HEARD COUNTY FIRE STATION #5 365 Joe Stephens Road, Georgia 30217

PROJECT TEAM

OWNER

HEARD COUNTY COMMISSIONER'S OFFICE 15 COURT SQUARE FRANKLIN, GEORGIA 30217

CONTACT: x TELEPHONE: > EMAIL: x

ARCHITECT

GARDNER, SPENCER, SMITH, TENCH & JARBEAU, P.C TOWER PLACE, 3340 PEACHTREE ROAD SUITE 1800 ATLANTA, GA 30303

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CIVIL ENGINEER CARTER ENGINEERING 1010 COMMERCE DRIVE

BOGART, GA 30622 ENGINEER OF RECORD: BRIAN KIMSEY, P.E.

CONTACTS: BRIAN KIMSEY, P.E. TELEPHONE: 770-725-1200 brian@carterengineering.com

STRUCTURAL ENGINEER WILLETT ENGINEERING 3528 HABERSHAM AT NORTHLAKE

TUCKER, GEORGIA 30084

ENGINEER OF RECORD: J. MAC WILLETT, P.E. MOBILE: EMAIL:

CONTACTS: J. MAC WILLETT, P.E. BRANDON J. HOFFMAN, P.E., S.E TELEPHONE: 770-270-9484, EXT, 148 404-580-1197 mwillett@willettengineering.com bhoffman@willettengineering.com

MECHANICAL ENGINEER BAA MECHANICAL ENGINEERS, INC. 500 BISHOP STREET, SUITE E2 ATLANTA, GEORGIA 30318

ENGINEER OF RECORD: JEFF LEE, P.E. CONTACT: JEFF LEE TELEPHONE: 404-255-0050 MOBILE: E-MAIL: jeffl@baamech.com

ELECTRICAL ENGINEER MATHIS CONSULTING ENGINEERS, LLC 244 O'DELL ROAD, SUITE 6

GRIFFIN, GEORGIA 30224 ENGINEER OF RECORD: J. KEITH MATHIS, P.E. CONTACTS: J. KEITH MATHIS, P.E. CHRIS HAMILTON TELEPHONE: 770-584-6193 MOBILE: E-MAIL:

keith@mathisengineers.com chris@mathisengineers.com

PLUMBING ENGINEER BAA MECHANICAL ENGINEERS, INC. 500 BISHOP STREET, SUITE E2 ATLANTA, GEORGIA 30318

ENGINEER OF RECORD: JEFF POWELL, P.E. CONTACT: JEFF POWELL TELEPHONE: 404-255-0050, EXT. 204 MOBILE: 404-819-6212 E-MAIL: jeffp@baamech.com

GENERAL NOTES

DO NOT SCALE DRAWINGS. USE WRITTEN DIMENSIONS ONLY. SUBMIT ANY DISCREPANCIES TO THE ARCHITECT FOR CLARIFICATION PRIOR TO EXECUTION OF THE WORK IN QUESTION.

2. ALL DIMENSIONS ARE TO FACE OF FINISH MATERIAL OR CENTERLINE OF FIXTURE UNLESS CLEARLY SHOWN OR NOTED OTHERWISE

BY THE OWNER AND/ OR ARCHITECT

4. THE LOCATION OF THE EXISTING UTILITIES AND STRUCTURES SHOWN IN THE DOCUMENTS ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND ACTUAL LOCATION OF SUCH. WHETHER SHOWN HEREON OR NOT. PRIOR TO ANY EXCAVATION.

ADJACENT FINISHED WALLS.

6. FURNISH ACCESS PANELS IN WALLS AND NON-ACCESSIBLE TYPE CEILINGS WHERE SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING OR ELECTRICAL EQUIPMENT MAY BE REQUIRED. ACCESS PANELS SHALL BE EQUAL IN FIRE RATING TO SURFACE IN WHICH THEY OCCUR. REFER TO ENGINEERING DRAWINGS FOR LOCATION OF MECHANICAL. PLUMBING AND ELECTRICAL EQUIPMENT.

- PROVIDE CONTROL JOINTS IN GYPSUM WALL BOARD AS SHOWN IN THE DRAWINGS. OR IF NOT SHOWN, MAXIMUM ALLOWED PER MANUFACTURERS SPECIFICATION.
- GYPSUM WALLBOARD IN ROOMS SUBJECT TO MOISTURE ACCUMULATION (TOILETS, SHOWERS, JANITORS CLOSET, ETC.) SHALL BE MOISTURE RESISTANT TYPE.

10. ALL GYPSUM WALL BOARD MATERIAL IN FIRE RATED ASSEMBLIES SHALL BE FIRE RESISTIVE UL CLASSIFIED MATERIAL APPLIED IN STRICT COMPLIANCE TO THE APPLICABLE FIRE TEST DESIGN WITH JOINTS ON OPPOSITE WALL FACES STAGGERED. FASTENERS SHALL BE OF APPROVED TYPE AND INSTALLED IN ACCORDANCE WITH APPLICABLE FIRE TEST. ALL WALLBOARD JOINTS IN ALL PARTITION WALLS SHALL BE TAPED AND FINISHED WITH JOINT COMPOUND, INCLUDING THOSE ABOVE THE FINISHED CEILING. PENETRATIONS FOR PIPES, CONDUIT, FRAMING MEMBERS, DUCTS, ETC. SHALL BE FRAMED WITH RUNNER CHANNELS AND TIGHTLY SEALED. SUCH PENETRATIONS SHALL BE TIGHTLY PACKED WITH MINERAL FIBER SAFING INSULATION.

11. IMMEDIATELY NOTIFY ARCHITECT IN WRITING IF ANY OMISSION, DISCREPANCY, AMBIGUITY, OR ERROR IN THE CONTRACT DOCUMENTS BE DISCOVERED OR IF ANY DOUBT AS TO THE MEANING OR INTENT THEREOF SHOULD ARISE. CLARIFICATION WILL BE MADE BY REVISION TO THE CONTRACT DOCUMENTS.

- 12. ALL ATTACHMENTS. SCREWS AND BOLTS BETWEEN STRUCTURAL STEEL AND TREATED WOOD. BLOCKING AND NAILERS SHALL BE GALVANIZED.
- 13. PAINT ALL EXPOSED DUCTWORK, PIPING, CONDUIT, ETC. PER MFG. RECOMMENDATION.
- WELL AS COMPLETE DETAILS OF WORK TO BE PERFORMED. ALL FABRICATION SHALL BE BASED ON ACTUAL FIELD DIMENSIONS

15. CONTRACTOR SHALL OBTAIN ALL PERMITS AND INSPECTIONS REQUIRED BY LOCAL AND STATE AND LOCAL CODES. ALL RECOMMENDATIONS AND REQUIREMENTS OF THE STATE CODES AND NFPA 90-A SHALL BE FOLLOWED.

- 16. VISIT THE JOB SITE AND CHECK ALL EXISTING CONDITIONS PRIOR TO SUBMITTING A PRICE FOR PERFORMING ANY WORK.
- THE ARCHITECT IMMEDIATELY FOR DIRECTION

PROJECT NOTES/ APPLICABLE CODES

INTERNATIONAL BUILDING CODE (IBC): 2018 EDITION WITH GA AMENDMENTS.

NATIONAL ELECTRIC CODE (NEC): 2020 EDITION INTERNATIONAL FUEL GAS CODE (IFGC): 2018 EDITION WITH GA AMENDMENT. INTERNATIONAL MECHANICAL CODE (IMC): 2018 EDITION WITH GA AMENDMENTS INTERNATIONAL PLUMBING CODE (IPC): 2018 EDITION WITH GA AMENDMENTS INTERNATIONAL ENERGY CONSERVATION CODE (IECC): 2015 EDITION WITH GA SUPPLEMENTS AND AMENDMENTS

INTERNATIONAL FIRE CODE (IFC): 2018 EDITION

GEORGIA ACCESSIBILITY CODE - GAC 120-3-20 - 2015 EDITION

NATIONAL FIRE PROTECTION ASSOCIATION 101 LIFE SAFETY CODE (LSC): 2018 EDITI U.S. DEPT. OF JUSTICE A.D.A. STANDARDS FOR ACCESSIBLE DESIGN (ADA): 2010 EDITION

CHAPTER 120-3-3 RULES AND REGULATIONS FOR THE STATE MIN. FIRE STANDARDS GA

VICINITY MAP



3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXECUTION OF THE WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS UNLESS WRITTEN NOTIFICATION TO THE CONTRARY IS ISSUED AND SIGNED

5. ALL VERTICAL AND HORIZONTAL DUCTS, PIPES, CONDUIT, AND SIMILAR ASSEMBLIES IN FINISHED ROOMS SHALL BE ENCLOSED IN A FINISHED CHASE. THE MATERIALS AND FINISHES OF SUCH CHASES SHALL MATCH

TIGHTLY SEAL ANY OPENINGS IN FIRE RATED WALLS BY DUCTS, PIPES, CONDUIT, STRUCTURAL MEMBERS, OR ANY OTHER MATERIALS. OPENINGS IN METAL STUD PARTITIONS SHALL BE SEALED WITH FIRE SAFING

14. SHOP DRAWINGS AND SAMPLES SHALL BE SUBMITTED FOR APPROVAL TO THE INTERIOR DESIGNER/ ARCHITECT PRIOR TO CONSTRUCTION AND/OR PURCHASE OF MATERIALS DESCRIBING THE OVERALL SCOPE AS

17. CONTRACTOR TO VERIFY WITH THE OWNER AND/OR OWNER'S REPRESENTATIVES ALL PLUMBING AND ELECTRICAL REQUIREMENTS FOR EQUIPMENT PROVIDED BY THE OWNER.

18. INTERIOR CONTRACT DOCUMENTS HOLD PRECEDENCE OVER ENGINEER DOCUMENTS FOR LOCATIONS, MOUNTING HEIGHTS, ETC. IF THERE IS A CONFLICT BETWEEN DOCUMENTS, THE CONTRACTOR IS TO NOTIFY

	PROJ	ECT IN		ATION			A2 A3 A3
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DRA	WING INDEX	BID ISSUE	REV 1	REV 2	REV 3	REV 4	REV 5	REV 6	REV 7	REV 8	
<u>NERAL</u> .00 .11	COVER SHEET LEVEL 1 LIFE SAFETY PLAN	03/06/24 03/06/24									
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00 .10 .11 .10	PLUMBING LEGEND, SCHEDULE, & DETAILS PLUMBING FLOOR PLAN - S, W, & V PLUMBING FLOOR PLAN - H, & CW PLUMBING - LARGE SCALE PLANS	03/06/24 03/06/24 03/06/24 03/06/24									





Occupancy Schedule													
Room No.	Room Name	Area	Room Type	SF per Person	Occupant Load								
101	LOBBY	153 SF	Assembly (Less Conc)	15 SF	11								
103	GEAR	127 SF	Storage	500 SF	1								
103A	JAN	14 SF	Storage	500 SF	1								
104	VOTE	432 SF	Assembly (Less Conc)	15 SF	29								
104A	STORAGE	31 SF	Storage	500 SF	1								
105	CORRIDOR	256 SF	Dormitory	150 SF	2								
106	KITCHEN	231 SF	Kitchen	100 SF	3								
106A	STORAGE	18 SF	Storage	500 SF	1								
107	DAY ROOM	275 SF	Dormitory	200 SF	2								
108	DINING ROOM	183 SF	Dormitory	200 SF	1								
109	DETOX	111 SF	Storage	500 SF	1								
110	MECH.	62 SF	Storage	500 SF	1								
113	LAUNDRY	73 SF	Storage	500 SF	1								
114	CORRIDOR	126 SF	Dormitory	200 SF	1								
115	BEDROOM 1	101 SF	Dormitory	200 SF	1								
116	BEDROOM 2	101 SF	Dormitory	200 SF	1								
117	BEDROOM 3	101 SF	Dormitory	200 SF	1								
121	APPARATUS BAY	2463 SF	Storage	500 SF	5								
124	STORAGE	54 SF	Storage	500 SF	1								
125	CORRIDOR	41 SF	Storage	150 SF	1								
Grand total					66								

LIFE SAFET	YLEGEND							
	ONE HOUR RATED PARTITION TO STRUCTURE							
	ONE HOUR RATED CMU PARTITION TO STRUCTURE							
X	SINGLE FACED EXIT SIGN							
	DOUBLE FACED EXIT SIGN WITH ARROWS							
	TRAVEL PATH MAXIMUM TRAVEL PATH FOR SPRINKLERED ASSEMBLY OCCUPANCY = 250'-0" (PER NFPA 101 12.2.6.2)							
F.E.	WALL MOUNTED FIRE EXTINGUISHER							
F.E.C.	SEMI-RECESSED FIRE EXTINGUISHER CABINET							
x	DOOR CAPACITY							
X	ROOM OCCUPANT LOAD							
	NUMBER OF OCCUPANTS USING EXIT DOOR							
TOTAL EXIT V PERSON = 34	VIDTH REQUIRED: 172 OCCUPANTS X 0.2" PER .4"							

TOTAL EXIT WIDTH PROVIDED: (33.25" PER SINGLE DOOR X 5 DOORS) + (66.5" PER DOUBLE DOOR X 4 DOORS) = 432.25"

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© 202 THE A WITH	1 THESE DOCUMENTS REMAIN THE PROPERTY OF RCHITECT AND MAY NOT BE USED OR REPRODUCED OUT WRITTEN PERMISSION.
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• • •	Tower Place Building.
• • •	3340 Peachtree Road, N.E. Suite 1800
• • •	Atlanta, Georgia 30326 404.522.8805
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SITE DEVELOPMENT PLANS FOR FIRE DEPARTMENT 5

PROJECT CONSULTANTS AND CONTACT INFORMATION

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DESIGN BENCHMARK 100% CONSTRUCTION DOCUMENTS DRAWING STATUS NOT FOR CONSTRUCTION



HEARD COUNTY

PROJECT LOCATION

365 JOE STEPHENS ROAD FRANKLIN, GA 30217

CONSTRUCTION ENTRANCE

33.342700 NORTH -84.985220 WEST

PARCEL ID NUMBER

0052 0069

PROJECT TRACT

1.24 ACRES DISTURBED AREA 1.2 ACRES



SITE LOCATION MAP NOT TO SCALE

SITE DESIGN & E	NGINEERING SHEET INDEX
SHEET NUMBER	SHEET TITLE
C 1.0	COVER SHEET
C 2.0	GENERAL NOTES
C 3.0	EXISTING SITE / DEMO PLAN
C 4.0	SITE PLAN
C 5.0	GRADING PLAN
C 5.1	STORM PROFILES
C 6.0	STORMWATER MANAGEMENT PLAN
C 7.0	UTILITY PLAN
C 7.1	UTILITY DETAILS
C 8.0 - C 8.4	
C 9.0 - C 9.5	STANDARD DETAILS
RE	VISION BLOCK
REVISION NUMBER	REVISION DATE & DESCRIPTION
ISSUE 1	01.16.24 - CLIENT REVIEW
ISSUE 2	
ISSUE 3	
ISSUE 4	
ISSUE 5	
ISSUE 6	
ISSUE 7	
ISSUE 8	
ISSUE 9	
ISSUE 10	
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GENERAL PLAN SET NOTES

- THE ENGINEER IS NOT RESPONSIBLE FOR COST CHANGES DURING CONCEPTUAL, PRELIMINARY, OR DESIGN PHASE.
- BIDS & QUOTES SHALL BE BASED ON PLAN SETS LABELED "ISSUE FOR BID" ON THE REVISION BLOCK. BIDS & QUOTES SHALL BE REVISED BASED ON PLANS LABELED "ISSUE FOR CONSTRUCTION" ON THE REVISION BLOCK. IF DISCREPANCIES ARE ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE DEVIATION FROM THIS PLAN SET, THE
- ENGINEER SHOULD BE NOTIFIED FOR UPDATED PLANS AND/ OR FIELD CHANGES.
- THE ENGINEER IS NOT RESPONSIBLE FOR DESIGN OR CONSTRUCTION COST ASSOCIATED WITH FIELD CHANGES OR DEVIATION FROM THIS PLAN SET DUE TO UNFORESEEN SITE CONDITIONS, CLIENT MODIFICATION REQUEST AND/ OR CONTRACTOR CHANGES.
- THE ENGINEER IS NOT RESPONSIBLE FOR THE EFFICACY OF FIELD CHANGES OR DEVIATION FROM THIS PLAN SET IN ANYWAY, UNLESS CHANGES ARE DIRECTED BY THE ENGINEER
- CARTER ENGINEERING 010 COMMERCE DRIVE 30GART, GA 30622 P: 770.725.1200 F: 770.725.1204 ww.carterengineering.cor AGINEER BRIAN KIT GSWCC Level II Certification No. 00000003007 NS 02 പ്പ ר) Ζ ш PME ЧÓ ШΥ Ш ШЩ $\Box \Box$ N is П П П 55 S SHEET TITLE: COVER SHEET NUMBER: C 1.0 PROJECT NUMBER: 23001HCG

01.16.24

- 1. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER A COMPLETE PROJECT, READY TO USE, AND ALL ITEMS NECESSARY FOR A COMPLETE AND WORKABLE JOB SHALL BE FURNISHED AND INSTALLED. ANY DISCREPANCY SHALL BE IMMEDIATELY REPORTED TO THE OWNER OR HIS REPRESENTATIVE.
- NOTIFY THE INSPECTOR OF THE LOCAL GOVERNING AUTHORITY 24 HOURS BEFORE EVERY PHASE OF CONSTRUCTION.
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR, AT HIS EXPENSE, UNLESS ALREADY OBTAINED BY THE OWNER.
- THE CONTRACTOR SHALL COORDINATE LOCATION AND INSTALLATION OF ALL UNDERGROUND UTILITIES AND APPURTENANCES TO MINIMIZE DISTURBING CURBING, PAVING, AND ALL OTHER UTILITIES.
- THE EXISTING UTILITIES SHOWN ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE DRAWINGS. THE UTILITIES SHOWN ARE THOSE LOCATED BY THE SURVEYOR OF RECORD. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATION OF THE UTILITIES SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR CONSENT OF THE ENGINEER AND THE MUNICIPALITY MAY CAUSE FOR THE WORK TO BE UNACCEPTABLE.
- 7. ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE OWNFR 8. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES AROUND THE WORK
- AND SHALL PROVIDE PROTECTION AGAINST WATER DAMAGE AND SOIL EROSION.
- ALL WORK SHALL BE PERFORMED IN A FINISHED AND WORKMANLIKE MANNER TO THE ENTIRE SATISFACTION OF THE OWNER, AND IN ACCORDANCE WITH THE BEST RECOGNIZED TRADE PRACTICES.). THE CONTRACTOR SHALL PROVIDE SHEETING AND SHORING FOR ALL TRENCH CONSTRUCTION IN
- ACCORDANCE WITH OSHA GUIDELINES. 11. ALL PIPE LENGTHS SHOWN ARE TO THE CENTERLINE OF THE STRUCTURES UNLESS SPECIFICALLY NOTED.
- 12. PIPES (STORM AND SANITARY SEWER) SHALL BE LAID ON SMOOTH, CONTINUOUS GRADES WITH NO VISIBLE BENDS AT THE JOINTS
- BEDDING REQUIREMENTS SPECIFIED HEREIN ARE TO BE CONSIDERED AS MINIMUM REQUIRED FOR RELATIVELY DRY STABLE EARTH CONDITIONS. ADDITIONAL BEDDING SHALL BE REQUIRED FOR ROCK TRENCHES TO PROVIDE SUCH ADDITIONAL BEDDING AS REQUIRED TO PROPERLY CONSTRUCT WORK.
- 14. ALL STORM DRAINAGE INLET STRUCTURES SHALL HAVE METAL RING AND COVER FOR ACCESS.
- 15. ALL ANGLES SHOWN ARE 90 DEGREES UNLESS SHOWN OTHERWISE.
- 16. ALL GRADES SHOWN ARE FINISHED GRADES. CONTRACTOR SHALL VERIFY DIMENSIONS, GRADES, AND EXISTING ELEVATIONS PRIOR TO CONSTRUCTION. 17. CONCRETE CURBS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS SHOWN ON PLANS.
- MATERIALS, EQUIPMENT, METHODS OF CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO STATE D.O.T. STANDARD SPECIFICATIONS.
- 18. ALL CONCRETE SHALL HAVE 3000 PSI COMPRESSIVE STRENGTH AFTER 28 DAYS, WITH A MAXIMUM SLUMP OF FOUR (4) INCHES, UNLESS SPECIFIED OTHERWISE.
- 19. ALL EXPOSED CONCRETE SHALL HAVE A FINE HAIR BROOMED FINISH.
-). PARKING AND DRIVEWAY BASE COURSE AND ASPHALTIC CONCRETE SURFACE AND PRIME MATERIALS, EQUIPMENT, METHODS FOR CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO STATE D.O.T. STANDARD SPECIFICATIONS.
- 21. CONTRACTOR TO FIELD VERIFY ALL STORM, SANITARY, WATER AND OTHER UTILITIES LOCATIONS AND INVERTS PRIOR TO INSTALLATION OF ANY UTILITIES. NOTIFY ENGINEER PRIOR TO PROCEEDING WITH ANY WORK IF DISCREPANCIES FOUND.
- 22. THE USE OF CONCRETE THRUST BLOCKS FOR THE INSTALLATION OF WATER MAINS IS STRICTLY PROHIBITED. PRESSURE PIPE FITTINGS AND OTHER ITEMS REQUIRING RESTRAINT SHALL BE RESTRAINED USING METHODS SPECIFIED AND APPROVED BY COUNTY/CITY TECHNICAL STANDARDS, SPECIFICATIONS AND REGULATIONS. THE PREFERRED METHOD OF RESTRAINT IS THROUGH THE USE OF "MEGA-LUGS" OR "MJR" DEVICES.
- 23. ALL DIMENSIONS ARE MEASURED TO THE BACK OF CURB UNLESS OTHERWISE NOTED.

EARTHWORK SPECIFICATIONS

- CLEARING AND GRUBBING
- CLEARING AND GRUBBING SHALL CONSIST OF CLEARING THE SURFACE OF THE GROUND OF THE DESIGNATED AREAS OF ALL TREES, LOGS, SNAGS, BRUSH, UNDERGROWTH, HEAVY GROWTH OF GRASS, WEEDS, FENCE STRUCTURES, DEBRIS AND RUBBISH OF ANY NATURE, NATURAL OBSTRUCTIONS SUCH AS OBJECTIONABLE SOIL MATERIAL UNSATISFACTORY FOR FOUNDATIONS. IT SHALL ALSO CONSIST OF GRUBBING OF STUMPS, ROOTS FOUNDATIONS AND DISPOSAL OF ALL SUCH MATERIAL. ALL HOLES REMAINING AFTER THE GRUBBING OPERATION IN EMBANKMENT AREAS AND IN EXCAVATION AREAS LESS THAN TWO (2) FEET IN DEPTH, SHALL HAVE SIDES BROKEN DOWN AND LEVELED IF NECESSARY TO FLATTEN OUT SLOPES. REFILLED WITH ACCEPTABLE MATERIAL THAT IS PROPERLY COMPACTED IN LAYERS BY TAMPERS, ROLLERS OR CONSTRUCTION EQUIPMENT.
- BURNING ON SITE IS NOT PERMITTED WITHOUT WRITTEN APPROVAL OF THE LOCAL GOVERNING AUTHORITIES HAVING JURISDICTION.
- EXISTING TREES OUTSIDE OF GRADING LIMITS LINE:
- TREES AND VEGETATION TO BE SAVED SHALL BE PROTECTED FROM DAMAGE BY A FENCE BARRICADE PRIOR TO, OR DURING, CLEARING OPERATIONS. TREES TO BE REMOVED FROM THE AREA OUTSIDE THE LIMITS OF GRADING OR FROM SPECIFICALLY DESIGNATED AREAS WITHIN THE CONSTRUCTION AREAS. IF, IN THE OPINION OF THE ENGINEER. A CONTRACTOR DAMAGES A TREE NOT TO BE REMOVED. THE CONTRACTOR WILL BE FINED A PREDETERMINED AMOUNT FOR FACH DAMAGED TREE. THE CONTRACT SHALL ALSO BE RESPONSIBLE FOR ALL COSTS ASSOCIATED IN REMOVING THE DAMAGED TREE FROM THE SITE.
- FILL:
- ALL VEGETATION SUCH AS ROOTS, BRUSH, HEAVY GROWTH OF GRASS, TOPSOIL, ALL DECAYED VEGETABLE MATTER, RUBBISH, AND OTHER UNSUITABLE MATERIAL WITHIN THE AREA UPON WHICH FILL IS TO BE PLACED SHALL BE STRIPPED OR BE OTHERWISE REMOVED BEFORE THE FILL OPERATION IS STARTED. IN NO CASE SHALL UNSUITABLE MATERIAL REMAIN IN OR UNDER THE FILL AREA. SLOPED GROUND SURFACE STEEPER THAN ON VERTICAL TO FOUR HORIZONTAL. ON WHICH FILL IS TO BE PLACED, SHALL BE PLACED, STEPPED OR BENCHED IN SUCH A MANNER THAT THE FILL TO BE PLACED SHALL BE 97 PERCENT OF THE MAXIMUM LABORATORY DRY DENSITY ACCORDING TO STANDARD PROCTOR (AASHTO T99, ASTM D-698). MOISTURE CONTENT SHALL BE WITHIN 3 PERCENT OF THE OPTIMUM MOISTURE CONTENT. PROOF ROLL THE AREAS TO BE FILLED OR ON WHICH STRUCTURES ARE TO BE PLACED. A LOADED DUMP TRUCK OR OTHER RUBBER TIRED EQUIPMENT SHALL BE USED FOR PROOF ROLLING. OVERLAPPING PASSES OF A VEHICLES SHOULD BE MADE ACROSS THE SITE IN ONE DIRECTION AND THEN PERPENDICULAR TO THE ORIGINAL DIRECTION OF ROLLING.
- 2. ANY YIELDING, PUMPING OR SOFT AREAS SHOULD BE CUT OUT AND REPLACED WITH FILL COMPACTED AS DESCRIBED HEREIN.
- GM, GC, SW, SM, SC, ML AND CL. SOIL CLASSIFIED AS PT, OH, OL, CH AND MH ARE NOT SATISFACTORY AS COMPACTED FILL.
- 4. FILLS AND EMBANKMENTS SHALL BE CONSTRUCTED AT THE LACTATIONS AND TO THE LINES AND GRADES INDICATED ON CONSTRUCTION PLANS. THE SLOPE SHALL NOT EXCEED 2 FOOT HORIZONTAL TO 1 FOOT VERTICAL (3 FOOT HORIZONTAL TO 1 FOOT VERTICAL IN THE PUBLIC RIGHT OF WAY). THE COMPLETED FILL SHALL CORRESPOND TO THE SHAPE OF THE TYPICAL SECTIONS INDICATED ON THE CONSTRUCTION PLANS. MATERIAL REMOVED FROM THE EXCAVATION SHALL BE USED IN FORMING THE FILL. FILL MATERIAL SHALL BE REASONABLY FREE FROM ROOTS, OTHER ORGANIC MATERIAL, TRASH AND STONES HAVING MAXIMUM DIMENSIONS GREATER THAN 6 INCHES (4 INCHES IN TRENCHES FOR UTILITIES). NO FROZEN MATERIAL WILL BE PERMITTED IN THE FILL. STONES HAVING A MAXIMUM DIMENSION OF 4 INCHES WILL NOT BE PERMITTED IN THE UPPER SIX INCHES OF FILL OR EMBANKMENT OR UTILITY TRENCH. THE MATERIAL SHALL BE PLACED IN SUCCESSIVE HORIZONTAL LAYERS NOT MORE THAN 8 INCHES THICK. UNLESS OTHERWISE NOTED. IN LOOSE DEPTH FOR THE WIDTH OF THE CROSS-SECTION AND SHALL BE COMPACTED TO AT LEAST 97 PERCENT OF THE MAXIMUM LABORATORY DRY DENSITY ACCORDING TO STANDARD PROCTOR (ASTM D-698, AASHTO T-99). MOISTURE SHALL BE WITHIN 3 PERCENT OF THE OPTIMUM MOISTURE CONTENT. THE TOP 12 INCHES OF THE PAVING, PARKING AND/OR ROADWAY SUB-GRADE SHALL BE COMPACTED TO 97 PERCENT OF THE MAXIMUM DRY DENSITY (STANDARD PROCTOR). EACH LIFT SHALL BE ROLLED WITH A VIBRATORY ROLLER, A SHEEPSFOOT ROLLER, OR A LOADED RUBBER TIRED DUMP TRUCK, SCRAPER OR LOADER. IF THE SOIL IS TOO DRY, A WATER TRUCK WITH SPREADER BAR OR SPRAY HOSE SHALL BE USED TO BRING THE SOIL TO THE PROPER MOISTURE RANGE. THE WATER SHALL BE THOROUGHLY AND PROPERLY MIXED WITH THE SOIL PRIOR TO COMPACTION.
- STORM DRAIN PIPES SHALL BE PLACED ON FIRM BOTTOM AND HAND TAMPED TO SAFE UP THE PIPE. A CUSHION OF SOIL SHALL BE TAMPED ABOVE THE CROWN OF THE PIPE IN ACCORDANCE WITH THE PIPE MANUFACTURER'S RECOMMENDATIONS SO THAT THE HEAVIER COMPACTION EQUIPMENT CAN THEN BE USED TO BRING THE SOIL TO A DENSITY AS DESCRIBED ABOVE FOR FILL AREAS.
- 6. IF SOILS INVESTIGATION REPORT IS PROVIDED, THEN FOLLOW THE RECOMMENDATIONS OF THE REPORT IF THEY EXCEED THE RECOMMENDATIONS OF THESE SPECIFICATIONS. TOPSOIL:
- UNLESS OTHERWISE SPECIFIED, AREAS DESIGNATED FOR GRADING OPERATIONS THAT CONTAIN A BLANKET OF TOPSOIL SHALL BE STRIPPED AND PLACED IN CONVENIENT STOCKPILES FOR LATER USE AS A TOPSOIL BLANKET ON THE NEW GRADED AREAS SPECIFIED HEREIN, OR AS DESIGNATED. TOPSOIL SHALL BE STRIPPED FROM ALL AREAS DESIGNATED TO RECEIVE FILL. THE STRIPPING OF MATERIAL FOR TOPSOIL SHALL BE CAREFULLY DETERMINED AND ONLY THE QUANTITY REQUIRED SHALL BE STOCKPILED. MATERIAL STOCKPILED SHALL BE STORED IN A SATISFACTORY MANNER TO AFFORD PROPER DRAINAGE. WHEN GRADING OPERATIONS PERMIT, INSTEAD OF STOCKPILING, THE TOPSOIL SHALL BE HAULED AND SPREAD DIRECTLY ON THE AREAS DESIGNATED TO RECEIVE TOPSOIL.
- ROCK EXCAVATION:
- 1. IF ROCK IS ENCOUNTERED, CLEAR AWAY EARTH TO EXPOSE MATERIAL. NOTIFY OWNER AND RECEIVE WRITTEN INSTRUCTIONS PRIOR TO EXCAVATION, REMOVE ROCK TO A DEPTH OF 6 INCHES BELOW AND 8 INCHES ON EACH SIDE OF PIPES IN TRENCHES. A MEASUREMENT OF EXTENT OF ROCK TO BE REMOVED SHALL BE MADE. ROCK EXCAVATION SHALL BE PAID FOR IN ACCORDANCE WITH AGREEMENT WITH THE OWNER.

DEMOLITION NOTES

- EXISTING STRUCTURES & FACILITIES:
- 1. THE LOCATIONS OF ALL EXISTING FACILITIES SHOWN ON THIS PLAN HAVE BEEN BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF TH ENGINEER / LANDSCAPE ARCHITECT ASSUMES NO RESPONSIBILITY FOR THEIR A START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UT ON-SITE LOCATIONS OF EXISTING UTILITIES.
- 2. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, SUPERVISION AND E FOR THE ORDERLY DEMOLITION AND REMOVAL OF EXISTING STRUCTURES, PAVI SHOWN ON THE DRAWINGS AND DESCRIBED HEREIN.
- 3. THE CONTRACTOR IS REQUIRED TO FAMILIARIZE HIM/HERSELF WITH THE STRUC DEMOLISHED, A BRIEF DESCRIPTION OF THE STRUCTURES PROPOSED TO BE INS DEMOLISHED ARE INCLUDED FOR THE CONTRACTOR'S CONVENIENCE ONLY.
- 4. THE FOLLOWING LIST OF STRUCTURES REQUIRING DEMOLITION IS INCLUDED FO CONVENIENCE ONLY. THE DRAWINGS INDICATE THE SCOPE OF THE DEMOLITIO REQUIRED (SEE CORRESPONDING PLANS):
- 4.1. DEMOLITION AND REMOVAL OF EXISTING ON-SITE ASPHALT, CONCRETE, PA LIMITS OF DISTURBANCE/DEMOLITION AS SHOWN ON THE CORRESPONDIN TO VERIFY AND COORDINATE ANY DISCREPANCIES AND/OR CONCERNS WIT ENGINEER/LANDSCAPE ARCHITECT ACCORDINGLY.
- 5. ALL ON-SITE UNDERGROUND STRUCTURES AND PIPING MUST BE COMPLETELY OVER-EXCAVATED BY A MINIMUM OF 12" BENEATH THE STRUCTURES. CONTRAC APPROVED FILLING MATERIAL FOR FILLING THESE AREAS. FILL SHALL BE CLEAN PASSING THE #200 SIEVE, PLASTICITY INDEX LESS THAN 10, WITH MAXIMUM PAR INCHES, AND SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8 INCHES IN TH
- COMPACTED TO AT LEAST 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DE 6. ALL EXISTING STRUCTURES, PAVEMENTS, SLABS, FOUNDATIONS, STEPS AND OT INDICATED ON THE DRAWINGS TO BE REMOVED SHALL BE DEMOLISHED AND RE CONTRACTOR. REMOVE NO STRUCTURE SUBSTANTIALLY AS A WHOLE. DEMOLIS PREMISES
- 7. ALL EXISTING SEWERS, PIPING, UTILITIES SHOWN ARE NOT TO BE INTERPRETED A OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. CONTRACTOR SH CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATU SHALL GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION ANI SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK.
- 8. CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR PERSON AND PRO OR SHE SHALL EXECUTE THE WORK IN A MANNER THAT AVOIDS HAZARDS TO PE AND THAT PREVENTS INTERFERENCE WITH THE USE AND ACCESS TO ADJACENT AND ADJACENT STREETS. STREETS AND SIDEWALKS SHALL NOT BE BLOCKED B FOUIPMENT
- 9. CONTRACTOR MUST STOP OPERATION AND NOTIFY THE OWNER FOR PROPER I ENVIRONMENTAL OR HEALTH RELATED CONTAMINATE IS ENCOUNTERED DURIN AND/OR EXCAVATION PROCESS.
- DISPOSAL:
- 10. REMOVE AND LEGALLY DISPOSE OF ALL OTHER RUBBISH, RUBBLE, AND DEBRIS. ALL REFUSE AND MISCELLANEOUS ITEMS TO BE REMOVED, THAT ARE NOT TO BE STOCKPILED FOR LATER USE ON THE PROJECT OR DELIVERED TO THE OWNER, SHALL BE LEGALLY DIPOSED OF OFF-SITE BY THE CONTRACTOR IN ACCORDANCE WITH ANY AND ALL APPLICABLE LAWS, STANDARDS, AND REGULATIONS SET FORTH BY LOCAL, STATE, AND FEDERAL OFFICIALS THAT GOVERN THE DISPOSAL OF WASTE AND DEBRIS.
- PAVEMENT REMOVAL:
- 11. WHERE EXISTING PAVEMENT IS TO BE REMOVED, CONTRACTOR SHALL SAW-CUT THE SURFACING LEAVING A UNIFORM AND STRAIGHT EDGE WITH THE MINIMAL DISTURBANCE POSSIBLE TO THE REMAINING ADJACENT SURFACING. IF CONSTRUCTION RESULTS IN RAVELING OF THE SAW-CUT SURFACE, RECUT BACK FROM THE RAVELED EDGE PRIOR TO RESTORATION.
- 12. WHERE EXISTING PAVEMENT, CURB, CURB AND GUTTER, SIDEWALK, DRIVEWAY OR VALLEY GUTTER IS TO BE REMOVED FOR THE PURPOSE OF CONSTRUCTION OR REMOVING BOX CULVERTS, PIPE, INLETS, MANHOLES, APPURTENANCES, FACILITIES OR STRUCTURES, SAID PAVEMENT, ETC., THE SAID OR PROPOSED STRUCTURE SHALL BE REPLACED AND RESTORED IN EQUAL OR BETTER CONDITION THAN THE ORIGINAL. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, MATERIALS, EQUIPMENT, TOOLS, SUPPLIES, AND ANY OTHER NECESSARY EQUIPMENT AS REQUIRED BY PROJECT AND SITE REQUIREMENTS.
- ACCESS:
- 13. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING PROPERTIES AT ALL TIMES DURING THE DEMOLITION PROCESS OF THE EXISTING FACILITIES AND SITE.

PERMITTING:

- 14. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY REQUIRED PERMITTING FOR DEMOLITION WITH ALL REQUIREMENTS PRIOR TO COMMENCING OF DEMOTION WORK.
- 15. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE EXTENT OF DEMOLITION REQUIRED IN ORDER TO PERFORM THE CONTRACT WORK FOR THIS PROJECT. THE CONTRACTOR SHALL CONDUCT SITE VISITS AND SHALL EXAMINE ALL OF THE INFORMATION WITHIN THESE DOCUMENTS AND ALL DISCREPANCIES AND/OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LEAD ENGINEER/ARCHITECT PRIOR TO BID SUBMITTAL.
- 16. CONTRACTOR SHALL LIMIT ALL DEMOLITION ACTIVITY TO THAT AREA DELINEATED IN THE DRAWING AND APPROVED BY OFFICIALS.
- 17. ALL OTHER EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO STORM DRAINAGE, GAS, ELECTRIC, TELEPHONE, AND WATER & SEWER SHALL BE PRESERVED AND PROTECTED AT ALL TIMES AS NEEDED AND AS REQUIRED.

STAKING AND SURVEYING NOTES

- STAKING:
- 1. THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION STAKING AND CONSTRUCTION ACTIVITIES BASED ON THE LATEST APPROVED DESIGN PLANS AND/OR DESIGN FILE(S) AS PROVIDED AND AS WARRANTED BY CLIENT AND PROJECT NEEDS.
- 2. PRIOR TO COMMENCING CONSTRUCTION STAKING OR CONSTRUCTION ACTIVITIES, THE CONTRACTOR AND/OR STAKING SURVEYOR SHALL CONFIRM WITH THE PROJECT LEAD ENGINEER/ARCHITECT, WHO'S RESPONSIBLE FOR THIS PROJECT, THAT THE LATEST PLANS AND/OR DESIGN FILE(S) ARE BEING UTILIZED.
- 3. THE ENGINEER/LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR OWNERS, CONTRACTORS OR SURVEYORS STAKING OR PERFORMING CONSTRUCTION ACTIVITIES BASED ON OUT-OF-DATE DESIGN PLANS AND/OR DESIGN FILES.
- 4. CONSTRUCTION STAKING SHALL ADHERE TO THE HORIZONTAL AND VERTICAL DATUM LISTED IN THIS CONSTRUCTION SET AND AS PROVIDED IN THE CORRESPONDING FILES, NOTES, AND/OR DRAWINGS.

TOLERANCES & DISCREPANCIES:

- 5. IF, DURING CONSTRUCTION STAKING OR CONSTRUCTION ACTIVITIES, SURVEY DISCREPANCIES ARE ENCOUNTERED WITH REGARD TO THE DESIGN PLANS OR DESIGN FILE, WORK SHOULD CEASE AND THE LEAD ENGINEER/LANDSCAPE ARCHITECT SHOULD BE NOTIFIED IMMEDIATELY TO RESOLVE THE ISSUE OR ISSUES. THE ENGINEER / LANDSCAPE ARCHITECT CAN NOT BE HELD RESPONSIBLE OR LIABLE FOR ISSUES THAT THEY HAVE NOT RECEIVED NOTIFICATION.
- 6. THE CONSTRUCTION TOLERANCES SHOWN IN THE CORRESPONDING DRAWINGS, NOTES, AND/OR FILES, IN GENERAL, REPRESENT INDUSTRY STANDARDS. HOWEVER, EXCEPTIONS CAN BE MADE IF IT DETERMINED THAT CERTAIN DEVIATED CONSTRUCTION ACTIVITIES DO NOT ADVERSELY AFFECT THE DESIGN REQUIREMENTS OR FUNCTIONALITY. THE LEAD ENGINEER/LANDSCAPE ARCHITECT WILL EVALUATE CONSTRUCTION ACTIVITIES THAT DEVIATE FROM THE DESIGN PLANS ON A CASE-BY-CASE BASIS. IF IT IS DETERMINED THAT THE CERTAIN DEVIATED CONSTRUCTION ACTIVITIES DO ADVERSELY AFFECT THE DESIGN REQUIREMENTS, FUNCTIONALITY, AND INTENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING OR REPAIRING ALL ITEMS TO THE PLANS AND SPECIFICATIONS AS DETERMINED AND REQUIRED BY DESIGN PROFESSIONAL, AT THE CONTRACTOR'S EXPENSE.

CIVIL ENGINEERING DESIGN TOLERANCES FOR PROJECT:

GENERAL GRADING:	±0.10 FEET	RETAINING WALLS:
ALL PIPE/CONDUITS:	±0.05 FEET	SITE FEATURES (SPO
DRAINAGE STRUCTURES:	±0.05 FEET	UTILITY ELEVATION
SANITARY SEWER STRUCTURES:	±0.05 FEET	EROSION CONTRO
STORMWATER POND FEATURES:	±0.05 FEET	

AS-BUILT & SPECIFICATIONS:

- 7. THE ENGINEER/LANDSCAPE ARCHITECT SHOULD BE PROVIDED WITH AN AS-BUILT SURVEY OF THE PROJECT FOR REVIEW AND APPROVAL AFTER THE PROJECT IS COMPLETE. CONTRACTOR IS RESPONSIBLE FOR COORDINATING EFFORTS WITH DESIGN PROFESSIONAL
- 8. SEE THE PROJECT SPECIFICATIONS FOR ADDITIONAL SITE SPECIFIC REQUIREMENTS REGARDING CONSTRUCTION, MATERIALS, TESTING, AND CERTIFICATIONS.

- THE PROPOSED FILL SHOULD BE LIMITED TO SOILS CLASSIFIED IN ACCORDANCE WITH ASTM D-2487 AS

	PROJECT GEOGRAP	HICAL INFORMATION
	PROJECT PROJECTI	ON & DATUM:
N DETERMINED FROM THE IE CONTRACTOR. THE ACCURACY. PRIOR TO THE	HORIZONTAL DATUM: VERTICAL DATUM:	NAD83 GEORGIA STATE PLANES, WEST ZONE, US FOOT NORTH AMERICAL VERTICAL DATUM OF 1988 (NAVD88)
TILITY COMPANIES FOR	BOUNDARY SURVEY	
EQUIPMENT REQUIRED /EMENT, AND UTILITIES AS	SURVEYOR NAME: DATE OF SURVEY: TRACT OR PARCEL:	HENRY T. MCBRAYER, GA RLS #2570 02.10.23 *
TURES TO BE STALLED AND	HORIZONTAL DATUM: VERTICAL DATUM:	NAD83 GEORGIA STATE PLANES, WEST ZONE, US FOOT NORTH AMERICA VERTICAL DATUM OF 1988 (NAVD88)
OR THE CONTRACTOR'S ON WHERE DEMOLITION IS	TOPOGRAPHIC SUR	VEY:
AVING, AND CURBING TO	SURVEYOR NAME: DATE OF SURVEY: TRACT OR PARCEL:	HENRY T. MCBRAYER, GA RLS #2570 02.10.23 *
NG PLANS. CONTRACTOR ITH	HORIZONTAL DATUM: VERTICAL DATUM:	NAD83 GEORGIA STATE PLANES, WEST ZONE, US FOOT NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
REMOVED AND CTOR SHALL USE	GEOGRAPHICAL INF	ORMATION SYSTEMS (GIS) DATA UTILIZED:
WITH LESS THAN 50% RTICLE SIZE OF 1.25 HICKNESS AND NSITY (AASHTO T99).	TOPOGRAPHIC DATA: PARCEL DATA: ADDITIONAL DATA:	FIELD RUN SURVEY FIELD RUN SURVEY HEARD COUNTY GIS DATA
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DPERTY AT ALL TIMES. HE ERSONS AND PROPERTY T PROPERTIES, BUILDINGS, Y DEBRIS AND		
DIRECTION IF ANY NG THE DEMOLITION		

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DRAWING SET PREPARE CARTER ENGINEERING (1010 COMMERCE DRIVE BOGART, GA 30622 CONTACT: BRIAN KIMSE PHONE: 770.725.1200 BRIAN@CARTERENGINE	D BY: CONSULTANTS, INC. EY, P.E. ERING.COM	OWNEF HEARD COUN COM 201 F FRANKI CONTACT: FE FELICIAADAMS@HEARDCOU	R/DEVELOPER: TY BOARD OF MMISSIONERS PARK AVENUE LIN, GA 30217 ELICIA ADAMS 706-675-3821 JNTYGA.COM		GSV	VCC Lev		KING KING KING KING KING KING KING KING	- Dn
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UNDERGROUND UTILITY THE UNDERGROUND UTI INFORMATION AND/OR WARRANT THAT THE UN THE AREA, EITHER IN SE WARRANT THAT THE UN INDICATED. THE OWNEL SHALL HEREBY DISTINCT RESPONSIBLE FOR THE OR REGARDING THE UNDER UNDERGROUND UTILITI CONTRACTOR TO FIELD NOTIFY ENGINEER IF A D VERIFY THE INVERT ELEN STRUCTURES PRIOR TO CONSTRUCTION.	Ó DISCLAIMER: TILITIES SHOWN HEREC EXISTING DRAWINGS. JDERGROUND UTILITIE RVICE OR ABANDONEI IDERGROUND UTILITIE R, HIS/HER EMPLOYEES TLY UNDERSTAND THA CORRECTNESS OR SUF RGROUND UTILITIES AN ES SHOWN HEREON. IT DICCATE ALL UTILITIES DISCREPANCY IS FOUN (ATIONS OF ALL EXISTI COMMENCEMENT OF	IN HAVE BEEN LOCATED FROM CARTER ENGINEERING DOES N S SHOWN COMPRISE ALL SUCH D. CARTER ENGINEERING DOES S SHOWN ARE IN THE EXACT LO , CONSULTANTS AND CONTRA T THE CARTER ENGINEERING IS FICIENCY OF THIS INFORMATIC ID STRUCTURES RELATED TO TIS THE RESPONSIBILITY OF THE PRIOR TO COMMENCING WOF D. SPECIFICALLY, THE CONTRA NG STORM AND SANITARY SEV STORM AND SANITARY SEVER	1 FIELD NOT 1 UTILITIES IN 5 NOT OCATION ACTORS 5 NOT DN E RK AND ACTOR SHALL WER		SITE DEVELOPMENT PLANS	FOR	ELRE DEPARTMENT 5	365 JOE STEPHENS ROAD - FRANKLIN, GA 30217	
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	Stormwater Summary Table - 25-Year Design Frequency														
Line ID	Line Size	Line Length	Invert Dn	Invert Up	Line Slope	HGL Dn	HGL Up	Inlet ID	Incr Q (CIA)	Flow Rate	Velocity (Downstream)	Drainage Area	Runoff Coefficient	Inlet Time of Concentration	Pipe Manning's n
	(in)	(ft)	(ft)	(ft)	(%)	(ft)	(ft)		(cfs)	(cfs)	(ft/s)	(ac)	(C)	(min)	
Pipe No. 1.1	18	38.57	825.50	826.00	1.30	825.89	826.52	1.1	0.68	1.91	5.24	0.09	0.81	5.00	0.012
Pipe No. 1.2	18	38.11	828.00	829.50	3.94	828.25	829.93	1.2	1.34	1.34	7.00	0.48	0.30	5.00	0.012
Pipe No. 2.1	18	21.77	825.50	826.00	2.30	825.83	826.52	2.1	1.47	1.88	6.39	0.18	0.88	5.00	0.012
Pipe No. 2.2	12	80.54	830.00	831.67	2.07	830.24	832.02	22.5°	0.00	0.71	4.85	0.00	0.00	0.00	0.012
Pipe No. 2.2.1	12	80.00	831.67	833.32	2.06	832.02	833.69	90°	0.00	0.77	3.12	0.00	0.00	0.00	0.012
Pipe No. 2.2.2	12	32.92	833.32	834.00	2.07	833.69	834.37	co	0.80	0.80	3.06	0.09	0.95	5.00	0.012



STORM NETWORK 1 SCALE: 1" = 10' H, 1" = 10' V

> Station <u>STORM NETWORK 2</u> SCALE: 1" = 10' H, 1" = 10' V

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PIPE NAME:	SIZE	LENG			
1.2	18" Ø	38.1			
1.1	38.5				
2.2.3	12" Ø	32.92			

 2.2.3
 12" Ø
 32.92'

 2.2.2
 12" Ø
 80.00'

 2.2.1
 12" Ø
 80.54'

 2.1
 18" Ø
 21.77'

	6	7 7	8
ALX ALX MSE		DN	
R IG IVE		G	8
	365 JOE STEPHENS ROAD - FRANKLIN, GA 30217		
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C T) Y		
			365 JOE STEPHENS ROAD - FRANKLIN, GA 30217

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STORMSEWER STRUCTURE TABLE STORM NETWORK							
[DETAILS:	STRUCTURE HEIGHT:	[STRUCT DESCRIP	URE TION:		
RIN DUT = 8	// / F.L. = 0.97' 334.00' (PIPE NO. 2.2.3)	6.00'	ST STRI	RUCTURE S	SIZE = 6" PE: 6" C.O.		
RIM / IN = 8	/ F.L. = 827.63' 25.50' (PIPE NO. 1.1)	4.14'	STI STI	RUCTURE S RUCTURE T	SIZE = 18" YPE: HW		
RIM / IN = 8 OUT =	/ F.L. = 831.65' 28.00' (PIPE NO. 1.2) 826.00' (PIPE NO. 1.1)	5.65'	STI STRI	RUCTURE S UCTURE TY	IZE = 48" PE: SWCB		
RIM OUT =	/ F.L. = 831.63' 829.50' (PIPE NO. 1.2)	4.63'	STI STI	RUCTURE S RUCTURE T	SIZE = 18" YPE: HW		
RIM / IN = 8	/ F.L. = 827.84' 25.50' (PIPE NO. 2.1)	4.50'	STRUCTURE SIZE = 18" STRUCTURE TYPE: HW				
RIM IN = 83 OUT =	/ F.L. = 836.00' 30.00' (PIPE NO. 2.2.1) 826.00' (PIPE NO. 2.1)	10.00'	STRUCTURE SIZE = 48" STRUCTURE TYPE: SWCB				
	STORMSEWEI STORM N	R PIPE TABL ETWORK	E				
GTH	I.E. (DOWN)	I.E. (UF	P)	SLOPE	MATERIAL		
11'	828.00' (STR: 1.1)	829.50' (STF	R: 1.2)	3.94%	HDPE		
57'	825.50' (STR: 1.0)	826.00' (STF	R: 1.1)	1.30%	HDPE		
92'	833.32' (STR: 90 DEG)	834.00' (STR	: C.O.)	2.07%	HDPE		
00'	831.67' (STR: 22.5 DEG) 833.32' (STR: 9	90 DEG)	2.07%	HDPE		
54'	830.00' (STR: 2.1)	831.67' (STR: 22	2.5 DEG)	2.07%	HDPE		
77'	825.50' (STR: 2.0)	826.00' (STF	R: 2.1)	2.30%	HDPE		





COUNTY:	HEARD	DATE: JANUARY 09, 2024
OWNER:	HEARD COUNTY BOC	PHONE NUMBER: -
SITE ADDRESS	: 365 JOE STEPHENS RD.	GMD: LAND LOT 202, DISTRICT 3
SUBDIVISION:	N/A	LOT NUMBER(S): -
INTENSITY LE	VEL OF INVESTIGATION:	LEVEL 3

SUITABILITY CODE DESCRIPTIONS								
CODE	EXPLANAT							
Α	These soils are suitable for installation of on-site systems wit maintenance. Position of the site or other soil and landscape of greater than the minimum and/or the drainfield design to requ							
Н	These soils have bedrock limitations and are not suitable for is special design or installation. Properties of the soil and site m minimum and/or the drainfield design to require equal distrib system design and installation must be approved by the local							
N	Because of soft bedrock at a shallow depth, these soils typica on-site system. Hydraulic properties of the rock vary, however rate suitable for on-site system installation. Intensive investig the rock and site suitability. On-site system installation before system can be properly installed. Properties of the soil and site the minimum and/or the drainfield design to require equal dis system design and installation must be approved by the local							

SOIL SERIES	SLOPE % Ranges of soil	6 DEPTH TO BEDROCK OR HARD SAPROLITE 0il (inches) DEPTH TO SEASONAL HIGH WATER TABLE (inches) MBEDROCK OR SEASONAL HIGH WATER TABLE (inches) (inches)		ABSORPTION RATE AT RECOMMENDED TRENCH DEPTH (min/inch)	RECOMMENDED TRENCH DEPTH	SUITABILITY CODE
	type	(inches)	(inches)	(min/inch)	(inches)	Descriptions below
BETHLEHEM	5-15%	54-60	> 72	65	24-36	N
SAW	5-15%	36-40	> 72	SEE CODE	SEE CODE	Н
APPLING	2-10%	> 72	> 72	75	30-48	A









_30° 0° -30°

CROSS-SECTION VIEW

EACH SECTION OF PIPE TO DENOTE THE TOP.

PIPING

FOUR INCHES.

THE LENGTH OF THE PIPE.



	_				_														
		ONSIT	E SEW PU	AGE MA	ANAGEM CALCULATIC	ENT SY	STEM												
rmation 1/16/2024					SYSTEM TYPE:	Convention	nal System												
Heard County 365 Joe Stephens R	oad																		
atic Lift			PUN	/IP HYDR	AULIC DES	SIGN													
								(ft	Total Ho	e adloss (psi)	-								
ired By Pump + 5ft								10)	4.3	=		7						
ajor Friction Loss			Г - -			1			Total He	eadloss			RIPTION	3					
Nominal Size (in) 2	Pipe Material Sch 40 PVC	Length (ft)	Q (gpm) 34	Velocity (fps)	Headloss / 100 L.F. (psi)	Headloss , 100 L.F. (ft) 2.05	/ Total Headloss (ft) 0.47	(π	5	(psi) 0.2			DATE & DESC	CLIENT REVIE					
N/A N/A				0101				0.0	0 0	0.0 0.0		×		6.24 - C					
N/A N/A								0.0 0.0	0 0	0.0 0.0		N BLOC	REV	01.1					_
							Subt	otal <u>0.</u>	5	0.2		REVISIO	ISSUE	-	~ ~	4	2	9 2	. o
inor Friction Loss								(ft	Total H	eadloss (psi)		F							
10% of Section A &	В						Method 1 Subtot	tal <u> </u>	0	0.5					0	R			
Fitting Equalivalent	Length	Г	From Eq. L	Length Table	٦									6	REGI	5 T E Â	R'Y		
Fitting Type	Fitting Size (in)	Number of Fittings	Equalival (lent Length (ft)	Headloss / 100 L.F.	Headloss 100 L.F.	/ Total Headloss						() 7	Q		26703 ESSION	Ľ	3	
Check Valve 45 Fitting	2 2	1 1	1	17.2 2.58	(psi) 0.89 0.89	(ft) 2.05 2.05	(ft) 0.4 0.1	0.4 0.1	4 1	0.2 0.0			//	Ŷ	BRIA	INEE N KI	R MSE		
N/A N/A							0.0 0.0	0.0	0	0.0 0.0			C	SW(CC Lev	el II C	ertific	ation 7	
N/A							 Method 2 Subtot	al 0.4	4	0.0		\vdash			0.000	0000			
Loss shall be the gre	eater of Metho	d 1 & Method 2	2				Method 1 Subtot	al 1.0	0	0.5									
essure at Outlet									Total H	eadloss									
ure @ Outlet =	1.0	psi						(ft 0.4	:) 4	(psi) 1.0								-	
tal Dynamic Head		F							<u>.</u>					-					
								(ft))	e adloss (psi)									
25									.0 5	4.3 0.2						7			D
Outlet								1.1 0.4	4	1.0			E	N G	 	EE	RI	n G	;
							Total Dynamic He	ead <u>12</u> .	.0	6.0			CART	ER E	NGINI	EERIN	G		
np Selection	ent:	P	ump Mode	2	Operatir	ng Point	1					1 B	010 (SOGA	COM RT,	MERC GA 30	CE DR 622	IVE		
		Zoeller M	odel 53 Sur	mp Pump	TDH 12.0	GPM 28.2						P F	2: 770 : 770	.725 .725	.1200 .1204	_			
		Pump	o Per	form	ance (Curve	s					v	vww.	carte	rengir	ieerin	g.cor	n	
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				IP PERFOR MODELS 5:	MANCE CUF 3°/55/57/59	WE:							2	~			1	717	
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HEARD

COUNTY

C 7.1

23001HCG

SHEET NUMBER:

PROJECT NUMBER:

DATE:

#4 24 HOUR CONTACT	RECOMMENDATIONS.
FELICIA ADAMS: 706-675-3821	WASH WATER ONSITE AT THE SPECIFIED LOCATION.
#5 PRIMARY PERMITTEE	FERTILIZER/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RA OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHME
201 PARK AVENUE FRANKLIN, GA 30217	BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIA
PHONE: 706-675-3821 EMAIL: FELICIAADAMS@HEARDCOUNTYGA.COM	WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.
#6 PROJECT AREA	SPILL CLEANUP AND CONTROL PRACTICES
TOTAL SITE AREA:1.24 ACRESTOTAL DISTURBED AREA1.2 ACRES	LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED ME PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNE
#7 CONSTRUCTION EXIST LOCATION	MATERIAL AND EQUIPMENT, NECESSARY OF SPILL CLEANUF AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROC SAMULIST AND PROPERTY LARELED PLASTIC AND METAL WI
LONGITUDE: -84.985220 WEST LATITUDE: 33.342700 NORTH	 SPLIT PREVENTION PRACTICES AND PROCEDURES WILL BE F FUTURE SPILLS.
#9 DESCRIPTION OF THE CONSTRUCTION ACTIVITY	ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCO AND FEDERAL REGULATIONS.
THE EXISTING SITE CONSISTS OF AN ABANDONED GAS STATION FACILITY. THE PROJECT INCLUDES THE CONSTRUCTION AND INSTALLATION OF A FIRE STATION WITH ALL DRIVEWAYS AND UTILITIES REQUIRED.	 FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN BE CONTACTED WITHIN 24 HOURS AT 1 - 800 - 424 - 8802. FOR SPILLS OF AN LINKNOWN AMOUNT. THE NATIONAL CE
#11 PROJECT RECEIVING WATERS	 FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CE 8802. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE
THE RECEIVING WATERS OF THIS PROJECT ARE AN UNNAMED TRIBUTARY TO HILLY MILL CREEK	HOURS.
#12 SITE VISIT CERTIFICATION	-FOR SPILLS LESS THAT 25 GALLONS AND NO SURFACE WATER IMP CONTACTED AS REQUIRED.
I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.	THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL W STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT).THE
Q. Bus King 01.16.24	COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESS
BRIAN KIMSEY, P.E. DATE P.E. #26703	ALL DISTURBED AREAS WILL BE PERMANENTLY STABILIZED ONCE C
E&SC CERTIFICATION NUMBER 00000003007	IMPERVIOUS AREAS ON SITE WILL FLOW TO THE PROPOSED INLETS A HYDRODYNAMIC SEPARATOR HAS BEEN PROPOSED FOR THE SIT
#13 SOIL & EROSION CONTROL BMP CERTIFICATION	#27 COVER FOR BUILDING MATERIALS
I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION	THE CONTRACTOR SHALL LOCATE ALL BUILDING MATERIALS, BUILT MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, S.
AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND	STORMWATER RUNOFF. IN ADDITION, THE CONTRACTOR SHALL PP PLASTIC SHEETING OR A TEMPORARY ROOF THROUGHOUT THE DU
SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST	#28 STORM WATER POLLUTION BMPS
MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO GAR 100001."	POTENTIAL SOURCES OF STORM WATER POLLUTION INCLUDE: SED CONSTRUCTION TRASH FROM CONSTRUCTION WORKERS AND EQ
O. Brios King 01.16.24	CONSTRUCTION EQUIPMENT. THE PROPOSED TEMPORARY SEDIME STORMWATER DISCHARGES DURING CONSTRUCTION. NO ADVERS
BRIAN KIMSEY, P.E. DATE	
E&SC CERTIFICATION NUMBER 00000003007	
#14 CERTIFY INSPECTION	
THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN 7 DAYS AFTER INSTALLATION.	
#15 NON-EXEMPT ACTIVITIES	
NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION, OR WITHIN 25-FFET OF THE COASTAL MARSHLAND BUFFERS AS MEASURED FORM THE JURISDICTIONAL	CONSTRUCTION EXIT AND PERIMETER SILT FENC
DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS	DEMO ROUGH GRADING
#16 BUFFER ENCROACHMENT	TEMPORARY STABILIZATION (GRASSING)
#17 AMENDMENT/REVISION STATEMENT	FINAL STABILIZATION
AMENDMENTS/ REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST	
#18 WASTE MATERIAL STATEMENT	FINAL LANDSCAPING, GRASSING, CLEANING O DISPOSITION OF TEMPORARY SEDIMENT CONTR START DATE: MARCH 1ST 2024
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AMERGANEND REVELOADS TO THE EASE, PLAN WHICH HAVE A SIGNIFICANI EFFECTIONE MEN'S WITH A HIDROULD COMPARENT MODI SECRETIFIED STITUE DESIGN PROSESSION. IT IN CASE MATERIAL STATUENTS WASTE MATERIAL STATUENTS WASTE MATERIAL STATUENTS WASTE MATERIAL STATUENTS ALL VASTE MATER	 IHAAL LANDSCAPING, GRASSING, CLEANING OLEANING OLEANI

WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS. PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE

PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND

E ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM

ED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS ABLISHMENT OR IN THE GSWCG MANUAL FOR EROSION AND SEDIMENT ALS WILL BE UNDER ROOF IN SEALED CONTAINERS. MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL

NDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND

ERSONNEL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS O, BROOMS, DUSTPANS, MAPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, METAL WASTE CONTAINERS. WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT ON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE A SHEEN ON SURFACE WATER). THE NATIONAL RESPONSE CENTER (NRC) WILL ONAL CENTER (NRC) WILL BE CONTACTED WITH 24 HOURS AT 1 - 800 - 424 -SURFACE WATER IMPACTS. THE GEORGIA EPD WILL BE CONTACTED WITHIN 24

ATER IMPACTS. THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE

SIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF OIL IS ENT). THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND PROFESSIONAL.

NPLETED

ONCE CONSTRUCTION ACTIVITY IS COMPLETED. ALL RUNOFF FROM THE ED INLETS AND BE CAPTURED WITHIN THE UNDERGROUND DETENTION SYSTEM. R THE SITE FOR POLLUTANT CONTROL.

ALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE GENTS, SANITARY WASTES, AND OTHER MATERIALS IN A LOCATION FREE FROM SHALL PROTECT THESE MATERIALS FROM PRECIPITATION BY COVERING WITH T THE DURATION OF THE CONSTRUCTION PERIOD.

UDE: SEDIMENT DISPLACEMENT FROM EARTHWORK AND EROSION, AND EQUIPMENT LEAKAGE / SPILLAGE OF FUEL, OIL, AND FLUIDS FROM Y SEDIMENT TRAPS AND SILT FENCE WILL REDUCE POLLUTANTS IN ADVERSE IMPACTS ARE EXPECTED DUE TO THE NATURE OF THIS



ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED TEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE SED. OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND RY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR HESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF

JRBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE ATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL POSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS

ARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY JRS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING IDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF THE PRIMARY SED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE RAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE DCATIONS OR POINTS ARE ACCESSIBLE. THEY SHALL BE INSPECTED TO SURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING DERGONE FINAL STABILIZATION OR ESTABLISHED CROP OF ANNUAL NNIALS APPROPRIATE FOR THE REGION. THE PERMITTEE MUST COMPLY ST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

ARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERMINATION HAS BEEN SUBMITTED) THE AREAS OF THE SITE THAT HAVE SHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET HESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL STEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL BSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE SIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION ITING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL ENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED ALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING

ES THE NAME(S) OF PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF , INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO IENTATION AND POLLUTION CONTROL PLAN, AND ACTION S TAKEN IN ERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY ATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION SITE AL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. Y END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL T PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR RE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE ONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART

ORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT THE PERMITEE SHALL SAMPLE AT THE BEGINNING OF ANY STORM AFTER R AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE AMPLING ARE IMPOSSIBLE (AS DEFINED IN THE IS PERMIT), OR ARE BEYOND ALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CEASE MORE THAN THE STORM WATER DISCHARGE. R THE FOLLOWING QUALIFYING EVENTS:

RGES TO A RECEIVING WATER OR FORM AN OUTFALL, THE FIRST RAIN H WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL 1IT * (MONDAY THRU FRIDAY, 8:00 AM TO 5:00 PM AND SATURDAY 8:00 AM Y IS BEING CONDUCTED BY THE PRIMARY PERMITTEE) AFTER ALL CLEARING COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION: B. IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT

OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST.

- C. AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGERS TO A RECEIVING WATER OR FROM AN OUTFALL AREA NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITH TOW (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FORM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OF EXCEEDS 0.5 INCH DURRING NORMAL BUSINESS HOURS * UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND
- D. WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D4.A(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF A ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B), OR (C) ABOVE; AND E. EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS
- PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

*NOTE THAT THE PERMITTE MAY CHOOSE TO MEET THE REQUIREMENT OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.

REPORTING:

MAINTAINED.

THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT A SUMMARY OF THE MONITORING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G. SAMPLING REPORTS MUST BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:

- A. THE RAINFALL AMOUNT, DATE, EXACT PLACE, AND TIME OF SAMPLING OR MEASUREMENTS; B. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
- C. THE DATE(S) ANALYSES WERE PERFORMED; D. THE TIME(S) ANALYSES WERE INITIATED;
- E. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES; F. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED; AND
- G. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS.
- H. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU." AND I. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.
- ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. IF ELECTRONIC SUBMITTAL IS PROVIDED BY EPD THEN THE WRITTEN CORRESPONDENCE MAY BE SUBMITTED ELECTRONICALLY; IF REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE.

#32 RETENTION OF RECORDS

- THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT THE DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI: A. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
- B. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT; C. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
- D. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT E. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A OF THIS PERMIT; F. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART
- III.D.2. OF THIS PERMIT; AND G. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2) OF THIS PERMIT.
- COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

#33 STORMWATER SAMPLING

SAMPLE ANALYSIS

STORM WATER SAMPLES ARE TO BE ANALYZED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 AND THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT. EPA 833-B-92-001."

STORM WATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT THE OUTFALL LOCATION. A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED. INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING 75, THE VALUE THAT WAS SELECTED FROM APPENDIX B IN PERMIT NO. GAR 1000001. THE NTU IS BASED UPON THE DISTURBED ACREAGE OF 1.2 ACRES FOR THE PROJECT SITE, THE SURFACE WATER DRAINAGE AREA OF <1.0 SQUARE MILES, AND RECEIVING WATER WHICH SUPPORTS WARM WATER FISHERIES.

SAMPLE TYPE

ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PORT 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

PER NPDES PERMIT, GAR 100001, "SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES. SAMPLES SHOULD BE WELL MISEXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER. LARGE MOUTH, WELL-CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANSED THOROUGHLY TO AVOID CONTAMINATION. MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED.

#34 SAMPLING POINTS AND NTU REQUIREMENTS

APPENDIX B

Nephelometric Turbidity Unity (NTU) TABLES

				COLD	WATER (Trou	t Stream)			
			S	urface Water	r Drainage Ar	ea, Square N	\iles		
	0-4.99 5-9.99 10-24.99 25-49.99 50-99.99 100-249.99 250-499.99								
	1.00-10	25	50	75	150	300	500	500	500
	10.01-25	25	25	50	75	150	200	500	500
SITE SIZE,	25.01-50	25	25	25	50	75	100	300	500
ACRES	50.01-100	20	25	25	35	59	75	150	300
	100.01+	20	20	25	25	25	50	60	100
			WARM	WATER (SUP	PORTING W	ARM WATER	FISHERIES)		
			S	urface Water	^r Drainage Ar	ea, Square N	\iles		
		0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
	1.00-10	(75)	150	200	400	750	750	750	750
	10.01-25	50	100	100	200	300	500	750	750
SITE SIZE,	25.01-50	50	50	100	100	200	300	750	750
ACRES	50.01-100	50	50	50	100	100	150	300	600
	100.01+	50	50	50	50	50	100	200	100

39 & 40 ALTERNATIVE BMP'S

N/A - THERE ARE NO ALTERNATIVE BMP'S ASSOCIATED WITH THIS PROJECT.

41 & 42 WETLANDS, STATE WATERS, BUFFERS

FEMA FLOOD INSURANCE RATE MAP NO. 13149C0180C, DATED 08/19/2010 INDICATES THAT THIS PROPERTY IS LOCATED IN ZONE X.

#45 PEAK DISCHARGE FLOW

PEAK DISCHARGE PRIOR TO CONSTRUCTION: Q₁₀₀ = 7.36 CFS PEAK DISCHARGE AFTER CONSTRUCTION IS COMPLETE: Q100 = 6.89 CFS

#47 SOILS CHART

DIL SERIES TABLE				
MAPPING UNIT & SOIL NAME	SOIL TEXTURE	ERODIBILITY (K)	STRUCTURE	PERMEABILITY (IN/HR)
AmB - Appling sandy loam	Sandy loam	0.24	Granular	1.63
AmC - Appling sandy loam	Sandy loam	0.24	Granular	1.63

	EROSION, SEDI	IMENTATION & POLLUTION CONTROL PLAN CHECKLIST - STAND ALONE CONSTRUCTION PROJECTS											
Project Name Address City/County	FIRE DEPARTMEN 365 JOE STEPHE HEARD COUNTY	SWCD: WEST GEORGIA SWCD NT 5 BRIAN KIMSEY, P.E BRIAN@CARTERENGINEERING.COM FINS ROAD 01.16.24 Date on Plans											
Sheet #	Included	TO BE SHOWN ON ES&PC PLAN											
C 8.0		 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. 											
C 8.0 - C 8.1		2. Level II certification number issued by the Commission, signature and seal of the certified design professional											
NA C 8.0		 Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the GAEPD District Office. If GAEPD approves the request to disturb 50 acres or more at any one time, the Plan muat include at least 4 of the BMPs listed in Appendix 1 of this checklist and the GAEPD approval letter. * The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls. 											
C 8.0		 The number of the 24-hoor contrast responses of contrast, responses of the contrast, and phone number of primary permittee. 			-								
C 8.0 C 8.0		6. Note total and disturbed acreages of the project or phase under construction.7. Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.			RIPTION	Ş							
ALL C 8.0		8. Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.9. Description of the nature of construction activity and existing site conditions.			k DESCF	REVIEV							
C 8.1	1	0. Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.			DATE &	CLIENT							
C 8.0	1	1. Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.		8 8	VISION	16.24 -							
C 8.0	1	2. Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 19 of the permit.			RE	01.							
C 8.0	1	3. Design professional's certification statement and signature that the site was visited prior to development of the comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 19 of the permit.		REVISIC	ISSUE	-	5	m	4	Q	6	7	8
C 8.0	1	4. Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation." in accordance with Part IV.A.5 page 25 of the permit. *		-	-	-	//				-	-	
C 8.0	1	 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the lurisdictional Determination line without first acquiring the necessary variances and permits." 				l.	LL V	$O_{\overline{G1S}}$	<u></u> τε,	1 AND	Z	N	
NA C 8.0	1	 6. Provide a description of any buffer encroachments and indicate whether a buffer variance is required. 7. Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with 			((.	t		NO. 2 POFE	26703	ALKI	k	.))	
C 8.0	1	 a hydraulic component must be certified by the design professional." * 8. Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized 			//	Ć.	× 01	NG1 R/A1	NEF NKI	MSE		//	
C 8.0	1	 9. Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and erosion and disturbing activities." 			(ЗSМ	√CC №. (Leve	1 II C	ertifi 030(catio)7	'n	
C 8.0	2	20. Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall	Ī										7
C 8.0	2	be implemented to control or treat the sediment source." 1. Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."											
C 8.0	2	 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of a Biota Impaired Stream Segment must comply with Part 						ľ					
NA	2	 III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. * If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in Item 22) 											
C 8.0	2	above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. * 24. BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the											
C 8.0	2	drum at the construction site is prohibited. * 25. Provide BMPs for the remediation of all petroleum spills and leaks.						R	27		Ε	F	2
C 8.0	2	26. Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *			E	N	GI	NI	ΞE	RI	N	G	
C 8.0 C 8.0	2	 P7. Description of practices to provide cover for building materials and building products on site. * 18. Description of the practices that will be used to reduce the pollutants in storm water discharges. * 		C/ 10	4RT)10	ER I COI	ENG MME	INE		IG XIVE			
C 8.1	2	P. Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).		BC P: F:)G# 77(77(ARI,).72).72	, GA 5.12 5.12	306 00 04	,22				
C 8.0 C 8.0	3	30. Provide complete requirements of Inspections and record keeping by the primary permittee. * 31. Provide complete requirements of Sampling Frequency and Reporting of sampling results. *	ļ	W	ww.	cart	eren	igine	erin	ig.co	m		
C 8.0	3	32. Provide complete details for Retention of Records as per Part IV.F. of the permit. *			•	-	-	-	•	•	•	•	
C 8.0 C 8.0	3	 Description of analytical methods to be used to collect and analyze me samples from each location. Appendix B rationale for NTU values at all outfall sampling points where applicable. * 			L	n							
C 8.1	3	5. Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged. *			2	Ζ					17		
C 8.1	3	A description of appropriate controls and measures that will be implemented at the construction site incluaing: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a sinale phase. *				ľ ľ				~	iA 302		
C 8.1	3	Graphic scale and North arrow.				L			L	ה	じ、		
C 8.1	3	Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:								_ Z	NKLIN		
		Contour Intervals: 0.5 or 1; 1 or 2; 2, 5 or 10			Ľ				L ⊾	Ξ	RAN		
NA	3	19. Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov.				2	((ド	ך כ	ーヒ	D - F		
NA	4	10. Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *				ר כ	Ĺ	Ľ	< 2	1 L	ROA		
NA	4	 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact. 				<u>_</u>			L	Ц С	INS		
NA	4	2. Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.				⊔ >			L	— Ц	μΗ		
HYDRO HYDRO	4	 Delineation and acreage of contributing drainage basins on the project site. Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. * 			Ĺ	Ú			2	ビ	STE		
C 8.0	4	15. An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.			(כ			L	L	ЫОЕ		
C 8.3	4	Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.									365、		
C 8.1	4	50il series for the project site and their delineation. The limits of disturbance for each phase of construction.			C	う							
C 8.1	4	Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin,											
		retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not activities in the plane for each explaining the decision to use equivalent controls when a sediment basin is not activities.	ſ	SH	IEE	ТТ	ITLE ER	Ξ: (O)	SIC	- DN			
		A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that		(PR)L E:	NC)TE	ES	
C 8.1	5	withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan. Decation of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and				Ч	I F	: _		2 C)		
C 8.3	5	Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georaia.			(] (<u>с</u>	Ú	N	T	Y		
C 8.3	5	Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of the year	ſ	SH	IEE	ΤN	IUM C	IBEI	R: 3.()			1
* If using this	checklist for a pro	That seeding will take place and for the appropriate geographic region of Georgia.	ľ	PR	OJ	EC. 23		им)1	BEF	<u>؛</u> ۲	G		1
		items would be N/A. Effective January 1, 2023	ŀ	DA	٦TE)1		6	 22			-



MAPPING UNIT & SOIL NAME	SOI
AmB - Appling sandy loam	Sa
AmC - Appling sandy loam	Sa
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TONE		SITE DEVELOPMENT PLANS FOR FIRE DEPARTMENT 5 365 JOE STEPHENS ROAD - FRANKLIN, GA 30217
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WITH GRASS STRIP #5' MIN WIDTH WITH NO OBSTRUCTIONS (MAILBOXS, SIGNS,ETC)	EVISION BLO ISSUE RE ISSUE RE 3 01. 2 5 8
7' PREFERRED WIDTH WITH A 2' AREA OF CONTRASTING COLOR & TEXTURE ADJACENT TO THE CURB. (COST OF TEXTURE, COLORING & HOLES REQUIRED FOR MAILBOX AND SIGN POST SHALL BE INCLUDED IN THE PRICE BID FOR SIDEWALK) BE PLACED, WHERE SIDEWALK TIE INTO A T CURB, RAMPS OR DRIVEWAYS AND AT 60'	$\frac{2}{2}$
JT RAMPS: PS WILL BE LOCATED AS FOLLOWS UNLESS PLANS OR CONTRACT	GSWCC Level II Certification No. 00000003007
REVISE. PEDESTRIAN CROSSWALKS WHERE CURB IS CONSTRUCTED OR REPLACED. HE SIDEWALK, CONCRETE OR UNPAVED, IS INTERRUPTED BY THE CURB AT S OR AT INTERSECTIONS. R LOCATIONS SUCH AS HOSPITALS, NURSING HOMES, REST AREAS, ETC	
E CONSTRUCTED FROM CONCRETE. SPECIFICATIONS FOR RAMPS WILL BE FOR CONCRETE SIDEWALK. RAMPS SHALL HAVE EITHER A ROUGH OR A	
ISH. ARE NOT TO BE LOCATED DIRECTLY IN FRONT OF RAMPS. CATCH BASINS CATED AT LEAST 10 FT. FROM RAMPS WHEN FEASIBLE.	
ARE LOCATED IN RADII, THE DIMENSIONS SHOWN FOR RAMP WIDTHS AND EASURED PERPENDICULAR TO THE RAMP AND NOT ALONG THE CURVE. Y STRUCTURES CONFLICT, WHERE SIDEWALK GEOMETRY VARIES, AT	CARTER ENGINEERING 1010 COMMERCE DRIVE
SECTIONS, OR IN OTHER SPECIAL CASES, THE RAMP DESIGNS MAY BE THE DESIGNER OR ENGINEER, PROVIDED THAT THE WIDTH REMAINS 48 INCHES, AND NO SLOPE ON THE ACCESSIBLE PART OF THE RAMP TAN 12:1.	BOGART, GA 30622 P: 770.725.1200 F: 770.725.1204 www.carterengineering.com
CURB AND GUTTER WILL INCLUDE THE TRANSITIONED CURB IN FRONT YDS. OF CONCRETE SIDEWALK AND CONCRETE MEDIAN PAVING RAMPS. NO ADDITIONAL PAYMENT WILL BE MADE FOR CURB RAMPS. PAYMENT WILL BE MADE FOR SAWING AND REMOVING EXISTING SIDEWALK NECESSARY FOR RAMP CONSTRUCTION.	\sim
RAMP IS PLACED ON EXISTING PAVEMENT, THE PAVEMENT SHALL BE REMOVED MINIMUM THICKNESS OF 3 INCHES OF CONCRETE AT ALL LOCATIONS, NO MENT WILL BE MADE FOR REMOVAL OF THE PAVEMENT.	AN: 30217
ARNING SURFACES ARE REQUIRED ON ALL INTERSECTIONS WITH PUBLIC NALIZED COMMERCIAL DRIVEWAYS, AND COMMERCIAL DRIVEWAYS WITH AN PD.	⊐ ⊐ P
are incorporated into plans and or projects that are being prepared or	
ic units, exact or precise conversion to metric units is not required. wn that are in feet and inches may be converted to corresponding the following "Rounded-Off" conversion factors: I" =25mm, I' =300mm. All measurement notes that refer to linear feet and be interpreted to mean linear meters and square meters	PM FOR ARTI OAD - F
DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	FILC / FLC
SPECIAL DETAIL CONCRETE SIDEWALK DETAILS CURB CUT (WHEELCHAIR) RAMPS	SITE DEV FIRE 365 JOE STEF
NO SCALE MARCH 12, 2002 NUMBER	
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	PROJECT NAME:
	HEARD COUNTY
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A GYPSUM BOARD CEILING ON METAL STUD	© RECESSED INTERIOR GRADE DOWNLIGHT - WET LOCATION
C ACOUSTICAL CEILING TYPE ACT-1	RECESSED EXTERIOR GRADE DOWNLIGHT
D SOFFIT E TBD	 RECESSED INTERIOR GRADE DOWNLIGHT WITH RED LIGHT BULB CONNECTED TO ALARM SYSTEM
MATERIAL> (A 1' - 0"	2' X 2' RECESSED TROFFER
	2' X 4' RECESSED TROFFER
	O HIGH BAY LIGHT FIXTURES SUSPENDED FROM STRUCTURE
	48" LINEAR PENDANT FIXTURE SUSPENDED FROM STRUCTURE
	CEILING MOUNTED SPEAKER
	CEILING MOUNTED SINGLE FACE EXIT SIGN
	WALL MOUNTED SINGLE FACE EXIT SIGN
	CEILING MOUNTED DOUBLE FACE EXIT

1 REFLECTED CEILING PLAN

ALL EXTERIOR DOORS TO HAVE A HALF PANEL OF GLASS

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Gardner Spencer Smith
Tench& Jarbeau A Professional Corporation for the Practice of Architecture www.gsstj.com
Tower Place Building, 3340 Peachtree Road, N.E. Suite 1800 Atlanta, Georgia 30326 404.522.8805 404.521.2118 (f) PROJECT NO.
22125
SHEET TITLE REFLECTED CEILING PLAN
SHEET NO.

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	22125 ROOF	SHEET TITLE PLAN						
	A1.	sheet no. 41						

1 WALL SECTION @ TYPICAL CANOPY

DRIP EDGE FLASHING FASCIA

GUTTER

B.O. ROOF +18' - 0"

- SOFFIT FRAME

SOFFIT PANEL

SINGLE LEG VENT STRIP

PREFABRICATED METAL CANOPY WITH INTEGRAL DRAINAGE

- CONCRETE PAVEMENT _____ ___ ___ ___ ___

LEVEL 1 +0' - 0"

1"____1" 2' - 0" 1' - 0" 1' - 0"

3/4" = 1'-0"

ETAILS	5										
		Hardware			Hold	Exit		Card		Hard ware	
AMB	SILL	Function	Lock	Closer	Open	Device	Hook	Reader	Signage	Set	NOTES
J1A	S1	ENTRY	Yes	Yes	No	Yes	No		NO		
J2		PASSAGE	No	No	No	No	No		NO		
J2	S3	PRIVACY	Yes	No	No	No	Yes		YES		
J2	S4	STORAGE	Yes	No	No	No	No		NO		
J2		PASSAGE	No	No	No	No	No		NO		
J1	S1	ENTRY	Yes	Yes	No	No	No		NO		
J4		PASSAGE	No	Yes	No	No	No		NO		
J1	S1	ENTRY	Yes	Yes	No	No	No		NO		
J2		PRIVACY	Yes	No	No	No	Yes		NO		
J2		PRIVACY	Yes	No	No	No	Yes		NO		
J2		PRIVACY	Yes	No	No	No	Yes		NO		
J2		PASSAGE	No	No	No	No	No		NO		
J2	S3	PRIVACY	Yes	No	No	No	Yes		YES		
J2		STORAGE	Yes	No	No	No	Yes		NO		
J2	S4	STORAGE	Yes	No	No	No	No		NO		
J2		PASSAGE	No	No	No	Yes	No		NO		
J1	S1	ENTRY	Yes	Yes	No	No	No		NO		
J2		STORAGE	Yes	No	No	No	Yes		NO		
J2		STORAGE	Yes	No	No	No	Yes		NO		
J1	S1	ENTRY	Yes	Yes	No	Yes	No		NO		
J3		STORAGE	Yes	Yes	No	No	No		NO		
J2		PASSAGE	No	No	No	Yes	No		NO		
J3	S4	PASSAGE	No	Yes	No	Yes	No		NO		
J3		PASSAGE	No	Yes	No	No	No		NO		
J1	S2	STORAGE	Yes	Yes	No	No	No		NO		
		GARAGE	Yes	No	No	No	No				
		GARAGE	Yes	No	No	No	No				
		GARAGE	Yes	No	No	No	No				
		GARAGE	Yes	No	No	No	No				
		GARAGE	Yes	No	No	No	No				
		GARAGE	Yes	No	No	No	No				
J1	S2	ENTRY	Yes	Yes	No	No	No		NO		
J1	S2	ENTRY	Yes	Yes	No	No	No		NO		
12	S4	STORAGE	Yes	No	No	No	No		NO		

				INTERI	OR FINISH SCHE	DULE		INTERIOR FINIS	SHES KEY:	INTERIO	R FINISHES:
ROOM #	ROOM NAME	FLO SUBSTRATE	OR FLOOR	BASE	W/ SUBSTRATE	ALLS WALL	NOTES	CG CONC	CORNER GUARDS CONCRETE	CG	CORNER GUARDS BY KOROSEAL INTERIOR PRODUCTS, KOROGUARD WALL PROTECTION SYSTEMS, STYLE: #G100 VINYL CORNER GUARD, COLOR: SAND, TEXTURE: P1 DUNE, CORNER GUARDS ARE TO BE INSTALLED ON THE ENTIRE HEIGHT OF EACH CORNER.
101 102 103 104	LOBBY RR JAN CORRIDOR	CONC CONC CONC CONC	LVT PT SC	RB PTB RB RB	GYP GYP GYP GYP	PNT PNT & PT FRP & PNT PNT	ACCENT PNT PT ON WET WALL	CT FRP GRT	CERAMIC TILE FIBER REINFORCED POLYMER PANELS GROUT	СТ	CERAMIC TILE BY TILEBAR, STYLE: KENT, COLOR: MARINE, SIZE: 2.6" X 13" HEXAGON, FINISH: POLISHED. THIS IS ONLY FOR THE BACKSPLASH IN THE KITCHEN.
105 106 107	CORRIDOR BEDROOM 1 BEDROOM 2	CONC CONC CONC CONC	LVT LVT LVT	RB RB RB	GYP GYP GYP	PNT PNT PNT PNT		LVT NIC	LUXURY VINYL TILE NOT IN CONTRACT	GRT-1	GROUT BY LATICRETE, #61 PARCHMENT. THIS GROUT IS TO BE PT-1 & PTB.
108 109 110 111	BEDROOM 3 LAUNDRY BATHROOM STORAGE	CONC CONC CONC CONC	LVI PT PT LVT	PTB PTB RB	GYP GYP GYP GYP	PNT PNT PNT & PT PNT	PT ON WET WALL, SS & PLAM	PLAM PNT PT	PLASTIC LAMINATE PAINT PORCELAIN TILE	LVT	GROUT BY LATICRETE, #88 SILVER SHADOW. THIS GROUT IS TO BE USED WITH CT-1 AND PT-3. LUXURY VINYL TILE BY SHAW CONTRACT, STYLE: IN UNISON 5.0 #4430V, COLOR: SANDY DUNE #91240, SIZE: 9" X 36", INSTALLATION METHOD: MONOLITHIC
112 113 114 115	I.T. KITCHEN DAY ROOM	CONC CONC CONC	SC LVT LVT	RB RB RB	GYP GYP GYP	PNT PNT PNT PNT	CT ON WET WALL & SS	PTB RB SC	PORCELAIN TILE WALL BASE RUBBER BASE SEALED CONCRETE	PLAM	PLASTIC LAMINATE BY ARBORITE, STYLE: NATURAL CHAMOIS #P332-CA
116 116 117 118	STORAGE STORAGE VOTE	CONC CONC CONC CONC	LVT LVT LVT	RB RB RB	GYP GYP GYP	PNT PNT PNT PNT		TBD TYP WD	TO BE DETERMINED TYPICAL WOOD DOORS	PNT-1 PNT-2	BASE PAINT BY SHERWIN WILLIAMS, #SW 6107 NOMADIC DESERT, THROUGHOUT UNLESS OTHERWISE NOTED. HOLLOW METAL FRAME PAINT BY SHERWIN WILLIAMS, #SW 9108 DOUBLE LATTE. THIS PAINT IS ONLY FOR HOLLOW METAL FRAMES.
119 120 121 122	GEAR CORRIDOR DETOX MECH.	CONC CONC CONC CONC	SC CONC SC SC	RB RB RB RB	GYP GYP GYP GYP	PNT PNT PNT PNT				PNT-3	ACCENT PAINT BY SHERWIN WILLIAMS, #SW 9151 DAPHNE, ONLY WHERE NOTED.
123 124	APPARATUS BAY ELEC.	CONC CONC	CONC SC	RB RB	CMU GYP	PNT PNT				PNT-5	PAINT BY SHERWIN WILLIAMS, #SW 6871 POSITIVE RED. THIS PAINT IS ONLY FOR THE TRUCK BAY DOORS, FRONT AND BACK.
										PT-1	PORCELAIN TILE BY TILE BAR, STYLE: KENRIDGE, COLOR: MAPLE, SIZE: 8" X 48". THIS TILE IS ONLY FOR FLOORS IN RESTROOM & BATHROOM.
										PT-2	PORCELAIN TILE BY TILEBAR, STYLE: KENRIDGE RIBBON, COLOR: MAPLE. SIZE: 24" X 48", INSTALLATION METHOD: MONOLITHIC (DESIGN IS TO RUN VERTICAL. IF IN DOUBT SEND RFI TO ARCHITECT.) THIS TILE IS ONLY FOR WET WALLS IN RESTROOM AND BATHROOM. CONTRACTOR TO FURNISH AND INSTALL SCHLUTER FINISHING STRIPS AS NEEDED. THE FINISH SHALL MATCH THE FINISH ON THE FAUCETS
										PT-3	PORCELAIN TILE BY TILEBAR, STYLE: LEVEL 1" HEXAGON, COLOR: WHITE, FINISH: MATTE. THIS TILE IS ONLE FOR THE FLOOR OF THE SHOWER.
										РТВ	PORCELAIN TILE BASE BY TILEBAR, STYLE: KENRIDGE, COLOR: MAPLE, SIZE: 4" X 48". TILE NEEDS TO BE CUT IN FIELD. CONTRACTOR TO FURNISH INSTALL SCHLUTER FINISHING STRIPS ON CUT EDGES. SCHLUTER FINISHING STRIPS SHALL MATCH FINISH OF FAUCETS.
										RB	RUBBER BASE BY ROPPE, #632 FLAX
										SS	SOLID SURFACE BY LX HAUSYS, STYLE: HI-MACS, COLOR: KALA CHANA #W012
											WOOD DOORS BY VI ARCHITECTURAL WOOD DOORS, SPECIES: SELECT WHITE BIRCH, COLOR: RAVINE #RA18
										INTERIO	R FINISH NOTES:
										1. ALI	L EXTERIOR WINDOWS SHALL RECEIVE BUILDING STANDARD

2.

3.

5.

ETC.

NOTED OTHERWISE.

OF INTERMEDIATE FINISHES.

BE WHITE MELAMINE.

EXTERIOR FINISHES:

BRICK-1

BRICK-2

MORTAR

PNT-3

PNT-5

FINISH SHALL MATCH THE FAUCETS.

ASPHALT SHINGLE GAF AMBER WHEAT

GMS KOOSA LIGHT BUFF

GLOSS FINISH.

WINDOW TREATMENT, UNLESS OTHERWISE NOTED. ALL FLOORING SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS REGARDING ADHESIVES, SEAMING, DIRECTIONS,

ALL TRANSITIONS IN FLOOR MATERIALS SHALL OCCUR UNDER THE CENTERLINE OF THE CLOSED DOOR WHERE APPLICABLE. 4. ALL WALLS SHALL BE PAINTED PNT-1, UNLESS OTHERWISE NOTED. ALL GRILLES, DIFFUSERS, AND ACCESS PANELS SHALL BE PAINTED TO MATCH THE WALL OR CEILING ON WHICH THEY ARE LOCATED UNLESS

ALL PAINTED METAL SHALL RECEIVE MANUFACTURER'S RECOMMENDED PRIMER COAT AND TWO (2) COATS OF LATEX SEMI-

6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT SAMPLES TO GSSTJ FOR APPROVAL PRIOR TO PURCHASE OF PRODUCT. THE SAMPLES MUST BE LABELED BEFORE SUBMITTING TO GSSTJ. ALL INTERIOR FINISHES REQUIRED ARE INCLUDED IN THESE DRAWINGS. SOME PRODUCTS HAVE A LONGER LEAD TIME AND ARE NOT GUARANTEED TO BE IN STOCK. SUBCONTRACTORS SHALL PLACE ORDERS IMMEDIATELY UPON AWARD OF PROJECT TO AVOID THE USE

8. THE RESTROOM AND BATHROOM SHALL RECEIVE PT-2 ON THE WET WALLS AND WHERE THE TILE TURNS CORNERS. REFERENCE INTERIOR ELEVATIONS FOR LOCATIONS. PT-1 SHALL BE INSTALLED ON THE FLOORS. PT-3 SHALL BE INSTALLED IN SHOWER PAN (FLOOR). 9. SUBCONTRACTOR TO FURNISH AND INSTALL SCHLUTER FINISHING STRIPS ON SHARP EDGES OF THE TILE. SCHLUTER FINISHING STRIPS

10. ALL FLOORING SHALL BE CENTERED IN ROOMS. 11. UNEXPOSED PORTIONS OF CABINETS AND DRAWER INTERIORS SHALL

> ACME MUSHROOM BROWN, MODULAR SIZE ACME DOESKIN, MODULAR SIZE

ACCENT PAINT BY SHERWIN WILLIAMS, #SW 9151 DAPHNE, ONLY WHERE NOTED.

PAINT BY SHERWIN WILLIAMS, #SW 6871 POSITIVE RED. THIS PAINT IS ONLY FOR THE TRUCK BAY DOORS, FRONT AND BACK

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	A Professional Corporation for the Practice of Architecture
	www.gsstj.com
	Atlanta, Georgia 30326
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1D. Floor and Ceiling Runners — (Not Shown) — For use with Item 2A — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC. 1E. Framing Members* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Items 2E, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max. CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS L L C — ProTRAK

MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1F. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1-1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. SUPER STUD BUILDING PRODUCTS — The Edge

1G. Framing Members* — Floor and Ceiling Runner — For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max. STUDCO BUILDING SYSTEMS — CROCSTUD Track

1H. Floor and Ceiling Runners — (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.018 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC. MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100 IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

1. Framing Members* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Items 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max. TELLING INDUSTRIES L L C — TRUE-TRACK™

1J. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max. 1K. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2J, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. 1L. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-1/2 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. RESCUE METAL FRAMING, L L C — AlphaTRAK

1M. Framing Members* — Floor and Ceiling Runners — Not Shown — As an alternate to Item 1 — For use with Item 20, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. RONDO BUILDING SERVICES PTY LTD — Rondo Wall Track

1N. Framing Members* — Floor and Ceiling Runners — Not Shown — As an alternate to Item 1 — For use with Item 2P, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. OEG BUILDING MATERIALS — OEG Track

10. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2Q, proprietary channel shaped runners, min width to accommodate stud size, fabricated from min. 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max. CEMCO, LLC — Viper X Track

2. Steel Studs — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height 2A. Steel Studs — (As an alternate to Item 2, For use with Items 5B, 5E, 5H, 5J or Type ULIX) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height. 2B. Framing Members* - Steel Studs — (As an alternate to Item 2, For use with Items 5C, 5I or Type ULIX) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only. CEMCO, LLC — Viper25™

CRACO MFG INC — SmartStud25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ IMPERIAL MANUFACTURING GROUP INC — Viper25™

are as follows: Rating, Hr

CEMCO, LLC — Viper X

indicated under Item 5.

3-1/2 in.

in. thick Types IP-X3 or ULTRACODE WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

U.L. DESIGN U419, CONT'D. U.L. DESIGN U419, CONT'D. When Item 7B, Steel Framing Members*, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation 7B. Framing Members* — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing 2C. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item (Item 4) is 3 in., and two lavers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights. Members on only one side of studs as described below: of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6. a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not 5A. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. for use with Item 5A. Secured as described in Item 6. b. Steel Framing Members* — Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to CGC INC — Type SHX. studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips. KINETICS NOISE CONTROL INC — Type Isomax UNITED STATES GYPSUM CO — Type FRX-G, SHX. USG MEXICO S A DE C V — Type SHX. 2D. Framing Members* — Steel Studs — In lieu of Item 2 — Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. 7C. Framing Members* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7 ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20 furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels 5B. Gypsum Board* — (Not Shown) — As an alternate to Item 5 when used as the base laver on one or both sides of wall when 5/8 in or 3/4 in. thick CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20 secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A. products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) — Nom 5/8 in. or 3/4 in. may be used as b. Steel Framing Members* — Used to attach furring channels (Item 7Ca) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to alternate to all 5/8 in. or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick lead backed gypsum QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20 studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides PLITEQ INC — Type GENIECLIP of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20 OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12). RAY-BAR ENGINEERING CORP — Type RB-LBG STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20 7D. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20 Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. 5C. Gypsum Board* — (For Use With Item 2B) — Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20 Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S furring channels as described in Item 6. Not for use with Item 5A. coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the b. Steel Framing Members* — Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and 2E. Framing Members* — Steel Studs — (Not Shown, As an alternate to Item 2) — For use with Items 5F or 5G or 5I or Type ULIX only, channel STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as 7E. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing outlined under section VI of Volume 1 in the Fire Resistive Directory. Members as described below: CGC INC — Type SCX, ULIX. a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 7Eb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX to furring channels as described in Item 6. Not for use with Item 5A and 5E. b. Steel Framing Members* — Used to attach furring channels (Item 7Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 UNITED STATES GYPSUM CO — Type SCX, SGX, ULIX in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. REGUPOL AMERICA — Type SonusClip USG BORAL DRYWALL SFZ LLC — Type SCX USG MEXICO S A DE C V — Type SCX 2F. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under 7F. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Resilient channels and Steel Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly Framing Members as described below: a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in 5D. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. use with Items 1 and 2 only. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 5. Not for use with Item 5A and 5E. CGC INC — Type USGX b. Steel Framing Members* — Used to attach resilient channels (Item 7Fa) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw. UNITED STATES GYPSUM CO — Type USGX KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip 2G. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped studs, minimum width indicated under Item 5, USG BORAL DRYWALL SFZ LLC — Type USGX USG MEXICO S A DE C V — Type USGX 7G. Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels 2H. Framing Members* — Steel Studs — (Not Shown, As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A. 5E. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick b. Steel Framing Members* — Used to attach furring channels (Item 7Ga) to studs (Item 2). Clips spaced max. 48 in. OC. Clips secured to studs with products are specified. For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Nelco 2J. Framing Members* — Metal Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights 8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper 2K. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height. gypsum panels are supplied with a square edge. 5F. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only, Gypsum panels with beveled,). Siding, Brick or Stucco — (Optional, Not Shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be more than each sixth course of brick. a minimum 3-5/8 in. 10. Caulking and Sealants* — (Optional, Not Shown) — A bead of acoustical sealant applied around the partition perimeter for sound control. THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO - Type SCX 2L. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG UNITED STATES GYPSUM CO — Type AS corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height. UNITED STATES GYPSUM CO - 5/8 in. thick Type SCX, SGX, ULIX USG BORAL DRYWALL SFZ LLC — 5/8 in. thick Type SCX, SGX 11. Lead Batten Strips — (Not Shown, For Use With Item 5B) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one 2M. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height. Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5B) and optional at remaining stud locations. 5G. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled, square or tapered edges, Required behind vertical joints. applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over 11A. Lead Batten Strips — (Not Shown, For Use With Item 5H) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number 2N. Framing Members*— Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min depth 3-1/2 in, and as indicated 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum of layers for the 2 hr, 3 hr and 4 hr ratings are as follows: under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in length than assembly height. wallboard and optional at remaining stud locations. 12. Lead Discs or Tabs — (Not Shown, For Use With Item 5B) — Used in lieu of or in addition to the lead batten strips (Item 11) or optional at other Gypsum Board Protection on Each Side of Wall locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max Min Stud No. of Layers 0.125 in. thick lead tabs placed on gypsum boards (Item 5B) underneath screw locations prior to the installation of the screws. Lead discs or tabs to Depth, in. & Thickness Rating have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Item 2E of Panel 12A. Lead Discs — (Not Shown, for use with Item 5H) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel 20. Framing Members* — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D". galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max. 13. Lead Batten Strips — (Not Shown, For Use With Item 5E) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 1-5/8 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard 1 - 5/82P. Framing Members* — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, min (Item 5E) and optional at remaining stud locations. 25 MSG galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max. 14. Lead Tabs — (Not Shown, For Use With Item 5E) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of 1-5/8 4 layers, 1/2 in. thick OEG BUILDING MATERIALS — OEG Stud stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary. 15. Barrier Mesh — (Optional, Not Shown) - Attached to steel studs on one or both sides of the wall using Barrier Mesh Clips spaced at maximum 12 CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR;, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX or 3/4 in. thick Types IP-2Q. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 10, proprietary channel shaped steel studs, min depth inches on center vertically, using a flat head type screw penetrating through the steel at least 3/8 of an inch. For Steel Studs less than 0.033 inches in X3 or ULTRACODE as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. thickness, use self-piercing screws. For Steel Studs equal to or greater than 0.033 inches in thickness, use steel drill screws (self-tapping). Gypsum Board (Item 5) to be installed directly over the Barrier Mesh using prescribed screw patterns with lengths increased by a minimum 1/8 in. Barrier Mesh less in lengths than assembly heights. THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO - 1/2 in. thick Types C and 5/8 in. thick SCX may be installed with the long dimension of the diamond pattern positioned vertically or horizontally. Barrier Mesh joints may occur as butt joints at the framing members and secured using the Barrier Mesh Clips or occur in between framing members as overlapping joints secured using 18 SWG wire UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C, , FRX-G, IP-AR, IP-X2, ties spaced a maximum 12 in. on center. IPC-AR, ULIX; 3/4 in. thick Types IP-X3 or ULTRACODE CLARKDIETRICH BUILDING SYSTEMS — Barrier Mesh, Barrier Mesh Clips 3. Wood Structural Panel Sheathing — (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When thick Types IP-X3 or ULTRACODE respectively used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in. Last Updated on 2023-08-16 4. Batts and Blankets* — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies. 5H. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to U.L. Design HW-D-0184 4A. Batts and Blankets* — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, Surface Burning Characteristics and/or Fire Resistance. June 26, 2023 square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies. studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5J) secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), 4B. Fiber, Sprayed* — (Optional, for use with Type ULIX) Where insulation is required - Spray applied granulated mineral fiber material. The fiber is Compound see Item 5. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see Item 12A). respectively applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum product. See Fiber, Sprayed (CCAZ). ANSI/UL2079 CAN/ULC S115 AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus Assembly Ratings — 1 and 2 Hr (See Item 2) F Ratings — 1 and 2 Hr (See Item 2) Nominal Joint Width - 3/4 In. FT Ratings — 1 and 2 Hr (See Item 2) 51. Gypsum Board* — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Class II Movement Capabilities - 17% Compression or Extension FH Ratings - 1 and 2 Hr (See Item 2) Item 5. Steel stud minimum depth shall be as indicated in Item 5. 4C. Foamed Plastic* — (Where Batts and Blankets*, Item 4, are optional, for use with Item 5K) — Spray applied, foamed plastic insulation, at any CGC INC — Type ULIX, ULX L Rating At Ambient — Less Than 1 CFM/lin ft FTH Ratings - 1 and 2 Hr (See Item 2) thickness from partial fill to completely filling stud cavity, for 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be L Rating At 400 F - Less Than 1 CFM/lin ft Nominal Joint Width - 3/4 In UNITED STATES GYPSUM CO — Type ULIX, ULX Class II Movement Capabilities - 17% Compression or Extension L Rating At Ambient — Less Than 1 CFM/lin ft CARLISLE SPRAY FOAM INSULATION — Types SealTite ONE, SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, USG MEXICO S A DE C V — Type ULX L Rating At 400 F — Less Than 1 CFM/lin ft SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO. 5J. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick 4D. Foamed Plastic* — (Where Batts and Blankets*, Item 4, are optional, for use with Item 5L) — Spray applied, foamed plastic insulation, at any products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels thickness from partial fill to completely filling stud cavity, for up to 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of shall be 3-1/2 in. with minimum 20 MSG steel thickness. studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten BASE CORP - Enertite® NM. Enertite® G. FE178®. Spravtite® 178. Spravtite® 81206. Walltite® 200. Walltite® US. Walltite® US-N. Walltite HP+. strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive FE137®, FE158®, Spravtite® 158, Spravtite® SP and Spravtite® 81205 and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal 5. Gypsum Board* — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and specification QQ-L-201f. Grade "C". (2D) staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) with Type ULIX need not be staggered. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings 5K. Gypsum Board* — (As an alternate to Item 5 when Foam Plastic insulation (Item 4C) is used) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 5 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached Gypsum Board Protection on Each Side of Wall to studs over inner layer with the 1-5/8 in. long steel screws spaced 8 in. OC. Min No. of Stud Layers Thkns of & Thkns Depth, in. nsulation Items 2, 2C, 2D, 2F, 2G, 2O of Panel (Item 4) 5L. Gypsum Board* — (As an alternate to Item 5 when Foam Plastic insulation (Item 4D) is used) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed 3-1/2 1 layer, 5/8 in. thick Optional 1. Floor Assembly — The fire-rated fluted steel floor unit/concrete floor assembly shall be constructed of the materials and in the manner described in in Item 5 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels the individual D700 or D900 Series Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features: 1 layer, 1/2 in. thick secured to studs with 1-1/4 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be A. Steel Floor and Form Units* — Max 3 in. (76 mm) deep galv steel fluted units. 1-5/8 1 layer, 3/4 in. thick Optional attached to studs over inner layer with the 1-7/8 in. long steel screws spaced 8 in. OC. B. Concrete — Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units. 1-5/8 2 layers, 1/2 in. thick Optional 6. Fasteners — (Not Shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels C. Spray-Applied Fire Resistive Materials (Optional) — (Not Shown) — Prior to or after the installation of the ceiling runner and prior to the installation 1-5/8 2 layers, 5/8 in. thick Optional (Item 7). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are of the Fill, Void or Cavity Materials (Items 2A and 3), the steel floor units may be sprayed with a min 5/16 in. (8 mm) thickness to a max 11/16 in. (17 3-1/2 1 layer, 3/4 in. thick 3 in, applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Single layer system with mm) thickness of fire resistive material. Type ULIX: 1 in. long, spaced 12 in. OC in the field and perimeter, when panels are applied horizontally or vertically. Two layer systems: First layer-1 1-5/8 GCP APPLIED TECHNOLOGIES INC Type MK-6/HY 3 layers, 1/2 in. thick Optional in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick 1-5/8 2 layers, 3/4 in. thick Optional panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. Three-layer systems: First layer- 1 in. long for 1A. Roof Assembly — (Not Shown) — As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof 1-5/8 3 layers, 5/8 in. thick Optional 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire 1-5/8 4 layers, 5/8 in. thick Optional for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. 1-5/8 4 layers, 1/2 in. thick Optional shall include the following construction features: Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick 2-1/2 2 layers, 3/4 in. thick 2 in. A. Steel Roof Deck — Max 3 in. (76 mm) deep galv steel fluted roof deck. panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. B. Roof Insulation — Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the floor units. 7. Furring Channels — (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-1B. Roof Assembly — As an alternate to Items 1 and 1A, a fire rated protected fluted steel deck roof assembly may be used. The roof assembly shall protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not be constructed of the materials and in the manner described in the individual P700 Series Roof-Ceiling Design in the UL Fire Resistance Directory. for use with Item 5A. CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, WRX or WRC; 3/4 The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the 7A. Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels following construction features: and Steel Framing Members as described below: A. Steel Roof Deck — Max 3 in. (76 mm) deep galv steel fluted roof deck. a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in. thick Type C and 5/8 in. thick Type SCX B. Spray—Applied Fire Resistive Materials* — (Not Shown)—Prior to or after the installation of the steel ceiling runners, and prior to the installation of Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A. the Forming Material and Fill, Void or Cavity Material (Items 2A, 3A, 3B), the roof assembly shall be sprayed with the type and thickness of fire b. Steel Framing Members* — Used to attach furring channels (Item 7Aa) to stude (Item 2). Clips spaced max, 48 in, OC, RSIC-1 and RSIC-1 (2.75) UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, ULIX, WRX, IP-X1, AR, C, WRC, resistive material indicated in the individual P700 Series design. clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips 2. Wall Assembly — The 1 or 2 hr fire rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner described FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. in the individual U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE features:

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX,

PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

I	
	Min Thkns of
	(Item 4)
2 layers, 1/2 in. thick	Optional
2 layers, 5/8 in. thick	Optional
3 layers, 1/2 in, thick	Optional
3 layers, 5/8 in. thick	Optional
4 layers, 5/8 in. thick	Optional
A REPORT A POINT ADDRESS	Outienst

U.L. DESIGN HW-D-0184

A. Steel Floor and Ceiling Runners — Floor and ceiling runners of wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2C). Flange height of ceiling runner shall be min 1/4 in. (6 mm) greater than max extended joint width. Ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, and secured with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610mm) OC before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material.
A1. Light Gauge Framing* - Slotted Ceiling Runner — As an alternate to the ceiling runner in (Item 2A), slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2C). Ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, and secured with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610mm) OC before or after optional spray-applied material.
BRADY CONSTRUCTION INNOVATIONS INC, DBA SLIPTRACK SYSTEMS — SLP-TRK

CEMCO, LLC — CST

CLARKDIETRICH BUILDING SYSTEMS — Type SLT, SLT-H

RAM SALES L L C — RAM Slotted Track

SCAFCO STEEL STUD MANUFACTURING CO

TELLING INDUSTRIES L L C — True-Action Deflection Track MARINO/WARE, DIV OF WARE INDUSTRIES INC — Type SLT

A2. Light Gauge Framing* - Vertical Deflection Ceiling Runner — As an alternate to the ceiling runners in Items 2A and 2A1, vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened with runner. Slotted clip provided with step bushings for permanent fastening of steel studs. Flanges sized to accommodate steel studs (Item 2C). Vertical deflection ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, and secured with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610mm) OC before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material.
A3. Light Gauge Framing*- Notched Ceiling Runner — As an alternate to the ceiling runners in Items 2A through 2A2, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2C). Notched ceiling runner installed

parallel to direction of fluted steel deck, centered beneath valley, secured with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610mm) OC before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material. OLMAR SUPPLY INC — Type SCR

B. Steel Attachment Clips — (Optional - Not Shown) - When spray applied fireproofing is used ceiling runner may be secured to deck with Z-shaped clips formed from min. 1 in. (25 mm) long strips of min 20 ga galv steel. Length of clips should not exceed the width (thickness) of the wall. Clips to be sized to extend through the thickness of the spray-applied fire-resistive material on the bottom of the steel deck with 1-1/2 or 2 in. (38 or 51 mm) long upper and lower legs. Legs of clips fastened to valleys of steel deck (prior to application of spray-applied fire-resistive materials) and top of ceiling runner with steel fasteners or welds. Clips spaced max 24 in. (610 mm) OC.

C. Studs — Steel studs to be min 3-5/8 in. (92 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. When vertical deflection ceiling runner (Item 2A2) is used, steel studs secured to slotted vertical deflection clips, through bushings, with steel screws at midheight of each slot. Stud spacing not to exceed 24 in. (610 mm) OC.

D. Gypsum Board* — For 1 hr assembly, one layer of 5/8 in. (16 mm) thick gypsum board is required in the individual Wall and Partition Design. For 2 hr assembly, two layers of 5/8 in. (16 mm) thick gypsum board is required in the individual Wall and Partition Design. For both hourly ratings, a nominal 3/4 in. (19 mm) gap shall be maintained between the top of the gypsum board and the bottom surface of the steel deck and the top row of screws shall be installed into the studs 3 in. (76 mm) below the valleys of the steel floor units. The hourly fire rating of the joint system is equal to the hourly rating of the wall.

3. Fill, Void or Cavity Material* — Sealant - Max separation between bottom of floor or roof and top of wall is 3/4 in. (19 mm). The joint system is designed to accommodate a max 17 percent compression or extension from its installed width. Min 5/8 in. (16 mm) thickness of fill material installed on each side of the wall between the top of the gypsum board and the bottom of the steel deck, flush with each surface of wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 601S Elastomeric Firestop Sealant or CP 606 Flexible Firestop Sealant or CFS-S SIL GG Sealant. L Ratings apply when CP 606 or CFS-S SIL GG Sealant is used.

4. Forming Material — (Optional, Not Shown) - Mineral wool insulation, fiberglass batt insulation or polyurethane/polyethylene foam backer rod. Forming material to be recessed from both surfaces of the 2 hr fire rated wall to accommodate the required thickness of fill material.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively. Last Updated on 2023-06-26

Assembly Rating — 1 and 2 Hr (See Item 1)

Nominal Joint Width - 1 In.

ANSI/UL2079

Design No. BW-S-0059 November 5, 2020

CAN/ULC \$115 F Rating — 1 and 2 Hr (See Item 1) FT Rating — 1 and 2 Hr (See Item 1) FH Rating — 1 and 2 Hr (See Item 1) FTH Rating — 1 and 2 Hr (See Item 1)

Nominal Joint Width - 25 mm

 Floor Assembly — Min 2-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) structural concrete. Floor may also be constructed of any 6 in. (152 mm) thick UL Classified hollow-core Precast Concrete Units*.
 See Precast Concrete Units category in the Fire Resistance Directory for names of manufacturers.

2. Wall Assembly — The 1 or 2 h fire-rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Floor and Ceiling Runners — Floor and ceiling runners may consist of either wood studs or steel channel studs. Wood runners to consist of nom 2 by 4 in. (51 by 102 mm). Steel runners to be min 3-1/2 in. (89 mm) wide.
B. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber (or larger) spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
C. Gypsum Board* — For 1 hr assembly, one layer of 5/8 in. (16 mm) thick gypsum board is required in the individual Wall and Partition Design. For 2 hr assembly, two layers of 5/8 in. (16 mm) thick gypsum board is required in the individual Wall to be constructed as specified in the individual Design in the UL Fire Resistance Directory, except that a max 1 in. (25 mm) gap shall be maintained between the top of the floor and the bottom of gypsum board.
The hourly fire rating of the joint system is dependent on the hourly ratings of the walls.

Joint System — Max separation between bottom of floor and top of wall is 1 in. (25 mm). The joint system shall consist of the following:

 A. Packing Material — Polyethylene backer rod friction fit within joint opening. Packing material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.
 B. Fill, Void or Cavity Material* Sealant — Min 1/4 in. (6 mm) depth of fill material applied within joint opening on both sides of wall, flush with both surfaces of wall.
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP606 Flexible Firestop Sealant or CFS-S SIL GG Silicone Sealant.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively. Last Updated on 2020-11-05

1. CONTRACTOR SHALL SUBMIT A SCHEDULE OF SHOP DRAWING SUBMITTAL DATES AT LEAST 30 DAYS PRIOR TO FIRST SUBMITTAL. FAILURE TO SUBMIT DRAWINGS ON DESIGNATED DATES MAY IMPACT REVIEW SCHEDULE. 2. ANY MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL THAT ARE DIFFERENT FROM THE MATERIAL OR PRODUCTS SPECIFIED IN THE STRUCTURAL CONTRACT DOCUMENTS WILL BE CONSIDERED ONLY IF THE FOLLOWING CRITERIA ARE SATISFIED: A. A COST SAVINGS TO THE OWNER IS DOCUMENTED AND SUBMITTED WITH THE REQUEST.

B. THE MATERIAL OR PRODUCT HAS BEEN APPROVED BY THE ICC-ES, AND THE ICC-ES REPORT IS SUBMITTED WITH THE REQUEST. SUBMITTALS NOT SATISFYING THE ABOVE CRITERIA WILL NOT BE CONSIDERED. 3. REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER OF RECORD DOES NOT RELIEVE

THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS AND DIMENSIONS SPECIFIED IN METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION. SEE SPECIFIC PROVISIONS IN THE CONTRACT DOCUMENT DEALING WITH THE APPROPRIATE DESIGN RESPONSIBILITIES OF CONTRACTORS, SUBCONTRACTORS AND CONTRACT SUPPLIERS.

4. THE USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT AND OBLIGATES HIM TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING FROM ANY ERRORS THAT MAY OCCUR HEREIN.

MISCELLANEOUS: 1. THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

2. STRUCTURAL DRAWINGS SHALL BE COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING PERTINENT ASPECTS OF ALL DISCIPLINES INTO THEIR SHOP

DRAWINGS AND WORK, AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR OMISSIONS.

3. NO OPENINGS OR MODIFICATIONS SHALL BE MADE IN OR TO ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.

4. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.

5. OPENINGS 1'-4" OR LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.

THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED

7. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL THE TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.

8. DO NOT SCALE THESE DRAWINGS: USE DIMENSIONS. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS, SEE ARCHITECTURAL DRAWINGS.

9. THE CONTRACTOR SHALL INFORM THE PROFESSIONAL OF RECORD, IN WRITING, OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY OF SUCH DEVIATION BY THE PROFESSIONAL OF RECORD, REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC. UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE PROFESSIONAL OF RECORD OF SUCH DEVIATION AT THE TIME OF SUBMISSION AND THE ARCHITECT HAS GIVEN THE WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.

10. WHERE A SECTION/DETAIL IS CUT ON THE PLAN, IT IS ASSUMED/UNDERSTOOD TO BE REPRESENTATIVE OF ALL LIKE OR SIMILAR CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.

11. AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF PERSONS AND PROPERTY. THE ARCHITECT'S OR ENGINEER'S PRESENCE AT THE JOB SITE OR REVIEW OF WORK DOES NOT IMPLY CONFIRMATION OF THE ADEQUACY OF THE CONTRACTOR'S MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH OSHA REGULATIONS 12. CONSULT ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR LOCATION, SIZE AND EXTENT OF CHASES, INSERTS, RECESSES, RIDGES, FINISHES, DEPRESSIONS, ETC., NOT SHOWN ON THE STRUCTURAL

13. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES.

14. THE CONTRACTOR SHALL VERIFY ALL MECHANICAL EQUIPMENT WEIGHTS AS WELL AS ROOF OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

15. THE CONTRACTOR SHALL NOTIFY, IN WRITING, THE STRUCTURAL ENGINEER OF RECORD OF CONDITIONS ENCOUNTERED IN THE FIELD WHICH ARE CONTRADICTORY TO THOSE SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS.

16. STRUCTURAL CONTRACT DOCUMENTS SHALL NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR ANY MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR OR SUBCONTRACTOR. 17. REFERENCE TO STANDARD SPECIFICATIONS OR ANY TECHNICAL SOCIETY, ORGANIZATION OR ASSOCIATION OR TO

CODES OF LOCAL OR STATE AUTHORITIES SHALL MEAN THE LATEST STANDARD, CODE SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AND PUBLISHED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE

18. SEE ARCHITECTURAL DRAWINGS FOR FLOOR ELEVATIONS, SLOPE, AND LOCATION OF DEPRESSED FLOOR AREAS. THE CONTRACTOR SHALL COMPARE STRUCTURAL SECTIONS WITH THE ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATING OR INSTALLING STRUCTURAL MEMBERS.

FOUNDATIONS:

1. FOUNDATION DESIGN IS BASED ON ASSUMED STABLE, NON-EXPANSIVE SOIL WITH AN ALLOWABLE NET BEARING PRESSURE OF 2.0 KSF UNDER FULL SERVICE LIVE AND DEAD LOAD WITH A MAXIMUM OF 1/2 INCH OF DIFFERENTIAL SETTLEMENT. A GEOTECHNICAL ENGINEER LICENSED IN THE PROJECT STATE SHALL DETERMINE THE VALIDITY OF THESE ASSUMPTIONS AND THE ENGINEER OF RECORD SHALL BE NOTIFIED IF THE SOIL DOES NOT MEET ANY OF THE MINIMUM CRITERIA.

2. THE FOOTINGS HAVE BEEN POSITIONED AT THE ESTIMATED ELEVATION WHICH WILL PROVIDE SUITABLE BEARING. HOWEVER, IF ADEQUATE BEARING CAPACITY IS NON-EXISTENT AT THESE ESTIMATED ELEVATIONS, THE FOOTING SHALL BE LOWERED TO AN ELEVATION WHERE THE PRESCRIBED SAFE BEARING CAPACITY EXISTS. 3. FOOTINGS MAY BE CAST INTO AN EARTH-FORMED TRENCH IF SOIL CONDITIONS PERMIT

4. EXCAVATION FOR FOOTINGS SHALL BE CUT TO ACCURATE SIZES AND DIMENSIONS, AS SHOWN ON PLANS. ALL SOIL BELOW SLABS AND FOOTINGS SHALL BE PROPERLY COMPACTED AND SUBGRADE BROUGHT TO A REASONABLE TRUE AND LEVEL PLANE BEFORE PLACING CONCRETE.

5. IN THE AREA OF THE BUILDING, EXISTING ORGANIC MATERIAL, UNSUITABLE SOIL, ABANDONED FOOTINGS AND ANY OTHER EXISTING UNSUITABLE MATERIALS AS IDENTIFIED BY THE GEOTECHNICAL INVESTIGATION REPORT SHALL BE REMOVED. ANY FILL MATERIAL REQUIRED AT THE SITE SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE GEOTECHNICAL INVESTIGATION REPORT AND APPROVED BY A SOILS ENGINEER. ROCKS OF A DIAMETER GREATER THAN THAT SPECIFIED SHALL BE EXCLUDED FROM STRUCTURAL FILL LIFTS. FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS ACCORDING TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND COMPACTED TO A SPECIFIED MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED COMPACTION TEST (ASTM D1557). ADEQUATE FIELD DENSITY AND MOISTURE CONTENT TESTS SHALL BE PERFORMED TO ENSURE COMPLIANCE.

6. FOOTING CONCRETE SHALL BE CAST ON THE SAME DAY THE EXCAVATION IS APPROVED. IF THE BEARING SURFACE IS ALLOWED TO BECOME DISTURBED IN ANY WAY, IT SHALL BE REWORKED TO THE SATISFACTION OF THE TESTING ENGINEER PRIOR TO CASTING THE CONCRETE.

7. ALL BEARING MATERIAL SHALL BE INSPECTED BY THE INDEPENDENT TESTING AGENCY PRIOR TO CONCRETE PLACEMENT. THE INDEPENDENT TESTING AGENCY SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL. FOOTING ELEVATIONS SHALL BE ADJUSTED AS REQUIRED.

8. BOTTOM OF EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 1'-0" BELOW FINAL GRADE FOR FROST PROTECTION. 9. WHEN UNSATISFACTORY OR UNCONTROLLED FILL IS ENCOUNTERED, REMOVAL AND REPLACEMENT WILL BE PAID ON THE BASIS OF UNIT PRICES SET FORTH IN THE CONTRACT.

10. DRAINAGE FILL SHALL BE AN EVENLY GRADED MIXTURE OF NATURAL OR CRUSHED STONE, CONFORMING TO THE REQUIREMENTS OF ASTM STANDARD C33, AND HAVING A GRADATION AS FOLLOWS:

100 % PASSING A 3/4" SIEVE 10-30 % PASSING A 1/2" SIEVE 0-10 % PASSING..... A 3/8" SIEVE 0-5 % PASSING..... A #4 SIEVE

11. ANY FILL WITHIN 10'-0" OF THE BUILDING LIMIT SHALL CONFORM TO THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER FOR PREPARATION.

12. BACKFILL AROUND AND OVER FOUNDATION ELEMENTS SHALL BE OF SUITABLE MATERIAL, INSPECTED AND PRE-APPROVED BY THE TESTING ENGINEER.

13. MAXIMUM SLOPE OF EXCAVATIONS SHALL BE IDENTIFIED IN THE GEOTECHNICAL INVESTIGATION REPORT AND ADHERED TO. PROVIDE SHORING AND PROTECTION FOR EXCAVATION BANKS AS NECESSARY TO PRESERVE SAFETY

14. ALL BEARING STRATA SHALL BE ADEQUATELY DRAINED BEFORE FOUNDATION CONCRETE IS PLACED.

15. COLUMN FOOTINGS AND WALL FOOTINGS SHALL BE POURED MONOLITHIC WITH TOPS OF ADJACENT FOOTINGS AT THE SAME ELEVATION.

16. THERE SHALL BE NO HORIZONTAL OR VERTICAL CONSTRUCTION JOINTS IN ANY FOOTING WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER.

17. CONCRETE CAST ON SLOPING SURFACES SHALL BEGIN AT THE LOWEST ELEVATION AND CONTINUE MONOLITHICALLY TOWARD THE HIGHER ELEVATION UNTIL THE INTENDED POUR IS COMPLETED.

CONCRETE:

- 1. CODE: AMERICAN CONCRETE INSTITUTE (ACI) 318 (LATEST ADDITION)
- 2. CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH IN ACCORDANCE WITH THE FOLLOWING: FOOTINGS & SLABS ON GRADE ...
- 3. ALL CONCRETE SHALL HAVE A DENSITY OF 145 PCF UNLESS NOTED OTHERWISE.
- 4. CONCRETE SHALL BE ENTRAINED AS REQUIRED TO CONFORM TO DURABILITY REQUIREMENTS OF ACI 318.
- 5. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR ALL UNIQUE CONCRETE APPLICATIONS FOR REVIEW WELL IN ADVANCE OF CONCRETE PLACEMENT. CONCRETE MIX DESIGN SHALL BE CERTIFIED BY AN ENGINEER REGISTERED IN THE PROJECT STATE. MIX DESIGN TEST DATA SHALL COMPLY WITH ACI 318 AND SHALL INCLUDE (AT A MINIMUM) AVERAGE 28 DAY STRENGTH, NUMBER OF SAMPLES, AND STANDARD DEVIATION (IF APPLICABLE). TEST RESULTS SHALL NOT BE MORE THAN 24 MONTHS OLD AT TIME OF SUBMITTAL
- 6. REINFORCING SHALL CONFORM TO ASTM A615, GR60, UNLESS NOTED OTHERWISE.
- 7. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185, GRADE 60.
- 8. WELDED WIRE FABRIC SHALL BE PLACED 1" BELOW T/SLAB, UNLESS NOTED OTHERWISE. LAP FABRIC 6" ON SIDES AND ENDS.
- 9. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE LATEST ADDITION OF THE ACI DETAILING MANUAL.
- 10. ALL MIXING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE
- RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE. 11. REINFORCEMENT LAP SPLICES SHALL BE IN ACCORDANCE WITH ACI 318 (CLASS "B" WHERE APPLICABLE), UNLESS
- NOTED OTHERWISE. ALL CONTINUES REINFORCEMENT SHALL BE SPLICED AS REQUIRED.
- 12. PROVIDE 3" X 6" X 20 GAGE SHEET METAL BAR CHAIRS AT 4'-0" MAXIMUM CENTERS EACH WAY FOR ALL TOP REINFORCING FOR SLABS-ON-GRADE.
- 13. SUBMIT REINFORCING PLACEMENT AND DETAIL (SHOP) DRAWINGS FOR REVIEW. NO REINFORCING BARS SHALL BE INSTALLED UNTIL THE SHOP DRAWINGS HAVE BEEN REVIEWED AND RETURNED.
- 14. PRODUCTS AND MATERIALS: A. TYPE I/II PORTLAND CEMENT SHALL CONFORM TO ASTM-C150. B. AGGREGATES SHALL CONFORM TO ASTM C-33. C. REINFORCING BARS SHALL CONFORM TO ASTM A-615 (GRADE 60).
- FORMING SHALL BE OF WOOD, STEEL, OR FIBERGLASS OF SATISFACTORY QUALITY AND CONDITION NO ADMIXTURES SHALL BE ADDED TO THE CONCRETE UNLESS APPROVED BY THE ENGINEER. F. NON-SHRINK GROUT SHALL BE READY TO USE NON-METALLIC AGGREGATE AND DEVELOP A 7-DAY COMPRESSIVE STRENGTH OF 5000 PSI.
- 15. ALL REINFORCING SHALL BE SUPPORTED IN FORMS SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER IN ACCORDANCE WITH LATEST ADDITION OF THE CRSI "MANUAL OF STANDARD PRACTICE"
- 16. MINIMUM CONCRETE COVER (UNLESS NOTED OTHERWISE) SHALL BE: CONCRETE CAST AGAINST AND PERMANENTLY EXPO CONCRETE EXPOSED TO EARTH OR WEATHER: #6 BARS AND LARGER..
 - #5 BARS AND SMALLER.. CONCRETE NOT EXPOSED TO EARTH OR WEATHER: BEAMS AND COLUMNS... SLABS, WALLS, AND JOISTS..
- 17. SCHEDULED OR DETAILED REINFORCING STEEL SHALL NOT BE TACK WELDED FOR ANY REASON. WELDED REINFORCING STEEL SPLICES ARE NOT PERMITTED WITHOUT ENGINEER'S APPROVAL. WHERE WELDING IS
- 18. SLAB-ON-GRADE SHALL BE SAW CUT IMMEDIATELY AFTER CONCRETE HARDENS. THE CONTRACTOR SHALL SUBMIT LAYOUT AND CONSTRUCTION SCHEDULE ("SOFT CUT" ® INTERNATIONAL OR SIM.)
- 19. CONTROL JOINTS IN SLABS ON GROUND SHALL BE LOCATED AT 15'-0" MAXIMUM SPACING AND SHALL CREATE SECTIONS OF SLAB WITH A MAXIMUM ASPECT RATIO OF 1.5:1. CONTROL JOINTS SHALL BE SAWN AND SHALL BE A MINIMUM OF 1/4 OF THE SLAB THICKNESS DEEP IF CUT WITH A CONVENTIONAL SAW. OR 1" DEEP IF CUT WITH AN EARLY-ENTRY DRY-CUT SAW. THE CONTROL JOINTS SHALL BE SAWN AS SOON AS THE SAW BLADE CAN CUT THE CONCRETE WITHOUT DISPLACING THE AGGREGATE. CUT EVERY OTHER MESH WIRE AT THE CONTROL JOINT LOCATION PRIOR TO PLACING CONCRETE.
- 20. SAWN CONTROL JOINTS SHALL BE PLACED AS SOON AS CONCRETE IS ABLE TO BE SAWN WITHOUT PULLING AGGREGATE FROM FLOOR. SLABS SHALL NOT BE LEFT OVERNIGHT, OR ANY REASONABLE AMOUNT OF TIME WITHOUT SAWING JOINTS. WEATHER IS CRITICAL TO THE SCHEDULE OF SAWN JOINTS. IF LARGE AREAS OF SLAB ARE POURED AT ONE TIME, SEVERAL SAWS MAY BE REQUIRED SO THAT JOINTS ARE PLACED IN TIME TO PREVENT SHRINKAGE CRACKING. PROPER JOINTING OF THE SLAB IS CRITICAL. REFER TO THE ACI MANUAL OF CONCRETE PRACTICE FOR PROPER JOINTING TECHNIQUES.
- 21. BASE PLATES, ANCHOR BOLTS, SUPPORT ANGLES, ETC. BELOW GRADE SHALL BE COVERED WITH A MINIMUM OF 4" OF CONCRETE.
- 22. THE FLATNESS AND LEVELNESS OF THE SLAB-ON-GRADE SHALL BE DETERMINED ACCORDING TO ASTM E-1155 OR ACI 117, SLAB CLASS 5 (ACI 302) STANDARD TEST METHOD USING F NUMBERS. THE SPECIFIC FLATNESS AND LEVELNESS SHALL BE F/F-35 AND F/L-20.
- 23. WHERE FOOTINGS, WALLS, OR OTHER STRUCTURAL ELEMENTS INTERSECT, CORNER OR TEE, PROVIDE CORNER BARS WITH REQUIRED LAP LENGTHS TO PROVIDE CONTINUITY OF HORIZONTAL STEEL REINFORCING, UNLESS
- NOTED OTHERWISE. 24. PROVIDE A MINIMUM OF 3" COVER FOR ANCHOR BOLTS AND LOCATE HORIZONTAL REINFORCEMENT TO THE
- OUTSIDE FOR ANCHOR BOLT CONTAINMENT, UNLESS NOTED OTHERWISE. 25. WHERE DOWELS, BOLTS OR INSERTS ARE CALLED OUT TO BE ANCHORED TO CAST IN PLACE OR PRECAST CONCRETE ELEMENTS USING ADHESIVE ANCHORS, USE AN ANCHORAGE SYSTEM EQUAL TO "HILTI" HIT HY-200. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS. ALTERNATE ANCHORAGE SYSTEMS MAY BE USED WITH ENGINEER'S PRIOR APPROVAL.
- 26. PROVIDE TEMPORARY SHORING AND BRACING OF ALL STRUCTURAL AND MISCELLANEOUS ELEMENTS UNTIL
- 27. PLACEMENT OF CONCRETE, COLD WEATHER AND HOT WEATHER PRECAUTIONS, MATERIAL AND PROPORTIONING
- REQUIREMENTS, REBAR COVER AND DETAILING SHALL CONFORM TO THE REQUIREMENTS OF THE ACI 318.
- THE FOLLOWING: A. SLEEVES AND PIPES SHALL BE PLACED SO THAT REINFORCING STEEL CAN BE PLACED WITH THE
- SPECIFIED COVER AND CLEAR DISTANCE BETWEEN BARS. B. THE CONCRETE COVERING OF PIPES AND SLEEVES SHALL NOT BE LESS THAN 1". CLEAR DISTANCE
- BETWEEN SUCH PIPES AND SLEEVES SHALL NOT BE LESS THAN 1-1/2". C. CONDUITS AND PIPES PLACED IN SLABS SHALL NOT BE LARGER IN OUTSIDE DIAMETER THAN ONE-THIRD
- THE THICKNESS OF THE SLAB. IF IT IS NECESSARY TO USE LARGER CONDUIT OR PIPES, THE SLAB OR ADDED TO SUPPORT THE ADDITIONAL WEIGHT OF THE CONCRETE.

CONCRETE REINFORCEMENT LAP LENGTH SCHEDULE														
BAR	f'c = 3,0	000 PSI	f'c = 4,0	000 PSI	f'c = 4,500 PSI									
SIZE	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER								
#3	28"	22"	25"	19"	23"	18"								
#4	38"	29"	33"	25"	31"	24"								
#5	47"	36"	41"	31"	38"	30"								
#6	56"	43"	49"	37"	46"	35"								
#7	81"	63"	71"	54"	67"	51"								
#8	93"	72"	81"	62"	76"	59"								
	2.													

- 1. WHERE THE CLEAR SPACING BETWEEN BARS BEING SPLICED IS LESS THAN (2) BAR DIAMETERS, INCREASE THE LAP LENGTH BY 50%.
- INCREASE THE LAP LENGTH BY 50%.
- CAST BELOW THE BARS. 4. LAP SPLICE LENGTHS ARE PROVIDED FOR NORMAL WEIGHT CONCRETE.
- 5. SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS SHALL BE STAGGERED.
- 6. SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS CONTAINED TWO MATTS OF REINFORCEMENT SHALL NOT OCCUR IN THE SAME LOCATION.
- LENGTHS BY 30%.

3000 PSI

OSED TO EARTH	3 INCHES
	2 INCHES 1-1/2 INCHES
	1-1/2 INCHES 3/4 INCHES

APPROVED IT SHALL CONFORM TO AWS D1.4 STRUCTURAL WELDING CODE - REINFORCING STEEL.

CONCRETE HAS OBTAINED 80% OF DESIGN STRENGTH AND ALL PERMANENT BRACING ELEMENTS ARE INSTALLED. 28. ALL CONDUIT, SLEEVES AND PIPES EMBEDDED IN CONCRETE SHALL CONFORM TO SECTION 6.3 OF ACI 318 AND

TOPPING SHALL BE THICKENED, THE JOIST OR SLAB RIB SHALL BE WIDENED AND REINFORCING SHALL BE

WHERE THE BAR COVER IS LESS THAN OR EQUAL TO THE BAR DIAMETER 3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE WHERE LIGHTWEIGHT CONCRETE IS USED, INCREASE LAP SPLICE

MASONRY:

- 1. CODE: AMERICAN CONCRETE INSTITUTE (ACI) 530 (LATEST EDITION)
- . MASONRY SHALL BE LIGHTWEIGHT AND HAVE A MINIMUM COMPRESSIVE STRENGTH, fm, OF 1500 PSI BASED ON GROSS AREA. MORTAR SHALL CONFORM TO ASTM C270 TYPES S OR M. GROUT SHALL CONFORM TO ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8". 3. REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE.
- 4. CONTINUOUS WIRE REINFORCING (JOINT REINFORCING) SHALL BE GALVANIZED LADDER TYPE FABRICATED UNITS WITH A SINGLE PAIR OF 9 GAGE SIDE RODS AND 9 GAGE CONTINUOUS DIAGONAL CROSS RODS FABRICATED FROM COLD DRAWN STEEL WIRE COMPLYING WITH ASTM A82. JOINT REINFORCING SHALL BE SPACED AT 16" O.C. VERTICALLY IN ALL MASONRY WALLS UNLESS NOTED OTHERWISE.
- 5. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF VERTICAL CONTROL JOINTS. HORIZONTAL BOND BEAM AND LINTEL REINFORCING SHALL BE CONTINUOUS ACROSS VERTICAL CONTROL JOINTS. JOINT REINFORCING SHALL BE STOPPED EITHER SIDE OF VERTICAL CONTROL JOINTS.
- 6. CONTROL JOINTS SHALL BE LOCATED IN THE INTERIOR WALLS FOR THE BUILDING AT A SPACING NOT EXCEEDING 0.67 TIMES THE WALL HEIGHT (30 FEET MAX). JOINTS SHALL, AT A MINIMUM, BE LOCATED AT INTERSECTING WALLS AND JAMBS/LINTELS OF OPENING IN WALL.
- 7. GROUTED CELLS WITH VERTICAL REINFORCEMENT SHALL BE LOCATED ADJACENT TO CONTROL OR EXPANSION JOINTS.
- 8. ALL REINFORCED CELLS AND ALL CELLS BELOW FINISH FLOOR SHALL BE GROUTED SOLID. 9. WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL BLOCK CORE, IT SHALL NOT BE SLOPED
- MORE THAN ONE HORIZONTAL IN 6 VERTICAL. DOWELS MAY BE GROUTED INTO A CELL IN VERTICAL ALIGNMENT EVEN THOUGH IT IS IN AN ADJACENT CELL TO THE VERTICAL WALL REINFORCING. 10. REINFORCING STEEL SHALL BE SECURED IN PLACE BEFORE GROUTING STARTS.
- 11. VERTICAL BARS SHALL BE HELD IN POSITION WITH PRE-MANUFACTURED TIES AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 200 DIAMETERS OF THE REINFORCING NOR 10 FEET. 12. VERTICAL REINFORCING BARS SHALL HAVE A MINIMUM CLEARANCE OF 3/4 OF AN INCH FROM THE MASONRY
- AND NOT LESS THAN ONE BAR DIAMETER BETWEEN BARS. 13. VERTICAL CELLS THAT WILL BE GROUTED SHALL HAVE A VERTICAL ALIGNMENT TO MAINTAIN A CONTINUOUS
- UNOBSTRUCTED CELL AREA NOT LESS THAN 2-1/2" X 3". 14. GROUTING SHALL BE STOPPED 1-1/2" BELOW THE TOP OF A COURSE SO AS TO FORM A KEY AT THE POUR
- 15. GROUTING OF MASONRY BEAMS OVER OPENINGS SHALL BE DONE IN ONE CONTINUOUS OPERATION.
- 16. ALL BOLTS INSERTED IN THE WALLS SHALL BE GROUTED SOLIDLY INTO POSITION. 17. WHERE EXPANSION BOLTS OR OTHER ANCHORS ARE EMBEDDED INTO THE SIDE OF MASONRY WALLS, THE CELLS SHALL BE FULLY GROUTED AT LEAST 8" ABOVE AND BELOW EACH BOLT OR ANCHOR.
- 18. REINFORCING SHALL BE LAPPED A MINIMUM OF 36 INCHES. U.N.O.
- 19. WHERE NOT OTHERWISE SHOWN, MASONRY WALL FOOTINGS SHALL BE 12" THICK AND HAVE A MINIMUM OF 4 PROJECTION ON EACH SIDE OF WALL. REINFORCE WITH (3) #5 BARS CONTINUOUS. 20. WALLS SHALL BE GROUTED USING LOW LIFT GROUTING TECHNIQUES
- STRUCTURAL STEEL
- 1. CODE: LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, ANSI/AISC 360. STEEL SHALL CONFORM TO THE FOLLOWING GRADES:

WIDE FLANGE SHAPES	
STRUCTURAL TUBES	A500, GRADE B (Fy=46ksi)
STEEL PIPE	A53 (Fy=35ksi)
WELDING ELECTRODES.	

- 2. STRUCTURAL STEEL DETAILING, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF STEEL CONSTRUCTION" OF THE AMERICAN INSTITUTE STEEL CONSTRUCTION. SHOP DRAWINGS SHALL SHOW COMPLETE WELDING INFORMATION, BOTH SHOP AND FIELD, USING AMERICAN WELDING SOCIETY SYMBOLS UNLESS OTHERWISE INDICATED OR SHOWN, BOLTED CONNECTION SHALL BE MADE USING 3/4" DIAMETER BOLTS CONFORMING TO ASTM A325 UNLESS OTHERWISE NOTED. THEY SHALL BE INSTALLED AND INSPECTED IN STRICT CONFORMANCE WITH LATEST EDITION RSCS "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS."
- THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF ALL CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS. CONNECTIONS SHOWN ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. CONNECTION DETAILS INDICATED ON THE DRAWINGS SHALL BE INCORPORATED INTO FABRICATOR'S CONNECTION DESIGN, SEE SPECIFICATIONS.
- 4. SPLICING OF STEEL MEMBERS UNLESS SHOWN ON THE DRAWINGS IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.
- 5. NO HOLES SHALL BE CUT IN ANY STEEL ELEMENT UNLESS THEY ARE DETAILED ON THE DRAWINGS.
- 6. CONNECTIONS FOR NON-COMPOSITE BEAMS WHICH CANNOT CONFORM TO AISC TYPICAL CONNECTION DETAILS SHALL BE DETAILED IN ACCORDANCE WITH THE FOLLOWING A. WHERE BEAM REACTIONS ARE NOT SHOWN ON THE DRAWINGS, CONNECTIONS SHALL BE DESIGNED FOR ONE-HALF THE MAXIMUM UNIFORM LOAD WHICH THE BEAM WILL SUPPORT (AS SIMPLE SPAN)
 - FOR THE SPAN SHOWN ON THE CONSTRUCTION DOCUMENTS. B. WHERE CONNECTIONS ARE SUBJECT TO ECCENTRICITY, SUCH ECCENTRICITY SHALL BE TAKEN INTO ACCOUNT WHEN DESIGNING THE CONNECTION.
 - WHERE CONNECTIONS SUPPORT BEAMS WHICH ARE SUBJECT TO CONCENTRATED LOADS, SUCH CONCENTRATED LOADS SHALL BE TAKEN INTO ACCOUNT WHEN DESIGNING THE CONNECTION.
 - D. BOLTED CONNECTIONS SHALL BE BEARING TYPE WITH A325 BOLTS. MINIMUM DIAMETER OF ALL BOLTS SHALL BE 3/4". MAX. DIA. 1-1/8". PROVIDE AT LEAST 2 BOLTS PER CONNECTION. TIGHTENED BY THE "TURN-OF-THE-NUT" METHOD.
 - E. END CONNECTIONS OF FLOOR MEMBERS SHALL ACCOMMODATE END ROTATIONS SIMPLE, UNRESTRAINED BEAMS. FOR THIS PURPOSE, INELASTIC ACTION IN THE CONNECTION IS PERMITTED. F. COPED OR CUT ENDS OF MEMBERS SHALL BE REINFORCED WHERE REQUIRED TO SUSTAIN THE SPECIFIED REACTIONS
 - DESIGN OF SPECIAL CONNECTIONS BETWEEN STEEL FRAMING COMPONENTS, INCLUDING BUT NOT LIMITED TO: BRACE END CONNECTIONS; MOMENT-RESISTING CONNECTIONS, MODIFIED BEAM SEAT CONNECTIONS; AND MEMBER SPLICE CONNECTIONS, DESIGNED BY ANYONE OTHER THAN THE PROJECT STRUCTURAL ENGINEER-OF-RECORD, SHALL BE BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
- 7. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, THE SIZE OF WELDS SHALL NOT BE SMALLER THAN 1/4". THE CONTRACTOR SHALL PROVIDE, AT NO ADDITIONAL COST, ALL ADDITIONAL STEEL CONNECTIONS, GUYING ETC. REQUIRED FOR ERECTION.
- 9. OBTAIN ALL FIELD MEASUREMENTS REQUIRED FOR PROPER FABRICATION AND INSTALLATION OF WORK PRIOR TO DETAILING. PRECISE MEASUREMENTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 10. THE FABRICATOR SHALL BE RESPONSIBLE FOR ALL ERRORS OF DETAILING ON THE SHOP DRAWINGS, ERRORS IN FABRICATION, AND FOR THE CORRECT FITTING OF STRUCTURAL STEEL MEMBERS.
- 11. ALL TUBES REQUIRE AN END PLATE AT EACH END WITH A THICKNESS EQUAL TO OR GREATER THAN THE TUBE'S WALL THICKNESS.

1.	CONTRACTOR SHALL SUBMIT THE FOLLOWING AS A COMPLETE PACKAGE, DELAYED SUBMITTAL:	<u>1.</u>	POST-INSTALLED
	 A. SHOP DRAWINGS SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE INCLUDING PLACEMENT PLANS, ELEVATIONS, AND SECTIONS. a. INCLUDE LAYOUT, SPACINGS, SIZES, THICKNESSES, AND TYPES OF COLD-FORMED STEEL FRAMING; FABRICATION: AND FASTENING AND ANCHORAGE DETAILS. INCLUDING MECHANICAL FASTENERS. 	2	ANCHORS SHALL
	 b. INDICATE REINFORCING CHANNELS, OPENING FRAMING, SUPPLEMENTAL FRAMING, STRAPPING, BRACING, BRIDGING, SPLICES, ACCESSORIES, CONNECTION DETAILS, AND ATTACHMENT TO ADJOINING WORK. B. CALCULATIONS SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE FOR REVIEW BY ENGINEER OF RECORD. C. PRODUCT CATALOG WITH PROPERTIES OF ALL FRAMING AND ACCESSORIES. 	3.	ANCHORS TO AVC SUBSTITITION REC A ENGINEER LICE SPECIFIED.
	DESIGN, FABRICATION, AND ERECTION SHALL CONFORM TO LATEST ADDITION OF THE AISI "NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS" INCLUDING SUBSEQUENT SUPPLEMENTS ALL METAL STUDS SHALL BE GALVANIZED	4.	MECHANICAL ANC QUALIFICATION OI
	ALL STUDS, JOISTS, TRACK, BRIDGING, END CLOSURES AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE REQUIREMENTS OF AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" UNLESS NOTED OTHERWISE.	5. 6	ADHESIVE ANCHO QUALIFICATION OI MIXED) ADHESIVE
	ALL PRODUCTS TO BE MANUFACTURED BY A CURRENT MEMBER OF THE STEEL MANUFACTURERS ASSOCIATION. CONTRACTOR SHALL FURNISH COMPLETE FABRICATION AND ERECTION DRAWINGS PREPARED BY AN ENGINEER LICENSED IN THE PROJECT STATE FOR APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO THE COMMENCEMENT OF FABRICATION. INCLUDE PLACING DRAWINGS FOR FRAMING MEMBERS SHOWING SIZE AND GAGE DESIGNATIONS.	ю. 7.	CONCRETE SHALL INSTALLATION. CONCRETE AT TIM ADHESIVE ANCHO PERFORMANCE O
	NUMBER, TYPE, LOCATION AND SPACING. INDICATE SUPPLEMENTAL TRAPPING, BRACES, SPLICES, BRIDGING, ACCESSORIES AND DETAILS REQUIRED FOR PROPER INSTALLATION. MEMBER SIZE, GAGE AND SPACING OF EXTERIOR WALL STUDS AND ALL MEMBERS CONNECTIONS SHALL BE	8.	THE CONCRETE T BEEN CONDUCTEI TEMPERATURES.
	DESIGNED BY A SPECIALTY ENGINEER. SUBMIT CALCULATIONS FOR MEMBERS AND CONNECTIONS WITH SHOP DRAWINGS (SIGNED AND STAMPED BY LICENSED STRUCTURAL ENGINEER IN THE STATE IN WHICH THE PROJECT WILL BE CONSTRUCTED) TO ENGINEER OF RECORD FOR REVIEW. SHOP DRAWINGS SHALL SHOW WALL SECTIONS COORDINATED WITH DRAWINGS SHOWING FRAMING, ACCESSORIES, ANCHORAGE AND CONNECTION DETAILS. REVIEW OF SHOP DRAWINGS SHALL BE FOR CONFORMANCE WITHTHE CONTRACT DOCUMENTS REGARDING	9.	ADHESIVE ANCHO MANUFACTURERS MIXING NOZZLE, E
	ARRANGEMENT AND SIZES OF MEMBERS AND THE CONTRACTOR'S INTERPRETATION OF THE DESIGN LOADS AND CONTRACT DOCUMENT DETAILS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR THE DESIGN OF THE COLD-FORMED STEEL STRUCTURAL MEMBERS AND THEIR CONNECTIONS.	10.	ALL-THREADED RO ASSEMBLIES SHAI ANCHOR RODS SH COMPATIBLE NUT
(CAPABLE OF WITHSTANDING DESIGN LOADS WITHIN LIMITS AND CONDITIONS INDICATED BELOW. A. DESIGN LOADS: AS INDICATED ON DRAWINGS OR COMPUTED USING DESIGN CRITERIA PROVIDED. B. DESIGN FRAMING SYSTEMS TO WITHSTAND DESIGN LOADS WITHOUT DEFLECTIONS GREATER THAN THE FOLLOWING: a EXTERIOR WALL FRAMING: HORIZONTAL DEFLECTION OF 1/240 OF THE WALL HEIGHT. 1/360 OF THE	11.	NUTS, WASHERS, MECHANICAL EXP. ROD/ALLOY. GALV
	 WALL HEIGHT FOR SIMULATED STONE WALLS OR STUCCO FINISHES, 1/600 FOR BRICK OR STONE VENEER WALLS. b. INTERIOR WALL FRAMING: HORIZONTAL DEFLECTION OF 1/240 OF THE WALL HEIGHT UNDER A HORIZONTAL LOAD OF 5 LBF/SQ. FT. 	12.	OTHER APPROVEI REINFORCING BAR ASTM A615, A706,
	 c. ROOF RAFTER FRAMING: VERTICAL DEFLECTION OF 1/360 OF THE HORIZONTALLY PROJECTED SPAN FOR LIVE LOADS AND 1/240 FOR TOTAL LOADS OF THE SPAN. d. CEILING JOIST FRAMING: VERTICAL DEFLECTION OF 1/360 OF THE SPAN FOR LIVE LOADS AND 1/240 FOR TOTAL LOADS OF THE SPAN. 	13.	THE EMBEDMENT ANCHOR AFTER T
	DESIGN WALL FRAMING TO ACCOMMODATE HORIZONTAL DEFLECTION WITHOUT REGARD FOR CONTRIBUTION OF SHEATHING MATERIALS. FOR STRENGTH CALCULATIONS, WALLS SHALL BE DESIGNED AS BRACED AT THE STRAP SPACING (OR UNBRACED IF NO STRAPS ARE DESIGNATED) IF FULL-HEIGHT STRUCTURAL SHEATHING IS NOT INSTALLED ON BOTH SIDES OF STUDS. STRUCTURAL SHEATHING IS LIMITED TO PLYWOOD AND OSB. SHEATHING,	14.	ADHESIVE CARTR REGARDING TEMP REQUEST. THE US
	BRIDGING, AND BRACING SHALL BE INSTALLED PRIOR TO VERTICAL LOAD OF LOAD BEARING WALLS. DESIGN FRAMING SYSTEMS TO PROVIDE FOR MOVEMENT OF FRAMING MEMBERS LOCATED OUTSIDE THE INSULATED BUILDING ENVELOPE WITHOUT DAMAGE OR OVERSTRESSING, SHEATHING FAILURE, CONNECTION FAILURE, UNDUE	16.	WITH THE SPECIFI BE INSTALLED IN A ADHESIVE ANCHO
	TEMPERATURE CHANGE OF 120 DEG F (67 DEG C). PROVIDE TEMPORARY SHORES, GUYS, BRACES, AND OTHER SUPPORTS DURING ERECTION TO KEEP STRUCTURAL FRAMING SECURE, PLUMB, AND IN ALIGNMENT AGAINST TEMPORARY CONSTRUCTION LOADS EQUAL IN INTENSITY TO	17.	INSTALLATION OF LOADS SHALL BE I OR EQUIVALENT.
	DESIGN LOADS. REMOVE TEMPORARY SUPPORTS WHEN PERMANENT STRUCTURAL FRAMING CONNECTIONS AND BRACING ARE IN PLACE, UNLESS OTHERWISE INDICATED. DESIGN FRAMING SYSTEM TO MAINTAIN CLEARANCES AT OPENINGS, TO ALLOW FOR CONSTRUCTION TOLERANCES, AND TO ACCOMMODATE LIVE LOAD DEEL ECTION OF DRIMARY RULLING STRUCTURE AS FOLLOWS (INCLUDES SUP	18.	THE CONTRACTOR INCLUDING, BUT N VACUUMS, WREN
	 AND TO ACCOMMODATE LIVE LOAD DEFLECTION OF PRIMARY BUILDING STRUCTURE AS FOLLOWS (INCLUDES SLIP TRACKS, SLIP CLIPS, & BYPASS CLIPS): A. UPWARD AND DOWNWARD MOVEMENT EQUALS 1/240 TIMES THE SPAN OF THE UPPER BOUND PRIMARY STRUCTURAL ELEMENT (BEAM). 	19.	UNLESS OTHERW WHERE NOT OTHE DRILLED WITH A D
	MINIMUM MEMBER SIZES ARE AS FOLLOWS: <u>MEMBER FLANGE THICKNESS (MILS)</u> S (STUD) 162 33 T (TRACK) 200 33	20. 21.	ANCHOR HOLES S ADHESIVE INJECT DRILLED AND CLE
	MINIMUM YIELD STRENGTH (Fy) OF ALL SECTIONS 20 TO 18 GAUGE (33 TO 43 MILS) SHALL BE 33 KSI. MINIMUM YIELD STRENGTH (Fy) OF ALL SECTIONS 16 TO 12 GAUGE (54 TO 97 MILS) SHALL BE 50 KSI.	22.	A DRILLED ANCHC INSPECTOR, OR O
	ALL STUDS BACKING MASONRY OR STONE VENEER SHALL BE 43 MILS MIN. THE QUANTITY OF STUDS OR JOISTS PLACED ON EACH SIDE OF OPENINGS SHALL BE DESIGNATED BY THE SPECIALTY	23.	ADHESIVE SHALL
•	SELF-DRILLING TAPPING SCREW FASTENERS SHALL BE IN COMPLIANCE WITH ASTM C1513 OR AN APPROVED DESIGN OR RECOGNIZED DESIGN STANDARD. ALL SCREWS SHALL BE NON-CORROSIVE NO. 12-14 STANDARD SELF-DRILLING SCREWS UNLESS NOTED OTHERWISE ON DRAWINGS (DO NOT USE STAINLESS STEEL OR COPPER COATED	24.	ANCHOR ELEMEN OTHER COATINGS CONTAMINATION.
	ALL POWDER ACTUATED FASTENERS (PAF) SHALL BE 0.157" MIN. DIAMETER POWDER ACTUATED FASTENERS. LIMIT EMBED IN POST-TENSIONED SLABS TO BE 3/4" MAX.	25.	INSTALLED ADHES UNLESS SHOWN C ANCHORS DISPLA EXPENSE.
•	ALL SCREWS SHALL BE SPACED NO CLOSER THAN 1" ON CENTER UNLESS NOTED OTHERWISE ON DRAWINGS. MIN. EDGE DISTANCE FOR SCREWS SHALL BE 1".	26.	POST-INSTALLED
	SHALL BE CONNECTED TO TRACKS AT EACH SIDE. ALL BRIDGING MUST BE CONTINUOUS FOR FULL LENGTH OF WALL OR PROPERLY SPLICED WITH AN APPROVED	<u>TIN</u> 1.	<u>1BER:</u> CODES: STRUCTU
1.	SPLICE ELEMENT. ALL WELDING TO BE PERFORMED BY A QUALIFIED WIRE FEED WELDER PER ASTM A-108. FIELD WELDING SHALL BE DONE WITH E60 ELECTRODES. WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY STANDARD D1.3, LATEST EDITION. DO NOT WELD SHAPES LESS THAN 68 MILS (14 GAUGE).		LATEST ADDITION A. "NATIONAL B. PRODUCT C. PLYWOOD D. METAL PL/ CONNECT
2. 3.	APPLY ZINC COATING TO ALL WELDS. PROVIDE FULL DEPTH BLOCKING OR OTHER MEANS OF RESTRAINT AT JOIST BEARING SUPPORTS.	2. 3.	ALL TIMBER SHALL
•	PURLINS SHALL BE COLD-FORMED "Z" SECTIONS WITH STIFFENED FLANGES. FLANGE STIFFENERS SHALL BE SIZED TO COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF AISI AND LGSI. THEY SHALL BE PRE-PUNCHED AT THE FACTORY TO PROVIDE FOR FIELD BOLTING. THEY SHALL BE SIMPLE OR CONTINUOUS SPAN AS SHOWN. CONNECTION BOLTS WILL INSTALL THROUGH THE PURLIN WEBS, NOT PURLIN FLANGES.	4.	SHALL NOT BE PE COMPANY OR EQU TRUSS MEMBERS
•	EAVE STRUTS SHALL BE UNEQUAL FLANGE, COLD-FORMED "C" SECTIONS. SHOP- FABRICATE ALL FRAMING MEMBERS FOR FIELD BOLTED ASSEMBLY. THE SURFACES OF THE BOLTED	5.	SPECIFICATIONS F JOINT SHALL NOT
7.	CONNECTIONS MUST BE SMOOTH AND FREE FROM BURRS OR DISTORTIONS. THE ERECTION OF THE BUILDING SYSTEM SHALL BE PERFORMED BY A QUALIFIED ERECTOR, IN ACCORDANCE WITH THE APPROPRIATE ERECTION DRAWINGS, ERECTION GUIDES AND/OR OTHER DOCUMENTS FURNISHED BY MANUFACTURER, USING PROPER TOOLS, EQUIPMENT AND SAFETY PRACTICES.		UNTIL PERMANEN INSTALLED AND A TEMPORARY BRAG SUBMITTALS. ALL COMMENTARY (B)
		6. 7	PRE-ENGINEERED OF THE TRUSS PL
		7.	STAMPED SHOP D DRAWINGS SHALL
		9.	ROOF DECK SHAL
		10.	WOOD EMBEDDEI NOT LIMITED TO F
		11.	ALL PRE-ENGINEE
		12.	ALL PRE-ENGINEE INSPECTION AND STRUCTURAL ENG
		13.	BOLTS: A. BOLTS FO B. BOLT HOL C. A METAL F BETWEEN D. THE THRE E. IN HEAVY FOR A WO
		14.	PREDRILL HOLES A. CLEARANG NOMIN
			B. PREDRILL NOMINAL I

CHORS:

ANCHORS SHALL ONLY BE INSTALLED WHERE SPECIFIED ON THE CONTRACT DRAWINGS. POST-INSTALLED NOT BE USED FOR MISSING OR MIS-PLACED CAST-IN-PLACE ANCHORS WITHOUT PERMISSION FROM THE CORD. NG, AND LOCATING OF EXISTING REINFORCEMENT IS REQUIRED PRIOR TO INSTALLATION OF POST-INSTALLED OID INTERFERENCE AND/OR DAMAGE TO IN-PLACE REINFORCEMENT. QUESTS FOR SPECIFIED POST-INSTALLED ANCHORS SHALL BE ACCOMPANIED BY ADEQUATE CALCULATIONS BY ENSED IN THE PROJECT STATE THAT THE REQUESTED ANCHOR MEETS OR EXCEEDS THAT OF WHAT IS HORS SHALL BE TESTED AND ASSESSED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ACI 355.2 POST INSTALLED MECHANICAL ANCHORS IN CONCRETE AND COMMENTARY. DR SYSTEMS SHALL BE TESTED AND ASSESSED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ACI 355.4 F POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE (355.4) AND COMMENTARY. BULKMIXED (E.G., BUCKET-S ARE NOT PERMITTED. L HAVE A MINIMUM COMPRESSIVE STRENGTH (fc) OF 2,500 PSI AT THE TIME OF ADHESIVE ANCHOR ME OF ADHESIVE ANCHOR INSTALLATION SHALL HAVE A MINIMUM AGE OF 21 DAYS. FOR INSTALLATION OF DRS IN CONCRETE HAVING AN AGE LESS THAN 21 DAYS, TESTS SHALL BE CONDUCTED TO VERIFY THE F THE PRODUCT IN ACCORDANCE WITH ACI 355.4. EMPERATURE AT THE TIME OF ADHESIVE ANCHOR INSTALLATION SHALL BE AT LEAST 50°F UNLESS TESTING HAS ED IN ACCORDANCE WITH RECOGNIZED CRITERIA TO VERIFY PERFORMANCE IN CONCRETE AT LOWER ORS SHALL BE SUPPLIED AS AN ENTIRE SYSTEM. THE SYSTEM SHALL INCLUDE, BUT IS NOT LIMITED TO, PRINTED INSTALLATION INSTRUCTIONS (MPII) AS SUPPLIED WITH THE ADHESIVE, ADHESIVE CARTRIDGE, EXTENSION TUBE, DISPENSER, AND ALL REQUIRED EQUIPMENT FOR PROPERLY CLEANING THE DRILLED HOLE. OD (EYEBOLTS, THREADED STUDS, INTERNAL THREADED PARTS) TO BE USED IN ADHESIVE ANCHOR ALL CONFORM TO ASTM A36, F1554 OR OTHER APPROVED ANCHOR ASSEMBLY TYPES. (STAINLESS STEEL HALL BE AISI TYPE 304 OR TYPE 316.) THREADS SHALL BE UNC COARSE THREADS, UNLESS NOTED OTHERWISE. S AND WASHERS SHALL BE FURNISHED WITH THE ALL-THREAD ROD AND CONSIDERED PART OF THE ASSEMBLY. D GALVANIZED RODS, USE OVERSIZED TAPPED, HOT-DIPPED GALVANIZED NUTS. AND OTHER HARDWARE USED WITH AN ALL-THREADED BAR ADHESIVE ANCHOR SYSTEM OR WITH A ANSION ANCHOR SHALL HAVE A MATERIAL OR AN ALLOY DESIGNATION THAT IS COMPATIBLE WITH THE ANCHOR ANIZED ASSEMBLIES SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C. SALVANIZING IS NOT ACCEPTABLE. DISSIMILAR METAL ASSEMBLIES SHALL BE SEPARATED BY NYLON, EPDM, OR D NON-METALLIC WASHERS. ARS TO BE USED IN ADHESIVE ANCHOR ASSEMBLIES OR AS POST-INSTALLED REINFORCING SHALL CONFORM TO , A995, OR A1035 DEPTH SPECIFIED SHALL BE DEFINED AS THE DEPTH FROM THE BASE MATERIAL TO THE DEEPEST PART OF THE THE ANCHOR HAS BEEN FULLY INSTALLED. RIDGES SHALL BE STORED UNDER CONDITIONS IN COMPLIANCE WITH MANUFACTURER RECOMMENDATIONS IPERATURE, EXPOSURE TO SUNLIGHT, ETC. AND EVIDENCE OF COMPLIANCE SHALL BE MADE AVAILABLE UPON SE OF EXPIRED ADHESIVE, AS INDICATED BY THE EXPIRATION DATE ON THE CARTRIDGE, IS PROHIBITED. DRS SHALL BE INSTALLED BY QUALIFIED PERSONNEL TRAINED TO INSTALL ADHESIVE ANCHORS IN ACCORDANCE ICATIONS (ALT: CONTRACT DOCUMENTS). BOTH POST-INSTALLED EXPANSION AND ADHESIVE ANCHORS SHALL ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). DRS WITH DIAMETER GREATER THAN 3/8- INCH INSTALLED IN ORIENTATIONS FROM HORIZONTAL TO VERTICAL PISTON PLUG FOR THE ADHESIVE INJECTION. ADHESIVE ANCHORS IN ORIENTATIONS FROM HORIZONTAL TO VERTICAL TO SUPPORT SUSTAINED TENSION PERFORMED BY PERSONNEL CERTIFIED BY THE ACI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM R SHALL PROVIDE ALL EQUIPMENT REQUIRED TO INSTALL THE EXPANSION AND/OR ADHESIVE ANCHOR IOT LIMITED TO, DRILLS, SETTING TOOLS, CLEAN-OUT BRUSHES, BLOWOUT BULBS, OIL-FREE COMPRESSED AIR, CHES, ETC. ISE SPECIFIED, ANCHORS SHALL BE INSTALLED IN HOLES DRILLED WITH A ROTARY IMPACT HAMMER DRILL OR, ERWISE PROSCRIBED, A ROCK DRILL. WHERE SPECIFIED AND WHERE PERMITTED BY THE MPII, HOLES MAY BE DIAMOND CORE DRILL. IN ALL CASES, THE BIT DIAMETER SHALL BE IN ACCORDANCE WITH THE MPII. HALL BE THOROUGHLY CLEANED IN ACCORDANCE WITH THE PROCEDURES SPECIFIED IN THE MPII PRIOR TO ION ANED ANCHOR HOLES SHALL BE PROTECTED FROM CONTAMINATION AND WATER (E.G. RAIN) UNTIL THE TALLED. OR HOLE SHALL BE RE-CLEANED JUST PRIOR TO ADHESIVE INJECTION IF, IN THE OPINION OF THE ENGINEER, OWNER'S REPRESENTATIVE, THE HOLE HAS BECOME CONTAMINATED AFTER INITIAL CLEANING. BE INJECTED IN ACCORDANCE WITH THE MPII USING EQUIPMENT AND PROCEDURES AS SPECIFIED THEREIN C CONDITIONS ASSOCIATED WITH THE INJECTION. THIS SHOULD BE CLEARLY SPECIFIED IN THE MPII, IF NOT, ICT SHOULD BE SPECIFIED. ITS TO BE INSTALLED IN THE ADHESIVE SHALL BE CLEAN, OIL-FREE, AND FREE OF LOOSE RUST, PAINT, OR THREADS ON THE PROJECTING PORTION OF THE ANCHOR ELEMENT SHALL BE PROTECTED FROM ADHESIVE SIVE ANCHORS SHALL BE SECURELY FIXED IN-PLACE TO PREVENT DISPLACEMENT WHILE THE ADHESIVE CURES. OTHERWISE ON THE DRAWINGS, ANCHORS SHALL BE INSTALLED PERPENDICULAR TO THE CONCRETE SURFACE. CED BEFORE FULL ADHESIVE CURE SHALL BE CONSIDERED DAMAGED AND REPLACED AT THE CONTRACTOR'S REINFORCING BARS OR ALL-THREADED BARS SHALL NOT BE BENT AFTER BEING INSTALLED. JRAL WOOD IS TO BE DESIGNED, DETAILED, FABRICATED AND CONSTRUCTED IN ACCORDANCE WITH THE DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION" (ANSI/AWC NDS) BY AMERICAN WOOD COUNCIL. STANDARD PS 20 "AMERICAN SOFTWOOD LUMBER STANDARD" BY ALSC. CONFORMING TO APA-THE ENGINEERED WOOD ASSOCIATION. ATE-CONNECTED WOOD TRUSS DESIGN CONFORMING TO "DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE ED WOOD TRUSSES" BY TRUSS PLATE INSTITUTE (TPI) AND TPI QUALITY CONTROL MANUAL. . BE #2 SOUTHERN YELLOW PINE (MOISTURE CONTENT 19% MAX.) OR EQUAL UNLESS NOTED OTHERWISE. OOD CONNECTIONS SHALL EMPLOY PRE-MANUFACTURED METAL ANCHORS. TOE OR END NAILING OF WOOD RMITTED UNLESS NOTED OTHERWISE. METAL ANCHORS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE UAL. AND CONNECTOR PLATES SHALL BE DESIGNED IN ACCORDANCE WITH TRUSS PLATE INSTITUTE FOR THE LOADING STATED BELOW. CONNECTOR PLATES WITHIN 1 INCH OF EDGE OR END OF MEMBER AT ANY BE CONSIDERED IN DEVELOPING STRESS. NG SHALL BE INSTALLED AS NECESSARY TO HOLD THE TRUSSES TRUE AND PLUMB AND IN SAFE CONDITION T TRUSS BRACING AND BRIDGING CAN BE INSTALLED. ALL ERECTION AND PERMANENT BRACING SHALL BE LL COMPONENTS PERMANENTLY FASTENED BEFORE THE APPLICATION OF ANY LOADS TO THE TRUSSES. ALL CING LOCATIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW ON SHOP DRAWINGS PREFABRICATED WOOD TRUSSES ARE TO BE INSTALLED IN ACCORDANCE WITH BRACING WOOD TRUSSES

3WT-76) OR HFT-80, AS PUBLISHED BY THE TRUSS PLATE INSTITUTE.) METAL PLATE CONNECTED WOOD TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE LATEST ADDITION LATE INSTITUTE'S "BUILDING COMPONENT SAFETY INFORMATION BOOKLET" AND RELATED SUMMARY SHEETS. ER TRUSSES SHALL BE PERFORMED BY A STRUCTURAL ENGINEER LICENSED IN THE PROJECT STATE. DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION. SHOP BE SEALED BY THE DESIGN ENGINEER.

RUSS CONNECTIONS SHALL BE DESIGNED BY THE TRUSS DESIGN ENGINEER. TRUSS DESIGN ENGINEER SHALL RDWARE REQUIRED FOR THE CONNECTIONS. BE 5/8" PLYWOOD MIN. ATTACHED TO SUPPORTING MEMBERS WITH 10d NAILS AT 6" ON CENTER UNLESS

D OR PLACED ON CONCRETE IN DIRECT CONTACT WITH EARTH SHALL BE PRESSURE TREATED INCLUDING BUT OSTS, COLUMN SLEEPERS, SILLS AND SOLE PLATES.

ERED WOOD TRUSSES SHALL BE BRACED IN ACCORDANCE WITH TRUSS PLATE INSTITUTE'S "HANDLING, BRACING METAL PLATE CONNECTED WOOD TRUSSES, HIB-91" ERED WOOD TRUSS SHOP DRAWINGS SHALL BE AVAILABLE ON THE JOB SITE DURING THE TIMES OF SHALL BEAR CLEAR INDICATION THAT THEY HAVE BEEN REVIEWED AND APPROVED BY THE PROJECT SINEER-OF-RECORD.

R WOOD CONSTRUCTION SHALL BE ASTM A-307. LES IN WOOD SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER. PLATE. METAL STRAP OR WASHER NOT LESS THAN A STANDARD CUT WASHER (1/8" THICK MIN.) SHALL BE THE WOOD AND THE BOLT HEAD AND BETWEEN THE BOLT. EADED PORTION OF BOLTS SUBJECT TO WOOD BEARING SHALL BE KEPT TO A PRACTICAL MINIMUM.

TIMBER MEMBERS, THE BOLTS AND WASHERS SHALL BE COUNTER SUNK 3/4" MAX. IN THE MEMBER TO ALLOW DOD PEG COVER. FOR LAG BOLTS AS FOLLOWS:

ICE HOLE FOR LENGTH OF UNTHREADED SHANK: NAL DIAMETER + 1/16" HOLES FOR THREADED PORTION: DIAMETER + 1/16"

SCREWS, AND LAG SCREWS SHALL BE HOT-DIP GALVANIZED OR STAINLESS STEEL. WOOD CONNECTOR BE HOT-DIP GALVANIZED, "Z-MAX" GALVANIZED OR TYPE 316 STAINLESS STEEL. ALL GALVANIZED BE USED WITH GALVANIZED HARDWARE AND STAINLESS STEEL FASTENERS SHALL BE USED WITH _ HARDWARE.

SCHEDULE OF S	PECIAL INS	PEC	TIONS SEI	RVICES		SCHEDULE OF S	PECIAL INS	PEC	TIONS SE	RVICES	
MATERIAL / ACTIVITY	SERVICE	<u>Y/N</u>	EXTENT	AGENT	DATE COMPLETED	MATERIAL / ACTIVITY	SERVICE	<u>Y/N</u>	EXTENT	AGENT	<u>DATE</u> COMPLETEI
1705.1.1 Special Cases 1. Inspection of anchors post-installed in solid grouted masonry: Per research reports including			Periodic or as			a. Proportions of the site-prepared mortar b. Grade and size of prestressing tendons and anchorages	Field inspection Field Inspection	Y Y	Periodic Periodic		
verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, masonry unit, grout,	Field inspection	Y	required by the research report issued by an			c. Grade, type, and size of reinforcement, anchor bolts, and prestressing tendons and anchorages	Field Inspection	Y	Periodic		
masonry compressive strength, anchor embedment and tightening torque 2. Aggregate Pier Inspection: The special inspector's responsibilities include, but are not			approved source			e. Properties of thin-bed mortar for AAC masonry	Field Inspection	N	Level 2 - Periodic, Level 3 - Continuous	,	
limited to, review of the aggregate pier designer's use of soil parameters as presented in the project soils report and during construction verification of						f. Sample panel construction	Field Inspection	Y	Level 2 - Periodic, Level 3 - Continuous		
aggregate properties, type and number of lifts of aggregate, hole size and depths and top elevations	Field inspection	N	Periodic or as required by the research report			2. Prior to grouting, verify that the following are in compliance:					
of the pier elements, and applied energy. Additionally, results of qualitative tests on production aggregate pier elements such as			issued by an approved source			a. Grout space	Field Inspection	Y	Level 2 - Periodic, Level 3 - Continuous		
modulus load testing, uplift pull-out testing, bottom stabilization tests and dynamic cone penetration tests, shall be reviewed to verify compliance with						b. Placement of prestressing tendons and anchorages	Field Inspection	Ν	Periodic		
design specifications. 1705.2.1 Structural Steel Construction						c. Placement of reinforcement, connectors, and anchor bolts	Field Inspection	Y	Level 2 - Periodic, Level 3 - Continuous		
1. Fabricator and erector documents (Verify reports and certificates as listed in AISC 360, Section N 3.2 for compliance with construction documents)	Submittal Review	Y	Each submittal			d. Proportions of site-prepared grout and prestresssing grout for bonded tendons	Field Inspection	Y	Periodic		
3) Welded joints subject to fatigue when required by AISC 360, Appendix 3, Table A-3 1	Shop (3) or field radiographic or	Y	Periodic			 a. Materials and procedures with the approved 	Field In one office	V	Deviedie		
2. Material verification of structural steel	Shop (3) and field	Y	Periodic			submittals b. Placement of masonry units and mortar joint	Field Inspection	Y Y	Periodic		
 Structural steel welding: a. Inspection tasks Prior to Welding (Observe, or 	Shop (3) and field		Observe or			c. Size and location of structural members d. Type, size, location of anchors, including other	Field Inspection	Y	Periodic Level 2 - Periodic.		
perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-1)	inspection	Y	Perform as noted (4)			details of anchorage of masonry to structural members, frames, or other construction	Field Inspection	Y	Level 3 - Continuous		
perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-2)	Shop (3) and field inspection	Y	Observe (4)			e. vveiding of reinforcement f. Preparation, construction, and protection of masonry during cold weather (temperature below	Field Inspection	Y N	Periodic		
c. Inspection tasks After Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-3)	Shop (3) and field inspection	Y	Observe or Perform as noted (4)			40oF) or hot weather (temperature above 90oF) g. Application and measurement of prestressing	Field Inspection	N	Continuous		
d. Nondestructive testing (NDT) of welded joints: see Commentary						h. Placement of grout and prestressing grout for bonded tendons is in compliance	Field Inspection	Y	Continuous		
1) Complete penetration groove welds 5/16" or greater in risk category III or IV	Shop (3) or field ultrasonic testing - 100%	N	Periodic			i. Placement of AAC masonry units and construction of thin-bed mortar joints	Field Inspection	N	Level 2 - Periodic, Level 3 -		
2) Complete penetration groove welds 5/16" or greater in risk category !!	Shop (3) or field ultrasonic testing -	Y	Periodic			4. Observe preparation of grout specimens, mortar	Field Inspection	Y	Level 2 - Periodic, Level 3 -	,	
4) Fabricator's NDT reports when fabricator	Vorifity romatic		Fach submitted (5)			1705.5 Wood Construction	,		Continuous		
performs NDT 4. Structural steel bolting:	Shop (3) and field	Y	Each submittal (5)			1. ⊢or pretabricated wood structural elements, inspection of the fabrication process and assemblies in accordance with Section 1704.2.5.	In-plant review (3)	Y	Periodic		
a. Inspection tasks Prior to Bolting (Observe, or perform tasks for each bolted connection, in	irispection		Observe or			1. Prior to construction, verification of compliance of submittals	Field inspection	Y	Periodic		
accordance with QA tasks listed in AISC 360, Table N5.6-1)		Y	(4)			 For high-load diaphragms, verify grade and thickness of structural panel sheathing agree with approved building plans. 		N	Periodic		
b. Inspection tasks During Bolting (Observe the QA tasks listed in AISC 360, Table N5.6-2) b. Inspection tasks During Bolting (Observe the QA		Y	Observe (4)			3. For high-load diaphragms, verify nominal size of framing members at adjoining panel edges, nail or staple diameter and longth number of fractions.					
tasks listed in AISC 360, Table N5.6-2) 1) Pre-tensioned and slip-critical joints		•				lines, and that spacing between fasteners in each line and at edge margins agree with approved	Field inspection	N	Periodic		
a) Turn-of-nut with matching markings b) Direct tension indicator c) Twist-off type tension control holt		Y Y V	Periodic Periodic Periodic			building plans 4. Metal-plate-connected wood trusses: A Varification that permanent individual trues					
 d) Turn-of-nut without matching markings e) Calibrated wrench 		Y Y Y	Continuous Continuous			member restraint/bracing has been installed in accordance with the approved truss submittal	Field inspection	N	Periodic		
2) Snug-tight joints5. Visual inspection of exposed cut surfaces of		Y	Periodic			package when the truss height is greater than or equal to 60". b. For trusses spanning 60 feet or greater: verify					
galvanized structural steel main members and exposed corners of the rectangular HSS for cracks subsequent to galvanizing	Shop (3) or field inspection	Y	Periodic			temporary and permanent restraint/bracing are installed in accordance with the approved truss	Field inspection	Ν	Periodic		
6. Embedments (Verify diameter, grade, type, length, embedment. See 1705.3 for anchors)	Field inspection	Y	Periodic			1705.6 Soils					
7. Verify member locations, braces, stiffeners, and application of joint details at each connection comply with construction documents	Field inspection	Y	Periodic			adequate to achieve the design bearing capacity. 2. Verify excavations are extended to proper depth	Field inspection Field inspection	Y Y	Periodic		
1705.3 Concrete Construction 1. Inspection and placement verification of	Shop (3) and field	Y	Periodic			and have reached proper material. 3. Perform classification and testing of compacted fill materials.	Field inspection	Ŷ	Periodic		
 2. Reinforcing bar welding: a. Verification of weldability of bars other than 	inspection					4. Verify use of proper materials, densities, and lift thicknesses during placement and compaction of	Field inspection	Y	Continuous		
ASTM A706. b. Inspection of single-pass fillet welds 5/16 or less		Y	Periodic			controlled fill 5. Prior to placement of controlled fill, inspect subgrade and verify that site has been prepared	Field inspection	Y	Periodic		
in size. c. Inspection of all other welds.	Shop (2) and field	Y	Continuous			properly 1705.11.1 Structural Wood Special Inspections For V	Vind Resistance				
3. Inspection of anchors cast in concrete.4. Inspection of anchors post-installed in hardened	inspection	Y	Periodic			 Inspection of field gluing operations of elements of the main windforce-resisting system Inspection of nailing bolting anchoring and other 	Field inspection	Y	Continuous		
concrete members per research reports, or, if no specific requirements are provided, requirements shall be provided by the registered design			Periodic or as			fastening of components within the main windforce-resisting system, including wood shear	Shop (3) and field inspection	Y	Periodic		
professional and approved by the building official, including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning	Field inspection	Y	required by the research report issued by an			hold-downs. 1705.11.2 Cold-formed Steel Special Inspections For	Wind Resistance				
procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment			approved source			1.Inspection during welding operations of elements of the main windforce-resisting system	Shop (3) and field inspection	Y	Periodic		
and ugneening torque a. Adhesive anchors installed in horizontal or upward-inclined orientation that resist sustained		v	Continuous			2. Inspection of screw attachment, bolting, anchoring and other fastening of components within the main windforce-resisting system, including	Shop (3) and field	Y	Periodic		
tension loads. b. Mechanical and adhesive anchors note defined			Periodic			shear walls, braces, diaphragms, collectors (drag struts) and hold-downs.	inspection				
ın 4a. 5. Verify use of approved design mix	Shop (3) and field	Y	Periodic			1. Roof covering, roof deck and roof framing connections.	Shop (3) and field inspection	Y	Periodic		
6. Prior to placement, fresh concrete sampling, perform slump and air content tests and determine	Shop (3) and field	Y	Continuous			2. Exterior wall covering and wall connections to roof and floor diaphragms.	Shop (3) and field inspection	Y	Periodic		
temperature of concrete and perform any other tests as specified in construction documents. 7. Inspection of concrete and shotcrete placement	inspection Shop (3) and field					1705.12.1 Structural Steel Special Inspections for Se 1. Seismic force-resisting systems in SDC B, C, D, E, or F.	Shop (3) and field inspection	Y	In accordance with AISC 341		
for proper application techniques 8. Verify maintenance of specified curing temperature and techniques	inspection Shop (3) and field	Y Y	Continuous Periodic			2. Structural steel elements in SDC B, C, D, E, or F other than those in Item 1. including struts,	Shop (3) and field inspection	Y	In accordance with AISC 341		
emperature and techniques 9. Inspection of prestressed concrete:	Inspection Shop (3) and field inspection	•				conectors, chorus and foundation elements.	,				
a. Application of prestressing forceb. Grouting of bonded prestressing tendons		N N	Continuous Continuous								
10. Inspect erection of precast concrete members 11. Verification of in-situ concrete strength, prior to stressing of tandons in part tanding d	Review field testing	N	Periodic								
prior to removal of shores and forms from beams and structural slabs	and laboratory reports	Y	Periodic								
12. Inspection of formwork for shape, lines, location and dimensions	Field inspection	Y	Periodic								
13. Concrete strength testing and verification of compliance with construction documents	rieid testing and review of laboratory reports	Y	Periodic								
1705.4 Masonry Construction (A) Level 1, 2 and 3 Quality Assurance:											
1. Prior to construction, verification of compliance of submittals (B) Level 2 & 3 Quality Assurance:	Submittal Review	Y	Prior to Construction								
1. Prior to construction verification of f'm and f'AAC except where specifically required by the code	Testing by unit strength method or	Y	Prior to								
2. During construction, verification of Slump Flow and Visual Stability Index (VSI) when	prism test method Testing by unit strength method or	v	Periodio								
self-consolidating grout is delivered to project site.	prism test method Shop (3) and field		Periodia								
(C) Level 3 Quality Assurance:	inspection										
(C) Level 3 Quality Assurance:1. During construction, verification of fm and fAAC	Testing by unit strength method or	N	Periodic								
 (C) Level 3 Quality Assurance: 1. During construction, verification of f'm and f'AAC for every 5,000 SF 2. During construction, verification of proportions of 	Testing by unit strength method or prism test method	N	Periodic								
 (C) Level 3 Quality Assurance: 1. During construction, verification of f'm and f'AAC for every 5,000 SF 2. During construction, verification of proportions of materials as delivered to the project site for premixed or preblended mortar, prestressing grout, and grout other than self-consolidating grout. 	Testing by unit strength method or prism test method Field inspection	N N	Periodic								

			_		
<u>NRY WALL I</u>	<u>INTEL S</u>	CHEDUL	<u>_</u>		
TEEL LINTELS		Ν	ASONRY LINTEL	S	
*STEEL FOR EACH 4"	L	INTEL DEPTH	AND REINFORCI	NG **	
ALL THICKNESS	DEPTH	4" WALL	6" WALL	8" WALL	12" WALL
3 1/2X5/16 S.L.V.	7 5/8"	(1) #4	(1)#4 BOTT.	(2)#5 BOTT.	(2)#5 BOTT.
3 1/2X5/16 S.L.V.	7 5/8"	(1) #4	(1)#4 BOTT.	(2)#5 BOTT.	(2)#5 BOTT.
3 1/2X5/16 S.L.V.	7 5/8"	(1) #4	(1)#5 BOTT.	(2)#5 BOTT.	(2)#5 BOTT.
6x3/8	7 5/8"	-	(1)#5 BOTT.	(2)#5 BOTT.	(2)#6 BOTT.
6x3/8	7 5/8"	-	(1)#5 BOTT.	(2)#5 BOTT.	(2)#6 BOTT.
6x1/2	15 5/8"	-	(2)#5 BOTT.	(2)#5 BOTT.	(2)#6 BOTT.
3 1/2 L.L.V.	15 5/8"	-	(2)#5 BOTT.	(2)#5 BOTT.	(2)#6 BOTT.

SECTION

GENERAL NOTES

- 1. SEAL ALL INTERNALLY-LINED AND NON-INSULATED DUCT AND PIPING PENETRATIONS THRU WALLS WITH ANGLES / RINGS AND CAULK. FOR EXTERNALLY- INSULATED DUCT & PIPE, PROVIDE PACKED INSULATION IN WALL OPENING AROUND INSULATION. MAINTAIN CONTINUOUS DUCT INSULATION THROUGH ALL WALL PENETRATIONS.
- 2. SUPPORT ALL SUSPENDED MECHANICAL EQUIPMENT
- WITH ALL-THREAD RODS. 3. PROVIDE STRUCTURAL BRACING FOR ALL LOAD
- BEARING WALL AND ROOF PENETRATIONS. 4. ALL PENETRATIONS OF DUCTWORK, PIPING CONDUITS, AND VENTS THRU FIRE-RATED AND SMOKE-RATED BARRIERS SHALL HAVE FIRESTOP AND/OR SMOKE STOP PROTECTION IN ACCORDANCE WITH THE GEORGIA STATE MINIMUM BUILDING CODE.
- 5. ALL HVAC UNITS 2,000 CFM AND OVER SHALL HAVE A DUCT-MOUNTED SMOKE DETECTOR (PROVIDED BY DIV.16 AND INSTALLED AND INTERLOCKED FOR SHUTDOWN UNDER DIV. 23), IN THE SUPPLY AIR DUCT, & SHALL SHUTDOWN UNIT UPON DETECTION OF SMOKE. SEE SPECIFICATIONS.
- 6. SEE ARCHITECTURAL PLANS FOR EXACT LOCATIONS & ELEVATIONS OF ALL CEILING DEVICES, HIGH-SIDEWALL DEVICES, AND LOUVERS.

BLACK.

- 7. ALL VISIBLE SURFACES THRU RETURN/TRANSFER/ EXHAUST GRILLES/REGISTERS SHALL BE PAINTED FLAT
- 8. ALL BALANCING OF AIR DISTRIBUTION DEVICES SHALL OCCUR AT THE TAKE-OFF MANUAL VOLUME CONTROL DAMPERS (WHERE PROVIDED). FOR THESE APPLICATIONS, ALL DEVICE-MOUNTED DAMPERS -RADIAL DAMPERS, OBDs, ETC., SHALL BE SET FULL OPEN, AS THESE DAMPERS ARE INTENDED ONLY FOR TEMPORARY SEASONAL ADJUSTMENTS BY THE OWNER.
- 9. PROVIDE FLEXIBLE DUCTWORK CONNECTIONS AT ALL UNITS WITH FANS @ INLETS & OUTLETS.
- 10. HOLD ALL PIPING AND DUCTWORK TIGHT TO STRUCTURE IN <u>ALL</u> AREAS. NOTE THERE ARE HIGH CEILINGS IN MANY AREAS WHICH WILL REQUIRE CLOSE COORDINATION WITH OTHER TRADES DURING SHOP DRAWING PREPARATION AND DURING CONSTRUCTION.

	SPLIT SYSTEM HEAT PUMP SCHEDULE																
			COOL	ING		HEATING				INDOOR UNIT				BASIS OF DESIGN - TRANE			
MARK	MBH		E.A.T.		MIN.	JELECTRIC	REV. CYCLE	REV. CYCLE		SA	ESP	OA	HP		TYPE		
	TOTAL	SEN	DB ° F	WB*F	SEER/EER	HEATER KW	MBH (2)			CFM	IN.WC.	CFM					
FCU-1/HP-1	43.6	30.3	74.1	62.1	16.0/12.3	24	24.6	2.60	7.50	1500	0.60	195	1	GAM5B0C48	UF	4TWR5042	
FCU-2/HP-2	21.8	17.6	74.8	62.7	14.3/11.7	9.6	14.6	2.60	7.50	800	0.60	105	1/3	TEM4B0B24	UF	4TWR4024	
FCU-3/HP-3	21.8	16.9	75.1	62.8	14.3/11.7	9.6	14.6	2.60	7.50	750	0.60	105	1/3	TEM4B0B24	UF	4TWR4024	
TVDE																	

 \overline{UF} = FLOOR MOUNTED UPFLOW CONFIGURATION

NOTES (APPLIES TO ALL UNITS)

1 REQUIRED COOLING UNIT CAPACITIES ARE AT 95°F DB AMBIENT OAT. (2) REVERSE CYCLE HEATING AND C.O.P. BASED ON 17^rF OUTDOOR TEMPERATURE. HEATER KW IS BASIS OF DESIGN STANDARD SIZE.

(3) HEATER KW SCHEDULED AT 240V. REFER TO DIV. 26 FOR SYSTEM VOLTAGE. (4) PROVIDE AND INSTALL IN FAN COIL UNIT (FCU), ONE GLOBAL PLASMA SOLUTIONS GPS CI-2 BI-POLAR IONIZATION UNIT (OR EQUAL). UNIT SHALL BE MOUNTED AT THE FAN INLET AND POWERED FROM THE UNIT'S POWER BOARD.

			DI	UCTLESS	S SPLI	T SYST	EM SC	CHED	ULE					
			HP	AC		COOLIN	1G ①				BASIS OF DESIGN - TRANE			
MARK	SPACE SERVED	FCU ARRANGEMENT	WEIGHT (LBS)	WEIGHT (LBS)	NOM. TONS	CAPACITY MBH	E.A.T. DB/WB [•] F	SEER	EER	SUPPLY AIR FAN CFM	INDOOR UNIT (AC) TRANE	OUTDOOR UNIT (HP) TRANE		
AC/CU-1	I.T., 124	HIGH-SIDEWALL	103	92	1	12/9	80/67	21.3	13.3	385	ТРКА0121LA10А 🕚	TRUZA0121KA70NA 🖉		

(1) UNIT CAPACITIES ARE AT 95°F DB AMBIENT OAT.

2 PROVIDE HAIL GUARD (HG-A6) AND AIR OUTLET GUIDE (PAC-SG59SG-E).

3 PROVIDE OPTIONAL HIGH LIFT CONDENSATE DRAIN PUMP (SUITABLE FOR AC-UNITS UP TO 5.6 TONS); 5.0 GPH MAX. FLOW RATE; 10' MAX. SUCTION HEAD; 33' MAX. DISCHARGE HEAD (@ 1 GPH) W/ ALL REQUIRED AC

	FAN SCHEDULE]		ELEC	TR	IC	HEATER SCH	IEDULE				
MARK	CFM	E.S.P. "W.C.	FAN DA FAN RPM	TA	DRIVE	MAX. SONES	CONTROL	FAN TYPE	WEIGHT LBS.	BASIS OF DESIGN GREENHECK U.N.O.		MARK EIH-1-4		KW 9.5	CFM -	SERVES	BASIS MARKEL FSS	OF DESIGN	REMARKS
F-TE-1	75	0.25	893	14W	DIRECT	0.6	INTERLOCK	CEILING EXHAUST	17	SP-A110		EDH-1	ELECTRIC DUCT HEATER			KITCHEN MAKE-UP AIR	GREENHECK	IDHE	<u> (3)</u>
F-VENT-1	555	0.625	1478	321W	DIRECT	2.0	CONTINUOUS	INLINE CABINET FAN	36	CSP-A780 (1)	7								1
F-EXH-1	2500	0.579	1750	1/2HP	DIRECT	34	TXSCON02	WALL-MOUNTED PROP	76	AER-24-EXH (2)	7	1 CONTROLL	ED BY WALL THERMOSTAT.						-
F-EXH-2	2500	0.579	1750	1/2HP	DIRECT	34	TISCON02	WALL-MOUNTED PROP	76	AER-24-EXH (2)	5		MANUFACTURE MOUNTING RIGIE) MO	UNTIN	G.			
F-KHE-1	800	1.0	1655	1/4HP	BELT	9.4	SWITCH	WALL-MOUNTED KHE	82	CUE-100-A (3	7	(3) DISCHARG	E AIR TEMPERATURE SENSOR	SET	AT 60)°F.			
MAF-1	640	0.5	1263	1/4HP	DIRECT	5.0	INTERLOCK	CENTRIFUGAL INLINE	40	SQ-100-VG (1	2								
 PROVIDE MOUNTE PROVIDE SPARE 	ALUM. N D AT FA CAST A BELT SE	WHEEL, BA AN, & HAN LUMINUM E T, UL-LIST	CKDRAFT I IGING ISOL BLADES, BA	DAMPER, U ATORS. ALL BEARIN WALL HOU	L LISTING	, THERMAL "PREMIUM" FLUSH EXT	OVERLOAD, SOL EFFICIENT MOT	ID-STATE SPEED CONTROLLE OR, AUTO BELT TENSIONER, CTOR COATING FOR ENTIRE	R										

ASSEMBLY, CLOSURE ANGLES, EXTENDED LUBE LINES, WIRING PIGTAIL, MOTOR-OPERATED DAMPER W/ACTUATOR & END SWITCH ③ PROVIDE SIDEWALL-MOUNTED, ALUMINUM HOUSING, WITH BACKWARD INCLINED ALUMINUM WHEEL, DRAIN TROUGH, BALL-BEARING EC-TYPE MOTOR, 10" THICK WALL SLEEVE, UL-705(SC) LISTED, NEMA 3R DISCONNECT, JUNCTION BOX MOUNTED & WRED, HINGE-MOUNT, HIGH TEMP. WALL SLEEVE SEAL, GREASE PAN KIT, & GREASE TRAP.

					KI	TCHEN HOOD SCHEDULE	
MARK	EXH.	SP	VEL.	LENGTH	WIDTH	TYPE	
KH-1	800	0.48	1600	48	48	TYPE 1, BAFFLE FILLER SINGLE LINE WALL-EXHAUST ONLY WALL CANOPY	
						3	GILW

1 PROVIDE ANSUL R-102 WET CHEMICAL FIRE SUPPRESSION SYSTEM, MOUNTED IN ADJACENT TO KITCHEN CABINET.

THE ANSUL SYSTEM SHALL BE INTERLOCK WITH KITCHEN HOOD SUPPLY FAN AND ELECTRICAL SHUT-OFF.

FIELD COORDINATE EXHAUST COLLAR LOCATION TO MISS STRUCTURAL BEAMS ABOVE

(4) PERFORATED STAINLESS STEEL SUPPLY PLENUM.

- 11. IT IS VERY IMPORTANT TO PROTECT ALL EQUIPMENT AND DUCTWORK FROM WEATHER, CONSTRUCTION DUST, AND VARIOUS DEBRIS DURING THE ENTIRE CONSTRUCTION PHASE. ONCE EQUIPMENT AND DUCTWORK IS ON SITE, IT SHALL BE COVERED AND SEALED FOR PROTECTION. ONCE EQUIPMENT AND DUCTWORK IS INSTALLED, OPENINGS AND DUCTS ENDS SHALL BE COVERED AND SEALED TO PREVENT INNER (AND OUTER FOR EQUIPMENT) SURFACES FROM DUST AND DEBRIS. COVERINGS SHALL BE REMOVED ONLY WHEN ALL GYP.-BOARD SANDING HAS TAKEN PLACE IN AFFECTED AREAS AND FINAL DIFFUSER, REGISTER, AND GRILLE CONNECTIONS ARE MADE. SPECIAL ATTENTION SHALL BE SHOWN DURING ALL GYP.-BOARD SANDING. ALL SURFACES OF EQUIPMENT AND DUCTWORK SHALL BE CLEANED OF THIS DUST ONCE SANDING IS COMPLETED IN AFFECTED AREA (NOTE ALL EQUIPMENT AND DUCTWORK SHALL REMAIN SEALED-OFF DURING SANDING).
- 12. ARCHITECT SHALL SELECT/APPROVE FINISH COLOR OF ALL EXPOSED EQUIPMENT (GRILLES, REGISTERS, DIFFUSERS, LOUVERS, DUCTWORK, ETC.).

DIF	FUSERS.	REGISTERS, AND GRILLES SCHEDULE			HVAC LEGEN	D	
				HVAC DUCT SYN	IBOLS		PIPING SYMBOLS
<u>MARK</u>	<u>NECK</u>	DESCRIPTION	DOUBLE-LINE	SINGLE-LINE	DESCRIPTION	SYMBOL	DESCRIPTION
S-1A(S)	6"ø 8"ø	SQUARE, ARCHITECTURAL PLAQUE, CEILING SUPPLY AIR DIFFUSER: ALL ALUMINUM CONSTRUCTION, 2'x2' LAY-IN CEILING-TYPE PANEL (1'x1' PANEL FOR	<u>► 12x6</u> <u>►</u>	12x6	DUCT (WIDTH X DEPTH)	ю	ELBOW UP
S-16 S-1C	8♥ 10 " ø	S-1AS), 360° PATTERN. PROVIDE DB BLANK-OFFS WHERE SHOWN ON PLANS. TITUS OMNI-AA OR APPROVED EQUIVALENT PRODUCT.				+Ð	ELBOW DOWN
S–1D S–1E	12 " ø 14 " ø			$-\!$	(SUPPLY OR DISCHARGE)	ABBREVIATIONS	DESCRIPTION
		CEILING RETURN /TRANSFER AIR ECCORATE ORILLE - R-14-24-12 RANEL SIZE	₹ [x]		DUCT TURNED DOWN	AC	AIR CONDITIONING UNIT
R–1A R–1B	22"x10" 22"x22"	R-1B-24x24 PANEL SIZE, R-1C-24x48 PANEL SIZE. $1/2^{\circ}x1/2^{\circ}$ (SINGLE CORE) ALLING CORE LAX-IN T-BAR CELLING MODULE			(SUPPLI OR DISCHARGE)	AFF	ABOVE FINISHED FLOOR
R-1C	22"x46"	TITUS 50F OR APPROVED EQUIVALENT PRODUCT.			(RETURN OR EXHAUST)	BHP	BRAKE HORSEPOWER
					DUCT TURNED DOWN (RETURN OR EXHAUST)		
	SIZE AS	CONSTRUCTION, 1/2" SPACING, O DEGREES FIXED FRONT 0.125" THICK BLADES			DUCT TURNED UP	CFM	CUBIC FEET PER MINUTE
E-1	SHOWN ON DRAWINGS	FOR E-1 ONLY.			(OA SUPPLY OR DISCHARGE)	СКТ	CIRCUIT
					DUCT TURNED DOWN	CLG	CEILING
	SIZE AS	SIGHT-PROOF, ALL-ALUMINUM DOOR GRILLE - INVERTED V-BLADES PARALLEL		R		COP	COEFFICIENT OF PERFORMANCE
DG	SHOWN ON DRAWINGS	HOLES, & AUXILIARY INSIDE FRAME. TITUS CT-700 OR APPROVED EQUIVALENT PRODUCT.				CU	CONDENSING UNIT
			₹ □		DROP	CV	CONSTANT VOLUME
ALL DEVICES'	FINISH COLOR	SHALL BE SELECTED/APPROVED BY THE ARCHITECT.		$\overline{}$	DUCT TURN WITH	DD	DIRECT DRIVE
)	RADIUS ELBOW	۴	DEGREES FAHRENHEIT
					SQUARE TURN WITH VANED ELBOW	DB	DRY BULB
						ΔT	DELTA T
					(ALWAYS WITH VCD)	DX	DIRECT EXPANSION COIL
				====	LINED DUCTWORK	EAT	ENTERING AIR TEMPERATURE
				_	FIRE DAMPER IN	EER	ENERGY EFFICIENCY RATIO
				FD	HORIZONTAL DUCT	ELECT	ELECTRICAL
					FIRE DAMPER IN VERTICAL DUCT	ERD	EQUIPMENT ROOM DRAIN
			↓ FD	FD		ESP	EXTERNAL STATIC PRESSURE
					FLEXIBLE AIR DUCT	EUH	ELECTRIC UNIT HEATER
				I	VOLUME CONTROL	EWH	ELECTRIC WALL HEATER
)-[-)		DAMPER	FDL	FIRE-RATED DOOR LOUVER
					MOTOR OPERATED	GIH	GAS INFRARED HEATER
					DAMPER	GER GPH	GAS/ELECTRIC ROOFTOP UNIT
						GPM	GALLONS PER MINUTE
					DUCT SMOKE DETECTOR	HP	HORSEPOWER, HEAT PUMP
					AIR FLOW INTAKE OR	IEER	IN LEGRATED ENERGY EFFICIENCY RATIO
			, S	, S	SWITCH	IN	INCHES
				(T)	THERMOSTAT/SENSOR	KHE	KITCHEN HOOD EXHAUST
DECION			H H	Ĥ	RELATIVE HUMIDITY SENSOR	LAT	LEAVING AIR TEMPERATURE
DESIGN -	IRANE		© ©	©	CARBON MONOXIDE SENSOR	LBS	POUNDS
	OOR UNIT (HF TRANE		(N02)	N02	NITROGEN DIOXIDE SENSOR	MAU	MAKE-UP AIR UNIT
C TRUZAO)121KA70NA	Ø	1-─	\	3/4" DOOR UNDERCUT	MBH	BTU per HOUR x 1000
						MIN	MINIMUM
			I			MOD	DAMPER
CESSORIES.				MARK (SE	E SCHEDULE)	NO2	NITROGEN DIOXIDE
			√ <u>5−1</u> 250	AIR DISTR	IBUTION DEVICE	OA	OUTSIDE AIR
				CFM (AIR	FLOW)	OAT	OUTSIDE AIR TEMPERATURE
IC HEAT	ER SCH	EDULE				OE/OED	OPEN END DUCT - COVER WITH 1/2" WIRE MESH
			ABBREVIATIONS (CONT.)		DESCRIPTION (CONT.)	OBD	OPPOSED BLADE DAMPER
– APARATU		MARKEL ESS SERIES-9520-3 (1)(2)	T'STAT	THERMOSTAT	CONTROLLER	R R	REFRIGERANT PIPING, RETURN
	MAKE-UP AIR	GREENHECK IDHE (3)	TYP	TYPICAL		RA	RETURN AIR
			UNO	UNLESS NOTE	D OTHERWISE	REV	REVERSE
UNTING. AT 60°F.				VOLUME CON	TROL DAMPER	S	SWITCH
			WB	WET BULB		S, SA	
			WC	WATER COLUM	AN	SEN.	SENSIBLE
			WT	WEIGHT		SS	STAINLESS STEEL
						TE TA	
						TOT	TOTAL/SENSIBLE

OF DESIGN HECK U.N.O.

SPECIFIED IN SECTION 22 1000 FOR SEALING ANNULAR SPACES AROUND PIPES, CONDUITS, WIRING, ETC. PENETRATING FIRE RESISTIVE CONSTRUCTION IS LISTED UNDER THE FOLLOWING UL CLASSIFIED SYSTEMS.

3M FIRESTOP SYSTEMS UL DIRECTORY

PLASTIC PIPE CAU2001 CAU2003 F3195/RC-1 CAU2003 PF0 CAU2021 F3195/RC-1 CAU2003 F3195/RC-1 CAU2003 F3195/RC-1 CAU2003 F3195/RC-1 CAU2003 F3195/RC-1 CAU2004 F3195/RC-1 CAU2005 F3195/RC-1 CAU2005 F3195/RC-1 CAU2005 F3195/RC-1 CAU2005 F3195/RC-1 CAU2005 F3195/RC-1 CAU2005 F3195/RC-1 CAU2005 F3195/RC-1 CAU2005 F3195/RC-1 CAU2005 C3195/F3195 CAU2005 CAU	PENETRATING ITEM	CONCR	RETE	GYPSUM	WOOD FLOOR/CEILING
METAL_PIPE CAUTOR = CP2SM/SS/L CAUTOR = CP15F/ST95 CAUTOR = CP2SM/SS/L CAUTOR = CP2SM CAUTOR = CP2S	PLASTIC PIPE	CAJ2001 CAJ2002 CAJ2003 CAJ2029 CAJ2005 FA2001 FA2001 FA2002 - FS195/RC-1, CS195	CAJ2027 - FS195/CP25WB CAJ2028 - FS195/Putty CAJ5022 - FS195/RC-1 PP Insulated CAJ2040 CAJ2044 FA2011FS195/ CP25WB	WL2002 FS195/RC-1 WL2005 PPD WL2003 WL2004 FS195/CP25WB WL2033 WL2031 CS195/FS195, WL2032 CP25WB	FC2002 FC2007 FC2007 FC2008 FC2008 FC2009
NSULATED METAL PIPE CAJS001 - CP25 Coulks CAJS005 - F195 CAJS005 - F195/CP25 CAJS02 - F5195/CP25 CAJS005 - F5195/CP25 F5195/CP25 S195/CP25WB F5195/CP25WB F5105/CP25WB F5105/CP25WB </td <td>METAL PIPE</td> <td>CAJ1001 - CP25N/S,S/L CAJ1006 - CS195/FS195 CP 25 CAJ1007 - FS195 CAJ1009 CAJ1010 CAJ1013 CAJ1014 CAJ1015 J CAJ1017 - FD150 CAJ1021 - FD150 CAJ1027 - Putty CAJ1032 - 2000/2003 CAJ1044 - CP25WB</td> <td>CAJ1052 – CP25N/S,S/L CAJ1058 CAJ1063 _ 2000/2003 CAJ1066 – CP 25 CAJ1091 – CP25 Caulks CAJ1092 – CP25WB CAJ1112 – CP 25/FS195 CBJ1020 – CP25 Caulks, CS195/FS195 CBJ1021 – CP25 Caulks/Putty CBJ1031 _ 2001 Foam CBJ1032 _ 2001 Foam FA1002 – CP25 Caulks</td> <td>WL1001 WL1010 - 2000 WL1016 - CP25WB WL1017 - CP25N/S,S/L WL1032 - CP25 Caulks WL1036 - FD150 WL1037 - CS195/FS195, CP25WB</td> <td>FC1002 - CP25N/S,S/L FC1003 - 2000 FC1006 - CP25WB</td>	METAL PIPE	CAJ1001 - CP25N/S,S/L CAJ1006 - CS195/FS195 CP 25 CAJ1007 - FS195 CAJ1009 CAJ1010 CAJ1013 CAJ1014 CAJ1015 J CAJ1017 - FD150 CAJ1021 - FD150 CAJ1027 - Putty CAJ1032 - 2000/2003 CAJ1044 - CP25WB	CAJ1052 – CP25N/S,S/L CAJ1058 CAJ1063 _ 2000/2003 CAJ1066 – CP 25 CAJ1091 – CP25 Caulks CAJ1092 – CP25WB CAJ1112 – CP 25/FS195 CBJ1020 – CP25 Caulks, CS195/FS195 CBJ1021 – CP25 Caulks/Putty CBJ1031 _ 2001 Foam CBJ1032 _ 2001 Foam FA1002 – CP25 Caulks	WL1001 WL1010 - 2000 WL1016 - CP25WB WL1017 - CP25N/S,S/L WL1032 - CP25 Caulks WL1036 - FD150 WL1037 - CS195/FS195, CP25WB	FC1002 - CP25N/S,S/L FC1003 - 2000 FC1006 - CP25WB
INSULATED CABLE CAJ2029 - FS195 CAJ3001 - CP25N/S,S/L CAJ3007 - CP25N/S,S/L CAJ3007 - 2001 Foam CAJ3017 - 2001 Foam CAJ3018 - Putty CAJ3003 - CP25WB CAJ3014 - 2000/2003 CAJ3044 - FS195/CP25WB BULX900/2009 WL2032 - FS195/CP25WB Putty FC3001 - CP25N/S,S/L FC3002 - 2000/2003 CABLE TRAY CAJ4003 - CS195,FS195, CAJ3029 - 2000/2003 CBJ40021 CBJ4001 CAJ3016 - Putty 2001 Foam CAJ3016 - Putty WL3002 - CS195/FS195, WL3032 - CP25 Caulks FC3007 - CP25WB FC3008 - FS195/CP25WB WL3032 - CP25 Caulks BUSWAY CAJ6001 - CS195,FS195, CAJ2001 - CP25N/S,S/L CAJ2013 - CP25WB CAJ6002 - 2000/2003 FA6001 - CP25N/S,S/L CBJ4002] 2001 Foam CAJ2013 - Putty WL4004 - CS195/FS195, CP25 Caulks CAJ6000 - CS195/FS195, CP25WB/Putty BUSWAY CAJ2006 - FS195, CAJ2013 - CP25WB CAJ2019 - 2000/2003 FA6001 - CP25N/S,S/L CAJ2013 - CP25WB CAJ2019 - 2000/2003, CAJ2019 - 2000/2003 WL2006 FS195/CP25WB CAJ2016 - CS195/FS195, CP25WB/Putty BLANK CAJ2006 - FS195, CAJ2007 - CP25N/S,S/L CAJ0008 - 2000/2003 J900B - P25WB GBJ0020 J001 Foam WJ0003 J001 Foam CP25WB(Floor) J900J JCP25WB(Floor) J900J JCP25WB(Fl	INSULATED METAL PIPE	CAJ5001 - CP25 Caulk CAJ5002 - FS195 CP25 Caulks CAJ5003 - FS195/RC-1 CAJ5005 - Putty CAJ5009 - 2000/2003 CAJ5017 - FS195/CP 25 CAJ5022 - FS195(Plastic Pipe)	CAJ5024 - FS195/ CP25 Caulks CAJ5030 - CS195/FS195 CAJ5041 - 2000/2003 CBJ5002 - CP25 Caulks CBJ5003 - FS195 CBJ5004 - FS195/CS195 FA5001 - CP25N/S,S/L	WL5001 WL5002 FS195/CP25 WL5009 WL5010 FS195/CP25WB WL5011 - CP25WB WL5032 - 2000	FC5002 – FS195, CP25WB
CABLE TRAY CAJ4003 - CS195,FS195, CP 25 CAJ4006 - FD150 CBJ4001 CBJ4003 CBJ4005 CBJ4021 CBJ4020 2001 Foam WL4004 - CS195/FS195, CP25WB/Putty BUSWAY CAJ6001 - CS195,FS195 CP 25 CAJ6002 - 2000/2003 FA6001 - CP25N/S,S/L VL2006 WL2013 FS195/CP25WB GLASS PIPE CAJ2006 - FS195 CAJ2013 - CP25WB CAJ2019 - 2000/2003 CP25WB WL2006 WL2013 FS195/CP25WB BLANK CAJ0004 - CS195 CAJ0007 - CP25N/S,S/L or Putty CAJ0008 - 2000/2003 CAJ0009 - CP25WB CBJ0019 CBJ0020 WJ0003 2001 Foam VL2006 WL2013 FS195/CP25WB CONSTRUCTION GAP CAJ0034 - 201 Foam CBJ1031 - 2000/2003 J900B - FS195(Floor) CP25N/S,S/L Cover Plate J900C - CP25N/S,S/L CP25WS/S,S/L COVER Plate J900C - CP25N/S,S/L CP25WS/S,S/L COVER Plate VL8002 - CS195,FS195, CP25N/S,S/L COVER Plate MIXED PENETRATING ITEMS CAJ8001 CS195,FS195, CAJ8013 - CP 25,FS195, CBJ8005 - CS195,FS195, CAJ8013 - CP 25,FS195, CBJ8005 - CS195,FS195, CBJ8005 - CS195,FS195, CAJ8013 - CP 25,FS195, CAJ8013 - CP 25,FS195, CBJ8005 - CS195,FS195, CAJ8001 - CP 25,FS195, CAJ8001 - CP 25,FS195, CAJ8001 - CP 25,FS195, CAJ8001 - CP 25,FS195, CAJ8001 - CP 25,FS195, CAJ8005 - CS195,FS195, CAJ8005 - CS195,FS195, CAJ8005 - CS195,FS195, CAJ8005 - CS195,FS195,MP VL8002 - CS195,FS195, CP 25 VL8002 - CS195,FS195, CP 25 Misc. Mechanical (Vent Ducts) CAJ7001 - CP25 Caulks CAJ7003 - CP25WB FC7001 - CP25 Caulks	INSULATED CABLE	CAJ2029 - FS195 CAJ3001 - CP25N/S,S/L CAJ3005 - CS195/FS195 CAJ3007 - 2001 Foam CAJ3009 CAJ3010 2000/2003 CAJ3011 - 2001 Foam CAJ3014 FD150 CAJ3015 FD150 CAJ3021 - Putty CAJ3029 - 2000/2003	CAJ3030 - CP25WB CAJ3031 - CP 25 CAJ3041 - 2000/2003 CAJ3044 - FS195/CS195 CAJ3058 - FS195/RC-1 CBJ3016 - CS195/FS195 CP 25 CBJ3017 - CP25N/S,S/L or Putty WJ3015 WJ3016 2001 Foam	WL2032 - FS195/CS195, CP25WB WL2033 - FS195/CP25WB, Putty WL3008 WL3002 WL3015 - CP25N/S WL3030 - FS195/CP25WB WL3031 - Putty WL3032 - CP25 Caulks	FC3001 - CP25N/S,S/L FC3002 - 2000/2003 FC3007 - CP25WB FC3008 - FS195
BUSWAY CAJ6001 - CS195,FS195 CAJ6002 - 2000/2003 FA6001 - CP25N/S,S/L ML2006 FS195/CP25WB GLASS PIPE CAJ2006 - FS195 CAJ2013 - CP25WB CAJ2019 - 2000/2003 WL2003 FS195/CP25WB Image: CP25WB Image: CP25WS Image: CP25WS Image: CP25WS Image: CP25W/S,S/L, OP25WB Image: CP25WB Image: CP25W/S,S/L, OP25WB Image: CP25WB Image: CP25WB Image: CP25W/S,S/L, OP25WB Image: CP25WB	CABLE TRAY	CAJ4003 - CS195,FS195, CP 25 CAJ4006 - FD150 CBJ4001 CBJ4003 2001 Foam	CBJ4005 CBJ4021 CBJ4022 CBJ42200 CBJ4200	WL4004 - CS195/FS195, CP25WB/Putty	
GLASS PIPE CAJ2006 - FS195 CAJ2013 - CP25WB CAJ2019 - 2000/2003 WL2006 WL2013 FS195/CP25WB BLANK CAJ0004 - CS195 CAJ0007 - CP25N/S,S/L Or Putty CAJ0008 - 2000/2003 CBJ0019 CBJ0020 WJ0003 2001 Foam 2001 Foam CONSTRUCTION GAP CAJ0034 - 2001 Foam CBJ1031 - 2000/2003 J900B - FS195(Floor) CP25N/S,S/L Cover Plate J900C - CP25N/S,S/L, CP25N/S,S/L Cover Plate J900C - CP25NB(Floor) U900J CP25N/S,S/L CONSTRUCTION CAJ8001 CS195,FS195, CP25N/S,S/L COVER Plate J900C - CP25NB(Floor) CP25N/S,S/L COVER Plate CAJ8006 CBJ8004 CP25 CP25N/S,S/L COVER Plate SAB004 CP25 CP25N/S,S/L COVER Plate CAJ8006 CBJ8004 CP25 CP25N/S,S/L COVER Plate SAB004 CP25 CP25N/S,S/L COVER Plate WL8002 - CS195,FS195, CP 25 SAB004 CP25 CP 25 CP25N/S,S/L CP 25 SAB004 CP25 CP 25 CP25N/S,S/L CP 25 SAB004 CP 25 CP 25 CP25N/S,S/L CP 25 SAB004 CP 25 CP 25 CP25N/S,S/L CP 25 SAB004 CP 25 CP 25 CP 25,FS195, CP 25 SAB004 CP 25 CP 25 CP 25,FS195 SAB004 CP 25 CP 25 CP 25 CP 25 SAB004 CP 25 CP 25 CP 25 SAB04 CP 25 CP 25 CP 25	BUSWAY	CAJ6001 - CS195,FS195 CP 25	CAJ6002 – 2000/2003 FA6001 – CP25N/S,S/L		
BLANK CAJ0004 - CS195 CAJ0007 - CP25N/S,S/L or Putty CAJ0008 - 2000/2003 CAJ0009 - CP25WB CBJ0019 CBJ0020 WJ0003 2001 Foam CONSTRUCTION GAP CAJ0034 - 2001 Foam CBJ1031 - 2000/2003 J900B - FS195(Floor) CP25N/S,S/L COVER Plate J900C - CP25N/S,S/L, CP25WB(Floor) U900J J900C - CP25N/S,S/L, CP25WB(Floor) U900J CP25N/S,S/L, CP25N/S,S/L MIXED PENETRATING ITEMS CAJ8001 CBJ8004 CS195,FS195, CP 25 CAJ8013 - CP 25,FS195, CBJ8005 - CS195,FS195, CBJ8005 - CS195,FS195, CBJ8005 - CS195,FS195, CBJ8005 - CS195,FS195, CBJ8001 - CP 25,FS195 CAJ8006 CBJ8001 2001 Foam WL8002 - CS195,FS195, CP 25 FC7001 - CP25 Caulks Misc. Mechanical (Vent Ducts) CAJ7001 - CP25 Caulks CAJ7003 - CP25WB FC7001 - CP25 Caulks FC7001 - CP25 Caulks	GLASS PIPE	CAJ2006- FS195 CAJ2013- CP25WB	CAJ2019 - 2000/2003	WL2006 WL2013 FS195/CP25WB	
CONSTRUCTION GAP CAJ0034 - 2001 Foam CBJ1031 - 2000/2003 J900B - FS195(Floor) CP25N/S,S/L Cover Plate J900C - CP25N/S,S/L CP25WB(Floor) U900J CP25N/S,S/L U900L CP25N/S,S/L U900L CP25N/S,S/L U900L CP25N/S,S/L U900L CP25N/S,S/L U900L CP25N/S,S/L CP25N/S,S/L U900L CP25N/S,S/L CP25N/S,S/L U900L CP25N/S,S/L CP25N/S,S/L U900L CP25N/S,S/L CP25N/S,S/L U900L CP25N/S,S/L CP25N/S,S/L U900L CP25N/S,S/L CP25N/S,S/L U900L CP25N/S,S/L CP25N/S,S/L CP25N/S,S/L U900L CP25N/S,S/L CP25N/S,S/L CP25N/S,S/L U900L CP25N/S,S/L CP25N/S,S/L CP25N/S,S/L U900L CP25N/S,S/L CP25N/S,S/L U900L CP25N/S,S/L CP25N/S,S/L CP25N/S,S/L U900L CP25N/S,S/L CP25N/S,S/L U900L CP25N/S,S/L CP25N/S,S/L CP25N/S,S/L U900L CP25N/S,S/L CP25N/S,S/L U900L CP25N/S,S/L CP25N/S,S/L CP25N/S,S/L U900L CP25N/S,S/L CP25N/S,S/L U900L CP25N/S,S/L CP25N/S,S/L U900L CP25N/S,S/L CP25N/S,S/L U900L CP25N/S,S/L CP25N/S,S/L CP25N/S,S/L U900L CP25N/S,S/L CP25N/S,S/L CP25N/S,S/L CP25N/S,S/L U900L CP25N/S,S/L CP25CALS CP25N/S,S/L CP25/S/S,S/L CP25/S/S,S/L CP25/S/S,S/L CP25/S/L CP25/S/L CP25/S/L CP25/S/L CP25/S/L CP25/S/L CP25/S/L CP25/S/L CP25/S/L CP25/S/L CP25/S/L CP25/S/L CP25/S/L CP25/S/L CP25/S/L CP25/S/L CP25/S/L	BLANK	CAJ0004 – CS195 CAJ0007 – CP25N/S,S/L or Putty CAJ0008 – 2000/2003 CAJ0009 – CP25WB	CBJ0019 CBJ0020 WJ0003		
MIXED PENETRATING ITEMS CAJ8001 CS195,FS195, CBJ8004 CP 25 CAJ8013 - CP 25,FS195 CBJ8005 - CS195,FS195,MP FA8001 - CP 25,FS195 CAJ8006 CBJ8001 2001 Foam WL8002 - CS195,FS195, CP 25 State of the comparison of t	CONSTRUCTION GAP	CAJ0034 - 2001 Foam CBJ1031 - 2000/2003 J900B - FS195(Floor) CP25N/S,S/L Cover Plate	J900C - CP25N/S,S/L, CP25WB(Floor) U900J CP25N/S,S/L U900L (Wall)		
Misc. Mechanical CAJ7001 - CP25 Caulks (Vent Ducts) CAJ7003 - CP25WB FC7001 - CP25 Caulks	MIXED PENETRATING ITEMS	CAJ8001 CS195,FS195, CBJ8004 CP 25 CAJ8013 - CP 25,FS195 CBJ8005 - CS195,FS195,MP FA8001 - CP 25,FS195	CAJ8006 CBJ8001 2001 Foam	WL8002 - CS195,FS195, CP 25	
	Misc. Mechanical (Vent Ducts)	CAJ7001- CP25 Caulks CAJ7003- CP25WB			FC7001 – CP25 Caulks

FIRE – RATED PARTITION PENETRATION SYSTEMS NO SCALE

1. Floor or Wall Assembly — Min 5 in. (127 mm) thick reinforced normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 6 in. (152 mm).

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Metallic Sleeve — (Optional) - Nom 6 in. (152 mm) diam (or smaller) electrical metallic tubing, steel conduit or cast iron pipe cast or grouted into floor or wall assembly, flush with floor or wall surfaces.

3. Through Penetrants — One metallic pipe or conduit to be centered within the firestop system. A nom annular space of 3/4 in. (19 mm) is required within the firestop system. Pipe or conduit to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or conduits may be used:

A. Steel Pipe — Nom 4 in.(102 mm) diam (or smaller) Schedule 5 (or heavier) steel B. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or

steel conduit. 4. Packing Material — Min 3 in. (76 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor as required to accommodate the required thickness of fill material. Packing material to be centered in walls mid depth and recessed to allow for installation of fill material.

5. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor. In walls, fill material to be applied on each side of packing material.

3M COMPANY — Types FB-1000 NS, FB-1003SL (floors only), FB-2000 or FB-2000+ (floors

*Bearing the UL Classification Mark

1. Wall Assembly - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 or V400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 in. by 4 in. (25 mm by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC. B. Gypsum Board* - Nom 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 14–1/2 in (368 mm) for wood stud walls and 18 in. (457 mm) for steel stud walls.

The hourly F Rating of the firestop system is 1 hr when installed in a 1 hr fire rated wall and 2 hr when installed in a 2 hr fire rated wall.

2. Through Penetrants - One metallic pipe or tubing to be centered within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:

A. Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe. B. Copper Tubing – Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing. C. Copper Pipe – Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. Pipe Covering* - Nom 1 in. or 2 in. (25 mm or 51 mm) thick hollow cylindrical heavy density glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory—applied self—sealing lap tape. Transverse joints sealed with metal fasteners or with butt strip tape supplied with the product. When nom 1 in. (25 mm) thick pipe covering is used, the annular space between the pipe covering and the circular cutout in the gypsum wallboard layers on each side of the wall shall be min 1/4 in. to max 3/8 in. (6 mm to max 10 mm). When nom 2 in. (51 mm) thick pipe covering is used, the annular space between the pipe covering and the circular cutout in the gypsum wallboard layers on each side of the wall shall be min 1/2 in. to max 3/4 in. (13 mm to max 19 mm).

See Pipe and Equipment Covering – Materials (BRGU) category in Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

The hourly T Rating of the firestop system is 3/4 hr when nom 1 in. (25 mm) thick pipe covering is The hourly T Rating of the firestop system is 1 hr and 1-1/2 hr when nom 2 in. (51 mm) thick pipe covering is used with 1 hr and 2 hr fire rated walls, respectively.

4. Firestop System - Installed symmetrically on both sides of wall assembly. The details of the firestop system shall be as follows:

A. Fill, Void or Cavity Materials* - Wrap Strip - Nom 1/4 in. (6 mm) thick intumescent elastomeric material faced on one side with aluminum foil, supplied in 2 in. (51 mm) wide strips. Nom 2 in. (51 mm) wide strip tightly wrapped around pipe covering (foil side out) with seam butted. Wrap strip layer securely bound with steel wire or aluminum foil tape and slid into annular space approx 1-1/4 in. (32 mm) such that approx 3/4 in. (19 mm) of the wrap strip width protrudes from the wall surface. One layer of wrap strip is required when nom 1 in. (25 mm) thick pipe covering is used. Two layers of wrap strip are required when nom 2 in. (51 mm) thick pipe covering is used.

3M COMPANY - FS-195+

B. Fill, Void or Cavity Materials^{*} - Caulk or Sealant - Min 1/4 in. (6 mm) diam continuous bead applied to the wrap strip/wall interface and to the exposed edge of the wrap strip layer approx 3/4 in. (19 mm) from the wall surface.

3M COMPANY - CP 25WB+, IC 15WB+, FireDam 150+ caulk or FB-3000 WT sealant *Bearing the UL Classification Marking

1. Floor or Wall Assembly - Lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Min thickness of 1. Floor or Wall Assembly - Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal concrete floor or wall is 2-1/2 in. (64 mm) for 1 hr F Rating and 4-1/2 in. (114 mm) for 2 or 3 hr F Rating. Wall may also be weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 18 in. (457 mm). constructed of any UL Classified Concrete Blocks^{*}. Max area of opening 36 sq ft (3.4 m2) with one dimension of opening being 36 in. (914 mm)or less. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers. manufacturers.

1A. Steel Sleeve (Optional, not shown) - Nom 10 in. (254 mm) (or smaller) Schedule 10 2. Pipe or Conduit - Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe, nom 6 in. (152 mm) diam (or heavier) steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a (or smaller) steel conduit, nom 4 in. (102 mm) diam (or smaller) steel EMT or nom 6 in. (152 mm) diam (or smaller) Type L (or max of 2 in. (51 mm) above top of floor or beyond either surface of wall. heavier) copper tubing. Min clearance between pipes 1 in. (25 mm) Min clearance between pipe and wall of through opening 1/4 T Rating is 0 Hr when sleeve is used. in. (6 mm). When single nom 4 in. (102 mm) diam (or smaller) pipe, conduit or EMT is installed in nom 7 in(178 mm) diam (or smaller) circular through opening, min clearance between pipe, conduit or EMT and wall of through opening is 0 in. (0 mm) 2. Through Penetrant – Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) (point contact). Pipes and conduits rigidly supported on both sides of floor or wall assembly.

copper pipe, nom 12 in. (305 mm) diam (or smaller) service weight (or heavier) cast iror soil pipe, nom 12 in. (305 mm) diam (or smaller) Class 50 (or heavier) ductile iron pressure pipe or nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe centered in the opening and rigidly supported on both sides of the floor or wall assemblv.

3. Pipe Covering* – Nom 1/2 in. to 2 in. (13 mm to 51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied selfsealing lap tape. Transverse joints secured with metal fasteners or with butt strip tape supplied with the product.

See Pipe and Equipment Covering - Materials* (BRGU) category in Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used. 4. Firestop System - The details of the firestop system shall be as follows:

A. Packing Material - Min 1 in. (25 mm) thickness of firmly packed mineral wool batt insulation used as a permanent form. Packing material to be recessed from top surface of floor or sleeve or from both surfaces of wall as required to accommodate the required thickness of caulk fill material (Item B). B. Fill, Void or Cavity Material* - Caulk or Sealant - Applied to fill the annular space flush with the top surface of the floor or sleeve or flush with both surfaces of wall. When

nom pipe covering thickness is 2 in. (51 mm), min thickness of caulk fill material is 2 in. 5. Fill, Void or Cavity Materials* - Graphite Seal, Caulk, Sealant or Putty - Generous application of caulk or putty to be (51 mm). When nom pipe covering thickness is 1-1/2 in (38 mm) or less, min thickness applied around the base of the wrap strip (or individual pipe) at its egress from the intumescent sheet(s) in addition to of caulk fill material is 1 in. (25 mm) completely covering the wrap strip up to the interface(s) with the pipe, pipe insulation and/or cable bundle. One layer of 1/2 in. The hourly F and T Ratings of the firestop system are dependent upon the thickness of (13 mm) x 1/16 in. (1.6 mm) adhesive backed graphite intumescent seal positioned under intumescent sheet around entire the floor or wall, the size of pipe, the thickness of pipe covering material and the size of perimeter of through opening or min 1/4 in. (6 mm) diam continuous bead of caulk or putty applied to edge of intumescent the annular space (between the pipe covering material and the edge of the circular sheet at its interface with surface of floor or through opening), as shown in the following table: wall around entire perimeter of through opening. Prior to installation of the steel strip, slit in intumescent sheet covered with 3M COMPANY - CP 25WB+ caulk SystemONOVIVebio10 nom 1/4 in. (6 mm) diam bead of caulk (Item 5). Steel cover strip secured to galv steel backer of intumescent sheet with steel

*Bearing the UL Classification Marking May 09, 2013

F Rating — 2 Hr

T Rating — 0 Hr

1. Wall Assembly — The fire rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features: A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64

mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of openin exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed

higher than the diam of the penetrating item such that, when the penetrating item is centered in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing in all four sides. . Gypsum Board* — Two layers of nom 5/8 in. (16 mm) thick gypsum wallboard, as specified in the individual Wall and Partition Design. Max diam of opening is 14-1/2 in. (368 mm) for wood stud

walls and 25-1/2 in. (648 mm) for steel stud walls.

Through Penetrants - One metallic pipe, conduit of tubing to be centered within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe — Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe. A nom annular space of 3/4 in. (19 mm) is required within the firestop system. B. Steel Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe. A nom annular

space of 3/4 in. (19 mm) is required within the firestop system. C. **Conduit —** Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or steel conduit. A nom annular space of 3/4 in. (19 mm) is required within the firestop system.

D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing. A nom annular space of 3/4 in. (19 mm) is required within the firestop system. 3. Fill, Void or Cavity Material* — Sealant — Min 1-1/4 in. (32 mm) thickness of fill material applied within the annulus on both surfaces of wall. Additional fill material to be installed such that a min 1/4 in. (6) mm) crown is

formed around the penetrating item. **3M COMPANY** — Types FB-1000 NS, FB-2000, FB-2000+. *Bearing the UL Classification Mark

NO SCALE

opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm)

3. Fill, Void or Cavity Materials* - Wrap Strip - Nom 1/4 in. (6 mm) thick intumescent elastomeric material faced on one side with aluminum foil, supplied in strips. Min 2 in. (51 mm) wide strip wrapped around pipe/conduit (foil side exposed) and secured in place with steel wire or aluminum foil tape. Wrap strip to extend approx 7/8 in. (22 mm) beyond each face of the intumescent sheet (Item 4). When nom 6 in. (152 mm) diam (or smaller) pipe, conduit or EMT is installed in through opening, no wrap strip is required on pipe, conduit or EMT for 2 hr F Rating. 3M COMPANY - FS-195+

4. Fill, Void or Cavity Materials* - Intumescent Sheet - Rigid aluminum foil-faced sheet with galv steel sheet backer. Sheet cut to tightly follow the contours of the pipe wrap strip (or individual pipe) and with a min lap of 2 in. (51 mm) on all sides of the through opening. Sheet to be installed with the galv steel sheet backer exposed (aluminum foil facing against floor or wall surface). Sheet secured to top surface of floor and both sides of solid concrete or concrete block wall using min 3/16 in. (5 mm) diam by 1-1/4 in. (32 mm) long steel masonry fasteners with min 1-1/4 in. (32 mm) diam steel washers. Max spacing of fasteners not to exceed 6 in. (152 mm) OC. As an alternate when (1) the max pipe or conduit size is nom 4 in. (102 mm) diam, (2) each pipe or conduit is provided with a layer of wrap strip and (3) no bundled cables or insulated pipes are installed in the through opening, the intumescent sheet may be installed on bottom surface of floor or on only one side of solid concrete wall. 3M COMPANY - CS-195+

sheet-metal screws or steel rivets spaced max 2 in. (51 mm) OC on each side of slit. 3M COMPANY - E-FIS or Ultra GS seals, CP 25WB+ caulk, FB-3000 WT sealant, MP+ Stix putty. (Note: L Ratings apply only when CP 25WB+ caulk or FB-3000 WT sealant is used.)

6. Steel Cover Strip - Min 2 in. (51 mm) wide strip of min 0.015 in. (0.39 mm) thick (30 gauge) galv steel centered over entire length of slit made in intumescent sheet (Item 4) to permit installation about the pipe/cable bundle. Prior to installation of the steel strip, slit in intumescent sheet covered with nom 1/4 in. (6 mm) diam bead of caulk (Item 5). Steel cover strip secured to galv steel backer of intumescent sheet with steel sheet-metal screws or steel rivets spaced max 2 in. (51 mm) OC on each side of slit.

7. Support Channel (Not Shown) - When area of through opening exceeds 1440 sq in. (9.290 cm2), an intermediate support channel shall be installed flush with top surface of floor or both surfaces of wall. Support channels to be min 1-5/8 in. by 1-5/8 in. (41 mm by 41 mm) and formed of min 0.093 in. (2.36 mm) thick (No. 12 gauge) painted or galv steel. Ends of steel channel bolted or welded to steel angles anchored to inside walls of through opening. When steel support channels are centered beneath butted seams of intumescent sheets, no steel cover strip (Item 6) is required over butted seam. Intumescent sheet secured to steel support channels with steel sheet metal screws in conjunction with min 1-1/4 in. (32 mm) diam steel fender washers. When support channel is used beneath butted seam of intumescent sheets, fasteners spaced max 3 in. (76 mm) OC on each side of butted seam. When support channel is located away from intumescent sheet seam, fasteners spaced max 6 in. (152 mm) OC. Prior to installation of the intumescent sheet(s), a nom 1/4 in. (6 mm) diam continuous bead of caulk or sealant (Item 5) shall be applied as gasket over the steel support channel.

*Bearing the UL Classification Mark

System No.W-J-1010

1. Wall Assembly - Min 6 in. (152 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 12 in. (305 mm).

See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Steel Pipe or Conduit – Nom 3 in. (76 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe, steel conduit or steel electrical metallic tubing. Multiple pipes and/or conduit permitted in opening provided a min separation of 1/4 in. (6 mm) is maintained between pipes or conduits. Pipes and/or conduits to be rigidly supported on both sides of the wall assembly.

The T Rating of the firestop system is dependent upon the max diam of the pipes or conduits, as tabulated below:

3. Packing Material - Min 1 in. (25 mm) thick rigid glass fiber insulation or mineral wool batt insulation firmly packed into opening on both sides of wall assembly as a permanent form. Packing material to be recessed min 1 in. (25 mm) from surface of wall on both sides of wall assembly.

4. Fill, Void or Cavity Materials* - Caulk or Sealant – Applied to fill the through opening to a min depth of 1 in. (25 mm) on both sides of wall assembly. 3M COMPANY - CP 25WB+ caulk or FB-3000 WT sealant.

*Bearing the UL Classification Marking

SITE PLAN - ELECTRICAL

MT'D TRANSFORMER -

1 1/2" RIGID CONDUIT BY ELEC. CONTRACTOR -----

GROUNDING ELECTRODE CONDUCTOR EXOTHERMICALLY WELDED TO BOTH GROUND RODS

GENERATOR PAD GROUNDING PLAN

1) ALL CORNER GROUND RODS (EXCEPT FOR GROUND ROD WITHIN PAD OPENING) & GROUNDING ELECTRODE CONDUCTORS SHALL BE BURIED 24" BELOW FINISHED GRADE (TYP., UON),

3) GROUND RODS MAY BE INSTALLED WITH A MAX. OF 45" TO VERTICAL IF ROCK OR OTHER OBSTRUCTION PREVENTS O" TO VERTICAL EMBEDMENT INTO EARTH. CONTRACTOR SHALL BE

GENERATOR PAD GROUNDING DETAIL

GENERAL ELECTRICAL NOTES

A. MECHANICAL EQUIPMENT LOCATIONS SHOWN ON ELECTRICAL DRAWINGS ARE APPROXIMATE, REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF EACH UNIT.

B. CONTRACTOR PROPOSING TO UNDERTAKE WORK UNDER THIS DIVISION SHALL VISIT THE SITE OF THE WORK AND FULLY INFORM THEMSELVES OF ALL CONDITIONS THAT EFFECT THE WORK OR COST THEREOF, AND EXAMINE THE DRAWINGS AS RELATED TO THE SITE CONDITIONS, PRIOR TO SUBMITTING HIS PROPOSAL FOR WORK.

C. CONSIDERATION WILL NOT BE GRANTED FOR ANY ALLEGED MISUNDERSTANDING OF THE AMOUNT OF WORK TO BE PERFORMED. TENDER OF PROPOSAL SHALL CONVEY FULL AGREEMENT TO THE ITEMS AND CONDITIONS INDICATED ON THE DRAWINGS, SHOULD THE CONTRACTOR FIND DISCREPANCIES OR OMISSIONS IN THE CONTRACT DOCUMENTS OR BE IN DOUBT AS TO THE INTENT THEREOF, HE SHALL IMMEDIATELY OBTAIN CLARIFICATION FROM THE ENGINEER AND/OR OWNER'S REPRESENTATIVE PRIOR TO SUBMITTING HIS

D. THIS CONTRACTOR SHALL VERIFY EXACT NAMEPLATE DATA ON ALL EQUIPMENT FURNISHED UNDER OTHER DIVISIONS AND/OR BY THE OWNER (I.E., HVAC EQUIPMENT, KITCHEN EQUIPMENT, ETC.) PRIOR TO THE INSTALLATION OF ELECTRICAL WORK AND MAKE ANY ADJUSTMENTS TO OUTLETS, CONDUIT, WIRE, AND/OR CIRCUIT BREAKER AS REQUIRED TO MATCH EQUIPMENT ACTUALLY FURNISHED.

E. ALL WALL MOUNTED DEVICES SHALL BE FLUSH MOUNTED.

G. ALL FEEDERS SHALL BE PROPERLY TORQUED. CONTRACTOR SHALL PROVIDE SIGNED AFFIDAVIT

VERIFYING COMPLETION OF THIS PROCESS.

H. DUCT MOUNTED SMOKE DETECTORS SHALL BE FURNISHED BY DIVISION 26, INSTALLED BY DIVISION 23, AND WIRED BY DIVISION 26. PROPER MECHANICAL UNIT SHUT DOWN SHALL BE TESTED WITH BOTH DIVISIONS PRESENT AND RESULTS PROVIDED TO OWNER.

J. THE OPERABLE PART OF EACH MANUAL PULL STATION SHALL NOT BE LESS THAN 42" AND NO MORE THAN 48" ABOVE FLOOR LEVEL PER NFPA 12.

K. WALL MOUNTED SPEAKER/STROBES, AND STROBES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS ARE NOT LESS THAN 80" A.F.F. AND NOT GREATER THAN 96" A.F.F. PER NFPA 12.

L. CONTRACTOR SHALL INSTALL A 1" CONDUIT WITH PULL STRING FROM EACH P.I.V. VAULT TO ACCESSIBLE PLENUM INSIDE BUILDING. IDENTIFY CONDUIT INSIDE BUILDING AS "P.I.V. VAULT".

M. MC CABLE IS ONLY ALLOWED TO MAKE SHORT CONNECTIONS TO LAY-IN LIGHTING FIXTURES. N, Ø-10 VOLT DIMMING CONDUCTORS ARE NOT SHOWN, BUT ARE ASSUMED, AND SHALL BE INSTALLED. O. USB DUPLEX OUTLETS SHALL BE COMMERCIAL GRADE WITH TWO (2) TYPE "A", HIGH POWER, 3.1 AMP, 5 VOLT OUTPUTS. OUTLETS SHALL BE TAMPER RESISTANT.

Q. CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITIES OF ALL DUCT MOUNTED SMOKE DETECTORS. DUCT MOUNTED SMOKE DETECTORS SHALL BE FURNISHED BY

ELECTRICAL NOTES

PROPOSED LOCATION FOR UTILITY COMPANY PAD MOUNTED TRANSFORMER. REFER TO 2/EØ.1 FOR ADDITIONAL INFORMATION.

2. PROPOSED LOCATION FOR EMERGENCY GENERATOR.

3. PROPOSED ROUTING AND TERMINATION LOCATION FOR COMMUNICATIONS SERVICE CONDUITS. COORDINATE EXACT ROUTING AND TERMINATION LOCATION AT PROPERTY LINE WITH LOCAL

4. REFER TO 1/E1.1 FOR LOCATION OF CONDUIT TERMINATIONS WITHIN BUILDING.

DETAIL - PAD MOUNTED TRANSFORMER NOT TO SCALE

	SYMBOL LEGEND	
	MOUNTING HEIGHT IS FROM FINISHED FLOOR TO CENTERLINE OF DEVICE OR OUTLET. HEIGHT MAY VARY TO COINCIDE WITH BUILDING CONSTRUCTION.	
SYMBOL	DESCRIPTION	MOUNTING HEIGHT
0		AS
	2' X 4' LIGUT EIXTURE	NOTED
	2 X 4 LIGHT FIXTURE	
	1' × 4' LIGHT FIXTURE	
	1' × 4' LIGHT FIXTURE ON EMERGENCY CIRCUIT	
<u> </u>	EXIT SIGN - CEILING MOUNTED DARKENED SECTION(S) OF SYMBOLS	
HS	EXIT SIGN - WALL MOUNTED DARKENED SECTION(S) OF SYMBOLS	
•	EXIT SIGN - CEILING MOUNTED DARKENED SECTION(S) OF SYMBOLS INDICATE FACES OF FIXTURE	
۲	EXIT SIGN - WALL MOUNTED DARKENED SECTION(S) OF SYMBOLS INDICATE FACES OF FIXTURE	
S _{K3}	KEY OPERATED THREE-WAY SWITCH	48"
S	S.P.S.T. LIGHT SWITCH	48"
M	LOW VOLTAGE DUAL TECHNOLOGY 360 DEGREE CEILING MOUNTED OCCUPANCY SENSOR (HUBBELL * OMNI-DT-2000, BASIS OF DESIGN)	
нM	WALL MOUNTED SENSOR SWITCH, DUAL TECHNOLOGY (HUBBELL * LHMTS-1, BASIS OF DESIGN) (SET TO MANUAL "ON", AUTO "OFF", 5 MIN. DELAY)	48"
	LOW VOLTAGE DUAL TECHNOLOGY 360 DEGREE SURFACE MOUNTED, INDOOR, OCCUPANCY SENSOR FOR AREAS WHERE MOUNTING HEIGHT 15 12'-0"AFF OR HIGHER (HUBBELL # WSP-5M-24Y SENSOR, WSP-L360-WH LENS	48"
	BASIS OF DESIGN) LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH	401
	0-10 VOLT SLIDE DIMMER (SET TO MANUAL "ON", AUTO "OFF", 5 MIN. DELAY) POWER PACK INSTALLED ABOVE CEILING	48"
	(HUBBELL * UVPP, BASIS OF DESIGN) Ø-10 VOLT SLIDE DIMMER (INCLUDE POWER PACK IF LOAD EXCEEDS	48"
	RATING OF DIMMER) (HUBBELL * DVSTV SERIES, BASIS OF DESIGN)	48"
	FOUR-WAY LIGHT SWITCH	48"
Sr Sr	KEY OPERATED LIGHT SWITCH	48"
$-\varphi$	SINGLE RECEPTACLE OUTLET (TAMPER PROOF)	18"
Ð	DUPLEX RECEPTACLE OUTLET (TAMPER PROOF)	18"
÷υ	DUPLEX RECEPTACLE OUTLET WITH TWO (2) USB PORTS (GENERAL NOTE "O")	18"
÷	QUAD RECEPTACLE OUTLET (TAMPER PROOF)	18"
.	QUAD RECEPTACLE OUTLET. ONE NORMAL TAMPER PROOF OUTLET AND ONE TAMPER PROOF OUTLET WITH 2 USB PORTS. (GENERAL NOTE "O")	18" U.N.O.
	DUPLEX RECEPTACLE MOUNTED 6" ABOVE BACKSPLASH (TAMPER PROOF)	
⊐⊕ ∪	DUPLEX RECEPTACLE MOUNTED 6" ABOVE BACKSPLASH WITH TWO (2) USB PORTS. (GENERAL NOTE "O")	
-	QUAD RECEPTACLE OUTLET. ONE NORMAL TAMPER PROOF OUTLET AND ONE TAMPER PROOF OUTLET WITH 2 USB PORTS. INSTALL 6" ABOVE	
•	FLUSH FLOOR DUPLEX OUTLET	
J	JUNCTION BOX W/COVERPLATE - ABOVE CEILING	
нØ	JUNCTION BOX W/COVERPLATE - WALL MOUNTED	
D ~	I"C. BELOW SLAB TO ACCOMMODATE DATA CABLES	
	PANELBOARD 480V	
	PANELBOARD 480V PANELBOARD 240V	
	PANELBOARD 480V PANELBOARD 240V DISCONNECT SWITCH - HORSEPOWER RATED	
	PANELBOARD 480V PANELBOARD 240V DISCONNECT SWITCH - HORSEPOWER RATED MOTOR - FRACTIONAL HORSEPOWER	
	PANELBOARD 480V PANELBOARD 240V DISCONNECT SWITCH - HORSEPOWER RATED MOTOR - FRACTIONAL HORSEPOWER MOTOR - NUMERAL INDICATES HORSEPOWER	
	PANELBOARD 480V PANELBOARD 240V DISCONNECT SWITCH - HORSEPOWER RATED MOTOR - FRACTIONAL HORSEPOWER MOTOR - NUMERAL INDICATES HORSEPOWER TELEPHONE OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM	 18"
	PANELBOARD 480V PANELBOARD 240V DISCONNECT SWITCH - HORSEPOWER RATED MOTOR - FRACTIONAL HORSEPOWER MOTOR - NUMERAL INDICATES HORSEPOWER TELEPHONE OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM	 8" 8"
	PANELBOARD 480V PANELBOARD 240V DISCONNECT SWITCH - HORSEPOWER RATED MOTOR - FRACTIONAL HORSEPOWER MOTOR - NUMERAL INDICATES HORSEPOWER TELEPHONE OUTLET WITH 1"C. STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH 1"C. STUBBED INTO ACCESSIBLE PLENUM JUNCTION BOX TO ACCOMMODATE MIC. STUB 1"C. INTO ACCESSIBLE PLENUM CELLING MOUNTED WIRELESS ACCESS POINT	 18" 18" 18"
	PANELBOARD 480V PANELBOARD 240V DISCONNECT SWITCH - HORSEPOWER RATED MOTOR - FRACTIONAL HORSEPOWER MOTOR - NUMERAL INDICATES HORSEPOWER TELEPHONE OUTLET WITH 1"C. STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH 1"C. STUBBED INTO ACCESSIBLE PLENUM JUNCTION BOX TO ACCOMMODATE MIC. STUB I"C. INTO ACCESSIBLE PLENUM CEILING MOUNTED WIRELESS ACCESS POINT 4x4 JUNCTION BOX WITH SINGLE GANG RING AND 1 1/2"C. STUBBED	 8" 8" 8"
	PANELBOARD 480V PANELBOARD 240V DISCONNECT SWITCH - HORSEPOWER RATED MOTOR - FRACTIONAL HORSEPOWER MOTOR - NUMERAL INDICATES HORSEPOWER TELEPHONE OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM JUNCTION BOX TO ACCOMMODATE MIC. STUB I"C. INTO ACCESSIBLE PLENUM CEILING MOUNTED WIRELESS ACCESS POINT 4x4 JUNCTION BOX WITH SINGLE GANG RING AND 1 1/2"C. STUBBED INTO ACCESSIBLE PLENUM FIRE ALARM PULL STATION (GENERAL NOTE "J")	 18" 18" 18"
	PANELBOARD 480V PANELBOARD 240V DISCONNECT SWITCH - HORSEPOWER RATED MOTOR - FRACTIONAL HORSEPOWER MOTOR - NUMERAL INDICATES HORSEPOWER TELEPHONE OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM JUNCTION BOX TO ACCOMMODATE MIC. STUB I"C. INTO ACCESSIBLE PLENUM CEILING MOUNTED WIRELESS ACCESS POINT 4x4 JUNCTION BOX WITH SINGLE GANG RING AND 1 1/2"C. STUBBED INTO ACCESSIBLE PLENUM FIRE ALARM PULL STATION (GENERAL NOTE "J") FIRE ALARM SPEAKER / STROBE (WALL MOUNTED) (GENERAL NOTE "K")	 8" 8" 8"
	PANELBOARD 480V PANELBOARD 240V DISCONNECT SWITCH - HORSEPOWER RATED MOTOR - FRACTIONAL HORSEPOWER MOTOR - NUMERAL INDICATES HORSEPOWER TELEPHONE OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM JUNCTION BOX TO ACCOMMODATE MIC. STUB I"C. INTO ACCESSIBLE PLENUM CEILING MOUNTED WIRELESS ACCESS POINT 4×4 JUNCTION BOX WITH SINGLE GANG RING AND 1 1/2"C. STUBBED INTO ACCESSIBLE PLENUM FIRE ALARM PULL STATION (GENERAL NOTE "J") FIRE ALARM SPEAKER / STROBE (WALL MOUNTED) (GENERAL NOTE "K") FIRE ALARM SPEAKER (WALL MOUNTED)	 18" 18" 18"
	PANELBOARD 480V PANELBOARD 240V DISCONNECT SWITCH - HORSEPOWER RATED MOTOR - FRACTIONAL HORSEPOWER MOTOR - NUMERAL INDICATES HORSEPOWER TELEPHONE OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM JUNCTION BOX TO ACCOMMODATE MIC. STUB I"C. INTO ACCESSIBLE PLENUM CEILING MOUNTED WIRELESS ACCESS POINT 4x4 JUNCTION BOX WITH SINGLE GANG RING AND 1 1/2"C. STUBBED INTO ACCESSIBLE PLENUM FIRE ALARM PULL STATION (GENERAL NOTE "J") FIRE ALARM SPEAKER / STROBE (WALL MOUNTED) (GENERAL NOTE "K") FIRE ALARM STROBE (CEILING MOUNTED)	 8" 8" 8"
	PANELBOARD 480V PANELBOARD 480V PANELBOARD 240V DISCONNECT SWITCH - HORSEPOWER RATED MOTOR - FRACTIONAL HORSEPOWER MOTOR - NUMERAL INDICATES HORSEPOWER TELEPHONE OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM JUNCTION BOX TO ACCOMMODATE MIC. STUB I"C. INTO ACCESSIBLE PLENUM CEILING MOUNTED WIRELESS ACCESS POINT 4x4 JUNCTION BOX WITH SINGLE GANG RING AND I 1/2"C. STUBBED INTO ACCESSIBLE PLENUM FIRE ALARM SPEAKER / STROBE (WALL MOUNTED) (GENERAL NOTE "K") FIRE ALARM SPEAKER (WALL MOUNTED) FIRE ALARM STROBE (CEILING MOUNTED) CEILING MOUNTED FIRE ALARM SPEAKER / STROBE	
	PANELBOARD 480V PANELBOARD 480V PANELBOARD 240V DISCONNECT SWITCH - HORSEPOWER RATED MOTOR - FRACTIONAL HORSEPOWER MOTOR - NUMERAL INDICATES HORSEPOWER TELEPHONE OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM JUNCTION BOX TO ACCOMMODATE MIC. STUB I"C. INTO ACCESSIBLE PLENUM CEILING MOUNTED WIRELESS ACCESS POINT 4x4 JUNCTION BOX WITH SINGLE GANG RING AND 1 1/2"C. STUBBED INTO ACCESSIBLE PLENUM FIRE ALARM PULL STATION (GENERAL NOTE "J") FIRE ALARM SPEAKER / STROBE (WALL MOUNTED) (GENERAL NOTE "K") FIRE ALARM STROBE (CEILING MOUNTED) CEILING MOUNTED FIRE ALARM SPEAKER / STROBE SMOKE DETECTOR - CEILING MOUNTED OR SURFACE MOUNTED	 18" 18" 18"
	PANELBOARD 480V PANELBOARD 240V DISCONNECT SWITCH - HORSEPOWER RATED MOTOR - FRACTIONAL HORSEPOWER RATED MOTOR - NUMERAL INDICATES HORSEPOWER TELEPHONE OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM JUNCTION BOX TO ACCOMMODATE MIC. STUB I"C. INTO ACCESSIBLE PLENUM CEILING MOUNTED WIRELESS ACCESS POINT 4x4 JUNCTION BOX WITH SINGLE GANG RING AND 1 1/2"C. STUBBED INTO ACCESSIBLE PLENUM FIRE ALARM SPEAKER / STROBE (WALL MOUNTED) (GENERAL NOTE "K") FIRE ALARM SPEAKER (WALL MOUNTED) FIRE ALARM STROBE (CEILING MOUNTED) CEILING MOUNTED FIRE ALARM SPEAKER / STROBE SMOKE DETECTOR - CEILING MOUNTED CARBON MONOXIDE DETECTOR - CEILING MOUNTED	
	PANELBOARD 480V PANELBOARD 240V PANELBOARD 240V DISCONNECT SWITCH - HORSEPOWER RATED MOTOR - FRACTIONAL HORSEPOWER MOTOR - NUMERAL INDICATES HORSEPOWER TELEPHONE OUTLET WITH 1°C. STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH 1°C. STUBBED INTO ACCESSIBLE PLENUM JUNCTION BOX TO ACCOMMODATE MIC. STUB 1°C. INTO ACCESSIBLE PLENUM CEILING MOUNTED WIRELESS ACCESS POINT 4x4 JUNCTION BOX WITH SINGLE GANG RING AND 1 1/2°C. STUBBED NTO ACCESSIBLE PLENUM FIRE ALARM SPEAKER / STROBE (WALL MOUNTED) (GENERAL NOTE "K") FIRE ALARM SPEAKER (WALL MOUNTED) FIRE ALARM STROBE (CEILING MOUNTED) CEILING MOUNTED FIRE ALARM SPEAKER / STROBE SMOKE DETECTOR - CEILING MOUNTED SMOKE DETECTOR - CEILING MOUNTED	 8" 8" 8"
	PANELBOARD 480V PANELBOARD 480V PANELBOARD 240V DISCONNECT SWITCH - HORSEPOWER RATED MOTOR - FRACTIONAL HORSEPOWER RATED MOTOR - NUMERAL INDICATES HORSEPOWER TELEPHONE OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM JUNCTION BOX TO ACCOMMODATE MIC. STUB I"C. INTO ACCESSIBLE PLENUM CEILING MOUNTED WIRELESS ACCESS POINT 4x4 JUNCTION BOX WITH SINGLE GANG RING AND 1 1/2"C. STUBBED INTO ACCESSIBLE PLENUM FIRE ALARM SPEAKER / STROBE (WALL MOUNTED) (GENERAL NOTE "K") FIRE ALARM SPEAKER (WALL MOUNTED) FIRE ALARM SPEAKER (WALL MOUNTED) CEILING MOUNTED FIRE ALARM SPEAKER / STROBE SMOKE DETECTOR - CEILING MOUNTED HEAT DETECTOR	
	PANELBOARD 480V PANELBOARD 240V DISCONNECT SWITCH - HORSEPOWER RATED MOTOR - FRACTIONAL HORSEPOWER MOTOR - NUMERAL INDICATES HORSEPOWER TELEPHONE OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM JUNCTION BOX TO ACCOMMODATE MIC. STUB I"C. INTO ACCESSIBLE PLENUM CEILING MOUNTED WIRELESS ACCESS POINT 4x4 JUNCTION BOX WITH SINGLE GANG RING AND 11/2"C. STUBBED INTO ACCESSIBLE PLENUM FIRE ALARM PULL STATION (GENERAL NOTE "J") FIRE ALARM SPEAKER / STROBE (WALL MOUNTED) (GENERAL NOTE "K") FIRE ALARM SPEAKER (WALL MOUNTED) CEILING MOUNTED FIRE ALARM SPEAKER / STROBE SMOKE DETECTOR - CEILING MOUNTED OR SURFACE MOUNTED CARBON MONOXIDE DETECTOR - CEILING MOUNTED SMOKE DETECTOR - DUCT MOUNTED HEAT DETECTOR SPRINKLER FLOW SWITCH	
	PANELBOARD 480V PANELBOARD 480V PANELBOARD 240V DISCONNECT SWITCH - HORSEPOWER RATED MOTOR - FRACTIONAL HORSEPOWER RATED MOTOR - NUMERAL INDICATES HORSEPOWER TELEPHONE OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM JUNCTION BOX TO ACCOMMODATE MIC. STUB I"C. INTO ACCESSIBLE PLENUM CEILING MOUNTED WIRELESS ACCESS POINT 4x4 JUNCTION BOX WITH SINGLE GANG RING AND 1 1/2"C. STUBBED NTO ACCESSIBLE PLENUM FIRE ALARM SPEAKER / STROBE (WALL MOUNTED) (GENERAL NOTE "K") FIRE ALARM SPEAKER (WALL MOUNTED) FIRE ALARM SPEAKER (WALL MOUNTED) FIRE ALARM STROBE (CEILING MOUNTED) CEILING MOUNTED FIRE ALARM SPEAKER / STROBE SMOKE DETECTOR - CEILING MOUNTED GARBON MONOXIDE DETECTOR - CEILING MOUNTED HEAT DETECTOR SPRINKLER FLOW SWITCH SPRINKLER TAMPER SWITCH	
	PANELBOARD 480V PANELBOARD 480V PANELBOARD 240V DISCONNECT SWITCH - HORSEPOWER RATED MOTOR - FRACTIONAL HORSEPOWER RATED MOTOR - NUMERAL INDICATES HORSEPOWER TELEPHONE OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM JUNCTION BOX TO ACCOMMODATE MIC. STUB I"C. INTO ACCESSIBLE PLENUM CEILING MOUNTED WIRELESS ACCESS POINT 4x4 JUNCTION BOX WITH SINGLE GANG RING AND 11/2"C. STUBBED INTO ACCESSIBLE PLENUM FIRE ALARM PULL STATION (GENERAL NOTE "J") FIRE ALARM SPEAKER (WALL MOUNTED) FIRE ALARM SPEAKER (WALL MOUNTED) FIRE ALARM SPEAKER (WALL MOUNTED) GEILING MOUNTED FIRE ALARM SPEAKER / STROBE SMOKE DETECTOR - CEILING MOUNTED SMOKE DETECTOR - DUCT MOUNTED HEAT DETECTOR SPRINKLER FLOW SWITCH DOOR HOLD DEVICE (WALL MOUNTED)	 8" 8" 8"
	PANELBOARD 480V PANELBOARD 240V DISCONNECT SWITCH - HORSEPOUER RATED MOTOR - FRACTIONAL HORSEPOUER RATED MOTOR - NUMERAL INDICATES HORSEPOUER TELEPHONE OUTLET WITH I'C. STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH I'C. STUBBED INTO ACCESSIBLE PLENUM JUNCTION BOX TO ACCOMMODATE MIC. STUB I'C. INTO ACCESSIBLE PLENUM CEILING MOUNTED WIRELESS ACCESS POINT 4x4 JUNCTION BOX WITH SINGLE GANG RING AND I 1/2"C. STUBBED INTO ACCESSIBLE PLENUM FIRE ALARM PULL STATION (GENERAL NOTE "J") FIRE ALARM SPEAKER / STROBE (WALL MOUNTED) (GENERAL NOTE "K") FIRE ALARM SPEAKER (WALL MOUNTED) FIRE ALARM SPEAKER (WALL MOUNTED) CEILING MOUNTED FIRE ALARM SPEAKER / STROBE SMOKE DETECTOR - CEILING MOUNTED OR SURFACE MOUNTED CARBON MONOXIDE DETECTOR - CEILING MOUNTED MOKE DETECTOR - DUCT MOUNTED HEAT DETECTOR SPRINKLER FLOW SWITCH DOOR HOLD DEVICE (WALL MOUNTED) DOOR HOLD DEVICE (FLOOR MOUNTED)	
	PANELBOARD 480V PANELBOARD 480V PANELBOARD 240V DISCONNECT SWITCH - HORSEPOWER RATED MOTOR - FRACTIONAL HORSEPOWER RATED MOTOR - NUMERAL INDICATES HORSEPOWER TELEPHONE OUTLET WITH 1°C. STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH 1°C. STUBBED INTO ACCESSIBLE PLENUM JUNCTION BOX TO ACCOMMODATE MIC. STUB 1°C. INTO ACCESSIBLE PLENUM CELLING MOUNTED WIRELESS ACCESS POINT 4x4 JUNCTION BOX WITH SINGLE GANG RING AND 11/2°C. STUBBED INTO ACCESSIBLE PLENUM FIRE ALARM PULL STATION (GENERAL NOTE "J") FIRE ALARM SPEAKER / STROBE (WALL MOUNTED) (GENERAL NOTE "K") FIRE ALARM SPEAKER (WALL MOUNTED) FIRE ALARM STROBE (CEILING MOUNTED) CEILING MOUNTED FIRE ALARM SPEAKER / STROBE SMOKE DETECTOR - CEILING MOUNTED GARBON MONOXIDE DETECTOR - CEILING MOUNTED GARBON MONOXIDE DETECTOR - CEILING MOUNTED HEAT DETECTOR SPRINKLER FLOW SWITCH DOOR HOLD DEVICE (WALL MOUNTED) PRESSURE SWITCH DOOR HOLD DEVICE (FLOOR MOUNTED) FIRESAURD AND ALTED FIRESAURD	
	PANELBOARD 480V PANELBOARD 480V PANELBOARD 240V PANELBOARD 240V DISCONNECT SWITCH - HORSEPOWER RATED MOTOR - FRACTIONAL HORSEPOWER MOTOR - NUMERAL INDICATES HORSEPOWER TELEPHONE OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM JUNCTION BOX TO ACCOMMODATE MIC. STUB I"C. INTO ACCESSIBLE PLENUM CEILING MOUNTED WIRELESS ACCESS POINT 4x4 JUNCTION BOX WITH SINGLE GANG RING AND 1 1/2"C. STUBBED INTO ACCESSIBLE PLENUM FIRE ALARM SPEAKER / STROBE (WALL MOUNTED) (GENERAL NOTE "K") FIRE ALARM SPEAKER / STROBE (WALL MOUNTED) (GENERAL NOTE "K") FIRE ALARM SPEAKER / STROBE (WALL MOUNTED) CEILING MOUNTED FIRE ALARM SPEAKER / STROBE SMOKE DETECTOR - CEILING MOUNTED OR SURFACE MOUNTED GARBON MONOXIDE DETECTOR - CEILING MOUNTED MOKE DETECTOR - DUCT MOUNTED HEAT DETECTOR SPRINKLER FLOW SWITCH DOOR HOLD DEVICE (FLOOR MOUNTED) FRESSURE SWITCH INTERCAME SWITCH INTERCAMER	
	PANELBOARD 480V PANELBOARD 480V PANELBOARD 240V PANELBOARD 240V DISCONNECT SWITCH - HORSEPOWER RATED MOTOR - FRACTIONAL HORSEPOWER MOTOR - NUMERAL INDICATES HORSEPOWER TELEPHONE OUTLET WITH 1°C. STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH 1°C. STUBBED INTO ACCESSIBLE PLENUM UNICTION BOX TO ACCOMMODATE MIC. STUB 1°C. INTO ACCESSIBLE PLENUM CEILING MOUNTED WIRELESS ACCESS POINT 4x4 JUNCTION BOX WITH SINGLE GANG RING AND 1 1/2°C. STUBBED INTO ACCESSIBLE PLENUM FIRE ALARM PULL STATION (GENERAL NOTE "J") FIRE ALARM SPEAKER / STROBE (WALL MOUNTED) FIRE ALARM STROBE (CEILING MOUNTED) FIRE ALARM STROBE (CEILING MOUNTED) CEILING MOUNTED FIRE ALARM SPEAKER / STROBE SMOKE DETECTOR - CEILING MOUNTED OR SURFACE MOUNTED CARBON MONOXIDE DETECTOR - CEILING MOUNTED HEAT DETECTOR SPRINKLER TAMPER SWITCH DOOR HOLD DEVICE (WALL MOUNTED) PRESSURE SWITCH INTERCOM CALL BUTTON (JUNCTION BOX WITH 3/4°C. STUB UP) INTERCOM ADMINISTED ATION (JUNCTION BOX WITH 3/4°C. STUB UP) INTERCOM ADMINISTED ATION (JUNCTION BOX WITH 3/4°C. STUB UP) INTERCOM ADMINISTED ATION (JUNCTION BOX WITH 3/4°C. STUB UP) INTERCOM ADMINISTED ATION PARENT	
	PANELBOARD 480V PANELBOARD 240V DISCONNECT SWITCH - HORSEPOWER RATED MOTOR - FRACTIONAL HORSEPOWER MOTOR - NUMERAL INDICATES HORSEPOWER TELEPHONE OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH I"C. STUBBED INTO ACCESSIBLE PLENUM JUNCTION BOX TO ACCOMMODATE MIC. STUB I"C. INTO ACCESSIBLE PLENUM CEILING MOUNTED WIRELESS ACCESS POINT 4x4 JUNCTION BOX WITH SINGLE GANG RING AND 11/2"C. STUBBED INTO ACCESSIBLE PLENUM FIRE ALARM PULL STATION (GENERAL NOTE "J") FIRE ALARM SPEAKER / STROBE (WALL MOUNTED) (GENERAL NOTE "K") FIRE ALARM SPEAKER / STROBE (WALL MOUNTED) GEILING MOUNTED FIRE ALARM SPEAKER / STROBE SMOKE DETECTOR - CEILING MOUNTED CARBON MONOXIDE DETECTOR - CEILING MOUNTED GMOKE DETECTOR - DUCT MOUNTED MORE DETECTOR - DUCT MOUNTED SPRINKLER FLOW SWITCH SPRINKLER TAMPER SWITCH DOOR HOLD DEVICE (FLOOR MOUNTED) PRESSURE SWITCH INTERCOM SPEAKER INTERCOM ADMINISTRATION PHONE SET ACM RATED WALL ADE AVER	 8" 8" 8" 8"
	PANELBOARD 480V PANELBOARD 480V PANELBOARD 240V PANELBOARD 240V PANELBOARD 240V DISCONNECT SUITCH - HORSEPOWER RATED MOTOR - FRACTIONAL HORSEPOWER TELEPHONE OUTLET WITH I'C. STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH I'C. STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH I'C. STUBBED INTO ACCESSIBLE PLENUM CEILING MOUNTED WIRELESS ACCESS POINT 4x4 JUNCTION BOX TO ACCOMMODATE MIC. STUB I'C. INTO ACCESSIBLE PLENUM CEILING MOUNTED WIRELESS ACCESS POINT 4x4 JUNCTION BOX TO ACCOMMODATE MIC. STUB I'C. INTO ACCESSIBLE PLENUM FIRE ALARM PURELESS ACCESS POINT FIRE ALARM PURELESS ACCESS POINT FIRE ALARM PURELESS ACCESS POINT FIRE ALARM SPEAKER / STROBE (WALL MOUNTED) (GENERAL NOTE 'K'') FIRE ALARM SPEAKER (WALL MOUNTED) FIRE ALARM SPEAKER (WALL MOUNTED) CEILING MOUNTED FIRE ALARM SPEAKER / STROBE SMOKE DETECTOR - CEILING MOUNTED AMONOXIDE DETECTOR - CEILING MOUNTED CARBON MONOXIDE DETECTOR - CEILING MOUNTED SMOKE DETECTOR - DUCT MOUNTED HEAT DETECTOR SPRINKLER FLOW SUITCH SPRINKLER TAMPER SWITCH DOOR HOLD DEVICE (WALL MOUNTED) PRESSURE SWITCH INTERCOM SPEAKER INTERCOM CALL BUTTON (JUNCTION BOX WITH 3/4''C. STUB UP) INTERCOM ADMINISTRATION PHONE SET GYM RATED WALL SPEAKER	
	PANELBOARD 486/V PANELBOARD 246/V PANELBOARD 246/V PANELBOARD 246/V PISCONNECT SUITCH - HORSEPOWER RATED MOTOR - FRACTIONAL HORSEPOWER MOTOR - NUMERAL INDICATES HORSEPOWER TELEPHONE OUTLET WITH I'C. STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH I'C. STUBBED INTO ACCESSIBLE PLENUM JUNCTION BOX TO ACCOMMODATE MIC. STUB I'C. INTO ACCESSIBLE PLENUM JUNCTION BOX TO ACCOMMODATE MIC. STUB I'C. INTO ACCESSIBLE PLENUM JUNCTION BOX TO ACCOMMODATE MIC. STUB I'C. INTO ACCESSIBLE PLENUM JUNCTION BOX TO ACCOMMODATE MIC. STUB I'C. INTO ACCESSIBLE PLENUM JUNCTION BOX TO ACCOMMODATE MIC. STUB I'C. INTO ACCESSIBLE PLENUM JUNCTION BOX TO ACCOMMODATE MIC. STUB I'C. INTO ACCESSIBLE PLENUM JUNCTION BOX TO ACCOMMODATE MIC. STUB I'C. STUBBED NTO ACCESSIBLE PLENUM FIRE ALARM POLACER (WALL MOUNTED) (GENERAL NOTE 'K') FIRE ALARM SPEAKER (STROBE (WALL MOUNTED) FIRE ALARM STROBE (CELLING MOUNTED) FIRE ALARM STROBE (CELLING MOUNTED) CELLING MOUNTED FIRE ALARM SPEAKER / STROBE SMOKE DETECTOR - CELLING MOUNTED CARBON MONOXIDE DETECTOR - CELLING MOUNTED SMOKE DETECTOR - DUCT MOUNTED) PRESSURE RUTCH DOOR HOLD DEVICE (FLOOR MOUNTED) <td> &" &" &" &" &" &" &" &" &" </td>	 &" &" &" &" &" &" &" &" &"
	PANEL BOARD 480V PANEL BOARD 480V PANEL BOARD 240V PANEL STUDY PANEL STUDY <t< td=""><td> </td></t<>	
	PANEL BOARD 480V PANEL BOARD 480V PANEL BOARD 240V DISCONNECT SWITCH - HORSEPOWER RATED MOTOR - REACTIONAL HORSEPOWER TELEPHONE OUTLET WITH I'C. STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH I'C. STUBBED INTO ACCESSIBLE PLENUM UNCTION BOX TO ACCOMMODATE MIC. STUB I'C. INTO ACCESSIBLE PLENUM CELLING MOUNTED WIRELESS ACCESS POINT 4x4 JUNCTION BOX WITH GINGLE GANG RING AND I 1/2°C. STUBBED NTO ACCESSIBLE PLENUM CELLING MOUNTED WIRELESS ACCESS POINT 4x4 JUNCTION BOX WITH GINGLE GANG RING AND I 1/2°C. STUBBED NTO ACCESSIBLE PLENUM FIRE ALARM SPEAKER / STROBE (WALL MOUNTED) (GENERAL NOTE "K') FIRE ALARM SPEAKER / STROBE (WALL MOUNTED) GEILING MOUNTED FIRE ALARM SPEAKER / STROBE 9MOKE DETECTOR - CEILING MOUNTED CERLOR - DUCT MOUNTED CARBON MONOXIDE DETECTOR - CEILING MOUNTED SMOKE DETECTOR - DUCT MOUNTED 9PRINKLER TAMPER SWITCH SPRINKLER TAMPER SWITCH SPRINKLER TAMPER SWITCH SPRINKLER TAMPER SWITCH DOOR HOLD DEVICE (WALL MOUNTED) PRESSURE SWITCH INTERCOM SPEAKER NITERCOM SPEAKER MITTERCOM SPEAKER <tr< td=""><td> </td></tr<>	
	PARELEDARD 480V PARELEDARD 480V PARELEDARD 240V DISCONNECT SWITCH - HORSEPOWER RATED MOTOR - FRACTIONAL HORSEPOWER MOTOR - NUMERAL INDICATES HORSEPOWER TELEPHONE OUTLET WITH I'C. STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH I'C. STUBBED INTO ACCESSIBLE PLENUM JUNCTION BOX TO ACCOMMODATE MIC. STUB I'C. INTO ACCESSIBLE PLENUM CELLING MOUNTED WIRELESS ACCESS POINT 4x4 JUNCTION BOX WITH GINGLE GANG RING AND I 1/2°C. STUBBED FIRE ALARM PULL STATION (GENERAL NOTE "J") FIRE ALARM SPEAKER / STROBE (WALL MOUNTED) (GENERAL NOTE "K") FIRE ALARM SPEAKER (JELING MOUNTED) GELING MOUNTED FIRE ALARM SPEAKER / STROBE SMOKE DETECTOR - CEILING MOUNTED CARBON MONOXIDE DETECTOR - CEILING MOUNTED CARBON MONOXIDE DETECTOR - CEILING MOUNTED GARGON HONOXIDE DETECTOR - CEILING MOUNTED SMOKE DETECTOR - DUCT MOUNTED HEAT DETECTOR SPRINKLER TAMPER SWITCH DOOR HOLD DEVICE (FLOOR MOUNTED) PRESSURE SWITCH INTERCOM ADL DEVICE (FLOOR MOUNTED) PRESSURE SWITCH INTERCOM ADL DEVICE (FLOOR MOUNTED) PRESSURE SWITCH INTERCOM ADL DEVICE (FLOOR MOUNTED) <td< td=""><td> 8" 8" 8" 8" 8" </td></td<>	 8" 8" 8" 8" 8"
	BANELE ORED 1807 PANELEDOARD 1807 PANELEDOARD 2407 PANELEDOARD 2407 DISCONNECT SWITCH - HORSEPOLER RATED MOTOR - FRACTIONAL HORSEPOLER TELEPHONE OUTLET WITH I'C, STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH I'C, STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH I'C, STUBBED INTO ACCESSIBLE PLENUM DATA OUTLET WITH I'C, STUBBED INTO ACCESSIBLE PLENUM CEILING MOUNTED WIRELESS ACCESS POINT 444 JUNCTION BOX WITH SINGLE GANG RING AND I 1/2°C, STUBBED TO ACCESSIBLE PLENUM FIRE ALARM SPEAKER / STROBE (WALL MOUNTED) (GENERAL NOTE 'K'') FIRE ALARM SPEAKER / STROBE (WALL MOUNTED) FIRE ALARM SPEAKER (WALL MOUNTED) CEILING MOUNTED FIRE ALARM SPEAKER / STROBE SMOKE DETECTOR - CEILING MOUNTED GEILING MOUNTED RECTOR - CEILING MOUNTED GEILING MOUNTED OR SURFACE MOUNTED SMOKE DETECTOR - DUCT MOUNTED SMOKE DETECTOR - DUCT MOUNTED HEAT DETECTOR SPRINKLER FLOW SWITCH DOOR HOLD DEVICE (WALL MOUNTED) DERESURE SWITCH NTERCOM GALL BUTTON (JUNCTION BOX WITH 3/4°C, STUB UP) NTERCOM ALL BUTTON (JUNCTION BOX WITH 3/4°C, STUB UP) NTERCOM ALL BUTTON (JUNCTION BOX WITH 3/4°C, S	
	BALE BOARD 4880 PARELBOARD 2480 PARELBOARD 24800 PARELBOARD 24800 PARELBOARD 24800 PARELBOARD 24800 PARELBOARD 2400 PARELBOARD 2400 PARELBOARD 2400 PARELBOARD 2400 PARELBOARD 2400	
	GILLET AND LED YOURSET PANELBOARD 488/V PANELBOARD 248/V PANELBOARD 248/V PISCONNECT SWITCH - HORSEPOUER RATED MOTOR - FRACTIONAL HORSEPOUER TELEPHONE OUTLET WITH I'C. STUBBED INTO ACCESSIBLE PLENIM DATA OUTLET WITH I'C. STUBBED INTO ACCESSIBLE PLENIM DATA OUTLET WITH I'C. STUBBED INTO ACCESSIBLE PLENIM CELING MONTED WRELESS ACCESS POINT Aud JUNCTION BOX TO ACCESSIBLE GAINS RING AND 11/2'C. STUBBED INTO ACCESSIBLE FLENIM FIRE ALARM SPECKER / STROBE (WALL MOUNTED) (GENERAL NOTE 'K'') FIRE ALARM SPECKER / STROBE (WALL MOUNTED) FIRE ALARM SPECKER / STROBE (WALL MOUNTED) CELING MONTED FIRE ALARM SPEAKER / STROBE SMOKE DETECTOR - CELING MOUNTED FIRE ALARM STROBE (CELING MOUNTED) CARBON MONOXIDE DETECTOR - CELING MOUNTED SMOKE DETECTOR - DUCT MOUNTED SMOKE DETECTOR - DUCT MOUNTED SMOKE DETECTOR - DUCT MOUNTED PERINKLER TAMPER SWITCH DOOR HOLD DEVICE (WALL MOUNTED) DOOR HOLD DEVICE (WALL MOUNTED) PRESSURE SWITCH NITERCOM SPEAKER INTERCOM SPEAKER EMERGENCY CALL STATION WITH SPEAKER SECURITY CAMERA	
	GILLETAGE CONTECTION PARELBOARD 2480V	

-HOI

NOTE: GROUND CONDUCTOR IS NOT SHOWN, BUT IS ASSUMED, AND SHALL BE INSTALLED.

2023-073 JKM

		FOU				61100		
ITEM NO,	DESCRIPTION	VOLTS	PH			FLA	CIRCUIT	FEEDER
$\langle 1 \rangle$	FCU-1 (1 of 3)	2Ø8	1	٦.2		7.6	A-7,9 60A/2P	2#4 \$ #10 GROUND - 1"C.
$\langle 2 \rangle$	FCU-1 (2 of 3)	208	1	٦.2			A-11,13 45A/2P	2#6 \$ 1#10 GROUND - 3/4"
3	FCU-1 (3 of 3)	2Ø8	1	3.6			A-15,17 25A/2P	2#10 \$ 1#10 GROUND - 1/2"(
$\langle 4 \rangle$	HP-1	2Ø8	1			19.3	A-19,21 4ØA/2P	2#8 \$ 1#10 GROUND - 3/4"(
5	FCU-2	2Ø8	1	٦.2		2.8	A-23,25 5ØA/2P	2#6 \$ 1#10 GROUND - 3/4"
6	HP-2	2Ø8	1			12.3	A-27,29 25A/2P	2#10 \$ 1#10 GROUND - 1/2"(
T	FCU-3	2Ø8	1	٦.2		2.8	A-31,33 50A/2P	2#6 \$ 1#10 GROUND - 3/4"(
8	HP-3	2Ø8	1			12.3	A-35,37 25A/2P	2#10 \$ 1#10 GROUND - 1/2"(
P	OMITTED		-					
	F-TE-I	12Ø	1	Ø.Ø2			CONTROLLED BY LIGHT SWITCH	2#12 \$ 1#12 GROUND - 1/2"C
	F-EXH-1	12Ø	1		1/2		B-1 2ØA/IP	2#12 \$ 1#12 GROUND - 1/2"C
(12)	F-E×H-2	12Ø	1		1/2		B-3 204/IP	2#12 \$ 1#12 GROUND - 1/2"C
(13)	F-VENT-I	12Ø	1			Ø.32	B-5 154/IP	2#12 \$ 1#12 GROUND - 1/2"C
$\langle 14 \rangle$	DRYING CABINET	2Ø8	3	12.0			A-26,28,30 40A/3P	3#8 \$ 1#8 GROUND - 3/4"(
(15)	EXTRACTOR	12Ø	1	1.Ø			B-7 204/IP	2#12 \$ 1#12 GROUND - 1/2"C
	WATER HEATER	2Ø8	1	Ø.			A-39,41 4ØA/2P	2*8 \$ 1*10 GROUND - 3/4"(
	CIRC. PUMP	12Ø	1		1/12		B-9 154/1P	2#12 \$ 1#12 GROUND - 1/2"C
(18)	ELECTRIC HEATER	2Ø8	3	9,5			A-2,4,6 4ØA/3₽	3*8 \$ 1*10 GROUND - 3/4"(
$\langle e_l \rangle$	ELECTRIC HEATER	2Ø8	3	9.5			A-8,1Ø,12 4ØA/3₽	3#8 \$ 1#10 GROUND - 3/4"(
$\langle 2 \mathcal{O} \rangle$	ELECTRIC HEATER	2Ø8	3	9,5			A-14,16,18 40A/3P	3*8 \$ 1*10 GROUND - 3/4"(
$\langle 21 \rangle$	ELECTRIC HEATER	2Ø8	3	9,5			A-2Ø,22,24 4ØA/3P	3*8 \$ 1*10 GROUND - 3/4"(
22	MAF-1	12Ø	1		1/4		B-11 15A/IP	2#12 \$ 1#12 GROUND - 1/2"C
23	F-KHE-1	12Ø	1		1/4		B-15 154/1P	2#12 \$ 1#12 GROUND - 1/2"C
$\langle 24 \rangle$	EDH-1	2Ø8	3	11 <i>.</i> Ø			A-32,34,36 40A/3P	3#8 \$ 1#10 GROUND - 3/4"(
25	CU-1	2Ø8	1			9.0	B-17,19	2#12 \$ 1#12 GROUND - 1/2"C
26	AC-1	2Ø8	1			1.Ø	15A/2P	3#12 \$ 1#12 GROUND - 1/2"C
$\langle 27 \rangle$	DISPOSAL	12Ø	1		1/2		B-33 204/IP	2#12 \$ 1#12 GROUND - 1/2"C

	LIGHTIN	IG FIXT	URE	SCHED	ULE *
REFE AND/	R TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL OR DESCRIPTION IN THIS SCHEDULE.	REQUIREMENTS WHIC	H MAY NOT	NECESSARILY BE REFL	ECTED IN CATALOG NUMBER
MARK	DESCRIPTION	MOUNTING	VOLTS		REMARKS
Д	LITHONIA * STAKS-2×4-ALØ6-SWW7	RECESSED	12Ø	FURNIGHED WITH FIXTURE	SET LUMEN OUTPUT AT HIGHEST SETTING. (U.N.O.)
ΑE	LITHONIA * STAKS-2×4-AL06-SWW7-ILBCPI0A	RECESSED	12Ø	FURNIGHED WITH FIXTURE	SET LUMEN OUTPUT AT HIGHEST SETTING. (U.N.O.) BATTERY PACK
в	LITHONIA * STAKS-2×2-ALØ3-SWW7	RECESSED	12Ø	FURNIGHED WITH FIXTURE	SET LUMEN OUTPUT AT HIGHEST SETTING. (U.N.O.)
BE	LITHONIA * STAKS-2×2-ALØ3-SWW7-ILBCPIØA	RECESSED	12Ø	FURNIGHED WITH FIXTURE	SET LUMEN OUTPUT AT HIGHEST SETTING. (U.N.O.) BATTERY PACK
D	LITHONIA * LQC-I-R-ELN	CEILING/BACK	12Ø	FURNIGHED WITH FIXTURE	
E	LITHONIA * LQC-2-R-ELN	CEILING	12Ø	FURNIGHED WITH FIXTURE	
F	LITHONIA * CSS-L48-ALØ3-MVOLT-SWW3-80CRI	SURFACE/ WALL	12Ø	FURNIGHED WITH FIXTURE	
FE	LITHONIA * CSS-L48-ALØ3-MVOLT-SWW3-8ØCRI- LIØ-DC-CEC	SURFACE/ WALL	12Ø	FURNIGHED WITH FIXTURE	BATTERY PACK
G	LUMUX * WS500-25W-4000K-120-BRONZE	SURFACE	12Ø	FURNIGHED WITH FIXTURE	
GE	LUMUX * WS500-25W-BRONZE-4000K-120V- PHOTOCELL-BATTERY PACK	SURFACE	12Ø	FURNIGHED WITH FIXTURE	PHOTOCELL BUTTON, BATTERY PACK
н	LITHONIA * LDN6-ALØ2-SWWI-LØ6AR-LSS-MVOLT-UGZ	RECESSED	12Ø	FURNIGHED WITH FIXTURE	
J	LITHONIA # WDGE2LED-P3-4000K-70CRI-TM3- MVOLT-9RM	WALL	12Ø	FURNIGHED WITH FIXTURE	
JE	LITHONIA # WDGE2LED-P3-4000K-70CRI-TM3- MVOLT-9RM-PE-E20WC	WALL	12Ø	FURNIGHED WITH FIXTURE	PHOTOCELL BUTTON, BATTERY PACK
к	LITHONIA * JEBL-30L-40K-80CRI-WH- JEBLPCLR2M4-JCBL9C120	PENDANT	12Ø	FURNIGHED WITH FIXTURE	215,Ø WATTS
М	LITHONIA * ELM2-LED	WALL	12Ø	FURNIGHED WITH FIXTURE	
N	DUAL LITE * EVHC12-06L	WALL	12Ø	FURNIGHED WITH FIXTURE	
Ρ	HUBBELL * CCR	WALL	12Ø	FURNIGHED WITH FIXTURE	
Q	LITHONIA # EVO-35/14-6-DFR-MVOLT	RECESSED	12Ø	FURNIGHED WITH FIXTURE	
R	NEW STAR # MUS SERIES-HC-L1-3500-A-UN	UNDER CABINET	12Ø	FURNISHED WITH FIXTURE	INSTALL LENGTHS NEEDED TO BEST COVER AREAS SHOWN.
*	EQUALS BY LITHONIA, LIGHTOLIER, DAY-BRITE, WILLIAMS, ME	ETALUX, COLUMBIA, PR	ESCOLITE, DU	JAL-LITE, AND EMERGI-LI	TE WILL BE ACCEPTABLE.

<u>NOTE:</u> LED LIGHTING FIXTURES SHALL HAVE A MINIMUM WARRANTY OF 10 YEARS, PROVIDE A LETTER FROM EACH LIGHTING FIXTURE MANUFACTURER STATING A 10 YEAR WARRANTY IS INCLUDED.

1 FLOOR PLAN - LIGHTING BCALE: 1/4" = 1'-@"

GENERATOR NOTES EXTEND 2#12 & 1#12 GROUND - 1/2"C. TO CIRCUIT B-2 TO ACCOMMODATE BATTERY CHARGER.

- EXTEND 2#12 & 1#12 GROUND 1/2"C. TO CIRCUIT B-4 TO ACCOMMODATE BLOCK HEATER.
- EXTEND 1 1/2"C. TO ACCOMMODATE WIRING TO ATS.
- EXTEND I"C. TO ACCOMMODATE WIRING TO REMOTE ANNUNCIATOR.

WIRING GUTTERS ARE NOT ALLOWED.

LEGEND

- (1) 4 #300 MCM & 1 #4 GROUND 3"C.
- 2 4 POLE "EXTERIOR LIGHTING CONTACTOR" IN A NEMA I ENCLOSURE. CONTACTOR SHALL BE 30A RATED AND N/C. CONTACTOR SHALL HAVE HAND/OFF/AUTO SWITCH ON FRONT. CONTACTOR SHALL BE CONTROLLED BY PHOTOCELL.
- (3) 2 SETS OF 4 #300 MCM & I #I GROUND 3"C. EACH SET
- (4) 2 SETS OF 4 #300 MCM 3"C. EACH SET
- 5 CURRENT TECHNOLOGY * TG3-100-208-3Y-MN-T-MI LIGHTNING/SURGE PROTECTION (BASIS OF DESIGN)
- 6 1 *3/0 GROUND 1"C. TO GROUND RODS, BUILDING STEEL, COLD WATER PIPE, AND STRUCTURAL REBAR.

	PANELBOARD A SCHEDULE																						
VC	DLTAGE: 120/208V, 3 PH, 4 W	I	M,	4INS:	60	ØA I	M.L.O.				1	10U	NTIN	G: SURF	=40	CE			R	EMARKS:			
ви	S SIZE: 600A			107A 189.8	LL BØH	OAD KVA	D: (DIVERSIFIED LOAD					AUL	_1 D	UTY: 42	.,ØØ	00 AIC	;						
NO	SERVES	NOTE	LTG	L RCPT	.OAD MTR	(KVA A/C	U HTG M			2 P ,	PHASE A B C	B	RKR TRIF	MISC HTC	LC G	AD (KVA A/C MTR		LTG	NOTE	SERVES	NO		
1	LIGHTNING/SURGE							10	0	3 -	•++	3	40	9,5	5					ELECTRIC HEATER	2		
3	LIGHTNING/SURGE									7	┼┢┼				7					ELECTRIC HEATER	4		
5	LIGHTNING/SURGE								\overline{X}	7	┼┼┢		$\overline{\mathbb{V}}$		7					ELECTRIC HEATER	6		
٦	FCU-1 (1 of 3)				1.6		T.2	6	ø	2	↓ ↓↓	3	40	9.5	5					ELECTRIC HEATER	8		
9	FCU-1 (1 of 3)									7	┼╈┼				/					ELECTRIC HEATER	10		
11	FCU-1 (2 of 3)						7.2	4	15	2	┼┼╈	-77	\overline{V}		7					ELECTRIC HEATER	12		
13	FCU-1 (2 of 3)									7	↓ ↓↓	3	40	9.5	5					ELECTRIC HEATER	14		
15	FCU-1 (3 of 3)						3.6	2	5	2	┼┿┼				7					ELECTRIC HEATER	16		
ΓI	FCU-1 (3 of 3)									7	┼┼∳	-77	\overline{V}		7					ELECTRIC HEATER	18		
19	HP-1					4.Ø		4	Ø	2	↓ ↓↓	3	40	9.5	5					ELECTRIC HEATER	2Ø		
21	HP-1									7	┼┿┼				/					ELECTRIC HEATER	22		
23	FCU-2				0.6		7.2	5	Ø	2	┼┼∳	-77	\overline{V}		7					ELECTRIC HEATER	24		
25	FCU-2				\square					7	♦ ╂╂	3	4Ø	12.0	0					DRYING CABINET	26		
27	HP-2					2.6		2	5	2	┼┿┼									DRYING CABINET	28		
29	HP-2					//			X	7	┼┼♠	-77			7					DRYING CABINET	3Ø		
31	FCU-3				Ø.6		7.2	5	Ø	2	♦ ┼┼	3	4Ø	11.Ø	0					EDH-1	32		
33	FCU-3				//				X	7	┼┿┼				/					EDH-1	34		
35	HP-3					2.6		2	5	2	┼┼♠	-77								EDH-1	36		
37	HP-3								\mathbb{Z}	7	♦ ┼┼	3	300) 14 <i>.</i> :	.2	2.1 19.6	35.5	٦.Ø		PANEL "B" ≰ "C"	38		
39	WATER HEATER						6.0	4	Ø	2	┼┿┼				\mathbb{Z}			//		PANEL "B" ≰ "C"	4Ø		
41	WATER HEATER								\mathbb{X}	7	┼┼┿	-77				\square	\square	\square		PANEL "B" ≰ "C"	42		
	LOAD SUMMARY RECEPTACLE: 35.5 KVA MOTOR: 22.4 KVA MISC: 0.0 KVA																						
	NOTES:																						

	P,	Д	N	ΞL	E	30	0Ai	21	>			E	3		S	C	H	Ξſ	こ	1	-E	
V	DLTAGE: 120/208V, 3 PH, 4 W		M4	AINS:	400	0A 1	M.L.O.		_		1	100	INTIN	IG: S	URF,	4CE				R	EMARKS:	
в	S SIZE: 400A		-	TOTA 46.!	LL 50	OAD KVA): (DIV	ERSIFIE	ED LO		" F	AU	LTE	DUTY:	42,¢	000	AIC			FE	ED THRU LUGS	
NO	SERVES	NOTE		L	OAD	(KVA		BR	KR D	P	HASE	B		DMIGC			(KVA) PCPT	L TG	NOTE	SERVES	NO
1	E-EXH-1				1.2	4/0		20	1	Ĩ	ŦŤ	- 1	20			A/C		1.0			BATTERY CHARGER	2
3	F-E×H-2				1.2			2Ø	1	┶	┿┤	- 1	20	>	1.2						BLOCK HEATER	4
5	F-VENT-1				Ø.3			15	1	┨	┿	H 1	20	>				Ø.8			BAY OUTLETS	6
٦	EXTRACTOR				1.Ø			2Ø	1	┨	┝╋╋	- 1	20	>				Ø.8			BAY OUTLETS	8
9	CIRC. PUMP				Ø.I			15	1	┨	┿┤	- 1	20	>				0.6			BAY OUTLETS	10
11	MAF-1	2			Ø.7			15	1	₩	┿	H 1	20	>				Ø.6			BAY OUTLETS	12
13					-				-	╊	┝╋╋	- 1	20	>				1.Ø			DETOX 121	14
15	F-KHE-1				Ø.7			15	1	₩	✦┤	- 1	20	>				1.0			DETOX 121	16
Π	CU-1 / AC-1					2.1		15	2	₩	┿	H 1	2Ø	>				1.Ø			DETOX 121	18
19	CU-1 / AC-1					\square				╊	┝╋╋┥	- 1	2Ø	>				Ø.6			GEAR 119	2Ø
21	BAY DOOR				1.9			2Ø	1	Ή	┿┤	2	50	>	8.Ø					2	RANGE	22
23	BAY DOOR				1.9			2Ø	1	₽	┼┥				\square						RANGE	24
25	BAY DOOR				1.9			2Ø	1	┢	┝╋╋┥				-							26
27	BAY DOOR				1.9			2Ø	1	₽	✦┤	- 1	20	>			1.Ø				WASHER	28
29	BAY DOOR				1.9			2Ø	1	₽	┿	h 2	30	>	5.Ø						DRYER	3Ø
31	BAY DOOR				1.9			2Ø	1	╊	╷┼┼			/	\square						DRYER	32
33	DISPOSAL	\bigcirc			1.2			2Ø	1	₽	┿┤										SPACE	34
35	GENERAL PURPOSE			1.2				2Ø	1	₽	┼┥	- 1									SPACE	36
37	GENERAL PURPOSE			1.Ø				2Ø	1	╊	┝╋╋┥										SPACE	38
39	GENERAL PURPOSE			1.Ø				2Ø	1	₽	┿┤										SPACE	40
41	GENERAL PURPOSE			Ø.8				2Ø	1	┢	┼┥	- 1									SPACE	42
	LOAD SUMMARY						LIGHTII RECEF MOTOF	NG: PTAC R:	LE:	:	@ }	9.Ø 1.4 8.8	KV, KV,	д Д Д	A/C HE, MIS	C: ATING	G:	2 14 Ø	.1 1.2 .0	KV4 KV4 KV4	ι ί	
NO (1) (2)	TES: G.F.C.I. TYPE BREAKER SHUNT TRIP BREAKER CON			D B	ΥH	90D		UPPi	28	351	ON	STS	STEN	٦.								

VC	DLTAGE: 120/208V, 3 PH, 4	IJ	M4	4INS:	4Ø	ØAI	M.L <i>.O.</i>					Μ	OUI	NTINC	: SUR	FAC	Æ			R	EMARKS:	
ви	S SIZE: 400A		-	1014 31	AL LO		>: (DIVE	RSIFIE	D LC	AD)			UTY: 42,000 AIC								
		Lat		1		(Kv4	τ 4)		BR	<r< td=""><td>PH/</td><td>٩SE</td><td>B</td><td>≪R</td><td></td><td>LO</td><td>AD (KV)</td><td>4)</td><td></td><td></td><td></td><td></td></r<>	PH/	٩SE	B	≪R		LO	AD (KV)	4)				
NO	JERVEJ	NOTE	LTG	RCPT	MTR	A/C	HTG M	115C	TRIP	P	AE	зс	Q_	TRIP	MISC HI	ig A		RCPT	LŤG	NOTE	JERVEJ	
1	BEDROOM #1	2)	Ø.8					2Ø	1	┢		1	2Ø				Ø.8			DAY ROOM 114	2
3	BEDROOM #2	2)	Ø.8					2Ø	1	₩		1	2Ø				Ø.8			DAY ROOM 114	4
5	BEDROOM #3	2)	Ø.8					2Ø	1	\mathbf{H}		1	2Ø				1.Ø			DAY ROOM 114	6
٦	BATHROOM 110			1.5					2Ø	1	┢┥		1	2Ø				1.Ø			DAY ROOM 114	8
თ	IT ROOM 112			1.Ø					2Ø	1	₩		1	2Ø				1.Ø			VOTE 118	10
11	IT ROOM 112			1.Ø					2Ø	1		┢	1	2Ø				0.6			VOTE 118	12
13	KITCHEN 113			1.Ø					2Ø	1	┢		1	2Ø				0.6			VOTE 118	14
15	KITCHEN 113			1.Ø					2Ø	1	₩		1	2Ø				1.Ø			VOTE 118	16
17	KITCHEN 113			1.Ø					2Ø	1	┝╋┥	┢	1	2Ø				Ø.8			VOTE 118	18
19	KITCHEN 113	1)	1.Ø					2Ø	1	┢┥		1	2Ø				0.6			VOTE 118	20
21	KITCHEN 113			1.Ø					2Ø	1	₩		1	2Ø					Ø.5	3	EXTERIOR LIGHTING	22
23	KITCHEN 113	\bigcirc)	1.Ø					2Ø	1	┝╋┥	┢	1	2Ø					Ø.9	3	EXTERIOR LIGHTING	24
25	KITCHEN 113			1.Ø					2Ø	1	┢		1	2Ø					Ø.T		BAY LIGHTING	26
27	KITCHEN 113			1.Ø					2Ø	1	╟╋		1	2Ø					Ø.T		BAY LIGHTING	28
29	KITCHEN 113			1.Ø					2Ø	1	┝╋┝┥	┢	1	2Ø					Ø.1		BAY LIGHTING	30
31	KITCHEN 113			1.Ø					2Ø	1	┢┥		1	2Ø					Ø.T		BAY LIGHTING	32
33	HOOD				Ø.8				2Ø	1	₩		1	2Ø							SPARE	34
35	LIGHTING		Ø.9						2Ø	1		┢	1	2Ø							SPARE	36
37	LIGHTING		Ø.6						2Ø	1	┢										SPACE	38
39	LIGHTING		Ø.8						2Ø	1	╢┥										SPACE	40
41	LIGHTING		Ø.5						2Ø	1			-								SPACE	42
	LOAD SUMMARY						LIGH REC	ITINO EPT	G: ACI	_E:		٦. 24	Ø 4.1 8	ΚνΑ ΚνΑ	A H M	./C: EAT	'ING:	0 0	0 0	<va <va< td=""><td>4</td><td></td></va<></va 	4	

	PLUMBI	NG FI	XTUF	RE SO
		CON	INECTI	ONS
	DESCRIPTION	CW	нพ	S/W
HWC	WATER CLOSET-HANDICAPPED TANK TYPE	1/2"		4"
HLAV	LAVATORY-HANDICAPPED WALL HUNG	1/2"	1/2"	1-1/4"
HCTLAV	COUNTERTOP LAVATORY HANDICAPPED	1/2"	1/2"	
SK-1	STAINLESS STEEL- COUNTERTOP SINK	1/2"	1/2"	1-1/2"
MS	MOP RECEPTOR- FLOOR MOUNTED	1/2"	1/2"	3"
HSH	HANDICAPPED SHOWER VALVE ASSEMBLY	1/2"	1/2"	3"

6"F SERVICE, SEE CIVIL DWG'S FOR CONTINUATION -1-1/2"CW SERVICE, SEE CIVIL DWG'S FOR CONTINUATION -----CIRC. PUMP SEE DETAIL SHEET P1.00 1-1/2"CW DN -SPRINKLER ALARM VALVE -PRV STATION, SEE DETAIL SHEET P1.00 3/4" H&CW DROP -CONTRACTOR TO COORDINATE EXACT CONNECTION POINT TO PROPANE TANK BEFORE BEGINNING ANY WORK. PROPANE TANK LP GAS DN. -TRAP PRIMER VALVE, SEE SHEET P1.00 FOR DETAIL ф—LPG 1/2"CW DROP TO ICE MAKER BOX W/ WATTS #7 BFP _____ 3/4" H&CW DROP -3/4"HW DROP — 3/4"CW DROP — 3/4"CW DROP — WALL HYDRANT 18"AFG -

1 PLUMBING FIRST FLOOR PLAN - H&CW PIPING P1.11 SCALE: 1/8" = 1'-0"

- HWH-1 SEE DETAIL SHEET P1.00 - WALL HYDRANT 18"AFG
- 3/4"CW DROP
- 3/4"HW DROP
- 3/4" H&CW DROP
- TRAP PRIMER VALVE
- 3/4"CW DROP
- 3/4"CW DROP - WALL HYDRANT 18"AFG
- 3/4" H&CW DROP TO WASHER CONNECTION BOX - 1/2"CW DROP TO ICE MAKER BOX W/ WATTS **#**7 BFP - 3/4"CW DN (BELOW SLAB) - 3/4" H&CW DN (BELOW SLAB) — 3/4" H&CW DROP
- 3/4"HW DN (BELOW SLAB)

PROPANE FUELED EMERGENCY GENERATOR

CONTRACTOR TO COORDINATE EXACT LOCATION & CONNECTION POINT BEFORE BEGINNING ANY WORK. THE GAS COCK TO BE 10' MINIMUM FROM THE CONNECTION TO THE GENERATOR

- GAS COCK & REGULATOR. 10PSI TO 11"W.C. PRESSURE. TOTAL LOAD 964MBH — LP GAS DN

<u>S,W&V RISER DIAGRAM</u> n.t.s.

<u>S, W&V RISER DIAGRAM</u> n.t.s.

