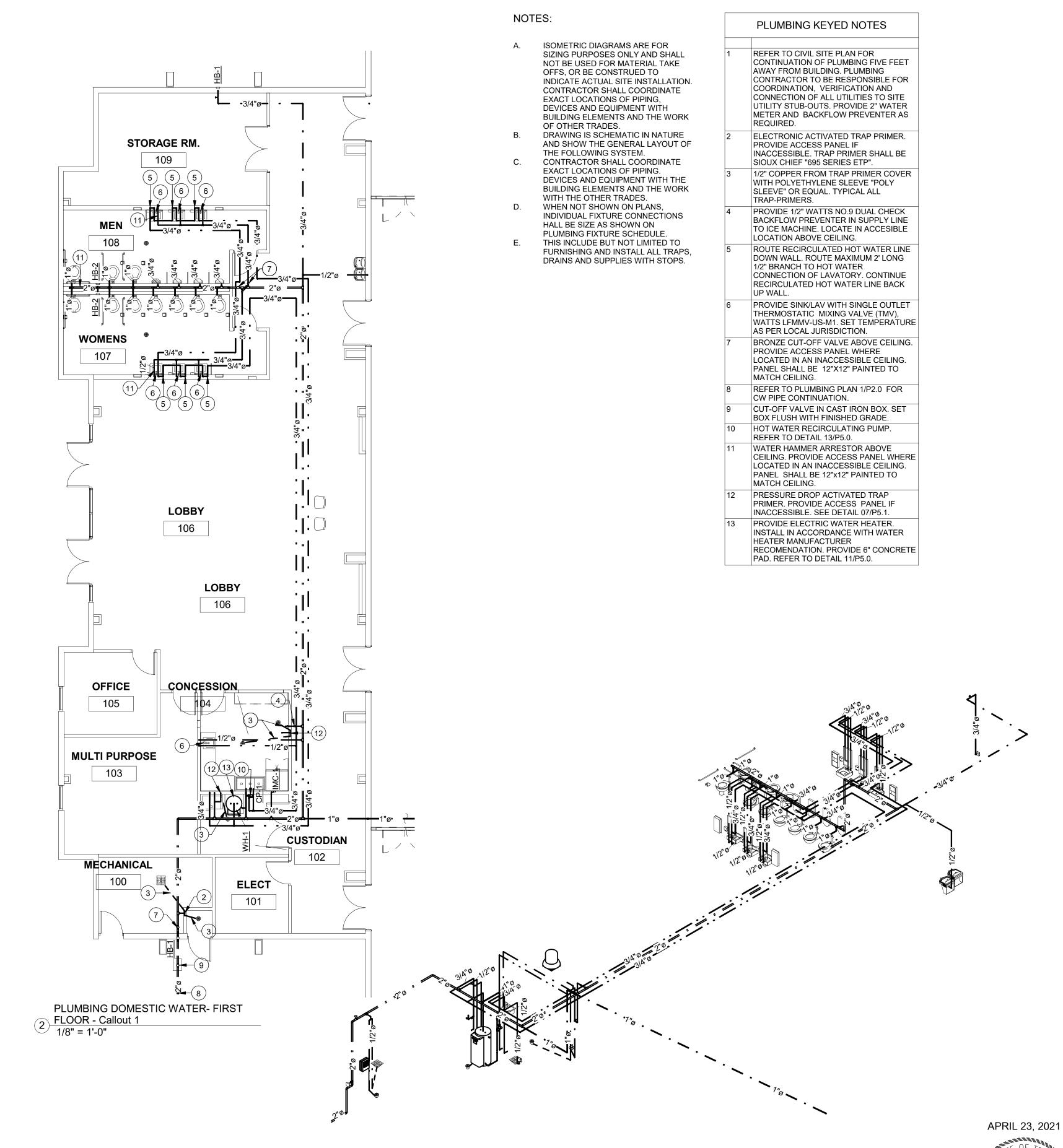
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P1.0





OMESTIC WATER PLUMBING RISER

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MEP ENGINEERING

ABBREV.	DESCRIPTION
AC	ABOVE CEILING
AFF	ABOVE FINISHED FLOOR
ASA	american standards association
ASME	AMERICAN SOICIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AW	ACID WASTE
AWWA	AMERICAN WATER WORKS ASSOCIATION
AV	ACID VENT
BTUH	BRITISH THERMAL UNIT PER HOUR
CA	COMPRESSED AIR
CI	CAST IRON
CO	CLEANOUT
CU	COPPER
DN	DOWN
EQ	EQUAL
FCO	FLOOR CLEANOUT
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
GAL	GALLON(S)
GALV	GALVANIZED
GW	GREASE WASTE
НВ	HOSE BIBB
HP	HORESPOWER
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
RD	ROOF DRAIN(S)

REFER TO DETAIL 4 DRAWING P-6

UNDERWRITERS LABORATORIES

REVERSE OSMOSIS

STORM DRAIN

TYPICAL

VACUUM

WITH

SPECIFICATION

UNDERGROUND

VENT THRU ROOF

WALL CLEAN OUT

YARD CLEAN OUT

RE:4/P6

WCO

YCO

PLUMBING GENERAL NOTES: (ALL SHEETS)

- A. ALL WORK AND MATERIAL SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AS ADAPTED AND AMENDED BY THE INSPECTING AUTHORITIES.
- B. ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID CONFLICT WITH ALL ELECTRICAL WORK, MECH'L WORK AND STRUCTURAL MEMBERS. COORDINATE WITH MECHANICAL, ELEC'L AND STRUCTURAL FOR PROPER CLEARANCES.
- C. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASING AND SEQUENCE OF CONSTRUCTION OF WORK.
- D. SLEEVE ALL OUTSIDE WALL, FLOOR SLAB, AND GRADE BEAM PENETRATIONS PER DETAILS AND PER CODE.
- E. LOCATE ALL PLUMBING VENTS TO ROOF (VTR) SO THAT THEY TERMINATE A MINIMUM OF 1'-0" AWAY FROM ANY VERTICAL SURFACE AND 10'-0" AWAY FROM ANY OUTSIDE AIR INTAKES.
- F. RECORD INVERT ELEVATIONS OF ALL YCO'S ON "AS-BUILT" DRAWINGS.G. MINIMUM 3" WASTE LINE BELOW FLOOR AND MINIMUM 2" WASTE RISER. UNLESS NOTED OTHERWISE (UNO).
- H. PLUMBING CONTRACTOR SHALL PAY FOR ALL UTILITY CONNECTIONS FEES, PERMITS, TESTS AND INSPECTIONS. FURNISH 3 COPIES OF INSPECTION CERTIFICATE BEFORE REQUESTING FINAL PAYMENT.
- I. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND REPAIRING ALL AREAS WHICH ARE DAMAGED BY HIS OPERATIONS.
- J. CUTTING OF CONCRETE FLOORS SHALL BE BY MACHINE SAW, HOLES FOR PIPES (WALL OR FLOOR) SHALL BE DONE WITH CORE DRILLING EQUIPMENT WITH PRIOR APPROVAL FROM THE STRUCTURAL ENGINEERS.
- K. PRESSURE TEST ALL INSTALLATIONS PRIOR TO CONNECTING EQUIPMENTS.L. LABEL ALL PIPING PER ANSI STANDARD.
- M. PROVIDE PROPER INSULATION ON ALL HOT WATER PIPING, STORM PIPING AND CONDENSATE PIPING.
- N. PROVIDE SHUT-OFF VALVES (STOPS) ON ALL ROUGH-INS TO FIXTURES AND EQUIPMENTS.
- O. PROVIDE ANY BACK FLOW PREVENTION DEVICE REQUIRED BY CODE OR GOVERNING AUTHORITIES. CONTRACTOR SHALL VERIFY THIS WITH CITY OR LOCAL AGENCIES AND INCLUDE COST OF SAME IN BID. CONTRACTOR TO HAVE BACK FLOWS CERTIFIED.
- P. PROVIDE WATER HAMMER ARRESTORS AS INDICATED ON THE DRAWINGS.
 AIR CHAMBERS NOT AN APPROVED SUBSTITUTE.
- Q. ALL EXPOSED PIPING FOR DESIGNATED DISABLED ACCESS FIXTURES SHALL BE COVERED OR OTHERWISE WRAPPED IN ACCORDANCE WITH A.D.A. REQUIREMENTS AND LOCAL AUTHORITY.
- R. ALTERNATE MATERIALS NOT IDENTIFIED IN SPECIFICATIONS/DRAWINGS BUT APPROVED BY LOCAL AUTHORITY SHALL BE SUBMITTED TO ARCHITECT AND PLUMBING ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
- S. ISOMETRIC DIAGRAMS ARE FOR SIZING PURPOSES ONLY AND SHALL NOT BE USED FOR MATERIAL TAKE-OFFS, OR BE CONSTRUED TO INDICATE ACTUAL SITE INSTALLATION.
- T. DRAWING IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.
- U. EVERY FLOOR DRAIN, FLOOR SINK OR HUB DRAIN SHALL BE SERVED BY AN AUTOMATIC TRAP PRIMER, UNO.

PLU	MBING SY	MROF F	EGEND
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	BALL VALVE	_===	DOMESTIC COLD WATER
	CHECK VALVE	====	DOMESTIC HOT WATER
	GATE VALVE	_====	DOMESTIC HOT WATER RETURN
—— ——	UNION		SANITARY SEWER VENT
-	DIRECTION OF FLOW		SANITARY WASTE LINE
\dashv	WALL CLEANOUT	140°	140° HOT WATER
—ф	FLOOR CLEANOUT YARD CLEANOUT		SANITARY DIRECTION OF FLOW
- ⊋ @	FLOOR SINK		BRANCH - TOP CONNECTION
Ø ⊂ — Ø	FLOOR DRAIN	+0	PIPE RISER
-+>-	WALL HYDRANT OR HOSE BIBB	C+	PIPE DROP
		•	POINT OF CONNECTION (APPROXIMATED FIELD VERIFY EXACT POINT OF CONNECTION)

2. INSTALL WATER CLOSET FLUSH VALVE HANDLE TOWARDS WIDER SIDE OF

3. INSTALL ADA APPROVED FLUSH VALVE HANDLE FOR ADA PLUMBING FIXTURES.

PLUMBING PLUMBING P1.0 PLUMBING SEWER & VENT FLOOR PLAN P2.0 PLUMBING DOMESTIC WATER FLOOR PLAN P3.0 PLUMBING LEGEND P4.0 PLUMBING SCHEDULE

PLUMBING DETAILS

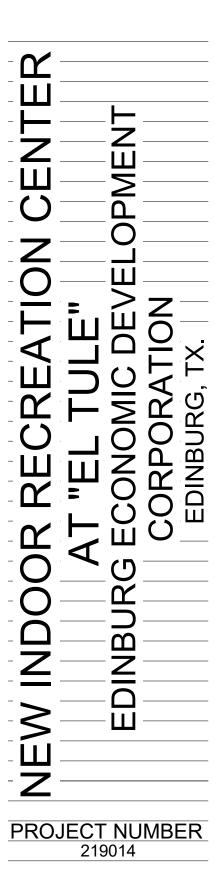
WATER CLOSET OR DOOR OPENING.

PLUMBING PIPING MATERIAL:

- SANITARY DRAIN & VENT INSIDE BUILDING BELOW GRADE:
 SCHEDULE 40 PVC
- 2. SANITARY DRAIN OUTSIDE BUILDING: SCHEDULE 40 PVC
- 3. SANITARY DRAIN & VENT INSIDE BUILDING ABOVE GRADE: SCHEDULE 40 PVC
- 4. SANITARY DRAIN & VENT IN PLENUM CEILING: NO-HUB CAST IRON
- 5. ACID WASTE PIPING:
- 6. ACID VENT IN PLENUM CEILING: FR-PVDF
- 7. DOMESTIC HOT & COLD WATER: COPPER, TYPE "L" HARD DRAWN
- 8. DOMESTIC WATER BELOW GRADE: COPPER, TYPE "K" SOFT ANNEALED
- 8. DOMESTIC WATER BELOW GROUND OUTSIDE OF BUILDING PIPING 2" SIZE AND SMALLER: COPPER, TYPE "L" HARD DRAWN
- 9. DOMESTIC WATER BELOW GROUND OUTSIDE OF BUILDING PIPING OVER 2" SIZE: SDR 26 CLASS 160 PVC

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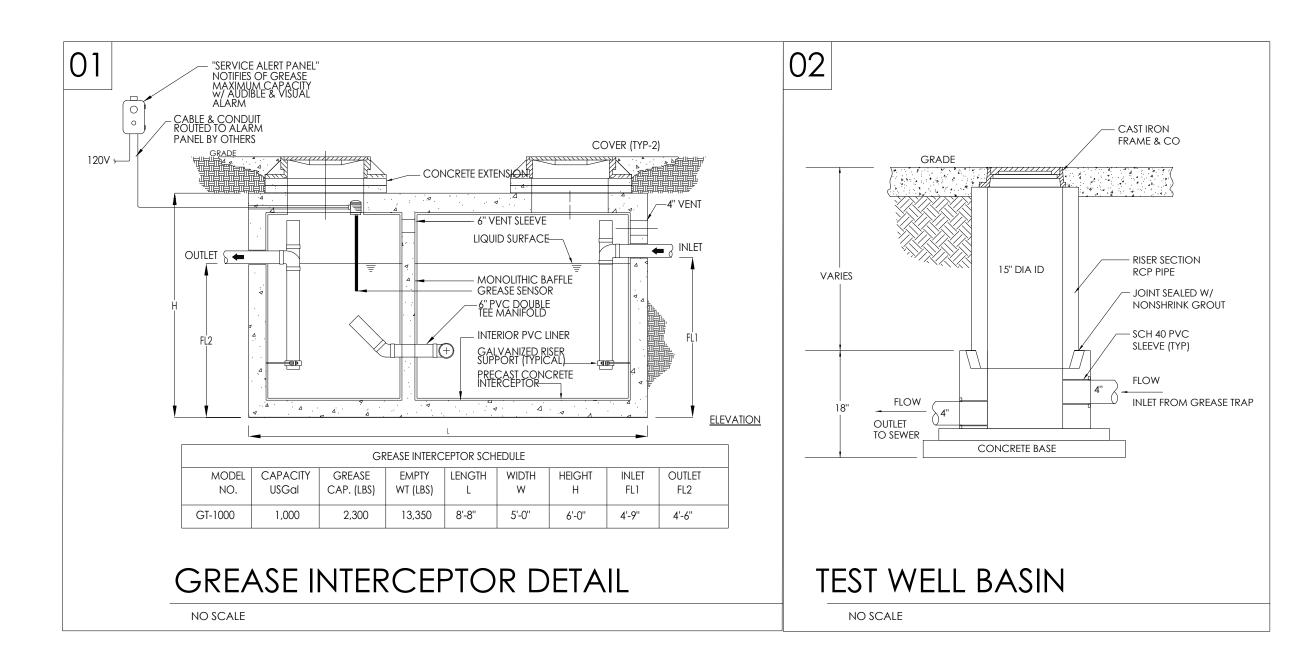
Project number: 19.4.24

SHEET NUMBER

P3.0

	ELECTRIC WATER HEATER SCHEDULE											
DESIG.	STORAGE GALLONS	RECOVERY G.P.H.	DEGREE RISE °F	WATER TEMP. LEAVING	WATER INLET	WATER OUTLET	REMARKS					
WH-1	50	51	80°	140°	3/4"	3/4"	RHEEM MODEL NO. ELD52, 10KW, 208V/3 , ELECTRIC TANK TYPE. PROVIDE 5 GAL EXPANSION TANK. PROVIDE 6 INCH CONCRETE PAD.					

	RECIRCULATING PUMP SCHEDULE									
MARK	GPM	FEET HEAD	H.P.	RPM	VOLTS/PHASE	REMARKS				
CP-1	0-11	0-10	1/40	3250	115 volts/	EQUAL TO TACO MODEL 006-B4 CARTRIDGE CIRCULATOR, MAINTENANCE FREE, WET-ROTOR, IN-LINE, SINGLE STAGE CIRCULATOR. PROVIDE TACO CLOCK TIMER AND TEMPERATURE AQUASTAT MODEL NO. 00 TIMERERS/AQUASTAT				



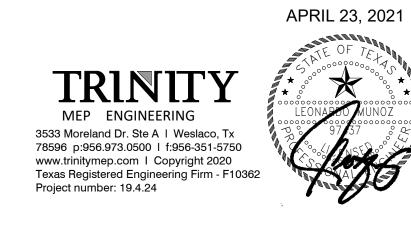
			F	PLUME	BING	FIXTURE SCHEDULE
A A DIC	FINTURE TYPE	San. Sewer	CONNECTIO	1	11-114-1	DESCRIPTION
WC-1 WC-2	FIXTURE TYPE WATER CLOSET WALL HUNG STANDARD AND ADA REFER TO ARCH'L DRAWING FOR	4"	Vent 2"	Cold Water	Hot Water	KOHLER "KINGSTON" MODEL NO. K-4325-SS, WALL HUNG WATER CLOSET, WITH ELONGATED RIM, LOW CONSUMPTION (1.6 GPF), WITH SLOAN "ROYAL" OPTIMA SENSOR OPERATED FLUSHOMETER MODEL NUMBER 111 ES-S WITH TRANSFORMER MODEL NO. EL-386 (120VAC/24 VAC 50 VA). 1-1/2" TOP SPUD INLET. VITREOUS CHINA, COMPLETE WITH BEMIS MODEL NO. 1955SSTFR, OPEN FRONT SEAT LESS COVER. FLUSH LEVER SHALL BE MOUNTED ON APPROACH SIDE OF THE FIXTURE.
	MOUNTING HEIGHTS					CARRIER BY WADE 330 SERIES SIPHON JET DOUBLE/ SINGLE ADJUSTABLE VERTICAL CARRIER-FITTING. PROVIDE WITH (HD) OPTION, HEAVY DUTY SUPPORT HARDWARE (UP TO 500 LBS.)
UR-1	JR-1 URINAL (STANDARD & ADA) REFER TO ARCH'L DRAWING FOR MOUNTING HEIGHTS		2"	3/4"	-	KOHLER "DEXTER" MODEL NO. K-5016-ER, SIPHON JET WALL HUNG URINAL. VITREOUS CHINA, 1 GPF FLUSH OR LESS, COMPACT DESIGN, WITH INTEGRAL TRAP, 3/4" TOP INLET, 14" LIP, INCLUDES WALL HANGERS, 2" IPS OUTLET FLANGE AND RUBBER GASKET. WITH SLOAN "ROYAL" OPTIMA SENSOR OPERATED FLUSHOMETER MODEL NUMBER 186-10 ES-S WITH EL-386 TRANSFORMER. PROVIDE ZURN CARRIER SYSTEM MODEL NO. Z-1221.
L-1	LAVATORY WALL HUNG ADA REFER TO ARCH'L DRAWING FOR MOUNTING HEIGHTS	2"	2"	1/2"	1/2"	KHOLAR "BRENHAM" MODEL NO. K-1997-4 (21x19) WALL HUNG LAVATORY. WITH OVERFLOW. INCLUDES WALL HANGER. VITREOUS CHINA, PROVIDE SENSOR ACTIVATED ELECTRONIC FAUCET EQUAL TO SLOAN MODEL ETF-600 WITH TRANSFORMER MODEL NO. ETF-233 (120VAC/24 VAC 50 VA). VANDAL RESISTANT, ADA APPROVED. PROVIDE ANTI-ROTATION DECKPLATE MODEL NO. 99550. PROVIDE PROTECTIVE COVER ON P-TRAP AND STOPS. PROVIDE ZURN CARRIER SYSTEM MODEL: Z1231 PROVIDE P-TRAP: 17 GAUGE CHROME DEARBORN BRAND PROVIDE SINK/LAV WITH SINGLE OUTLET THERMOSTATIC MIXING VALVE (TMV), WATTS LFMMV-US-M1. SET TEMPERATURE AS PER LOCAL JURISDICTION.
HS-1	HAND SINK ADA	2"	2"	1/2"	1/2"	SLOAN MODEL NO. EHS-1750 STAINLESS STEEL ADA HAND WASHING SINK WITH SLOAN (BATTERY OPERATED) SENSOR. PROVIDE WITH THERMOSTATIC MIXING VALVE.
SK-1	THREE-COMPARTMENT KITCHEN SINK ADA COMPLIANT	2"	2"	1/2"	1/2"	CUSTOM FABRICATE STAINLESS STEEL SINK 10" DEEP, WITH DRAIN BOARDS AND 8" HIGH BACK SPLASH. PROVIDE FISHER 34452 PRE-RINSE UNIT - SPRING - 8" C/C BACKSLASH CONTROL VALVE, ULTRA SPRAY, WALL BRACKET & ADD-ON FAUCET 10" SPROUT, CHROME REFER TO ARCHITECTURAL DRAWIINGS FOR SINK DIMENSIONS. PROVIDE \$ 5,000 DOLLAR ALLOWANCE
EDF-1	ELECTRIC WATER COOLER W/ Water Refilling Station REFER TO ARCH'L DRAWING FOR MOUNTING HEIGHTS	2"	2"	1/2"	-	BI-LEVEL ELECTRIC WATER COOLER SHALL BE "ELKAY" MODEL No. LZOSTL8LC electronic sensor, WITH Elkay EZH2O Water Refilling Station, CAPACITY OF 8.0 GALLONS, STAINLESS STEEL BASIN WITH INTEGRAL DRAIN GRID AND EMBOSSED BUBBLER PAD, LEAD FREE ADA COMPLIANT, WITH ZURN CARRIER MODEL No. Z-1225, WITH APRON MODEL NO. LKAPR-EZL TO COMPLY WITH TAS AND ADA. PROVIDE P-TRAP: 17 GAUGE CHROME DEARBORN BRAND
MS-1	MOP SINK	3"	2"	1/2"	1/2"	FIAT MODEL NO. TSB 100, 24"X24"X12" TERRAZO MOP SINK, COMPLETE WITH FAUCET MODEL 830-AA, MOP SINK SHALL INCLUDE ALL HOSE BRACKETS, HOSE, AND MOP HANGER. WITH 3" DRAIN WITH STRAINER & DEEP SEAL P-TRAP. PROVIDE WALL GUARD MSG2424.
IMC	ICE MAKER CONNECTION BOX	-	-	1/2"	-	CONNECTION BOX EQUAL TO GUY GRAY NO. BIM875 PREFABRICATED RECESSED BOX WITH COMPRESSION ANGLE VALVE.
HB-1	HOSE BIB EXTERIOR GENERAL USE	-	-	3/4"	-	MILD TEMPERATURE WALL HYDRANT SHALL BE WOODFORD MODEL B65 3/4" INLET WITH BRONZE CASING, BRONZE FACE AND STRAIGHT INLET CONNECTION WITH INTEGRAL BACKFLOW PREVENTER.
HB-2	WALL FAUCET INTERIOR HOSE BIB	-	-	3/4"	-	WOODFORD MODEL B26 (IN BOX) P-3/4" INLET, WITH BACKFLOW PREVENTER AND LOOSE TEE KEY.
FS-1	FLOOR SINK	AS NOTED ON PLANS				EQUAL TO JOSAM PART # 49364A-4-31-Z-SSLF, 12" SQUARE A.R.E. TOP, WITH 9-7/8" DEEP SUMP STAINLESS STEEL FLOOR SINK LESS FLANGE, 3/4 GRATE, ALUMINUM SEDIMENT BUCKET.
FD-1	FLOOR DRAIN	AS NOTED ON PLANS				EQUAL TO JOSAM PART # 30003-6A-Y-50, CAST IRON BODY WITH CLAMP RING, FLANGE, ADJUSTABLE NIKALOY STRAINER, HUB OUTLET WITH GASKET AND 1/2" PRIMER TAP.
FD-2	FLOOR DRAIN AS NOTED ON PLANS ICE MAKER					EQUAL TO JOSAM PART # 30003-7E2-Y, COATED CAST IRON BODY WITH CLAMP RING, TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE, ADJUSTABLE NIKALOY FUNNEL STRAINER.
FD-3	3 FLOOR DRAIN AS NOTED ON PLANS HUB DRAIN					EQUAL TO WADE MODEL NO. 1000-HD-1-2NH-94-39 GALVANIZED CAST IRON BODY. 2" HUB DRAIN PROVIDE WITH 1/2" TRAP PRIMER TAP.
FCO	FLOOR CLEANOUT AS NOTED ON PLANS					MIFAB MODEL "C1100-R-1" ADJUSTABLE FLOOR CLEANOUT, COMPLETE WITH NICKEL BRONZE TOP ASSEMBLY, LACQUERED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, AND PRIMARY GASKET SEAL.
YCO	YARD CLEANOUT AS NOTED ON PLANS					MIFAB MODEL "C-1220" LACQUERED CAST IRON CLEANOUT, THREADED BRONZE PLUG FOR AIR TIGHT SEAL AND STANDARD REINFORCED SATIN FINISHED NICKEL BRONZE ADJUSTABLE TOP ASSEMBLY.
WCO	WALL CLEANOUT	AS NOTED ON PLANS				MIFAB MODEL "C1430-RD" CAST BRONZE CLEANOUT PLUG. COMPLETE WITH STAINLESS STEEL WALL ACCESS COVER AND ANCHOR SCREW. MOUNT 24" A.F.F.

NOTES:

1.) INSULATE ALL WATER AND WASTE PIPING UNDER LAVATORIES WITH HANDY-SHIELD JACKET BY PLUMBEREX.

2.) PROVIDE SINGLE FIXTURE WATER HAMMER ARRESTORS EQUAL TO <u>MINI-RESTER</u>, <u>HYDRA-RESTER</u> SIOUX CHIEF. FOR ALL PLUMBING FIXTURES IN THE WATER SUPPLY SYSTEM.

3.) ALL VITREOUS CHINA FIXTURES SHALL BE WHITE.



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CORPORATION

EDINBURG, TX.

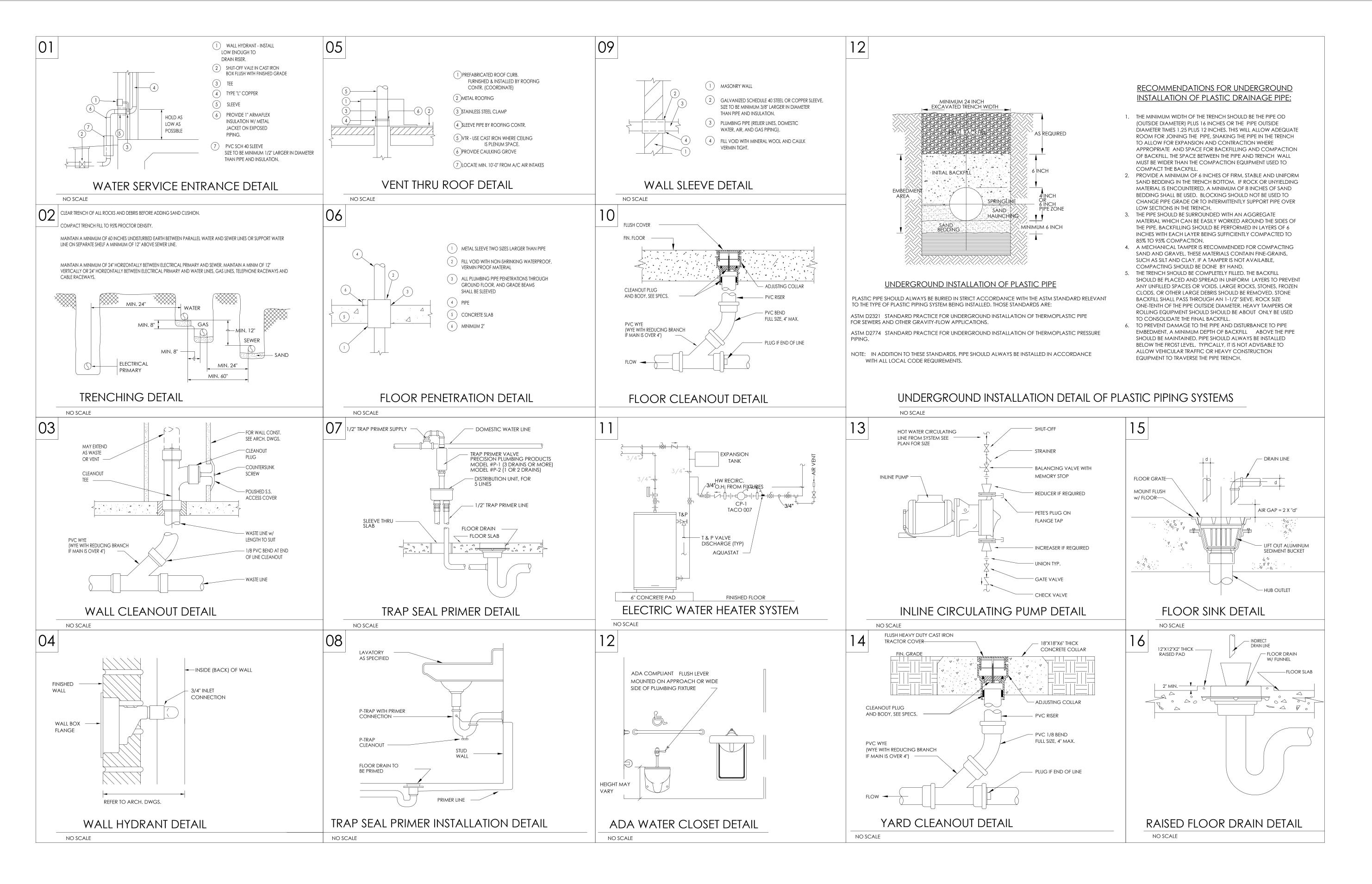
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DATE

APRIL 23, 2021

SHEET NUMBER

P4.0





ARCHITECTURAL

AMERICAN INSTITUTE OF ARCHITECTS

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NEW INDOOR RECREATION CENTER
AT "EL TULE"
EDINBURG ECONOMIC DEVELOPMENT
CORPORATION

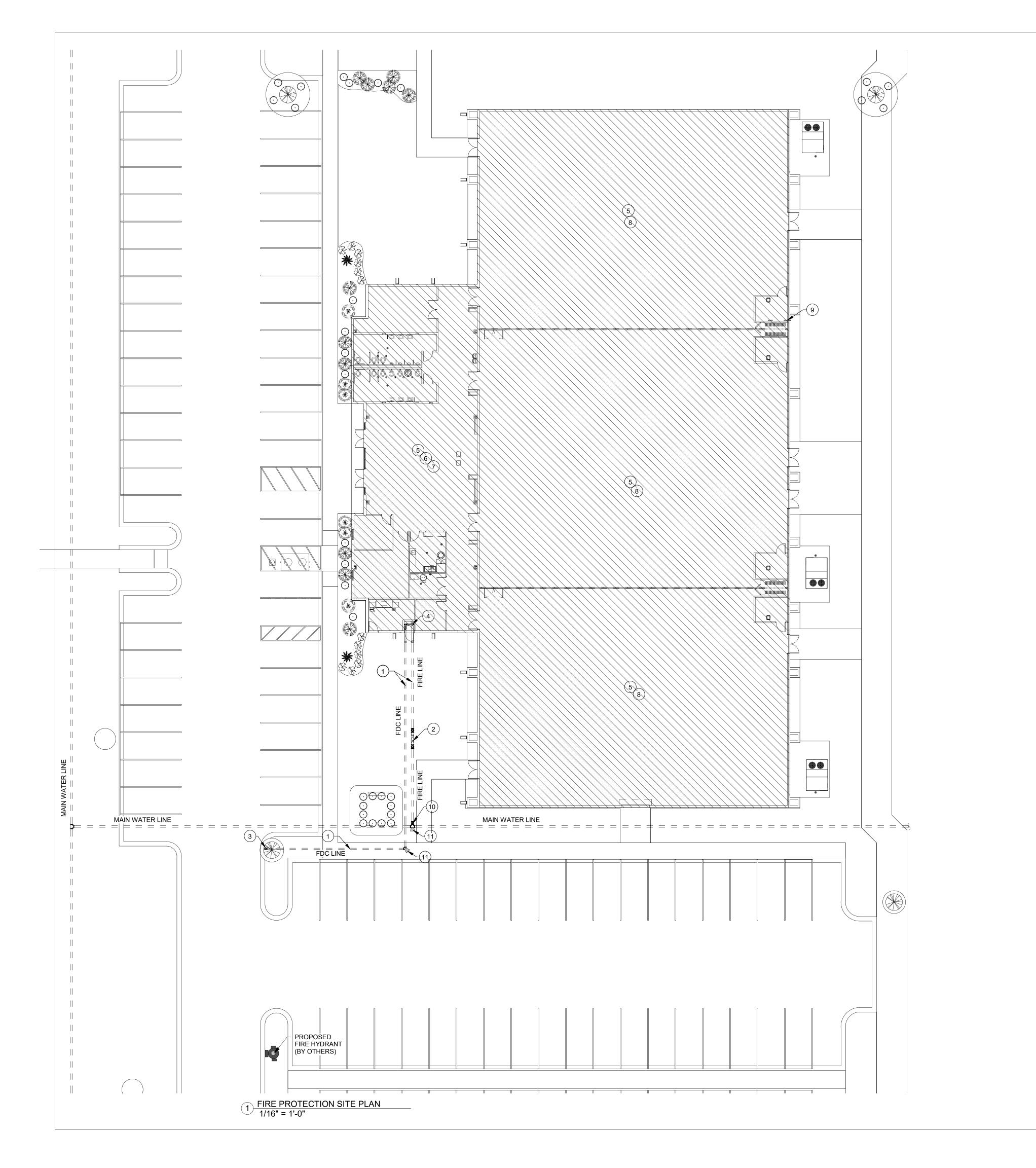
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GENERAL NOTES - FIRE PROTECTION:

- SYSTEM TO BE DESIGNED TO MEET CITY OF EDINBURG AND FIRE MARSHAL CODES. PLANS SHALL BE SUBMITTED TO THE CITY OF EDINBURG FOR REVIEW AND APPROVAL. FIRE MARSHAL TO BE THE FINAL APPROVING AUTHORITY FOR ALL FIRE PROTECTION WORK.
- FIRE DEPARTMENT CONNECTION SHALL BE AS REQUIRED BY LOCAL FIRE MARSHAL
- ALL PIPE TO BE SIZED HYDRAULICALLY ALL PIPING UNDER SLAB SHALL BE STAINLESS STEEL. ELSE USE DUCTILE IRON. VERIFY WITH LOCAL APPROVING AUTHORITY.
- DETAILS DESCRIBE SOME SPRINKLER COMPONENTS REQUIRED BY A AUTOMATICALLY OPERATED SYSTEM. SPRINKLER CONTRACTOR TO PROVIDE ALL SYSTEM COMPONENTS REQUIRED FOR A TURN KEY FIRE SPRINKLER
- CONTRACTOR IS FULLY RESPONSIBLE FOR THE DESIGN OF THE NEW FIRE SPRINKLER SYSTEM. ALL NFPA CODES APPLICABLE SHALL BE USED AND FOLLOWED.
- PROVIDE SIGNS FOR FDC, ALL VALVES, AND RISER. HAZARD CLASSIFICATION SHALL BE AS PER NFPA 13. ALL UNDERGROUND PIPE TO BE DR-18 C900 AND TO BE

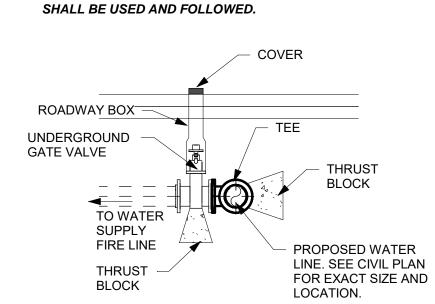
INSTALLED AS PER NFPA 24.

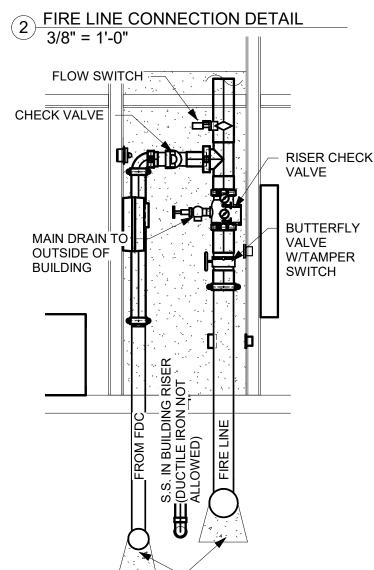
DAMAGED FROM WATER LEAK.

- REFER TO SPECIFICATIONS FOR FURTHER INSTRUCTIONS. ALL ABOVE CEILING PIPING WILL NEED TO BE ROUTED AROUND EXISTING CONDUITS, BEAMS, MECHANICAL DUCT WORK AND DRAIN LINES. ALL PIPE LEFT WITH TRAP WATER
- SEAL ALL WALL OPENINGS W/ MORTAR OR FIRE CAULKING. BIDDING CONTRACTOR SHALL PROVIDE A SITE FLOW TEST TO BETTER ESTIMATE THE SIZE OF THE FIRE SPRINKLER SYSTEM PRIOR TO BID DATE.
- NO FIRE SPRINKLER PIPING TO RUN OVER ELECTRICAL EQUIPMENT, IT ROOM AND ANY OTHER SYSTEM THAT MAY BE

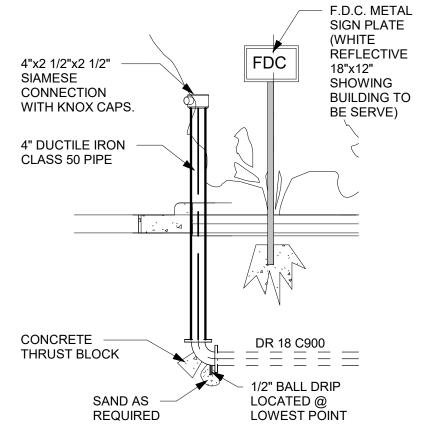
THIS DRAWING IS DIAGRAMMATIC AND SHOULD BE USED AS REFERENCE FOR BIDDING PURPOSES ONLY. THIS DRAWING SHALL NOT BE USE FOR PERMIT OR CONSTRUCTION. CONTRACTOR IS FULLY RESPONSIBLE FOR THE DESIGN OF THE NEW FIRE SPRINKLER SYSTEM. ALL NFPA CODES APPLICABLE

NEEDS TO BE PROVIDED W/ A DRAIN VALVE.





CONCRETE THRUST BLOCK 4 RISER ROOM DETAIL
3/8" = 1'-0"



6 FREE STANDING F.D.C. DETAIL 3/8" = 1'-0"

FIRE PROTECTION KEYED NOTES

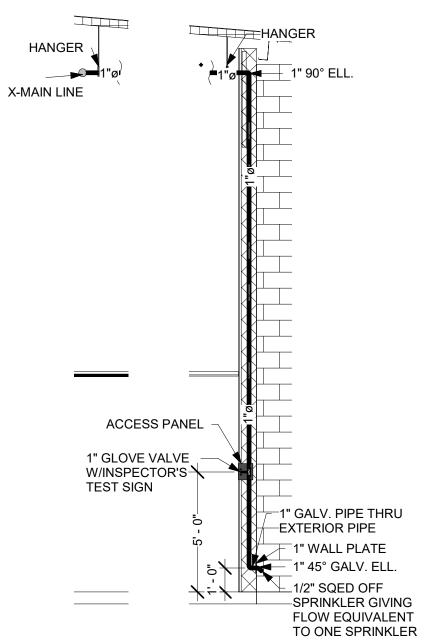
- RUN FIRE MAIN AND FDC LINES BETWEEN 3 AND 4 FEET DEEP. PROVIDE 4 INCHES OF SAND UNDER PIPE. COVER ALL PIPE AND LEAVE JOINTS EXPOSED FOR ENGINEER AND FIRE DEPARTMENT INSPECCTION.
- PROVIDE BACKFLOW PREVENTER. CONTRACTOR COORDINATE EXACT LOCATION.SEE DETAIL #3 ON THIS SHEET.
- PLACE FREE STANDING F.D.C. IN THIS LOCATION. COORDINATE EXACT LOCATION WITH A.H.J. PROVIDE SIGN WITH BUILDING IT SERVES. SEE DETAIL #4 ON THIS SHEET.
- FIRE SPRINKLER SYSTEM RISER SHALL BE PLACED IN THIS ROOM.SEE DETAIL #2 ON THIS SHEET.
- THIS IS A NEW BUILDING FACILITY. PROVIDE A NEW FIRE PROTECTION SYSTEM. COORDINATE WITH ALL OTHER TRADES. SPRINKLER CONTRACTOR SHALL REVIEW ARCHITECTURAL PLANS TO CHECK CEILING TYPES AND DESIGN THE SPRINKLER LAYOUT/SPACING/TYPE/STYLE TO FIT THE RESPECTIVE
- APPLICATION. PROVIDE CONCEALED PENDENT SPRINKLER HEAD WHERE IS A REFLECTING CEILING AND BRASS UPRIGHT AT OPEN CEILING.
- PROVIDE BRASS UPRIGHT SPRINKLER HEADS WITH GUARD. INSPECTOR'S TEST TO CONNECT TO FIRE PROTECTION SYSTEM.REFER TO DETAIL #5. CONTRACTOR COORDINATE WITH ARCHITECTURAL FOR PIPE ROUTE, VALVE LOCATION AND ACCESS. INSPECTOR'S TEST SHALL BE INSIDE A FURR-OUT WITH ACCESS PANEL IF INSPECTOR'S TEST IS LOCATED IN COMMON
- FIRE SPRINKLER LINE TO CONNECT TO MAIN WATER LINE. REFER TO CIVIL PLAN FOR LOCATION AND SIZE OF MAIN WATER LINE. SEE DETAIL #2 ON THIS SHEET.

BACKFLOW PREVENTER - DOUBLE

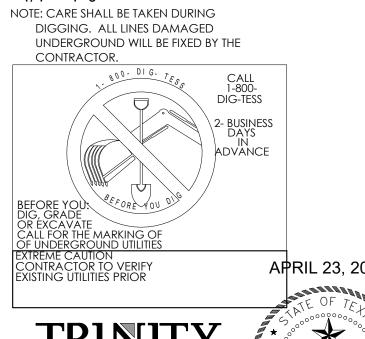
3000 PSI CONCRETE THRUST BLOCK AT EVERY CHANGE IN DIRECCION AS PER NFPA24.

CHECK VALVE ASSEMBLY & SYSTEM SENSOR SUPERVISORY SWITCH OR CHAINED OPEN INSULATED W/ALUMINUM JACKET OR **COATED WITH** THERMAL PAINT FROM WATER MAIN. TO BUILDING RISER. SEE SITE PLAN. SEE DETAIL. CONCRETE THRUST BLOCK

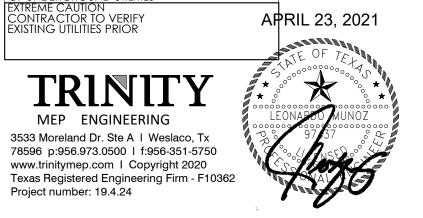
3 BACKFLOW PREVENTER DETAIL



5 TYPICAL INSPECTOR'S TEST DETAIL 1/4" = 1'-0"



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