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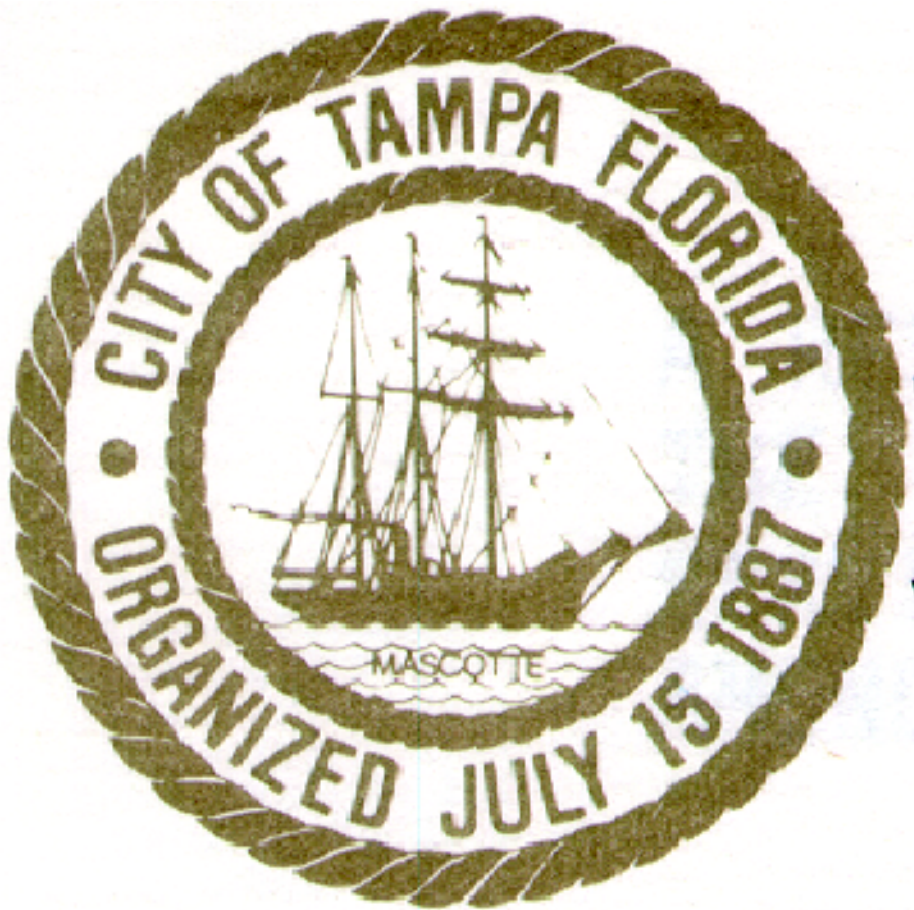
Please Email ALL Questions:
[MailTo:ContractAdministration@TampaGov.net](mailto:ContractAdministration@TampaGov.net)

City of Tampa
Contract Administration Department
306 E. Jackson St. #280A4N
Tampa, FL 33602
(813)274-8456

Addition To New Tampa Recreation Center

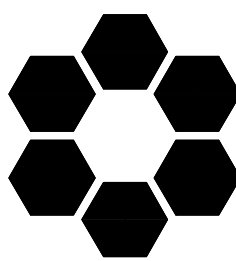
17302 Commerce Park Blvd.
Tampa, FL. 33647

CONTRACT NO. 18-C-40



CONSTRUCTION DOCUMENTS

11-07-18
FGA PROJECT #18015



FleischmanGarcia

ARCHITECTURE • PLANNING • INTERIOR DESIGN

SAFETY HARBOR OFFICE 195 FOURTH AVENUE NORTH SAFETY HARBOR, FLORIDA 34695 PHONE (727) 725-8880 FAX (727) 725-3900	TAMPA OFFICE 324 HYDE PARK AVENUE, SUITE 300 TAMPA, FLORIDA 33606 PHONE (813) 251-4400 FAX (813) 251-1994	SARASOTA OFFICE 5967 CATTLEMEN LANE, SUITE 6 SARASOTA, FLORIDA 34232 PHONE (941) 342-9293 FAX (941) 342-9253
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REGISTRATION NUMBER AA C000123

CIVIL ENGINEER

AURORA CIVIL ENGINEERING

610 E. MORGAN STREET
BRANDON, FL. 33510

813-643-9907

STRUCTURAL ENGINEER

MASTER CONSULTING
ENGINEERS

5523 WEST CYPRESS BLVD.
SUITE 200
TAMPA, FL. 33607

813-287-3600

MECHANICAL ENGINEER

ENGINEERING
PROFESSIONALS, INC.

1720 WEST CLEVELAND STREET
SUITE E
TAMPA, FL. 33606

813-251-6848

ELECTRICAL ENGINEER

GENESIS ENGINEERING
GROUP

2601 CATTLEMEN ROAD
SUITE 501
SARASOTA, FL. 34232
941-444-2189

LANDSCAPE ARCHITECT

EKISTICS DESIGN STUDIO

1202 WEST LINEBAUGH
TAMPA, FL. 33612

813-931-8040

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CIVIL

ISSUED UNDER SEPARATE COVER

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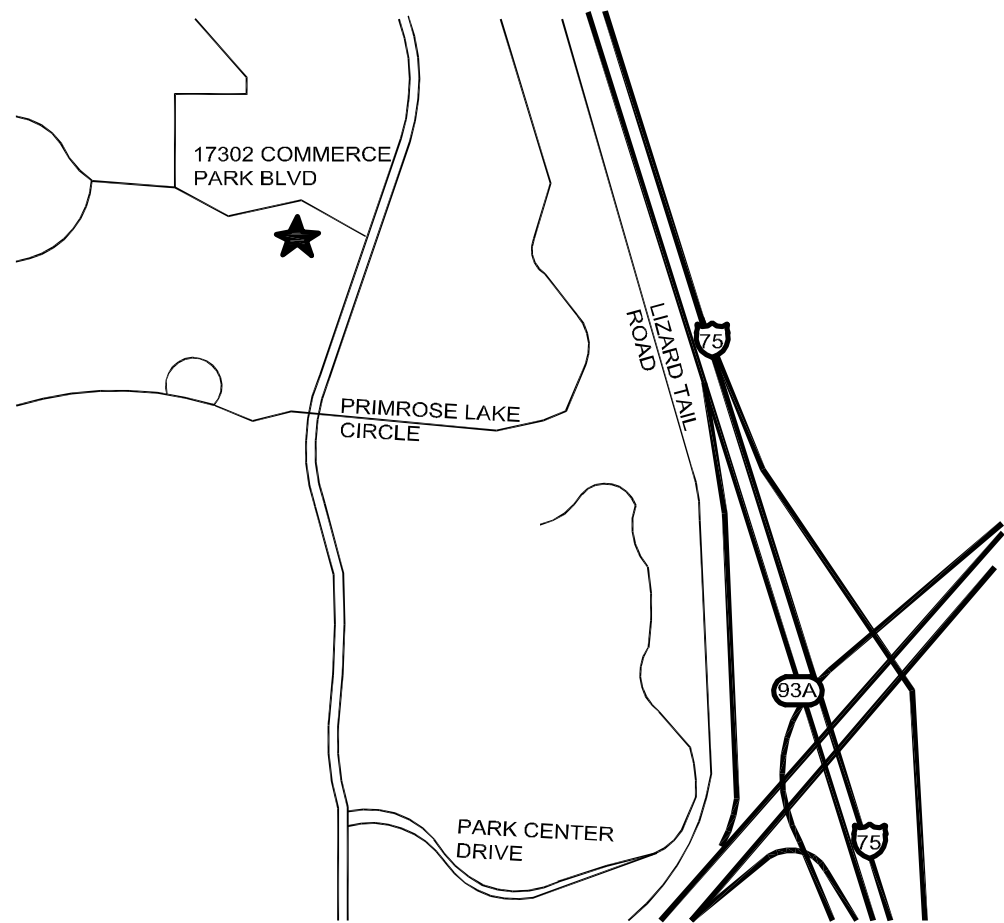
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SITE LOCATION MAP



PROJ#18015 NEW TAMPA RECREATION CENTER
ADDITION
11-07-18

SITE CONSTRUCTION PLANS

FOR

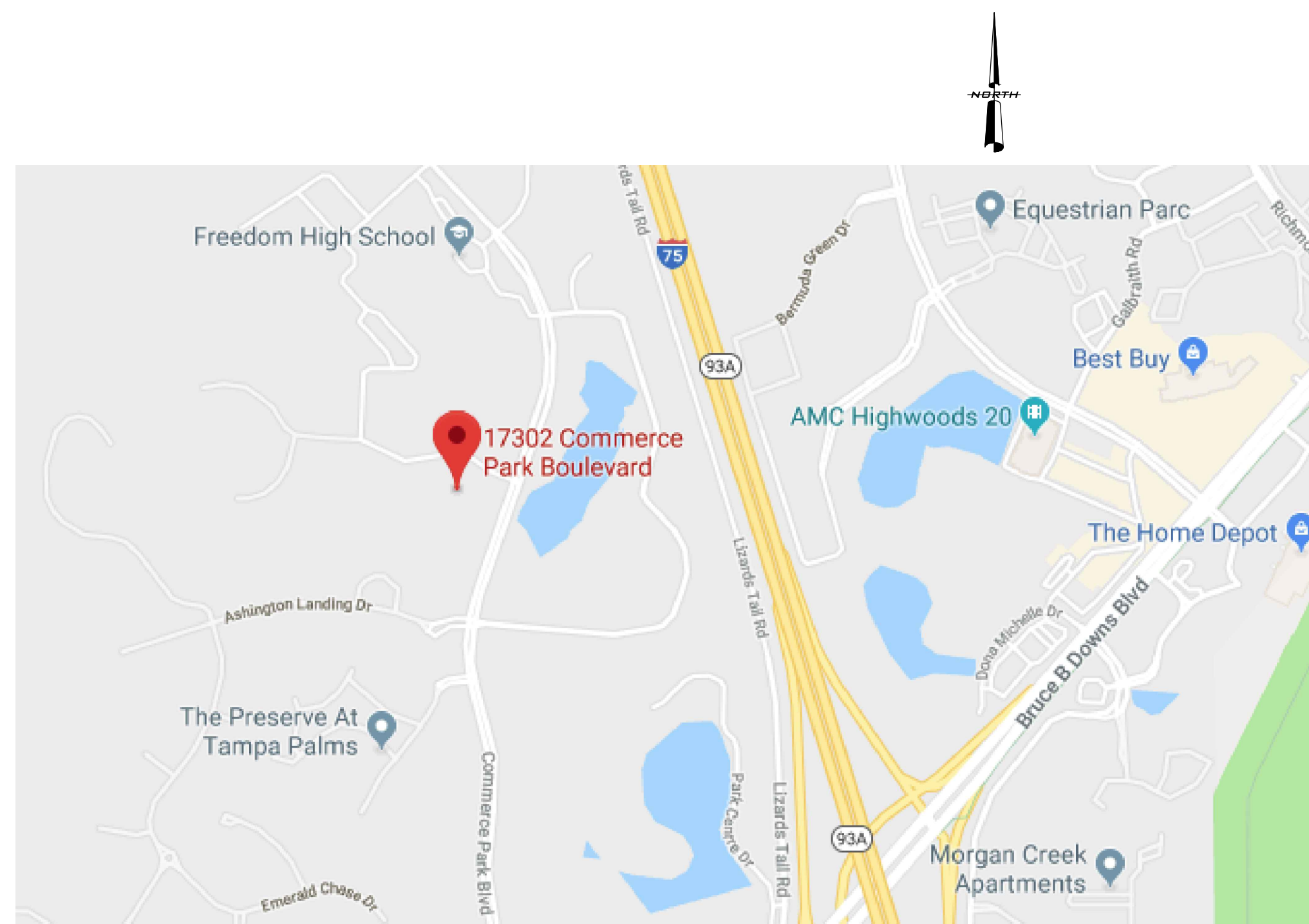
NEW TAMPA REC EXPANSION

17302 COMMERCE PARK

TAMPA, FL

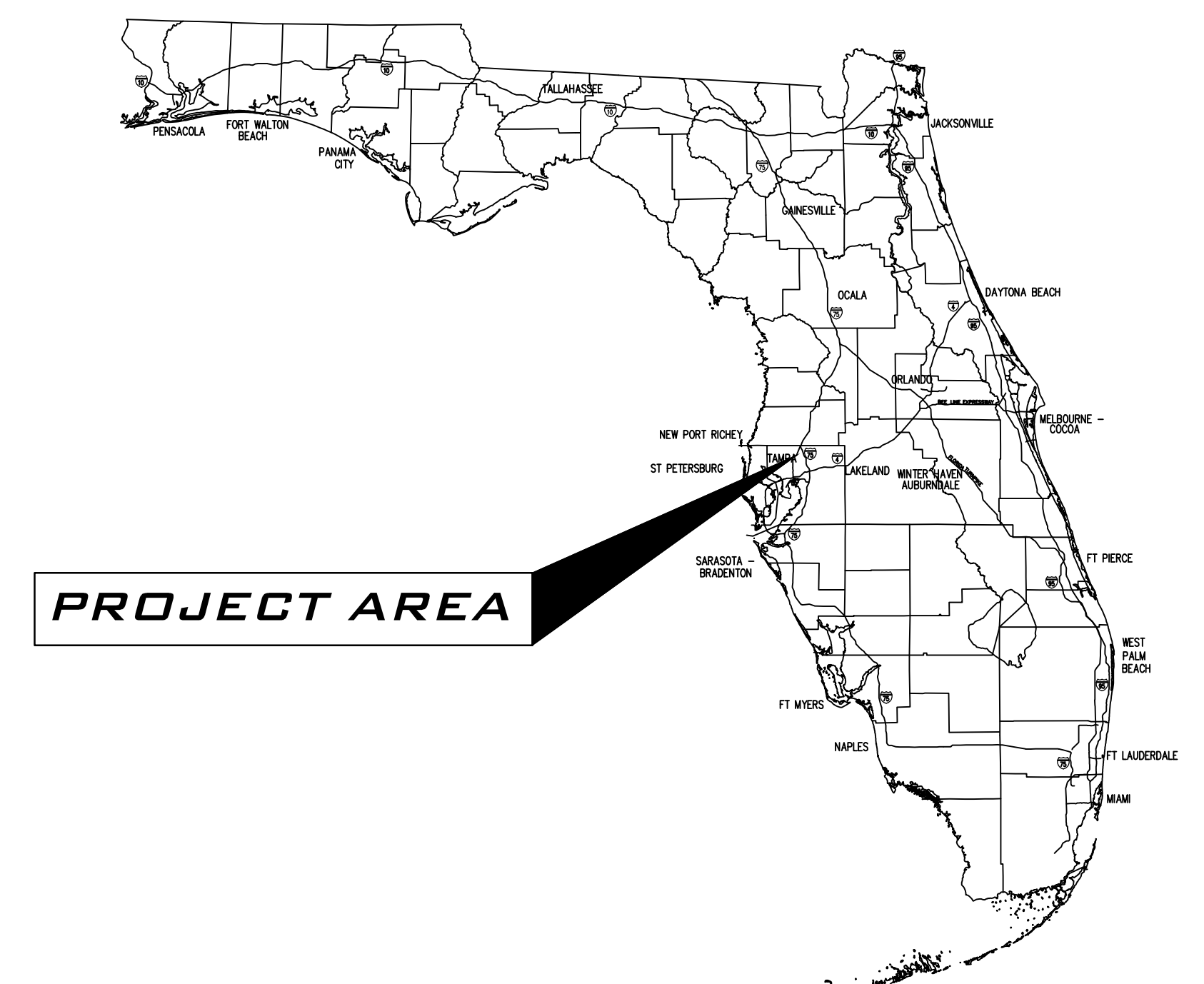
INDEX OF DRAWINGS

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<i>COVER SHEET</i>		<i>LATEST DATE</i>
<i>GENERAL SITE PLAN</i>	<i>C-1</i>	11/28/2018
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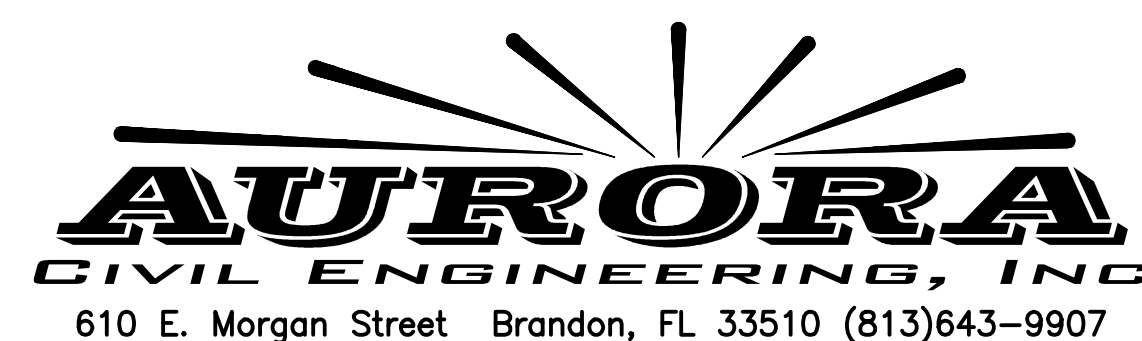
SITE DATA:
ADDRESS: 17302 COMMERCE PARK, TAMPA
PROPERTY ACREAGE: 55.96 AC
PROJECT ACREAGE: 5 AC
PIN: A-15-27-19-ZZZ-000001-20706.2
FOLIO: 033969-0160
FLOODZONE: X PER 12057C0070H EFFECTIVE 8/28/2008

LOCATION MAP



PROJECT AREA

PREPARED BY

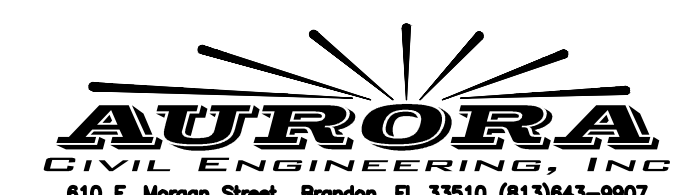
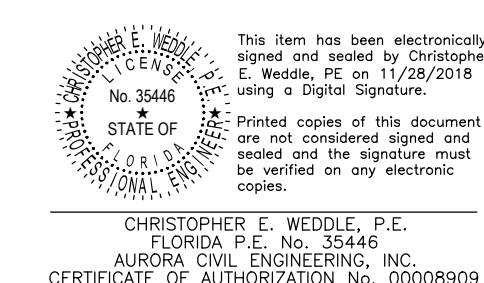


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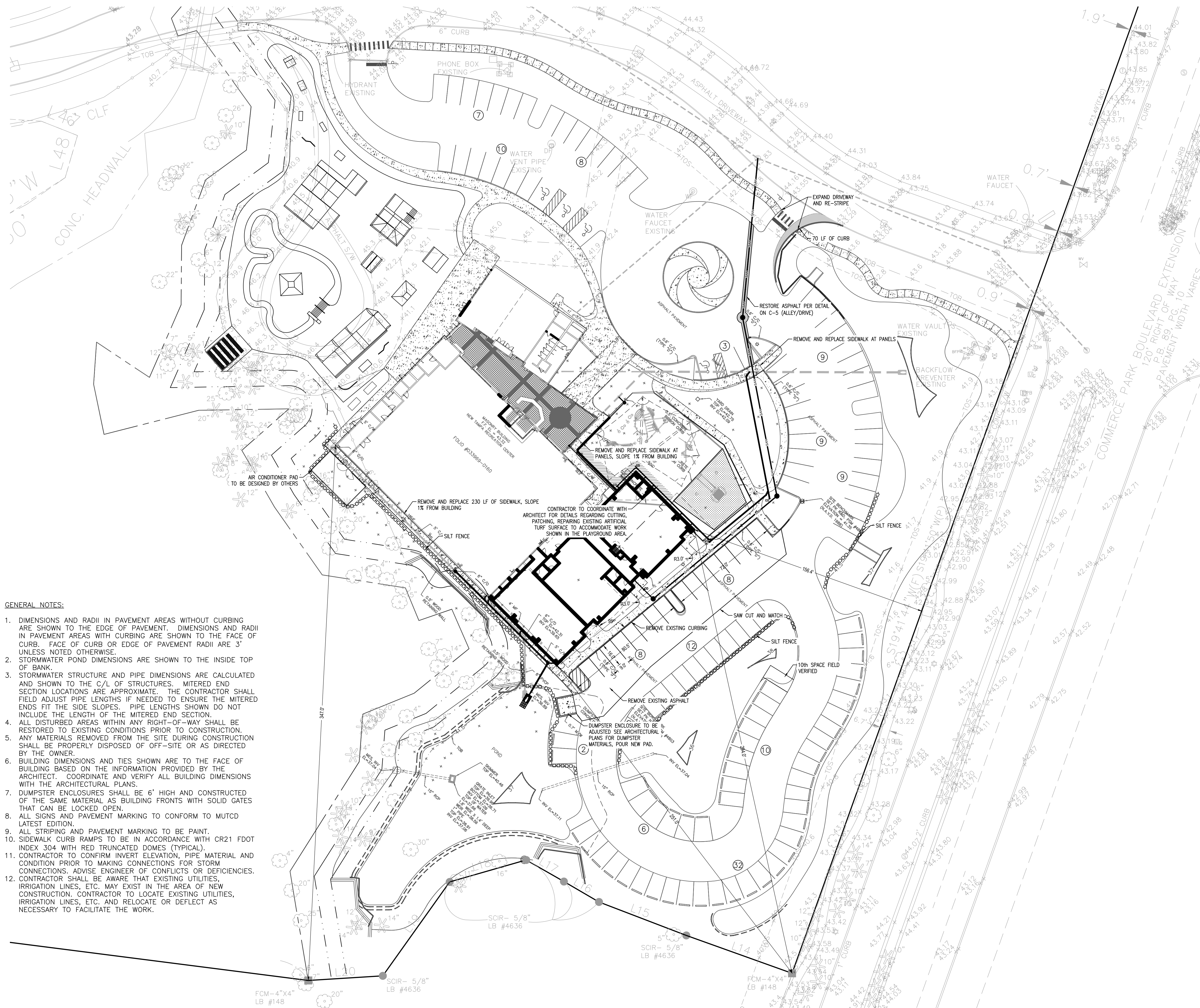
CITY OF TAMPA
306 E. JACKSON ST
TAMPA, FL 33602

NOVEMBER 28TH, 2018

NEW TAMPA REC
EXPANSION

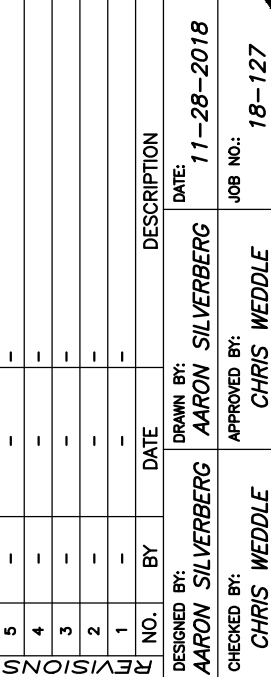


PROJECT 18-127



1. DIMENSIONS AND RADII IN PAVEMENT AREAS WITHOUT CURBING ARE SHOWN TO THE EDGE OF PAVEMENT. DIMENSIONS AND RADII IN PAVEMENT AREAS WITH CURBING ARE SHOWN TO THE FACE OF CURB. FACE OF CURB OR EDGE OF PAVEMENT RADII ARE 3' UNLESS NOTED OTHERWISE.
2. STORMWATER POND DIMENSIONS ARE SHOWN TO THE INSIDE TOP OF BANK.
3. STORMWATER STRUCTURE AND PIPE DIMENSIONS ARE CALCULATED AND SHOWN TO THE C/L OF STRUCTURES. MITERED END SECTION LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD ADJUST PIPE LENGTHS IF NEEDED TO ENSURE THE MITERED ENDS FIT THE SIDE SLOPES. PIPE LENGTHS SHOWN DO NOT INCLUDE THE LENGTH OF THE MITERED END SECTION.
4. ALL DISTURBED AREAS WITHIN ANY RIGHT-OF-WAY SHALL BE RESTORED TO EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
5. ANY MATERIALS REMOVED FROM THE SITE DURING CONSTRUCTION SHALL BE PROPERLY DISPOSED OF OFF-SITE OR AS DIRECTED BY THE OWNER.
6. BUILDING DIMENSIONS AND TIES SHOWN ARE TO THE FACE OF BUILDING BASED ON THE INFORMATION PROVIDED BY THE ARCHITECT. COORDINATE AND VERIFY ALL BUILDING DIMENSIONS WITH THE ARCHITECTURAL PLANS.
7. DUMPSTER ENCLOSURES SHALL BE 6' HIGH AND CONSTRUCTED OF THE SAME MATERIAL AS BUILDING FRONTS WITH SOLID GATES THAT CAN BE LOCKED OPEN.
8. ALL SIGNS AND PAVEMENT MARKING TO CONFORM TO MUTCD LATEST EDITION.
9. ALL STRIPING AND PAVEMENT MARKING TO BE PAINT.
10. SIDEWALK CURB RAMPS TO BE IN ACCORDANCE WITH CR21 FDOT INDEX 304 WITH RED TRUNCATED DOMES (TYPICAL).
11. THE CONTRACTOR SHALL CONFIRM INVERT ELEVATION, PIPE MATERIAL AND CONDITION PRIOR TO MAKING CONNECTIONS FOR STORM CONNECTIONS. ADVISE ENGINEER OF CONFLICTS OR DEFICIENCIES.
12. CONTRACTOR SHALL BE AWARE THAT EXISTING UTILITIES, IRRIGATION LINES, ETC. MAY EXIST IN THE AREA OF NEW CONSTRUCTION. CONTRACTOR TO LOCATE EXISTING UTILITIES, IRRIGATION LINES, ETC. AND RELOCATE OR DEFLECT AS NECESSARY TO FACILITATE THE WORK.

1. THE SITE SHALL COMPLY WITH CHAPTER 28- SOLID WASTE.
2. THE SCREENING ENCLOSURE SHALL BE A MINIMUM OF 6' IN HEIGHT AND MADE COMPATIBLE WITH THE MATERIALS ON THE FRONT BUILDING WALL OF THE MAIN BUILDING. THE MINIMUM INTERIOR DIMENSIONS FOR EACH DUMPSTER ENCLOSURE SHALL BE 10' WIDE X 10' DEEP WITH A MINIMUM 10' MINIMUM DOOR OPENING WHICH IS FREE AND CLEAR FROM ANY OBSTRUCTIONS.
3. THE OPENING DOORS SHALL BE CONSTRUCTED OF SOLID/OPAQUE MATERIAL AND WILL HAVE LOCKING PINS TO HOLD THEM OPEN DURING SERVICE. THE DOORS SHALL HAVE THE SAME MINIMUM FREE AND CLEAR OPENING WIDTH AS THE ENCLOSURE (MIN.10' WIDE OPENING). IN ORDER NOT TO REDUCE THE OPENING WIDTH, ALL HARDWARE FOR THE DOORS SHALL BE ATTACHED TO THE OUTSIDE/FACE OF THE ENCLOSURE OR THE ENCLOSURE SHALL BE WIDENED TO ALLOW FOR THE MINIMUM DOOR OPENING.
4. A MINIMUM OF (2) SAFETY BOLLARDS SHALL BE INSTALLED WITHIN 2' OF THE REAR INTERIOR WALL OF ALL DUMPSTER, COMPACTOR AND ROLL-OFF ENCLOSURES. (TWO BOLLARDS FOR EACH DUMPSTER)
5. A GRADE LEVEL CONCRETE SLAB AT A MINIMUM 6" THICK/4,000 POUNDS PER SQUARE INCH SHALL BE PLACED FOR THE DUMPSTER TO BE SET ON.
6. A MINIMUM 26' VERTICAL CLEARANCE SHALL BE PROVIDED OVER THE DUMPSTER
7. AND OVER THE SERVICE VEHICLE AT THE POINT OF COLLECTION.
8. ALL SOLID WASTE VEHICLE DRIVE AISLES AND SOLID WASTE VEHICLE MANEUVERING AREAS (OUTSIDE OF THE COLLECTION AREAS) SHALL PROVIDE A MINIMUM 16' CLEARANCE FROM FINISHED GRADE LEVEL TO LOWEST PART OF OVERHEAD STRUCTURE/TREE CANOPY.
9. ALL SOLID WASTE VEHICLE DRIVE AISLES AND SOLID WASTE VEHICLE MANEUVERING AREAS SHALL BE CONSTRUCTED TO CURRENT STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.



NEW TAMPA RECREATION ADDITION



AURORA
CIVIL ENGINEERING, INC.
610 E. Morgan Street Brandon, FL 33510 (813)643-9907

I. MISCELLANEOUS
A. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS SPECIFIED BY THE VARIOUS GOVERNMENTAL AGENCIES, THE ENGINEER, AND THE ARCHITECT. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE ANY NECESSARY INSPECTIONS ACCORDING TO AGENCY INSTRUCTIONS.
B. ALL SPECIFICATIONS AND DOCUMENTS REFERRED TO IN THESE PLANS SHALL BE OF THE LATEST REVISION.
C. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.
D. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO THE OWNER'S ENGINEER FOR APPROVALS. FAILURE TO OBTAIN APPROVALS BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
E. WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON SITE BY OTHER CONTRACTORS AND UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES WHERE NECESSARY, WITH OTHER CONTRACTORS AND UTILITY COMPANIES.
F. THE WATER, SANITARY SEWER, AND STORM DRAINAGE FACILITIES ARE SUBJECT TO THE REVIEW AND APPROVAL OF THE CITY OF TAMPA AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN THE REQUIRED PERMITS TO PERFORM WORK IN THE PUBLIC RIGHTS-OF-WAYS.
G. IT WILL BE NECESSARY TO EXAMINE, COORDINATE AND ADJUST ACCORDING TO THE PROPOSED LOCATIONS OF THE VARIOUS COMPONENTS OF THE SITE UTILITIES. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT COORDINATION DRAWINGS SHOWING PIPE SIZES, STRUCTURES, AND ELEVATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SCHEDULING AND COORDINATION OF ALL THE UNDERGROUND WORK ASSOCIATED WITH THIS PROJECT.
H. ALL MECHANICAL EQUIPMENT SHALL BE SCREENED FROM VIEW, WHEN POSSIBLE.

II. SAFETY
A. DURING THE CONSTRUCTION AND MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS PERSONNEL.
B. THE CONTRACTOR'S MAINTENANCE OF TRAFFIC PLAN MUST BE SUBMITTED TO AND APPROVED BY THE CITY OF TAMPA PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES.
C. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA.
D. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ITS OWN SAFETY EQUIPMENT IN ACCORDANCE WITH ITS HEALTH AND SAFETY PROGRAM REQUIREMENTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING ITS EMPLOYEES AND SUB CONTRACTORS WITH ADEQUATE INFORMATION AND TRAINING TO ENSURE THAT ALL EMPLOYEES, SUB CONTRACTORS, AND SUB CONTRACTORS EMPLOYEES COMPLY WITH ALL APPLICABLE REQUIREMENTS. THE CONTRACTOR SHALL REMAIN IN COMPLIANCE WITH ALL OSHA OR OCCUPATIONAL REGULATIONS AS WELL AS THE ENVIRONMENTAL PROTECTION LAWS.
THE FOLLOWING IS NOT TO BE PERCEIVED AS THE ENTIRE SAFETY PROGRAM BUT JUST AS BASIC REQUIREMENTS.

E. ALL EXCAVATIONS BY THE THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF LABOR'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION RULES AND REGULATIONS. PARTICULAR ATTENTION MUST BE PAID TO THE CONSTRUCTION STANDARDS FOR EXCAVATIONS, 29 CFR PART 1926, SUBPART P.
F. THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF "THE STATE OF FLORIDA, MANUAL ON TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS" SHALL BE FOLLOWED IN THE DESIGN APPLICATION, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND WORKMEN FROM HAZARDS WITHIN THE PROJECT LIMITS.
G. ALL TRAFFIC CONTROL MARKINGS AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.
H. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS.
I. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE UTILITY COMPANIES PRIOR TO CONSTRUCTION TO OBTAIN FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES. CALL SUNSHINE ONE AT (800)-432-4770.
J. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR CALLED FOR IN THIS CONTRACT.
K. ALL UNDERGROUND UTILITIES MUST BE IN PLACE AND TESTED OR INSPECTED AS REQUIRED PRIOR TO BASE AND PAVEMENT CONSTRUCTION.

III. SITE PLAN AND COORDINATE CONTROL
A. ARCHITECTURAL BUILDING PLANS PREPARED BY: FLEISCHMAN GARCIA ARCHITECTURE
B. SITE PLAN PREPARED BY AURORA CIVIL BASED ON CONCEPTUAL LAYOUT FURNISHED BY FLEISCHMAN GARCIA ARCHITECTURE
C. STRUCTURAL PLANS PREPARED BY: OTHERS
D. ELECTRICAL AND MECHANICAL PLANS PREPARED BY: OTHERS
E. SUBSURFACE INVESTIGATION PREPARED BY: OTHERS
F. SURVEYS PREPARED BY: W.C. SHERRILL AND COMPANY, LLC
G. LANDSCAPE PLANS PREPARED BY: OTHERS
H. ALL POINTS AND MONUMENTS SHALL BE SURVEYED UPON MOBILIZATION TO VERIFY THEIR ACCURACY. ANY DISCREPANCIES DISCOVERED MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING.
I. MONUMENTS AND OTHER SURVEY CONTROL POINTS SHALL BE PROTECTED FROM DAMAGE AND DISTURBANCE. IF ANY CONTROL POINTS ARE DAMAGED OR DISTURBED, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND REPLACE THE CONTROL POINTS TO THEIR ORIGINAL CONDITION AT HIS OWN EXPENSE.
J. REFER TO THE GRADING SHEET AND/OR THE TOPOGRAPHIC SURVEYS FOR NOTES REGARDING THE BASIS OF VERTICAL DATUM.
K. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATION, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING THIS WORK PRIOR TO CONSTRUCTION.
L. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH THE OWNER'S ENGINEER WITH COMPLETE "AS-BUILT" INFORMATION CERTIFIED BY A REGISTERED LAND SURVEYOR. THE "AS-BUILT" INFORMATION SHALL BE FURNISHED TO THE ENGINEER IN A LEGIBLE FORMAT MARKED ON FULL SIZE PRINTS OF THE APPROPRIATE PLAN SHEETS, OR IN A LEGIBLE FORMAT ON LETTER OR LEGAL SIZE SKETCHES. THE ENGINEER MUST BE ABLE TO COMPILE THIS INFORMATION ONTO THE ORIGINAL PLAN DOCUMENTS FOR SUBMITTAL TO THE APPROPRIATE AGENCIES FOR FINAL APPROVALS.

THE "AS-BUILT" INFORMATION SHALL CLEARLY AND ACCURATELY REPRESENT ALL CONSTRUCTED ITEMS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
1. ELEVATIONS OF ALL STORM SEWER AND SANITARY SEWER STRUCTURE BOTTOMS, TOPS, AND INVERTS.
2. FIELD MEASURED LENGTHS OF PIPES FOR ALL INSTALLED UTILITIES, CONDUITS, SLEEVES, ETC.
3. LOCATIONS OF ALL STRUCTURES, PIPES, CONDUITS, ETC.
4. CALCULATED SLOPE OF ALL SANITARY SEWER AND STORM SEWER LINES.
5. HORIZONTAL AND VERTICAL CONTROL OF ALL WATER MAIN FITTINGS AND APPURTENANCES, AND HORIZONTAL AND VERTICAL CONTROL OF THE TOPS OF WATER MAINS AT ALL CROSSINGS, AND A MINIMUM OF EVERY 200 LINEAL FEET OF PIPE.
6. HORIZONTAL AND VERTICAL CONTROL OF ALL TOP OF BANKS, TOE OF SLOPES, ALL GRADE BREAKS, BUILDINGS, PONDS, DITCHES, BRIDGES, LITTORAL ZONES, ETC.
7. HORIZONTAL AND VERTICAL CONTROL ELEVATIONS OF ALL ELEMENTS OF SANITARY SEWER LIFT STATIONS INCLUDING TOP AND BOTTOM SLABS, INVERTS, ELEVATIONS AT WHICH THE FLOAT SWITCHES ENGAGE, ALL VALVES AND ASSOCIATED APPURTENANCES.
NO ENGINEER'S CERTIFICATE CAN BE SUBMITTED TO OBTAIN A CERTIFICATE OF OCCUPANCY UNTIL THE "AS-BUILT" INFORMATION IS RECEIVED, REVIEWED, AND APPROVED BY THE ENGINEER AND THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL ALLOW THE ENGINEER A MINIMUM OF FOUR WEEKS UPON RECEIPT TO COMPLETE THE REVIEW OF THE "AS-BUILT" INFORMATION AND COMPLETE THE NECESSARY DRAWINGS FOR SUBMITTAL TO THE APPROPRIATE AGENCIES.
M. ALL DIMENSIONS SHOWN ON THE PLANS ARE TO FACE OF BUILDING, FACE OF CURBING, OR CENTERLINES OF STRUCTURES, UNLESS OTHERWISE NOTED ON THE PLANS.

IV. CLEARING / DEMOLITION
A. PRIOR TO ANY SITE CLEARING, ALL TREES SHOWN TO REMAIN AS INDICATED ON THE CONSTRUCTION AND LANDSCAPE PLANS SHALL BE PROTECTED IN ACCORDANCE WITH LOCAL TREE ORDINANCES AS WELL AS DETAILS AND NOTES PROVIDED IN THIS PLAN SET. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THESE TREES IN GOOD CONDITION. NO TREE SHOWING TO REMAIN SHALL BE REMOVED WITHOUT WRITTEN APPROVAL FROM THE CITY OF TAMPA.
B. THE CONTRACTOR IS TO PREPARE THE SITE PRIOR TO BEGINNING ACTUAL CONSTRUCTION IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. COPIES OF THE SOILS REPORT ARE AVAILABLE THROUGH THE OWNER. QUESTIONS REGARDING SITE PREPARATION REQUIREMENTS DESCRIBED IN THE SOILS REPORT ARE TO BE DIRECTED TO THE SOILS TESTING COMPANY.
C. THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. DISTURBED AREAS WILL BE SEEDED, MULCHED, SODDED OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIALS IMMEDIATELY FOLLOWING CONSTRUCTION.
D. ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATORY AGENCY REQUIREMENTS, OR AS DIRECTED BY THE OWNER.

V. PAVING AND GRADING
A. ALL DELETIOUS SUBSURFACE MATERIAL, (I.E. MUCK, PEAT, BURIED DEBRIS), IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER, THE OWNER'S ENGINEER, OR THE OWNER'S SOIL TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY OWNER. EXCAVATED AREAS TO BE BACKFILLED WITH APPROPRIATE MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FROM THE SITE.
B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. DEWATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED.
C. ALL NECESSARY FILL AND EMBANKMENT THAT IS PLACED DURING CONSTRUCTION SHALL CONSIST OF MATERIAL SPECIFIED BY THE OWNER'S SOIL TESTING COMPANY OR ENGINEER AND BE PLACED AND COMPACTED ACCORDING TO THESE PLANS OR THE REFERENCED SOIL REPORT.
D. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADES UNLESS OTHERWISE NOTED ON PLANS. FINISHED GRADES OR CONTOURS IN SODDED AREAS REPRESENT FINISH GRADES AFTER PLACEMENT OF SOD.
E. THE CONTRACTOR SHALL TRIM, TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
F. CURBING WILL BE PLACED AT THE EDGE OF ALL PAVEMENT, WHERE SHOWN ON THE PLANS.
G. REFER TO THE LATEST EDITION OF F.D.O.T. "ROADWAY AND TRAFFIC DESIGN STANDARDS" FOR DETAILS AND SPECIFICATIONS OF ALL F.D.O.T. CURBING AND GUTTERS CALLED FOR IN THESE PLANS. REFER TO DETAILS IN THESE PLANS FOR MODIFIED CURB DETAILS.
H. CONTRACTOR TO PROVIDE 1/2" TO 1" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AT ABUTMENT OF CONCRETE AND OTHER MATERIALS, (BUILDINGS, OTHER PLACED CONCRETE, ETC...).
I. ALL PAVEMENT MARKINGS WITHIN RIGHT-OF-WAY SHALL BE MADE WITH PERMANENT THERMOPLASTIC AND SHALL CONFORM TO F.D.O.T. STANDARD INDEX NO. 17346, SHEETS 1-7. PARKING STALL STRIPING TO BE 4" WIDE PAINTED STRIPES. ON-SITE STRIPING COLORS AS SHOWN ON THESE PLANS.
J. CONTRACTOR IS TO PROVIDE EROSION CONTROL AND SEDIMENT BARRIERS, (HAY BALES AND/OR SILTATION CURTAIN), TO PREVENT SILTATION OF ADJACENT PROPERTIES, STREETS, STORM SEWERS AND WATERWAYS. IN ADDITION, CONTRACTOR SHALL PLACE STRAW, MULCH, OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT THE SITE. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC, THE CONTRACTOR IS TO REMOVE SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES.

K. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AFFECTED AREAS USING SPRINKLING, IRRIGATION OR OTHER ACCEPTABLE METHODS.
L. THE CONTRACTOR WILL STABILIZE BY SEED AND MULCH, SOD OR OTHER APPROVED MATERIALS ANY DISTURBED AREAS WITHIN ONE WEEK FOLLOWING CONSTRUCTION OF THE UTILITY SYSTEMS AND PAVEMENT AREAS. THE CONTRACTOR SHALL MAINTAIN SUCH AREAS UNTIL FINAL ACCEPTANCE BY OWNER.
M. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE SOILS TESTING. TESTS WILL BE REQUIRED PURSUANT WITH THE TESTING SCHEDULE LOCATED ON TABLE SC-1 ON THIS SHEET. UPON COMPLETION OF THE WORK, THE SOILS ENGINEER WILL SUBMIT CERTIFICATIONS TO THE OWNER'S ENGINEER STATING THAT ALL REQUIREMENTS HAVE BEEN MET.
N. A QUALIFIED TESTING LABORATORY SELECTED BY THE OWNER SHALL PERFORM ALL TESTING NECESSARY TO ASSURE COMPLIANCE OF THE IN PLACE MATERIALS AS REQUIRED BY THESE PLANS AND THE VARIOUS AGENCIES. SHOULD ANY RETESTING BE REQUIRED DUE TO THE FAILURE OF ANY TESTS TO MEET THE REQUIREMENTS, THE CONTRACTOR WILL BEAR ALL COSTS OF SAID RETESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING ALL TESTING.
O. MIXING IN PLACE OF SOIL CEMENT WILL NOT BE ALLOWED.

VI. DRAINAGE
A. STANDARD INDEXES REFER TO THE LATEST EDITION OF F.D.O.T. "ROADWAY AND TRAFFIC DESIGN STANDARDS".
B. ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE CLASS III, (ASTM C-76) UNLESS OTHERWISE NOTED ON PLANS. ALL DRAINAGE STRUCTURES SHALL BE IN ACCORDANCE WITH F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS UNLESS OTHERWISE NOTED ON PLANS.

C. PIPE LENGTHS SHOWN ARE APPROXIMATE AND TO THE CENTER OF DRAINAGE STRUCTURES WITH THE EXCEPTION OF MITERED AND FIRED END SECTIONS WHICH ARE NOT INCLUDED IN LENGTHS. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES SUBMITTED FOR BID.
D. ALL DRAINAGE STRUCTURE GRATES AND COVERS SHALL BE TRAFFIC RATED FOR H-20 LOADINGS.
E. ALL STORM DRAINAGE PIPING SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE CITY OF TAMPA 48 HOURS IN ADVANCE TO SCHEDULE INSPECTIONS.
F. THE CONTRACTOR SHALL MAINTAIN AND PROTECT THE STORM DRAINAGE SYSTEM FROM MUD, DIRT, DEBRIS, ETC., UNTIL FINAL ACCEPTANCE OF THE PROJECT. THE CONTRACTOR MAY BE REQUIRED TO RECLEAN PIPES AND INLETS FOR THESE PURPOSES.

VII. SANITARY SEWER
A. SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS SHOULD ALWAYS CROSS UNDER WATER MAINS. SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE WHENEVER POSSIBLE.
WHERE SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE, BOTH THE SEWER AND WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING. (DIP IS NOT REQUIRED FOR STORM SEWERS IF IT IS NOT AVAILABLE IN THE SIZE PROPOSED). SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE LEAK FREE AND MECHANICALLY RESTRAINED.
ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING).
WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE, THE NEW PIPE SHALL BE CONSTRUCTED OF DIP AND THE CROSSING SHALL BE ARRANGED TO MEET THE REQUIREMENTS ABOVE.
B. A MINIMUM 10 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.
IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.
WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES IN PARALLEL INSTALLATIONS, THE SEWER OR FORCE MAIN SHALL BE CONSTRUCTED OF DIP (IF AVAILABLE IN THE SIZE PROPOSED) WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM THE JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).

C. ALL SANITARY SEWER MAINS, LATERALS, AND FORCE MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER.
D. ALL ON SITE PVC GRAVITY SANITARY SEWER PIPE SHALL BE MADE OF MATERIAL HAVING A CELL CLASSIFICATION OF 12454 B, 12454 C, OR 13354 B AS DEFINED IN ASTM-1784 AND CONFORM TO THE REQUIREMENTS OF SDR 26. ELASTOMERIC GASKET JOINTS SHALL BE UTILIZED.
E. ALL ON SITE DUCTILE IRON PIPE SHALL BE CLASS 52 AND SHALL RECEIVE INTERIOR AND EXTERIOR BITUMINOUS COATING IN ACCORDANCE WITH ANSI A 21.6, A 21.8, OR A 21.51.
F. POINTS OF CONNECTION FOR THE SANITARY SEWER LINES ARE TO BE COORDINATED WITH THE BUILDING PLUMBING PLANS. SANITARY SEWER CONNECTION LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE.
G. ALL SANITARY SEWER WORK SHALL CONFORM WITH APPLICABLE STANDARDS AND SPECIFICATIONS FOR THE CITY OF TAMPA.
H. PRIOR TO COMMENCING WORK WHICH REQUIRES CONNECTING NEW SANITARY SEWER LINES TO EXISTING LINES OR APPURTENANCES, THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES NEAR THE POINT OF CONNECTION AND NOTIFY THE OWNER'S ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITH DESIGN INFORMATION SHOWN IN THESE PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE CITY OF TAMPA AT LEAST 48 HOURS IN ADVANCE OF SCHEDULED WORK.
I. ALL GRAVITY SEWER PIPING SHALL BE SUBJECT TO A VIDEO AND VISUAL INSPECTION BY THE OWNER'S ENGINEER AND THE CITY OF TAMPA PRIOR TO PLACEMENT OF BASE AND PAVING AND AGAIN PRIOR TO OBTAINING CERTIFICATE OF OCCUPANCY. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTIONS.
J. THE CONTRACTOR SHALL PERFORM AT HIS OWN EXPENSE AN INFILTRATION OR EXFILTRATION TEST, A TELEVISION INSPECTION, AND A MANDREL (GO, NO GO) TEST ON ALL GRAVITY SEWERS IN ACCORDANCE WITH THE ENGINEER'S REQUIREMENTS AND THE REGULATORY AGENCY HAVING JURISDICTION. SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER OF RECORD AND SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL. COORDINATION OF TESTING AND NOTIFICATION OF ALL PARTIES IS THE CONTRACTOR'S RESPONSIBILITY.

VIII. WATER DISTRIBUTION
A. SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS SHOULD ALWAYS CROSS UNDER WATER MAINS. SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE WHENEVER POSSIBLE.
WHERE SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE, BOTH THE SEWER AND WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING. (DIP IS NOT REQUIRED FOR STORM SEWERS IF IT IS NOT AVAILABLE IN THE SIZE PROPOSED). SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE LEAK FREE AND MECHANICALLY RESTRAINED.
ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING).
WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE, THE NEW PIPE SHALL BE CONSTRUCTED OF DIP AND THE CROSSING SHALL BE ARRANGED TO MEET THE REQUIREMENTS ABOVE.
B. A MINIMUM 10 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.
IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.

WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SEWER OR FORCE MAIN SHALL BE CONSTRUCTED OF DIP (IF AVAILABLE IN THE SIZE PROPOSED) WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM THE JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).
C. ALL WATER MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER.

D. ALL WATER SYSTEM WORK SHALL CONFORM WITH CITY OF TAMPA WATER DEPARTMENT STANDARDS.
E. CONFLICTS BETWEEN WATER AND STORM OR SANITARY SEWER ARE TO BE RESOLVED BY ADJUSTING THE WATER LINES AS NECESSARY.
F. ALL ON SITE PVC WATER MAINS 4 INCHES THROUGH 12 INCHES SHALL BE IN ACCORDANCE WITH AWWA C-900 AND SHALL BE CLASS 200 DR 14. ALL ON SITE PVC WATER MAINS 2 INCHES TO 3 INCHES SHALL BE CLASS 200 AND MEET REQUIREMENTS OF SDR 21 IN ACCORDANCE WITH ASTM D-2241.
G. ALL DUCTILE IRON PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANSI STANDARD A21.51, MINIMUM CLASS 50. JOINTS FOR DUCTILE IRON PIPE SHALL BE MECHANICAL OR PUSH-ON JOINTS. PIPE SHALL HAVE AN EXTERIOR BITUMINOUS COATING IN ACCORDANCE WITH ANSI A21.51. PIPE INTERIOR SHALL HAVE A CEMENT MORTAR LINING WITH AN ASPHALTIC SEAL COAT CONFORMING TO AWWA/ANSI C104/A21.4. THE WEIGHT AND CLASS DESIGNATION SHALL BE PAINTED IN WHITE ON THE EXTERIOR SURFACE OF ALL PIPES AND FITTINGS. MANUFACTURER'S CODE OR SERIAL NUMBER SHALL BE PROVIDED ON THE BELL OF EACH PIPE JOINT.
H. ALL DUCTILE FITTINGS SHALL BE MECHANICAL JOINT WITH A MINIMUM PRESSURE RATING OF 250 PSI AND SHALL CONFORM TO THE REQUIREMENTS OF ANSI/AWWA A21.10/C110. ALL FITTINGS SHALL BE COATED AND LINED AS SPECIFIED ABOVE FOR DUCTILE IRON PIPE.
I. THE CONTRACTOR IS TO INSTALL TEMPORARY BLOWOFFS AT THE END OF WATER SERVICE LATERALS TO BUILDINGS TO ASSURE ADEQUATE FLUSHING AND DISINFECTION.
J. THRUST BLOCKING SHALL BE PROVIDED AT ALL FITTINGS AND HYDRANTS AS SHOWN ON DETAILS. ALL JOINTS SHALL BE RESTRAINT JOINT FITTINGS.
K. POINTS OF CONNECTION OF THE EXTERNAL WATER LINES ARE TO COINCIDE WITH THE BUILDING PLUMBING AS SHOWN ON THE BUILDING PLUMBING PLANS. CONNECTION LOCATIONS SHOWN ARE APPROXIMATE.
L. FIRE LINES TO BUILDINGS WITH FIRE SPRINKLER SYSTEMS SHALL BE INSTALLED BY A CONTRACTOR DULY LICENSED BY THE STATE FIRE MARSHAL'S OFFICE. THE CONTRACTOR SHALL VERIFY REQUIREMENTS PRIOR TO CONSTRUCTION.
M. ALL COMPONENTS OF THE WATER SYSTEM, INCLUDING FITTINGS, HYDRANTS, CONNECTIONS, AND VALVES SHALL REMAIN UNCOVERED UNTIL PROPERLY INSPECTED AND ACCEPTED BY THE OWNER'S ENGINEER AND THE CITY OF TAMPA UTILITY DEPARTMENT SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY THE OWNER'S ENGINEER AND THE CITY OF TAMPA INSPECTORS 72 HOURS IN ADVANCE OF PERFORMING TESTS.
N. THE CONTRACTOR SHALL CONTRACT WITH A QUALIFIED LABORATORY TO PERFORM CHLORINATION AND BACTERIOLOGICAL SAMPLING. COPIES OF ALL BACTERIOLOGICAL TESTS TO BE SUBMITTED TO THE OWNER'S ENGINEER.
O. WATER MAIN SHALL HAVE SUITABLE MAGNETIC LOCATOR TAPE BURIED OVER THE WATER MAIN.

IX. EROSION/TURBIDITY CONTROL
A. THE INSTALLATION OF TEMPORARY EROSION CONTROL BARRIERS SHALL BE COORDINATED WITH THE CONSTRUCTION OF THE PERMANENT EROSION CONTROL FEATURES TO THE EXTENT NECESSARY TO ASSURE ECONOMICAL, EFFECTIVE AND CONTINUOUS CONTROL OF EROSION AND WATER POLLUTION THROUGHOUT THE LIFE OF THE CONSTRUCTION PHASE.
B. THE TYPE OF EROSION CONTROL BARRIERS USED SHALL BE GOVERNED BY THE NATURE OF THE CONSTRUCTION OPERATION AND SOIL TYPE THAT WILL BE EXPOSED. SILTY AND CLAYEY MATERIAL USUALLY REQUIRE SOLID SEDIMENT BARRIERS TO PREVENT TURBID WATER DISCHARGE WHILE SANDY MATERIAL MAY NEED ONLY SILT SCREENS OR HAY BALES TO PREVENT EROSION. FLOATING TURBIDITY CURTAINS SHALL BE USED IN OPEN WATER SITUATIONS. DIVERSION DITCHES OR SWALES MAY BE REQUIRED TO PREVENT TURBID STORMWATER RUNOFF FROM BEING DISCHARGED INTO WETLAND OR OTHER WATER BODIES. IT MAY BE NECESSARY TO EMPLOY A COMBINATION OF BARRIERS, DITCHES AND OTHER EROSION/TURBIDITY CONTROL MEASURES IF CONDITIONS WARRANT.
C. CONSTRUCTION OPERATIONS IN OR ADJACENT TO WETLANDS SHALL BE RESTRICTED TO THOSE AREAS IDENTIFIED IN THE PLANS AND IN THE SPECIFICATIONS.

SC-1 TESTING SCHEDULE

ITEM	TEST	TEST FREQUENCY
BUILDING PADS	IN ACCORDANCE WITH GEOTECHNICAL REPORT	
EMBANKMENT	OPTIMUM MOISTURE/MAXIMUM DENSITY 95% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T180-57 (ASTM D1557-70)	PER SOIL TYPE ONE PER 500 FEET HORIZONTALLY, IN 12 INCH LIFTS
UTILITY TRENCH BACKFILL OVER PIPELINES AND AROUND STRUCTURES WITHIN THE RIGHT-OF-WAY AND IN STRUCTURAL AREAS	OPTIMUM MOISTURE/MAXIMUM DENSITY 95% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T180-57 (ASTM D1557-70)	PER SOIL TYPE *, **
UTILITY TRENCH BACKFILL OVER PIPELINES OUTSIDE THE RIGHT-OF-WAY AND IN NON-STRUCTURAL AREAS	OPTIMUM MOISTURE/MAXIMUM DENSITY 95% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T180-57 (ASTM D1557-70)	PER SOIL TYPE *, **
STABILIZED SUBGRADE	OPTIMUM MOISTURE/MAXIMUM DENSITY MINIMUM LBR 40 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T180-57 (ASTM D1557-70)	PER MATERIAL TYPE *** PER MATERIAL TYPE ***
BASE (OTHER THAN SOIL CEMENT)	OPTIMUM MOISTURE/MAXIMUM DENSITY MINIMUM LBR 10 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T180-57 (ASTM D1557-70) - NO TOLERANCE GRADATION, ATTERBURG LIMITS	PER SOURCE PER SOURCE *** EACH LIFT PER SOURCE
CONCRETE	SLUMP TEST COMPRESSIVE STRENGTH CYLINDERS AIR CONTENT	ONE PER SET OF CYLINDERS ONE SET OF (3) CYLINDERS FOR 100 CUBIC YARDS OR FRACTION THEREOF ONE PER SET OF CYLINDERS
SOIL CEMENT BASE (NO IN-PLACE MIXING ALLOWED) (TO BE USED IF SEPARATION BETWEEN SHWT & BOTTOM OF BASE IS < 1.5')	MIX DESIGN/PER SPECIFICATIONS AS DETERMINED BY PORTLAND CEMENT ASSOCIATION SPECIFICATIONS MAXIMUM DENSITY AS DETERMINED BY AASHTO T134 OPTIMUM MOISTURE (STANDARD) COMPRESSIVE STRENGTH SPECIMENS AS DETERMINED BY PORTLAND CEMENT ASSOCIATION SPECIFICATIONS - 300 PSI @ 7 DAYS, TYPE DAILY **** TEST CORES AS DETERMINED BY PORTLAND CEMENT ASSOCIATION SPECIFICATIONS - 400 PSI @ 21 DAYS, SET OF COMPRESSIVE **** FIELD DENSITY AND THICKNESS 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T192,T238,ASTM D1556, D2922	ONE PER SOIL TYPE ONE PER SOIL TYPE DAILY ONE SET OF (3) PER SOIL TYPE DAILY ONE SET OF (3) CORES PER TEST STRENGTH SPECIMENS ONE PER 2500 SF HORIZONTAL
ASPHALTIC CONCRETE	AGGREGATE ANALYSIS DESIGN MIX BITUMEN CONTENT GRADATION STABILITY FLOW PROPERTIES OF IN-PLACE MATERIALS (MARSHALL) THICKNESS 95% OF LAB DENSITY	ONE PER DESIGN ONE PER TYPE ONE PER DAY ONE PER DAY ONE PER DAY *** ***

* TESTS SHALL BE LOCATED NO MORE THAN 500 FEET APART. TESTS SHALL BE PERFORMED ON EACH LIFT, EXCEPT THAT TESTS SHALL NOT BE FURTHER APART THAN ONE (1) FOOT VERTICALLY. FIELD DENSITIES SHALL BE TAKEN OVER ALL ROAD CROSSINGS. FIELD DENSITIES FOR SANITARY LINES SHALL BE STAGGERED TO INCLUDE RESULTS OVER SERVICE LATERALS. THERE SHALL BE A MINIMUM OF ONE (1) TEST SERIES FOR EACH 12 INCHES OF LIFT OVER PIPELINE BETWEEN MANHOLES. TESTS AROUND STRUCTURES SHALL BE SPIRALED IN 12 INCH LIFTS.

** FOR FLEXIBLE PIPE, (CORRUGATED STEEL OR ALUMINUM), 95% OF MAXIMUM DENSITY (AASHTO-199) PER F.D.O.T. SUPPLEMENTAL SPECIFICATIONS SUBARTICLE 125-8.3.2 MODIFIED.
*** TESTS SHALL BE LOCATED NO MORE THAN 500 FEET APART. THERE SHALL BE NO LESS THAN ONE (1) TEST PER STREET.
**** MAXIMUM STRENGTH LIMITS, AS ESTABLISHED BY THE SOILS TESTING COMPANY, SHALL NOT BE EXCEEDED.

D. EXCEPT AS NECESSARY FOR CONSTRUCTION, EXCAVATED MATERIAL SHALL NOT BE DEPOSITED IN THE WETLAND OR IN A POSITION CLOSE ENOUGH THERETO TO BE WASHED AWAY BY HIGH WATER OR RUNOFF.

E. WHERE PUMPS ARE TO BE USED TO REMOVE TURBID WATERS FROM CONSTRUCTION AREAS, THE WATER SHALL BE TREATED PRIOR TO DISCHARGE TO THE WETLANDS. TREATMENT METHODS INCLUDE AND ARE NOT LIMITED TO, TURBID WATER BEING PUMPED INTO GRASSY SWALES OR APPROPRIATE VEGETATED AREAS, SEDIMENT BASINS, OR CONFINED BY AN APPROPRIATE ENCLOSURE SUCH AS TURBIDITY BARRIERS, AND KEPT CONFINED UNTIL ITS TURBIDITY LEVEL MEETS STATE WATER QUALITY STANDARDS.

F. THE CONTRACTOR SHALL SCHEDULE HIS OPERATIONS SUCH THAT THE AREA OF UNPROTECTED ERODIBLE EARTH EXPOSED AT ANY ONE TIME IS NOT LARGER THAN THE MINIMUM AREA NECESSARY FOR EFFICIENT CONSTRUCTION OPERATIONS, AND THE DURATION OF EXPOSED, UNCOMPLETED CONSTRUCTION TO THE ELEMENTS SHALL BE AS SHORT AS PRACTICAL. CLEARING AND GRUBBING SHALL BE SO SCHEDULED AND PERFORMED THAT GRADING OPERATIONS CAN FOLLOW IMMEDIATELY THEREAFTER, AND GRADING OPERATIONS SHALL BE SCHEDULED AND PERFORMED THAT PERMANENT EROSION CONTROL FEATURES CAN FOLLOW IMMEDIATELY THEREAFTER IF CONDITIONS ON THE PROJECT PERMIT.

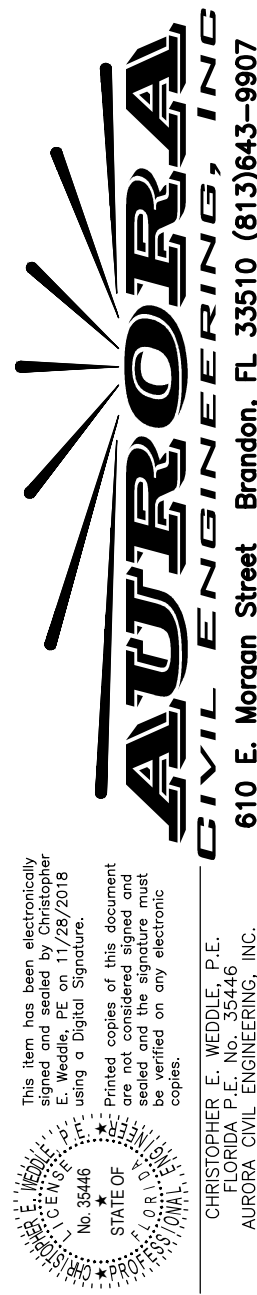
G. THE CONTRACTOR AND/OR THE OWNER'S REPRESENTATIVE SHALL PROVIDE ROUTINE MAINTENANCE OF PERMANENT AND TEMPORARY EROSION CONTROL FEATURES UNTIL THE PROJECT IS COMPLETE AND ALL BARED SOILS ARE STABILIZED.

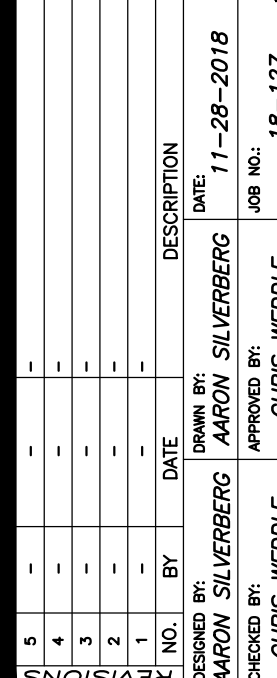
X. DEWATERING

A. DEWATERING OF THE SITE FOR ANY CONSTRUCTION REQUIRING DEWATERING SHALL BE BY WELL POINT. THE WELL POINT SYSTEM MAY NOT DISCHARGE DIRECTLY INTO WETLAND AREAS. ANY OTHER METHOD OF DEWATERING WILL REQUIRE A DESIGNED SETTLING BASIN PRIOR TO DISCHARGE INTO WETLANDS.

CONTRACTOR SHALL PROVIDE A DEWATERING PLAN TO THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (XSVFWM) SHOULD DEWATERING BE NECESSARY DURING CONSTRUCTION. SEE GRADING PLAN FOR ADDITIONAL NOTES.

NEW TAMPA RECREATION ADDITION CONSTRUCTION NOTES

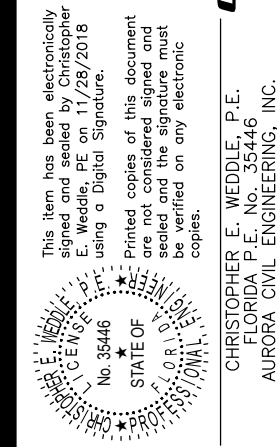




1. PAVEMENT SPOT GRADES SHOWN ARE FINISH PAVEMENT GRADES AT THE FACE OF CURB. TOP OF STANDARD CURBING IN THESE AREAS IS 0.5 FEET ABOVE THE EDGE OF PAVEMENT, UNLESS NOTED OTHERWISE.
2. SPOT GRADES AND CONTOURS SHOWN IN GRASSED AND LANDSCAPED AREAS REPRESENT FINAL PROPOSED GRADES AFTER PLACEMENT OF SODDING AND/OR BEDDING MATERIALS.
3. IN AREAS WHERE THE TOP OF CURB OR SIDEWALK VARY FROM THE TYPICAL SECTIONS, THE TOP OF CURB OR SIDEWALK ARE LABELLED AS "TC" OR "S/W".
4. DISABLED PARKING SPACES AND ADJACENT ACCESS AISLES ARE DESIGNED TO HAVE 2% OR FLATTER CROSS SLOPES IN ALL DIRECTIONS. PROPOSED PAVEMENT GRADES ARE SHOWN AT ALL CORNERS OF DISABLED SPACES AND ADJACENT ACCESS AISLES.
5. SIDEWALK/CURB RAMPS SHALL BE CONSTRUCTED PER FDOT INDEX #304, LATEST EDITION).
6. CONSTRUCT 2 LF CURB HEIGHT TRANSITION FROM FULL 6" HEIGHT TO FLUSH WITH SIDEWALK/ASPHALT PAVEMENT.

NEW TAMPA RECREATION ADDITION

TAMPA, FL 33647



C-3

VERTICAL DATUM CONVERSION:
NAVD 88 = (NGVD 1929 - 0.85')
NAVD 88 ELEV. 39.2' (SITE BM ID) = NGVD29 ELEV. 40.05'

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SANITARY STRUCTURES

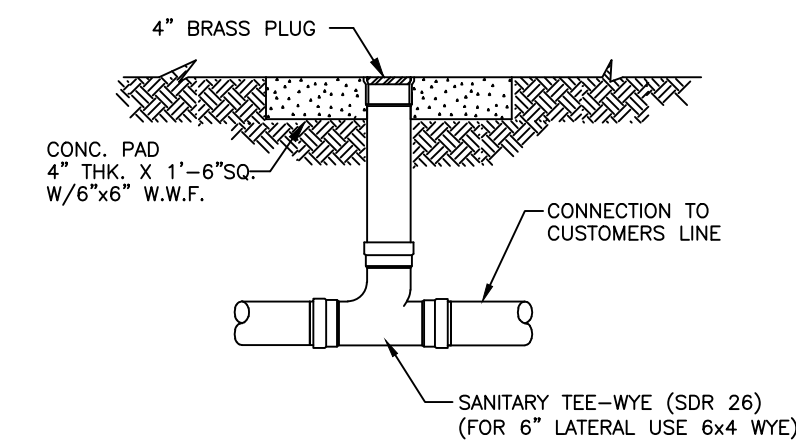
S-1 MANHOLE RIM EL 44.00 +/- INV EL 38.55 (8") SW INV EL 38.55 (8") S	S-3 MANHOLE RIM EL 42.10 INV EL 39.51 (8") N INV EL 39.61 (8") S
S-2 MANHOLE RIM EL 41.35 INV EL 38.95 (8") N INV EL 39.05 (8") S	S-4 MANHOLE RIM EL 42.50 INV EL 40.01 (8") NE INV EL 40.11 (6") NW

STORM STRUCTURES

ST-1 EXISTING CLEAN OUT CAP EL 44.10 INV EL 40.33 REPLACE W/ ADS DRAIN BASIN 12" SOLID COVER COVER EL 44.10 INV EL 40.33 (8") NW INV EL 39.50 (12") SE	ST-2 15" ADS DRAIN BASIN 12" SOLID COVER COVER EL 41.75 INV EL 39.50 (8") E INV EL 38.80 (12") NW INV EL 38.50 (12") SW
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GENERAL NOTES:

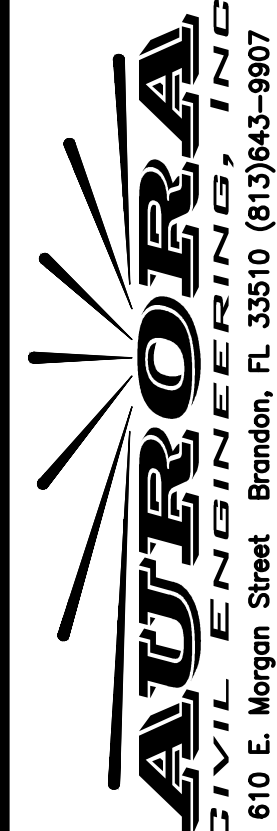
1. DIMENSIONS AND RADII IN PAVEMENT AREAS WITHOUT CURBING ARE SHOWN TO THE EDGE OF PAVEMENT. DIMENSIONS AND RADII IN PAVEMENT AREAS WITH CURBING ARE SHOWN TO THE FACE OF CURB. FACE OF CURB OR EDGE OF PAVEMENT RADII ARE 3' UNLESS NOTED OTHERWISE.
2. STORMWATER POND DIMENSIONS ARE SHOWN TO THE INSIDE TOP OF BANK.
3. STORMWATER STRUCTURE AND PIPE DIMENSIONS ARE CALCULATED AND SHOWN TO THE C/L OF STRUCTURES. MITERED END SECTION LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD ADJUST PIPE LENGTHS IF NEEDED TO ENSURE THE MITERED ENDS FIT THE SIDE SLOPES. PIPE LENGTHS SHOWN DO NOT INCLUDE THE LENGTH OF THE MITERED END SECTION.
4. ALL DISTURBED AREAS WITHIN ANY RIGHT-OF-WAY SHALL BE RESTORED TO EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
5. ANY MATERIALS REMOVED FROM THE SITE DURING CONSTRUCTION SHALL BE PROPERLY DISPOSED OF OFF-SITE OR AS DIRECTED BY THE OWNER.
6. BUILDING DIMENSIONS AND TIES SHOWN ARE TO THE FACE OF BUILDING BASED ON THE INFORMATION PROVIDED BY THE ARCHITECT. COORDINATE AND VERIFY ALL BUILDING DIMENSIONS WITH THE ARCHITECTURAL PLANS.
7. DUMPSTER ENCLOSURES SHALL BE 6' HIGH AND CONSTRUCTED OF THE SAME MATERIAL AS BUILDING FRONTS WITH SOLID GATES THAT CAN BE LOCKED OPEN.
8. ALL SIGNS AND PAVEMENT MARKING TO CONFORM TO MUTCD LATEST EDITION.
9. ALL STRIPING AND PAVEMENT MARKING TO BE PAINT.
10. SIDEWALK CURB RAMP TO BE IN ACCORDANCE WITH CR21 FDOT INDEX 304 WITH RED TRUNCATED DOMES (TYPICAL).
11. CONTRACTOR TO CONFIRM INVERT ELEVATION, PIPE MATERIAL AND CONDITION PRIOR TO MAKING CONNECTIONS FOR STORM CONNECTIONS. ADVISE ENGINEER OF CONFLICTS OR DEFICIENCIES.
12. CONTRACTOR SHALL BE AWARE THAT EXISTING UTILITIES, IRRIGATION LINES, ETC. MAY EXIST IN THE AREA OF NEW CONSTRUCTION. CONTRACTOR TO LOCATE EXISTING UTILITIES, IRRIGATION LINES, ETC. AND RELOCATE OR DEFLECT AS NECESSARY TO FACILITATE THE WORK.
13. ALL STORM AND SANITARY PIPE TO BE TYPE SDR26 PVC.



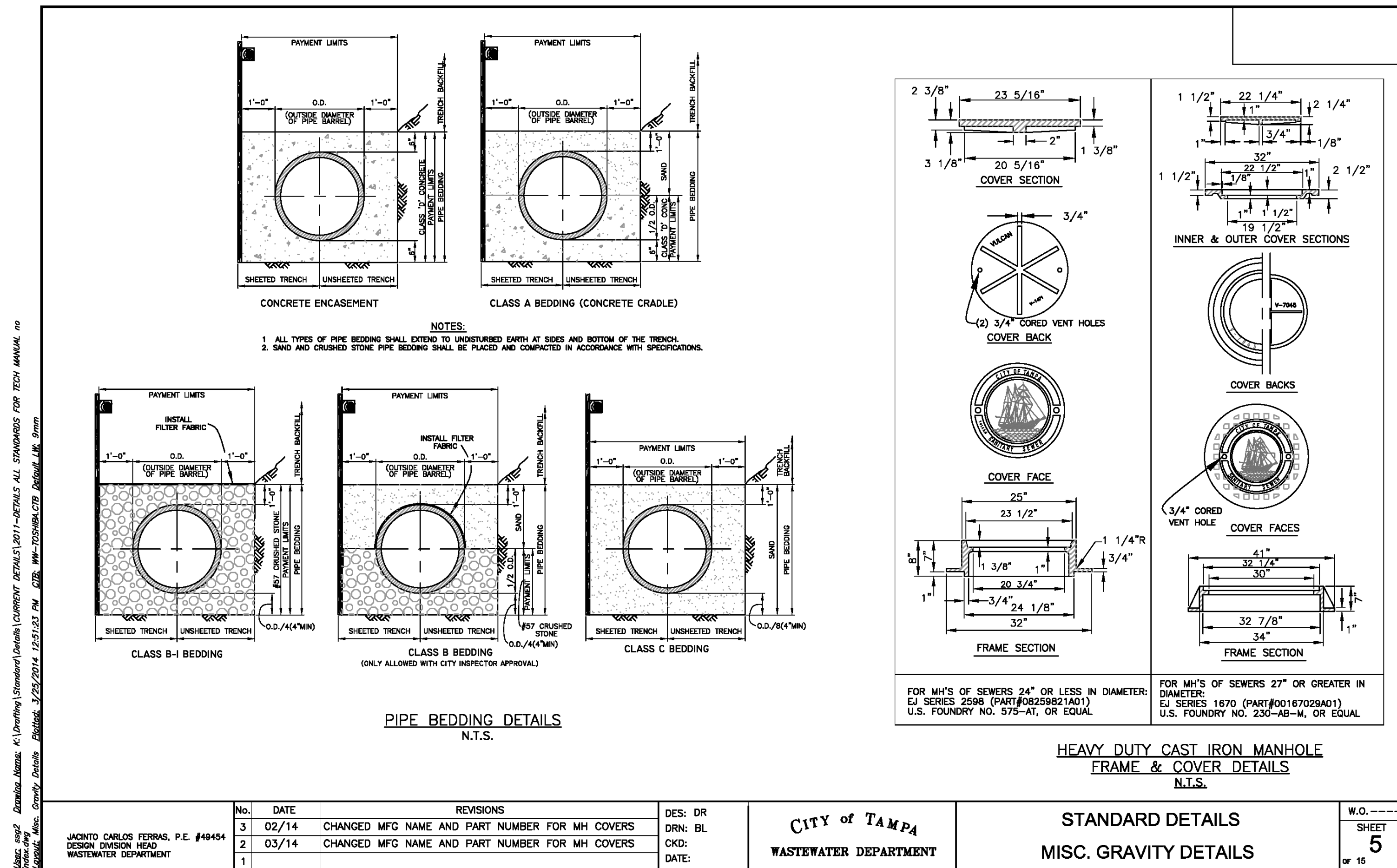
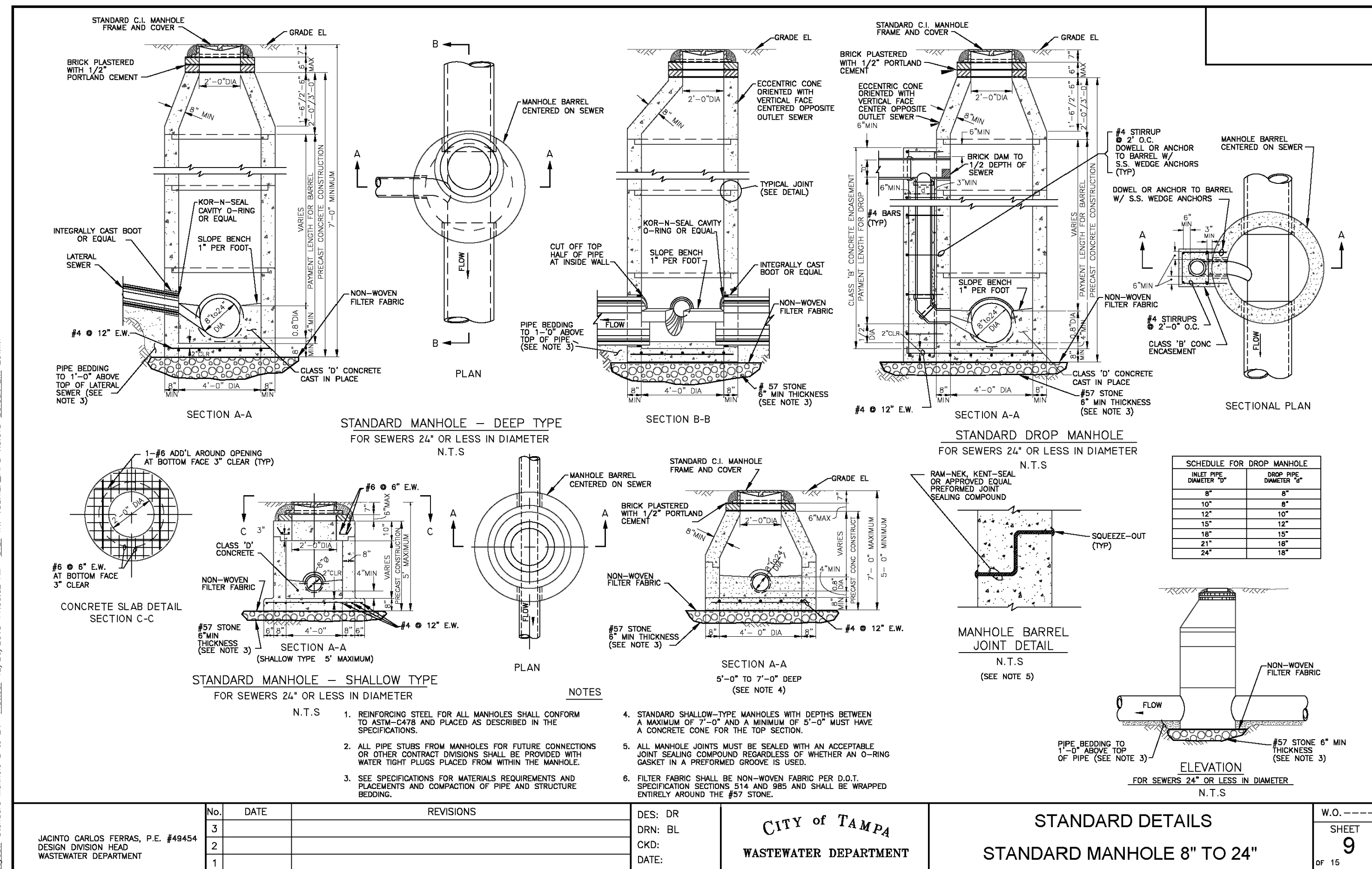
VERTICAL DATUM:
ELEVATIONS SHOWN HEREON ARE BASED ON CITY OF TAMPA BENCHMARK HY-02 0401, ELEV=39.212 FEET. (NAVD 1988)

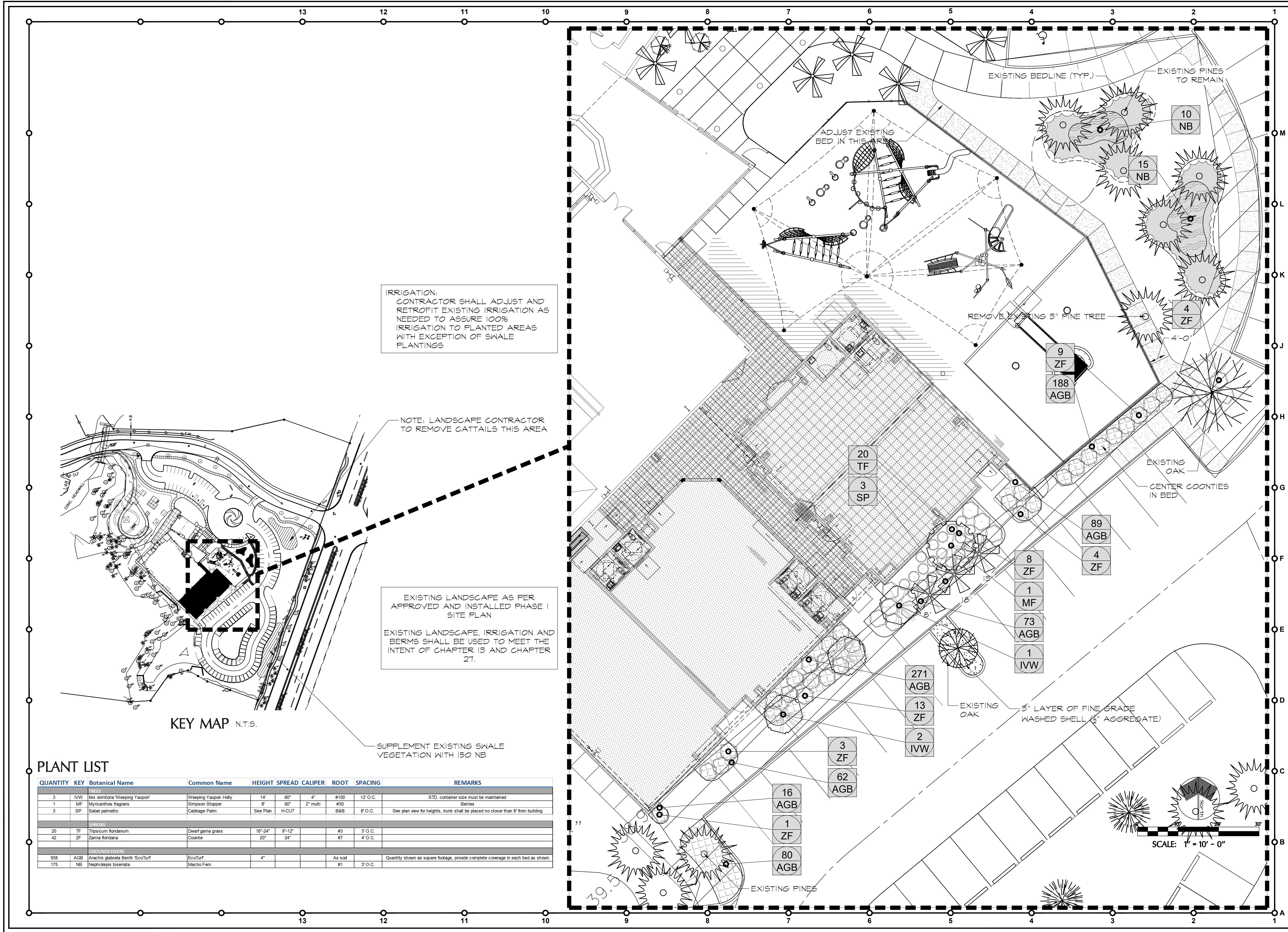
VERTICAL DATUM CONVERSION:
NAVD 88 = (NGVD 1929 - 0.85')
NAVD 88 ELEV. 39.2' (SITE BM ID) = NGVD29 ELEV. 40.05'

NEW TAMPA RECREATION ADDITION



THIS PLAN WAS PREPARED BY THE ENGINEER AND CHECKED BY THE ENGINEER. IT IS THE RESPONSIBILITY OF THE ENGINEER TO ENSURE THAT THE PLAN IS ACCURATE AND COMPLETE. THE ENGINEER DOES NOT WARRANT THE ACCURACY OF THE PLAN OR THE RESULTS OF ANY ANALYSIS OR DESIGN. THE ENGINEER'S LIABILITY IS LIMITED TO THE SERVICES PROVIDED BY THE ENGINEER. THE ENGINEER'S LIABILITY DOES NOT EXTEND TO ANY OTHER SERVICES OR TO ANY OTHER PARTIES. THE ENGINEER'S LIABILITY IS LIMITED TO THE SERVICES PROVIDED BY THE ENGINEER. THE ENGINEER'S LIABILITY DOES NOT EXTEND TO ANY OTHER SERVICES OR TO ANY OTHER PARTIES.





PLANT LIST

QUANTITY	KEY	Botanical Name	Common Name	HEIGHT	SPREAD	CALIPER	ROOT	SPACING	REMARKS
TREES									
3	IVW	Ilex vomitoria 'Weeping Yaupon'	Weeping Yaupon Holly	14'	60"	4"	#100	12' O.C.	STD. container size must be maintained
1	MF	Myricanthes fragrans	Simpson Stopper	8'	60"	2" multi	#30		Berries
3	SP	Sabal palmetto	Cabbage Palm	See Plan	H-CUT		B&B	8' O.C.	See plan view for heights, trunk shall be placed no closer than 6' from building
SHRUBS									
20	TF	Tripsicum floridanum	Dwarf gama grass	18"-24"	9"-12"		#3	3' O.C.	
42	ZF	Zamia floridana	Coontie	20"	24"		#7	4' O.C.	
GROUNDCOVERS									
938	AGB	Arachis glabrata Benth 'EcoTurf'	EcoTurf	4"			As sod		Quantity shown as square footage, provide complete coverage in each bed as shown
175	NB	Nephrrolepis biserrata	Macho Fern				#1	3' O.C.	

1202 W LINEBAUGH AVE.
TAMPA, FL 33612
(813) 751-8860

**EKISTICS
DESIGN
STUDIO**
L.A. • A.A. • S.A. • L.A. • S.A.
LANDSCAPE ARCHITECTURE
APPLIED • ECOLOGY

FleischmanGarcia
ARCHITECTURE • PLANNING • INTERIORS DESIGN
SAFETY HARBOR OFFICE: 35 HARBOR BLVD., SUITE 300, SAFETY HARBOR, FL 34606
TAMPA OFFICE: 1202 W LINEBAUGH AVE., SUITE 300, TAMPA, FL 33612
PH: (813) 751-8860 FAX: (813) 751-8861
REGISTRATION NUMBER: AA 000123

**NEW TAMPA
RECREATION CENTER
ADDITION**
TAMPA, FL 33647

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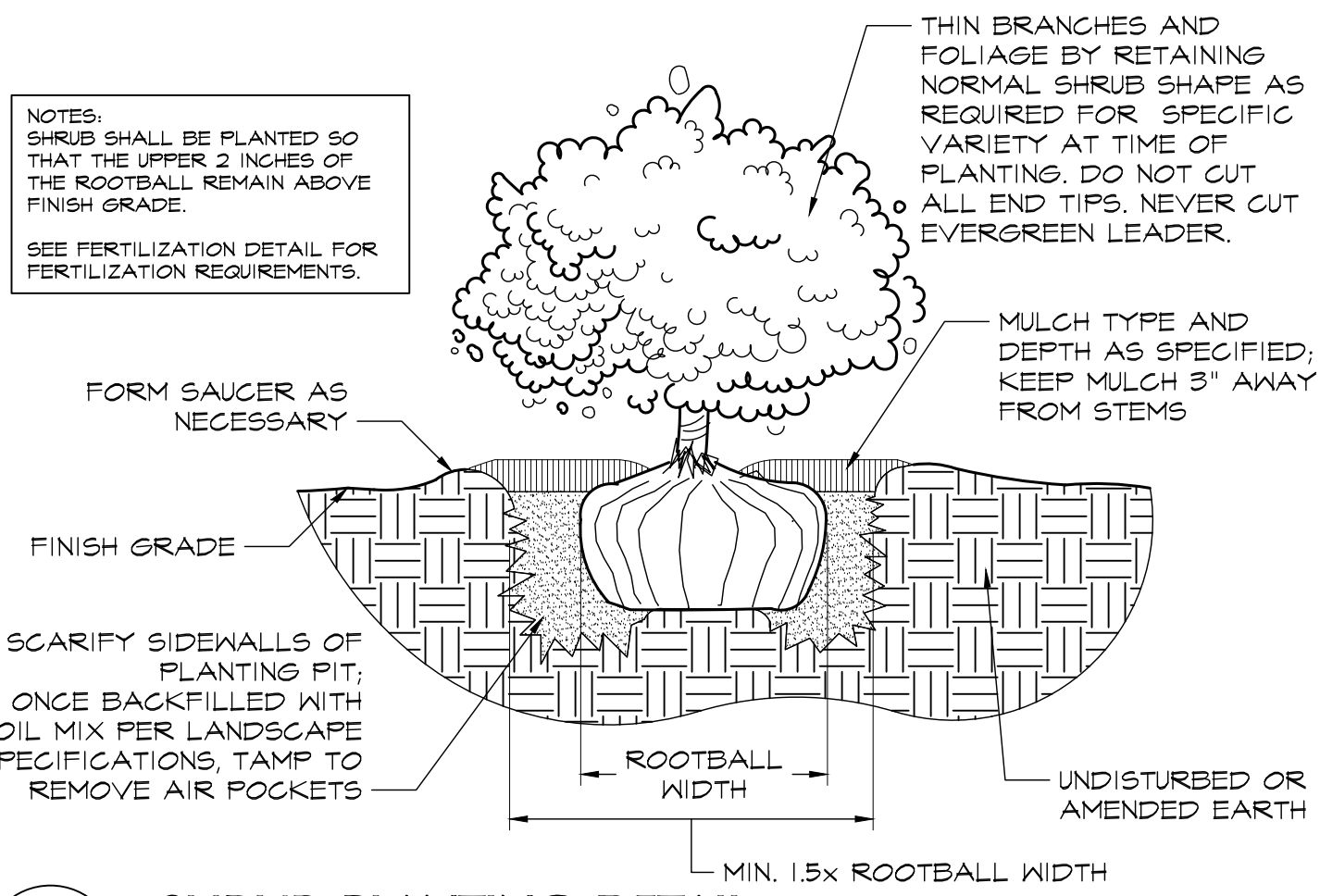
CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THESE DRAWINGS AND SPECIFICATIONS COMPLY WITH ALL APPLICABLE CODES AND STANDARDS.

FGA PROJECT NUMBER
18015

ISSUE DATE
08/30/18

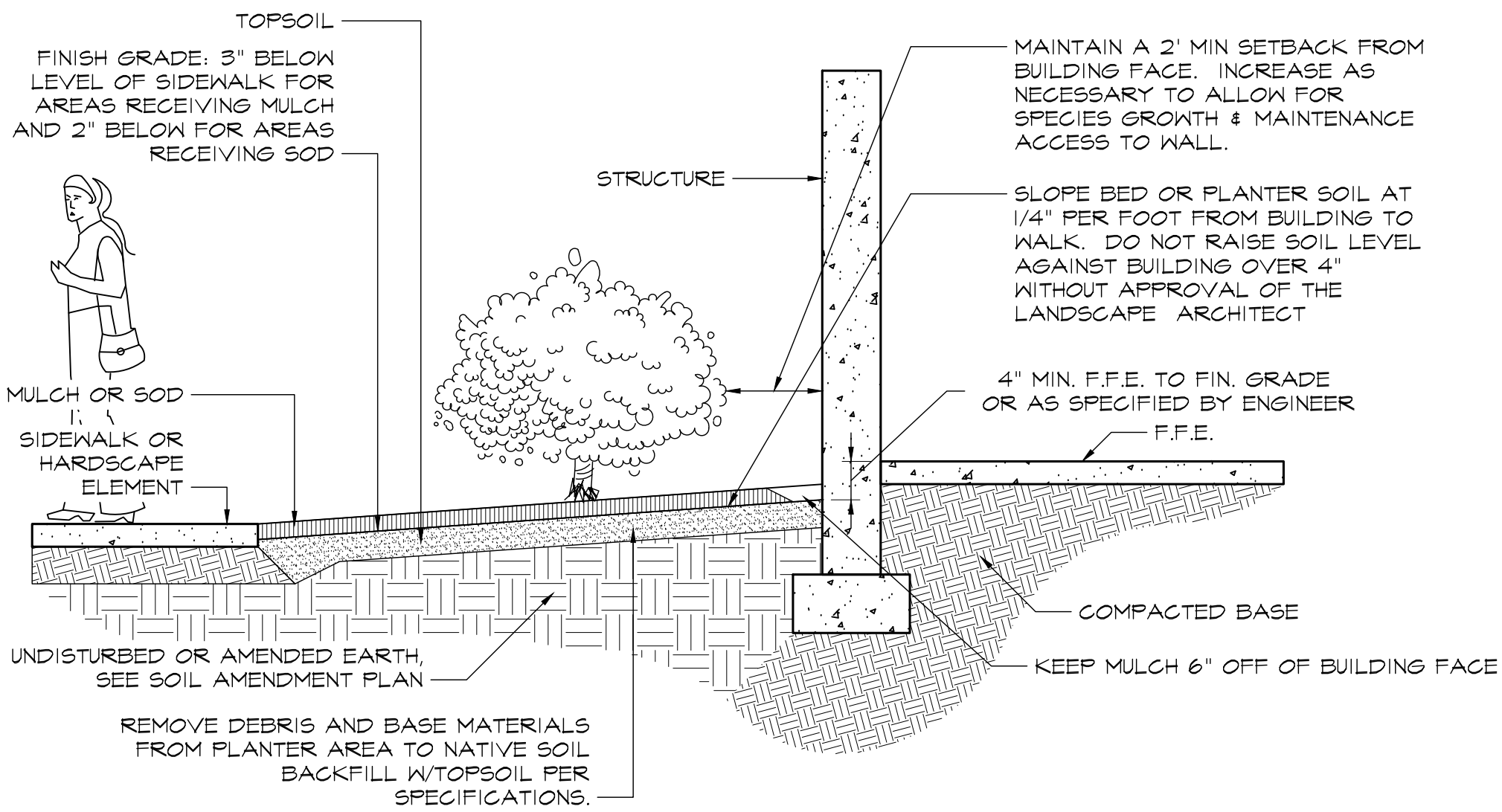
SHEET NUMBER
LAI.0

1. ALL PLANT MATERIAL SHALL BE FLORIDA GRADE NO.1 OR BETTER PER "GRADES AND STANDARDS FOR NURSERY PLANTS, PART I & II", FLORIDA DEPARTMENT OF AGRICULTURE, TALLAHASSEE, FL.
2. ALL PERMITS NECESSARY FOR INSTALLATION/CONSTRUCTION ARE TO BE PROVIDED BY THE LANDSCAPE CONTRACTOR UNLESS OTHERWISE SPECIFICALLY STATED IN THE LANDSCAPE PLANS OR NOTES.
3. INSTALLATION OF LANDSCAPE MUST BE COORDINATED WITH OTHER SUBCONTRACTORS. THE LANDSCAPE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
4. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IF ANY CONFLICTS ARISE BETWEEN THE PROPOSED DESIGN AND EXISTING CONDITIONS ON-SITE.
5. THE CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ON-SITE CONDITIONS AS PART OF THE BIDDING PROCESS. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO AWARD OF CONTRACT OF ANY ON-SITE CONDITIONS THAT WOULD HINDER THE NORMAL, HEALTHY GROWTH OF PLANT SPECIES PROPOSED ON THESE PLANS.
6. THE LANDSCAPE ARCHITECT MAY BE CONTACTED FOR ASSISTANCE IN LAYOUT OF PLANT MATERIAL, IF NEEDED. ALL QUESTIONS REGARDING PLANT PLACEMENT MUST BE RESOLVED PRIOR TO COMMENCEMENT OF
7. CAREFULLY REVIEW THE LANDSCAPE MATERIAL SPECIFICATIONS. ALL MATERIALS MUST BE AS SPECIFIED ON THE LANDSCAPE PLANS. IF MATERIALS OR LABOR DO NOT ADHERE TO SPECIFICATIONS, THE LANDSCAPE
8. THE LANDSCAPE ARCHITECT WILL ACCEPT NO SUBSTITUTIONS OF PLANT MATERIAL/SPECIES WITHOUT WRITTEN APPROVAL. CONTRACTOR SHALL SUBMIT TO THE LANDSCAPE ARCHITECT PROOF OF NON-AVAILABILITY
9. PLANT MATERIAL QUANTITIES SHOWN ON THESE PLANS ARE SUPPLIED AS AN AID TO THE CONTRACTOR FOR BIDDING PURPOSES. FINAL QUANTITY TAKEOFFS ARE THE RESPONSIBILITY OF THE CONTRACTOR. NOTIFY THE LANDSCAPE ARCHITECT IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH ANY CHANGES IN MATERIAL QUANTITIES.
10. PLANT SPECIFICATIONS OF HEIGHT, CLEAR TRUNK, SPREAD AND CONTAINER SIZE SHOWN ON THE PLANS ARE MINIMUM ACCEPTABLE SIZES. ALL INSTALLED MATERIAL SHALL MEET OR EXCEED THE GIVEN SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT TO THE LANDSCAPE ARCHITECT PROOF OF NON-AVAILABILITY AND A PROPOSAL FOR THE USE OF EQUIVALENT MATERIAL.
11. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ROUGH GRADING THE SITE TO WITHIN 0.10 FT. OF GRADES SHOWN ON THESE PLANS. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR FINISH GRADES IN ALL LANDSCAPE AREAS. ALL PROPOSED CONTOURS SHOWN ON THE LANDSCAPE PLANS ARE TO BE GRADED TO A MAXIMUM SLOPE OF 3:1.
12. PLANTING BEDS SHALL BE TREATED WITH A USEPA APPROVED PRE-EMERGENT HERBICIDE PRIOR TO INSTALLATION OF PLANT MATERIAL. CONTRACTOR SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS FOR
13. PLANTING BEDS SHALL BE FINISHED WITH A 3" LAYER OF "HARDWOOD MULCH" OR APPROVED EQUAL.
14. PLANTING PITS SHALL BE AMENDED AND BACKFILLED WITH A MIXTURE OF ONE PART GOOD QUALITY PEAT OR COMPOSTED FINES, AND ONE PART NATIVE SOIL OR APPROVED EQUAL. ALL ANNUAL BEDS SHALL BE FILLED TO A DEPTH OF TEN INCHES WITH AN APPROVED SOIL MIX. CONTRACTOR SHALL SUBMIT SAMPLES FOR APPROVAL. CONTRACTOR SHALL ALSO PLACE AN APPROPRIATE QUANTITY OF "AGRIFORM" SLOW RELEASE
15. THE CONTRACTOR IS RESPONSIBLE FOR APPROPRIATE WATERING AND MAINTENANCE OF ALL PLANT MATERIAL DURING THE INSTALLATION PHASE. ANY DEAD OR DEFICIENT PLANT MATERIAL WILL BE REPLACED
16. THE CONTRACTOR SHALL WARRANTY ALL WORKMANSHIP AND MATERIALS. TREES SHALL BE WARRANTED FOR ONE YEAR, SHRUBS AND GROUNDCOVER SHALL BE WARRANTED FOR SIX MONTHS.
17. THE CONTRACTOR SHALL VERIFY THAT THE SOIL IS FREE OF EXCESS CLAY, DEBRIS AND TRASH AND HAS A PH LEVEL SUITABLE FOR OPTIMAL GROWING CONDITIONS PRIOR TO IMPLEMENTATION OF THE PROPOSED
18. ALL LANDSCAPE BIDS SHALL PROVIDE UNIT PRICE BREAKDOWNS FOR PLANTS AND SUPPLEMENTAL MATERIALS.
19. ALL LANDSCAPED AREAS SHALL EITHER BE MULCHED OR SODDED IN ACCORDANCE WITH LOCAL MUNICIPAL OR JURISDICTIONAL REGULATIONS.
20. AFTER COMPLETION OF PLANTING, THE CONTRACTOR SHALL REMOVE ALL ROPE "CROSS-TIES" FROM THE TOP OF THE ROOTBALL AND CUT THE WIREBASKET AWAY FROM THE TOP OF THE ROOTBALL.



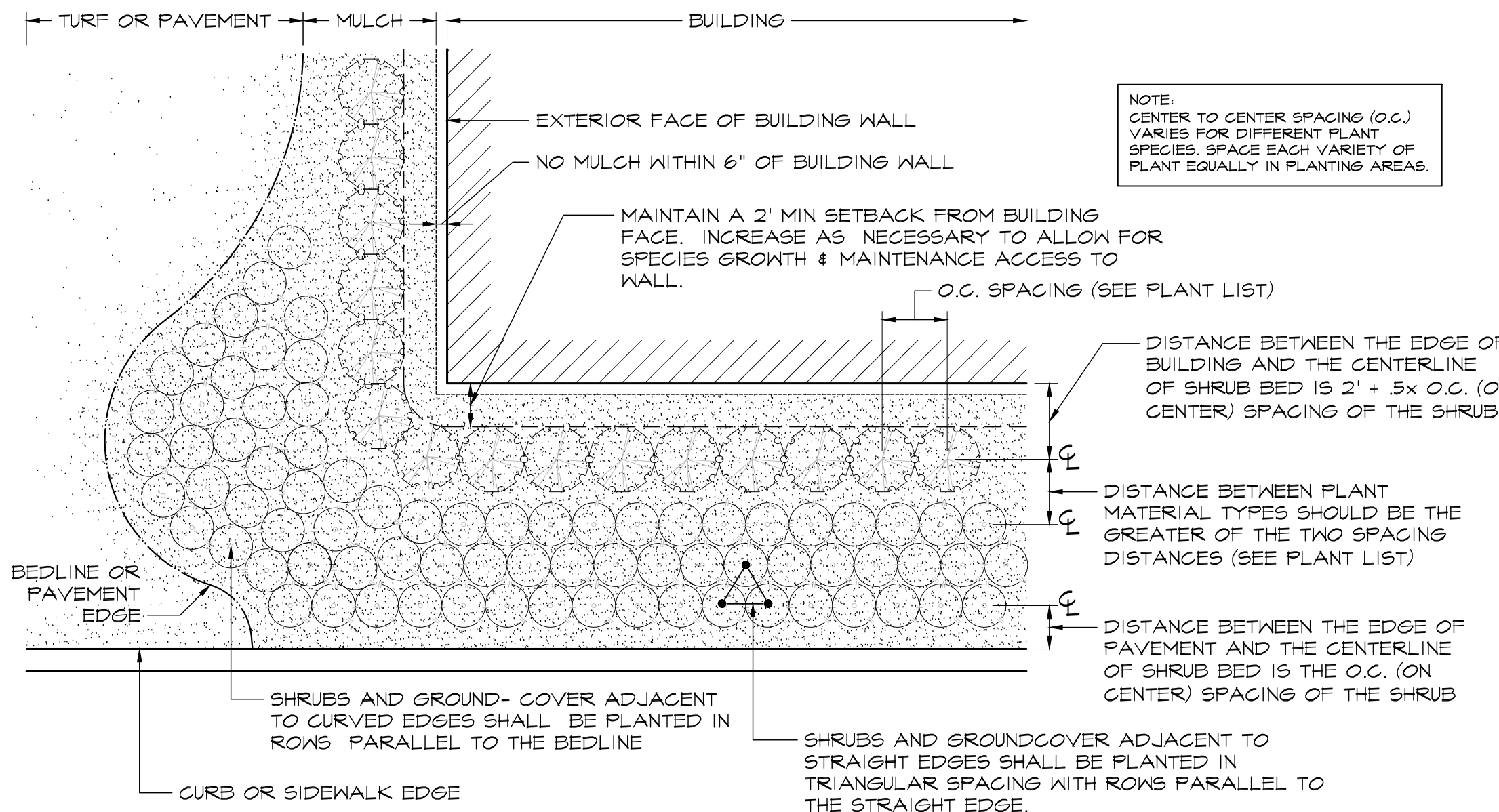
B SHRUB PLANTING DETAIL

SCALE:



C PLANTING BED DETAIL

SCALE:



D PLANTING ISLAND DETAIL

SCALE:

FERTILIZATION - TREES, SHRUBS & GROUNDCOVERS

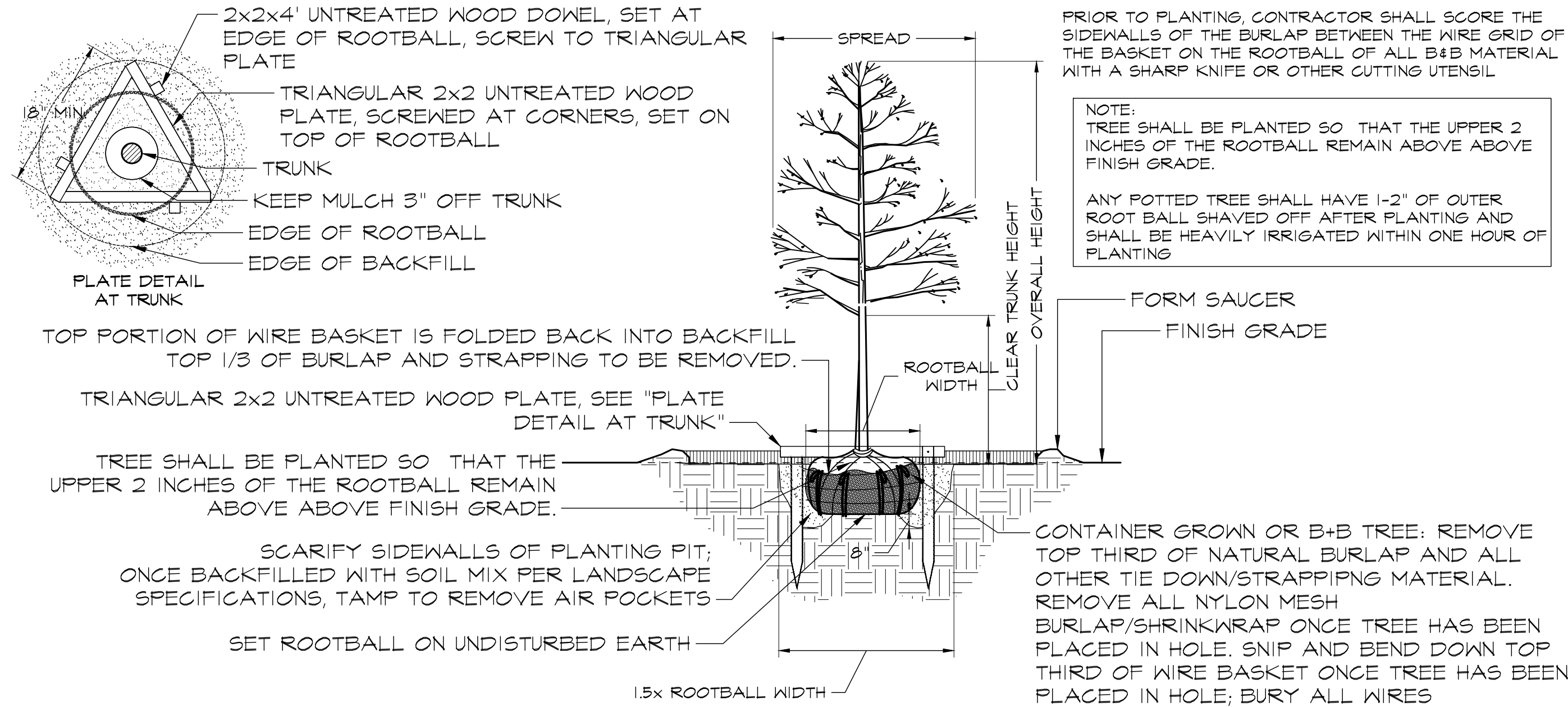
ALL PLANTINGS SHALL BE FERTILIZED WITH AGRIFORM 20-10-15 PLANTING TABLETS AT THE TIME OF INSTALLATION AND PRIOR TO COMPLETION OF BACKFILLING. AGRIFORM PLANTING TABLETS SHALL BE PLACED UNIFORMLY AROUND THE ROOT MASS AT THE DEPTH THAT IS BETWEEN THE MIDDLE AND THE BOTTOM OF THE ROOT MASS.

APPLICATION RATES

21 GRAM TABLET				10 GRAM TABLET	5 GRAM TABLET
1 GALLON CAN PLANTS	3 GALLON CAN PLANTS	5 GALLON CAN PLANTS	7 GALLON CAN PLANTS	LARGE TREES OR B&B TREES	MATURE PALMS
1 TABLET	2 TABLETS	3 TABLETS	4 TABLETS	TREES: 5 TABLETS FOR EA. 1/2" OF CALIPER SHRUBS: 1 TABLET FOR EA. 1' OF HEIGHT	10 TABLETS PER PALM
					WELL-ROOTED LINERS
					1 TO 2 TABLETS
					SMALL GROUNDCOVERS OR PERENNIALS
					1 TABLET

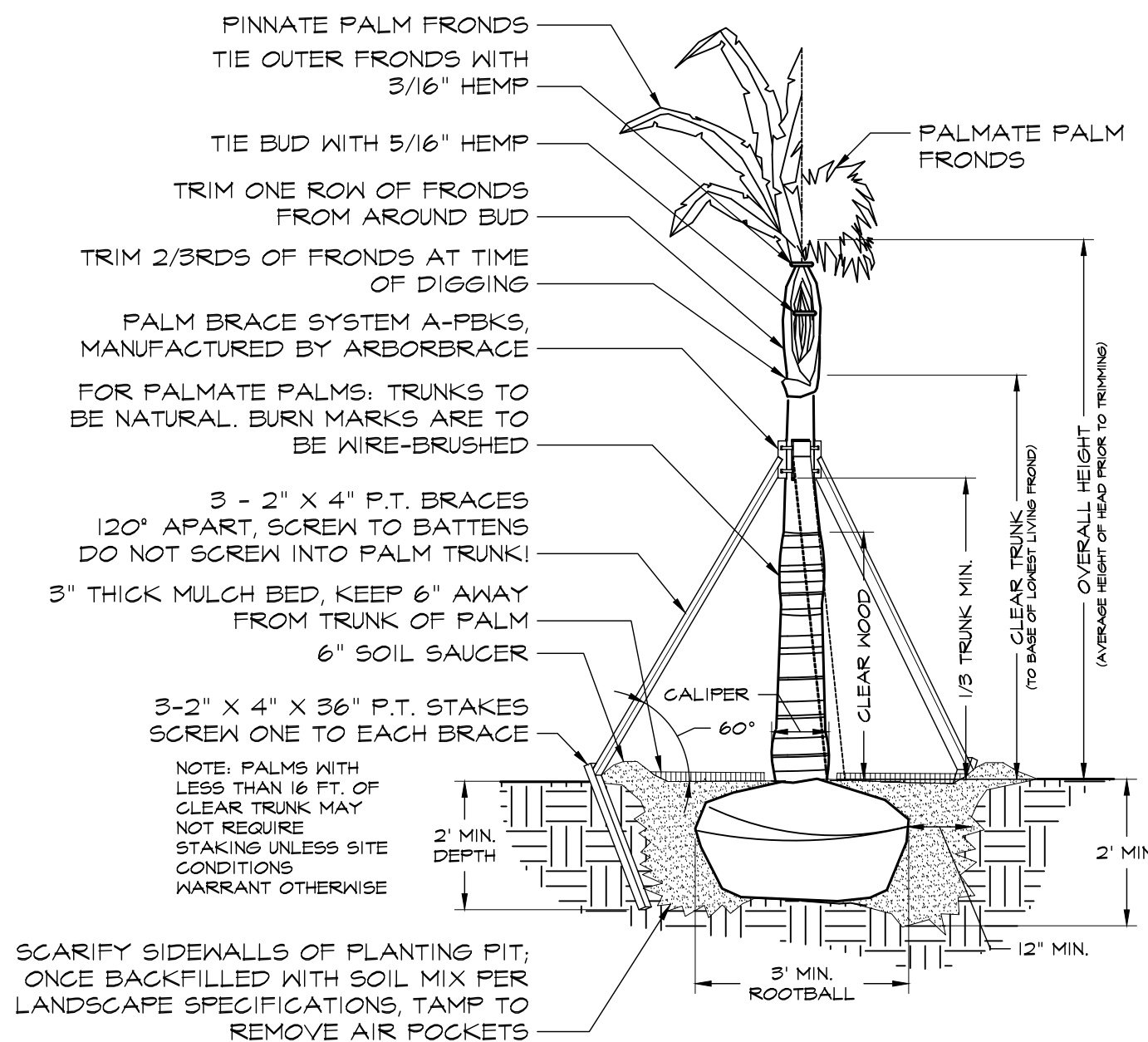
AGRIFORM 20-10-15 PLANTING TABLETS AS MANUFACTURED BY:
SIERRA CHEMICAL COMPANY
1001 YOSEMITE DRIVE
MILPITAS, CA 95035

NOTE: LANDSCAPE ARCHITECT MAY MAKE A RANDOM SAMPLING OF PLANT PITS TO DETERMINE THE UNIFORMITY OF APPLICATION.



A TREE PLANTING, STAKING & PRUNING

SCALE:



E PALM PLANTING & STAKING DETAIL

SCALE:

NEW TAMPA RECREATION CENTER ADDITION

TAMPA, FL 33647

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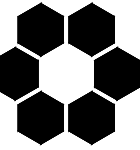
CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THESE DRAWINGS COMPLY WITH ALL RELEVANT BUILDING CODES.

FGA PROJECT NUMBER
18015

ISSUE DATE
08/30/18

SHEET NUMBER
LA2.0

FleischmanGarcia
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REGISTRATION NUMBER AA 000123



EKISTICS DESIGN STUDIO
ARCHITECTURE • PLANNING • INTERIOR DESIGN
1202 W LINEBAUGH AVE.
TAMPA, FL 33612
PHONE (813) 731-8860

A horizontal line with five points marked by small circles. Above each circle is a label: 5, 14, 13, 12, and 11, respectively, from left to right.

9		8		7		6		5	
AFF	ABOVE FINISHED FLOOR	FH	FIRE HYDRANT			PNT	PAINT (PAINTED FINISH)		
ATS	ABOVE TOP OF SLAB	FPL	FIREPLACE			POLYSO	POLYISOCYANURATE		
ACOU	ACOUSTICAL	FL	FLOOR, FLOORING			PR	PAIR		
APC	ACOUSTICAL PANEL CEILING	FLD	FLOOR DRAIN			PTD	PAPER TOWEL DISPENSER		
ADDL	ADDITIONAL	FBC	FLORIDA BUILDING CODE			PERP	PERPENDICULAR		
ADJ	ADJACENT	FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION			PCP	PERSONAL COMPUTER		
ADJUS	ADJUSTABLE	FLR	FLOORESCENT			PL	PLATE		
AC	AIR CONDITIONING	FT	FEET, FOOT			PLS	PLASTER		
AHUJ	AIR HANDLING UNIT	FTG	FOOTING			PLM	PLASTIC LAMINATE		
ALUM	ALUMINUM	FND	FOUNDATION			PLB	PLUMBING		
ALT	ALTERNATE	GA	GAUGE			PWD	PLYWOOD		
ADA	AMERICANS WITH DISABILITIES ACT	GALV	GALVANIZED			PVC	POLYVINYL CHLORIDE		
ANCH	ANCHOR BOLT	GC	GENERAL CONTRACTOR			CEM PLS	PORLAND CEMENT PLASTER		
APPR	APPROVE, APPROVED	GB	GLASS, GLAZING			PCF	POUNDS PER CUBIC FOOT		
APPROX	APPROXIMATE	GL	GLASS, GLAZING			PSI	POUNDS PER SQUARE INCH		
ARCH	ARCHITECT, ARCHITECTURAL	GB	GRAB BAR			PSF	POUNDS PER SQUARE FOOT		
AIE	ARCHITECT/ENGINEER	GYP	GYPSON			P-F.P	POURED IN PLACE		
AVE	AVENUE	GFRG	GLASS FIBER REINFORCED CONCRETE			PEMB	PRE-ENGINEERED METAL BUILDING		
AVG	AVERAGE	GFRG	GLASS FIBER REINFORCED GYPSUM			PREFAB	PREFABRICATE, PREFABRICATED		
		GFI	GROUND FAULT INTERRUPT			PREFIN	PREFINISH, PREFINISHED		
						PT	PRESSURE TREATED		
BD	BOARD	HDP	HIGH DENSITY POLYURETHANE			QTY	QUANTITY		
BLVD	BOULEVARD	HDW	HARDWARE			R	RADIUS		
BLK	BLOCK	HGT	HEATING			RECT	RECTANGULAR		
BLKG	BLOCKING	HVAC	HEATING/VENTILATION/AIR CONDITIONING			REF	REFERENCE		
BOT	BOTTOM	H	HEIGHT			REC	REFLECTED CEILING PLAN		
BLDG	BUILDING	HC	HOLLOW CORE			REFR	REFRIGERATOR		
BM	BEAM	HM	HOLLOW METAL			REG	REGULAR		
BRG	BEARING	HORIZ	HORIZONTAL			REIN	REINFORCE, REINFORCED, REINFORCING		
BUR	BUILT UP ROOFING	HB	HOSE BIBB			REBAR	REINFORCED BAR		
X		HR	HOOR			REQD	REQUIRED		
		HWY	HIGHWAY			RES	RESILIENT		
CAB	CABINET	IMPR	IMPREGNATED			REV	REVISION, REVISED		
CPT	CARPET	INCR	INCANDESCENT			RD	RIGHT OF WAY		
CEG	CEILING	IN	INCH			RD	ROOF DRAIN		
CEM	CEMENT	INCL	INCLUDE, INCLUDED, INCLUDING			RM	ROOM		
CTR	CENTER	INFO	INFORMATION			RO	ROUGH OPENING		
CER	CERAMIC	ID	INSIDE DIAMETER			SND	SANITARY NAPKIN VENDOR		
CHKBD	CHALKBOARD	INSUL	INSULATION			SNO	SANITARY NAPKIN DISPOSAL		
CHKV	CIRCLE	INT	INTERIOR			SCJ	SAVED CONTROL JOINT		
CHCTV	CLOSED CIRCUIT TELEVISION	JAN	JANITOR			SCS	SCHEDULE		
CFA	CLEAR FLOOR AREA (ADA)	JST	JOIST			SHGTH	SHEATHING		
CLO	CLOSET	JBOX	JUNCTION BOX			SIL	SILICONE		
COL	COLUMN	KCJ	KEYED CONTROL JOINT			SM	SIMILAR		
CONC	CONCRETE	LAB	LABORATORY			SHT	SHEET		
CMU	CONCRETE MASONRY UNIT	LAM	LAMINATE, LAMINATED			SCD	SOLID DISPENSER		
CONF	CONFERENCE	LAND	LANDSCAPE ARCHITECT			SC	SOLID CORE		
CONST	CONSTRUCTION	LAV	LAVATORY			STC	SOUND TRANSMISSION COEFFICIENT		
CONT	CONTINUOUS, CONTINUE	LT	LIGHT			SPKR	SPEAKER		
CONTR	CONTRACT, CONTRACTOR	LED	LIGHT EMITTING DIODE			SPC	SPECIFICATION		
CJ	CONTROL JOINT, CONTROL JOINT	LTG	LIGHTING			SO	SQUARE		
CRD	CORRIDOR	LF	LINEAL FEET			SF	SQUARE FOOT, SQUARE FEET		
CORR	CORRIDOR	L	LONG, LENGTH			SS	STAINLESS STEEL		
CU FT	CUBIC FOOT PER MINUTE	LLH	LONG LEG HORIZONTAL			STD	STANDARD		
CPM	CUBIC FEET PER MINUTE	LLV	LONG LEG VERTICAL			STL	STEEL		
CYD	CUBIC YARD					STO	STORAGE		
						ST	STREET		
D	DEEP, DEPTH	MAINT	MAINTENANCE			STR	STRUCTURE, STRUCTURAL		
DEMO	DEMOLISH, DEMOLITION	MM	MILLIMETER			SUSP	SUSPENDED		
DTL	DETAIL	MH	MANHOLE			SW	SWITCH		
DIAG	DIAGONAL	MFR	MANUFACTURE, MANUFACTURER			SYMM	SYMMETRY, SYMMETRICAL		
DIA	DIAMETER	MFRD	MANUFACTURED						
DM	DIMENSION	MKBD	MARKERBOARD						
DW	DISHWASHER	MAS	MASONRY						
DIV	DIVISION					TKBD	TACKBOARD		
DR	DOOR					TEL	TELEPHONE		
DBL	DOUBLE					TEV	TELEVISION		
						TMP	TEMPORARY		

- | 9 | | 8 | | 7 | | 6 | | 5 | |
|--------|-----------------------------------|-------|--------------------------------------|---|--|---------|------------------------------------|---|--|
| AFF | ABOVE FINISHED FLOOR | FH | FIRE HYDRANT | | | PNT | PAINT (PAINTED FINISH) | | |
| ATS | ABOVE TOP OF SLAB | FPL | FIREPLACE | | | POLYSO | POLYISOCYANURATE | | |
| ACOU | ACOUSTICAL | FL | FLOOR, FLOORING | | | PR | PAIR | | |
| APC | ACOUSTICAL PANEL CEILING | FD | FLOOR DRAIN | | | PTD | PAPER TOWEL DISPENSER | | |
| ADDL | ADDITIONAL | FBC | FLORIDA BUILDING CODE | | | PERP | PERPENDICULAR | | |
| ADJ | ADJACENT | FDOT | FLORIDA DEPARTMENT OF TRANSPORTATION | | | PCP | PERSONAL COMPUTER | | |
| ADJUS | ADJUSTABLE | FLUOR | FLUORESCENT | | | PL | PLATE | | |
| AC | AIR CONDITIONING | FT | FEET, FOOT | | | PLS | PLASTER | | |
| AHU | AIR HANDLING UNIT | FTG | FOOTING | | | PLM | PLASTIC LAMINATE | | |
| ALUM | ALUMINUM | FND | FOUNDATION | | | PLBS | PLUMBING | | |
| ALT | ALTERNATE | | | | | PWD | PLYWOOD | | |
| ADA | AMERICANS WITH DISABILITIES ACT | GA | GAGE, GAUGE | | | PVC | POLYVINYL CHLORIDE | | |
| AB | ANCHOR BOLT | GALV | GALVANIZED | | | CEM PLS | PORTLAND CEMENT PLASTER | | |
| APPR | APPROVE, APPROVED | GC | GENERAL CONTRACTOR | | | LB, # | POUND | | |
| APPROX | APPROXIMATE | GL | GLASS, GLAZING | | | PCF | POUNDS PER CUBIC FOOT | | |
| ARCHT | ARCHITECT, ARCHITECTURAL | GS | GLASS, GLASS | | | PSI | POUNDS PER SQUARE INCH | | |
| ARE | ARCHITECT/ENGINEER | GYP | GYPSONIUM | | | PSF | POUNDS PER SQUARE FOOT | | |
| AVE | AVENUE | GFRG | GLASS FIBER REINFORCED CONCRETE | | | P-P | POURED IN PLACE | | |
| AVG | AVERAGE | GFRG | GLASS FIBER REINFORCED GYPSUM | | | PEMB | PRE-ENGINEERED METAL BUILDING | | |
| | | GFI | GROUND FAULT INTERRUPT | | | PREFAB | PREFABRICATE, PREFABRICATED | | |
| | | | | | | PREFIN | PREFINISH, PREFINISHED | | |
| | | | | | | PT | PRESSURE TREATED | | |
| BD | BOARD | HDP | HIGH DENSITY POLYURETHANE | | | QTY | QUANTITY | | |
| BLVD | BOULEVARD | HDW | HARDWARE | | | R | RADIUS | | |
| BLK | BLOCK | HTG | HEATING | | | RECT | RECTANGULAR | | |
| BLKG | BLOCKING | HVAC | HEATING/VENTILATION/AIR CONDITIONING | | | REF | REFERENCE | | |
| BLTG | BOTTOM | H | HEIGHT | | | RCP | REFLECTED CEILING PLAN | | |
| BLDG | BUILDING | HC | HOLLOW CORE | | | REFR | REFRIGERATOR | | |
| BM | BEAM | HM | HOLLOW METAL | | | REG | REGULAR | | |
| BRG | BEARING | HORIZ | HORIZONTAL | | | REIN | REINFORCE, REINFORCED, REINFORCING | | |
| BUR | BUILT UP ROOFING | HB | HOSE BIBB | | | REBAR | REINFORCING BAR | | |
| X | BY | HR | HOUR | | | RQCD | REQUIRED | | |
| | | HWY | HIGHWAY | | | RES | RESILIENT | | |
| CAB | CABINET | IMPR | IMPREGNATED | | | REV | REVISION, REVISED | | |
| CPT | CARPET | INCAN | INCANDESCENT | | | R/W | RIGHT OF WAY | | |
| CLG | CEILING | IN | INCH | | | RD | ROOF DRAIN | | |
| CEM | CEMENT | INCL | INCLUDE, INCLUDED, INCLUDING | | | RM | ROOM | | |
| CTR | CENTER | INFO | INFORMATION | | | RO | ROUGH OPENING | | |
| CER | CERAMIC | ID | INSIDE DIAMETER | | | SND | SANITARY NAPKIN VENDOR | | |
| CHKBD | CHALKBOARD | INSUL | INSULATION | | | SND | SANITARY NAPKIN DISPOSAL | | |
| CIR | CIRCLE | INT | INTERIOR | | | SCJ | SAVED CONTROL JOINT | | |
| CCTV | CLOSED CIRCUIT TELEVISION | JAN | JANITOR | | | SGH | SCHEDULE | | |
| CFA | CLEAR FLOOR AREA (ADA) | JST | JOIST | | | SHTHG | SHEATHING | | |
| CLO | CLOSET | JBOX | JUNCTION BOX | | | SIL | SILICONE | | |
| COL | COLUMN | KCJ | KEYED CONTROL JOINT | | | SIM | SIMILAR | | |
| CONC | CONCRETE | LAB | LABORATORY | | | SHT | SHEET | | |
| CMU | CONCRETE MASONRY UNIT | LAM | LAMINATE, LAMINATED | | | SD | SOAP DISPENSER | | |
| CONF | CONFERENCE | LA | LANDSCAPE, LANDSCAPED | | | SC | SOLID CORE | | |
| CONST | CONSTRUCTION | LAV | LAVATORY | | | STC | SOUND TRANSMISSION COEFFICIENT | | |
| CONT | CONTINUOUS, CONTINUE | LT | LIGHT | | | SPKR | SPEAKER | | |
| CONTR | CONTRACT, CONTRACTOR | LED | LIGHT EMITTING DIODE | | | SPEC | SPECIFICATION | | |
| CJ | CONTROL JOINT, CONSTRUCTION JOINT | | | | | | | | |

REVISION MARK

REVISION CLOUD AND SYMBOL

NORTH ARROW

TRUE NORTH ARROW

TRUE NORTH

PLAN NORTH

SECTION CUT INDICATION

A6
A6.1

DRAWING NUMBER (SHEET COORDINATE)

SHEET NUMBER WHERE DRAWING IS SHOWN

DOTS SIGNIFY EXTENT OF SECTION CUT

DETAIL INDICATION

A6
A6.1

DRAWING NUMBER (SHEET COORDINATE)

EXTENT OF AREA DETAILED

SHEET NUMBER WHERE DRAWING IS SHOWN

KEYNOTE INDICATION

9

KEYNOTE NUMBER

ELEVATION INDICATIONS

TRIANGLE(S) & IDENTIFIER(S) SHOWN INDICATE ELEVATIONS TO BE VIEWED WITHIN THE SAME DRAWING BORDER

TRIANGLE(S) & IDENTIFIER(S) SHOWN INDICATE ELEVATIONS TO BE VIEWED

A6
A6.1

DRAWING NUMBER (SHEET COORDINATE)

SHEET NUMBER WHERE DRAWING IS SHOWN

OPENING INDICATION & IDENTIFICATION

212

OPENING NUMBER

WINDOW TYPE INDICATION & IDENTIFICATION

WINDOW NUMBER

[illegible]

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APPLICABLE CODES	
BUILDING CODE:	FLORIDA BUILDING CODE 2017 (FBC 2017) - SIXTH EDITION
EXISTING CODE:	FBC 2017 - SIXTH EDITION
ACCESSIBILITY:	FBC 2017 - SIXTH EDITION
MECHANICAL CODE:	FBC 2017 - MECHANICAL
ELECTRICAL CODE:	FBC 2017 - CHAPTER 27: NFPA 70 (N.E.C.)
PLUMBING CODE:	FBC 2017 - PLUMBING
GAS FUEL CODE:	FBC 2017 - GAS FUEL
ENERGY CONSERVATION:	FBC 2017 - ENERGY
FIRE SAFETY CODE:	FLORIDA FIRE PREVENTION CODE - FIFTH EDITION (BASED ON NFPA 1, NFPA 101 & LIFE SAFETY CODE, 2012 EDITION)

BUILDING CATEGORIZATION & PHYSICAL PROPERTIES		
OCCUPANCY CLASSIFICATION	FLORIDA BUILDING CODE	FLORIDA FIRE PREVENTION CODE
	CHAPTER 3, SECTION 302	NFPA 101, CHAPTER 6
	ASSEMBLY A-3 / GYMNASIUM	ASSEMBLY

CONSTRUCTION TYPE	FLORIDA BUILDING CODE	FLORIDA FIRE PREVENTION CODE
	CHAPTER 6	NFPA-101-8.2.1.2
	II-B	PER FBC: II-B

WIND SPEED DESIGN CRITERION *ULTIMATE DESIGN WIND SPEED CLASSIFICATION EQUAL TO OR EXCEEDING 120 MPH QUALIFIES PROJECT FOR WIND BORNE DEBRIS REGION	FLORIDA BUILDING CODE	FLORIDA FIRE PREVENTION CODE	PROVIDED
	CHAPTER 16, SECTION 1609		
	VULT = 140-150-MPH (RISK CATEGORY III)	N/A	REFER TO "PA" DWGS

BUILDING PHYSICAL PROPERTIES	FLORIDA BUILDING CODE	FLORIDA FIRE PREVENTION CODE	PROVIDED
	SECTION 501		
	75' (TABLE 504.3)	N/A	NEW - 27' (EXIST - 33')
MAXIMUM HEIGHT IN FEET			
MAXIMUM NUMBER OF STORIES	3 (TABLE 504.4)	N/A	1
ALLOWABLE AREA PER FLOOR	38,000 SQ FT (TABLE 506.2)	N/A	7,476 SQ FT
SPRINKLER SYSTEM	NFPA 13	NFPA 13	YES

FIRE RATING REQUIREMENTS				
BUILDING COMPONENTS	FLORIDA BUILDING CODE	NFPA 101 - LIFE SAFETY CODE	NFPA 220	PROVIDED
	TABLES 601, 602, & 1020.1	7.1.3.1 & 6.1.14.4.1	TABLE 4.1.1	
STRUCTURAL FRAME	0	0	0	0
BEARING WALLS - EXTERIOR	0	0	0	0
BEARING WALLS - INTERIOR	0	0	0	0
NON-BEARING WALLS - EXTERIOR	0	0	0	0
NON-BEARING WALLS - INTERIOR	0	0	0	0
FLOOR CONSTRUCTION	0	0	0	0
ROOF CONSTRUCTION	0	0	0	0
OCCUPANCY SEPARATION (SPRINKLERED)	N/A PER 302.3.1	N/A	N/A	N/A
CORRIDORS: GREATER THAN 30 OCCUPANTS	0	0	PER 12.3.6 (2)	0

OCCUPANT LOAD & EGRESS WIDTH CALCULATIONS							
ROOM NO	AREA NAME	AREA (SQ FT)	FLORIDA BUILDING CODE				
			TABLE 1004.1.1	SECTION 1005.3.2	EGRESS WIDTH PRO-VIDED		
			OCCUPANT USE	AREA PER OCCU-PANT (SQ FT)	OCCU-PANT LOAD	EGRESS WIDTH PER PERSON SERVED	REQ'D EGRESS WIDTH
-	MULTI-PURPOSE A & B PRE-SCHOOL GYMNASIUM	3,691	ASSEMBLY A-3 / CONCENTRATED	7	511	0.2	30"
-	TRAINING BOX	1,850	EXERCISE	50	37	0.2	30"
TOTALS					548		

EXITING REQUIREMENTS			
EXITING COMPONENT	FLORIDA BUILDING CODE	NFPA 101 - LIFE SAFETY CODE	PROVIDED
COMMON PATH OF TRAVEL TO AN EXIT	75 FT [1006.2.1]	N/A	61'
MAXIMUM DEAD END CORRIDOR	20 FT [1020.4]	20 FT [12.2.5.1.3]	19'-4" FT
MAXIMUM TRAVEL DISTANCE TO EXIT	250 FT [TABLE 1017.2]	250 FT [12.2.6(1)]	154'
MINIMUM CORRIDOR WIDTH	44" [1020.2]	36" [7.3.4]	78"
MINIMUM CLEAR OPNG OF EXIT DOORS	32" [1010.1.1]	32" [7.2.1.2.4]	34"
MINIMUM STAIR WIDTH	N/A	N/A	N/A

FIRE EXTINGUISHER REQUIREMENTS			
FIRE EXTINGUISHER COMPONENT	FLORIDA BUILDING CODE	FLORIDA FIRE PREVENTION CODE	PROVIDED
		NFPA 10, TABLE 6.2.1.1 ORDINARY HAZARD OCCUPANCY	
MAXIMUM FLOOR AREA PER UNIT OF A	N/A	1500 SQ FT	935 SQ FT
MAXIMUM FLOOR AREA PER EXTINGUISHER	N/A	11,250 SQ FT	1,869 SQ FT
MAXIMUM TRAVEL DISTANCE	N/A	75 FT	70 FT

LIFE SAFETY AND BUILDING DATA

A12
N/A

FIXTURE COUNTS - EXISTING: ASSEMBLY [TABLE 403.1] (EXERCISE)					
WATER CLOSETS			LAVATORIES	DRINKING FOUNTAINS	SERVICE SINKS
MALE 1/125	FEMALE 1/65	UNISEX -	1/200	1/500	1 PER
REQ'D: 2 (1.36)	REQ'D: 3 (2.61)	REQ'D: X	REQ'D: 2	REQ'D: 1	REQ'D: 1

FIXTURE COUNTS - EXISTING: BUSINESS [TABLE 403.1]					
WATER CLOSETS			LAVATORIES	DRINKING FOUNTAINS	SERVICE SINKS
MALE/FEMALE 1/25 FIRST 50, 1/50 REMAINDER 50	1/40 FIRST 80, 1/80 REMAINDER 80	1/100	1/500	1 PER	1 PER
REQ'D: 1	REQ'D: 1	REQ'D: X	REQ'D: 2	REQ'D: 1	REQ'D: X

EXISTING TOTAL FIXTURE COUNTS REQUIRED					
MALE	FEMALE	UNISEX	LAVATORIES	DRINKING FOUNTAINS	SERVICE SINKS
REQ'D: 3	REQ'D: 4	REQ'D: X	REQ'D: 4	REQ'D: 2	REQ'D: 1

FIXTURE COUNTS - PROPOSED: ASSEMBLY [TABLE 403.1] (EXERCISE)					
WATER CLOSETS			LAVATORIES	DRINKING FOUNTAINS	SERVICE SINKS
MALE 1/125	FEMALE 1/65	UNISEX -	1/200	1/500	1 PER
REQ'D: 2 (2.04)	REQ'D: 4 (3.92)	REQ'D: X	REQ'D: 3	REQ'D: 1 (1.02)	REQ'D: X

FIXTURE COUNTS - PROPOSED: BUSINESS [TABLE 403.1] (EXERCISE)					
WATER CLOSETS			LAVATORIES	DRINKING FOUNTAINS	SERVICE SINKS
MALE 1/125	FEMALE 1/65	UNISEX -	1/200	1/500	1 PER
REQ'D: 1	REQ'D: 1	REQ'D: X	REQ'D: 2	REQ'D: 1	REQ'D: X

PROPOSED TOTAL FIXTURE COUNTS REQUIRED					
MALE	FEMALE	UNISEX	LAVATORIES	DRINKING FOUNTAINS	SERVICE SINKS
REQ'D: 3	REQ'D: 5	REQ'D: X	REQ'D: 5	REQ'D: 2	REQ'D: 1

TOTAL FIXTURE COUNTS REQUIRED (EXISTING & PROPOSED)					
MALE	FEMALE	UNISEX	LAVATORIES	DRINKING FOUNTAINS	SERVICE SINKS
REQ'D: 6	REQ'D: 9	REQ'D: X	REQ'D: 9	REQ'D: 4	REQ'D: 1

TOTAL FIXTURE COUNTS PROVIDED (EXISTING & PROPOSED)					
MALE	FEMALE	UNISEX	LAVATORIES	DRINKING FOUNTAINS	SERVICE SINKS
EXISTING: 2	EXISTING: 5	EXISTING: 8	EXISTING: 14	EXISTING: 6	EXISTING: 1
URINALS: 2					

- 150' TRAVEL DISTANCE
- 34"/170
- FEC FIRE EXTINGUISHER AND CABINET
- FE BRACKET MOUNTED FIRE EXTINGUISHER
- SINGLE FACE LIGHTED EXIT SIGN (DIRECTIONAL ARROWS ON SIGN WHERE INDICATED ON PLAN)
- DOUBLE FACE LIGHTED EXIT SIGN (DIRECTIONAL ARROWS ON SIGN WHERE INDICATED ON PLAN)

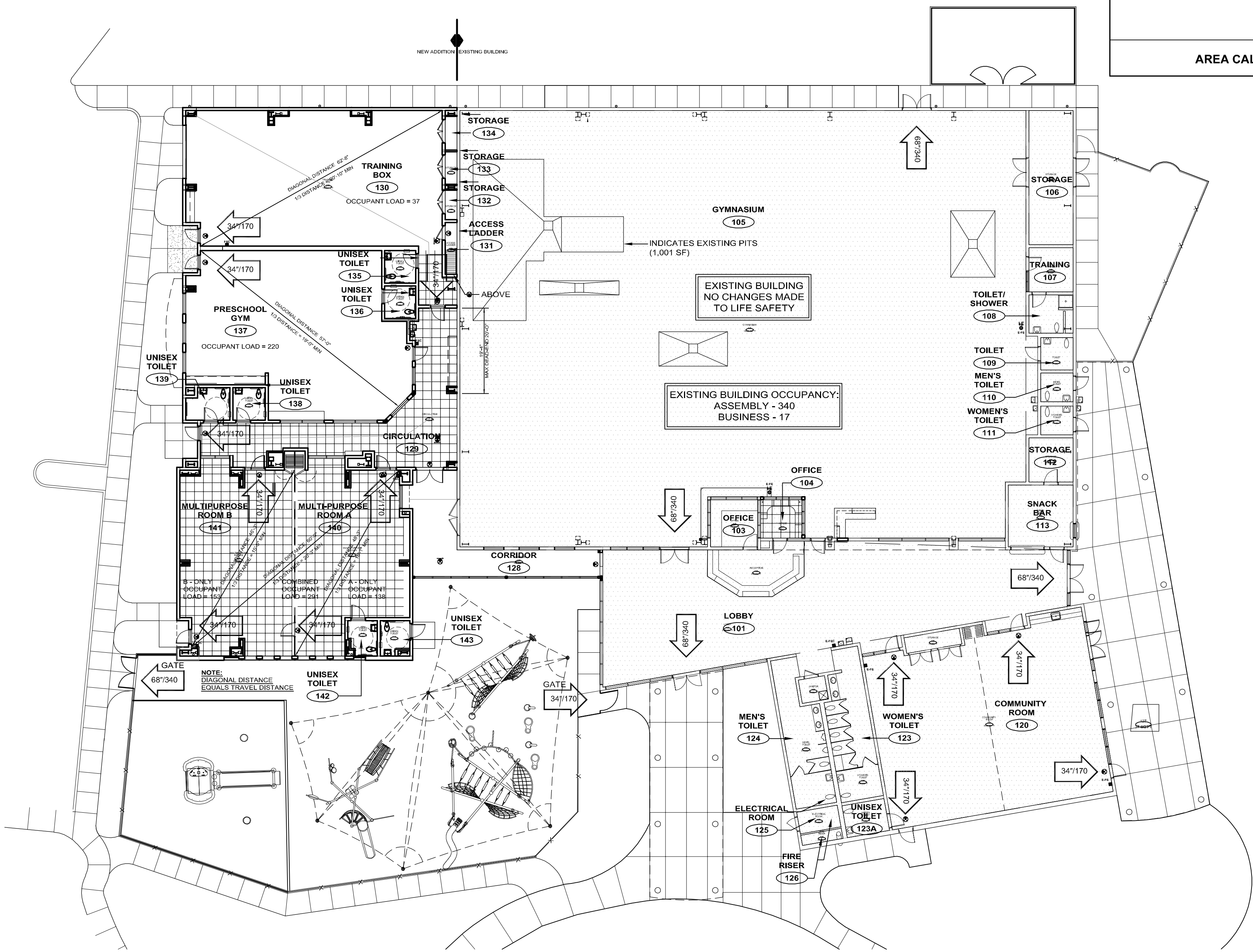
LIFE SAFETY SYMBOLS LEGEND

AREA CALCULATIONS

EXISTING GSF	19,121 SF
PROPOSED GSF	7,476 SF
TOTAL GSF	26,597 SF

AREA CALCULATIONS

PLUMBING FIXTURE CALCULATIONS



LIFE SAFETY PLAN

A1
116'x71'0"

NEW TAMPA RECREATION CENTER ADDITION

TAMPA, FL 33647

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DATE:	-
DATE:	-

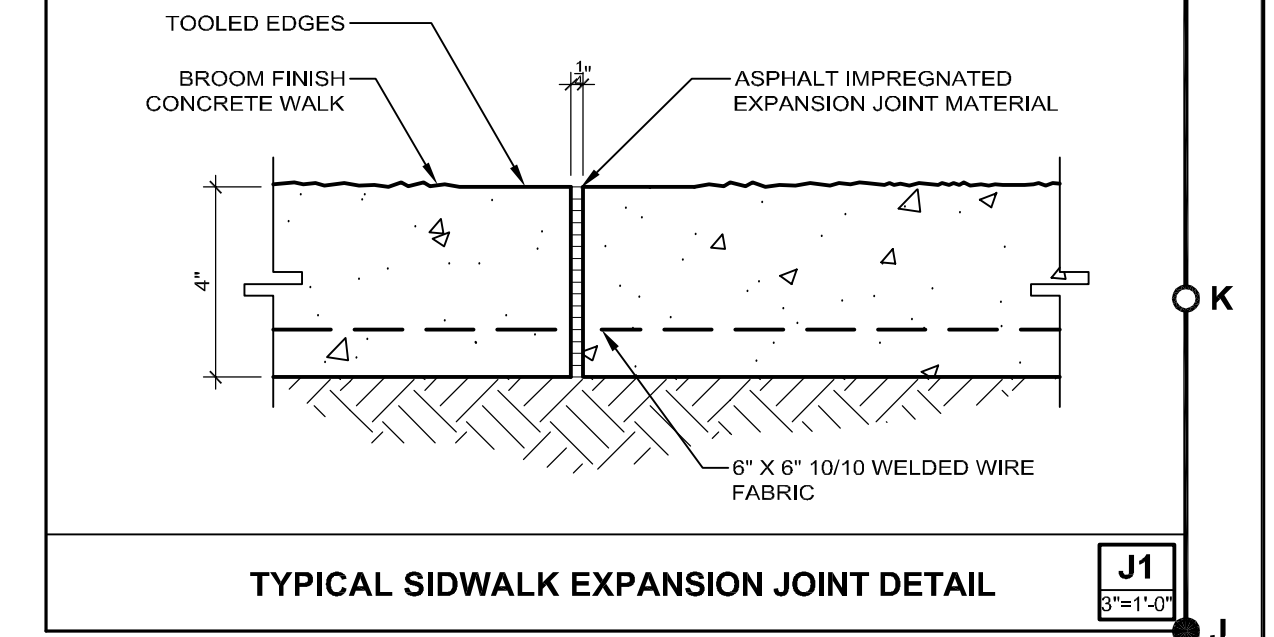
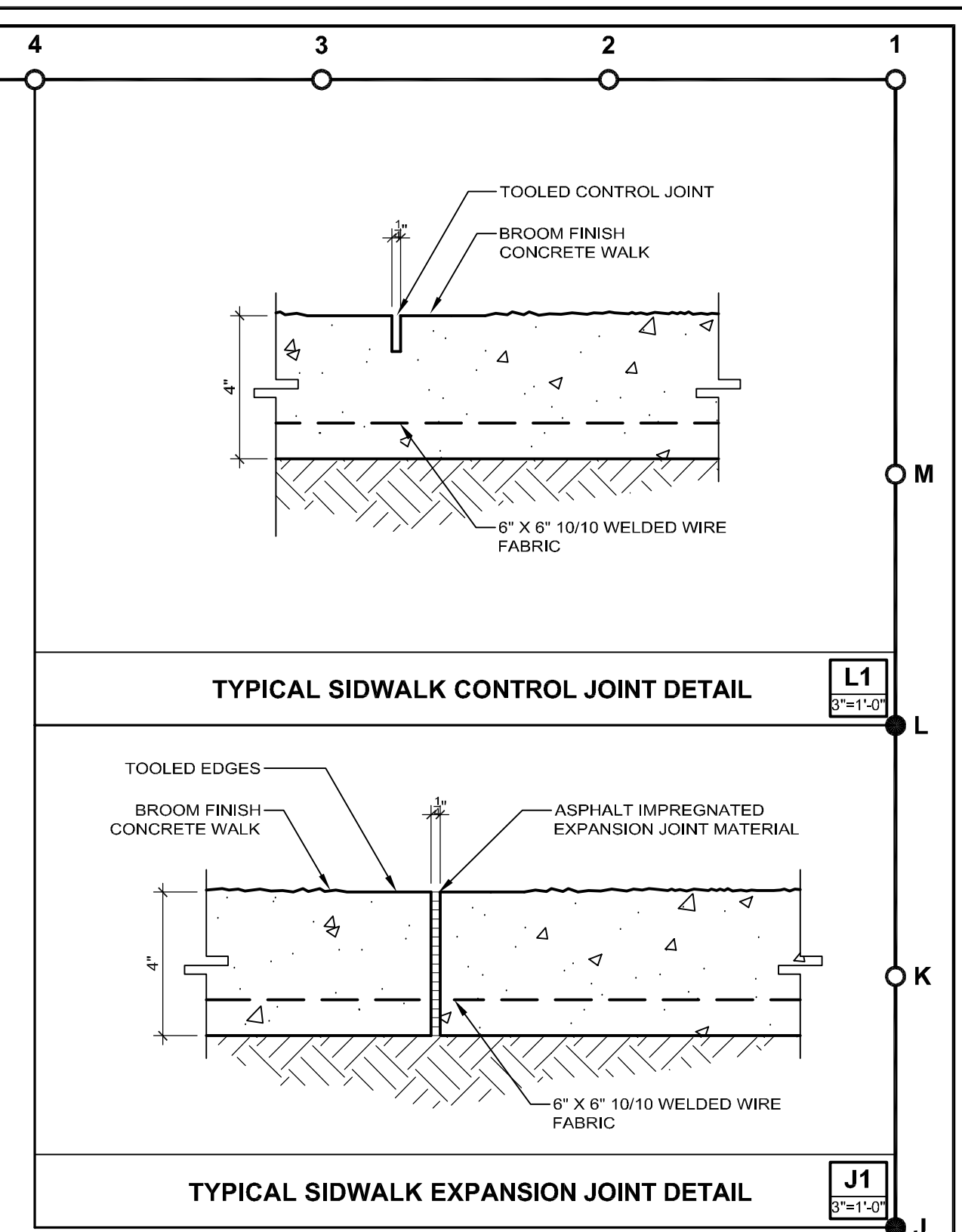
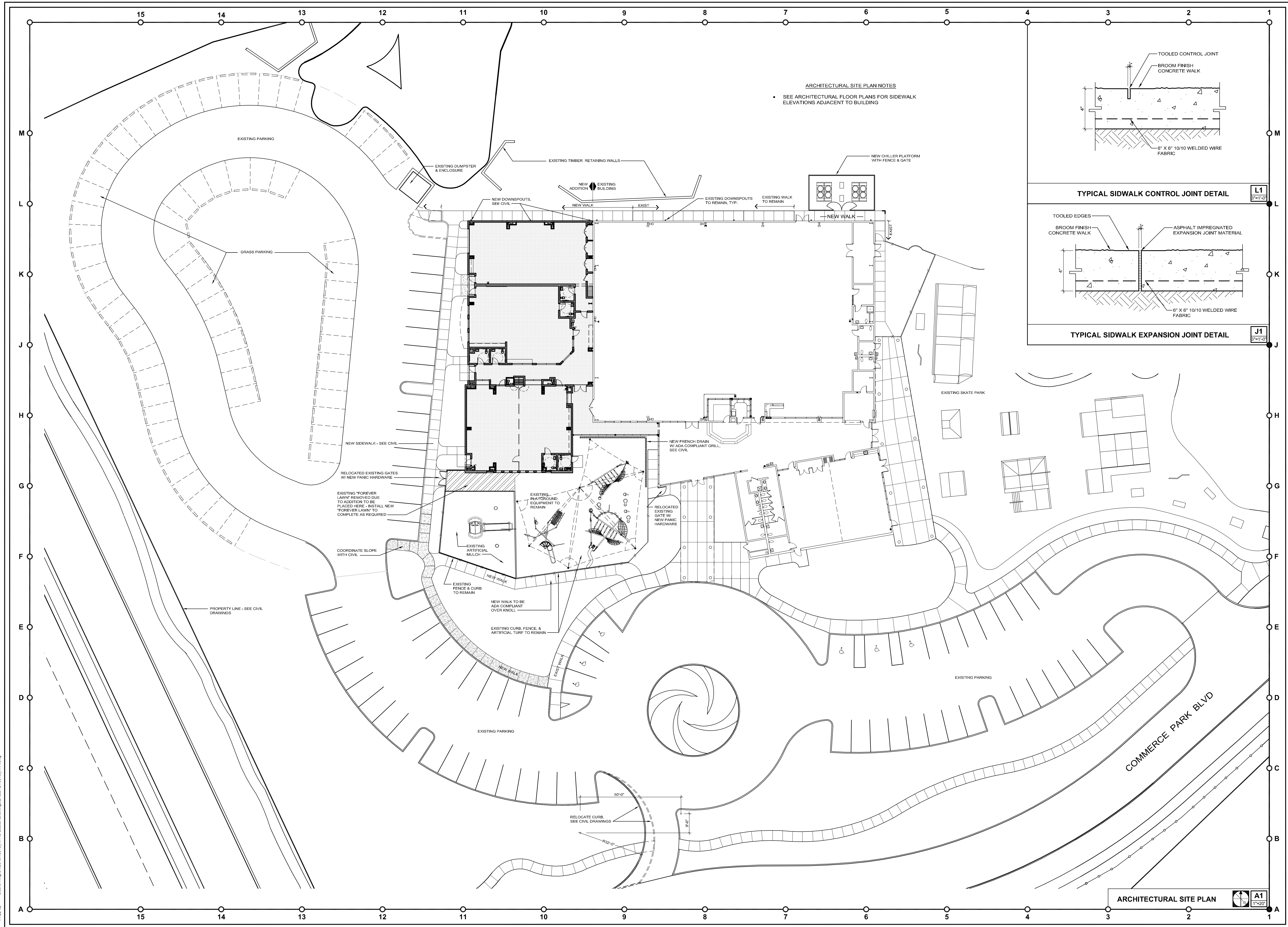
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A0.1

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ARCHITECTURAL SITE PLAN NOTES

- SEE ARCHITECTURAL FLOOR PLANS FOR SIDEWALK ELEVATIONS ADJACENT TO BUILDING



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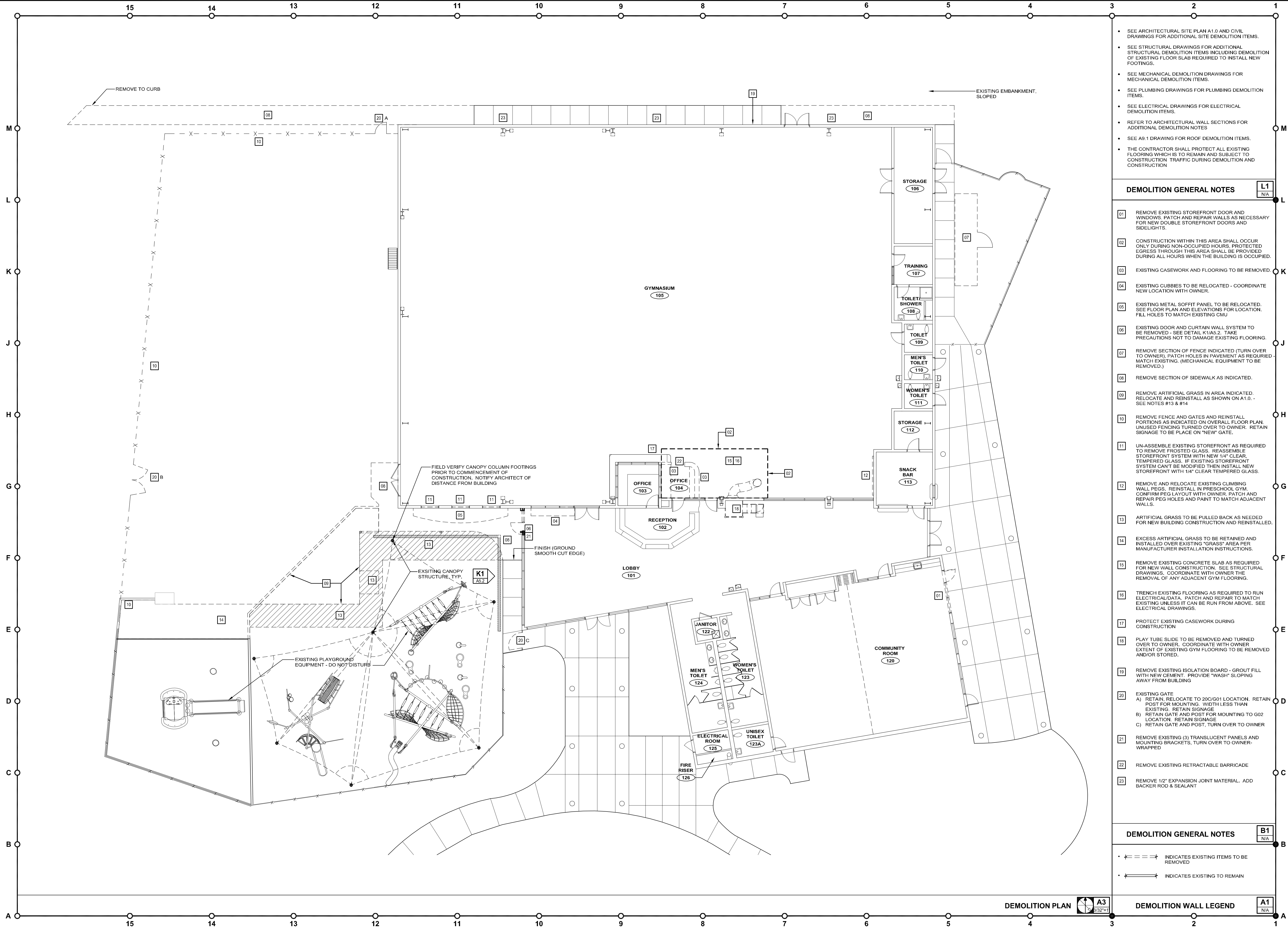
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3	DATE: _____
4	DATE: _____

SHEET NUMBER

A1.1



- SEE ARCHITECTURAL SITE PLAN A1.0 AND CIVIL DRAWINGS FOR ADDITIONAL SITE DEMOLITION ITEMS.
- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL STRUCTURAL DEMOLITION ITEMS INCLUDING DEMOLITION OF EXISTING FLOOR SLABS REQUIRED TO INSTALL NEW FOOTINGS.
- SEE MECHANICAL DEMOLITION DRAWINGS FOR MECHANICAL DEMOLITION ITEMS.
- SEE PLUMBING DRAWINGS FOR PLUMBING DEMOLITION ITEMS.
- SEE ELECTRICAL DRAWINGS FOR ELECTRICAL DEMOLITION ITEMS.
- REFER TO ARCHITECTURAL WALL SECTIONS FOR ADDITIONAL DEMOLITION NOTES
- SEE A9.1 DRAWING FOR ROOF DEMOLITION ITEMS.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING FLOORING WHICH IS TO REMAIN AND SUBJECT TO CONSTRUCTION TRAFFIC DURING DEMOLITION AND CONSTRUCTION

DEMOLITION GENERAL NOTES

- 01 REMOVE EXISTING STOREFRONT DOOR AND WINDOWS. PATCH AND REPAIR WALLS AS NECESSARY FOR NEW DOUBLE STOREFRONT DOORS AND SIDELIGHTS.
- 02 CONSTRUCTION WITHIN THIS AREA SHALL OCCUR ONLY DURING NON-OCCUPIED HOURS. PROTECTED EGRESS THROUGH THIS AREA SHALL BE PROVIDED DURING ALL HOURS WHEN THE BUILDING IS OCCUPIED.
- 03 EXISTING CASEWORK AND FLOORING TO BE REMOVED
- 04 EXISTING CUBBIES TO BE RELOCATED - COORDINATE NEW LOCATION WITH OWNER.
- 05 EXISTING METAL SOFFIT PANEL TO BE RELOCATED. SEE FLOOR PLAN AND ELEVATIONS FOR LOCATION. FILL HOLES TO MATCH EXISTING CMU
- 06 EXISTING DOOR AND CURTAIN WALL SYSTEM TO BE REMOVED - SEE DETAIL K1/A5.2. TAKE PRECAUTIONS NOT TO DAMAGE EXISTING FLOORING.
- 07 REMOVE SECTION OF FENCE INDICATED (TURN OVER TO OWNER). PATCH HOLES IN PAVEMENT AS REQUIRED - MATCH EXISTING. (MECHANICAL EQUIPMENT TO BE REMOVED.)
- 08 REMOVE SECTION OF SIDEWALK AS INDICATED.
- 09 REMOVE ARTIFICIAL GRASS IN AREA INDICATED. RELOCATE AND REINSTALL AS SHOWN ON A1.0. - SEE NOTES #13 & #14
- 10 REMOVE FENCE AND GATES AND REINSTALL PORTIONS AS INDICATED ON OVERALL FLOOR PLAN. UNUSED FENCING TURNED OVER TO OWNER. RETAIN SIGNAGE TO BE PLACED ON "NEW" GATE.
- 11 UN-ASSEMBLE EXISTING STOREFRONT AS REQUIRED TO REMOVE FROSTED GLASS. REASSEMBLE STOREFRONT SYSTEM WITH NEW 1/4" CLEAR, TEMPERED GLASS. IF EXISTING STOREFRONT SYSTEM CAN'T BE MODIFIED THEN INSTALL NEW STOREFRONT WITH 1/4" CLEAR TEMPERED GLASS.
- 12 REMOVE AND RELOCATE EXISTING CLIMBING WALL PER PRESCHOOL GYM. CONFIRM PEG LAYOUT WITH OWNER. PATCH AND REPAIR PEG HOLES AND PAINT TO MATCH ADJACENT WALLS.
- 13 ARTIFICIAL GRASS TO BE PULLED BACK AS NEEDED FOR NEW BUILDING CONSTRUCTION AND REINSTALLED.
- 14 EXCESS ARTIFICIAL GRASS TO BE RETAINED AND INSTALLED OVER EXISTING "GRASS" AREA PER MANUFACTURER INSTALLATION INSTRUCTIONS.
- 15 REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR NEW WALL CONSTRUCTION. SEE STRUCTURAL DRAWINGS. COORDINATE WITH OWNER THE REMOVAL OF ANY ADJACENT GYM FLOORING.
- 16 TRENCH EXISTING FLOORING AS REQUIRED TO RUN ELECTRICAL DATA. PATCH AND REPAIR TO MATCH EXISTING UNLESS IT CAN BE RUN FROM ABOVE. SEE ELECTRICAL DRAWINGS.
- 17 PROTECT EXISTING CASEWORK DURING CONSTRUCTION
- 18 PLAY TUBE SLIDE TO BE REMOVED AND TURNED OVER TO OWNER. COORDINATE WITH OWNER EXTENT OF EXISTING GYM FLOORING TO BE REMOVED AND/OR STORED.
- 19 REMOVE EXISTING ISOLATION BOARD - GROUT FILL WITH NEW CEMENT. PROVIDE "WASH" SLOPING AWAY FROM BUILDING
- 20 EXISTING GATE
A) RETAIN, RELOCATE TO 20C/G01 LOCATION. RETAIN POST FOR MOUNTING. WIDTH LESS THAN EXISTING. RETAIN SIGNAGE
B) RETAIN GATE AND POST FOR MOUNTING TO G02 LOCATION. RETAIN SIGNAGE
C) RETAIN GATE AND POST; TURN OVER TO OWNER
- 21 REMOVE EXISTING (3) TRANSLUCENT PANELS AND MOUNTING BRACKETS. TURN OVER TO OWNER- WRAPPED
- 22 REMOVE EXISTING RETRACTABLE BARRICADE
- 23 REMOVE 1/2" EXPANSION JOINT MATERIAL. ADD BACKER ROD & SEALANT

DEMOLITION GENERAL NOTES

- INDICATES EXISTING ITEMS TO BE REMOVED
- INDICATES EXISTING TO REMAIN

DEMOLITION WALL LEGEND

NEW TAMPA RECREATION CENTER ADDITION

TAMPA, FL 33647

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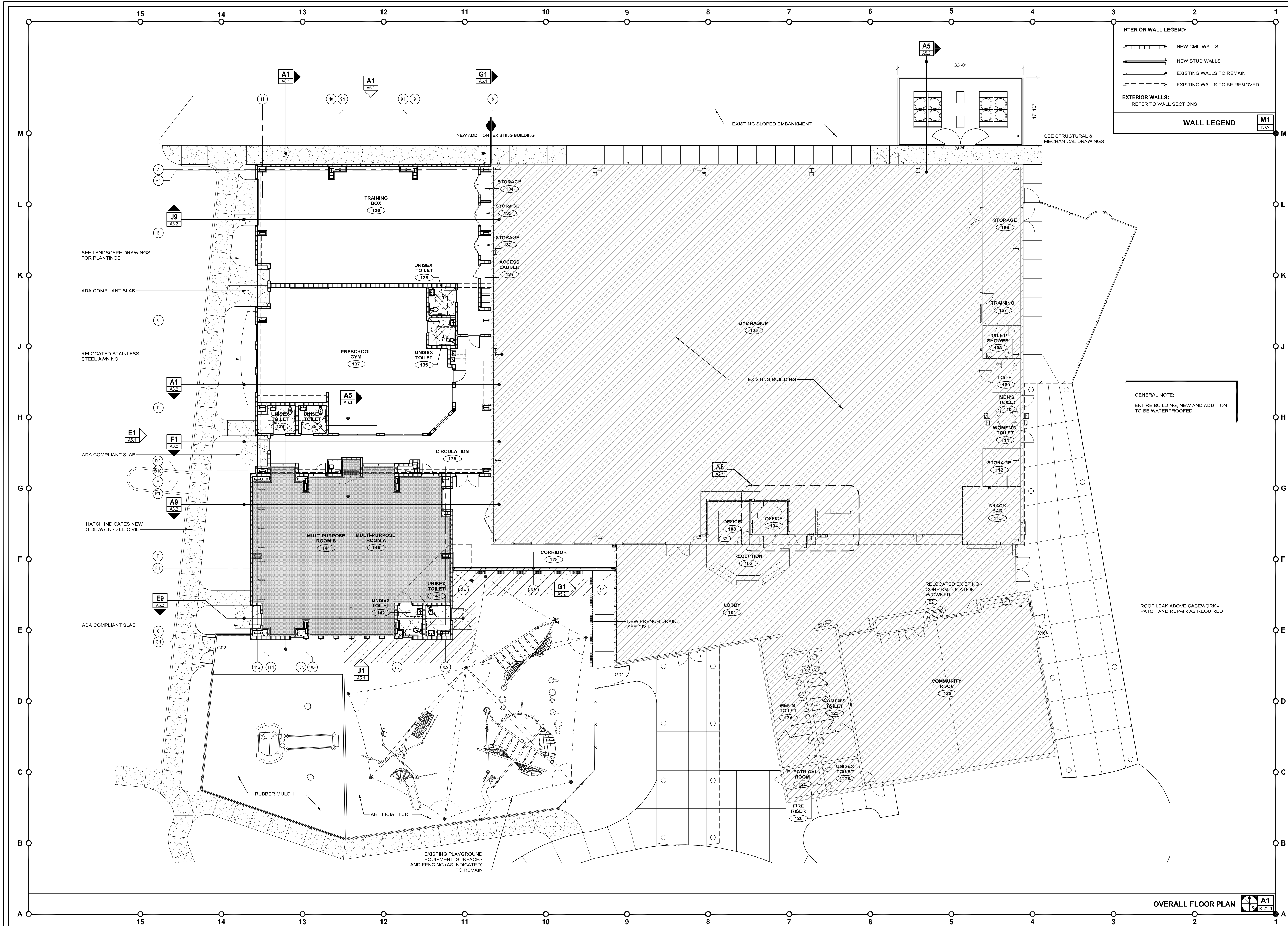
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A2.1

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GENERAL NOTE:
ENTIRE BUILDING, NEW AND ADDITION
TO BE WATERPROOFED.

INTERIOR WALL LEGEND:

- NEW CMU WALLS
- NEW STUD WALLS
- EXISTING WALLS TO REMAIN
- EXISTING WALLS TO BE REMOVED

EXTERIOR WALLS:
REFER TO WALL SECTIONS

WALL LEGEND M1
N/A

**NEW TAMPA
RECREATION CENTER
ADDITION**
TAMPA, FL 33647

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I CERTIFY TO THE BEST OF MY KNOWLEDGE THAT I AM A LICENSED PROFESSIONAL ARCHITECT IN THE STATE OF FLORIDA AND THAT I HAVE REVIEWED THIS DRAWING FOR RELEVANT BUILDING CODES.

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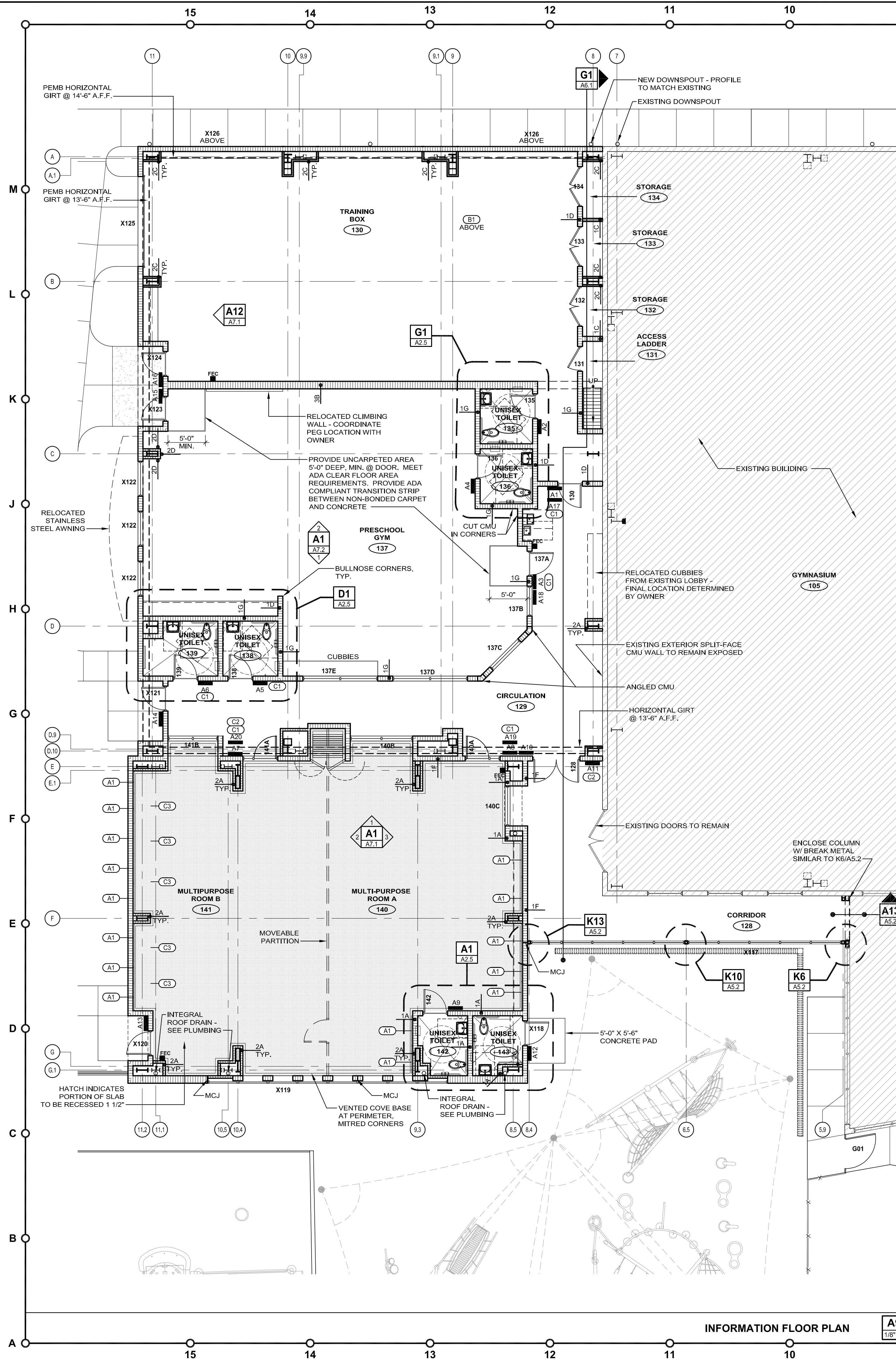
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A2.2

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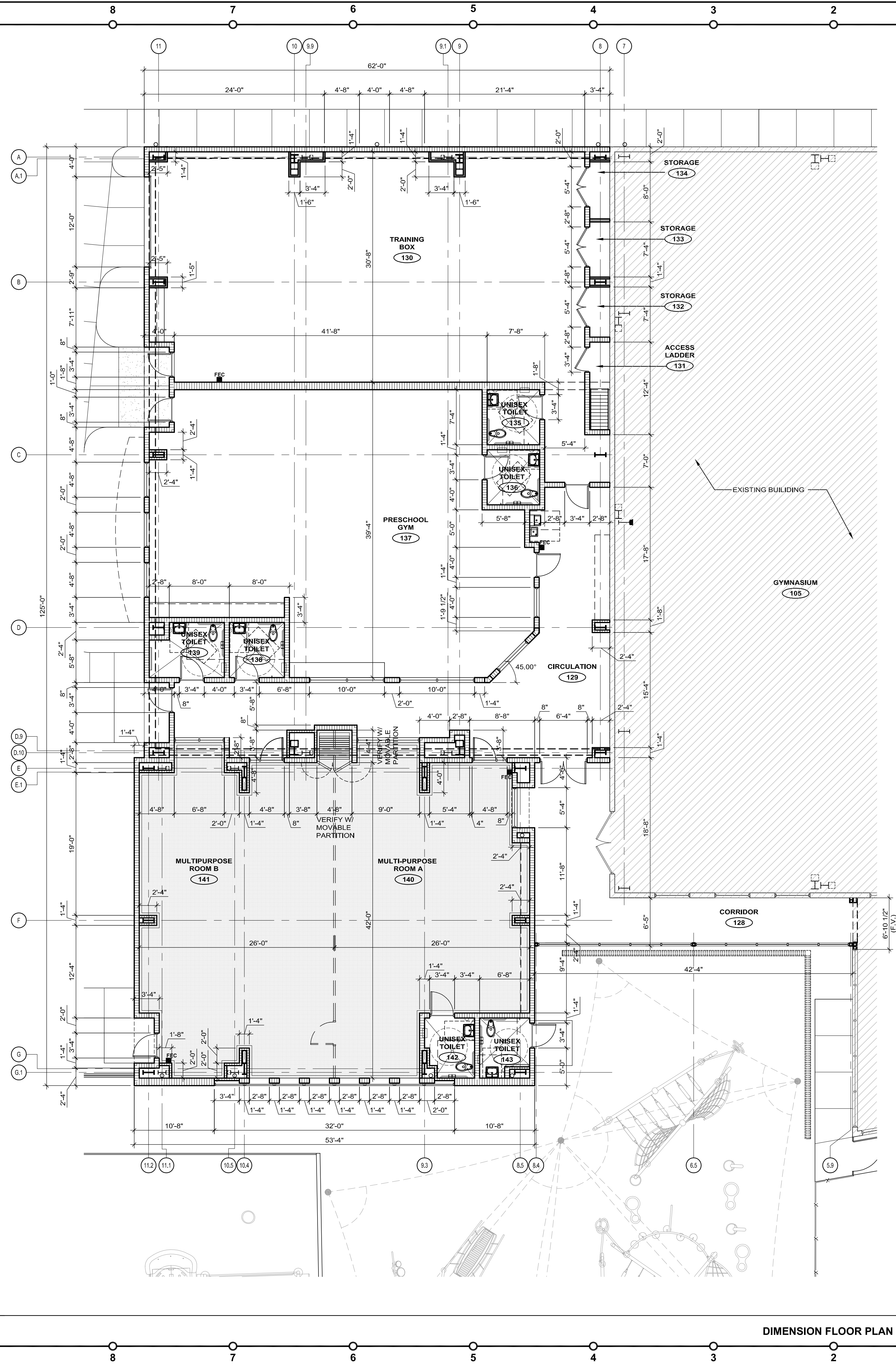
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INFORMATION FLOOR PLAN

A9
1/8"=1'-0"



DIMENSION FLOOR PLAN

A1
1/8"=1'-0"

NEW TAMPA
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ADDITION
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SHEET NUMBER
A2.3

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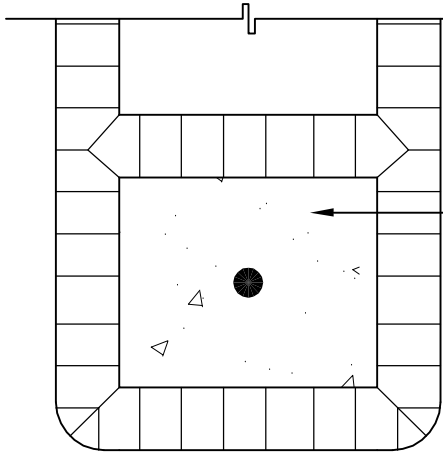
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LEGEND:	
(A) ITEMS FURNISHED & INSTALLED BY GC	
(B) ITEMS FURNISHED BY OWNER, INSTALLED BY GC	
(C) ITEMS FURNISHED & INSTALLED BY OWNER	
MARK	DESCRIPTION
(A1)	4' X 7' SECTION OF MIRROR - SECTIONS CUT SMALLER AS NEEDED
(B1)	BATTING CAGE
(B2)	"AED" AUTOMATED EXTERNAL DEFIBRILLATOR
(C1)	HAND SANITIZER DISPENSER
(C2)	24" X 24" WASTE RECEPTACLE
(C3)	PORTABLE BALLET BARRE

FURNITURE AND/OR EQUIPMENT SCHEDULE

K13
1/4"=1'



TYPICAL CMU BULLNOSE DETAIL

L10
3"=1'

WALL LEGEND

L8
N/A

GENERAL DIMENSIONING NOTES

L6
N/A

INTERIOR WALL LEGEND:

- NEW CMU WALLS
EXISTING WALLS TO REMAIN
EXISTING WALLS TO BE REMOVED

EXTERIOR WALLS:
REFER TO WALL SECTIONS

THE FOLLOWING DESIGNATION, WHEN INCLUDED WITHIN NEW WALLS, GRAPHICALLY INDICATE FIRE RATED WALLS WITH RATINGS AS LISTED BELOW:

- 1 HR FIRE RATING
2 HR FIRE RATING
3 HR FIRE RATING
4 HR FIRE RATING OR SMOKE BARRIER

- A. DIMENSIONS LOCATING NEW EXTERIOR MASONRY WALLS ARE TO EXTERIOR FACE OF MASONRY SUBSTRATE.
A. DIMENSIONS LOCATING NEW EXTERIOR STUD WALLS ARE TO EXTERIOR FACE OF THE STUDS.
B. DIMENSIONS LOCATING NEW INTERIOR MASONRY WALLS ARE TO FACE OF MASONRY.
C. DIMENSIONS LOCATING NEW INTERIOR STUD WALLS ARE TO FINISHED WALL SURFACES.
D. DIMENSIONS TO EXISTING WALLS ARE TO THE FINISHED WALL SURFACES.
E. OPENINGS NOT LOCATED BY DIMENSION IN INTERIOR WALLS AND NOT ABUTTING ADJACENT WALLS ARE TO BE CENTERED ON THE WALL, UNLESS INDICATED OTHERWISE.
F. IF THE LOCATION OF ANY BUILDING ELEMENT IS NOT OBVIOUS OR CANNOT BE DETERMINED BY DIMENSION, MATHEMATICS, OR AS NOTED ABOVE, CONTACT THE ARCHITECT PRIOR TO LOCATING THE ELEMENT.

FIRST FLOOR ROOMS

RM NO.	ROOM NAME	FLOOR	BASE	WALL	CEILING	CLG HT	REMARKS
101	LOBBY	VCT	RB	PNT	APC	10'-0"	EXISTING TO REMAIN
102	RECEPTION						
103	OFFICE						
104	OFFICE						
105	GYMNASIUM						
106	STORAGE						
107	TRAINING						
108	TOILET/SHOWER						
109	TOILET						
110	MEN'S TOILET						
111	WOMEN'S TOILET	DF	VCB	PNT	APC	12'-0"	EXISTING TO REMAIN
112	STORAGE						
113	SNACK BAR						
120	COMMUNITY ROOM						
121	STORAGE						
122	JANITOR						
123	WOMEN'S TOILET						
123A	UNISEX TOILET						
124	MEN'S TOILET						
125	ELECTRICAL ROOM						
126	FIRE RISER	VCT	RB	PNT	ES/PNT	-	1, 5
127	NOT USED						
128	CORRIDOR						
129	CIRCULATION						
130	TRAINING BOX						
131	ACCESS LADDER						
132	STORAGE						
133	STORAGE						
134	STORAGE						
135	UNISEX TOILET						
136	UNISEX TOILET	RF	RF	PNT	PNT	8'-0"	2, 3, 6
137	PRESCHOOL GYM						
138	UNISEX TOILET						
139	UNISEX TOILET						
139	UNISEX TOILET						
140	MULTI-PURPOSE ROOM A						
141	MULTI-PURPOSE ROOM B						
142	UNISEX TOILET						
143	UNISEX TOILET						
144	UNISEX TOILET						

REMARKS:

1. SEE A5/A3.1 FOR TILE PATTERN
2. CONCRETE TO BE SEALED BEFORE FLOORING IS PLACED
3. REMOVABLE CARPET BONDED FOAM, SIMILAR TO EXISTING GYM
4. VENTED COVE BASE AS PROVIDED BY FLOOR MANUFACTURER
5. EXISTING EXTERIOR WALL THAT IS EXPOSED TO REMAIN AS IS, NO PAINT
6. NEW EXTERIOR WALLS NOT TO BE PAINTED. CMU BANDING TO BE VISIBLE
7. FLOORING TO BE HEAVY DUTY STUDIO DANCE FLOOR ON SSV SUB FLOOR

ROOM FINISH SCHEDULE

G1
N/A

WALL TYPE CODES	PLAN SECTION	DESCRIPTION	FIRE RATED WALLS		ACOUSTIC WALLS	
			RA-TING	DTL	STC	DESIGN REFERENCE
1 (TYP)		8" CMU - SEE STRUCTURAL FOR REINFORCING	N/A			
2		4" CMU - SEE STRUCTURAL FOR REINFORCING	N/A			
3		12" CMU - SEE STRUCTURAL FOR REINFORCING	N/A			
4		3-5/8" METAL STUDS @ 16" OC WITH 5/8" ABUSE RESISTANT GYPSUM BOARD ON EACH SIDE	N/A			
5		2-1/2" METAL STUDS @ 16" OC WITH 5/8" ABUSE RESISTANT GYPSUM BOARD ON EACH SIDE	N/A			

WALL SYMBOL CODE (SEE FLOOR PLAN):

- NUMBER INDICATES WALL TYPE. SEE WALL TYPE CODES IN TABLE
LETTER INDICATES WALL HEIGHT. SEE WALL HEIGHT CODES

WALL HEIGHT CODES:

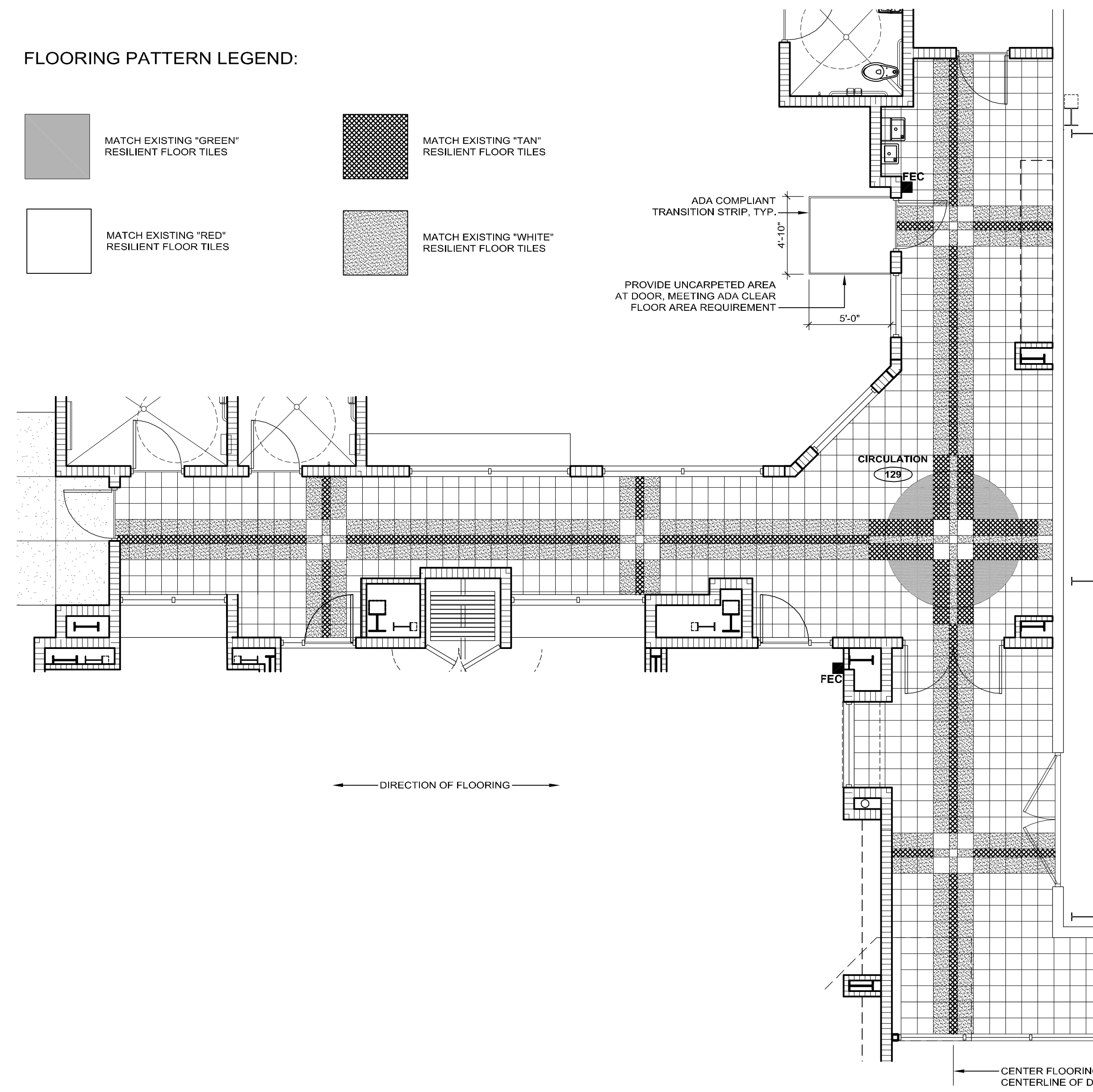
- A WALL EXTENDS TO 1 BLOCK COURSE ABOVE CEILING
B WALL EXTENDS TO FULL HEIGHT OF DECK ABOVE
C WALL HEIGHT IS 8'-0"
D WALL HEIGHT IS 9'-4"
E WALL HEIGHT IS 10'-4"
F WALL HEIGHT IS 16'-0"
G WALL HEIGHT IS 17'-0"

INTERIOR WALL TYPE SCHEDULE

C1
N/A

FLOORING PATTERN LEGEND:

- MATCH EXISTING "GREEN" RESILIENT FLOOR TILES
MATCH EXISTING "TAN" RESILIENT FLOOR TILES
MATCH EXISTING "RED" RESILIENT FLOOR TILES
MATCH EXISTING "WHITE" RESILIENT FLOOR TILES



WALL SCHEDULE NOTES:

- A. WALLS WITHOUT WALL TAGS ARE TO BE CONSTRUCTED BASED ON WALL CODE 1A TYPICAL.
B. THE FOLLOWING INTERIOR WALL FINISH SUBSTRATES ARE TO BE PROVIDED IN LIEU OF GYPSUM BOARD (IN LIKE THICKNESSES):
• MOISTURE RESISTANT GYPSUM BOARD ON FIXTURE SIDE OF ALL PLUMBING WALLS
• CEMENTITIOUS TILE BACKER BOARD ON SIDE OF WALLS SCHEDULED TO RECEIVE CERAMIC TILE
• ABUSE RESISTANT GYPSUM BOARD WHERE INDICATED ON FLOOR PLAN
C. REFERENCES HEREIN TO FIRE RATINGS APPLY ONLY TO WALLS GRAPHICALLY DESIGNATED IN PLAN TO BE FIRE RATED IN ACCORDANCE WITH THE "WALL LEGEND."
D. WALL TYPE INDICATED SHALL CONTINUE OVER DOOR OPENINGS AND OVER/BELOW GLAZED OPENINGS OR WINDOWS AS REQD. COORDINATE WITH FRAME DETAILS.
E. WALL TYPES LISTED HEREIN WITH AN STC RATING ARE CONSIDERED TO BE "ACOUSTIC WALLS."
F. STC RATINGS INDICATED HEREIN ARE DERIVED FROM THE LABORATORY TEST INDICATED IN THE "DESIGN REFERENCE" COLUMN. TEST SOURCES ARE AS FOLLOWS:
USG, SA, BBN: UNITED STATES GYPSUM
NGC: NATIONAL GYPSUM COMPANY
KAL: KODARAS ACOUSTICAL LABS
TL: ETL-SEMKO
G. CONSTRUCT ACOUSTIC WALLS TO COMPLY WITH THE FOLLOWING REQUIREMENTS:
1. FILL ALL WALL PENETRATIONS W/ BATT INSULATION AND SEAL W/ ACOUSTICAL SEALANT.
2. STAGGER ELECTRICAL BOXES A MINIMUM OF 16".
3. APPLY ACOUSTIC SEALANT AT PERIMETER OF STUD WALLS
4. GYPSUM BOARD FASTENERS MUST NOT CONTACT MASONRY ON CMU WALLS HAVING GYP BD ON FURRING STRIPS.

FLOORING TILE PATTERN

A1
2/16"=1'

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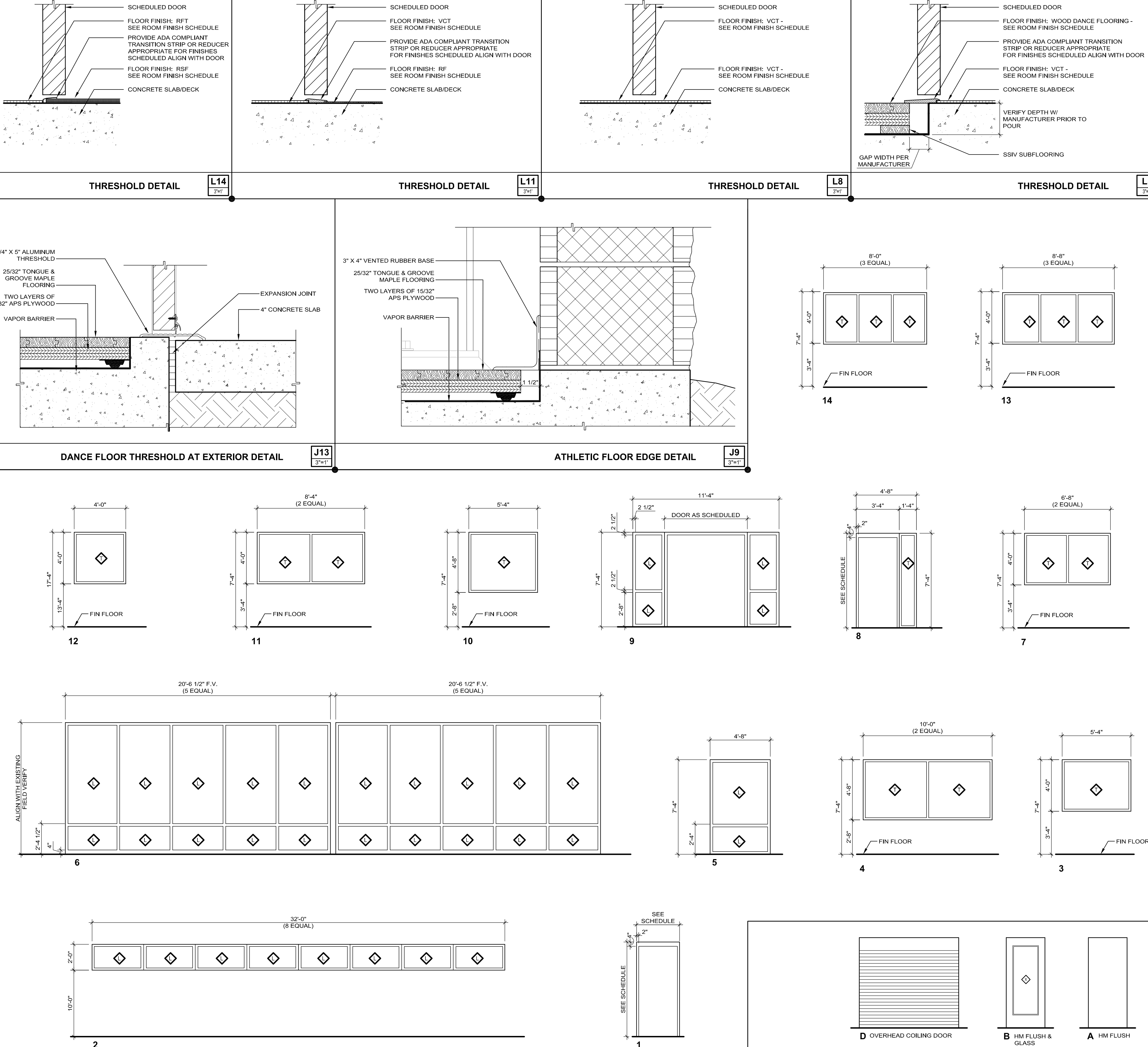
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A3.1

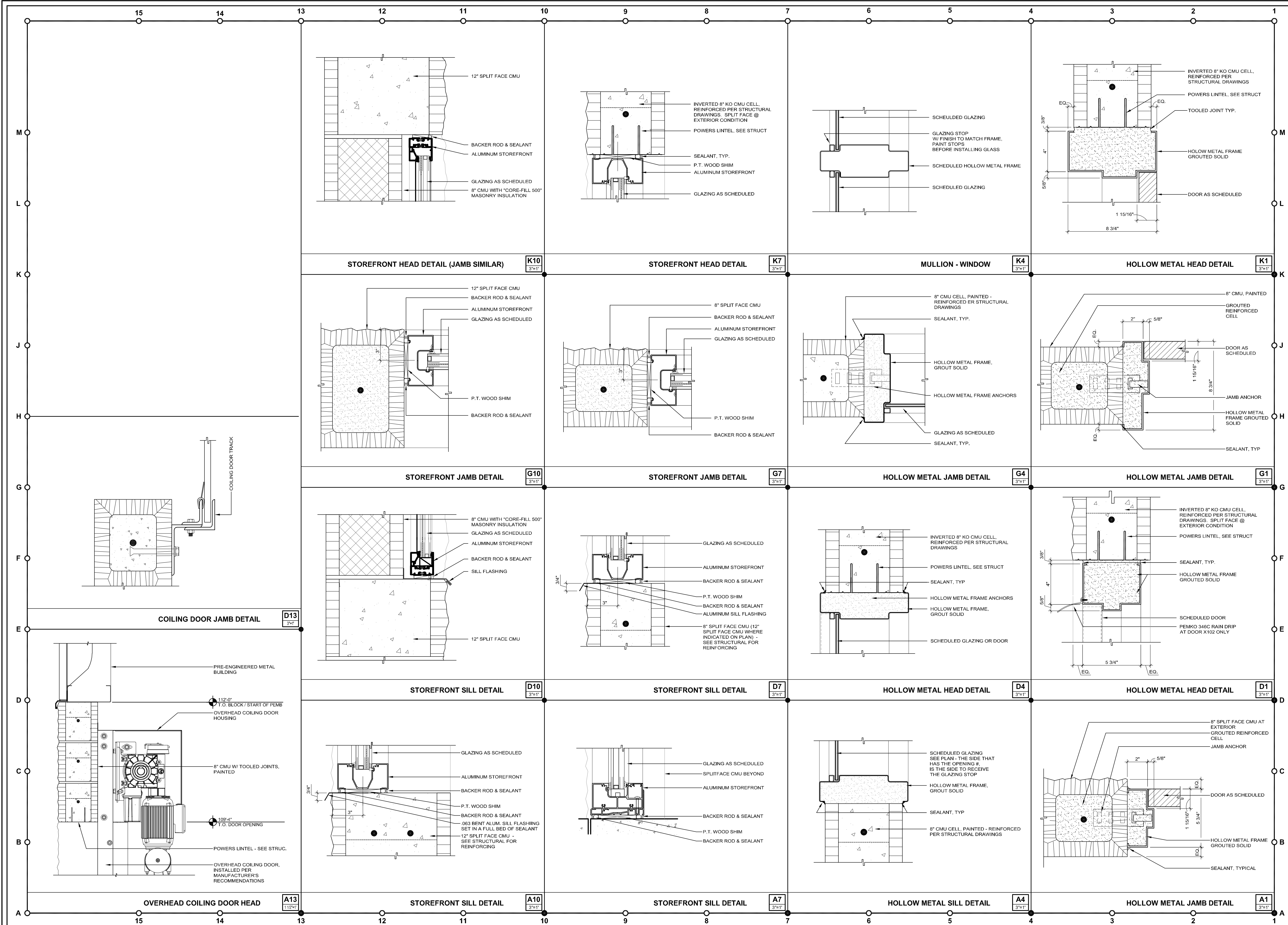
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FAX (813) 725-1204
REGISTRATION NUMBER AA 000123

[illegible]

OPNG NO	FIRE RATING	HDW	DOOR			FRAME							REMARKS	
			TYPE	WIDTH	HEIGHT	TYPE	MAT'L	JAMB	HEAD	SILL	MUL	THR		
104A						13	HM	G4 A4.2	G4 A4.2	D4 A4.2	A4 A4.2	K4 A4.2		
104B						14	HM	G4 A4.2	G4 A4.2	D4 A4.2	A4 A4.2	K4 A4.2		
128			B	PR. 3'-0"	7'-0"	1	HM	G1 A4.2	G1 A4.2	K1 A4.2				
130			B	3'-0"	7'-0"	1	HM	G1 A4.2	G1 A4.2	K1 A4.2				
131			A	3'-0"	7'-0"	1	HM	G1 A4.2	G1 A4.2	K1 A4.2				
132			A	PR 2'-6"	7'-0"	1	HM	G1 A4.2	G1 A4.2	K1 A4.2				
133			A	PR 2'-6"	7'-0"	1	HM	G1 A4.2	G1 A4.2	K1 A4.2				
134			A	PR 2'-6"	7'-0"	1	HM	G1 A4.2	G1 A4.2	K1 A4.2				
135			A	3'-0"	7'-0"	1	HM	G1 A4.2	G1 A4.2	K1 A4.2				
136			A	3'-0"	7'-0"	1	HM	G1 A4.2	G1 A4.2	K1 A4.2			L14 A4.1	
137A			B	3'-0"	7'-0"	1	HM	G1 A4.2	G1 A4.2	K1 A4.2			L14 A4.1	
137B						10	HM	G4 A4.2	G4 A4.2	D4 A4.2	A4 A4.2			1
137C						10	HM	G4 A4.2	G4 A4.2	D4 A4.2	A4 A4.2			1
137D						4	HM	G4 A4.2	G4 A4.2	D4 A4.2	A4 A4.2	K4 A4.2		1
137E						4	HM	G4 A4.2	G4 A4.2	D4 A4.2	A4 A4.2	K4 A4.2		1
			A	3'-0"	7'-0"	1	HM	G1 A4.2	G1 A4.2	K1 A4.2			L11 A4.1	
139			A	3'-0"	7'-0"	1	HM	G1 A4.2	G1 A4.2	K1 A4.2			L11 A4.1	
140A			B	3'-0"	7'-0"	8	HM	G1 A4.2	G4 A4.2	K1 A4.2			L5 A4.1	
140B						11	HM	G4 A4.2	G4 A4.2	D4 A4.2	A4 A4.2	K4 A4.2		1
140C						3	HM	G4 A4.2	G4 A4.2	D4 A4.2	A4 A4.2			1
141A			B	3'-0"	7'-0"	8	HM	G1 A4.2	G4 A4.2	K1 A4.2			L5 A4.1	
141B						7	HM	G4 A4.2	G4 A4.2	D4 A4.2	A4 A4.2	K4 A4.2		1
142			A	3'-0"	7'-0"	1	HM	G1 A4.2	G1 A4.2	K1 A4.2				

SCHEDULE NOTES:	SCHEDULE REMARKS:
A. DOOR THICKNESS = 1 3/4", TYPICAL	1. WINDOWS TO HAVE ONE-WAY MIRROR/REFLECTIVE FILM APPLIED, REFLECTIVE SIDE TO FACE ROOM ALLOWING OBSCURED VIEWING FROM CIRCULATION.
B. WOOD DOORS ARE SOLID CORE, TYPICAL	
C. REFER TO "PA" DRAWINGS FOR FURTHER INFORMATION ON WIND SPEED DESIGN CRITERIA.	
D. DIMENSIONS VERTICALLY LOCATING GLAZED OPENINGS ARE FROM FINISH FLOOR	2. G01 & G02 TO HAVE MINIMUM 32" CLEAR PASSAGE AND MATCH EXISTING FENCE. GATES TO HAVE PANIC HARDWARE.
E. WHEN FINISH ELEVATIONS ON OPPOSITE SIDES OF A DOOR ARE DIFFERENT, FRAME SHALL EXTEND PAST THE HIGHER FLOORING TO THE LOWER FLOOR ELEVATION.	3. EXISTING GATE FROM BACK RELOCATED.
F. FRAME AND LOUVER PROFILES ARE INTENDED TO BE GENERIC, NOT REPRESENT A PARTICULAR MANUFACTURER OR PRODUCT	4. CHAIN LINK GATES TO MATCH EXISTENCE.
SEE NOTE #11 ON SHEET A2.1	

OPENING SCHEDULE	A1
	N/A



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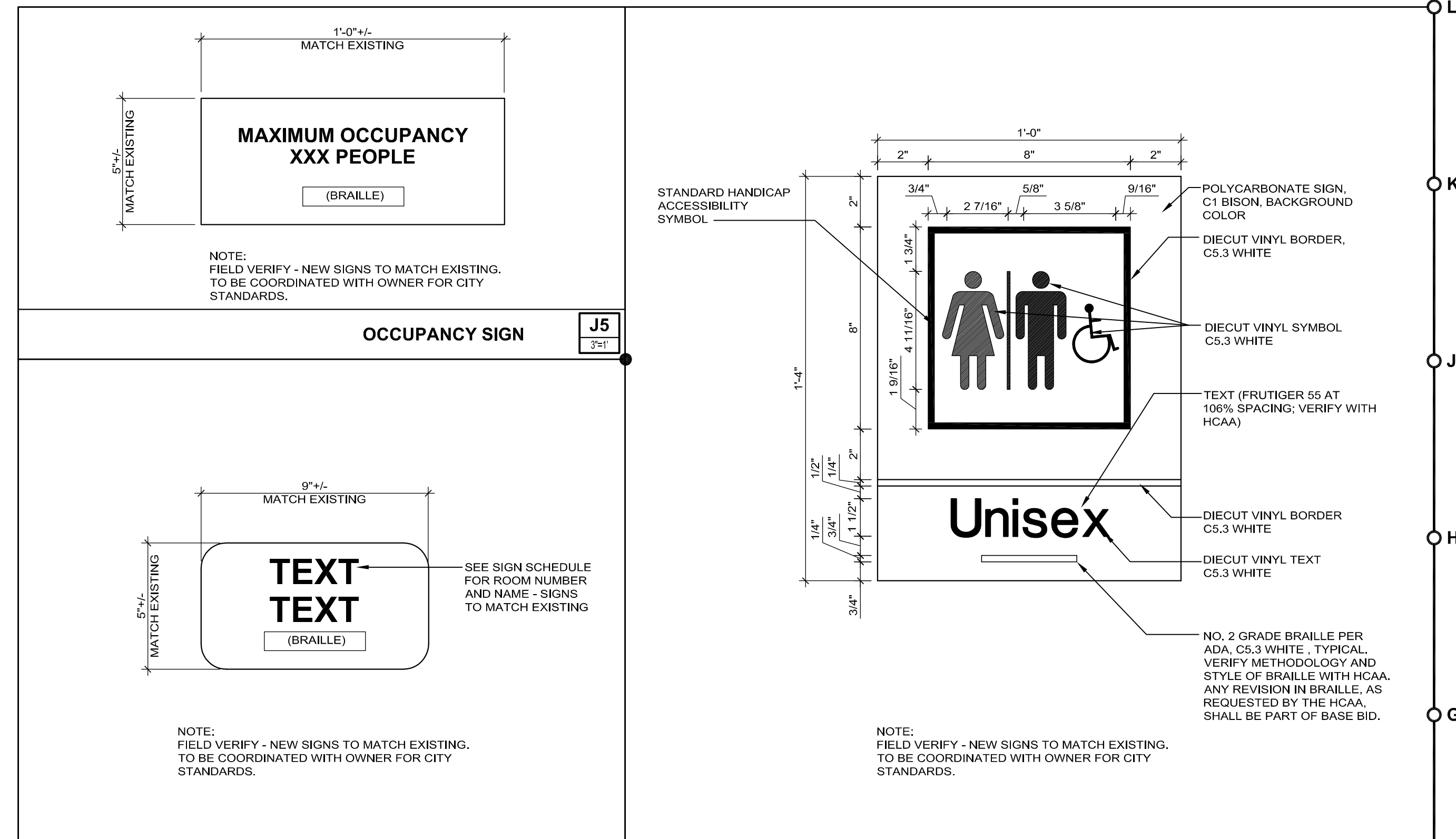
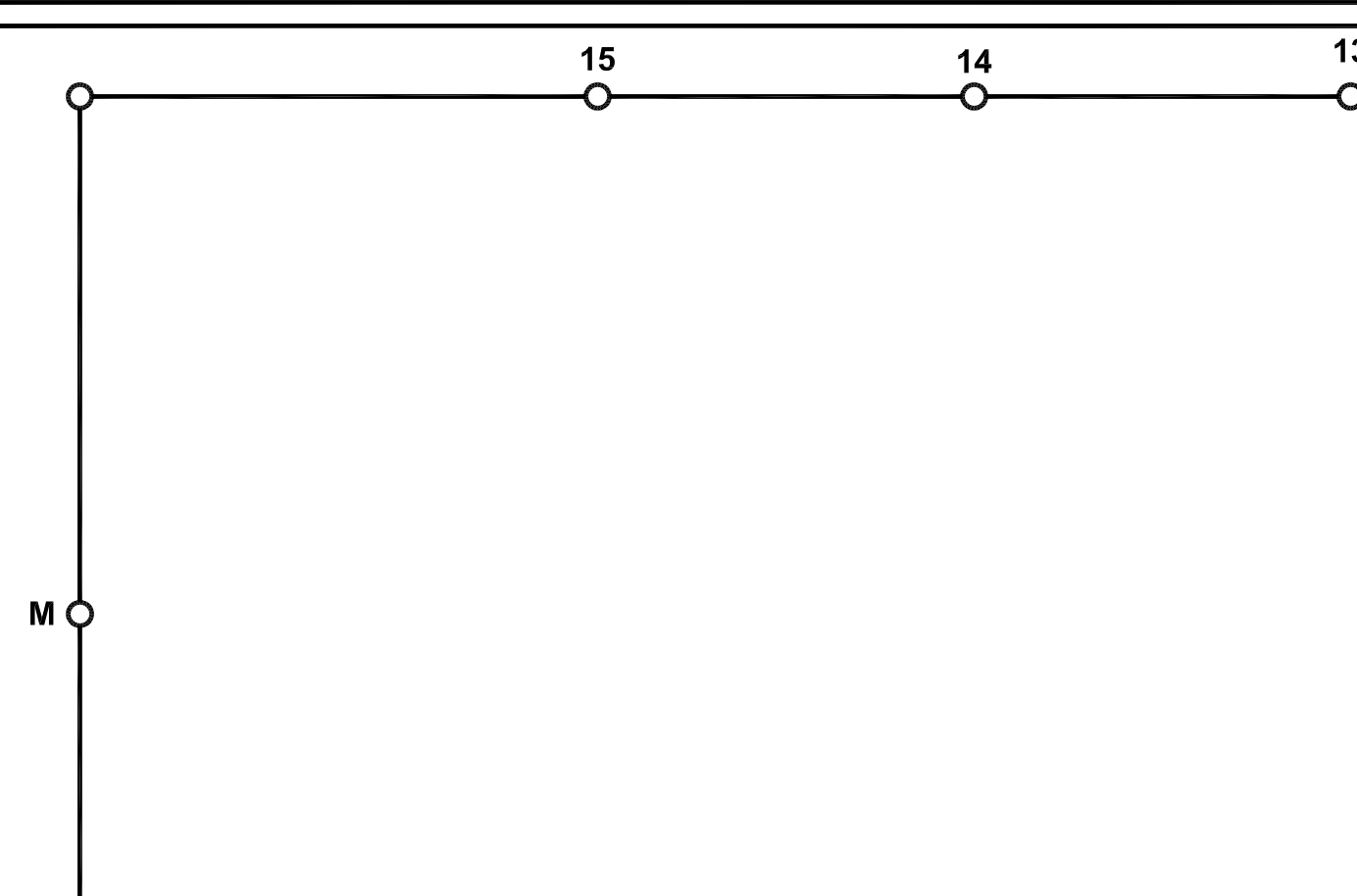
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A4.2



SIGN ID	DETAIL SIGN TYPE	SIGN TEXT
A1	F5 A4.3	130 TRAINING BOX
A2	F1 A4.3	135 UNISEX
A3	F5 A4.3	137 PRESCHOOL GYM
A4	F1 A4.3	138 UNISEX
A5	F1 A4.3	138 UNISEX
A6	F1 A4.3	139 UNISEX
A7	F5 A4.3	141 MULTIPURPOSE ROOM B
A8	F5 A4.3	140 MULTIPURPOSE ROOM A
A9	F1 A4.3	142 UNISEX
A10	F5 A4.3	128 CORRIDOR
A11	F5 A4.3	129 CIRCULATION
A12	F1	143

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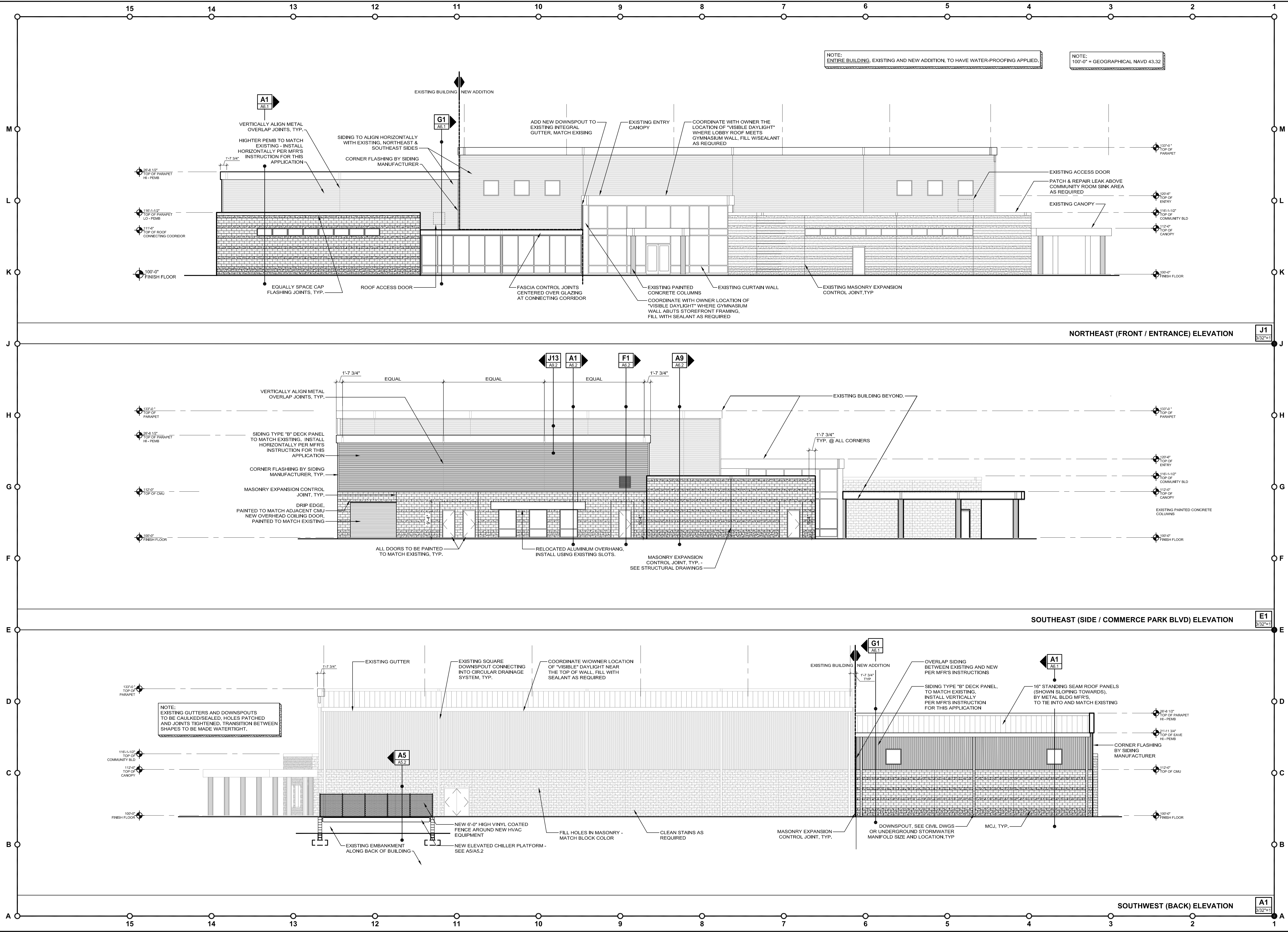
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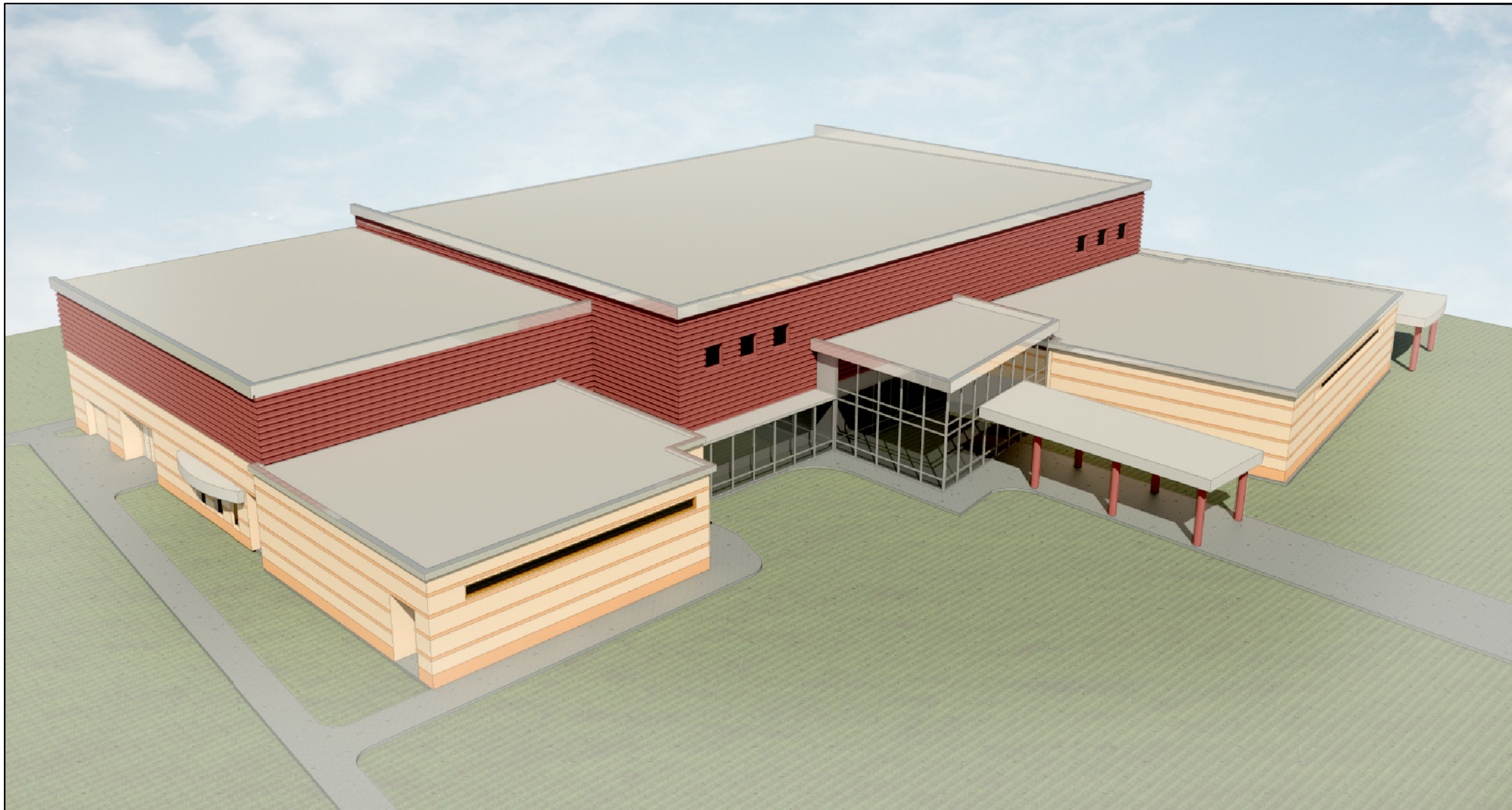
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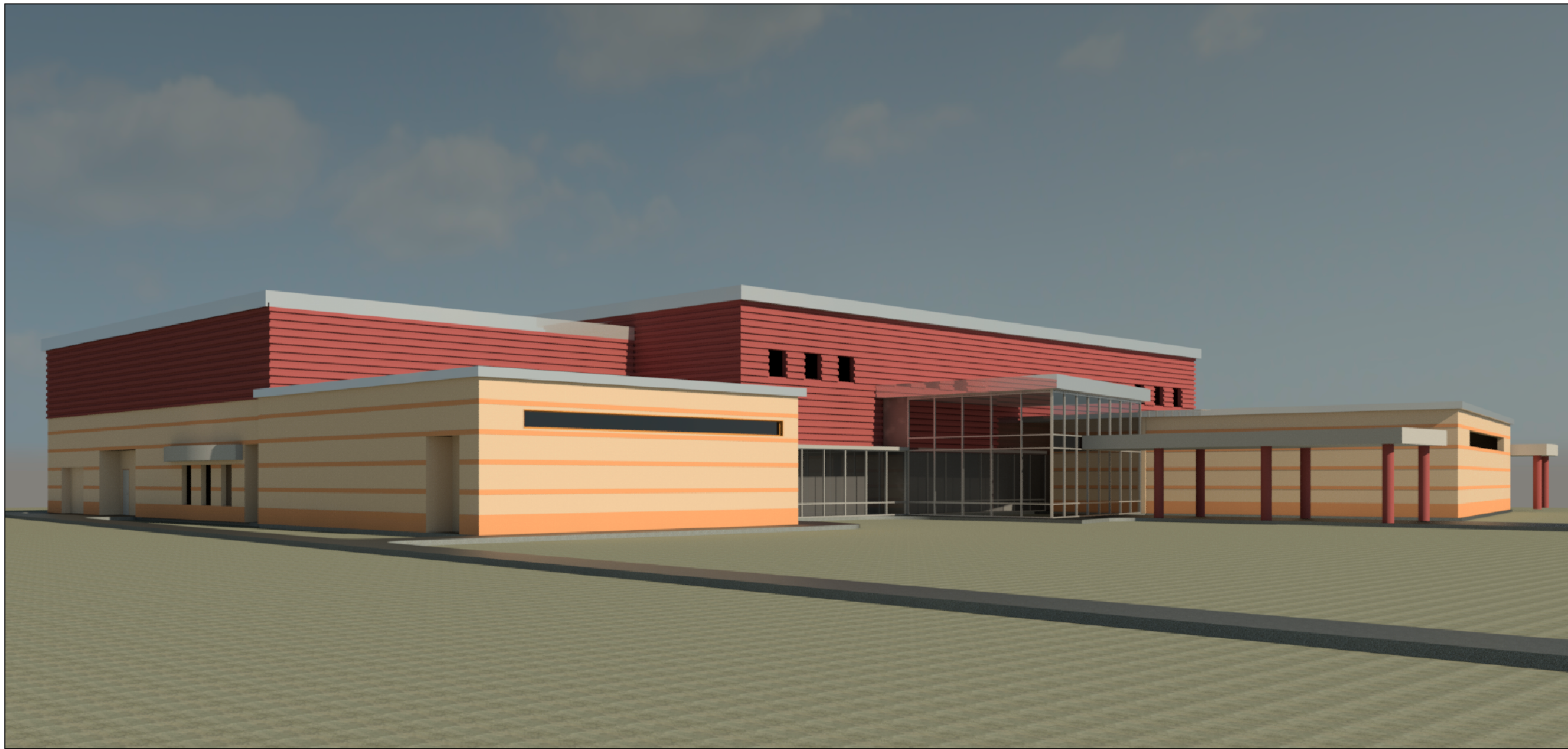


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RENDERING - AERIAL VIEW

G1
NTS



RENDERING - GROUND VIEW

A1
NTS

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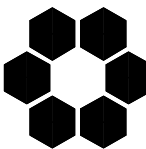
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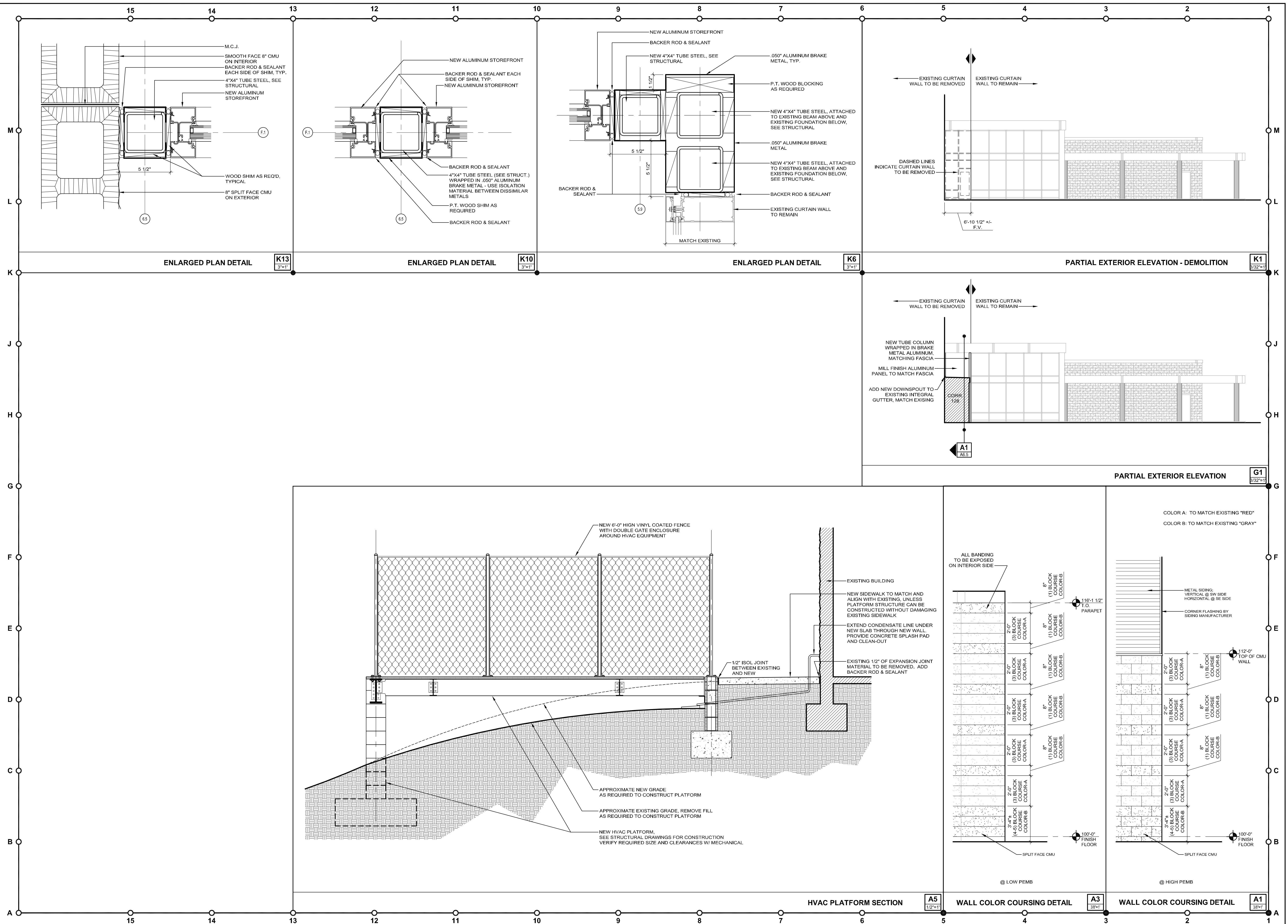
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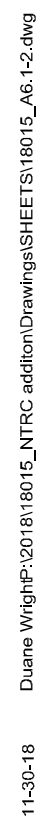
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A5.1A



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NOTE:
ALL EXPOSED METAL, COLUMNS, GIRTS, PURLINS,
ETC SHALL BE PAINTED W/ (2) TWO COLOR SCHEME
TO MATCH ADJACENT WALL. PAINT TO CONTAIN
RUST INHIBITOR. ALL EXPOSED METAL TO HAVE
GRAY FACTORY APPLIED PRIMER.

- EXISTING BUILDING BEYOND
- EXISTING 2'-0" TALL BENT
.063 ALUM FASCIA PANEL
- EXISTING SIDING TYPE "B" DECK PANEL

— EXISTING CORNER FLASHING

EXISTING CURTAIN WALL BEYOND

EXISTING BUILDING BEYOND

A1

A6.4

120'-6"

EXISTING TOP OF ENTR

11'-0" - 11'-1" TOP OF STEEL

TOP OF STOREFRONT TO ALIGN W/ EXIST

NEW FRENCH DRAIN, SEE CIVIL

10'-0" FINISH FLOOR

BUILDING SECTION

G1
$3/16''=1'$

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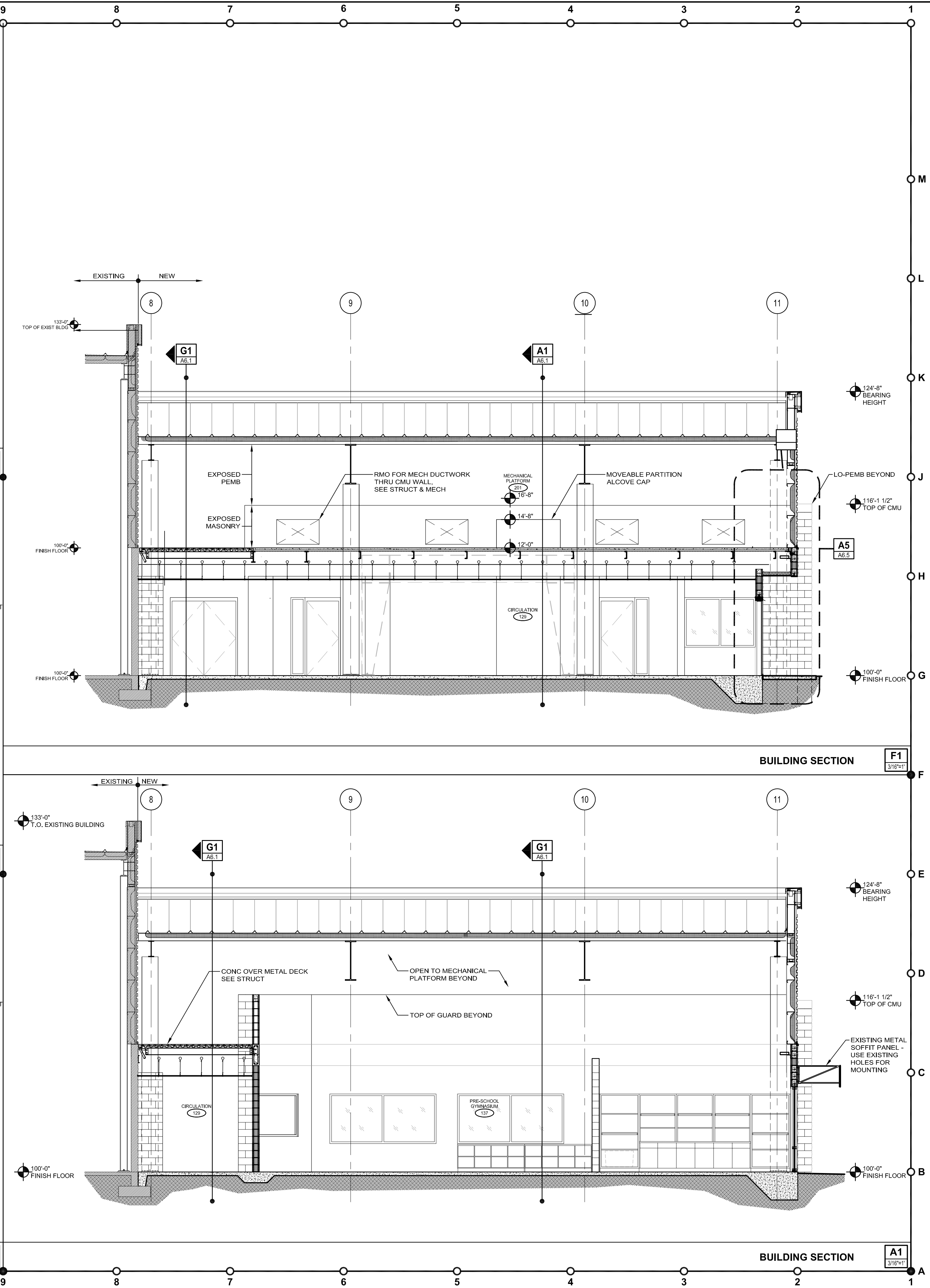
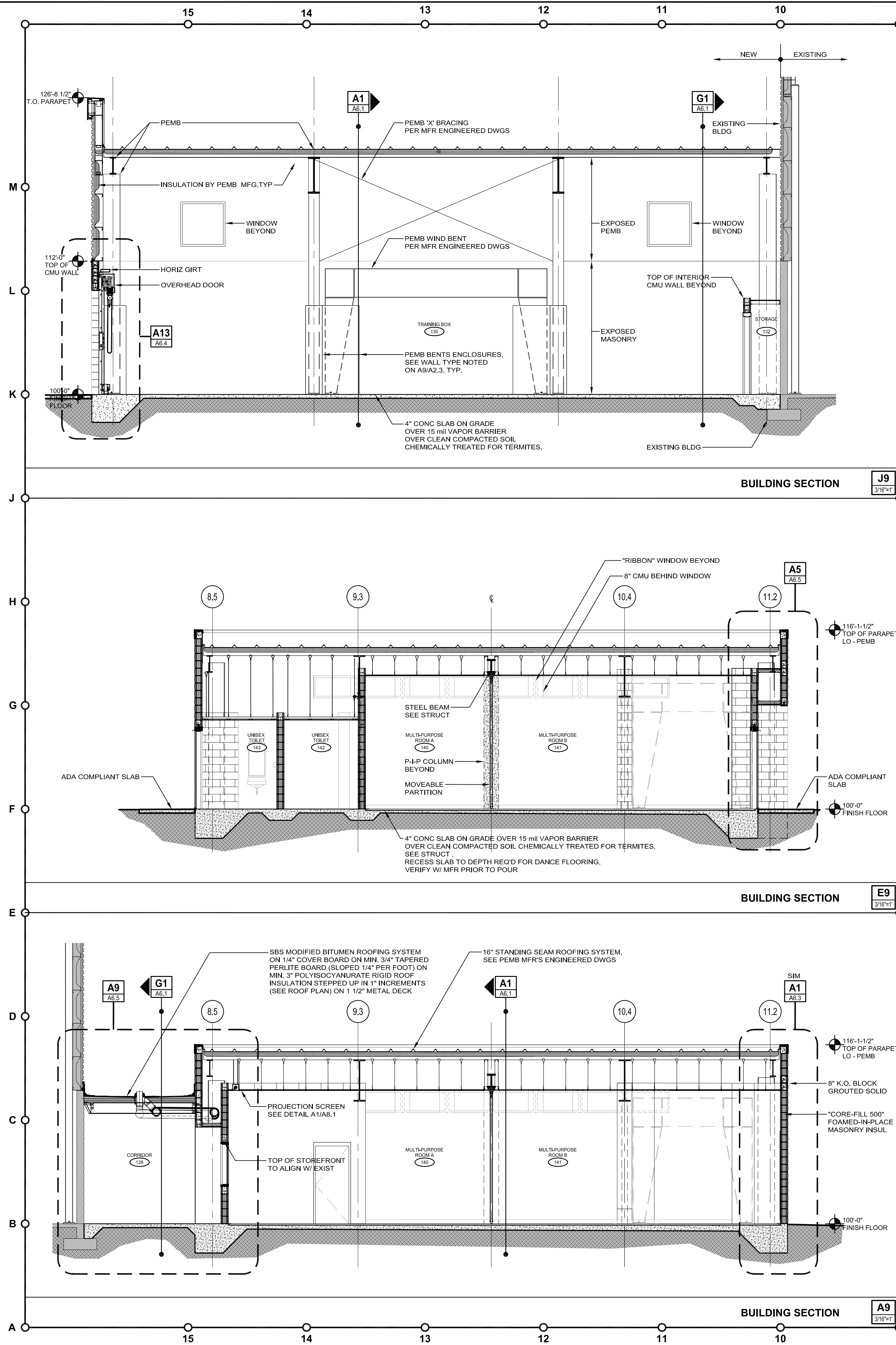
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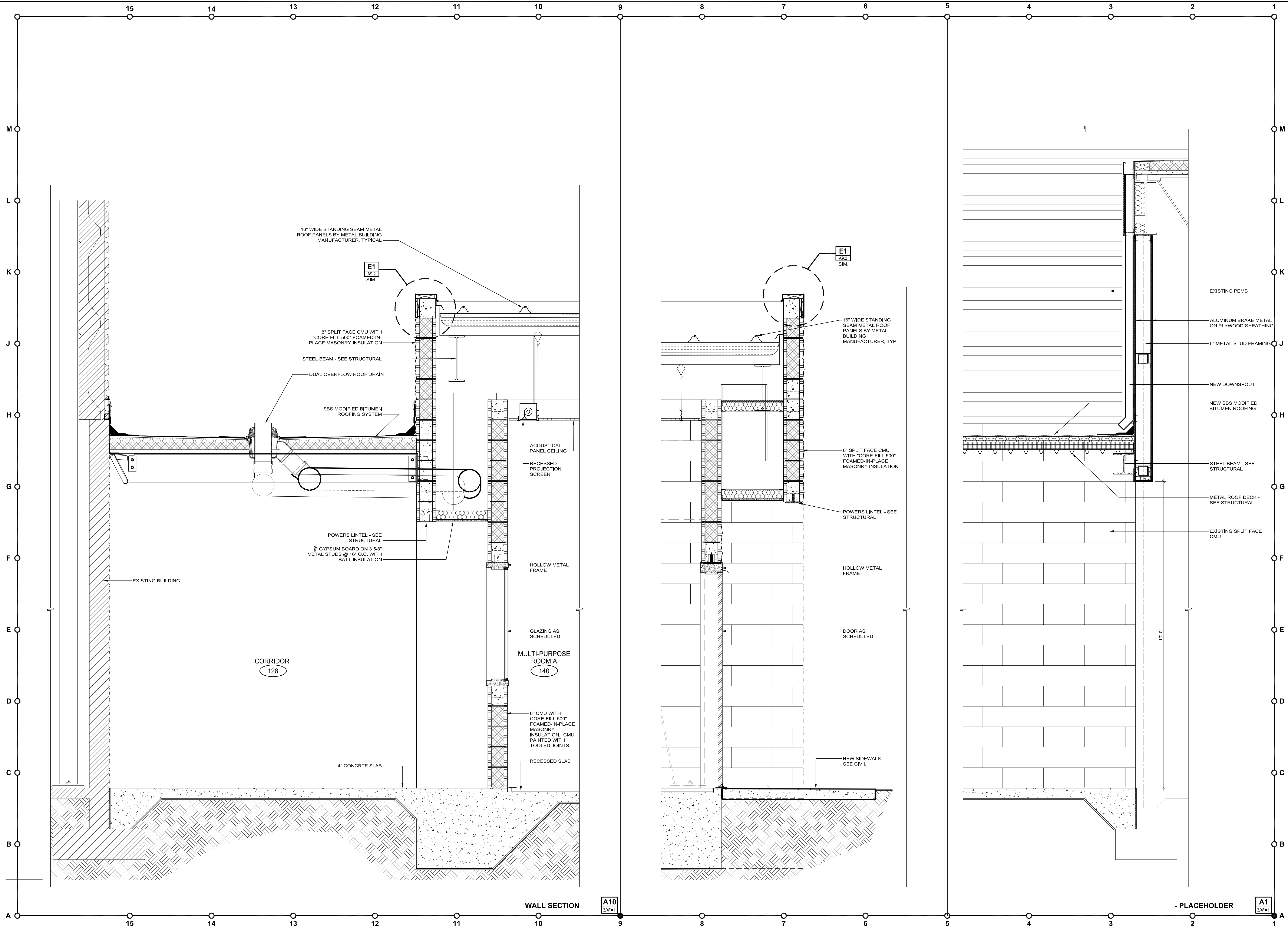
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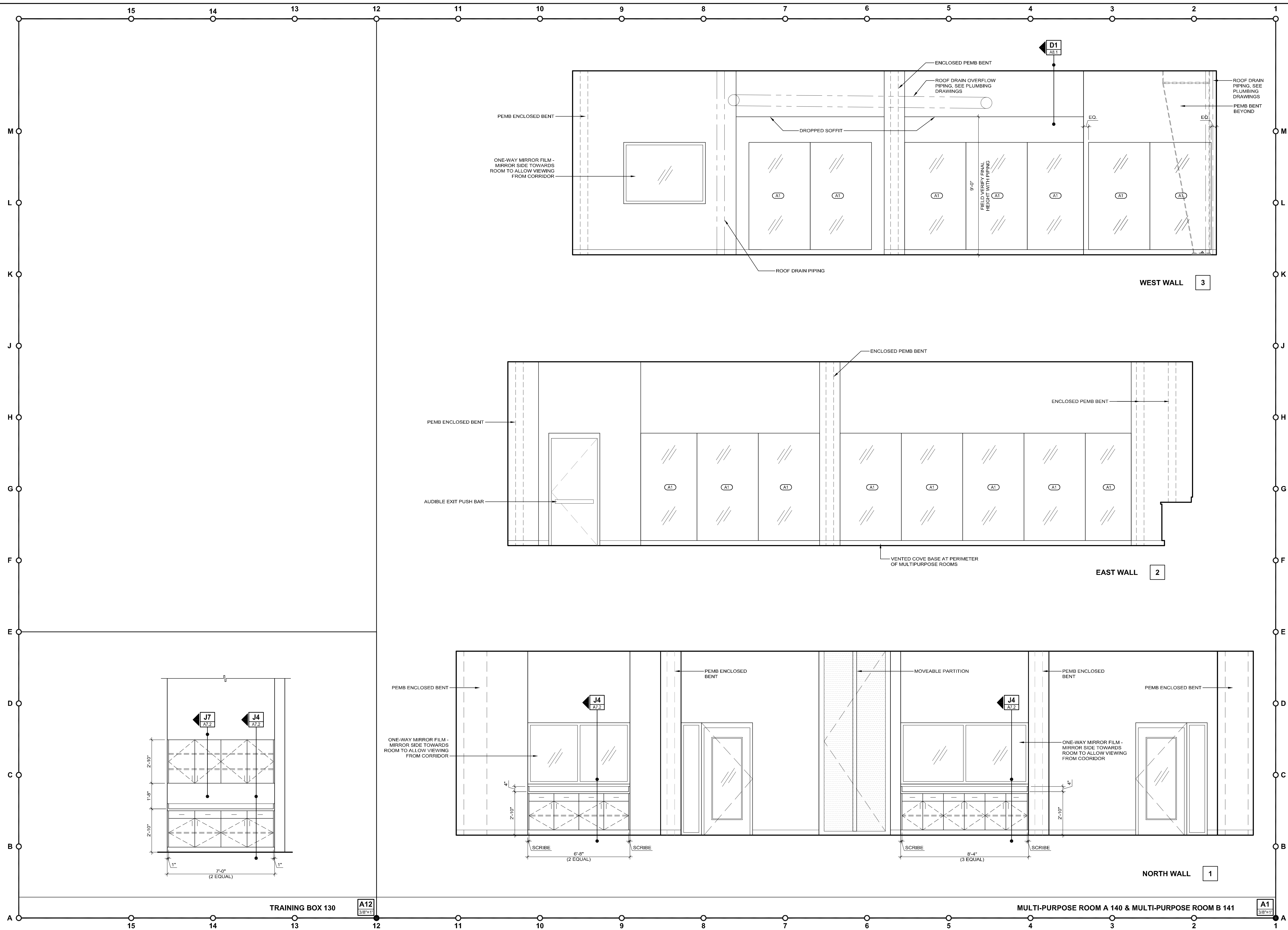
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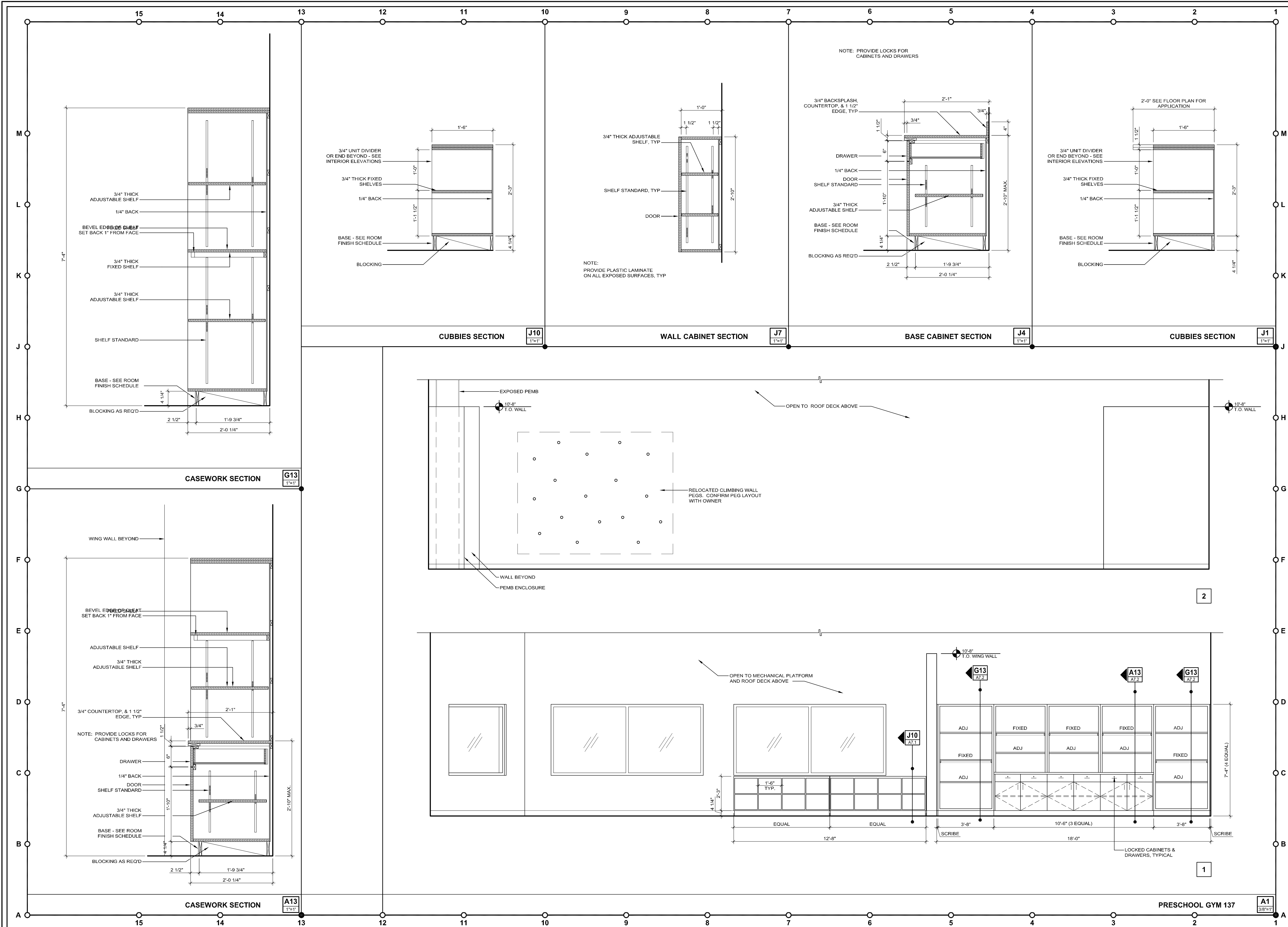
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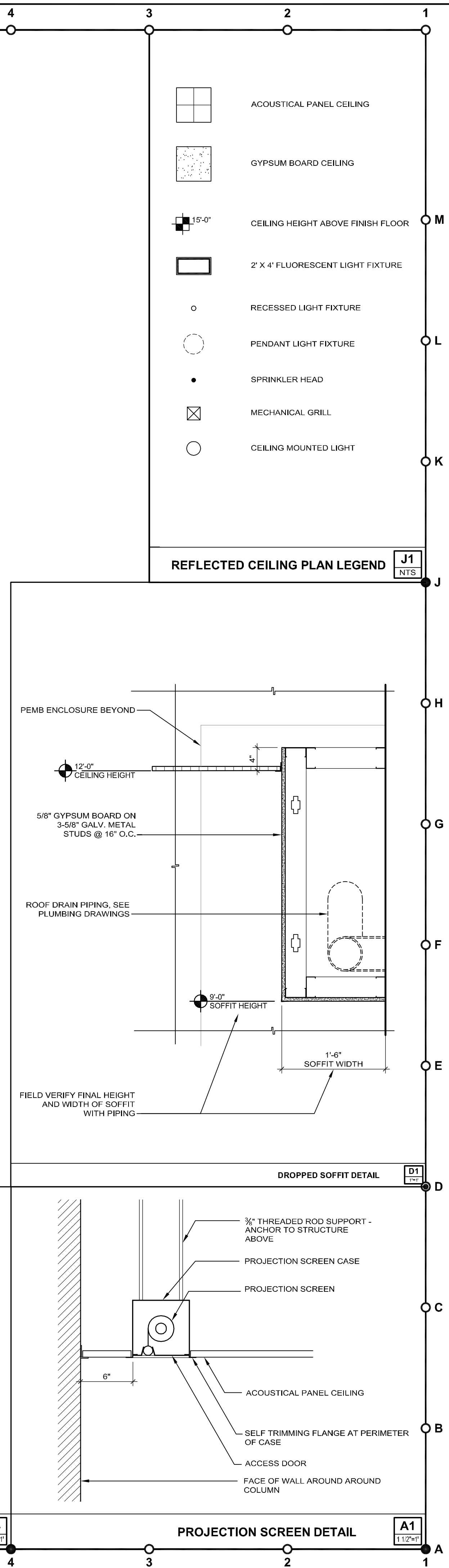
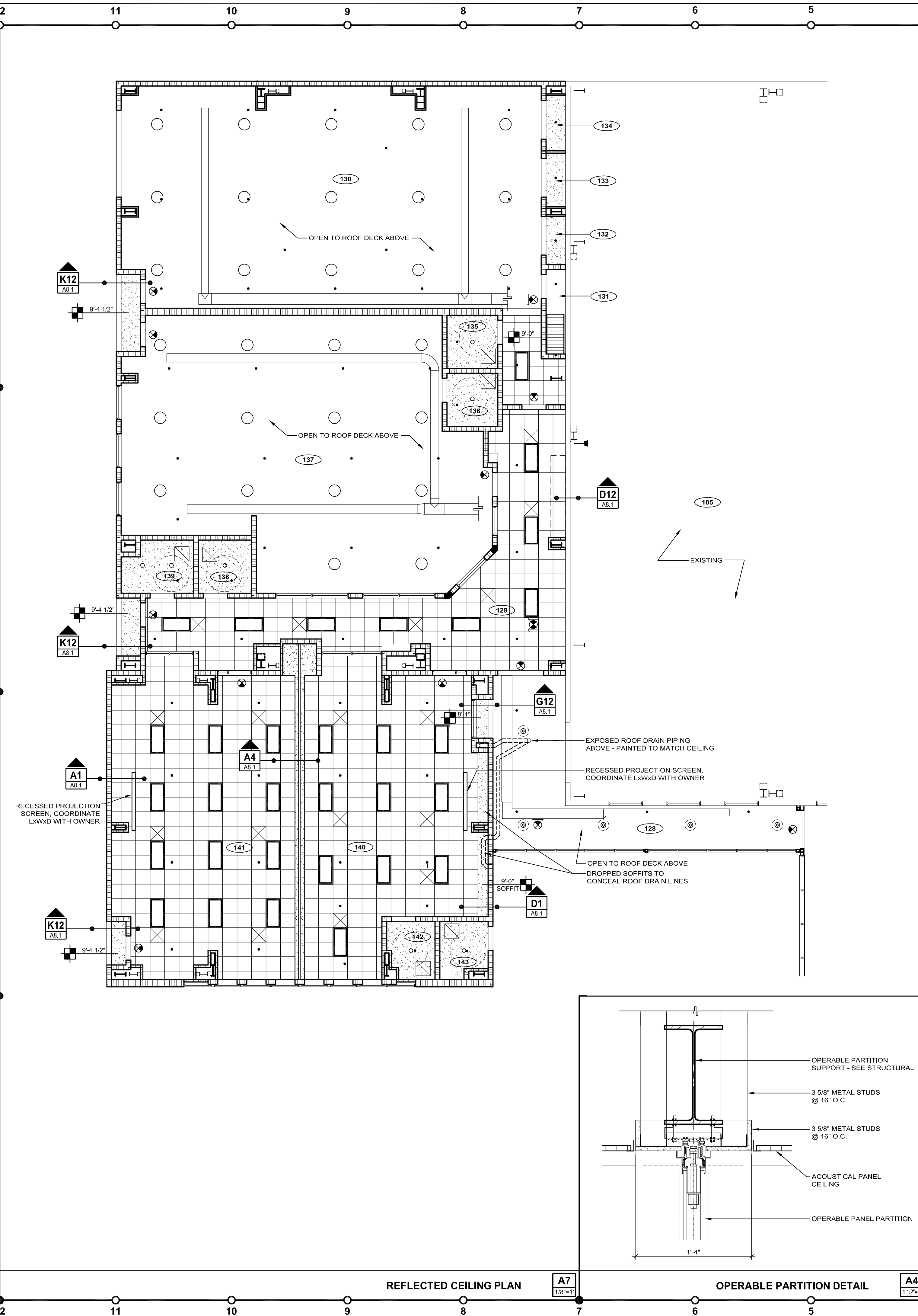
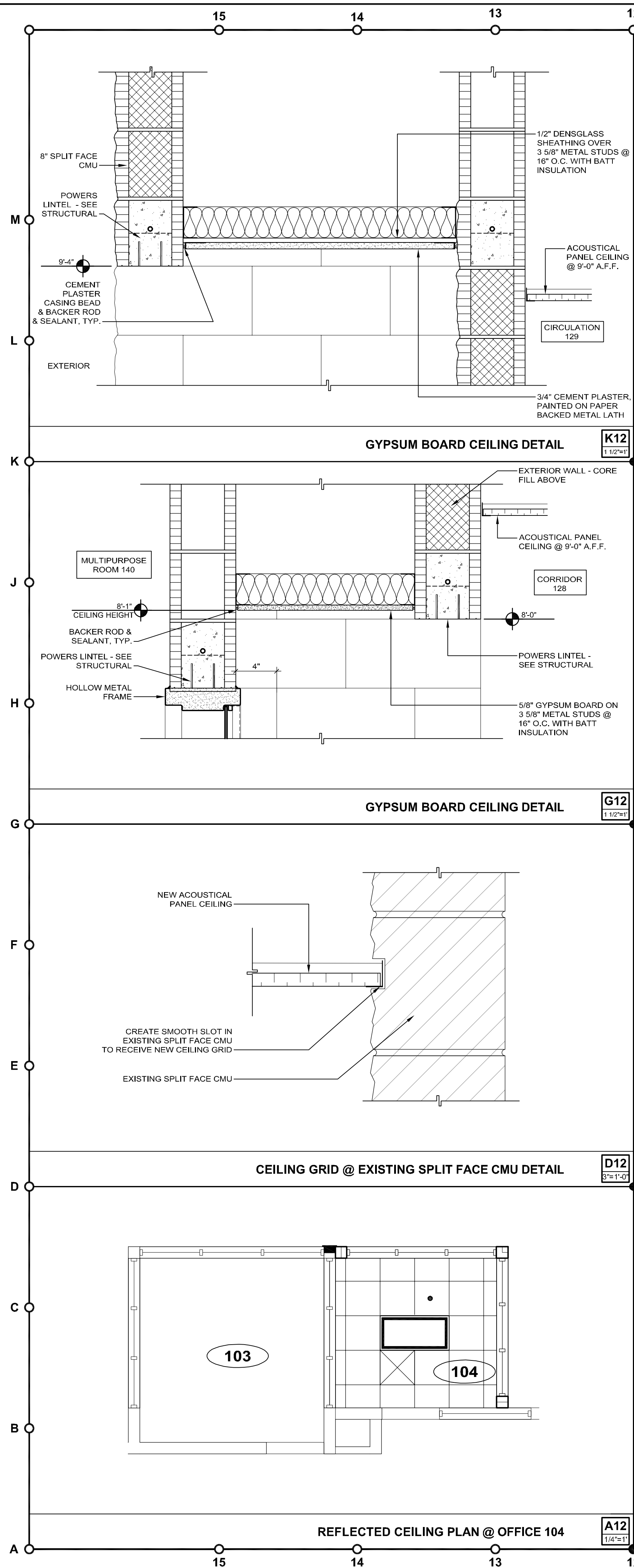
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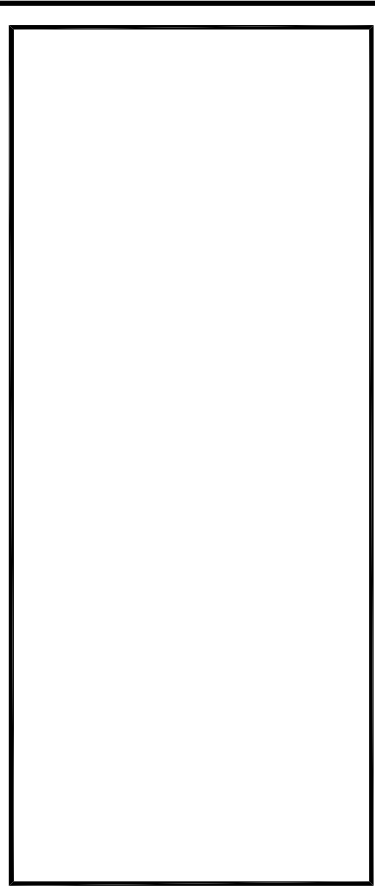
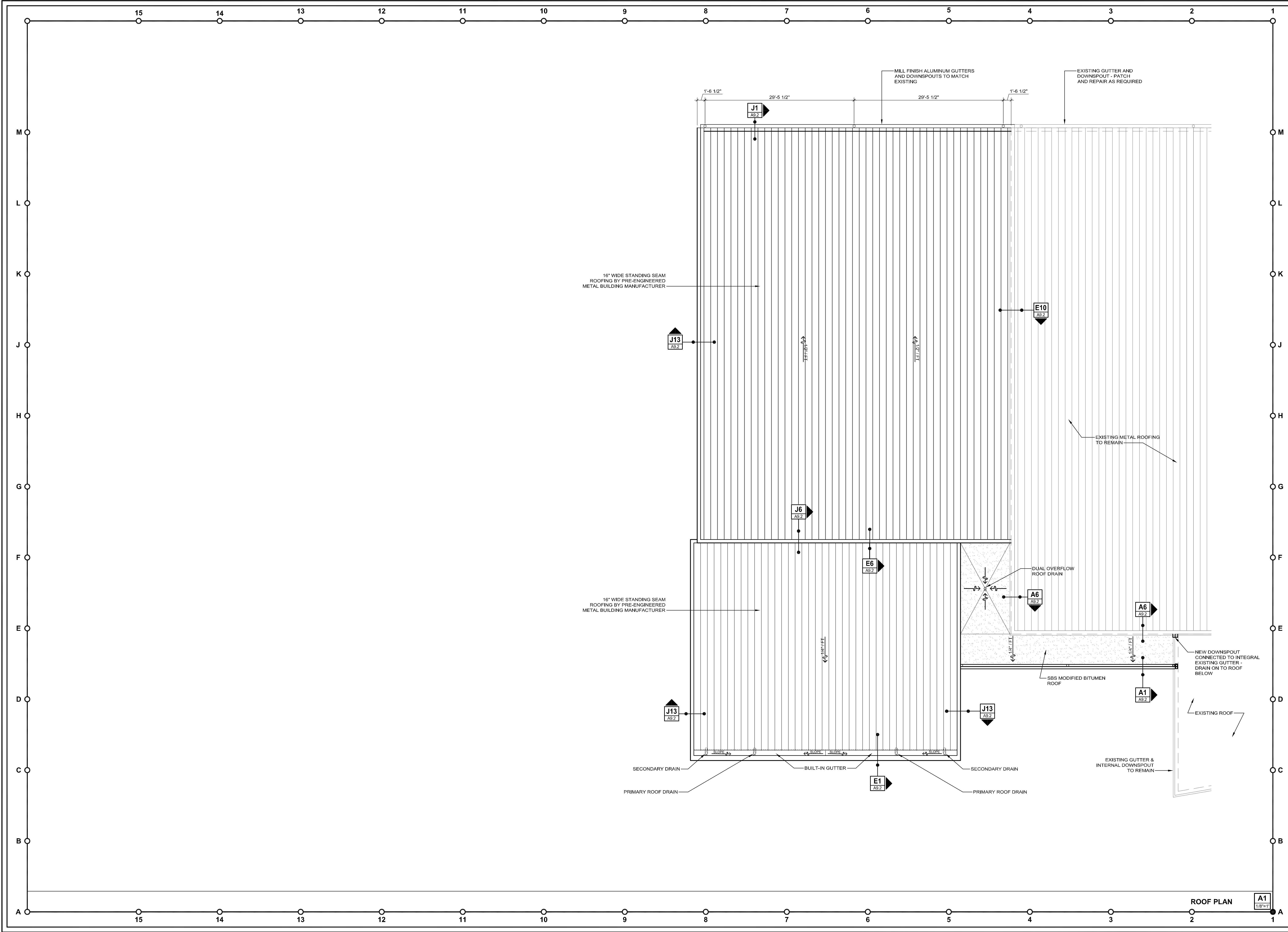
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 <div style="display: inline-block; text-align: left; margin-top: 0;"><div style="font-size: 2em; font-weight: bold; margin-bottom: 5px;">FleischmanGarcia</div><div style="font-size: 0.8em; font-weight: bold; margin: 0;">ARCHITECTURE • PLANNING • INTERIOR DESIGN</div></div>													
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<div style="font-size: 1.5em; font-weight: bold; margin-bottom: 10px;">NEW TAMPA RECREATION CENTER ADDITION</div> <div style="font-size: 1.2em; font-weight: bold; margin: 0;">TAMPA, FL 33647</div>													
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<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">FGA PROJECT NUMBER 18015</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">ISSUE DATE 11/07/18</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">REVISIONS<table style="width: 100%; border-collapse: collapse;"><tr><td style="width: 10%; text-align: center;">△</td><td style="width: 80%;">DATE: -</td><td style="width: 10%; text-align: center;">-</td></tr><tr><td style="text-align: center;">△</td><td>DATE: -</td><td style="text-align: center;">-</td></tr><tr><td style="text-align: center;">△</td><td>DATE: -</td><td style="text-align: center;">-</td></tr><tr><td style="text-align: center;">△</td><td>DATE: -</td><td style="text-align: center;">-</td></tr></table></div> <div style="border: 1px solid black; padding: 5px;">SHEET NUMBER <div style="font-size: 1.5em; font-weight: bold; margin-top: 5px;">A8.1</div></div>		△	DATE: -	-	△	DATE: -	-	△	DATE: -	-	△	DATE: -	-
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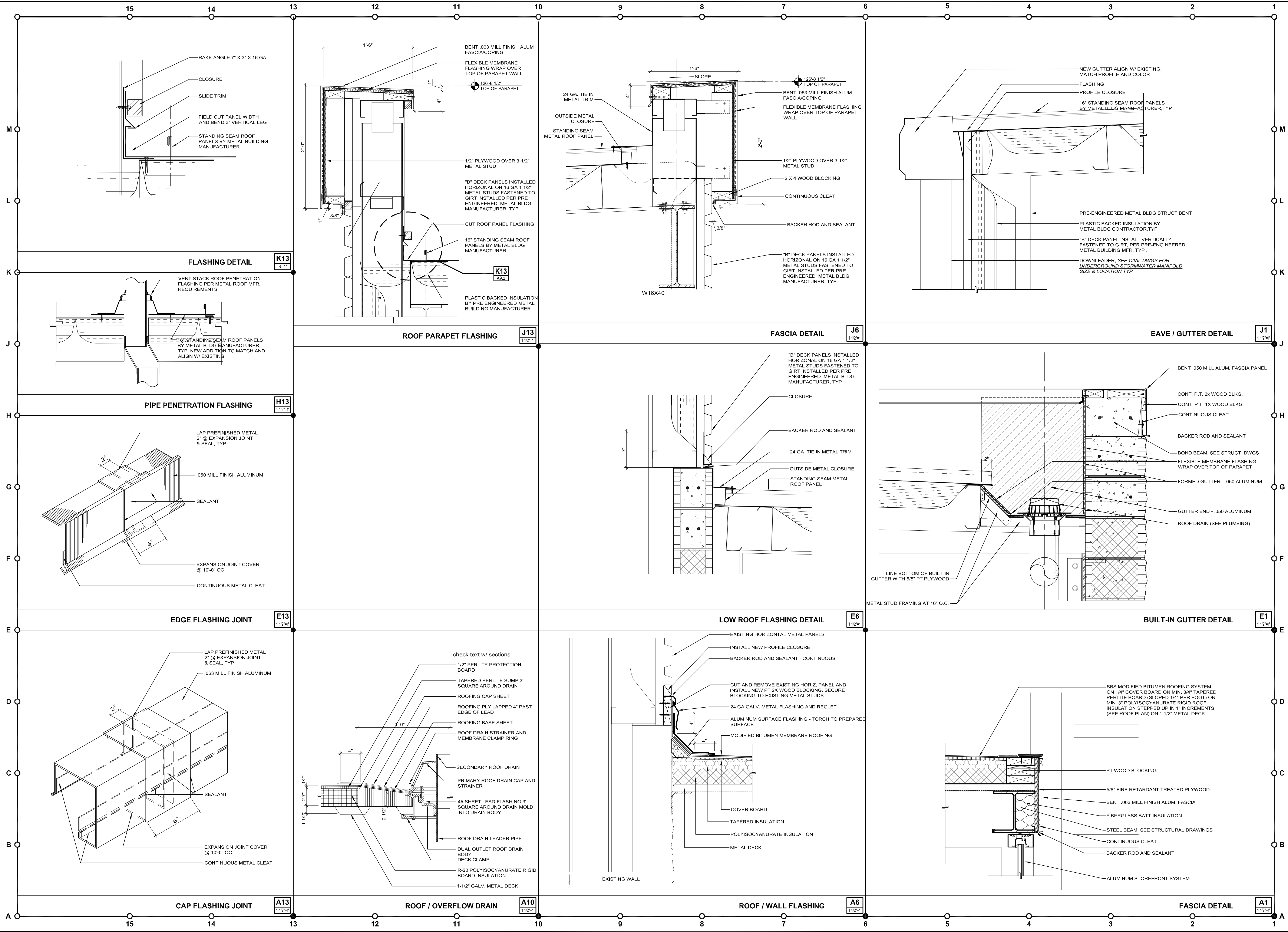
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GENERAL STRUCTURAL NOTES

GENERAL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR AND SHALL VERIFY AND COORDINATE ALL DIMENSIONS AND DETAILS BEFORE PROCEEDING WITH WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND ENGINEERS.
2. DETAILS SHOWN IN ANY SECTION APPLY TO ALL SIMILAR SECTIONS AND CONDITIONS UNLESS NOTED OTHERWISE.
3. CONTRACTOR SHALL FULLY BRACE AND OTHERWISE PROTECT ALL WORK IN PROGRESS UNTIL THE BUILDING IS COMPLETED.
4. ALL STRUCTURAL ITEMS FOR THIS PROJECT HAVE BEEN DESIGNED IN ACCORDANCE WITH APPROPRIATE PROVISIONS OF EACH OF THE FOLLOWING:
- A. THE FLORIDA BUILDING CODE, (SIXTH EDITION) 2017.
- B. ACI STANDARD 318-14 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
- C. BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-13/ASCE 5-13/TMS 402-16).
- D. ALSO "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" 360-10.
- E. ASCE 7-10 (WITH ERRATA DATED JANUARY 11, 2011) "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES".
5. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS AND THE ARCHITECTURAL AND MECHANICAL DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN DRAWINGS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ARCHITECT PRIOR TO PERFORMING WORK. IN CASE OF CONFLICT THE MOST STRINGENT CONDITION SHALL APPLY.
6. ALL DIMENSIONS MUST BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND WITH EQUIPMENT MANUFACTURER (I.E. WINDOW, DOOR, AIR HANDLER, ETC.). CONTRACTOR MUST OBTAIN AN ARCHITECTURAL DIRECTIVE IN CASE OF ANY CONFLICT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN IN STRUCTURAL DRAWINGS.
7. ROOF TOP EQUIPMENT ANCHORAGE & OUTDOOR RACK MOUNTED EQUIPMENT ANCHORAGE. ALL ROOF TOP EQUIPMENT CURBS, ROOF TOP MECHANICAL EQUIPMENT, EQUIPMENT TIE DOWNS, AND CONNECTIONS OF ALL EQUIPMENT TO OUTDOOR RACKS OR BUILDING STRUCTURE FOR WIND LOADING ARE TO BE DESIGNED AND ENGINEERED BY A REGISTERED SPECIALTY ENGINEER RETAINED BY THE MECHANICAL EQUIPMENT SUPPLIER, SIGNED AND SEALED DRAWINGS AND CALCULATIONS ARE TO BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL. THE EQUIPMENT MANUFACTURER SHALL PROVIDE THE ATTACHMENT OF THE UNIT TO THE STRUCTURE AND SUBMIT TO THE ENGINEER LOADS, LOCATIONS, AND METHODS OF ATTACHMENT. THE STRUCTURAL ENGINEER WILL MAKE PROVISIONS IN THE DESIGN OF THE PRIMARY STRUCTURAL FRAME TO ACCOMMODATE THE LOADS AND ATTACHMENTS SUBMITTED BY THE MANUFACTURER.

FOUNDATION NOTES:

1. SITE SOIL FOR THIS PROJECT HAS BEEN INVESTIGATED BY THE FIRM OF MC SQUARED, INC. AND FOUND, AS PRESENTED IN THEIR REPORT DATED NOVEMBER 15, 2012, SUITABLE TO SUPPORT 2.5 KSF SPREAD FOOTINGS. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE ABOVE STATED CRITERIA.
2. FILL AND SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER RECOMMENDATION AS CONTAINED IN THEIR REPORT STATED IN ITEM 1.
3. ALL COLUMN FOOTINGS SHALL BE CENTERED UNDER COLUMN CENTERLINES UNLESS OTHERWISE NOTED.
4. BACKFILLING AGAINST FOUNDATION WALLS SHALL BE DONE CAREFULLY WITH SMALL COMPACTION EQUIPMENT. AFTER SLABS ON GROUND ARE IN PLACE AND CONCRETE HAS SET. NO TRUCKS, BULLDOZERS, ETC. SHALL BE ALLOWED CLOSER THAN 6'-0" TO ANY FOUNDATION WALL. ANY WALL 3'-0" OR HIGHER MUST BE BRACED DURING THE CONSTRUCTION PROCESS.
5. NO FOUNDATIONS SHALL BE PLACED ABOVE 1 VERTICAL ON 2 HORIZONTAL SLOPES EXTENDED FROM THE CLOSEST EDGE OF ANY UNDISTURBED SOIL OR OTHER FOUNDATION STRUCTURE. BOTTOM OF FOOTINGS SHALL NOT BE LESS THAN 1'-0" BELOW EXISTING GRADE (U.N.O.).
6. FOR FOUNDATIONS SIZE AND REINFORCING SEE SCHEDULE.
7. ELEVATOR PIT DIMENSIONS - VERIFY WITH ELEVATOR MANUFACTURERS APPROVED SHOP DRAWINGS.
8. WATER PROOFING MATERIALS SHALL BE PROVIDED ON ALL SIDES AND BOTTOM OF ELEVATOR CORE AND ESCALATOR PIT.
9. CONTRACTOR SHALL TREAT SOIL BENEATH BUILDING FOR TERMITES.

CONCRETE AND REINFORCING:

1. ALL CONCRETE WORK SHALL CONFORM TO THE LATEST ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI-318".
2. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH AS INDICATED BELOW.
- | CONCRETE STRENGTH | MAX WATER CEMENT RATIO | TYPE AGGREGATE | LOCATION USED |
|-------------------|------------------------|----------------|-----------------|
| 4000 PSI | 0.45 | STONE | CONCRETE U.N.O. |
| 3000 PSI | 0.52 | STONE | SLAB ON GRADE |
3. ALL REINFORCING STEEL SHALL BE INTERMEDIATE GRADE, NEW BILLET STEEL, DEFORMED BARS, CONFORMING TO ASTM A-615, GRADE 60. ALL BARS SHALL BE SECURELY SUPPORTED AND WROD IN PLACE PRIOR TO POURING CONCRETE. ALL REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A-706.
4. ALL WELDED WIRE FABRIC (W.W.F.) IN FLAT SHEETS ONLY AND SHALL CONFORM TO ASTM A-185.
5. UNLESS NOTED, ALL BARS MARKED CONTINUOUS SHALL BE SPLICED AT ALL LAP POINTS AND CORNERS AND DEVELOPED AT NON-CONTINUOUS ENDS AS PER TYPICAL DETAILS. SPLICE CONTINUOUS TOP BARS AT CENTER BETWEEN SUPPORTS AND SPLICE CONTINUOUS BOTTOM BARS AT SUPPORTS.
6. CONCRETE COVER FOR REINFORCING BARS SHOWN IN TYPICAL DETAILS. UNLESS NOTED MINIMUM TEMPERATURE REINFORCING (ASTM A-615/A-60) TO BE 0.0018 X CONCRETE AREA.
7. PROVIDE #4 @ 12" O.C. WITH STANDARD HOOK, TOP BARS IN ALL SLABS AT DISCONTINUOUS ENDS UNLESS OTHERWISE NOTED ON PLANS. LENGTH OF BARS 1/4 OF SPAN, MINIMUM 3'-0", UNLESS OTHERWISE NOTED. PROVIDE #4 @ 12" O.C. IN ALL CANTILEVERS. BAR LENGTH SHALL BE CANTILEVER SPAN PLUS 10'-0" PLUS STANDARD HOOK AT CANTILEVER ENDS.
9. WHERE PIPE SLEEVES (UP TO 2" IN DIAMETER) PASS THROUGH CONCRETE BEAMS, PROVIDE ADDITIONAL STIRRUP EACH SIDE OF SLEEVE, SLEEVES FOR PIPES 2" IN DIAMETER OR LARGER MUST BE STEEL OR CAST IRON, AND THE LOCATION MUST BE APPROVED BY THE STRUCTURAL ENGINEER.
10. ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED JUST BEFORE PLACING NEW CONCRETE IN ACCORDANCE WITH THE BUILDING CODE.
11. FOR CHAMFER OF EXPOSED CORNERS OF BEAMS AND/OR COLUMNS, SEE ARCHITECTURAL DRAWINGS.
12. CONTRACTOR SHALL COORDINATE PLACEMENT OF, OR BOX OUT FOR, ALL PIPE SLEEVES, OPENINGS, ETC., REQUIRED FOR VARIOUS TRADES. CONTRACTOR SHALL COORDINATE AND NOTIFY OTHER TRADES IN SUFFICIENT TIME TO ALLOW THEM TO SET ANCHORS, INSERTS, BOLTS, HANGERS, ETC., AS REQUIRED FOR THEIR USE.
13. SEE ARCHITECTURAL DRAWINGS FOR DETAILS OF FLASHING REGLETS, FASCIA DETAILS, ETC.
15. UNDER NO CIRCUMSTANCES SHALL CONCRETE BE PUMPED THROUGH ALUMINUM PIPES. CONCRETE SHALL NOT BE PLACED IN CONTACT WITH ALUMINUM, ALUMINUM MIXING DRUMS, TRUCK MIXERS, BUCKETS, CHUTES, CONVEYORS, TREMIE PIPES, AND OTHER EQUIPMENT MADE OF ALUMINUM SHALL NOT BE USED ON THIS PROJECT.
16. SLUMPS OF OVER 4 INCHES WILL NOT BE PERMITTED UNLESS THE HWRW ADMIXTURE (SUPER PLASTICIZER) IS USED. MAXIMUM SLUMP IS THEN 8 INCHES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
17. NO ADMIXTURE SHALL BE USED IN CONCRETE EXCEPT WITH THE PERMISSION OF THE ENGINEERS AND AFTER LABORATORY DESIGN MIX APPROVAL. ALL ADMIXTURES SHALL CONTAIN NO MORE CHLORIDE IONS THAN ARE PRESENT IN MUNICIPAL DRINKING WATER.
18. WATER REDUCING ADMIXTURE SHALL CONFORM TO THE ASTM C-494, TYPE A, AND SHALL BE USED IN ALL CONCRETE.
19. AIR ENTRAINING ADMIXTURE SHALL CONFORM TO ASTM C260. AIR CONTENT OF CONCRETE SHALL BE USED AS FOLLOWS:
- A. FOR CONCRETE EXPOSED TO SOIL AND/OR WEATHER, 5%.
- B. FOR INTERIOR WALLS, COLUMNS, AND SLABS, 3%.
20. FLY ASH - ASTM C618-12A, TYPE C OR TYPE F SHOULD BE USED BUT NOT TO EXCEED 20% CEMENTITIOUS CONTENT.
21. ALL EXPOSED CONCRETE SLABS SHALL RECEIVE A CURING COMPOUND. THE CURING COMPOUND SHALL CONFORM TO ASTM C309 AND SHALL HAVE 30% SOLIDS MINIMUM. WATER/BLANKET CURING AS PER ACI RECOMMENDATION MAY BE USED AS ALTERNATE.

MASONRY:

1. DESIGN AND CONSTRUCTION SHALL CONFORM TO BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-13 ASCE 7-10) / TMS 402-116 AND SPECIFICATIONS FOR MASONRY STRUCTURES ACI 530.1-13 / ASCE 7-10 (WITH ERRATA DATED JANUARY 10, 2011).
2. MINIMUM NET COMPRESSIVE STRENGTH OF BLOCK ASSEMBLY SHALL BE 2000 P.S.I. (f_m) MORTAR FOR MASONRY SHALL BE TYPE "S" OR "M". FOR ALL EXTERIOR AND INTERIOR BEARING, BED JOINTS ARE TO COVER 100% OF THE MASONRY SURFACES AND ALL HEAD JOINTS ARE TO COVER 100% OF THE PROJECTED AREA OF THE FACE SHELLS.
4. FILL ALL CELLS AS REQUIRED WITH 3000 P.S.I. GROUT. SLUMP SHALL BE 8 TO 11 INCHES. SUBMIT DESIGN MIX FOR APPROVAL.
5. MINIMUM HORIZONTAL JOINT REINFORCING SHALL BE 9 GAGE HOT DIP GALVANIZED TRUSS OR LADDER TYPE JOINT REINFORCING AT 16" O.C. PROVIDE MANUFACTURE "T" AND "L" SHAPES FOR INTERSECTIONS AND CORNERS. (MINIMUM LAP 8").
6. MINIMUM VERTICAL REINFORCING SHALL BE 1-#5 @ 48" OR 1-#4 @ 32" O.C. (U.N.O.).
7. PROVIDE ADDITIONAL VERTICAL REINFORCING BAR AT EVERY CORNER, INTERSECTION, CONTROL JOINT, AND OPENING EDGES (U.N.O.). MINIMUM SPLICE FOR VERTICAL REINFORCING IS SHOWN IN DETAIL 4-023. SPLICE FOR HORIZONTAL JOINT REINFORCING = 12".
9. WALLS ARE DESIGNED TO BE BRACED BY FLOOR OR ROOF MEMBERS. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING DURING CONSTRUCTION.
10. ALL CELLS BELOW FIRST FLOOR FINISHED ELEVATION MUST BE FULLY GROUT FILLED.
11. ALL KNOCK OUT BLOCK HORIZONTAL BARS SHALL HAVE CORNER BARS AT ALL CORNERS AND WALL INTERSECTIONS. SIZE AND NUMBER OF CORNER BARS SHALL BE SAME AS HORIZONTAL BARS.
12. ALL INTERSECTING WALLS AND CORNER WALLS SHALL BE LAID IN AN OVERLAPPING MASONRY BONDING PATTERN, WITH ALTERNATE UNITS HAVING A BEARING OF NOT LESS THAN 3 INCHES ON UNIT BELOW.

STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL WORK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST A.I.S.C. SPECIFICATIONS.
2. STRUCTURAL STEEL SHALL CONFORM TO:
- WIDE FLANGE (WF) ASTM A992/A (50 KSI)
SHAPES (L,T,C,PL) ASTM A36/A
STRUCTURAL TUBE (HSS) ASTM A500 (46 KSI)
STEEL PIPE (HSS) ASTM A500 (42 KSI)
ANCHOR BOLTS ASTM F1554 (36 KSI) U.N.O. IN PLANS, OR SECTIONS.
ASTM A325-94 OR A490-93
ASTM A108
E70XX
- FRAMING BOLTS
SHEAR STUDS
WELDING ELECTRODES
3. ALL HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM SPECIFICATION A325 AND SHALL BE PROVIDED WITH HARDENED WASHERS UNDER THE TURNED ELEMENT (NUT OR BOLT HEAD).
4. INSTALLATION AND TIGHTENING OF ALL HIGH STRENGTH BOLTS SHALL CONFORM TO THE "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
5. SHOP CONNECTIONS MAY BE WELDED OR HIGH STRENGTH BOLTED. ALL BOLTS SHALL BE 3/4" DIAMETER MINIMUM. ALL CONNECTIONS SHALL CONFORM TO THE TYPICAL CONNECTION DETAILS SHOWN ON THE PLANS UNLESS SPECIFICALLY APPROVED BY THE ENGINEER.
6. ALL FIELD CONNECTIONS SHALL BE BOLTED WITH HIGH STRENGTH BOLTS, SLIP-CRITICAL (FRICTION) TYPE EXCEPT WHERE SLOTTED HOLES ARE SPECIFIED OR WHERE MOVEMENT OF THE CONNECTED MEMBERS IS EXPECTED. IN THESE CASES PROVIDE OVERSIZED WASHER, HAND TIGHTEN BOLTS, AND TACK WELD WASHER TO NUT TO VERIFY ASSEMBLY IS HELD TOGETHER.
7. ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY CODE, AWS D1.1, ALL WELDING SHALL BE PERFORMED USING E70XX U.N.O.
8. CUTS, HOLES, COPINGS, ETC. REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN IN THE STRUCTURAL STEEL SHOP DRAWINGS AND SHALL BE MADE IN THE SHOP. HOLES SHALL BE REINFORCED AS REQUIRED BY THE ENGINEER.
9. BURNING OF HOLES, CUTS, ETC. IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED, EXCEPT WITH THE SPECIFIC APPROVAL OF THE ENGINEER.
10. ALL STEEL MEMBERS EXPOSED TO WEATHER (SUCH AS LINTELS, DOOR JAMBS, ETC.) SHALL BE GALVANIZED.
11. FOR MISCELLANEOUS STEEL, SEE ARCHITECTURAL DRAWINGS.
12. ANY STEEL MEMBERS REQUIRED BY THE ELECTRICAL OR MECHANICAL TRADES FOR THE SUPPORT OF THEIR EQUIPMENT, WHICH ARE NOT SHOWN ON ARCHITECTURAL OR STRUCTURAL DRAWINGS, SHALL BE PROVIDED BY THE TRADE REQUIRING SUCH SUPPORT.
13. SEE SPECIFICATIONS FOR PAINTING OF STRUCTURAL STEEL. ALL FABRICATION AND ERECTION MARKS SHALL BE COVERED DURING FIELD TOUCH-UP PAINTING.
14. ALL CONNECTIONS TO BE DOUBLE ANGLE FRAMED BEAM CONNECTION PER AISC UNLESS NOTED OTHERWISE. ALL BOLTS TO BE 3/4" MINIMUM DIAMETER UNLESS NOTED OTHERWISE. SHOP CONNECTIONS MAY BE WELDED OR BOLTED. WELDS ARE TO BE EQUAL IN STRENGTH TO BOLTS.
15. DESIGN CONNECTIONS FOR ONE HALF OF THE MAXIMUM SHEAR (V IN KIPS) LISTED IN THE TABLES FOR "ALLOWABLE UNIFORM LOADS IN KIPS FOR BEAMS LATERALLY SUPPORTED" AT THE BOTTOM OF EACH PAGE IN THE "PROPERTIES AND REACTION VALUES", PART 2 OF THE LATEST EDITION OF THE AISC "MANUAL OF STEEL CONSTRUCTION". PROVIDE SIGNED AND SEALED DRAWINGS AND CALCULATIONS BY A PROFESSIONAL ENGINEER.
16. DESIGN BASE PLATE ANCHOR BOLTS FOR LATERAL MEMBERS USING FORCES INDICATED IN DRAWINGS. PROVIDE SIGNED AND SEALED DRAWINGS AND CALCULATIONS BY A PROFESSIONAL ENGINEER.
17. WHEN STEEL MEMBERS ARE WELDED TO EMBED PLATES IN CONCRETE, WELDING PROCESS SHOULD BE PERFORMED IN SUCH WAY THAT EMBED PLATE DOES NOT OVERHEAT AND EXPAND. SUCH EXPANSION WILL CRACK THE CONCRETE SURROUNDING THE EMBED PLATE AND MAY WEAKEN THE STRUCTURAL CAPACITY OF THE CONNECTION. WE RECOMMEND TO PROVIDE SEVERAL SINGLE PASSES TO BUILD UP THE WELD SIZE REQUIRED WITH COOLING OFF PERIODS TO AVOID THE EMBED PLATE EXPANSION. UNDER NO CIRCUMSTANCES PROVIDE MORE THAN 6" OF 1/4" WELD WITHOUT ALLOWING A COOLING OFF PERIOD.

STEEL ROOF DECK:

1. STEEL ROOF DECK SHALL BE A MINIMUM OF 1-1/2" - 20 GAGE WIDE RIB FOR SPANS UP TO 6'-0" OR 3" TYPE N - 20 GAGE FOR SPANS UP TO 12'-0" - THE SIZE, TYPE AND GAGE INDICATED ABOVE SHOULD BE USED UNLESS A DIFFERENT ONE IS INDICATED IN THE ROOF FRAMING NOTES OF THE ROOF PLAN DRAWING.
2. ALL STEEL ROOF DECK SHALL BE GALVANIZED G90 AS PER ASTM SPECIFICATIONS.
3. ALL STEEL ROOF DECK SHALL BE CAPABLE OF SUPPORTING ALL CONSTRUCTION LOADS.
4. ALL STEEL ROOF DECK SHALL BE CONTINUOUS OVER FOUR OR MORE STRUCTURAL SUPPORTS (I.E. DECK SHOULD BE DETAILED FOR A THREE SPAN CONDITION).
5. STEEL ROOF DECK SHALL HAVE NESTING SIDE LAPS (ATTACHED BY MECHANICAL MEANS). PROVIDE FASTENER LAYOUT AS PER DETAIL 5-505 ON DRAWING S3.3.
6. IF DECK IS CUT IN SINGLE SPAN CONDITION, EACH END OF SUCH SECTIONS SHALL BE WELDED TO ITS SUPPORT THROUGH WELDING WASHERS IN THE BOTTOM OF EACH RIB.
7. IN AREAS WHERE THE DECK IS CUT AS PER NOTE 6, THE GAGE OF THE SINGLE SPAN DECK SHALL BE ADJUSTED UPWARDS AS REQUIRED BY THE ENGINEER TO SUPPORT THE LOADS.
8. ANY ELECTRICAL WORK WEIGHING MORE THAN 5 PSF OR 50 LBS AN ELECTRICAL WORK SHALL BE HUNG FROM STEEL BEAMS ONLY FOR HANGERS, SEE SPECIFICATIONS. ALL MECHANICAL WORK AND PIPING SHALL BE HUNG FROM STEEL BEAMS. SEE STRUCTURAL STEEL NOTE 12 (OF STRUCTURAL STEEL NOTES) FOR ADDITIONAL STEEL REQUIRED BY MECHANICAL/ELECTRICAL TRADES TO SUPPORT THEIR EQUIPMENT.
9. METAL DECK CONTRACTOR TO PROVIDE 18 GAGE RIDGE PLATE, VALLEY PLATE, EDGE STRIP, ETC., AS REQUIRED.
10. STEEL ROOF DECK SHALL BE WELDED AT ENDS AND ALL INTERMEDIATE SUPPORTING MEMBERS WITH 5/8" DIAMETER PUDDLE WELDS OR ELONGATED WELDS OF EQUAL STRENGTH SPACED PER SPECIFICATIONS IN THE BOTTOM OF THE RIB ACROSS THE WIDTH OF THE DECK UNIT.
11. ALL CUT OUT IN DECK WHERE BOLT PROJECTIONS INTERFERE WITH METAL DECK.
12. DIRECTION OF METAL DECK SHOWN THUS ← → ON PLAN.

PRE-ENGINEERED BUILDING STRUCTURE:

1. PRE-ENGINEERED STRUCTURE SHALL INCLUDE METAL DECK, ROOF PURLINS, BEAMS SUPPORTING METAL ROOF AND FLOOR DECK AND STRUCTURAL STEEL COLUMNS ATTACHED TO FOUNDATIONS.
2. STRUCTURAL STEEL SHALL BE DESIGNED IN ACCORDANCE WITH APPLICABLE DESIGN STANDARDS AND CODES.
3. STRUCTURAL STEEL FRAMES SHALL BE DESIGNED TO RESIST WIND PRESSURE PARALLEL TO THE FRAMES. DESIGN SHALL BE IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS FOR THE DESIGN WIND SPEED AND BUILDING HEIGHT SPECIFIED ELSEWHERE IN THESE NOTES.
4. STRUCTURAL STEEL FRAMES SHALL BE DESIGNED TO SUPPORT THE DEAD AND LIVE LOADS ASSOCIATED WITH THE ROOF, FLOOR & CONSTRUCTION SPECIFIED ELSEWHERE IN THESE NOTES AND PLANS.
5. METAL BUILDING MANUFACTURER SHALL SUBMIT DESIGN COMPUTATIONS FOR ALL STRUCTURAL MEMBERS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PERFORM STRUCTURAL DESIGN IN THE STATE OF FLORIDA.
6. STANDING SEAM METAL ROOF DECK SHALL NOT BE CONSIDERED EFFECTIVE AS A STRUCTURAL DIAPHRAGM IN THE DISTRIBUTION OF LATERAL FORCES. ALL LATERAL FORCES SHALL BE DISTRIBUTED BY A MEANS OF DIAGONAL BRACING AS REQUIRED.
7. METAL BUILDING MANUFACTURER SHALL SUBMIT SUMMARIES OF FORCES GENERATED AT THE BASE OF ALL COLUMNS UNDER ALL GOVERNING DESIGN LOAD COMBINATIONS. THESE SUMMARIES SHALL BE SUBMITTED TO THE ENGINEER IN ORDER TO CONFIRM THE CAPACITY OF THE FOUNDATIONS PRIOR TO THE FABRICATION OF ANY PARTS OF THOSE OR FOUNDATIONS FIELD WORK ASSOCIATED.
8. METAL BUILDING MANUFACTURER SHALL SPECIFY THE NUMBER, SIZE, GRADE DEPTH OF EMBEDMENT AND LOCATION OF ANCHOR BOLTS REQUIRED AT THE BASE OF ALL COLUMNS AND SHALL SUBMIT SUCH DETAILS TO THE ENGINEER FOR COORDINATION.
9. STANDING SEAM METAL ROOF DECK SHALL BE SIZED IN ACCORDANCE WITH APPROPRIATE DESIGN STANDARDS AND CODES.
10. PROVIDE ALL EAVES PLATES, RIDGE PLATES, AND OTHER PIECES TO INSURE A WEATHER-TIGHT ASSEMBLY.
11. THE ERECTOR IS RESPONSIBLE FOR HIRING A LOCAL REGISTERED ENGINEER TO DESIGN ALL TEMPORARY GUYS AND BRACING WHERE NEEDED TO SECURE THE STRUCTURAL FRAMING AGAINST LOADS DURING ERECTION SUCH AS DESIGN WIND LOADS ACTING ON THE EXPOSED FRAMING. SUBMIT SIGNED AND SEALED CALCULATIONS AND ERECTION PLANS FOR REVIEW.
1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. SPECIAL INSPECTIONS (ARE/ ARE NOT) REQUIRED PER THE PROVISIONS SET FORTH BELOW. CONTRACTOR TO CONTACT MANUFACTURER'S REPRESENTATIVE FOR PROPER PRODUCT INSTALLATION TRAINING ON INITIAL ANCHORS.
2. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER - OF RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.
3. EXPANSION ANCHORS SHALL BE STUD TYPE WITH A SINGLE PIECE OF THREE SECTION WEDGE AND ZINC PLATED IN ACCORDANCE WITH ASTM B633. THE ANCHORS SHALL MEET FEDERAL SPECIFICATION F-3325, GROUP II, TYPE 4, CLASS I FOR CONCRETE EXPANSION ANCHORS. ANCHORS SHALL BE HILTI KWIK BOLT II AS SUPPLIED BY HILTI INC. TULSA OKLAHOMA. ANCHORS SHALL BE INSTALLED IN HOLES DRILLED WITH HILTI CARBIDE TIPPED DRILL BITS OR WATCHED TOLERANCE DIAMOND CORE BITS. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDATIONS.
4. INJECTED ADHESIVE ANCHORS SHALL BE USED FOR INSTALLATION OF THROUGH RODS. ADHESIVE SHALL BE FURNISHED IN A SIDE BY SIDE REFL FILL PACK WHICH KEEP COMPONENT A AND B SEPARATE. INJECTION ADHESIVE SHALL BE HILTI HIT HY 150 AS SUPPLIED BY HILTI INC. TULSA OKLAHOMA. ANCHOR RODS MEET ASTM F1554 (36 KSI) NUTS AND WASHERS SHALL BE FURNISHED TO MEET THE REQUIREMENTS OF AN ASTM F1554 (36 KSI) STEEL ROD.

SHOP DRAWINGS:

1. NO STRUCTURAL DRAWINGS SHALL BE REPRODUCED FOR USE AS SHOP DRAWINGS.
2. ALL DIMENSIONAL COORDINATION SHALL BE DONE BY THE CONTRACTOR AND/OR HIS DETAILER.
3. DETAILER SHALL CHECK ALL ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ALL ATTACHMENTS, CUTS, OPENINGS, OR DUCT WORK AFFECTING STRUCTURAL MEMBERS. ALL ITEMS SHALL BE SHOWN ON SHOP DRAWINGS.
4. ALL SHOP DRAWINGS SHALL BE SUBMITTED ELECTRONICALLY IN PDF FORMAT. DISTRIBUTION AS PER ARCHITECT'S INSTRUCTIONS.
5. PROVIDE SUFFICIENT SPACE ON SHOP DRAWINGS NEAR TITLE BOX (ABOUT 40 SQUARE INCHES) FOR STAMPS AND ENGINEERS COMMENTS.
6. THE SHOP DRAWINGS SHALL BEAR INITIALS OF DETAILER'S CHECKER AND CONTRACTOR PRIOR TO SUBMISSION.
7. COMPLETED ERECTION PLANS SHALL BE SUBMITTED PRIOR TO OR IN CONJUNCTION WITH DETAIL DRAWINGS. BUT IN NO CASE SHALL DETAIL DRAWINGS BE SUBMITTED PRIOR TO ERECTION PLANS.
8. DETAILER SHALL SUBMIT AN INDEX OF THE DETAIL DRAWINGS WITH EACH SHOP DRAWING SUBMITTAL.
9. SHOP DRAWINGS NOT COMPLYING WITH ALL THE ABOVE ITEMS SHALL BE RETURNED FOR CORRECTIONS WITHOUT PROCESSING.
10. RESUBMITTED SHOP DRAWINGS SHALL HAVE THE FOLLOWING CHANGES INCORPORATED: FIRST RESUBMISSION TO HAVE LETTER "A" ADDED TO DRAWING

- A. NUMBER AND ANY CHANGES MARKED ON THE DRAWING MARKED 1 AT EACH ITEM CHANGED. ALL ITEMS TO BE NOTED IN REVISION BOX.
- B. SUBSEQUENT RESUBMISSION SHALL BEAR CHANGES "B" AND 2 AND 3 ETC. AS IN 11A.
- CONTRACTOR SHALL HAVE SHOP DRAWINGS WHICH HAVE BEEN SATISFACTORILY REVIEWED BY THE ARCHITECT AND/OR ENGINEER AND CONFIRMED BY THE CONTRACTOR BEFORE PROCEEDING WITH ANY WORK.
- DETAILER SHALL USE THE SAME STRUCTURAL ELEMENT NUMBER IN HIS DETAILS AS THOSE SHOWN ON CONTRACT DRAWINGS.
- SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOULD BE SUBMITTED TO MCE WITH A MINIMUM TIME TO BE REVIEWED OF 10 WORKING DAYS. IN CASE OF A LARGE SUBMITTAL OR MORE THAN ONE SUBMITTAL FOR THE SAME PROJECT, AN ADDITIONAL WORKING DAY IS REQUIRED FOR EVERY 5 DRAWINGS/SHEETS OVER 30.
- DRAWINGS/SHEETS. THE TIME INDICATED ABOVE IS FOR MCE REVIEW ONLY. CONTRACTOR MUST INCLUDE ENOUGH TIME FOR DELIVERY, ARCHITECTURAL REVIEW, AND OWNERS REVIEW AND WORK THIS TIME IN THE PROJECT SCHEDULE AS NEEDED.
14. THERE SHALL BE NO DEVIATION FROM THESE CONSTRUCTION DOCUMENTS. IF ANY CHANGES ARE PROPOSED BY THE CONTRACTOR OR THE PROVIDER OF THE SHOP DRAWINGS, THEY SHOULD BE CLEARLY INDICATED, SIGNED AND SEALED DRAWINGS AND CALCULATIONS BY FLORIDA PROFESSIONAL ENGINEER MUST BE PROVIDED. ANY CHANGES WITHOUT PROPER DOCUMENTATION INDICATED ABOVE WILL RESULT IN SOME REVISIONS BY THE ENGINEER OF RECORD AND/OR ARCHITECT. THE COST FOR THESE REVISIONS INCLUDING ENGINEER AND ARCHITECTURAL FEES SHALL BE PAID BY THE CONTRACTOR.

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FGA PROJECT NUMBER
18015

ISSUE DATE
11/07/18

GENERAL
STRUCTURAL
NOTES

SHEET NUMBER
S1.1

TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE STRUCTURAL PLANS CONFORM TO AND SATISFY THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, 2017 (6TH EDITION), ACI 318-14, AND LOCAL CODES AS APPLICABLE

STRUCTURAL INSPECTION PLAN

PART I

1.01 SCOPE OF WORK

THIS PLAN DESCRIBES WORK REQUIRED TO COMPLY WITH THE THRESHOLD LAW, CHAPTER 553 OF THE FLORIDA STATUTES. THE OWNER SHALL RETAIN A QUALIFIED SPECIAL INSPECTOR TO PERFORM THE WORK DESCRIBED HEREIN. PROPOSALS FOR SPECIAL INSPECTION SERVICES SHALL BE SEPARATE AND INDEPENDENT FROM ALL OTHER PROPOSALS FOR MATERIALS TESTING AND OTHER QUALITY ASSURANCE SERVICES. THE SPECIAL INSPECTOR SHALL VERIFY THAT THE PRIMARY STRUCTURAL FRAME (ALL THOSE MEMBERS WHICH TRANSMIT LOADS TO THE GROUND) IS CONSTRUCTED IN SUBSTANTIAL ACCORDANCE WITH THE PERMITTED OFFICIAL CONTRACT DOCUMENTS, EXCEPT AS VARIATIONS THERE FROM ARE PERMITTED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD. THIS PLAN MAY INCLUDE ADDITIONAL REQUIREMENTS OF THE MUNICIPALITY AND THE SPECIAL INSPECTOR. THE SPECIAL INSPECTOR SHALL INCLUDE, BUT NOT BE LIMITED TO VERIFICATION OF THE FOLLOWING: CONSTRUCTION PERIOD, TO ELEMENTS SUCH AS RAILINGS, FIRE PROTECTION, ROOFING, GLAZED WINDOW SYSTEMS, ARCHITECTURAL PRECAST PANELS, MECHANICAL/ELECTRICAL SYSTEMS, ARCHITECTURAL COMPONENTS, SITE WORK AND OTHER ELEMENTS NOT CONTRIBUTING TO THE CAPACITY OF THE PRIMARY STRUCTURAL BUILDING FRAME. THE OFFICIAL CONTRACT DOCUMENTS ARE DEFINED AS THE PERMITTED PLANS, RECORDS, ADDENDA, PROJECT SPECIFICATIONS, AMENDMENTS AND THE STRUCTURAL INSPECTION PLAN.

1.02 QUALIFICATIONS OF THE SPECIAL INSPECTOR

- A. SPECIAL INSPECTOR SHALL BE A FLORIDA REGISTERED ENGINEER EXPERIENCED IN STRUCTURAL ENGINEERING AND CERTIFIED AS REQUIRED BY CURRENT LEGISLATION. THE SPECIAL INSPECTOR MAY SEND A FULL-TIME EMPLOYEE AS HIS AUTHORIZED REPRESENTATIVE TO THE PROJECT, BUT THAT PERSON SHALL BE EXPERIENCED AND KNOWLEDGEABLE IN THE STRUCTURAL SYSTEM BEING USED AND THE APPROPRIATE PORTIONS OF THE GOVERNING CODES AND STANDARDS.
- B. THE SPECIAL INSPECTOR SHALL HAVE A MINIMUM OF SEVEN (7) YEARS OF EXPERIENCE IN DESIGN AND INSPECTION OF SIMILAR STRUCTURES AND SHALL HAVE BEEN ENGINEER OF RECORD IN AT LEAST (4) SIMILAR STRUCTURES. THE SPECIAL INSPECTOR'S REPRESENTATIVE SHALL HAVE AN ENGINEERING COLLEGE DEGREE AND OBTAINED HIS "EIT" SHALL HAVE DESIGNED AT LEAST (3) SIMILAR STRUCTURE AND HAVE AT LEAST (3) YEARS OF EXPERIENCE IN INSPECTION OF SIMILAR STRUCTURES. RESUMES OF BOTH THE SPECIAL INSPECTOR AND SPECIAL INSPECTOR'S REPRESENTATIVE SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE, THE ENFORCING AGENCY HAVING JURISDICTION AND THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND ACCEPTANCE. AS USED HEREIN THE AUTHORIZED SPECIAL INSPECTOR INCLUDES THE AUTHORIZED REPRESENTATIVE, UNLESS OTHERWISE INDICATED. INsofar AS POSSIBLE, THE SPECIAL INSPECTOR SHALL NOT BE CHANGED THROUGHOUT THE DURATION OF THE PROJECT.
- C. THE SPECIAL INSPECTOR IS TO PROVIDE TO THE OWNER INSURANCE CERTIFICATES FOR ALL APPLICABLE COVERAGES, INCLUDING PROFESSIONAL LIABILITY, SPECIALIZATION IN SUCH SPECIAL INSPECTION ASSIGNMENTS, GENERAL LIABILITY, AUTOMOBILE COVERAGE, WORKMEN'S COMPENSATION AND ANY OTHER APPROPRIATE COVERAGE.

1.03 RESPONSIBILITIES AND LIMITATIONS OF THE SPECIAL INSPECTOR

- A. THE SPECIAL INSPECTOR IS RESPONSIBLE TO THE ENFORCING AGENCY HAVING JURISDICTION FOR THIS PROJECT. THE PRESENCE OF THE SPECIAL INSPECTOR DOES NOT RELIEVE THE ENFORCING AGENCY, THE ARCHITECT OR THE STRUCTURAL ENGINEER OF RECORD OF THEIR RESPONSIBILITIES.
- B. PRIOR TO STARTING WITH THE WORK, THE SPECIAL INSPECTOR AND THE AUTHORIZED REPRESENTATIVE SHALL BECOME FAMILIAR WITH THE SPECIFIC STRUCTURAL COMPONENTS AND SYSTEMS WHICH THE SPECIAL INSPECTOR WILL BE RESPONSIBLE FOR INSPECTING. HE IS RESPONSIBLE FOR A THOROUGH KNOWLEDGE OF THE INTENT AND CONTENT OF THE CONTRACT DOCUMENTS AND ACCEPTED SUBMITTALS RELATING TO HIS INSPECTION RESPONSIBILITIES. APPROPRIATE PORTIONS OF THE GOVERNING CODES, AND THE EXERCISE OF GOOD JUDGEMENT.
- C. THE SPECIAL INSPECTOR SHALL THEN PROVIDE A CERTIFIED AFFIDAVIT TO THE OWNER AND STRUCTURAL ENGINEER OF RECORD ATTESTING TO THE FOLLOWING:
 1. HE HAS REVIEWED THE CONTRACT DOCUMENTS AND UNDERSTANDS THEIR CONTENT AND THE CONCEPT WITH ITS REQUIREMENTS.
 2. HE HAS READ THE STRUCTURAL INSPECTION PLAN, UNDERSTANDS ITS INTENT AND INTENDS TO COMPLY WITH ITS REQUIREMENTS.
- D. THE SPECIAL INSPECTOR IS RESPONSIBLE FOR OBSERVING THE CONSTRUCTION OF THE PRIMARY STRUCTURAL COMPONENTS AND REPORTING TO THE CONCERNED PARTIES THAT THOSE PORTIONS OF THE STRUCTURE ARE BEING BUILT IN GENERAL CONFORMANCE WITH THE STRUCTURAL DOCUMENTS, AND IF NOT, THE LOCATION AND DESCRIPTIONS OF THOSE VARIATIONS.
- E. THE SPECIAL INSPECTOR IS NOT TO MAKE DESIGN DECISIONS OR INTERPRETATIONS OF THE CONTRACT DOCUMENTS.
- F. THE SPECIAL INSPECTOR SHALL COOPERATE WITH THE CONTRACTOR, BUT SHALL NOT DIRECT THE CONTRACTOR'S WORK NOR BE RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS.

1.04 REPORTING

- A. THE SPECIAL INSPECTOR SHALL MAINTAIN A RECORD OF THE PROGRESS, WORKING CONDITIONS, OBSERVATIONS, TESTING, ANY REQUIRED ACTION BY THE CONTRACTOR, AND DEVIATIONS FROM THE OFFICIAL CONTRACT DOCUMENTS. SUCH RECORDS ARE TO BE KEPT BY THE SPECIAL INSPECTOR FOR A MINIMUM OF SEVEN YEARS AFTER COMPLETION OF THE PROJECT.
- B. IT IS THE DUTY OF THE SPECIAL INSPECTOR TO IMMEDIATELY NOTIFY THE CONTRACTOR IN PERSON, AND THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD BY TELEPHONE, OF THE FOLLOWING:
 1. THE USE OF MATERIALS, TESTS, EQUIPMENT, WORKMANSHIP OR CONSTRUCTION NOT CONFORMING TO THE OFFICIAL CONTRACT DOCUMENTS.
 2. CONSTRUCTION PERFORMED WITHOUT INSPECTION AND NOT CAPABLE OF BEING INSPECTED OR TESTED IN PLACE. THESE EXCEPTIONS SHALL THEN BE ISSUED IN WRITING IMMEDIATELY TO THOSE LISTED ABOVE AND ATTACHED TO THE DAILY FIELD REPORTS.
- C. THE SPECIAL INSPECTOR SHALL KEEP AN EXCEPTION FILE FOR FOLLOW-UP. THIS FILE SHALL BE REVIEWED ON A DAILY BASIS AND UPDATED AS EXCEPTIONS ARE RECTIFIED. ANY UNCORRECTED EXCEPTIONS SHALL BE REPORTED AT AN APPROPRIATE TIME USING A NON-COMPLIANCE NOTICE, TO THE CONTRACTOR, ENFORCING AGENCY, OWNER'S REPRESENTATIVE AND ARCHITECT/ENGINEER.
- D. THE SPECIAL INSPECTOR SHALL WRITE AND SIGN A REPORT EACH DAY AN INSPECTION IS MADE. THE REPORT SHALL CONSIST OF THE FOLLOWING:
 1. IDENTIFY NAME AND LOCATION OF PROJECT, NAME OF SPECIAL INSPECTOR AND SPECIAL INSPECTOR REPRESENTATIVE, PERMIT NUMBER, DATE, WORKING CONDITIONS INCLUDING WEATHER AND TEMPERATURE, AND TYPE AND LOCATION OF WORK BEING PERFORMED.
 2. A DETAILED REPORT OF EACH INSPECTION, INCLUDING THE PRESENCE AND ACTIVITIES OF THE TESTING AGENCY, NOTE CHANGES IN WORKING SEQUENCE OR MATERIALS AND ANY UNUSUAL CIRCUMSTANCES AFFECTING THE PERFORMANCE OF WORK. PLACE EMPHASIS ON THOSE AREAS WHERE DEFICIENCIES RECUR.
 3. REVIEW AND COMMENT ON THE MATERIALS TESTING REPORTS PRIOR TO THAT DAY'S INSPECTION.
- E. THE REPORT WILL BE SUPPLEMENTED WITH THE FOLLOWING, WHEN APPLICABLE:
 1. SPECIAL RECORDS (WELD TESTS, WELDERS CERTIFICATES, CONCRETE TESTS, ETC.).
 2. INSPECTION REPORTS OF THE SHORING AND RE-SHORING ENGINEER.
 3. INSPECTION REPORTS OF THE GEOTECHNICAL ENGINEER.
 4. DOCUMENTATION OF CHANGES MADE IN THE FIELD.
 5. PHOTOGRAPHS.
- F. DAILY FIELD REPORTS SHALL BE SUBMITTED ON A WEEKLY BASIS TO THE ENFORCING AGENCY, OWNER'S REPRESENTATIVE, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD, UNDER A COVER LETTER SIGNED AND SEALED BY THE SPECIAL INSPECTOR.
- G. AN INSPECTION LOG SUMMARIZING ALL INSPECTIONS SHALL BE POSTED AT THE JOB SITE AND FILLED OUT EACH DAY AN INSPECTION IS MADE. IT SHALL CONTAIN, AS A MINIMUM: PROJECT NAME, LOCATION, PERMIT NUMBER, SPECIAL INSPECTOR'S NAME, OWNER, CONTRACTOR, DATE OF INSPECTION, CONSTRUCTION PHASE, WORK DESCRIPTION, COMMENTS, APPROVED OR REJECTED AND BE SIGNED BY THE SPECIAL INSPECTOR.
- H. UPON COMPLETION OF THE BUILDING AND PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, THE SPECIAL INSPECTOR SHALL SUBMIT TO THE ENFORCING AGENCY, OWNER, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD A SIGNED AND SEALED STATEMENT STATING THAT THE PART OF THE PROJECT UNDER HIS INSPECTION RESPONSIBILITIES HAS BEEN CONSTRUCTED IN SUBSTANTIAL ACCORDANCE WITH THE OFFICIAL CONTRACT DOCUMENTS. THIS STATEMENT SHALL BE IN ACCORDANCE WITH SECTION 553.79(7) OF THE FLORIDA STATUTES.
- I. SINCE THE SPECIAL INSPECTOR DOES NOT CERTIFY THAT THE OFFICIAL CONTRACT DOCUMENTS ARE IN COMPLIANCE WITH THE GOVERNING CODES, ALL STATEMENTS ISSUED WILL REFER TO COMPLETED WORK IN SUBSTANTIAL ACCORDANCE WITH THE OFFICIAL CONTRACT DOCUMENTS.

1.05 CONTRACTOR REQUIREMENTS

- A. THE CONTRACTOR SHALL COOPERATE WITH AND ASSIST THE SPECIAL INSPECTOR IN PERFORMING HIS INSPECTION DUTIES AS SPECIFIED HEREIN. THE SPECIAL INSPECTOR SHALL HAVE FREE ACCESS TO THE PROJECT AT ALL TIMES.
- B. THE CONTRACTOR SHALL ADVISE THE SPECIAL INSPECTOR, IN ADVANCE, OF CONSTRUCTION SCHEDULES AND PLANNED OPERATIONS IN ORDER TO ASSURE TIMELY AND APPROPRIATE OBSERVATION AND INSPECTION OF ITEMS SPECIFIED HEREIN. THE MINIMUM NOTICE GIVEN THE SPECIAL INSPECTOR SHALL BE 24 HOURS PRIOR TO THE TIME OF THE INSPECTION. FURTHER, THE SCHEDULED INSPECTION TIME FOR REINFORCING STEEL SHALL BE NOT LESS THAN ONE HOUR PRIOR TO THE SCHEDULED CONCRETE PLACEMENT.
- C. THE CONTRACTOR SHALL FURNISH IN A TIMELY MANNER TO THE SPECIAL INSPECTOR, COPIES OF ALL REVIEWED AND ACCEPTED SUBMITTALS (EXCLUDING CALCULATIONS) FOR THE STRUCTURAL ELEMENTS OF THE PROJECT.
- D. THE CONTRACTOR SHALL PROVIDE THE SPECIAL INSPECTOR WITH OFFICE FACILITIES AT THE CONSTRUCTION SITE TO ACCOMMODATE HIS NEEDS. AS A MINIMUM, THIS OFFICE IS TO BE EQUIPPED WITH THE FOLLOWING ITEMS: DESK, CHAIR, PLAN TABLE, PLAN RACK, FILING CABINET, TELEPHONE, UTILITIES, AIR CONDITIONING AND JANITORIAL SERVICES.
- E. SPECIAL INSPECTIONS DO NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO COMPLY WITH THE CONTRACT DOCUMENTS, ANY STATUTORY OR CONTRACTUAL OBLIGATIONS, NOR HIS RESPONSIBILITIES TO CARRY OUT HIS QUALITY CONTROL INSPECTIONS AND TESTING. THE CONTRACTOR HAS THE SOLE RESPONSIBILITY FOR ANY DEVIATIONS FROM THE OFFICIAL CONTRACT DOCUMENTS AND THE COSTS OF RECTIFYING THOSE DEVIATIONS.
- F. WORK WHICH IS IN NON-COMPLIANCE WITH THE OFFICIAL CONTRACT DOCUMENTS MAY BE CORRECTED BY THE CONTRACTOR OR THE CONTRACTOR MAY SUBMIT TO THE ARCHITECT/ENGINEER A REQUEST FOR ACCEPTANCE OF THE DEVIATION.
- G. CONSTRUCTION PERFORMED WITHOUT INSPECTION AND THAT IS UNABLE TO BE INSPECTED MAY REQUIRE TESTING OR REMOVAL AS DETERMINED BY THE STRUCTURAL ENGINEER OF RECORD.

- H. THE SPECIAL INSPECTOR CAN NOT MAKE THE REQUIRED COMPLETION STATEMENT AND THE BUILDING WILL NOT RECEIVE A CERTIFICATE OF OCCUPANCY IF WORK IS NOT IN SUBSTANTIAL ACCORDANCE WITH THE OFFICIAL CONTRACT DOCUMENTS, OR IF CONSTRUCTION IS PERFORMED WITHOUT INSPECTION AND IS UNABLE TO BE INSPECTED.

- I. INSTALLATION OF ALL SHORING AND RE-SHORING SHALL BE IN ACCORDANCE WITH THE SIGNED AND SEALED SHORING AND RE-SHORING DRAWINGS PREPARED BY THE DELEGATED SHORING ENGINEER. THE DELEGATED SHORING ENGINEER OR HIS AUTHORIZED REPRESENTATIVE SHALL INSPECT AND ENSURE THAT THE DRAWING REQUIREMENTS AND SPECIFICATIONS ARE ADHERED TO, AND PROVIDE HIS WRITTEN REPORT TO THE SPECIAL INSPECTOR PRIOR TO ALL CONCRETE POURS. THE SPECIAL INSPECTOR IS TO VERIFY THAT THE INSPECTION IS PERFORMED AND IS TO OBSERVE THAT THE WORK APPEARS TO BE IN COMPLIANCE WITH THE DRAWINGS.

1.08 REQUIREMENTS OF THE OWNER

- A. THE OWNER SHALL ARRANGE FOR ALL NECESSARY CONTRACT DOCUMENTS, INCLUDING TWO COMPLETE SETS OF ARCHITECTURAL AND STRUCTURAL DOCUMENTS FOR THE PROJECT, INCLUDING ALL DRAWINGS AND SPECIFICATIONS, THE GEOTECHNICAL REPORT AND MATERIALS TEST REPORTS, TO BE FURNISHED TO THE SPECIAL INSPECTOR DURING THE PROGRESS OF THE WORK IN A TIMELY MANNER. PROVIDE THE SPECIAL INSPECTOR WITH TWO COPIES OF ALL STRUCTURAL CHANGES, REVISIONS, ADDENDA, ETC.
- B. THE OWNER SHALL ENSURE THAT THE CONTRACTOR PROVIDES TO THE ENFORCING AGENCY, ARCHITECT, STRUCTURAL ENGINEER OF RECORD AND THE SPECIAL INSPECTOR A SHORING AND RE-SHORING PLAN WHICH IS SIGNED AND SEALED BY A DELEGATED ENGINEER REGISTERED IN THE STATE OF FLORIDA.
- C. THE OWNER SHALL ENSURE THAT A QUALIFIED TESTING AGENCY IS RETAINED. SEE CONTRACT DOCUMENTS FOR REQUIREMENTS.
- D. THE OWNER SHALL ENSURE THAT A GEOTECHNICAL CONSULTANT IS RETAINED TO CONFIRM THAT THE SPECIFIED FOUNDATION PREPARATION IS PERFORMED.

PART II

2.01 GENERAL

THE FOLLOWING IS A GENERAL INSPECTION PLAN DESCRIBING WORK TO BE PERFORMED BY THE SPECIAL INSPECTOR. THE INTENT IS TO DESCRIBE MINIMUM LEVELS NECESSARY TO CONFIRM THAT WORK COMPLIES WITH THE DESIGN DOCUMENTS. THE FOLLOWING ARE NOT INSPECTOR CHECK LISTS BUT POINT OUT SOME CRITICAL AREAS REQUIRING SPECIFIC ATTENTION BY THE SPECIAL INSPECTOR.

2.02 FOLLOWING IS A DESCRIPTION OF THE STRUCTURAL SYSTEM EMPLOYED FOR THIS PROJECT:

2.03 SPECIAL CONDITIONS/CRITICAL COMPONENTS

2.04 FOUNDATIONS

A. SHALLOW FOUNDATIONS:

1. THE GEOTECHNICAL CONSULTANT RETAINED BY THE OWNER WILL INSPECT SHALLOW FOUNDATIONS AND ALL FOOTING AREAS TO CONFIRM THAT SPECIFIED DESIGN SOIL CAPACITIES ARE MET. THE GEOTECHNICAL CONSULTANT WILL FURNISH THE SPECIAL INSPECTOR WITH DAILY REPORTS AS WELL AS A SUMMARY REPORT, SIGNED AND SEALED BY A FLORIDA P.E., STATING THAT THE FOUNDATION PREPARATION WAS COMPLETED ACCURATELY AND COMPLETELY SO AS TO ALLOW THE FOUNDATION TO FUNCTION AS INTENDED.
 2. THE TESTING AGENCY RETAINED BY THE OWNER WILL MONITOR AND TEST BACKFILL AND COMPACTION OPERATIONS. THE TESTING AGENCY WILL SUBMIT A COPY OF REPORTS ON THESE OPERATIONS TO THE SPECIAL INSPECTOR, SIGNED AND SEALED BY A FLORIDA P.E..
- #### B. FOOTINGS:
1. REVIEW CONFIGURATION AND PLACEMENT OF REINFORCEMENT FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. OBSERVE THAT CLEARANCES ARE PROPERLY MAINTAINED.
 2. REVIEW DOWEL AND LAP SPICE LENGTHS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS.
 3. OBSERVE CONCRETE PLACEMENT AS OUTLINED IN THE CAST-IN-PLACE CONCRETE SECTION OF THIS INSPECTION PLAN.

2.05 CAST-IN-PLACE CONCRETE

- A. THE CONTRACTOR IS TO NOTIFY THE SPECIAL INSPECTOR A MINIMUM OF 24 HOURS PRIOR TO THE PLACEMENT OF ANY STRUCTURAL CONCRETE.

B. REINFORCING STEEL:

1. USING THE STRUCTURAL DRAWINGS, INSPECT GRADE, SIZE, QUANTITY, CONFIGURATION AND SPACING OF REINFORCING FOR COMPLIANCE WITH THE STRUCTURAL DRAWINGS SUPPLEMENTED WITH SHOP DRAWINGS. PRIOR TO CONCRETE PLACEMENT REPORT ANY NOTED CONFLICT AND CONFIRM THAT THE CORRECTIONS ARE MADE BEFORE CONCRETE IS POURED.
 2. CHECK MINIMUM CLEARANCE REQUIREMENTS FROM CONCRETE SURFACES.
 3. CHECK THAT REINFORCING IS ADEQUATELY SUPPORTED AND TIED TO RESIST DISPLACEMENT OR SHIFTING DURING POUR.
 4. CHECK THAT REBAR SURFACES ARE FREE OF EXCESS RUST OR OTHER COATINGS THAT MAY ADVERSELY AFFECT BONDING CAPACITY. IF OILING OF FORMS IS REQUIRED, CHECK THAT IT IS APPLIED BEFORE REINFORCING IS PLACED.
 5. CHECK SPICE LOCATIONS AND REQUIRED LENGTH OF LAP. CHECK THAT THE ACCEPTED MECHANICAL COUPLERS ARE PROPERLY INSTALLED PER MANUFACTURER'S SPECIFICATIONS. REPORT ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS BEFORE CONCRETE IS CAST AND CONFIRM THAT CORRECTIONS ARE MADE.
 6. CHECK INSTALLATIONS OF HOOKED BARS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS.
- #### C. COLUMNS:
- INSPECT REINFORCING STEEL, DOVETAIL SLOTS AND OTHER EMBEDDED ITEMS. CHECK TIE SPACING, ESPECIALLY DOUBLE TIES AND TIES AT DEEP BEAM INTERSECTIONS.
- #### D. BEAMS:
- INSPECT REINFORCING STEEL. CHECK TIE SPACING, INCLUDING LOCATION OF FIRST TIE. CHECK FOR HOOKED BOTTOM BARS. CHECK THAT HOOKED BARS EXTEND TO FAR FACE OF SUPPORT.
- #### E. ONE WAY SLABS:
- INSPECT REINFORCING STEEL, INCLUDING TEMPERATURE STEEL. CHECK THAT HOOKED BARS EXTEND TO FAR FACE OF SUPPORT.

L. OPENINGS:

1. REPORT ALL SLAB OPENINGS LARGER THAN 12" AND NOT SHOWN ON THE CONTRACT DOCUMENTS TO THE ARCHITECT/ENGINEER. CHECK PLACEMENT OF ADDITIONAL REINFORCEMENT AROUND OPENINGS. NO SLEEVES OR OPENINGS WILL BE PERMITTED IN BEAMS WITHOUT PRIOR APPROVAL OF THE ARCHITECT/ENGINEER.
- M. CHECK THAT ALL FOREIGN MATERIAL HAS BEEN REMOVED FROM SPACES WHICH CONCRETE IS TO OCCUPY.
- N. THE SPECIAL INSPECTOR SHALL BE ON SITE WHEN CONCRETE IS BEING PLACED FOR THE PRIMARY STRUCTURAL FRAME AS NECESSARY TO ASCERTAIN THAT PROPER CONCRETING PRACTICES, AS REQUIRED BY ACI 301, ASTM C94 AND OTHER RECOGNIZED INDUSTRY STANDARDS ARE FOLLOWED. OBSERVATIONS BY THE SPECIAL INSPECTOR SHALL INCLUDE, BUT NOT BE LIMITED TO VERIFICATION OF THE FOLLOWING:
 1. TESTING AGENCY IS ON SITE AND THAT MIXING TIME, TEMPERATURE, SLUMP, AND AIR CONTENT ARE AS SPECIFIED. CHECK THAT ADDITION OF WATER TO THE CONCRETE MIX IN THE FIELD IS BASED ON THE GUIDELINES SET FORTH IN THE CONTRACT DOCUMENTS.
 2. THE CONCRETE AS DELIVERED TO THE PROJECT SITE IS AS SPECIFIED FOR THAT PORTION IN WHICH PLACEMENT IS TO OCCUR.
 3. CONCRETE IS BEING CONVEYED FROM MIXER TO PLACE OF FINAL DEPOSIT BY RECOGNIZED INDUSTRY STANDARDS. CONCRETE IS BEING DEPOSITED CONTINUOUSLY, OR IN LAYERS OF SUCH THICKNESS THAT NO CONCRETE WILL BE DEPOSITED ON CONCRETE WHICH AS HARDENED SUFFICIENTLY TO CAUSE THE FORMATION OF SEAMS OR PLANES OF WEAKNESS WITHIN THE AREA OF PLACEMENT.
 4. CONCRETE IS BEING CONSOLIDATED AND THOROUGHLY WORKED AROUND REINFORCEMENT, EMBEDDED ITEMS AND INTO CORNERS OF FORMS, ELIMINATING AIR OR STONE POCKETS WHICH MAY CAUSE HONEYCOMBING, PITTING OR PLANES OF WEAKNESS.
 5. CURING PROCEDURES ARE AS PER CONTRACT DOCUMENTS. ACI 308 "STANDARD PRACTICE FOR CURING CONCRETE" AND OTHER RECOGNIZED INDUSTRY STANDARDS.
 - O. AFTER THE FORMWORK HAS BEEN REMOVED, INSPECT CONCRETE SURFACES FOR HONEYCOMBING AND VOIDS.

2.06 STRUCTURAL STEEL AND PRE-ENGINEERED METAL BUILDING

- A. INSPECT STRUCTURAL STEEL PRIOR TO CONCEALMENT TO VERIFY GRADE, SIZES, CONNECTIONS, STRAIGHTNESS AND FINISH. CHECK WITH CONTRACT DOCUMENTS AND SHOP DRAWINGS.
- B. INSPECT SETTING OF ANCHOR BOLTS, EMBEDS AND OTHER MISCELLANEOUS STRUCTURAL ITEMS PRIOR TO CONCRETING. VERIFY, SIZE, QUANTITY AND FINISH.
- C. INSPECT CONNECTIONS FOR THE FOLLOWING:
 1. BOLTED CONNECTIONS: TYPE, SIZE AND NUMBER OF BOLTS. CHECK THAT BOLTS ARE CLEAN AND LUBRICATED AND HAVE PROPER WASHERS AND THAT THEY CONFORM TO THE SPECIFICATIONS. CHECK THAT BOLT HOLES ARE THE SPECIFIED TYPE AND SIZE. VERIFY THAT BOLTS ARE PROPERLY TIGHTENED. FOR SUB-CRITICAL BOLTS WITH LOAD INDICATOR WASHERS, CHECK ALL BOLTS VISUALLY AND TORX WITH A FEELER GAUGE. "TURN OF THE NUT" METHOD IS NOT ACCEPTABLE.
 2. WELDED CONNECTIONS: VERIFY THAT WELDERS ARE AWS CERTIFIED FOR THE TYPE OF WELDS BEING MADE. VISUALLY EXAMINE ALL WELDS FOR TYPE, SIZE AND LENGTH FOR COMPLIANCE WITH THE STRUCTURAL DRAWINGS. VERIFY THAT REQUIRED NON-DESTRUCTIVE TESTING IS PERFORMED BY THE TESTING AGENCY. VERIFY THAT WELDS ARE CLEAN, FREE FROM SLAG, AND THAT RUST PROTECTION HAS BEEN APPLIED AS PER SPECIFICATIONS.
 - D. HEADED STUD ANCHORS CHECK FOR SIZE, LENGTH, SPACING AND WELDING.
 - E. REVIEW ERECTION OF TRUSSES FOR COMPLIANCE WITH CONTRACT DOCUMENTS AND ERECTION DRAWINGS.
 - F. OPEN WEB STEEL JOISTS:
 1. INSPECT STEEL JOISTS TO VERIFY TYPE, SIZE, SPACING, CONNECTIONS, STRAIGHTNESS AND FINISH. INSPECT FROM CONSTRUCTION DOCUMENTS AND SHOP DRAWINGS.
 2. CHECK THAT BEARING CONDITIONS CONFORM TO REQUIREMENTS OF S.J.I. AND CONTRACT DOCUMENTS.
 3. VERIFY THAT THE TEMPORARY BRACING AND PERMANENT CROSS-BRIDGING ARE BEING IMPLEMENTED PER REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS AND ERECTION DRAWINGS.
 4. INSPECT SETTING OF SHELF ANGLES, BEARING PLATES AND MISCELLANEOUS STRUCTURAL ITEMS TO VERIFY SIZE, QUANTITY, LOCATIONS AND FINISH.
 5. VISUALLY EXAMINE ALL FIELD WELDS. VERIFY THAT WELDERS ARE AWS CERTIFIED.
 - G. STEEL DECKS CHECK FOR TYPE, SIZE AND GAGE. CHECK CONNECTION SUPPORTS. CHECK THAT WELDING WASHERS ARE USED IF DECK IS LIGHTER THAN 22 GAGE STEEL. CHECK THAT WELDING IS IN CONFORMANCE WITH CONTRACT DOCUMENTS.

2.07 MASONRY

THE SPECIAL INSPECTOR SHALL OBSERVE INSTALLATION TECHNIQUES OF LOAD BEARING MASONRY ONLY. THIS WILL INCLUDE WORKMANSHIP, UNITS USED INCLUDING SIZE, STRENGTH AND WEIGHT; MORTAR AND GROUT TYPE AND MIXING; PLACEMENT OF REINFORCING STEEL, INCLUDING HORIZONTAL REINFORCEMENT; INSERTS; ANCHORS; AND OTHER STRUCTURALLY RELATED ASPECTS. CHECK CLEANOUT AREAS. CHECK THAT CELLS TO BE REINFORCED ARE CLEAN AND FOREIGN MATERIAL DURING GROUTING. CHECK THAT ALL CELLS ARE FILLED SOLID AND, AFTER COMPLETION, IF IN DOUBT, TEST WITH A HAMMER TO VERIFY THAT CELLS ARE FILLED SOLID. CHECK TIE BEAM AND TIE COLUMN SPACING, SIZE AND REINFORCING.

PART III

3.01 MATERIALS TESTING

ALL TESTING REQUIREMENTS AS DEFINED IN THE CONTRACT DOCUMENTS SHALL BE ADHERED TO WITH COPIES OF RESULTS FORWARDED TO THE SPECIAL INSPECTOR. PRIOR TO EACH INSPECTION, THE SPECIAL INSPECTOR SHALL REVIEW ALL MATERIAL TESTS AND REPORT ON THEIR RESULTS. THE SPECIAL INSPECTOR MAY REQUEST THE OWNER'S REPRESENTATIVE TO AUTHORIZE ADDITIONAL TESTS IF REQUIRED BY UNFORESEEABLE EVENTS OR CONDITIONS. ALL MATERIALS TESTING MUST BE EXECUTED BY QUALIFIED LABORATORIES AND TESTING FIRMS.

3.02 SUBMITTALS

- A. GENERAL:

CONTRACTOR MUST SUBMIT ONE COPY OF ALL STRUCTURAL SUBMITTALS (EXCLUDING CALCULATIONS) TO THE SPECIAL INSPECTOR FOR HIS RECORD AND USE. ALL SUBMITTALS SHALL BE REVIEWED AND ACCEPTED BY THE CONTRACTOR, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD, AND SHALL CONTAIN APPROPRIATE EVIDENCE OF SUCH, PRIOR TO TRANSMITTING TO THE SPECIAL INSPECTOR.
- B. THE SPECIAL INSPECTOR SHALL REVIEW AND BECOME FAMILIAR WITH ALL SUBMITTALS.
- C. AS A MINIMUM THE FOLLOWING SHALL BE PROVIDED TO THE SPECIAL INSPECTOR:
 1. SHORING AND RE-SHORING:

SHORING AND RE-SHORING DRAWINGS AND FIELD REPORTS, SIGNED AND SEALED BY THE DELEGATED ENGINEER, SHALL BE FURNISHED TO THE SPECIAL INSPECTOR PRIOR TO PLACEMENT OF ANY CONCRETE OR STRUCTURAL ELEMENT WHICH IS DEPENDENT ON SUCH SHORING/RESHORING.
 2. REINFORCING STEEL:

FABRICATION AND PLACEMENT DRAWINGS AND BAR LISTS.
 3. CONCRETE MIX DESIGNS:

COPIES OF CONCRETE MIX DESIGNS FOR ALL PROPOSED STRENGTHS AND GRADES.
 4. PRECAST/PRESTRESSED CONCRETE:

ALL SUBMITTALS EXCEPT CALCULATIONS.
 5. LOAD BEARING MASONRY:

TEST REPORTS SHOWING ALL APPLICABLE DATA, INCLUDING UNIT GRADES, FOR MASONRY UNITS AND DESIGN MIXES FOR MORTAR AND GROUT.
 6. STRUCTURAL STEEL:

FABRICATION AND ERECTION DRAWINGS FOR ALL STRUCTURAL STEEL COMPONENTS. MILL REPORTS FOR ALL STEEL, WELDER CERTIFICATES.
 7. OPEN WEB STEEL JOISTS:

FABRICATION AND ERECTION DRAWINGS FOR ALL STEEL JOISTS.
 8. STEEL DECKS:

PIECE AND ERECTION DRAWINGS FOR ALL STEEL DECK.
 9. MISCELLANEOUS METALS:

FABRICATION AND ERECTION DRAWINGS FOR ALL STRUCTURAL METALS, SUCH AS EMBEDDED ANCHORS, CONNECTION PLATES, HANGERS, PRE-FABRICATED STEEL STAIRS, CATWALKS, ETC.
 10. LIGHTGAGE FRAMING:

LIGHTGAGE FRAMING SHOP AND ERECTION DRAWINGS.
- D. ALTERNATES:

ALTERNATES WHICH ARE ACCEPTED SHALL BE PROVIDED TO THE SPECIAL INSPECTOR AS THEY BECOME AVAILABLE.

TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE STRUCTURAL PLANS CONFORM TO AND SATISFY THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, 2017 (6TH EDITION), ACI 318-14, AND LOCAL CODES AS APPLICABLE

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NEW TAMPA RECREATION CENTER ADDITION
TAMPA, FL 33647

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CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THESE PLANS COMPLY WITH THE RELEVANT BUILDING CODES.

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18015

ISSUE DATE
11/07/18

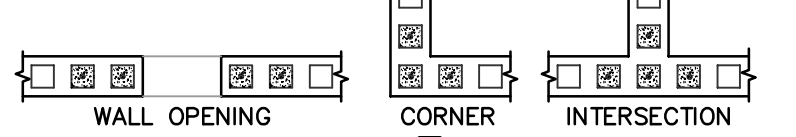
STRUCTURAL INSPECTION PLAN

SHEET NUMBER
S1.3

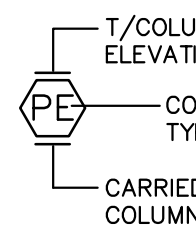
FOUNDATION PLAN NOTES:

- SLAB ON GRADE TO BE 4" THICK CONCRETE OVER VAPOR BARRIER ON COMPACTED SUB-BASE AS PER GEOTECHNICAL REPORT AND REINFORCED WITH 6X6-W2.1XW2.1 W.W.F. (PLAT SHEETS) CENTERED IN SLAB. SUPPORT WELDED WIRE FABRIC WITH 2" SLAB BOLSTER OR APPROVED EQUAL @ 3'-0" (±) O.C. BOTH WAYS. USE OF CONCRETE BRICK IS NOT ALLOWED.
- VAPOR BARRIER REQUIREMENTS/APPLICATION/INSTALLATION SHALL BE DONE AS PER ARCHITECTURAL OR MOISTURE CONSULTANT DOCUMENTS AND RECOMMENDATIONS. IF NONE ARE AVAILABLE, AT A MINIMUM THE FOLLOWING RECOMMENDATIONS SHALL BE FOLLOWED.
 - VAPOR BARRIER SHALL CONFORM TO ASTM E-1745, MEETS OR EXCEEDS CLASS "B".
 - VAPOR BARRIER INSTALLATION SHALL FOLLOW MANUFACTURER'S INSTRUCTIONS AND ASTM E 1643-98.
 - UNROLL VAPOR BARRIER WITH THE LONGEST DIMENSION PARALLEL WITH THE DIRECTION OF THE POUR.
 - LAP VAPOR BARRIER OVER FOOTINGS AND SEAL TO FOUNDATION WALLS.
 - OVERLAP JOINTS 6 INCHES AND SEAL WITH MANUFACTURER'S TAPE.
 - SEAL ALL PENETRATIONS (INCLUDING PIPES) WITH MANUFACTURER'S PIPE BOOT.
 - NO PENETRATION OF THE VAPOR BARRIER IS ALLOWED EXCEPT FOR REINFORCING STEEL AND PERMANENT UTILITIES.
 - REPAIR DAMAGED AREAS BY CUTTING PATCHES OF VAPOR BARRIER, OVERLAPPING DAMAGED AREA 6 INCHES AND TAPING ALL FOUR SIDES WITH TAPE.
- TOP OF SLAB ELEVATION SHOWN THUS ∇ ON PLAN EQUALS REFERENCE EL. FOR ACTUAL EL., SEE CIVIL DRAWINGS. FOR TYPICAL FOUNDATION PLAN DETAILS, SEE DRAWINGS S3.1 & S3.2. FOR GENERAL STRUCTURAL NOTES, SEE DRAWING S1.1.
- FOR FOOTING SIZE AND REINFORCING, SEE SCHEDULE ON THIS DRAWING.
- () DENOTES TOP OF FOOTING ELEVATION.
- TOP OF FOOTING: ELEVATION @ INTERIOR = (-0'-0") TYPICAL U.N.O.
- FOR FLOOR SLAB DEPRESSION LOCATIONS AND LIMITS NOT SHOWN ON PLAN SEE ARCHITECTURAL DRAWINGS.
- FOR PLAN DIMENSIONS NOT SHOWN, REFER TO ARCHITECTURAL DRAWINGS.
- TYPICAL WALL REINFORCING SCHEDULE:
 - 8" / 12" CMU WALL REINFORCING, SEE PLAN AND WALL REINFORCING SCHEDULE FOR SIZE AND SPACING.
 - INDICATES ADDITIONAL (1) #5 IN GROUT FILLED CELL.
 - PROVIDE ADDITIONAL SCHEDULED VERTICAL IN FIRST (2) CELLS EACH SIDE OF ALL WALL OPENINGS, CORNERS AND INTERSECTIONS.

- 8" / 12" CMU WALL REINFORCING, SEE PLAN AND WALL REINFORCING SCHEDULE FOR SIZE AND SPACING.
- INDICATES ADDITIONAL (1) #5 IN GROUT FILLED CELL.
- PROVIDE ADDITIONAL SCHEDULED VERTICAL IN FIRST (2) CELLS EACH SIDE OF ALL WALL OPENINGS, CORNERS AND INTERSECTIONS.



- COLUMN DESIGNATION SHOWN THUS ∇ ON PLAN. FOR SIZE AND REINFORCING SEE SCHEDULE THIS DRAWING.



- COORDINATE LOCATION OF (CJ) CONTROL JOINTS (SAWCUTS & TOOLED JOINTS) AT WALKWAY SLABS WITH ARCHITECTURAL DRAWINGS. CONTROL JOINTS AT EXPOSED TO WEATHER WALKWAYS SHALL BE TOOLED JOINTS SEE TYPICAL DETAIL 3-201 ON S3.1.
- ALL CMU WALLS SHALL BE REINFORCED AS SHOWN ON PLAN WITH DOWELS TO MATCH, U.N.O. ALL CELLS AT REINFORCING LOCATION SHALL BE FILLED WITH GROUT. PROVIDE INSPECTION/CLEANOUT HOLE AT BASE WHEN POUR HEIGHT IS GREATER THAN 4'-0".
- LOCATION OF MASONRY CONTROL JOINT NOT SHOWN, COORDINATE WITH ARCHITECTURAL ELEVATIONS. SEE TYPICAL DETAIL 4-002 ON S3.2.
- RAIN LEADER SHOWN THUS ∇ R.L. ON PLAN. SEE PLUMBING DRAWINGS FOR SIZE AND LOCATION.
- GENERAL CONTRACTOR TO COORDINATE LOCATION OF ALL WALL PENETRATIONS REQUIRED FOR MECHANICAL EQUIPMENT AND PROVIDE A PRECAST LINTEL AT ALL OPENINGS REFER TO TYPICAL DETAIL 4-033 ON S3.2.
- MASONRY CONTROL JOINT SHOWN THUS ∇ MCJ ON PLAN. MAXIMUM SPACING OF JOINTS = 24'-0", COORDINATE LOCATION WITH THE ARCHITECTURAL & STRUCTURAL WALL ELEVATIONS. DO NOT LOCATE A MCJ CLOSER THEN 24" TO ANY CMU OPENING U.N.O.
- PRE-ENGINEERED BUILDING MANUFACTURER COLUMN SET-BACK DIMENSION.

(2500 PSF) SOIL - WALL FOOTING/THICKENED SLAB SCHEDULE

MARK	SIZE	THICKNESS	TOP & BOTT. REINF. CONT.	TOP & BOTT. REINF. TRANSV.	REMARKS
WF2.0	2'-0" X CONT.	1'-4"	3-#5	#4 @ 24"	
TS-0.67	0'-8" X CONT.	1'-4"	1-#5	#3@24" OC	
TS-2.0	2'-0" X CONT.	1'-4"	3-#5	#3@24" OC	
TS-2.5	2'-6" X CONT.	2'-6"	6-#5	#4@12" OC	
TS-3.0	3'-0" X CONT.	2'-6"	9-#5	#4@12" OC	
TS-6.0	6'-0" X CONT.	2'-6"	19-#5	#4@12" OC	

NOTES:

- PROVIDE CORNER BARS AT ALL FOOTING INTERSECTIONS. THE CORNER BARS SHALL MATCH SIZE AND NUMBER OF TOP AND/OR BOTTOM BARS IN FOOTING.
- FOR CORNER BAR LAP SPLICE LENGTH SEE DETAIL 3-065/S3.1

(2500 PSF) COLUMN FOOTING SCHEDULE

MARK	SIZE	THICKNESS	TOP & BOTT. REINF. EACH WAY	REMARKS
F2.5	2'-6" X 2'-6"	1'-6"	5-#5	
F4.0	4'-0" X 4'-0"	1'-6"	4-#5	

CONCRETE COLUMN SCHEDULE

MARK	COLUMN SIZE	VERTICAL REINFORCING	TIE REINFORCING	REMARKS
C1	12" X 12"	4-#6	#3 @ 8" O.C.	-
C2	8" X 8"	4-#5	#3 @ 8" O.C.	-
C3	8" X 16"	8-#5	#4 @ 8" O.C.	-

STEEL COLUMN SCHEDULE

MARK	COLUMN SIZE	BASE PLATE SIZE	ANCHOR BOLTS	REMARKS
S1	HSS-4X4X1/4	10" X 10" X 1/2"	(4) 1/2" F1554 GRADE 36 BOLTS (12" EMBED)	-

NOTE:

- SEE TYPICAL DETAIL 5-100 ON DRAWING S2.1 DOOR ANCHOR BOLT SCHEDULE.



1 FOUNDATION PLAN - NEW BUILDING ADDITION

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



2 FOUNDATION PLAN - MECH EQUIP YARD ENCLOSURE

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

NEW TAMPA RECREATION CENTER ADDITION TAMPA, FL 33647

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FOUNDATION PLAN

SHEET NUMBER
S2.1

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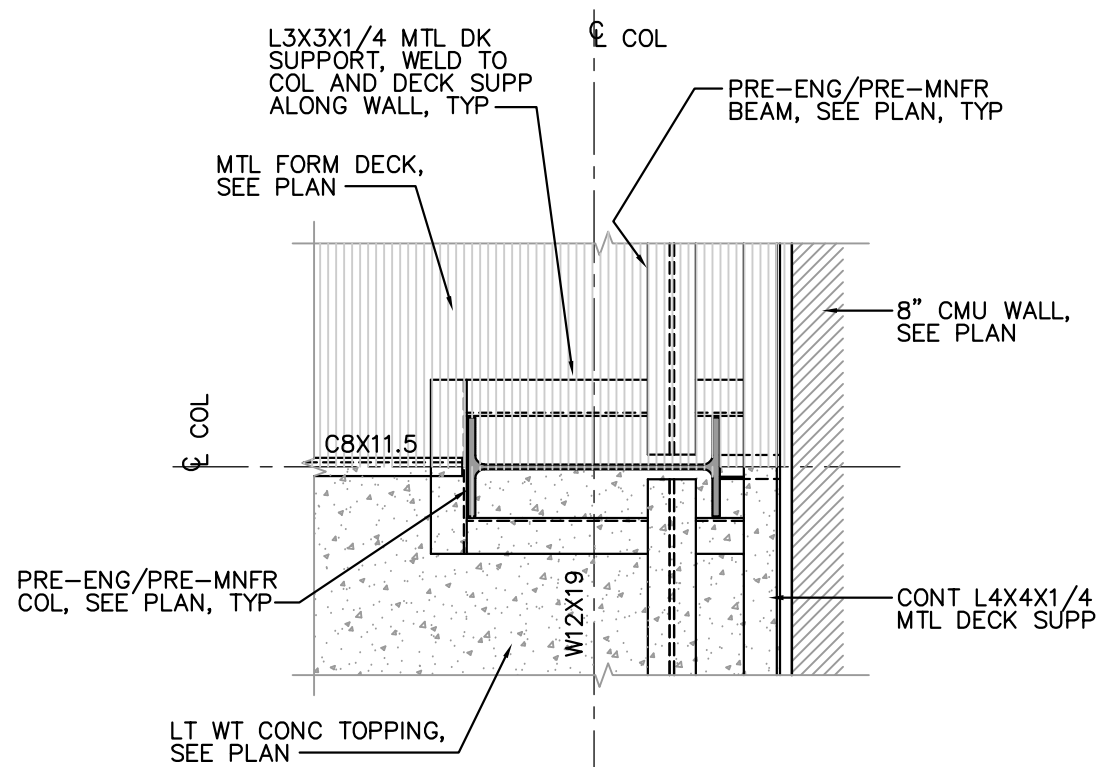
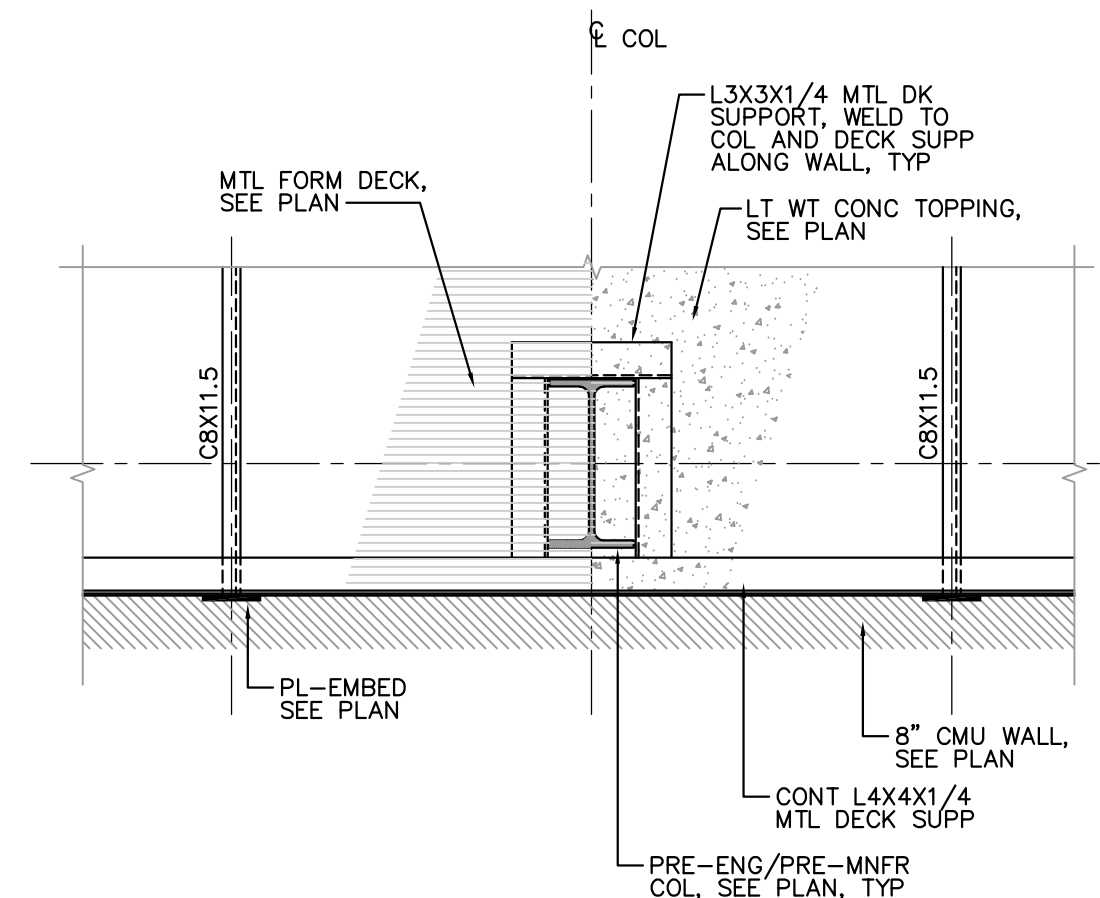
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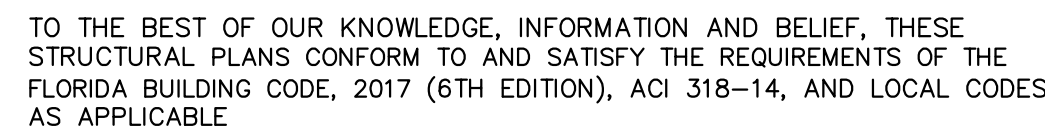
MECHANICAL PLATFORM FRAMING NOTES:

1. TYPICAL PLATFORM FRAMING SHALL BE 1 1/2"- 20 GAGE NON-COMPOSITE GALVANIZED METAL DECK WITH 2 1/2" NORMAL WEIGHT CONCRETE TOPPING (TOTAL SLAB THICKNESS = 4") SPANNING OVER STRUCTURAL STEEL CHANNELS SPACED @ 5'-0" O.C. MAX., REINFORCE SLAB WITH 6X6XW2.1XW2.1 WMF (FLAT SHEETS) PLACED 1" BELOW FLOOR FINISH.
2. DIRECTION OF METAL DECK SPAN SHOWN THUS ON PLAN.
3. TOP OF SLAB ELEVATION SHOWN THUS ON PLAN.
4. FOR GENERAL STRUCTURAL NOTES, SEE DRAWING S1.1.
5. FOR TYPICAL DETAILS, SEE DRAWING S3.1 AND S3.2.
6. PRE-ENGINEERED COLUMN DESIGNATIONS SHOWN THUS (PE) ON PLAN.
7. FOR LOAD SCHEDULE AND WIND DESIGN DATA, SEE DRAWING S1.2.
8. EMBED (WELD) PLATE SHOWN THUS EP-1 ON PLAN. FOR PLATE REQUIREMENTS SEE TYPICAL DETAIL 5-005 ON DRAWING S3.3.
9. CONTINUOUS METAL DECK SUPPORT L4X4X1/4 BOLT TO WALL WITH 3/8" HILTI EXPANSION BOLTS SPACED AT 24" OC AND 3" FROM ENDS.
10. CONTINUOUS METAL DECK CLOSURE L4X3X1/4 (LLV) WELD TO EACH W8 BEAM AND C8 FLOOR JOIST.
11. POWERS LINTEL SHOWN THUS "PS-X" ON PLAN. FOR INFORMATION, SEE TYPICAL DETAIL 4-033 ON DRAWING S3.2.
12. PC UNTEL L5X3X1/4 WITH HOLES FOR (2) 3/8" HILTI KWIK BOLT TZ.
13. LIGHT GAUGE METAL STUD AND TRACK FRAMING WITH PLYWOOD SHEATHING.

CONCRETE BEAM SCHEDULE

MARK	BEAM WIDTH	BEAM DEPTH	CONTINUOUS REINFORCING	STIRRUPS REINFORCING	REMARKS
CB-1	7 5/8"	24"	2-#5 T&B, 2-#5 MID	#308" OC	
CB-2	7 5/8"	16"	2-#5 T&B	#308" OC	

**A**
S2.2 DECK SUPPORT AT P.E. COLUMN
SCALE: 1/8"-1'-0"**B**
S2.2 DECK SUPPORT AT P.E. COLUMN
SCALE: 1/8"-1'-0"**1**
S2.2 MECHANICAL PLATFORM FRAMING PLAN - NEW BUILDING ADDITION
SCALE: 1/8"-1'-0"**2**
S2.2 ROOF FRAMING PLAN - MECH EQUIP YARD ENCLOSURE
SCALE: 1/8"-1'-0"MASTER CONSULTING, INC.
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18015ISSUE DATE
11/07/18MECHANICAL
PLATFORM
FRAMING
PLANSHEET NUMBER
S2.2TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE
STRUCTURAL PLANS CONFORM TO AND SATISFY THE REQUIREMENTS OF THE
FLORIDA BUILDING CODE, 2017 (6TH EDITION), ACI 318-14, AND LOCAL CODES
AS APPLICABLE



I CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THESE DRAWINGS COMPLY W/ ALL RELEVANT BUILDING CODES.

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**NEW TAMPA
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TAMPA, FL 33647



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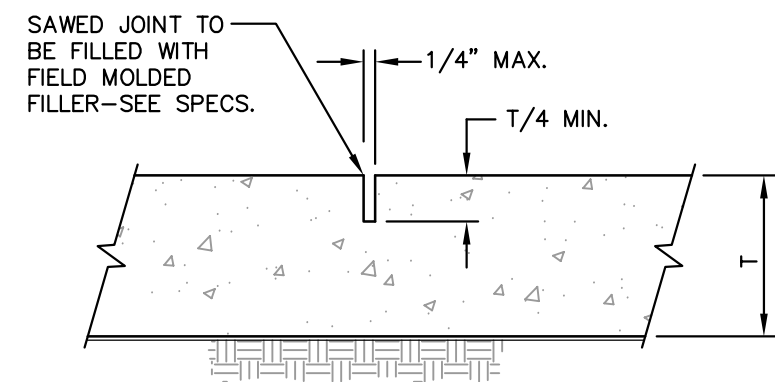
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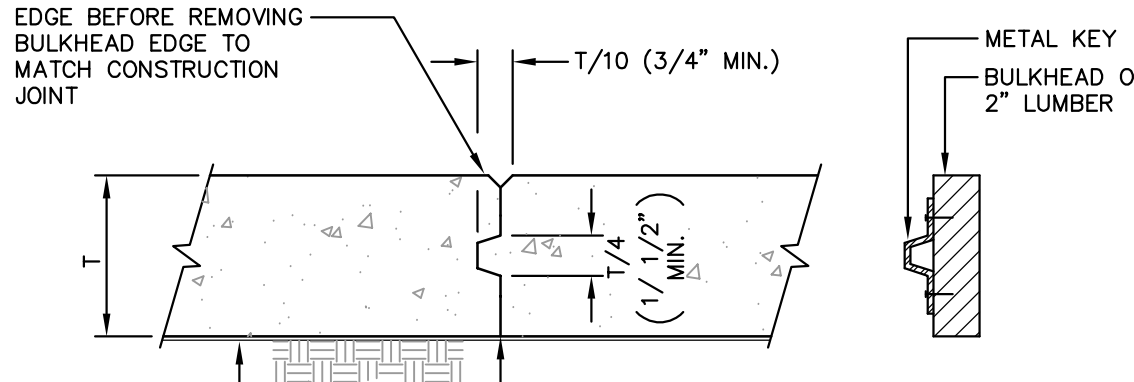
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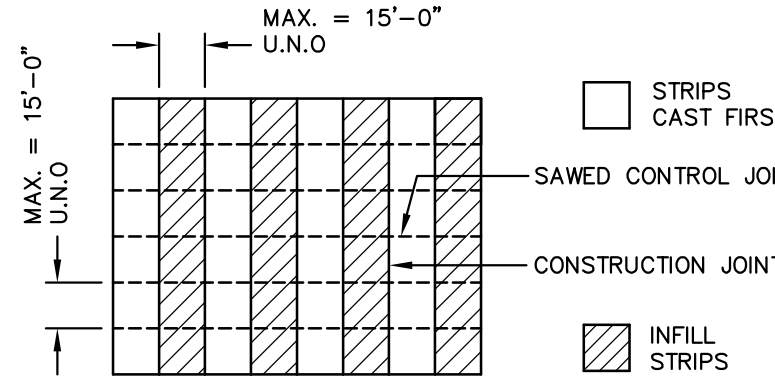
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SAWED CONTROL JOINT DETAIL



BULKHEAD DETAILS FOR CONSTRUCTION JOINT



SLAB PLACEMENT SEQUENCE

TYPICAL SLAB ON GRADE JOINT DETAILS

SCALE: N.T.S.

3-201

f'c = 4000 PSI, NORMAL WEIGHT

TENSION LAP SPLICES						COMPRESSION LAP SPLICES
BAR SIZE	LAP CLASS	LAP LENGTH PER SPACING AND COVER CASE				
		CASE 1		CASE 2		
		TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	
#3	A	19	15	28	22	12
	B	24	19	36	28	
#4	A	25	19	37	29	15
	B	32	25	48	37	
#5	A	31	24	47	36	19
	B	40	31	60	47	
#6	A	37	29	56	43	23
	B	48	37	72	56	
#7	A	54	42	81	63	26
	B	70	54	106	81	
#8	A	62	48	93	71	30
	B	80	62	121	93	
#9	A	70	54	105	81	34
	B	91	70	136	105	
#10	A	79	61	118	91	38
	B	102	79	153	118	
#11	A	87	67	131	101	42
	B	113	87	170	131	

NOTES:

CASE 1

BEAMS AND COLUMNS:
CONCRETE COVER \geq TO BAR DIAMETER, C-C BAR SPACING \geq TO 2X BAR DIAMETER AND WITH STIRRUPS OR TIES THROUGHOUT TENSION LAP SPlice LENGTH NOT LESS THAN THE CODE MINIMUM.

OTHER MEMBERS:
CONCRETE COVER \geq TO THE BAR DIAMETER AND C-C BAR SPACING \geq TO 3X BAR DIAMETER.

CASE 2

BEAMS AND COLUMNS:
CONCRETE COVER $<$ BAR DIAMETER AND C-C BAR SPACING $<$ 2X BAR DIAMETER.

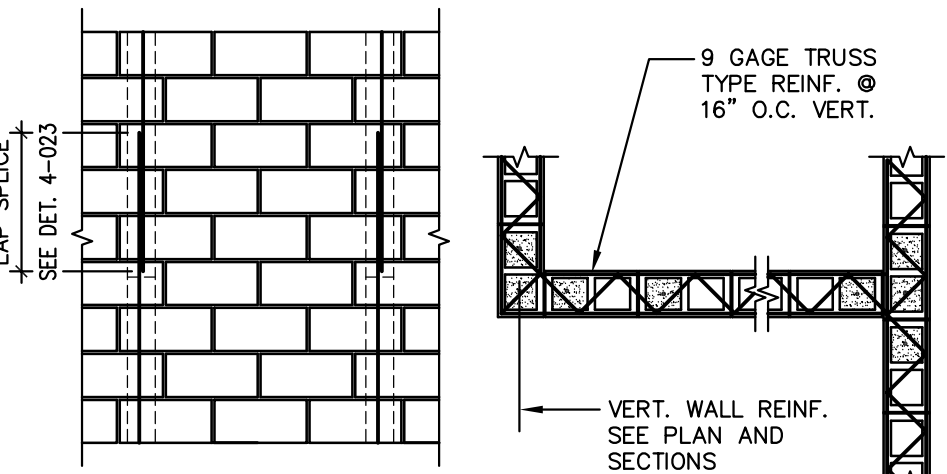
OTHER MEMBERS:
CONCRETE COVER $<$ BAR DIAMETER OR C-C BAR SPACING $<$ 3X BAR DIAMETER.

* LAP CLASS "B" IS TO BE USED UNLESS OTHERWISE SPECIFIED IN THESE CONTRACT DOCUMENTS.

TENSION AND COMPRESSION LAP SPLICES WITH $F_c = 4000$ PSI

SCALE: N.T.S.

3-066



ELEVATION

PLAN

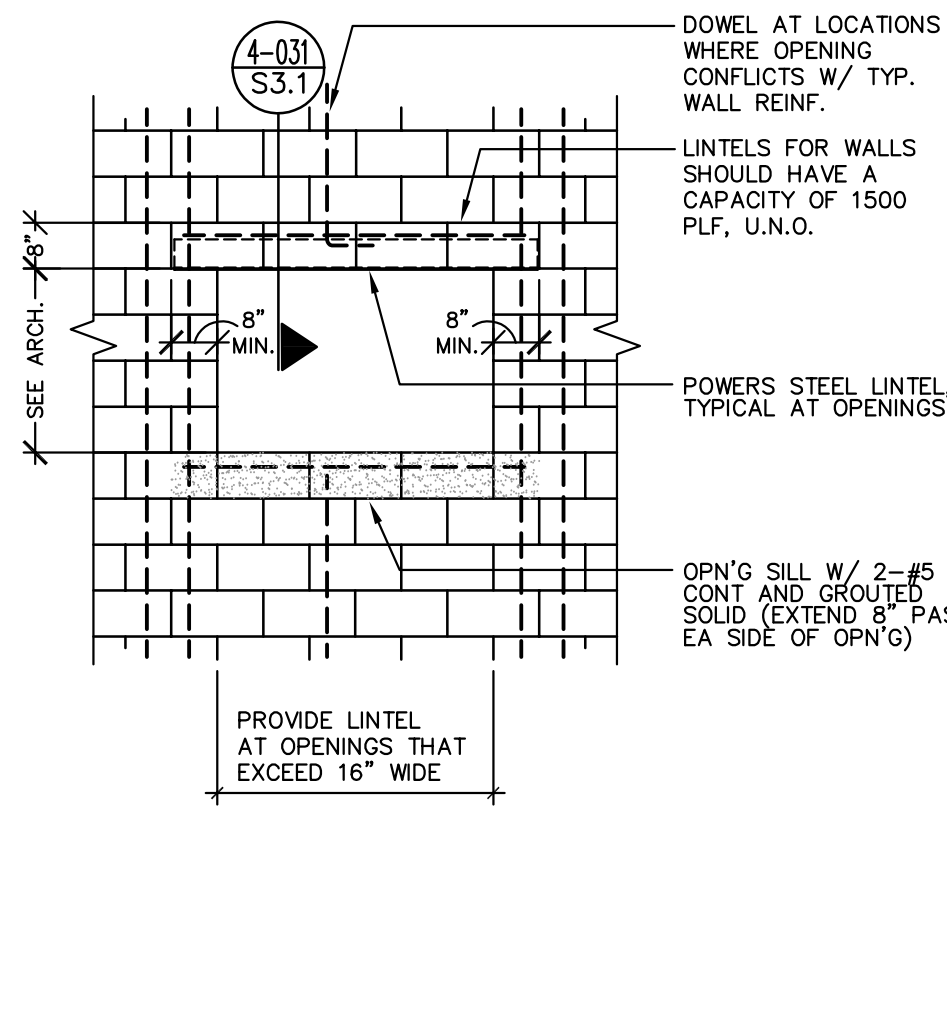
NOTE:

PROVIDE INSPECTION PORT AT BOTTOM OF LIFT. IF GROUT LIFT IS GREATER THAN 4'-0".

TYPICAL MASONRY WALL DETAIL

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

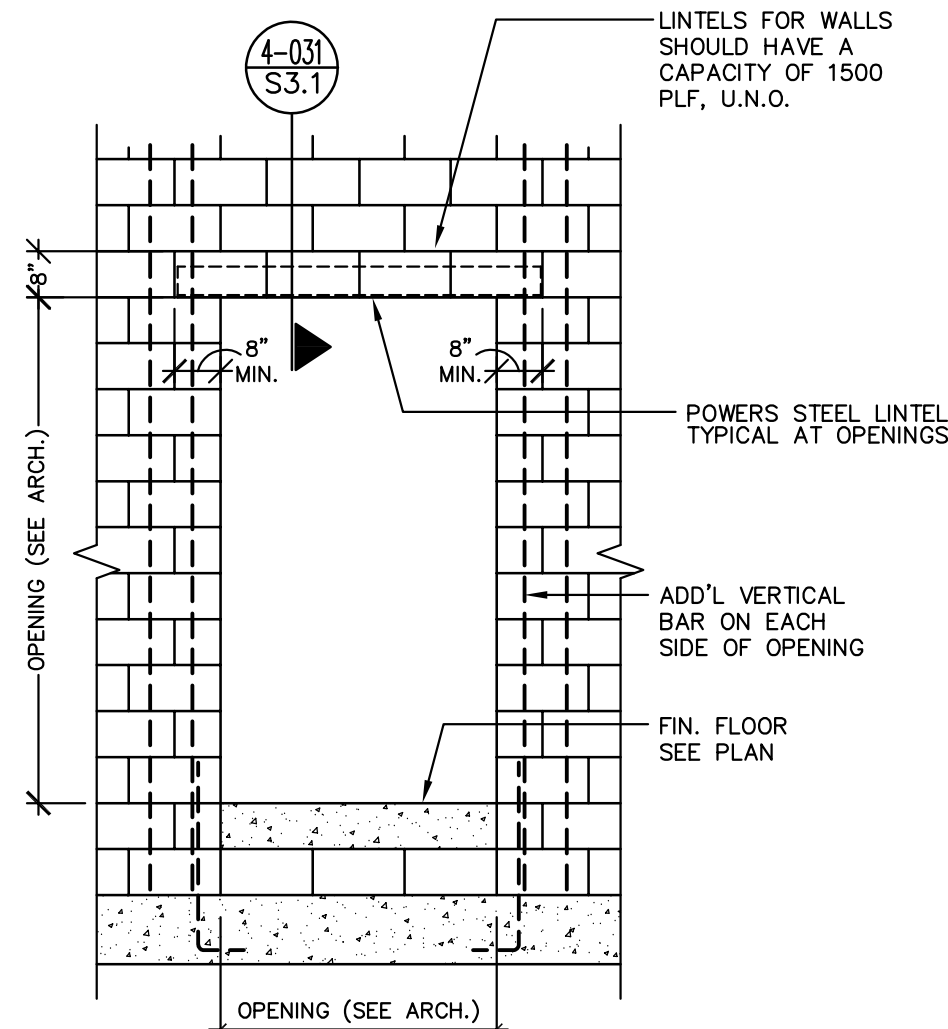
4-001



TYPICAL LINTEL OVER DUCT OPENING

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

4-004



TYPICAL LINTEL OVER OPENING

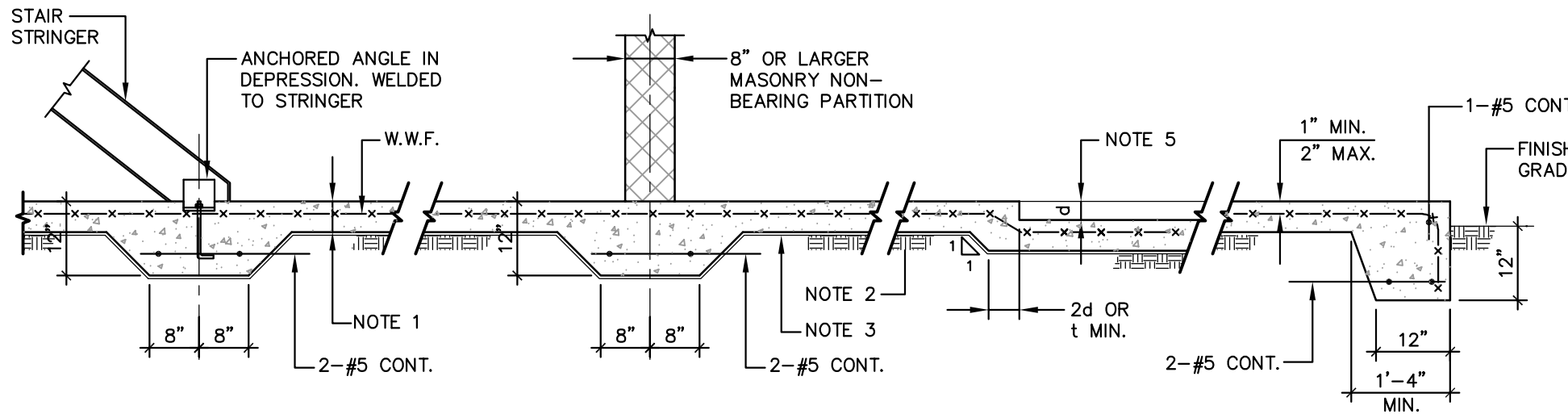
SCALE: 3/8" = 1'-0"

4-005

TYP. PRECAST LINTEL SECTION

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

4-031



AT STAIR

HAUNCH AT PARTITION (NO JOINT)

AT DEPRESSION

EXTERIOR PLATFORM

UNLESS NOTED ON PLANS:

- SEE FOUNDATION NOTES FOR SLAB THICKNESS AND REINFORCING.
- SLABS SHALL BEAR ON COMPACTED FILL.
- COMPACTED FILL SHALL BE COVERED WITH VAPOR BARRIER. SEE SPECS.
- UNDER MACHINE EQUIPMENT DEEPEN SLAB TO 8" AND ADD TWO LAYERS OF WELDED WIRE FABRIC BOTTOM, U.N.O.
- FOR DEPRESSIONS - SEE ARCHITECTURAL DRAWINGS.
- AT CONSTRUCTION JOINTS USE WOOD FORMS WITH SHEAR KEYS.
- STOP WIRE MESH AT CONSTRUCTION JOINTS. CUT EVERY OTHER WIRE AT SAWCUT JOINT.
- WHERE SLAB IS DOWELED INTO WALL, FIRST SLAB CONSTRUCTION JOINT TO BE NOT MORE THAN 15 FEET FROM WALL.
- FOR EXPANSION JOINT LOCATION SEE PLAN. FOR DETAILS SEE ARCHITECTURAL DRAWINGS.

TYPICAL SLAB ON GRADE DETAILS

SCALE: N.T.S.

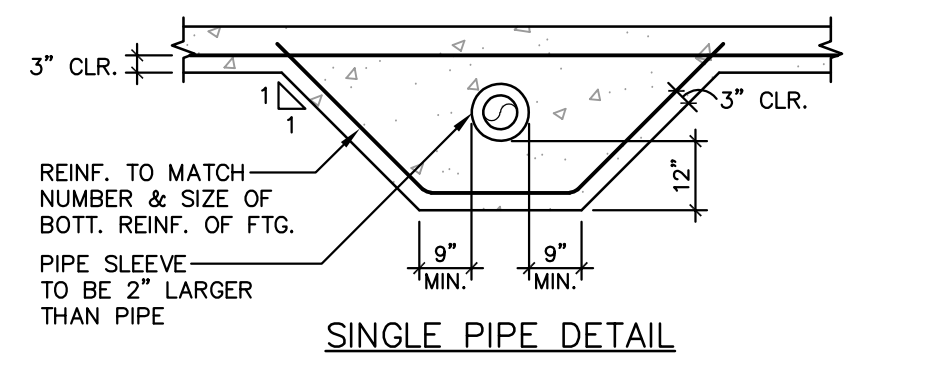
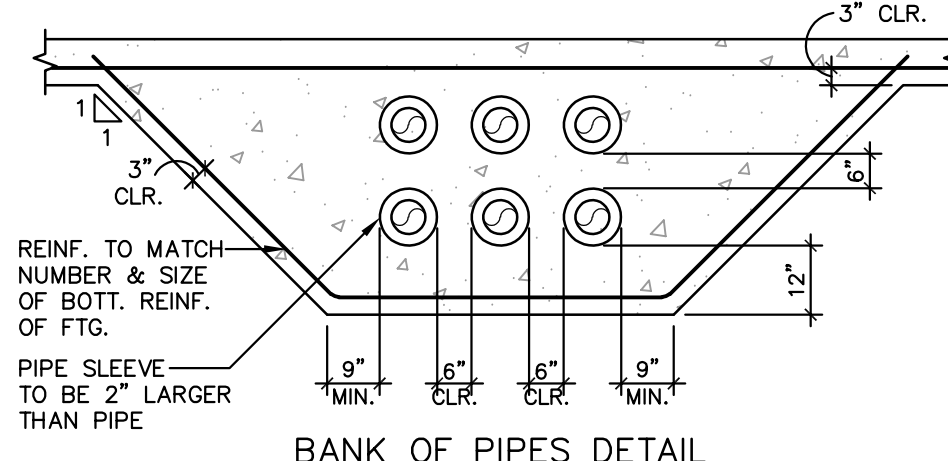
3-202

THE MINIMUM CLEAR COVER FOR REINFORCEMENT BARS SHALL BE ONE BAR DIAMETER OR THE VALUES TABULATED BELOW, WHICHEVER IS THE GREATER.	
SLABS (L.T.WT. CONC. OR STONE CONC.)	1"
GIRDERS AND BEAMS (TO STIRRUPS)	1 1/2"
JOISTS (STONE OR L.T.WT.) BOTTOM BARS	1 1/4"
TIED COLUMNS AND PIERS	
SURFACE EXPOSED TO EARTH AND WEATHER (TO TIES)	2"
OTHER SURFACES (TO TIES)	1 1/2"
FOUNDATION ELEMENTS	
FORMED SURFACES	2"
SURFACES PLACED AGAINST EARTH	3"
WALLS	
SURFACES EXPOSED TO EARTH	2"
SURFACES EXPOSED TO WEATHER	1 1/2"
OTHER SURFACES	1"

TYPICAL CONCRETE COVER FOR REINFORCING BARS

SCALE: N.T.S.

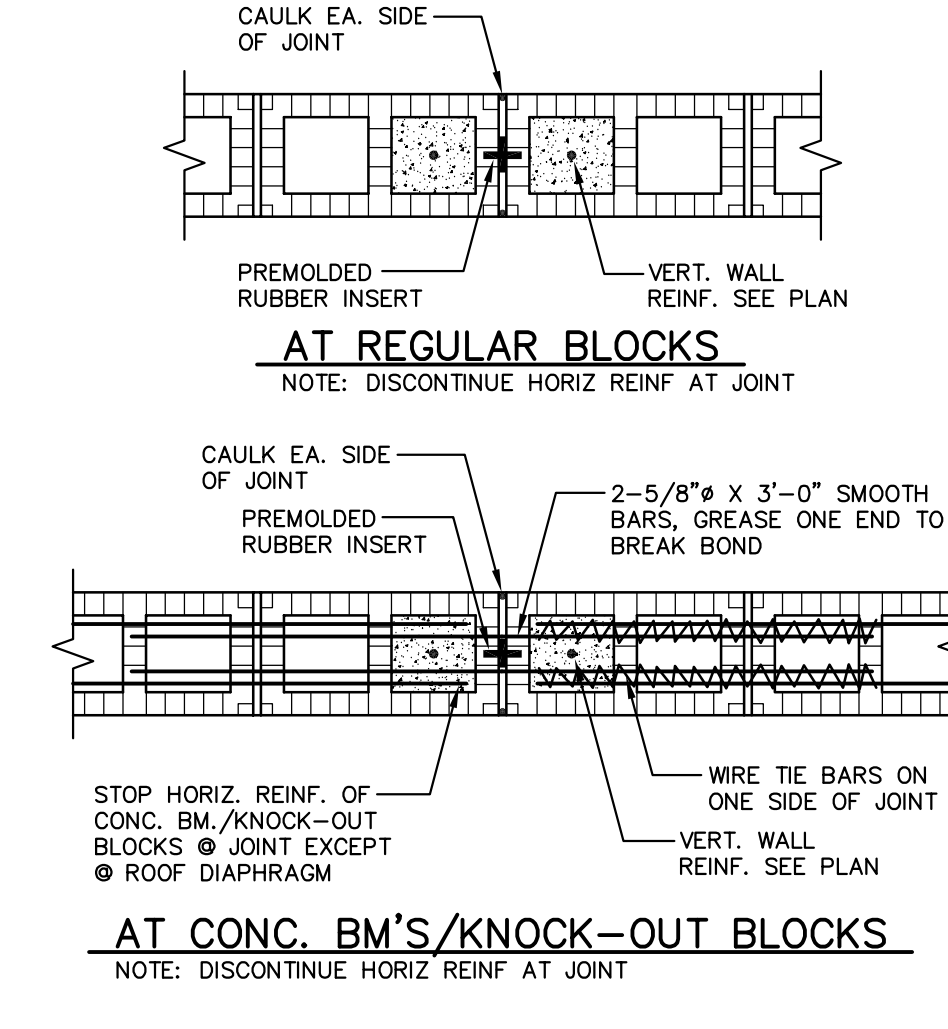
3-064



PIPE SLEEVE DETAIL AT FOUNDATION

SCALE: N.T.S.

3-054



MASONRY CONTROL JOINT

SCALE: 1" = 1'-0"

NOTE:

- MAXIMUM SPACING OF CONTROL JOINT EQUALS 24'-0" OR THREE TIMES WALL HEIGHT (WHICH EVER IS SMALLER)

4-002

NOTE:
IN CASE OF CONFLICT BETWEEN INFORMATION SHOWN ON THIS DRAWING, SECTION DRAWINGS OR ARCHITECTURAL DRAWINGS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INFORM THE ARCHITECT AND ENGINEER OF SUCH CONFLICT IN ORDER TO RECEIVE A CLARIFICATION BEFORE PROCEEDING TO WORK. DIMENSIONS, SIZES AND REINFORCEMENT OF STRUCTURAL ELEMENTS SHOWN IN THIS DRAWING ARE MINIMUM TO BE USED UNLESS NOTED OTHERWISE (U.N.O.) IN PLANS.

NEW TAMPA RECREATION CENTER ADDITION
TAMPA, FL 33647

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I CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THESE DRAWINGS AND SPECIFICATIONS COMPLY WITH ALL APPLICABLE RELEVANT BUILDING CODES.

FGA PROJECT NUMBER
18015

ISSUE DATE
11/07/18

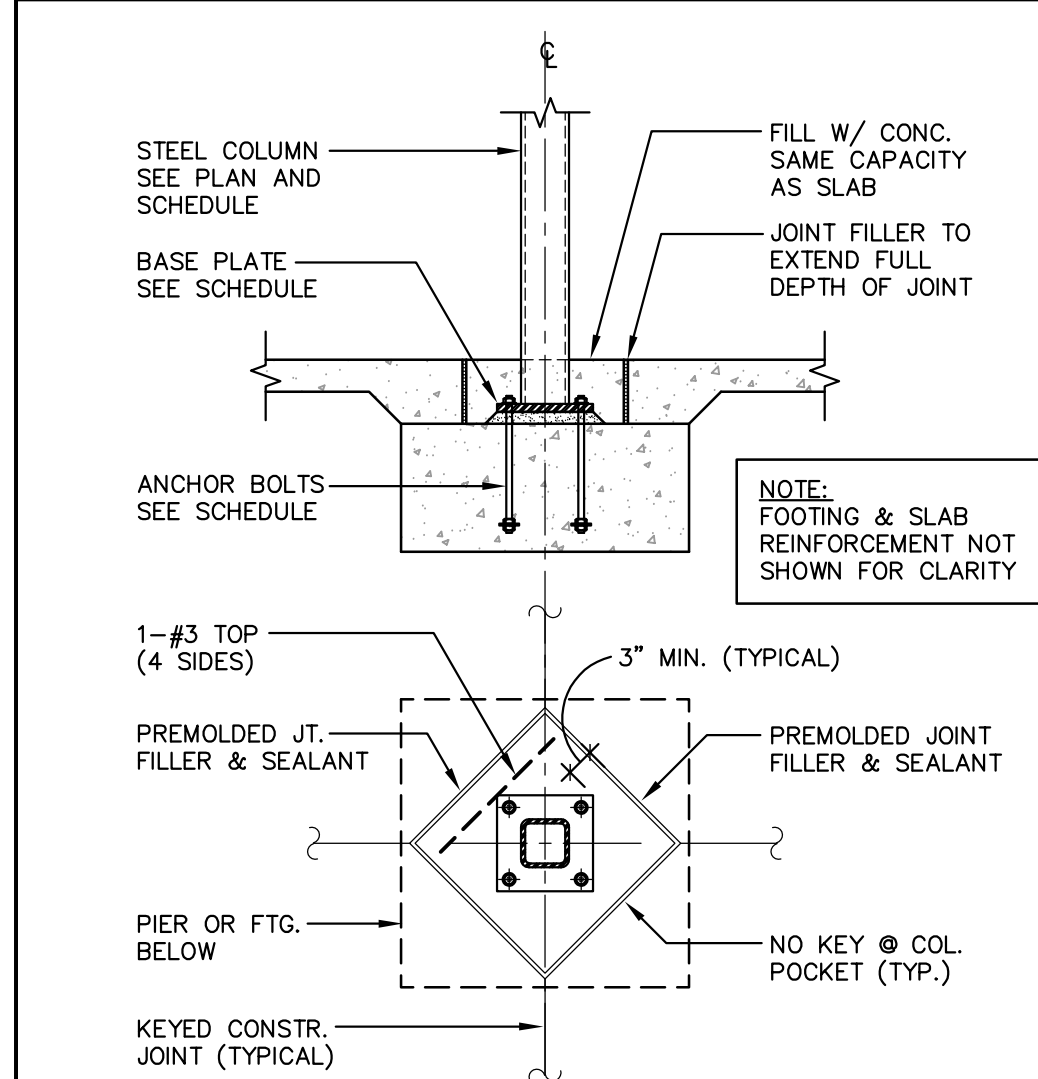
TYPICAL DETAILS

SHEET NUMBER
S3.1

FleischmanGarcia
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TYPICAL STEEL COLUMN ISOLATION JOINT DETAIL
SCALE: N.T.S.

3-013

LAP SPLICE SCHEDULE FOR SINGLE REINFORCED 8" CMU		
BAR SIZE	LAP SPLICE	REMARKS
#3	18	
#4	24	
#5	30	
#6	36	
#7	42	
#8	48	
#9	54	

NOTES:

1. LENGTH OF SPLICES ARE BASED ON FLORIDA BUILDING CODE (SIXTH EDITION) 2017.
2. LAP SPLICES INDICATED ARE IN INCHES.
3. THIS SCHEDULE IS FOR 8" CONCRETE MASONRY UNITS (CMU) ONLY.
4. SEE DETAIL FOR LAP SPLICE SCHEDULE FOR DOUBLE REINFORCED 8" CMU.

LAP SPLICE SCHEDULE SINGLE REINFORCED 8" CMU

4-023

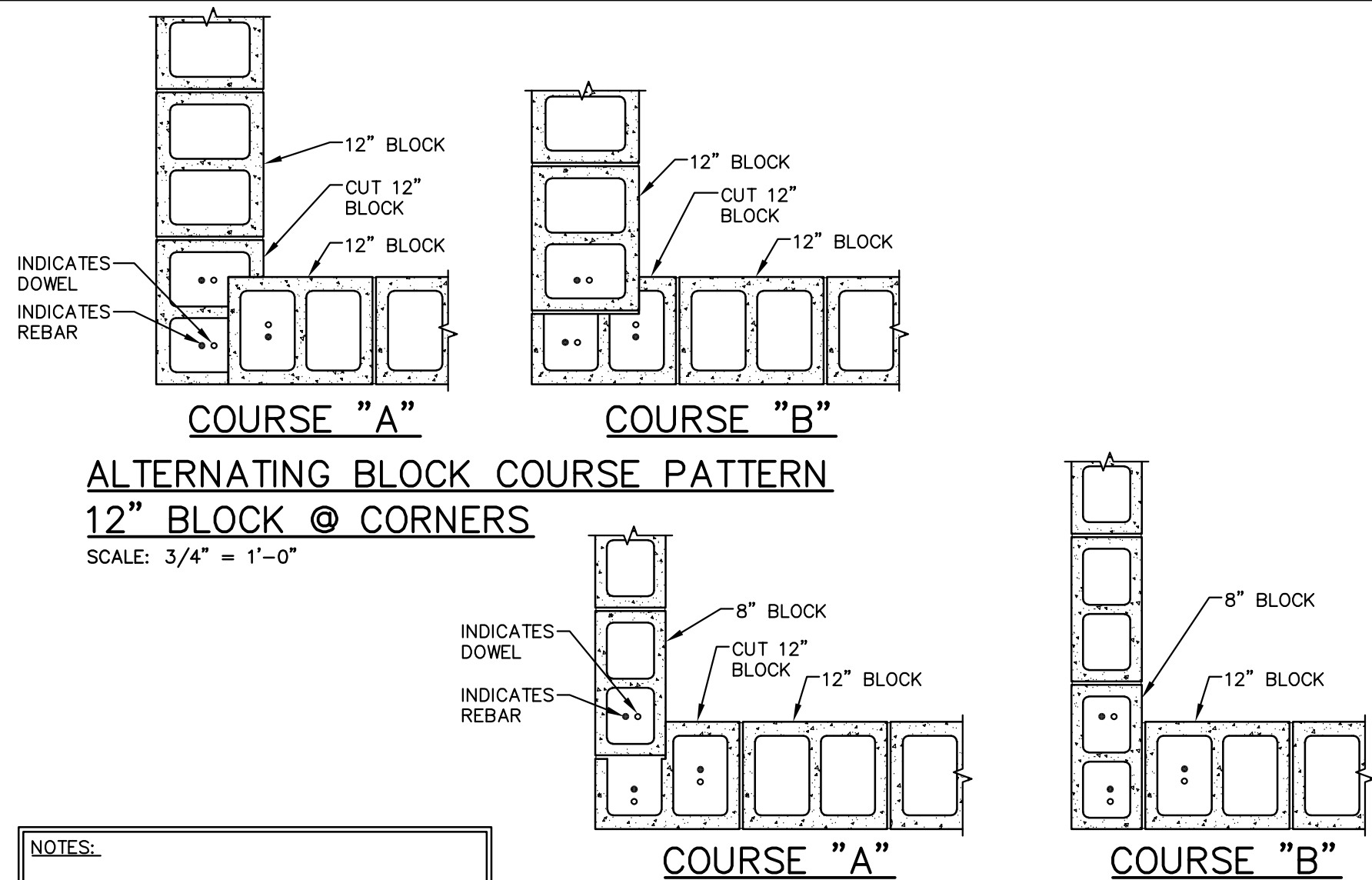
LAP SPLICE SCHEDULE FOR DOUBLE REINFORCED 12" CMU		
BAR SIZE	LAP SPLICE	REMARKS
#3	18	
#4	24	
#5	30	
#6	36	
#7	42	
#8	48	
#9	54	

NOTES:

1. LENGTH OF SPLICES ARE BASED ON FLORIDA BUILDING CODE (SIXTH EDITION) 2017.
2. LAP SPLICES INDICATED ARE IN INCHES.
3. THIS SCHEDULE IS FOR 12" CONCRETE MASONRY UNITS (CMU) ONLY.

LAP SPLICE SCHEDULE DOUBLE REINFORCED 12" CMU

4-026

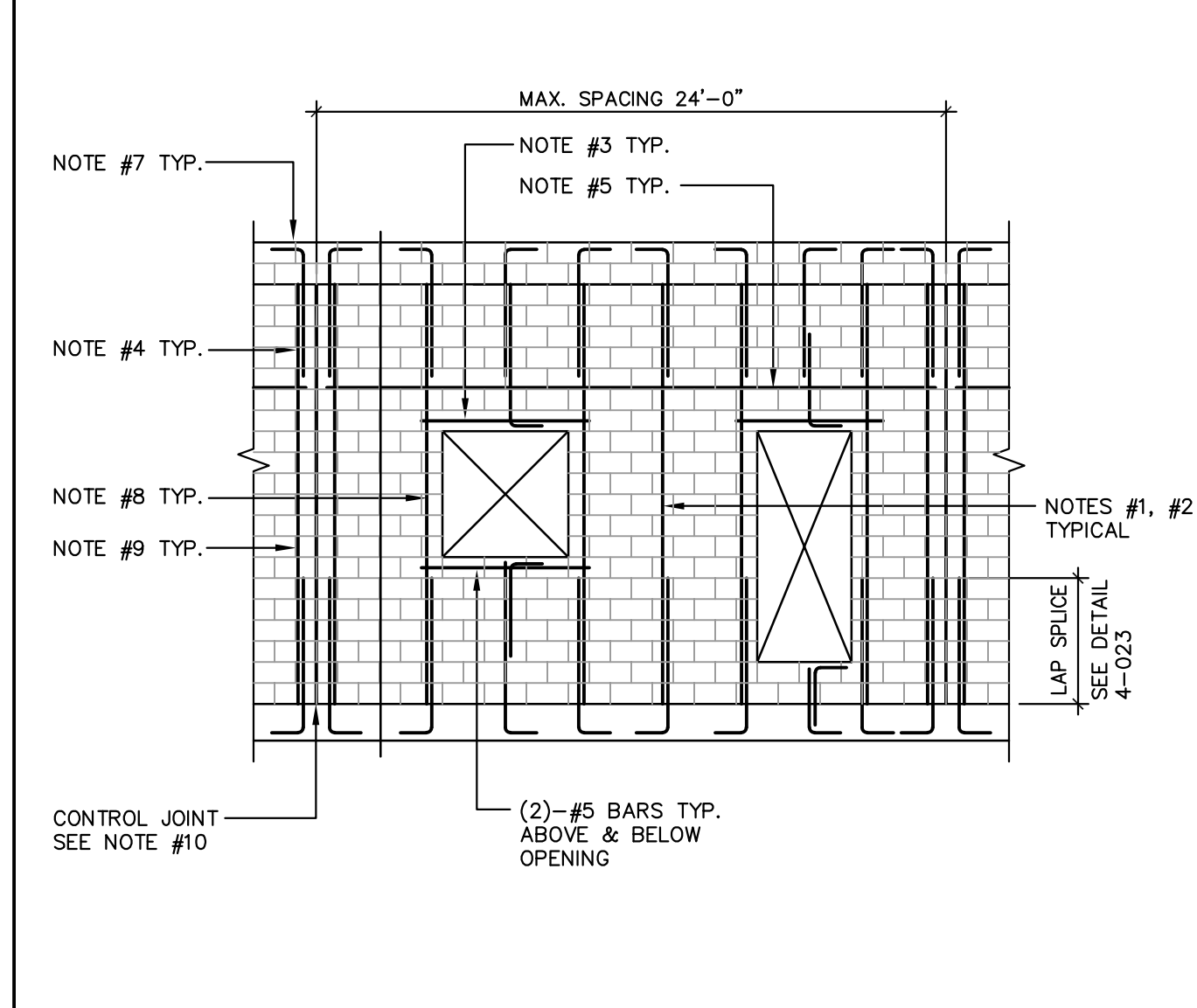


- NOTES:**
1. BAL. OF REINFORCEMENT NOT SHOWN FOR CLARITY.
 2. SEE PLAN FOR VERTICAL AND HORIZONTAL WALL REINFORCEMENT.

ALTERNATING BLOCK COURSE PATTERN 12" BLOCK INTERSECTING W/ 8" BLOCK
SCALE: 3/4" = 1'-0"

4-083

NOTE:
IN CASE OF CONFLICT BETWEEN INFORMATION SHOWN ON THIS DRAWING, SECTION DRAWINGS OR ARCHITECTURAL DRAWINGS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INFORM THE ARCHITECT AND ENGINEER OF SUCH CONFLICT IN ORDER TO RECEIVE A CLARIFICATION BEFORE PROCEEDING TO WORK. DIMENSIONS, SIZES AND REINFORCEMENT OF STRUCTURAL ELEMENTS SHOWN IN THIS DRAWING ARE MINIMUM TO BE USED UNLESS NOTED OTHERWISE (U.N.O.) IN PLANS.



CMU WALL REINFORCING LAYOUT
SCALE: 3/16" = 1'-0"

4-009

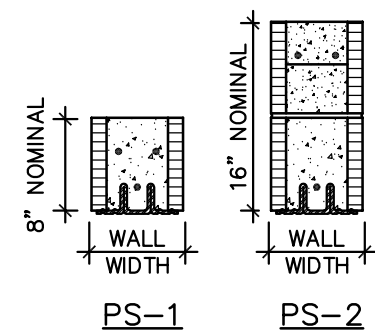
NOTES:

1. VERTICAL WALL REINFORCING SHALL ALIGN WITH VERTICAL FOUNDATION DOWELS. DOWELS SHALL BE PLACED AS SHOWN ON DETAILS WITH STANDARD AG HOOK DIRECTLY ON TOP OF BOTTOM LAYER OF FOOTING REINFORCING. REFER TO CMU WALL REINFORCING SCHEDULE ON PLAN FOR SIZE AND SPACING.
2. TYPICAL VERTICAL WALL REINFORCING TO BE PLACED AS SHOWN ON DETAILS. GROUT CELLS FULL THAT CONTAIN REINFORCEMENT. REFER TO CMU LINTEL SCHEDULE FOR SIZE, LOCATION AND QUANTITY OF LINTEL REINFORCEMENT.
3. VERTICAL REINFORCING BARS MAY BE SPLICED IN 6'-0" TO 8'-0" LENGTHS.
4. HORIZONTAL WALL REINFORCING SHALL BE TRUSS TYPE AT 16" O.C. ABOVE GRADE AND 8" O.C. BELOW GRADE UNLESS OTHERWISE NOTED ON PLANS AND DETAILS. DISCONTINUE AT CONTROL JOINTS.
5. CONTRACTOR SHALL USE THE LOW LIFT METHOD OF GROUTED MASONRY CONSTRUCTION UNLESS CLEAN OUTS ARE PROVIDED AT EACH VERTICAL REINFORCING BAR.
6. REFER TO PLANS AND DETAILS FOR SIZE AND LOCATION OF BOND BEAMS AND QUANTITY OF REINFORCING. LAP REINFORCING 24" MINIMUM. DISCONTINUE BOND BEAMS AT CONTROL JOINTS. REFER TO LINTEL SCHEDULE NOTES FOR VERTICAL BARS ADJACENT TO OPENING.
7. PROVIDE VERTICAL WALL REINFORCING IN FIRST CELL NEXT TO CONTROL JOINTS/CORNERS/OPENINGS. TYPICAL.
8. VERTICAL CONTROL JOINTS SHALL TERMINATE AT TOP OF FOOTING.
9. PROVIDE CORNER BARS TO MATCH TYPE AND QUANTITY OF HORIZONTAL WALL REINFORCING, TYPICAL.

POWERS LINTEL SCHEDULE				
MARK	POWERS LINTEL	LINTEL DEPTH	BOTTOM REINFORCING	TOP REINFORCING
PS-1	PSB-8	8"	(1)-#5	(2)-#5
PS-2	PSB-16	16"	(1)-#5	(2)-#5

PROVIDE POWERS LINTELS AT INTERIOR WALL OPENINGS ONLY. SEE PLANS FOR LOCATIONS.

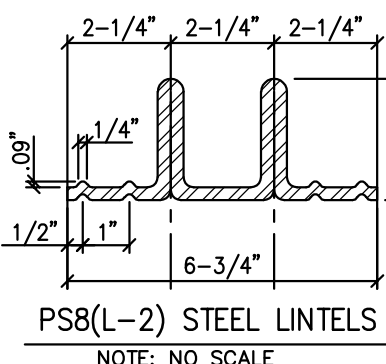
MASONRY LINTELS (ML-#) MUST BE SHORED AND GROUTED SOLD TO FORM AN INTEGRAL BEAM. SHORING IS TO REMAIN IN PLACE UNTIL GROUT HAS REACHED FULL DESIGN STRENGTH.



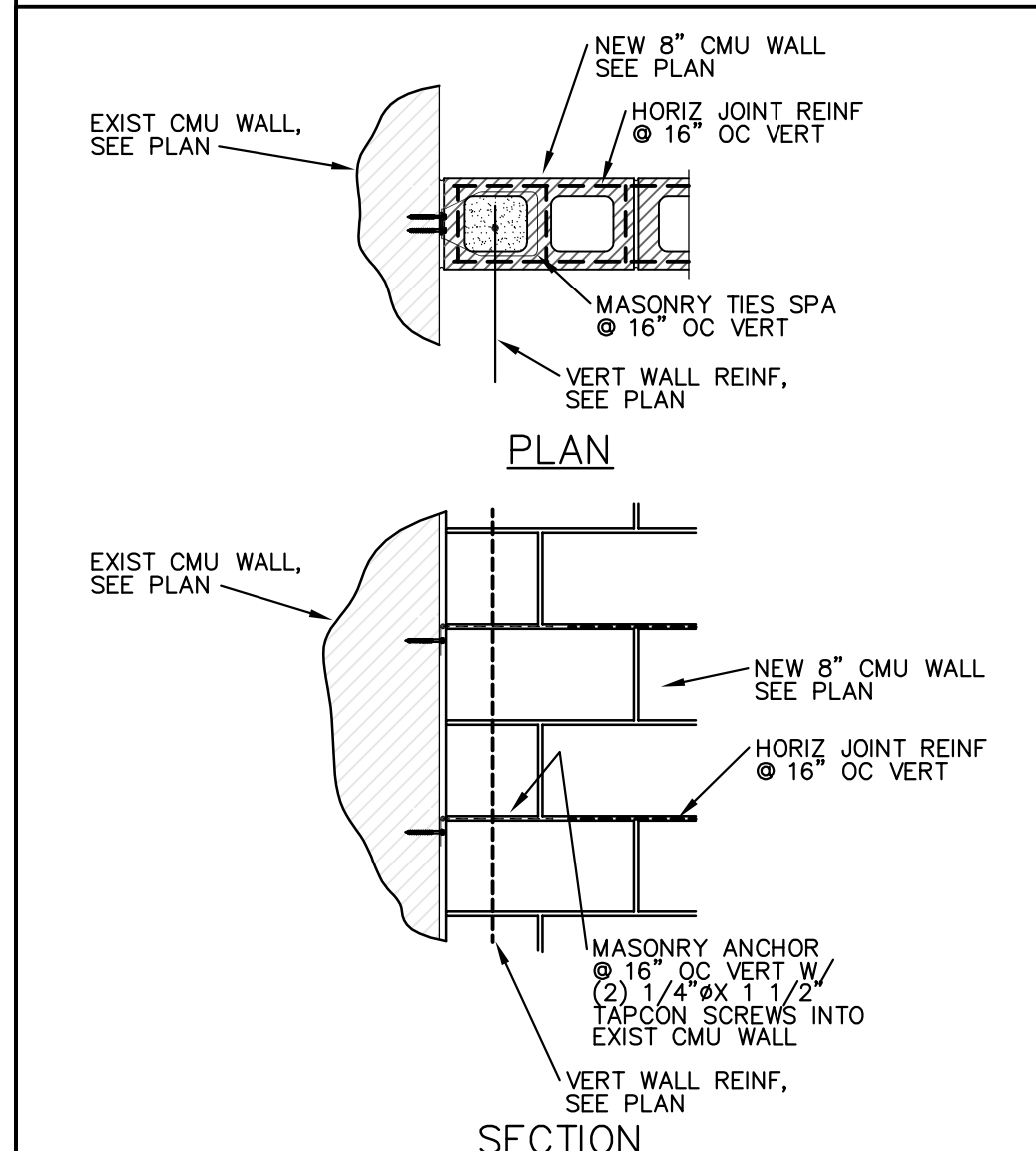
TYPICAL POWERS LINTEL DETAILS

POWERS LINTEL NOTES

1. PRODUCT NAME (PATENT NO. 5465538)
PREFORMED POWERS STEEL LINTEL SHALL BE GALVANIZED COIL STEEL AS MANUFACTURED BY POWERS STEEL AND WIRE PRODUCTS, INC. STEEL GRADE SHALL BE ASTM A570 GRADE C (Fy = 40 ksi.)
2. SHORE LINTELS AS REQUIRED TO COMPENSATE FOR DEAD LOAD DEFLECTION ON NON-CURED MASONRY GROUT. ALL LINTELS GREATER THAN 18'-0" ARE BUILT WITH 1/2" CAMBER.
3. LINTELS TO BE USED WITH BRICK OR CONCRETE MASONRY UNITS HAVING A MINIMUM Fm AS SHOWN.
4. STEEL SURFACES IN CONTACT WITH GROUT AND/OR MORTAR SHALL BE UNPAINTED AND FREE OF MATERIAL THAT MIGHT INHIBIT BOND.
5. BEARING EACH END SHALL BE 3" PLUS OR MINUS 1/2". BEARING SHALL BE ON A MINIMUM 8" DEEP GROUTED CELL PER THE STANDARD BUILDING CODE.
6. Fm: 1500 psi. MASONRY UNITS SHALL CONFORM TO ASTM C90, GRADE N.
7. GROUT: 3,000 psi. SLUMP RANGE: 8" TO 11". ROD OR VIBRATE GROUT ADEQUATELY TO ENSURE CONSOLIDATION OF GROUT (NO AIR POCKETS). GROUT SHALL COMPLY WITH ASTM C476-83 AND BE EITHER COARSE OR FINE GROUT.
8. MORTAR: TYPE "S" OR TYPE "M" 1800 psi.
9. TOP REINFORCING OR TOP OF WALL REINFORCING, IS REQUIRED BY CODES TO PROVIDE A CONTINUOUS TIE AROUND A STRUCTURE AND TO PROVIDE FOR UPLIFT RESISTANCE AT LINTELS.
10. ATTACHMENTS TO TOP OF WALL PER ARCHITECTURAL AND/OR ENGINEERING DRAWINGS.
11. LIMITATIONS:
THE LINTELS SHALL NOT EXCEED THE ALLOWABLE DESIGN LOADS AND SPANS SHOWN IN THIS REPORT.
THE LINTELS SHALL NOT BE USED IN A FIRE RESISTANCE RATED ASSEMBLY UNLESS A TEST REPORT DOCUMENTING FIRE RESISTANCE IS SUBMITTED TO THE BUILDING OFFICIAL.
A PROPER BARRIER IS REQUIRED WHEN USING CORROSIVE LUMBER PRODUCTS IN CONTACT WITH THE STEEL LINTELS. A PROPER BARRIER WOULD BE A POLYETHYLENE BARRIER WITH A 10 MIL THICKNESS OR TO MAINTAIN A MIN. 1/4" SPACING BETWEEN THE CORROSIVE LUMBER AND STEEL LINTEL.
NOT FOR USE IN THE HVHZ IN MIAMI OR BROWARD COUNTIES AT THIS TIME. MIAMI DADE COMPLIANCE IS BEING SOUGHT.
12. DEFLECTION LIMITS ARE SET TO L/600 FOR ALL LOADS SHOWN ABOVE THE DARKENED SOLID LINE. DEFLECTION LIMITS ARE SET TO L/360 [LIVE LOAD] AND L/240 [DEAD + LIVE LOAD] FOR ALL LOADS SHOWN BELOW DARKENED SOLID LINE, EXCEPT 8" COMPOSITE LINTELS WHICH ARE SET TO L/240 [LIVE LOAD] AND L/180 [DEAD + LIVE LOAD].
13. ALL LOADS SHOWN IN TABLES ARE SUPERIMPOSED LOADS. TABLES ARE DATED 11/2008 AND CLEARLY INDICATE SUPERIMPOSED LOADS.
14. A #5 REINFORCING BAR(S) GRADE 40 IS SET TO APPROX. 1-1/2" FROM TOP OF ALL LINTEL DESIGNS AND IN SOME CASES ON THE BOTTOM OF THE LINTEL AS SHOWN ON LOAD TABLES TOP HORIZONTAL REINFORCEMENT IS TO BE A CONTINUOUS TIE AS NOTED IN NOTE #9. IN THE CASE THAT THE LINTEL IS NOT WITHIN A COMPOSITE BOND BEAM SYSTEM, TOP HORIZONTAL REINFORCEMENT IS TO EXTEND 2'-0" PAST INSIDE OF JAMBS.
15. MANUFACTURER:
POWERS STEEL
2415 WEST GRIFFIN ROAD
LEESBURG, FL 34748
PHONE No. (352) 435-4641
FAX No. (352) 435-4844
16. TECHNICAL DATA AND ENGINEERING POWERS LINTELS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING:
• FLORIDA BUILDING CODE - 2007
• NASPEC/AISI LIGHT GAUGE COLD FORMED STEEL DESIGN - 2001 (W/2004 SUPPLEMENT)
• ACI 530-05/ASCE 5-05/TMS 402-05
17. TECHNICAL ASSISTANCE IS AVAILABLE FROM THE MANUFACTURER ON SPECIAL DESIGN CONCERNS OR LINTEL DEPTHS DIFFERENT THAN THOSE SHOWN IN THE LOAD TABLES.
STRUCTURAL ENGINEER FOR THESE LINTELS IS:
S.E. CONSULTANTS, INC.
5800 E. THOMAS RD., SUITE 104
SCOTTSDALE, AZ 85251
PHONE No. (480) 946-2010
FAX No. (480) 946-1909
IF AN INSPECTOR, CONTRACTOR, SUBCONTRACTOR, OR PLANS EXAMINER HAS ANY TECHNICAL QUESTIONS PLEASE CALL.
INSTALLATION:
POWERS LINTELS ARE TO BE INSTALLED IN ACCORDANCE WITH STANDARD CONSTRUCTION PRACTICES, SET TO PROPER LINE AND LEVEL, PLUMB AND TRUE AND IN CORRECTION TO RELATION TO OTHER WORK.

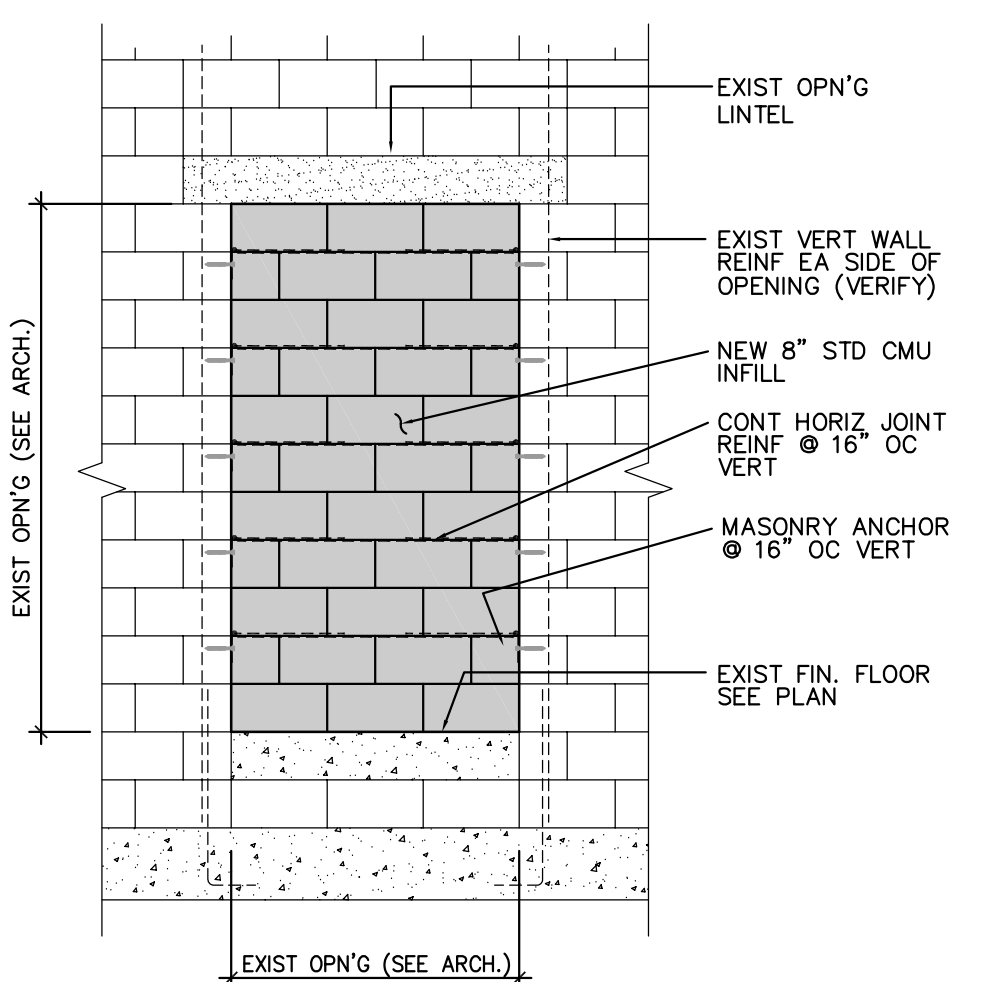


4-033



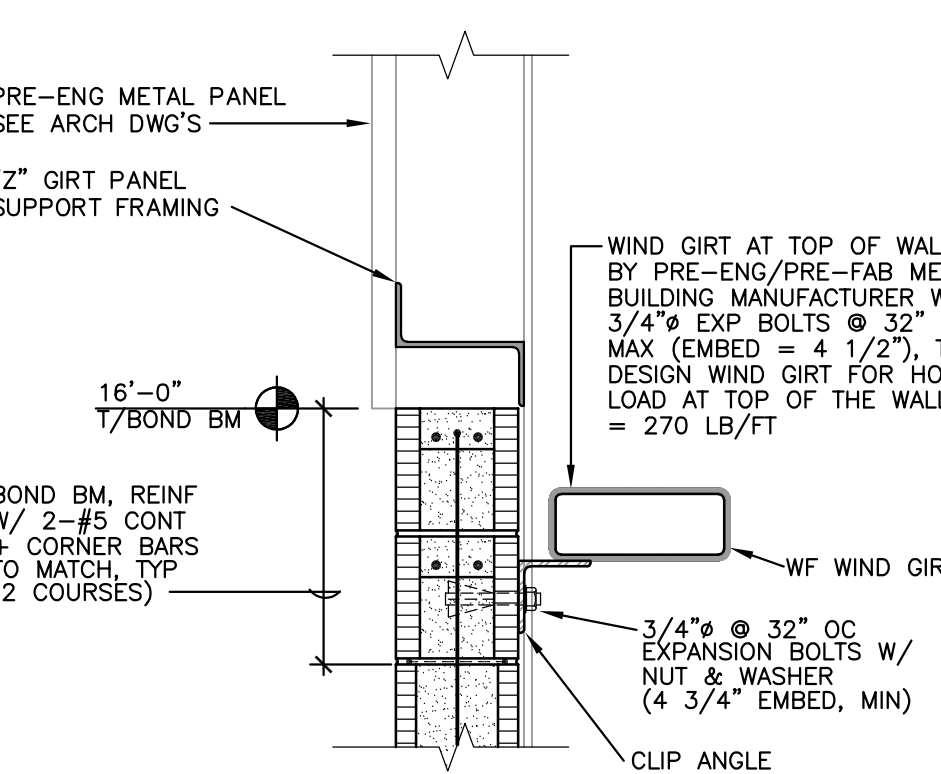
NEW CMU/EXIST CMU TIE DETAIL

4-200



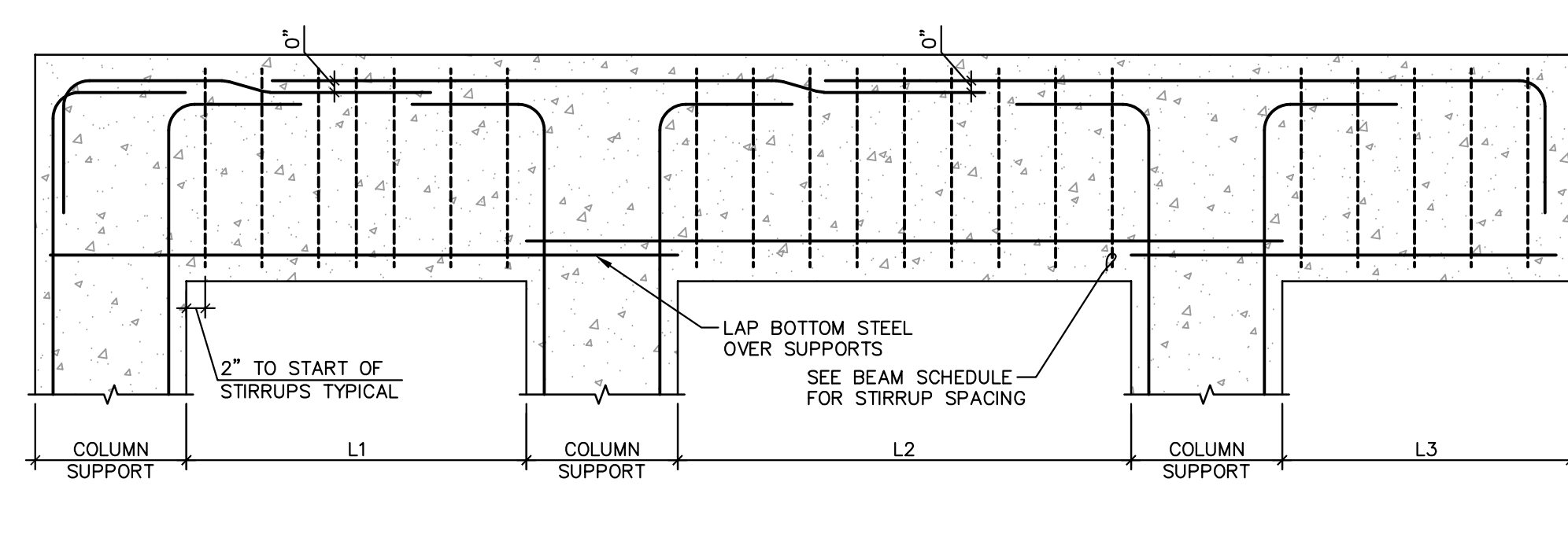
TYPICAL CMU INFILL @ EXIST WALL OPN'G

4-101



WIND GIRTS/CMU WALL CONNECTION DETAIL
SCALE: 1" = 1'-0"

4-100



- NOTE:**
1. WHERE TOP & BOTTOM BARS ARE IN MULTIPLE LAYERS, PROVIDE 1" CLEAR BETWEEN LAYERS TYPICAL.
 2. SEE TENSION AND COMPRESSION LAP SPLICE TABLES FOR PROPER LAP AND CONCRETE STRENGTH.
 3. ALL BOTTOM LAYERS OF STEEL MUST BE LAPPED OVER CENTERLINE OF SUPPORT.
 4. ALL TOP AND INTERMEDIATE LAYERS OF STEEL MUST BE LAPPED AT MID-SPAN OF BEAM.
 5. SEE CONCRETE BEAM SCHEDULE FOR ALL BEAM REINFORCING AND SEE FRAMING PLANS FOR BEAM DESIGNATION AND PLACEMENT.

TYPICAL CONCRETE BEAM BAR PLACEMENT DIAGRAM
SCALE: N.T.S.

3-062

TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE STRUCTURAL PLANS CONFORM TO AND SATISFY THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, 2017 (6TH EDITION), ACI 318-14, AND LOCAL CODES AS APPLICABLE

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SAFETY HARBOR, FLORIDA 34695
PHONE (813) 351-4949
FAX (813) 351-4948
REGISTRATION NUMBER AA 000123

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TAMPA, FL 33647

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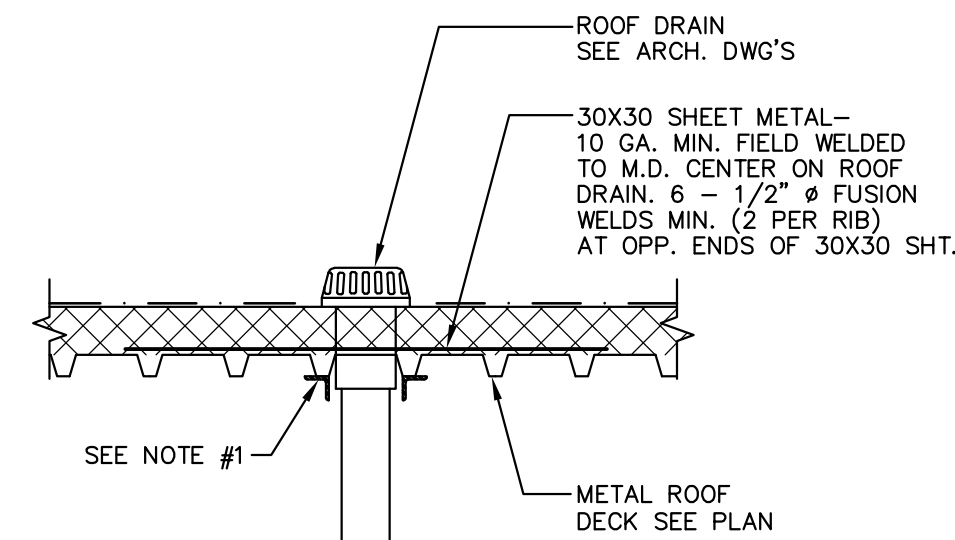
I CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THESE PLANS COMPLY WITH ALL APPLICABLE RELEVANT BUILDING CODES.

FGA PROJECT NUMBER
18015

ISSUE DATE
11/07/18

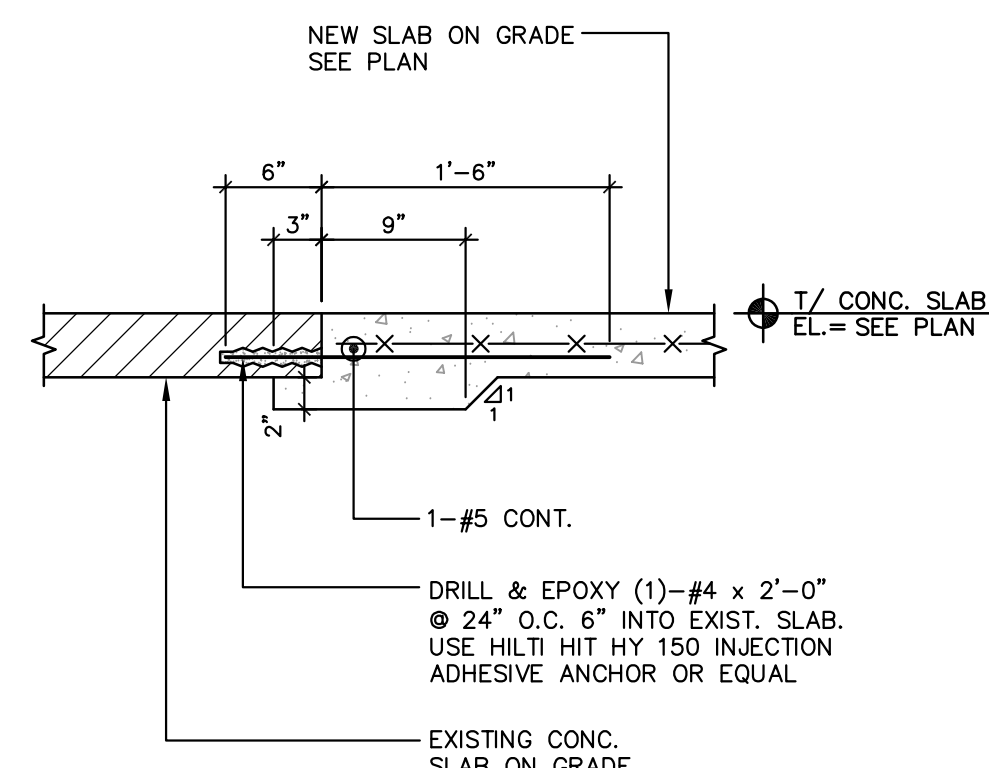
TYPICAL DETAILS

SHEET NUMBER
S3.2

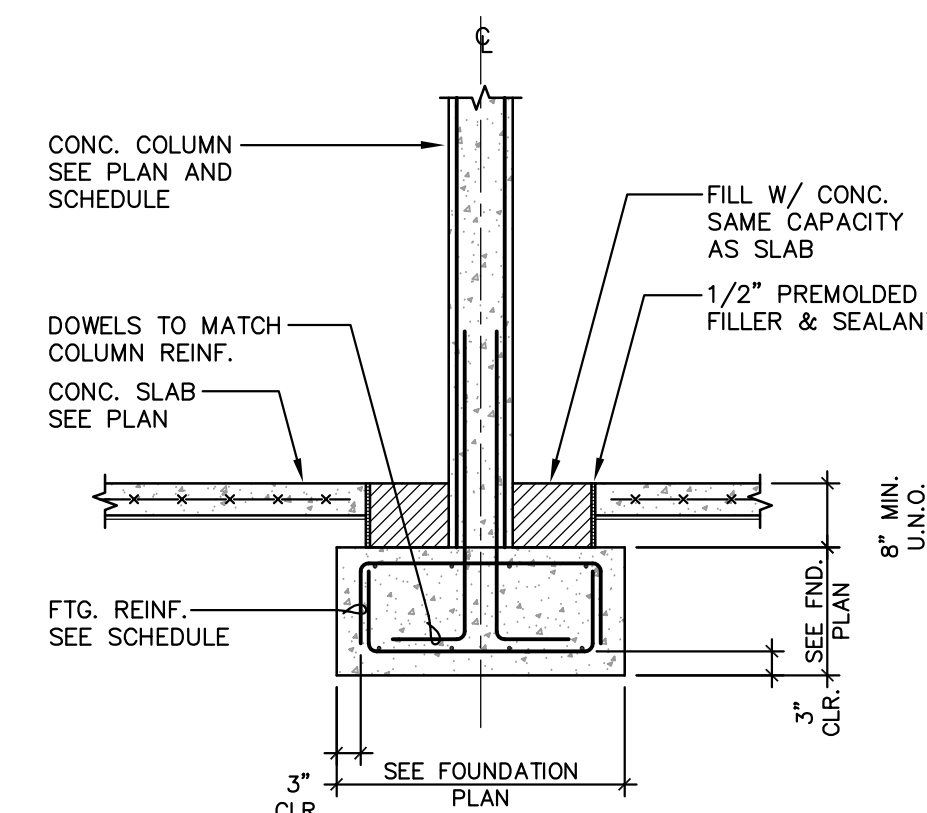


1. SEE DETAIL 5-302 FOR STEEL REINFORCING AROUND ROOF DRAIN OPENING.

NO SCALE

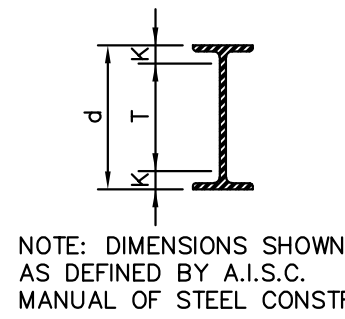


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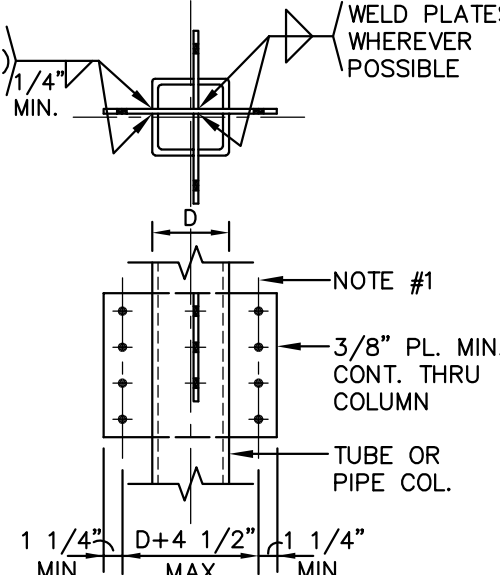


SCALE: N.T.S

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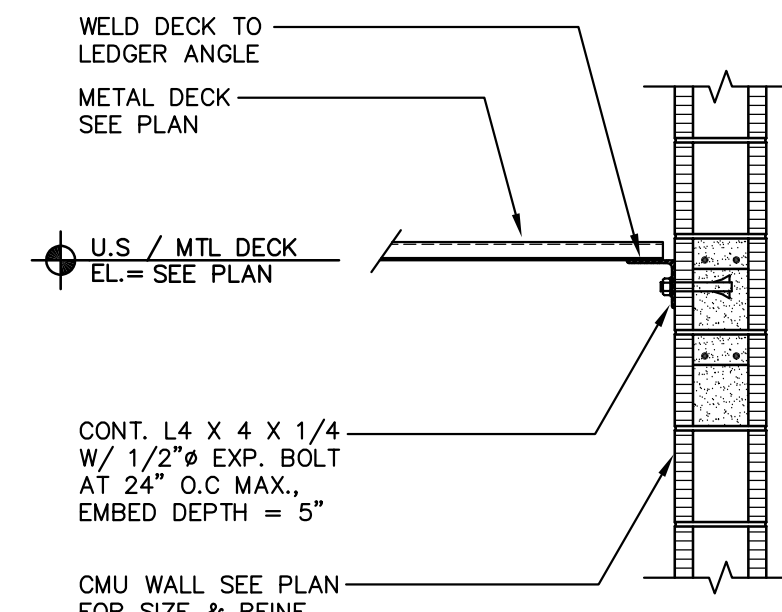


1. ALL CONNECTIONS SHALL BE DESIGNED FOR MAX. UNIFORM LOAD CARRYING CAPACITY UNDER UNIFORM DISTRIBUTION IS SHOWN ON PLAN, IN ANY CASE, CONNECTIONS SHALL NOT BE LESS THAN STD. CONNECTION OF THE PARTICULAR BEAM. DEPTH.
2. DETAILER SHALL SUBMIT FOR APPROVAL, STANDARD DETAIL CONNECTIONS CONFORMING TO ABOVE DETAILS W/ERECTION DRAWING SUBMISSION.
3. MILL BOLTS TO BEAR OR WELD FAST PENETRATION PELD AT BASE PL'S & CAP PL'S AT COLUMNS CARRYING BEAMS.
4. AT CONNECTION OF HUNG BEAM, TO CANTILEVERED BEAMS, PROVIDE STANDARD 2 L-PLATE CONNECTION AS PER NOTE FOR LOAD CAPACITY OF HUNG BEAM.
5. WHERE BEAMS FRAME TO FITTING STIFFENERS AT CONNECTIONS PROVIDE SHEAR PLATE CONNECTION W/ STRENGTH CAPACITY AS PER NOTE.
6. ALL BOLTS TO BE MIN. 3/4" - A-325 H.S. BOLTS. FRICTION- TYPE UNLESS NOTED OTHERWISE. ALL WELDING ELECTRODES TO BE E70. XX.



FRAMED CONNECTION AT
TUBE/PIPE COLUMN

5-001

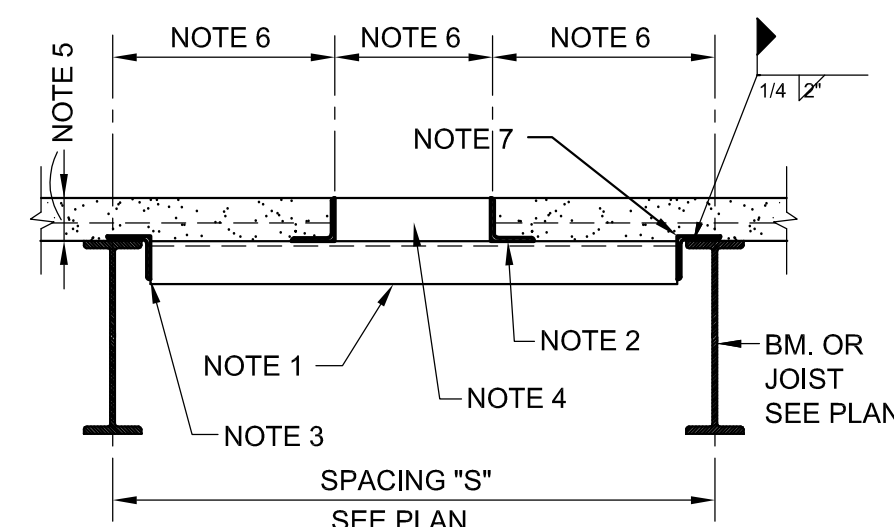


EXPANSION JOINT

NON-EXPANSION JOINT

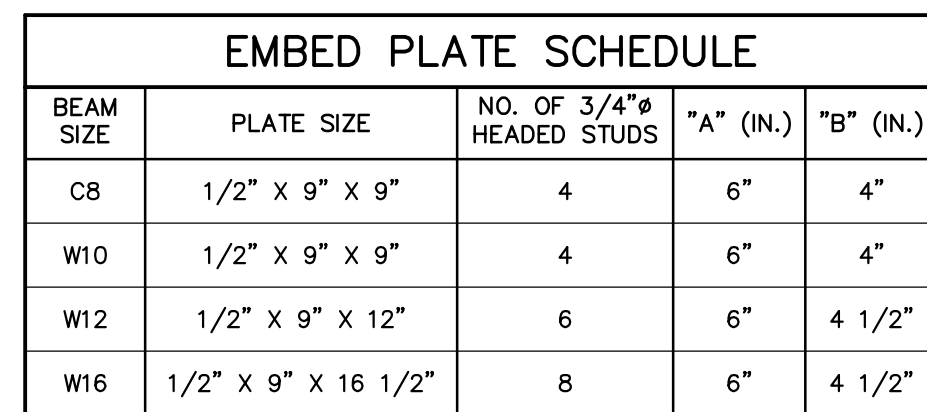
SCALE: $3/4" = 1'-0"$

5-310

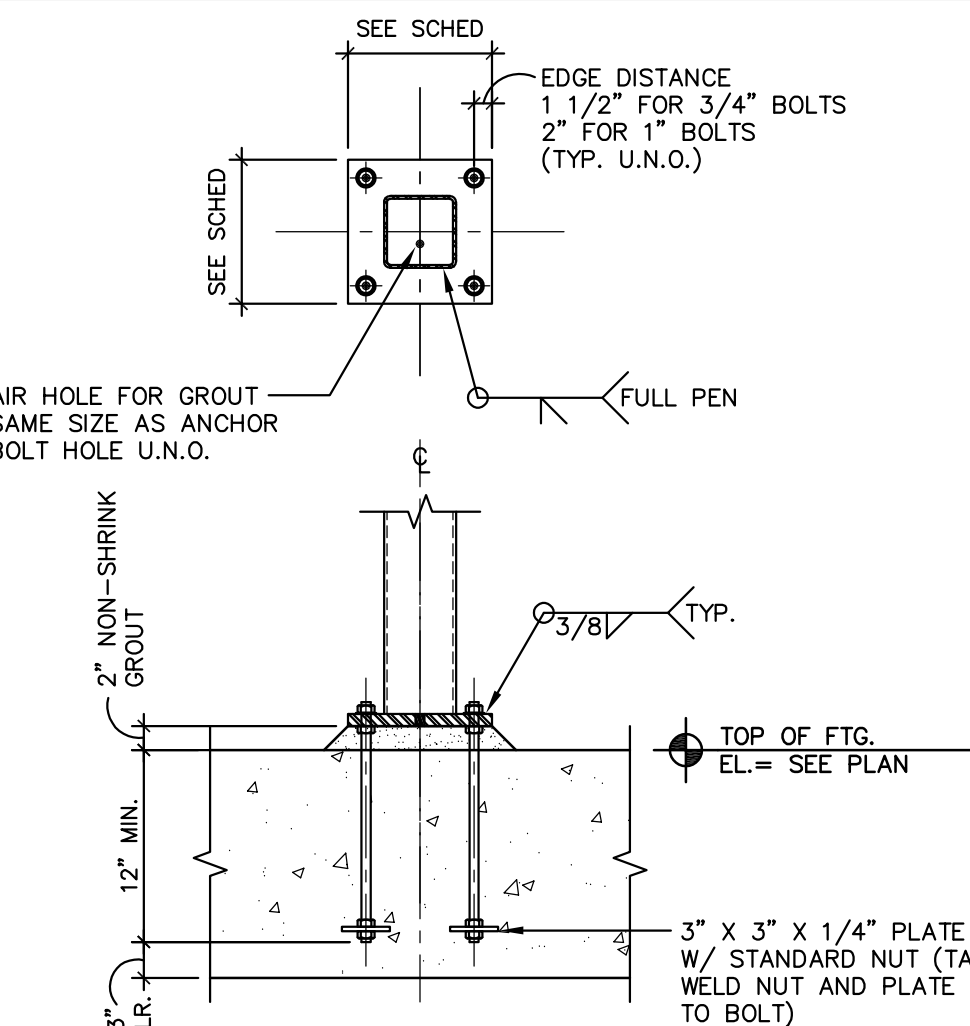


1. FOR "S" LESS THAN 4'-0" USE L3X3X1/4
- FOR "S" LESS THAN 6'-0" USE L4X4X1/4
- FOR "S" GREATER THAN 6'-0" USE L OR W-BM.
- VERT. LEG OF L OR DEPTH OF W-BM.
- > $\frac{SPAN (IN.)}{24}$. MIN. THICKNESS = 1/4"
2. VERT. LEG OF L SAME AS SLAB THICKNESS
- MIN. L THICKNESS = 3/16" FOR SPANS < 4'-0"
- 1/4" FOR SPANS > 4'-0"
3. SEAT SAME SIZE AS ANGLE (NOTE 1)
4. 1/8" PLATE TO TOP OF SLAB.
5. SLAB THICKNESS - SEE PLAN.
6. FOR OPENING SIZE AND LOCATIONS SEE ARCH
- AND MECHANICAL DRAWINGS.
7. SHOP WELD

5-040



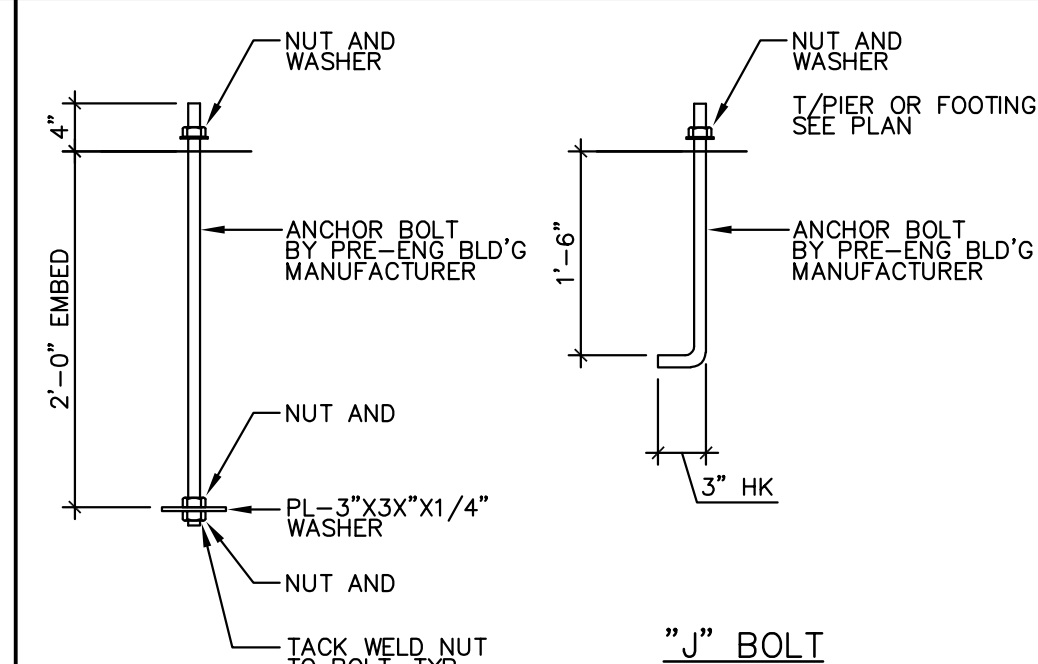
5-005



BASE PLATE – BP1

SCHEDULE OF BASE PLATES		
MARK	SIZE	BOLT QTY/SIZE
BP1	10" X 10" X 1/2"	1/2"Ø F1554 GRADE 36 (12" EMBED MIN)

1. SEE BASE PLATE SCHEDULE FOR BOLTS SIZE AND QUANTITIES.
2. INCREASE LENGTH OF ANCHOR BOLTS BY PIER LENGTH WHEN REQUIRED. EXTEND ANCHOR BOLTS AS REQUIRED TO PROVIDE 3" CLEAR FROM BOTTOM OF FOUNDATION.
3. USE F1554 (36 KS) ANCHOR BOLTS AS NEEDED FOR REACTIONS INDICATED IN DRAWINGS.
4. FOR ANCHOR BOLTS DETAILS, SEE TYPICAL DETAIL 5-101 ON THIS DRAWING.



TENSION BOLT

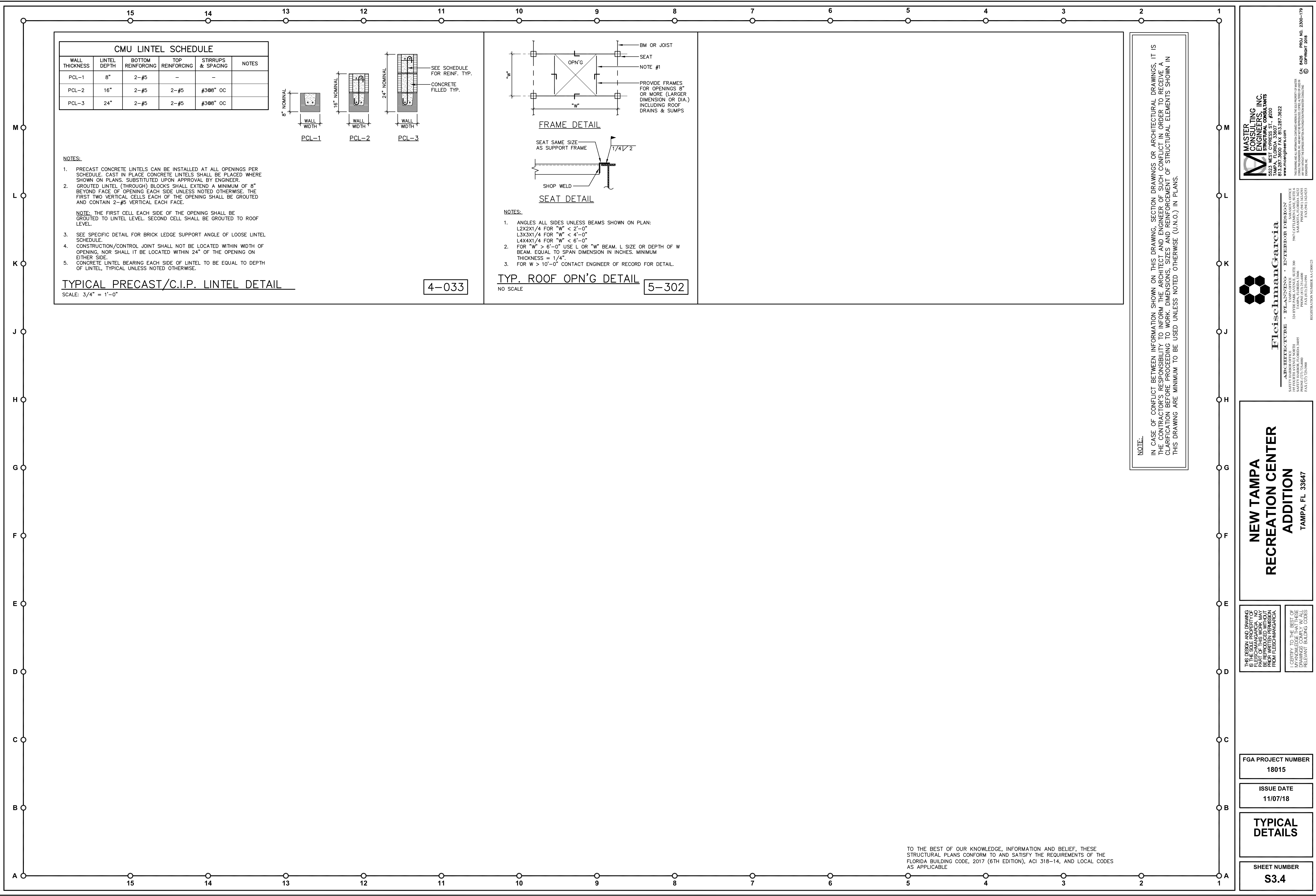
ANCHOR BOLT TYPES

SCALE: 1" = 1'-0"

5-101

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STRUCTURAL PLANS CONFORM TO AND SATISFY THE REQUIREMENTS OF THE
FLORIDA BUILDING CODE, 2017 (6TH EDITION), ACI 318-14, AND LOCAL CODES
AS APPLICABLE

T:\2000 Projects\2000 FleischGarcia\2000-179 New Tampa Rec Center Addition 2018\Drawings\SG1 and SG1.4.dwg 11/07/18 John Vieber 1:2000 Project\2000 FleischGarcia\2000-179 New Tampa Rec Center Addition 2018\Drawings\SG1 and SG1.4.dwg 11/07/18 John Vieber



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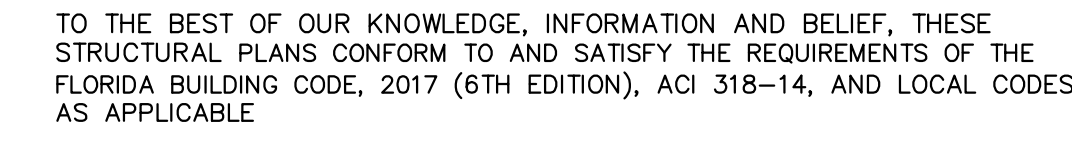
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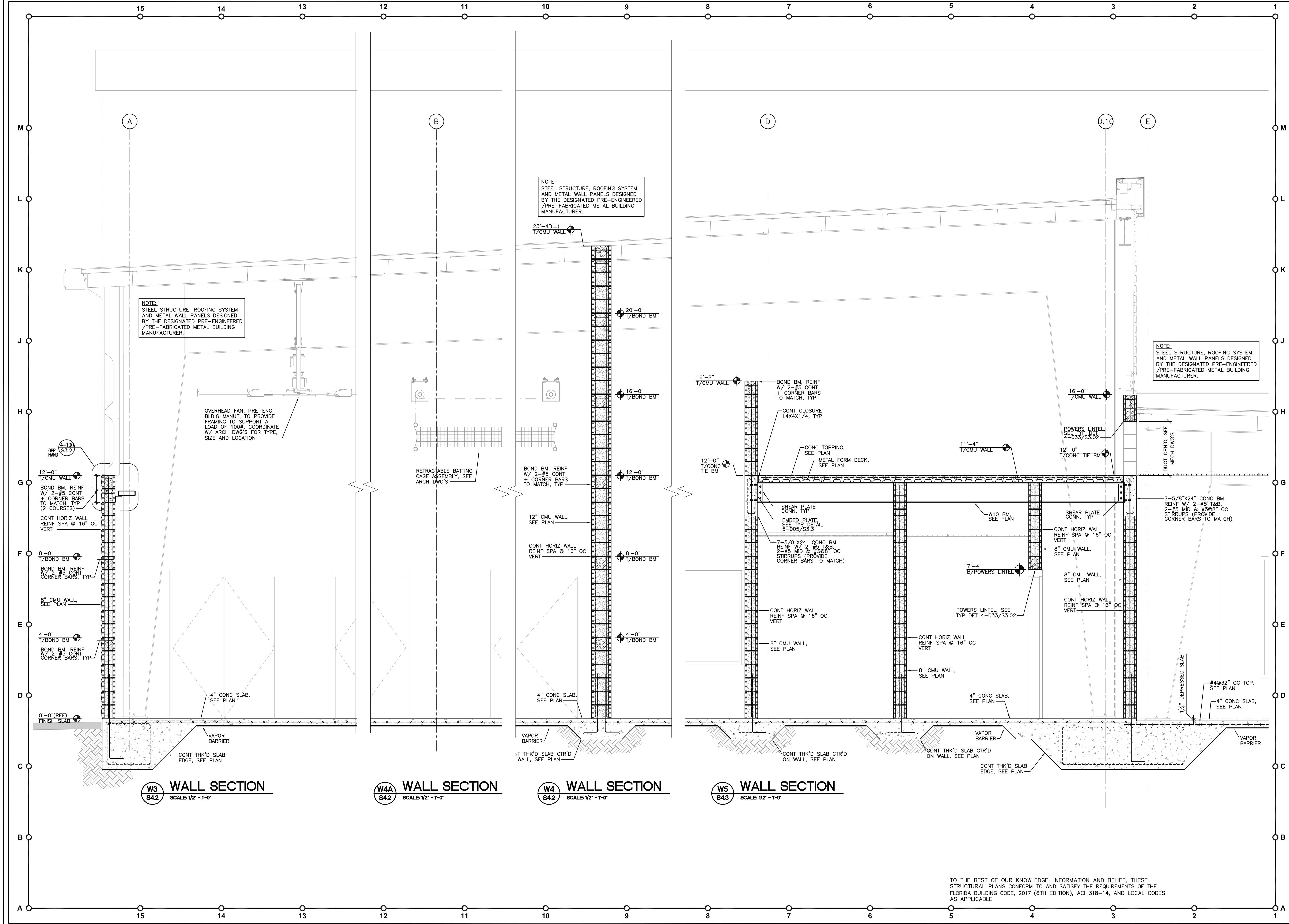
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11-05-18 John Weber T:\2000 Projects\2000 FleischmanGarcia\2000-179 New Tampa Rec Center Addition 2018\Drawings\SA.1 11/07/2018 10:57:21 AM John



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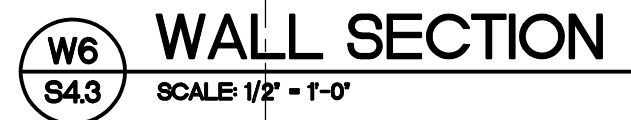
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WALL SECTIONS

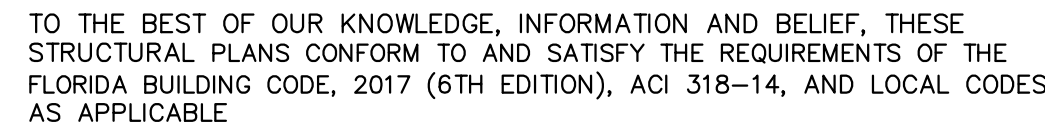
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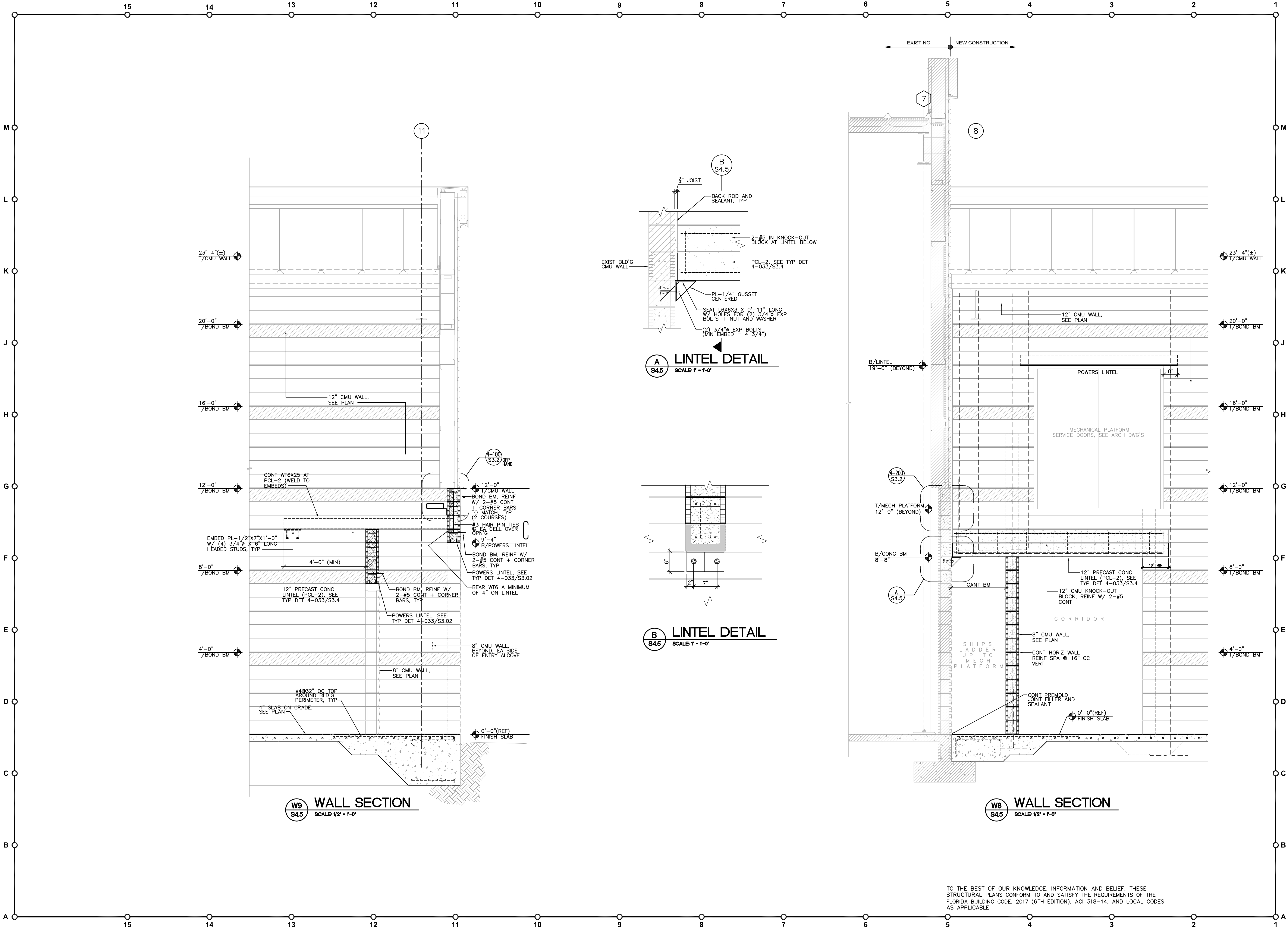
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**NEW TAMPA
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ADDITION**
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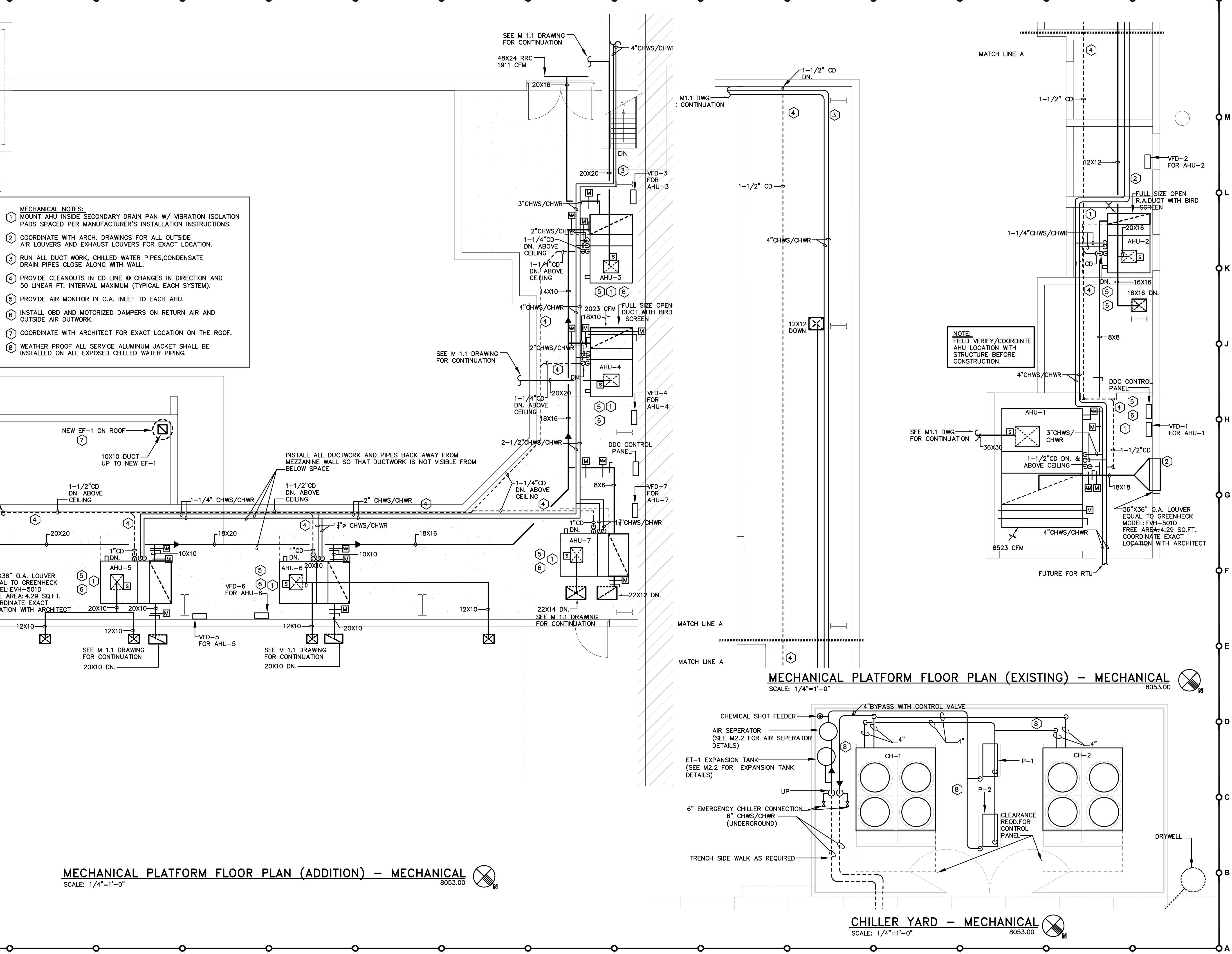
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**WALL
SECTIONS**

SHEET NUMBER
S4.5

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M
L
K
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SHEET NUMBER
M 1.2

MARK	—	CH-1 & CH-2
CAPACITY	TONS	56
CHILLER AMBIENT	—	95
WATER FLOW /MIN. FLOW	G.P.M.	134 / 68
MAX. WATER PRESS. DROP	FT. H ₂ O	12
WATER TEMP. ENT/LVG	°F/°F	54/44
COND.TEMP. MAX. AMBIENT	—	95
NO. FANS/HP EACH	—	4/
FLA/COND. FANS	NO./FLA	4/6
UNIT TOTAL EER	—	10.16
REFRIGERANT	—	R-410A
COMPRESSORS	RLA/LRA	—
STEPS OF CAPACITY	NO.	44
TOTAL POWER INPUT	KW/FLA	67.12
ELECTRICAL	V/ø/HZ	208/3ø
IPLV	KW/TON	15.96
WEIGHT	LBS.	2580
LOCATION	—	CHILLER PAD
MANUFACTURER	—	CARRIER
MODEL	—	30RAP060
NOTES	—	① THRU ⑥

- | NEW AIR HANDLING UNIT SCHEDULE | | | | | | | |
|--------------------------------------|----------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| MARK | AHU | AHU-1 | AHU-2 | AHU-3 | AHU-4 | AHU-5 & 6 | AHU-7 |
| SUPPLY AIR | CFM | 9440 | 1950 | 2060 | 2410 | 970 | 1790 |
| OUTSIDE AIR (MIN./MAX.) | CFM | 917/2170 | 150 | 149/650 | 387/950 | 80/413 | 150 |
| STATIC PRESSURE IN. H ₂ O | EXT./TOTAL | 0.7/ | 0.6/ | 0.6/ | 0.6/ | 0.6/ | 0.6/ |
| MAX. FAN SPEED | RPM | 1949 | 3060 | 3289 | 3201 | 2091 | 4144 |
| MOTOR | HP | 10.0 | 3.0 | 5.0 | 5.0 | 1.5 | 5.0 |
| FAN WHEEL TYPE | - | AIRFOIL | FORWARD | FORWARD | FORWARD | FORWARD | FORWARD |
| FILTER | - | 2"MERVB,4"MERV13 | 2"MERVB,4"MERV13 | 2"MERVB,4"MERV13 | 2"MERVB,4"MERV13 | 2"MERVB,4"MERV13 | 2"MERVB,4"MERV13 |
| ELECTRICAL | V/ø/HZ | 208/3ø | 208/3ø | 208/3ø | 208/3ø | 208/3ø | 208/3ø |
| LOCATION | - | MECH. RM. | MECH. RM. | MECH. RM. | MECH. RM. | MECH. RM. | MECH. RM. |
| MANUFACTURER | - | CARRIER | CARRIER | CARRIER | CARRIER | CARRIER | CARRIER |
| MODEL | - | 39M SIZE21 | 39M SIZE06 | 39M SIZE06 | 39M SIZE06 | 39M SIZE06 | 39M SIZE06 |
| AREA SERVED | - | GYM | OFFICE | TRAINING | PRE SCHOOL | MULTI-PURPOSE | CORR |
| COOLING | | | | | | | |
| TOTAL CAPACITY | BTUH | 359,843 | 56,305 | 132,043 | 120,470 | 57,935 | 48,350 |
| SENSIBLE CAPACITY | BTUH | 245,530 | 44,460 | 71,632 | 72,470 | 32,850 | 39,460 |
| COOLING COIL | ROWS/FINS | 6/11 | 6/8 | 8/11 | 6/8 | 8/8 | 6/8 |
| COOLING COIL MAX. FACE VEL. | FPM | 450 | 450 | 450 | 450 | 450 | 450 |
| COOLING COIL MAX. PRES. DROP | IN. H ₂ O | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| ENTERING AIR TEMP. (DB/WB) | °/°F | 79.6/67.2 | 76.5/64.1 | 81.3/68.8 | 82.9/70.2 | 83.5/70.6 | 76.7/64.3 |
| LEAVING AIR TEMP. (DB/WB) | °/°F | 51.6/51.4 | 53.5/52.9 | 49.5/49.5 | 53.4/53.1 | 51.5/51.4 | 53.2/52.6 |
| CHILLED WATER FLOW | GPM | 85.4 | 12.4 | 22.8 | 24.7 | 11.1 | 11.8 |
| CHILLED WATER TEMP. (ENT/LVG) | °/°F | 54/44 | 54/44 | 54/44 | 54/44 | 54/44 | 54/44 |
| MAX. WATER PRESSURE DROP | FT. H ₂ O | 10 | 10 | 10 | 10 | 10 | 10 |
| HEATING | | | | | | | |
| TOTAL CAPACITY | KW/STEPS | 53.0/SCR | 5.0/SCR | 13/SCR | 18/SCR | 8.0/SCR | 8.0/SCR |
| WEIGHT | LBS | 2992 LBS | 1456 LBS | 1490 LBS | 1497 LBS | 1203 LBS | 1448 LBS |
| NOTES | - | (2)(3)(4)(5)(6) | (1)(3)(4)(5)(6) | (1)(3)(4)(5)(6) | (1)(3)(4)(5)(6) | (1)(3)(4)(5)(6) | (1)(3)(4)(5)(6) |

- PER ASHRAE STANDARD
62.1-2010

$$\frac{AzRa + PzRp}{Ez} = Voz$$

AREA—SERVED	OCCUPANCY CATEGORY	DEFAULT OCCUPANT DENSITY	NET AREA	AREA OUTDOOR AIR RATE	CODE REQ'D BASED ON FLOOR AREA		NUMBER PEOPLE	PEOPLE OUTDOOR AIR RATE	CODE REQ'D OA BASED ON PEOPLE	CODE REQ'D OA TOTAL VBz	ZONE AIR DISTRIBUTION EFFECTIVENESS	TOTAL OA REQUIRED BY CODE	
		Az	Ra		Pz	Rp	AzRa+PzRp	Ez	Voz				
		P/1000 SF	SF	CFM/S.F.	CFM	PERSON(S)	CFM/PERS	CFM	CFM		CFM		
GYM	HEALTH CLUB	COUNT	12,224	0.06	733	+	50	20	1000	1733	/	0.8	= 2167
OFF/SNACK	OFFICE	COUNT	590	0.06	36	+	10	5	50	86	/	0.8	= 108
MULTI—PURPOSE	CONFERENCE	50	2100	0.06	126	+	105	5	525	651	/	0.8	= 815
PRE—SCHOOL	DAYCARE	25	1700	0.18	309	+	43	10	430	739	/	0.8	= 923
TRAINING	HEALTH CLUB	10	1975	0.06	119	+	20	20	400	519	/	0.8	= 650
CORRIDOR AREA	CORRIDOR	—	1585	0.06	95	+	—	—	—	95	/	0.8	= 119
											TOTAL REQUIRED	=	4782
											TOTAL PROVIDED	=	4896

MARK	TYPE	MATERIAL	FINISH	ACCESSORIES	MANUFACTURER AND MODEL	REMARKS
CD	CEILING DIFFUSER	ALUMINUM	BAK. WHT. ENAMEL	OBD	PRICE AMD	-
SRC	SUPPLY REGISTER	ALUMINUM	BAK. WHT. ENAMEL	OBD	PRICE 620FS	-
ERC	EXHAUST REGISTER	ALUMINUM	BAK. WHT. ENAMEL	OBD	PRICE 630FL	-
RGC	RETURN GRILLE	ALUMINUM	BAK. WHT. ENAMEL	-	PRICE 630FL	-
RRC	RETURN REGISTER	ALUMINUM	BAK. WHT. ENAMEL	OBD	PRICE 630FL	-
TGC	TRANSFER GRILLE	ALUMINUM	BAK. WHT. ENAMEL	-	PRICE 630FL	-

TAG	—	(E)EF-1	(E)EF-2,3	(E)EF-4	(E)EF-5	(E)EF-6	(E)EF-7
SERVICE	—	TOILETS	TOILETS	TOILETS	TOILETS	ELECT. RM.	SNACK BAR
AIR QUANTITY	CFM	950	100	75	150	250	200
EXT. STATIC PRESS.	IN. H ₂ O	0.375	0.375	0.375	0.375	0.250	0.375
FAN TYPE	—	PRV	CEILING	CEILING	CEILING	PRV	CEILING
DRIVE	—	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
SONES	—	7.7	2.7	2.7	2.5	5.5	4.4
MOTOR	H.P./WATTS	1/8	80W	80W	129W	1/30	83W
FAN SPEED	RPM	860	950	950	1050	1300	1000
POWER	V/ø	120/10ø	120/10ø	120/1ø	120/1ø	120/1ø	120/1ø
CONTROL	—	W/EJRTU-1	LIGHTS	LIGHTS	LIGHTS	T-STAT	TWIST TIMER
LOCATION	—	2, 3	TOILETS	TOILETS	TOILETS	ELECT. RM.	SNACK BAR
MANUFACTURER	—	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL	—	G-150-C	SP-B110	SP-B110	SP-B150	G080-G	SP-A250
NOTES	⑧	①	①	①	①	① ②	①

- | | | | | |
|--------------------|----------------------|-------------|-------------|--|
| TAG | — | NEW EF-1 | NEW EF-2 | |
| SERVICE | — | REST ROOM | REST ROOM | |
| AIR QUANTITY | CFM | 400 | 200 | |
| EXT. STATIC PRESS. | IN. H ₂ O | 0.6 | 0.6 | |
| FAN TYPE | — | CENTRIFUGAL | CENTRIFUGAL | |
| DRIVE | — | DIRECT | DIRECT | |
| SONES | — | 10.4 | 7.8 | |
| MOTOR | H.P./WATTS | 1/6 | 1/10 | |
| FAN SPEED | RPM | 1531 | 1579 | |
| POWER | V/ø | 120/1ø | 120/1ø | |
| CONTROL | — | W/BAS | W/BAS | |
| LOCATION | — | ROOF | ROOF | |
| MANUFACTURER | — | GREENHECK | GREENHECK | |
| MODEL | — | G-095-VG | G-080-VG | |
| NOTES/ACCESSORIES | (#) | (1) | (1) | |

- | | | |
|-------------------------------------|----------------------|--------------------------|
| MARK | — | P-1 & P-2 |
| SERVICE | — | CHILLED WATER |
| PUMP TYPE | — | BASE MOUNTED END SUCTION |
| WATER FLOW | G.P.M. | 268 |
| TOTAL DYNAMIC HEAD | FT. H ₂ O | 85 |
| MOTOR | H.P. | 10 |
| SPEED (IMPELLER) | R.P.M. | 1750 |
| HEAD ALLOWANCE
FOR CONTROL VALVE | FT. H ₂ O | 15 |
| ELECTRICAL | V/ø/Hz | 208/3ø |
| MOUNTING LOCATION | — | CHILLER PAD |
| MANUFACTURER | — | BELL & GOSSETT |
| MODEL NUMBER | — | 2.58B |
| NOTES | ⑧ | ① ② ③ ④ ⑤ |

- | | | |
|--------------------------|--------|---------------|
| MARK | — | ET-1 |
| MANUFACTURER | — | AMTROL |
| MODEL NUMBER | — | 35-LBC |
| TANK VOLUME | GALS. | 10 |
| ACCEPT. VOLUME | GALS. | 10 |
| PIPE CONNECTION | INCHES | 1" |
| SHIPPING WEIGHT | LBS. | 67 |
| CHARGE PRESSURE | PSIG | . |
| MIN/MAX OPERATING TEMP. | °F | 40/70 |
| MIN/MAX OPERATING PRESS. | PSIG | 70/125 |
| MAX WORKING PRESSURE | PSI | 125 |
| SYSTEM TYPE | — | CHILLED WATER |
| MOUNTING | — | FLOOR |
| LOCATION | — | CHILLER YARD |
| NOTES | (#) | |

CHILLER PLANT:

THE CHILLER PLANT WILL BE INDEXED FOR OPERATION ANYTIME A CHILLED WATER PUMP IS IN OPERATION AND THE OUTSIDE AIR TEMPERATURE IS ABOVE .55°, ADJUSTABLE.

WHEN THE CHILLER STARTS TO RUN, THE LEAD CHILLER'S ISOLATION VALVE WILL BE OPENED AND THE LEAD CHILLED WATER PUMP WILL BE ENERGIZED AND ITS VFD SET TO RUN TO MAINTAIN THE FLOW REQUIRED FOR ONE CHILLER. UPON PROOF OF PUMP OPERATION VIA CURRENT SWITCH, THE LEAD CHILLER WILL BE ENABLED FOR OPERATION.

THE LAG CHILLER WILL BE ENABLE IF THE CAMPUS SUPPLY WATER TEMPERATURE EXCEED 47°, ADJUSTABLE, FOR 30 MINUTES. THE LEAD PUMP'S VFD WILL BE SET TO RUN TO MAINTAIN THE FLOW REQUIRED FOR TWO CHILLERS.

THE TRAILING CAMPS WILL BE INDEXED FOR OPERATION ONCE THE WEEKLY BASIS MOTORIZED VALVE TO OPEN WHEN CHILLER MINIMUM FLOW ACHIEVED.

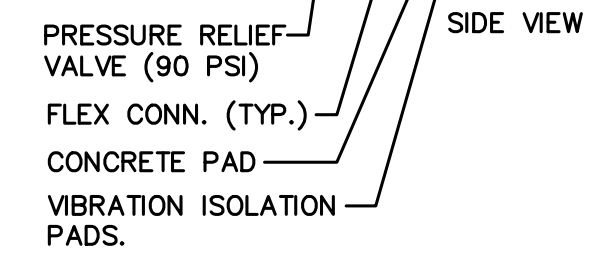
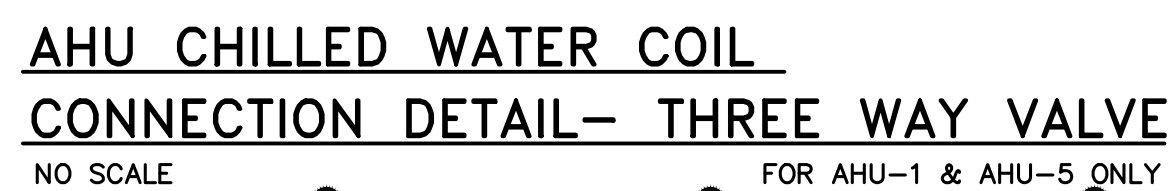
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EB-0006437

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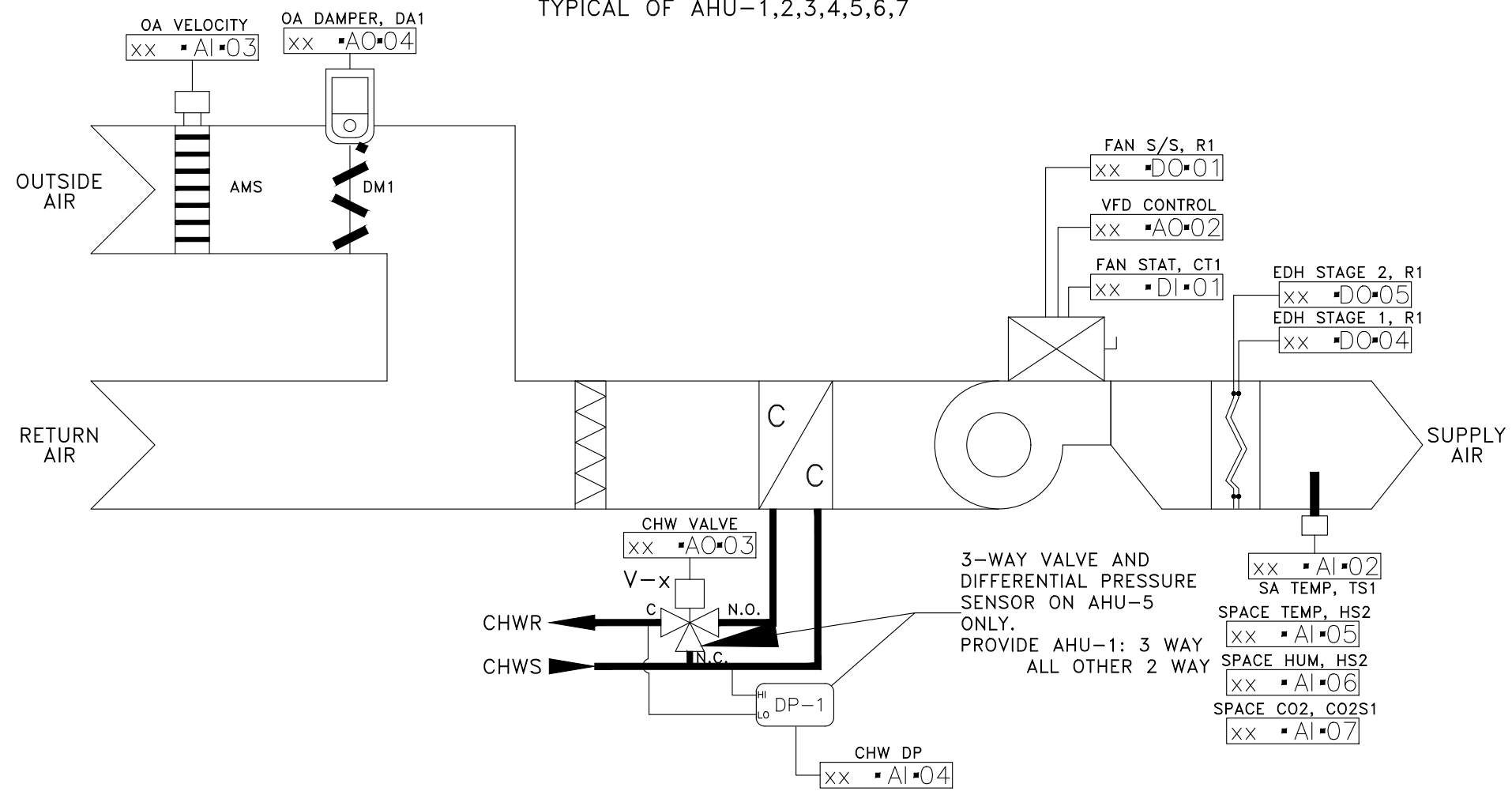
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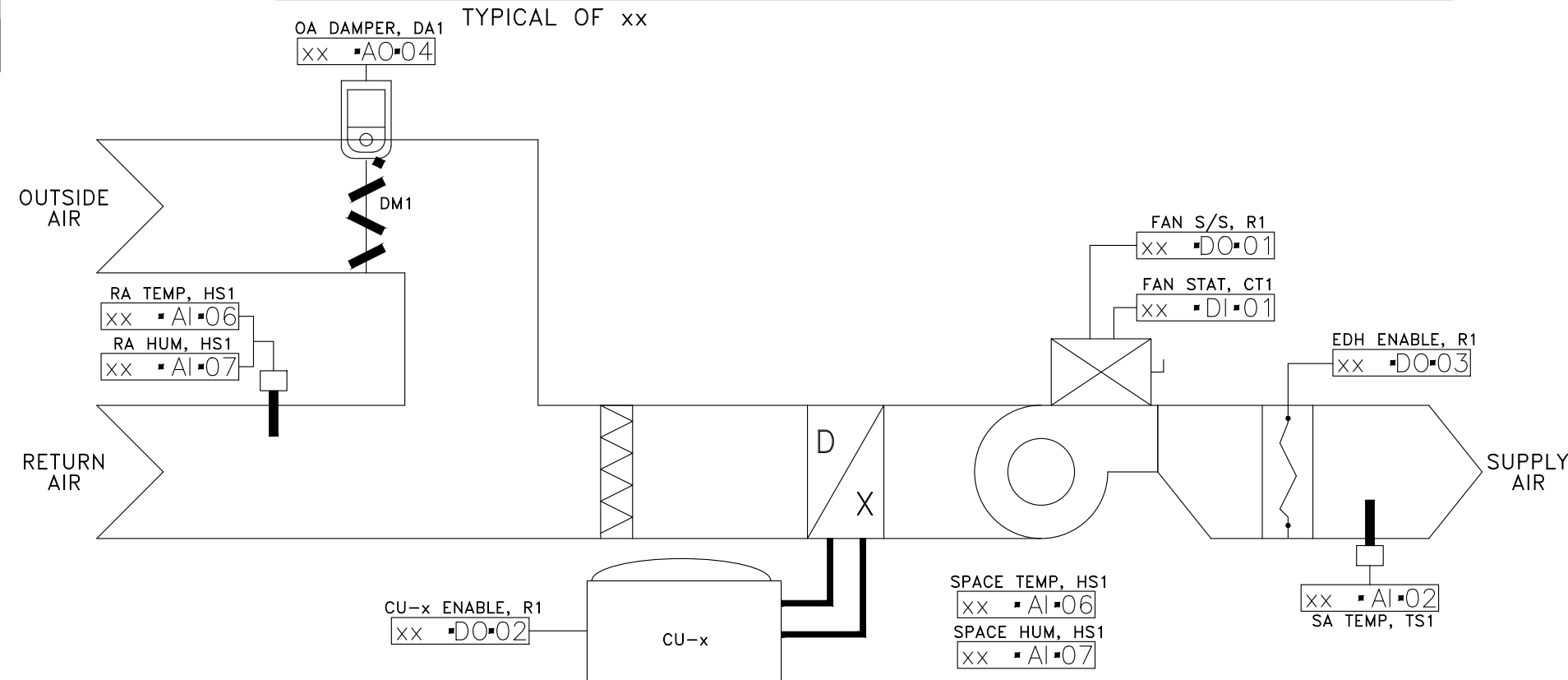
VAV AHU CONTROLS

TYPICAL OF AHU-1,2,3,4,5,6,7

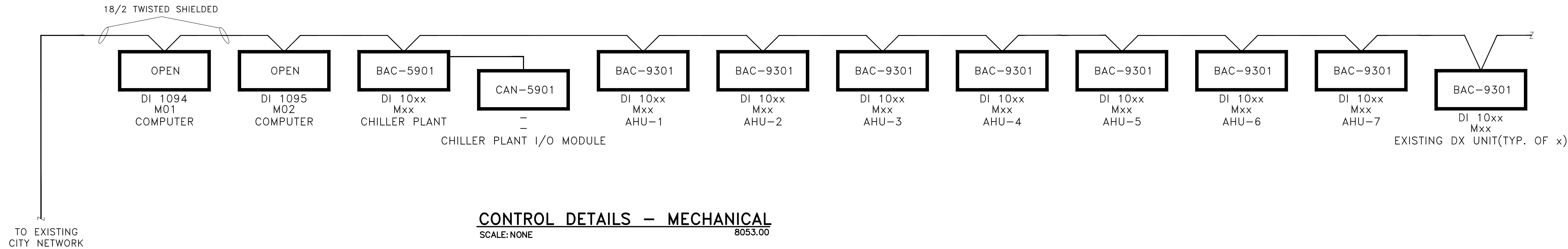
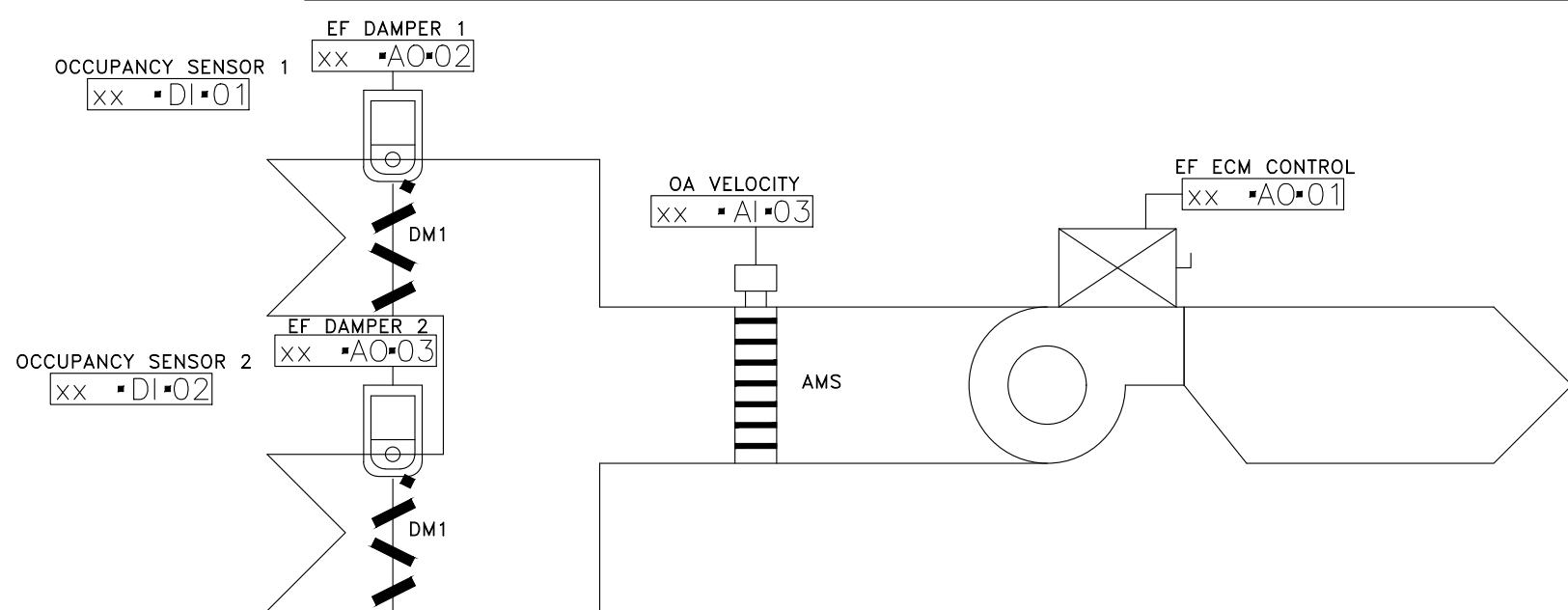


EXISTING DX RTU CONTROLS UPGRADE

TYPICAL OF xx



BATHROOM EXHAUST FAN CONTROLS



CONTROL DETAILS - MECHANICAL
SCALE: NONE 8053.00

NEW TAMPA RECREATION CENTER ADDITION TAMPA, FL 33647

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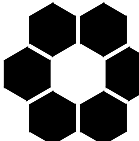
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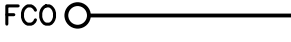





SHEET NUMBER
M 2.4



- ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE, AND LOCAL CODES. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FLORIDA PLUMBING CODE, 6TH EDITION.
- REVIEW PLANS OF ALL TRADES PRIOR TO BIDDING AND INSTALLATION TO INCLUDE ALL PLUMBING FOR COMPLETE SYSTEMS SHOWN ON THE PLANS AND AS REQUIRED.
- COORDINATE WITH OTHER TRADES TO PREVENT INTERFERENCE WITH HVAC DUCTS, STRUCTURAL ELECTRICAL LIGHTING, AND OTHER PIPING IN THE CEILING SPACE. VENT PIPING AND WATER PIPING SHALL BE HELD EITHER ABOVE OR BELOW HVAC DUCTWORK AS COORDINATED WITH THE HVAC CONTRACTOR.
- ALL CHANGES SHALL BE APPROVED BY THE ARCHITECT.
- COORDINATE WITH ARCHITECTURAL DRAWINGS BEFORE ROUGHING-IN PLUMBING FIXTURES AND EQUIPMENT SUPPLIES.
- THE PLUMBING SUBCONTRACTOR SHALL FURNISH AND INSTALL ALL PLUMBING FIXTURES, UNLESS NOTED OTHERWISE.
- THE PLUMBING SUBCONTRACTOR SHALL INSTALL AND MAKE ALL PLUMBING CONNECTIONS TO OWNER FURNISHED EQUIPMENT.
- VERIFY MOUNTING HEIGHT AND WATER CONNECTION SIZES TO ALL PLUMBING FIXTURES PRIOR TO ROUGH-IN. FURNISH CUT-OUT TEMPLATES, FOR PLUMBING FIXTURES TO BE INSTALLED IN MILLWORK, TO THE GENERAL CONTRACTOR.
- MAKE PROPER HOT AND COLD WATER, WASTE AND VENT PIPING CONNECTIONS TO ALL FIXTURES AND EQUIPMENT EVEN THOUGH ALL FITTINGS AND CONNECTIONS ARE NOT SHOWN.
- VERIFY LOCATION OF EXISTING WATER SERVICE AND THE LOCATION/INVERTS OF SANITARY PIPING PRIOR TO INSTALLATION.
- THIS CONTRACTOR TO DO ALL CUTTING AND PATCHING REQUIRED TO INSTALL ANY PORTION OF THIS WORK. PATCH WITH NEW MATERIALS OF THE SAME TYPE THAT WAS REMOVED. REFINISH PATCHED SURFACE TO MATCH EXISTING ADJACENT SURFACES.
- ALL PLUMBING VENTS IN EXTERIOR WALLS SHALL BE OFFSET A MINIMUM OF 3'-0" BEFORE ROOF PENETRATION.
- PROVIDE TRAP PRIMERS FOR FLOOR DRAINS, FROM THE NEAREST LAVATORY, AS SHOWN ON THE PLAN AND AS REQUIRED BY LOCAL CODE. PRIMERS SHALL BE LOCATED IN A SERVICEABLE LOCATION AND INSTALLED PER MANUFACTURERS INSTALLATION INSTRUCTIONS.
- INSTALL WATER HAMMER ARRESTERS WHERE WATER PRESSURES ARE EXCESSIVE OR WHERE REQUIRED TO ELIMINATE WATER HAMMER OR WHEN DEEMED NECESSARY BY LOCAL AUTHORITIES. LOCATE AND SIZE AS RECOMMENDED BY THE AMERICAN SOCIETY OF PLUMBING ENGINEERS.
- ALL WORK ASSOCIATED WITH THESE PLANS SHALL NOT PASS THRU OR ABOVE ANY ROOM DESIGNATED AS AN ELECTRICAL ROOM.
- IT IS IN THE INTENT OF THESE DRAWINGS TO COVER ALL WORK AND MATERIAL FOR A FIRST CLASS INSTALLATION. ANY EQUIPMENT, PLUMBING FIXTURE, TRIM HARDWARE AND/OR DEVICES USUALLY UTILIZED IN THE CLASS OF WORK, THOUGH NOT SPECIFICALLY MENTIONED OR SHOWN ON THESE DRAWINGS, BUT WHICH MAY BE NECESSARY FOR THE SATISFACTORY COMPLETION OF THE WORK (AS DETERMINED BY THE ARCHITECT) SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AS PART OF HIS TOTAL WORK.
- ALL WORK, BOTH MATERIAL AND INSTALLATION, SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER.

1. DOMESTIC HOT AND COLD WATER PIPING TYPE "L" COPPER WITH LEAD FREE SOLDER ABOVE GROUND.
2. SANITARY WASTE AND VENT PIPING SHALL BE DWV SCHEDULE 40 PVC ABOVE AND BELOW GRADE.
3. INSULATION SHALL BE FLEXIBLE UNICELLULAR-SELF-SEAL ARMAFLEX AP 1½" THICK FOR HOT WATER PIPING UP TO 1½" SIZE-PROVIDE SHEET METAL SADDLES AT EACH HANGER.



PLUMBING LEGEND		
DESCRIPTION	ABBREV.	SYMBOL
SANITARY PIPING	SAN	
VENT PIPING	V	
COLD WATER PIPING	CW	
HOT WATER PIPING	HW	
TRAP PRIMER PIPING	TPP	
STORM WATER PIPING	ST	
OVERFLOW STORM WATER PIPING	OST	
EXISTING PIPING TO REMAIN		
EXISTING PIPING TO BE REMOVED		
GATE VALVE	GV	
CHECK VALVE	CV	
UNION		
TRAP PRIMER	TP	
CLEAN OUT	CO	
CLEAN OUT TO GRADE	COTG	
WALL CLEAN OUT	WCO	
FLOOR CLEAN OUT	FCO	
FLOOR DRAIN	FD	
TYPICAL	(TYP)	
NEW CONNECTION TO EXISTING		
WALL HYDRANT	WH	
VENT THRU ROOF	VTR	
NEW	(N)	
EXISTING	(E)	
BALANCING VALVE	BV	
HOT WATER RETURN PIPING	HWR	

WC: WATER CLOSET, BARRIER FREE - AMERICAN STANDARD MADERA NO. 3043.102 FLOOR MOUNTED, 17" HIGH, VITREOUS CHINA, ELONGATED, 1-1/2" TOP SPUD. ZURN ELECTRIC SENIOR SFLUSH VALVE NO. Z-ZERK-CPM RETRO FIT KIT Q242. BATTERY POWERED. (POSITION OF HANDICAP BOX CAN BE RAISED OR LOWERED 1" IF IN CONFLICT WITH HANDICAP GRAB BARS). AMERICAN STANDARD TOILET SEAT NO. 589-11055-020 OPEN FRONT SEAT LESS COVER. STAINLESS STEEL SELF SUSTAINING CHECK HINGE. 1" CW, 2" VENT, 4" SAN.

LAV: LAVATORY, BARRIER FREE - AMERICAN STANDARD LUCERNE NO. 0356.421, 20x18" VITREOUS CHINA, WALL HUNG, 4" CENTERS. PROVIDE FLOOR CARRIER WITH CONCEALED ARMS. FAUCET - EQUAL TO HYDROTEK 500EAM SERIES ELONGATED LAVATORY FAUCET MODEL H-5000 EM-LF WITH FRONT SEAT. SENSOR OPERATED, HARDWARE AC, 120V, 0.5 GPM FLOW RESTRICTOR, GRID DRAIN ASSEMBLY. TOP OF FRONT RIM MOUNTED 3/4" FROM FINISHED FLOOR. PROVIDE STOPS, SUPPLIES, TRAP, ETC., TO MAKE A COMPLETE INSTALLATION. INSULATE TRAP AND SUPPLIES WITH TRUEBORG NO. 103 LAV DRAIN. 1/2" CW, 1/2" HW, 2" VENT, 2" SAN.

WCO: WALL CLEAN-OUT - ZURN, #Z-1441, SMOOTH STAINLESS STEEL ACCESS COVER, DURA-COATED CAST IRON BODY. MATCH TO PIPE SIZE.

FCO: FLOOR CLEANOUT - ZURN NO. Z-1444, POLISHED BRONZE ACCESS COVER, DURA-COATED CAST IRON BODY. MATCH TO PIPE SIZE.

FD: FLOOR DRAIN - ZURN Z-415-P WITH "TYPE B" ADJUSTABLE STRAINER TOP WITH SQUARE HEELPROOF OPENINGS AND SECURED GRATE. DURA COATED CAST IRON BODY WITH TRAP PRIMER CONNECTION. SIZE TO PIPE SIZE.

TP: TRAP PRIMER - ZURN Z-1022 SANI-GARD. CONNECT TO CW W/VALVE. EXTEND TPP TO FLOOR DRAIN AS REQUIRED. 1/2" CW

RD-1: ROOF DRAIN - ZURN Z-187 OBLIQUE SCUPPER. DURA-COATED CAST IRON BODY WITH REVERSIBLE BACK OR BOTTOM OUTLET. OBLIQUE ALUMINUM GRATE WITH 90° COMBINATION FRAME AND MEMBRANE FLASHING CLAMP. PROVIDE EXTENSION AS REQUIRED. SIZE TO PIPE SIZE.

RD-2: ROOF DRAIN - ZURN Z-103 15" DIAMETER DEEP SUMP DUAL OUTLET ROOF DRAIN W/ LOW SILHOUETTE DOME. DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD, OVERFLOW PIPE AND LOW SILHOUETTE CAST IRON DOME. PROVIDE EXTENSION AS REQUIRED. SIZE TO PIPE SIZE.

ORD-1: OVERFLOW ROOF DRAIN - ZURN Z-122-HD 12" DECK RECEPTOR DRAIN, DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/DECK RECEPTOR FRAME AND INTERNAL HIGH DOME STRAINER. PROVIDE EXTENSION AS REQUIRED. SIZE TO PIPE SIZE.

WH: WALL HYDRANT, INSIDE OR MODERATE CLIMATE - ZURN NO. Z-1335, ENCASED FLUSH WALL HYDRANT, NICKEL BRONZE BOX AND HINGED COVER WITH OPERATING KEY LOCK AND "WATER" CAST ON COVER. 3/4" CW

EWH: ELECTRIC WATER HEATER - RHEEM, MODEL ELDS30, 30 GALLON, 4.5K NON-SIMULTANEOUS DUAL ELEMENTS, 208 VOLT, SINGLE PHASE. HEAT TRAPS, EXPANSION TANK AND CODE APPROVED DRAIN PAN. SEE DETAILS. 3/4" CW, 3/4" T&P, 1" DRAIN PAN DRAIN PIPING

RP: CIRCULATOR PUMP - BELL & GOSSETT NO. 102210 W/HV IB BOOSTER PUMP. CAST BODY, 1/6 HP, 115 V. 1.9 F.L. AMPS, PROVIDE AQUASTAT. 7-DAY TIMECLOCK INTERMATIC NO. ETB0150, 30-AMPS SPST ELECTRONIC ASTRONOMIC TIME SWITCH, CLOCK VOLTAGE 120-VOLT - 277-VOLT NEMA 1. MOUNT PUMP IN LINE WITH SUPPORTS TO STRUCTURE. PROVIDE VIBRATION ISOLATION.

TMV: PROVIDE ASSE 1070 APPROVED WATTS MODEL LFMMV. SET TO 110". INSTALL INSIDE LAVATORY.

EWC: ELECTRIC WATER COOLER-TWO-LEVEL - ELKAY VRCLBWSK, VANDAL RESISTANT EZH2O HOT/COLD FILLING STATION, WALL MOUNT. STAINLESS STEEL BASINS, VANDAL RESISTANT BUBBLER, 115V, 8.0 GPH, 370 WATTS, 5.0 FLA. MOUNT ONE AT 40-3/4" ORIFICE HEIGHT AND ONE AT 35-3/8" ORIFICE HEIGHT. CONNECT WATER SUPPLY AND WASTE LINES FROM FOUNTAIN UNIT TO COOLER UNIT. PROVIDE FLOOR CARRIERS, STOP, SUPPLY, TRAP, ETC., TO MAKE A COMPLETE INSTALLATION. 1/2" CW, 2" VENT, 2" SAN.

DNZ: DOWNSPOUT NOZZLE - ZURN MODEL Z199 OR EQUIVALENT. SIZE TO PIPE SIZE.



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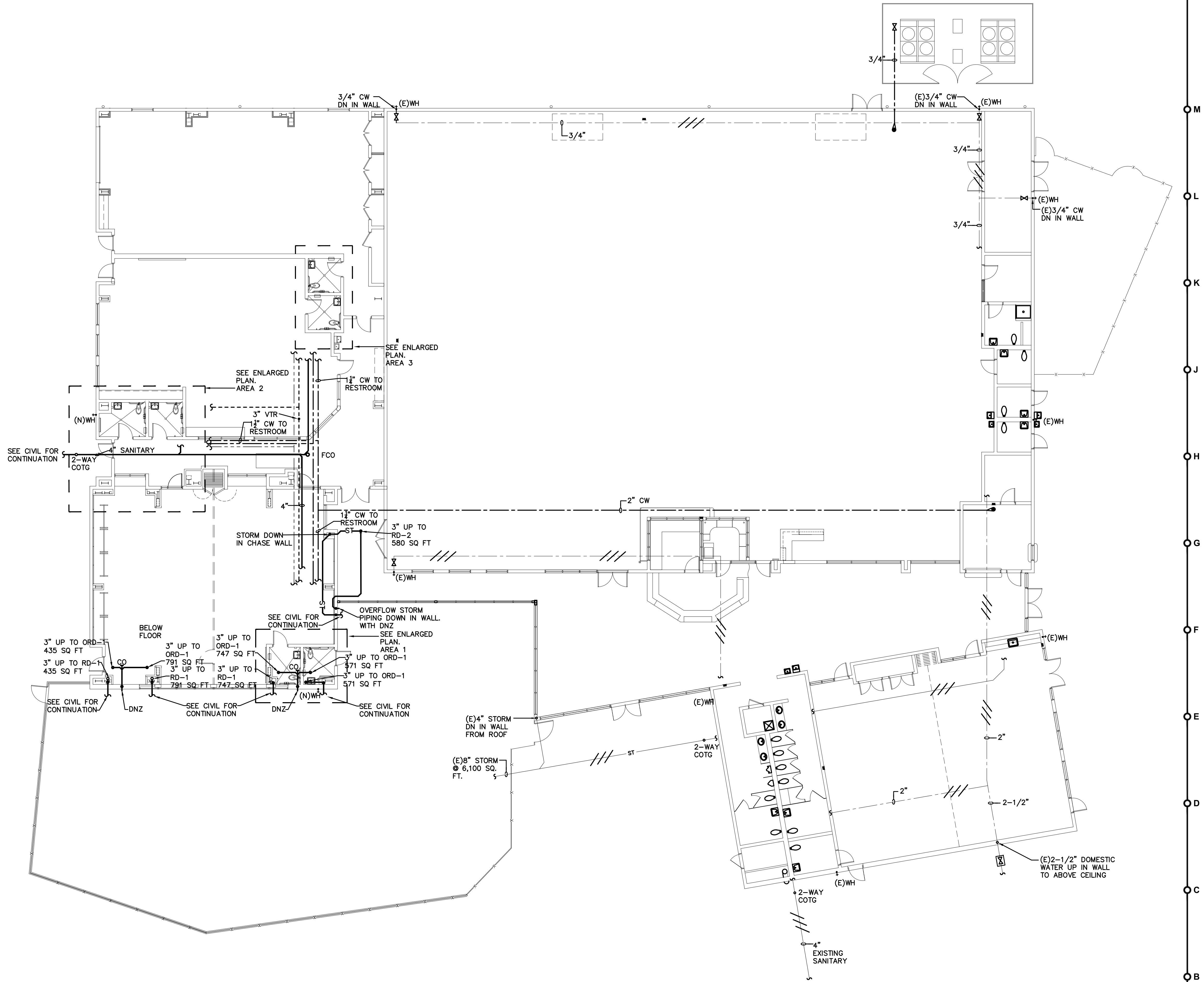
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SHANE HAMILTON, P.E.
#75420

FLOOR PLAN - PLUMBING

SCALE: 3/32"=1'-0"

8053.00



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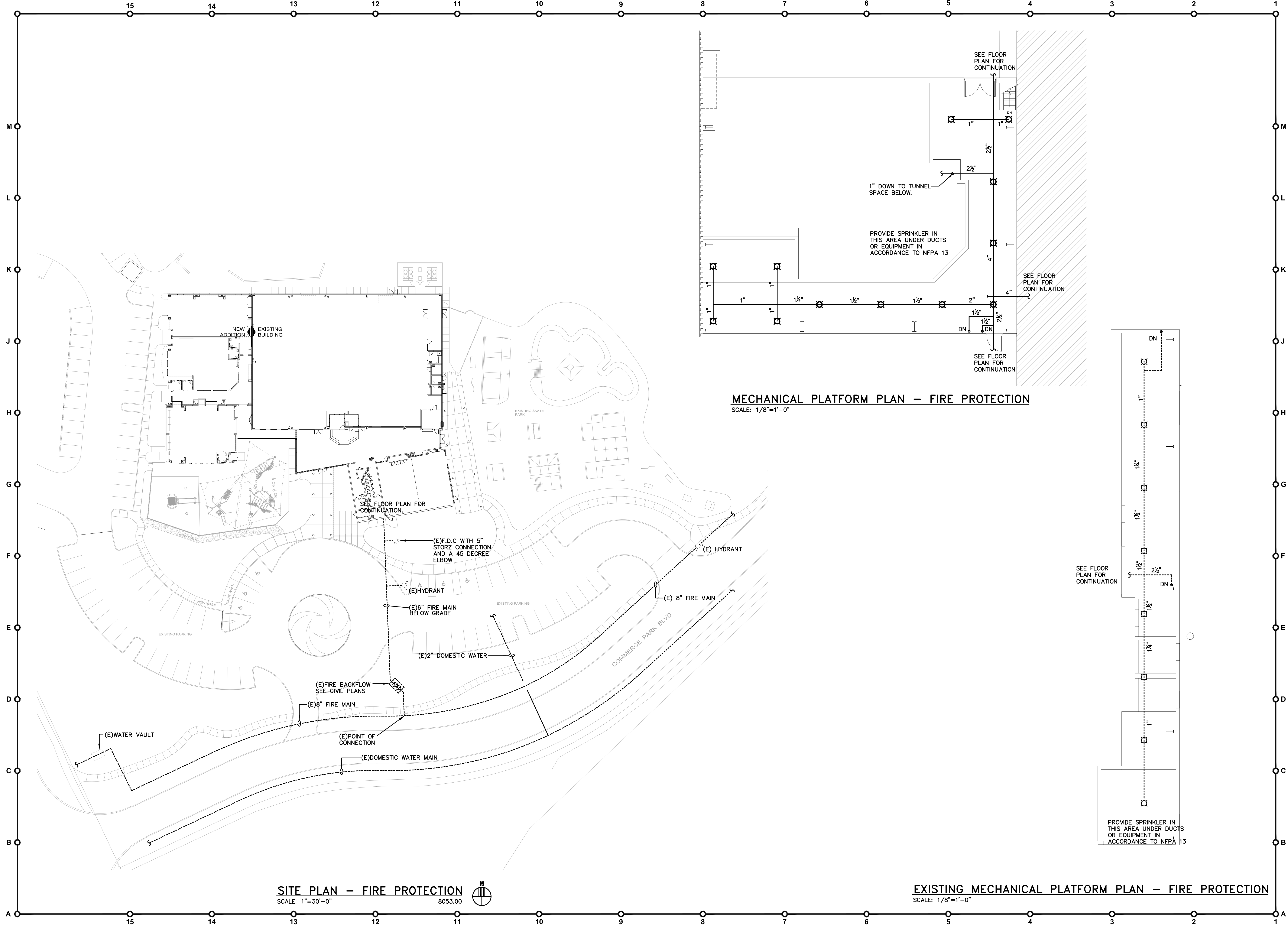
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I CERTIFY TO THE BEST OF MY KNOWLEDGE THAT I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA, AND THAT I AM THE DESIGNER OF THIS WORK. I HAVE NOT BEEN RECALLED BY THE FLORIDA BOARD OF PROFESSIONAL ENGINEERS.

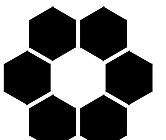
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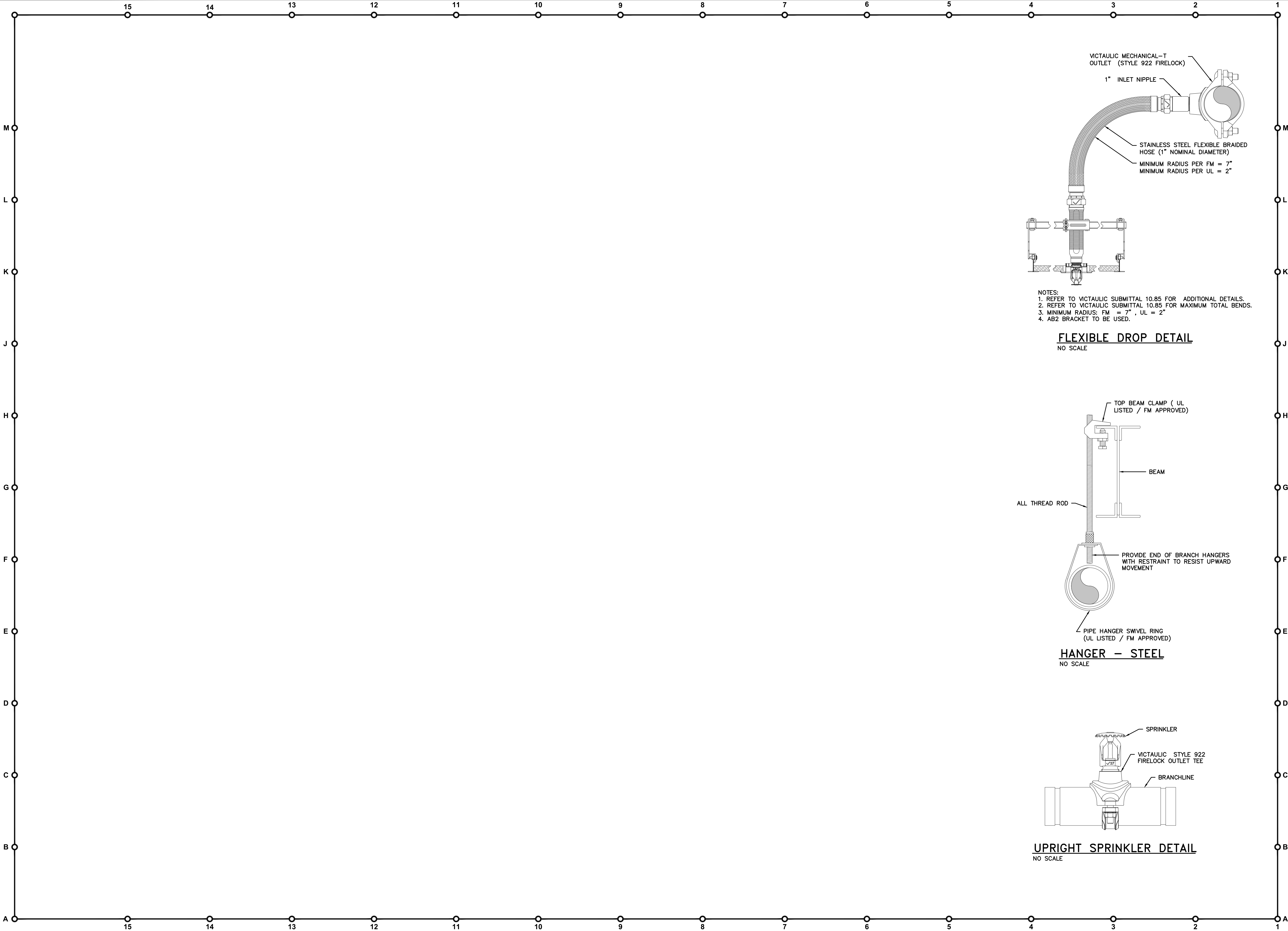
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







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[illegible]

		REMARKS
		MOUNT AT 18" AFF, UNO
		MOUNT AT 18" AFF, UNO
		MOUNT AT 18" AFF, UNO
 		
		
		MOUNT AT 18" AFF, UNO
		MOUNTING HEIGHT PER ADA
		
		AS NOTED ON PLANS
		MOUNT AT 48" AFF, UNO
		MOUNT AT 48" AFF, UNO
		SEE PLANS

TYPICAL BRANCH DEVICE INFORMATION

The diagram illustrates the typical branch device information. It shows a central point where three lines converge: one from the left labeled 'PANELBOARD', one from the bottom labeled 'CIRCUIT NUMBER', and one from the right labeled 'TYPICAL BRANCH DEVICE'. From the 'PANELBOARD' line, two arrows point to '1LB-3' labels, which then point to a curved line representing a branch. This curved line is labeled '48\"

1. CIRCUIT NUMBERS ARE FOR REFERENCE ONLY AND INDICATE THE DEVICES REQUIRED TO BE CONNECTED TO DESIGNATED CIRCUITS.
2. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING AND PROVIDING THE ACTUAL NUMBER OF CONDUCTORS REQUIRED FOR ALL BRANCH CIRCUIT WIRING TO SERVE THE INTENDED FUNCTION.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY BALANCING LOADS ON ALL THREE PHASES.
4. ALL BRANCH CIRCUITS SHALL HAVE SEPARATE GROUND WIRE.
5. ALL BRANCH CIRCUITS SHALL HAVE SEPARATE NEUTRAL WIRE.
6. ALL BRANCH CIRCUITS SHALL BE SIZED PER OVERCURRENT PROTECTION RATING AND NEC REQUIREMENTS (INCLUDING NEC CONDUCTOR AMPACITY TABLES, ARTICLE 334.80, AND 338.10(B)(4)).
7. PROVIDE ARC-FAULT CIRCUIT PROTECTION PER NEC ARTICLE 210.12.

FLORIDA STATE FIRE MARSHAL RULE (EFFECTIVE DATE - DECEMBER 31, 2017):
 2017 RULE 69A-3.012, STANDARDS OF THE NATIONAL FIRE PROTECTION
 ASSOCIATION AND OTHER STANDARDS ADOPTED
 2017 6TH EDITION - FLORIDA FIRE PREVENTION CODE
 NFPA 1, 2015 EDITION, THE FIRE CODE
 SECTIONS 633.206(1)(a) AND (b), F.S.:
 (a) NFPA 2, 2011 EDITION, HYDROGEN TECHNOLOGIES CODE
 (b) NFPA 3, 2015 EDITION, RECOMMENDED PRACTICE FOR COMMISSIONING OF
 FIRE PROTECTION AND LIFE SAFETY SYSTEMS
 NFPA 70, 2014 EDITION, NATIONAL ELECTRICAL CODE (NEC)
 NFPA 72, 2013 EDITION, NATIONAL FIRE ALARM AND SIGNALING CODE
 NFPA 75, 2013 EDITION, STANDARD FOR THE FIRE PROTECTION OF
 INFORMATION TECHNOLOGY EQUIPMENT
 NFPA 70B, 2016 EDITION, RECOMMENDED PRACTICE FOR ELECTRICAL EQUIPMENT
 MAINTENANCE
 NFPA 70E, 2018 EDITION, STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE
 NFPA 90A, 2015 EDITION, STANDARD FOR THE INSTALLATION OF AIR-
 CONDITIONING AND VENTILATING SYSTEMS
 NFPA 101, 2015 EDITION, LIFE SAFETY CODE
 NFPA 101A, 2013 EDITION, GUIDE ON ALTERNATIVE APPROACHES TO LIFE SAFETY
 NFPA 110, 2013 EDITION, STANDARD FOR EMERGENCY & STANDBY POWER SYSTEMS
 NFPA CHAPTER 98A-80, THE FLORIDA FIRE PREVENTION CODE
 FBC 2017, 6TH EDITION, CHAPTER 35, FLORIDA BUILDING CODE-BUILDING
 FBC 2017, 6TH EDITION, FLORIDA BUILDING CODE ENERGY CONSERVATION
 UL 467, 10TH EDITION, 2017, GROUNDING AND BONDING EQUIPMENT
 IEEE-C2, 2017 EDITION, NATIONAL ELECTRICAL SAFETY CODE (NESC)
 IEEE-142, 2007 EDITION, IEEE RECOMMENDED PRACTICE FOR GROUNDING OF
 INDUSTRIAL AND COMMERCIAL POWER SYSTEMS

A	AMPERE(S)	KAIC	1000 AMPERE INTERRUPTING CAPACITY
AC	ALTERNATING CURRENT		
ACT	ACOUSTICAL CEILING TILE	KCMIL	1000 CIRCULAR MIL(S)
ADA	AMERICANS WITH DISABILITIES ACT	KVA	KILOVOLT AMPERE(S)
AFCI	ARC-FAULT CIRCUIT INTERRUPTER	KW	KILOWATT(S)
AFF	ABOVE FINISHED FLOOR	LAN	LOCAL AREA NETWORK
AFG	ABOVE FINISHED GRADE	LED	LIGHT EMITTING DIODE
AHJ	AUTHORITY HAVING JURISDICTION	LTG	LIGHTING
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	LV	LOW VOLTAGE
		MC	MECHANICAL CONTRACTOR
AWG	AMERICAN WIRE GAUGE	MCA	MINIMUM CIRCUIT AMPACITY
BLDG	BUILDING	MCB	MAIN CIRCUIT BREAKER
BFG	BELOW FINISHED GRADE	MISC	MISCELLANEOUS
C	CONDUIT	MIN	MINIMUM
CB/CKT BKR	CIRCUIT BREAKER	MFR	MANUFACTURER
CL	CLOSET	MH	MOUNTING HEIGHT
CLG	CEILING	MTD	MOUNTED
CKT	CIRCUIT	N	NEUTRAL
CO	CONDUIT ONLY	(N)	NEW
CONC	CONCRETE	NEC	NATIONAL ELECTRIC CODE
COND	CONDUCTOR	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CONST	CONSTRUCTION		
CP	CONTROL PANEL	NL	NIGHT LIGHT
CT	CURRENT TRANSFORMER	NO	NORMALLY OPEN
CU	COPPER	NTS	NOT TO SCALE
DED	DEDICATED	P	POLE
DISC	DISCONNECT	PA	PUBLIC ADDRESS
DISH	DISHWASHER	PB	PULL BOX
DISP	DISPOSAL	PC	PLUMBING CONTRACTOR
DIV	DIVISION	PHØ	PHASE
DT	DUAL TECHNOLOGY (IR/US)	PNL	PANEL
DWG	DRAWING	PRI	PRIMARY
EA	EACH	PWR	POWER
EC	ELECTRICAL CONTRACTOR	QTY	QUANTITY
EF	EXHAUST FAN	REC/RECEPT	RECEPTACLE
EGC	EQUIPMENT GROUNDING CONDUCTOR	REF	REFRIGERATOR
		SEC	SECONDARY
ELEC	ELECTRIC	SPD	SURGE PROTECTION DEVICE
EM/EMER	EMERGENCY	SPEC	SPECIFICATION
EQUIPT	EQUIPMENT	SW	SWITCH
(ERL)	EXISTING RELOCATED	TEL	TELEPHONE
(ETR)	EXISTING TO REMAIN	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
EXT	EXTERIOR		
FA	FIRE ALARM	TYP	TYPICAL
FBC	FLORIDA BUILDING CODE	UG	UNDERGROUND
FBO	FURNISHED BY OTHERS	UL	UNDERWRITER'S LABORATORIES
FHP	FRACTIONAL HORSEPOWER	UNO	UNLESS NOTED OTHERWISE
FLA	FULL LOAD AMPS	UON	UNLESS OTHERWISE NOTED
FLUOR	FLUORESCENT	UPS	UNINTERRUPTIBLE POWER SUPPLY
FT	FEET	US	ULTRASONIC
G/GND	GROUND	UV	ULTRAVIOLET
GC	GENERAL CONTRACTOR	V	VOLT(S)
GFI	GROUND FAULT INTERRUPTER	VA	VOLT(AMPERE)(S)
HOA	HAND-OFF-AUTO SELECTOR SWITCH	VFD	VARIABLE FREQUENCY DRIVE
HP	HORSEPOWER	W	WATT(S)
IR	INFRARED	WP	WEATHERPROOF
JB	JUNCTION BOX	WR	WEATHER RESISTANCE

1. THE GENERAL NOTES APPLY TO ALL DRAWINGS UNDER THIS CONTRACT. REFER TO INDIVIDUAL DRAWINGS FOR ADDITIONAL NOTES.
2. ALL ELECTRICAL WORK SHOWN SHALL BE PROVIDED AS NEW, UNLESS OTHERWISE NOTED.
3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWING IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. MAINTAIN HEADROOM AND SPACE CONDITIONS. BRANCH CIRCUIT NUMBERS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL DETERMINE THE CIRCUIT NUMBERS AND PROVIDE A SCHEDULE IN PANEL IDENTIFYING BRANCH CIRCUITS.
4. JUNCTION AND PULL BOXES SHALL GENERALLY BE LOCATED FOR FLUSH MOUNTING IN FINISHED SPACES. WHERE NECESSARY, CONDUITS SHALL BE REROUTED OR OTHER ARRANGEMENTS MADE FOR CONCEALMENT. PULL BOXES SHALL BE PROVIDED AS INDICATED AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE AND COORDINATE LOCATIONS WITH OTHER TRADES. COVERS OF JUNCTION AND PULL BOXES SHALL BE ACCESSIBLE. FOR EMPTY RACEWAY RUNS, PULL BOXES SHALL BE PROVIDED EVERY 100 FEET AND AS INDICATED OR NECESSARY.
5. BOXES SHALL BE SET SQUARE AND TRUE WITH BUILDING FINISH. WALL AND SWITCH OUTLETS SHALL BE ERECTED IN ADVANCE OF FURRING AND FIREPROOFING. BOXES SHALL BE SECURED TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS.
6. IN EXISTING BUILDINGS, ALL REQUIRED ACCESS DOORS SHALL BE FURNISHED AND INSTALLED UNDER THE ELECTRICAL SECTION. ALL ACCESS DOOR LOCATIONS SHALL BE FIELD COORDINATED WITH THE OWNER.
7. NO ELECTRICAL RACEWAYS OR CONDUCTORS SHALL BE INSTALLED WITHIN 3 INCHES OF STEAM OR HOT WATER PIPES, OR APPLIANCES, EXCEPT FOR CROSSING WHERE RACEWAYS SHALL BE AT LEAST 1 INCH FROM PIPE COVER.
8. SUFFICIENTLY LONG WIRE SLACK SHALL BE LEFT IN RUNS TO ALLOW FOR MAKING PROPER FINAL CONNECTIONS. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH #12 AWG STEEL DRAG WIRES.
9. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL HVAC EQUIPMENT. (AC UNITS, FANS, VAV BOXES, ETC).
10. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION OF ALL PLUMBING EQUIPMENT.
11. ALL WIRING SHALL BE ROUTED IN AN ORGANIZED AND NEATLY MANNER.
12. SUBMIT DIMENSIONED LAYOUTS OF ALL ELECTRIC EQUIPMENT WITH EQUIPMENT SUBMITTALS.
13. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL RACEWAYS RUNS WITH EXISTING CONDITIONS AND INCLUDE ALL PULLBOXES, OFFSETS, CUTTING, PATCHING, PAINTING TO MATCH EXISTING, SUPPORTS, ETC. AS REQUIRED.
14. THE ROUTING AND LOCATION OF CONDUIT RUNS ARE GENERALLY NOT DIMENSIONAL ON THE DRAWINGS BUT SHALL BE DETERMINED IN THE FIELD TO SUIT THE LOCATIONS OF EQUIPMENT, TO CONFORM TO STRUCTURAL AND ARCHITECTURAL FEATURES AND TO AVOID INTERFERENCES.
15. ALL CUTTING AND RESTORATION OF SLAB AND FLOOR SHALL BE IN ACCORDANCE WITH STRUCTURAL ENGINEER'S REQUIREMENTS AND AS APPROVED BY THE STRUCTURAL ENGINEER.
16. ELECTRICAL CONTRACTOR SHALL VERIFY ALL PENETRATIONS, POKE THRU'S, AND EXISTING CONDUIT LOCATIONS PRIOR TO MODIFICATION.
17. ALL SIGHT EXPOSED ELECTRICAL DEVICES SHALL BE LOCATED AS PER ARCHITECT'S DRAWINGS AND/OR DIRECTION.
18. WHERE CONDUIT OR JUNCTION BOXES ARE RUN IN SLAB IN EXISTING AREAS, THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, PATCHING, AND RESTORATION OF SLAB AND FLOOR.
19. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LIGHT FIXTURES, REMOTE BALLASTS AND ASSOCIATED WIRING, SUPPORTS, HARDWARE, AND ACCESSORIES AS REQUIRED.
20. SYMBOLS AND LEGENDS SHOWN ON THIS DRAWING ARE FOR ELECTRICAL DRAWINGS ONLY. SEE ARCHITECTURAL DRAWINGS AND TRADE DRAWINGS FOR RESPECTIVE SYMBOLS AND LEGENDS.
21. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL SLAB CUTS, FOUNDATION WALL PENETRATIONS, WALL OPENINGS, CORE DRILLING, ROOF PENETRATIONS, ETC. AND PATCHING AS REQUIRED TO PROVIDE ALL ELECTRICAL WORK. FOR FOUNDATION WALL PENETRATIONS PROVIDE 4"x4"x3/8" WELDED STEEL ANGLE BY THE CONTRACTOR AND APPROVED BY THE STRUCTURAL ENGINEER AND PROVIDE WATER PROOFING. ALL ROOF, TUNNEL AND FOUNDATION PENETRATIONS SHALL BE WATER PROOFED. COORDINATE WORK SO AS TO MAINTAIN ANY AND ALL WARRANTIES FOR ROOF SYSTEMS, FOUNDATIONS, ETC.
22. ALL TELEPHONE/DATA RACEWAYS SHALL BE PROVIDED WITH INSULATED END BUSHINGS.
23. SEPARATE RACEWAYS SHALL BE PROVIDED FOR CONDUCTORS OF NORMAL AND EMERGENCY CIRCUITS (IF APPLICABLE).
24. HORIZONTAL OR CROSS RUNS IN PARTITIONS OR WALLS ARE NOT PERMITTED.
25. THE ELECTRICAL CONTRACTOR SHALL NOT INSTALL MORE THAN THE NUMBER OF CIRCUITS SHOWN IN ANY HOMERUN BRANCH CIRCUIT WIRING.
26. CONTRACTOR TO PROVIDE FIRE PROOFING AT ALL PENETRATIONS OF RATED PARTITIONS, FLOORS, AND WHERE THE EXISTING FIRE PROOFING WAS REMOVED TO EXPOSE EXISTING STEEL FOR NEW HANGER INSTALLATION. REFER TO SPECIFICATION SECTION FIRE PROOFING.
27. LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS. AT OR NEAR DOORS, INSTALL SWITCH ON SIDE OPPOSITE HINGE (VERIFY FINAL DOOR HINGE LOCATION IN THE FIELD PRIOR TO SWITCH OUTLET INSTALLATION).
28. EXACT LOCATION OF LIGHTING FIXTURES SHALL BE IN ACCORDANCE WITH ARCHITECTURAL REFLECTED CEILING PLAN OR AS DIRECTED BY THE ARCHITECT.
29. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CEILING WORK WITH CEILING CONTRACTOR AND DETERMINE CEILING TYPE PRIOR TO THE PURCHASING AND INSTALLATION OF LIGHTING FIXTURES, SPEAKERS, SMOKE DETECTORS, EXIST LIGHTS, OR ANY OTHER CEILING MOUNTED ELECTRICAL ELEMENTS. THE ELECTRICAL CONTRACTOR SHALL ALSO COORDINATE ALL ELECTRICAL WORK WITH LOCATION OF DIFFUSERS AND SPRINKLERS AND OTHER MECHANICAL WORK.
30. EXACT LOCATION AND MOUNTING OF LIGHTING FIXTURES IN MECHANICAL AREAS SHALL BE COORDINATED WITH THE MECHANICAL TRADES TO AVOID CONFLICT WITH PIPING, DUCTS AND EQUIPMENT. COORDINATE ALIGNMENT WITH PROJECT ARCHITECT IN THE FIELD.
31. LOCATIONS OF OUTLETS AND SWITCHES IN FINISHED ROOMS SHALL BE VERIFIED WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISHES. IN CENTERING OUTLETS AND LOCATING BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS AND MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIMS, PANELING, SUSPENDED CEILINGS AND THE LIKE. CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT ANY ADDITIONAL EXPENSE TO THE OWNER.
32. ALL RACEWAYS, WIRING, AND ASSOCIATED ELECTRICAL EQUIPMENT SHALL BE ROUTED CONCEALED EXCEPT IN UNFINISHED AREAS.
33. ALL EQUIPMENT, MATERIALS, ETC. SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL. REFER TO SPECIFICATIONS FOR ADDITIONAL ACTION SUBMITTAL AND SHOP DRAWING REQUIREMENTS.
34. PRIOR TO CONSTRUCTION, COORDINATE WITH LOCAL A/HJ FOR THE UL CONDITIONAL LISTING REQUIREMENTS FOR ALL JUNCTIONS BOXES UTILIZED IN RATED WALLS AND CEILINGS.
35. WHERE CONFLICTS EXIST BETWEEN THE INFORMATION INCLUDED IN THESE DRAWINGS OR BETWEEN INFORMATION PROVIDED IN THESE DRAWINGS AND THE PROJECT SPECIFICATIONS OR WITHIN THE PROJECT SPECIFICATIONS, THE MORE STRINGENT AND/OR HIGHEST COST REQUIREMENTS SHALL APPLY. SHOULD THE CONTRACTOR REQUIRE FURTHER CLARIFICATION, AN RFI SHALL BE SUBMITTED FOR CLARIFICATION. WHERE CONFLICTS DO EXIST, THE PROJECT ENGINEER OF RECORD SHALL HAVE THE SOLE DISCRETION AND RIGHT TO PROVIDE INTERPRETATION OF INTENT OF THE CONTRACT DOCUMENTS AS REQUIRED AND THIS INTERPRETATION SHALL SERVE TO DIRECT THE CONTRACTOR IN ACCORDANCE WITH THE IMPLIED INTENT OF THE CONSTRUCTION DOCUMENTS WITHOUT ADDITIONAL COST TO THE PROJECT.
36. CONTRACTOR SHALL INCLUDE CONTINGENCY IN BID PRICE TO ALLOW FOR MODIFICATION OR ADDITION OF ELECTRICAL DEVICES (LIGHTING, FIRE ALARM, POWER, SWITCHING, OCCUPANCY SENSORS, ETC.) BASED UPON THE REQUIREMENTS OF THE LOCAL INSPECTOR (A/HJ). THE LOCAL INSPECTOR (A/HJ) HAS THE AUTHORITY TO REQUIRE DEVICES TO BE ADDED, MODIFIED, OR RELOCATED BASED UPON HIS OPINION OF THE SPECIFIC INSTALLATION, EVEN IF THE BUILDING DEPARTMENT APPROVED THE PLANS WITHOUT COMMENTS. CONTRACTOR SHALL PROVIDE FOR ADDITIONAL, MODIFICATION, AND/OR RELOCATION OF ALL DEVICES REQUIRED BY THE INSPECTOR WITHOUT ADDITIONAL COST TO THE OWNER.

LOW VOLTAGE SYSTEMS GENERAL NOTES

THE OWNER LOW VOLTAGE SYSTEMS' (TELEPHONE, DATA, EQUIPMENT RACK AND CABINET, WIRELESS ACCESS POINT, CABLE TV, MUSIC, COMPUTER/PRINTER, SOUND/PUBLIC ADDRESS SYSTEM, ELECTRONIC SECURITY SYSTEMS (INTRUSION DETECTION SYSTEM, CARD ACCESS & CCTV), PROJECTION SCREEN, AUDIO/VISUAL, FIRE ALARM, ETC.) SUBCONTRACTOR SHALL PROVIDE COMPLETE SET OF EACH SYSTEM SHOP DRAWINGS SUBMITTALS REFLECTING A FULLY-FUNCTIONAL INSTALLATION AS PER OWNER REQUIREMENTS AND SPECIFICATIONS AFFECTED BY THIS NEW DEMOLITION AND RENOVATION WORK. BIDS SHALL BE BASED UPON SUCH A SYSTEM. CHANGE ORDERS FOR ADDITIONAL REQUIRED COMPONENTS AND WIRING NOT SHOWN IN EACH SYSTEM SHOP DRAWING PLANS WILL NOT BE APPROVED. THE LOW VOLTAGE SYSTEMS SUBCONTRACTOR SHALL COORDINATE WITH OWNER'S REPRESENTATIVE FOR THE EXACT LOW VOLTAGE SYSTEMS REQUIREMENTS AND SPECIFICATIONS AFFECTED BY THIS NEW DEMOLITION AND RENOVATION WORK PRIOR TO BIDDING AND COMMENCING ANY WORK IN THIS SITE. ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN INSTALLATION OF OUTLET BOXES, PULLBOXES, EMPTY CONDUITS WITH PULLSTRINGS, ETC. AND 120V BRANCH CIRCUIT WIRING CONNECTION AS REQUIRED PER FINAL APPROVED LOW VOLTAGE SYSTEMS SHOP DRAWINGS SUBMITTALS. EC SHALL COORDINATE ALL WORK WITH LOW VOLTAGE SYSTEMS SUBCONTRACTOR FOR THE EXACT ELECTRICAL REQUIREMENTS PRIOR TO START OF CONSTRUCTION.

EXPANSIONS/MODIFICATIONS TO EXISTING SYSTEMS:

1. PROVIDE ALL NEW COMPONENTS, ETC. TO MATCH EXISTING LOW VOLTAGE SYSTEMS MANUFACTURER AND SYSTEM TYPE AS REQUIRED PER OWNER BUILDING FACILITY STANDARD REQUIREMENTS AND SPECIFICATIONS.
2. PROVIDE ALL EXPANSIONS, MODIFICATIONS, PROGRAMMING, TESTING, ETC. TO ACCOMMODATE EXPANSIONS/MODIFICATIONS TO EXISTING SYSTEMS AS INDICATED ON THE FINAL APPROVED LOW VOLTAGE SYSTEMS SHOP DRAWINGS SUBMITTALS.
3. COORDINATE ALL WORK WITH LOW VOLTAGE SYSTEMS CONTRACTOR, SYSTEMS MANUFACTURER, VENDOR, AND SERVICE PROVIDERS.

NOTE: LOW VOLTAGE SYSTEMS SHOP DRAWINGS ARE NOT AVAILABLE AT THIS TIME. THE THREE (3) SETS OF LOW VOLTAGE SYSTEMS SHOP DRAWINGS WILL BE SUBMITTED TO QUORUM SERVICES FOR REVIEW AND BEFORE INSTALLATION OF THE LOW VOLTAGE SYSTEMS. ONCE THE LOW VOLTAGE SYSTEMS PLANS HAVE BEEN APPROVED BY QUORUM SERVICES, THE LOW VOLTAGE SYSTEMS CONTRACTOR WILL NEED TO SUBMIT THE PLANS APPROVED BY QUORUM SERVICES ALONG WITH A PERMIT APPLICATION TO THE LOCAL COUNTY BUILDING PERMIT DIVISION AS A REVISION TO THE BUILDING PERMIT.

LIGHTING SYSTEM FUNCTIONAL TESTING

BEFORE FINAL INSPECTION A FACTORY CONTROL CONSULTANT SHALL PROVIDE EVIDENCE THAT LIGHTING CONTROLS HAVE BEEN TESTED, CALIBRATED, ADJUSTED, PROGRAMMED AND ARE IN WORKING CONDITION.

- TEST OCCUPANCY SENSORS RESPONSIVENESS.
- TEST OCCUPANCY SENSORS FOR DELAYED AUTOMATIC TIME OFF.
- TEST AUTO TIMECLOCK PROPER OPERATION IN LIGHTING CONTROL PANEL.
- TEST LOW VOLTAGE SWITCHES FOR PROPER OPERATION.

PROVIDE OWNER DOCUMENTS CERTIFYING LIGHTING CONTROLS MEET PERFORMANCE CRITERIA WITHIN 90 DAYS AFTER CERTIFICATE OF OCCUPANCY.

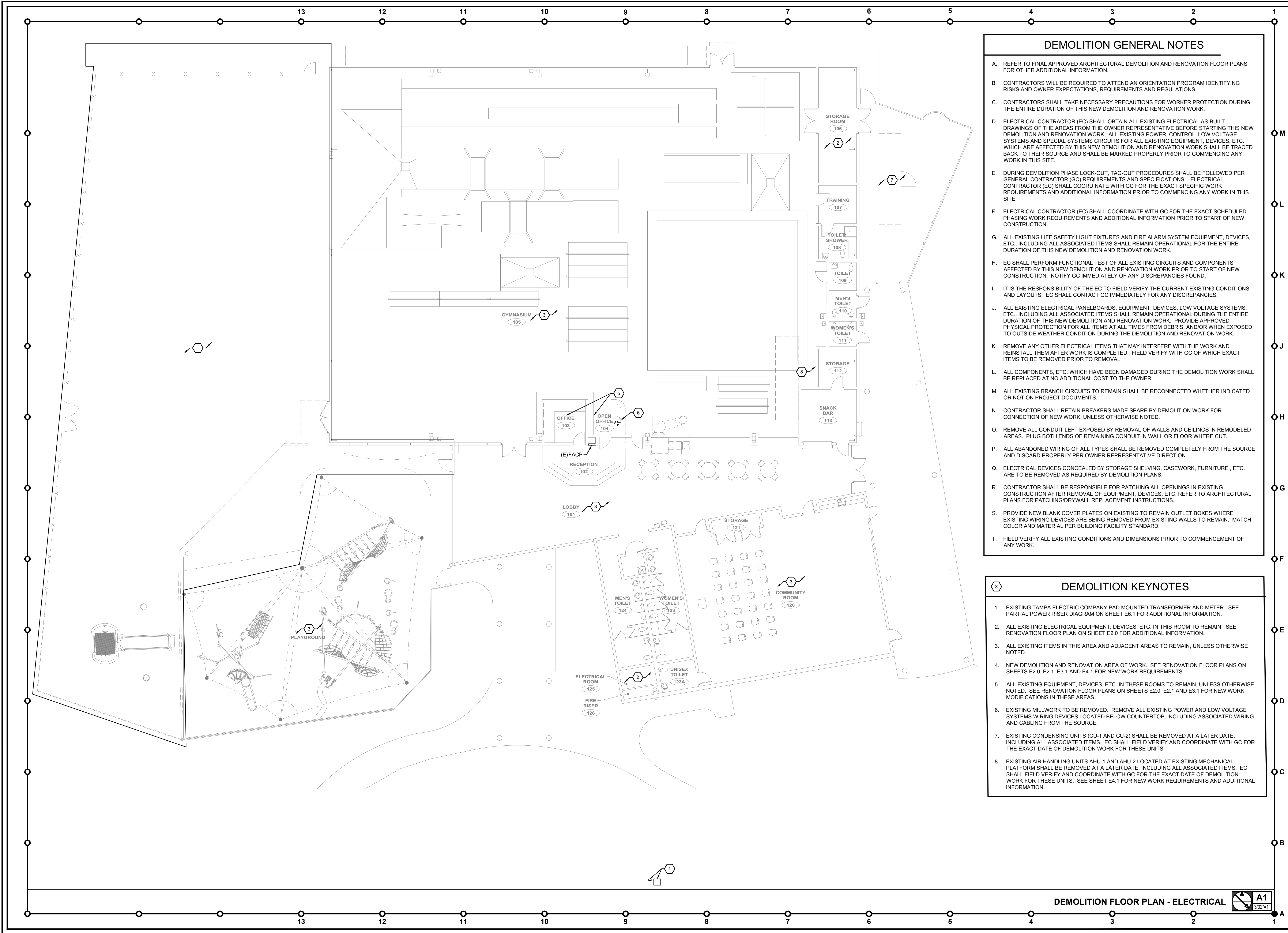
ELECTRICAL SPECIFICATIONS AND GENERAL NOTES

1. ALL ELECTRICAL WORK AND MATERIAL SHALL BE NEW AND PROVIDED BY THE CONTRACTOR. THE WORK, APPARATUS AND MATERIALS WHICH SHALL BE FURNISHED UNDER THE ELECTRICAL SPECIFICATIONS AND ACCOMPANYING DRAWINGS SHALL INCLUDE ALL ITEMS SPECIFIED HEREINAFTER AND SHOWN ON THE DRAWINGS. ALL OTHER MATERIALS NECESSARY FOR THE COMPLETE INSTALLATION SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR TO PROVIDE COMPLETE ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS.
2. THE ELECTRICAL DRAWINGS ARE SCHEMATIC IN NATURE. BEFORE STARTING THE WORK THE CONTRACTOR SHALL REVIEW ALL OTHER DISCIPLINE DRAWINGS AND VERIFY FIELD CONDITIONS AND SHALL MAKE ANY REQUIRED MINOR ADJUSTMENTS WITHOUT EXTRA COST TO THE OWNER. ANY MAJOR DISCREPANCIES FOUND SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE GENERAL CONTRACTOR (GC).
3. CONTRACTOR SHALL EXTEND THE SERVICE FROM THE POINT OF SERVICE ATTACHMENT FURNISHING ALL PROTECTIVE DEVICES, CONDUCTORS, SUPPORTS, RACEWAYS, ETC. TO PROVIDE COMPLETE ELECTRICAL SYSTEMS TO SERVE MOTOR LOADS, LIGHTING LOADS AND MISCELLANEOUS ELECTRICAL LOADS, AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREINAFTER. THE WORK SHALL INCLUDE COMPLETE TESTING OF ALL EQUIPMENT AND WIRING AT THE COMPLETION OF THE WORK AND MAKING ANY MINOR CONNECTION CHANGES OR ADJUSTMENTS NECESSARY FOR THE PROPER FUNCTIONING OF ALL SYSTEMS AND EQUIPMENT. ALL WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY AND NO SUBSTANDARD WORK WILL BE ACCEPTED.
4. CONTRACTOR SHALL REFER TO INTERIOR ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHTS AND/OR LOCATIONS OF ALL LIGHTING FIXTURES, SWITCHES, OUTLETS AND WIRING DEVICES AND SHALL PERFORM ALL WORK NOTED ON PLANS, IN NOTES OR IN DETAILS RELATED TO ELECTRICAL HORIZONTAL MOUNT WHERE DIRECTED BY ARCHITECT. COORDINATE WITH MILLWORK CONTRACTOR AND OTHER TRADES PRIOR TO COMMENCING ANY WORK.
5. ALL WORK SHALL BE PERFORMED DURING TIME PERIODS ACCEPTABLE TO THE BUILDING FACILITY PROJECT MANAGER. SCHEDULE ALL WORK WITH THE GC BEFORE PROCEEDING.
6. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL ENSURE THAT ALL SYSTEMS OPERATE AS DESIGNED AND SHALL REVIEW THEIR OPERATION WITH THE GC AND THE OWNER PERSONNEL. COMPLETE SET OF AS-BUILT DRAWINGS SHALL BE COMPILED BY THE CONTRACTOR AND ISSUED TO THE GC AND ARCHITECT UPON COMPLETION OF CONSTRUCTION AND TESTING.
7. THE CONTRACTOR SHALL MEET AT THE SITE AND COORDINATE ALL REQUIRED POWER SERVICE CONNECTION WITH THE LOCAL UTILITY POWER COMPANY AND LOW VOLTAGE SYSTEMS WITH THE LOCAL PROVIDER IN THIS AREA PRIOR TO CONSTRUCTION. AT THAT TIME, THE CONTRACTOR SHALL COORDINATE ALL RELATED WORK WITH THE UTILITY COMPANY'S RESPONSIBILITIES TO MEET THE OWNER'S SCHEDULE.
8. ALL ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN AN APPROVED RACEWAY, EMT, RIGID GALVANIZED CONDUIT OR SCHEDULE 40 P.V.C. MAXIMUM NUMBER OF 120V CIRCUITS ALLOWED IN A COMMON CONDUIT SHALL BE FOUR (4). THE CONTRACTOR SHALL STRICTLY CONFORM TO THE N.E.C. REQUIREMENTS OF DERATING FOR CONDUCTOR AMPACITY AND CONDUIT FILL. NO CONDUITS SHALL BE INSTALLED, EXPOSED OR ROOF.
9. CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS:

200% SYSTEM	PHASE SEQUENCE
NEUTRAL - WHITE	ABC, TOP TO BOTTOM
PHASE A - BLACK	LEFT TO RIGHT, FRONT TO BACK
PHASE B - RED	
PHASE C - BLUE	
GRD.CON - GREEN	
10. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST-CLASS WORKMANLIKE MANNER. THE COMPLETED ELECTRICAL SYSTEMS ARE TO BE FULLY OPERABLE AND ACCEPTABLE TO THE GC, ARCHITECT AND ENGINEER OF RECORD.
11. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM, AND PROVIDE ALL NECESSARY DEVICES AND COMPONENTS FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
12. MATERIALS AND INSTALLATION, AS A MINIMUM, ARE TO CONFORM WITH ALL KEY CODES AND STANDARDS AS INDICATED ON SHEET E-0.0. EQUIPMENT AND DEVICES WHERE APPLICABLE, WILL BE LISTED WITH THE UNDERWRITERS LABORATORIES, INC. QUALITY AND WORKMANSHIP ESTABLISHED BY THE DRAWINGS AND SPECIFICATIONS ARE NOT TO BE REDUCED BY THE ABOVE MENTIONED KEY CODES AND STANDARDS.
13. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
14. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE. CORRECTION OF ANY DEFECTS TO BE COMPLETED WITHOUT ADDITIONAL CHARGE AND TO INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
15. ALL CONDUCTORS SHALL BE IN CONDUIT, UNLESS OTHERWISE NOTED. MINIMUM CONDUIT SIZE SHALL BE 3/4". MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG. ALL BRANCH CIRCUITS SHALL BE PROVIDED WITH AN INDIVIDUAL NEUTRAL AND GROUNDING CONDUCTOR WITH THE PHASE CONDUCTORS. ALL CONDUCTORS SHALL BE COPPER WITH THW/THHN INSULATION. CONDUCTORS #10 AND SMALLER MAY BE SOLID; ALL THOSE #8 AND LARGER TO BE STRANDED.
16. A SEPARATE, GREEN TYPE THW/THHN COPPER EQUIPMENT GROUND CONDUCTOR SHALL BE RUN FROM GROUND LUG OF EACH GROUNDED RECEPTACLE TO AN APPROVED CONNECTION INSIDE THE ENCLOSING STEEL OUTLET BOX. DEVICE MOUNTING SCREWS SHALL NOT BE CONSIDERED AN APPROVED GROUND.
17. A SEPARATE GROUND CONDUCTOR SHALL BE INSTALLED IN EVERY CONDUIT AND RACEWAY AND SECURELY BONDED IN AN APPROVED GROUNDING TERMINAL AT BOTH ENDS OF THE RUN. THE GROUNDING CONDUCTOR SHALL BE SIZED IN ACCORDANCE WITH TABLE 250.122 OF THE NEC. CONTRACTOR SHALL SIZE CONDUIT TO ACCOMMODATE ADDITIONAL CONDUCTOR(S).
18. ALL UNDERGROUND RACEWAYS SHALL BE MINIMUM 3/4", GALVANIZED RIGID STEEL CONDUIT OR SCHEDULE 40 PVC. ALL OTHER RACEWAYS TO COMPLY WITH GOVERNING CODES. WHERE RIGID STEEL IS USED, IT SHALL BE COMPLETELY COATED WITH AN ALKALI AND RUST RESISTANT BITUMASTIC PAH, AND TREADS SHALL BE COATED WITH ZINC CHROMATE. RIGID STEEL SHALL ALSO BE USED WHEN CONDUIT IS EXPOSED TO EXTERIOR ENVIRONMENT SUCH AS EXTERIOR OF BUILDING OR WHERE IT IS EXPOSED AND SUBJECT TO DAMAGE, INSIDE OF BUILDING.
19. ALL UNDERGROUND SERVICE CONDUITS/RACEWAYS ENTERING THE BUILDING OR STRUCTURE FROM OUTSIDE TO INSIDE SHALL BE SEALED, INCLUDING SPARE CONDUITS. SEALANT SHALL BE SUITABLE FOR THIS USE.
NOTE: PROVIDE APPROVED BLOCK OPENING, SIZE AS REQUIRED, FOR ALL CONDUITS ENTERING THE BUILDING. COORDINATE WITH THE PROJECT STRUCTURAL ENGINEER FOR EXACT SIZE, LOCATION AND QUANTITY OF BLOCK OPENING PRIOR TO COMMENCING ANY WORK.
20. ALL UNDERGROUND PVC CONDUIT RUNS SHALL HAVE RIGID STEEL ELBOWS AND RIGID STEEL SECTIONS ABOVE AT SLAB PENETRATIONS WHERE SUBJECT TO POSSIBLE DAMAGE.
21. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS, AND BE OF SPECIAL CONSTRUCTION FOR OTHER CLASSIFIED AREAS. ALL BOXES SHALL BE RECESSED (FLUSH) IN WALLS OR CEILING WHEREVER POSSIBLE.
22. DISCONNECT SWITCHES SHALL BE H.P. RATED, HEAVY DUTY, QUICK-MAKE, QUICK-BREAK TYPE. ENCLOSURES SHALL BE AS REQUIRED BY NEC AND LOCATION (WEATHERPROOF, EXPLOSION PROOF, ETC.). ENGRAVED LAMINATED PLASTIC IDENTIFICATION PLATES SHALL BE FURNISHED AND INSTALLED ON ALL PANELS, DISCONNECT SWITCHES, CONTACTORS, MOTOR STARTERS AND ALL OTHER ELECTRICAL EQUIPMENT.
23. ALL FUSES FOR SAFETY SWITCHES SHALL BE DUAL ELEMENT, CARTRIDGE TYPE. FUSES SHALL MATCH EXISTING FUSES LOCATED AT THE NEARBY EXISTING BUILDING. THE CONTRACTOR SHALL FURNISH TO THE GOVERNMENT ONE SPARE FUSE FOR EACH SIZE AND TYPE OF FUSE INSTALLED. FUSES 800 AMPS OR LESS SHALL BE CLASS RK1, TYPICAL. UNLESS OTHERWISE NOTED, FUSES OVER 800 AMPS SHALL BE CLASS 1.
24. ALL GENERAL PURPOSE SWITCHES, RECEPTACLES, COVER PLATES, ETC. SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER AS PER OWNER FACILITY STANDARD REQUIREMENTS AND SPECIFICATIONS.
NOTE: ALL OTHER REQUIRED DEVICES SHALL MATCH IN COLOR AND STYLE.
25. ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE MOUNTED AS PER EQUIPMENT AND DEVICE MANUFACTURER RECOMMENDATIONS.
26. ALL JUNCTION BOXES TO BE DESIGNATED WITH PERMANENT MARKER INDICATING PANELBOARD AND CIRCUIT NUMBERS OF BRANCH CIRCUIT WIRING CONTAINED WITHIN.

27. GROUND RODS SHALL BE 3/4" DIAMETER, TEN (10) FEET LONG COPPERCLAD STEEL. OBTAIN TWENTY FIVE (25) OHMS MAXIMUM RESISTANCE AS READ BY A FOUR-LEAD RESISTANCE TESTER, USING TWO REFERENCE RODS. IF TWENTY FIVE (25) OHMS CANNOT BE ACHIEVED, CONTRACTOR SHALL PROVIDE ADDITIONAL RODS, UNTIL TWENTY FIVE (25) HAS BEEN OBTAINED.
28. INSTALL LABEL TAGS ON ALL WIRE AND CABLE IN JUNCTION BOXES AND WIRING GUTTERS OF PANELBOARDS. TAGS SHALL IDENTIFY WIRE OR CABLE CIRCUIT NUMBER AND/OR EQUIPMENT SERVED AS SHOWN ON THE DRAWINGS.
29. LOAD DATA IS BASED ON INFORMATION GIVEN TO THE ENGINEER AT THE TIME OF DESIGN. FIELD VERIFY ALL EQUIPMENT NAMEPLATE RATINGS BEFORE ORDERING.
30. CIRCUITS SHOWN ON PLANS ARE TO DETERMINE LOAD DATA AND PANELBOARD SIZES. THE CONTRACTOR IS TO PROVIDE CIRCUITS AND ROUTING OF CONDUITS TO SUIT JOB CONDITIONS.
31. FURNISH AND INSTALL DISCONNECT SWITCHES, WIRING, AND CONNECTIONS ON ALL HVAC SYSTEM AS SHOWN ON PLANS, UNLESS OTHERWISE NOTED. ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE WITH MECHANICAL CONTRACTOR REGARDING SUPPLY AND INSTALLATION OF ALL REQUIRED CONTROLS IN CONDUITS.
32. THE DISCONNECT SWITCH, FUSE SIZES, CONDUIT AND WIRE SHOWN FOR ALL HVAC ARE SIZED PER THE MANUFACTURER, AND MODEL NUMBER LISTED ON THE MECHANICAL PLANS. IF THERE IS AN EQUAL MANUFACTURER, OR OTHER MANUFACTURER PROVIDED, THE MECHANICAL GENERAL CONTRACTOR SHALL BEAR ANY ADDITIONAL COST INCURRED IF THE ELECTRICAL IS NOT EQUAL TO THE SPECIFICATIONS.
33. ALL DISTRIBUTION PANELBOARDS, PANELBOARDS, STARTERS, CONTACTORS, ETC., SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER. ALL PANELBOARDS SHALL HAVE BOLT-ON TYPE CIRCUIT BREAKERS AND FULLY RATED, TANDEM AND HALF-SPACE CIRCUIT BREAKERS SHALL NOT BE USED.
34. TYPEWRITTEN CIRCUIT INDEX SHALL BE AFFIXED TO INSIDE SURFACE OF EACH PANELBOARD DOOR, CLEARLY INDICATING AREA AND TYPE OF LOAD SERVED BY EACH BRANCH CIRCUIT PROTECTIVE DEVICE, INCLUDING SPARES. HAND PRINTED DIRECTORIES WILL NOT BE ACCEPTED.
35. ENGRAVED, LAMINATED PLASTIC IDENTIFICATION PLATES SHALL BE FURNISHED AND INSTALLED ON ALL PANELBOARDS, DISCONNECT SWITCHES, ETC. PLATES SHALL BE AFFIXED TO FRONT OF PANELS, INDICATING PANEL NAME, VOLTAGE AND AMPERAGE.
36. PROVIDED LAMINATED PLASTIC NAMEPLATES FOR EACH EQUIPMENT ENCLOSURE. EACH NAMEPLATE IDENTIFY EQUIPMENT FUNCTION, PANELBOARD CONNECTED AND CIRCUIT NUMBER. NAMEPLATE SHALL BE MELAMINE PLASTIC (0.125 INCHES THICK), WHITE LETTERS ON BLACK BACKGROUND. MINIMUM SIZE OF LETTER SHALL BE 2.5 INCHES. IN ADDITION TO EQUIPMENT TAGGING, CONTRACTOR SHALL PROVIDE ARC-FLASH WARNING SIGNS FOR ALL ELECTRICAL EQUIPMENT AS PER MANUFACTURER REQUIREMENTS AND SPECIFICATIONS. NOTE: ALL NAMEPLATE CONNECTED TO THE EMERGENCY GENERATOR SHALL BE WHITE LETTERS ON RED BACKGROUND.
37. PROVIDE COMPUTER PRINTED ON WHITE WRAPAROUND PAPER WITH CLEAR PLASTIC PROTECTION TALL FOR ALL WIRE MARKERS. MARKER SHALL STATE PANELBOARD NAME AND CIRCUIT NUMBER ON ALL WIRES IN JUNCTION/PULL BOXES AND IN EQUIPMENT TERMINAL BOXES.
38. PROVIDE PUNCHED TAPE LABELS ON ALL WIRING DEVICES FOR IDENTIFICATION. IT SHALL BE 1/2" BLACK TAPE WITH WHITE RAISED LETTERS. TAPE LABELS SHALL STATE PANELBOARD NAME AND CIRCUIT NUMBER. NOTE: RED TAPE WITH WHITE RAISED LETTERS FOR OTHERS CONNECTED TO EMERGENCY POWER.
39. BALANCE ALL LOADS ON EACH PANELBOARD WITHIN 10%.
40. ALL MATERIALS AND EQUIPMENT TO BE INSTALLED SHALL BE NEW AND FREE OF DEFECTS. ALL ELECTRICAL EQUIPMENT SHALL COMPLY WITH NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) STANDARDS AND SHALL BE UL LABELED. ALL ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN A WORKMANLIKE MANNER.
41. PROVIDE INSULATION AND CONTINUITY TEST OF ALL 1000V AND LESS WIRES AND CABLES PER ELECTRICAL SPECIFICATIONS.
42. CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL CONDUIT PENETRATIONS MADE THROUGH FIRE RATED WALLS, CEILINGS, SLABS, ETC. PENETRATION SEALS SHALL BE PER UL ASSEMBLY STANDARDS.
43. PROVIDE STARTUP OF ALL ELECTRICAL SYSTEMS AND COORDINATE WITH THE GC FOR OWNER PERSONNEL STARTUP WITNESSING.
44. CONTRACTOR SHALL PROVIDE COMPLETE SHOP DRAWING SUBMITTALS FOR REVIEW AND APPROVAL OF THE LIGHT FIXTURES, LIGHTING CONTROL PANEL, TERMINAL CABINETS, PANELBOARDS, CIRCUIT BREAKERS, WIRING DEVICES, CONDUCTORS, RACEWAYS, ETC., LOW VOLTAGE SYSTEMS (TELEPHONE, DATA, TELECOM CABINETS, ELECTRONIC SECURITY SYSTEMS (INTRUSION DETECTION SYSTEM, SECURITY ACCESS CONTROL, SECURITY VIDEO SURVEILLANCE, CAMERAS (CCTV)), AUDIO/VISUAL, CABLE TV (CATV) AND OTHER RELATED LOW VOLTAGE SYSTEMS REQUIRED AND SPECIFIED BY THE OWNER WHICH ARE NOT SHOWN IN THE ELECTRICAL PLANS (FIELD VERIFY WITH OWNER REPRESENTATIVE). EACH SEPARATE AND COMPLETE LOW VOLTAGE SYSTEM SHOP DRAWINGS SUBMITTALS SHALL INCLUDE 1/8" FLOOR PLANS WITH DIMENSIONS, LEGEND, ABBREVIATIONS, WIRING DIAGRAMS, RISER DIAGRAMS, GENERAL NOTES, KEYNOTES, BATTERY CALCULATIONS, POWER REQUIREMENTS, HARDWARE, ACCESSORIES INCLUDING ASSOCIATED EQUIPMENT, DEVICES, COMPONENTS, ETC. INCLUDING ALL RELATED DOCUMENTS AND INFORMATION FOR OWNER, GC, ARCHITECT AND ENGINEER OF RECORD TO MAKE A SOUND EVALUATION.
45. THE OWNER RESERVES THE RIGHT TO REVISE THE DRAWING FROM TIME TO TIME TO INDICATE CHANGES IN THE WORK. WHEN REVISED DRAWINGS AND/OR ANY REVISIONS ARE ISSUED, THE CONTRACTOR SHALL EVALUATE THE CHANGES PROMPTLY. BEFORE INSTALLATION OF ANY ITEM OR PERFORMANCE OF THE WORK INDICATED BY THE REVISED DRAWINGS OR REVISIONS, THE CONTRACTOR SHALL NOTIFY THE GC IN WRITING THAT THE REVISED DRAWINGS INVOLVE AN ADDITION OR DEDUCTION OF A SPECIFIC AMOUNT OF MONEY TO THE CONTRACT PRICE. THE CONTRACTOR SHALL NOT PROCEED WITH THE REVISED WORK WITHOUT PRIOR WRITTEN APPROVAL BY THE GC OF THE COST OF THE REVISED WORK.
46. CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF CONTRACT DRAWINGS AT JOB SITE WITH COLORED MARKINGS INDICATING PROGRESS OF WORK. THIS SET OF CONTRACT DRAWINGS IS TO BE SEPARATED FROM AND IN ADDITION TO CONTRACTOR'S CONSTRUCTION SET. EVERY UNIT OF EQUIPMENT, DEVICE, CONDUIT, WIRE, ETC. IS TO BE MARKED WHEN INSTALLED. USE GREEN TO INDICATE INSTALLATION AS SHOWN ON DRAWINGS AND USE RED TO INDICATE FIELD CHANGES. UPON COMPLETION OF WORK, THIS SET OF CONTRACT DRAWINGS IS TO BE TURNED OVER TO, AND BECOME PROPERTY OF THE OWNER.
47. IT IS THE RESPONSIBILITY OF ALL BIDDERS TO THOROUGHLY REVIEW AND UNDERSTAND ALL CONSTRUCTION DOCUMENTS. THIS INCLUDES BUT IS NOT LIMITED TO ALL DRAWINGS, SPECIFICATION SECTIONS, ETC. THE DRAWINGS ARE SCHEMATIC IN NATURE, THEREFORE BEFORE STARTING ANY WORK, THE CONTRACTORS SHALL REVIEW ALL OTHER CONSTRUCTION DOCUMENTS, VERIFY FIELD CONDITIONS AND SHALL MAKE ANY REQUIRED MINOR ADJUSTMENTS WITHOUT EXTRA COST TO THE OWNER. ANY MAJOR DISCREPANCIES FOUND SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE BASE BID SHALL REFLECT THE TOTAL COST OF NEW EQUIPMENT INSTALLATION, THIS INCLUDES LABOR, ALL ELECTRICAL EQUIPMENT, CONTROLS, LV SYSTEMS, ETC. AND ALL OTHER ASSOCIATED MATERIALS FOR THE CONTRACTORS TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM, AND PROVIDE ALL NECESSARY DEVICES, COMPONENTS, ETC. FOR ALL EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER. NO CHANGE ORDERS SHALL BE ISSUED WITHOUT WRITTEN CONSENT AND APPROVAL FROM ARCHITECT/ENGINEER AND OWNER.
48. EC SHALL FURNISH AND INSTALL WP DRIP PAN ON TOP OF ALL PANELBOARDS ENCLOSURE AND FIRE ALARM SYSTEM EQUIPMENT ENCLOSURES, ETC. AND PROVIDE WP INSTALLATIONS AS NEEDED.
49. ELECTRICAL CONTRACTOR SHALL NOT ORDER ANY MATERIALS OR START ANY CONSTRUCTION UNTIL THE OWNER REPRESENTATIVE HAS APPROVED ALL RELATED SHOP DRAWINGS SUBMITTALS.
50. ELECTRICAL CONTRACTOR SHALL INSTALL ALL ELECTRICAL EQUIPMENT AND MAINTAIN MOUNTING HEIGHT OF SIX (6) INCHES FROM THE BOTTOM OF ALL EQUIPMENT AND DEVICES TO THE ABOVE BASELINE FLOOD ELEVATION PER STATE AND CITY REGULATORY AGENCIES.
51. IF ELECTRICAL CONTRACTOR HAS QUESTIONS, OR IN THEIR OPINION FINDS OMISSIONS OR ERRORS ON ELECTRICAL DOCUMENTS, IT IS THEIR RESPONSIBILITY TO BRING THIS TO THE ATTENTION OF THE ELECTRICAL ENGINEER/ARCHITECT/OWNER IMMEDIATELY. IF ELECTRICAL CONTRACTOR PROCEEDS WITH ANY CHANGES TO THE CONTRACT DOCUMENTS WITHOUT WRITTEN PRIOR APPROVAL FROM THE ELECTRICAL ENGINEER/ARCHITECT/OWNER WILL NOT BE COMPENSATED.
52. REFER TO THE ELECTRICAL SPECIFICATIONS FOR OTHER REQUIREMENTS AND ANY ADDITIONAL INFORMATION NOT SHOWN IN THE ELECTRICAL PLANS.

[illegible]



DEMOLITION GENERAL NOTES

- A. REFER TO FINAL APPROVED ARCHITECTURAL DEMOLITION AND RENOVATION FLOOR PLANS FOR OTHER ADDITIONAL INFORMATION.
- B. CONTRACTORS WILL BE REQUIRED TO ATTEND AN ORIENTATION PROGRAM IDENTIFYING RISKS AND OWNER EXPECTATIONS, REQUIREMENTS AND REGULATIONS.
- C. CONTRACTORS SHALL TAKE NECESSARY PRECAUTIONS FOR WORKER PROTECTION DURING THE ENTIRE DURATION OF THIS NEW DEMOLITION AND RENOVATION WORK.
- D. ELECTRICAL CONTRACTOR (EC) SHALL OBTAIN ALL EXISTING ELECTRICAL AS-BUILT DRAWINGS OF THE AREAS FROM THE OWNER REPRESENTATIVE BEFORE STARTING THIS NEW DEMOLITION AND RENOVATION WORK. ALL EXISTING POWER, CONTROL, LOW VOLTAGE SYSTEMS AND SPECIAL SYSTEMS CIRCUITS FOR ALL EXISTING EQUIPMENT, DEVICES, ETC. WHICH ARE AFFECTED BY THIS NEW DEMOLITION AND RENOVATION WORK SHALL BE TRACED BACK TO THEIR SOURCE AND SHALL BE MARKED PROPERLY PRIOR TO COMMENCING ANY WORK IN THIS SITE.
- E. DURING DEMOLITION PHASE LOCK-OUT, TAG-OUT PROCEDURES SHALL BE FOLLOWED PER GENERAL CONTRACTOR (GC) REQUIREMENTS AND SPECIFICATIONS. ELECTRICAL CONTRACTOR (EC) SHALL COORDINATE WITH GC FOR THE EXACT SPECIFIC WORK REQUIREMENTS AND ADDITIONAL INFORMATION PRIOR TO COMMENCING ANY WORK IN THIS SITE.
- F. ELECTRICAL CONTRACTOR (EC) SHALL COORDINATE WITH GC FOR THE EXACT SCHEDULED PHASING WORK REQUIREMENTS AND ADDITIONAL INFORMATION PRIOR TO START OF NEW CONSTRUCTION.
- G. ALL EXISTING LIFE SAFETY LIGHT FIXTURES AND FIRE ALARM SYSTEM EQUIPMENT, DEVICES, ETC., INCLUDING ALL ASSOCIATED ITEMS SHALL REMAIN OPERATIONAL FOR THE ENTIRE DURATION OF THIS NEW DEMOLITION AND RENOVATION WORK.
- H. EC SHALL PERFORM FUNCTIONAL TEST OF ALL EXISTING CIRCUITS AND COMPONENTS AFFECTED BY THIS NEW DEMOLITION AND RENOVATION WORK PRIOR TO START OF NEW CONSTRUCTION. NOTIFY GC IMMEDIATELY OF ANY DISCREPANCIES FOUND.
- I. IT IS THE RESPONSIBILITY OF THE EC TO FIELD VERIFY THE CURRENT EXISTING CONDITIONS AND LAYOUTS. EC SHALL CONTACT GC IMMEDIATELY FOR ANY DISCREPANCIES.
- J. ALL EXISTING ELECTRICAL PANELBOARDS, EQUIPMENT, DEVICES, LOW VOLTAGE SYSTEMS, ETC., INCLUDING ALL ASSOCIATED ITEMS SHALL REMAIN OPERATIONAL DURING THE ENTIRE DURATION OF THIS NEW DEMOLITION AND RENOVATION WORK. PROVIDE APPROVED PHYSICAL PROTECTION FOR ALL ITEMS AT ALL TIMES FROM DEBRIS, AND/OR WHEN EXPOSED TO OUTSIDE WEATHER CONDITION DURING THE DEMOLITION AND RENOVATION WORK.
- K. REMOVE ANY OTHER ELECTRICAL ITEMS THAT MAY INTERFERE WITH THE WORK AND REINSTALL THEM AFTER WORK IS COMPLETED. FIELD VERIFY WITH GC OF WHICH EXACT ITEMS TO BE REMOVED PRIOR TO REMOVAL.
- L. ALL COMPONENTS, ETC. WHICH HAVE BEEN DAMAGED DURING THE DEMOLITION WORK SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- M. ALL EXISTING BRANCH CIRCUITS TO REMAIN SHALL BE RECONNECTED WHETHER INDICATED OR NOT ON PROJECT DOCUMENTS.
- N. CONTRACTOR SHALL RETAIN BREAKERS MADE SPARE BY DEMOLITION WORK FOR CONNECTION OF NEW WORK, UNLESS OTHERWISE NOTED.
- O. REMOVE ALL CONDUIT LEFT EXPOSED BY REMOVAL OF WALLS AND CEILINGS IN REMODELED AREAS. PLUG BOTH ENDS OF REMAINING CONDUIT IN WALL OR FLOOR WHERE CUT.
- P. ALL ABANDONED WIRING OF ALL TYPES SHALL BE REMOVED COMPLETELY FROM THE SOURCE AND DISCARD PROPERLY PER OWNER REPRESENTATIVE DIRECTION.
- Q. ELECTRICAL DEVICES CONCEALED BY STORAGE SHELVING, CASEWORK, FURNITURE, ETC. ARE TO BE REMOVED AS REQUIRED BY DEMOLITION PLANS.
- R. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ALL OPENINGS IN EXISTING CONSTRUCTION AFTER REMOVAL OF EQUIPMENT, DEVICES, ETC. REFER TO ARCHITECTURAL PLANS FOR PATCHING/DRYWALL REPLACEMENT INSTRUCTIONS.
- S. PROVIDE NEW BLANK COVER PLATES ON EXISTING TO REMAIN OUTLET BOXES WHERE EXISTING WIRING DEVICES ARE BEING REMOVED FROM EXISTING WALLS TO REMAIN. MATCH COLOR AND MATERIAL PER BUILDING FACILITY STANDARD.
- T. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCEMENT OF ANY WORK.

DEMOLITION KEYNOTES

1. EXISTING TAMPA ELECTRIC COMPANY PAD MOUNTED TRANSFORMER AND METER. SEE PARTIAL POWER RISER DIAGRAM ON SHEET E6.1 FOR ADDITIONAL INFORMATION.
2. ALL EXISTING ELECTRICAL EQUIPMENT, DEVICES, ETC. IN THIS ROOM TO REMAIN. SEE RENOVATION FLOOR PLAN ON SHEET E2.0 FOR ADDITIONAL INFORMATION.
3. ALL EXISTING ITEMS IN THIS AREA AND ADJACENT AREAS TO REMAIN, UNLESS OTHERWISE NOTED.
4. NEW DEMOLITION AND RENOVATION AREA OF WORK. SEE RENOVATION FLOOR PLANS ON SHEETS E2.0, E2.1, E3.1 AND E4.1 FOR NEW WORK REQUIREMENTS.
5. ALL EXISTING EQUIPMENT, DEVICES, ETC. IN THESE ROOMS TO REMAIN, UNLESS OTHERWISE NOTED. SEE RENOVATION FLOOR PLANS ON SHEETS E2.0, E2.1 AND E3.1 FOR NEW WORK MODIFICATIONS IN THESE AREAS.
6. EXISTING MILLWORK TO BE REMOVED. REMOVE ALL EXISTING POWER AND LOW VOLTAGE SYSTEMS WIRING DEVICES LOCATED BELOW COUNTERTOP, INCLUDING ASSOCIATED WIRING AND CABLING FROM THE SOURCE.
7. EXISTING CONDENSING UNITS (CU-1 AND CU-2) SHALL BE REMOVED AT A LATER DATE, INCLUDING ALL ASSOCIATED ITEMS. EC SHALL FIELD VERIFY AND COORDINATE WITH GC FOR THE EXACT DATE OF DEMOLITION WORK FOR THESE UNITS.
8. EXISTING AIR HANDLING UNITS AHU-1 AND AHU-2 LOCATED AT EXISTING MECHANICAL PLATFORM SHALL BE REMOVED AT A LATER DATE, INCLUDING ALL ASSOCIATED ITEMS. EC SHALL FIELD VERIFY AND COORDINATE WITH GC FOR THE EXACT DATE OF DEMOLITION WORK FOR THESE UNITS. SEE SHEET E4.1 FOR NEW WORK REQUIREMENTS AND ADDITIONAL INFORMATION.

DEMOLITION FLOOR PLAN - ELECTRICAL



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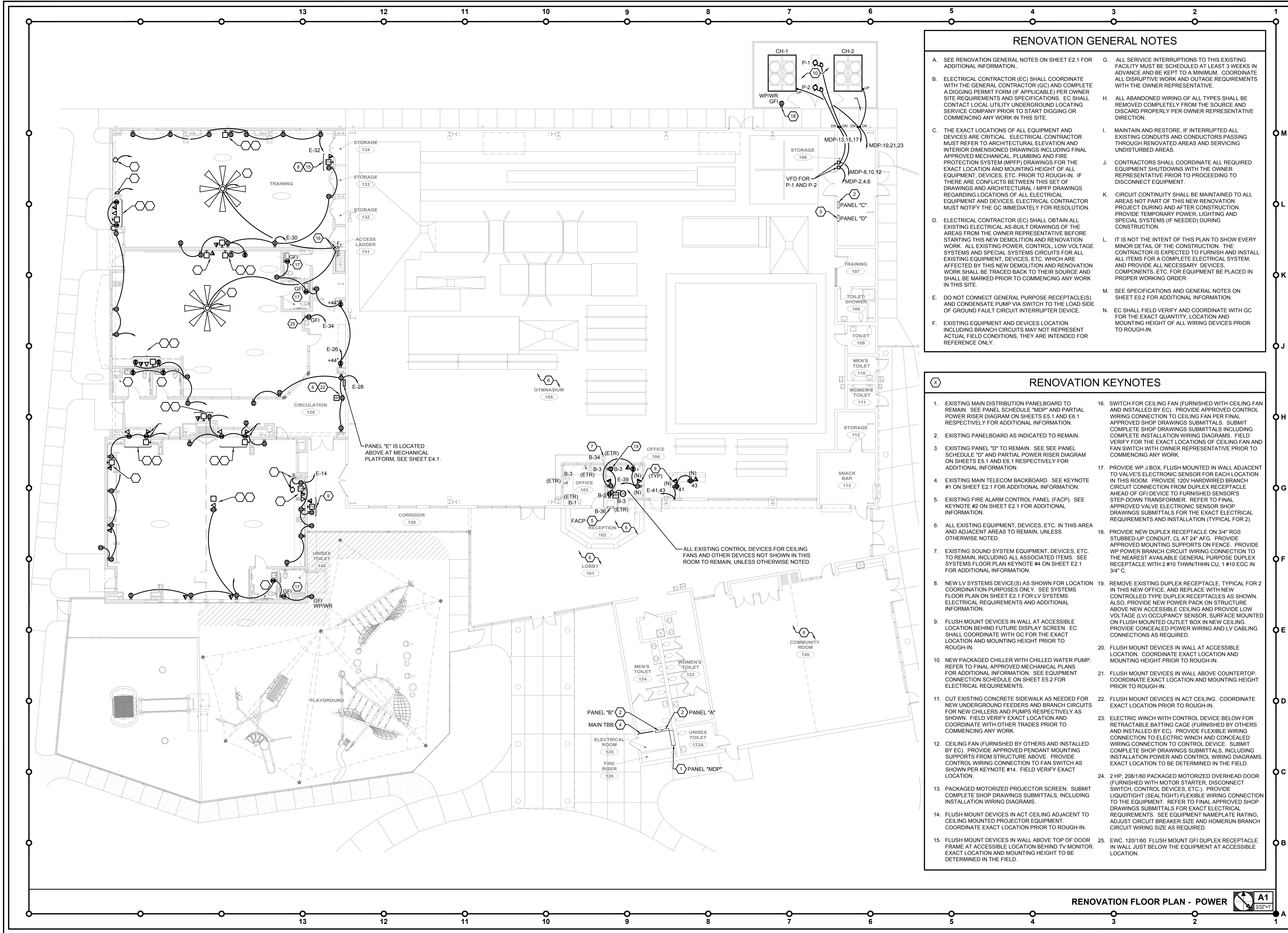
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CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THESE DRAWINGS COMPLY WITH ALL RELEVANT BUILDING CODES.

FGA PROJECT NUMBER
18015

ISSUE DATE
11/07/18

SHEET NUMBER
E1.1

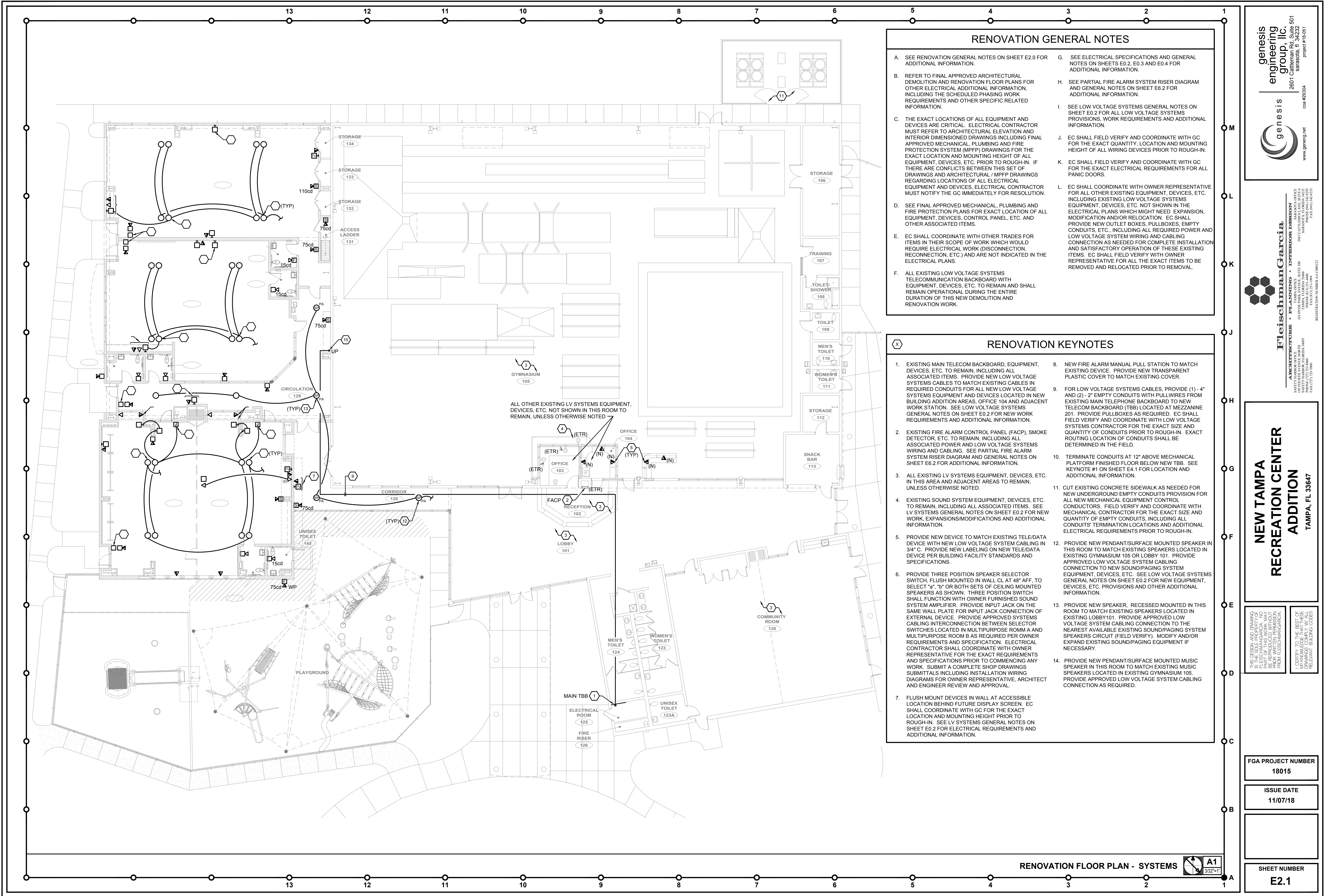


RENOVATION GENERAL NOTES

- A. SEE RENOVATION GENERAL NOTES ON SHEET E2.1 FOR ADDITIONAL INFORMATION..
- B. ELECTRICAL CONTRACTOR (EC) SHALL COORDINATE WITH THE GENERAL CONTRACTOR (GC) AND COMPLETE A DIGGING PERMIT FORM (IF APPLICABLE) PER OWNER SITE REQUIREMENTS AND SPECIFICATIONS. EC SHALL CONTACT LOCAL UTILITY UNDERGROUND LOCATING SERVICE COMPANY PRIOR TO START DIGGING OR COMMENCING ANY WORK IN THIS SITE.
- C. THE EXACT LOCATIONS OF ALL EQUIPMENT AND DEVICES ARE CRITICAL. ELECTRICAL CONTRACTOR MUST REFER TO ARCHITECTURAL ELEVATION AND INTERIOR DIMENSIONED DRAWINGS INCLUDING FINAL APPROVED MECHANICAL, PLUMBING AND FIRE PROTECTION SYSTEM (MPFP) DRAWINGS FOR THE EXACT LOCATION AND MOUNTING HEIGHT OF ALL EQUIPMENT, DEVICES, ETC. PRIOR TO ROUGH-IN. IF THERE ARE CONFLICTS BETWEEN THIS SET OF DRAWINGS AND ARCHITECTURAL / MPFP DRAWINGS REGARDING LOCATIONS OF ALL ELECTRICAL EQUIPMENT AND DEVICES, ELECTRICAL CONTRACTOR MUST NOTIFY THE GC IMMEDIATELY FOR RESOLUTION.
- D. ELECTRICAL CONTRACTOR (EC) SHALL OBTAIN ALL EXISTING ELECTRICAL AS-BUILT DRAWINGS OF THE AREAS FROM THE OWNER REPRESENTATIVE BEFORE STARTING THIS NEW DEMOLITION AND RENOVATION WORK. ALL EXISTING POWER, CONTROL, LOW VOLTAGE SYSTEMS AND SPECIAL SYSTEMS CIRCUITS FOR ALL EXISTING EQUIPMENT, DEVICES, ETC. WHICH ARE AFFECTED BY THIS NEW DEMOLITION AND RENOVATION WORK SHALL BE TRACED BACK TO THEIR SOURCE AND SHALL BE MARKED PRIOR TO COMMENCING ANY WORK IN THIS SITE.
- E. DO NOT CONNECT GENERAL PURPOSE RECEPTACLE(S) AND CONDENSATE PUMP VIA SWITCH TO THE LOAD SIDE OF GROUND FAULT CIRCUIT INTERRUPTER DEVICE.
- F. EXISTING EQUIPMENT AND DEVICES LOCATION INCLUDING BRANCH CIRCUITS MAY NOT REPRESENT ACTUAL FIELD CONDITIONS, THEY ARE INTENDED FOR REFERENCE ONLY.
- G. ALL SERVICE INTERRUPTIONS TO THIS EXISTING FACILITY MUST BE SCHEDULED AT LEAST 3 WEEKS IN ADVANCE AND BE KEPT TO A MINIMUM. COORDINATE ALL DISRUPTIVE WORK AND OUTAGE REQUIREMENTS WITH THE OWNER REPRESENTATIVE.
- H. ALL ABANDONED WIRING OF ALL TYPES SHALL BE REMOVED COMPLETELY FROM THE SOURCE AND DISCARD PROPERLY PER OWNER REPRESENTATIVE DIRECTION.
- I. MAINTAIN AND RESTORE, IF INTERRUPTED ALL EXISTING CONDUITS AND CONDUCTORS PASSING THROUGH RENOVATED AREAS AND SERVICING UNDISTURBED AREAS.
- J. CONTRACTORS SHALL COORDINATE ALL REQUIRED EQUIPMENT SHUTDOWNS WITH THE OWNER REPRESENTATIVE PRIOR TO PROCEEDING TO DISCONNECT EQUIPMENT.
- K. CIRCUIT CONTINUITY SHALL BE MAINTAINED TO ALL AREAS NOT PART OF THIS NEW RENOVATION PROJECT DURING AND AFTER CONSTRUCTION. PROVIDE TEMPORARY POWER, LIGHTING AND SPECIAL SYSTEMS (IF NEEDED) DURING CONSTRUCTION.
- L. IT IS NOT THE INTENT OF THIS PLAN TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM, AND PROVIDE ALL NECESSARY DEVICES, COMPONENTS, ETC. FOR EQUIPMENT BE PLACED IN PROPER WORKING ORDER.
- M. SEE SPECIFICATIONS AND GENERAL NOTES ON SHEET E0.2 FOR ADDITIONAL INFORMATION.
- N. EC SHALL FIELD VERIFY AND COORDINATE WITH GC FOR THE EXACT QUANTITY, LOCATION AND MOUNTING HEIGHT OF ALL WIRING DEVICES PRIOR TO ROUGH-IN.

RENOVATION KEYNOTES

- 1. EXISTING MAIN DISTRIBUTION PANELBOARD TO REMAIN. SEE PANEL SCHEDULE "MDP" AND PARTIAL POWER RISER DIAGRAM ON SHEETS E5.1 AND E6.1 RESPECTIVELY FOR ADDITIONAL INFORMATION.
- 2. EXISTING PANELBOARD AS INDICATED TO REMAIN.
- 3. EXISTING PANEL "D" TO REMAIN. SEE SEE PANEL SCHEDULE "D" AND PARTIAL POWER RISER DIAGRAM ON SHEETS E5.1 AND E6.1 RESPECTIVELY FOR ADDITIONAL INFORMATION.
- 4. EXISTING MAIN TELECOM BACKBOARD. SEE KEYNOTE #1 ON SHEET E2.1 FOR ADDITIONAL INFORMATION.
- 5. EXISTING FIRE ALARM CONTROL PANEL (FACP). SEE KEYNOTE #2 ON SHEET E2.1 FOR ADDITIONAL INFORMATION.
- 6. ALL EXISTING EQUIPMENT, DEVICES, ETC. IN THIS AREA AND ADJACENT AREAS TO REMAIN, UNLESS OTHERWISE NOTED.
- 7. EXISTING SOUND SYSTEM EQUIPMENT, DEVICES, ETC. TO REMAIN, INCLUDING ALL ASSOCIATED ITEMS. SEE SYSTEMS FLOOR PLAN KEYNOTE #4 ON SHEET E2.1 FOR ADDITIONAL INFORMATION.
- 8. NEW LV SYSTEMS DEVICE(S) AS SHOWN FOR LOCATION IN THIS NEW OFFICE. AND REPLACE WITH NEW FLOOR PLAN ON SHEET E2.1 FOR LV SYSTEMS ELECTRICAL REQUIREMENTS AND ADDITIONAL INFORMATION.
- 9. FLUSH MOUNT DEVICES IN WALL AT ACCESSIBLE LOCATION BEHIND FUTURE DISPLAY SCREEN. EC SHALL COORDINATE WITH GC FOR THE EXACT LOCATION AND MOUNTING HEIGHT PRIOR TO ROUGH-IN.
- 10. NEW PACKAGED CHILLER WITH CHILLED WATER PUMP. REFER TO FINAL APPROVED MECHANICAL PLANS FOR ADDITIONAL INFORMATION. SEE EQUIPMENT CONNECTION SCHEDULE ON SHEET E5.2 FOR ELECTRICAL REQUIREMENTS.
- 11. CUT EXISTING CONCRETE SIDEWALK AS NEEDED FOR NEW UNDERGROUND FEEDERS AND BRANCH CIRCUITS FOR NEW CHILLERS AND PUMPS RESPECTIVELY AS SHOWN. FIELD VERIFY EXACT LOCATION AND COORDINATE WITH OTHER TRADES PRIOR TO COMMENCING ANY WORK.
- 12. CEILING FAN (FURNISHED BY OTHERS AND INSTALLED BY EC). PROVIDE APPROVED PENDANT MOUNTING SUPPORTS FROM STRUCTURE ABOVE. PROVIDE CONTROL WIRING CONNECTION TO FAN SWITCH AS SHOWN PER KEYNOTE #14. FIELD VERIFY EXACT LOCATION.
- 13. PACKAGED MOTORIZED PROJECTOR SCREEN. SUBMIT COMPLETE SHOP DRAWINGS SUBMITTALS, INCLUDING INSTALLATION WIRING DIAGRAMS.
- 14. FLUSH MOUNT DEVICES IN ACT CEILING ADJACENT TO CEILING MOUNTED PROJECTOR EQUIPMENT. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
- 15. FLUSH MOUNT DEVICES IN WALL ABOVE TOP OF DOOR FRAME AT ACCESSIBLE LOCATION BEHIND TV MONITOR. EXACT LOCATION AND MOUNTING HEIGHT TO BE DETERMINED IN THE FIELD.
- 16. SWITCH FOR CEILING FAN (FURNISHED WITH CEILING FAN AND INSTALLED BY EC). PROVIDE APPROVED CONTROL WIRING CONNECTION TO CEILING FAN PER FINAL APPROVED SHOP DRAWINGS SUBMITTALS. SUBMIT COMPLETE SHOP DRAWINGS SUBMITTALS INCLUDING COMPLETE INSTALLATION WIRING DIAGRAMS. FIELD VERIFY FOR THE EXACT LOCATIONS OF CEILING FAN AND FAN SWITCH WITH OWNER REPRESENTATIVE PRIOR TO COMMENCING ANY WORK.
- 17. PROVIDE WP J BOX. FLUSH MOUNTED IN WALL ADJACENT TO VALVE'S ELECTRONIC SENSOR FOR EACH LOCATION IN THIS ROOM. PROVIDE 120V HARDWIRED BRANCH CIRCUIT CONNECTION FROM DUPLEX RECEPTACLE AHEAD OF GFI DEVICE TO FURNISHED SENSOR'S STEP-DOWN TRANSFORMER. REFER TO FINAL APPROVED VALVE ELECTRONIC SENSOR SHOP DRAWINGS SUBMITTALS FOR THE EXACT ELECTRICAL REQUIREMENTS AND INSTALLATION (TYPICAL FOR 2).
- 18. PROVIDE NEW DUPLEX RECEPTACLE ON 3/4" RGS STUBBED-UP CONDUIT, CL AT 24" AFG. PROVIDE APPROVED MOUNTING SUPPORTS ON FENCE. PROVIDE WP POWER BRANCH CIRCUIT WIRING CONNECTION TO THE NEAREST AVAILABLE GENERAL PURPOSE DUPLEX RECEPTACLE WITH 2 #10 THWN/THHN CU, 1 #10 EGC IN 3/4" C.
- 19. REMOVE EXISTING DUPLEX RECEPTACLE, TYPICAL FOR 2 IN THIS NEW OFFICE. AND REPLACE WITH NEW CONTROLLED TYPE DUPLEX RECEPTACLES AS SHOWN. ALSO, PROVIDE NEW POWER PACK ON STRUCTURE ABOVE NEW ACCESSIBLE CEILING AND PROVIDE LOW VOLTAGE (LV) OCCUPANCY SENSOR. SURFACE MOUNTED ON FLUSH MOUNTED OUTLET BOX IN NEW CEILING. PROVIDE CONCEALED POWER WIRING AND LV CABLING CONNECTIONS AS REQUIRED.
- 20. FLUSH MOUNT DEVICES IN WALL AT ACCESSIBLE LOCATION. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT PRIOR TO ROUGH-IN.
- 21. FLUSH MOUNT DEVICES IN WALL ABOVE COUNTERTOP. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT PRIOR TO ROUGH-IN.
- 22. FLUSH MOUNT DEVICES IN ACT CEILING. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
- 23. ELECTRIC WINCH WITH CONTROL DEVICE BELOW FOR RETRACTABLE BATTING CAGE (FURNISHED BY OTHERS AND INSTALLED BY EC). PROVIDE FLEXIBLE WIRING CONNECTION TO ELECTRIC WINCH AND CONCEALED WIRING CONNECTION TO CONTROL DEVICE. SUBMIT COMPLETE SHOP DRAWINGS SUBMITTALS, INCLUDING INSTALLATION POWER AND CONTROL WIRING DIAGRAMS. EXACT LOCATION TO BE DETERMINED IN THE FIELD.
- 24. 2 HP, 208/1/60 PACKAGED MOTORIZED OVERHEAD DOOR (FURNISHED WITH MOTOR STARTER, DISCONNECT SWITCH, CONTROL DEVICES, ETC.). PROVIDE LIQUIDTIGHT (SEALTIGHT) FLEXIBLE WIRING CONNECTION TO THE EQUIPMENT. REFER TO FINAL APPROVED SHOP DRAWINGS SUBMITTALS FOR EXACT ELECTRICAL REQUIREMENTS. SEE EQUIPMENT NAMEPLATE RATING, ADJUST CIRCUIT BREAKER SIZE AND HOMERUN BRANCH CIRCUIT WIRING SIZE AS REQUIRED.
- 25. EWC, 120/1/60 FLUSH MOUNT GFI DUPLEX RECEPTACLE IN WALL JUST BELOW THE EQUIPMENT AT ACCESSIBLE LOCATION.

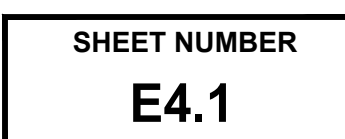


RENOVATION GENERAL NOTES

- A. SEE RENOVATION GENERAL NOTES ON SHEET E2.0 FOR ADDITIONAL INFORMATION.
- B. REFER TO FINAL APPROVED ARCHITECTURAL DEMOLITION AND RENOVATION FLOOR PLANS FOR OTHER ELECTRICAL ADDITIONAL INFORMATION, INCLUDING THE SCHEDULED PHASING WORK REQUIREMENTS AND OTHER SPECIFIC RELATED INFORMATION.
- C. THE EXACT LOCATIONS OF ALL EQUIPMENT AND DEVICES ARE CRITICAL. ELECTRICAL CONTRACTOR MUST REFER TO ARCHITECTURAL ELEVATION AND INTERIOR DIMENSIONED DRAWINGS INCLUDING FINAL APPROVED MECHANICAL, PLUMBING AND FIRE PROTECTION SYSTEM (MPPF) DRAWINGS FOR THE EXACT LOCATION AND MOUNTING HEIGHT OF ALL EQUIPMENT, DEVICES, ETC. PRIOR TO ROUGH-IN. IF THERE ARE CONFLICTS BETWEEN THIS SET OF DRAWINGS AND ARCHITECTURAL / MPPF DRAWINGS REGARDING LOCATIONS OF ALL ELECTRICAL EQUIPMENT AND DEVICES, ELECTRICAL CONTRACTOR MUST NOTIFY THE GC IMMEDIATELY FOR RESOLUTION.
- D. SEE FINAL APPROVED MECHANICAL, PLUMBING AND FIRE PROTECTION PLANS FOR EXACT LOCATION OF ALL EQUIPMENT, DEVICES, CONTROL PANEL, ETC. AND OTHER ASSOCIATED ITEMS.
- E. EC SHALL COORDINATE WITH OTHER TRADES FOR ITEMS IN THEIR SCOPE OF WORK WHICH WOULD REQUIRE ELECTRICAL WORK (DISCONNECTION, RECONNECTION, ETC.) AND ARE NOT INDICATED IN THE ELECTRICAL PLANS.
- F. ALL EXISTING LOW VOLTAGE SYSTEMS TELECOMMUNICATION BACKBOARD WITH EQUIPMENT, DEVICES, ETC. TO REMAIN AND SHALL REMAIN OPERATIONAL DURING THE ENTIRE DURATION OF THIS NEW DEMOLITION AND RENOVATION WORK.
- G. SEE ELECTRICAL SPECIFICATIONS AND GENERAL NOTES ON SHEETS E0.2, E0.3 AND E0.4 FOR ADDITIONAL INFORMATION.
- H. SEE PARTIAL FIRE ALARM SYSTEM RISER DIAGRAM AND GENERAL NOTES ON SHEET E6.2 FOR ADDITIONAL INFORMATION.
- I. SEE LOW VOLTAGE SYSTEMS GENERAL NOTES ON SHEET E0.2 FOR ALL LOW VOLTAGE SYSTEMS PROVISIONS, WORK REQUIREMENTS AND ADDITIONAL INFORMATION.
- J. EC SHALL FIELD VERIFY AND COORDINATE WITH GC FOR THE EXACT QUANTITY, LOCATION AND MOUNTING HEIGHT OF ALL WIRING DEVICES PRIOR TO ROUGH-IN.
- K. EC SHALL FIELD VERIFY AND COORDINATE WITH GC FOR THE EXACT ELECTRICAL REQUIREMENTS FOR ALL PANIC DOORS.
- L. EC SHALL COORDINATE WITH OWNER REPRESENTATIVE FOR ALL OTHER EXISTING EQUIPMENT, DEVICES, ETC. INCLUDING EXISTING LOW VOLTAGE SYSTEMS EQUIPMENT, DEVICES, ETC. NOT SHOWN IN THE ELECTRICAL PLANS WHICH MIGHT NEED EXPANSION, MODIFICATION AND/OR RELOCATION. EC SHALL PROVIDE NEW OUTLET BOXES, PULLBOXES, EMPTY CONDUITS, ETC., INCLUDING ALL REQUIRED POWER AND LOW VOLTAGE SYSTEM WIRING AND CABLE CONNECTION AS NEEDED FOR COMPLETE INSTALLATION AND SATISFACTORY OPERATION OF THESE EXISTING ITEMS. EC SHALL FIELD VERIFY WITH OWNER REPRESENTATIVE FOR ALL THE EXACT ITEMS TO BE REMOVED AND RELOCATED PRIOR TO REMOVAL.

RENOVATION KEYNOTES

- 1. EXISTING MAIN TELECOM BACKBOARD, EQUIPMENT, DEVICES, ETC. TO REMAIN, INCLUDING ALL ASSOCIATED ITEMS. PROVIDE NEW LOW VOLTAGE SYSTEMS CABLES TO MATCH EXISTING CABLES IN REQUIRED CONDUITS FOR ALL NEW LOW VOLTAGE SYSTEMS EQUIPMENT AND DEVICES LOCATED IN NEW BUILDING ADDITION AREAS, OFFICE 104 AND ADJACENT WORK STATION. SEE LOW VOLTAGE SYSTEMS GENERAL NOTES ON SHEET E0.2 FOR NEW WORK REQUIREMENTS AND ADDITIONAL INFORMATION.
- 2. EXISTING FIRE ALARM CONTROL PANEL (FACP), SMOKE DETECTOR, ETC. TO REMAIN, INCLUDING ALL ASSOCIATED POWER AND LOW VOLTAGE SYSTEMS WIRING AND CABLEING. SEE PARTIAL FIRE ALARM SYSTEM RISER DIAGRAM AND GENERAL NOTES ON SHEET E6.2 FOR ADDITIONAL INFORMATION.
- 3. ALL EXISTING LV SYSTEMS EQUIPMENT, DEVICES, ETC. IN THIS AREA AND ADJACENT AREAS TO REMAIN, UNLESS OTHERWISE NOTED.
- 4. EXISTING SOUND SYSTEM EQUIPMENT, DEVICES, ETC. TO REMAIN, INCLUDING ALL ASSOCIATED ITEMS. SEE LV SYSTEMS GENERAL NOTES ON SHEET E0.2 FOR NEW WORK, EXPANSIONS/MODIFICATIONS AND ADDITIONAL INFORMATION.
- 5. PROVIDE NEW DEVICE TO MATCH EXISTING TELE/DATA DEVICE WITH NEW LOW VOLTAGE SYSTEM CABLEING IN 3/4" C. PROVIDE NEW LABELING ON NEW TELE/DATA DEVICE PER BUILDING FACILITY STANDARDS AND SPECIFICATIONS.
- 6. PROVIDE THREE POSITION SPEAKER SELECTOR SWITCH, FLUSH MOUNTED IN WALL CL AT 48" AFF. TO SELECT "a", "b" OR BOTH SETS OF CEILING MOUNTED SPEAKERS AS SHOWN. THREE POSITION SWITCH SHALL FUNCTION WITH OWNER FURNISHED SOUND SYSTEM AMPLIFIER. PROVIDE INPUT JACK ON THE SAME WALL PLATE FOR INPUT JACK CONNECTION OF EXTERNAL DEVICE. PROVIDE APPROVED SYSTEMS CABLEING INTERCONNECTION BETWEEN SELECTOR SWITCHES LOCATED IN MULTIPURPOSE ROOM A AND MULTIPURPOSE ROOM B AS REQUIRED PER OWNER REQUIREMENTS AND SPECIFICATION. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OWNER REPRESENTATIVE FOR THE EXACT REQUIREMENTS AND SPECIFICATIONS PRIOR TO COMMENCING ANY WORK. SUBMIT A COMPLETE SHOP DRAWINGS SUBMITTALS INCLUDING INSTALLATION WIRING DIAGRAMS FOR OWNER REPRESENTATIVE, ARCHITECT AND ENGINEER REVIEW AND APPROVAL.
- 7. FLUSH MOUNT DEVICES IN WALL AT ACCESSIBLE LOCATION BEHIND FUTURE DISPLAY SCREEN. EC SHALL COORDINATE WITH GC FOR THE EXACT LOCATION AND MOUNTING HEIGHT PRIOR TO ROUGH-IN. SEE LV SYSTEMS GENERAL NOTES ON SHEET E0.2 FOR ELECTRICAL REQUIREMENTS AND ADDITIONAL INFORMATION.
- 8. NEW FIRE ALARM MANUAL PULL STATION TO MATCH EXISTING DEVICE. PROVIDE NEW TRANSPARENT PLASTIC COVER TO MATCH EXISTING COVER.
- 9. FOR LOW VOLTAGE SYSTEMS CABLES, PROVIDE (1) -4" AND (2) -2" EMPTY CONDUITS WITH PULLWIRES FROM EXISTING MAIN TELEPHONE BACKBOARD TO NEW TELECOM BACKBOARD (TBB) LOCATED AT MEZZANINE 201. PROVIDE PULLBOXES AS REQUIRED. EC SHALL FIELD VERIFY AND COORDINATE WITH LOW VOLTAGE SYSTEMS CONTRACTOR FOR THE EXACT SIZE AND QUANTITY OF CONDUITS PRIOR TO ROUGH-IN. EXACT ROUTING LOCATION OF CONDUITS SHALL BE DETERMINED IN THE FIELD.
- 10. TERMINATE CONDUITS AT 12" ABOVE MECHANICAL PLATFORM FINISHED FLOOR BELOW NEW TBB. SEE KEYNOTE #1 ON SHEET E4.1 FOR LOCATION AND ADDITIONAL INFORMATION.
- 11. CUT EXISTING CONCRETE SIDEWALK AS NEEDED FOR NEW UNDERGROUND EMPTY CONDUITS PROVISION FOR ALL NEW MECHANICAL EQUIPMENT CONTROL CONDUCTORS. FIELD VERIFY AND COORDINATE WITH MECHANICAL CONTRACTOR FOR THE EXACT SIZE AND QUANTITY OF EMPTY CONDUITS, INCLUDING ALL CONDUITS' TERMINATION LOCATIONS AND ADDITIONAL ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN.
- 12. PROVIDE NEW PENDANT/SURFACE MOUNTED SPEAKER IN THIS ROOM TO MATCH EXISTING SPEAKERS LOCATED IN EXISTING GYMNASIUM 105 OR LOBBY 101. PROVIDE APPROVED LOW VOLTAGE SYSTEM CABLEING CONNECTION TO NEW SOUND/PAGING SYSTEM EQUIPMENT, DEVICES, ETC. SEE LOW VOLTAGE SYSTEMS GENERAL NOTES ON SHEET E0.2 FOR NEW EQUIPMENT, DEVICES, ETC. PROVISIONS AND OTHER ADDITIONAL INFORMATION.
- 13. PROVIDE NEW SPEAKER, RECESSED MOUNTED IN THIS ROOM TO MATCH EXISTING SPEAKERS LOCATED IN EXISTING LOBBY 101. PROVIDE APPROVED LOW VOLTAGE SYSTEM CABLEING CONNECTION TO THE NEAREST AVAILABLE EXISTING SOUND/PAGING SYSTEM SPEAKERS CIRCUIT (FIELD VERIFY). MODIFY AND/OR EXPAND EXISTING SOUND/PAGING EQUIPMENT IF NECESSARY.
- 14. PROVIDE NEW PENDANT/SURFACE MOUNTED MUSIC SPEAKER IN THIS ROOM TO MATCH EXISTING MUSIC SPEAKERS LOCATED IN EXISTING GYMNASIUM 105. PROVIDE APPROVED LOW VOLTAGE SYSTEM CABLEING CONNECTION AS REQUIRED.



PROGRAMMABLE LIGHTING CONTROL PANEL "LCP" SCHEDULE					
		LOAD DESCRIPTION	VOLTAGE	SWITCH ID	CONTROL
		LIGHTING - CORRIDOR 128 AND CIRCULATION 128	120	a	MANUAL "ON", TIME CLOCK "OFF"
		LIGHTING - MULTI-PURPOSE ROOM 140	120	b	MANUAL "ON", TIME CLOCK "OFF"
		LIGHTING - MULTI-PURPOSE ROOM 141	120	c	MANUAL "ON", TIME CLOCK "OFF"
		LIGHTING - PRESCHOOL GYM 137	120	e	MANUAL "ON", TIME CLOCK "OFF"
		LIGHTING - TRAINING BOX 134	120	f	MANUAL "ON", TIME CLOCK "OFF"
		LIGHTING - TRAINING BOX 134	120	g	MANUAL "ON", TIME CLOCK "OFF"
		LIGHTING - MECHANICAL PLATFORM	120	h	MANUAL "ON", TIME CLOCK "OFF"
		LIGHTING - EXTERIOR	120	-	TIMECLOCK "ON", TIME CLOCK "OFF"
LIGHTING CONTROL PANEL (MODEL # ILC-AP3-8) SHALL HAVE ASTRONOMIC TIMECLOCK AND DIGITAL MODEM IN NEMA-1 ENCLOSURE WITH LOCKABLE DOOR. SEE LIGHTING CONTROL PANEL (LCP) NOTES, THIS SHEET, FOR ADDITIONAL INFORMATION.					

LIGHTING CONTROL PANEL (LCP) NOTES	
PROVIDE COMPLETE LIGHTING CONTROL SYSTEM AND LIGHTING CONTROL PANEL (LCP). LCP SHALL BE 20A, 8P CIRCUITS, PROGRAMMABLE WITH ASTRONOMIC TIMECLOCK, 120V COIL IN NEMA-1 ENCLOSURE WITH LOCKABLE DOOR, SURFACE MOUNTED ON PLYWOOD BACKBOARD. LIGHTING CONTROL PANEL SHALL INCLUDE THE FOLLOWING: 1. OVERRIDE PUSHBUTTON AND ALL ASSOCIATED CONTROL WIRING. 2. TWO LOW VOLTAGE (4) - BUTTON OVERRIDE SWITCHES (a, b, c, d (Master) AND (e, f, g, h) SHALL ALLOW AN OCCUPANT TO KEEP THE LIGHTS ON FOR ADDITIONAL TWO (2)-HOURS AND SHALL HAVE A PILOT LIGHT NEATLY LABELED DESCRIBING THE AREA IT CONTROLS. 3. ALL COMPONENTS SHALL BE FROM THE SAME MANUFACTURER. 4. COORDINATE EXACT TIME SETTING WITH THE OWNER. 5. PROVIDE PHOTOCELL DEVICE MOUNTED AT EAVE (NORTH WALL) FACING NORTH. 6. PROVIDE LOW VOLTAGE CONCEALED CABLING CONNECTION TO LOW VOLTAGE SWITCHES. SEE LIGHTING CONTROL PANEL (LCP) SCHEDULE, THIS SHEET, FOR ADDITIONAL INFORMATION.	

LUMINAIRES SCHEDULE									
TAG	TYPE	MANUFACTURER	CATALOG NUMBER	VOLT	LAMP	WATTS	LUMENS	INSTALLATION	REMARKS
A	2X4 LED LAY-IN GRID TROFFER	H.E. WILLIAMS	PT-24-L38-835-RA-DIM-UNV	120	LED/3500K	31	3,800	RECESSED	
AE	2X4 LED LAY-IN GRID TROFFER WITH EMERGENCY BATTERY PACK (1400 LUMENS)	H.E. WILLIAMS	PT-24-L38-835-RA-EM/10W-DIM-UNV	120	LED/3500K	31	3,800	RECESSED	
B	LED HIGH-BAY	ILP	HHB-65WLED-UNIV-40-FRL	120	LED/3500K	65	8,515	PENDANT	
BE	LED HIGH-BAY W/ EMERGENCY BATTERY PACK (1600 LUMENS)	ILP	HHB-65WLED-EM/10W-UNIV-40-FRL	120	LED/3500K	65	8,515	PENDANT	
C	LED DOWNLIGHT WITH LENS	LUMINAIRE	ARV13-25W-3500K-120-OP-WHT	120	LED/3500K	27.5	2,358	SURFACE	
CE	LED DOWNLIGHT WITH INTEGRAL EMERGENCY BATTERY PACK UNIT	LUMINAIRE	ARV13-25W-3500K-120-OP-WHT-EMB310	120	LED/3500K	27.5	2,358	SURFACE	
D	ROUND CYLINDER DOWNLIGHT	LITON	LCALD6-350-B70-T35 (FINISH TO MATCH EXISTING)	120	LED/3500K	43.28	3,700	PENDANT	
DE	ROUND CYLINDER DOWNLIGHT W/ INTEGRAL EMERGENCY BATTERY PACK (1400 LUMENS)	LITON	LCALD6EM-350-B70-T35 (FINISH TO MATCH EXISTING)	120	LED/3500K	43.28	3,700	PENDANT	
E	LED HIGH-BAY	ILP	HHB-135WLED-UNIV-40-FRL	120	LED/3500K	132.1	15,529	PENDANT W/ SAFETY CHAIN	
EE	LED HIGH-BAY W/ EMERGENCY BATTERY PACK (1600 LUMENS)	ILP	HHB-135WLED-EM/12W-UNIV-40-FRL	120	LED/3500K	132.1	15,529	PENDANT W/ SAFETY CHAIN	
FE	LED WALL PACK W/ INTEGRAL EMERGENCY BATTERY PACK (1400 LUMENS), WET LOCATION	TO MATCH EXISTING	TO MATCH EXISTING (FIELD VERIFY)	120	LED/3500K	80	TO MATCH EXISTING	SURFACE	
GE	LED DOWNLIGHT WITH LENS & WITH INTEGRAL EMERGENCY BATTERY PACK UNIT, WET LOCATION	LUMINAIRE	ARV13-25W-3500K-120-OP-WHT-EMB310	120	LED/3500K	37.5	2,358	SURFACE	
X	LED SINGLE FACE EXIT LIGHT W/ RED LETTERS WITH EMERGENCY BATTERY PACK UNIT	CHLORIDE	CLXNRW	120	LED	5	-	SURFACE UNIVERSAL	
X2	LED DOUBLE FACE EXIT LIGHT W/ RED LETTERS WITH EMERGENCY BATTERY PACK UNIT	CHLORIDE	CLXNRW	120	LED	5	-	SURFACE UNIVERSAL	

- GENERAL NOTES:
- NO SUBSTITUTION.
 - ALL FIXTURES TO BE PROVIDED WITH LAMPS INSTALLED.
 - ALL FIXTURES TO BE PROVIDED WITH REQUIRED MOUNTING HARDWARE FOR INSTALLATION TYPE SHOWN.
 - SEE LIGHTING FLOOR PLAN FOR EXIT LIGHTS' DIRECTIONAL ARROW(S) INDICATION.
 - ALL FINISH SHALL BE BY ARCHITECT.

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CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THESE DRAWINGS COMPLY WITH ALL APPLICABLE CODES AND RELEVANT BUILDING CODES.

FGA PROJECT NUMBER
18015

ISSUE DATE
11/07/18

SHEET NUMBER
E5.1

ELECTRICAL SCHEDULES AND NOTES

A1
NTS

9	2	17667	AHU-1 (UNIT HEATER)	200	3	7	A	8	70	3	CHILLED WATER PUMP P-2	3867		
		17667	(EXISTING MECHANICAL PLATFORM)			7	A	10			(NEW CHILLER YARD)	3867		2
9	2	17667				11	C	12				3867		
		22373	CHILLER CH-1	300	3	13	A	14	150	3	PANEL "D" - SHATE PARK (ETR)	9968	2	
		22373	(NEW CHILLER YARD)			15	B	16				9968		
		22373				17	C	18				9968		
9	2	22373	CHILLER CH-2	300	3	19	A	20	20	2	SITE LIGHTING (ETR)	450	2	
		22373	(NEW CHILLER YARD)			21	B	22				450		
		22373				23	C	24	20	2	SITE LIGHTING (ETR)	700	2	
		700	SITE LIGHTING (ETR)	20	2	25	A	26				700		
2		950	SITE LIGHTING (ETR)	20	2	27	B	28	20	2	SITE LIGHTING (ETR)	700	2	
		950	SITE LIGHTING (ETR)	20	2	29	C	30				700		
2		950	SITE LIGHTING (ETR)	20	2	31	A	32	60	3	RTU-2 (ETR)	5100	2	
		700	SITE LIGHTING (ETR)	20	2	33	B	34				5100		
		700	SITE LIGHTING (ETR)			35	C	36				5100		
2		200	SPD (TVSS) (ETR)	20	3	37	A	38	175	3	RTU-3 (ETR)	14787	2	
		200				39	B	40				14787		
		200				41	C	42				14787		
2		5100	RTU-1 (ETR)	60	3	43	A	44	225	3	PANEL "A" (ETR)	15002	2	
		5100				45	B	46				13770		
		5100				47	C	48				14174		
8		35891	PANEL "E"	600	3	49	A	50	225	3	PANEL "B" (ETR)	13197	2	
		31242				51	B	52				13186		
						53	C	54				12523		
						55	A	56	225	3	PANEL "C" (ETR)	14083	3	
						57	B	58				16081		
						59	C	60				10797		
			MAIN CIRCUIT BREAKER (NEW)	1200	3									

2	5	M 3867	AHU-1 (BLOWER FAN MOTOR)	70	3	7	A	8	25	3	AHU-2 (BLOWER FAN MOTOR)	1321	M	6	2
		M 3867	(EXISTING MEZZANINE)			9	B	10				(EXISTING MEZZANINE)	1321		
		M 3867				11	C	12							
2		E 2300	HAND DRYER - RM 109	25	1	13	A	14	20	1	LIGHTS - RM 106, 107, 108, 109	671	L		2, 3
		E 2300	HAND DRYER - RM 110	25	1	15	B	16	20	1	LIGHTS - RM 110, 111, 112, 113	753	M		2, 3
2		E 2300	HAND DRYER - RM 111	25	1	17	C	18	20	2	WALL PACK LIGHTS-EXTERIOR WALL	310	L		2, 3
		R 720	RECEPTACLES - RM 105	20	1	19	A	20				310	L		
		R 900	RECEPTACLES - RM 106, 108	20	1	21	B	22	30	1	ICE MACHINE - SNACK BAR	2496	E		2
		R 540	RECEPTACLES - RM 107	20	1	23	C	24				2496	E		
		R 360	RECEPTACLES - EXTERIOR	20	1	25	A	26	50	2	WATER HEATER - MEZZANINE	4160	E		2
		R 720	FLOORBOX RECEPTACLES - RM 105	20	1	27	B	28				4160	E		2
2		E 720	DOC CONTROL PANEL-MEZZANINE	20	1	29	C	30	20	1	PUMP PUMP	1176	M		2
			SPACE			31	A	32	20	1	RECEPTACLES - MEZZANINE	540	R		2
			SPACE			33	B	34			1 SPACE				
			SPACE			35	C	36	1	SPACE					
			SPACE			37	A	38	1	SPACE					
			SPACE			39	B	40	1	SPACE					
			SPACE			41	C	42	1	SPACE					

	TYPE	CONNECTED LOAD (VA)	NEC DEMAND FACTOR	NEC DEMAND LOAD (VA)	
R	RECEPTACLES<10KVA	3960	1.00	3960	PHASE A LOAD = 16096 VA
R	RECEPTACLES<10KVA		0.50		
L	LIGHTING	2094	1.25	2558	PHASE B LOAD = 18194 VA
M	LARGEST MOTOR	-11601	0.25	-2900	
	MOTORS	15564	1.00	15564	PHASE C LOAD = 14397 VA
H	HEATING	5000	1.25	6250	
				NEC DEMAND LOAD =	143 A

		SPACE	1	1	A	2	400	3	PANEL 4"	30055	
		SPACE	1	3	B	4			(MECHANICAL PLATFORM)	30055	
		SPACE	1	5	C	6				25170	
3	L	451 LIGHTING-CORRIDORS 128 & 129	20	1	7	A	8	30	3	SPD	200
3	L	351 LITE -MULTI-PURPOSE RM 140	20	1	9	B	10				200
3	L	423 LITE -MULTI-PURPOSE RM 141	20	1	11	C	12				200
3	L	1454 LIGHTING - PRESCHOOL GYM 137	20	1	13	A	14	20	1	RECEPT - RM 128,140	1080
3	L	824 LIGHTING - TRAINING BOX 130	20	1	15	B	16	20	1	RECEPT - RM 140,141,142,143,147	1080
3	L	793 LIGHTING - TRAINING BOX 130	20	1	17	C	18	20	1	RECEPT - RM 129,140, 141	1080
3	L	240 LIGHTING - MEZZANINE	20	1	19	A	20	1	RECEPT - RM 141,EXTERIOR	1260	
3	L	433 LIGHTING - EXTERIOR	20	1	21	B	22	20	1	RECEPT - RM 129,137,138,139	720
3	L	430 LTG & EXT LMT RM 129,132,134,139,141,343	20	1	23	C	24	20	1	RECEPT - RM 130,137,EXTERIOR	900
3	E	10000 TELECOM EQUIPT - MEZZANINE 201	20	1	25	A	26	20	1	RECEPT - RM 129,135,136,137	1080
3	E	10000 TELECOM EQUIPT - MEZZANINE 201	20	1	27	B	28	20	1	RECEPT - RM 129,130	720
3	E	10000 TELECOM EQUIPT - MEZZANINE 201	20	1	29	C	30	20	1	RECEPT - RM 130,137	1080
3	E	1000 TELECOM EQUIPT - MEZZANINE 201	20	1	31	A	32	20	1	RECEPT - RM 130	1080
3	E	540 DDC CONTROL PANEL - MEZZ 201	20	1	33	B	34	20	1	EWG - CONCULTATION 129	800
3	E	1080 RECEPTACES - MEZZANINE 201	20	1	35	C	36	20	1	1 SPARE	
3	E	540 F.A. POWER SUPPLY - MEZZ 201	20	1	37	A	38	20	1	1 SPARE	
E	720	COMPUTER RECEPT - RM 104	20	1	39	B	40	20	1	1 SPARE	
E	720	COMPUTER RECEPT - GYM 105	20	1	41	C	42	20	1	1 SPARE	
E	720	COMPUTER RECEPT - GYM 105	20	1	43	A	44	1	1	1 SPACE	
		SPACE	20	1	45	B	46	1	1	1 SPACE	
		SPACE	20	1	47	C	48	1	1	1 SPACE	

2	M	2102	AHU-3 (BLOWER FAN MOTOR)	40	3	7	A	8	30	3	AHU-6 (UNIT HEATER)	2667	H	2		
			(MECHANICAL PLATFORM)					9	B	10	(MECHANICAL PLATFORM)	2667	H	2		
		M	2102					11	C	12						
2	H	6000	AHU-4 (UNIT HEATER)	70	3	12	A	14		15	AHU-6 (BLOWER FAN MOTOR)	829	M	2		
		H	6000					15	B	16	(MECHANICAL PLATFORM)	829	M	2		
		H	6000					17	C	18		829	M			
2	M	2102	AHU-4 (BLOWER FAN MOTOR)	40	3	19	A	20	30	3	AHU-7 (UNIT HEATER)	2667	H	2		
		M	2102					21	B	22	(MECHANICAL PLATFORM)	2667	H	2		
		M	2102					23	C	24		2667	H	2		
2	H	7667	AHU-5 (UNIT HEATER)	30	3	25	A	26	15	3	AHU-7 (BLOWER FAN MOTOR)	829	M	2		
		H	7667					27	B	28	(MECHANICAL PLATFORM)	829	M	2		
		H	7667					29	C	30		829	M			
2	M	829	AHU-5 (BLOWER FAN MOTOR)	15	3	31	A	32	30	2	WATER HEATER	2250	E	3		
		M	829					33	B	34	(MECHANICAL PLATFORM)	2250	E	3		
		M	829					35	C	36	20	2	BAF (CEILING FAN)	1144	M	5
5	M	1435	OVERHEAD DOOR	30	2	37	A	38			(TRAINING BOX 130)	1144	M			
5	M	1435	(TRAINING BOX 130)	30	2	39	B	40	20	2	BAF (CEILING FAN)	1144	M	5		
5	M	1656	ELECTRIC WINCH- ROOM 130	30	1	41	C	42			(PRESCHOOL GYM 137)	1144	M			

TYPE		CONNECTED LOAD (VA)	NEC DEMAND FACTOR	NEC DEMAND LOAD (VA)		
R	RECEPTACLES<10KVA	-	1.00	-	PHASE A LOAD =	30055 VA
R	RECEPTACLES>10KVA	-	0.50	-	PHASE B LOAD =	30055 VA
L	LIGHTING	-	1.25	-	PHASE C LOAD =	29170 VA
M	LARGEST MOTOR	-6305	0.25	1576		
	MOTORS	29176	1.00	29176		
H	HEATING	55005	1.25	68756	NEC DEMAND LOAD =	291 A

- A. ALL EXISTING PANELBOARDS TO REMAIN. SEE EXISTING PANELBOARD SCHEDULES. THIS SHEET, FOR NEW WORK.
- B. (ETR) - INDICATES EXISTING TO REMAIN. FIELD VERIFY EXACT RATING.
- C. SEE CONDUCTOR AND CONDUIT SCHEDULE. THIS SHEET, FOR ADDITIONAL INFORMATION.
- D. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO DETERMINE THE EXISTING ROUTING AND EXACT LENGTH OF HOMERUN FEEDER AND HOMERUN BRANCH CIRCUITS WIRING. IF THE HOMERUN FEEDER AND BRANCH CIRCUITS WIRING EXCEEDED 75 FEET, THE ELECTRICAL CONTRACTOR SHALL ADJUST CONDUCTOR AND CONDUIT SIZES TO ACCORDANCE TO THE VOLTAGE DROP (2% MAX. FOR ALL FEEDERS AND 3% MAX. FOR ALL BRANCH CIRCUITS PER 2017, 6TH EDITION, FLORIDA BUILDING CODE ENERGY CONSERVATION SECTIONS 505.7.1.1 AND 505.7.3.2 RESPECTIVELY).
- E. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY FOR THE EXACT NAMEPLATE RATING OF EACH OF THE MECHANICAL AND PLUMBING EQUIPMENT, INCLUDING ALL EQUIPMENT DISCHARGES AND EXHAUSTS. IF ANY EQUIPMENT COMMENCING ANY WORK, ADJUST CIRCUIT BREAKER SIZE AND HOMERUN BRANCH CIRCUIT WIRING SIZE IF NEEDED. NOTIFY OWNER REPRESENTATIVE IMMEDIATELY FOR ANY CONFLICT OR DISCREPANCIES.
- F. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO FIELD VERIFY THE CURRENT EXISTING CONDITIONS AND LAYOUTS. EC SHALL VISIT ALL EXISTING PANELS, DEVICES, ETC. INCLUDING ALL ASSOCIATED ITEMS WHICH ARE AFFECTED BY THIS NEW DEMOLITION AND RENOVATION WORK TO ENSURE THAT ALL ITEMS ARE IN GOOD WORKING CONDITION. EC SHALL TRACE ALL EXISTING WIRING IMMEDIATELY TO CIRCUIT WIRING BACK TO THE SOURCE. EC SHALL CONTACT THE GC IMMEDIATELY FOR ANY DISCREPANCIES.

1. PROVIDE NEW PANELBOARD. SEE POWER RISER DIAGRAM ON SHEET E6.1 FOR ADDITIONAL INFORMATION.
2. PROVIDE NEW CIRCUIT BREAKER FOR NEW LOAD AS SHOWN. MAKE, TYPE AND AIC RATING OF NEW CIRCUIT BREAKER SHALL MATCH THE EXISTING CIRCUIT BREAKER. SUBMIT A COMPLETE SHOP DRAWINGS SUBMITTALS.
3. EXISTING 90A, 3P CIRCUIT BREAKER TO REMAIN TEMPORARILY FOR EXISTING AHU-1NOTE: EXISTING AHU-1 SHALL BE REMOVED AFTER THE NEW AHU-1 HAS BEEN INSTALLED COMPLETELY. EC SHALL COORDINATE WITH GC FOR THE EXACT DATE OF DEMOLITION WORK. PROVIDE NEW LABEL AS "SPACE". REMOVE EXISTING BRANCH CIRCUIT WIRING AS REQUIRED.
4. EXISTING 90A, 3P CIRCUIT BREAKER TO REMAIN TEMPORARILY FOR EXISTING AHU-2NOTE: EXISTING AHU-2 SHALL BE REMOVED AFTER THE NEW AHU-2 HAS BEEN INSTALLED COMPLETELY. EC SHALL COORDINATE WITH GC FOR THE EXACT DATE OF DEMOLITION WORK. PROVIDE NEW CIRCUIT BREAKER AS SHOWN. REMOVE EXISTING BRANCH CIRCUIT WIRING AND PROVIDE NEW HOMERUN BRANCH CIRCUIT WIRING AS REQUIRED.
5. EXISTING 80A, 3P CIRCUIT BREAKER TO REMAIN TEMPORARILY FOR EXISTING CU-1NOTE: EXISTING CU-1 SHALL BE REMOVED AFTER THE NEW CHILLERS HAVE BEEN INSTALLED COMPLETELY. EC SHALL COORDINATE WITH GC FOR THE EXACT DATE OF DEMOLITION WORK. PROVIDE NEW CIRCUIT BREAKER AS SHOWN. REMOVE EXISTING BRANCH CIRCUIT WIRING AND PROVIDE NEW HOMERUN BRANCH CIRCUIT WIRING AS REQUIRED.
6. SAME AS KEYNOTE #5 ABOVE EXCEPT, FOR EXISTING CU-2.
7. MOUNT CIRCUIT BREAKER AT THE TOP AND LABEL CIRCUITS 2.4.6 AS "SPACE".
8. EXISTING CIRCUIT BREAKER (SIZE AS SHOWN) TO REMAIN FOR NEW PANELBOARD AS INDICATED. SEE PANEL "E" SCHEDULE, THIS SHEET, FOR DETAILS. CLEAN, REFURBISH AND TEST EXISTING CIRCUIT BREAKER AS NEEDED.
9. PROVIDE NEW FEEDER. SEE EQUIPMENT CONNECTION SCHEDULE ON SHEET E5.2 FOR ELECTRICAL REQUIREMENTS. THE EXACT ROUTING AND LENGTH OF FEEDER SHALL BE DETERMINED BY THE FIELD, ADJUST FEEDERS SIZES AS REQUIRED TO ACCOMMODATE VOLTAGE DROP.
10. REMOVE EXISTING 1200A MCB (80% RATED) AND PROVIDE WITH NEW 1200A MCB (100% RATED). MAKE, TYPE AND AIC RATING OF NEW 100% RATED MCB SHALL MATCH EXISTING MCB. FIELD VERIFY THE CURRENT RATING OF THE EXISTING 1200A MCB PRIOR TO REMOVAL AND REPLACEMENT.

POWER RISER DIAGRAM GENERAL NOTES

ALL CONDUCTORS SHALL BE COPPER INCLUDING EQUIPMENT GROUNDING CONDUCTORS.

AS PART OF FINAL AND COMPLETE ELECTRICAL EQUIPMENT AND DEVICES SHOP DRAWINGS SUBMITTALS PROCESS, THE ELECTRICAL CONTRACTOR SHALL OBTAIN SERVICES OF A REGISTERED PROFESSIONAL ELECTRICAL ENGINEER WITH A MINIMUM OF 3 YEARS OF CURRENT EXPERIENCE IN THE COORDINATION OF ELECTRICAL POWER SYSTEMS TO PERFORM A SHORT CIRCUIT FAULT CURRENT STUDY AND OVERCURRENT PROTECTION COORDINATION STUDY INCLUDING THE ACTUAL DATA ON THE SPECIFIC OF THE EXISTING UTILITY PAD MOUNTED TRANSFORMER AND NEW EQUIPMENT AND DEVICES THAT WILL BE USED ON THIS PROJECT. FOR SYSTEM INSTALLER: CALIBRATION, TESTING, ADJUSTMENT, AND PLACING INTO SERVICE OF THE PROTECTIVE DEVICES SHALL BE ACCOMPLISHED BY A MANUFACTURER'S PRODUCT FIELD SERVICE ENGINEER OR INDEPENDENT TESTING COMPANY WITH A MINIMUM OF TWO YEARS OF CURRENT PRODUCT EXPERIENCE IN PROTECTIVE DEVICES.

COORDINATION STUDY: BEFORE CONSTRUCTION BEGINS FOR THIS PROJECT THAT CONTAIN ADJUSTABLE TRIP SETTINGS FOR CIRCUIT BREAKERS, THE ELECTRICAL CONTRACTOR SHALL ACCOMPLISH A TIME-CURRENT COORDINATION STUDY TO BE ABLE TO PROPERLY SET THE SETTINGS ON THE BREAKER TRIP UNITS. THE STUDY NEEDS TO BE BASED ON THE ACTUAL EQUIPMENT THAT WILL BE SUPPLIED ON THIS PROJECT. INCLUDE IN THE STUDY ALL SPECIFICATION CUT SHEETS ON THE ELECTRICAL EQUIPMENT, BREAKERS, AND TRIP UNITS BEING FURNISHED ON THIS PROJECT. THE STUDY AND THE EQUIPMENT CUT SHEETS SHALL BE PROVIDED IN A SINGLE

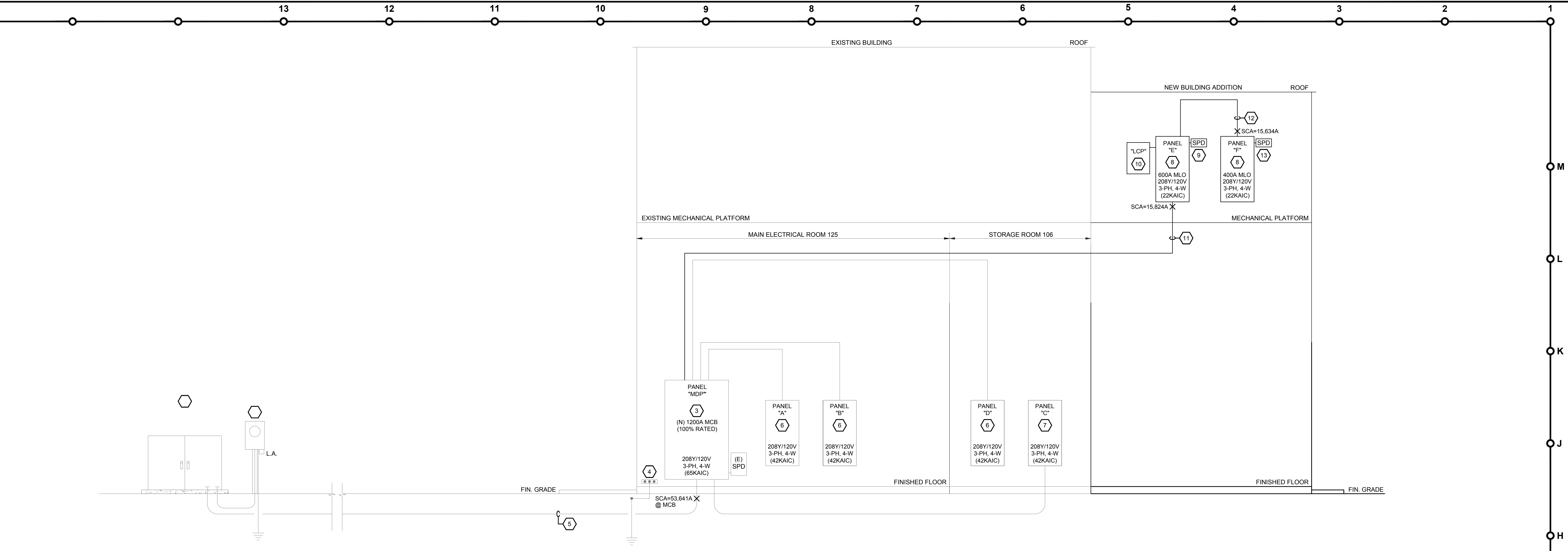
D. BOTH THE SHORT CIRCUIT STUDY AND THE TIME CURRENT COORDINATION STUDY SHALL BE PERFORMED BY THE SAME COMPANY. EITHER CONSULTING ENGINEERING SERVICES WITH THE EQUIPMENT AND DEVICES MANUFACTURER OR AN INDEPENDENT REGISTERED PROFESSIONAL ENGINEER REGULARLY ENGAGED IN PERFORMING THESE STUDIES. SPECIFY ALL EQUIPMENT MATERIAL SUBMITTALS TO BE PROVIDED WITH THE

E. ARC FLASH: THE ARC FLASH ANALYSIS WILL DETERMINE THE INCIDENT ENERGY POTENTIAL OF EACH PIECE OF ELECTRICAL DISTRIBUTION EQUIPMENT IN THIS FACILITY. BEFORE CONSTRUCTION AND CONCURRENTLY WITH THE SHORT CIRCUIT AND COORDINATION STUDY, THE CONTRACTOR SHALL PERFORM AN ARC FLASH ANALYSIS ON THE SPECIFIC EQUIPMENT BEING INSTALLED WITH THE ADJUSTABLE SETTINGS RECOMMENDED.

F. AVAILABLE FAULT CURRENT LABELING: IN LIEU OF THE MAXIMUM AVAILABLE FAULT CURRENT MARKING AS REQUIRED BY 2014 NEC 110.24, A PERMANENTLY AFFIXED LABEL SHALL BE PROVIDED WITH THE AVAILABLE FAULT CURRENT AT THE TIME OF INSTALLATION AND CALCULATION. THE LABEL SHALL BE 2" X 3" IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND. THE LABEL SHALL ALSO INCLUDE THE DATE OF THE SHORT

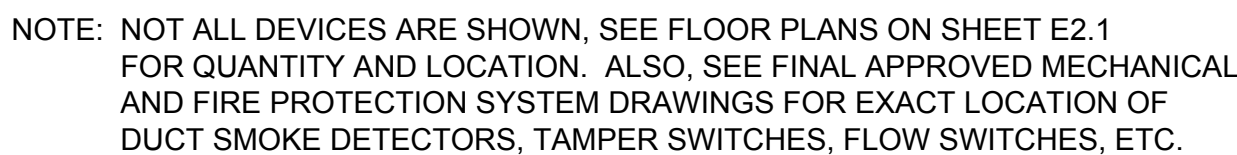
BUILDING DEMAND LOAD SUMMARY			
EXISTING BUILDING PEAK DEMAND LOAD READING PER TECO ENERGY POWER COMPANY: (MAXIMUM PEAK KW DEMAND LOAD FOR THE LAST 12 MONTHS)			
	CONNECTED KW	DEMAND KW	
LOAD DESCRIPTION			
1. EXISTING MAIN DISTRIBUTION PANEL "MDP" (MODIFICATIONS):			
EXISTING CONNECTED LOAD IS APPROXIMATE & CURRENT DEMAND LOAD IS THE MAX. PEAK READING (ABOVE), INCLUDING 125% DF FOR LIGHTING LOAD)	223.38	135.00	
ADDED NEW CHILLER CH-1 = 67.12 KW @ 100% DF	67.12	67.12	
ADDED NEW CHILLER CH-2 = 67.12 KW @ 100% DF	67.12	67.12	
ADDED NEW CHILLED WATER PUMP P-1 = 10 HP = 11.60 KW @ 100% DF	11.60	11.60	
ADDED NEW CHILLED WATER PUMP P-2 = 10 HP = 11.60 KW @ 100% DF	11.60	11.60	
ADDED NEW AHU-1 = 53.00 KW @ 100% DF	53.00	53.00	
2. EXISTING PANEL "C" (MODIFICATIONS):			
REMOVED EXISTING HEATING LOAD (AHU-1 AND AHU-2)	51.88	51.88	
REMOVED EXISTING COOLING LOAD (CU-1 AND CU-2)	46.12	00.00	
ADDED NEW AHU-1 BLOWER FAN LOAD = 10 HP = 11.60 KW @ 100%	11.60	11.60	
ADDED NEW AHU-2 HEATING LOAD = 5 KW @ 100%	5.00	5.00	
ADDED NEW AHU-2 BLOWER FAN LOAD = 3 HP = 3.96 KW @ 100%	3.96	3.96	
3. NEW PANEL "E" AND PANEL "F" (ADDITIONAL LOADS):			
GENERAL LIGHTING = 5.41 KW AT 125% DF	5.41	6.76	
RECEPTACLES = 10.08 KW (1ST 10 KW @ 100% DF, REMAINING # 50% DF)	10.00	10.40	
HEATING = 55.01 @ 100% DF	55.01	55.01	
EQUIPMENT = 14.82 KW @ 100% DF	14.82	14.82	
MOTOR = 29.18 KW @ 100% DF	29.18	29.18	
LARGEST MOTOR = 6.31 KW @ 25% DF	0.00	1.58	
TOTAL =	470.80	431.87	
431.87 KVA @ 208Y/120V, 3-PHASE, 4-WIRE = 1,199 AMPS			
ENERGY CODE COMPLIANCE STATEMENT: ELECTRICAL DESIGN CONFORMS WITH THE REQUIREMENTS OF THE CURRENT ASHRAE 90.1 - 2010 LIGHTING POWER DENSITIES.			
NEW BUILDING ADDITION (INTERIOR): TOTAL AREA = 7,528 SQUARE FEET (GYMNASIUM/FITNESS CENTER) LIGHTING CONNECTED LOAD = 5,410 WATTS (5,410 WATTS / 7,528 SQUARE FEET = 0.719 WATTS PER SQUARE FOOT) - CODE ALLOWS 0.72 WATTS PER SQUARE FOOT PER ASHRAE 90.1 - 2010 LIGHTING POWER DENSITIES.			

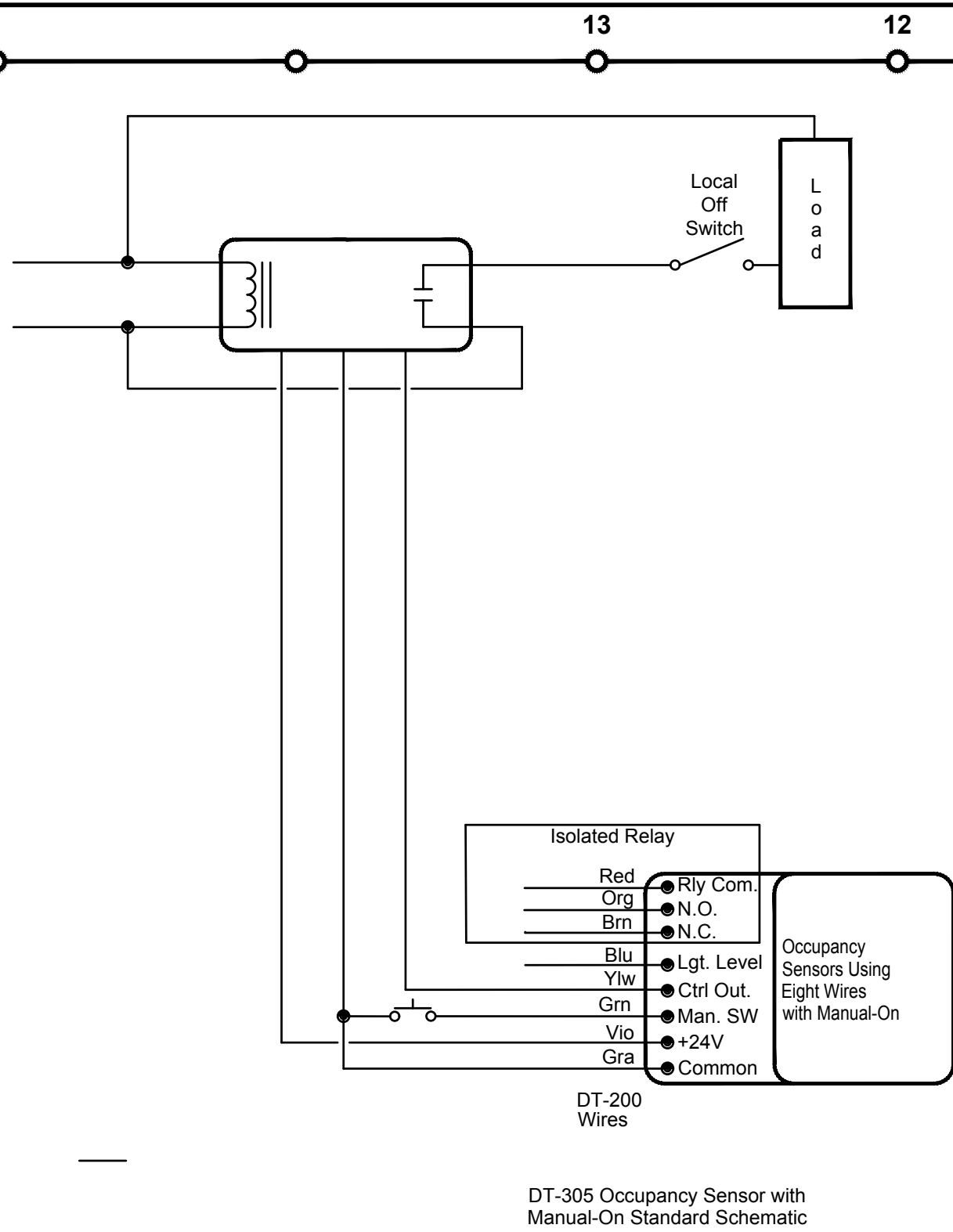
- POWER RISER DIAGRAM KEYNOTES**
- EXISTING TECO ENERGY POWER COMPANY PAD MOUNTED TRANSFORMER. ANY NEW MODIFICATION SHALL BE BY POWER COMPANY. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH TECO PROJECT ENGINEER AT THE PROJECT SITE PRIOR TO START OF CONSTRUCTION. NOTE: IF TECO INCREASES THE TRANSFORMER SIZE, THE NEXT LARGER TRANSFORMER WILL BE 500 KVA, 208Y/120V, 3-PHASE, 4-WIRE AND THE SHORT CIRCUIT FAULT CURRENT WILL BE 69,393 AMPS. CONTACT TECO ONE SOURCE @ (813) 635-1500 FOR SERVICE ORDER.
 - EXISTING C.T. METER TO REMAIN INCLUDING ALL ASSOCIATED ITEMS.
 - EXISTING MAIN DISTRIBUTION PANEL "MDP". SEE PANEL SCHEDULE MDP ON SHEET E5.3 FOR NEW WORK MODIFICATIONS AND ADDITIONAL INFORMATION.
 - EXISTING MAIN GROUNDING BUSBAR (MGB) TO REMAIN. FIELD VERIFY ALL GROUNDING AND BONDING CONNECTIONS. TIGHTEN ALL CONNECTIONS AND PROVIDE TESTING AS NEEDED.
 - REMOVE EXISTING UNDERGROUND SE FEEDER CONDUCTORS AND REPLACE WITH NEW NEW (4) - SETS OF 4-500 KCMIL THWN/THHN CU IN EACH EXISTING 3 1/2" C. NOTIFY OWNER REPRESENTATIVE IMMEDIATELY FOR ANY DISCREPANCIES.
 - EXISTING BRANCH PANELBOARD AS INDICATED TO REMAIN, INCLUDING ALL ASSOCIATED ITEMS.
 - EXISTING BRANCH PANELBOARD AS INDICATED TO REMAIN, INCLUDING ALL ASSOCIATED ITEMS. SEE PANEL SCHEDULE "C" FOR NEW MODIFICATIONS AND ADDITIONAL INFORMATION.
 - NEW BRANCH PANELBOARD AS INDICATED. SEE PANELBOARD SCHEDULE ON SHEET E5.3 FOR DETAILS.
 - BRANCH PANELBOARD SPD (PQC200), TYPE 2 SPD, 208Y/120V, 3-PHASE, 5-WIRE, 200KAIC (UL 1449-3RD EDITION), NON-MODULAR SURGE PROTECTIVE DEVICE. 100KA SURGE CURRENT RATING (L-N & L-G), STATUS INDICATIONS PER PHASE, DRY CONTACTS, PANEL-SIDE MOUNT KIT, ETC. INSTALL PER MANUFACTURER INSTRUCTIONS. SPD SHALL HAVE A TEN (10) YEAR REPLACEMENT WARRANTY.
 - PROGRAMMABLE LIGHTING CONTROL PANEL (LCP) IN NEMA-1 ENCLOSURE WITH LOCKABLE DOOR. SEE LCP SCHEDULE ON SHEET E4.1 FOR ADDITIONAL INFORMATION.
 - FEEDER: (2) - SETS OF 4-400 KCMIL THWN/THHN CU, 1 #2/0 EGC THWN/THHN CU IN EACH 3" C. THE EXACT ROUTING AND LENGTH OF FEEDERS SHALL BE DETERMINED BY EC IN THE FIELD, ADJUST FEEDERS SIZES AS REQUIRED TO ACCOMMODATE VOLTAGE DROP.
 - FEEDER: 4-500 KCMIL THWN/THHN CU, 1 #3 EGC THWN/THHN CU IN EACH 3 1/2" C.
 - BRANCH PANELBOARD SPD (PQC100), TYPE 2 SPD, 208Y/120V, 3-PHASE, 5-WIRE, 200KAIC (UL 1449-3RD EDITION), NON-MODULAR SURGE PROTECTIVE DEVICE. 100KA SURGE CURRENT RATING (L-N & L-G), STATUS INDICATIONS PER PHASE, DRY CONTACTS, PANEL-SIDE MOUNT KIT, ETC. INSTALL PER MANUFACTURER INSTRUCTIONS. SPD SHALL HAVE A TEN (10) YEAR REPLACEMENT WARRANTY.



1 ELECTRICAL POWER RISER DIAGRAM
NTS

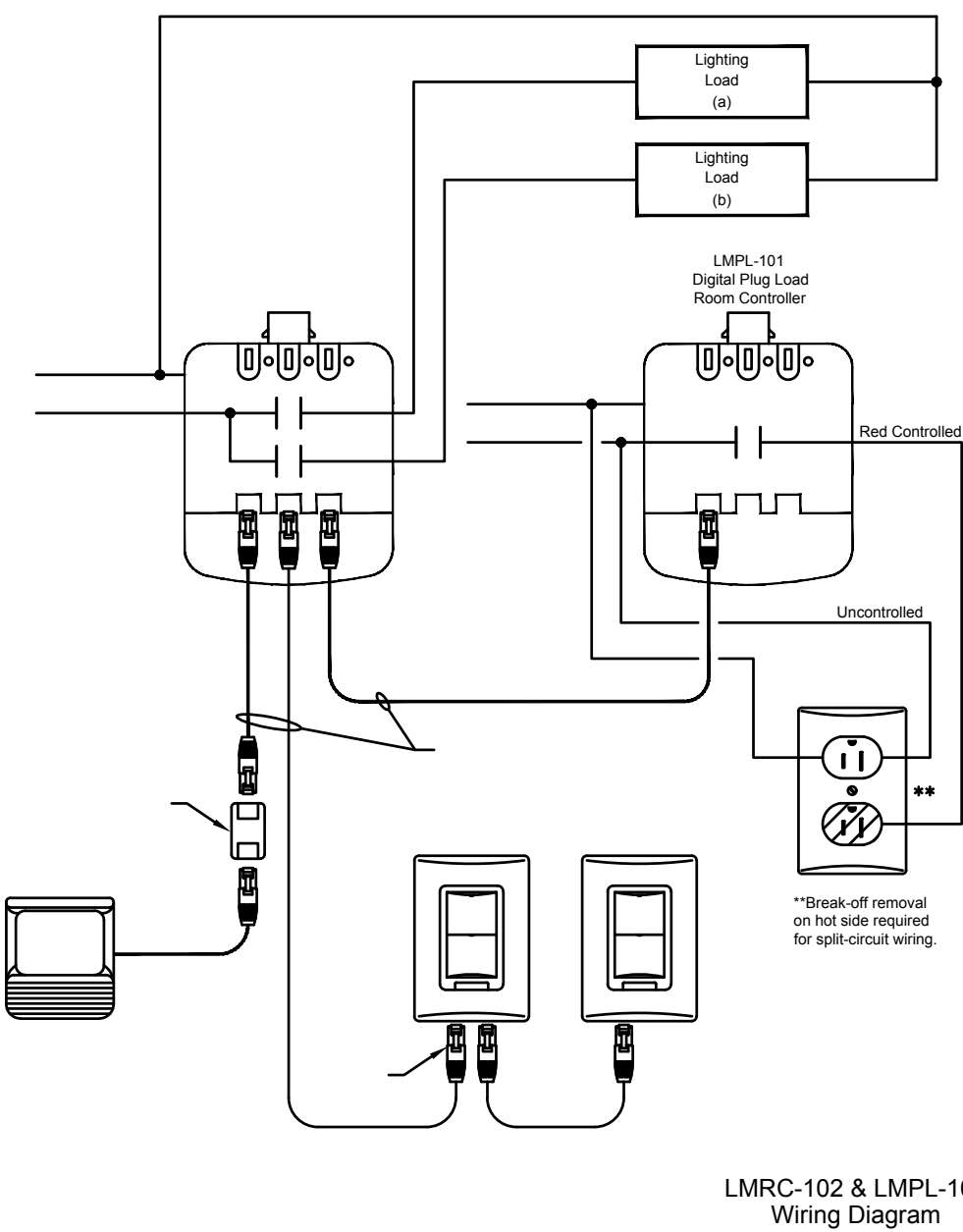
ELECTRICAL POWER RISER DIAGRAM
A1
NTS





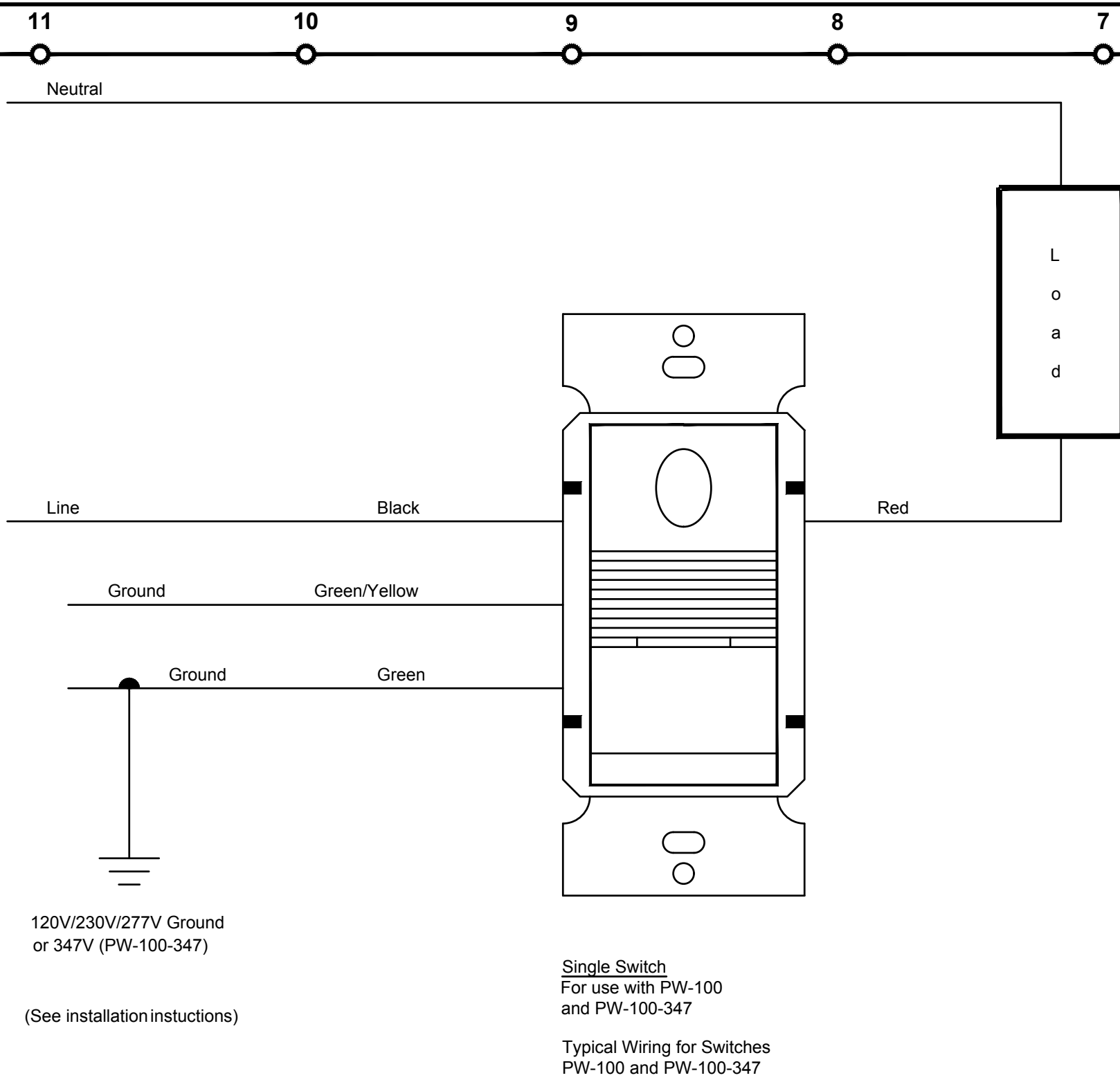
CEILING MOUNTED DUAL TECHNOLOGY
OCCUPANCY SENSOR (MAXIMUM 1000
SQ FT PER SENSOR. REQUIRES BZ-200)

CEILING MOUNTED OCCUPANCY SENSOR



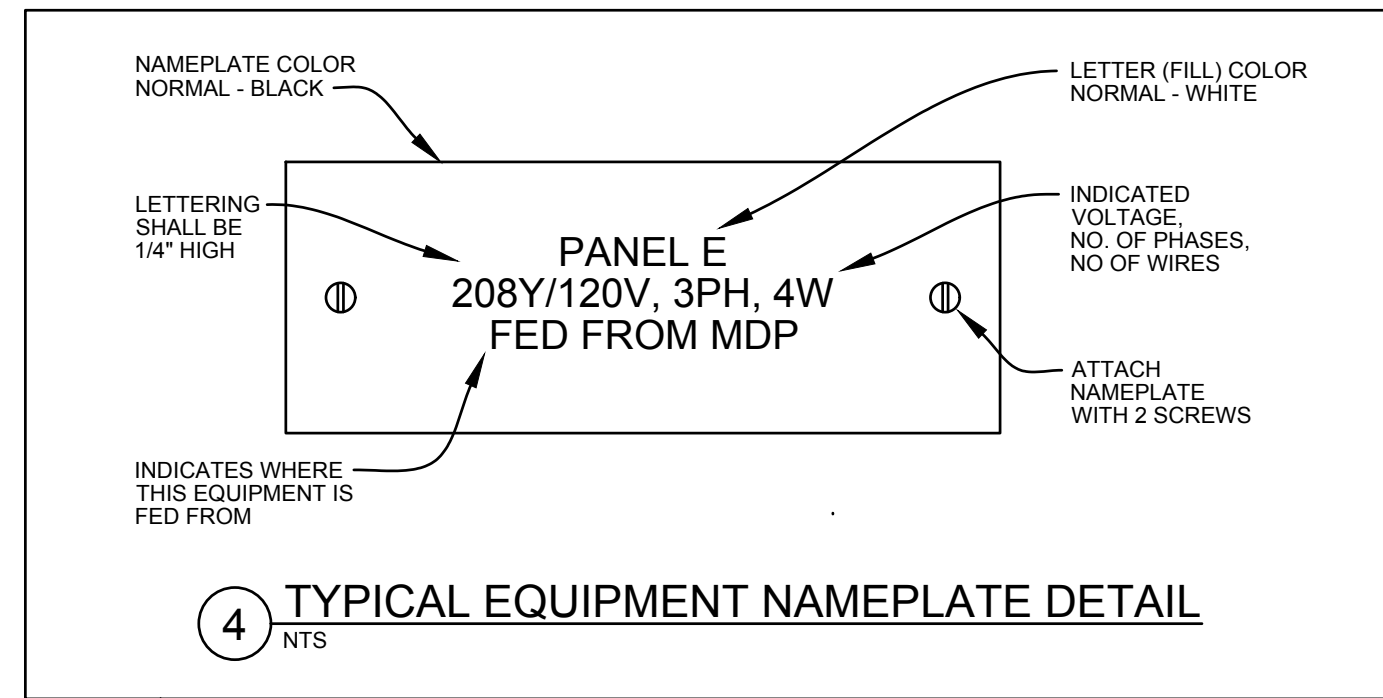
LMRC-102 & LMPL-101
Wiring Diagram

SINGLE CIRCUIT NON DIMMING LIGHTING/RECEPTACLE LOAD CONTROL

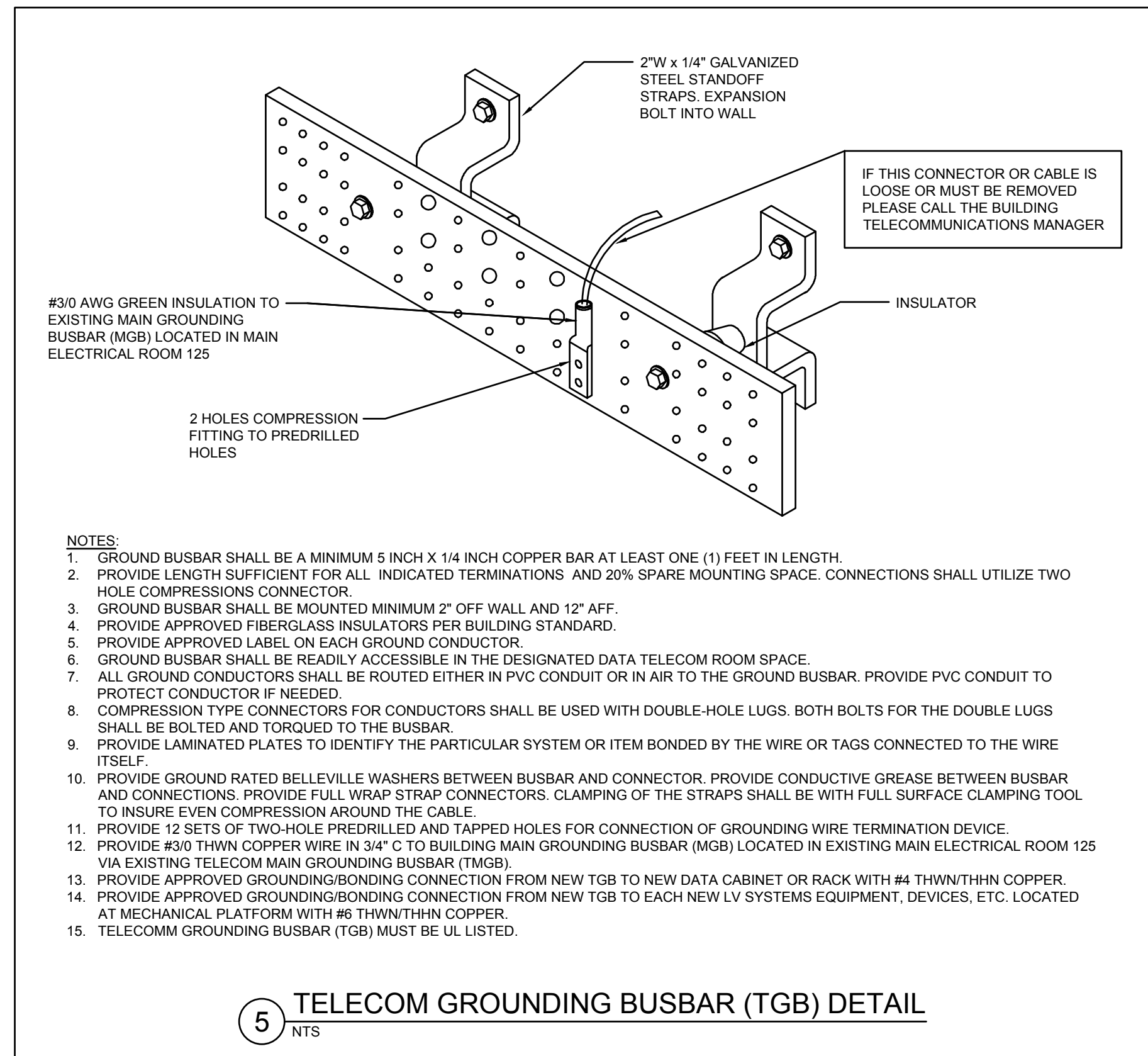


PW-101-W **OS** **DT** WALL MOUNTED OCCUPANCY
SENSOR - DUAL TECHNOLOGY

WALL MOUNTED OCCUPANCY SENSOR



TYPICAL EQUIPMENT NAMEPLATE DETAIL



TELECOM GROUNDING BUSBAR (TGB) DETAIL

ELECTRICAL DETAILS

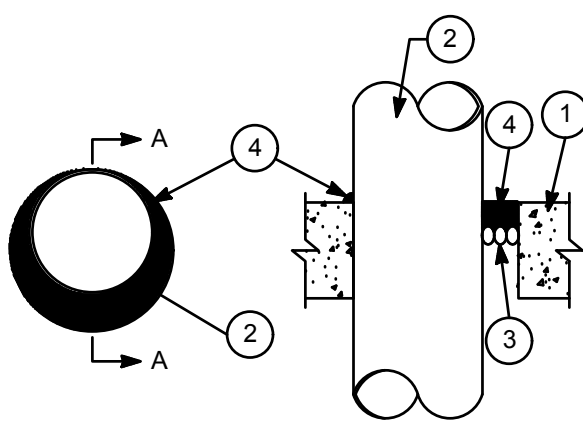
A1

FGA PROJECT NUMBER
18015

ISSUE DATE
11/07/18

SHEET NUMBER
E7.1

System No. CAJ1044
(Formerly Sytem No. 319)
F Ratings-2,3, and 4 Hr (See Items 2A and 4)
T Rating-0 Hr
L Rating At Ambient-2 CFM/sq ft
L Rating At 400 F-less than 1 CFM/sq ft



SECTION A-A

- Floor or Wall Assembly-Lightweight or normal weight (100-150 pcf) concrete. Except as noted in table under Item 4, min. thickness of solid concrete floor wall may also be constructed of any min 6 in. thick UL Classified hollow-core Precast Concrete Units*. When floor is constructed of hollow-core precast concrete units, packing material (Item 3) and caulk fill material (Item 4) to be installed symetrically on both sides of floor, flush with floor surface. Floor assembly may also be constructed of any UL Classified Concrete Blocks*. Max dia of opening is 32 in. See Concrete BLocks (CAZT) and Precast Concrete Units (CFTV) categories in the Fire Resistance Directory for names of manufacturers.
- Steel Sleeve-(Optional, not shown)-Max 15 in. ID (or smaller) Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a max of 2 in. above top of floor or beyond either surface of wall. Max 16 in. ID (or smaller) min 0.028 wall thickness (or heavier) galvanized steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a max of 1/2 in. beyond either surface of floor or wall.
- Through Penetrants-One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Max annular space between pipe, conduit or tubing and edge of through opening or sleeve is dependent on the parametes shown in Item 4. Min annular space between pipe or conduit and edge of through opening is zero in. (point contact). Pipe conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
A. Steel Pipe-Nom 30 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Iron Pipe-Nom 30 in. diam (or smaller) cast or ductile iron pipe.
C. Conduit-Nom 6 in. diam (or smaller) rigid steel conduit.
D. Conduit-Nom 4 in. diam (or smaller) steel electrical metallic tubing.
E. Copper Tubing-Nom 6 in. diam (or smaller) Type L (or heavier) copper tube.
F. Copper Pipe-Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
- Packing Material-Polyethylene backer rod or nom 1 in. thickness of tightly-packed mineral wool batt or glass fiber insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accomodate the required thickness of caulk fill material (Item 4).
- Fill, Void or Cavity Material*-Caulk-Applied to fill the annular space flush with top surface of floor. In wall assemblies, required caulk thickness to be installed symmetrically on both sides of wall, flush with wall surface. The hourly F ratings and the min required caulk thicknesses are dependent upon a number of parameters, as shown in the following table:

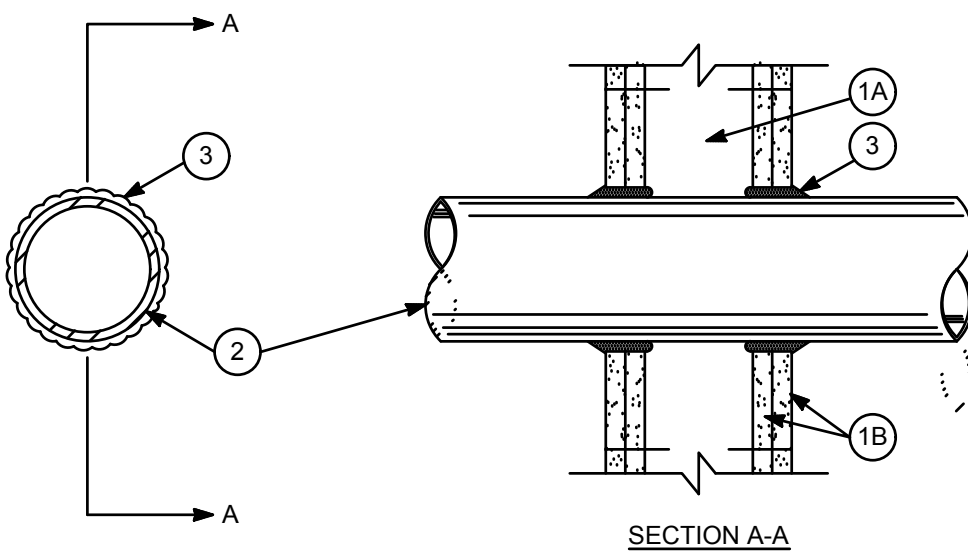
Min Floor or Wall Thknks, In	Nom Pipe Tube or Conduit Diam, In	Max Annular Space, In	Min Caulk Thkns, In	F Rating, Hr
2-1/2	1/2-12	1-3/8	1/2	2
2-1/2	1/2-12	3-1/4	1	2
4-1/2	1/2-6	1-3/8	1/4(a)	2
4-1/2	1/2-12	1-1/4	1/2	3
4-1/2	1/2-20	2	1	3
4-1/2	1/2-20	2	1	3
4-1/2	1/2-12	3-1/4	1	3
5-1/2	1/2-6	1-3/8	1(b)	4

(a)Min 2 in thickness of mineral-wool batt insulation required in annular space.
(b)Min 1 in. thickness of mineral-wool batt insulation required in annular space on both sides of floor or wall assembly. Min 1 in. thickness of caulk to be installed flush with each surface of floor or wall assembly.

Minnesota Mining & Manufacturing Co.-CP 25WB+.
*Bearing the UL Classification Marking

1 CONCRETE CONDUIT PENETRATION DETAIL
NOT TO SCALE

System No. WL1001
(Formerly Sytem No. 147)
F Ratings-1,2,3 and 4 Hr (See Items 2 and 3)
T Rating-0,1,2,3, and 4 Hr (See Item 3)
L Rating At Ambient-less than 1 cfm/SQ. FT.
L Rating At 400 F-less than 1 CFM/sq ft



SECTION A-A

- Wall Assembly-The 1,2,3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. Studs-Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.
B. Wallboard, Gypsum*-Nom 1/2 or 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 13-1/2 in.
- Pipe or Conduit-Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe, nom 12 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. diam (or smaller) Class 50 (or heavier) ductile iron pressure pipe, nom 6 in. diam (or smaller) steel conduit, nom 4 in. diam (or smaller) steel electrical metallic tubing, nom 6 in. diam (or smaller) Type L or (or heavier) copper tubing or nom 1 in. diam (or smaller) flexible steel conduit. When copper pipe is used, max F rating of firestop system (item 3) is 2 h. Steel pipes or conduits larger than nom 4 in. diam may only be used in walls constructed using steel channel studs. A max of one pipe or conduit is permitted in the firestop system. Pipe or conduit to be installed near center of stud cavity width and to be rigidly supported on both sides of wall assembly.
- Fill, Void or Cavity Material*-Caulk-Caulk fill material installed to completely fill annular space between pipe or conduit and gypsum wallboard and with a min 1/4 diam bead if caulk applied to perimeter of pipe or conduit at its egress from the wall. Caulk installed symmetrically on both sides of wall assembly. The hourly F rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

2 DRYWALL CONDUIT PENETRATION DETAIL
NOT TO SCALE

ELECTRICAL DETAILS

A1
NTS

NEW TAMPA
RECREATION CENTER
ADDITION
TAMPA, FL 33647

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CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THESE DRAWINGS COMPLY WITH ALL APPLICABLE CODES AND RELEVANT BUILDING CODES.

FGA PROJECT NUMBER
18015

ISSUE DATE
11/07/18

SHEET NUMBER
E7.2

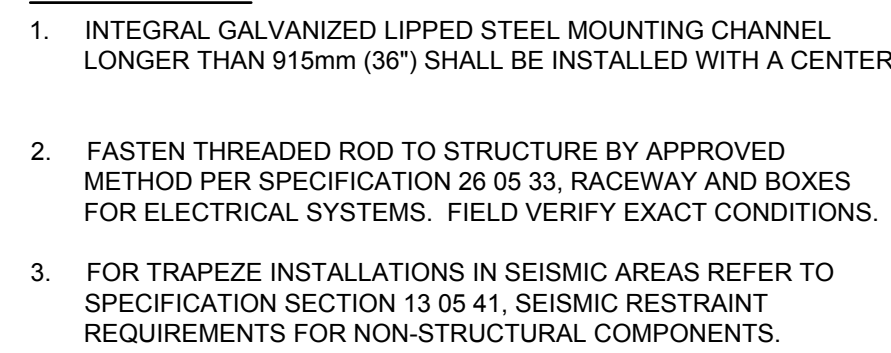


ARCHITECTURE • PLANNING • INTERIOR DESIGN

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project #18-051



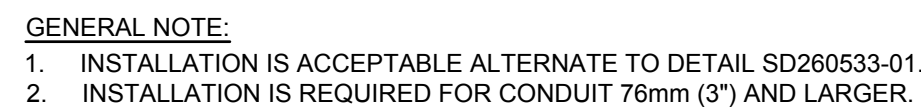
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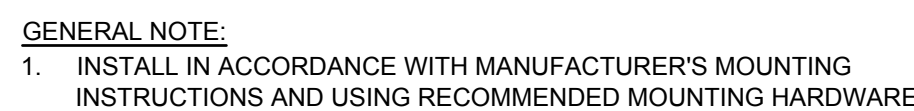
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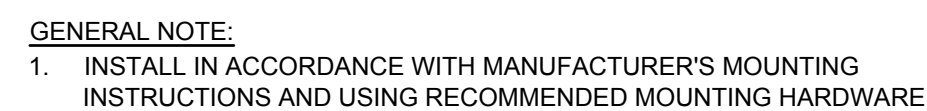
2 NOT TO SCALE



5 NOT TO SCALE



3 NOT TO SCALE



6 NOT TO SCALE