GADSDEN CITY HALL

100% CONSTRUCTION DOCUMENTS
11-25-2024
PROJECT NO: 23-083

DESIGN TEAM INFORMATION

ARCHITECT:	WILLIAMS BLACKSTOCK ARCHITECTS 2204 1st AVENUE SOUTH, SUITE 200 BIRMINGHAM, AL 35233
CIVIL ENGINEER:	*CDG Engineering* *224 Broad Street, Suite 201* *GADSDEN, AL 35901*
LANDSCAPE ARCHITECT:	*Johnson & Co.* *2413 2nd Ave. South* *BIRMINGHAM, AL 35233*
STRUCTURAL ENGINEER:	*Structural Design Group* *300 Chase Park S #125,* *HOOVER, AL 35244*
MECHANICAL/ P/ FP/ ELECT ENGINEER:	*Dewberry* *2 Riverchase Office Plaza Suite 205* *BIRMINGHAM, AL 35244*

DRAWING INDEX

STATE OF ALABAMA
2522 5471
3821 6438
WILLIAMS BLACKSTOCK ARCHITECTS
5325
REGISTERED ARCHITECT

GADSDEN CITY HALL
100% CONSTRUCTION DOCUMENTS
CITY OF GADSDEN
200 Broad St. Gadsden, AL 35901
23-083

KEY PLAN :

ARCHITECT OF RECORD :
WILLIAMS BLACKSTOCK ARCHITECTS
2204 FIRST AVENUE SOUTH, SUITE 200
BIRMINGHAM, ALABAMA 35233

ISSUE DATE:
11-25-2024

REVISIONS :

NO.	DATE	DESCRIPTION

PROJECT NUMBER:
23-083

DRAWING TITLE:
COVER

SHEET NUMBER:
G-000

PROJECT GENERAL NOTES

GENERAL NOTES -- TO BE REVIEWED AND EDITED PER PROJECT...

THE FOLLOWING NOTES SHALL APPLY THROUGHOUT THE CONSTRUCTION DOCUMENTS; EXCEPTIONS ARE SPECIFICALLY NOTED ON EACH DRAWING.

BIDDING REQUIREMENTS: THE ENTIRE PROJECT IS TO BE BID & BUILT BY A GENERAL CONTRACTOR. THE CONTRACTOR AND TRADE CONTRACTORS ARE TO REFERENCE ALL DRAWINGS AND SPECIFICATIONS IN ALL VOLUMES IN THEIR ENTIRETY AS A COMPLETE SET OF CONTRACT DOCUMENTS AND BID THE PROJECT TO INCLUDE ALL REQUIREMENTS SHOWN AND SPECIFIED.

CODE: THE PROJECT HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING CODE AND OTHER ASSOCIATED ICC CODES AMONG RESPECTIVE DISCIPLINES. THE AUTHORITIES HAVING JURISDICTION ARE THE ALABAMA BUILDING COMMISSION AND THE CITY OF BIRMINGHAM. BOTH ARE ENFORCING THE PROJECT UNDER THE 2015 IBC.

COMPLIANCE: THE CONTRACTOR IS TO COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL LAWS AND CODES. THIS PROJECT SHALL COMPLY WITH THE STANDARD CONSTRUCTION SPECIFICATIONS, LATEST REVISION OF THE CITY OF BIRMINGHAM, AND ALL REQUIREMENTS AND STANDARDS OF THE UNIVERSITY OF ALABAMA AT BIRMINGHAM. THE CONTRACTOR IS TO COORDINATE ALL UTILITY WORK WITH RESPECTED UTILITY COMPANIES PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL NECESSARY BUILDING PERMITS AND INSPECTIONS REQUIRED TO PERFORM THIS WORK AND COMPLETE THIS PROJECT. SEE THE LIFE SAFETY PLANS FOR APPLICABLE CODES.

PROJECT SITE LIMITS: THE PROJECT SITE LIMITS ARE SHOWN ON THE ARCHITECTURAL SITE PLAN, SITE UTILIZATION PLAN AND CIVIL SITE PLAN. A FENCING DIAGRAM IS PROVIDED TO THE CONTRACTOR TO SHOW THE AVAILABILITY OF SITE AREAS THROUGHOUT THE DURATION OF THE PROJECT. THE CONTRACTOR IS TO CAREFULLY REVIEW THIS INFORMATION, INCLUDING OWNER RESTRICTIONS, FOR INCORPORATION OF COORDINATION AND OVERHEAD REQUIREMENTS INTO THE CONTRACTOR'S BID NECESSARY TO MEET THESE REQUIREMENTS.

SAFETY: THE CONTRACTOR SHALL AT ALL TIMES CONDUCT HIS WORK AS TO ASSURE THE LEAST POSSIBLE OBSTRUCTION TO TRAFFIC SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE PROTECTION OF PERSONS AND THE PROPERTY SHALL BE PROVIDED FOR BY THE CONTRACTOR.

ARCHITECT'S STATUS: THE ARCHITECT SHALL NOT CONTROL OR BE IN CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK OR FOR THE ACTS OR OMISSIONS OF THE CONTRACTORS OR ANY OTHER PERSONS PERFORMING ANY WORK OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK.

ACCESS DURING DEMOLITION & CONSTRUCTION: MAINTAIN CORRIDORS CLEAN, FREE AND CLEAR OF DEBRIS AT ALL TIMES. MAINTAIN EGRESS WIDTHS AND ACCESS TO ALL FIRE EXITS/STAIRS DURING CONSTRUCTION. HANDICAP ACCESSIBLE ROUTES SHALL NOT EXCEED A 2% CROSS SLOPE. MAINTAIN ADA COMPLIANT CROSSING ACROSS ALL DRIVEWAYS.

COORDINATION:
a. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE C, A, S, MEP, & FP SYSTEMS WITH EXISTING SITE AND INFRASTRUCTURE AND NEW CONSTRUCTION. THE CONTRACTOR IS TO NOTIFY THE ARCHITECT OF ANY CONFLICTS PRIOR TO PROCEEDING WITH THE WORK. ALL TRADE CONTRACTORS ARE TO REFERENCE ARCHITECTURAL DRAWINGS FOR ANY SPECIFIC REQUIREMENTS THAT MAY AFFECT THEIR WORK, INCLUDING LOCATIONS, PLACEMENT, HEIGHTS, ETC. OF EQUIPMENT, FIXTURES, ETC.
b. ANY AUTOMATIC SPRINKLER HEADS SHOWN ON REFLECTED CEILING PLANS INDICATE DESIRED LOCATIONS. CONTRACTOR SHALL INCLUDE SUFFICIENT HEADS TO PROVIDE A TOTALLY 100% AUTOMATIC SPRINKLER SYSTEM THROUGHOUT THE NEW CONSTRUCTION AREA PER NFPA CHAPTER 13. SPRINKLER HEAD LOCATIONS ARE SUBJECT TO ARCHITECT COORDINATION AND ADJUSTMENT DURING SHOP DRAWING SUBMITTAL PROCESS AS REQUIRED TO COORDINATE WITH OTHER TRADES.
c. THE INSTALLATION OF EQUIPMENT, HARDWARE, PIPING, CONDUIT, ETC. THAT OBSTRUCTS ACCESSIBILITY FOR NEW OR EXISTING EQUIPMENT IS NOT ACCEPTABLE.
d. THE CONTRACTOR SHALL VERIFY LOCATIONS AND REQUIREMENTS FOR ALL OWNER SUPPLIED FIXED EQUIPMENT AND COORDINATE WITH CONSULTANTS DRAWINGS AND THE CONTRACT DOCUMENTS.
e. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND COORDINATING ALL SIGNAGE AND BARRICADES FOR SIDEWALK AND STREET CLOSING.
f. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL REQUIRED CURB, GUTTER, SIDEWALK, AND PAVEMENT ARE PROPERLY TRANSITIONED TO MATCH EXISTING WIDTHS AND HEIGHTS OF SUCH STRUCTURES.
g. SEE DRAWINGS FOR FINISH SCHEDULE, TOILET ACCESSORY SCHEDULE, DOOR AND FRAME SCHEDULE, VIEW WINDOWS SCHEDULE AND FIXED EQUIPMENT SCHEDULE.
h. ALL PIPING SHALL BE INSTALLED IN AREAS WHERE IT WILL BE CONCEALED WITH THE EXCEPTION OF MECHANICAL ROOMS OR AS NOTED. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLED IN FINISH AREAS.
i. ALL CONTRACTORS ARE TO REFERENCE ARCHITECTURAL PLANS FOR ROOM NAMES AND NUMBERS.

GEOTECHNICAL/TESTING REQUIREMENTS: A GEOTECHNICAL REPORT HAS BEEN PROVIDED IN THE PROJECT MANUAL. BY SUBMITTING A BID, THE CONTRACTOR ACKNOWLEDGES REVIEW OF THE GEOTECHNICAL CONDITIONS AND ACCEPTS THE SCOPE OF WORK REQUIRED OF THE PROJECT BY THE GEOTECHNICAL, CIVIL, & STRUCTURAL REQUIREMENTS.

EXISTING GRADES & DEMOLITION: EXISTING GRADES ARE SHOWN FROM SURVEY INFORMATION PROVIDED IN THE DRAWING SET. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID TO REVIEW THE FIELD CONDITIONS AND BECOME FAMILIAR WITH ALL ASPECTS OF THE WORK REQUIRED TO COMPLETE THIS PROJECT TO THE SATISFACTION OF THE OWNER, THE OWNER'S REPRESENTATIVE, AND ALL GOVERNING ENTITIES. SUBMITTAL OF A BID INDICATES ACCEPTANCE OF THE EXISTING CONDITIONS ON SITE IN CONJUNCTION WITH THE SCOPE OF WORK REQUIRED FOR DEMOLITION AND NEW CONSTRUCTION IN COMPLIANCE WITH THE DRAWINGS AND SPECIFICATIONS.

UTILITY DISRUPTIONS, SCHEDULED AND UNANTICIPATED: UTILITY OUTAGES, SHUT DOWNS, OR CUT OVERS ARE TO BE SCHEDULED IN ADVANCE OR AS APPROVED IN ADVANCE BY THE UNIVERSITY. PREVENT ACCIDENTAL DISRUPTIONS OF UTILITIES SERVING OPERATING FACILITIES WITHOUT STANDBY POWER SYSTEMS.

FIRE RATINGS:
a. STAIR, ELEVATOR, AND MECHANICAL SHAFTS ARE TO BE RATED AS INDICATED IN THE DRAWINGS.
b. ALL ELECTRICAL PANELS, FIRE EXTINGUISHER CABINETS, GAS SHUT OFF VALVES, ETC. LOCATED IN RATED PARTITIONS SHALL BE BACKED WITH GYPSUM BOARD AS REQUIRED TO RETAIN RATING, SEE DRAWINGS FOR DETAILS.

FIRESTOPPING AND FIREPROOFING:
a. INFILL ALL OPENINGS THROUGH FIRE RATED PARTITIONS AND SLABS WITH FIRESTOPPING TO MAINTAIN PARTITION AND FLOOR RATINGS.
b. INFILL ALL INTERSTITIAL SPACES BETWEEN STRUCTURE AND CURTAINWALL WITH FIRESTOPPING SYSTEM.
c. CONTRACTOR TO INCLUDE ALL FIRESTOPPING REQUIREMENTS NECESSARY FOR VARIOUS PENETRATION CONDITIONS IN COMPLIANCE WITH RATED MEMBRANES/SURFACES BEING PENETRATED, SHOULD A PENETRATION REQUIREMENT NOT BE DETAILED, THE CONTRACTOR IS RESPONSIBLE FOR BIDDING THE PROJECT TO INCLUDE A REASONABLE FIRESTOPPING SYSTEM TO MEET THE RATING NEEDS.

WET FLOOR INSTALLATION: THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL NEW FLOORING IN WET AREAS IS INSTALLED WITH POSITIVE DRAINAGE TO FLOOR DRAINS OR FLOOR SINKS.

ROOFING INSTALLATION: THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL NEW ROOFING IS INSTALLED WITH POSITIVE DRAINAGE TO GUTTER & ROOF DRAINS.

METAL STUD AND MISCELLANEOUS METAL FRAMING:
a. THE INSTALLER OF THE COLD ROLLED METAL FRAMING AND MISCELLANEOUS FRAMING IS RESPONSIBLE FOR STRUCTURING THESE SYSTEMS FOR THE APPLICATION SHOWN. THE ARCHITECTURAL DRAWINGS INDICATE THE CONFIGURATION AND APPEARANCE REQUIRED BUT THE STRUCTURAL FRAMING FOR SUPPORT OF THIS CONFIGURATION AND ANCILLARY COMPONENTS IS THE RESPONSIBILITY OF THE INSTALLER AND SHALL BE DESIGNED IN ACCORDANCE WITH STRUCTURAL ENGINEERING PRACTICE AND IN ACCORDANCE WITH THE METAL FRAMING AND INTERFACING CONSTRUCTION MANUFACTURER'S RECOMMENDATIONS. REFER TO COLD ROLLED FRAMING SECTION OF THE SPECIFICATIONS FOR THE ENGINEERING OF METAL STUD FRAMING.

GENERAL

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY IN THE AREA OF WORK IN ACCORDANCE WITH ALL APPLICABLE SAFETY CODES.
2. THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE OWNER/ARCHITECT/ENGINEER HARMLESS FOR INJURY OR DEATH TO PERSONS OR FOR DAMAGE TO PROPERTY CAUSED BY THE NEGLIGENCE OF THE CONTRACTOR, HIS AGENTS, EMPLOYEES, OR SUBCONTRACTOR.
3. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ADJACENT WORK AND SHALL REPAIR SAID DAMAGE AT HIS OWN EXPENSE. PROVIDE PROTECTION FOR EXISTING STRUCTURES AND SPACES WITHIN THE AREA OF OPERATION UNDER THIS CONTRACT. ANY DAMAGE OR DISTURBANCE RESULTING FROM WORK DONE UNDER THIS CONTRACT SHALL BE PROMPTLY RESTORED, REPLACED, OR REPAIRED.
4. PROPER PROTECTION SHALL BE PROVIDED FOR ALL AREAS WHERE DEMOLITION OR NEW WORK IS TO BE PERFORMED SO AS TO PREVENT DIRT OR DUST FROM ENTERING ACTIVE PORTIONS OF THE JOB SITE. PROTECTIVE MEASURES SHALL CONSIST OF DUST TIGHT STUD AND PLYWOOD PARTITIONS OR PROPERLY HUNG TARPAULINS, DEPENDING ON THE TYPE OF WORK TO BE DONE. PROTECTIVE MEASURES SHALL BE APPROVED BY THE OWNER PRIOR TO INSTALLATION.
5. THE CONTRACTOR SHALL, UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, SECURE AND PAY FOR THE REQUIRED CONSTRUCTION PERMIT(S), FEES, LICENSES, AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION OF THE WORK.
6. CODES: ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE APPLICABLE BUILDING CODES AND ORDINANCES. IN THE CASE OF ANY CONFLICT WHERE THE METHOD OR STANDARDS OF INSTALLATION OF THE MATERIALS SPECIFIED DO NOT EQUAL OR EXCEED THE REQUIREMENTS OF THE LAWS OR ORDINANCES, THE LAWS OR ORDINANCES SHALL GOVERN. NOTIFY THE ARCHITECT OF ALL CONFLICTS.
7. DRAWINGS AND SPECIFICATIONS: MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS ARE SUPPLEMENTARY TO THESE DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL DISCREPANCIES BETWEEN THE CONSULTANTS' DRAWINGS WITH A WRITTEN REQUEST FOR CLARIFICATION. ANY WORK INSTALLED IN CONFLICT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER OR ARCHITECT.
8. COORDINATION OF ALL WORK UNDER THIS CONTRACT SHALL BE MAINTAINED TO ENSURE THE QUALITY AND TIMELY COMPLETION OF THE WORK/PROJECT.
9. THE CONTRACTOR IS RESPONSIBLE FOR THE STRUCTURAL STABILITY, UNDERPINNING, AND SHORING OF ADJACENT PROPERTIES, BUILDINGS, AND OTHER STRUCTURES AS PER CODES AND METHODS OF GOOD PRACTICE.
10. DO NOT INTERRUPT EXISTING UTILITIES SERVING THE FACILITY, EXCEPT WHEN AUTHORIZED IN WRITING BY THE OWNER AND ALL AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING CONSTRUCTION AS ACCEPTABLE TO OWNER.
11. IF ASBESTOS OR ANY OTHER HAZARDOUS MATERIALS IS DISCOVERED, IMMEDIATELY NOTIFY THE ARCHITECT AND IMMEDIATELY STOP DISTURBING THE HAZARDOUS MATERIAL. THE ARCHITECT SHALL NOTIFY THE CONSTRUCTION MANAGER WHEN IT IS PERMISSIBLE TO RESUME WORK IN THE AREA BASED ON REVIEW AND APPROVALS BY THE OWNER'S APPROPRIATE CONSULTANT. ALL WORK SHALL ADHERE TO ALL APPLICABLE CODES, LAWS REGULATIONS AND COMMON TRADE PRACTICE.
12. ALL WORK SPECIFIED IN THE CONTRACT SHALL INCLUDE ALL EXISTING CONDITIONS MODIFICATIONS NECESSARY TO ACCOMMODATE THE NEW WORK AS SPECIFIED IN THE CONTRACT DOCUMENTS.
13. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL REPAIR ALL DAMAGE, OR ALTERATION, DUE TO ACTIVITIES BY THE CONTRACTOR, OF PUBLIC AND PRIVATE PROPERTY, TO THEIR PRE-CONSTRUCTION CONDITIONS, INCLUDING BUT NOT LIMITED TO: ROADS, WALKWAYS, UTILITIES, STRUCTURES, CONSTRUCTION SITE, STORAGE, STAGING, AND PARKING AREAS.
14. THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR ALL PARTS OF THE PRESENT BUILDING, THEIR CONTENTS AND OCCUPANTS, WHEREVER WORK UNDER THIS CONTRACT IS BEING PERFORMED.
15. THE OWNER RESERVES THE RIGHT AT ALL TIMES TO DELIVER, PLACE AND INSTALL EQUIPMENT AND FURNISHINGS AS THE WORK PROGRESSES, SO LONG AS THERE IS NO INTERFERENCE WITH THE WORK OF CONTRACTOR.
16. ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED.
17. PLANS, SPECIFICATIONS, CODES AND STANDARDS ARE MINIMUM REQUIREMENTS.

DEMOLITION
1. ALL DEMOLITION AND REMOVALS SHALL BE IN STRICT ACCORDANCE WITH LOCAL AUTHORITIES HAVING JURISDICTION.
2. CONSULT OWNER PRIOR TO THE START OF DEMOLITION TO DETERMINE THE PRECISE SCOPE OF MATERIALS, FINISHES, AND SYSTEMS THAT ARE TO BE REUSED. THIS SCOPE MAY DIFFER FROM THAT INDICATED IN THESE DOCUMENTS.
3. CONTRACTOR TO PAY ALL FEES AND OBTAIN ALL REQUIRED PERMITS.
4. ANY DAMAGE CAUSED BY THE DEMOLITION PROCESS WILL BE CORRECTED BY CONTRACTOR AT NO ADDITIONAL COST.
5. IF THE DEMOLITION PROCESS RESULTS IN AN UNSAFE WORKING ENVIRONMENT, STOP WORK IMMEDIATELY AND NOTIFY APPROPRIATE AUTHORITIES, OWNER AND THE ARCHITECT PRIOR TO PROCEEDING.
6. PROVIDE ALL LIFE SAFETY SYSTEMS INCLUDING, BUT NOT LIMITED TO TEMPORARY LIGHTING, BARRICADES, GUARD RAILS AND VENTILATION SYSTEMS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS (OSHA)
7. ANY SYSTEMS THAT ARE REMOVED THAT WERE CONNECTED TO A UTILITY SHALL BE REMOVED BY A TRADE FAMILIAR WITH THAT UTILITY. CAP ALL REMAINING UTILITIES AND MARK THEIR LOCATION AT THE SITE AND ON THE AS BUILT RECORD SET DOCUMENTS. NOTIFY THE UTILITY COMPANY AND THE LANDLORD OF INTENTIONS PRIOR TO PROCEEDING WITH THE REMOVAL PROCESS.
8. AS WASTE MATERIALS ARE GENERATED, IMMEDIATELY REMOVE AND LEGALLY DISPOSE OF THE DEBRIS AWAY FROM THE PREMISES SO AS TO ASSURE A CLEAR WORKING ENVIRONMENT. ARRANGE WITH THE LANDLORD FOR AN ACCEPTABLE REMOVAL PROCESS. ON SITE BURNING OF THE DEBRIS IS NOT PERMITTED.
9. PROTECT ALL EXISTING ON-SITE AND OFF-SITE CONSTRUCTION THAT IS TO REMAIN (FINISH MATERIAL, ALARM SYSTEM, PLUMBING, HVAC, ELECTRICAL, SPRINKLER)
10. CONFORM TO ALL APPLICABLE AUTHORITIES HAVING JURISDICTION.
11. THE ARCHITECT HAS NO KNOWLEDGE OF ANY HAZARDOUS MATERIAL ON THE JOB SITE. IF ANY HAZARDOUS MATERIALS ARE ENCOUNTERED NOTIFY THE OWNER AND THE ARCHITECT. THE REMOVAL OF ANY HAZARDOUS MATERIALS SHALL BE PERFORMED IN STRICT CONFORMANCE TO THE APPLICABLE REGULATIONS AND PROCEDURES.
12. DO NOT ABANDON ANY ELECTRICAL OR MECHANICAL EQUIPMENT. REMOVE ALL EQUIPMENT NOT BEING REUSED OR REFURBISHED.
13. THE SCOPE OF DEMOLITION AND REMOVAL TO BE PERFORMED SHALL NOT BE LIMITED BY THE DRAWINGS OR SPECIFICATION, BUT SHALL INCLUDE ALL WORK THAT SHALL BE REQUIRED OR DIRECTED BY THE OWNER'S REPRESENTATIVE IN ORDER TO FACILITATE THE NEW WORK.
14. PRIOR TO STARTING THE CONSTRUCTION PHASE TO WORK, CLEAN THE SITE OF ALL DEMOLITION DEBRIS AND TOOLS. ASSURE THAT THE DEMOLITION IS COMPLETE TO THE POINT WHERE NO ADDITIONAL DEMOLITION WILL BE REQUIRED TO ACCOMMODATE THE NEW WORK, UNLESS COORDINATED.

DIMENSIONS
1. ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE BUT WITHOUT GUARANTEE OF ACCURACY. THE DRAWINGS ARE INTENDED TO SHOW THE NATURE OF THE EXISTING BUILDING CONDITIONS KNOWN TO THE ARCHITECT AT THE TIME THAT DRAWINGS WERE PREPARED. IT IS PRESENTED IN GOOD FAITH FOR INFORMATION AND CONVENIENCE. IT SHALL BE UNDERSTOOD THAT THE DRAWINGS ARE NOT INTENDED TO BE AN ACCURATE ACCOUNTING OF THE EXISTING FIELD CONDITIONS OR ALL THE REQUIRED WORK.
2. THE CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, LOCATIONS, LEVELS, DISTANCES AND FEATURES OF THE SITE AND RELATED IMPROVEMENTS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR CONDITIONS ADVERSELY AFFECTING THE DESIGN PRIOR TO PROCEEDING WITH THE WORK.
3. DATA IN THE SPECIFICATIONS AND ON THE DRAWINGS ARE AS ACCURATE AS POSSIBLE, BUT ARE NOT GUARANTEED. NO ALLOWANCE WILL BE MADE ON BEHALF OF THE CONTRACTOR FOR ANY EXTRA EXPENSE RESULTING FROM FAILURE OR NEGLECT IN DETERMINING THE CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED.
4. EXTERIOR DIMENSIONS OF PLANS ARE TO BUILDING GRID LINES OR FINISH SURFACES UNLESS NOTED OTHERWISE. INTERIOR DIMENSIONS OF PLANS ARE TO BUILDING GRID LINES OR FACE OF FINISH UNLESS NOTED OTHERWISE.
5. DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL USE DIMENSIONS SHOWN ON THE DRAWINGS AND ACTUAL FIELD MEASUREMENTS. NOTIFY THE ARCHITECT IF DISCREPANCIES ARE FOUND.
6. COORDINATION: THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION AND COORDINATION OF THE WORK OF ALL TRADES TO ASSURE COMPLIANCE WITH THE DRAWINGS AND SPECIFICATIONS.
7. ALL ELEVATIONS GIVEN FOR EXISTING WORK ARE TO FINISHED FLOOR. THE CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS FOR EXISTING STRUCTURES PRIOR TO THE COMMENCEMENT OF WORK.

FIRE PROTECTION

1. PROVIDE FIRE PROTECTION AT ALL PENETRATIONS OF FIRE RATED ELEMENTS AS REQUIRED BY CODE AND PER THE SPECIFICATIONS.
2. IN LOCATIONS WHERE FIRE PROTECTION INSTALLATIONS ARE RECESSED INTO THE WALLS OR FLOOR, THE REQUIRED RATING SHALL BE CONTINUED AROUND THE INSTALLATION TO THE UNDERSIDE OF SLAB OR DECK ABOVE, AS NECESSARY, TO MAINTAIN THE RATING.

CONSTRUCTION

1. CONTRACTOR SHALL INVESTIGATE AND VERIFY LOCATION OF STRUCTURAL, MECHANICAL, AND ELECTRICAL ELEMENTS AND OTHER EXISTING CONDITIONS PRIOR TO THE BEGINNING THE WORK.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING WALL BLOCKING REQUIRED FOR WALL AND CEILING MOUNTED ITEMS.
3. THERE SHALL BE NO EXPOSED PIPE, CONDUITS, DUCTS, VENTS, ETC. ALL SUCH LINES SHALL BE CONCEALED OR FURRED AND FINISHED, UNLESS NOTED AS EXPOSED ON CONSTRUCTION DRAWINGS.
4. OFFSET STUDS WHERE REQUIRED SO THAT FINISH WALL SURFACES WILL BE FLUSH.
5. PROVIDE GALVANIC ISOLATION BETWEEN DISSIMILAR METALS.
6. GENERAL CONTRACTOR IS TO COORDINATE WITH ELECTRICAL AND PLUMBING CONTRACTORS FOR ALL REQUIRED ROUGH-INS AND/OR TRENCHING REQUIRED FOR ELECTRICAL AND PLUMBING RUNS.
7. PROVIDE PRESSURE TREATED WOOD AT ALL LOCATIONS WHERE WOOD IS EXPOSED TO THE EXTERIOR OR WHERE WOOD COMES IN CONTACT WITH CONCRETE OR SOIL.
8. PROVIDE FIRE RETARDANT WOOD AND PLYWOOD AT ALL FRAMING, BLOCKING AND SUBSTRATE CONDITIONS.
9. THE CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING REQUIRED TO COMPLETE THE WORK OR MAKE ITS PARTS FIT TOGETHER PROPERLY WITHOUT COMPROMISING THE QUALITY OF THE WORK.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTORTIONS, AND OFF-ALIGNMENTS ACCORDING TO CODES AND STANDARDS OF GOOD PRACTICE.
11. ALL MASONRY WALL CONSTRUCTION (EXTERIOR/INTERIOR) SHALL BE ANCHORED AS INDICATED IN CONTRACT DOCUMENTS.
12. ALL FLOORS IN WET AREAS (TOILETS, KITCHEN, JANITOR'S CLOSET, SHOWERS, LOCKER ROOMS, ETC) SHALL RECEIVE WATERPROOFING AS REQUIRED.
13. ALL VERTICAL SHAFTS SHALL HAVE A MINIMUM FIRE RATING OF 2 HOURS, UNLESS REQUIRED OTHERWISE BY CODES DUE TO OCCUPANCY ADJACENCIES.
14. ALL PIPE SPACES FOR TOILETS SHALL HAVE A CEMENT FINISHED FLOOR 1" HIGHER THAN THE FINISHED FLOOR OF THE TOILET. THE PARTITION BETWEEN THE PIPE SPACE AND THE TOILET SHALL HAVE WEEP HOLES FROM THE PIPE SPACE TO THE TOILET ROOM.
15. ALL FLOORS WITH FLOOR DRAINS SHALL BE SUFFICIENTLY PITCHED TO THE FLOOR DRAIN(S), TYPICAL.
16. ALL SURFACES (FLOORS, WALLS, CEILINGS, ETC.) DAMAGED OR EXPOSED DURING WORK SHALL BE REPAIRED, PATCHED, AND FINISHED AS REQUIRED TO MATCH ADJACENT MATERIALS.
17. THE CONTRACTOR SHALL CORRECT ANY VARIATIONS IN FLOOR ELEVATIONS CREATED BY THE REMOVAL OF PARTITIONS AND/OR FOR THE INSTALLATION OF DOOR OPENINGS.
18. PROVIDE PIPE SLEEVES AS REQUIRED FOR ALL INCOMING SERVICES INTO THE BUILDING AND FOR ALL OTHER MECHANICAL PENETRATIONS WITHIN THE BUILDING. LOCATIONS OF SUCH SLEEVES SHALL BE COORDINATED PRIOR TO CONSTRUCTION OF FOUNDATIONS, FLOOR SLABS, EXTERIOR AND INTERIOR WALLS, AND ROOF ASSEMBLIES.
19. THE CONTRACTOR SHALL COORDINATE AND INSTALL ALL CLEANOUTS AND ACCESS DOORS IN FLOORS, PARTITIONS, AND CEILINGS AS REQUIRED BY THE CONTRACT DOCUMENTS.

CEILING

1. CEILING HEIGHTS, WHERE INDICATED, ARE FROM THE FINISHED FLOOR TO THE BOTTOM OF CEILING FINISH SURFACE.
2. PIPES & DUCTS SHALL BE INSTALLED A MINIMUM OF 3" ABOVE SUSPENDED CEILINGS.
3. UNLESS NOTED OTHERWISE, FINISHES FOR ALL WALLS SHALL EXTEND A MINIMUM OF 6" ABOVE SUSPENDED OR FURRED CEILINGS.
4. NO SUSPENDED OR FURRED CEILINGS SHALL BE INSTALLED IN AREAS WHERE PIPES ARE TO BE CONCEALED UNTIL PIPING HAS BEEN TESTED.

FINISHES

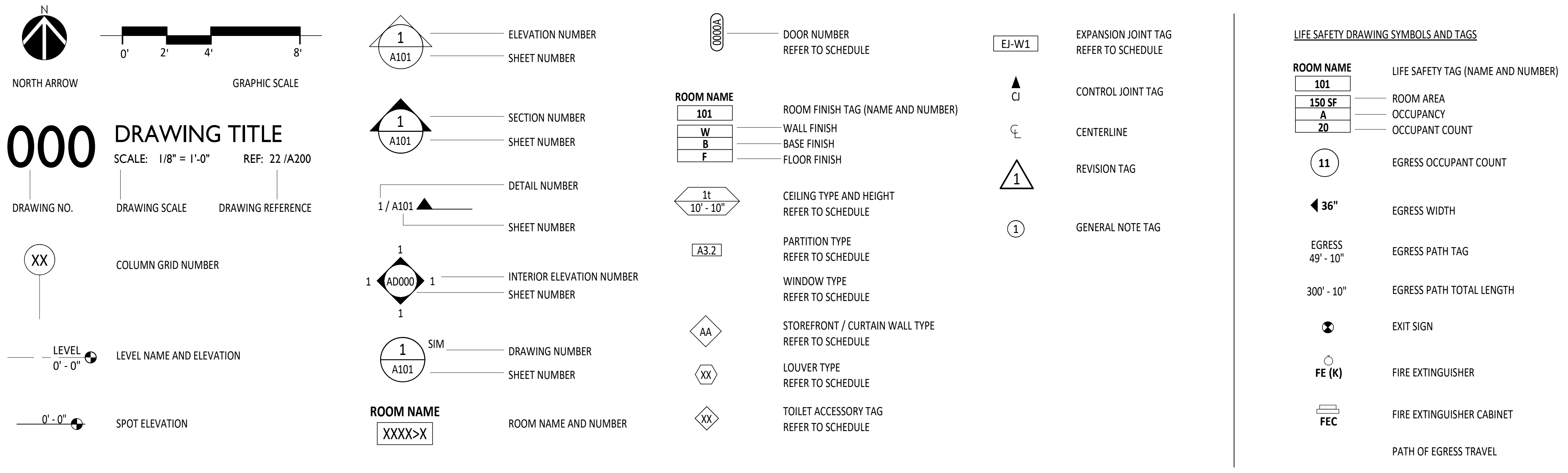
1. ALL PAINT AND WALL COVERINGS SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
2. PREPARE FLOOR PER MANUFACTURER'S RECOMMENDATIONS TO PROVIDE LEVEL AREA FOR FLOORING INSTALLATION AND LEVEL TRANSITIONS.
3. DISTURBED FLOORS, WALLS, CEILINGS AND FINISHES SHALL BE PATCHED TO MATCH EXISTING AND/OR PATCHED TO RECEIVE NEW FINISHES SPECIFIED IN THE FINISH SCHEDULE, UNLESS OTHERWISE NOTED.

MECHANICAL / ELECTRICAL / PLUMBING

1. MECHANICAL AND ELECTRICAL CONTRACTORS SHALL BE RESPONSIBLE TO MAINTAIN COMPLIANCE WITH APPLICABLE CODES AND STANDARDS, AND OBTAIN ALL NECESSARY PERMITS AND APPROVALS.
2. IN LOCATIONS WHERE M/E/P INSTALLATIONS ARE RECESSED INTO THE WALLS OR FLOOR, THE REQUIRED RATING SHALL BE CONTINUED AROUND THE INSTALLATION TO THE UNDERSIDE OF SLAB OR DECK ABOVE, AS NECESSARY, TO MAINTAIN THE RATING.
3. THE CONTRACTOR SHALL COORDINATE WITH ALL TRADES FOR ANY OTHER REQUIRED DEVICES, EQUIPMENT, ACCESS DOORS, FIXTURES, ETC. NOT INDICATED IN THE CONTRACT DOCUMENTS AND WILL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY ADDITIONAL REQUIREMENTS OF SUCH ITEMS.
4. ALL ELECTRICAL WORK AND INSTALLATION OF RELATED EQUIPMENT SHALL BE COORDINATED PRIOR TO THE CONSTRUCTION OF PARTITIONS WHERE SUCH WORK AND/OR EQUIPMENT OCCUR. THE CONTRACTOR SHALL COORDINATE ALL OPENINGS IN THE FOUNDATION AND EXTERIOR WALLS FOR THE INSTALLATION OF CONDUIT SLEEVES AND BOXES FOR ELECTRICAL EQUIPMENT.
5. ANY ELECTRICAL INDICATIONS ON ARCHITECTURAL DRAWINGS ARE FOR LOCATION PURPOSES ONLY.
6. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR THOSE AREAS OF THE EXISTING BUILDING WHERE WORK NECESSITATES CUTTING, PATCHING AND FINISHING.
7. DEMOLITION REQUIREMENTS FOR LIGHTING, ELECTRICAL, MECHANICAL AND PLUMBING SYSTEMS SHALL BE AS INDICATED IN THE MEP DRAWINGS AND CIVIL DRAWINGS.
8. CLOSE ALL OPENINGS DUE TO CUTTING, REMOVAL AND NEW WORK REQUIRED BY MECHANICAL, ELECTRICAL AND PLUMBING TRADES. ALL PATCHING SHALL MATCH EXISTING FINISHES-SEE M/E/P DRAWINGS.

SYMBOL LEGEND

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



NORTH ARROW
GRAPHIC SCALE
DRAWING NO.
DRAWING SCALE
DRAWING REFERENCE
COLUMN GRID NUMBER
LEVEL NAME AND ELEVATION
SPOT ELEVATION

ELEVATION NUMBER
SHEET NUMBER
SECTION NUMBER
SHEET NUMBER
DETAIL NUMBER
SHEET NUMBER
INTERIOR ELEVATION NUMBER
SHEET NUMBER
DRAWING NUMBER
SHEET NUMBER
ROOM NAME AND NUMBER

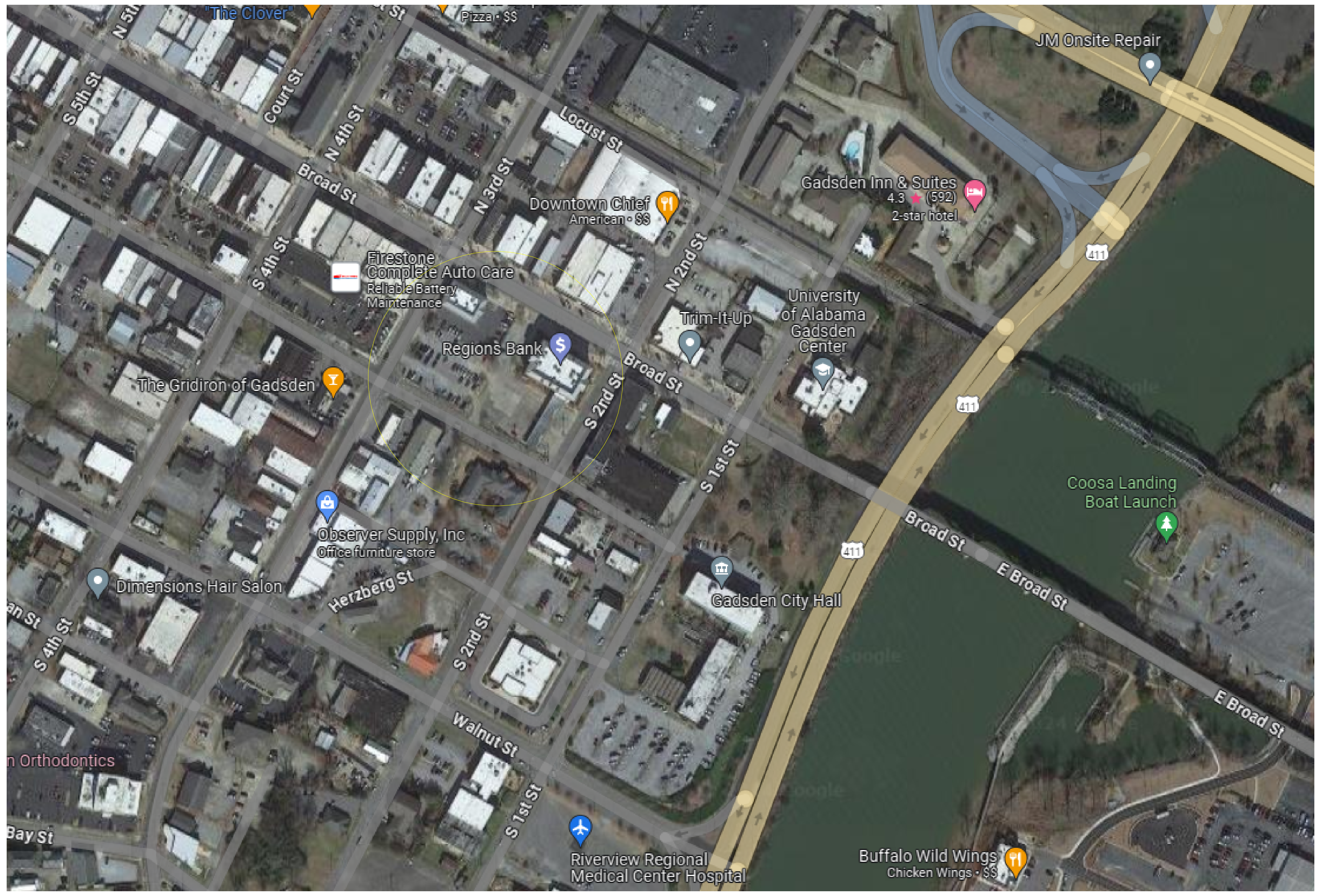
DOOR NUMBER
REFER TO SCHEDULE
ROOM FINISH TAG (NAME AND NUMBER)
WALL FINISH
BASE FINISH
FLOOR FINISH
CEILING TYPE AND HEIGHT
REFER TO SCHEDULE
PARTITION TYPE
REFER TO SCHEDULE
WINDOW TYPE
REFER TO SCHEDULE
STOREFRONT / CURTAIN WALL TYPE
REFER TO SCHEDULE
LOUVER TYPE
REFER TO SCHEDULE
TOILET ACCESSORY TAG
REFER TO SCHEDULE

EXPANSION JOINT TAG
REFER TO SCHEDULE
CONTROL JOINT TAG
CENTERLINE
REVISION TAG
GENERAL NOTE TAG

LIFE SAFETY DRAWING SYMBOLS AND TAGS

LIFE SAFETY TAG (NAME AND NUMBER)
ROOM AREA
OCCUPANCY
OCCUPANT COUNT
EGRESS OCCUPANT COUNT
EGRESS WIDTH
EGRESS PATH TAG
EGRESS PATH TOTAL LENGTH
EXIT SIGN
FIRE EXTINGUISHER
FIRE EXTINGUISHER CABINET
PATH OF EGRESS TRAVEL

VICINITY MAP



WILLIAMS BLACKSTOCK ARCHITECTS
5325

GADSDEN CITY HALL
100% CONSTRUCTION DOCUMENTS

CITY OF GADSDEN
200 Broad St, Gadsden, AL 35901
23-083

KEY PLAN :

ARCHITECT OF RECORD :
WILLIAMS
BLACKSTOCK
ARCHITECTS

2204 FIRST AVENUE SOUTH, SUITE 200
BIRMINGHAM, ALABAMA 35233

ISSUE DATE:
11-25-2024

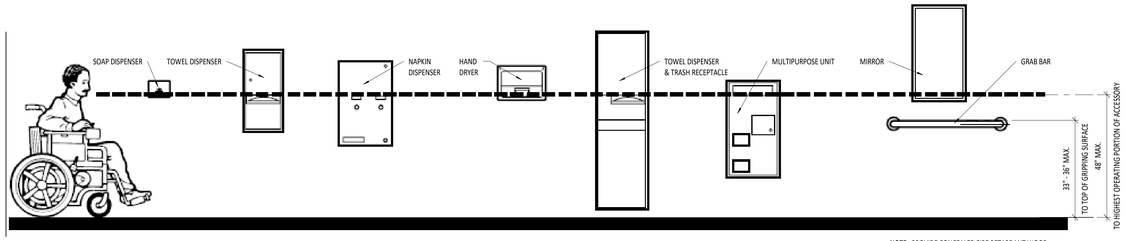
REVISIONS :

NO.	DATE	DESCRIPTION

PROJECT NUMBER:
23-083

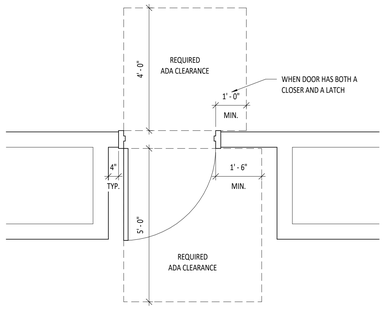
DRAWING TITLE:
REFERENCES AND STANDARDS

SHEET NUMBER:
G-001

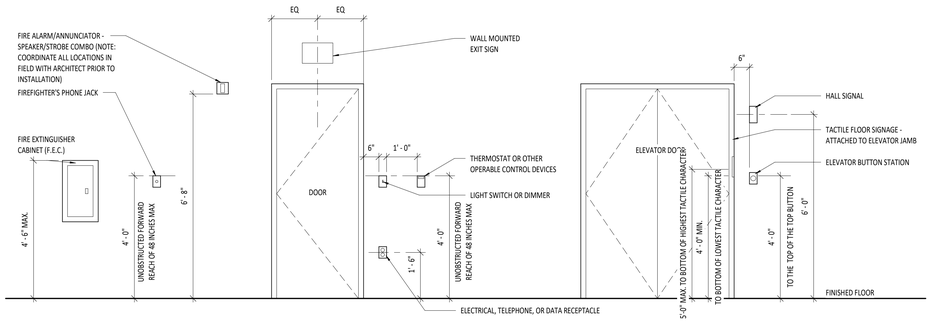


NOTE: PROVIDE CONCEALED FIRE RETARDANT WOOD BLOCKING FOR FIXTURE INSTALLATION AND STABILITY.

8 TYP. MOUNTING HEIGHTS - ACCESSORIES
NOT TO SCALE

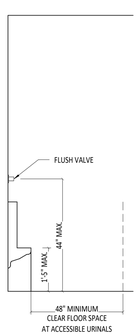


7 ENLARGED PLAN - DOOR SWING CLEARANCE
SCALE: 1/2" = 1'-0"

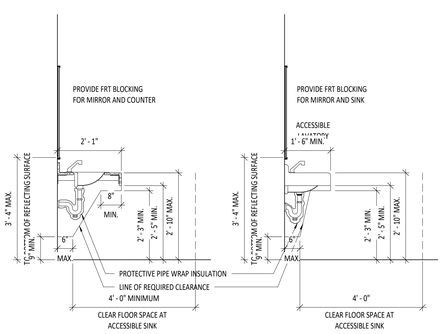


ALL OPERABLE DEVICES AND CONTROLS MUST BE MOUNTED WITHIN 48" OF THE FINISH FLOOR.

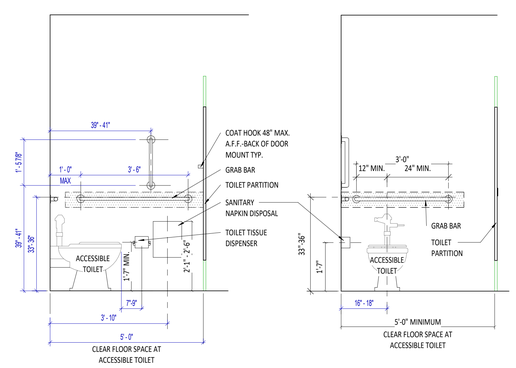
6 TYPICAL MOUNTING HEIGHTS
SCALE: 1/2" = 1'-0"



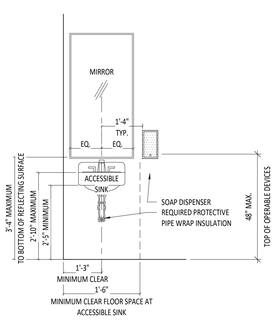
5 TYP. URINAL MOUNTING
SCALE: 1/2" = 1'-0"



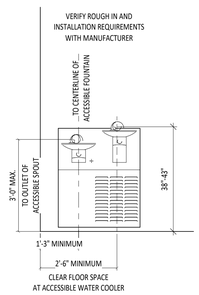
4 TYP. SECTION - LAVATORY
SCALE: 1/2" = 1'-0"



3 TYP. MOUNTING - TOILET ACCESSORIES
SCALE: 1/2" = 1'-0"



2 TYP. ELEVATION - LAVATORY
SCALE: 1/2" = 1'-0"



1 TYP. ELEVATION - E.W.C.
SCALE: 1/2" = 1'-0"

NOT FOR CONSTRUCTION

GADSDEN CITY HALL
100% CONSTRUCTION DOCUMENTS

CITY OF GADSDEN
200 Broad St, Gadsden, AL 35901
23-083

KEY PLAN :

ARCHITECT OF RECORD :

WILLIAMS BLACKSTOCK ARCHITECTS

2204 FIRST AVENUE SOUTH, SUITE 200
BIRMINGHAM, ALABAMA 35233

ISSUE DATE:
11-25-2024

REVISIONS :

NO.	DATE	DESCRIPTION

PROJECT NUMBER:
23-083

DRAWING TITLE:
ACCESSIBILITY STANDARDS

SHEET NUMBER:
G-002

STATE OF ALABAMA
2522 5471
5821 6438
WILLIAMS BLACKSTOCK
ARCHITECTS
5325
REGISTERED ARCHITECT

GADSDEN CITY HALL
100% CONSTRUCTION DOCUMENTS
CITY OF GADSDEN
200 Broad St, Gadsden, AL 35901
23-083

KEY PLAN :

ARCHITECT OF RECORD :
WILLIAMS
BLACKSTOCK
ARCHITECTS
2204 FIRST AVENUE SOUTH, SUITE 200
BIRMINGHAM, ALABAMA 35233

ISSUE DATE:
11-25-2024

REVISIONS :

NO.	DATE	DESCRIPTION

PROJECT NUMBER:
23-083

DRAWING TITLE:
EXTERIOR
RENDERINGS

SHEET NUMBER:
G-003

APPLICABLE CODES

2021 INTERNATIONAL BUILDING CODE
2021 INTERNATIONAL FIRE CODE
2021 INTERNATIONAL MECHANICAL CODE
2021 INTERNATIONAL PLUMBING CODE
2017 NATIONAL ELECTRICAL CODE

THE PROJECT INCLUDES NEW CONSTRUCTION CONNECTING TO TWO EXISTING BUILDINGS - ALL ON THE SAME LOT FOLLOWING EXCEPTION 1 OF 705.3.

CHAPTER 3 — USE AND OCCUPANCY CLASSIFICATION

NONSEPARATED AND ACCESSORY

BUSINESS (B)
304.1 BUSINESS GROUP B.
BUSINESS GROUP B OCCUPANCY INCLUDES AMONG OTHERS, THE USE OF A BUILDING OR STRUCTURE, OR A PORTION THEREOF, FOR OFFICE, PROFESSIONAL OR SERVICE TYPE TRANSACTIONS, INCLUDING STORAGE OF RECORDS AND ACCOUNTS

ASSEMBLY GROUP (A-3)
303.1 ASSEMBLY GROUP A.
ASSEMBLY GROUP A OCCUPANCY, AMONG OTHERS, THE USE OF A BUILDING OR STRUCTURE, OR A PORTION THEREOF, FOR THE GATHERING OF PERSONS FOR PURPOSES SUCH AS CIVIC, SOCIAL OR RELIGIOUS FUNCTIONS; RECREATION, FOOD OR DRINK CONSUMPTION OR AWAITING TRANSPORT.

STORAGE (S-1)
311.2 MODERATE-HAZARD STORAGE
STORAGE GROUP S-1 OCCUPANCIES ARE BUILDINGS OCCUPIED FOR STORAGE USES THAT ARE NOT CLASSIFIED AS GROUP S-2, INCLUDING BUT NOT LIMITED TO, STORAGE OF BOOKS AND PAPER IN ROLLS OR PACKS.

CHAPTER 5 — GENERAL BUILDING HEIGHTS AND AREAS

BUSINESS (B): THE AREA INCLUDED WITHIN SURROUNDING EXTERIOR WALLS EXCLUSIVE OF VENT SHAFTS AND COURTS. AREAS OF THE BUILDING NOT PROVIDED WITHIN SURROUNDING WALLS SHALL BE INCLUDED IN THE BUILDING AREA SF SUCH AREAS ARE INCLUDED WITHIN THE HORIZONTAL PROJECTION OF THE ROOF.

TABLE 504.3 AND 504.4

ALLOWABLE BUILDING HEIGHT AND STORIES CONSTRUCTION TYPE IIB (SPRINKLERED)	75 FEET	4 STORIES (B) 3 STORIES (A-3)
BUILDING HEIGHT: THE VERTICAL DISTANCE FROM GRADE PLANE TO THE AVERAGE HEIGHT OF THE HIGHEST ROOF SURFACE		
ACTUAL BUILDING HEIGHT	55 FEET	3 STORIES

TABLE 506.2	CLASSIFICATION	ACTUAL AREA	ALLOWABLE AREA
FLOOR AREA ALLOWED CONSTRUCTION TYPE IIB (SPRINKLERED)	B	52,464 SF	120,750 SF (69,000 SF*)
FLOOR AREA ALLOWED CONSTRUCTION TYPE IIB (SPRINKLERED)	A-3	3,074 SF	49,875 SF (28,500 SF*)

*506.3 FRONTAGE INCREASE.
PERCENTAGE OF BUILDING PERIMETER: 75 TO 100
OPEN SPACE: 30 OR GREATER = 0.75

508 MIXED USE AND OCCUPANCY

508.3 NONSEPARATED OCCUPANCIES
508.3.1 OCCUPANCY CLASSIFICATION. NONSEPARATED OCCUPANCIES SHALL BE INDIVIDUALLY CLASSIFIED IN ACCORDANCE WITH SECTION 302.1. THE REQUIREMENTS OF THIS CODE SHALL APPLY TO EACH PORTION OF THE BUILDING BASED ON THE OCCUPANCY CLASSIFICATION OF THAT SPACE. IN ADDITION, THE MOST RESTRICTIVE PROVISIONS OF CHAPTER 9 THAT APPLY TO THE NONSEPARATED OCCUPANCIES SHALL APPLY TO THE TOTAL NONSEPARATED OCCUPANCY AREA.
508.3.2. ALLOWABLE BUILDING AREA, HEIGHT AND NUMBER OF STORIES.
THE ALLOWABLE BUILDING AREA, HEIGHT AND NUMBER OF STORIES OF THE BUILDING OR PORTION THEREOF SHALL BE BASED ON THE MOST RESTRICTIVE ALLOWANCES.

CHAPTER 6 — TYPES OF CONSTRUCTION

TABLE 601 — TYPE IIB CONSTRUCTION

FIRE RESISTANCE RATINGS	
STRUCTURAL FRAME	0 HOUR
EXTERIOR BEARING WALLS	0 HOUR
INTERIOR BEARING WALLS	0 HOUR
NON-BEARING EXT. WALLS AND PARTITIONS	0 HOUR
NON-BEARING INT. WALLS AND PARTITIONS	0 HOUR
FLOOR CONSTRUCTION	1 HOUR
ROOF CONSTRUCTION	1 HOUR

TABLE 602 — TYPE IIB CONSTRUCTION

FIRE SEPARATION DISTANCE AT ALL PERIMETER WALLS OF GREATER THAN 30 FEET (SITE PLAN) 0 HOURS OF FIRE RESISTANCE IS REQUIRED. FOR EXTERIOR WALL ADJACENT TO EXISTING BUILDING WHERE FIRE SEPARATION DISTANCE IS LESS THAN 30 FEET (SITE PLAN) 1 HOUR FIRE RESISTANCE IS REQUIRED.

CHAPTER 7 — FIRE RESISTANCE RATED CONSTRUCTION

705 EXTERIOR WALLS

705.2.1 - TYPE IIB CONSTRUCTION-
PROJECTIONS FROM WALLS OF TYPE II OR III CONSTRUCTION SHALL BE NONCOMBUSTIBLE MATERIALS OR COMBUSTIBLE MATERIALS AS ALLOWED BY SECTIONS 1406.3 AND 1406.4

705.3 - BUILDINGS ON THE SAME LOT-
WHERE A NEW BUILDING IS TO BE ERECTED ON THE SAME LOT AS AN EXISTING BUILDING, THE LOCATION OF THE ASSUMED IMAGINARY LINE WITH RELATION TO THE EXISTING BUILDING SHALL BE SUCH THAT THE EXTERIOR WALL AND OPENING PROTECTION OF THE EXISTING BUILDING MEET THE CRITERIA AS SET FORTH IN SECTIONS 705.5 AND 705.8.
EXCEPTIONS:
1. TWO OR MORE BUILDINGS ON THE SAME LOT SHALL BE EITHER REGULATED AS SEPARATE BUILDINGS OR SHALL BE CONSIDERED AS PORTIONS OF ONE BUILDING IF THE AGGREGATE AREA OF SUCH BUILDINGS IS WITHIN THE LIMITS SPECIFIED IN CHAPTER 5 FOR A SINGLE BUILDING.

705.5 - FIRE RESISTANCE RATINGS
EXTERIOR WALLS SHALL BE FIRE RESISTANCE RATED IN ACCORDANCE WITH TABLES 601 AND 602 AND THIS SECTION. THE REQUIRED FIRE-RESISTANCE RATING OF EXTERIOR WALLS WITH A FIRE SEPARATION DISTANCE OF GRATER THAN 10 FEET SHALL BE RATED FOR EXPOSURE TO FIRE FROM THE INSIDE. THE REQUIRED FIRE-RESISTANCE RATING OF EXTERIOR WALLS WITH A FIRE SEPARATION DISTANCE OF LESS THAN OR EQUAL TO 10 FEET SHALL BE RATED FOR EXPOSURE TO FIRE FROM BOTH SIDES.

705.8.2 - PROTECTED OPENINGS
WHERE OPENINGS ARE REQUIRED TO BE PROTECTED , FIRE DOORS AND FIRE SHUTTERS SHALL COMPLY WITH SECTION 716.5

705.11 - PARAPETS
PARAPETS SHALL BE PROVIDED ON EXTERIOR WALLS OF BUILDINGS.
EXCEPTIONS: A PARAPET NEED NOT BE PROVIDED ON AN EXTERIOR WALL WHERE ANY OF THE FOLLOWING CONDITIONS EXIST:
1. - THE WALL IS NOT REQUIRED TO BE FIRE-RESISTANCE RATED IN ACCORDANCE WITH TABLE 602 BECAUSE OF FIRE SEPARATION DISTANCE.
705.11.1 - PARAPET CONSTRUCTION
THE HEIGHT OF THE PARAPET SHALL BE NOT LESS THAN 30 INCHES ABOVE THE POINT WHERE THE ROOF SURFACE AND THE WALL INTERSECT.

707 FIRE BARRIERS

707.3.10 - FIRE AREAS
THE FIRE BARRIERS OR HORIZONTAL ASSEMBLIES, OR BOTH, SEPARATING A SINGLE OCCUPANCY INTO DIFFERENT FIRE AREAS SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN THAT INDICATED IN TABLE 707.3.10. GROUP B OCCUPANCY HAS A FIRE-RESISTANCE RATING OF 2HRS (PER TABLE 707.3.10)

707.4 - EXTERIOR WALLS
WHERE EXTERIOR WALLS SERVE AS A PART OF A REQUIRED FIRE-RESISTANCE-RATED...SEPARATION, SUCH WALLS SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 705 FOR EXTERIOR WALLS AND THE FIRE-RESISTANCE-RATED...SEPARATION REQUIREMENTS SHALL NOT APPLY.

707.5 - CONTINUITY
FIRE BARRIERS SHALL EXTEND FROM THE TOP OF THE FOUNDATION OR FLOOR/CEILING ASSEMBLY BELOW TO THE UNDER-SIDE OF THE FLOOR OR ROOF SHEATHING, SLAB OR DECK ABOVE AND SHALL BE SECURELY ATTACHED THERETO. SUCH FIRE BARRIERS SHALL BE CONTINUOUS THROUGH CONCEALED SPACE, SUCH AS THE SPACE ABOVE A SUSPENDED CEILING. JOINTS AND VOIDS AT INTERSECTIONS SHALL COMPLY WITH SECTIONS 707.8 AND 707.9

707.6 - OPENINGS
OPENINGS IN A FIRE BARRIER SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 716. OPENINGS SHALL BE LIMITED TO A MAXIMUM AGGREGATE WIDTH OF 25 PERCENT OF THE LENGTH OF THE WALL, AND THE MAXIMUM AREA OF ANY SINGLE OPENING SHALL NOT EXCEED 156 SQUARE FEET.

707.8 - JOINTS
JOINTS MADE IN OR BETWEEN FIRE BARRIERS, AND JOINTS MADE AT THE INTERSECTION OF FIRE BARRIERS WITH UNDERSIDE OF A FIRE-RESISTANCE-RATED FLOOR OR ROOF SHEATHING, SLAB OR DECK ABOVE, AND THE EXTERIOR VERTICAL WALL INTERSECTION SHALL COMPLY WITH SECTION 715.

707.9 - VOIDS AT INTERSECTIONS
THE VOIDS CREATED AT THE INTERSECTION OF A FIRE BARRIER AND A NONFIRE-RESISTANCE-RATED ROOF ASSEMBLY OR A NONFIRE-RESISTANCE-RATED EXTERIOR WALL ASSEMBLY SHALL BE FILLED. AN APPROVED MATERIAL OR SYSTEM SHALL BE USED TO FILL THE VOID, AND SHALL BE SECURELY INSTALLED IN OR ON THE INTERSECTION FOR ITS ENTIRE LENGTH SO AS NOT TO DISLODGE, LOOSEN OR OTHERWISE IMPAIR ITS ABILITY TO ACCOMMODATE EXPECTED BUILDING MOVEMENTS AND TO RETARD THE PASSAGE OF FIRE AND HOT GASES.

708 FIRE PARTITIONS

708.1 - GENERAL-
FIRE PARTITIONS ARE PROVIDED AT THE FOLLOWING LOCATIONS - CORRIDOR WALLS AT VESTIBULE AND LOBBY. PER TABLE 1020.1, THESE WALLS ARE NOT REQUIRED TO BE FIRE PARTITIONS (OCCUPANCY GROUP B, WITH SPRINKLER SYSTEM).

722 CALCULATED FIRE RESISTANCE

TABLE 721.1(2) - RATED FIRE-RESISTANCE PERIODS FOR VARIOUS WALLS AND PARTITIONS-
EXISTING EXTERIOR WALL ADJACENT TO THE NEW BUILDING CONSTRUCTION IS CONSTRUCTED OF 8" WIDE CMU BLOCKS WITH CLAY BRICK FACADE. ACCORDING TO TABLE 721.1(2), A CMU WALL NEEDS A MINIMUM THICKNESS OF 3.2" TO BE RATED 2HRS. THE EXISTING WALL USES 8" THICK CMU, IN ADDITION TO CLAY BRICK FACADE, SO THE CALCULATED FIRE RESISTANCE IS 2HR MIN.

CHAPTER 8 — INTERIOR FINISHES

TABLE 803.11 - SPRINKLERED - INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY PER ASTM E 84 OR UL 723

GROUP	EXIT ENCLOSURES	CORRIDORS	ROOMS & ENCLOSED SPACES
B	B	C	C

806 DECORATIVE MATERIALS AND TRIM

806.2 NONCOMBUSTIBLE MATERIALS - THE PERMISSIBLE AMOUNT OF NONCOMBUSTIBLE MATERIALS SHALL NOT BE LIMITED.

CHAPTER 9 — FIRE PROTECTION SYSTEMS

903.3.1.1 PROVIDE NFPA 13 SPRINKLER SYSTEM AT NEW BUILDING AREA.

903.4 SPRINKLER SYSTEM MONITORING & ALARMS - SUPERVISORY SERVICE REQUIRED - ELECTRICALLY MONITORED VALVES PER 901.6 AND 903.4

CHAPTER 10 — MEANS OF EGRESS

1004 OCCUPANT LOAD

TABLE 1004.5 - MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT: SEE OCCUPANT LOAD SUMMARY TABLE ON SHEET LS102

1005 MEANS OF EGRESS SIZING

1005.7.1 DOORS - DOORS, WHEN FULLY OPENED SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN 7 INCHES. DOORS IN ANY POSITION SHALL NOT REDUCE WIDTH BY MORE THAN ONE-HALF

1006 NUMBER OF EXITS AND EXIT ACCESS DOORWAYS

1006.1 GENERAL - THE NUMBER OF EXITS OR EXIT ACCESS DOORWAYS REQUIRED WITHIN THE MEANS OF EGRESS SYSTEM SHALL COMPLY WITH THE PROVISIONS OF SECTION 1006.2 AND SECTION 1006.3 FOR STORIES.
TABLE 1006.2.1 FOR COMMON PATH OR TRAVEL DISTANCES: BUSINESS = 100FT, ASSEMBLY = 75FT

1007 EXIT AND EXIT ACCESS DOOR CONFIGURATION

1007.1.1 - TWO EXITS OR EXIT ACCESS DOORWAYS
EXC 2. WHERE A BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2 THE SEPARATION DISTANCE SHALL BE NOT LESS THAN ONE-THIRD OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE AREA SERVED.

1009 ACCESSIBLE MEANS OF EGRESS

1009.1 - ACCESSIBLE MEANS OF EGRESS REQUIRED
ACCESSIBLE MEANS OF EGRESS SHALL COMPLY WITH THIS SECTION. ACCESSIBLE SPACES SHALL BE PROVIDED WITH NOT LESS THAN ONE ACCESSIBLE MEANS OF EGRESS. WHERE MORE THAN ONE MEANS OF EGRESS ARE REQUIRED BY SECTION 1006.2 OR 1006.3 FROM ANY ACCESSIBLE SPACE, EACH ACCESSIBLE PORTION OF THE SPACE SHALL BE SERVED BY NOT LESS THAN TWO ACCESSIBLE MEANS OF EGRESS.

1009.7 - EXTERIOR AREAS FOR ASSISTED RESCUE
EXTERIOR AREAS FOR ASSISTED RESCUE SHALL BE ACCESSED BY AN ACCESSIBLE ROUTE FROM THE AREA SERVED. WHERE THE EXIT DISCHARGE DOES NOT INCLUDE AN ACCESSIBLE ROUTE FROM AN EXIT LOCATED ON THE LEVEL OF EXIT DISCHARGE TO A PUBLIC WAY, AN EXTERIOR AREA OF ASSISTED RESCUE SHALL BE PROVIDED ON THE EXTERIOR LANDING IN ACCORDANCE WITH SECTIONS 1009.7.1 THROUGH 1009.7.4.

1010 DOORS, GATES, AND TURNSTILES

1010.1.2 - DOOR SWING - DOORS SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL WHEN SERVING AN OCCUPANT LOAD OF 50 OR MORE.

1011 STAIRWAYS

1011.2 STAIRWAY WIDTH AND CAPACITY (EXC 1) STAIRWAYS SERVING AN OCCUPANT LOAD OF LESS THAN 50 SHALL HAVE A WIDTH OF NOT LESS THAN 36 INCHES

1017 EXIT ACCESS TRAVEL DISTANCE BUSINESS = 300 FT, ASSEMBLY = 250 FT

1026 HORIZONTAL EXITS

1026.2 - SEPARATION
THE SEPARATION BETWEEN BUILDINGS OR REFUGE AREAS CONNECTED BY A HORIZONTAL EXIT SHALL BE PROVIDED BY...A FIRE BARRIER COMPLYING WITH SECTION 707...THE MINIMUM FIRE RESISTANCE RATING OF THE SEPARATION SHALL BE 2 HOURS. OPENING PROTECTIVE IN HORIZONTAL EXITS SHALL ALSO COMPLY WITH SECTION 716. DUCT AND AIR TRANSFER OPENINGS IN A...FIRE BARRIER THAT SERVES AS A HORIZONTAL EXIT SHALL ALSO COMPLY WITH SECTION 717.
EXCEPTION: HORIZONTAL EXITS CONSTRUCTED AS FIRE BARRIERS SHALL BE CONTINUOUS FROM EXTERIOR WALL TO EXTERIOR WALL SO AS TO DIVIDE COMPLETELY THE FLOOR SERVED BY THE HORIZONTAL EXIT.

1028 EXIT DISCHARGE

1028.1 - GENERAL
EXC 3. - HORIZONTAL EXITS COMPLYING WITH SECTION 1026 SHALL NOT BE REQUIRED TO DISCHARGE DIRECTLY TO THE EXTERIOR OF THE BUILDING.

CHAPTER 11 — ACCESSIBILITY

1104 ACCESSIBLE ROUTE

1104.3 - CONNECTED SPACES EXC 1 - WHEN A BUILDING PORTION OF A BUILDING IS REQUIRED TO BE ACCESSIBLE, AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED TO EACH PORTION OF THE BUILDING, TO ACCESSIBLE BUILDING ENTRANCES CONNECTING ACCESSIBLE PEDESTRIAN WALKWAYS AND TO THE PUBLIC WAY.

1105 ACCESSIBLE ENTRANCES

1105.1 - PUBLIC ENTRANCES - IN ADDITION TO ACCESSIBLE ENTRANCES REQUIRED BE SECTIONS 1105.1.1 THROUGH 1105.1.7, AT LEAST 60 PERCENT OF ALL PUBLIC ENTRANCES SHALL BE ACCESSIBLE.

CHAPTER 14 — EXTERIOR WALLS

1405 INSTALLATION OF WALL COVERINGS

1405.4.2 MASONRY - FLASHING AND WEEP HOLES IN ANCHORED VENEER SHALL BE LOCATED IN THE FIRST COURSE OF MASONRY ABOVE FINISHED GROUND LEVEL ABOVE THE FOUNDATION WALL OR SLAB, AND OTHER POINTS OF SUPPORT, INCLUDING STRUCTURAL FLOORS, SHELF ANGLES AND LINTELS WHERE ANCHORED VENEERS ARE DESIGNED IN ACCORDANCE WITH SECTION 1405.6.

1406 COMBUSTIBLE MATERIALS ON THE EXTERIOR SIDE OF EXTERIOR WALLS

THE BUILDING IS OF NON-COMBUSTIBLE CONSTRUCTION EXCEPT FOR MATERIALS PERMITTED BY 1406

CHAPTER 29 — PLUMBING SYSTEMS

TABLE 2902.1 MINIMUM NUMBER OF PLUMBING REQUIREMENTS: SEE PLUMBING TABLE ON SHEET LS102

IPC 410 DRINKING FOUNTAINS

410.3.1 MINIMUM NUMBER.
NOT FEWER THAN TWO DRINKING FOUNTAINS SHALL BE PROVIDED. ONE DRINKING FOUNTAIN SHALL COMPLY WITH THE REQUIREMENTS FOR PEOPLE WHO USE A WHEELCHAIR AND ONE DRINKING FOUNTAIN SHALL COMPLY WITH THE REQUIREMENTS FOR STANDING PERSONS.
EXCEPTIONS:
1. A SINGLE DRINKING FOUNTAIN WITH TWO SEPARATE SPOUTS THAT COMPLIES WITH THE REQUIREMENTS FOR PEOPLE WHO USE A WHEELCHAIR AND STANDING PERSONS SHALL BE PERMITTED TO BE SUBSTITUTED FOR TWO SEPARATE DRINKING FOUNTAINS.

410.3.2 MORE THAN THE MINIMUM NUMBER.
WHERE MORE THAN THE MINIMUM NUMBER OF DRINKING FOUNTAINS SPECIFIED IN SECTION 410.3.1 IS PROVIDED, 50 PERCENT OF THE TOTAL NUMBER OF DRINKING FOUNTAINS PROVIDED SHALL COMPLY WITH THE REQUIREMENTS FOR PERSONS WHO USE A WHEELCHAIR AND 50 PERCENT OF THE TOTAL NUMBER OF DRINKING FOUNTAINS PROVIDED SHALL COMPLY WITH THE REQUIREMENTS FOR STANDING PERSONS.

410.4 SUBSTITUTION
IN OCCUPANCIES OTHER THAN RESTAURANTS, WHERE THREE OR MORE DRINKING FOUNTAINS ARE REQUIRED, WATER DISPENSERS SHALL BE PERMITTED TO BE SUBSTITUTED FOR NOT MORE THAN 50 PERCENT OF THE REQUIRED NUMBER OF DRINKING FOUNTAINS.

STATE OF ALABAMA
2522 5471
5821 6438
WILLIAMS BLACKSTOCK ARCHITECTS
5325
REGISTERED ARCHITECT

GADSDEN CITY HALL
100% CONSTRUCTION DOCUMENTS

CITY OF GADSDEN
200 Broad St. Gadsden, AL 35901
23-083

KEY PLAN :

ARCHITECT OF RECORD :
WILLIAMS BLACKSTOCK ARCHITECTS
2204 FIRST AVENUE SOUTH, SUITE 200
BIRMINGHAM, ALABAMA 35233

ISSUE DATE:
11-25-2024

REVISIONS :

NO.	DATE	DESCRIPTION

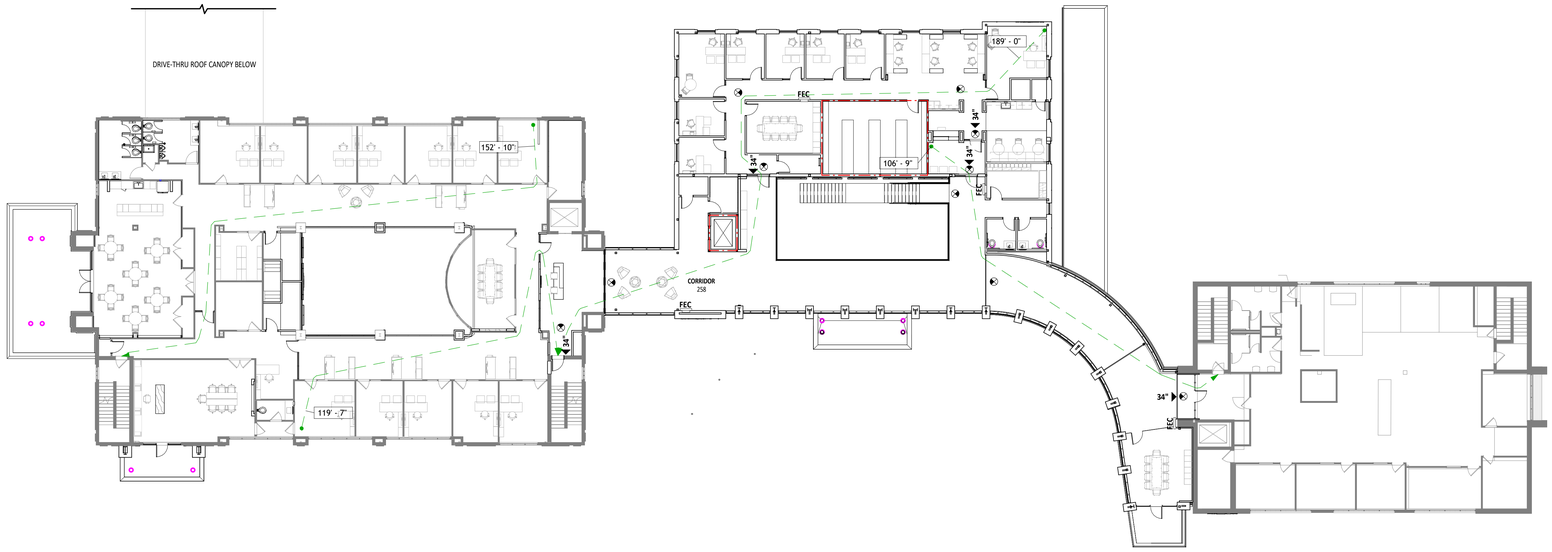
PROJECT NUMBER:
23-083

DRAWING TITLE:
CODE SUMMARY

SHEET NUMBER:
LS001

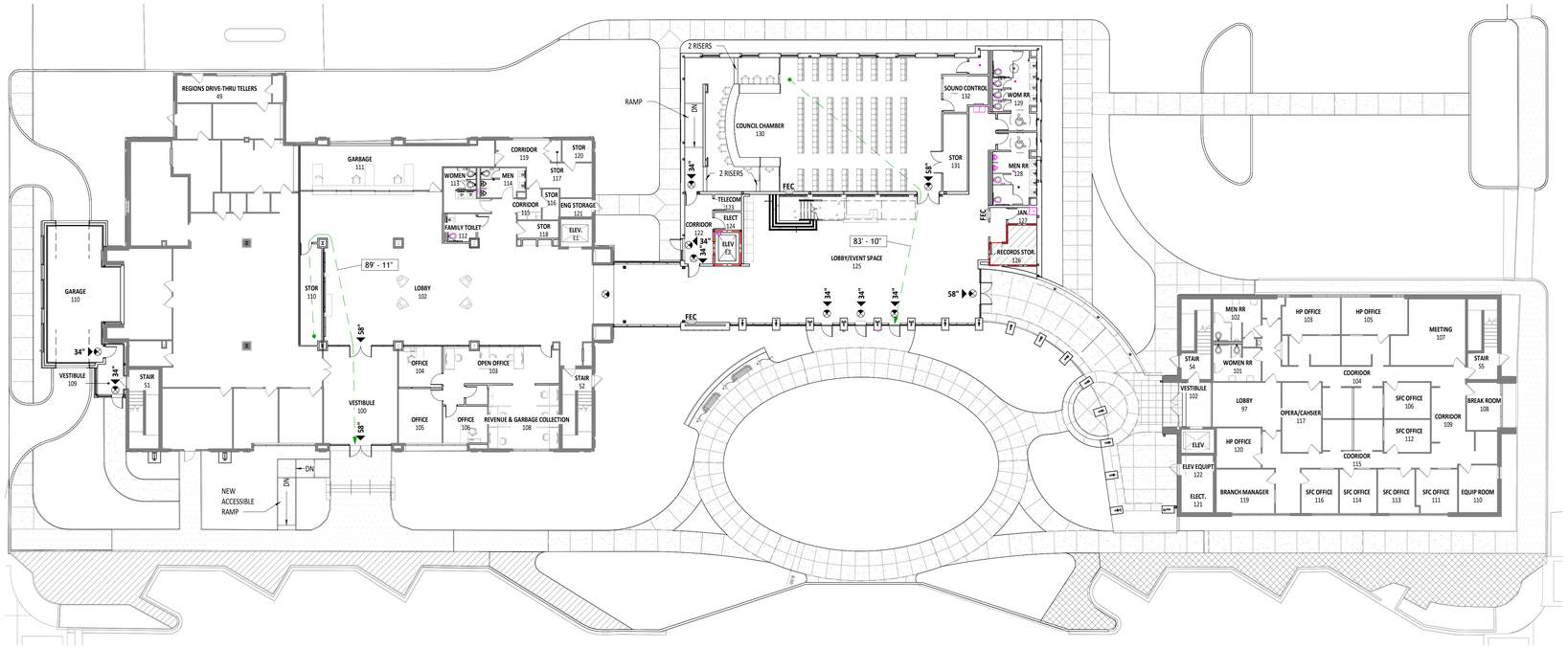
3 3RD FLOOR - LIFE SAFETY PLAN

SCALE: 1/16" = 1'-0" REF: 1/A-200



2 2ND FLOOR - LIFE SAFETY PLAN

SCALE: 1/16" = 1'-0" REF: 1/A-200



1 1ST FLOOR - LIFE SAFETY PLAN

SCALE: 1/16" = 1'-0"

LIFE SAFETY LEGEND

100'	PATH OF EGRESS / EXIT DISTANCE
100	OCCUPANT LOAD AT EXIT
69"	EGRESS WIDTH AT EXIT
	EXIT SIGN (LIGHTED FACE SHADED)
FEC	FIRE EXTINGUISHER CABINET
	SMOKE SCREEN
	SMOKE RESISTANT WALL
	NEW ONE HOUR RATED FIRE BARRIER
	NEW TWO HOUR RATED FIRE BARRIER

STATE OF ALABAMA
2522 5471
5821 6438
WILLIAMS BLACKSTOCK ARCHITECTS
5325
REGISTERED ARCHITECT

GADSDEN CITY HALL

100% CONSTRUCTION DOCUMENTS

CITY OF GADSDEN
200 Broad St., Gadsden, AL 35901
23-083

KEY PLAN:

ARCHITECT OF RECORD:

WILLIAMS BLACKSTOCK ARCHITECTS

2204 FIRST AVENUE SOUTH, SUITE 200
BIRMINGHAM, ALABAMA 35233

ISSUE DATE:

11-25-2024

REVISIONS:

NO.	DATE	DESCRIPTION

PROJECT NUMBER:

23-083

DRAWING TITLE:

LIFE SAFETY PLANS

SHEET NUMBER:

LS101

3 1ST FLOOR - OCCUPANCY PLAN

SCALE: 1/16" = 1'-0" REF: 1 /A-200

OCCUPANT LOAD SUMMARY

LEVEL	FUNCTION OF SPACE	OCCUPANCY CLASSIFICATION	AREA	OCCUPANCY FACTOR	NUMBER OF OCCUPANTS
1ST FLOOR	BUSINESS AREA	GROUP B	20,898 SF	150 SF / PERSON (GROSS)	140
1ST FLOOR	ASSEMBLY (CONCENTRATED)	ASSEMBLY A-3	2,614 SF	7 SF / PERSON (NET)	374
1ST FLOOR	ACCESSORY STOR. / MECH. EQUIP.	STORAGE S-1	1,052 SF	300 SF / PERSON (GROSS)	4
				SUBTOTAL =	518
2ND FLOOR	BUSINESS AREA	GROUP B	18,802 SF	150 SF / PERSON (GROSS)	126
2ND FLOOR	ASSEMBLY (UNCONCENTRATED)	ASSEMBLY A-3	460 SF	15 SF / PERSON (NET)	31
2ND FLOOR	ACCESSORY STOR. / MECH. EQUIP.	STORAGE S-1	1,692 SF	300 SF / PERSON (GROSS)	6
				SUBTOTAL =	163
3RD FLOOR	BUSINESS AREA	GROUP B	9,648 SF	150 SF / PERSON (GROSS)	65
3RD FLOOR	ACCESSORY STOR. / MECH. EQUIP.	STORAGE S-1	372 SF	300 SF / PERSON (GROSS)	2
				SUBTOTAL =	67
				TOTAL =	748

OCCUPANT LOAD / PLUMBING

BUILDING AREAS

BUSINESS AREAS

	OCCUPANT LOAD			PLUMBING											
	TOTAL SQ.FT	OCCUPANT FACTOR	TOTAL OCCUPANTS	WATER CLOSETS LOAD/FIXTURE	REQUIRED M	REQUIRED F		LAVATORIES LOAD/FIXTURE	REQUIRED M	REQUIRED F		DRINKING FOUNTAINS LOAD/FIXTURE	REQUIRED		SERVICE SINKS REQUIRED	
B (BUSINESS)	49,348	150 GSF	331 (165.5M/165.5F)	*	4.31	4.31		**	3.07	3.07		1 PER 100	3.31		1	

*NOTE: INCLUDE 1 PER 25 FOR THE 1ST 50 OCCUPANTS AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50.

**NOTE: INCLUDE 1 PER 40 FOR THE 1ST 80 OCCUPANTS AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80.

ASSEMBLY AREAS

	OCCUPANT LOAD			PLUMBING											
	TOTAL SQ.FT	OCCUPANT FACTOR	TOTAL OCCUPANTS	WATER CLOSETS LOAD/FIXTURE	REQUIRED M	REQUIRED F		LAVATORIES LOAD/FIXTURE	REQUIRED M	REQUIRED F		DRINKING FOUNTAINS LOAD/FIXTURE	REQUIRED		SERVICE SINKS REQUIRED	
A-3 (AUDITORIUM W/OUT FIXED SEATING)				***												
	2,614	7 NSF	374 (187M/187F)		1.50	2.88			0.94	0.94		1 PER 500	0.75			
	460	15 NSF	31 (15.5M/15.5F)		0.13	0.24			0.08	0.08			0.062		1	

***NOTE: INCLUDE 1 PER 65 FEMALE AND 1 PER 125 MALE.

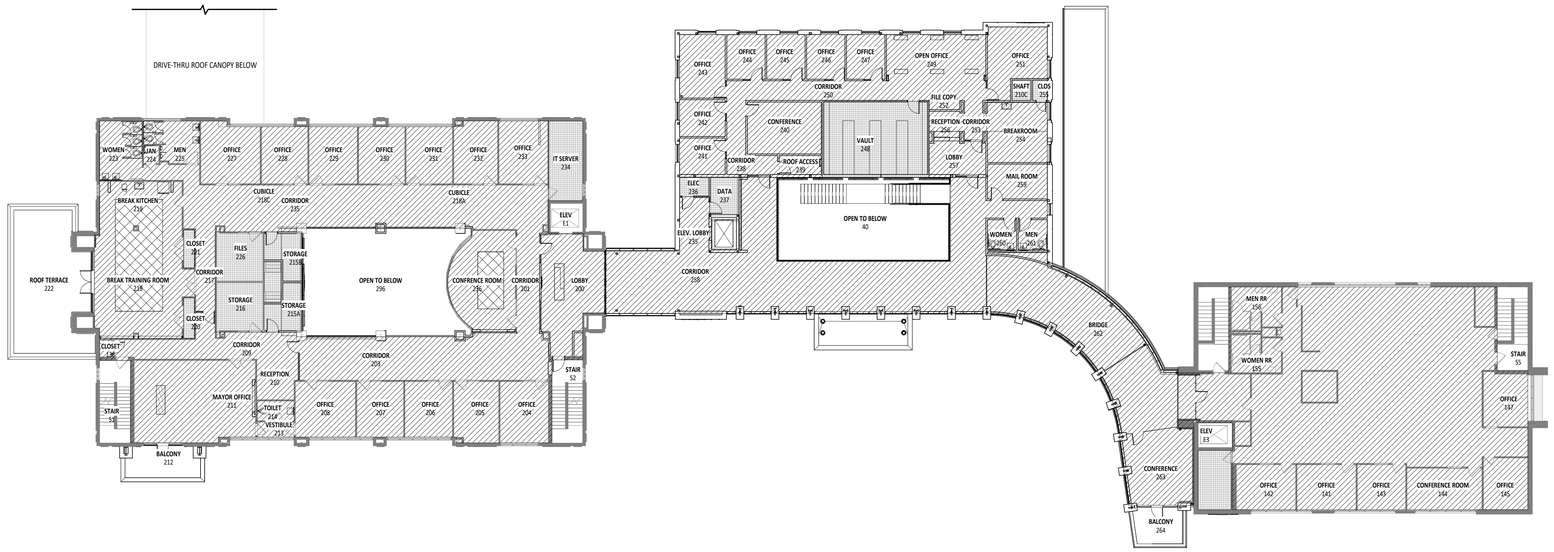
STORAGE

	OCCUPANT LOAD			PLUMBING											
	TOTAL SQ.FT	OCCUPANT FACTOR	TOTAL OCCUPANTS	WATER CLOSETS LOAD/FIXTURE	REQUIRED M	REQUIRED F		LAVATORIES LOAD/FIXTURE	REQUIRED M	REQUIRED F		DRINKING FOUNTAINS LOAD/FIXTURE	REQUIRED		SERVICE SINKS REQUIRED	
S-1 (STORAGE)				1 PER 100	M	F		1 PER 100	M	F		1 PER 1,000				
	3,116	300 SF	12 (8M/8F)		0.06	0.06			0.06	0.06			0.012		1	
				SUBTOTAL	6.00	7.49	PROVIDED		4.15	4.15	PROVIDED		4.134	PROVIDED		PROVIDED
				TOTAL	6	8	19M 16F		5	5	15M 15F		5	4*	3	2

+ 2 IN UNISEX/FAMILY RESTROOMS + 2 IN UNISEX/FAMILY RESTROOMS *SEE CODE SUMMARY FOR DF SUBSTITUTIONS.

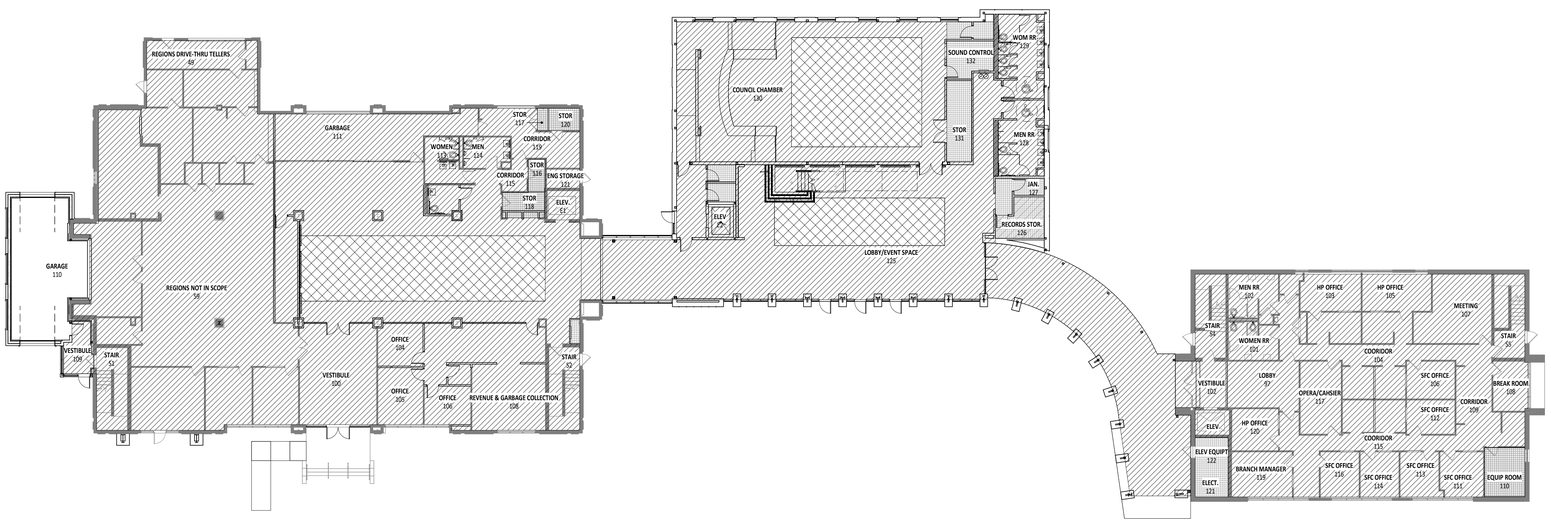
AREA CLASSIFICATION LEGEND

- BUSINESS AREA
- ASSEMBLY AREA (W/OUT FIXED SEATS)
- STORAGE



2 2ND FLOOR - OCCUPANCY PLAN

SCALE: 1/16" = 1'-0" REF: 1 /A-200



1 1ST FLOOR - OCCUPANCY PLAN

SCALE: 1/16" = 1'-0"

STATE OF ALABAMA
2522 5471
5821 6438
WILLIAMS BLACKSTOCK ARCHITECTS
5325
REGISTERED ARCHITECT

GADSDEN CITY HALL

100% CONSTRUCTION DOCUMENTS

CITY OF GADSDEN
200 Broad St. Gadsden, AL 35901
23-083

KEY PLAN :

ARCHITECT OF RECORD :

WILLIAMS BLACKSTOCK ARCHITECTS

2204 FIRST AVENUE SOUTH, SUITE 200
BIRMINGHAM, ALABAMA 35233

ISSUE DATE:

11-25-2024

REVISIONS :

NO.	DATE	DESCRIPTION

PROJECT NUMBER:

23-083

DRAWING TITLE:

BUILDING OCCUPANCY PLANS

SHEET NUMBER:

LS102

LEGEND

GENERAL		UTILITIES	
BENCHMARK		POWER POLE	
WROUGHT IRON FENCE		LIGHT POLE	
SIGN		ANCHOR	
TREE		FIBER JUNCTION BOX	
CONCRETE		FLOODLIGHT	
ASPHALT		ELECTRIC JUNCTION BOX	
AGGREGATE		OVERHEAD ELECTRIC LINE	OE
DEMOLITION LIMITS		BURIED ELECTRIC LINE	BE
EARTHWORK & GRADING		TELEPHONE MANHOLE	
PROPOSED CONTOUR MAJOR	500	TELEPHONE PEDESTAL	
PROPOSED CONTOUR MINOR	501	OVERHEAD TELECOM CABLE	OTC
EXISTING CONTOUR MAJOR	500	BURIED TELECOM CABLE	BTC
EXISTING CONTOUR MINOR	501	BURIED FIBER OPTIC CABLE	BFO
FINISHED FLOOR ELEVATION	100.00	GAS METER	
SPOT ELEVATION	100.00	GAS VALVE	
STORM DRAINAGE		GAS LINE	G
STORM PIPE	STM	IRRIGATION VALVE	
STORM STRUCTURE	D	WATER METER	
ABBREVIATIONS		WATER VALVE	
ASPH	ASPHALT	FIRE HYDRANT	
BM	BENCHMARK	WATER LINE	W
BRCK	BRICK PAVER	SANITARY SEWER MANHOLE	S
CONC	CONCRETE	SANITARY SEWER CLEANOUT	
FDC	FIRE DEPARTMENT CONNECTION	SANITARY SEWER GRAVITY LINE	SS
INV	INVERT	AIR CONDITIONER UNIT	A
ST	STREET	PROPOSED ITEMS SHOWN IN BLACK (OR COLOR). EXISTING ITEMS SHOWN IN GRAY.	
STMD	STORM DRAIN		
TDOM	TRUNCATED DOME		

GENERAL NOTES

1. CDG, INC. (CDG) SHALL NOT HAVE AUTHORITY OVER THE SITE OR BUILDING CONTRACTOR'S WORK OR RESPONSIBILITIES. CDG IS NOT RESPONSIBLE FOR SITE SAFETY PROCEDURES OR METHODS OF CONSTRUCTION.
2. ALL EXISTING IMPROVEMENTS SHALL REMAIN UNLESS SPECIFICALLY NOTED HEREON. UPON FIELD VERIFICATION, IF ANY OF THESE IMPROVEMENTS CONFLICT WITH PROPOSED DESIGN, CONSULT WITH CDG PRIOR TO REMOVAL.
3. CDG SHALL NOT BE RESPONSIBLE FOR ERRORS AND OMISSIONS RESULTING FROM DESIGN MODIFICATIONS MADE AFTER THE RECORD DATE OF THESE PLANS SHOWN HEREON. ADJUSTMENTS TO THESE PLANS MAY BE NECESSARY, PER OWNER REQUEST.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE PURCHASE OF A CONTRACTOR'S LICENSE AND BUSINESS LICENSE FROM THE CITY AND / OR COUNTY AS APPLICABLE, AS WELL AS, ALL OTHER LICENSES AND PERMITS REQUIRED FOR COMPLETION OF THE WORK.
5. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTATION OF PRE-EXISTING CONDITIONS PRESENT WITHIN AND ADJACENT TO THE CONSTRUCTION AREA. DOCUMENTATION OF EXISTING CONDITIONS SHALL CONSIST OF DATE-STAMPED VIDEO, PHOTOGRAPHS, AND WRITTEN RECORDS. COPIES OF ALL DOCUMENTATION SHALL BE DELIVERED TO THE OWNER OR REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES. DOCUMENTATION OF PRE-EXISTING CONDITIONS IS REQUIRED TO AVOID CLAIMS FOR DAMAGE TO PROPERTY.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY HIS ACTIVITIES IN THE PROJECT AREA, WHETHER ON PUBLIC OR PRIVATE PROPERTY. DAMAGE SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITIONS OR BETTER, AND TO THE SATISFACTION OF THE ENGINEER AND LAND OWNER(S). REPAIRS SHALL BE MADE AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITY IN THE PROJECT AREA WITH THE COUNTY, CITY, STATE, AND AFFECTED LANDOWNERS/PARTIES, AS APPLICABLE.
8. WHERE APPLICABLE, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL IN ACCORDANCE WITH THE REQUIREMENTS OF PART 6 OF THE MUTCD, LATEST EDITION, AND IN ACCORDANCE WITH ANY ATTACHED TRAFFIC CONTROL PLAN.
9. UNLESS APPROVED IN ADVANCE BY THE ENGINEER, THE CONTRACTOR SHALL MAINTAIN ACCESS FOR THE TRAVELING PUBLIC AND EMERGENCY VEHICLES ALONG THE PAVED DRIVE. IF A ROAD CLOSURE IS ALLOWED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING SUCH CLOSURES WITH THE CITY ENGINEER AND EMERGENCY AGENCIES, IN ACCORDANCE WITH THOSE PARTIES' REQUIREMENTS.
10. DRIVEWAYS WHICH MAY HAVE BEEN CUT OR OTHERWISE DAMAGED DURING THE CONSTRUCTION ACTIVITIES SHALL BE MAINTAINED IN A USABLE CONDITION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL MAKE A REASONABLE EFFORT TO RE-OPEN DRIVEWAYS AS SOON AS POSSIBLE. IN NO CASE SHALL DRIVEWAYS BE CLOSED OVERNIGHT.
11. ALL EQUIPMENT SHALL BE PARKED AND ALL MATERIALS SHALL BE STORED AT A LOCATION WITHIN CONSTRUCTION LIMITS, AND APPROVED BY SURROUNDING OR AFFECTED LANDOWNERS/PARTIES.
12. EXISTING DRAINAGE SYSTEMS SHALL REMAIN FULLY OPEN THROUGHOUT THE PROJECT DURATION. ANY DISTURBANCE OR DAMAGE TO EXISTING DRAINAGE SYSTEMS AND STRUCTURES SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AND THE CITY, COUNTY, AND/OR STATE AT NO ADDITIONAL COST TO THE OWNER.
13. JOB SITE SHALL BE CLEANED ON A DAILY BASIS. THE CONTRACTOR SHALL RESTORE ALL AREAS, WHETHER PUBLIC OR PRIVATE, AS SOON AS PRACTICABLE FOLLOWING COMPLETION OF PARTICULAR CONSTRUCTION ACTIVITIES.
14. THE CONTRACTOR SHALL REPAIR ALL EXCAVATED AREAS, BACKFILLS, EMBANKMENTS, TRENCHES, AND DITCHES WHICH MAY HAVE SETTLED AT NO ADDITIONAL COST TO THE CLIENT UNTIL FINAL ACCEPTANCE OF THE PROJECT AND THROUGHOUT THE WARRANTY PERIOD.

BEST MANAGEMENT PRACTICES NOTES

I. GENERAL:

THE INTENT OF THIS GENERIC PLAN IS TO PREVENT EROSION AND RESULTING SILT TRANSPORTATION OFF SITE. THE ITEMS INDICATED ARE ENGINEERS BEST ESTIMATE OF REQUIREMENTS; MORE OR LESS MAY BE NEEDED DEPENDING ON THE SITE CONDITION, SEASONS, ETC. CONTRACTOR SHALL INSTALL ADDITIONAL MEASURES AS NECESSARY AS THE PROJECT DEVELOPS AND SITE CONDITIONS CHANGE. ALL EROSION AND SEDIMENT CONTROL STRUCTURES, SYSTEMS, DEVICES, ETC. SHALL MEET OR EXCEED THE GUIDELINES, SCENARIOS, AND PRACTICES OUTLINED IN "THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS" LATEST EDITION. A COPY OF THE DOCUMENT MAY BE OBTAINED FORM THE FOLLOWING WEBSITE; HTTPS://ALCONSERVATIONDISTRICTS.GOV/RESOURCES/EROSION-AND-SEDIMENT-CONTROL/

A. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE CONSTRUCTED PRIOR TO ANY LAND DISTURBING ACTIVITY TAKING PLACE.
B. PLANNED PHASES OF CONSTRUCTION
   1. DEMOLITION/TREE/STUMP REMOVAL (AS PER PLAN)
   2. STRIPING AND STOCKPILING OF TOPSOIL
   3. GRADING OPERATIONS
   4. STORM DRAINAGE AND UTILITY INSTALLATION
   5. FINISH GRADING, CURB & GUTTERS, PAVEMENT AND LANDSCAPING.
C. SPECIAL REQUIREMENTS FOR SENSITIVE AREAS OF THE SITE.
   1. INTERCEPT OFFSITE DRAINAGE, FILTER THROUGH RIPRAP FILTER BERMS OR TEMPORARY SEDIMENT
   2. TRAPS, AND DISCHARGE THROUGH THE STORM SEWER SYSTEM.
   3. RIP-RAP OUTLET PROTECTION SHALL BE INSTALLED AT ALL DOWNSTREAM OUTFALLS, EXCEPT THOSE IN ALDOT RIGHT-OF-WAYS.

II. IMPLEMENTATION:

PLANNED CONSTRUCTION PHASING AND REQUIRED SPECIFIC SEDIMENT AND EROSION CONTROL MEASURES.

A. PHASE 1

STUMP REMOVAL: THIS PHASE OF CONSTRUCTION INVOLVES THE DIGGING UP AND REMOVAL OF STUMPS FROM THE SITE. THIS PHASE COULD ALSO INVOLVE THE BURNING OF STUMPS AS WELL AS HAULING THEM AWAY. THE FOLLOWING WILL APPLY DURING THIS PHASE.

1. CONSTRUCTION OF A "STONE" CONSTRUCTION ENTRANCE/EXIT SHALL BE DONE TO PREVENT SILT FROM BEING DEPOSITED ON ROADWAYS.
2. TEMPORARY CULVERTS SHALL BE PLACED IN DITCHES AND WATERWAYS IF NECESSARY TO GAIN ACCESS INTO THE SITE.
3. SILT FENCES SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER DURING ANY PHASE OF CONSTRUCTION.
4. ALL TREES AND DEBRIS WILL BE KEPT AWAY FROM DITCHES AND STREAMS SO RUN-OFF ACCUMULATING IN THE DITCHES AND STREAMS WILL NOT CARRY BRANCHES AND LIMBS DOWNSTREAM.
5. SWALES OR TEMPORARY DIVERSION SHALL BE CONSTRUCTED AS NECESSARY AND AS SHOWN TO DIVERT RUN-OFF AWAY FROM THE WORK AREA.
6. SILT TRAPS, SEDIMENT BASINS, AND DETENTION PONDS SHALL BE INSTALLED WHERE SHOWN ON THE PLANS IN AND ACCORDANCE WITH DETAILS SHOWN TO CATCH RUNOFF AND FILTER IT PRIOR TO DISCHARGE FROM THE SITE.

B. PHASE 2

TOPSOIL STRIPPING AND STOCKPILING: THIS IS THE PHASE AFTER ALL TREE REMOVAL, STUMP AND DEBRIS REMOVAL. TOPSOIL SHALL BE STRIPPED, SCREENED OF DEBRIS, AND STOCK PILED AT AN APPROVED LOCATION ON SITE.

1. ALL REQUIREMENTS OF PHASE 1 NOTED ABOVE FOR STUMP REMOVAL WILL ALSO APPLY FOR THIS PHASE OF CONSTRUCTION.

C. PHASE 3

GRADING OPERATIONS: THIS PHASE IS THAT TIME WHEN THE EARTH IS BEING MOVED FROM ONE PORTION OF THE SITE TO ANOTHER OR IS BEING HAULED INTO OR HAULED OFF FROM THE SITE. THIS IS A CRITICAL TIME WHEN SEDIMENT AND EROSION CONTROL FACILITIES MUST BE CONSTANTLY CHECKED TO BE SURE THEY ARE EFFECTIVE AND CONSTANTLY CHANGED TO MEET THE CURRENT CONDITIONS. THE FOLLOWING WILL APPLY TO THIS STAGE OF CONSTRUCTION.

1. ALL SEDIMENT CONTROL FACILITIES REQUIRED SHALL BE INSTALLED DURING PHASE 1 AND 2 SHALL BE LEFT IN PLACE AND MAINTAINED UNTIL VEGETATION IS RE-ESTABLISHED TO AN ACCEPTABLE MANNER.
2. WHENEVER A SILT CONTROL FACILITY IS REMOVED BECAUSE OF CHANGING SITE CONDITIONS IT SHALL BE REPLACED WITH ANOTHER MEASURE THAT WILL BE PART OF THE PROGRAM OF SILT AND EROSION CONTROL.
3. CUT SLOPES SHALL BE PROTECTED BY CONSTRUCTING SWALES AT THE TOP OF CUT SLOPES TO INTERCEPT RUNOFF UPGRADE FROM RUNNING DOWN SLOPES UNCONTROLLED. SWALES WILL BE CONSTRUCTED AS NECESSARY WITH RIP-RAP CHECK DAMS OR SILT FENCES CONSTRUCTED IN SWALES AS NECESSARY TO PREVENT EROSION AND SILTATION.
4. FILL SLOPES SHALL BE PROTECTED BY THE CONSTRUCTION OF BERMS AT THE TOP OF ALL FILL SLOPES TO PREVENT UNCONTROLLED RUNOFF DRAINING DOWN FACE OF SLOPES AND CAUSING EROSION AND SILTATION.
5. RUNOFF ACCUMULATING IN BERMS FROM UPGRADING RUNOFF SHALL BE DIRECTED ALONG BERM TO SLOPE DRAINS THAT WILL CARRY RUNOFF DOWN THE SLOPE. SLOPE DRAINS SHALL HAVE INLET SILT PROTECTION TO STOP SILT AT PIPE INLET.
6. SILT FENCES SHALL BE IN PLACE AT THE TOE OF ALL FILL SLOPES.
7. TERRACES, BERMS, SWALES SHALL BE CONSTRUCTED AT INTERMEDIATE LOCATIONS THROUGHOUT THE SITE AS NECASSARY TO CONTROL EROSION AND SEDIMENT TRANSPORT. THESE DIVERSION FACILITIES SHALL BE SUPPLEMENTED AS NECESSARY WITH SILT FENCES AND RIP-RAP FILTER BERMS TO FILTER ACCUMULATED SEDIMENT FROM RUNOFF PRIOR TO DISCHARGE FROM THE SITE.
8. SEDIMENT BASINS SHALL BE INSTALLED IF NECESSARY.
9. SLOPES (CUT AND FILL) THAT ARE CONSTRUCTED IN THE FINAL CONFIGURATION SHALL BE COVERED WITH 4" OF TOPSOIL AND GRASSED AND MULCHED AS SOON AS GRADING IS COMPLETED SO VEGETATION CAN PROTECT SLOPE.
10. PORTIONS OF THE SITE THAT ARE GRADED TO FINAL GRADE AND ARE NOT TO RECEIVE PAVEMENT OR BUILDINGS SHOULD HAVE 4" OF TOPSOIL SPREAD OVER THE SURFACE AND GRASSED AS SOON AS POSSIBLE IN CONSTRUCTION PROCESS. SLOPES STEEPER THAN 3:1 SHALL BE TRACK WALKED PRIOR TO SEEDING. USE PERMANENT RIP-RAP ON ALL SLOPES 2:1 AND STEEPER.THIS PHASE OF CONSTRUCTION IS CRITICAL IN THE EROSION AND SILT CONTROL PROCESS.
11. STORM SEWERS NEED TO BE INSTALLED AS SOON AS POSSIBLE IN THE CONSTRUCTION PROCESS AND CONCURRENT WITH GRADING OPERATIONS TO ENSURE A SUCCESSFUL PROGRAM. RUNOFF SHALL BE DIRECTED TO STORM SEWER SYSTEM AS SOON AS POSSIBLE.
12. TEMPORARY RIPRAP CHECK DAMS SHALL BE INSTALLED IN DITCHES AS SHOWN ON PLANS. CHECK DAMS SHALL BE INSPECTED PERIODICALLY AND SEDIMENT BUILDUP REMOVED TO ENSURE PERFORMANCE. CHECK DAMS MAY BE REMOVED FOLLOWING INSTALLATION OF PERMANENT EROSION CONTROL BLANKETS AND VEGETATION IS PROPERLY ESTABLISHED.

D. PHASE 4

STORM DRAINAGE AND UTILITY INSTALLATION PLAN: THIS PHASE WILL BE DONE AFTER OR CONCURRENT WITH THE GRADING PHASE. STORM SEWERS SHALL BE INSTALLED AND PUT INTO SERVICE AS EARLY IN THE GRADING PROCESS AS POSSIBLE. THE FOLLOWING WILL APPLY TO THIS PHASE OF CONSTRUCTION:

1. ALL ASPECTS OF THE PREVIOUS PHASES SHALL BE MAINTAINED AS APPLICABLE.
2. STORM SEWERS THAT ARE INSTALLED SHALL BE PUT INTO SERVICE IMMEDIATELY. THE INLETS/FLUMES OF ALL STORM SEWERS SHALL BE PROTECTED WITH SILT TRAPS THAT PREVENT SEDIMENT FROM ENTERING PIPE. THIS PROTECTION CAN BE SILT FENCES AND HAYBALES OR RIP-RAP FILTER BERMS AS APPLICABLE AND AS SHOWN ON THE PLANS.
3. RIP-RAP AS SHOWN ON THE PLANS AND AS REQUIRED ON THE SITE WILL BE INSTALLED AT PIPE OUTLETS TO PREVENT EROSION DUE TO VELOCITIES OF WATER IN THE PIPES. THE RIP-RAP SHALL BE EXTENDED DOWNSTREAM AS NEEDED TO PREVENT EROSION.
4. ADDITIONAL SILT FENCING SHALL BE INSTALLED AS NECESSARY TO PREVENT EROSION AND SILTATION RESULTING FROM STOCKPILED EXCAVATION MATERIAL FROM UTILITY INSTALLATION OPERATION.
5. WATTLES SHALL BE INSTALLED IN ALL NEWLY CONSTRUCTED DITCHES AND SWALES AS NECESSARY TO PREVENT EROSION AND SILTATION FROM WASHING DOWNSTREAM.

E. PHASE 5

FINISH GRADING, CURB AND PAVEMENT INSTALLATION, AND LANDSCAPING: THIS IS THE WRAP-UP STAGE WHEN ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES WILL BE PHASED OUT. THE FOLLOWING WILL APPLY TO THIS PHASE:

1. ALL FACILITIES FROM PHASE 1 THROUGH PHASE 4 WILL BE MAINTAINED AS APPROPRIATE AND REMOVED ONLY WHEN NO LONGER NEED OR REPLACED WITH PHASE APPROPRATE BMP.
2. SILT TRAPS AROUND DRAINAGE INLETS/FLUMES WILL BE MAINTAINED, MODIFIED AS NECESSARY AND REMOVED WHEN NEED IS GONE.
3. ALL AREAS NOT RECEIVING PAVEMENT OR BUILDINGS SHALL HAVE 4" OF TOPSOIL SPREAD OVER AREA AND GRASSED PER PLAN, OR HAVE LANDSCAPING, MULCHING AND OR SOD INSTALLED AS APPLICABLE.
4. CONTRACTOR MAY COVER SOME AREAS WITH 2 1/2" THICK GRADED AGGREGATE FOR EROSION CONTROL IN LIEU OF GRASSING. MUST BE APPROVED BY THE ENGINEER
5. TERRACES, BERMS, SWALES SHALL BE CONSTRUCTED AT INTERMEDIATE LOCATIONS THROUGHOUT THE SITE AS NECESSARY TO CONTROL EROSION AND SEDIMENT TRANSPORT. THESE DIVERSION FACILITIES SHALL BE SUPPLEMENTED AS NECESSARY WITH SILT FENCES AND RIP-RAP FILTER BERMS TO FILTER ACCUMULATED SEDIMENT FROM RUNOFF PRIOR TO DISCHARGE FROM THE SITE.
6. SEDIMENT BASINS SHALL BE INSTALLED IF NECESSARY.
7. SLOPES (CUT AND FILL) THAT ARE CONSTRUCTED IN THE FINAL CONFIGURATION SHALL BE COVERED WITH 4" OF TOPSOIL AND GRASSED AND MULCHED AS SOON AS GRADING IS COMPLETED SO VEGETATION CAN PROTECT SLOPE.
8. PORTIONS OF THE SITE THAT ARE GRADED TO FINAL GRADE AND ARE NOT TO RECEIVE PAVEMENT OR BUILDINGS SHOULD HAVE 4" OF TOPSOIL SPREAD OVER THE SURFACE AND GRASSED AS SOON AS POSSIBLE IN CONSTRUCTION PROCESS. THIS PHASE OF CONSTRUCTION IS CRITICAL IN THE EROSION AND SILT CONTROL PROCESS.
9. STORM SEWERS NEED TO BE INSTALLED AS SOON AS POSSIBLE IN THE CONSTRUCTION PROCESS AND CONCURRENT WITH GRADING OPERATIONS TO ENSURE A SUCCESSFUL PROGRAM. RUNOFF SHALL BE DIRECTED TO STORM SEWER SYSTEM AS SOON AS POSSIBLE.

III. LANDSCAPING/SEEDING:

REFER TO THIS SHEET, SECTION VII., SEEDING NOTES FOR ACTUAL REQUIREMENTS FOR THE INSTALLATION OF LIME, FERTILIZER, SEED AND MULCH. GRASSING OPERATIONS SHALL BE DONE THROUGHOUT CONSTRUCTION PROCESS AT THOSE TIMES WHEN PORTIONS OF THE SITE ARE FINISHED AND READY FOR PERMANENT GROUND COVER. THIS WILL REQUIRE MULTIPLE EFFORTS BY THE GRASSING SUBCONTRACTOR TO STABILIZE ALL IMPACTED AREAS OF THE SITE IN AN ORDERLY FASHION. **NO DISTURBED AREA SHALL BE LEFT FOR MORE THAN FOURTEEN (14) DAYS WITHOUT RECEIVING A TEMPORARY OR PERMANENT SEEDING APPLICATION.**

IV. INSPECTION AND MAINTENANCE INSTRUCTIONS:

ALL EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE INSPECTED REGULARLY TO BE SURE THEY ARE EFFECTIVE IN THE EVENT OF RAINFALL. THEY SHALL BE INSPECTED ONCE A WEEK (MINIMUM) AND WITHIN 24 HOURS AFTER EACH RAINFALL EVENT. ANY DAMAGED OR NON-FUNCTIONAL FACILITY SHALL BE REPAIRED IMMEDIATELY. THE FOLLOWING WILL APPLY TO MAINTAINING EROSION AND SEDIMENT CONTROL FACILITIES.

1. SEDIMENT BASINS AND/OR DETENTION PONDS SHALL BE CLEANED OUT WHEN THE LEVEL OF SEDIMENT BUILDUP REACHES THE CLEANOUT POINT INDICATED ON THE DETAIL. SEDIMENT SHALL BE DISPOSED IN SUITABLE AREAS AND IN SUCH A MANNER THAT WILL NOT ERODE OR CAUSE SEDIMENTATION PROBLEMS. THE BASIN EMBANKMENT SHALL BE CHECKED REGULARLY TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT. EMERGENCY SPILLWAYS SHALL BE CHECKED REGULARLY TO ENSURE THAT THEIR LININGS ARE WELL ESTABLISHED AND EROSION RESISTANT.
2. SEDIMENT TRAPS WILL BE CHECKED REGULARLY FOR SEDIMENT CLEANOUT. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED. SEDIMENT REMOVED FROM THE TRAP SHALL BE DEPOSITED IN SUITABLE AREAS AND IN SUCH A MANNER THAT IT WILL NOT ERODE AND CAUSE SEDIMENTATION PROBLEMS.
3. WATTLES WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP WHICH WILL PREVENT DRAINAGE. IF THE WATTLE IS CLOGGED OR DAMAGED, IT SHALL BE REMOVED AND CLEANED OR REPLACED.
4. SILT FENCE BARRIERS WILL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES HALF WAY TO THE TOP OF THE BARRIER.
5. SEEDED AREAS WILL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED AND RESEEDED AS NEEDED.
6. IF ANY FACILITY IS DAMAGED DURING MAINTENANCE, OR OTHERWISE, THE DAMAGED PORTION SHALL BE REMOVED AND REPLACED ACCORDING TO THE INDICATED DETAIL.
7. IF SILT HAS CLOGGED SEDIMENT CONTROL FACILITY AND IT IS NO LONGER EFFECTIVE IN FILTERING SILT, THE STRUCTURE SHALL BE REMOVED AND REPLACED WITH A NEW STRUCTURE IN ACCORDANCE WITH APPLICABLE DETAIL.
8. CONSTRUCTION ENTRANCE SHALL HAVE INDICATED STONE ADDED AS MUD COVERS STONE. DURING MUDDY TIMES, TIRES SHALL BE WASHED PRIOR TO GOING INTO THE STREET.
9. MAINTAINING EFFECTIVENESS: CONTRACTORS QCI SHALL INSPECT OVERALL PERFORMANCE OF EROSION AND SEDIMENT CONTROL FACILITIES AND AREAS DOWNSTREAM. IF SILT IS APPARENT DOWNSTREAM FROM STRUCTURES, SOME FAILURE HAS OCCURRED. IF SEDIMENT IS OBSERVED DOWNSTREAM, IMMEDIATELY NOTIFY THE ENGINEER. ENGINEER WILL INSPECT THE CONDITION AND AFTER INSPECTION, WILL DIRECT THE REMOVAL OF ACCUMULATED SEDIMENT DOWNSTREAM AND INSTALLATION OF ADDITIONAL STRUCTURAL MEASURES AS NECESSARY. CONTRACTOR SHALL IMPLEMENT RECOMMENDED SOLUTIONS TO PROBLEM AREAS AS RECOMMENDED.

V. COMPLETION

PROJECT CLOSE OUT: THE FOLLOWING SHALL BE DONE AT THE END OF THE PROJECT.

1. INSPECT SITE TO BE SURE THAT GROUND COVER IS COMPLETE AND ADEQUATE. IN OTHER WORDS, ALL AREAS ARE EITHER PAVED OR HAVE GOOD GROUND COVER WITH NO EROSION APPARENT. GENERALLY GOOD GROUND COVERAGE OF VEGETATION IS DEFINED AS 85% VEGETATIVE COVER WITH NO AREAS OF EROSION APPARENT.
2. IF ABOVE INSPECTION IS MADE AND APPROVED, ALL STRUCTURAL FACILITIES SHALL BE REMOVED ALONG WITH ANY ACCUMULATED SILT. THE AREAS DISTURBED BY REMOVAL OF STRUCTURES SHALL BE FINE GRADED, GRASSED AND MULCHED.
3. IF INSPECTION IS MADE AND PROBLEMS EXIST, RESOLVE THE PROBLEM, MAKE THE REPAIR, AND MAKE SUBSEQUENT INSPECTION PRIOR TO REMOVAL.

VI. MISCELLANEOUS ISSUES:

1. NO FUEL OR OIL WILL BE STORED ON SITE.
2. NO OILS OR GAS WILL BE DUMPED ON SITE.
3. LOCATION OF TRAILER AND PORT-A-JOHN WILL BE FIELD DETERMINED TO AVOID CONSTRUCTION ACTIVITIES. LOCATION WILL CHANGE DURING CONSTRUCTION AS APPROPRIATE.
4. DEWATERING OPERATIONS MAY BE REQUIRED ON THIS PROJECT. IF REQUIRED, PUMPED GROUND WATER SHALL BE ROUTED THROUGH SILT CONTROL FACILITY TO FILTER WATER PRIOR TO DISCHARGE.
5. PROJECT SITE SHALL BE KEPT CLEAR OF ALL HUMAN AND CONSTRUCTION DEBRIS. CONTRACTOR SHALL HAVE TRASH COLLECTED WEEKLY AND PLACED IN DUMPSTER TO BE HAULED OFF THE SITE.
6. ALL WATER SUPPLY WILL BE PROVIDED FROM PUBLIC WATER SUPPLY.
7. ALL HUMAN WASTE WILL BE IN PORT-A-JOHN OR PUBLIC SEWER SYSTEM TOILET AND DISPOSED OF BY A LICENSED VENDOR OR IN A PUBLIC SANITARY SEWER SYSTEM
8. ANY SPILLED OIL, GAS, ETC., RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE CONTAINED AND CLEANED IMMEDIATELY AND CONTAMINATED SOILS SHALL BE DISPOSED OF IN AN APPROVED MANNER AT A LICENSED LANDFILL.
9. DUST SUPPRESSION OPERATIONS WILL BE DONE BY MEANS OF A WATER TRUCK SPRAYING WATER ON THE SURFACE OF THE SITE.

VII. SEEDING NOTES:

A. PRIOR TO SEEDING, TREAT SOIL AS FOLLOWS:
1. THE CONTRACTOR SHALL BE REQUIRED TO HAVE SOIL TESTED AND FOLLOW RECOMMENDATIONS FOR AMENDING THE SOIL WITH ITEMS SUCH AS LIME, FERTILIZER, ETC. TESTING AND AMENDMENTS SHALL BE A SUBSIDIARY OBLIGATION OF THE APPLICABLE EROSION AND SEDIMENTATION CONTROL ITEM.
2. THOROUGHLY INCORPORATE THE ABOVE AMENDMENTS INTO THE FIRST TWO TO THREE INCHES OF SOIL. AFTER SEEDING, FIRM THE SEEDS INTO THE TOP 1/4" OF SOIL. GRADE AREAS TO BE SEEDED TO INSURE PROPER DRAINAGE WITH EVEN GRADES. MULCH IMMEDIATELY AFTER SEEDING WITH EITHER STRAW, HAY OR WOOD CELLULOSE FIBER. STRAW OR HAY SHALL BE APPLIED AT A RATE OF 100 LBS./1000 SF. HAY OR STRAW SHALL BE STABILIZED WITH AN ADHESIVE. ALL SLOPES WHICH 3:1 OR STEEPER SHALL BE HYDROSEEDED AT A MINIMUM. WATER AS REQUIRED TO ESTABLISH SEED. ALL AREAS THAT DO NOT SHOW 85% COVER SHALL BE RESEEDED UNTIL PERMANENT GRASS HAS BEEN ESTABLISHED WITH NO BARE AREAS OR WASHOUTS. AFTER GRASS HAS SHOWN GROWTH (APPROXIMATELY 40 DAYS) AND WHILE SOIL SURFACE IS MOIST, THE CONTRACTOR SHALL ADD ANY RECOMMENDED TOP DRESSING FROM SOIL TEST.

B. TEMPORARY SEEDING SHALL BE PERFORMED IF A DISTURBED AREA IS LEFT UNATTENDED FOR (14) OR MORE DAYS. APPLY SEED AS FOLLOWS:

ANNUAL RYE GRASS	50 LB./AC.
KENTUCKY 31 TALL FESCUE	30 LB./AC.

C. ALL DISTURBED AREAS SHALL RECEIVE PERMANENT SEEDING UNLESS OTHERWISE NOTED. PERMANENT SEEDING SHALL BE PERFORMED UPON COMPLETION OF FINAL GRADING AND TOPSOIL PLACEMENT. APPLY SEED AS FOLLOWS:

MARCH THROUGH AUGUST

BERMUDA GRASS (HULLED)	20 LB./AC.
KENTUCKY 31 TALL FESCUE	30 LB./AC.
ANNUAL RYE GRASS	50 LB./AC.

SEPTEMBER THROUGH FEBRUARY

BERMUDA GRASS (UNHULLED)	20 LB./AC.
KENTUCKY 31 TALL FESCUE	30 LB./AC.
ANNUAL RYE GRASS	50 LB./AC.

NOTE: DISTURBED AREAS WITH LIMITED SUNLIGHT MAY REQUIRE SHADE MIXES FOR THE PERMANENT ESTABLISHMENT OF GRASS. SPECIALIZED MIXES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO SEEDING.

D. ALL TEMPORARY/PERMANENT SEEDING AND MULCHING SHALL BE PERFORMED USING HYDRO-SEEDING AND/OR MECHANICAL MULCH SPREADER METHODS.
E. HYDRO-SEEDING AND/OR EROSION CONTROL BLANKETS ARE REQUIRED ON ALL SLOPES 3:1 AND STEEPER, OR AS SITE CONDITIONS DICTATE FOR FOR THE PERMANENT ESTABLISHMENT OF GRASS.
F. ALL PERMANENT SEEDING AREAS SHALL RECEIVE 3" MIN. TOPSOIL LAYER.

ALABAMA LICENSED No. 50006 PROFESSIONAL ENGINEER 11/22/24 JARED KEITH LONG

GADSDEN CITY HALL
100% CONSTRUCTION DOCUMENTS
CITY OF GADSDEN
200 Broad St, Gadsden, AL 35901
23-083

KEY PLAN :

ENGINEER OF RECORD :

CDG
224 BROAD ST., SUITE 201
GADSDEN, ALABAMA 35901
PH: (256) 543-9431

ISSUE DATE:
11-25-2024

REVISIONS :

NO.	DATE	DESCRIPTION

PROJECT NUMBER:
23-083

DRAWING TITLE:
PROJECT NOTES & LEGEND

SHEET NUMBER:
C-101

C-101 NOTES & LEGEND.dwg

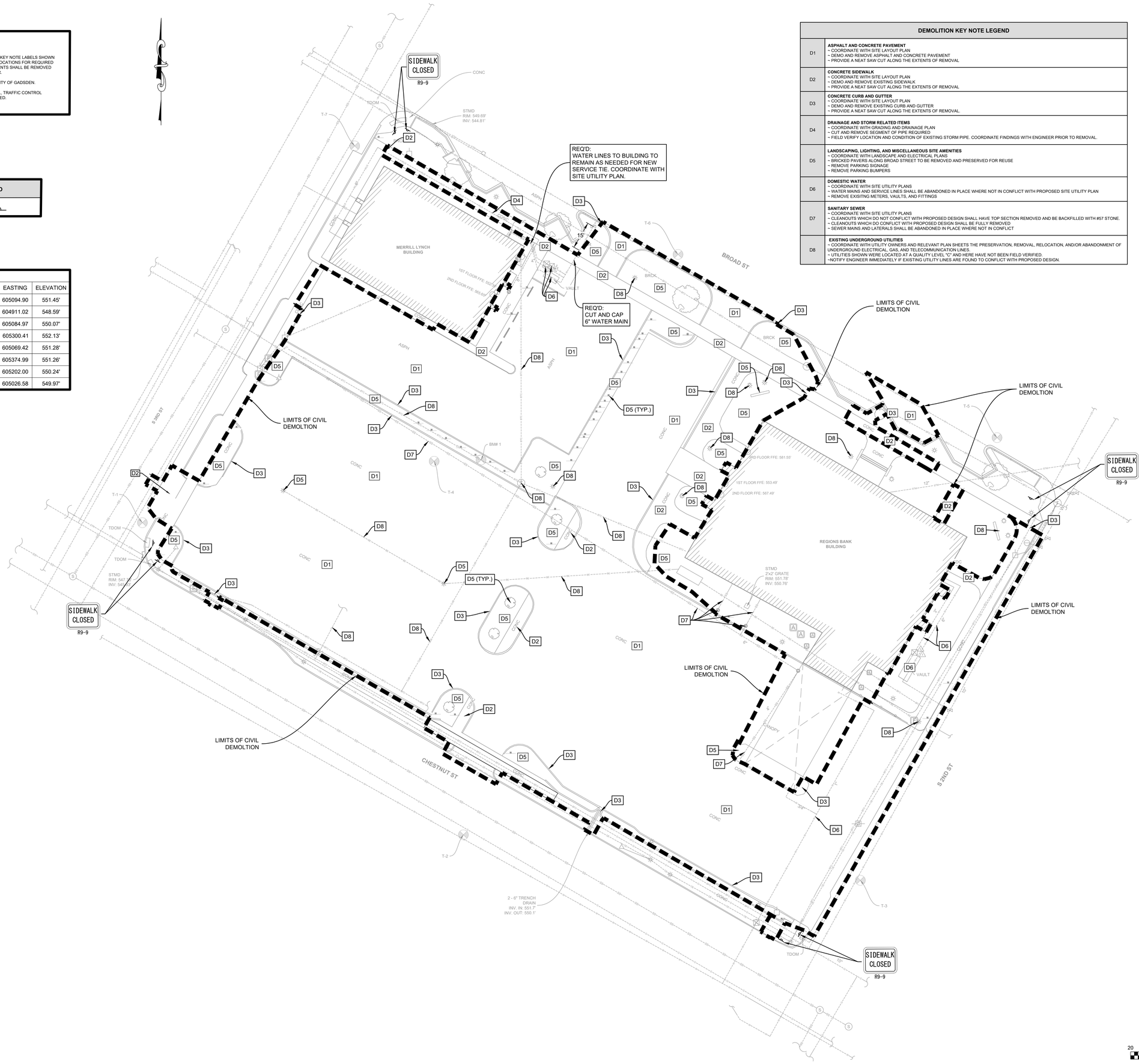
DEMOLITION NOTES

1. DEMOLITION WORK LISTED ABOVE IS THE REQUIRED MINIMUM. KEY NOTE LABELS SHOWN HERE ON ARE TYPICAL IN NATURE AND DO NOT IDENTIFY ALL LOCATIONS FOR REQUIRED DEMOLITION. ITEMS IN CONFLICT WITH PROPOSED IMPROVEMENTS SHALL BE REMOVED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
2. COORDINATE ALL SIDEWALK AND LANE CLOSURES WITH THE CITY OF GADSDEN.
3. CONTRACTOR TO PROVIDE ALL NECESSARY TRAFFIC CONTROL, TRAFFIC CONTROL SIGNAGE AND TEMPORARY CONSTRUCTION FENCING AS NEEDED.

TRAFFIC CONTROL LEGEND	
SIDEWALK CLOSED SIGN R9-9	

BENCHMARK TABLE

ID	MATERIAL	NORTHING	EASTING	ELEVATION
BM# 1	MAG NAIL	1277604.66	605094.90	551.45'
T-1	MAG NAIL	1277570.87	604911.02	548.59'
T-2	MAG NAIL	1277401.17	605084.97	550.07'
T-3	MAG NAIL	1277376.12	605300.41	552.13'
T-4	MAG NAIL	1277603.93	605069.42	551.28'
T-5	MAG NAIL	1277616.27	605374.99	551.26'
T-6	MAG NAIL	1277715.99	605202.00	550.24'
T-7	MAG NAIL	1277775.16	605026.58	549.97'



DEMOLITION KEY NOTE LEGEND	
D1	**ASPHALT AND CONCRETE PAVEMENT** ~ COORDINATE WITH SITE LAYOUT PLAN ~ DEMO AND REMOVE ASPHALT AND CONCRETE PAVEMENT ~ PROVIDE A NEAT SAW CUT ALONG THE EXTENTS OF REMOVAL
D2	**CONCRETE SIDEWALK** ~ COORDINATE WITH SITE LAYOUT PLAN ~ DEMO AND REMOVE EXISTING SIDEWALK ~ PROVIDE A NEAT SAW CUT ALONG THE EXTENTS OF REMOVAL
D3	**CONCRETE CURB AND GUTTER** ~ COORDINATE WITH SITE LAYOUT PLAN ~ DEMO AND REMOVE EXISTING CURB AND GUTTER ~ PROVIDE A NEAT SAW CUT ALONG THE EXTENTS OF REMOVAL.
D4	**DRAINAGE AND STORM RELATED ITEMS** ~ COORDINATE WITH GRADING AND DRAINAGE PLAN ~ CUT AND REMOVE SEGMENT OF PIPE REQUIRED ~ FIELD VERIFY LOCATION AND CONDITION OF EXISTING STORM PIPE. COORDINATE FINDINGS WITH ENGINEER PRIOR TO REMOVAL.
D5	**LANDSCAPING, LIGHTING, AND MISCELLANEOUS SITE AMENITIES** ~ COORDINATE WITH LANDSCAPE AND ELECTRICAL PLANS ~ BRICKED PAVERS ALONG BROAD STREET TO BE REMOVED AND PRESERVED FOR REUSE ~ REMOVE PARKING SIGNAGE ~ REMOVE PARKING BUMPERS
D6	**DOMESTIC WATER** ~ COORDINATE WITH SITE UTILITY PLANS ~ WATER MAINS AND SERVICE LINES SHALL BE ABANDONED IN PLACE WHERE NOT IN CONFLICT WITH PROPOSED SITE UTILITY PLAN ~ REMOVE EXISITNG METERS, VAULTS, AND FITTINGS
D7	**SANITARY SEWER** ~ COORDINATE WITH SITE UTILITY PLANS ~ CLEANOUTS WHICH DO NOT CONFLICT WITH PROPOSED DESIGN SHALL HAVE TOP SECTION REMOVED AND BE BACKFILLED WITH #57 STONE. ~ CLEANOUTS WHICH DO CONFLICT WITH PROPOSED DESIGN SHALL BE FULLY REMOVED ~ SEWER MAINS AND LATERALS SHALL BE ABANDONED IN PLACE WHERE NOT IN CONFLICT
D8	**EXISTING UNDERGROUND UTILITIES** ~ COORDINATE WITH UTILITY OWNERS AND RELEVANT PLAN SHEETS THE PRESERVATION, REMOVAL, RELOCATION, AND/OR ABANDONMENT OF UNDERGROUND ELECTRICAL, GAS, AND TELECOMMUNICATION LINES. ~ UTILITIES SHOWN WERE LOCATED AT A QUALITY LEVEL "C" AND HERE HAVE NOT BEEN FIELD VERIFIED. ~NOTIFY ENGINEER IMMEDIATELY IF EXISTING UTILITY LINES ARE FOUND TO CONFLICT WITH PROPOSED DESIGN.

SCALE IN FEET: 20 0 20

ALABAMA LICENSED No. 50006 PROFESSIONAL ENGINEER JARED KEITH LONG 11/22/24

GADSDEN CITY HALL
100% CONSTRUCTION DOCUMENTS
CITY OF GADSDEN
200 Broad St, Gadsden, AL 35901
23-083

KEY PLAN:

ENGINEER OF RECORD:

CDG
224 BROAD ST., SUITE 201
GADSDEN, ALABAMA 35901
PH: (256) 543-9431

ISSUE DATE:
11-25-2024

REVISIONS:

NO.	DATE	DESCRIPTION

PROJECT NUMBER:
23-083

DRAWING TITLE:
SITE DEMOLITION PLAN

SHEET NUMBER:
C-102

C-102 DEMOLITION & GEOMETRIC CONTROL PLAN.dwg

SITE NOTES

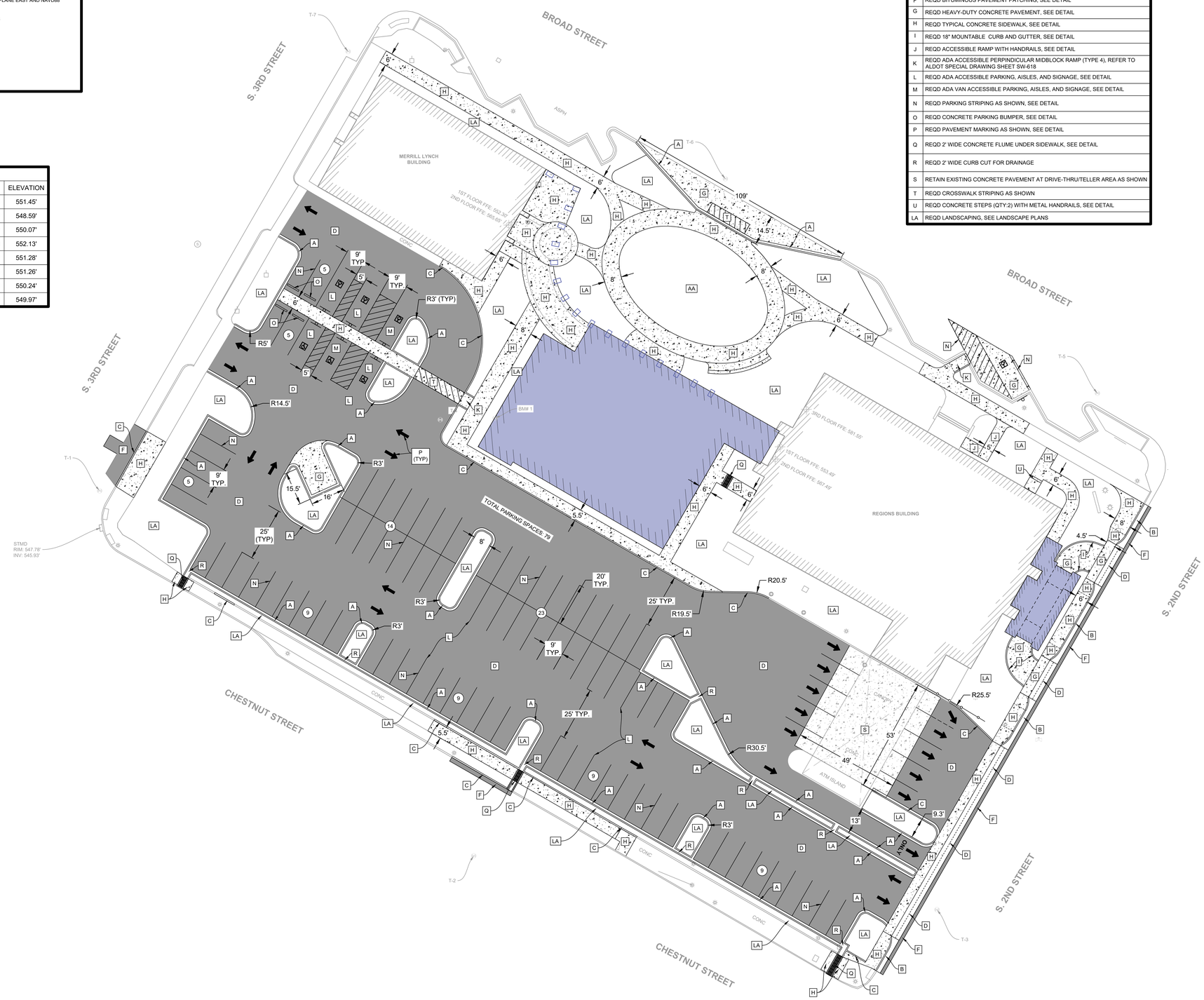
1. IT IS CONTRACTOR'S RESPONSIBILITY TO PROVIDE CONSTRUCTION LAYOUT AND GRADE STAKING.
2. UPON REQUEST, CDG WILL PROVIDE ELECTRONIC CIVIL DESIGN FILES IN DWG FORMAT.
3. WHERE APPLICABLE, DIMENSIONS SHOWN HEREON ARE TO THE BACK OF CURB.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL BENCHMARKS AND PROPERTY CORNERS. ANY REPLACEMENT WILL BE AT THE CONTRACTOR'S EXPENSE
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS REQUIRED TO CONSTRUCT THIS PROJECT. ALL PERMITS MUST BE IN-HAND PRIOR TO CONSTRUCTION.
6. HORIZONTAL AND VERTICAL DATUMS USED IN DESIGN ARE NAD83 AL STATE PLANE EAST AND NAVD88 RESPECTIVELY.
7. NOTIFY ENGINEER IMMEDIATELY IF ANY ERRORS OR OMISSIONS ARE FOUND.

BENCHMARK TABLE

ID	MATERIAL	NORTHING	EASTING	ELEVATION
BM# 1	MAG NAIL	1277604.66	605094.90	551.45'
T-1	MAG NAIL	1277570.87	604911.02	548.59'
T-2	MAG NAIL	1277401.17	605084.97	550.07'
T-3	MAG NAIL	1277376.12	605300.41	552.13'
T-4	MAG NAIL	1277603.93	605069.42	551.28'
T-5	MAG NAIL	1277616.27	605374.99	551.26'
T-6	MAG NAIL	1277715.99	605202.00	550.24'
T-7	MAG NAIL	1277775.16	605026.58	549.97'

KEY NOTE LEGEND

A	REQD 18" COMBINATION CURB AND GUTTER, SEE DETAIL
B	REQD 30" COMBINATION CURB & GUTTER, SEE DETAIL
C	REQD CONCRETE TYPE "A" CURB, SEE DETAIL
D	REQD 48" WIDE CONCRETE VALLEY GUTTER
E	REQD MEDIUM-DUTY BITUMINOUS PAVEMENT, SEE DETAIL
F	REQD BITUMINOUS PAVEMENT PATCHING, SEE DETAIL
G	REQD HEAVY-DUTY CONCRETE PAVEMENT, SEE DETAIL
H	REQD TYPICAL CONCRETE SIDEWALK, SEE DETAIL
I	REQD 18" MOUNTABLE CURB AND GUTTER, SEE DETAIL
J	REQD ACCESSIBLE RAMP WITH HANDRAILS, SEE DETAIL
K	REQD ADA ACCESSIBLE PERPINDICULAR MIDBLOCK RAMP (TYPE 4), REFER TO ALDOT SPECIAL DRAWING SHEET SW-618
L	REQD ADA ACCESSIBLE PARKING, AISLES, AND SIGNAGE, SEE DETAIL
M	REQD ADA VAN ACCESSIBLE PARKING, AISLES, AND SIGNAGE, SEE DETAIL
N	REQD PARKING STRIPING AS SHOWN, SEE DETAIL
O	REQD CONCRETE PARKING BUMPER, SEE DETAIL
P	REQD PAVEMENT MARKING AS SHOWN, SEE DETAIL
Q	REQD 2' WIDE CONCRETE FLUME UNDER SIDEWALK, SEE DETAIL
R	REQD 2' WIDE CURB CUT FOR DRAINAGE
S	RETAIN EXISTING CONCRETE PAVEMENT AT DRIVE-THRU/TELLER AREA AS SHOWN
T	REQD CROSSWALK STRIPING AS SHOWN
U	REQD CONCRETE STEPS (QTY:2) WITH METAL HANDRAILS, SEE DETAIL
LA	REQD LANDSCAPING, SEE LANDSCAPE PLANS



20 0 20
SCALE IN FEET

ALABAMA LICENSED No. 50006 PROFESSIONAL ENGINEER 11/22/24 JARED KEITH LOWE

GADSDEN CITY HALL
100% CONSTRUCTION DOCUMENTS
CITY OF GADSDEN
200 Broad St, Gadsden, AL 35901
23-083

KEY PLAN:

ENGINEER OF RECORD:

CDG
324 BROAD ST., SUITE 201
GADSDEN, ALABAMA 35901
PH: (256) 543-9431

ISSUE DATE:
11-25-2024

REVISIONS:

NO.	DATE	DESCRIPTION

PROJECT NUMBER:
23-083

DRAWING TITLE:
SITE LAYOUT PLAN

SHEET NUMBER:
C-301

C-301 SITE LAYOUT PLAN.dwg

GRADING AND DRAINAGE NOTES

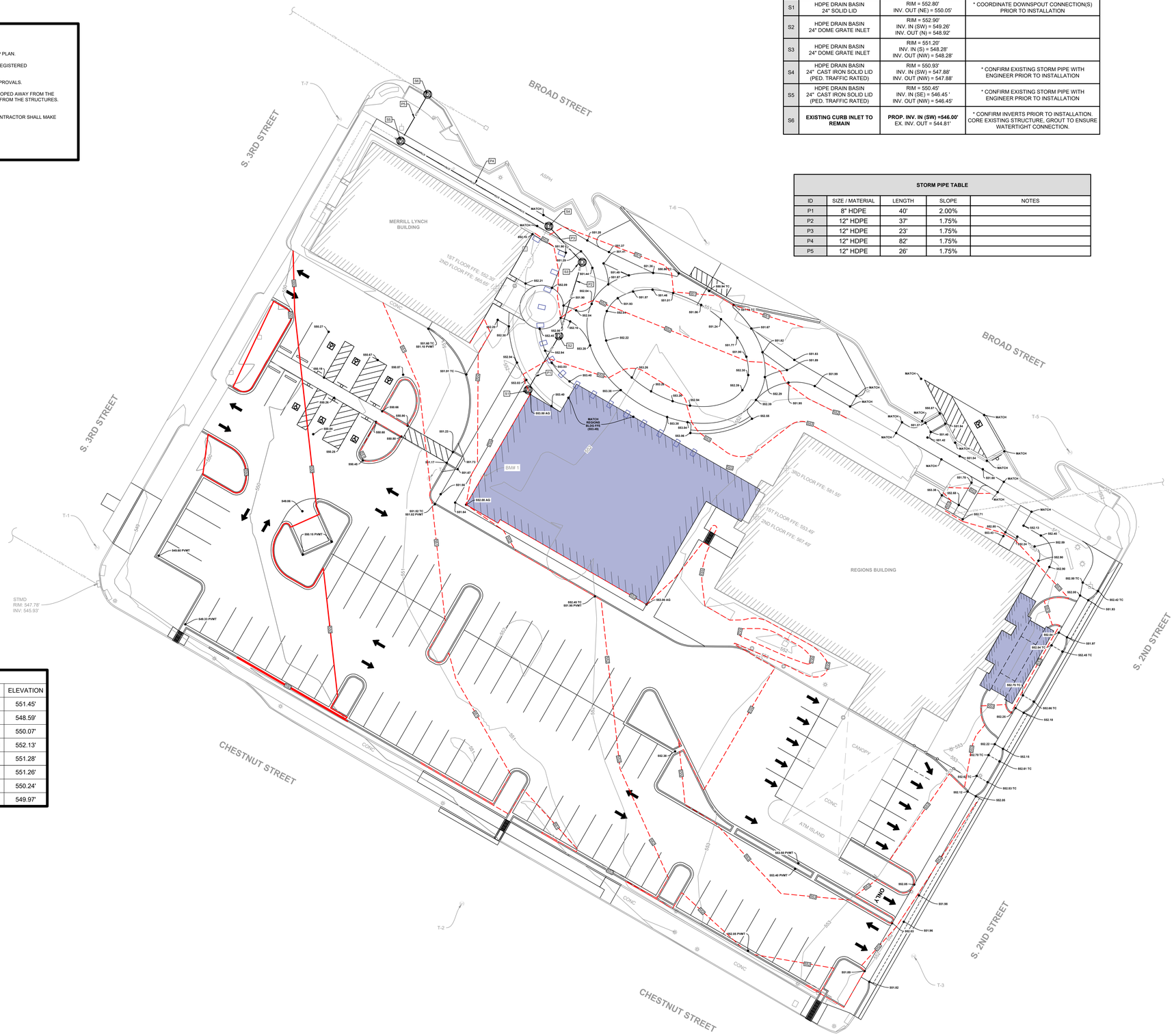
1. COORDINATE THE SEQUENCING OF ALL GRADING OPERATIONS WITH THE BMP PLAN.
2. ALL EARTHWORK ACTIVITIES SHALL BE COORDINATED AND APPROVED BY A REGISTERED GEOTECHNICAL ENGINEER.
3. NO GRADING OFF-SITE OR IN ANY ROAD RIGHT-OF-WAY WITHOUT PROPER APPROVALS.
4. ALL GRADING ADJACENT TO EXISTING OR PROPOSED BUILDINGS SHALL BE SLOPED AWAY FROM THE STRUCTURES. THE CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM THE STRUCTURES. NOTIFY CDG OF ANY DISCREPANCIES.
5. PROPOSED GRADES INDICATED ON THIS PLAN ARE TO FINISH GRADE. THE CONTRACTOR SHALL MAKE SUBGRADE ADJUSTMENTS FOR TOPSOIL, PAVEMENT, BUILDING PAD, ETC.

STORM STRUCTURE TABLE

ID	TYPE	ELEVATIONS	NOTES
S1	HDPE DRAIN BASIN 24" SOLID LID	RIM = 552.80' INV. OUT (NE) = 550.05'	* COORDINATE DOWNSPOUT CONNECTION(S) PRIOR TO INSTALLATION
S2	HDPE DRAIN BASIN 24" DOME GRATE INLET	RIM = 552.90' INV. IN (SW) = 549.26' INV. OUT (N) = 548.92'	
S3	HDPE DRAIN BASIN 24" DOME GRATE INLET	RIM = 551.20' INV. IN (S) = 548.28' INV. OUT (NW) = 548.28'	
S4	HDPE DRAIN BASIN 24" CAST IRON SOLID LID (PED. TRAFFIC RATED)	RIM = 550.93' INV. IN (SW) = 547.88' INV. OUT (NW) = 547.88'	* CONFIRM EXISTING STORM PIPE WITH ENGINEER PRIOR TO INSTALLATION
S5	HDPE DRAIN BASIN 24" CAST IRON SOLID LID (PED. TRAFFIC RATED)	RIM = 550.45' INV. IN (SE) = 546.45 ' INV. OUT (NW) = 546.45'	* CONFIRM EXISTING STORM PIPE WITH ENGINEER PRIOR TO INSTALLATION
S6	**EXISTING CURB INLET TO REMAIN**	**PROP. INV. IN (SW) =546.00'** EX. INV. OUT = 544.81'	* CONFIRM INVERTS PRIOR TO INSTALLATION. CORE EXISTING STRUCTURE, GROUT TO ENSURE WATERTIGHT CONNECTION.

STORM PIPE TABLE

ID	SIZE / MATERIAL	LENGTH	SLOPE	NOTES
P1	8" HDPE	40'	2.00%	
P2	12" HDPE	37'	1.75%	
P3	12" HDPE	23'	1.75%	
P4	12" HDPE	82'	1.75%	
P5	12" HDPE	26'	1.75%	



BENCHMARK TABLE

ID	MATERIAL	NORTHING	EASTING	ELEVATION
BM# 1	MAG NAIL	1277604.66	605094.90	551.45'
T-1	MAG NAIL	1277570.87	604911.02	548.59'
T-2	MAG NAIL	1277401.17	605084.97	550.07'
T-3	MAG NAIL	1277376.12	605300.41	552.13'
T-4	MAG NAIL	1277603.93	605069.42	551.28'
T-5	MAG NAIL	1277616.27	605374.99	551.26'
T-6	MAG NAIL	1277715.99	605202.00	550.24'
T-7	MAG NAIL	1277775.16	605026.58	549.97'

20 0 20
SCALE IN FEET

ALABAMA LICENSED No. 50096 PROFESSIONAL ENGINEER JARED KEITH LOWE 11/22/24

GADSDEN CITY HALL
100% CONSTRUCTION DOCUMENTS
CITY OF GADSDEN
200 Broad St, Gadsden, AL 35901
23-083

KEY PLAN:

ENGINEER OF RECORD:

CDG
224 BROAD ST., SUITE 201
GADSDEN, ALABAMA 35901
PH: (256) 543-9431

ISSUE DATE:
11-25-2024

REVISIONS:

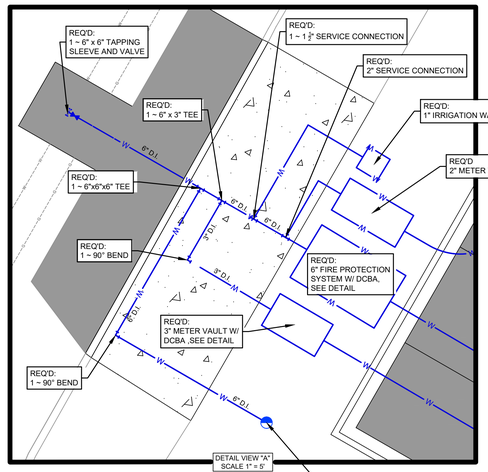
NO.	DATE	DESCRIPTION

PROJECT NUMBER:
23-083

DRAWING TITLE:
GRADING & DRAINAGE PLAN

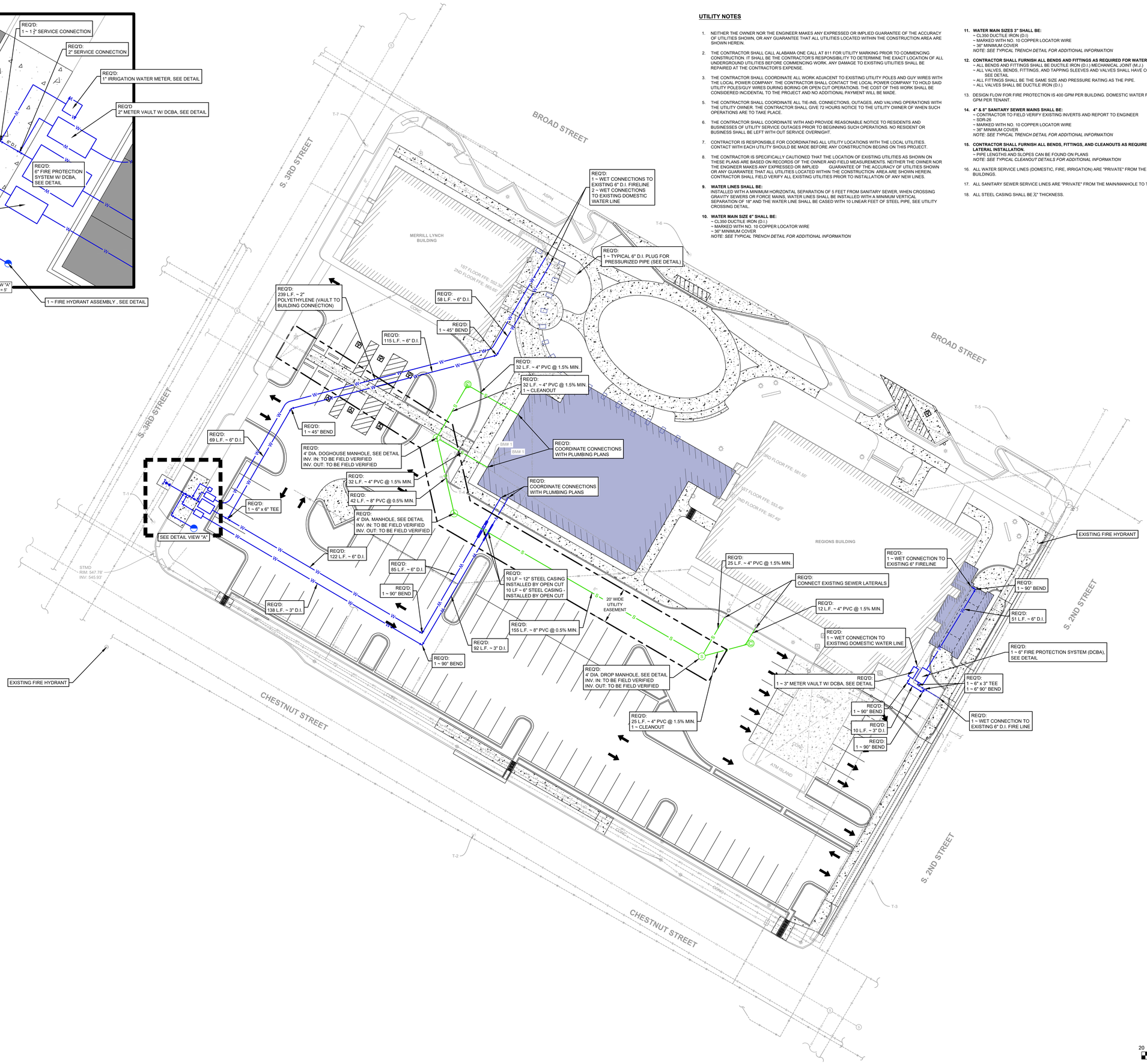
SHEET NUMBER:
C-302

C-302 GRADING & DRAINAGE PLAN.dwg



UTILITY NOTES

1. NEITHER THE OWNER NOR THE ENGINEER MAKES ANY EXPRESSED OR IMPLIED GUARANTEE OF THE ACCURACY OF UTILITIES SHOWN, OR ANY GUARANTEE THAT ALL UTILITIES LOCATED WITHIN THE CONSTRUCTION AREA ARE SHOWN HEREIN.
2. THE CONTRACTOR SHALL CALL ALABAMA ONE CALL AT 811 FOR UTILITY MARKING PRIOR TO COMMENCING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE COMMENCING WORK. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
3. THE CONTRACTOR SHALL COORDINATE ALL WORK ADJACENT TO EXISTING UTILITY POLES AND GUY WIRES WITH THE LOCAL POWER COMPANY. THE CONTRACTOR SHALL CONTACT THE LOCAL POWER COMPANY TO HOLD SAID UTILITY POLES/GUY WIRES DURING BORING OR OPEN CUT OPERATIONS. THE COST OF THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL PAYMENT WILL BE MADE.
5. THE CONTRACTOR SHALL COORDINATE ALL TIE-INS, CONNECTIONS, OUTAGES, AND VALVING OPERATIONS WITH THE UTILITY OWNER. THE CONTRACTOR SHALL GIVE 72 HOURS NOTICE TO THE UTILITY OWNER OF WHEN SUCH OPERATIONS ARE TO TAKE PLACE.
6. THE CONTRACTOR SHALL COORDINATE WITH AND PROVIDE REASONABLE NOTICE TO RESIDENTS AND BUSINESSES OF UTILITY SERVICE OUTAGES PRIOR TO BEGINNING SUCH OPERATIONS. NO RESIDENT OR BUSINESS SHALL BE LEFT WITH OUT SERVICE OVERNIGHT.
7. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL UTILITY LOCATIONS WITH THE LOCAL UTILITIES. CONTACT WITH EACH UTILITY SHOULD BE MADE BEFORE ANY CONSTRUCTION BEGINS ON THIS PROJECT.
8. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE OWNER AND FIELD MEASUREMENTS. NEITHER THE OWNER NOR THE ENGINEER MAKES ANY EXPRESSED OR IMPLIED GUARANTEE OF THE ACCURACY OF UTILITIES SHOWN OR ANY GUARANTEE THAT ALL UTILITIES LOCATED WITHIN THE CONSTRUCTION AREA ARE SHOWN HEREIN. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF ANY NEW LINES.
9. **WATER LINES SHALL BE:**
   INSTALLED WITH A MINIMUM HORIZONTAL SEPARATION OF 5 FEET FROM SANITARY SEWER, WHEN CROSSING GRAVITY SEWERS OR FORCE MAINS, WATER LINES SHALL BE INSTALLED WITH A MINIMUM VERTICAL SEPARATION OF 18" AND THE WATER LINE SHALL BE CASED WITH 10 LINEAR FEET OF STEEL PIPE, SEE UTILITY CROSSING DETAIL.
10. **WATER MAIN SIZE 6" SHALL BE:**
    ~ CL350 DUCTILE IRON (D.I.)
    ~ MARKED WITH NO. 10 COPPER LOCATOR WIRE
    ~ 36" MINIMUM COVER
    NOTE: SEE TYPICAL TRENCH DETAIL FOR ADDITIONAL INFORMATION
11. **WATER MAIN SIZES 3" SHALL BE:**
    ~ CL350 DUCTILE IRON (D.I)
    ~ MARKED WITH NO. 10 COPPER LOCATOR WIRE
    ~ 36" MINIMUM COVER
    NOTE: SEE TYPICAL TRENCH DETAIL FOR ADDITIONAL INFORMATION
12. **CONTRACTOR SHALL FURNISH ALL BENDS AND FITTINGS AS REQUIRED FOR WATER MAIN INSTALLATION.**
    ~ ALL BENDS AND FITTINGS SHALL BE DUCTILE IRON (D.I.) MECHANICAL JOINT (M.J.)
    ~ ALL VALVES, BENDS, FITTINGS, AND TAPPING SLEEVES AND VALVES SHALL HAVE CONCRETE THRUST BLOCKS, SEE DETAIL
    ~ ALL FITTINGS SHALL BE THE SAME SIZE AND PRESSURE RATING AS THE PIPE.
    ~ ALL VALVES SHALL BE DUCTILE IRON (D.I.)
13. DESIGN FLOW FOR FIRE PROTECTION IS 400 GPM PER BUILDING. DOMESTIC WATER FLOW IS ESTIMATED AT 65 GPM PER TENANT.
14. **4" & 8" SANITARY SEWER MAINS SHALL BE:**
    ~ CONTRACTOR TO FIELD VERIFY EXISTING INVERTS AND REPORT TO ENGINEER
    ~ SDR-26
    ~ MARKED WITH NO. 10 COPPER LOCATOR WIRE
    ~ 36" MINIMUM COVER
    NOTE: SEE TYPICAL TRENCH DETAIL FOR ADDITIONAL INFORMATION
15. **CONTRACTOR SHALL FURNISH ALL BENDS, FITTINGS, AND CLEANOUTS AS REQUIRED FOR SEWER MAIN & LATERAL INSTALLATION.**
    ~ PIPE LENGTHS AND SLOPES CAN BE FOUND ON PLANS
    NOTE: SEE TYPICAL CLEANOUT DETAILS FOR ADDITIONAL INFORMATION
16. ALL WATER SERVICE LINES (DOMESTIC, FIRE, IRRIGATION) ARE "PRIVATE" FROM THE METER VAULTS TO THE BUILDINGS.
17. ALL SANITARY SEWER SERVICE LINES ARE "PRIVATE" FROM THE MAIN/MANHOLE TO THE BUILDINGS.
18. ALL STEEL CASING SHALL BE ⅜" THICKNESS.



C-303 SITE UTILITY PLAN.dwg

ALABAMA LICENSED No. 50006 PROFESSIONAL ENGINEER 11/22/24 JARED KEITH LOWE

GADSDEN CITY HALL
100% CONSTRUCTION DOCUMENTS
CITY OF GADSDEN
200 Broad St, Gadsden, AL 35901
23-083

KEY PLAN :

ENGINEER OF RECORD :

CDG
224 BROAD ST., SUITE 201
GADSDEN, ALABAMA 35901
PH: (256) 543-9431

ISSUE DATE:
11-25-2024

REVISIONS :

NO.	DATE	DESCRIPTION

PROJECT NUMBER:
23-083

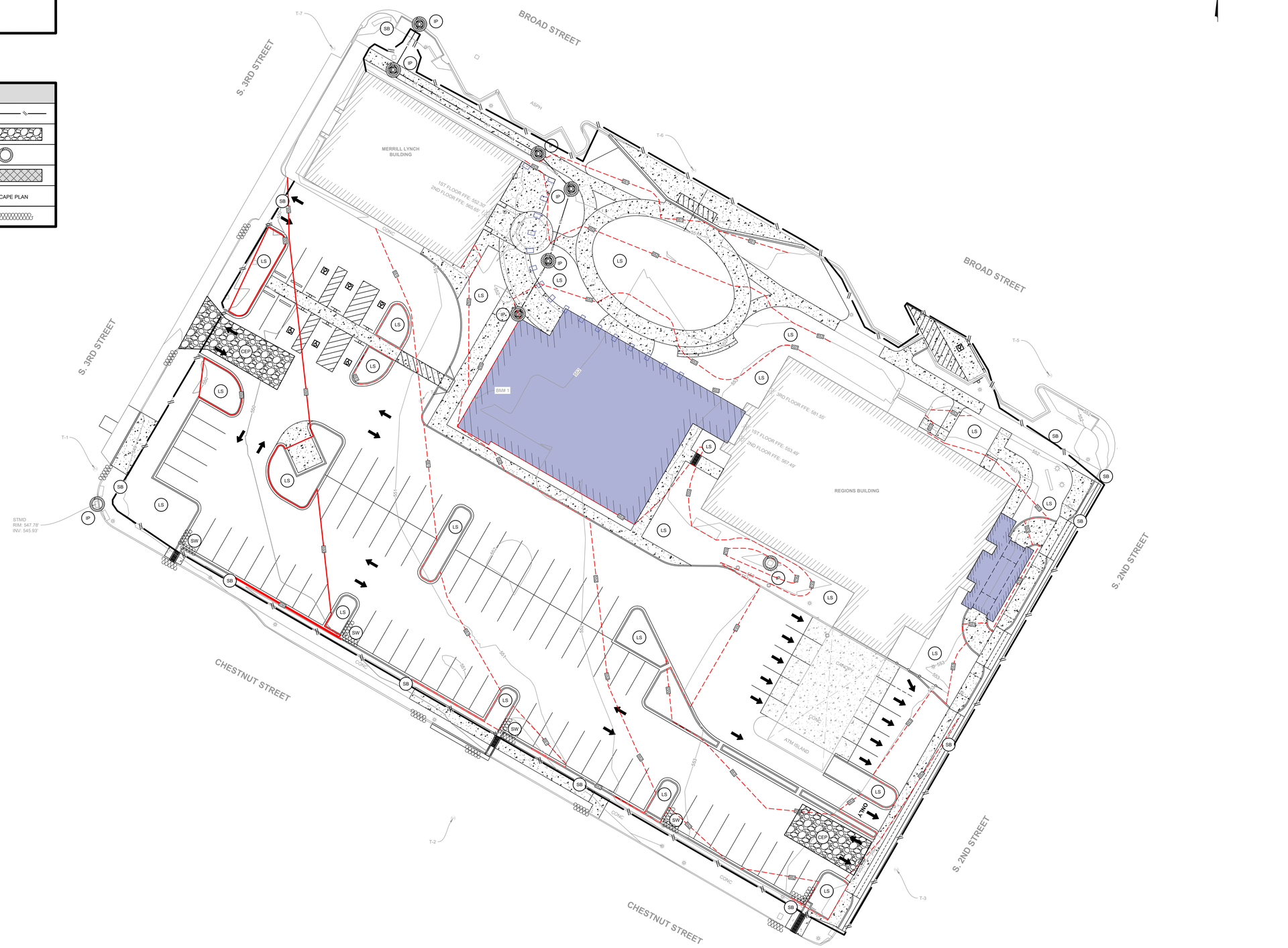
DRAWING TITLE:
SITE UTILITY PLAN

SHEET NUMBER:
C-303

EROSION AND SEDIMENT CONTROL NOTES

1. SITE EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS, CODES, AND REGULATIONS.
2. ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT NPDES GENERAL PERMIT FOR CONSTRUCTION ACTIVITIES TO BE PROVIDED BY OWNER PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MONITORING, INSPECTIONS, ETC. TO ENSURE THE OWNER THAT THE SITE IS AT ALL TIMES IN ACCORDANCE WITH ADEM RULES AND REGULATIONS.
3. FOR ADDITIONAL NOTES, SEE ***BEST MANAGEMENT PRACTICES***.

EROSION CONTROL LEGEND		
SILT FENCE OR STRAW WATTLE AS NEEDED	SB	
CONSTRUCTION EXIT PAD	CEP	
INLET PROTECTION	IP	
EROSION CONTROL BLANKET (WHERE NECESSARY)	ECB	
SOD / LANDSCAPING	LS	SEE LANDSCAPE PLAN
STRAW WATTLE	SW	



20 0 20
SCALE IN FEET

ALABAMA LICENSED No. 50006 PROFESSIONAL ENGINEER JARED KEITH LOWE 11/22/24

GADSDEN CITY HALL
100% CONSTRUCTION DOCUMENTS
CITY OF GADSDEN
200 Broad St, Gadsden, AL 35901
23-083

KEY PLAN:

ENGINEER OF RECORD:

CDG
224 BROAD ST., SUITE 201
GADSDEN, ALABAMA 35901
PH: (256) 543-9431

ISSUE DATE:
11-25-2024

REVISIONS:

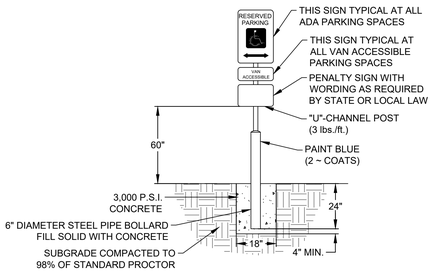
NO.	DATE	DESCRIPTION

PROJECT NUMBER:
23-083

DRAWING TITLE:
EROSION & SEDIMENT CONTROL PLAN

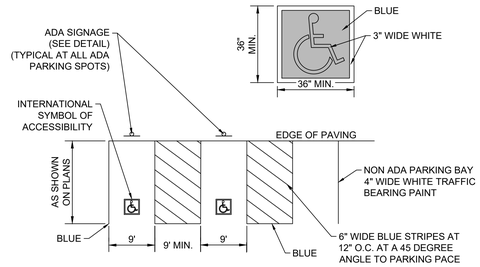
SHEET NUMBER:
C-304

C-304 EROSION & SEDIMENT CONTROL PLAN.dwg



ADA SIGNAGE WITH BOLLARD

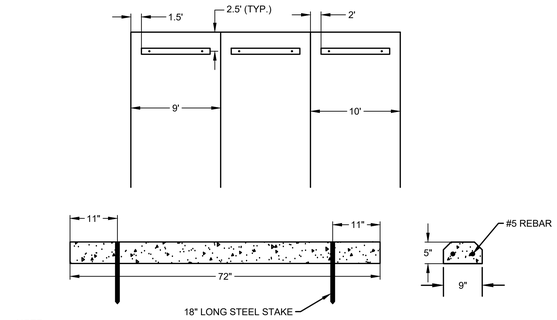
NOT TO SCALE



NOTES:
1. ALL PARKING LOT STRIPING TO BE TRAFFIC BEARING PAINT.
2. ALL STRIPING SHALL BE INSTALLED USING MANUFACTURERS SPECIFICATIONS.
3. PAINT COLOR TO BE ADA COMPLIANT BLUE
4. ALL STRIPING TO BE A MIN. OF 4" WIDE UNLESS OTHERWISE NOTED.
5. ALL OTHER PARKING LOT STRIPING TO BE WHITE UNLESS OTHERWISE NOTED

TYPICAL ACCESSIBLE PARKING STRIPING

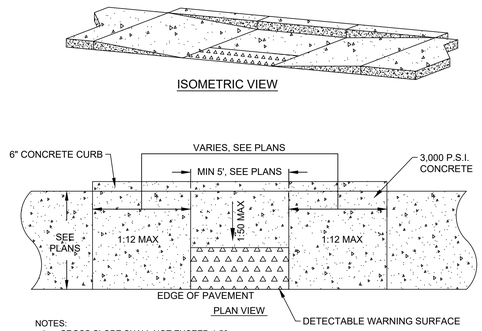
NOT TO SCALE



NOTE:
ALTERNATIVE DESIGN MUST BE APPROVED BY THE ENGINEER

CONCRETE PARKING BUMPER

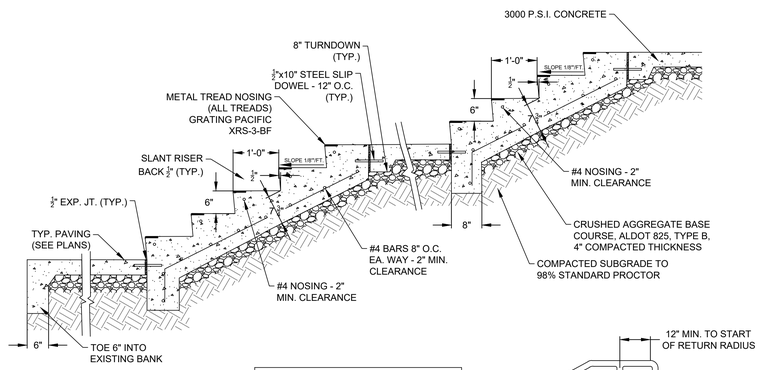
NOT TO SCALE

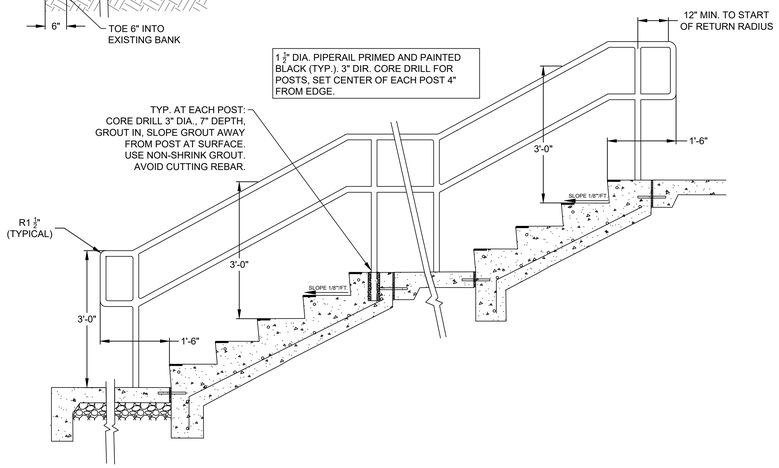


NOTES:
1. CROSS SLOPE SHALL NOT EXCEED 1:50.
2. PROVIDE FLUSH TRANSITIONS ON AND OFF RAMP.
3. SURFACE TEXTURE TO BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF CURB RAMP.
4. DETECABLE WARNING SURFACE SHALL EXTEND THE FULL WIDTH OF RAMP AND 2' IN THE DIRECTION OF PEDESTRIAN TRAVEL. ARMOR TILE HERCULITE; FEDERAL RED, OR APPROVED EQUAL.

ADA ACCESSIBLE PARALLEL RAMP

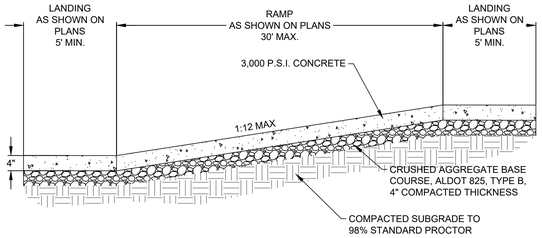
NOT TO SCALE

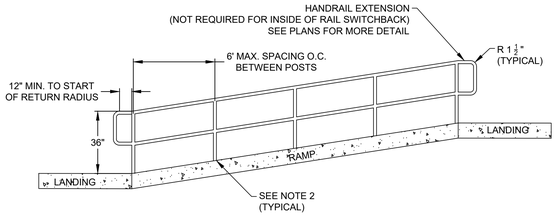




CONCRETE STEPS WITH METAL HANDRAILS

NOT TO SCALE



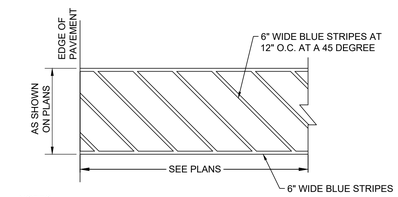


NOTES:

1. CUT 1/2" TRANSVERSE DUMMY JOINTS AT 6'-0" O.C.
2. EXPANSION JOINTS REQUIRED AT 30' O.C.
3. CRUSHED AGGREGATE BASE COURSE IS NOT REQUIRED IF SUBGRADE MATERIALS ARE AASHTO A-4 OR BETTER AND APPROVED BY PROFESSIONAL ENGINEER.
4. PROVIDE COMPLETE SHOP DRAWINGS OF RAILING AT ALL STEPS FOR REVIEW AND APPROVAL BY OWNER/ARCHITECT/ENGINEER.
5. TYPICAL AT EACH POST:
   CORE DRILL 3" DIAMETER, 7" DEPTH, GROUT IN, SLOPE GROUT AWAY FROM POST AT SURFACE. USE NON-SHRINK GROUT. AVOID CUTTING REBAR.
   1 1/2" DIAMETER PIPERAIL PRIMED AND PAINTED BLACK (TYPICAL). 3" DIR. CORE DRILL FOR POSTS, SET CENTER OF EACH POST 4" FROM EDGE.
6. ALL HANDRAILS SHOULD CONFORM TO CURRENT ADA STANDARDS.

ADA RAMP WITH HANDRAIL

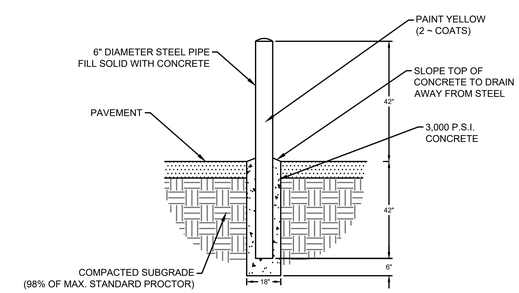
NOT TO SCALE



NOTES:
1. ALL PARKING LOT STRIPING TO BE TRAFFIC BEARING PAINT.
2. ALL STRIPING SHALL BE INSTALLED USING MANUFACTURERS SPECIFICATIONS.
3. PAINT COLOR TO BE ADA COMPLIANT BLUE
4. ALL STRIPING TO BE A MIN. OF 6" WIDE UNLESS OTHERWISE NOTED.

TYPICAL CROSSWALK STRIPING

NOT TO SCALE



NOTE:
ALTERNATIVE DESIGN MUST BE APPROVED BY THE ENGINEER

TYPICAL BOLLARD

NOT TO SCALE

ALABAMA LICENSED No. 50006 PROFESSIONAL ENGINEER JARED KEITH LONG 11/22/24

GADSDEN CITY HALL

100% CONSTRUCTION DOCUMENTS

CITY OF GADSDEN
200 Broad St, Gadsden, AL 35901
23-083

KEY PLAN:

ENGINEER OF RECORD:

CDG
224 BROAD ST., SUITE 201
GADSDEN, ALABAMA 35901
PH: (256) 543-9431

ISSUE DATE:
11-25-2024

REVISIONS:

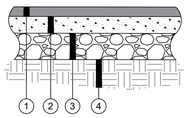
NO.	DATE	DESCRIPTION

PROJECT NUMBER:
23-083

DRAWING TITLE:
CONSTRUCTION DETAILS

SHEET NUMBER:
C-800

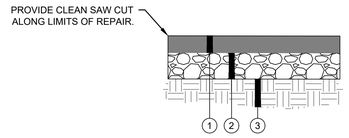
C-800 CONSTRUCTION DETAILS.dwg



1. BITUMINOUS CONCRETE WEARING SURFACE LAYER (APPROX. 165 LBS./S.Y.), TYPE 424A MAXIMUM AGGREGATE SIZE 1/2", ESAL RANGE A/B, AS PER ALDOT SSHC 2012 OR LATER
2. BITUMINOUS CONCRETE UPPER BINDER LAYER (APPROX. 275 LBS./S.Y.), TYPE 424B, MAXIMUM AGGREGATE SIZE 3/4", ESAL RANGE A/B, AS PER ALDOT SSHC 2012 OR LATER
3. CRUSHED AGGREGATE BASE COURSE, ALDOT 825, TYPE B, 6" COMPACTED THICKNESS, AS PER ALDOT SSHC 2012 OR LATER (COMPACTED 100% MODIFIED PROCTOR)
4. SUB-GRADE (COMPACTED 98% STANDARD PROCTOR)

MEDIUM-DUTY BITUMINOUS PAVEMENT SECTION

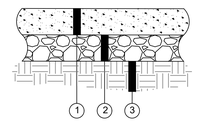
NOT TO SCALE



1. BITUMINOUS CONCRETE UPPER BINDER LAYER, PATCHING (APPROX. 440 LBS./S.Y.), TYPE 424B, MAXIMUM AGGREGATE SIZE 3/4", ESAL RANGE E
2. CRUSHED AGGREGATE BASE COURSE, ALDOT 825, TYPE B, MINIMUM 6" COMPACTED THICKNESS (COMPACTED 100% MODIFIED PROCTOR)
3. SUB-GRADE (COMPACTED 98% STANDARD PROCTOR)

BITUMINOUS PAVEMENT PATCHING SECTION

NOT TO SCALE



1. HEAVY-DUTY CONCRETE PAVEMENT (4,000 P.S.I.), 6" THICKNESS, 1 LB/CY FIBER REINFORCEMENT (ABC FIBER FORCE 350 (OR APPROVED EQUAL)
2. CRUSHED AGGREGATE BASE COURSE, ALDOT 825, TYPE B, 4" COMPACTED THICKNESS (COMPACTED 100% MODIFIED PROCTOR)
3. SUB-GRADE (COMPACTED TO 98% STANDARD PROCTOR)

NOTES:
1. SEE LANDSCAPE PLANS FOR SCORING LAYOUT PLAN.
2. 1.5" DEEP CONTROL JOINTS/SCORING SHALL NOT EXCEED 15'-0" O.C. MAX.
3. INSTALL EXPANSION JOINT MATERIAL WHERE NEW CONSTRUCTION MEETS EXIST[NG SIDEWALKS, CURBS, GUTTERS, OR FOUNDATIONS.

HEAVY-DUTY CONCRETE PAVEMENT SECTION
(FOR DRIVEWAYS AND NOTED SECTIONS OF SIDEWALK)

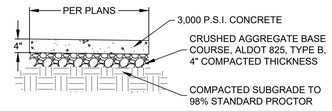
NOT TO SCALE

SIDEWALKS
5.0% MAX RUNNING SLOPE
2.0% MAX CROSS SLOPE

RAMPS
15'-0" MAX LENGTH
8.3% MAX RUNNING SLOPE
5.0% MIN RUNNING SLOPE
2. 0% MAX CROSS SLOPE

LANDINGS
2.0% MAX RUNNING SLOPE
2.0% MAX CROSS SLOPE

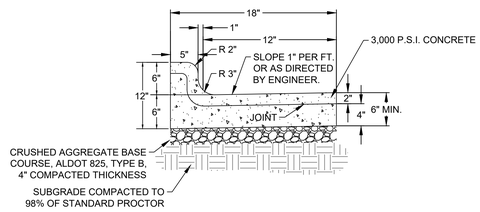
FLARES
10.0% MAX RUNNING SLOPE



NOTES:
1. USE HEAVY-DUTY CONCRETE PAVEMENT FOR NOTED SEGMENTS OF SIDEWALK AT DRIVEWAY CROSSINGS.
2. SEE LANDSCAPE PLANS FOR SCORING LAYOUT PLAN.
3. 1" DEEP CONTROL JOINTS/SCORING SHALL NOT EXCEED 10'-0" O.C. MAX.
4. INSTALL EXPANSION JOINT MATERIAL WHERE NEW CONSTRUCTION MEETS EXIST[NG SIDEWALKS, CURBS, GUTTERS, OR FOUNDATIONS.
5. SIDEWALK, RAMP, AND CURB RAMP SURFACES SHALL BE NON-SKID PREPARED BY BRUSHING.
6. CRUSHED AGGREGATE BASE COURSE IS NOT REQUIRED IF SUBGRADE MATERIALS ARE AASHTO A-4 OR BETTER AND APPROVED BY PROFESSIONAL ENGINEER.

TYPICAL CONCRETE SIDEWALK SECTION

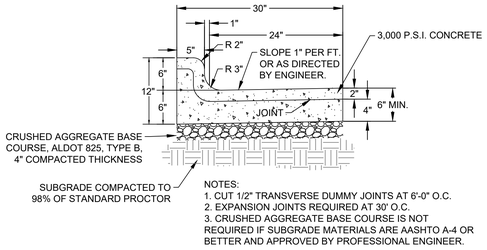
NOT TO SCALE



NOTES:
1. CUT 1/2" TRANSVERSE DUMMY JOINTS AT 6'-0" O.C.
2. EXPANSION JOINTS REQUIRED AT 30' O.C.
3. CRUSHED AGGREGATE BASE COURSE IS NOT REQUIRED IF SUBGRADE MATERIALS ARE AASHTO A-4 OR BETTER AND APPROVED BY PROFESSIONAL ENGINEER.

18" COMBINATION CURB AND GUTTER

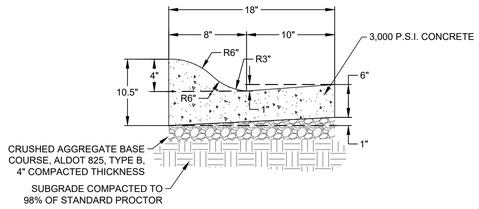
NOT TO SCALE



NOTES:
1. CUT 1/2" TRANSVERSE DUMMY JOINTS AT 6'-0" O.C.
2. EXPANSION JOINTS REQUIRED AT 30' O.C.
3. CRUSHED AGGREGATE BASE COURSE IS NOT REQUIRED IF SUBGRADE MATERIALS ARE AASHTO A-4 OR BETTER AND APPROVED BY PROFESSIONAL ENGINEER.

30" COMBINATION CURB AND GUTTER

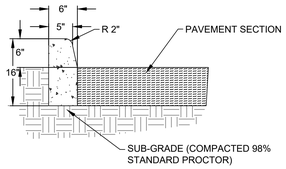
NOT TO SCALE



NOTES:
1. CUT 1/2" TRANSVERSE DUMMY JOINTS AT 6'-0" O.C.
2. EXPANSION JOINTS REQUIRED AT 30' O.C.
3. CRUSHED AGGREGATE BASE COURSE IS NOT REQUIRED IF SUBGRADE MATERIALS ARE AASHTO A-4 OR BETTER AND APPROVED BY PROFESSIONAL ENGINEER.

18" MOUNTABLE CURB AND GUTTER

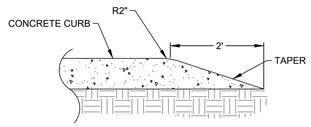
NOT TO SCALE



NOTES:
1. CUT 1/2" TRANSVERSE DUMMY JOINTS AT 6'-0" O.C.
2. EXPANSION JOINTS REQUIRED AT 30; O.C.

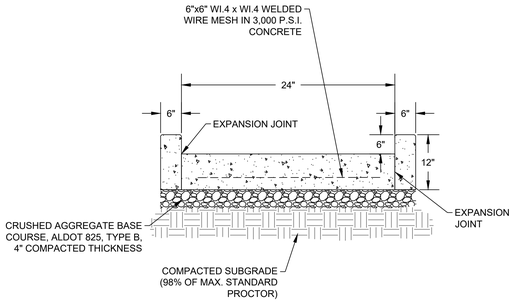
CONCRETE CURB - TYPE "A"

NOT TO SCALE



CURB TAPER PROFILE

NOT TO SCALE

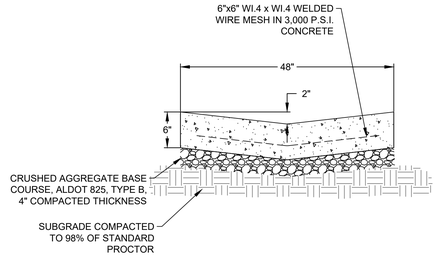


NOTES:

1. CUT 1/2" TRANSVERSE DUMMY JOINTS AT 6'-0" O.C.
2. EXPANSION JOINTS REQUIRED EVERY 30' O.C. AND AT COLD JOINTS. MATERIAL SHALL BE NOMAFLEX JOINT FILLER (OR APPROVED EQUAL).

CONCRETE FLUME

NOT TO SCALE



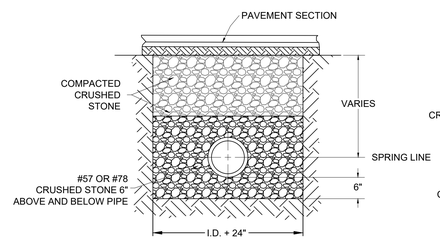
NOTES:
1. CUT 1/2" TRANSVERSE DUMMY JOINTS AT 6'-0" O.C.
2. EXPANSION JOINTS REQUIRED AT 30' O.C.
3. CRUSHED AGGREGATE BASE COURSE IS NOT REQUIRED IF SUBGRADE MATERIALS ARE AASHTO A-4 OR BETTER AND APPROVED BY PROFESSIONAL ENGINEER.

48" CONCRETE VALLEY GUTTER

NOT TO SCALE

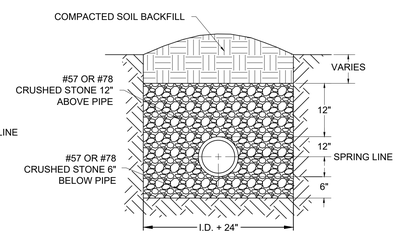
TRENCH DETAIL FOR STORM PIPING

NOTES:
SEE SHEETS C-802 WATER AND SEWER TRENCH DETAILS.



PAVED TRENCH

FOR RCP AND HDPE PIPE AT ALL DEPTHS UNDER PAVEMENT
NOT TO SCALE



UNPAVED TRENCH

FOR RCP AND HDPE PIPE AT ALL DEPTHS NOT UNDER PAVEMENT
NOT TO SCALE

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 50096 11/22/24 JARED KEITH LOWE

GADSDEN CITY HALL
100% CONSTRUCTION DOCUMENTS

CITY OF GADSDEN
200 Broad St, Gadsden, AL 35901
23-083

KEY PLAN :

ENGINEER OF RECORD :

CDG
224 BROAD ST., SUITE 201
GADSDEN, ALABAMA 35901
PH: (256) 543-9431

ISSUE DATE:
11-25-2024

REVISIONS :

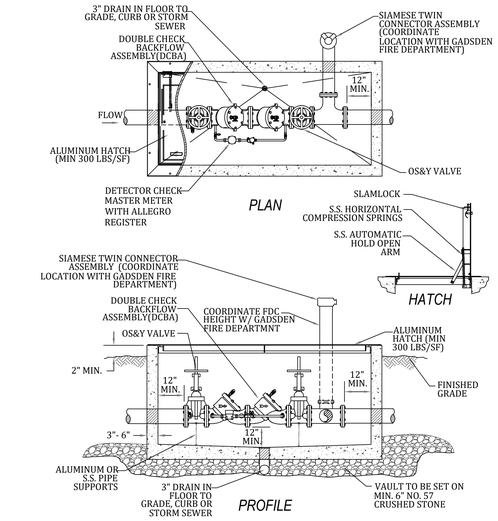
NO.	DATE	DESCRIPTION

PROJECT NUMBER:
23-083

DRAWING TITLE:
CONSTRUCTION DETAILS

SHEET NUMBER:
C-801

C-800-CONSTRUCTION DETAILS.dwg

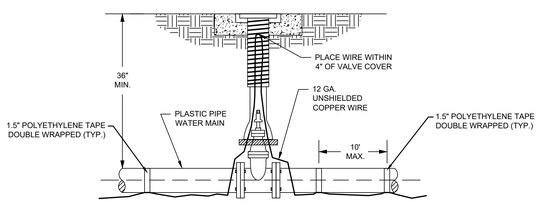


NOTES:

1. DOUBLE CHECK BACKFLOW ASSEMBLY SHALL BE MANUFACTURED BY AMES, WATTS, OR AN APPROVED EQUAL.
2. VAULTS SHALL BE INSPECTED BY GADSDEN WATER WORKS PERSONNEL IN ADDITION TO CITY OF GADSDEN PROJECT INSPECTIONS.
3. ALL CONCRETE SHALL BE CLASS "A" (4,000 PSI) AND ALL WORK SHALL BE COORDINATED AND APPROVED BY GADSDEN WATER WORKS AND SEWER BOARD.

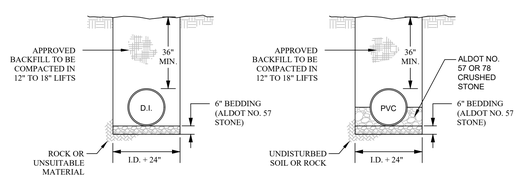
TYPICAL 6" FIRE PROTECTION VAULT DCBA

NOT TO SCALE

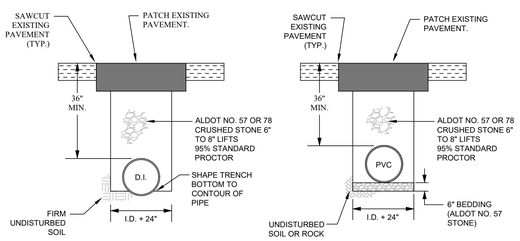


TRACER TAPE FOR PLASTIC PIPE

NOT TO SCALE



UN-PAVED TRENCH



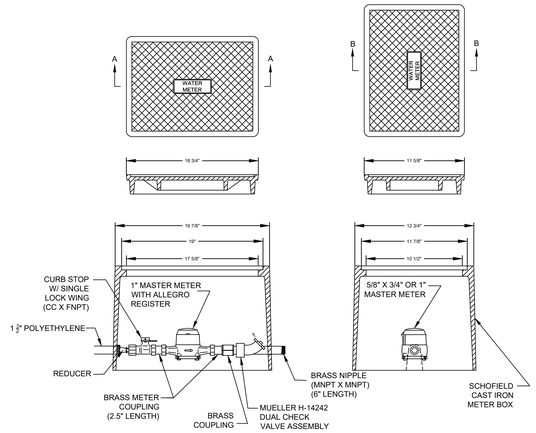
PAVED TRENCH

NOTES:

1. BEDDING MATERIAL SHALL BE ALDOT NO. 57 CRUSHED STONE PER ALDOT STANDARD SPECIFICATIONS.
2. TRENCH WIDTH VARIES BASED ON WALL STABILITY. STABLE WALLS WIDTH AS NEEDED TO JOIN PIPE AND COMPACT HAUNCHING AND INITIAL BACKFILL. THE TRENCH WIDTH AT UNSTABLE WALLS SHOULD BE A MINIMUM FIVE TIMES PIPE DIAMETER.
3. FLOWABLE FILL CAN BE USED AS BACKFILL WITH PRIOR APPROVAL AND MUST BE ALLOWED 24 HOURS TO CURE PRIOR TO BACKFILLING.
4. APPROVED BACKFILL MATERIAL INCLUDES ALDOT NO. 57 CRUSHED STONE, FLOWABLE FILL AND APPROVED SOIL. ALTERNATIVE MATERIAL MUST BE PREAPPROVED.
5. FLOWABLE FILL SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 50 PSI TO 200 PSI.

TRENCH DETAIL FOR WATER MAINS

NOT TO SCALE



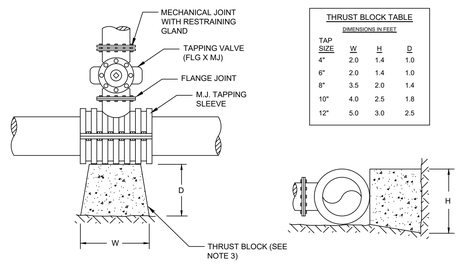
SECTION A-A SECTION B-B

NOTES:

1. STANDARD WATER METERS SHALL BE 1" POSITIVE DISPLACEMENT MASTER METER.
2. THE OWNER SHALL BE RESPONSIBLE FOR INSTALLING A DUAL CHECK BACKFLOW PREVENTION DEVICE IN ACCORDANCE WITH THE CITY OF GADSDEN CODE OF ORDINANCES.

TYPICAL 1" METER SETTING

NOT TO SCALE



THRUST BLOCK TABLE

DIMENSIONS IN FEET

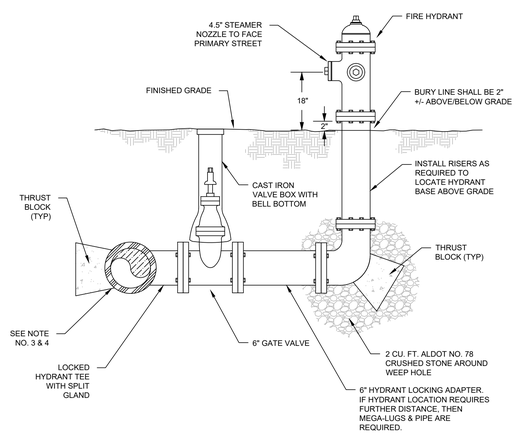
TAP SIZE	W	H	D
4"	2.0	1.4	1.0
6"	2.0	1.4	1.0
8"	3.5	2.0	1.4
10"	4.0	2.5	1.8
12"	5.0	3.0	2.5

NOTES:

1. TAPPING SLEEVES SHALL BE INSTALLED A MINIMUM DISTANCE OF 4-FEET FROM THE NEAREST JOINT.

TAPPING SLEEVE

NOT TO SCALE

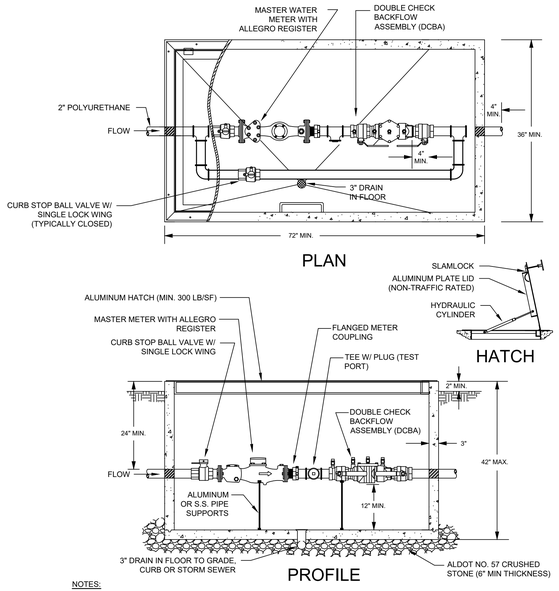


NOTES:

1. ALL HYDRANTS SHALL HAVE NATIONAL STANDARD THREADS, 4 1/2-INCH STEAMER & 2 1/2-INCH HOSE NOZZLE. BRONZE TO BRONZE SEATED, EPOXY COATED SHOES AND SHALL BE M&H VALVE MODEL 129 OR MUELLER CENTURION MODEL A-423 OR APPROVED EQUAL.
2. ALL FIRE HYDRANTS SHALL BE LEVELED AND PLUMBED DURING INSTALLATION.
3. ALL MECHANICAL JOINT FITTINGS THAT REQUIRE THRUST BLOCKS SHALL BE WRAPPED IN PLASTIC. CONCRETE SHALL NOT BE POURED OVER JOINTS.
4. THE PREFERRED METHOD OF THRUST RESTRAINT SHALL BE THROUGH THE USE OF EXTERNALLY RESTRAINED JOINT DEVICES SUCH AS MEGA-LUGS IN LIEU OF CONCRETE BLOCKING. CONCRETE BLOCKING SHALL ONLY BE PERMITTED WHERE APPROVED BY GWWSB AND SHALL NOT BE USED IN CONJUNCTION WITH MEGA-LUG RESTRAINTS. THE APPROPRIATE LENGTH OF RESTRAINT SHALL BE CALCULATED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
5. USE MEGA-LUGS BETWEEN HYDRANT AND GATE VALVE.
6. HYDRANT LOCKING TEE TO BE USED IN LIEU OF STANDARD M.J. TEE ON ALL FIRE HYDRANT CONNECTIONS.

TYPICAL FIRE HYDRANT ASSEMBLY

NOT TO SCALE

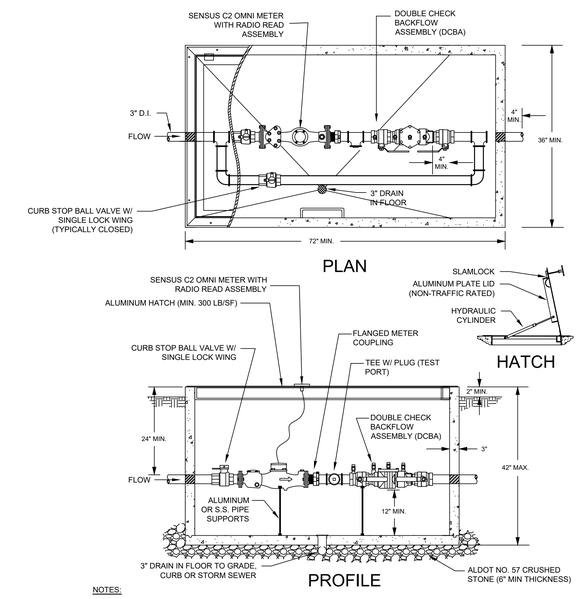


NOTES:

1. WATER METER SHALL BE MASTER METER
2. DOUBLE CHECK BACKFLOW ASSEMBLY SHALL BE WATTS MODEL NO. LF007M1QT OR EQUAL.
3. CURB STOP BALL VALVES WITH LOCK WING SHALL BE A.Y. MCDONALD MODEL NO. 76101 OR EQUAL.
4. FLANGED METER COUPLING SHALL BE FORD METER BOX LOK-PAK COUPLING OR EQUAL.
5. ALL CONCRETE SHALL BE CLASS "A" (4,000 PSI) AND ALL WORK SHALL BE DONE IN COORDINATION WITH GADSDEN WATER WORKS AND SEWER BOARD.

TYPICAL 2.0" METER VAULT W/ DCBA

NOT TO SCALE



NOTES:

1. WATER METER SHALL BE SENSUS C2 OMNI METER
2. DOUBLE CHECK BACKFLOW ASSEMBLY SHALL BE WATTS MODEL NO. LF007M1QT OR EQUAL.
3. CURB STOP BALL VALVES WITH LOCK WING SHALL BE A.Y. MCDONALD MODEL NO. 76101 OR EQUAL.
4. FLANGED METER COUPLING SHALL BE FORD METER BOX LOK-PAK COUPLING OR EQUAL.
5. ALL CONCRETE SHALL BE CLASS "A" (4,000 PSI) AND ALL WORK SHALL BE DONE IN COORDINATION WITH GADSDEN WATER WORKS AND SEWER BOARD.

TYPICAL 3.0" METER VAULT W/ DCBA

NOT TO SCALE

ALABAMA LICENSED No. 50006 PROFESSIONAL ENGINEER 11/22/24 JARED KEITH LONG

GADSDEN CITY HALL

100% CONSTRUCTION DOCUMENTS

CITY OF GADSDEN
200 Broad St, Gadsden, AL 35901
23-083

KEY PLAN :

ENGINEER OF RECORD :

CDG
224 BROAD ST., SUITE 201
GADSDEN, ALABAMA 35901
PH: (256) 543-9431

ISSUE DATE:
11-25-2024

REVISIONS :

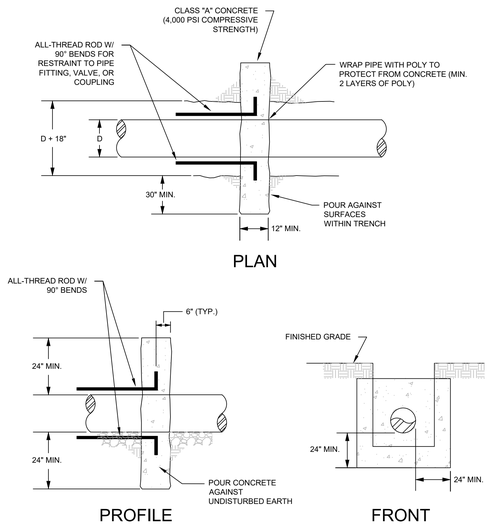
NO.	DATE	DESCRIPTION

PROJECT NUMBER:
23-083

DRAWING TITLE:
CONSTRUCTION DETAILS

SHEET NUMBER:
C-802

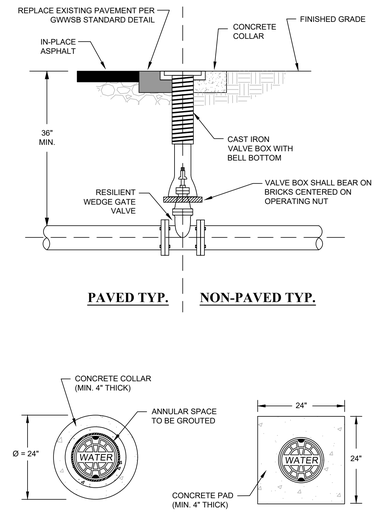
C:\800 CONSTRUCTION DETAILS.dwg



NOTES:

1. DEADMAN TO BE CENTERED ON FULL JOINT OF PIPE.
2. ALL CONCRETE SHALL BE SHALL CLASS "A" (4000 PSI) IN ACCORDANCE WITH THE GWWSB STANDARD SPECIFICATIONS.
3. NO CALCIUM CHLORIDE CURING ACCELERATOR ALLOWED.
4. APPLICABLE FOR UP TO AND INCLUDING 12-INCH DIAMETER PIPE MAY BE USED FOR PIPES ABOVE 12-INCH DIAMETER ON A CASE BY CASE BASIS.
5. DEADMAN SHALL BE USED ON EXISTING DUCTILE IRON OR CAST IRON PIPE IN GOOD CONDITION.

TYPICAL DEADMAN THRUST RESTRAINT
NOT TO SCALE

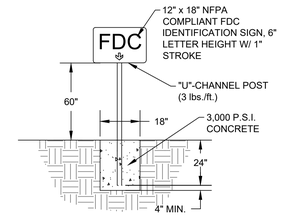


CONCRETE VALVE COLLAR/PAD DETAIL

NOTES:

1. VALVE BOXES SHALL BE MUELLER NO. H-10364, MUELLER NO. H-10380, M&H NO. E-2702, M&H NO. E-3102 OR APPROVED EQUAL.
2. VALVE BOXES IN NON-PAVED AREAS SHALL REQUIRE A CONCRETE VALVE PAD (APPROX. 24"X24"X4") OR A PRECAST DONUT PAD CONCRETE COLLAR.

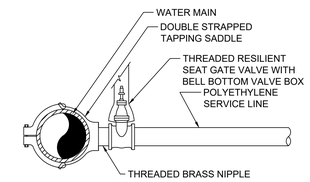
TYPICAL VALVE BOX INSTALLATION
NOT TO SCALE



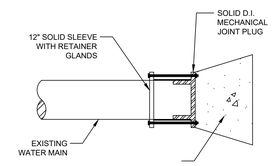
NOTES:

1. COORDINATE INSTALLATION W/ MCWD & LOCAL FIRE DEPARTMENT. INSTALL DIRECTLY BEHIND FDC

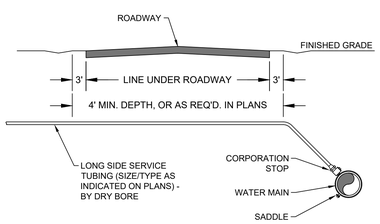
FDC SIGNAGE
NOT TO SCALE



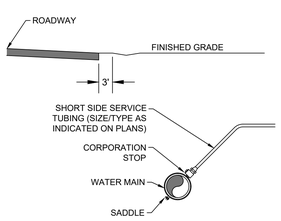
TYPICAL 1.5"& 2" SERVICE CONNECTION
NOT TO SCALE



PLUG DETAIL FOR PRESSURIZED PIPE
NOT TO SCALE

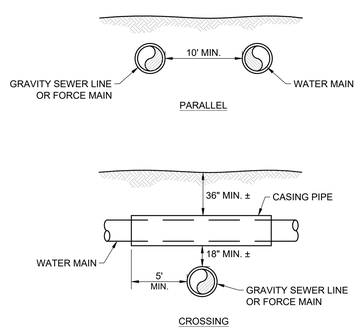


LONG SIDE SERVICE

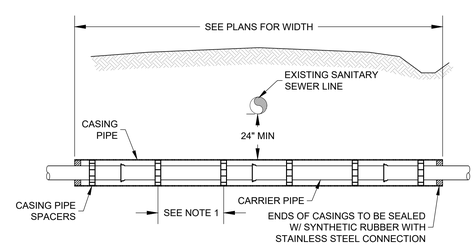


SHORT SIDE SERVICE

TYPICAL SERVICE CONNECTION
NOT TO SCALE



DETAILS OF UTILITY SEPARATION
NOT TO SCALE



NOTES

1. CASING PIPE SPACERS TO BE LOCATED AS RECOMMENDED BY MANUFACTURER.
2. CARRIER PIPE SHALL BE TYPE III RESTRAINT JOINT DUCTILE IRON PIPE.
3. SEE PLAN SHEETS FOR CARRIER PIPE SIZE.
4. SEE PLANS FOR CASING PIPE SIZE AND MATERIAL THICKNESS.
5. WHERE SUFFICIENT COVER CAN BE MAINTAINED OVER THE WATER MAIN CASING, AND AT LEAST 24" INCHES OF VERTICAL SEPARATION CAN BE ACHIEVED, MAIN SHOULD BE LAID ABOVE SANITARY SEWER LINE.
6. DURING INSTALLATION, CARRIER PIPE SHALL BE PULLED THROUGH CASING PIPE AND NOT PUSHED.

WATER MAIN CROSSING CASED CARRIER PIPE
NOT TO SCALE

ALABAMA LICENSED No. 50096 PROFESSIONAL ENGINEER JARED KEITH LOWE 11/22/24

GADSDEN CITY HALL
100% CONSTRUCTION DOCUMENTS

CITY OF GADSDEN
200 Broad St, Gadsden, AL 35901
23-083

KEY PLAN :

ENGINEER OF RECORD :

CDG
224 BROAD ST., SUITE 201
GADSDEN, ALABAMA 35901
PH: (256) 543-9431

ISSUE DATE:
11-25-2024

REVISIONS :

NO.	DATE	DESCRIPTION

PROJECT NUMBER:
23-083

DRAWING TITLE:
CONSTRUCTION DETAILS

SHEET NUMBER:
C-803

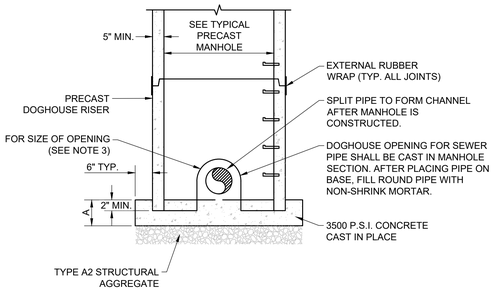
C-800 (CONSTRUCTION DETAILS.dwg)

NOTES

1. REFERENCE TYPICAL PRECAST MANHOLE FOR MANHOLE DETAILS
2. HOLES IN PRECAST UNITS ARE TO BE 4" MIN. TO 8" MAX. LARGER THAN THE OUTSIDE DIAMETER OF THE PIPE.
3. BASE SECTION TO PROVIDE 6" MIN. CLEARANCE BETWEEN TOP OF PIPE OPENING AND BOTTOM OF BELL AND SPIGOT JOINT.

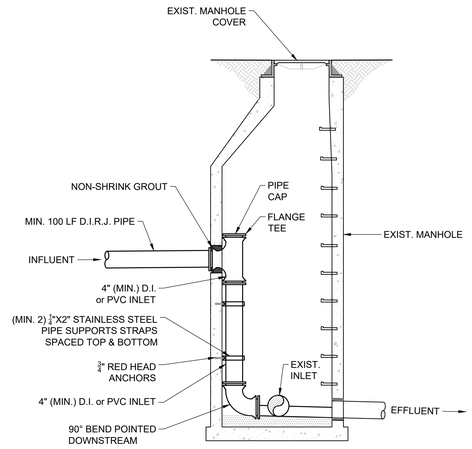
CHART "A"

MINIMUM DIMENSIONS			
MH	4'-0"	5'-0"	6'-0"
A	6"	8"	10"



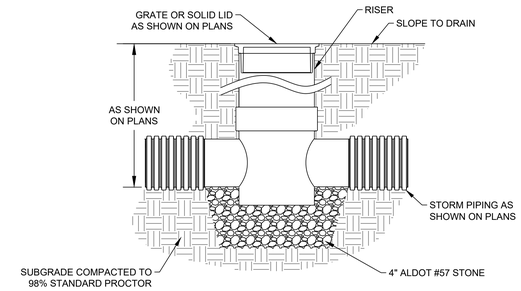
STANDARD DOGHOUSE MANHOLE

NOT TO SCALE



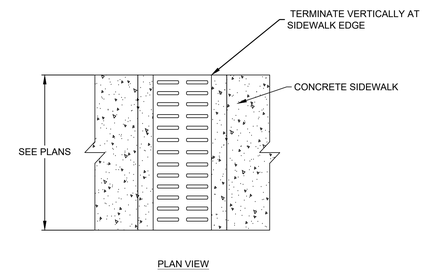
STANDARD INTERNAL DROP MANHOLE

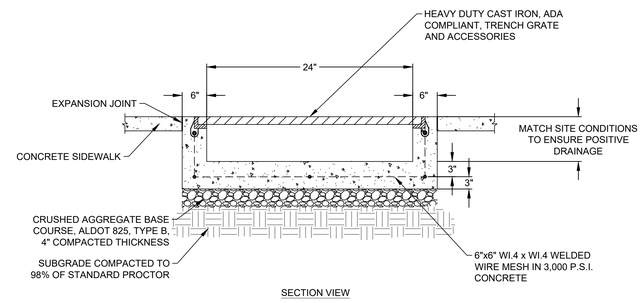
NOT TO SCALE



HDPE DRAIN BASIN

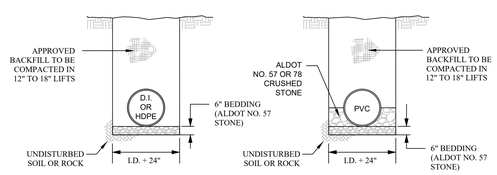
NOT TO SCALE



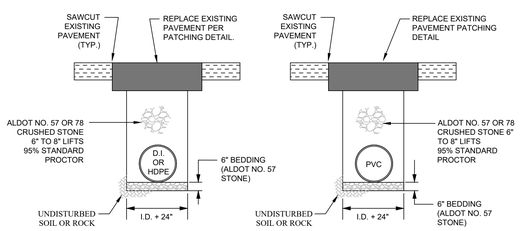


CONCRETE FLUME UNDER SIDEWALK

NOT TO SCALE



UN-PAVED TRENCH



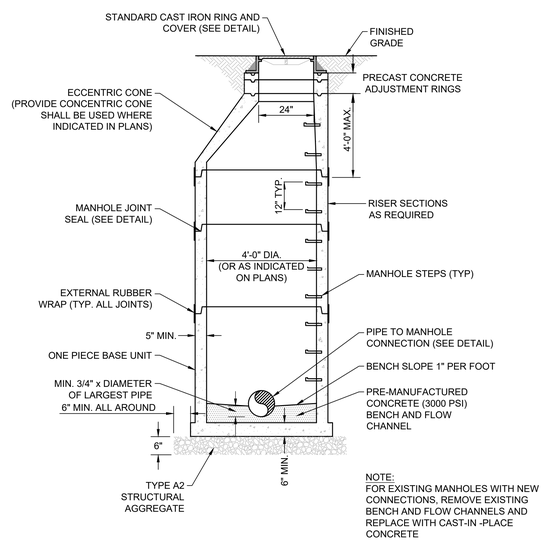
PAVED TRENCH

NOTES:

1. BEDDING MATERIAL SHALL BE ALDOT NO. 57 CRUSHED STONE PER ALDOT STANDARD SPECIFICATIONS.
2. TRENCH WIDTH VARIES BASED ON WALL STABILITY. STABLE WALLS WIDTH AS NEEDED TO JOIN PIPE AND COMPACT HAUNCHING AND INITIAL BACKFILL. THE TRENCH WIDTH AT UNSTABLE WALLS SHOULD BE A MINIMUM FIVE TIMES PIPE DIAMETER.
3. FLOWABLE FILL CAN BE USED AS BACKFILL WITH PRIOR APPROVAL AND MUST BE ALLOWED 24 HOURS TO CURE PRIOR TO BACKFILLING.
4. APPROVED BACKFILL MATERIAL INCLUDES ALDOT NO. 57 CRUSHED STONE, FLOWABLE FILL AND APPROVED SOIL. ALTERNATIVE MATERIAL MUST BE PREAPPROVED.
5. FLOWABLE FILL SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 50 PSI TO 200 PSI.
6. EXISTING ASPHALT SHALL BE REPLACED IN ACCORDANCE WITH GWWSB STANDARD DETAILS.

TRENCH DETAIL FOR GRAVITY SEWER MAINS

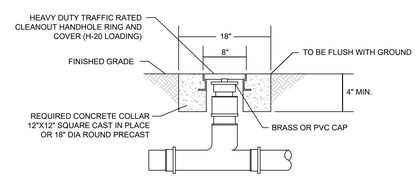
NOT TO SCALE



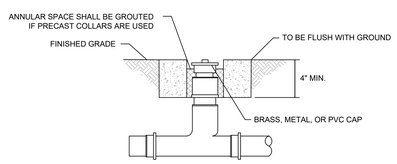
NOTE:
FOR EXISTING MANHOLES WITH NEW CONNECTIONS, REMOVE EXISTING BENCH AND FLOW CHANNELS AND REPLACE WITH CAST-IN -PLACE CONCRETE

STANDARD PRECAST CONCRETE MANHOLE

NOT TO SCALE



CLEANOUT IN PAVED AREAS



CLEANOUT IN NON-PAVED AREAS

TYPICAL CLEANOUT

NOT TO SCALE

ALABAMA LICENSED No. 50096 PROFESSIONAL ENGINEER 11/22/24 JARED KEITH LOWE

GADSDEN CITY HALL
100% CONSTRUCTION DOCUMENTS
CITY OF GADSDEN
200 Broad St, Gadsden, AL 35901
23-083

KEY PLAN:

ENGINEER OF RECORD:

CDG
224 BROAD ST., SUITE 201
GADSDEN, ALABAMA 35901
PH: (256) 543-9431

ISSUE DATE:
11-25-2024

REVISIONS:

NO.	DATE	DESCRIPTION

PROJECT NUMBER:
23-083

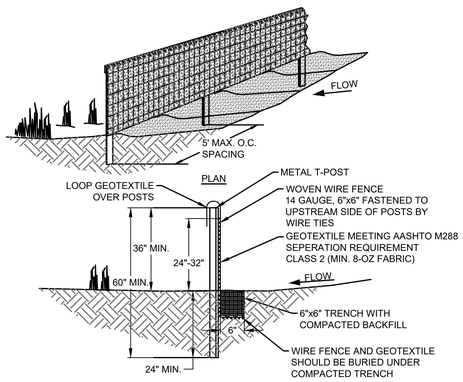
DRAWING TITLE:
CONSTRUCTION DETAILS

SHEET NUMBER:
C-804

C-800 CONSTRUCTION DETAILS.dwg

NOTES:

1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" MAX. RECOMMENDED STORAGE HEIGHT.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE WIRE FABRIC JOINTS SHALL OVERLAP A MIN. OF 2' AT POST AND FASTENED WITH MIN. 3 FASTENERS AND FILTER FABRIC SHALL OVERLAP A MIN. 2' AND FASTENED WITH MIN. 2 FASTENERS.



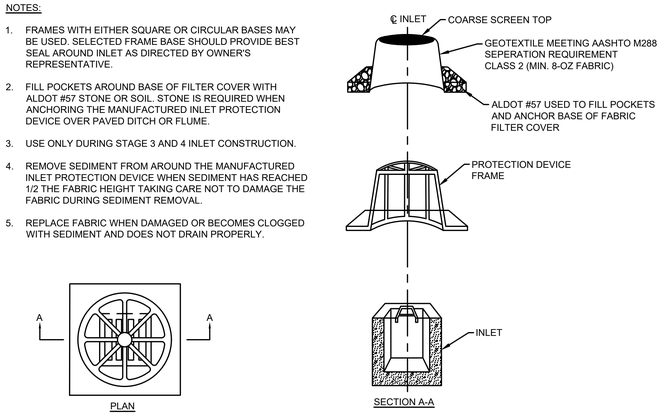
TRENCH DETAIL

TYPE "A" SILT FENCE DETAIL

NOT TO SCALE

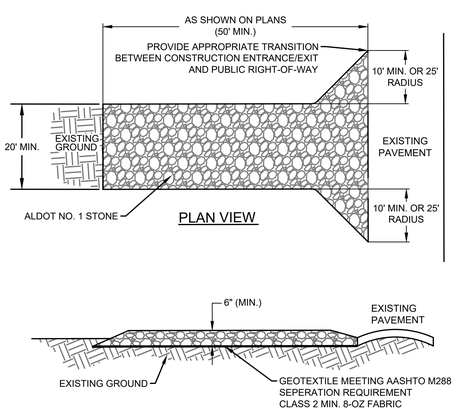
NOTES:

1. FRAMES WITH EITHER SQUARE OR CIRCULAR BASES MAY BE USED. SELECTED FRAME BASE SHOULD PROVIDE BEST SEAL AROUND INLET AS DIRECTED BY OWNER'S REPRESENTATIVE.
2. FILL POCKETS AROUND BASE OF FILTER COVER WITH ALDOT #57 STONE OR SOIL. STONE IS REQUIRED WHEN ANCHORING THE MANUFACTURED INLET PROTECTION DEVICE OVER PAVED DITCH OR FLUME.
3. USE ONLY DURING STAGE 3 AND 4 INLET CONSTRUCTION.
4. REMOVE SEDIMENT FROM AROUND THE MANUFACTURED INLET PROTECTION DEVICE WHEN SEDIMENT HAS REACHED 1/2 THE FABRIC HEIGHT TAKING CARE NOT TO DAMAGE THE FABRIC DURING SEDIMENT REMOVAL.
5. REPLACE FABRIC WHEN DAMAGED OR BECOMES CLOGGED WITH SEDIMENT AND DOES NOT DRAIN PROPERLY.



MANUFACTURED DEVICE INLET PROTECTION

NOT TO SCALE



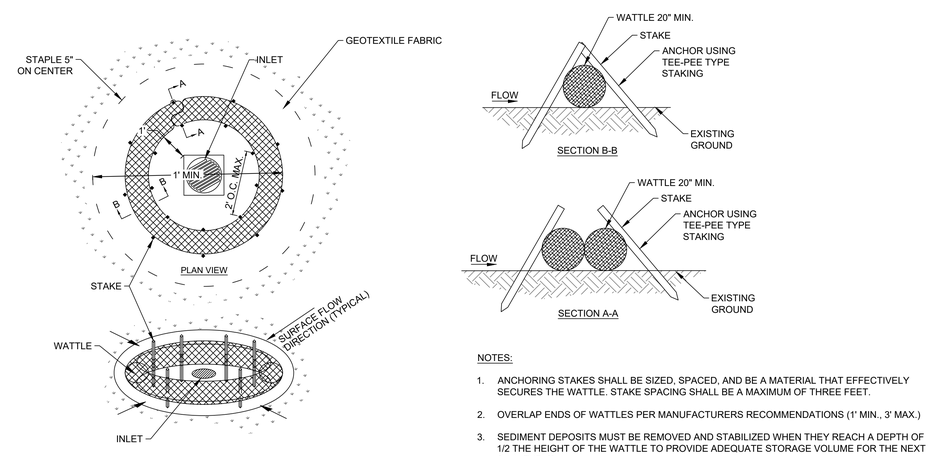
SIDE ELEVATION

NOTES:

1. STONE - ALDOT NO. 1 (2 - 3 INCHES)
2. LENGTH - 50' MIN
3. THICKNESS - 6" MIN.
4. WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS.
5. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

STONE CONSTRUCTION EXIT PAD

NOT TO SCALE



NOTES:

1. ANCHORING STAKES SHALL BE SIZED, SPACED, AND BE A MATERIAL THAT EFFECTIVELY SECURES THE WATTLE. STAKE SPACING SHALL BE A MAXIMUM OF THREE FEET.
2. OVERLAP ENDS OF WATTLES PER MANUFACTURERS RECOMMENDATIONS (1' MIN., 3' MAX.)
3. SEDIMENT DEPOSITS MUST BE REMOVED AND STABILIZED WHEN THEY REACH A DEPTH OF 1/2 THE HEIGHT OF THE WATTLE TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN EVENT.
4. WORN, DAMAGED, OR ROTTEN WATTLES MUST BE REPLACED.

WATTLE INLET PROTECTION

NOT TO SCALE

ALABAMA LICENSED No. 50096 PROFESSIONAL ENGINEER JARED KEITH LOWE 11/22/24

GADSDEN CITY HALL
100% CONSTRUCTION DOCUMENTS

CITY OF GADSDEN
200 Broad St, Gadsden, AL 35901
23-083

KEY PLAN:

ENGINEER OF RECORD:

CDG
224 BROAD ST., SUITE 201
GADSDEN, ALABAMA 35901
PH: (256) 543-9431

ISSUE DATE:
11-25-2024

REVISIONS:

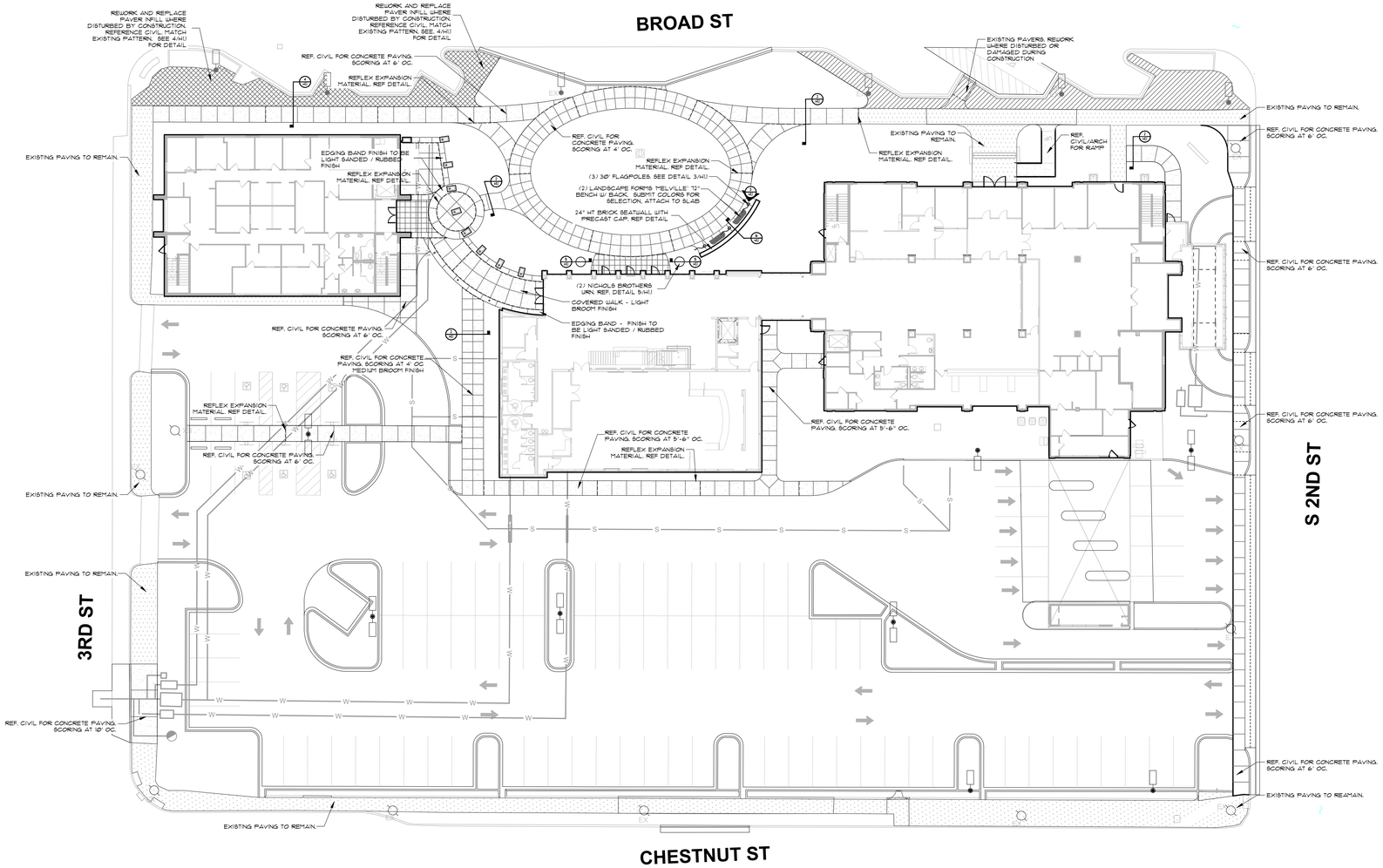
NO.	DATE	DESCRIPTION

PROJECT NUMBER:
23-083

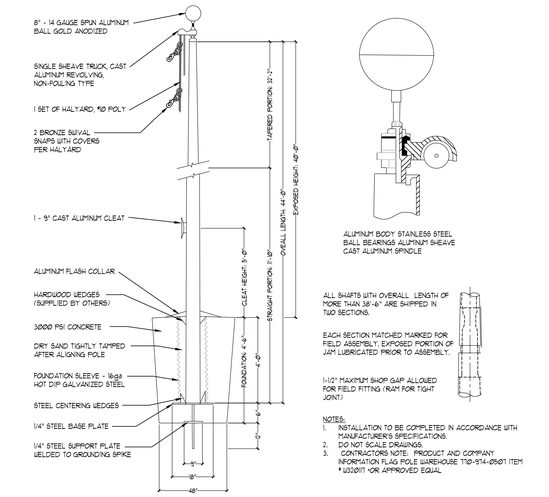
DRAWING TITLE:
CONSTRUCTION DETAILS

SHEET NUMBER:
C-805

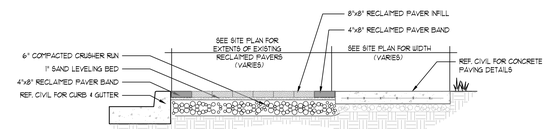
C-800 CONSTRUCTION DETAILS.dwg



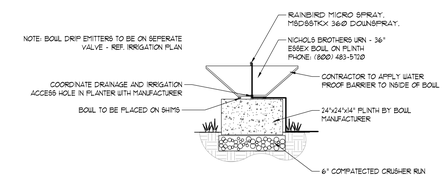
1 HARDSCAPE MATERIALS PLAN
1" =20'-0"



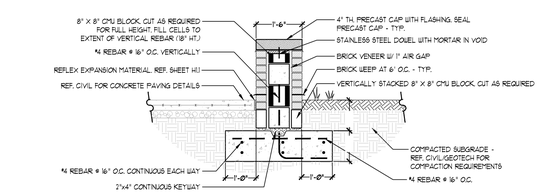
3 H1.1 30'-0" FLAGPOLE
SECTION
SCALE: 1"=20'-0"



4 H1.1 RECLAIMED PAVER INSTALL
SECTION
SCALE: 1/2"=1'-0"

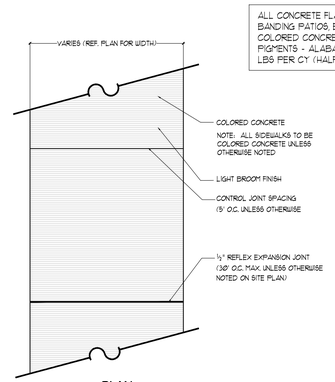


5 H1.1 LANDSCAPE PLANTING BOWL
SECTION
SCALE: 1"=20'-0"

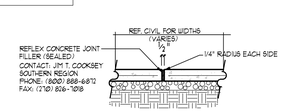


6 H1.1 SEAT WALL AT FLAG POLES
SECTION
SCALE: 1/2"=1'-0"

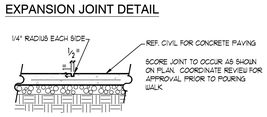
ALL CONCRETE FLATWORK, WALKS, BANDING PATIOS, ETC TO BE COLORED CONCRETE - ALABAMA PIGMENTS - ALABAMA OCHRE 3.75 LBS PER CY (HALF RATE)



PLAN



EXPANSION JOINT DETAIL



CONTROL JOINT DETAIL

2 H1.1 SIDEWALK AND SCORING DETAILS
SECTION
SCALE: 1"=20'-0"

JOHNSON & CO.
LANDSCAPE ARCHITECTS
LAND PLANNERS

2115 1ST AVENUE NORTH / BIRMINGHAM, AL 35203
PH: (205) 324-4447 • FAX: (205) 324-8068
WEB: JOHNSON-CO.NET

0 10 20 40
SCALE IN FEET

NORTH

STATE OF ALABAMA
WILLIAM REED JOHNSON, JR.
NUMBER 466
REGISTERED LANDSCAPE ARCHITECT

GADSDEN CITY HALL
100% CONSTRUCTION DOCUMENTS

CITY OF GADSDEN
200 Broad St, Gadsden, AL 35901
23-083

KEY PLAN :

ARCHITECT OF RECORD :
WILLIAMS BLACKSTOCK ARCHITECTS
2204 FIRST AVENUE SOUTH, SUITE 200
BIRMINGHAM, ALABAMA 35233

ISSUE DATE:
11-25-2024

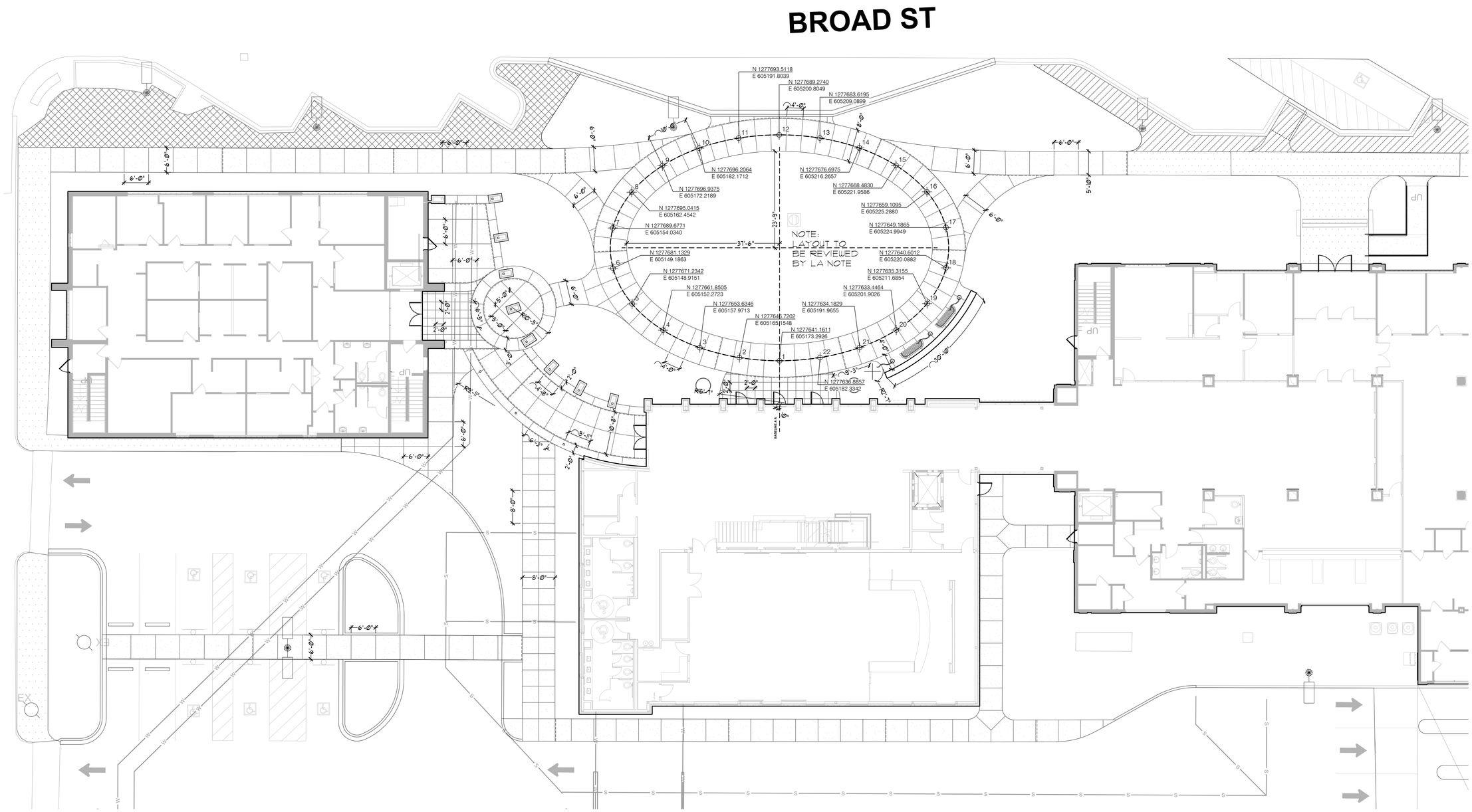
REVISIONS :

NO.	DATE	DESCRIPTION

PROJECT NUMBER:
23-083

DRAWING TITLE:
HARDSCAPE MATERIALS PLAN & DETAILS

SHEET NUMBER:
H1.1



1 HARDSCAPE LAYOUT PLAN
1" = 10'-0"

JOHNSON & CO.
LANDSCAPE ARCHITECTS
LAND PLANNERS

8115 1ST AVENUE NORTH / BIRMINGHAM, AL 35206
PH: (205) 324-4447 • FAX: (205) 324-6066
WEB: JOHNSON-CO.NET

0 5 10 20
SCALE IN FEET

NORTH

STATE OF ALABAMA
WILLIAM REED JOHNSON, JR.
NUMBER 466
REGISTERED LANDSCAPE ARCHITECT

GADSDEN CITY HALL
100% CONSTRUCTION DOCUMENTS

CITY OF GADSDEN
200 Broad St, Gadsden, AL 35901
23-083

KEY PLAN :

ARCHITECT OF RECORD :
WILLIAMS BLACKSTOCK ARCHITECTS
2204 FIRST AVENUE SOUTH, SUITE 200
BIRMINGHAM, ALABAMA 35233

ISSUE DATE:
11-25-2024

REVISIONS :

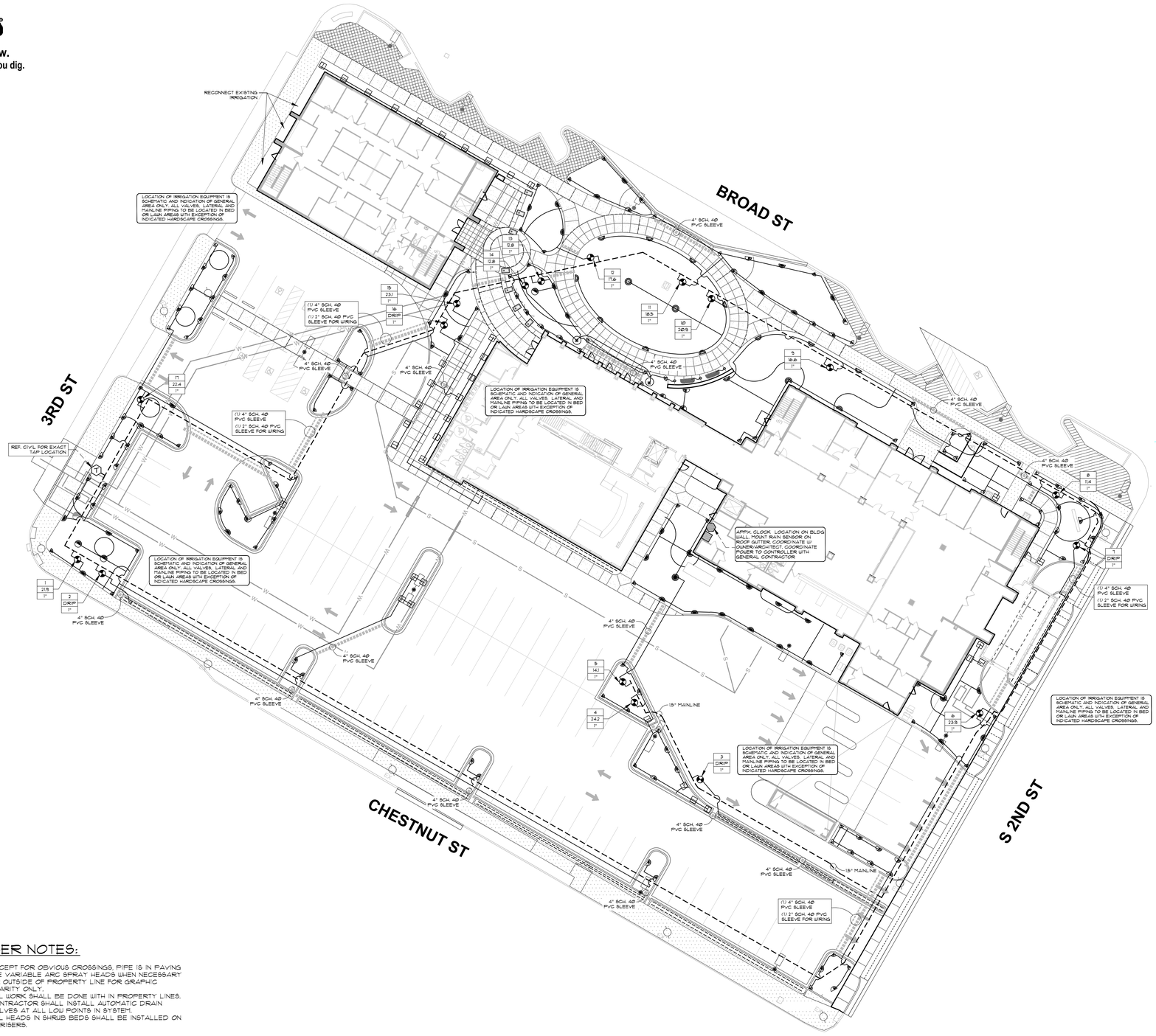
NO.	DATE	DESCRIPTION

PROJECT NUMBER:
23-083

DRAWING TITLE:
HARDSCAPE LAYOUT PLAN

SHEET NUMBER:
H1.2

811
Know what's **below.**
Call before you dig.



IRRIGATION LEGEND

- RAINBIRD ROTORS - 5000-MPR PLUS-40 NOZZLE, 6" POP-UP, 360-30° ARCS
- RAINBIRD SPRAYS - 15 SERIES MPR, 6" POP-UP, 360-30° ARCS
- RAINBIRD SPRAYS - 10 SERIES MPR, 6" POP-UP, 360-30° ARCS
- RAINBIRD SPRAYS - 15 STRIP SERIES, 6" POP-UP, END & SIDE STRIPS
- INDICATES HIGH POP
- RAINBIRD PGA SERIES / RAINBIRD XCZ-100-PRB-COM - SPRAY/DRIP ZONE ELECTRIC REMOTE CONTROL VALVE, SIZE AS PER DRAWINGS
- RAINBIRD OPERND - DRIP SYSTEM OPERATION INDICATOR KIT POP-UP VISUAL INDICATOR
- 3/4" BRASS QUICK COUPLING VALVE IN VALVE BOXES AS PER SPECIFICATIONS
- 1 1/2" MANUAL ISOLATION VALVE IN MAINLINE, STOCKHAM CLASS 150, B-103
- POINT OF CONNECTION - 1.5" TAP, BACKFLOW PREVENTER AND WATER METER BY GENERAL CONTRACTOR
- MANUAL DRAIN VALVE AT LOW POINT IN MAINLINE
- RAINBIRD MICRO SPRAY - MSDSSTKX 360 DOWNSPRAY AT URNS
- RAINBIRD ESPLXIVM 2-WIRE CONTROLLER - COORDINATE POWER REQUIREMENT W/ GENERAL CONTRACTOR
- RAINBIRD RAIN SENSOR - RSD-CEX, HARDWIRE TO CLOCK -MOUNT ON ROOF EDGE
- MAINLINE SCH40 PVC, SIZE AS PER DRAWING
- LATERAL LINE CLASS 200 PVC SIZE AS PER DRAWING
- RAINBIRD XFS-06-18 - SUB SURFACE DRIP LINE
- SLEEVING SCH40 PVC BY IRRIGATION CONTRACTOR SIZE AS PER DRAWING. COORDINATE WITH GENERAL CONTRACTOR
- TOP LINE # INDICATES CONTROLLER CIRCUIT NUMBER
- MIDDLE LINE # IS CALCULATED FLOW IN GALLONS/MINUTE
- BOTTOM LINE # INDICATES SIZE OF VALVE REQUIRED
- SYSTEM DESIGN PRESSURE - 60 PSI

NOTES:

1) POWER TO CONTROLLER BY ELECTRICAL CONTRACTOR
2) USE VARIABLE ARC SPRAY HEADS WHEN NECESSARY
3) THERE IS TO BE (2) 4" PVC SLEEVES EACH TIME MAINLINE CROSSES HARDSCAPE:
   ONE (1) 4" PVC SLEEVE FOR MAINLINE CROSSING
   ONE (1) 2" PVC SLEEVE FOR WIRING AT MAINLINE CROSSING
4) THERE IS TO BE (1) 4" PVC SLEEVE AS REQUIRED FOR ALL LATERAL LINES CROSSING HARDSCAPE.
5) ALL EQUIPMENT REQUIRED BUT NOT SPECIFIED ON THE DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR.
6) VERIFY TAP, IRRIGATION CONTRACTOR TO TEST WATER CONDITIONS AS THEY EXIST.
   IMMEDIATELY DOWN STREAM FROM TAP. IF THEY DO NOT MEET DESIGN DEMANDS,
7) MATCH PRECIPITATION RATES ON ALL CIRCUITS.
8) ALL WORK MUST COMPLY WITH LOCAL CODES.
9) NO ELECTRICAL CONNECTIONS SHALL BE MADE IN THE FIELD EXCEPT AT A VALVE CONTROL BOX OR ANOTHER VALVE BOX SPECIFICALLY FOR CONNECTIONS.
10) ANY DISCREPANCY BETWEEN THIS SHEET AND OTHERS IN THIS SET MUST BE REFERRED TO THE IRRIGATION CONSULTANT BY THE CONTRACTOR FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
11) ALL 24 VOLT WIRE SHALL BE #12 UF/UL FOR COMMON WIRE, AND #14 UF/UL FOR CONTROL WIRES, DIRECT BURIAL SOLID COPPER.
12) CONTRACTOR TO BE RESPONSIBLE FOR PROPER COVERAGE OF AREAS TO BE WATERED. I.E. ADJUST HEADS WITH INSUFICIENT COVERAGE DUE TO BLOCKAGE BY EXISTING OR PROPOSED SITE FEATURES.
13) CONTRACTOR TO REFER TO LANDSCAPE PLAN TO KEEP SPRINKLER EQUIPMENT AND ACCESSORY MATERIAL FROM INTERFERING WITH PROPER PLANTING, I.E. VERIFY ROOTBALL SIZE FOR PLANTING.
14) CONTRACTOR SHALL PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE BOX (WRAP AROUND 3/4" PIPE 12 TIMES).
15) CONTRACTOR TO UTILIZE APPROPRIATE AUTOMATIC DRAIN DEVICE WHERE LOW HEAD DRAINAGE MAY OCCUR.
16) ALL MATERIAL TO BE SUPPLIED BY CONTRACTOR TO OWNER.
   A. TWO WRENCHES FOR DISASSEMBLING AND ADJUSTING EACH TYPE OF SPRINKLER HEADS AND VALVE SUPPLIED.
   B. TWO KEYS FOR EACH OF THE AUTOMATIC CONTROLLERS.
   C. TWO QUICK COUPLER KEYS WITH MATCHING HOSE SWIVELS.
17) 24 VOLT WIRE SHALL BE COLOR CODED: COMMON-WHITE, CONTROL-RED.
18) CONTRACTOR TO ADD EXTENSION RISER TO POP-UP HEADS WHEN NEEDED FOR PROPER COVERAGE.
19) ELECTRIC VALVE CONTROL WIRE TO BE 14 GAUGE MINIMUM. IRRIGATION CONTRACTOR MUST PLACE ONE EXTRA "HOT" WIRE AND ONE EXTRA "COMMON" AT FURTHEST VALVE IN EACH DIRECTION FROM CLOCK.
20) ALL MAIN LINES SHALL BE INSTALLED A MAXIMUM OF 2' FROM THE BACK OF CURBS WHERE POSSIBLE. LATERAL LINES SHALL BE INSTALLED LIKEWISE WHERE POSSIBLE.
21) DO NOT MAKE SUBSTITUTIONS: IF CONTRACTOR DESIRES TO MAKE SUBSTITUTIONS OF MATERIALS, SUFFICIENT DESCRIPTIVE LITERATURE AND MATERIAL SAMPLES MUST BE FURNISHED TO ESTABLISH THE MATERIAL AS AN EQUAL SUBSTITUTE. IN ADDITION, THE CONTRACTOR MUST STATE HIS REASONS FOR DESIRING SUBSTITUTE MATERIALS, SUBMIT THIS REQUEST AND INFORMATION TO LANDSCAPE ARCHITECT.

NOTE

IRRIGATION DESIGNED TO PROVIDE SEPARATION BETWEEN LAWN AND SHRUB ZONES WHERE POSSIBLE. CONTRACTOR IS NOT TO CHANGE ZONE SEPARATION FROM PLANS UNLESS PRIOR APPROVAL IS MADE.

OTHER NOTES:

1) EXCEPT FOR OBVIOUS CROSSINGS, PIPE IS IN PAVING USE VARIABLE ARC SPRAY HEADS WHEN NECESSARY OR OUTSIDE OF PROPERTY LINE FOR GRAPHIC CLARITY ONLY.
2) ALL WORK SHALL BE DONE WITH IN PROPERTY LINES.
3) CONTRACTOR SHALL INSTALL AUTOMATIC DRAIN VALVES AT ALL LOW POINTS IN SYSTEM.
4) ALL HEADS IN SHRUB BEDS SHALL BE INSTALLED ON 12" RISERS.

IRRIGATION NOTES

1. THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THERE ARE OTHER ACTIVE UTILITIES AND SERVICES IN AND AROUND THE SITE. CONTRACTOR IS RESPONSIBLE FOR LOCATING THESE TO AVOID DAMAGE TO THEM.
2. THE CONTRACTOR SHALL MAKE ANY NECESSARY ADJUSTMENTS IN THE PROPOSED IRRIGATION SYSTEM TO AVOID ANY DAMAGE TO EXISTING STRUCTURES, PAVING, AND UTILITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ON-SITE UTILITIES, STRUCTURES, OR PAVING RESULTING FROM IRRIGATION CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMING TO ALL CODES AND ORDINANCES RELEVANT TO THE WORK UNDER THIS CONTRACT.
5. ALL WORK, ADJUSTMENTS, AND INSPECTIONS SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS AND LABOR TO FULLY EXECUTE AND GUARANTEE, AS REQUIRED, THE TOTAL WORK SHOWN ON THIS PLAN IN ACCORDANCE WITH SPECIFICATIONS, AND ALSO AS PER INSTRUCTIONS OF THE LANDSCAPE ARCHITECT AND THE OWNER.
7. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES TO ASSURE ADEQUATE INSTALLATION OF THE SYSTEM.
8. THE LOCATION OF THE AUTOMATIC CONTROL CLOCK IS GENERALLY INDICATED ON THE DRAWING AND WILL BE SPECIFICALLY LOCATED ON-SITE BY THE LANDSCAPE ARCHITECT OR OWNER.
9. LINE LOCATIONS AS INDICATED ON THE PLAN ARE SCHEMATIC. THE CONTRACTOR SHALL LOCATE ALL LINES IN SUCH A WAY AS TO CAUSE THE LEAST CONFLICT WITH THE LOCATION OF PROPOSED PLANT MATERIALS (AS SHOWN ON THE LANDSCAPE PLANTING PLAN) AND OTHER SITE AMENITIES.
10. ALL MAIN LINES SHALL BE INSTALLED A MAXIMUM OF 2' FROM THE BACK OF CURBS WHERE POSSIBLE. LATERAL LINES SHALL BE INSTALLED LIKEWISE WHERE POSSIBLE.
11. ALL MAINLINES SHALL BE INSTALLED AT A MINIMUM OF 18" DEEP AND ALL LATERAL LINES SHALL BE INSTALLED AT A MINIMUM OF 12" DEEP.
12. ACTUAL HEAD PLACEMENT IN PARKING LOT ISLANDS IS TO BE 18" FROM BACK OF CURB FOR SHRUB PLANTINGS AND 6" FROM BACK OF CURB FOR LAWN.
13. THE CONTRACTOR SHALL ADJUST THE RADIUS AND ARC OF EACH HEAD TO MINIMIZE "OVERTHROW" AND TO ELIMINATE "DRY SPOTS".
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPLY AND INSTALLATION OF ADDITIONAL HEADS NEEDED TO COVER "DRY SPOTS" OR SLIGHT VARIATIONS FROM THE PLAN TO THE SITE. THE LOCATION AND ARRANGEMENT OF THESE HEADS SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.
15. THE ELECTRIC SUPPLY WILL BE STUBBED OUT AT THE CONTROL CLOCK LOCATION BY OTHERS. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL CONNECTIONS FROM CONTROL VALVES TO THE CONTROL CLOCK. COORDINATE ELECTRIC SUPPLY WITH GENERAL CONTRACTOR.
16. THE ENTIRE SYSTEM SHALL BE UNCONDITIONALLY GUARANTEED BY THE IRRIGATION CONTRACTOR AGAINST ALL DEFECTIVE WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FOLLOWING THE DATE OF FINAL ACCEPTANCE.

SLEEVING NOTES

1. THE LOCATIONS OF SLEEVES, AS SHOWN ON THIS PLAN, ARE SCHEMATIC. THE CONTRACTOR SHALL MAKE ANY ADJUSTMENT NECESSARY TO ACCOMMODATE EXISTING VEGETATION, UTILITIES, NATURAL BARRIERS OR OTHER MAJOR CONSTRUCTION.
2. ANY DAMAGE TO EXISTING UTILITIES, STRUCTURES, OR OTHER CONSTRUCTION RESULTING FROM INSTALLATION OF SLEEVES IS THE RESPONSIBILITY OF THE CONTRACTOR.
3. WHERE A JOINT BETWEEN PIPE SECTIONS IS NECESSARY, THE INSIDE DIAMETER OF THE PIPE SHALL NOT BE SIGNIFICANTLY REDUCED.
4. PVC SLEEVES SHALL BE INSTALLED AT A DEPTH OF AT LEAST 18" (BELOW PAVEMENT SURFACE, AND NO DEEPER THAN 24". END OF SLEEVE SHALL EXTEND 12" BEYOND CURB OR PAVEMENT EDGE.
5. BACKFILL MATERIAL PLACED AROUND THE SLEEVES SHALL BE FREE OF ROCKS OR OTHER FOREIGN MATTER THAT MAY CAUSE DAMAGE TO THE PIPE.
6. THE CONTRACTOR SHALL INSTALL A PVC STUB THAT IS AT LEAST 18" ABOVE GRADE AT EACH END OF THE SLEEVE TO MARK ITS EXACT LOCATION. IRRIGATION SLEEVES SHALL BE INDICATED WITH BLUE RIBBON. ELECTRICAL SLEEVES SHALL BE INDICATED WITH ORANGE RIBBON. SEE SLEEVING DETAIL.
7. ONCE THE SLEEVE IS INSTALLED, THE CONTRACTOR SHALL INSTALL A TEMPORARY CAP ON EACH END OF THE PIPE ACCORDING TO THE DETAIL TO PREVENT SOIL OR OTHER DEBRIS FROM ENTERING THE PIPE.
8. ALL MODIFICATIONS OF THIS PLAN ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.
9. THE CONTRACTOR SHALL SUPPLY THE LANDSCAPE ARCHITECT WITH AN "AS-BUILT" PLAN OF THE LOCATION OF ALL SLEEVES PRIOR TO ACCEPTANCE OF WORK.
10. ALL PVC SHOULD BE SCH40 PVC PIPE

JOHNSON & CO.
LANDSCAPE ARCHITECTS
LAND PLANNERS
8115 1ST AVENUE NORTH / BIRMINGHAM, AL 35203
PH: (205) 324-4447 • FAX: (205) 324-6069
WEB: JOHNSON-CO.NET

0 10 20 40
SCALE IN FEET
NORTH

STATE OF ALABAMA
WILLIAM REED JOHNSON, JR.
NUMBER 466
REGISTERED LANDSCAPE ARCHITECT

GADSDEN CITY HALL
100% CONSTRUCTION DOCUMENTS

CITY OF GADSDEN
200 Broad St, Gadsden, AL 35901
23-083

KEY PLAN :

ARCHITECT OF RECORD :
WILLIAMS BLACKSTOCK ARCHITECTS
2204 FIRST AVENUE SOUTH, SUITE 200
BIRMINGHAM, ALABAMA 35233

ISSUE DATE:
11-25-2024

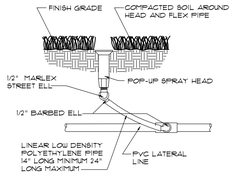
REVISIONS :

NO.	DATE	DESCRIPTION

PROJECT NUMBER:
23-083

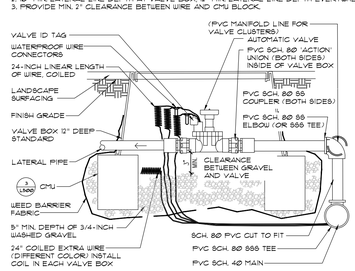
DRAWING TITLE:
IRRIGATION PLAN

SHEET NUMBER:
LI.1



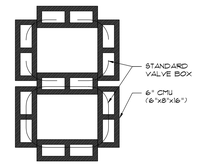
1 SPRAY AND ROTOR HEAD ASSEMBLY
NOT TO SCALE

NOTES:
1. LIMIT 1 VALVE PER BOX.
2. 18" MIN. LATERAL LINE DEPTH AT VALVE BOX. 12" MIN. LATERAL LINE DEPTH EVERYWHERE ELSE.
3. PROVIDE MIN. 2" CLEARANCE BETWEEN WIRE AND CMU BLOCK.

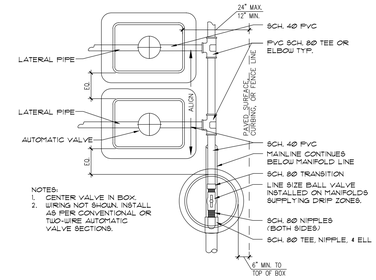


2 AUTOMATIC VALVE WITH CONVENTIONAL WIRE SYSTEM
NOT TO SCALE

NOTES:
1. VALVE BOX TO REST ON (4) CMU BLOCKS (ONE FOR EACH SIDE).
2. CLUSTERED VALVE BOXES MAY SHARE A CMU BLOCK.

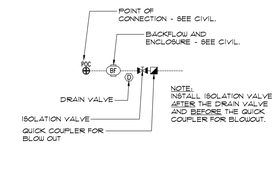


3 CMU PLACEMENT
NOT TO SCALE

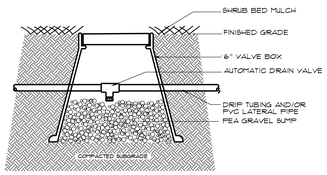


NOTES:
1. CENTER VALVE IN BOX.
2. WIRING NOT SHOWN. INSTALL AS PER CONVENTIONAL OR TWO-WIRE AUTOMATIC VALVE SECTIONS.

4 MANIFOLD & VALVE ASSEMBLY
NOT TO SCALE

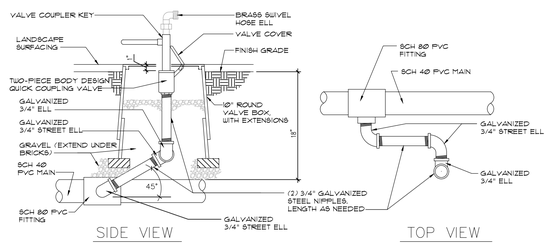


5 BACKFLOW PREVENTER ASSEMBLY
NOT TO SCALE

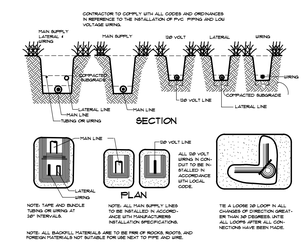


NOTE: TO BE INSTALLED ON ALL LOW POINTS ON SYSTEM

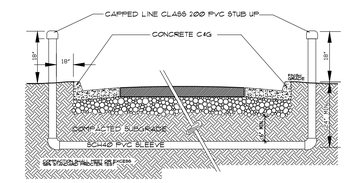
6 AUTOMATIC DRAIN VALVE DETAIL
NOT TO SCALE



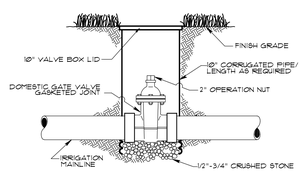
7 QUICK COUPLING VALVE DETAIL
NOT TO SCALE



8 TRENCHING DETAIL
NOT TO SCALE

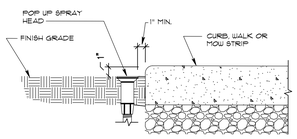


9 SLEEVING DETAIL
NOT TO SCALE

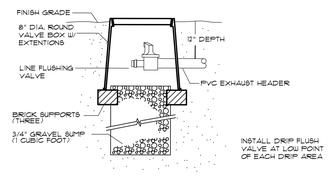


NOTE:
IF DEPTH LESS THAN 18" INSTEAD OF CORRUGATED PIPE USE VALVE BOX AND INSTEAD OF OPERATION NUT, USE VALVE WHEEL

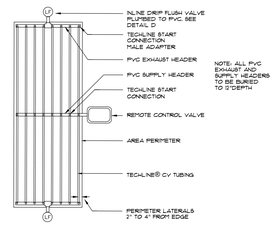
10 ISOLATION VALVE DETAIL
NOT TO SCALE



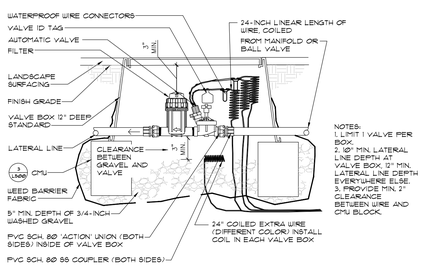
11 SPRAY HEAD OR ROTOR NEXT TO CURB OR WALK
NOT TO SCALE



12 INLINE DRIP FLUSH VALVE
NOT TO SCALE

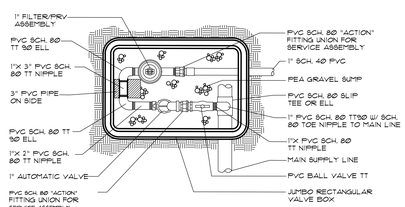


13 INLINE DRIP CENTER FEED LAYOUT
NOT TO SCALE

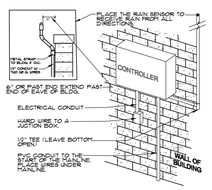


NOTES:
1. LIMIT 1 VALVE PER BOX.
2. 18" MIN. LATERAL LINE DEPTH AT VALVE BOX. 12" MIN. LATERAL LINE DEPTH EVERYWHERE ELSE.
3. PROVIDE MIN. 2" CLEARANCE BETWEEN WIRE AND CMU BLOCK.

14 DRIP VALVE ASSEMBLY - CONVENTIONAL SYSTEM
NOT TO SCALE



15 DRIP VALVE ASSEMBLY
NOT TO SCALE



16 CONTROLLER DETAIL
NOT TO SCALE

JOHNSON & CO.
LANDSCAPE ARCHITECTS
LAND PLANNERS

8115 1ST AVENUE NORTH / BIRMINGHAM, AL 35203
PH: (205) 324-4447 • FAX: (205) 324-8068
WEB: JOHNSON-CO.NET

STATE OF ALABAMA
WILLIAM REED JOHNSON, JR.
NUMBER 466
REGISTERED LANDSCAPE ARCHITECT

GADSDEN CITY HALL
100% CONSTRUCTION DOCUMENTS

CITY OF GADSDEN
200 Broad St, Gadsden, AL 35901
23-083

KEY PLAN :

ARCHITECT OF RECORD :
WILLIAMS BLACKSTOCK ARCHITECTS
2204 FIRST AVENUE SOUTH, SUITE 200
BIRMINGHAM, ALABAMA 35233

ISSUE DATE:
11-25-2024

REVISIONS :

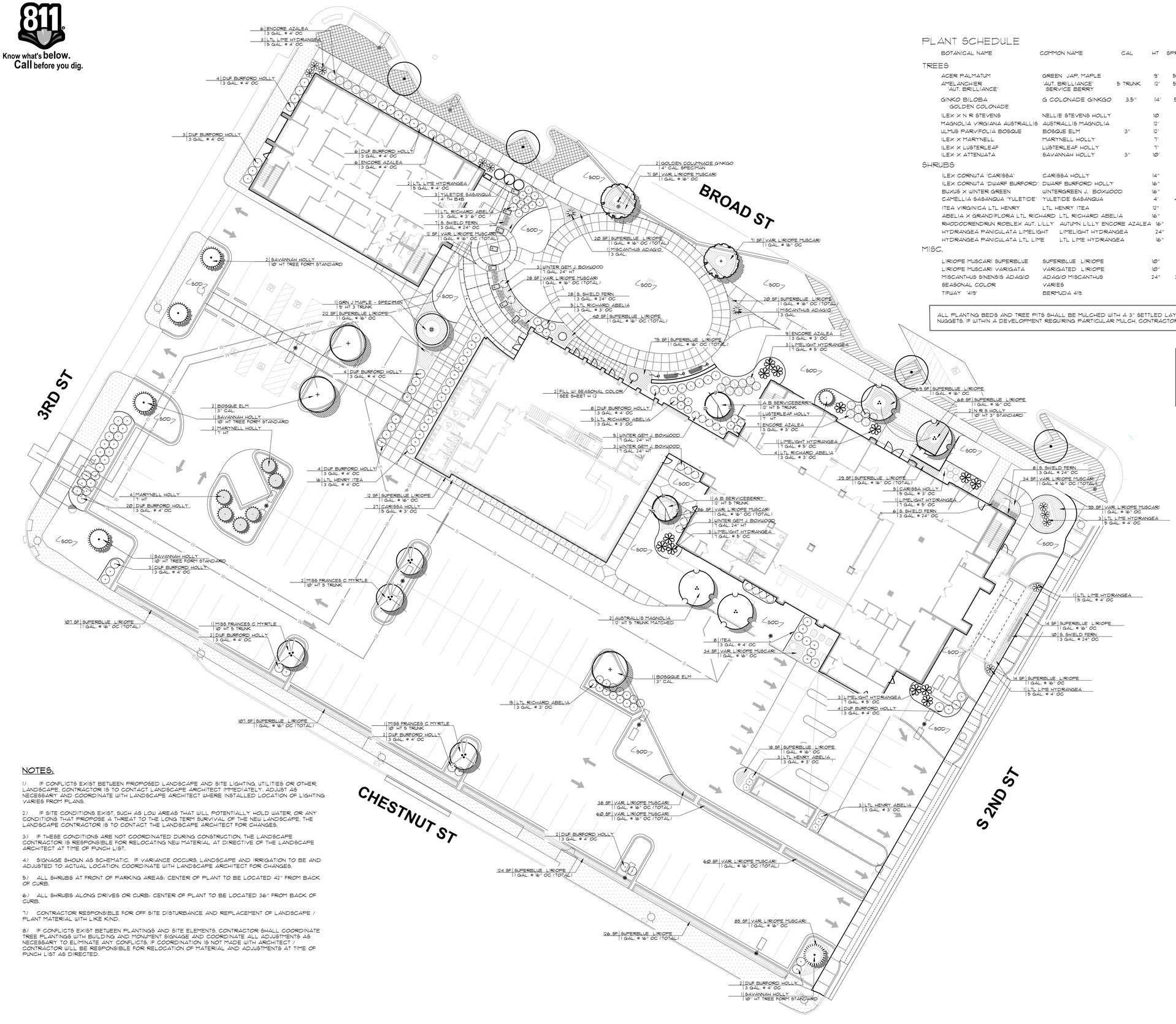
NO.	DATE	DESCRIPTION

PROJECT NUMBER:
23-083

DRAWING TITLE:
IRRIGATION DETAILS

SHEET NUMBER:
L1.2

811
Know what's below.
Call before you dig.



PLANT SCHEDULE

BOTANICAL NAME	COMMON NAME	CAL	HT	SPREAD	RB/SIZE	SPACING	COMMENTS
TREES							
ACER PALMATUM	GREEN JAP. MAPLE		9'	5'	ANA STANDARD		3 CANE, SPECIMAN
AMELANCHIER 'AUT. BRILLIANCE'	'AUT. BRILLIANCE' SERVICE BERRY	5 TRUNK	12'	5'	ANA STANDARD		WELL BRANCHED
GINKO BILOBA GOLDEN COLONADE	G COLONADE GINKGO	3.5"	14'	5'	ANA STANDARD		WELL BRANCHED, MALE
ILEX X N R STEVENS	NELLIE STEVENS HOLLY		10	5'	ANA STD		STANDARD
MAGNOLIA VIRGIANA AUSTRALLIS	AUSTRALLIS MAGNOLIA		12'	5'	ANA STD		STANDARD
ULMUS PARVIFOLIA BOSQUE	BOSQUE ELM	3"	12'	5'	ANA STD		STANDARD
ILEX X MARYNELL	MARYNELL HOLLY		7'	4'	ANA STD		FULL TO GROUND
ILEX X LUSTERLEAF	LUSTERLEAF HOLLY		7'	4'	ANA STD		FULL TO GROUND
ILEX X ATTENUATA	SAVANNAH HOLLY	3"	10'	4'	ANA STD		STANDARD
SHRUBS							
ILEX CORNUTA 'CARISSA'	CARISSA HOLLY		14"	12"		3 GAL. @ 3' O.C.	FULL PLANT
ILEX CORNUTA 'DWARF BURFORD'	DWARF BURFORD HOLLY		16"	14"		3 GAL. @ 4' O.C.	FULL PLANT
BUXUS X WINTER GREEN	WINTERGREEN J. BOXWOOD		16"	12"			FULL PLANT
CAMELLIA SASANQUA 'YULETIDE'	YULETIDE SASANQUA		4'	40"		B&B	FULL PLANT
ITEA VIRGINICA LTL HENRY	LTL HENRY ITEA		12"	18"		3 GAL 4' OC	FULL PLANT
ABELIA X GRANDIFLORA LTL RICHARD	LTL RICHARD ABELIA		16"	14"		3 GAL 4' OC	FULL PLANT
RHODODRENDRUN ROBLEX AUT. LILLY	AUTUMN LILLY ENCORE AZALEA		16"	14"		3 GAL 4' OC	FULL PLANT
HYDRANGEA PANICULATA LIMELIGHT	LIMELIGHT HYDRANGEA		24"	18"		7 GAL 5' OC	FULL PLANT
HYDRANGEA PANICULATA LTL LIME	LTL LIME HYDRANGEA		16"	14"		5 GAL 4' OC	FULL PLANT
MISC.							
LIRIOPE MUSCARI SUPERBLUE	SUPERBLUE LIRIOPE		10"	8"		GAL. @ 18" OC	FULL PLANT
LIRIOPE MUSCARI VARIGATA	VARIGATED LIRIOPE		10"	8"		GAL. @ 18" OC	FULL PLANT
MISCANTHUS SINENSIS ADAGIO	ADAGIO MISCANTHUS		24"	24"		3 GAL.	FULL PLANT
SEASONAL COLOR	VARIES					QUART AT 14" OC	FULL PLANT
TIFWAY '419'	BERMUDA 419					SODDED AREAS	FULL PLANT

ALL PLANTING BEDS AND TREE PITS SHALL BE MULCHED WITH A 3" SETTLED LAYER OF SINGLE SHREDDED MULCH - NO NUGGETS. IF WITHIN A DEVELOPMENT REQUIRING PARTICULAR MULCH, CONTRACTOR TO INSTALL AS REQUIRED WITH APPROVAL.

PROJECT WILL BE REVIEWED FOR PLAN CONFORMITY BY LANDSCAPE ARCHITECT. ALL MATERIAL TO BE GRADE A1 MEETING NURSERY STANDARDS AND PLANT LIST SPECIFICATIONS. MATERIAL NOT MEETING SPECIFICATIONS OR NOT SUPERIOR QUALITY WILL BE REJECTED AT TIME OF PUNCH LIST AND SUBJECT TO REPLACEMENT BY CONTRACTOR AT HIS OR HER EXPENSE.

NOTES.

1) IF CONFLICTS EXIST BETWEEN PROPOSED LANDSCAPE AND SITE LIGHTING, UTILITIES OR OTHER, LANDSCAPE, CONTRACTOR IS TO CONTACT LANDSCAPE ARCHITECT IMMEDIATELY, ADJUST AS NECESSARY AND COORDINATE WITH LANDSCAPE ARCHITECT WHERE INSTALLED LOCATION OF LIGHTING VARIES FROM PLANS.

2) IF SITE CONDITIONS EXIST, SUCH AS LOW AREAS THAT WILL POTENTIALLY HOLD WATER, OR ANY CONDITIONS THAT PROPOSE A THREAT TO THE LONG TERM SURVIVAL OF THE NEW LANDSCAPE, THE LANDSCAPE CONTRACTOR IS TO CONTACT THE LANDSCAPE ARCHITECT FOR CHANGES.

3.) IF THESE CONDITIONS ARE NOT COORDINATED DURING CONSTRUCTION, THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR RELOCATING NEW MATERIAL AT DIRECTIVE OF THE LANDSCAPE ARCHITECT AT TIME OF PUNCH LIST.

4) SIGNAGE SHOWN AS SCHEMATIC. IF VARIANCE OCCURS, LANDSCAPE AND IRRIGATION TO BE AND ADJUSTED TO ACTUAL LOCATION. COORDINATE WITH LANDSCAPE ARCHITECT FOR CHANGES.

5.) ALL SHRUBS AT FRONT OF PARKING AREAS: CENTER OF PLANT TO BE LOCATED 42" FROM BACK OF CURB.

6.) ALL SHRUBS ALONG DRIVES OR CURB: CENTER OF PLANT TO BE LOCATED 36" FROM BACK OF CURB.

7.) CONTRACTOR RESPONSIBLE FOR OFF SITE DISTURBANCE AND REPLACEMENT OF LANDSCAPE / PLANT MATERIAL WITH LIKE KIND.

8.) IF CONFLICTS EXIST BETWEEN PLANTINGS AND SITE ELEMENTS CONTRACTOR SHALL COORDINATE TREE PLANTINGS WITH BUILDING AND MONUMENT SIGNAGE AND COORDINATE ALL ADJUSTMENTS AS NECESSARY TO ELIMINATE ANY CONFLICTS. IF COORDINATION IS NOT MADE WITH ARCHITECT / CONTRACTOR WILL BE RESPONSIBLE FOR RELOCATION OF MATERIAL AND ADJUSTMENTS AT TIME OF PUNCH LIST AS DIRECTED.

JOHNSON & CO.
LANDSCAPE ARCHITECTS
LAND PLANNERS
8118 1ST AVENUE NORTH / BIRMINGHAM, AL 35206
PH: (205) 324-4447 • FAX: (205) 324-8066
WEB: JOHNSON-CO.NET

0 10 20 40
SCALE IN FEET
NORTH

STATE OF ALABAMA
WILLIAM REED JOHNSON, JR.
NUMBER 466
REGISTERED LANDSCAPE ARCHITECT

GADSDEN CITY HALL
100% CONSTRUCTION DOCUMENTS

CITY OF GADSDEN
200 Broad St, Gadsden, AL 35901
23-083

KEY PLAN :

ARCHITECT OF RECORD :
WILLIAMS BLACKSTOCK ARCHITECTS
2204 FIRST AVENUE SOUTH, SUITE 200
BIRMINGHAM, ALABAMA 35233

ISSUE DATE:
11-25-2024

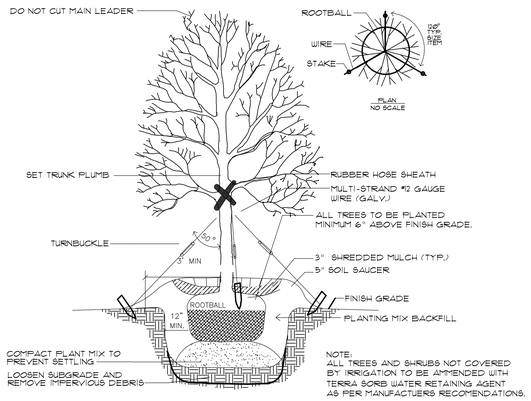
REVISIONS :

NO.	DATE	DESCRIPTION

PROJECT NUMBER:
23-083

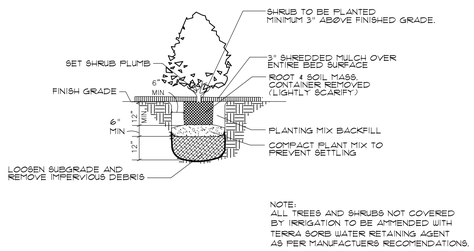
DRAWING TITLE:
LANDSCAPE PLAN

SHEET NUMBER:
L2.1



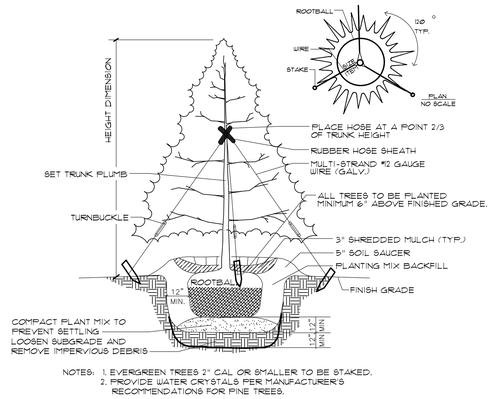
1 DETAIL TYPICAL TREE PLANTING AND GUYING

NOT TO SCALE



2 DETAIL TYPICAL CONTAINERIZED SHRUB PLANTING

NOT TO SCALE



3 DETAIL EVERGREEN TREE PLANTING

NOT TO SCALE

GENERAL NOTES

CONTRACTOR SHALL BE RESPONSIBLE FOR THE SITE INSPECTION PRIOR TO LANDSCAPE CONSTRUCTION AND INSTALLATION IN ORDER TO ACQUAINT HIMSELF WITH EXISTING CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES BEFORE BEGINNING CONSTRUCTION.

CONTRACTOR SHALL VERIFY PLANT COUNT FROM PLAN AND REPORT DIFFERENCES.

ALL TREES AND SPECIMEN PLANT MATERIAL SHALL BE LOCATED BY THE CONTRACTOR AT APPROVED NURSERIES OR THEIR EQUAL APPROVED PRIOR TO BIDDING.

ALL PLANT MATERIALS ARE SUBJECT TO APPROVAL OR REFUSAL BY THE LANDSCAPE ARCHITECT AT THE JOB SITE.

CONTRACTOR SHALL LAYOUT TREES AND BED LINES FOR REVIEW BY LANDSCAPE ARCHITECT PRIOR TO PLANTING. A MINIMUM 24 HOUR NOTICE SHOULD BE GIVEN AND ANTICIPATED BY THE CONTRACTOR FOR THIS REVIEW.

CONTRACTOR SHALL SUPPLY AND SPREAD 4" TOP-SOIL IN SHRUB BEDS AND ALL AREAS TO BE SEEDED UNLESS OTHERWISE NOTED IN SPECIFICATIONS.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING 3% POSITIVE DRAINAGE IN ALL PLANT AREAS.

PLANTS SHALL BE WELL FORMED, VIGOROUS, GROWING SPECIMENS WITH GROWTH TYPICAL OF VARIETIES SPECIFIED AND SHALL BE FREE FROM INJURY, INSECTS AND DISEASES. PLANTS SHALL EQUAL OR SURPASS QUALITY AS DEFINED IN THE CURRENT ISSUE OF NURSERY "AMERICAN STANDARDS FOR NURSERY STOCK" AS PUBLISHED BY THE AMERICAN NURSERYMEN, INC.

ALL PLANT MATERIAL SHALL BE BALLED AND BURLAPPED OR CONTAINER GROUN.

ALL SHRUBS, TREES AND GROUND COVERS SHALL BE PLANTED WITH A SOIL MIXTURE CONSISTING OF 50% TOPSOIL AND 50% ORGANIC MATERIAL AND PER SPECIFICATIONS.

FRONT ROW OR SHRUBS SHALL E PLANTED MINIMUM 24" BEHIND BED LINE @ LAWNS OR WALKS AND MINIMUM 36" BACK OR CURB @ PARKING SPACES.

BACK ROW OF SHRUB PLANTING SHALL BE PLANTED @ 36" OFF FACE OF BUILDING WALL. GROUND COVERS SHALL BE 12" OUT FROM BUILDING AS REQUIRED BY PLANT SPECIFICATIONS.

EXCAVATE EDGE OF ALL PLANTING BEDS TO 4" DEPTH TO FORM A NEAT CRISP DEFINITION.

ALL PLANTING BEDS AND TREE PITS SHALL BE MULCHED WITH A 3" SETTLED LAYER OF SINGLE SHREDDED MULCH - NO NUGGETS, IF WITHIN A DEVELOPMENT REQUIRING PARTICULAR MULCH, CONTRACTOR TO INSTALL AS REQUIRED WITH APPROVAL.

GRASS: ALL AREAS TO BE GRASSED SHALL BE TILLED AND GRADED TO A DEPTH OF 6". SLAG OF LIME SHALL BE APPLIED AT A RATE OF 100 POUNDS PER 1000 SQ FT. ADD TURF GREEN OR EQUAL (12-5-8 SLOW RATE) AT A RATE OF 50 POUNDS PER 1000 SQ. FT. SEEDED AREAS SHALL BE COVERED WITH A THIN LAYER OF WHEAT STRAW.

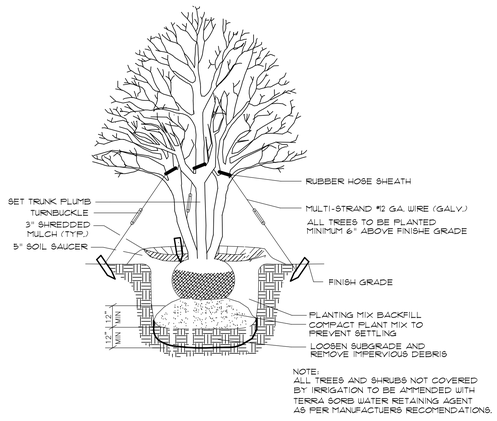
GRADE ALL AREAS FOR APPROVAL BY LANDSCAPE ARCHITECT BEFORE SODDING.

SEASONAL COLOR SHALL BE PLANTED IN FLOWERING STATE.

CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL, INCLUDING GRASS FOR ONE FULL YEAR FROM DATE OF SUBSTANTIAL COMPLETION.

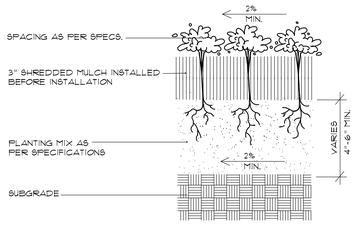
REMOVE ALL GUY WIRES AND STAKES AT END OF GUARANTEE PERIOD.

WHEN TREES ARE PLANTED THE MONTHS OF MARCH THRU OCTOBER, THE LANDSCAPE CONTRACTOR SHALL AMEND THE SOIL MIX WITH A MOISTURE RETENTION AGENT AS 'TERRA-SORB' OR EQUAL FOR EACH TREE INSTALLATION.



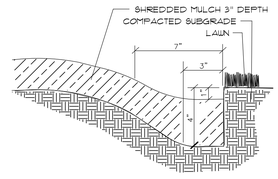
5 DETAIL MULTI-TRUNKED TREE PLANTING

NOT TO SCALE



6 GROUND COVER DETAIL

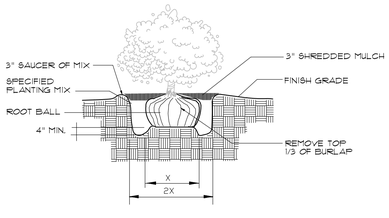
NOT TO SCALE



NOTE: TRENCH EDGE TO BE LOCATED BETWEEN PLANTING BEDS, AROUND TREE PITS AND ALL LAWN AREAS.

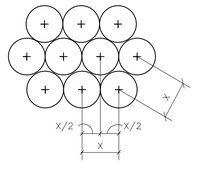
7 TRENCH EDGER DETAIL FOR ALL BEDS

NOT TO SCALE



8 B&B SHRUB DETAIL

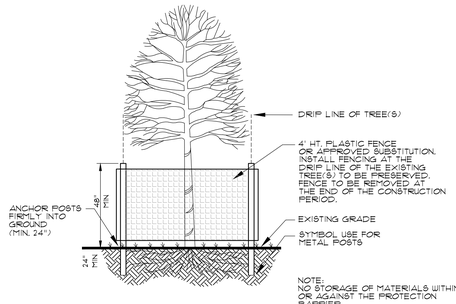
NOT TO SCALE



NOTES: 1. SEE PLANTING PLANS FOR SHRUB & GROUNDCOVER BED AREAS.
2. ROWS SHALL BE STRAIGHT & PARALLEL.
3. SPACING SHOWN ON PLANT SCHEDULE (X).

9 DETAIL TYPICAL STAGGERED ROW SPACING

NOT TO SCALE



10 TREE PROTECTION DETAIL

NOT TO SCALE

JOHNSON & CO.
LANDSCAPE ARCHITECTS
LAND PLANNERS

8115 1ST AVENUE NORTH // BIRMINGHAM, AL 35203
PH: (205) 324-4447 • FAX: (205) 324-8068
WEB: JOHNSON-CO.NET

STATE OF ALABAMA
WILLIAM REED JOHNSON, JR.
NUMBER 466
REGISTERED LANDSCAPE ARCHITECT

GADSDEN CITY HALL
100% CONSTRUCTION DOCUMENTS

CITY OF GADSDEN
200 Broad St., Gadsden, AL 35901
23-083

KEY PLAN :

ARCHITECT OF RECORD :

WILLIAMS BLACKSTOCK ARCHITECTS

2204 FIRST AVENUE SOUTH, SUITE 200
BIRMINGHAM, ALABAMA 35233

ISSUE DATE:

11-25-2024

REVISIONS :

NO.	DATE	DESCRIPTION

PROJECT NUMBER:

23-083

DRAWING TITLE:

LANDSCAPE DETAILS

SHEET NUMBER:

L2.2

GENERAL NOTES

1.0 DESIGN CRITERIA

1.1 CODES AND SPECIFICATIONS:

A. GENERAL BUILDING CODE:
INTERNATIONAL BUILDING CODE, 2021 EDITION

B. CONCRETE:
BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-19)

C. STRUCTURAL STEEL:
SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (ANSI/AISC 360-16)

D. OPEN WEB STEEL JOISTS:
STANDARD SPECIFICATIONS AND LOAD TABLES FOR STEEL JOISTS AND JOIST GIRDERS, STEEL JOIST INSTITUTE, LATEST EDITION

E. STEEL DECK:
STEEL DECK INSTITUTE DESIGN MANUALS FOR COMPOSITE DECKS, NON-COMPOSITE DECKS, AND ROOF DECKS, LATEST EDITION

F. MASONRY:
SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1-13)
BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-13)

NATIONAL CONCRETE MASONRY ASSOCIATION'S STANDARD PRACTICES AND "SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY", LATEST EDITION

G. COLD-FORMED STEEL FRAMING:
NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AMERICAN IRON AND STEEL INSTITUTE (AISI S100-16[2020] W/S2-20)

OTHER APPLICABLE AISI STANDARDS, AMERICAN IRON AND STEEL INSTITUTE, LATEST EDITION

1.2 DESIGN GRAVITY LOADS (PSF):

A. DEAD LOADS:
ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS SHALL BE REPORTED BY THE GENERAL CONTRACTOR TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOAD-CARRYING CAPACITY OF THE STRUCTURE.

B. FLOOR LIVE LOADS:
NON-REDUCIBLE PARTITION LIVE LOAD OF 20 PSF HAS BEEN INCLUDED PER IBC SECTION 1607.5.

LIVE LOAD REDUCTIONS AS DETERMINED BY IBC SECTION 1607.12 HAVE BEEN TAKEN WHERE PERMITTED.

FLOOR (REDUCIBLE)--100
STORAGE--125

C. ROOF LIVE LOADS:
WHERE PERMITTED ROOF LIVE LOADS ARE REDUCED FROM THE BASE VALUE SHOWN BELOW IN ACCORDANCE WITH IBC SECTION 1607.14.

ROOF--20

D. ROOF SNOW LOADS:
GROUND SNOW LOAD (Pg)------------------------------------5.0
IMPORTANCE FACTOR (I)------------------------------------1.0
EXPOSURE FACTOR (Ce)-------------------------------------0.9
THERMAL FACTOR (Ct)--------------------------------------1.0

1.3 DESIGN LATERAL LOADS:

A. WIND LOADS:
ULTIMATE DESIGN WIND SPEED (3-SECOND GUST)------------113MPH
NOMINAL WIND SPEED (3-SECOND GUST)---------------------90MPH
RISK CATEGORY--III
WIND IMPORTANCE FACTOR (I)------------------------------1.00
WIND EXPOSURE CATEGORY-------------------------------------C
ENCLOSURE CATEGORY----------------------------------ENCLOSED
INTERNAL PRESSURE COEFFICIENTS------------------- +/- 0.18
SEE TYPICAL DETAILS FOR COMPONENT AND CLADDING LOADS

B. SEISMIC LOADS:
OCCUPANCY CATEGORY III
SEISMIC IMPORTANCE FACTOR-------------------------------1.25
MAPPED SPECTRAL RESPONSE ACCELERATIONS:
SS---0.274
S1---0.100
SITE CLASS PER GEOTECHNICAL REPORT-------------------------C
SPECTRAL RESPONSE COEFFICIENTS:
SDS--0.238
SD1--0.100
SEISMIC DESIGN CATEGORY------------------------------------B
BASIC SEISMIC-FORCE-RESISTING SYSTEM:
STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
DESIGN BASE SHEAR-----------------------------------115 KIPS
SEISMIC RESPONSE COEFFICIENT, Cs-----------------------0.099
RESPONSE MODIFICATION FACTOR, R----------------------------3
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

2.0 GENERAL CONDITIONS

2.1 THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE A PORTION OF THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL REFERENCE AND COORDINATE WITH OTHER DISCIPLINE'S DRAWINGS. ANY DISCREPANCIES OR OMISSIONS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT AND STRUCTURAL DESIGN GROUP.

2.2 ALL REPORTS, PLANS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES, AND OTHER DOCUMENTS AND INSTRUMENTS PREPARED BY STRUCTURAL DESIGN GROUP AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF STRUCTURAL DESIGN GROUP. STRUCTURAL DESIGN GROUP SHALL RETAIN ALL COMMON LAW, STATUTORY, AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THERETO.

2.3 STRUCTURAL DESIGN GROUP MAY CONSIDER TRANSFERRING COMPUTER AIDED DRAFTING FILES TO THE GENERAL CONTRACTOR'S SUBCONTRACTORS, ON A CASE-BY-CASE BASIS, FOR THEIR CONVENIENCE IN PREPARING SHOP FABRICATION DRAWINGS AT A COST OF $75 PER SHEET. FILES CAN BE TRANSFERRED UPON COMPLETION OF A CAD FILE TRANSFER AGREEMENT AND RECEIPT OF FULL PAYMENT.

2.4 WHERE SHOP DRAWINGS, CALCULATIONS, OR SUBMITTALS ARE CALLED FOR IN THE PROJECT DOCUMENTS (DRAWINGS AND SPECIFICATIONS) AND ARE NOT PROVIDED BY THE CONTRACTOR, THE CONTRACTOR ASSUMES TOTAL RESPONSIBILITY FOR THE DESIGN AND ASSOCIATED WORK.

2.5 ENGINEER'S SHOP DRAWING REVIEW IS LIMITED TO REVIEW FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT REFLECTED IN THE STRUCTURAL PORTION OF THE CONTRACT DOCUMENTS. THIS REVIEW DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE DRAWINGS, SPECIFICATIONS OR OTHER PROJECT CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED OR IMPLIED FOR THE CORRECTNESS OF DIMENSIONS OR DETAILS. THIS REVIEW DOES NOT AUTHORIZE CHANGES TO THE CONTRACT SUM UNLESS STATED IN A SEPARATE WRITTEN FORM OR CHANGE ORDER. CONTRACTOR SHALL CONFIRM AND CORRELATE ALL QUANTITIES AND DIMENSIONS, SELECT FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATE HIS WORK WITH THAT OF OTHER TRADES, AND PERFORM HIS WORK IN A SAFE AND SATISFACTORY MANNER. CONTRACTOR SHALL ALSO REFER TO THE REQUIREMENTS OF THE GENERAL AND SUPPLEMENTARY GENERAL CONDITIONS.

2.6 ALL DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS, UNLESS NOTED.

2.7 VERIFY ALL DIMENSIONS AND DETAILS SHOWN ON THESE DRAWINGS. ANY DISCREPANCIES OR OMISSIONS FOUND SHALL BE REPORTED TO THE ENGINEER AND OTHER DESIGN PROFESSIONALS AS APPROPRIATE FOR RESOLUTION PRIOR TO PROCEEDING WITH ANY RELATED WORK.

2.8 THESE DRAWINGS DO NOT INCLUDE PROVISIONS TO SATISFY JOB SITE SAFETY REQUIREMENTS. CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING SAFETY DURING CONSTRUCTION AND FOR CONFORMANCE TO ALL APPLICABLE OSHA STANDARDS. JOBSITE VISITS BY ENGINEER SHALL NOT CONSTITUTE APPROVAL, AWARENESS OR LIABILITY FOR ANY HAZARDOUS CONDITIONS.

2.9 STRUCTURAL DESIGN GROUP IS NOT RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, SAFETY PROCEDURES, CONSTRUCTION SUPERVISION OR SITE SAFETY, AND DOES NOT HAVE THE AUTHORITY TO STOP WORK FOR THESE ITEMS. DRAWINGS FURTHER DO NOT PROVIDE ENGINEERING CONTROLS FOR SILICA STANDARD OR ANY OTHER SAFETY STANDARD.

2.10 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR BRACING AND SHORING ALL EXCAVATIONS, DEWATERING OF EXCAVATION FROM EITHER SURFACE WATER, GROUND WATER OR SEEPAGE, TEMPORARY AND EXISTING STRUCTURES, AND PARTIALLY COMPLETED PORTIONS OF THE WORK TO ASSURE THE SAFETY OF ANY PERSON COMING IN CONTACT WITH THE WORK.

2.11 THE STRUCTURAL INTEGRITY OF THE BUILDING IS DEPENDENT UPON COMPLETION ACCORDING TO THE PLANS AND SPECIFICATIONS. THE STRUCTURAL ENGINEER OF RECORD ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION. THE METHOD OF CONSTRUCTION AND SEQUENCE OF OPERATIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL SUPPLY ANY NECESSARY BRACING, GUYS, ETC. TO PROPERLY BRACE THE STRUCTURE AGAINST WIND, DEAD AND LIVE LOADS UNTIL THE BUILDING IS COMPLETED ACCORDING TO THE PLANS AND SPECIFICATIONS. ANY QUESTIONS REGARDING TEMPORARY BRACING REQUIREMENTS SHOULD BE FORWARDED TO A STRUCTURAL ENGINEER FOR REVIEW.

2.12 MECHANICAL UNITS AND ANY OTHER EQUIPMENT SUPPORTED BY THE STRUCTURE WITH WEIGHTS IN EXCESS OF 200 LBS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

2.13 WHERE NOTED IN DRAWINGS AND SPECIFICATIONS TO INSTALL PRODUCTS PER THE MANUFACTURER'S RECOMMENDATIONS, IT SHALL BE REQUIRED THAT THE CONTRACTOR FOLLOWS THE MANUFACTURER'S RECOMMENDATIONS.

2.14 STRUCTURAL OBSERVATION IS VISUAL OBSERVATION OF THE IN PLACE STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT THE TIME OF THE OBSERVATION AND SHALL NOT BE CONSTRUED AS INSPECTION OR APPROVAL OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING TESTING AND SPECIAL INSPECTIONS PER THE REQUIREMENTS IN THE PROJECT DOCUMENTS.

2.15 OBSERVATION BY THE STRUCTURAL ENGINEER OF RECORD'S OFFICE DOES NOT REPLACE INSPECTIONS AND TESTING BY THE TESTING AGENCY OR SPECIAL INSPECTOR.

3.0 FOUNDATIONS

3.1 GEOTECHNICAL REPORT: FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT BY CDG TITLED "SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING EVALUATION GADSDEN CITY HALL PROJECT NO. R628124011" ALONG WITH ANY SUPPLEMENTAL CORRESPONDENCE. THE GENERAL CONTRACTOR SHALL OBTAIN A COPY OF THE GEOTECHNICAL REPORT FROM THE OWNER AND FOLLOW ALL REQUIREMENTS AND RECOMMENDATIONS. GEOTECHNICAL RECOMMENDATIONS SHALL TAKE PRECEDENCE OVER THE ITEMS THAT FOLLOW IN THIS SECTION OF THE STRUCTURAL GENERAL NOTES.

3.2 MAXIMUM ALLOWABLE BEARING PRESSURE PER GEOTECHNICAL REPORT: 2500 PSF.

3.3 ALL FOUNDATION BEARING SURFACES SHALL BE REVIEWED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE TO ENSURE THEIR COMPLIANCE WITH PRESSURES NOTED. ALL FOOTING ELEVATIONS ARE ESTIMATED AND MAY BE ADJUSTED IN THE FIELD BY THE GEOTECHNICAL ENGINEER.

3.4 COMPACTED FILL WITHIN THE BUILDING AREA (AND EXTENDING 10'-0" OUTSIDE THE EXTERIOR BUILDING LINE) SHALL MEET THE REQUIREMENTS NOTED IN THE GEOTECHNICAL REPORT.

3.5 BACKFILL FOR FOUNDATION AND RETAINING WALLS SHALL BE A FREE DRAINING GRANULAR MATERIAL, SUCH AS SIZE #57 STONE. BACKFILL SHALL BE COMPACTED SUFFICIENTLY TO PREVENT SUBSIDENCE OF SURFACE ADJACENT TO WALL. THE GRANULAR MATERIAL SHALL BE PLACED IN A 45 DEGREE WEDGE EXTENDING FROM THE BASE OF THE FOOTING TO WITHIN 18" OF FINISH GRADE ON EXTERIOR AND TO UNDERSIDE OF SLAB ON INTERIOR. AT EXTERIOR, CAP GRANULAR BACKFILL WITH 18" OF SOIL.

3.6 FOUNDATION AND RETAINING WALLS SHALL NOT BE BACKFILLED UNTIL CONCRETE HAS ATTAINED THE REQUIRED 28 DAY COMPRESSIVE STRENGTH.

3.7 WHERE CONCRETE WALLS SUPPORT EARTH ON BOTH SIDES, BACKFILL EACH SIDE SIMULTANEOUSLY.

3.8 WHERE SPREAD FOOTINGS ARE AT THE SAME ELEVATION AS CONTINUOUS WALL FOOTINGS, REINFORCING STEEL IN CONTINUOUS WALL FOOTINGS SHALL EXTEND THRU SPREAD FOOTINGS. WHERE SPREAD FOOTINGS ARE BELOW CONTINUOUS WALL FOOTINGS, CONTINUOUS WALL FOOTINGS ARE TO STEP DOWN ONTO SPREAD FOOTINGS.

3.9 SUBGRADE AND GRANULAR FILL SUPPORTING SLABS ON GRADE SHALL BE AS RECOMMENDED BY THE GEOTECHNICAL REPORT AND COMPACTED UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER OR HIS APPROVED REPRESENTATIVE. SEE SPECIFICATIONS FOR VAPOR RETARDER BENEATH SLABS ON GRADE

3.10 GRANULAR FILL BENEATH SLABS, UNLESS NOTED OTHERWISE, SHALL BE 4" COMPACTED #57 STONE.

3.11 VAPOR RETARDER BENEATH SLABS ON GRADE, UNLESS NOTED, SHALL MEET ASTM E 1745, CLASS A, 15 MIL MINIMUM THICKNESS WITH MANUFACTURER'S RECOMMENDED ADHESIVE OR PRESSURE-SENSITIVE TAPE AND PIPE BOOTS, SUCH AS W.R. MEADOWS INC. PRODUCT PERMINATOR 15.

3.12 NO EXCAVATION SHALL BE CLOSER THAN AT A SLOPE OF 2:1 (TWO HORIZONTAL TO ONE VERTICAL) TO A FOOTING.

4.0 CONCRETE

4.1 CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.

4.2 CONCRETE STRENGTH AND DURABILITY REQUIREMENTS: MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS (PSI), TYPE OF CONCRETE, MAXIMUM WATER/CEMENTITIOUS RATIO, AIR CONTENT, SLUMP, AND CONCRETE USE:

STRENGTH	TYPE	MAX W/C	AIR	SLUMP	USE	EXPOSURE CATEGORY
3000	NORMAL WT.	0.57	----	3" TO 5"	FOOTINGS	C1
3500	NORMAL WT.	0.50	----	3" TO 5"	INTERIOR SLAB ON GRADE	F0
3500	NORMAL WT.	0.50	----	3" TO 5"	CONCRETE ON STEEL DECK	F0
4000	NORMAL WT.	0.45	4-6%	3" TO 5"	FOUNDATION RETAINING WALLS	C0
4000	NORMAL WT.	0.45	4-6%	3" TO 5"	UNLESS NOTED	C0

A. CONCRETE MIX DESIGN SHALL BE WORKABLE WITH LOWEST TOTAL WATER PER CUBIC YARD USING LARGEST PRACTICAL MAXIMUM SIZE OF COURSE AGGREGATE.

B. AIR CONTENT FOR CONCRETE FOR SLABS WITH HARD TROWELED FINISHES SHALL NOT EXCEED 3%.

C. CONCRETE PERMANENTLY IN CONTACT WITH WATER SHALL INCLUDE XYPEX ADMIXTURE.

D. CONCRETE USED FOR POLISHED CONCRETE FLOORS SHALL HAVE #78 STONE SIZE MAX COARSE AGGREGATE.

E. EXPOSURE CLASS DESCRIPTIONS:

F0: CONCRETE NOT EXPOSED TO FREEZING AND THAWING CYCLES AND PROTECTED FROM MOISTURE.
F1: CONCRETE EXPOSED TO FREEZING AND THAWING CYCLES AND OCCASIONAL EXPOSURE TO MOISTURE.
F2: CONCRETE EXPOSED TO FREEZING AND THAWING CYCLES AND IN CONTINUOUS CONTACT WITH MOISTURE.
F3: CONCRETE EXPOSED TO FREEZING AND THAWING CYCLES AND IN CONTINUOUS CONTACT WITH MOISTURE AND EXPOSED TO DEICING CHEMICALS.
C0: CONCRETE DRY AND PROTECTED FROM MOISTURE
C1: CONCRETE EXPOSED TO MOISTURE BUT NOT TO DEICING CHEMICALs.
C2: CONCRETE EXPOSED TO MOISTURE AND DEICING CHEMICALS.

4.3 REINFORCING BARS: ASTM A615 GRADE 60.

4.4 WATERSTOPS: FLEXIBLE PVC WATERSTOPS, CE CRD-C 572, UNLESS NOTED OTHERWISE, WITH FACTORY-INSTALLED METAL EYELETS, FOR EMBEDDING IN CONCRETE TO PREVENT PASSAGE OF FLUIDS THROUGH JOINTS. FACTORY FABRICATE CORNERS, INTERSECTIONS, AND DIRECTIONAL CHANGES. ACCEPTABLE MANUFACTURER IS THE GREENSTREAK GROUP, INC, 800-325-9504, OR EQUAL. PROFILE SHALL BE FLAT, DUMBBELL WITH CENTER BULB WITH DIMENSIONS OF 6 INCHES BY 3/8 INCH THICK.

A. FLEXIBLE WATERSTOP INSTALLATION: INSTALL IN CONSTRUCTION JOINTS AND AT OTHER JOINTS INDICATED TO FORM A CONTINUOUS DIAPHRAGM. INSTALL IN LONGEST LENGTHS PRACTICABLE. SUPPORT AND PROTECT EXPOSED WATERSTOPS DURING PROGRESS OF THE WORK.

4.5 WATERSTOPS: SELF-EXPANDING BUTYL STRIP WATERSTOPS, MANUFACTURED RECTANGULAR OR TRAPEZOIDAL STRIP, BUTYL RUBBER WITH SODIUM BENTONITE OR OTHER HYDROPHILIC POLYMERS FOR ADHESIVE BONDING TO CONCRETE, 3/4 BY 1 INCH. ACCEPTABLE PRODUCT IS SWELLSTOP, UNLESS NOTED OTHERWISE, BY THE GREENSTREAK GROUP INC, 800-325-9504, OR EQUAL.

A. SELF-EXPANDING STRIP WATERSTOP INSTALLATION: INSTALL IN CONSTRUCTION JOINTS AND AT OTHER LOCATIONS INDICATED, ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, ADHESIVE BONDING, MECHANICALLY FASTENING, AND FIRMLY PRESSING INTO PLACE. INSTALL IN LONGEST LENGTHS PRACTICABLE.

4.6 REINFORCING STEEL SHOWN IN SECTIONS AND DETAILS ARE A SCHEMATIC INDICATION THAT REINFORCING EXISTS. SEE SCHEDULES, SECTION NOTES AND GENERAL NOTES FOR ACTUAL REINFORCING REQUIRED.

4.7 REINFORCING BAR PLACING ACCESSORIES IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE. WHERE CONCRETE IS EXPOSED IN FINISHED BUILDING, PROVIDE ACCESSORIES WITH RUSTPROOF LEGS. WHERE CONCRETE IS SAND-BLASTED OR BUSH-HAMMERED, PROVIDE ACCESSORIES OF STAINLESS STEEL.

4.8 DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI 315. REINFORCEMENT SHALL NOT BE WELDED, UNLESS NOTED OR APPROVED BY THE ENGINEER.

4.9 ALL SPLICES SHALL BE CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.

4.10 ALL REINFORCING MARKED "CONT." INDICATES REINFORCING SHALL BE "CONTINUOUS" AND SHALL BE SPLICED WITH CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.

4.11 PROVIDE CORNER BARS AT ALL CORNERS OF CONTINUOUS REINFORCING IN FOOTINGS, SLABS, OR WALLS. CORNER BARS SHALL BE LONG ENOUGH TO PROVIDE A CLASS "B" LAP SPLICE OF REINFORCING BARS.

4.12 CONCRETE COVERAGE OF REINFORCEMENT, UNLESS NOTED:

FOOTINGS------------------------------2" TOP & 3" BOTTOM & SIDES
PEDESTALS---------------------------------1-1/2" CLEAR OF TIES
FOUNDATION RETAINING WALLS---------------------2" BOTH FACES
WALLS-------------------2" EXTERIOR FACE, 3/4" INTERIOR FACE
SUMP AND PIT WALLS-----------------------------3" BOTH FACES
SLAB FACES NOT EXPOSED TO WEATHER OR EARTH----------------3/4"
SLAB FACES EXPOSED TO WEATHER
A. #5 AND LESS---------------------------------------1-1/2"
B. #6 AND GREATER--------------------------------------2"

4.13 PEDESTAL, COLUMN AND WALL VERTICAL REINFORCING: DOWEL TO FOUNDATION WITH HOOKED BARS OF SAME SIZE AND SPACING AS VERTICAL REINFORCING.

4.14 BEAM AND SLAB TOP BARS: EXTEND INTO SUPPORT IN ACCORDANCE WITH ACI STANDARD 318 (CODE). WHERE SUCH EXTENSION IS NOT OBTAINABLE, TERMINATE THE BAR IN A STANDARD HOOK.

4.15 WELDED WIRE REINFORCEMENT (WWR): ASTM A1064, MINIMUM LAP AND EMBEDMENT TO BE THE GREATER OF ONE CROSS WIRE SPACING PLUS 2 INCHES OR 6 INCHES.

4.16 EARTH SUPPORTED SLABS:

TYPICAL, UNLESS NOTED: 4" THICK, REINFORCED WITH 6X6 W2.9/W2.9 WWR FLAT SHEETS SUPPORTED 2" CLEAR OF TOP OF SLAB, UNLESS NOTED. WWR TO BE CHAIRED AT 36 INCHES EACH WAY MINIMUM. SEE FOUNDATION NOTES FOR SUBGRADE REQUIREMENTS.

WHERE NOTED AS 5" THICK (SEE PLAN): REINFORCE WITH 4x4 W2.9/W2.9 WWR FLAT SHEETS SUPPORTED 2" CLEAR OF TOP OF SLAB, UNLESS NOTED. WWR TO BE CHARIED AT 36" INCHES EACH WAY MINIMUM. SEE FOUNDATION NOTES FOR SUBGRADE REQUIREMENTS.

PROVIDE CONTROL AND CONSTRUCTION JOINTS AT 3-4 TIMES SLAB THICKNESS IN FEET MAXIMUM OR AS REQUIRED TO PREVENT UNCONTROLLED CRACKING PER ACI RECOMMENDATIONS. AS AN EXAMPLE, FOR A 4" THICK SLAB PROVIDE JOINTS SPACED 12 – 16 FEET MAXIMUM. PANELS TO BE RECTANGULAR WITH LONG SIDE NOT TO EXCEED 1-1/2X SHORT SIDE. CUTTING SHOULD BE STARTED AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT AGGREGATE FROM BEING DISLODGE. CONTRACTOR SUBMIT PLAN SHOWING LOCATION OF CONSTRUCTION AND CONTROL JOINTS.

FLOOR DESIGN AND CONSTRUCTION BASIS IS ACI 302 AND 360, AND IT IS UNREALISTIC TO EXPECT CRACK-FREE OR CURL-FREE FLOORS. IT IS NORMAL TO EXPECT SOME AMOUNT OF CRACKING AND CURLING IN THE SLAB ON GRADE, AND SUCH OCCURRENCE DOES NOT NECESSARILY REFLECT ADVERSELY ON EITHER THE ADEQUENCY OF THE FLOOR DESIGN OR THE QUALITY OF ITS CONSTRUCTION.

EARTH SUPPORTED SLABS SHALL BE MOIST CURED FOR A MINIMUM OF SEVEN DAYS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. CURING COMPOUNDS, UNLESS NOTED, SHALL BE A MINIMUM OF CLEAR, WATERBORNE, MEMBRANE-FORMING CURING COMPOUND MEETING ASTM C 309, TYPE 1, CLASS B, SELF-DISSIPATING, CERTIFIED BY CURING COMPOUND MANUFACTURER TO NOT INTERFERE WITH BONDING OF FLOOR COVERING.

WHERE CONTROL JOINTS TERMINATE INTO NON-PARALLEL CONTROL JOINTS, PROVIDE 2#4 X 6'-0" BARS MID DEPTH OF SLAB PERPENDICULAR TO TERMINAL CONTROL JOINT.

PROVIDE 2#4 X 6'-0" BARS MID DEPTH OF SLAB AT REENTRANT CORNERS.

WHERE CONTROL JOINTS TERMINATE AT EMBEDDED STEEL ELEMENTS (SUCH AS EDGE REINFORCEMENT AT LOADING DOCKS), PROVIDE JOINT IN STEEL ELEMENT.

4.17 PLATE DOWELS AND DOWEL BASKETS:

A. CONSTRUCTION JOINTS:
  1. PLATE DOWELS SHALL CONSIST OF SMOOTH STEEL GALVANIZED PLATE BARS, ASTM A36 STEEL BY ONE OF THE FOLLOWING:
    a. GREENSTREAK GROUP, INC., ST. LOUIS, MO (800) 325-9504 – "SPEED PLATE"
    b. PNA – "DIAMOND DOWEL"

B. CONTRACTION JOINTS:
  1. PLATE DOWEL BASKET ASSEMBLY SHALL CONSIST OF SMOOTH STEEL GALVANIZED PLATE BARS, ASTM A36, AND WIRE SIDE FRAME SUPPORTS BY ONE OF THE FOLLOWING:
    a. GREENSTREAK GROUP, INC., ST. LOUIS, MO (800) 325-9504 – DOUBLE TAPERED BASKET"
    b. PNA – "PD3 BASKET"

C. DOWELED JOINT INSTALLATION: INSTALL DOWEL BARS AND SUPPORT ASSEMBLIES AT JOINTS WHERE INDICATED. LUBRICATE OR ASPHALT COAT ONE-HALF OF DOWEL LENGTH TO PREVENT CONCRETE BONDING TO ONE SIDE OF JOINT. FOLLOW MANUFACTURERS INSTALLATION INSTRUCTIONS FOR PLACEMENT OF PLATE TYPE DOWELS AND DOWEL BASKETS.

4.18 CONTRACTION JOINTS IN WALLS: WALL JOINTS SHALL NOT BE SPACED FARTHER THAN 15 FEET FOR 8" WALLS, 20 FEET FOR 10" WALLS AND 30 FEET FOR 12" WALLS. WALL JOINTS SHALL ADDITIONALLY NOT BE LOCATED WITHIN 4'-0" OF EMBED PLATES OR CORNERS OF THE WALL. DISCONTINUE 50% OF THE WALL HORIZONTAL REINFORCING THROUGH JOINTS, TRIMMING BACK THE REINFORCING BARS 2" FROM THE CONTROL JOINT LOCATION. LOCATE CONTROL JOINTS EACH SIDE OF THE WALL. SEAL JOINTS WITH ELASTOMERIC SEALANT. SEE WALL CONTRACTION JOINT TYPICAL DETAIL.

4.19 WALL AND SLAB OPENINGS AND SLEEVES SMALLER THAN 12" (IN LARGER DIMENSION) ARE NOT SHOWN ON PLANS. CONTRACTOR SHALL SUBMIT ALL OPENINGS (SIZE AND LOCATIONS) AS A SINGLE COORDINATED SLEEVE PLAN FOR REVIEW AND APPROVAL.

4.20 CAST IN PLACE ALL SLEEVES AND INSERTS.

5.0 STRUCTURAL STEEL

5.1 FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH AISC "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS". FABRICATOR SHALL BE QUALIFIED BY PARTICIPATING IN THE AISC QUALITY CERTIFICATION PROGRAM AND HOLD THE AISC BUILDING FABRICATOR QMS CERTIFICATION (BU).

5.2 THE STEEL FRAME IS "NON-SELF-SUPPORTING". ADEQUATE TEMPORARY SUPPORT MUST BE PROVIDED BY THE CONTRACTOR UNTIL REQUIRED CONNECTIONS OR ELEMENTS ARE IN PLACE.

5.3 STRUCTURAL STEEL: ASTM A992 FOR WIDE FLANGE BEAMS AND COLUMNS AND STEEL CHANNELS; A572 FOR S, M, HP SHAPES AND STEEL ANGLES; ASTM A36 FOR STIFFENER PLATES, BASE PLATES, COLUMN CAP PLATES, BEAM CONNECTION PLATES.

5.4 HOLLOW STRUCTURAL SECTIONS (HSS): ASTM A500, GRADE C.

5.5 STRUCTURAL STEEL PIPE: ASTM A53, GRADE B.

5.6 WELDED CONNECTIONS: E70XX ELECTRODES, MINIMUM SIZE FILLET WELD 3/16". WELDING QUALIFICATION, PROCEDURES AND PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS D1.1, THE STRUCTURAL WELDING CODE - STEEL.

5.7 THREADED AND PLAIN STEEL RODS: ASTM A36

5.8 HIGH STRENGTH THREADED RODS: ASTM A193 B7

5.9 STAINLESS STEEL THREADED RODS: ASTM F593 AISI 304 OR 316

5.10 STAINLESS STEEL HIGH STRENGTH THREADED RODS: ASTM A193 B8 CLASS 2

5.11 ANCHOR RODS: ASTM F1554 GRADE 36 ANCHOR AND HEAVY HEX NUT OR ASTM F1554 GRADE 55 ANCHOR AND HEAVY HEX NUT WITH SUPPLEMENTARY REQUIREMENT S1, UNLESS OTHERWISE INDICATED.

5.12 HEADED STUDS: TYPE B SHEAR STUD CONNECTORS MADE FROM ASTM A108, GRADE 1015 OR 1020, COLD-FINISHED CARBON, AND COMPLYING WITH AWS D1.1.

5.13 CONNECTIONS:

A. BEARING TYPE A325-N IN ACCORDANCE WITH RCSC (LRFD OR ASD VERSION) "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". BOLTS THROUGH 4" WIDE BEAM FLANGES SHALL BE 5/8" DIAMETER. OTHERWISE, BOLTS SHALL BE 3/4" DIAMETER.

B. USE SNUG TIGHT BEARING CONNECTIONS FOR ALL BOTLED CONNECTIONS.

C. BOLTS SHOWN IN SECTIONS AND DETAILS ARE A SCHEMATIC INDICATION THAT BOLTS MAY BE USED. ACTUAL NUMBER, UNLESS SPECIFIED, TO BE IN ACCORDANCE WITH AISC.

D. ALL STRUCTURAL STEEL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED TO RESIST FORCES INDICATED, BY THE CONTRACTOR.

  1. WHERE BEAM REACTIONS ARE SHOWN ON THE DRAWINGS, THE CONNECTIONS SHALL DEVELOP THE REACTIONS SHOWN. WHERE CONNECTIONS ARE SUBJECT TO ECCENTRICITY, SUCH ECCENTRICITY SHALL BE TAKEN INTO ACCOUNT WHEN DESIGNING AND DETAILING THE CONNECTION.

  2. WHERE BEAM REACTIONS OR DESIGN FORCES ARE NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL CONTACT STRUCTURAL DESIGN GROUP FOR DIRECTION.

E. DESIGN CALCULATIONS FOR THE CONNECTIONS DESIGNED BY THE CONTRACTOR SHALL BE SUBMITTED FOR THE FILES OF THE ARCHITECT AND ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. SHOP DRAWINGS CONTAINING CONNECTIONS FOR WHICH CALCULATIONS HAVE NOT BEEN RECEIVED WILL BE RETURNED UNCHECKED AS AN INCOMPLETE SUBMITTAL.

F. WHERE MOMENT CONNECTIONS (MC) ARE SHOWN ON THE DRAWINGS, AND NOT SPECIFICALLY DETAILED, THE CONNECTIONS SHALL BE DESIGNED TO SUPPORT A MOMENT EQUAL TO 100% OF THE MAXIMUM LIMITING BUCKLING MOMENT, M_r, AS PUBLISHED IN THE AISC MANUAL OF STEEL CONSTRUCTION FOR A GIVEN SHAPE, SPAN, AND GRADE OF STEEL, UNLESS NOTED OTHERWISE. DESIGN SHALL INCLUDE FLANGE CONNECTION TO COLUMN/BEAM, AND DOUBLERS PLATES AND/OR STIFFENERS WHERE REQUIRED.

5.14 ALL STRUCTURAL STEEL, INCLUDING EXPOSED BOLTS, NUTS, WASHERS OR ANCHOR RODS, EXPOSED TO WEATHER IN THE FINAL CONFIGURATION OF THE STRUCTURE SHALL BE HOT-DIP GALVANIZED, UNLESS NOTED OTHERWISE, PER ASTM A123/A123M. VENT HOLES SHALL BE FILLED AND GROUND SMOOTH AFTER GALVANIZING. DAMAGE TO GALVANIZING SHALL BE PAINTED WITH GALVANIZING REPAIR PAINT, SSPC-PAINT 20. SEE 05120 SPECIFICATION FOR PAINT REQUIREMENTS FOR STEEL THAT IS GALVANIZED AND PAINTED.

5.15 WHERE STEEL BEAMS ARE CONTINUOUS OVER COLUMNS, PROVIDE WEB STIFFENER PLATES EACH SIDE OF BEAM WEB, OF THICKNESS EQUAL TO BEAM FLANGE THICKNESS, LOCATED IN ALIGNMENT WITH COLUMN WEB OR FLANGES OR CENTER LINE OF HSS COLUMNS.

5.16 PROVIDE 3/4" THICK CLOSURE PLATES ON THE ENDS OF HSS BEAMS. SHOP WELD ALL AROUND TO BEAM WITH 1/4" PARTIAL PENETRATION WELDS.

5.17 ALL STEEL EXPOSED TO WEATHER, INCLUDING STEEL LINTELS FOR MASONRY OPENINGS, EXCEPT WHERE FABRICATED OF APPROVED CORROSION-RESISTANT STEEL OR OF STEEL HAVING A CORROSION RESISTANT OR OTHER APPROVED COATING, SHALL BE PROTECTED AGAINST CORROSION WITH AN APPROVED COAT OF PAINT, ENAMEL, OR OTHER APPROVED PROTECTION.

5.18 STEEL STAIRS AND ASSOCIATED EMBEDS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED TO RESIST THE PROJECT DESIGN LOADS INDICATED ABOVE, BY THE CONTRACTOR, UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. STAIRS SHALL BE DESIGNED IN ACCORDANCE WITH THE NAAMM METAL STAIR MANUAL AND AISC, AND AS LISTED BELOW. CALCULATIONS SHALL BEAR THE SEAL OF THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED AND SHALL BE INCLUDED WITH THE STAIR SHOP DRAWINGS. STAIR SHOP DRAWINGS THAT DO NOT CONTAIN DESIGN CALCULATIONS (MEMBERS, CONNECTIONS, ANCHORAGE, ETC.) WILL BE RETURNED UNCHECKED AS AN INCOMPLETE SUBMITTAL.

A. STAIR FRAMING SHALL BE CAPABLE OF WITHSTANDING STRESSES RESULTING FROM RAILING LOADS IN ADDITION TO LOADS SPECIFIED ABOVE.
B. LIMIT DEFLECTION OF TREADS, PLATFORMS, AND FRAMING MEMBERS TO L/360 OR 1/4 INCH, WHICHEVER IS LESS.
C. DESIGN OF STAIR FRAMING SHALL ALSO COMPLY WITH AISC'S "STEEL DESIGN GUIDE SERIES 11; FLOOR VIBRATIONS DUE TO HUMAN ACTIVITY."

5.19 ALL HANDRAILS, GUARDRAILS, AND EMBEDS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE NOTED ABOVE, BY THE CONTRACTOR, UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. CALCULATIONS SHALL BEAR THE SEAL OF THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED AND SHALL BE SUBMITTED FOR THE FILES OF THE ARCHITECT/ENGINEER AND SHALL BE INCLUDED WITH THE SHOP DRAWINGS.

6.0 STEEL JOISTS

6.1 DESIGN, FABRICATE, AND ERECT STEEL JOISTS IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE (SJI).

6.2 PROVIDE A MINIMUM END BEARING ON STEEL SUPPORTS AS REQUIRED BY SJI. STAGGER THE ENDS OF JOIST IF NECESSARY. GENERAL CONTRACTOR COORDINATE METAL DECK SPLICE LOCATION TO CENTER OVER JOIST.

6.3 PROVIDE HORIZONTAL AND DIAGONAL BRIDGING IN ACCORDANCE WITH SJI TO PROVIDE ADEQUATE JOIST CHORD BRACING.

6.4 AT JOIST PARALLEL TO MASONRY WALL, WELD EACH BRIDGING ROW TOP AND BOTTOM TO AN ANGLE 3X3X3/16X0'-6". ANCHOR ANGLE WITH TWO 3/8" DIAMETER SLEEVE ANCHORS WITH TWO-INCH EMBEDMENT INTO WALL.

6.5 AT JOISTS PARALLEL TO BEAMS, ANCHOR BRIDGING ROWS BY WELDING TO BEAMS.

6.6 DESIGN ROOF JOISTS TO RESIST THE WIND UPLIFT LOADING FROM THE COMPONENTS AND CLADDING WIND LOAD TABLE PROVIDED IN THE TYPICAL DETAILS.

6.7 IN ADDITION TO THE LOADS INDICATED IN THE STRUCTURAL DRAWINGS, JOISTS SHALL BE DESIGNED FOR CONCENTRATED LOADS IN EXCESS OF 100 LB HUNG FROM OR SUPPORTED BY JOISTS. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR LOADING INFORMATION AND LOCATIONS. LOADING AS REQUIRED BY OTHER SUBCONTRACTORS, SUCH AS FIRE PROTECTION, SHALL BE COORDINATED BY THE GENERAL CONTRACTOR.

6.8 JOIST SEATS FOR JOIST BEARING ON BEAMS OR WALLS IN LINE WITH LATERAL FRAMES OR SHEAR WALLS SHALL BE DESIGNED FOR A ROLLOVER FORCE EQUAL TO 30% OF THE DEAD LOAD OF THE JOIST REACTION, UNLESS NOTED OTHERWISE. IN NO CASE SHALL THE ROLLOVER FORCE BE LESS THAN 200 PLF PERPENDICULAR TO THE JOIST SEAT.

6.9 JOISTS AND JOIST SEATS SHALL BE DESIGNED FOR AXIAL LOADS WHERE INDICATED IN THE STRUCTURAL DRAWINGS.

6.10 DESIGN CALCULATIONS SHALL BE SUBMITTED FOR THE FILES OF THE ARCHITECT AND STRUCTURAL ENGINEER FOR JOISTS WITH CANTILEVERS OR CONCENTRATED LOADS AND FOR JOIST SIZES FOR WHICH STANDARD SJI LOAD TABLES ARE NOT APPLICABLE. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. SHOP DRAWINGS CONTAINING JOISTS FOR WHICH CALCULATIONS HAVE NOT BEEN RECEIVED WILL BE RETURNED UNCHECKED AS AN INCOMPLETE SUBMITTAL.

6.11 LIGHT GAUGE METAL FRAMING, SUSPENDED CEILINGS, LIGHT FIXTURES, DUCTS, PIPING OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE JOIST BRIDGING.

7.0 STEEL DECK

7.1 DECK PROPERTIES AND ATTACHMENTS SHALL BE IN ACCORDANCE WITH THE STEEL DECK INSTITUTE.

7.2 DECK SHALL BE CONTINUOUS OVER THREE OR MORE SPANS. WHERE DECK SPANS LESS THAN THREE SPANS ARE REQUIRED, THEY SHOULD BE CLEARLY MARKED ON THE SHOP DRAWINGS.

7.3 STEEL ROOF DECK SHALL BE CONNECTED TO SUPPORTING STRUCTURE AS SHOWN IN THE TYPICAL DETAILS.

MANUFACTURER SHALL VERIFY ROOF DECK ATTACHMENT IS ADEQUATE TO RESIST THE WIND UPLIFT LOADING FROM THE COMPONENTS AND CLADDING WIND LOADS TABLE PROVIDED IN THE TYPICAL DETAILS.

7.4 ROOF DECK: WIDE RIB TYPE "WR", STEEL ROOF DECK, 22 GAUGE, GRADE 50, 1-1/2" DEEP, GALVANIZED. SEE TYPICAL DETAILS FOR ROOF DECK ATTACHMENT.

7.5 FORM DECK: 2 ½" THICK CONCRETE SLAB ON NON-COMPOSITE STEEL FORM DECK, 28 GAGE, 9/16" DEEP WITH 6X6 W2.1/W2.1 WWR AT MID DEPTH OF SLAB (3" THICK SLAB TOTAL). DECK SHALL BE CONNECTED TO SUPPORTING STRUCTURE WITH 5/8" DIAMETER PUDDLE WELDS WITH WELD WASHERS FOR DECKS THINNER THAN 22 GAGE OR #12 TEK SCREWS SPACED AT 10" ON CENTER.

7.6 COMPOSITE FLOOR DECK:

A. 3 ½" THICK CONCRETE SLAB ON 2" STEEL COMPOSITE FLOOR DECK (5 ½" TOTAL SLAB THICKNESS), UNLESS NOTED. DECK SHALL CONFORM TO 2" VLI, 20 GAGE, GALVANZIZED, AS MANUFACTURED BY VULCRAFT OR APPROVED EQUAL. REINFORCE SLAB WITH 6X6 W2.1/W2.1 WWR SUPPORTED BY "UPPER CONTINUOUS HIGH CHAIRS" OVER BEAMS AND GIRDERS TO MAINTAIN 1" COVERAGE OF WWR.

B. DECK SHALL BE WELDED TO SUPPORTS WITH A 5/8" DIAMETER PUDDLE WELD OR EQUIVALENT AT ALL EDGE RIBS PLUS A SUFFICIENT NUMBER OF INTERIOR RIBS TO PROVIDE A MAXIMUM AVERAGE SPACING OF 12 INCHES. THE MAXIMUM SPACING BETWEEN ADJACENT POINTS OF ATTACHMENT SHALL NOT EXCEED 18 INCHES.

C. IF STUDS ARE BEING APPLIED THROUGH THE DECK ONTO STRUCTURAL STEEL, THE STUD WELDS CAN BE USED TO REPLACE THE PUDDLE WELDS ON A ONE-FOR-ONE BASIS.

D. DECK UNITS WITH SPANS GREATER THAN FIVE FEET SHALL HAVE SIDE LAPS AND PERIMETER EDGES FASTENED AT MIDSPAN OR 36" O.C. - WHICHEVER IS SMALLER.

E. IF A BENT PLATE OR EDGE ANGLE IS PROVIDED ON TOP OF THE SUPPORTING BEAM, IT IS NOT ACCEPTABLE TO WELD HEADED STUDS TO THE BENT PLATE OR EDGE ANGLE, STUDS MUST BE WELDED DIRECTLY TO THE SUPPORTING BEAM FLANGE.

7.7 SHEAR CONNECTORS: 3/4" DIAMETER, 4" LONG (AFTER WELD), HEADED STUDS ASTM A108, UNLESS NOTED OTHERWISE. SPACE UNIFORMLY ALONG MEMBER WHERE SINGLE VALUE IS GIVEN. SPACE UNIFORMLY ALONG PART OF MEMBER BETWEEN SUPPORTED BEAMS, OR COLUMN AND BEAM, WHERE MORE THAN ONE VALUE IS GIVEN. MAXIMUM CONNECTOR SPACING IS 36" WHEN DECK RIBS ARE ORIENTED PERPENDICULAR TO BEAM AND 44" WHEN DECK RIBS ARE PARALLEL TO BEAM. MINIMUM SPACING OF SHEAR CONNECTORS SHALL BE 3" PERPENDICULAR TO BEAM AND 4-1/2" PARALLEL TO BEAM.

7.8 WELDED CONNECTIONS: E60XX ELECTRODES: WELDING QUALIFICATION, PROCEDURES AND PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS D1.3, THE STRUCTURAL WELDING CODE - SHEET STEEL.

ROOF DECK GALVANIZING DAMAGED BY WELDING AND WELD ITSELF SHALL BE PAINTED WITH A COLD GALVANIZING PAINT.

SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5280
Job Number **24-070**

No. 36803-E
JORDAN DAVID LAW
11-21-24

GADSDEN CITY HALL
100% CONSTRUCTION DRAWINGS
CITY OF GADSDEN
200 Broad St, Gadsden, AL 35901
23-083

KEY PLAN :

ARCHITECT OF RECORD :
WILLIAMS
BLACKSTOCK
ARCHITECTS
2204 FIRST AVENUE SOUTH, SUITE 200
BIRMINGHAM, ALABAMA 35233

ISSUE DATE:
11-25-2024

REVISIONS:

NO.	DATE	DESCRIPTION

PROJECT NUMBER:
23-083

DRAWING TITLE:
GENERAL NOTES

SHEET NUMBER:
S-100

GENERAL NOTES

7.9 NO CONDUIT OR PIPE SHALL BE CAST IN THE SLAB WITHOUT THE WRITTEN APPROVAL OF STRUCTURAL DESIGN GROUP.

7.10 LIGHT GAUGE METAL FRAMING, SUSPENDED CEILINGS, LIGHT FIXTURES AND DUCTS OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE METAL ROOF DECK.

7.11 NAILABLE SUBSTRATE SHALL BE FASTENED TO STEEL ROOF DECK WITH #8 ROUND HEAD, ZINC PLATED SELF-TAPPING SCREWS AT 12" O.C. EACH WAY. AT CORNER ZONES, ATTACH SCREWS AT 6" O.C. – SEE TYPICAL DETAILS FOR CORNER ZONES.

8.0 MASONRY

8.1 MASONRY CONSTRUCTION SHALL CONFORM TO TMS 402-16 AND TMS 602-16 REQUIREMENTS.

8.2 ALL MASONRY MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE RECOMMENDATIONS OF BRICK INSTITUTE OF AMERICA (BIA) AND NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA) AND MINIMUM REQUIREMENTS ESTABLISHED BY THE LOCAL BUILDING CODE.

8.3 MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNIT (f'm) SHALL BE 2000 PSI AT 28 DAYS.

8.4 NET COMPRESSIVE STRENGTH FOR EACH CMU UNIT SHALL MEET OR EXCEED 2000 PSI AT 28 DAYS. FOR TYPE N MORTAR, NET COMPRESSIVE STRENGTH FOR BLOCK SHALL BE GREATER THAN 2650 PSI.

8.5 GROUT COMPRESSIVE STRENGTH SHALL BE 2500 PSI AT 28 DAYS. GROUT SHALL ADDITIONALLY COMPLY WITH TABLE 6 OF TMS 602 FOR DIMENSIONS OF GROUT SPACES AND POUR HEIGHTS. COURSE GROUT SHALL BE USED WHERE POSSIBLE.

8.6 ALL MASONRY SHALL BE LIGHT WEIGHT IN ACCORDANCE WITH ASTM C90.

8.7 MORTAR: EXCEPT OTHERWISE SET FORTH HEREIN ALL MORTARS AND THE MATERIALS THEREIN SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR MORTAR OF MASONRY UNITS, ASTM C270.

A. THE TYPE OF MORTAR BASED ON CONSIDERATION OF THE LOCATION OF THE UNIT MASONRY CONSTRUCTION SHALL BE AS FOLLOWS:

USE OF LOCATION	TYPE OF MORTAR
BELOW GRADE FOUNDATION AND WALLS	M
RETAINING WALLS	M
FIRE RESISTIVE WALLS RATED 2 HOURS OR MORE	M OR S
EXTERIOR WALLS AND LOAD BEARING WALLS	M OR S
PARTITIONS	M, S OR N
SOLID MASONRY UNITS	ONE CLASSIFICATION LESS THAN THE ABOVE
MORTAR OR GROUT UNDER CONCENTRATED LOADS	M
FENCES OR SITE WALLS	M OR S

8.8 ALL MASONRY SHALL BE RUNNING BOND, UNLESS NOTED.

8.9 ALL BLOCK CELLS AND CAVITIES BELOW GRADE SHALL BE FILLED WITH CONCRETE OR GROUT.

8.10 MASONRY REINFORCING LAP SPLICE LENGTHS PER SCHEDULE. SEE MASONRY LAP SPLICE LENGTHS TYPICAL DETAIL.

8.11 THE CONTRACTOR SHALL PROVIDE DETAILED SHOP DRAWINGS OF THE CMU REINFORCEMENT.

8.12 MODIFY CMU BLOCKS AS REQUIRED TO INSTALL REINFORCING AS NOTED/SHOWN.

8.13 WHERE MASONRY WALLS SUPPORT EARTH ON BOTH SIDES, BACKFILL EACH SIDE SIMULTANEOUSLY.

8.14 WHERE TOP OF FOOTING SUPPORTING MASONRY WALLS IS MORE THAN 2'-8" BELOW FINISH FLOOR, PROVIDE #6@16, UP TO THE FINISH FLOOR ELEVATION, IN ADDITION TO SPECIFIED REINFORCEMENT.

8.15 THE MASONRY WALLS ARE "NON-SELF-SUPPORTING". ADEQUATE TEMPORARY SUPPORT MUST BE PROVIDED BY THE CONTRACTOR UNTIL REQUIRED CONNECTIONS OR ELEMENTS ARE IN PLACE. BRACING SHALL BE PER THE FOLLOWING, AND CONTRACTOR SHALL PROVIDE ADDED REINFORCING AND GROUT IF REQUIRED BY THE BRACING.

A. THE "2012 STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION".
B. THE "MASONRY WALL BRACING HANDBOOK" AS PUBLISHED BY THE MASONRY CONTRACTORS ASSOCIATION OF AMERICA (MCAA) SHOULD BE USED IN CONJUNCTION WITH THE "STANDARD PRACTICE".

9.0 COLD-FORMED STEEL FRAMING (NON-LOAD BEARING)

9.1 STRUCTURAL PROPERTIES OF COLD-FORMED STEEL FRAMING SHALL BE COMPUTED IN ACCORDANCE WITH AISI "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING" AND OTHER APPLICABLE AISI STANDARDS, LATEST EDITIONS.

9.2 UNLESS SPECIFICALLY DESIGNED AND DETAILED IN DRAWINGS, GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL COLD-FORMED STEEL FRAMING. SEE ARCHITECTURAL DETAILS FOR FRAMING LAYOUT AND SECTIONS. COLD-FORMED STEEL FRAMING SHOP DRAWINGS AND DESIGN CALCULATIONS SHALL BE SUBMITTED FOR FILES OF THE STRUCTURAL ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

9.3 GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL COLD-FORMED STEEL FRAMING. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR FRAMING LAYOUT, SIZES, SPACING, AND SECTIONS. THE GAGE OF THE STUDS, IF SHOWN, SHALL NOT BE REVISED UNLESS IT IS REQUIRED TO BE INCREASED AS DIRECTED BY THE COLD-FORMED STEEL DESIGN ENGINEER. COLD-FORMED STEEL FRAMING SHOP DRAWINGS AND DESIGN CALCULATIONS SHALL BE SUBMITTED FOR FILES OF THE STRUCTURAL ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. THE CONTRACTOR SHALL INCLUDE THE COST OF SHOP DRAWINGS AND CALCULATIONS, INCLUDING ENGINEERING FEES, IN THE BASE BID OF THE CONTRACT.

9.4 DEFLECTION LIMITS FOR MEMBERS:

A.	SOFFITS:	DL L/240	LL L/240	TL L/180
B.	WALL SUPPORTING BRICK:	HORIZONTAL DEFLECTION OF L/600		
C.	WALL SUPPORTING STUCCO:	HORIZONTAL DEFLECTION OF L/360		
D.	WALL SUPPORTING EIFS:	HORIZONTAL DEFLECTION OF L/240		
E.	WALL PARTITIONS:	HORIZONTAL DEFLECTION OF L/180		

9.5 COLD-FORMED STEEL FRAMING MEMBERS SHALL NOT BE SUPPORTED BY THE STEEL ROOF DECK.

9.6 COLD-FORMED STEEL FRAMING MEMBERS ABUTTING STRUCTURE SHALL HAVE VERTICAL SLIP TRACKS TO ACCOMMODATE UP TO 1-1/2" VERTICAL MOVEMENT UP OR DOWN.

9.7 VERTICAL STUDS INTERRUPTED BY WALL OPENINGS SHALL BE LOCATED EQUALLY ON EACH SIDE OF THE OPENING. PROVIDE EVEN NUMBER OF FULL HEIGHT STUDS ON EACH SIDE OF OPENING. WELD STUD FLANGES TOGETHER WITH 1/8" FILLET WELD 1" LONG SPACED AT 6" O.C.

9.8 WELDED CONNECTIONS: E60XX ELECTRODES, MINIMUM SIZE FILLET WELD 1/8". WELDING QUALIFICATION, PROCEDURES AND PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS D1.3, THE STRUCTURAL WELDING CODE - SHEET STEEL.

9.9 PROVIDE SHOP DRAWINGS SHOWING PLANS, ELEVATIONS AND CONNECTION DETAILS FOR ALL NON-LOAD BEARING COLD-FORMED STEEL FRAMING.

9.10 ALL CONNECTIONS OF THE COLD-FORMED STEEL FRAMING MEMBERS TO THE STRUCTURE SHALL BE FULLY DETAILED ON THE COLD-FORMED STEEL FRAMING SHOP DRAWINGS. ANY SPECIAL LOADING IMPOSED ON THE STRUCTURE SHALL BE CLEARLY INDICATED ON THE SHOP DRAWINGS.

10.0 POST-INSTALLED REINFORCING, ANCHORS AND FASTENERS

10.1 POST-INSTALLED ANCHORS AND/OR REINFORCING SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS AND/OR REINFORCING IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS AND/OR REINFORCING.

10.2 THE BELOW PRODUCTS ARE THE DESIGN BASIS FOR THIS PROJECT. PRODUCT DIAMETER AND EMBEDMENT SHALL BE SHOWN IN THE DETAILS.

10.3 FOR ANCHORING INTO CONCRETE:

A. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. PRE-APPROVED PRODUCTS INCLUDE:

1. SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713 & IAPMO-UES ER-493)
2. SIMPSON STRONG-TIE "STRONG-BOLT 2" (ICC-ES ESR-3037)
3. SIMPSON STRONG-TIE "TITEN-HD ROD HANGER" (ICC-ES ESR-2713)
4. SIMPSON STRONG-TIE "TITEN TURBO" (IAPMO-UES ER-712) - FOR UNCRACKED CONCRETE ONLY
5. HILTI KWIK HUS-EZ (KH-EZ), KH-EZ CRC, KH-EZ SS316, KH-EZ C, KH-EZ E, KH-EZ-I, AND KH-EZ P SCREW ANCHOR SAFE SET SYSTEM WITH HOLLOW DRILL BIT AND VACUUM (ICC ESR-3027)
6. HILTI KWIK BOLT-TZ2 EXPANSION ANCHOR SAFE SET SYSTEM WITH HOLLOW DRILL BIT AND VACUUM AND SI-AT-A22 TOOL WITH ADAPTIVE TORQUE FOR APPLICABLE SIZES (ICC ESR-4266)
7. HILTI KWIK BOLT 1 EXPANSION ANCHOR SAFE SET SYSTEM WITH HOLLOW DRILL BIT AND VACUUM AND SI-AT-A22 TOOL WITH ADAPTIVE TORQUE FOR APPLICABLE SIZES (ICC ESR-678)
8. HILTI HDA UNDERCUT ANCHORS (ICC ESR 1546)
9. HILTI HSL-4 EXPANSION ANCHORS (ICC ESR 4386)
10. DEWALT SCREW-BOLT+ (ICC-ES ESR-3889)
11. DEWALT POWER-STUD+ SD2 (ICC-ES ESR-2502)
12. DEWALT POWER-STUD SD1 (ICC-ES ESR-2818)
13. DEWALT HANGERMATE+ (ICC-ES ESR-3889)
14. DEWALT CCU+ UNDERCUT (ICC-ES ESR-4810)
15. DEWALT POWER-BOLT+ (ICC-ES ESR-3260)

B. ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. DESIGN ADHESIVE BOND STRENGTH HAS BEEN BASED ON ACI 355.4 TEMPERATURE CATEGORY B WITH INSTALLATIONS INTO DRY HOLES DRILLED USING A CARBIDE DRILL BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS, SUCH AS HORIZONTAL TO UPWARD INCLINED ORIENTATION UNDER SUSTAINED TENSION LOADING, SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318-19 26.7.2 & 26.7.2(e)). INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318-19 26.7.2 & 26.7.2(e). PRE-APPROVED PRODUCTS INCLUDE:

1. SIMPSON STRONG-TIE "SET-3G" (ICC-ES ESR-4057)
2. SIMPSON STRONG-TIE "AT-3G" (ICC-ES ESR 5026)
3. HILTI HIT-HY 200 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM WITH CONTINUOUSLY DEFORMED REBAR (ICC ESR-4868)
4. HILTI HIT-RE 500 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM WITH CONTINUOUSLY DEFORMED REBAR (ICC ESR-3814)
5. HILTI KWIK-X DUAL ACTION ANCHOR SAFESET SYSTEM WITH KHC CAPSULE ADHESIVE AND KWIK-HUS EZ (ICC ESR-5065)
6. DEWALT PURE110+ FOR WARM WEATHER/SLOW CURE (ICC-ES ESR-3298); FOR ANCHORS AND REBAR: WHEN DEWALT DUSTX+ EXTRACTION SYSTEM IS USED, TRADITIONAL HOLE CLEANING METHODS USING STEEL BRUSHES AND COMPRESSED DRY AIR MAY BE COMPLETELY OMITTED PER ICC-ES ESR-3298
7. DEWALT AC200+ FOR COLD WEATHER/RAPID CURE (ICC-ES ESR-4027); FOR ANCHORS AND REBAR: WHEN DEWALT DUSTX+ EXTRACTION SYSTEM IS USED, TRADITIONAL HOLE CLEANING METHODS USING STEEL BRUSHES AND COMPRESSED DRY AIR MAY BE COMPLETELY OMITTED PER ICC-ES ESR-4027

C. POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:

1. SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811)
2. SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138)
3. HILTI "UNIVERSAL KNURLED SHANK FASTENERS" X-U (ICC ESR-2269)
4. DEWALT "POWER DRIVEN FASTENERS", POWDER ACTUATED (ICC-ES-ESR 2024)
5. DEWALT "TRAK-IT C5", GAS ACTUATED (ICC-ES-ESR 3275)

10.4 FOR FASTENING INTO STEEL: POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:

A. SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811)
B. SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138)
C. HILTI FASTENERS IN LIEU OF #12 TEK SCREWS:

1. HILTI S-MD 12-24X1-5/8 HWH5 SCREWS FOR STUDS, JOISTS AND BEAMS 16 GA ≤ TF ≤ 1/4"
2. HILTI X-HSN 24 PINS FOR JOISTS AND BEAM 1/8" ≤ TF ≤ 3/8"
3. HILTI X-ENP 19 L15 PINS FOR BEAMS TF ≥ 1/4".

D. DEWALT "POWER DRIVEN FASTENERS", POWDER ACTUATED (ICC-ES-ESR 2024)
E. DEWALT "TRAK-IT C5", GAS ACTUATED (ICC-ES-ESR 3275)

10.5 REFER TO THE PROJECT BUILDING CODE AND/OR EVALUATION REPORT FOR SPECIAL INSPECTIONS AND PROOF LOAD REQUIREMENTS.

10.6 SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE LISTED MAY BE SUBMITTED BY THE CONTRACTOR TO THE EOR FOR REVIEW NO LESS THAN TWO WEEKS PRIOR TO BID. SUBSTITUTIONS WILL ONLY BE CONSIDERED FOR PRODUCTS HAVING A RESEARCH REPORT RECOGNIZING THE PRODUCT FOR THE APPROPRIATE APPLICATION UNDER THE PROJECT BUILDING CODE. SUBSTITUTION REQUESTS SHALL INCLUDE CALCULATIONS PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATE THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE EQUIVALENT. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE, AND INSTALLATION TEMPERATURE.

10.7 INSTALL ANCHORS PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII), OR AS INCLUDED IN THE ANCHOR PACKAGING.

10.8 THERE IS TO BE NO GAP BETWEEN CONNECTED PARTS, UNLESS SHIMS ARE PROVIDED. ANCHORS ARE TO SECURE CONNECTED PARTS TOGETHER SNUGLY AND SECURELY.

10.9 OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING THE MANUFACTURER'S INSTRUCTIONS AND INSTALLER MUST BE ACI CERTIFIED.

10.10 THE CONTRACTOR SHALL ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

10.11 THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S SPECIAL INSPECTION AGENCY FOR CONTINUOUS SPECIAL INSPECTION OF ADHESIVE ANCHORS AND PERIODIC INSPECTION OF MECHANICAL ANCHORS, SEE SPECIAL INSPECTION SCHEDULE FOR ADDITIONAL INFORMATION.

10.12 ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

10.13 EXISTING REINFORCING BARS AND/OR CONDUIT IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS AND/OR REINFORCING TO AVOID CONFLICTS WITH EXISTING REBAR AND/OR CONDUIT. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS BY GPR, X-RAY, HILTI PS 1000 X-SCAN, CHIPPING, OR OTHER MEANS.

11.0 ELEVATOR

11.1 CONTRACTOR COORDINATE ELEVATOR SHAFT WIDTH, SHAFT LENGTH, PIT DEPTH, AND ALL OTHER REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND ELEVATOR MANUFACTURER PRIOR TO CONSTRUCTION.

11.2 PROVIDE W8x24 ELEVATOR HOIST BEAM. TOP OF BEAM 2" CLEAR FROM ROOF FRAMING. POSITION AS REQUIRED BY ELEVATOR MANUFACTURER. COORDINATE ELEVATION WITH ELEVATOR REQUIREMENTS.

11.3 BEAMS AT ELEVATOR SHAFT HAVE BEEN DESIGNED FOR A TEMPORARY CONCENTRATED LOAD OF 5 KIPS TO SERVE AS HOIST BEAMS FOR ELEVATOR INSTALLATION. CONTRACTOR VERIFY LOAD WITH ELEVATOR MANUFACTURER.

11.4 ANY ADDITIONAL STEEL REQUIRED FOR ELEVATOR INSTALLATION (SAFETY BEAMS, CLIPS, EMBEDS, ETC.) SHALL BE PROVIDED BY THE ELEVATOR MANUFACTURER AND INCLUDED IN THEIR ORIGINAL PRICE TO THE CONTRACTOR. CONTRACTOR COORDINATE INSTALLATION WITH ELEVATOR MANUFACTURER.

11.5 COORDINATE HOIST BEAM ELEVATION WITH ELEVATOR MANUFACTURER.

12.0 INSPECTIONS

12.1 OWNER SHALL RETAIN THE SERVICES OF INDEPENDENT AGENCIES TO PERFORM THE CONSTRUCTION MATERIAL TESTING AND CODE REQUIRED SPECIAL INSPECTIONS, AS CONSTRUCTION PROGRESSES, FORWARD COPIES OF INSPECTION REPORTS TO STRUCTURAL ENGINEER FOR REVIEW. SDG CANNOT ISSUE A CERTIFICATE OF SATISFACTORY COMPLETION WITHOUT REVIEWING THESE REPORTS AND FINAL CERTIFICATES ISSUED BY EACH OF THE INDEPENDENT AGENCIES.

12.2 STRUCTURAL OBSERVATION BY SDG IS VISUAL OBSERVATION OF THE IN PLACE STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED STRUCTURAL PORTIONS OF THE CONSTRUCTION DOCUMENTS AT THE TIME OF THE OBSERVATION AND SHALL NOT BE CONSTRUED AS INSPECTION OR APPROVAL OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING TESTING AND SPECIAL INSPECTIONS PER THE REQUIREMENTS IN THE PROJECT MANUAL AND CONSTRUCTION DOCUMENTS.

12.3 OBSERVATION BY THE ENGINEER OF RECORD'S OFFICE DOES NOT REPLACE INSPECTIONS AND TESTING BY THE TESTING AGENCY OR SPECIAL INSPECTOR.

13.0 SHOP DRAWINGS (SUBMITTALS)

13.1 THE GENERAL CONTRACTOR SHALL SUBMIT FOR REVIEW AN ELECTRONIC SET OF DESIGN CALCULATIONS FOR ITEMS LISTED BELOW; CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED:

A. STRUCTURAL STEEL BEAM CONNECTION DESIGN

13.2 SUBMIT ALL SHOP DRAWINGS ELECTRONICALLY. ELECTRONIC COPIES WILL BE RETURNED TO THE ARCHITECT. REPRODUCTIONS REQUIRED BY THE CONTRACTOR ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHOULD BE MADE AFTER THE ELECTRONIC COPIES ARE RETURNED.

13.3 ALL SHOP DRAWINGS SHALL BE ACCOMPANIED BY A PROPERLY COMPLETED SUBMITTAL CHECKLIST, WHERE REQUIRED BY THE RELEVANT SPECIFICATION SECTION.

13.4 WHERE SHOP DRAWINGS, CALCULATIONS, OR SUBMITTALS ARE CALLED FOR IN THE PROJECT DOCUMENTS (DRAWINGS AND SPECIFICATIONS) AND ARE NOT PROVIDED BY THE CONTRACTOR, THE CONTRACTOR ASSUMES TOTAL RESPONSIBILITY FOR THE DESIGN AND ASSOCIATED WORK.

13.5 ENGINEER'S SHOP DRAWING REVIEW IS LIMITED TO REVIEW FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT REFLECTED IN THE STRUCTURAL PORTION OF THE CONTRACT DOCUMENTS. THIS REVIEW DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE DRAWINGS, SPECIFICATIONS OR OTHER PROJECT CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED OR IMPLIED FOR THE CORRECTNESS OF DIMENSIONS OR DETAILS. THIS REVIEW DOES NOT AUTHORIZE CHANGES TO THE CONTRACT SUM UNLESS STATED IN A SEPARATE WRITTEN FORM OR CHANGE ORDER. CONTRACTOR SHALL CONFIRM AND CORRELATE ALL QUANTITIES AND DIMENSIONS, SELECT FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATE HIS WORK WITH THAT OF OTHER TRADES, AND PERFORM HIS WORK IN A SAFE AND SATISFACTORY MANNER. CONTRACTOR SHALL ALSO REFER TO THE REQUIREMENTS OF THE GENERAL AND SUPPLEMENTARY GENERAL CONDITIONS.

13.6 ALL SUBMITTALS: IF THERE ARE QUESTIONS, CLARIFICATIONS, MODIFICATIONS, OR ITEMS WHERE INFORMATION, A RESPONSE, OR APPROVAL IS REQUESTED, SUCH ITEMS SHALL BE WRITTEN ON THE TRANSMITTAL OR COVER SHEET. WHERE SUBMITTAL CHECKLISTS ARE REQUIRED BY THE RELEVANT SPECIFICATION, THE AFOREMENTIONED INFORMATION MUST BE INDICATED ON THE SUBMITTAL CHECKLIST IN ACCORDANCE WITH THE RELEVANT SPECIFICATION. INDICATING SUCH ITEMS ON THE SHOP DRAWINGS, WITHIN ANY CALCULATIONS, OR PRODUCT DATA IS NOT SUFFICIENT. WHERE SUCH ITEMS ARE NOT SPECIFICALLY LISTED ON THE TRANSMITTAL, COVER SHEET, OR CHECKLIST IN ACCORDANCE WITH THESE GENERAL NOTES AND THE SPECIFICATIONS, SUCH ITEMS ARE NOT TO BE CONSIDERED APPROVED OR CONSIDERED. IF A QUESTION, CLARIFICATION, MODIFICATION, OR REQUEST FOR INFORMATION IS MADE AND NOT SPECIFICALLY RESPONDED TO BY STRUCTURAL DESIGN GROUP, NO APPROVAL OR CONSENT SHALL BE ASSUMED. THE CONTRACTOR SHALL ASSUME TOTAL LIABILITY AND RESPONSIBILITY IN ALL CASES WHERE SPECIFIC WRITTEN RESPONSE FROM STRUCTURAL DESIGN GROUP IS NOT OBTAINED, REGARDLESS OF ANY OTHER ACTIONS TAKEN BY STRUCTURAL DESIGN GROUP.

13.7 SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS MUST BE SUBMITTED BY THE GENERAL CONTACTOR AND REVIEWED BY THE S.E.R. SHOULD THE OWNER OR CONTRACTOR FAIL TO OBTAIN THE S.E.R'S REVIEW OF THE SHOP DRAWINGS, THE S.E.R. WILL NOT ACCEPT RESPONSIBILITY FOR THE DESIGN AND CERTIFICATION OF THIS PROJECT. PRIOR TO SUBMISSION, THE CONTRACTOR SHALL REVIEW SHOP DRAWINGS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. SHOP DRAWINGS SHALL NOT BE PRODUCED PRIOR TO FINAL CONSTRUCTION SET.

13.8 DO NOT FABRICATE PRIOR TO SHOP DRAWING'S REVIEW.

SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5260
Job Number 24-070

ALABAMA LICENSED No. 26803-E PROFESSIONAL ENGINEER JORDAN DAVID SMITH
11-21-24

GADSDEN CITY HALL
100% CONSTRUCTION DRAWINGS
CITY OF GADSDEN
200 Broad St, Gadsden, AL 35901
23-083

KEY PLAN:

ARCHITECT OF RECORD:
WILLIAMS BLACKSTOCK ARCHITECTS
2204 FIRST AVENUE SOUTH, SUITE 200
BIRMINGHAM, ALABAMA 35233

ISSUE DATE:
11-25-2024

REVISIONS:

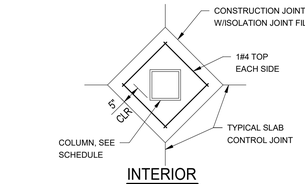
NO.	DATE	DESCRIPTION

PROJECT NUMBER:
23-083

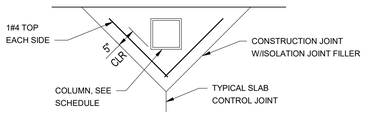
DRAWING TITLE:
GENERAL NOTES

SHEET NUMBER:
S-101

SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5260
Job Number **24-070**



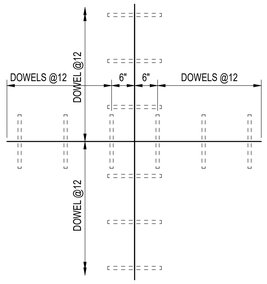
INTERIOR



EXTERIOR

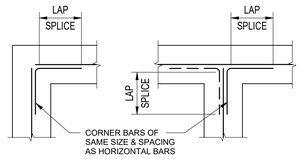
ISOLATION JOINT DETAIL

TYPICAL

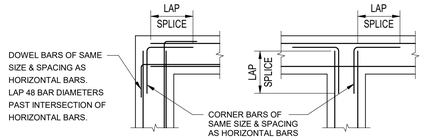


PLAN AT SLAB CONTROL JOINT

TYPICAL



SINGLE LAYER REINFORCEMENT

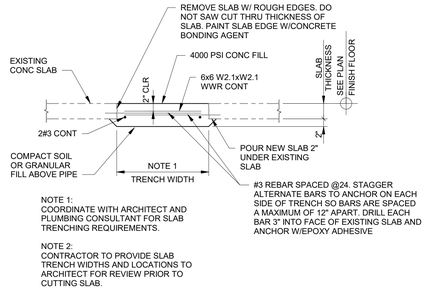


DOUBLE LAYER REINFORCEMENT

NOTE: ALL LAP SPLICES CLASS "B" TENSION

WALL CORNER REINFORCING DETAIL

TYPICAL



NOTE 1:
COORDINATE WITH ARCHITECT AND PLUMBING CONSULTANT FOR SLAB TRENCHING REQUIREMENTS.

NOTE 2:
CONTRACTOR TO PROVIDE SLAB TRENCH WIDTHS AND LOCATIONS TO ARCHITECT FOR REVIEW PRIOR TO CUTTING SLAB.

SLAB TRENCHING DETAIL

TYPICAL

REINFORCING LAP LENGTH SCHEDULE

TENSION LAP SPLICE LENGTHS, (BAR DIAMETERS, db) FOR GRADE 60 (4)
UNCOATED BARS: NORMAL-WEIGHT CONCRETE (5)

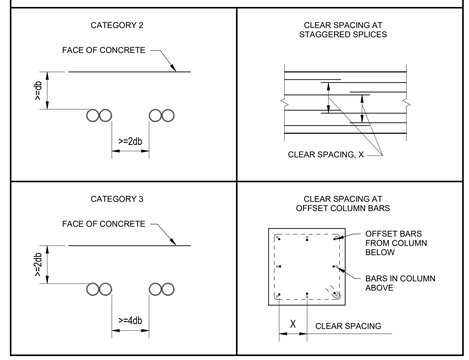
f'c (psi)	BAR SIZE	LAP CLASS	LAP LENGTH PER SPACING AND COVER CASE (3)					
			TOP BARS (6) CATEGORY (2)			OTHER BARS CATEGORY (2)		
			1	2	3	1	2	3
3000	#3-#6	A	86db	58db	36db	66db	44db	28db
		B	112db	74db	46db	86db	58db	36db
	#7-#11	A	107db	72db	43db	83db	55db	33db
		B	139db	93db	56db	107db	72db	43db
4000	#3-#6	A	74db	50db	30db	58db	38db	24db
		B	98db	66db	40db	74db	50db	31db
	#7-#11	A	93db	62db	37db	72db	48db	29db
		B	121db	81db	49db	93db	62db	37db
5000	#3-#6	A	68db	46db	32db	52db	34db	21db
		B	86db	58db	42db	68db	46db	27db
	#7-#11	A	83db	56db	34db	64db	43db	26db
		B	108db	72db	43db	83db	56db	34db
6000	#3-#6	A	62db	42db	26db	48db	32db	19db
		B	80db	54db	32db	62db	42db	26db
	#7-#11	A	76db	51db	31db	59db	39db	24db
		B	99db	66db	40db	76db	51db	31db
7000	#3-#6	A	56db	38db	23db	44db	30db	18db
		B	74db	50db	30db	56db	38db	23db
	#7-#11	A	70db	47db	28db	54db	36db	22db
		B	91db	61db	37db	70db	47db	28db
>=8000	#3-#6	A	57db	36db	22db	42db	28db	18db
		B	68db	46db	28db	54db	36db	22db
	#7-#11	A	66db	44db	27db	51db	34db	21db
		B	85db	57db	34db	66db	44db	27db

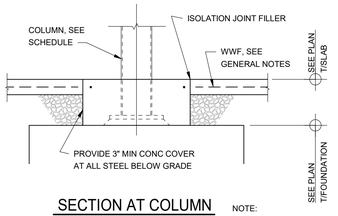
LAP NOTES:
1. LAP SPLICE LENGTHS ARE BASED ON ACI318-19 SECTION 25.4 AND SUBSECTIONS 25.4.2.3 AND 25.4.2.4.
2. CATEGORY DEFINITIONS: (SEE FIGURES BELOW FOR ADDITIONAL INFORMATION)

   CATEGORY 1 - CODE 25.4.2.3 OTHER CASES - DOES NOT MEET CATEGORY 2 OR 3.

   CATEGORY 2 - CODE 25.4.2.4 - CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2db AND CLEAR COVER NOT LESS THAN db.

   CATEGORY 3 - CODE 25.4.2.4 - CLEAR COVER NOT LESS THAN 2db AND CLEAR SPACING NOT LESS THAN 4db.
3. MINIMUM LAP SPLICE SHALL NOT BE LESS THAN 12 INCHES.
4. MULTIPLY ABOVE LAP LENGTHS BY 1.25 FOR GRADE 75 REINFORCING STEEL.
5. MULTIPLY ABOVE LAP LENGTHS BY 1.3 FOR LIGHTWEIGHT CONCRETE.
6. TOP BARS ARE DEFINED AS HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12 - INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE DEVELOPMENT LENGTH OR SPLICE.
7. COMPRESSION LAP FOR GRADE 60 UNCOATED BARS IN NORMAL WEIGHT CONCRETE WITH A MINIMUM STRENGTH OF 3,000 PSI SHALL BE 30db. USE 44db FOR GRADE 75 COMPRESSION LAP.



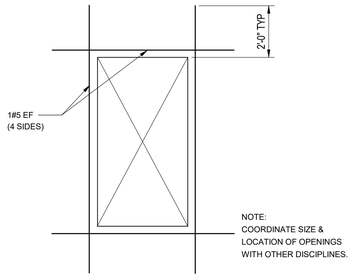


SECTION AT COLUMN

NOTE:
CHOICE OF ISOLATION JOINT DETAIL IS CONTRACTORS OPTION.

COLUMN/SLAB-JOINT DETAIL

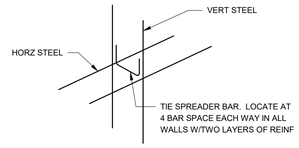
TYPICAL



NOTE:
COORDINATE SIZE & LOCATION OF OPENINGS WITH OTHER DISCIPLINES.

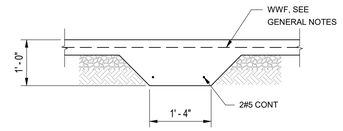
WALL OPENING REINFORCMENT DETAIL

TYPICAL



WALL STEEL TIE-SPREADER DETAIL

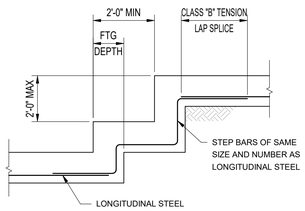
TYPICAL



THICKENED SLAB ON GRADE DETAIL

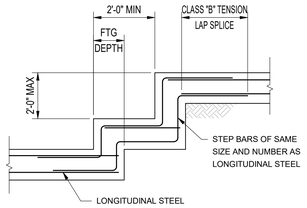
TYPICAL

FOR THICKENED SLABS LARGER THAN 2'-0"x2'-0", PROVIDE #5@12 EW IN BOTTOM OF FOOTING



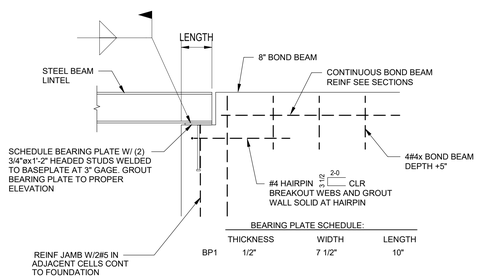
FOOTING STEP DETAIL

TYPICAL



FOOTING STEP DETAIL

TYPICAL



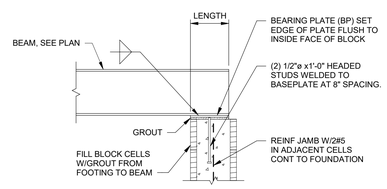
BEARING PLATE SCHEDULE:

	THICKNESS	WIDTH	LENGTH
BP1	1/2"	7 1/2"	10"

BEAM BEARING DETAIL IN LINE WITH CMU WALL

TYPICAL

NOTE: SEE PLAN FOR BEARING PLATE LOCATIONS.

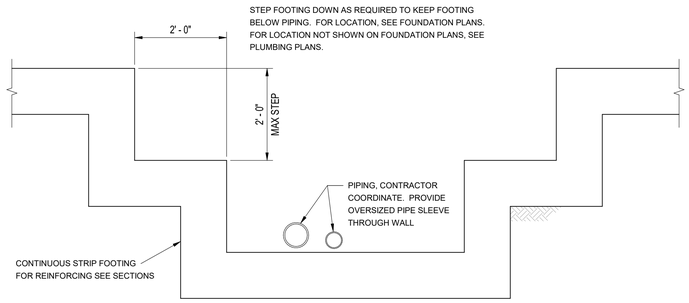


BEARING PLATE SCHEDULE:

	THICKNESS	WIDTH	LENGTH
BP2	5/8"	10"	7 1/2"
BP3	7/8"	10"	7 1/2"

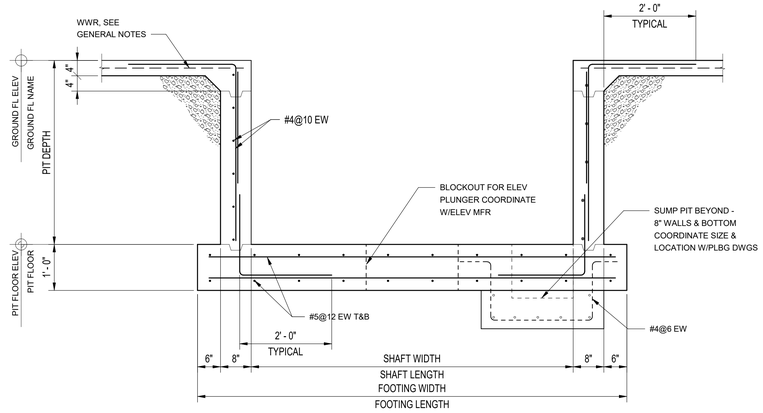
BEAM BEARING DETAIL

TYPICAL



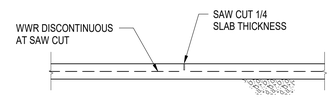
FOOTING/FOUNDATION WALL AT PIPING

TYPICAL



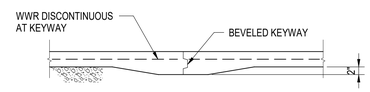
ELEVATOR SECTION

TYPICAL



SAW JOINT WITHIN 8 HOURS
AFTER CONCRETE IS PLACED.

SAWED JOINT



KEYED JOINT

SLAB CONTROL JOINT DETAILS

TYPICAL
JOINT TYPE IS OPTIONAL

ALABAMA LICENSED No. 30803-E PROFESSIONAL ENGINEER JORDAN DAVID SMITH
11-21-24

GADSDEN CITY HALL
100% CONSTRUCTION DRAWINGS
CITY OF GADSDEN
200 Broad St, Gadsden, AL 35901
23-083

KEY PLAN:

ARCHITECT OF RECORD:
WILLIAMS BLACKSTOCK ARCHITECTS
2204 FIRST AVENUE SOUTH, SUITE 200
BIRMINGHAM, ALABAMA 35233

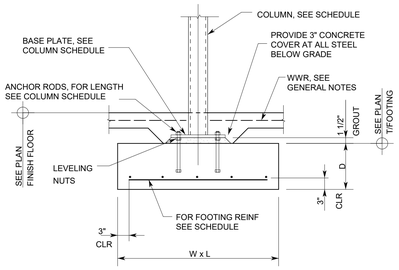
ISSUE DATE:
11-25-2024

REVISIONS:
NO. DATE DESCRIPTION

PROJECT NUMBER:
23-083

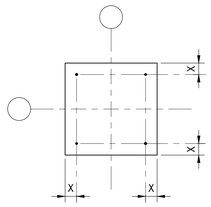
DRAWING TITLE:
TYPICAL DETAILS

SHEET NUMBER:
S-102



COLUMN BASE AND FOOTING DETAIL

TYPICAL



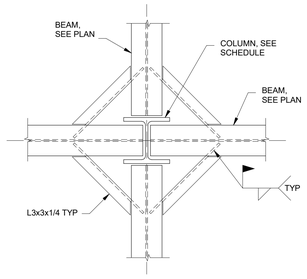
ANCHOR DIAMETER	STANDARD HOLE SIZE	X DIMENSION
3/4	1 1/16	1 1/2
7/8	1 3/16	1 1/2
1	1 5/16	2
1 1/4	1 3/4	2
1 1/2	2	2
1 3/4	2 1/4	2
2	2 1/2	2

CONTRACTOR VERIFY THAT ENTERING AND TIGHTENING CLEARANCE IS ADEQUATE. CONTACT STRUCTURAL DESIGN GROUP IF LARGER HOLE SIZES ARE REQUIRED.

ANCHOR BOLT SETTING DETAIL

TYPICAL

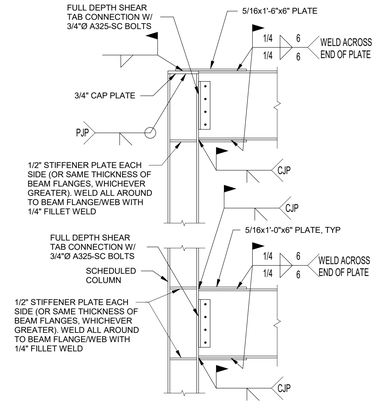
ENGINEER NOTE: BASE PLATES ARE TYPICALLY 3" LARGER THAN THE COLUMN ON ALL SIDES. CONSIDER 3 1/2" OR 4" FOR ANCHOR RODS LARGER THAN 7/8"Ø. ALSO NOTE THAT CLEAR EDGE DISTANCES MAY NOT BE ADEQUATE FOR COLUMNS WITH EXCESSIVE UPLIFT OR SHEAR.



PLAN

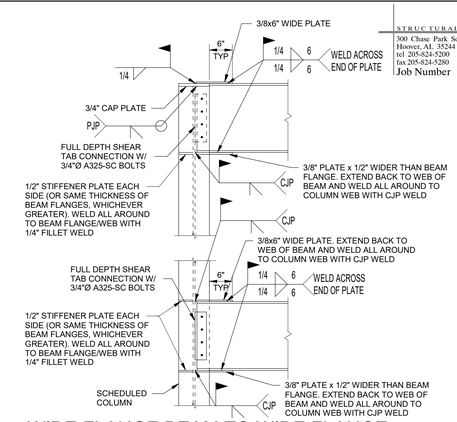
COMPOSITE DECK SUPPORT DETAIL

TYPICAL



WIDE FLANGE BEAM TO WIDE FLANGE COLUMN MOMENT CONNECTION (WMC)

TYPICAL

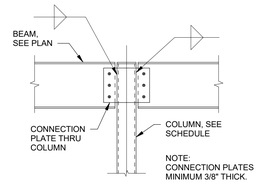


WIDE FLANGE BEAM TO WIDE FLANGE COLUMN MOMENT CONNECTION (WMC2)

TYPICAL

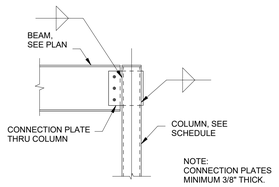
SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5260
Job Number **24-070**

ALABAMA LICENSED No. 30803-E PROFESSIONAL ENGINEER JORDAN DAVID SMITH
11-21-24



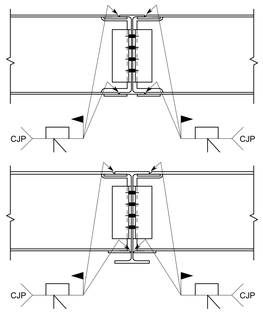
BEAM TO COLUMN CONNECTION DETAIL

TYPICAL



BEAM TO COLUMN CONNECTION DETAIL

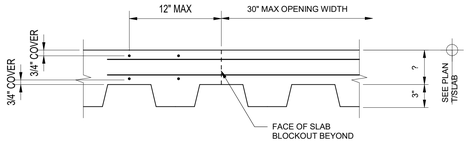
TYPICAL



NOTE:
SEE PLAN FOR MOMENT CONNECTION "MC" LOCATIONS.

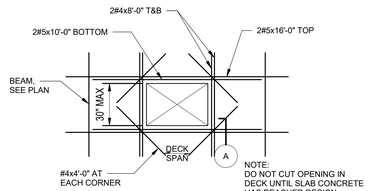
MOMENT CONNECTION ACROSS BEAM (MCB)

TYPICAL



SECTION (A)

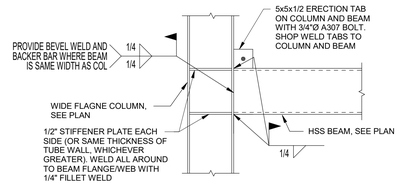
1 1/2"=1'-0"



NOTE:
DO NOT CUT OPENING IN DECK UNTIL SLAB CONCRETE HAS REACHED DESIGN STRENGTH.

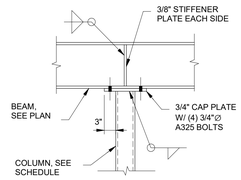
COMPOSITE SLAB OPENING DETAIL

TYPICAL



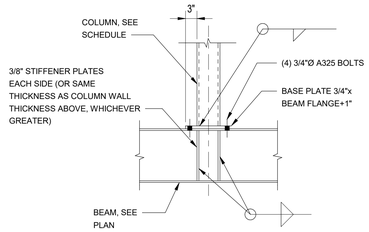
HSS MOMENT CONNECTION TO WIDE-FLANGE COLUMN (HMC1)

3/4"=1'-0"



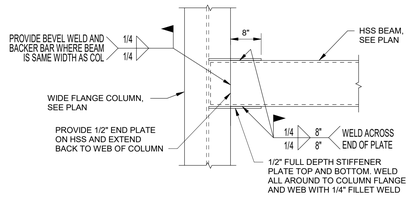
COLUMN CAP DETAIL

TYPICAL



COLUMN TRANSFER DETAIL

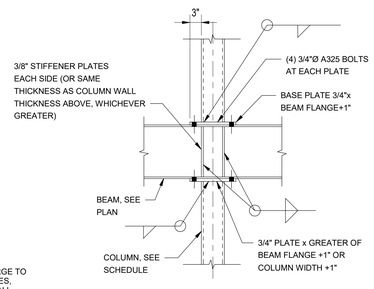
TYPICAL



HSS MOMENT CONNECTION TO WIDE-FLANGE COLUMN (HMC2)

3/4"=1'-0"

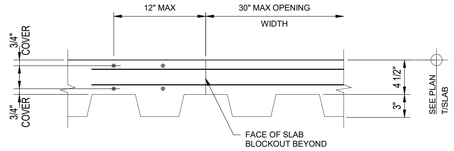
NOTE: WHERE HSS IS TOO LARGE TO FIT BETWEEN COLUMN FLANGES, PROVIDE 1/2" PLATE WELDED ALL AROUND BETWEEN COLUMN FLANGES, BUTT HSS BEAM TO PLATE AND WELD SIDES OF HSS BEAM TO PLATE AS SHOWN IN ADDITION TO STIFFENER PLATES T&B

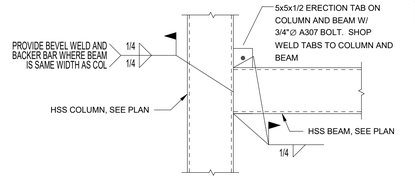


STACKED COLUMN DETAIL

TYPICAL

NOTE: AT COLUMN W1, WELD COLUMN BASEPLATE, CAP PLATE ALL AROUND TO W14 BEAM FLANGE WITH 1/4" FILLET WELD IN LIEU OF BOLTED CONNECTION





HSS MOMENT CONNECTION

3/4"=1'-0"

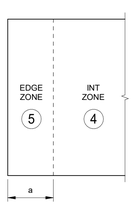
NOTE: WHERE BEAM IS WIDER THAN COLUMN, PROVIDE 3/8" END PLATE AND WELD TO COLUMN AS INDICATED WITH FILLET WELD ALONG TOP AND BOTTOM AND FLARE BEVEL WELD ALONG SIDES

COMPONENTS AND CLADDING WIND LOADS FOR WALLS (PSF)				
113 MPH VELOCITY (3-SEC. GUST)	EFFECTIVE WIND AREA (FT2)	ZONES 4 & 5	ZONES 4 (Int.)	ZONES 5 (Edge)
	10	29.5	-31.9	-39.3
	20	28.2	-30.6	-36.7
	50	26.4	-28.9	-33.3
	100	25.1	-27.6	-30.7
	200	23.8	-26.2	-28.1
	500	22.1	-24.6	-24.6

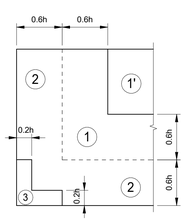
NOTES:
1. WIDTH OF EDGE STRIP 'a' = 4'-0".
2. VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO ASCE 7-16 STANDARD TABLE 30.3-1. VALUES SHOWN ARE ULTIMATE.
3. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACES.
4. EFFECTIVE WIND AREA IS THE SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD THE SPAN LENGTH.
5. WIND PRESSURES IN THESE TABLES SHALL BE MULTIPLIED BY 0.6 TO OBTAIN NOMINAL WIND PRESSURES.

COMPONENTS AND CLADDING WIND LOADS FOR ROOF (PSF)									
		ROOF					OVERHANG		
113 MPH VELOCITY (3-SEC. GUST)	EFFECTIVE WIND AREA (FT2)	Positive Max. Net Pressure 'p' (PSF)	Zone 1 (Int.)	Zone 2 (Edge)	Zone 3 (Corner)		Zone 2 (Edge) - Max. Net Pressure 'p' (PSF)	Zone 3 (Corner) - Max. Net Pressure 'p' (PSF)		
	10	16.0	-34.9	-48.6	-75.9		-40.4	-54.0		
	20	16.0	-34.9	-47.7	-67.6		-39.6	-49.1		
	50	16.0	-34.9	-46.7	-56.8		-38.5	-42.6		
	100	16.0	-34.9	-45.8	-48.6		-37.7	-37.7		
	200	16.0	-34.9	-45.8	-48.6		-37.7	-37.7		
	500	16.0	-34.9	-45.8	-48.6		-37.7	-37.7		

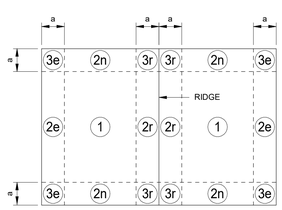
NOTES:
1. WIDTH OF EDGE STRIP 'a' = 4'-0".
2. VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO ASCE 7-16 STANDARD TABLE 30.3-1. VALUES SHOWN ARE ULTIMATE.
3. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACES.
4. EFFECTIVE WIND AREA IS THE SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD THE SPAN LENGTH.
5. CONSIDER 5 PSF MINIMUM DEAD LOAD FOR UPLIFT CALCULATIONS FOR ROOF TRUSSES AND 2 PSF MINIMUM DEAD LOAD FOR UPLIFT CALCULATIONS FOR ROOF DECK.
6. WIND PRESSURES IN THESE TABLES SHALL BE MULTIPLIED BY 0.6 TO OBTAIN NOMINAL WIND PRESSURES.



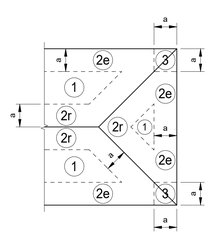
WALLS



FLAT ROOFS



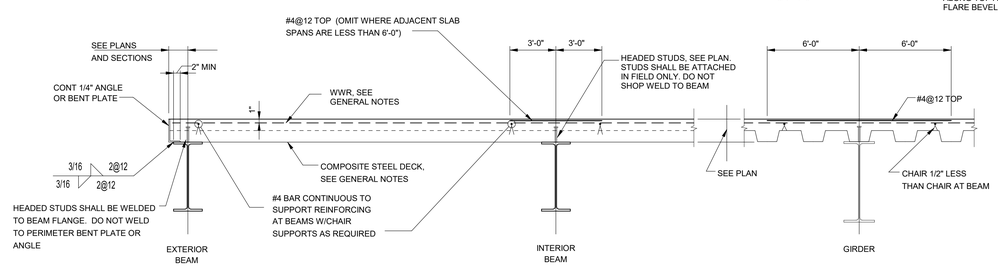
GABLE ROOFS



HIP ROOFS

WALL AND ROOF WIND PRESSURE ZONE DIAGRAMS

TYPICAL



COMPOSITE SLAB/DECK DETAILS

TYPICAL

GADSDEN CITY HALL
100% CONSTRUCTION DRAWINGS

CITY OF GADSDEN
200 Broad St, Gadsden, AL 35901
23-083

KEY PLAN:

ARCHITECT OF RECORD:
WILLIAMS BLACKSTOCK ARCHITECTS
2204 FIRST AVENUE SOUTH, SUITE 200
BIRMINGHAM, ALABAMA 35233

ISSUE DATE:
11-25-2024

REVISIONS:

NO.	DATE	DESCRIPTION

PROJECT NUMBER:
23-083

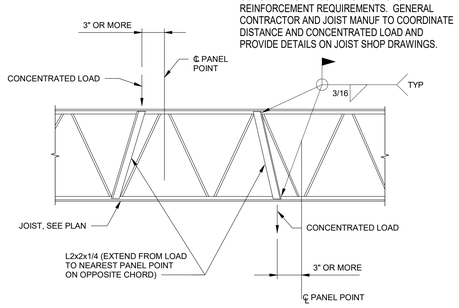
DRAWING TITLE:
TYPICAL DETAILS

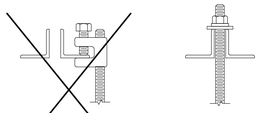
SHEET NUMBER:
S-103

SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5260
Job Number **24-070**

ALABAMA LICENSED No. 30803-E PROFESSIONAL ENGINEER JORDAN DAVID HYDE
11-21-24

NOTE:
JOIST MANUF TO VERIFY 3" DIMENSION AND MAX CONCENTRATED LOAD FOR T&B CHORD REINFORCEMENT REQUIREMENTS. GENERAL CONTRACTOR AND JOIST MANUF TO COORDINATE DISTANCE AND CONCENTRATED LOAD AND PROVIDE DETAILS ON JOIST SHOP DRAWINGS.

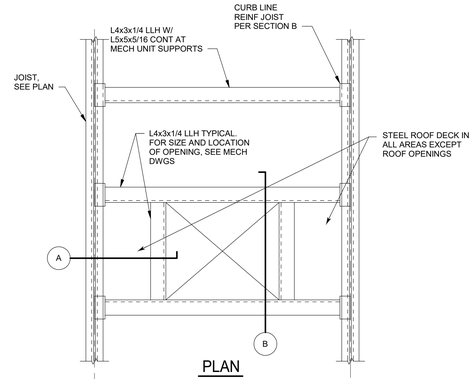




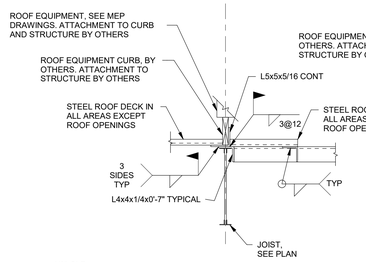
ECCENTRICALLY LOADED JOIST — NOT RECOMMENDED

CONCENTRICALLY LOADED JOIST — RECOMMENDED

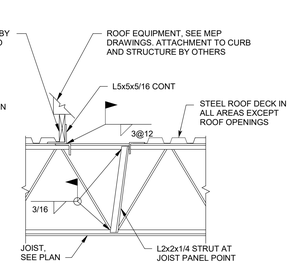
JOIST REINFORCEMENT DETAIL
TYPICAL



PLAN



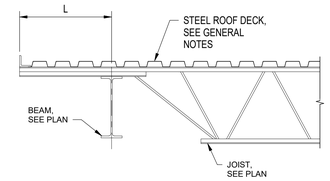
SECTION A



SECTION B

NOTES:
1. PROVIDE L4x3x1/4 LLH FRAMES AT ALL WATER/POWER BOXES.
2. AT ROOF DRAINS SUPPORT, PROVIDE L2x2x1/4 AT JOIST TOP CHORD.
3. CONTRACTOR COORDINATE ROOF EQUIPMENT FRAMES WITH EQUIPMENT MANUFACTURER. DETAIL IS SCHEMATIC DEPICTION AND OTHER CONFIGURATIONS MAY BE REQUIRED.
4. FASTEN STEEL ROOF DECK TO ALL ANGLES PER DECK FASTENING REQUIREMENT.

ROOF EQUIPMENT FRAME DETAIL
TYPICAL AT ALL OPENINGS IN ROOF LARGER THAN 8"



JOIST SEAT EXTENSION

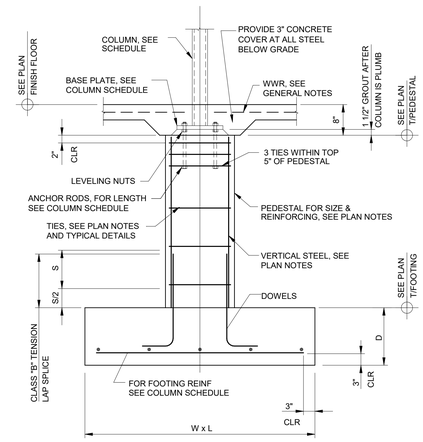
L	EXTENDED END, "R" TYPE
6"	R1
1'-0"	R1
1'-6"	R1
2'-0"	R1
2'-6"	R5
3'-0"	R11
3'-6"	R12
4'-0"	R12
4'-6"	R12
5'-0"	R12

JOIST SEAT EXTENSION
TYPICAL

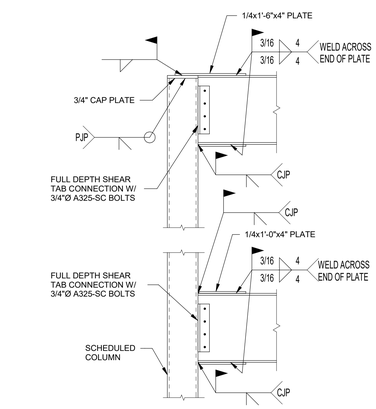
PIPING WEIGHTS

PIPE DIAMETER	PIPE WT PER/FOOT (PLF)	FLUID WT PER/FOOT (PLF)	INSULATION & HANGERS (PLF)	TOTAL WT PER/FOOT (PLF)
4"	10.80	6.10	2.00	18.90
6"	19.00	13.80	3.00	35.80
8"	28.60	23.90	4.00	56.50
10"	40.50	37.50	4.00	82.00
12"	49.60	54.00	5.00	108.60
14"	54.60	65.70	5.00	125.30
16"	62.60	87.10	5.00	154.70

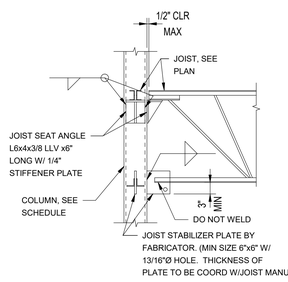
NOTES:
1. FROM ANVIL INTERNATIONAL PIPE FITTERS HANDBOOK.
2. ALL PIPES ASSUMED TO BE SCHEDULE 40.
3. FLUID WEIGHT INCLUDES ALLOWANCE FOR GLYCOL CONCENTRATION.
4. PIPING SUPPORT AND THRUST BRACING REQUIREMENTS SHALL BE COORDINATED BY THE GENERAL CONTRACTOR WITH THE STEEL/JOIST FABRICATOR. SEE MECHANICAL/PLUMBING DRAWINGS FOR PIPING SUPPORT AND THRUST BRACING REQUIREMENTS.
5. FOR PIPE SIZES NOT LISTED, CONTACT STRUCTURAL ENGINEER.



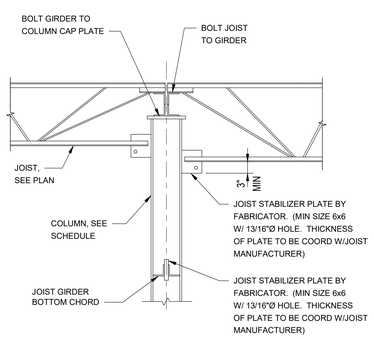
COLUMN BASE, PEDESTAL AND FOOTING DETAIL
TYPICAL



WIDE FLANGE BEAM TO TUBE COLUMN MOMENT CONNECTION (TMC)
TYPICAL



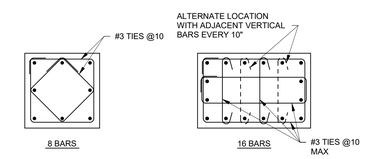
JOIST SUPPORT AT COLUMN



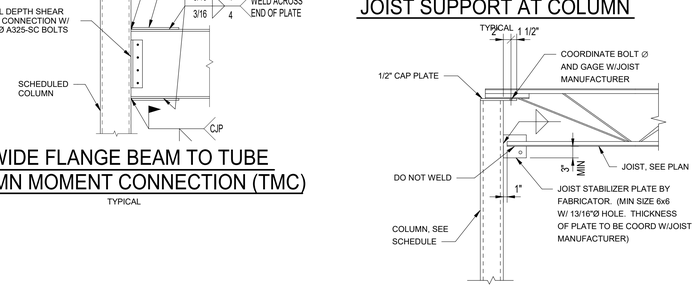
JOIST CONNECTION DETAIL
TYPICAL

1 1/2" STEEL ROOF DECK ATTACHMENT PATTERN LAYOUT
3/4"=1'-0"

NOTE: CONTRACTOR OPTION TO USE HILTI S-SLC 02 M HWH IN LIEU OF #10 SIDELAP SCREWS

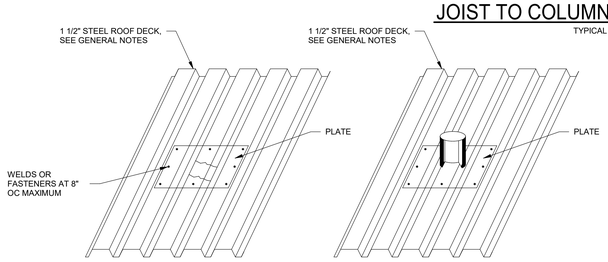


PEDESTAL REINFORCEMENT LAYOUT



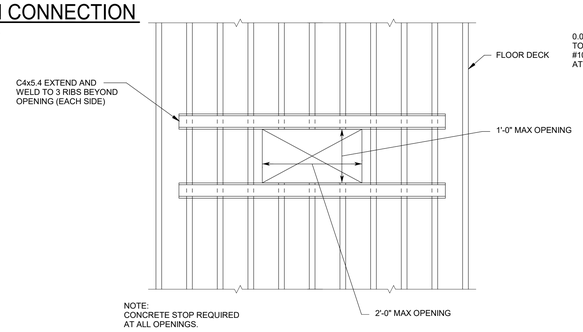
JOIST TO COLUMN CONNECTION
TYPICAL

ANGLE SPLICE DETAIL
TYPICAL AT ALL SPLICES



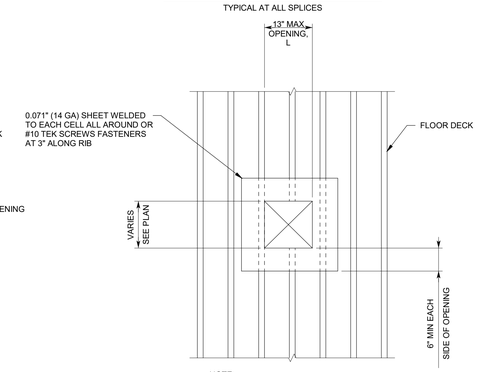
NOTE:
1. UP TO 6" - NO REINFORCING OR 0.045" (18 GA) MINIMUM PLATE THICKNESS.
2. 6" TO 8" DIAMETER - 0.045" (18 GA) MINIMUM PLATE THICKNESS.
3. 8" TO 13" DIAMETER - 0.057" (16 GA) MINIMUM PLATE THICKNESS.
4. OVER 13" - PROVIDE FRAME OPENING PER TYPICAL DETAIL.

ROOF DECK PENETRATIONS
TYPICAL



NOTE:
CONCRETE STOP REQUIRED AT ALL OPENINGS.

FLOOR DECK OPENINGS
TYPICAL UP TO 2'-0"



NOTE:
NO REINFORCEMENT REQUIRED WHERE "L" IS 6" OR LESS, IN DIRECTION PERPENDICULAR TO DECK.

FLOOR DECK OPENINGS
TYPICAL UP TO 13"

PEDESTAL SCHEDULE

PEDESTAL DESIGNATION		P1	P2
PEDESTAL	SIZE (IN)	18x18	24x36
	VERTICALS	8#6	16#6
	TIES	#3@10	#3@10
	NOTES	1	1

1. WHERE PEDESTAL IS OVER EXISTING FOOTING, DRILL AND EPOXY ANCHOR VERTICAL REBAR 9" INTO TOP OF EXISTING FOOTING

MASONRY LINTEL SCHEDULE

MAXIMUM OPENING WIDTH	STEEL FOR EACH 4" OF WALL THICKNESS
2'-0"	L7x4x3/8 (LONG LEG HORIZONTAL)
4'-0"	L7x4x3/8 (LONG LEG HORIZONTAL)
6'-0"	L7x4x3/8 (LONG LEG HORIZONTAL)
8'-0"	L7x4x3/8 (LONG LEG HORIZONTAL)
10'-0"	L7x4x3/8 (LONG LEG HORIZONTAL)
12'-0"	L7x4x3/8 (LONG LEG HORIZONTAL)

1. PROVIDE 8" MINIMUM BEARING FOR ALL LINTELS.
2. ALL EXPOSED LINTEL ANGLES TO BE HOT DIP GALVANIZED.

GADSDEN CITY HALL
100% CONSTRUCTION DRAWINGS
CITY OF GADSDEN
200 Broad St. Gadsden, AL 35901
23-083

KEY PLAN:

ARCHITECT OF RECORD:
WILLIAMS BLACKSTOCK ARCHITECTS
2204 FIRST AVENUE SOUTH, SUITE 200
BIRMINGHAM, ALABAMA 35233

ISSUE DATE:
11-25-2024

REVISIONS:
NO. DATE DESCRIPTION

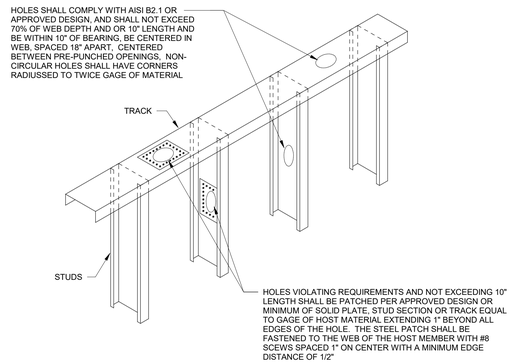
PROJECT NUMBER:
23-083

DRAWING TITLE:
TYPICAL DETAILS

SHEET NUMBER:
S-104

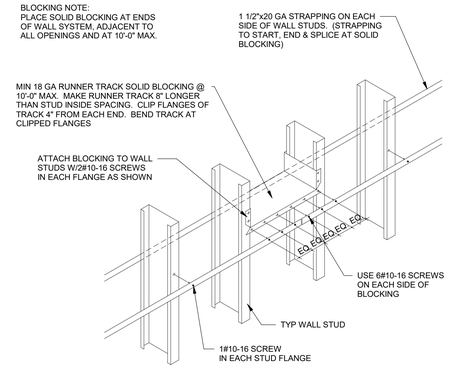
SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5260
Job Number **24-070**

ALABAMA LICENSED No. 30803-E PROFESSIONAL ENGINEER JORDAN DAVID SMITH
11-21-24



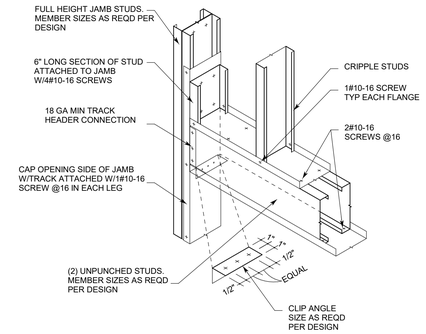
WALL PANEL MAXIMUM PENETRATION REQUIREMENTS

TYPICAL



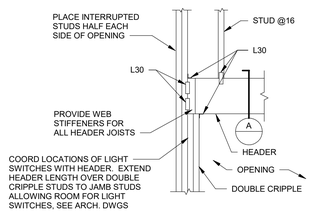
STRAP BRIDGING LATERAL BRACING

TYPICAL



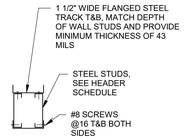
BOX HEADER

TYPICAL



OPENING FRAMING

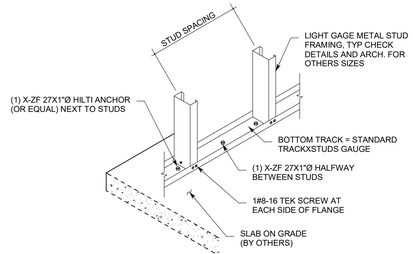
TYPICAL



DETAIL A

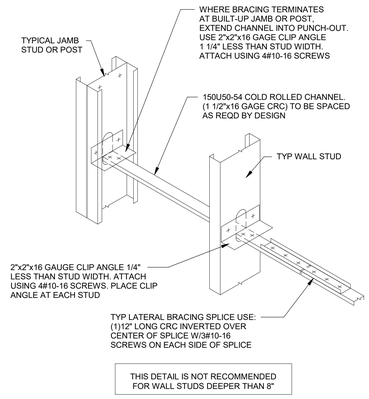
3/4"=1'-0"

HEADER SCHEDULE	
LENGTH	3 5/8", 6" AND 8" WALL
4'-0"	(2) 800S162-54
6'-0"	(2) 800S162-54
8'-0"	(2) 800S162-54
10'-0"	(2) 1000S162-54
12'-0"	(2) 1000S162-54
14'-0"	(2) 1200S162-68



SLAB CONNECTION DETAIL

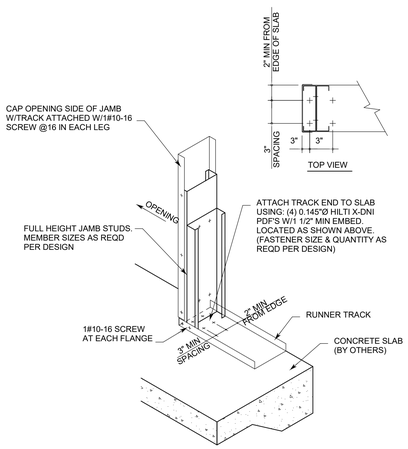
TYPICAL



THIS DETAIL IS NOT RECOMMENDED FOR WALL STUDS DEEPER THAN 8"

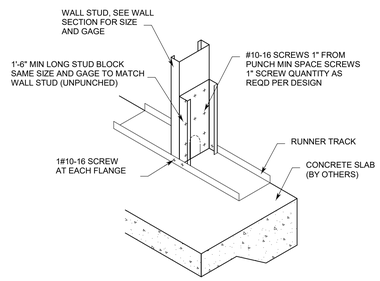
STUD BRIDGING WITH BRIDGING CLIP

TYPICAL



DOOR JAMB ANCHORAGE

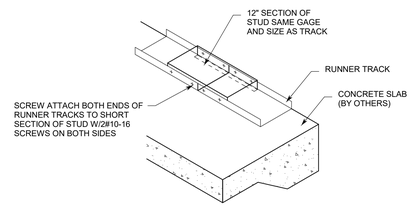
TYPICAL



NOTE:
WHERE FIELD CUTS CAUSE PUNCHOUT TO OCCUR AT STUD/RUNNER INTERSECTION REINFORCE STUD AS SHOWN FOR SCREW ATTACHMENT.

REINFORCEMENT AT STUD END

TYPICAL



BOTTOM TRACK SPLICE

TYPICAL

GADSDEN CITY HALL
100% CONSTRUCTION DRAWINGS
CITY OF GADSDEN
200 Broad St, Gadsden, AL 35901
23-083

KEY PLAN :

ARCHITECT OF RECORD :
WILLIAMS BLACKSTOCK ARCHITECTS
2204 FIRST AVENUE SOUTH, SUITE 200
BIRMINGHAM, ALABAMA 35233

ISSUE DATE:
11-25-2024

REVISIONS :

NO.	DATE	DESCRIPTION

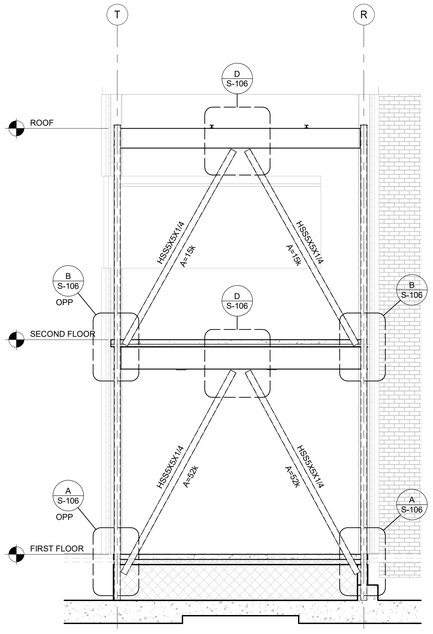
PROJECT NUMBER:
23-083

DRAWING TITLE:
TYPICAL DETAILS

SHEET NUMBER:
S-105

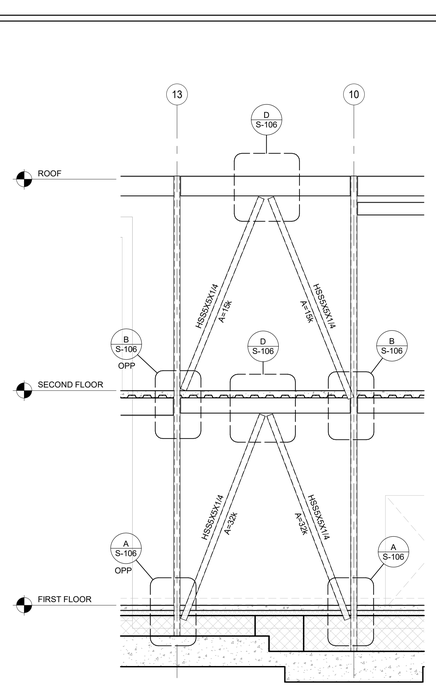
SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5260
Job Number **24-070**

ALABAMA LICENSED No. 30803-E PROFESSIONAL ENGINEER JORDAN DAVID WEBB
11-21-24



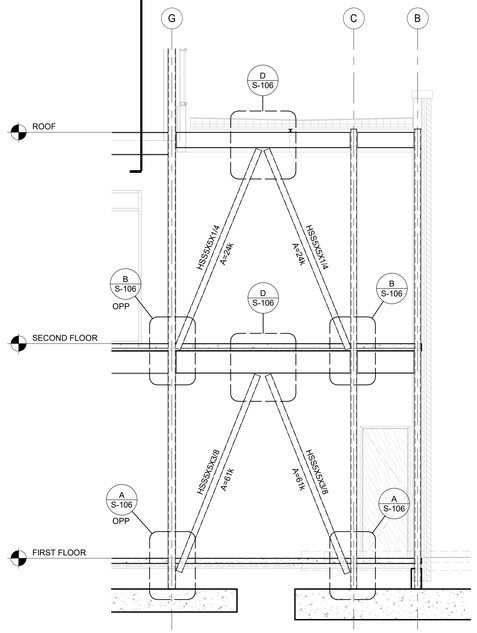
ELEVATION 1/S-106
1/4" = 1'-0"

BRACING NOTES:
1. CONTRACTOR SHALL DESIGN BEAM TO COLUMN CONNECTION FOR SHEAR LOAD PLUS AXIAL LOAD RESULTING FROM SPECIFIED BRACING MEMBER FORCES.
2. WORKING LOAD AXIAL FORCES ARE INDICATED IN KIPS.
3. PROVIDE 'FBP1' BASEPLATE DETAIL FOR BOTH COLUMNS, SEE DETAIL ON THIS SHEET.



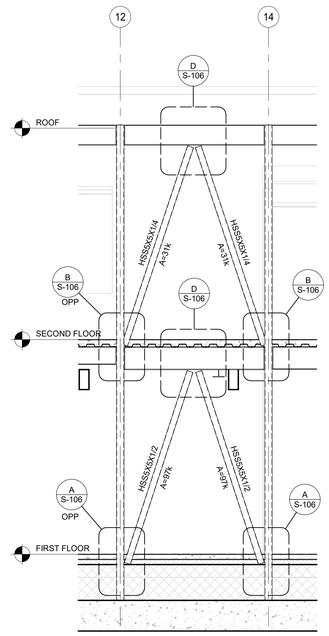
ELEVATION 2/S-106
1/4" = 1'-0"

BRACING NOTES:
1. CONTRACTOR SHALL DESIGN BEAM TO COLUMN CONNECTION FOR SHEAR LOAD PLUS AXIAL LOAD RESULTING FROM SPECIFIED BRACING MEMBER FORCES.
2. WORKING LOAD AXIAL FORCES ARE INDICATED IN KIPS.
3. PROVIDE 'FBP1' BASEPLATE DETAIL FOR BOTH COLUMNS, SEE DETAIL ON THIS SHEET.



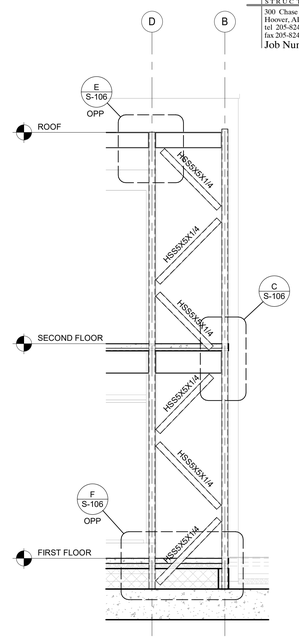
ELEVATION 3/S-106
1/4" = 1'-0"

BRACING NOTES:
1. CONTRACTOR SHALL DESIGN BEAM TO COLUMN CONNECTION FOR SHEAR LOAD PLUS AXIAL LOAD RESULTING FROM SPECIFIED BRACING MEMBER FORCES.
2. WORKING LOAD AXIAL FORCES ARE INDICATED IN KIPS.
3. PROVIDE 'FBP1' BASEPLATE DETAIL FOR BOTH COLUMNS, SEE DETAIL ON THIS SHEET.



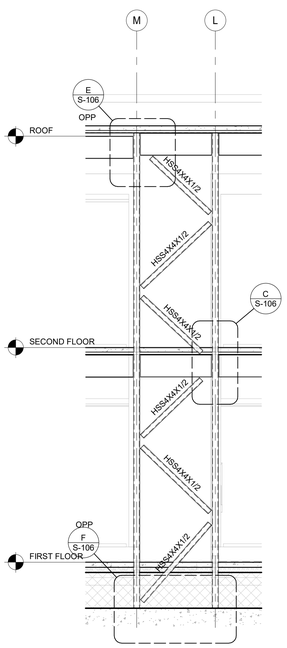
ELEVATION 4/S-106
1/4" = 1'-0"

BRACING NOTES:
1. CONTRACTOR SHALL DESIGN BEAM TO COLUMN CONNECTION FOR SHEAR LOAD PLUS AXIAL LOAD RESULTING FROM SPECIFIED BRACING MEMBER FORCES.
2. WORKING LOAD AXIAL FORCES ARE INDICATED IN KIPS.
3. PROVIDE 'FBP1' BASEPLATE DETAIL FOR BOTH COLUMNS, SEE DETAIL ON THIS SHEET.

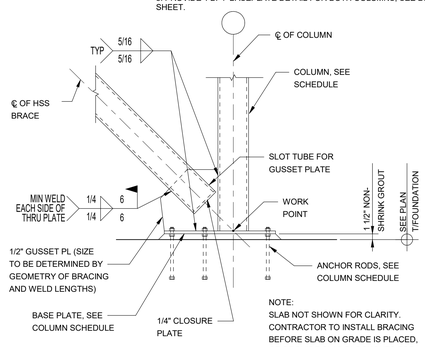


ELEVATION 5/S-106
1/4" = 1'-0"

BRACING NOTES:
1. AT B19, PROVIDE WT BASEPLATE IN BOTH DIRECTIONS AS INDICATED IN DETAIL F/S-106.

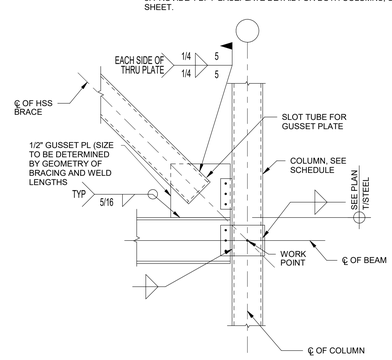


ELEVATION 6/S-106
1/4" = 1'-0"

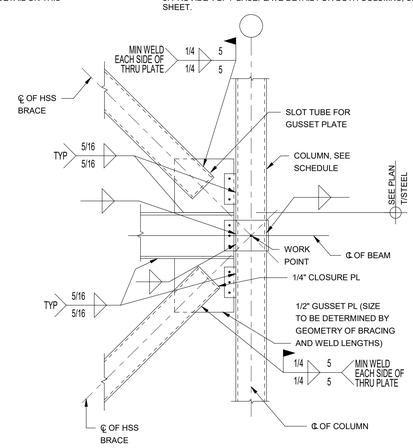


NOTE:
SLAB NOT SHOWN FOR CLARITY. CONTRACTOR TO INSTALL BRACING BEFORE SLAB ON GRADE IS PLACED, OR PROVIDE SLAB BLOCKOUTS FOR BRACE.

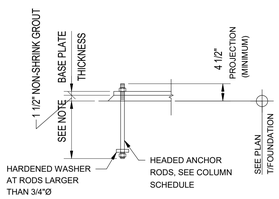
DETAIL A/S-106
3/4" = 1'-0"



DETAIL B/S-106
3/4" = 1'-0"



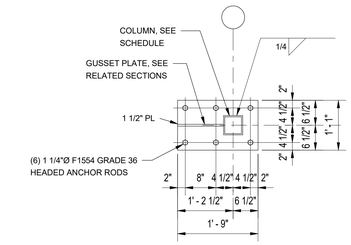
DETAIL C/S-106
3/4" = 1'-0"



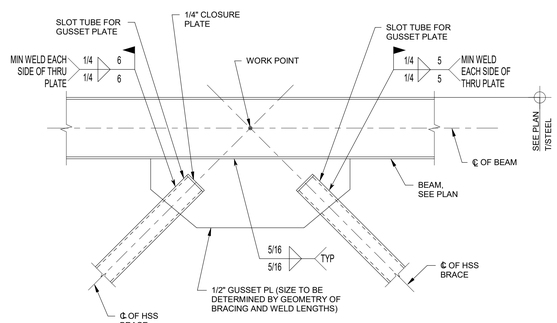
BRACE FRAME COLUMN ANCHOR RODS
TYPICAL

NOTE: PROVIDE 1'-3" EMBEDMENT, TYP.

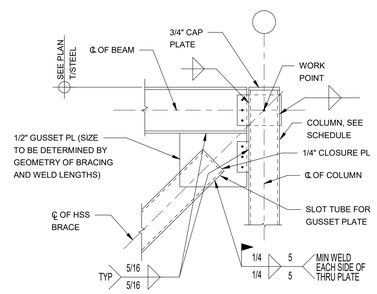
AT COLUMNS T11 AND T14, PROVIDE 1'-6" OF EMBEDMENT.



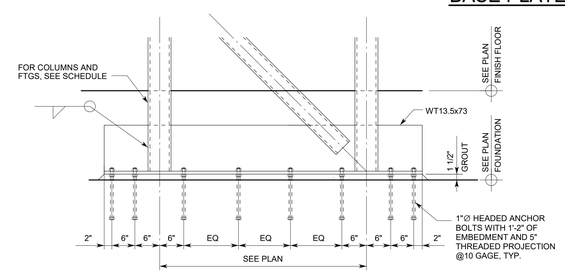
BASE PLATE FBP1



DETAIL D/S-106
3/4" = 1'-0"



DETAIL E/S-106
3/4" = 1'-0"



DETAIL F/S-106
3/4" = 1'-0"

NOTE:
AT OFFSET BASEPLATES, PROVIDE 1" THICK x 14" WIDE BASE PLATE WITH 3/4" THICK x 13.5" TALL VERTICAL PLATE. CENTER VERTICAL BETWEEN HSS COLUMNS TO RECEIVE BRACE. PROVIDE 1/4" STITCH WELD (3@12 STAGGERED) ON EACH SIDE OF VERTICAL PLATE TO BASE PLATE. PROVIDE 2 ROWS OF ANCHORS AS SHOWN AND SPACE ROWS AT 7" O.C. WITH MIN 2" TO EDGE OF BASE PLATE. WHERE OFFSET DOES NOT ALLOW PLATE TO EXTEND BEYOND OUTSIDE FACE OF COLUMN, STOP PLATE AND PROVIDE ADDITIONAL ANCHORS BETWEEN COLUMNS AT EQUAL SPACING.

GADSDEN CITY HALL
100% CONSTRUCTION DRAWINGS
CITY OF GADSDEN
200 Broad St., Gadsden, AL 35901
23-083

KEY PLAN:

ARCHITECT OF RECORD:
WILLIAMS BLACKSTOCK ARCHITECTS
2204 FIRST AVENUE SOUTH, SUITE 200
BIRMINGHAM, ALABAMA 35233

ISSUE DATE:
11-25-2024

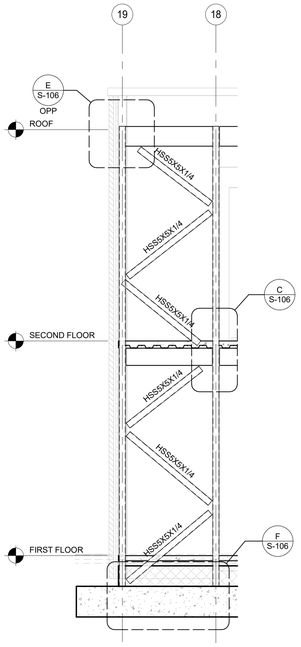
REVISIONS:

NO.	DATE	DESCRIPTION

PROJECT NUMBER:
23-083

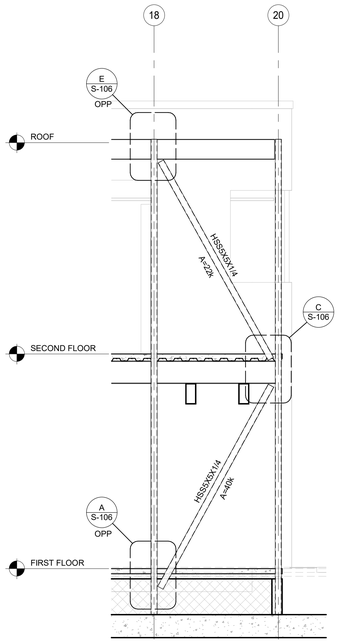
DRAWING TITLE:
BRACING ELEVATIONS AND DETAILS

SHEET NUMBER:
S-106



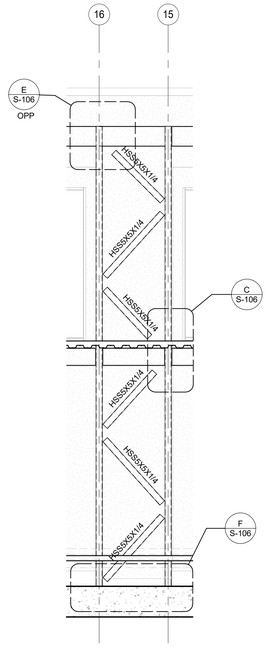
ELEVATION 1 S-107
1/4" = 1'-0"

BRACING NOTES:
1. AT B19, PROVIDE WT BASEPLATE IN BOTH DIRECTIONS AS INDICATED IN DETAIL F/S-106.



ELEVATION 2 S-107
1/4" = 1'-0"

BRACING NOTES:
1. CONTRACTOR SHALL DESIGN BEAM TO COLUMN CONNECTION FOR SHEAR LOAD PLUS AXIAL LOAD RESULTING FROM SPECIFIED BRACING MEMBER FORCES.
2. WORKING LOAD AXIAL FORCES ARE INDICATED IN KIPS.
3. PROVIDE 'FBP1' BASEPLATE DETAIL WITH BASEPLATE ORIENTED IN DIRECTION OF THIS FRAME FOR COLUMN T17 AND 'FBP1' BASEPLATE DETAIL WITH BASEPLATE ORIENTED IN DIRECTION OF FRAME ELEVATION 1/S-106 FOR COLUMN T19. SEE 'FBP1' DETAIL ON S-106.



ELEVATION 3 S-107
1/4" = 1'-0"

SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5260
Job Number **24-070**

ALABAMA LICENSED No. 30803-E PROFESSIONAL ENGINEER JORDAN DAVID SMITH
11-21-24

GADSDEN CITY HALL
100% CONSTRUCTION DRAWINGS

CITY OF GADSDEN
200 Broad St, Gadsden, AL 35901
23-083

KEY PLAN :

ARCHITECT OF RECORD :
WILLIAMS BLACKSTOCK ARCHITECTS
2204 FIRST AVENUE SOUTH, SUITE 200
BIRMINGHAM, ALABAMA 35233

ISSUE DATE:
11-25-2024

REVISIONS :

NO.	DATE	DESCRIPTION

PROJECT NUMBER:
23-083

DRAWING TITLE:
BRACING ELEVATIONS

SHEET NUMBER:
S-107