GRANDE DUNES AMBULATORY SURGERY CENTER ADDITIONS & RENOVATIONS - PHASE III

for:

HCA SOUTH ATLANTIC AMBULATORY SURGERY DIVISION

DA PROJECT NUMBER: 22-113
DPH PROJECT NUMBER: 988426

Construction Documents

6 January 2025

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DESIGN CODES AND STANDARDS

PROJECT DESIGNED IN ACCORDANCE WITH:

1. 2021 INTERNATIONAL BUILDING CODE WITH SC MODIFICATIONS
2. 2021 INTERNATIONAL FIRE CODE WITH SC MODIFICATIONS
3. 2021 INTERNATIONAL PLUMBING CODE
4. 2021 INTERNATIONAL MECHANICAL CODE
5. 2009 INTERNATIONAL ENERGY CONSERVATION CODE
6. 2018 INTERNATIONAL FUEL GAS CODE WITH SC MODIFICATIONS
7. 2020 NATIONAL ELECTRICAL CODE - NFPA 70
8. ICC/ANSI - A117.1 - 2017 ACCESSIBLE AND USABLE BUILDING AND FACILITIES
9. SCDHEC 61.91 - 2015 STANDARDS FOR LICENSING AMBULATORY SURGICAL FACILITIES
10. NFPA 101 - 2021 LIFE SAFETY CODE
11. NFPA 99 - 2021 STANDARD FOR HEALTHCARE FACILITIES

BUILDING CODE ANALYSIS
OWNER REVIEW SUBMITTAL

NAME OF PROJECT: GRANDE DUNES ASC ADDITIONS & RENOVATIONS - PHASE III	
OWNER: HCA SOUTH ATLANTIC - AMBULATORY SURGERY DIVISION	
IBC EDITION: 2021 EDITION	DATE: JANUARY 6, 2025

CODE ITEM		CODE REF.	
OCCUPANCY CLASS		CHAPTER 3	BUSINESS; AMBULATORY CARE FACILITY
CONSTRUCTION CLASS		CHAPTER 6	TYPE II-B
			SPRINKLED
HEIGHT	ALLOWED	TABLE 504.3 & 504.4	4 STORIES; 75'-0"
	W/ INCREASE	CHAPTER 5	-
	ACTUAL	--	2 STORIES; 40'-5"
AREA	ALLOWED	TABLE 506.2	69,000SF
	W/ INCREASE	CHAPTER 5	-
	ACTUAL	--	34,350 SF (entire building); 5,779sf Addition

STRUCTURAL MEMBERS		
EXTERIOR BEARING WALLS	TABLE 601	0 HR
EXTERIOR NON-BEARING WALLS	TABLE 602	0 HR
INTERIOR BEARING WALLS	TABLE 601	0 HR; 0 HR @ ROOF ONLY
COLUMNS	TABLE 601	0 HR
BEAMS, GIRDERS	TABLE 601	0 HR
FLOOR CONSTRUCTION	TABLE 601	0 HR
ROOF CONSTRUCTION	TABLE 601	0 HR
SEPARATION WALLS		
FIRE WALLS	TABLE 706.4	3 HR
OCCUPANCY SEPARATION WALL	TABLE 508.4	0 HR
EXIT STAIR	SECT. 1023.2	1 HR
HORIZONTAL EXIT	SECT. 1026.2	2 HR
EXIT ACCESS CORRIDOR WALLS	TABLE 1020.1	0 HR
ELEVATOR SHAFT WALLS	SECT. 713.4	1 HR
INTERIOR PARTITIONS	TABLE 601	0 HR

ARCHITECT:

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315 Main Street, Suite 2B
Conway, South Carolina 29526
Ph: 843.455.6879

CIVIL ENGINEER:

DEVELOPMENT RESOURCE GROUP
4703 Oleander Drive
Myrtle Beach, South Carolina 29577
Ph: 843.839.3350

STRUCTURAL ENGINEER:

MARTINEZ & ASSOCIATES
1101 Johnson Avenue, Suite 200
Myrtle Beach, South Carolina 29577
Ph: 843.839.1620

MECHANICAL, ELECTRICAL, PLUMBING, & FIRE PROTECTION ENGINEER:

DWG CONSULTING ENGINEERS
1009 Anna Knapp Boulevard, Suite 202
Mt. Pleasant, South Carolina 29464
Ph: 843.849.1141

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STATE OF SOUTH CAROLINA — Doyle Architecture, LLC — Conway, SC — No. 101503 — REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA — PAUL G. DOYLE — MYRTLE BEACH, SC — 7389 — REGISTERED ARCHITECT

GRANDE DUNES A.S.C.
RENOVATION - PHASE III
Myrtle Beach, South Carolina
for:
HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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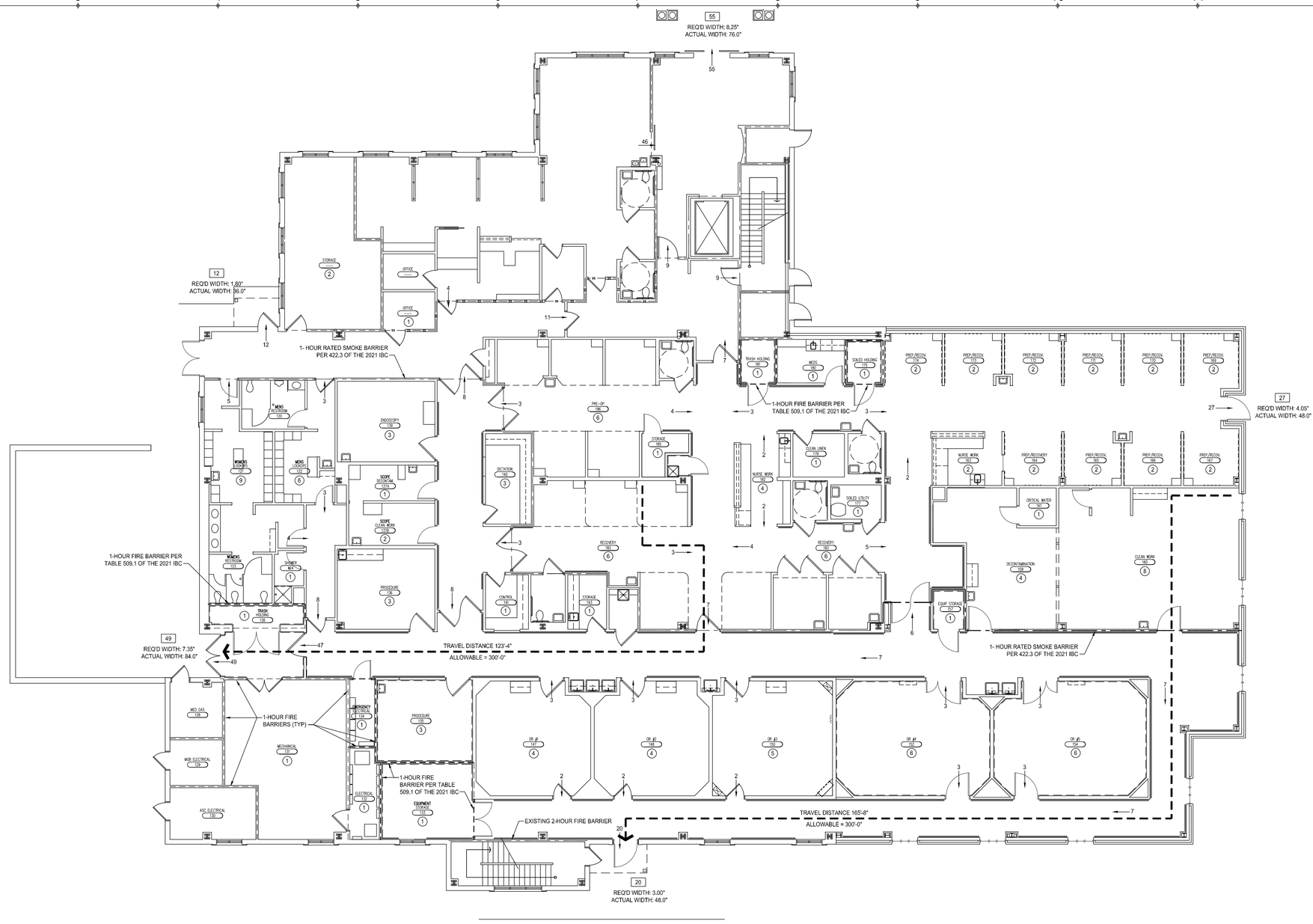
REVISIONS:

TITLE:

COVER SHEET

SHEET:

G-001



F1 FIRST FLOOR LIFE SAFETY PLAN

6-110 SCALE: 1/8" = 1'-0"

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STATE OF SOUTH CAROLINA REGISTERED ARCHITECTS
Doyle Architecture, LLC Conway, SC No. 101503

STATE OF SOUTH CAROLINA REGISTERED ARCHITECT
PAUL G. DOYLE
NITRIDE REGION, SC
7389

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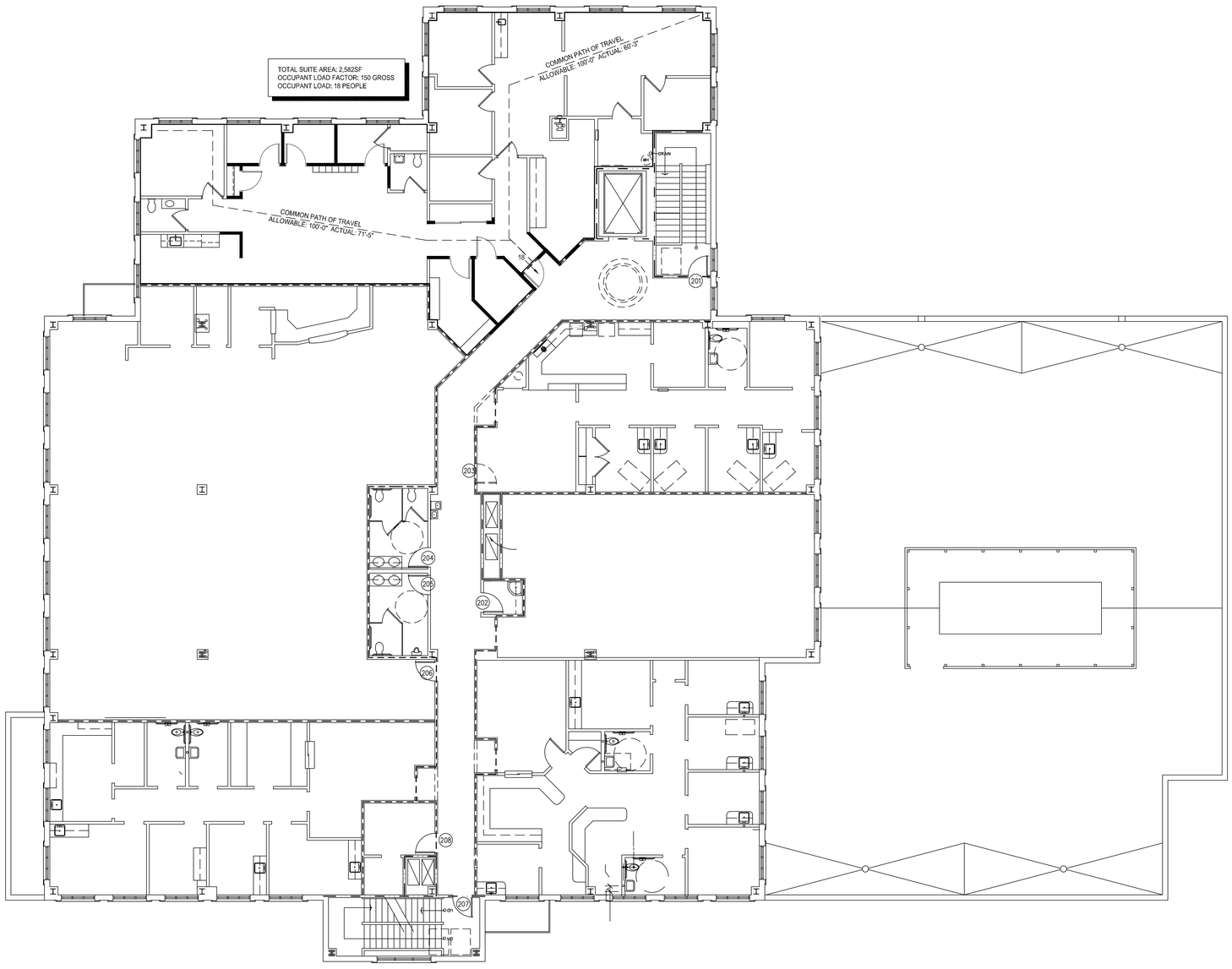
REVISIONS:

TITLE:
FIRST FLOOR LIFE SAFETY PLAN

SHEET:
G-110



F1 SECOND FLOOR LIFE SAFETY PLAN

G-120 SCALE: 1/8" = 1'-0"

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Doyle Architecture, LLC
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REGISTERED ARCHITECTS

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PAUL G. DOYLE
MYRTLE BEACH, SC
17389
REGISTERED ARCHITECT

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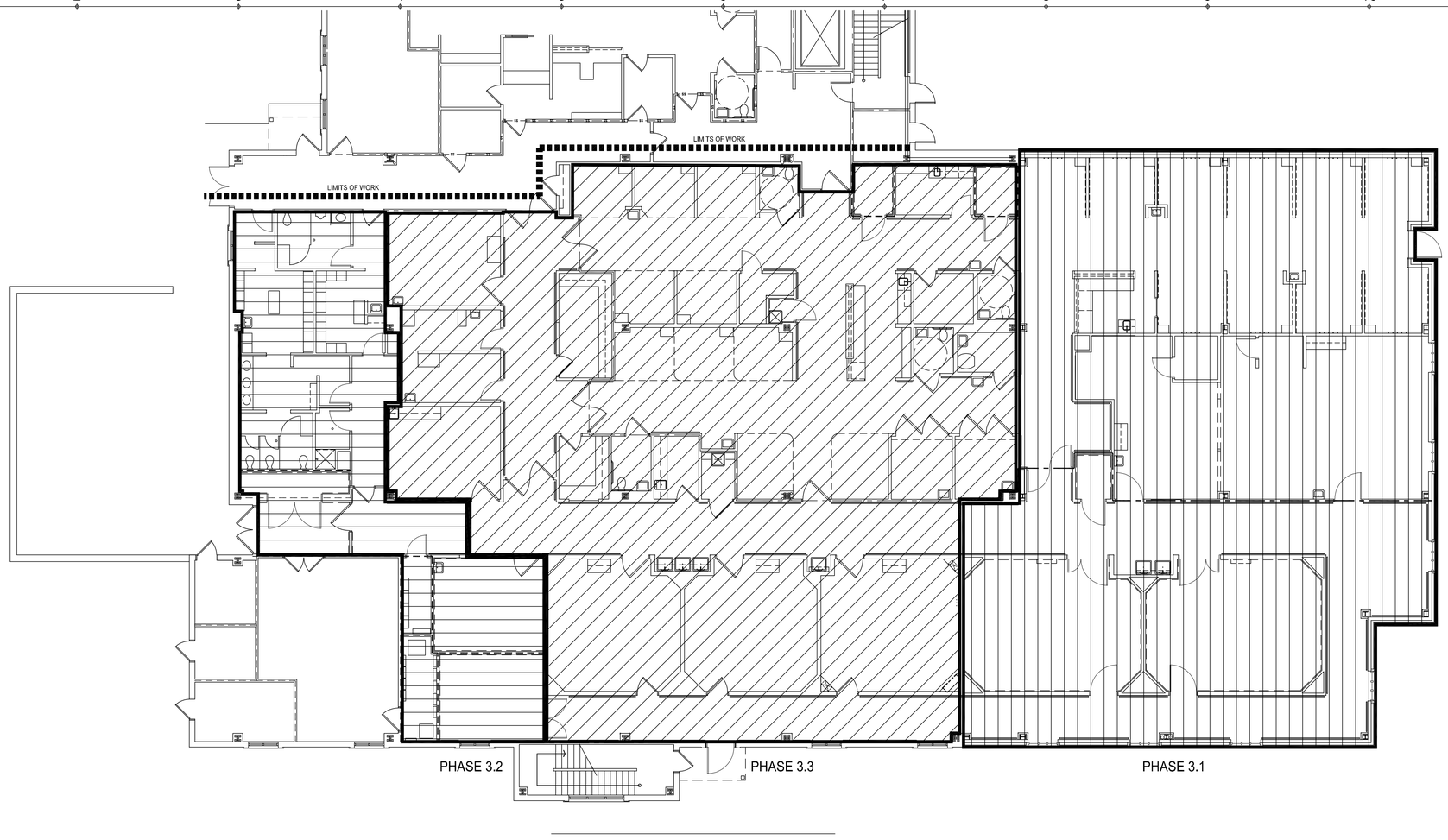
REVISIONS:

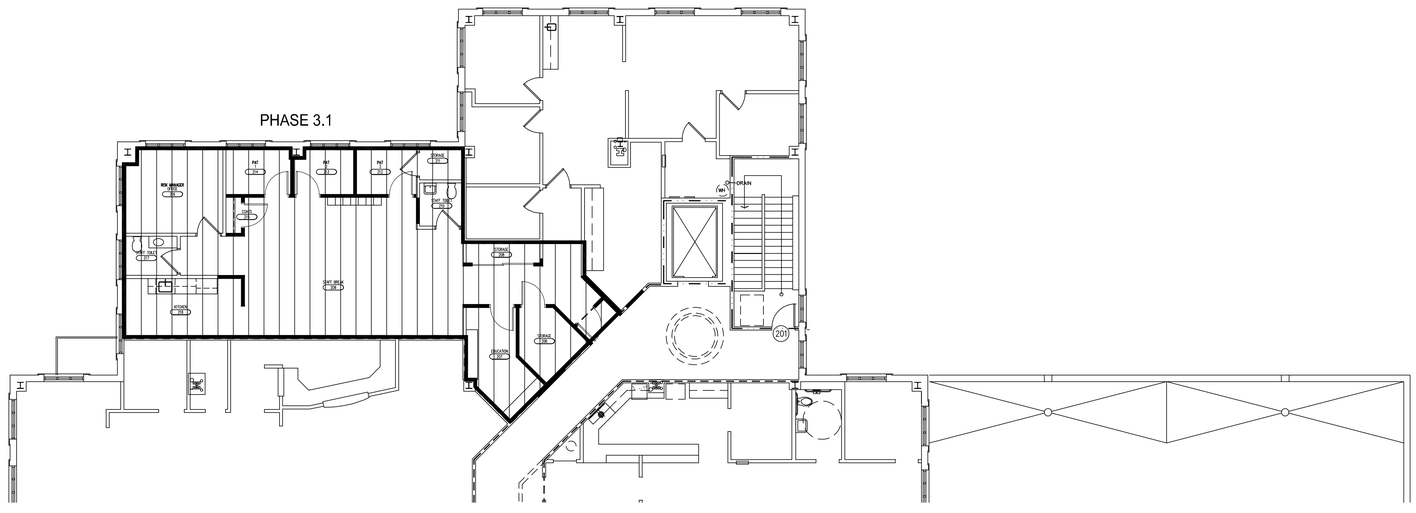
TITLE:
SECOND FLOOR LIFE SAFETY PLAN

SHEET:
G-120



E1 FIRST FLOOR PHASING PLAN

6-150 SCALE: 1/8" = 1'-0"



H1 SECOND FLOOR PHASING PLAN

6-150 SCALE: 1/8" = 1'-0"

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REVISIONS:

TITLE:

PHASING PLANS

SHEET:

G-150

GRANDE DUNES SURGERY CENTER EXPANSION

FOR

DOYLE ARCHITECUTRE LLC.

PROJECT SUMMARY

HORIZONTAL DATUM : NAD 83

VERTICAL DATUM : NAVD 88

BENCHMARK : NAIL IN ASPHALT - SEE SHEET C3.0

PARCEL PIN #'(S) : 394-09-04-0028

CURRENT ZONING : PD (GRANDE DUNES RESORT)
PROPOSED LAND USE : MEDICAL OFFICE
TOTAL PARCEL AREA = ±2.88 ACRES
LAND DISTURBANCE AREA = ±0.56 ACRES

PARKING REQUIREMENT :
MEDICAL OFFICE : 4 STALLS PER 1000 SQFT
CALCULATION :
34406 OFFICE SPACE /1000 x 4 STALLS = 138 STALLS REQ'D

PARKING PROVIDED : 138 STALLS
STANDARD = 132 STALLS
HANDICAPPED = 6 STALLS

BUILDING SETBACKS :
SECTION 103.01 SET BY ARC GUIDELINES (VARY PER APPROVAL)
SECTION 102.10 ZERO SETBACKS FOR PARCELS NOT LOCATED ON THE PUD BOUNDARY
SECTION 102.10 50' SETBACK FROM ALL PUBLIC R/W FOR STRUCTURE OVER 50' IN HEIGHT

WETLAND AREA = N/A
POND AREA = N/A

STORMWATER
MASTER STORMWATER SYSTEM: 'LSTAR 82nd TO HWY 17 BUS/HWY 17 BYP' DATED 03-23-16

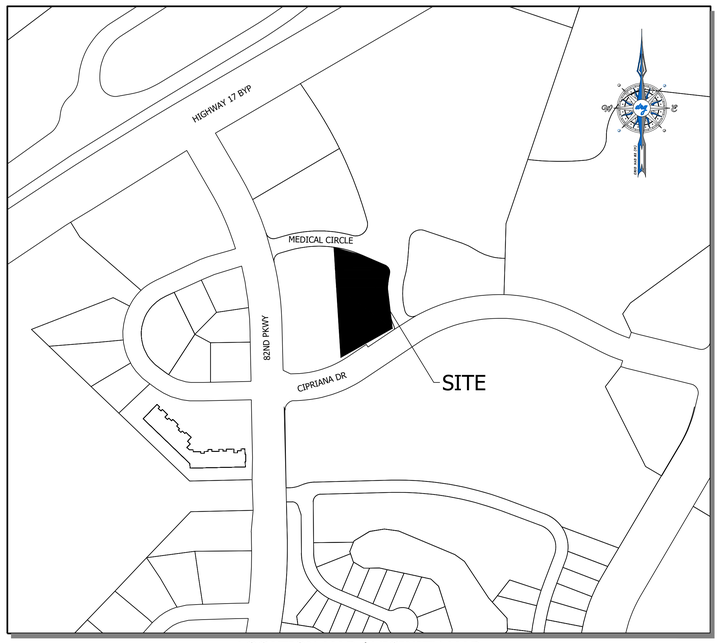
MODEL BASIN: LABCORP
MODEL CN: 89
ALLOWABLE IMPERVIOUS AREA: 85%
POST DEVELOPMENT IMPERVIOUS AREA: 75%

THIS PROPERTY IS LOCATED IN FLOOD ZONE "X" AS SCALED FROM F.I.R.M. No. 45051C0589 H, DATED DEC. 16, 2021, THIS PLAT IS NOT THE BASIS FOR FLOOD ZONE DETERMINATION OR FLOOD ZONE RELATED ISSUES.

CONTRACTOR SHALL BE KNOWLEDGEABLE WITH LOCAL, CITY, COUNTY, STATE, AND FEDERAL REGULATIONS AS THEY MAY PERTAIN TO THIS PROJECT AND SHALL ADHERE TO THESE REGULATIONS.

INFORMATION REGARDING THE PRESENCE, SIZE, CHARACTER, AND LOCATION OF ANY UNDERGROUND UTILITY AND/OR STRUCTURE SHOWN ON THIS PLAN IS APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE ALL UNDERGROUND UTILITIES LOCATED.

SITE LOCATION
HORRY COUNTY, SC



LOCATION MAP / VICINITY MAP
SCALE 1" = 200'

Sheet List Table

SHEET NUMBER	SHEET TITLE
C1.0	COVER
C2.0	GENERAL NOTES
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C4.0	DEMO PLAN
C5.0	SITE PLAN
C6.0	GRADING, DRAINAGE, & UTILITY PLAN
C7.1	E&SC PLAN 1
C7.2	E&SC PLAN 2
C8.0	DETAILS 1
C8.1	DETAILS 2
L1.0	LANDSCAPE PLAN
L2.0	LANDSCAPE PLAN 2

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

drg
DEVELOPMENT RESOURCE GROUP, LLC
4703 OLEANDER DRIVE
MYRTLE BEACH, SC 29577
843-839-3350 | DRGPLLC.COM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION DEVELOPMENT RESOURCE GROUP, LLC No.6089

SOUTH CAROLINA PROFESSIONAL ENGINEER NO. 40337 PHILIP T. HORNSBY

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CONWAY, SC 29526
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COVER SHEET
GRANDE DUNES SURGERY CENTER EXPANSION

PREPARED FOR:
DOYLE ARCHITECUTRE LLC.
315 MAIN STREET, SUITE 2B
CONWAY, SC, 29526
843-455-6879

PLANS FOR PERMITTING

JOB NO: 24162
SCALE: 1" = 200'
DRAFTED BY: RLB
DESIGNED BY: RLB
APPROVED BY: PTH
DATE: 2025-01-06

SHEET NUMBER: C1.0

GRANDE DUNES A.S.C.
RENOVATION - PHASE III
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REVISIONS:

TITLE:

SHEET:

GENERAL LEGEND

	GRAVEL		EARTH
	UNDISTURBED EARTH		WETLAND
	RIPRAP		CONCRETE
TYP	TYPICAL	BOD	BOTTOM OF DITCH
EX/EXIST	EXISTING	EOP	EDGE OF PAVEMENT
PR/PROP	PROPOSED	EOC	EDGE OF CONCRETE
BOC	BACK OF CURB	RDS	RADIUS
TBC	TOP BACK OF CURB	HP	HIGH POINT
TOB	TOP OF BANK	LP	LOW POINT
BOB	BOTTOM OF BANK	CI	CURB INLET
TOD	TOP OF DITCH	GI	GRATE INLET

TREE LEGEND

24"/BAY 40' C | TREE DIA. AND TYPE DIA. OF TREE CANOPY

ASH(ASH)	HICKORY(HI)	POST OAK(PSO)
BASSWOOD(BAS)	HOLLY(HOL)	RED OAK(RO)
BAY(BAY)	JUNIPER(JUN)	TURKEY OAK(TU)
BEECH(BE)	MAGNOLIA(MG)	WATER OAK(WTO)
BERRY(BERRY)	MAPLE(MA)	WHITE OAK(WHO)
BIRCH(BI)	RED MAPLE(RM)	WILLOW OAK(WO)
CEDAR(CE)	MIMOSA(MI)	ORNAMENTAL(ORN)
CHERRY(CHR)	MYRTLE(MY)	PALMETTO(PAL)
COTTONWOOD(COT)	WAX MYRTLE(WXM)	PECAN(PCN) PEAR(PE)
CYPRESS(CY)	OAK(OAK)	PINE(PI)
DOGWOOD(DO)	CHESTNUT OAK(CHO)	POPLAR(POP)
ELM(ELM)	LAUREL OAK(LA)	SYCAMORE(SYC)
GUM(GUM)	LIVE OAK(LO)	WILLOW(WIL)
BLACK GUM(BG)	PIN OAK(PNO)	PROTECTED TREE APPROX. CANOPY

Permanent Seeding - Coastal

Species	Lbs/Ac	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Sandy, Droughty Sites													
Browntop Millet	10 lbs./ac.												
Bahiagrass	40 lbs./ac.												
Browntop Millet	10 lbs./ac.												
Bahiagrass	30 lbs./ac.												
Sericea Lespedeza	40 lbs/ac.												
Browntop Millet	10 lbs./ac.												
Atlantic Coastal	15 lbs./ac.												
Panicgrass	PLS												
Browntop Millet	10 lbs./ac.												
Switchgrass	8 lbs./ac.												
(Alamo)	PLS												
Little Bluestem	4 lbs./ac.												
Sericea Lespedeza	20 lbs./ac.												
Browntop Millet	10 lbs./ac.												
Weeping Lovegrass	8 lbs./ac.												
Well drained, clayey/loamey Sites													
Browntop Millet	10 lbs./ac.												
Bahiagrass	40 lbs./ac.												
Rye, Grain	10 lbs./ac.												
Bahiagrass	40 lbs./ac.												
Clover, Crimson	5 lbs./ac.												
(Annual)													
Browntop Millet	10 lbs./ac.												
Bahiagrass	30 lbs./ac.												
Sericea lespedeza	40 lbs./ac.												
Browntop Millet	10 lbs./ac.												
Bermuda, Common	10 lbs./ac.												
Sericea lespedeza	40 lbs./ac.												
Browntop Millet	10 lbs./ac.												
Bermuda, Common	12 lbs./ac.												
Kobe Lespedeza	10 lbs./ac.												
(Annual)													
Browntop Millet	10 lbs./ac.												
Bahiagrass	20 lbs./ac.												
Bermuda, Common	6 lbs./ac.												
Sericea lespedeza	40 lbs./ac.												
Browntop Millet	10 lbs./ac.												
Switchgrass	8 lbs./ac.												
Little Bluestem	PLS												
Indiangrass	3 lbs./ac. PLS												
	3 lbs./ac. PLS												

Temporary Seeding – Coastal

Species	Lbs/Ac	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Sandy, Droughty Sites													
Browntop Millet	40 lbs./ac.												
Rye, Grain	56 lbs./ac.												
Well drained, clayey/loamey Sites													
Browntop Millet or Japanese Millet	40 lbs./ac.												
Rye, Grain or Oats	56 lbs./ac. 75 lbs./ac.												

GENERAL NOTES

1. IF ANY ERRORS BECOME APPARENT, THESE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
2. THE CONTRACTOR SHALL CONFINE ALL WORK WITHIN THE LIMITS SHOWN.
3. CONTRACTOR IS RESPONSIBLE FOR HAVING, IN HIS POSSESSION, ALL REQUIRED PERMITS AND APPROVALS PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF ALL PERMITS OBTAINED FOR THE PROJECT.
4. THE CONTRACTOR SHALL RESTORE GROUND SURFACE, DRAINAGE DITCHES AND EMBANKMENTS TO ORIGINAL GRADE AND VEGETATION ACCORDING TO PROJECT SPECIFICATIONS UNLESS OTHERWISE NOTED ON PLANS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LINES, GRADES AND ELEVATIONS. ALL PIPES SHALL SLOPE UNIFORMLY BETWEEN INVERT ELEVATIONS SHOWN
6. THE CONTRACTOR SHALL ENSURE THAT EACH BUSINESS AND HOMEOWNER HAS ONE SAFE POINT OF ACCESS FOR CUSTOMERS AND DELIVERIES AT ALL TIMES. THE CONTRACTOR SHALL MAINTAIN ACCESS KEEP IT SAFE, CLEAN AND FREE OF DEBRIS AND PROVIDE THE NECESSARY SAFETY DEVICES WHERE NEEDED.
7. THE CONTRACTOR SHALL GIVE AFFECTED BUSINESS OWNERS AND HOMEOWNER AT LEAST A TWO (2) WORKING DAY ADVANCED NOTICE OF REMOVAL, DEMOLITION AND /OR CONSTRUCTION ACTIVITY IN FRONT OF OR AFFECTING ACCESS TO THAT BUSINESS OR HOME.
8. THE CONTRACTOR SHALL PRESERVE AND PROTECT PROPERTY MARKERS, SECTION CORNERS, SURVEY MARKS AND BENCH MARKS, SUCH AS STONES, PIPES, OR OTHER MONUMENTS ENCOUNTERED. IF THE CONTRACTOR MUST DISTURB THE PROPERTY MARKERS OR MONUMENTS, THEIR HORIZONTAL AND VERTICAL LOCATION SHALL BE DETERMINED AND RECORDED BY A REGISTERED LAND SURVEYOR AND THE OWNER NOTIFIED BEFORE DISTURBING. ALL PROPERTY MARKERS AND MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE RE-ESTABLISHED BY A REGISTERED LAND SURVEYOR.
9. ALL MATERIALS REQUIRED MUST BE PROVIDED AS NEW AND OF THE QUALITY CALLED OUT IN THE DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE THE EXACT MATERIALS AND PLACE THEM IN ACCORDANCE WITH THE DOCUMENTS AND REGULATORY AGENCY REQUIREMENTS.
10. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS DISCOVERED. SHOULD THE CONTRACTOR PROCEED WITH CONSTRUCTION PRIOR TO DOING THIS AND ANY CONFLICTS OCCUR THEN THE CONTRACTOR WILL BE RESPONSIBLE FOR THE TOTAL COST TO REMEDY THE SITUATION INCLUDING ENGINEERING FEES. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION. IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPAIR THEM AT HIS OWN EXPENSE.
11. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SITE SAFETY DURING ALL PHASES OF CONSTRUCTION.
12. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL GEOTECHNICAL ENGINEERING, COMPACTION, SOILS AND COMPACTION TESTING, AND HOMESITE SUITABILITY. ENGINEER MAKES NO REPRESENTATIONS OR WARRANTIES CONCERNING GEOTECHNICAL ENGINEERING, COMPACTION, SOILS, COMPACTION TESTING OR HOMESITE SUITABILITY.

EROSION CONTROL NOTES

1. IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.
   - WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
   - WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY, OR INCORRECTLY, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C REG. 72-300 ET SEQ. AND SCR100000.
8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
9. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
11. A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE;
15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).
16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
   - WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
   - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;
   - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
   - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
18. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

SITE WORK

1. EXISTING CONTOURS AND ELEVATIONS AS SHOWN ON THIS PLAN WERE TAKEN FROM A FIELD TOPOGRAPHIC SURVEY PREPARED BY DRG, DATED JULY 2024, CONTRACTOR SHALL CONTACT AND REFERENCE SAME BENCHMARK AS USED BY SURVEYOR.
2. BEFORE ANY EARTHWORK IS DONE, THE CONTRACTOR SHALL STAKE OUT AND FLAG THE CLEARING LIMITS, TREES TO BE SAVED & OTHER ITEMS ESTABLISHED BY THE PLANS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING AND SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.
3. CLEARING LIMITS SHALL BE, AT A MINIMUM, THE CLEARING REQUIRED IN ORDER TO FACILITATE THE WORK, OR TO PROVIDE FOR ADDITIONAL UTILITIES OR EASEMENTS AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. NO TREE SHALL BE REMOVED OR DAMAGED WITHOUT PRIOR AUTHORIZATION OF THE OWNER OR OWNER'S REPRESENTATIVE. EXISTING TREES TO BE SAVED, AS SHOWN ON THE DRAWINGS, SHALL BE PRESERVED.
5. ALL BACKFILL AND FILL SOILS SHOULD BE NON-PLASTIC AND GRANULAR IN NATURE. SOILS SHOULD BE PLACED IN MAXIMUM EIGHT (8.0) INCH COMPACTED LIFTS. EACH LIFT SHALL BE COMPACTED TO AT LEAST NINETY-FIVE PERCENT (95%) OF THE SOIL'S MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557).
6. CONTRACTOR IS RESPONSIBLE FOR PROPERLY DISPOSING OF UNSUITABLE MATERIAL OFF SITE. ALL SUITABLE MATERIAL SHALL BE STOCKPILED AT OWNERS DIRECTION.
7. ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED. UNUSABLE EXCAVATED MATERIAL AND ALL WASTE RESULTING FROM SITE CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF SITE BY THE CONTRACTOR AT THEIR EXPENSE UNLESS INSTRUCTED OTHERWISE BY THE ENGINEER.
8. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL GEOTECHNICAL ENGINEERING CONCERNING THE SITE, HOMESITE LOCATION, COMPACTION, SOILS AND COMPACTION TESTING AND HOMESITE SUITABILITY.

DRAINAGE

1. ALL MATERIALS AND WORKMANSHIP ARE TO CONFORM TO THE REQUIREMENTS SET FORTH BY CITY OF MYRTLE BEACH, SCDOT AND DES.
2. IF AN ITEM IS NOT COVERED BY THESE PLANS, THEN CITY OF MYRTLE BEACH AND SCDOT AND DES GENERAL SPECIFICATIONS COVERING SUCH ITEMS SHALL APPLY.
3. ALL DRAINAGE PIPE SHALL BE RCP, CLASS III UNLESS OTHERWISE SPECIFIED.
4. FOR PIPE JOINTS, AND DRAINAGE STRUCTURES, CONTRACTOR SHALL USE TYPE M OR S MORTAR.
5. ALL DRAINAGE PIPE ELEVATION LABELS LIST THE INVERT OF PIPE ELEVATION, AND THE NAME OF THE CONNECTING STRUCTURE. (IN/OUT)
6. ALL DRAINAGE STRUCTURES GREATER THAN 6' IN DEPTH SHALL UTILIZE STEPS.
7. ALL PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
8. ALL DRAINAGE STRUCTURE SIZES ARE SHOWN FOR DESIGN PURPOSES ONLY. MANUFACTURER AND/OR CONTRACTOR TO DETERMINE ACTUAL SIZE.

WATER AND SEWER

1. ALL MATERIALS AND WORKMANSHIP ARE TO CONFORM TO THE REQUIREMENTS SET FORTH BY GRAND STRAND WATER AND SEWER AUTHORITY AND DES.
2. IF AN ITEM IS NOT COVERED BY THESE PLANS, THEN GRAND STRAND WATER AND SEWER AUTHORITY AND DES GENERAL SPECIFICATIONS COVERING SUCH ITEMS SHALL APPLY.
3. WATER MAINS SHALL BE MINIMUM, C-900, DR18 PVC PIPE, BLUE IN COLOR.
4. HYDRANTS SHALL BE MUELLER SUPER CENTURION A423 (4 1/2" MAIN VALVE)
5. SEWER PIPE SHALL BE MINIMUM, SDR 35 PVC PIPE, GREEN IN COLOR.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING RECORD DRAWINGS TO THE ENGINEER SHOWING THE LOCATION OF WATER INFRASTRUCTURE IN STATE PLANE COORDINATES AND ANY DEVIATIONS FROM PLANS MADE DURING CONSTRUCTION. THE ENGINEER WILL PROVIDE RECORD PLANS TO GRAND STRAND WATER AND SEWER AUTHORITY.
7. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE UTILITIES. ALL PUBLIC PIPE, STRUCTURES, AND FITTINGS SHALL BE INSPECTED BY GRAND STRAND WATER AND SEWER AUTHORITY INSPECTOR PRIOR TO BEING COVERED. THE INSPECTOR MUST ALSO BE PRESENT DURING DISINFECTION AND PRESSURE TESTING OF ALL MAINS. THE CONTRACTOR'S BID PRICE SHALL INCLUDE ALL TESTING AND INSPECTION FEES.
8. WATER MAINS SHALL HAVE A MINIMUM COVER OF 36" BELOW PROPOSED FINISHED GRADE.
9. ALL UNDERGROUND UTILITIES AND FIRE HYDRANTS MUST BE FUNCTIONALLY APPROVED PRIOR TO BUILDING CONSTRUCTION.
10. IN NO SUCH CASE SHALL SEWER SLOPES BE LESS THAN INDICATED ON THESE PLANS.
11. ALL SEWER PIPE ELEVATION LABELS LIST THE INVERT OF PIPE ELEVATION, AND THE NAME OF THE CONNECTING STRUCTURE. (IN/OUT)

PAVING

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE PLANS SCDOT STANDARD SPECIFICATIONS, LATEST EDITION, CITY OF MYRTLE BEACH SPECIFICATIONS, AND GEOTECHNICAL REPORT (WHEN PROVIDED).
2. UPON COMPLETION OF PAVING, CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PAVEMENT CORE DATA AS REQUESTED BY CITY OF MYRTLE BEACH OR THE ENGINEER.
3. PRIME COAT AND TACK COAT APPLICATION TO BE IN ACCORDANCE WITH SCDOT STANDARD SPECIFICATIONS.
4. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE SCDOT STANDARDS/FOR ROADWAY CONSTRUCTION AND THE MUTCD FOR HIGHWAY CONSTRUCTION.
5. UNLESS OTHERWISE DIRECTED, PAVEMENT MARKINGS SHALL BE PAINT OR AS DIRECTED BY THE OWNER.
6. ALL STOP BARS AND ARROWS ARE TO BE THERMOPLASTIC.
8. SAW CUTS ON EXISTING PAVEMENT FOR PATCHING SHALL HAVE A TYPICAL MINIMUM WIDTH OF 24 INCHES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

drg
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SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION DEVELOPMENT RESOURCE GROUP, LLC No.6089

SOUTH CAROLINA PROFESSIONAL ENGINEER CARLTON F. HORNSBY, JR. NO. 40337

DOYLE ARCHITECTURE, LLC
315 MAIN STREET, SUITE 2B
CONWAY, SC 29526
843.455.6879

GENERAL NOTES A

GRANDE DUNES SURGERY CENTER EXPANSION

PREPARED FOR:
DOYLE ARCHITECTURE LLC.
315 MAIN STREET. SUITE 2B
CONWAY, SC. 29526
843-455-6879

PLANS FOR PERMITTING

JOB NO:	24162
SCALE:	NTS
DRAFTED BY:	RLB
DESIGNED BY:	RLB
APPROVED BY:	PTH
DATE:	2025-01-06

SHEET NUMBER:

C2.0

GRANDE DUNES A.S.C.
RENOVATION - PHASE III
Myrtle Beach, South Carolina
for:
HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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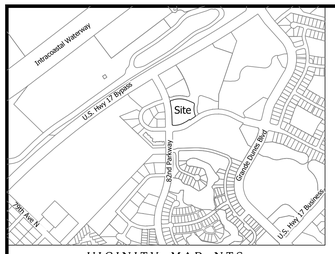
TITLE:

SHEET:



~VICINITY MAP N.T.S.~

NOTES:

1. Tax Parcel: PIN: 394-09-04-0028
   TMS: 165-00-01-094
2. Owner of Record: DCA 1021, LLC C/O Century Equities Inc.
   1233 Main St #1500
   Wheeling, WV 26003
3. This property appears to be located in Flood Zone "X" , According to FEMA flood zones per F.I.R.M. 45051C 0589 K, dated Dec. 16th, 2021. This property does not appear to be the located in Horry County supplemental flood zone; is not the basis for flood zone determination or flood zone related issues.
4. Declaration is made to original purchaser of the survey. It is not transferable to additional institutions or subsequent owners.
5. This survey is only valid if print of same has original signature and embossed seal of the surveyor.
6. Surveyor has made no investigation or independent search for easements of record, encumbrances, restrictive covenants, ownership title evidence, or any other facts that an accurate and current title search may disclose.
7. Subsurface and environmental conditions were not examined or considered as a part of this survey. No statement is made concerning the existence of underground or overhead containers or facilities that may affect the use or development of this tract.
8. This property is subject to all easements or restrictions of record.
9. Last property transfer Deed Book 4087, Page 999.
10. 1/2" Iron Pipes Set at all corners unless noted otherwise.
11. All Bearings are based upon the South Carolina State Plane Coordinate System (NAD83)(2011). All distances shown are Horizontal not grid distances.
12. Date of Field Survey: July, 2024
13. Property Line from Plat Book 279, Page 261

REFERENCES:

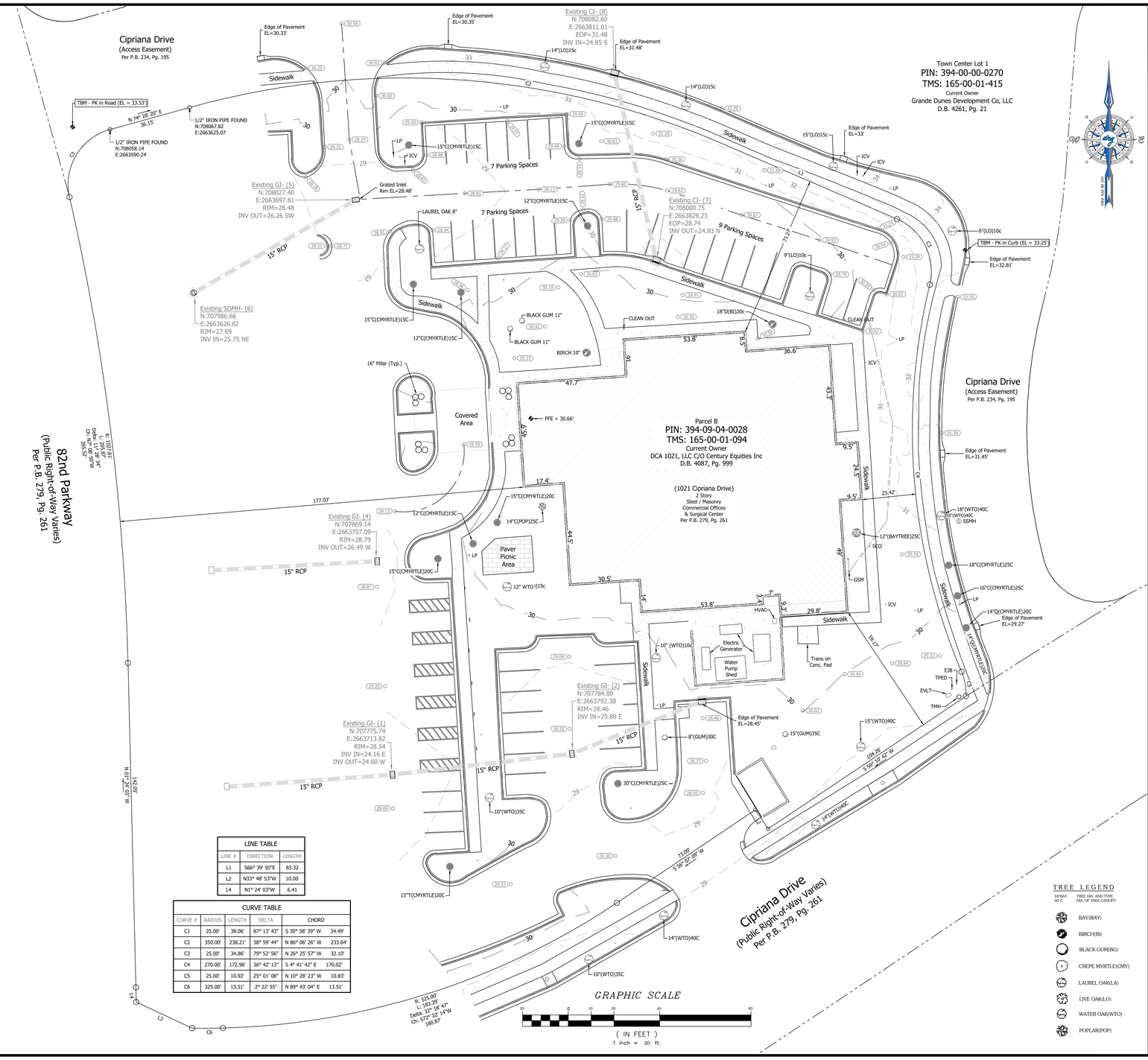
1. Plat Entitled, ALTA/NSPS Land Title Survey of 1021 Cipriana Drive, Remainder of Parcel B by Robert A. Warner and Associates, Inc prepared for 1021 Partners, LLC and Recorded in the Horry County Registrar of Deeds in Plat Book 279, Page 261

LEGEND

- Iron Pipe Found (IPF)
- Iron Rebar Found (IRF)
- Gas Meter (GSM)
- Telephone Pedestal (TPED)
- Electric Junction Box (EJB)
- Light Pole (LP)
- Transformer (TRANS)
- Electric Vault (EVLT)
- Temporary Benchmark (TBM)
- Finished Floor Elevation (FFE)
- Calculated Point (CP)
- Sewer Manhole (SSMH)
- Sewer Cleanout (SCO)
- Irrigation Control Valve (ICV)
- Telecommunications Manhole (TMH)
- Underground Gas
- Concrete
- Building
- Paver

Vertical Datum Reference: (NAVD88)
Contour Intervals Major - 5'
Minor - 1'

XX.XX =Spot Elevation



LINE TABLE		
LINE #	DIRECTION	LENGTH
L1	S66° 39' 50"E	83.32
L2	N33° 48' 53"W	10.00
L4	N1° 24' 03"W	6.41

CURVE TABLE				
CURVE #	RADIUS	LENGTH	DELTA	CHORD
C1	25.00'	38.06'	87° 13' 43"	S 30° 58' 39" W 34.49'
C2	350.00'	238.21'	38° 59' 44"	N 86° 06' 26" W 233.64'
C3	25.00'	34.86'	79° 52' 56"	N 26° 25' 57" W 32.10'
C4	270.00'	172.96'	36° 42' 13"	S 4° 41' 42" E 170.02'
C5	25.00'	10.92'	25° 01' 08"	N 10° 28' 23" W 10.83'
C6	325.00'	13.51'	2° 22' 55"	N 89° 43' 04" E 13.51'

TREE LEGEND

24"BAY 40' C — TREE DIA. AND TYPE, DIA. OF TREE CANOPY

- BAY(BAY)
- BIRCH(BI)
- BLACK GUM(BG)
- CREPE MYRTLE(CMY)
- LAUREL OAK(LA)
- LIVE OAK(LO)
- WATER OAK(WTO)
- POPLAR(POP)

DWG NAME: P:\24533 - DCA 1021 - GRANDE DUNES SURGERY CENTER SURVEY\SURVEY_SURVEY CAD DRAWINGS\24.533 TOPOGRAPHIC SURVEY.DWG

drg
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4703 Oleander Drive
Myrtle Beach, SC 29577
Telephone: 843-839-3350
www.drgpllc.com

SOUTH CAROLINA DEVELOPMENT RESOURCE GROUP LLC No. 000089

JOB No.	24.533
DATE:	07-24-2024
DRAFTED BY:	J.G.H.
CHECKED BY:	M.D.O.
SCALE:	1"= 20'
FILE:	P:/24.533/SURVEY

TOPOGRAPHIC SURVEY OF
1021 CIPRIANA DRIVE SURGERY CENTER
PIN: 394-09-04-0028 TMS: 165-00-01-094
MYRTLE BEACH, HORRY COUNTY, SOUTH CAROLINA
PREPARED FOR:
DCA 1021, LLC

SOUTH CAROLINA PROFESSIONAL LAND SURVEYOR MICHAEL D. ODEN No. 17531

mike@drgpllc.com

DATE	REVISION

No. 24533

DOYLE ARCHITECTURE, LLC
315 MAIN STREET, SUITE 2B
CONWAY, SC 29526
843.455.6879

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GRANDE DUNES A.S.C.
RENOVATION - PHASE III
Myrtle Beach, South Carolina
for:
HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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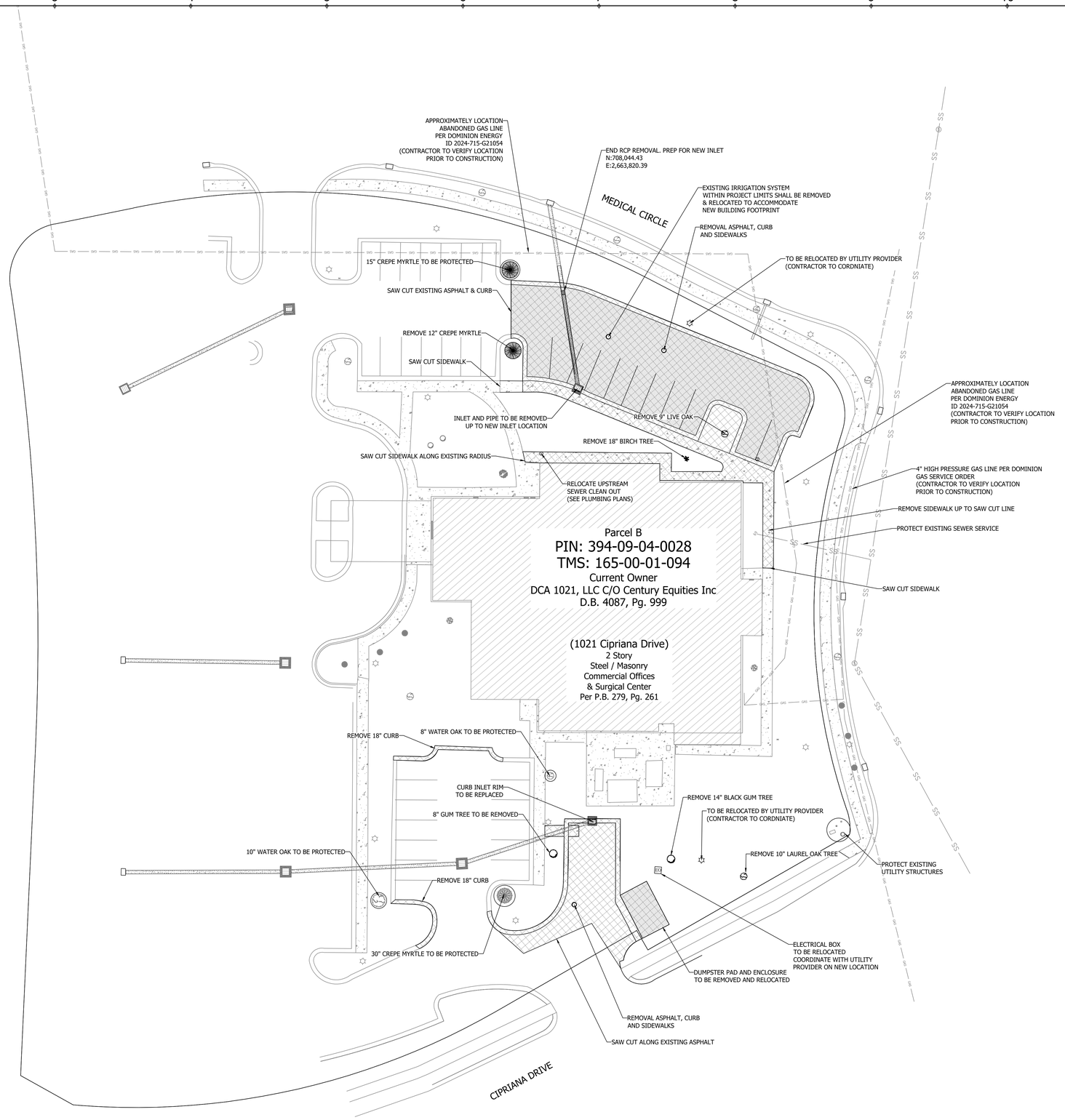

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

1 inch = 20 ft.

drg

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SOUTH CAROLINA — CERTIFICATE OF AUTHORIZATION — DEVELOPMENT RESOURCE GROUP, LLC — No.6089

SOUTH CAROLINA — PROFESSIONAL ENGINEER — NO. 40337 — PHILIP T. HORNSBY

DEMO PLAN

GRANDE DUNES SURGERY CENTER EXPANSION

PREPARED FOR:
DOYLE ARCHITECUTRE LLC.
315 MAIN STREET, SUITE 2B
CONWAY, SC, 29526
843-455-6879

PLANS FOR PERMITTING

JOB NO:	24162
SCALE:	1" = 20'
DRAFTED BY:	RLB
DESIGNED BY:	RLB
APPROVED BY:	PTH
DATE:	2025-01-06

SHEET NUMBER:

C4.0

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GRANDE DUNES A.S.C. RENOVATION - PHASE III

Myrtle Beach, South Carolina

for:

HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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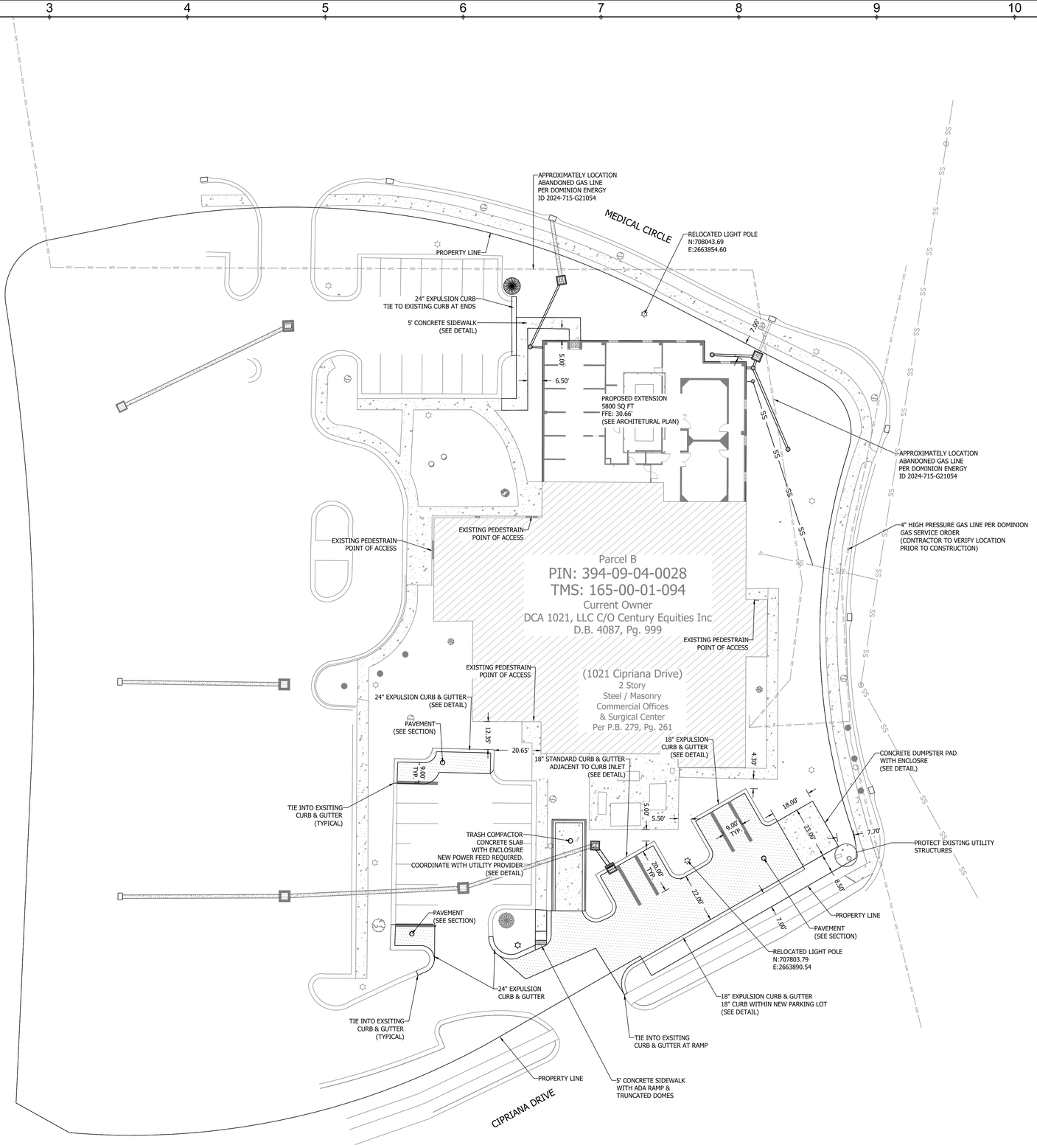

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

1 inch = 20 ft.

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SOUTH CAROLINA — DEVELOPMENT RESOURCE GROUP, LLC — No.6089 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — NO. 40337 — PHILIP T. HORNSBY

SITE PLAN

GRANDE DUNES SURGERY CENTER EXPANSION

PREPARED FOR:
DOYLE ARCHITECUTRE LLC.
315 MAIN STREET, SUITE 2B
CONWAY, SC, 29526
843-455-6879

PLANS FOR PERMITTING

JOB NO:	24162
SCALE:	1" = 20'
DRAFTED BY:	RLB
DESIGNED BY:	RLB
APPROVED BY:	PTH
DATE:	2025-01-06

SHEET NUMBER:

C5.0

DOYLE ARCHITECTURE, LLC
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GRANDE DUNES A.S.C. RENOVATION - PHASE III

Myrtle Beach, South Carolina

for: HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
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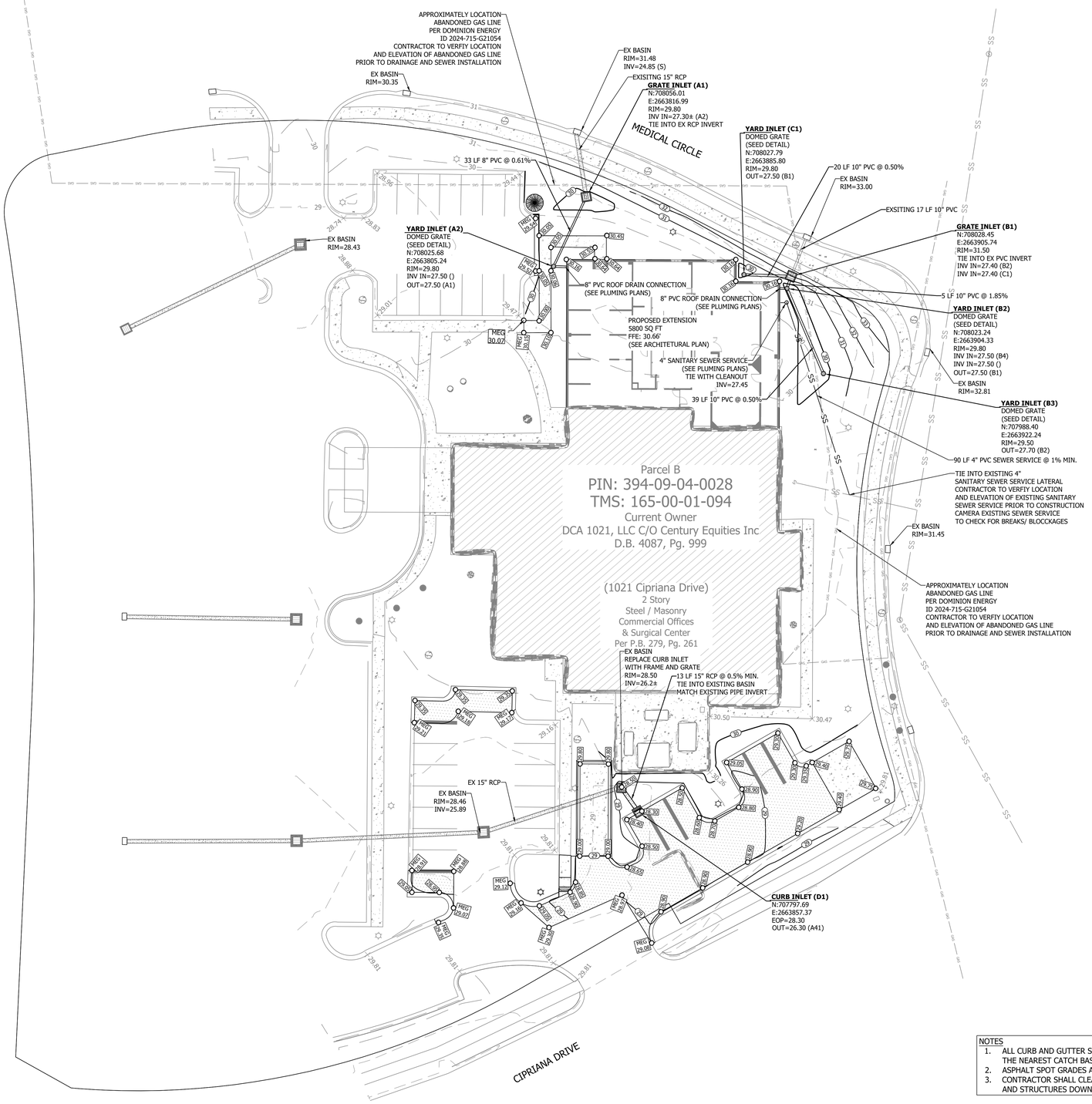
TITLE:

SHEET:



NOTES
1. ALL CURB AND GUTTER SHALL UTILIZE UNDERDRAINS WHICH TIE INTO THE NEAREST CATCH BASIN, SEE DETAIL.
2. ASPHALT SPOT GRADES ARE TO EDGE OF PAVEMENT
3. CONTRACTOR SHALL CLEAN OUT EXISTING ADJOINING DRAINAGE PIPES AND STRUCTURES DOWNSTREAM OF NEW DRAINAGE INSTALLATIONS.

GRAPHIC SCALE
-20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

drg
DEVELOPMENT RESOURCE GROUP, LLC
4703 OLEANDER DRIVE
MYRTLE BEACH, SC 29577
843-839-3350 | DRGPLLC.COM

SOUTH CAROLINA
DEVELOPMENT RESOURCE GROUP, LLC
No.6089
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
PROFESSIONAL ENGINEER
NO. 40337
PHILIP T. HORNSBY

DOYLE ARCHITECTURE, LLC
315 MAIN STREET, SUITE 2B
CONWAY, SC 29526
843.455.6879

GRADING & DRAINAGE PLAN

GRANDE DUNES SURGERY CENTER EXPANSION

PREPARED FOR:
DOYLE ARCHITECUTRE LLC.
315 MAIN STREET, SUITE 2B
CONWAY, SC, 29526
843-455-6879

PLANS FOR PERMITTING

JOB NO:	24162
SCALE:	1" = 20'
DRAFTED BY:	RLB
DESIGNED BY:	RLB
APPROVED BY:	PTH
DATE:	2025-01-06

SHEET NUMBER:
C6.0

GRANDE DUNES A.S.C. RENOVATION - PHASE III

Myrtle Beach, South Carolina

for:

HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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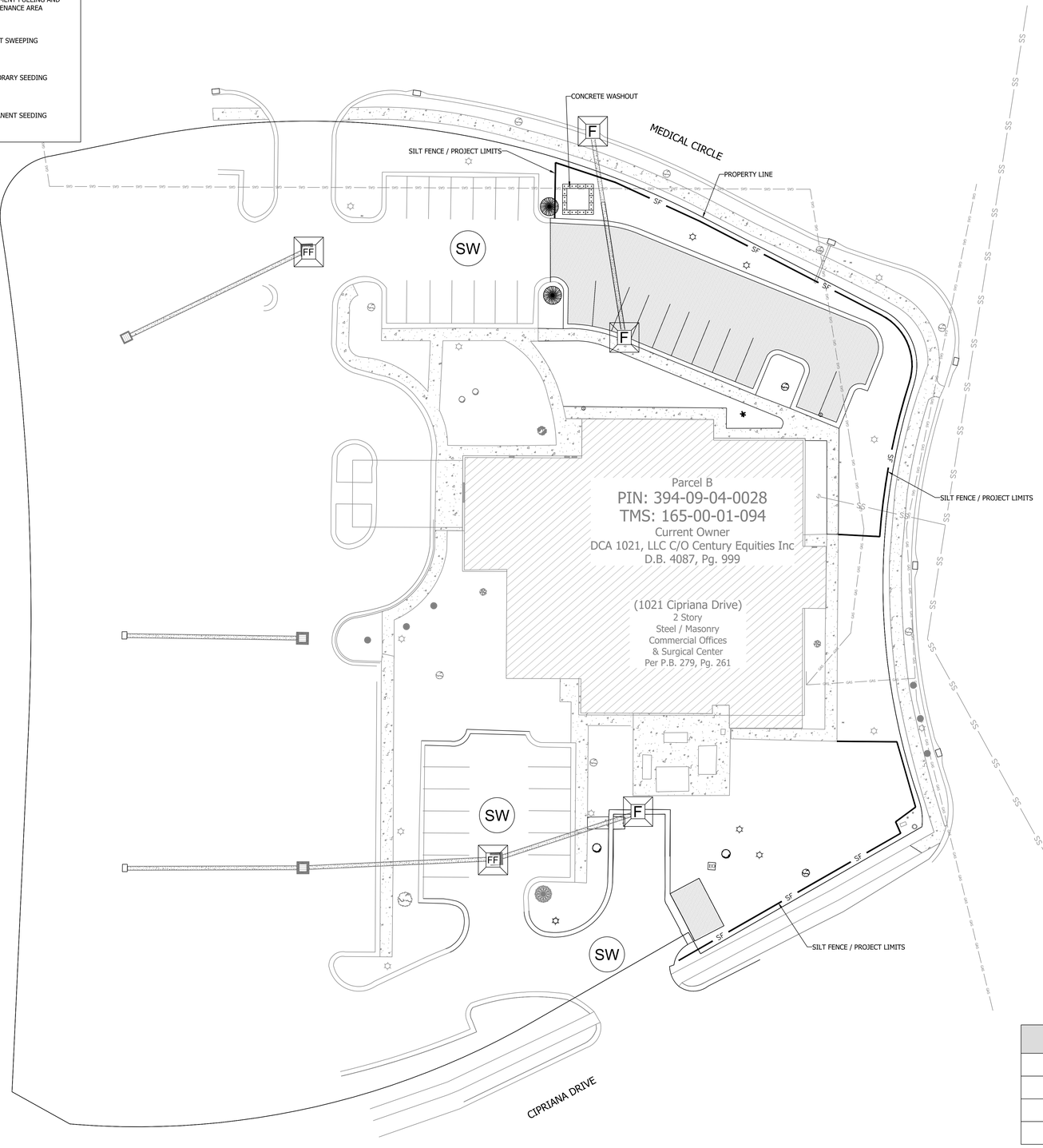
REVISIONS:

TITLE:

SHEET:

PLAN LEGEND

SF — SILT FENCE (SEE DETAIL)	CONCRETE WASHOUT
A — TYPE A INLET PROTECTION FABRIC & STAKES) (SEE DETAIL)	EQUIPMENT FUELING AND MAINTENANCE AREA
F — TYPE F INLET PROTECTION (SCDEC - SEE DETAIL)	SW — STREET SWEEPING
FF — TYPE FF INLET PROTECTION (FILTER FABRIC - SEE DETAIL)	TS — TEMPORARY SEEDING
CLEARING AND GRUBBING	PS — PERMANENT SEEDING



CONSTRUCTION PHASE 1	DATE
MOBILIZE ONSITE	
INSTALL PERIMETER SILT FENCE	
INSTALL PHASE 1 INLET PROTECTION	
BEGIN STREET SWEEPING	

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

1 inch = 20 ft.

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MYRTLE BEACH, SC 29577
843-839-3350 | DRGPLLC.COM

SOUTH CAROLINA — DEVELOPMENT RESOURCE GROUP, LLC — No.6089 — STATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — NO. 40337 — PHILIP T. HORNSBY

DOYLE ARCHITECTURE, LLC
315 MAIN STREET, SUITE 2B
CONWAY, SC 29526
843.455.6879

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E&SC PLAN 1

GRANDE DUNES SURGERY CENTER EXPANSION

PREPARED FOR:
DOYLE ARCHITECJTRE LLC.
315 MAIN STREET, SUITE 2B
CONWAY, SC, 29526
843-455-6879

PLANS FOR PERMITTING

JOB NO:	24162
SCALE:	1" = 20'
DRAFTED BY:	RLB
DESIGNED BY:	RLB
APPROVED BY:	PTH
DATE:	2025-01-06

SHEET NUMBER:

C7.1

GRANDE DUNES A.S.C. RENOVATION - PHASE III

Myrtle Beach, South Carolina

for:

HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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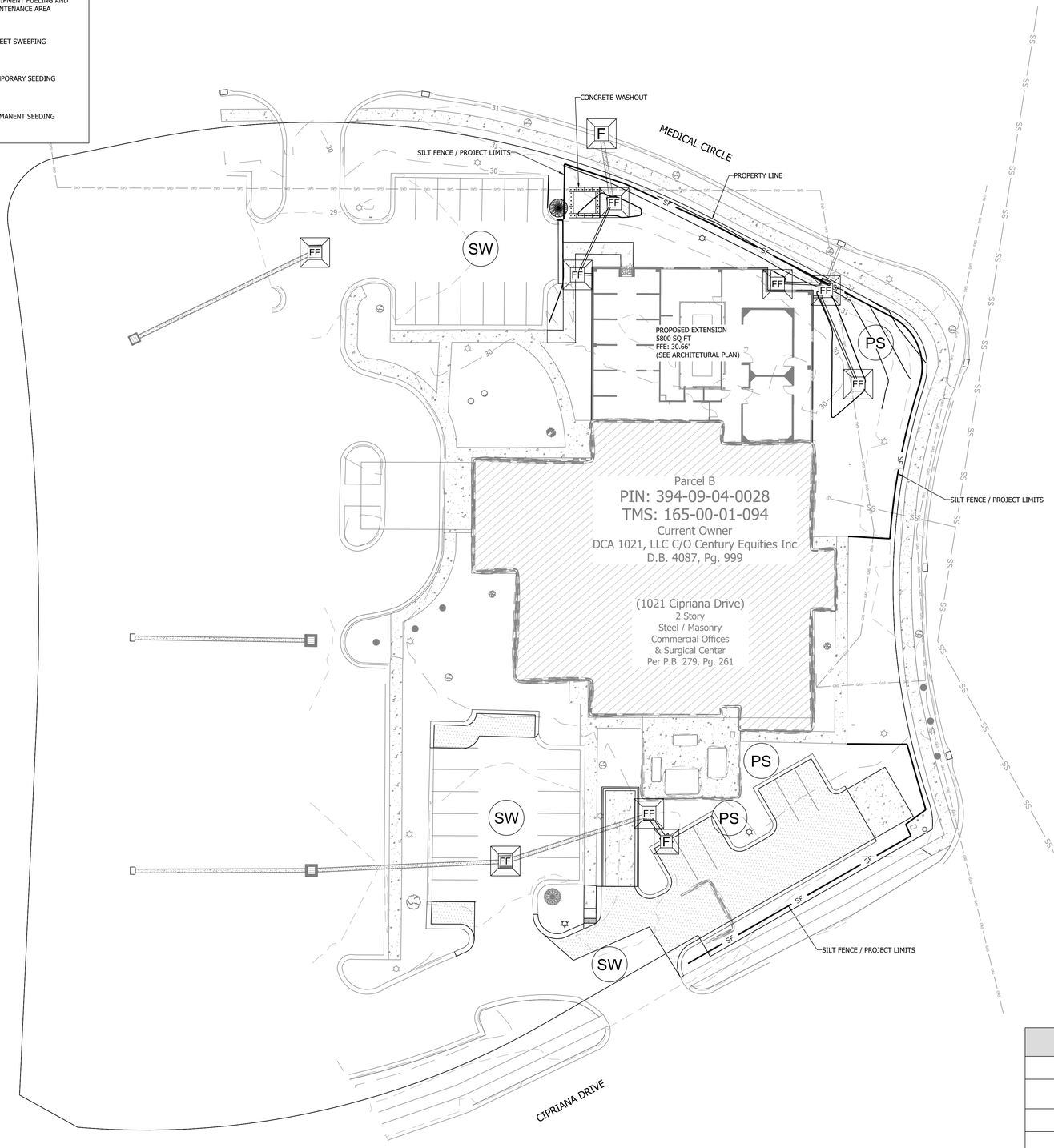
REVISIONS:

TITLE:

SHEET:

PLAN LEGEND

SF — SILT FENCE (SEE DETAIL)	CONCRETE WASHOUT
A — TYPE A INLET PROTECTION FABRIC & STAKES) (SEE DETAIL)	EQUIPMENT FUELING AND MAINTENANCE AREA
F — TYPE F INLET PROTECTION (SCDEC - SEE DETAIL)	SW — STREET SWEEPING
FF — TYPE FF INLET PROTECTION (FILTER FABRIC - SEE DETAIL)	TS — TEMPORARY SEEDING
CLEARING AND GRUBBING	PS — PERMANENT SEEDING



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

1 inch = 20 ft.

CONSTRUCTION PHASE 2	DATE
ESTABLISH MATERIAL STORAGE AREA PER SWPPP & CGP	
INSTALL CONCRETE WASHOUT PRIOR TO BEGINNING CONCRETE CURB INSTALLATION	
STABILIZE REMAINING DISTURBED AREAS	
INSTALL PHASE 2 INLET PROTECTION (SEE DETAILS)	
BEGIN VERTICAL CONSTRUCTION	
SILT FENCE REMOVAL - TO COMMENCE ONCE 75% VEGETATIVE COVER HAS BEEN ACHIEVED	
CONTINUE STREET SWEEPING	

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MYRTLE BEACH, SC 29577
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SOUTH CAROLINA — PROFESSIONAL ENGINEER — NO. 40337 — PHILIP T. HORNSBY

E&SC PLAN 2

GRANDE DUNES SURGERY CENTER EXPANSION

PREPARED FOR:
DOYLE ARCHITECUTRE LLC.
315 MAIN STREET, SUITE 2B
CONWAY, SC, 29526
843-455-6879

PLANS FOR PERMITTING

JOB NO:	24162
SCALE:	1" = 20'
DRAFTED BY:	RLB
DESIGNED BY:	RLB
APPROVED BY:	PTH
DATE:	2025-01-06

SHEET NUMBER:

C7.2

DOYLE ARCHITECTURE, LLC
315 MAIN STREET, SUITE 2B
CONWAY, SC 29526
843.455.6879

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GRANDE DUNES A.S.C. RENOVATION - PHASE III

Myrtle Beach, South Carolina

for:

HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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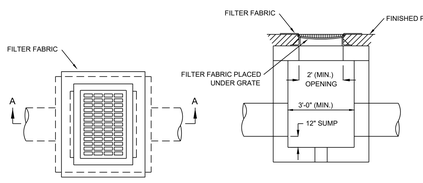


PLAN SECTION "A-A"

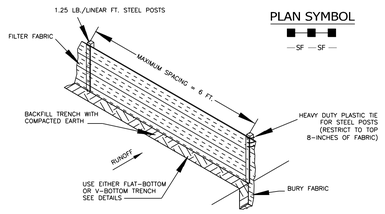
INLET PROTECTION - TYPE FF

C.R.B.	N.T.S.	08/27/23

DEVELOPMENT RESOURCE GROUP, LLC

drg

SILT FENCE INSTALLATION



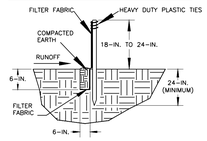
PLAN SYMBOL

—SF—SF—

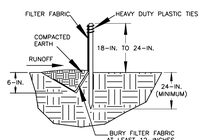
SILT FENCE - GENERAL NOTES

1. Do not place silt fence across channels or in other areas subject to concentrated flows. Silt fence should not be used as a velocity control BMP. Concentrated flows are any flows greater than 0.5 cfs.
2. Maximum sheet or overland flow path length to the silt fence shall be 100-feet.
3. Maximum slope steepness (normal [perpendicular] to the fence line) shall be 2:1.
4. Silt fence joints, when necessary, shall be completed by one of the following options:
   - Wrap each fabric together at a support post with both ends fastened to the post, with a 1-foot minimum overlap;
   - Overlap silt fence by installing 3-feet passed the support post to which the new silt fence roll is attached. Attach old roll to new roll with heavy-duty plastic ties; or,
   - Overlap entire width of each silt fence roll from one support post to the next support post.
5. Attach filter fabric to the steel posts using heavy-duty plastic ties that are evenly spaced within the top 8-inches of the fabric.
6. Install the silt fence perpendicular to the direction of the stormwater flow and place the silt fence the proper distance from the toe of steep slopes to provide sediment storage and access for maintenance and cleanout.
7. Install Silt Fence Checks (Tie-Backs) every 50-100 feet, dependent on slope, along silt fence that is installed with slope and where concentrated flows are expected or are documented along the proposed/installed silt fence.

FLAT-BOTTOM TRENCH DETAIL



V-SHAPED TRENCH DETAIL

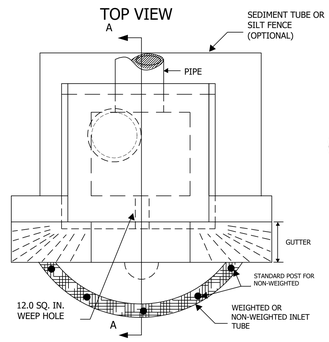


South Carolina Department of Health and Environmental Control

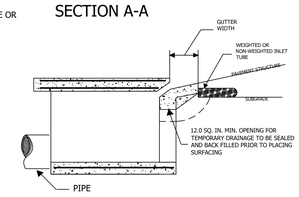
SILT FENCE

STANDARD DRAWING NO.	SC-03 Page 1 of 2	
NOT TO SCALE		FEBRUARY 2014 DATE

TOP VIEW



SECTION A-A



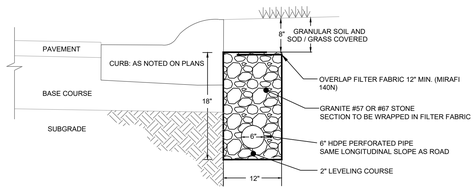
PLAN SYMBOL

F

South Carolina Department of Health and Environmental Control

Type F
INLET TUBES

STANDARD DRAWING NO.	SC-11 PAGE 1 of 2	
NOT TO SCALE		FEBRUARY 2014 DATE



NOTES

1. SLOPE SUBDRAIN SAME AS ROAD AND TIE INTO NEAREST STORM DRAIN CATCH BASIN/CURB INLET.
2. UNDERDRAINS ARE TO BE INSPECTED PRIOR TO COVERING.
3. SUBDRAIN SHALL NOT BE INSTALLED BELOW THE AVERAGE POND ELEVATION AND SHALL BE INSTALLED ABOVE THE NORMAL WATER ELEVATION OF NEARBY PONDS.
4. THE UNDERDRAINS WILL BE CONNECTED STRAIGHT INTO AND OUT OF THE CATCH BASINS. NO "T's" WILL BE ALLOWED INTO THE CATCH BASINS
5. UNDERDRAIN SHALL BE INSTALLED BEHIND CURB AND MEDIANS, ALONG ENTIRE LENGTH OF ROAD.
6. ALL UNDERDRAIN SHALL BE INSTALLED MIN. 6" ABOVE POND NWL

SUBDRAIN / UNDERDRAIN

C.R.B.	N.T.S.	08/24/23

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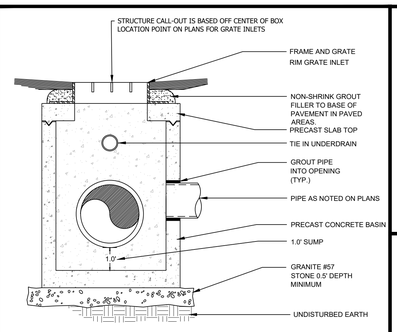


NOTES

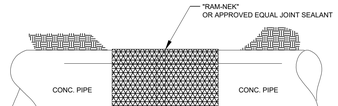
1. ALL BASINS AND SLAB TOPS TO BE PRECAST AND DESIGNED FOR HS-20 LOAD RATING MINIMUM.
2. ANY STRUCTURE DEEPER THAN 4.5' SHALL HAVE STEPS

CATCH BASIN / JUNCTION BOX

C.R.B.	N.T.S.	04/19/24

DEVELOPMENT RESOURCE GROUP, LLC

drg

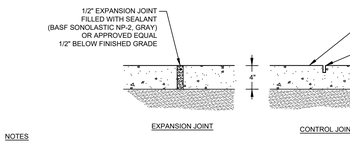


CONCRETE PIPE JOINT DETAIL

C.R.B.	N.T.S.	08/27/23

DEVELOPMENT RESOURCE GROUP, LLC

drg



NOTES

1. CONCRETE SHALL BE FIBER REINFORCED AND SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI. MAXIMUM AGGREGATE SIZE SHALL BE 1/2" DIAMETER.
2. CONTROL JOINTS SHALL BE PLACED AT 5' O.C. MAX. EXPANSION JOINTS SHALL BE PLACED AT 30' O.C. MAX.
3. ALL SIDEWALK'S CROSS SLOPE TO BE MIN 1.0% AND 2.0% MAXIMUM.
4. ALL SIDEWALK SHALL BE 5' WIDE, UNLESS NOTED OTHERWISE
5. CONCRETE SHALL HAVE AN AIR CONTENT OF 5% (+/-2%).

CONCRETE SIDEWALK

C.R.B.	N.T.S.	03/13/24

DEVELOPMENT RESOURCE GROUP, LLC

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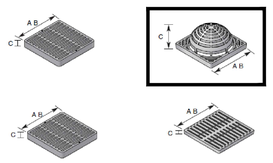
NDS Catch Basin 9" 12" 18" 24" Grates

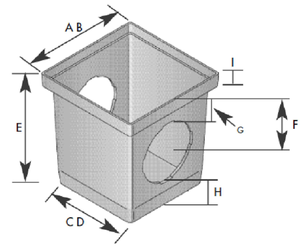


Dimension Key

A	Width
B	Length
C	Height
D	Size of openings
E	Open surface area
F	Gallons per minute
G	Weight

Part Number	A	B	C	D	E	F	G
965	9"	9"	4 3/4	3/8	20.86 Sq. In.	37.33 GPM	0.87
995	9"	9"	4 3/4	3/8	20.86 Sq. In.	37.33 GPM	0.87
1280	11 3/4	11 3/4	4 1/2	3/8	50.45 Sq. In.	66.35 GPM	2
1290	11 3/4	11 3/4	4 1/2	3/8	50.45 Sq. In.	66.35 GPM	2
1680	16 17/18	16 17/18	6	1/2	87.91 Sq. In.	115.15 GPM	3.5
1681	16 17/18	16 17/18	6	1/2	87.91 Sq. In.	115.15 GPM	3.5
990	9"	9"	1 1/8	7/16	39.5 Sq. In.	51.75 GPM	1.5
990	9"	9"	1 1/8	7/16	39.5 Sq. In.	51.75 GPM	1.5
999	9"	9"	1 1/8	7/16	39.5 Sq. In.	51.72 GPM	1.5
9995	9"	9"	1 1/8	7/16	39.5 Sq. In.	51.75 GPM	1.5
1210	11 3/4	11 3/4	1 1/8	3/8	50.76 Sq. In.	66.51 GPM	2
1211	11 3/4	11 3/4	1 1/8	3/8	50.76 Sq. In.	66.51 GPM	2
1212	11 3/4	11 3/4	1 1/8	3/8	50.76 Sq. In.	66.51 GPM	2
12120	11 3/4	11 3/4	1 1/8	3/8	50.76 Sq. In.	66.51 GPM	2
1810	16 7/8	16 7/8	1	7/16	104.06 Sq. In.	136.24 GPM	5.5
1811	16 7/8	16 7/8	1	7/16	104.06 Sq. In.	136.24 GPM	5.5
1812	16 7/8	16 7/8	1	7/16	104.06 Sq. In.	136.24 GPM	5.5
18120	16 7/8	16 7/8	1	7/16	104.06 Sq. In.	136.24 GPM	5.5
2411	23 7/8	23 7/8	2	7/8	231.49 Sq. In.	303.01 GPM	9
2412	23 7/8	23 7/8	2	7/8	231.49 Sq. In.	303.01 GPM	9
913	9"	9"	1 1/8	9/16	35.7 Sq. In.	46.77 GPM	1.5
1213	12	12	1 1/8	3/8	89.8 Sq. In.	77.93 GPM	1.8
1813	16 7/8	16 7/8	1	1	165.75 Sq. In.	158.53 GPM	10
2413	23 7/8	23 7/8	2	1	303.75 Sq. In.	394.97 GPM	13
915	8 3/4	8 3/4	1 1/8	3/4	60.90 Sq. In.	66.15 GPM	2.25
1515	14 3/4	14 3/4	1 1/8	3/4	151.90 Sq. In.	165.15 GPM	5.5
1815	16 3/4	16 3/4	1	1	291.90 Sq. In.	387.21 GPM	17
2415	23 3/4	23 3/4	3	1 1/4	333.06 Sq. In.	435 GPM	47

NDS 9" 12" 18" 24" Catch Basins



Dimension Key

A	Top Width
B	Top Length
C	Bottom Width
D	Bottom Length
E	Height
F	Center of Flow from top of Box
G	Top of opening to top of box
H	Bottom of opening to bottom of box
I	Height of grating shelf
J	Length of Spigot
K	Weight

Part Number	A	B	C	D	E	F	G	H	I	J	K
900	9 3/8	9 3/8	8 1/8	8 1/8	10 1/8	5 9/16	2 5/16	1 1/16	1 1/8		3
900-4	9 3/8	9 3/8	8 1/8	8 1/8	10 1/8	5 9/16	2 5/16	1 1/16	1 1/8		2
1200	12 3/8	12 3/8	10 1/8	10 1/8	12 15/16	7 3/8	3 3/4	2 3/8	1 1/8		4.25
1203	12 3/8	12 3/8	10 1/8	10 1/8	12 15/16	7 3/8	3 3/4	2 3/8	1 1/8		3.75
1204	12 3/8	12 3/8	10 1/8	10 1/8	12 15/16	7 3/8	3 3/4	2 3/8	1 1/8		3.75
1882	17 11/16	17 11/16	13	13	18 9/16	11 1/4	8 1/8	1 13/16	1		10
1884	17 11/16	17 11/16	13	13	18 9/16	11 1/4	8 1/8	1 13/16	1		9.5
2400	24 3/4	24 3/4	19.6	19 3/5	24	14 1/2	4 3/8	1 5/8	2		18
2404	24 3/4	24 3/4	19.6	19 3/5	24	14 1/2	4 3/8	1 5/8	2		15

DETAILS

GRANDE DUNES SURGERY CENTER EXPANSION

PREPARED FOR:
DOYLE ARCHITECTURE LLC.
315 MAIN STREET, SUITE 2B
CONWAY, SC, 29526
843-455-6879

PLANS FOR PERMITTING

JOB NO:	24162
SCALE:	CUSTOM
DRAFTED BY:	RLB
DESIGNED BY:	RLB
APPROVED BY:	PTH
DATE:	2025-01-06

SHEET NUMBER:

C8.0

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SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION DEVELOPMENT RESOURCE GROUP, LLC No.6089 STATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER PETER T. HORNSBY NO. 40337

GRANDE DUNES A.S.C.
RENOVATION - PHASE III
Myrtle Beach, South Carolina
for:
HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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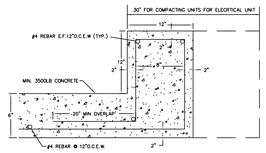
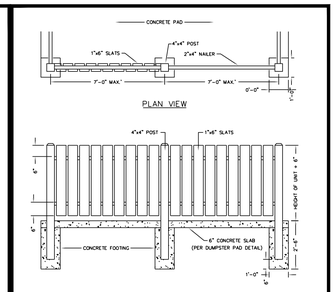


FOR ADDITIONAL INFORMATION CONTACT THE SOLID WASTE MANAGEMENT DIVISION AT 843-918-2161.

REVISED: FEBRUARY 2009

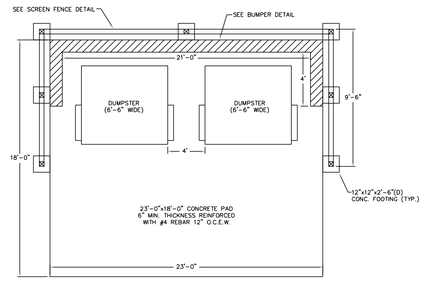
Concrete Bumper	City of Myrtle Beach Department of Public Works	
	Date: 8/8/00	Sheet: M-7



NOTES:
1. FOR ADDITIONAL INFORMATION CONTACT THE SOLID WASTE MANAGEMENT DIVISION AT 843-918-2161.
2. SCREEN FENCE IS A MINIMUM DUMPSTER / COMPACTOR REQUIREMENT. ALTERNATIVE ENCLOSURE MAY BE USED UPON CITY APPROVAL.
3. ALL LUMBER FOR SCREEN FENCE MUST BE TREATED LUMBER.

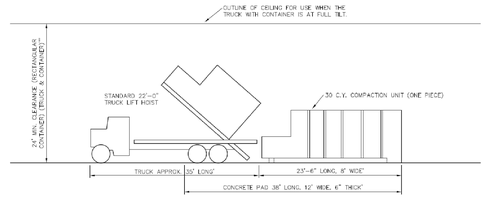
REVISED: FEBRUARY 2009

Screen Fence	City of Myrtle Beach Department of Public Works	
	Date: 8/8/00	Sheet: M-6



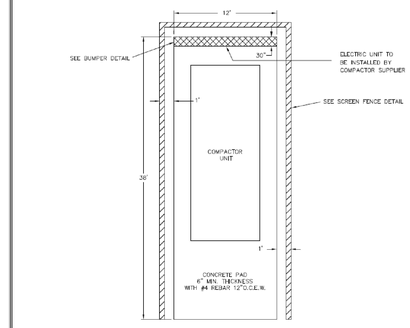
NOTE:
1. THE SECOND CONTAINER MAY BE USED FOR RECYCLING PURPOSES.
2. GREASE COLLECTORS ARE NOT TO BE STORED INSIDE SCREENED AREA.
3. FOR ADDITIONAL INFORMATION, CONTACT THE SOLID WASTE MANAGEMENT DIVISION AT 843-918-2161.

Double Dumpster Pad	City of Myrtle Beach Department of Public Works	
	Date: 08/15/16	Sheet: M-4



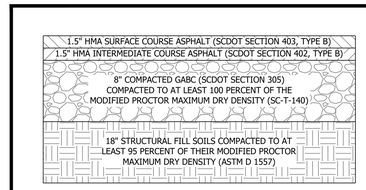
NOTE:
FOR ADDITIONAL INFORMATION CONTACT THE SOLID WASTE MANAGEMENT DIVISION AT 843-918-2161.

Compacting Unit	City of Myrtle Beach Department of Public Works	
	Date: 7/1/14	Sheet: M-3

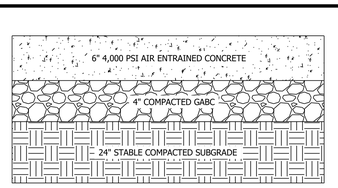


NOTES:
1. ELECTRIC SERVICE TO BE DETERMINED BY SIZE OF UNIT.
2. ELECTRIC UNIT TO BE INSTALLED ON TOP OF CONCRETE BUMPER.
3. A CLEARANCE OF 24" ABOVE FRONT OF DUMPSTER IS NECESSARY. NO OVERHEAD ELECTRIC LINES OR CABLE LINES ARE PERMITTED IN THIS AREA.
4. GREASE COLLECTORS SHALL NOT BE STORED INSIDE FENCED AREA.
5. FOR ADDITIONAL INFORMATION CONTACT THE SOLID WASTE MANAGEMENT DIVISION AT 843-918-2161.

Trash Compactor Site	City of Myrtle Beach Department of Public Works	
	Date: 7/1/14	Sheet: M-5

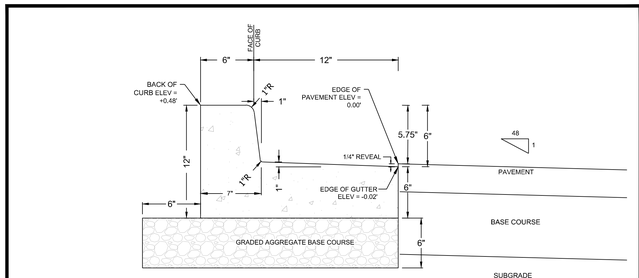


HEAVY DUTY HMA PAVEMENT SECTION		
R#	N.T.S.	07/XX/19
DEVELOPMENT RESOURCE GROUP, LLC		



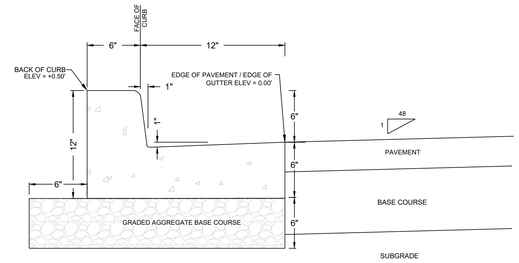
NOTE:
1. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI
2. AIR CONTENT SHALL BE 5%-7%
3. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL DETAILS
4. AS STATED IN THE SCDOT SECTION 305 SPECIFICATION, WE RECOMMEND THAT ALL NEW BASE COURSE SHOULD BE COMPACTED TO AT LEAST 100 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (SC T-140)

CONCRETE PAVEMENT SECTION		
C.R.B.	N.T.S.	08/27/23
DEVELOPMENT RESOURCE GROUP, LLC		



NOTES
1. CONCRETE CURB SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI.
2. CONTRACTOR SHALL PROVIDE THE ENGINEERING DEPARTMENT WITH CYLINDER TESTING DATA FROM AN INDEPENDENT TESTING LAB (AASHTO CERTIFIED) AND INSPECTOR CERTIFIED BY THE SCDOT TO INSPECT AND TEST CONCRETE INDICATING COMPRESSIVE STRENGTH OF CONCRETE TESTED. ONE SET OF THREE TEST CYLINDERS SHALL BE TAKEN EVERY 500 LINEAR FEET OF CURBING (250' OF ROADWAY WITH CURBING ON BOTH SIDES OF THE ROAD). ALL TESTS SHALL BE IDENTIFIED WITH STATION IDENTIFICATION NUMBERS. NO TEST CYLINDER SHALL ATTAIN LESS THAN 2500 PSI WHILE THE AVERAGE OF ALL TEST CYLINDERS SHALL BE AT LEAST 3000 PSI. WHERE ANY SAMPLE IS LESS THAN 2500 PSI OR THE AVERAGE IS LESS THAN 3000 PSI THAN THE MATERIAL ASSOCIATED WITH THE FAILED SAMPLE STATION NUMBER(S) SHALL BE REMOVED AND REINSTALLED. NO AT-GRADE UTILITIES SHALL BE INSTALLED IN THE CURBLINE.
3. CONCRETE CURB EXPANSION JOINT IN 10' (FEET) INTERVAL.
4. CONCRETE SHALL HAVE AN AIR CONTENT OF 5% (+/-2%).

18" EXPULSION CURB (VERTICAL FACE)		
C.R.B.	N.T.S.	03/13/24
DEVELOPMENT RESOURCE GROUP, LLC		



NOTES
1. CONCRETE CURB SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI.
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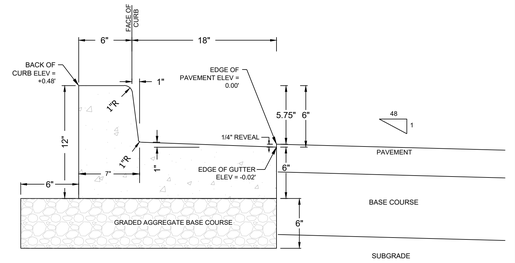
3. CONCRETE CURB EXPANSION JOINT IN 10' (FEET) INTERVAL.
4. CONCRETE SHALL HAVE AN AIR CONTENT OF 5% (+/-2%).

18" STANDARD CURB (VERTICAL FACE)		
C.R.B.	N.T.S.	03/13/24
DEVELOPMENT RESOURCE GROUP, LLC		



NOTES
1. CONCRETE CURB SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI.
2. CONTRACTOR SHALL PROVIDE THE ENGINEERING DEPARTMENT WITH CYLINDER TESTING DATA FROM AN INDEPENDENT TESTING LAB (AASHTO CERTIFIED) AND INSPECTOR CERTIFIED BY THE SCDOT TO INSPECT AND TEST CONCRETE INDICATING COMPRESSIVE STRENGTH OF CONCRETE TESTED. ONE SET OF THREE TEST CYLINDERS SHALL BE TAKEN EVERY 500 LINEAR FEET OF CURBING (250' OF ROADWAY WITH CURBING ON BOTH SIDES OF THE ROAD). ALL TESTS SHALL BE IDENTIFIED WITH STATION IDENTIFICATION NUMBERS. NO TEST CYLINDER SHALL ATTAIN LESS THAN 2500 PSI WHILE THE AVERAGE OF ALL TEST CYLINDERS SHALL BE AT LEAST 3000 PSI. WHERE ANY SAMPLE IS LESS THAN 2500 PSI OR THE AVERAGE IS LESS THAN 3000 PSI THAN THE MATERIAL ASSOCIATED WITH THE FAILED SAMPLE STATION NUMBER(S) SHALL BE REMOVED AND REINSTALLED. NO AT-GRADE UTILITIES SHALL BE INSTALLED IN THE CURBLINE.
3. CONCRETE CURB EXPANSION JOINT IN 10' (FEET) INTERVAL.
4. CONCRETE SHALL HAVE AN AIR CONTENT OF 5% (+/-2%).

24" EXPULSION CURB (VERTICAL FACE)		
C.R.B.	N.T.S.	03/13/24
DEVELOPMENT RESOURCE GROUP, LLC		

DEVELOPMENT RESOURCE GROUP, LLC
4703 OLEANDER DRIVE
MYRTLE BEACH, SC 29577
843-839-3350 | DRGPLLC.COM

DEVELOPMENT RESOURCE GROUP, LLC
No.6089
STATE OF AUTHORIZATION
SOUTH CAROLINA

NO. 40337
REGISTERED PROFESSIONAL ENGINEER
SOUTH CAROLINA
PHILIP T. HORNSBY

DETAILS 2

GRANDE DUNES SURGERY CENTER EXPANSION

PREPARED FOR:
DOYLE ARCHITECT/JTRE LLC.
315 MAIN STREET, SUITE 2B
CONWAY, SC, 29526
843-455-6879

PLANS FOR PERMITTING

JOB NO:	24162
SCALE:	CUSTOM
DRAFTED BY:	RLB
DESIGNED BY:	RLB
APPROVED BY:	PTH
DATE:	2025-01-06

SHEET NUMBER:

C8.1

DOYLE ARCHITECTURE, LLC
315 MAIN STREET, SUITE 2B
CONWAY, SC 29526
843.455.6879

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GRANDE DUNES SURGERY CENTER RENOVATION - PHASE III

Myrtle Beach, South Carolina

for: HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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REVISIONS:

TITLE:

SHEET:

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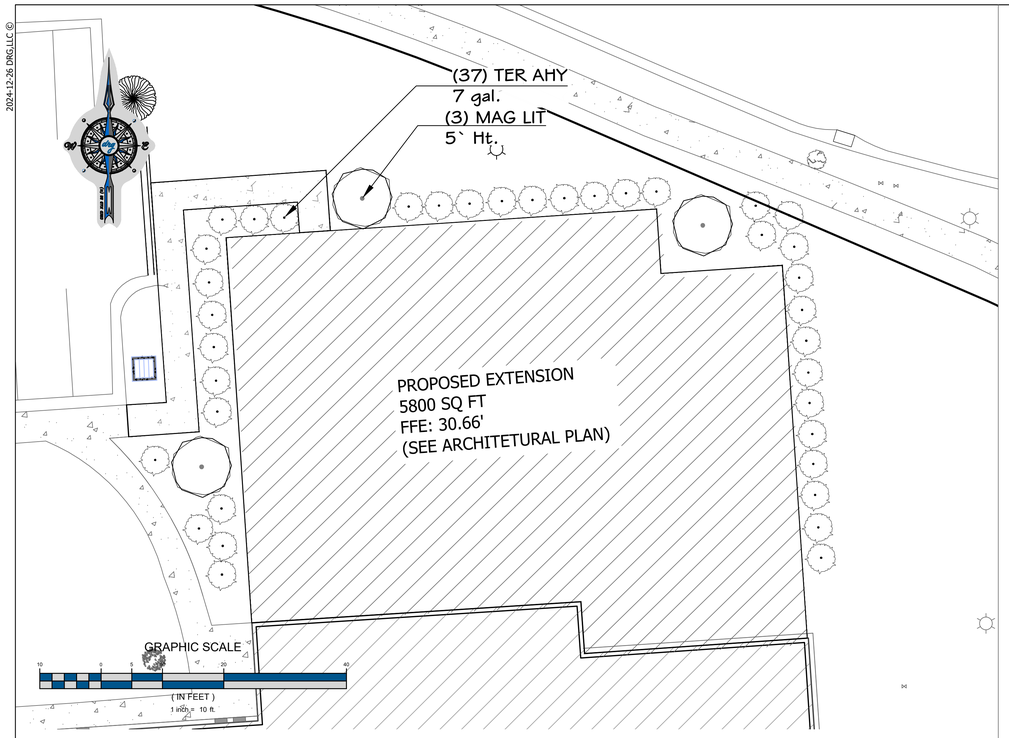


PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	QTY	DETAIL
TREES						
	LAG SUS	Lagerstroemia indica x fauriei 'Muskogee' / Muskogee Crape Myrtle Multi-Trunk	10` Ht.		4	
	MAG LIT	Magnolia grandiflora 'Little Gem' / Little Gem Dwarf Southern Magnolia	5` Ht.	Pot	6	
SHRUBS						
	ABE LIT	Abelia x grandiflora 'Little Richard' / Little Richard Glossy Abelia	7 gal.	Pot	20	
	CAM LJN	Camellia japonica 'Camille' / Camille Camellia	15 gal.	Pot	1	
	LOM LON	Lomandra longifolia / Mat Rush	2 gal.	Pot	26	
	TER AHY	Ternstroemia gymnanthera / Cleyera	7 gal.	Pot	43	
	VIB ODO	Viburnum odoratissimum / Sweet Viburnum	7 gal.	Pot	33	

LANDSCAPE NOTES:

1. REFERENCE SITE WORK AND SPECIFICATIONS FOR INFORMATION NEEDED FOR LANDSCAPE WORK.
2. CONTRACTOR TO VERIFY AND LOCATE ALL PROPOSED AND EXISTING STRUCTURES. NOTIFY LANDSCAPE ARCHITECT OR DESIGNATED REPRESENTATIVE FOR ANY LAYOUT DISCREPANCIES OR ANY CONDITION THAT WOULD PROHIBIT THE INSTALLATION AS SHOWN.
3. CONTRACTOR SHALL CALL 811 TO VERIFY AND LOCATE ANY AND ALL UTILITIES ON SITE PRIOR TO COMMENCING WORK. LANDSCAPE ARCHITECT SHOULD BE NOTIFIED OF ANY CONFLICTS.
4. QUANTITIES ON THESE PLANS ARE FOR REFERENCE ONLY.
5. THE SPACING OF PLANTS SHOULD BE AS INDICATED ON PLANS OR OTHERWISE NOTED. ALL TREES AND SHRUBS SHALL BE PLANTED PER DETAILS.
6. A MINIMUM OF 2% SLOPE SHALL BE PROVIDED AWAY FROM ALL STRUCTURES.
7. LANDSCAPE ISLANDS SHALL BE CROWNED, AND UNIFORM THROUGHOUT THE SITE.
8. ALL PLANTING AREAS SHALL BE GRADED SMOOTH TO ACHIEVE FINAL CONTOURS AS INDICATED ON PLAN WITH 3" OF TOPSOIL AND 3" OF COMPOST AND CONSISTENTLY BLENDED TO A DEPTH OF 9". ALL BEDS SHALL BE CROWNED TO ANTICIPATE SETTLEMENT AND ENSURE PROPER DRAINAGE.
9. PLANTING AREAS AND SOD TO BE SEPARATED BY "V-NOTCH" AS PER DETAILS.
10. MULCH SHALL BE INSTALLED AT 1/2" BELOW THE TOPS OF SIDEWALKS AND CURBING.
11. CONTAINER GROWN PLANT MATERIAL IS PREFERRED UNLESS INDICATED ON THE PLANT QUANTITIES. BALL AND BURLAP PLANT MATERIAL CAN BE SUBSTITUTED IF NEED BE AND IS APPROPRIATE TO THE SIZE AND QUALITY INDICATED ON THE PLANT MATERIAL LIST.
12. TREES SHALL BE PLANTED AT A MINIMUM OF 5' FROM ANY UTILITY LINE, SIDEWALK OR CURB. TREES SHALL ALSO BE 10' CLEAR FROM FIRE HYDRANTS.
13. 4" OF TRIPLE GROUND DARK HARDWOOD MULCH (2" SETTLED THICKNESS) SHALL BE PLACED IN ALL LANDSCAPE BEDS AFTER PLANTING IS COMPLETED.
14. CONTRACTOR TO PROVIDE UNIT PRICING OF LANDSCAPE MATERIALS AND BE RESPONSIBLE FOR OBTAINING ALL LANDSCAPE AND IRRIGATION PERMITS.
15. HEIGHT AND CALIPER SIZE SUPERSEDE GALLON SIZE AT THE TIME OF PLANTING.
16. ANY DISTURBED AREA NOT SPECIFICALLY NOTED TO BE SODDED SHALL BE HYDROSEEDED WITH AN APPROPRIATE SEASONAL MIX.

IRRIGATION:

1. IN THE ABSENCE OF AN IRRIGATION SYSTEM OR AREAS BEYOND THE COVERAGE LIMITS OF A PERMANENT IRRIGATION SYSTEM, CONTRACTOR SHALL WATER SOD TEMPORARILY, BY ANY MEANS AVAILABLE, TO DEVELOP ADEQUATE GROWTH. TURF SHALL BE IN 100% ESTABLISHMENT AT THE TIME OF ACCEPTANCE BY OWNER.
2. ALL SUPPLEMENTAL LANDSCAPING SHALL BE MECHANICALLY IRRIGATED.

MAINTENANCE REQUIREMENTS:

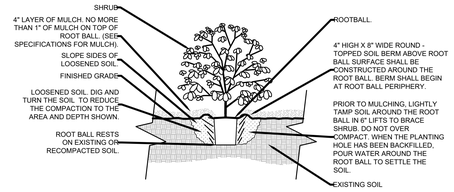
1. VEGETATION SHOULD BE INSPECTED REGULARLY TO ENSURE THAT PLANT MATERIAL IS ESTABLISHING PROPERLY AND REMAINS IN A HEALTHY GROWING CONDITION APPROPRIATE FOR THE SEASON. IF DAMAGED OR REMOVED, PLANTS MUST BE REPLACED BY A SIMILAR VARIETY AND SIZE.
2. PLANT MATERIAL SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING THE ACCEPTANCE BY OWNING. SHOULD PLANT MATERIAL FAIL DURING THAT WARRANTY PERIOD THE OWNER MAY REQUEST FOR THE ONE-TIME REPLACEMENT.
3. MOWING, TRIMMING, EDGING AND SUPERVISION OF WATER APPLICATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE OWNER OR OWNER'S REPRESENTATIVE ACCEPTS AND ASSUMES REGULAR MAINTENANCE.
4. ALL LANDSCAPE AREAS SHOULD BE CLEANED AND KEPT FREE OF TRASH, DEBRIS, WEEDS AND OTHER MATERIAL.

GENERAL TURF NOTES

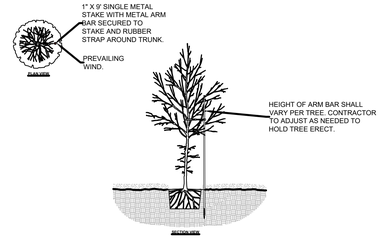
1. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TOP SOIL AT THE CORRECT GRADES. CONTRACTOR TO FINE GRADE AREAS TO REACH FINAL CONTOURS AS SPECIFIED PER CIVIL PLANS. ALL CONTOURS SHOULD ACHIEVE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND STRUCTURES. WATER SHOULD NOT BE ABLE TO POOL IN ANY AREAS UNLESS SPECIFIED OTHERWISE. EROSION CONTROL FABRIC TO BE USED WHERE NECESSARY TO PREVENT SOIL EROSION.
2. ANY LOSS OF TOPSOIL OR TURF DUE TO EROSION IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL IT IS 100% ESTABLISHED.
3. CONTRACTOR TO REMOVE ANY ROCKS 3/4" AND LARGER, STICKS AND DEBRIS PRIOR TO INSTALLATION OF TOPSOIL AND SOD.
4. FOUR (4") OF TOPSOIL SHALL BE APPLIED TO AREAS DISTURBED BY CONSTRUCTION RECEIVING SOD. IF TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL AS APPROVED BY THE OWNER OR OWNERS REPRESENTATIVE.
5. TOPSOIL SHALL BE FRIABLE, NATURAL LOAM, FREE OF ROCKS, WEEDS, BRUSH, CLAY LUMPS, ROOTS, TWIGS, LITTER AND ENVIRONMENTAL CONTAMINANTS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR SOD UNTIL ACCEPTANCE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: MOWING, WATERING, WEEDING, CULTIVATING, CLEANING AND REPLACING DEAD OR BARE AREAS TO KEEP PLANTS IN A VIGOROUS, HEALTHY CONDITION. SOD SHALL BE REPLACED IF NECESSARY.
7. CENTIPEDE / BERMUDA SOD SHALL BE PLACED ALONG ALL IMPERVIOUS EDGES, AT A MINIMUM. THIS SHALL INCLUDE CURBS, WALKS, INLETS, MANHOLES AND PLANTING BED AREAS. SOD SHALL COVER OTHER AREAS COMPLETELY AS INDICATED BY PLAN.
8. SOD SHALL BE STRONGLY ROOTED DROUGHT RESISTANT SOD, FRESHLY CUT, FREE OF WEEDS AND UNDESIRABLE NATIVE GRASS AND MACHINE CUT TO PAD THICKNESS OF 3/4" (+1/4"), EXCLUDING TOP GROWTH AND THATCH. PROVIDE ONLY SOD CAPABLE OF VIGOROUS GROWTH AND DEVELOPMENT WHEN PLANTED.
9. LAY SOD WITH TIGHTLY FITTING JOINTS, NO OVERLAPS WITH STAGGERED STRIPS TO OFFSET JOINTS.
10. SOD SHALL BE ROLLED TO CREATE A SMOOTH EVEN SURFACE. SOD SHOULD BE WATERED THOROUGHLY DURING INSTALLATION PROCESS.
11. SHOULD INSTALLATION OCCUR BETWEEN OCTOBER 1ST AND MARCH 1ST, SOD SHALL INCLUDE AN OVER-SEED OF ANNUAL RYE OR WINTER RYEGRASS AT A RATE OF FOUR POUNDS PER ONE THOUSAND SQUARE FEET FOR A GROWN-IN APPEARANCE.

LIGHTING NOTES

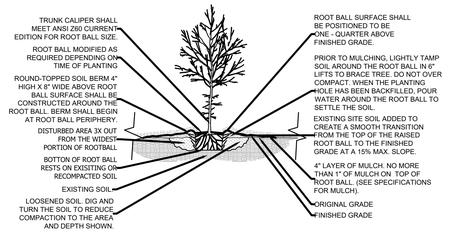
1. LIGHT FIXTURES SHALL BE FULL-CUTOFF AND MEET ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) CRITERIA.
2. LIGHTING SHALL BE AIMED STRAIGHT DOWN.
3. PARKING LOT LIGHTING SHALL HAVE LIGHTING NO GREATER THAN SIXTEEN FEET IN HEIGHT.
4. LIGHTING SHALL NOT PRODUCE ILLUMINATION THAT EXCEEDS 1 FOOTCANDLE BEYOND ANY RESIDENTIAL LINE



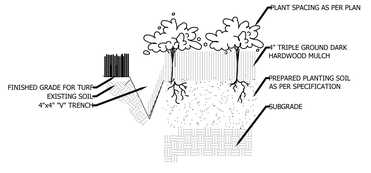
1. SHRUB PLANTING DETAIL



2. TREE STAKING DETIAL



3. TREE PLANTING DETAIL



4. BED EDGING DETAIL

DEVELOPMENT RESOURCE GROUP, LLC
4703 OLEANDER DRIVE
MYRTLE BEACH, SC 29577
843-839-3350 | DRGPLLC.COM

SOUTH CAROLINA — DEVELOPMENT RESOURCE GROUP, LLC No.6089 — CERTIFICATE OF AUTHORIZATION

BOARD OF SOUTH CAROLINA LANDSCAPE ARCHITECTURE — No. 1320 — REGISTERED LANDSCAPE ARCHITECT — SEAN H. HOELSCHER

LANDSCAPE PLAN

GRANDE DUNES SURGERY CENTER EXPANSION

PREPARED FOR:
DOYLE ARCHITECTURE LLC.
315 MAIN STREET SUITE 28
CONWAY, SC 29526
843-455-6879

JOB NO:	24162
SCALE:	1" = 10'
DRAFTED BY:	SCH
DESIGNED BY:	SCH
APPROVED BY:	SCH
DATE:	10/31/2024

SHEET NUMBER:

L1.0

DOYLE ARCHITECTURE, LLC
315 MAIN STREET, SUITE 28
CONWAY, SC 29526
843.455.6879

C:\Users\Drew\Google Drive\DOYLE ARCHITECTURE\Projects\24162 GRANDE DUNES A.S.C. RENOVATION - PHASE III\Revit\24162 L1.0 Landscape Plan.rvt 4/4/2025 10:46:47 AM

GRANDE DUNES A.S.C.
RENOVATION - PHASE III
Myrtle Beach, South Carolina
for: HCA South Atlantic

PROJECT NO: 22-11

DATE: January 6, 202
Construction Documen

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REVISIONS:

TITLE:

SHEET:

P:\24162 - DOYLE ARCHITECTURE - GRANDE DUNES SURGERY CENTER\DESIGN\DRAWINGS\LANDSCAPE\24162 LSCP.DWG

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	QTY	DETAIL
TREES						
	LAG SUS	Lagerstroemia indica x fauriei 'Muskogee' / Muskogee Crape Myrtle Multi-Trunk	10` Ht.		4	
	MAG LIT	Magnolia grandiflora 'Little Gem' / Little Gem Dwarf Southern Magnolia	5` Ht.	Pot	6	
SHRUBS						
	ABE LIT	Abelia x grandiflora 'Little Richard' / Little Richard Glossy Abelia	7 gal.	Pot	20	
	CAM LJN	Camellia japonica 'Camille' / Camille Camellia	15 gal.	Pot	1	
	LOM LON	Lomandra longifolia / Mat Rush	2 gal.	Pot	26	
	TER AHY	Ternstroemia gymnanthera / Cleyera	7 gal.	Pot	43	
	VIB ODO	Viburnum odoratissimum / Sweet Viburnum	7 gal.	Pot	33	

LANDSCAPE NOTES:

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6. A MINIMUM OF 2% SLOPE SHALL BE PROVIDED AWAY FROM ALL STRUCTURES.
7. LANDSCAPE ISLANDS SHALL BE CROWNED, AND UNIFORM THROUGHOUT THE SITE.
8. ALL PLANTING AREAS SHALL BE GRADED SMOOTH TO ACHIEVE FINAL CONTOURS AS INDICATED ON PLAN WITH 3" OF TOPSOIL AND 3" OF COMPOST AND CONSISTENTLY BLENDED TO A DEPTH OF 9". ALL BEDS SHALL BE CROWNED TO ANTICIPATE SETTLEMENT AND ENSURE PROPER DRAINAGE.
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10. MULCH SHALL BE INSTALLED AT 1/2" BELOW THE TOPS OF SIDEWALKS AND CURBING.
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12. TREES SHALL BE PLANTED AT A MINIMUM OF 5' FROM ANY UTILITY LINE, SIDEWALK OR CURB. TREES SHALL ALSO BE 10' CLEAR FROM FIRE HYDRANTS.
13. 4" OF TRIPLE GROUND DARK HARDWOOD MULCH (2" SETTLED THICKNESS) SHALL BE PLACED IN ALL LANDSCAPE BEDS AFTER PLANTING IS COMPLETED.
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IRRIGATION:

1. IN THE ABSENCE OF AN IRRIGATION SYSTEM OR AREAS BEYOND THE COVERAGE LIMITS OF A PERMANENT IRRIGATION SYSTEM, CONTRACTOR SHALL WATER SOD TEMPORARILY, BY ANY MEANS AVAILABLE, TO DEVELOP ADEQUATE GROWTH. TURF SHALL BE IN 100% ESTABLISHMENT AT THE TIME OF ACCEPTANCE BY OWNER.
2. ALL SUPPLEMENTAL LANDSCAPING SHALL BE MECHANICALLY IRRIGATED.

MAINTENANCE REQUIREMENTS:

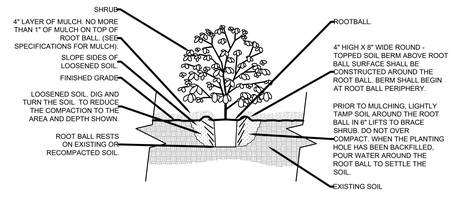
1. VEGETATION SHOULD BE INSPECTED REGULARLY TO ENSURE THAT PLANT MATERIAL IS ESTABLISHING PROPERLY AND REMAINS IN A HEALTHY GROWING CONDITION APPROPRIATE FOR THE SEASON. IF DAMAGED OR REMOVED, PLANTS MUST BE REPLACED BY A SIMILAR VARIETY AND SIZE.
2. PLANT MATERIAL SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING THE ACCEPTANCE BY OWNING. SHOULD PLANT MATERIAL FAIL DURING THAT WARRANTY PERIOD THE OWNER MAY REQUEST FOR THE ONE-TIME REPLACEMENT.
3. MOWING, TRIMMING, EDGING AND SUPERVISION OF WATER APPLICATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE OWNER OR OWNER'S REPRESENTATIVE ACCEPTS AND ASSUMES REGULAR MAINTENANCE.
4. ALL LANDSCAPE AREAS SHOULD BE CLEANED AND KEPT FREE OF TRASH, DEBRIS, WEEDS AND OTHER MATERIAL.

GENERAL TURF NOTES

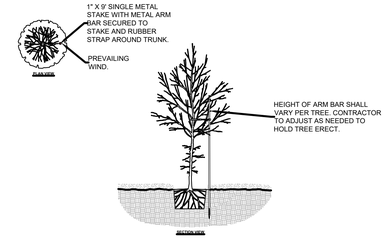
1. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TOP SOIL AT THE CORRECT GRADES. CONTRACTOR TO FINE GRADE AREAS TO REACH FINAL CONTOURS AS SPECIFIED PER CIVIL PLANS. ALL CONTOURS SHOULD ACHIEVE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND STRUCTURES. WATER SHOULD NOT BE ABLE TO POOL IN ANY AREAS UNLESS SPECIFIED OTHERWISE. EROSION CONTROL FABRIC TO BE USED WHERE NECESSARY TO PREVENT SOIL EROSION.
2. ANY LOSS OF TOPSOIL OR TURF DUE TO EROSION IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL IT IS 100% ESTABLISHED.
3. CONTRACTOR TO REMOVE ANY ROCKS 3/4" AND LARGER, STICKS AND DEBRIS PRIOR TO INSTALLATION OF TOPSOIL AND SOD.
4. FOUR (4") OF TOPSOIL SHALL BE APPLIED TO AREAS DISTURBED BY CONSTRUCTION RECEIVING SOD. IF TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL AS APPROVED BY THE OWNER OR OWNERS REPRESENTATIVE.
5. TOPSOIL SHALL BE FRIABLE, NATURAL LOAM, FREE OF ROCKS, WEEDS, BRUSH, CLAY LUMPS, ROOTS, TWIGS, LITTER AND ENVIRONMENTAL CONTAMINANTS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR SOD UNTIL ACCEPTANCE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: MOWING, WATERING, WEEDING, CULTIVATING, CLEANING AND REPLACING DEAD OR BARE AREAS TO KEEP PLANTS IN A VIGOROUS, HEALTHY CONDITION. SOD SHALL BE REPLACED IF NECESSARY.
7. CENTIPEDE / BERMUDA SOD SHALL BE PLACED ALONG ALL IMPERVIOUS EDGES, AT A MINIMUM. THIS SHALL INCLUDE CURBS, WALKS, INLETS, MANHOLES AND PLANTING BED AREAS. SOD SHALL COVER OTHER AREAS COMPLETELY AS INDICATED BY PLAN.
8. SOD SHALL BE STRONGLY ROOTED DROUGHT RESISTANT SOD, FRESHLY CUT, FREE OF WEEDS AND UNDESIRABLE NATIVE GRASS AND MACHINE CUT TO PAD THICKNESS OF 3/4" (+1/4"), EXCLUDING TOP GROWTH AND THATCH. PROVIDE ONLY SOD CAPABLE OF VIGOROUS GROWTH AND DEVELOPMENT WHEN PLANTED.
9. LAY SOD WITH TIGHTLY FITTING JOINTS, NO OVERLAPS WITH STAGGERED STRIPS TO OFFSET JOINTS.
10. SOD SHALL BE ROLLED TO CREATE A SMOOTH EVEN SURFACE. SOD SHOULD BE WATERED THOROUGHLY DURING INSTALLATION PROCESS.
11. SHOULD INSTALLATION OCCUR BETWEEN OCTOBER 1ST AND MARCH 1ST, SOD SHALL INCLUDE AN OVER-SEED OF ANNUAL RYE OR WINTER RYEGRASS AT A RATE OF FOUR POUNDS PER ONE THOUSAND SQUARE FEET FOR A GROWN-IN APPEARANCE.

LIGHTING NOTES

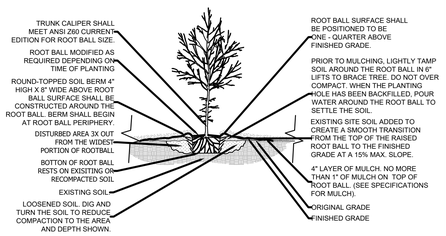
1. LIGHT FIXTURES SHALL BE FULL-CUTOFF AND MEET ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) CRITERIA.
2. LIGHTING SHALL BE AIMED STRAIGHT DOWN.
3. PARKING LOT LIGHTING SHALL HAVE LIGHTING NO GREATER THAN SIXTEEN FEET IN HEIGHT.
4. LIGHTING SHALL NOT PRODUCE ILLUMINATION THAT EXCEEDS 1 FOOTCANDLE BEYOND ANY RESIDENTIAL LINE



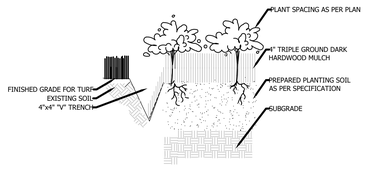
1. SHRUB PLANTING DETAIL



2. TREE STAKING DETIAL



3. TREE PLANTING DETAIL



4. BED EDGING DETAIL

DEVELOPMENT RESOURCE GROUP, LLC
4703 OLEANDER DRIVE
MYRTLE BEACH, SC 29577
843-839-3350 | DRGPLLC.COM

SOUTH CAROLINA BOARD OF LANDSCAPE ARCHITECTURE — DEVELOPMENT RESOURCE GROUP, LLC No.6089 — CERTIFICATE OF AUTHORIZATION

REGISTERED LANDSCAPE ARCHITECT — No. 1320 — STATE OF SOUTH CAROLINA — BOARD OF LANDSCAPE ARCHITECTURE — SEAL — SCOTT H. HOLBACHER

LANDSCAPE PLAN 2

GRANDE DUNES SURGERY CENTER EXPANSION

PREPARED FOR:
DOYLE ARCHITECTURE LLC.
315 MAIN STREET SUITE 28
CONWAY, SC 29526
843-455-6879

JOB NO:	24162
SCALE:	1"=10'
DRAFTED BY:	SCH
DESIGNED BY:	SCH
APPROVED BY:	SCH
DATE:	10/31/2024

SHEET NUMBER:

L2.0

2024-12-26 DRG,LLC ©

P:\24162 - DOYLE ARCHITECTURE - GRANDE DUNES SURGERY CENTER\DESIGN\DRAWINGS\LANDSCAPE\24162 LSCP.DWG

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GRANDE DUNES A.S.C.
RENOVATION - PHASE III
Myrtle Beach, South Ca
for: HCA South Atlantic

PROJECT NO: 22-11

DATE: January 6, 202
Construction Documen

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LIMITS OF WORK

LIMITS OF WORK

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SEE SHEET AD-120 FOR KEYNOTES LEGEND

H1 AD200

H1 FIRST FLOOR DEMOLITION PLAN

AD-110 SCALE: 1/4" = 1'-0"

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STATE OF SOUTH CAROLINA — PAUL G. DOYLE — 17389 — REGISTERED ARCHITECT

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Myrtle Beach, South Carolina

for: HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
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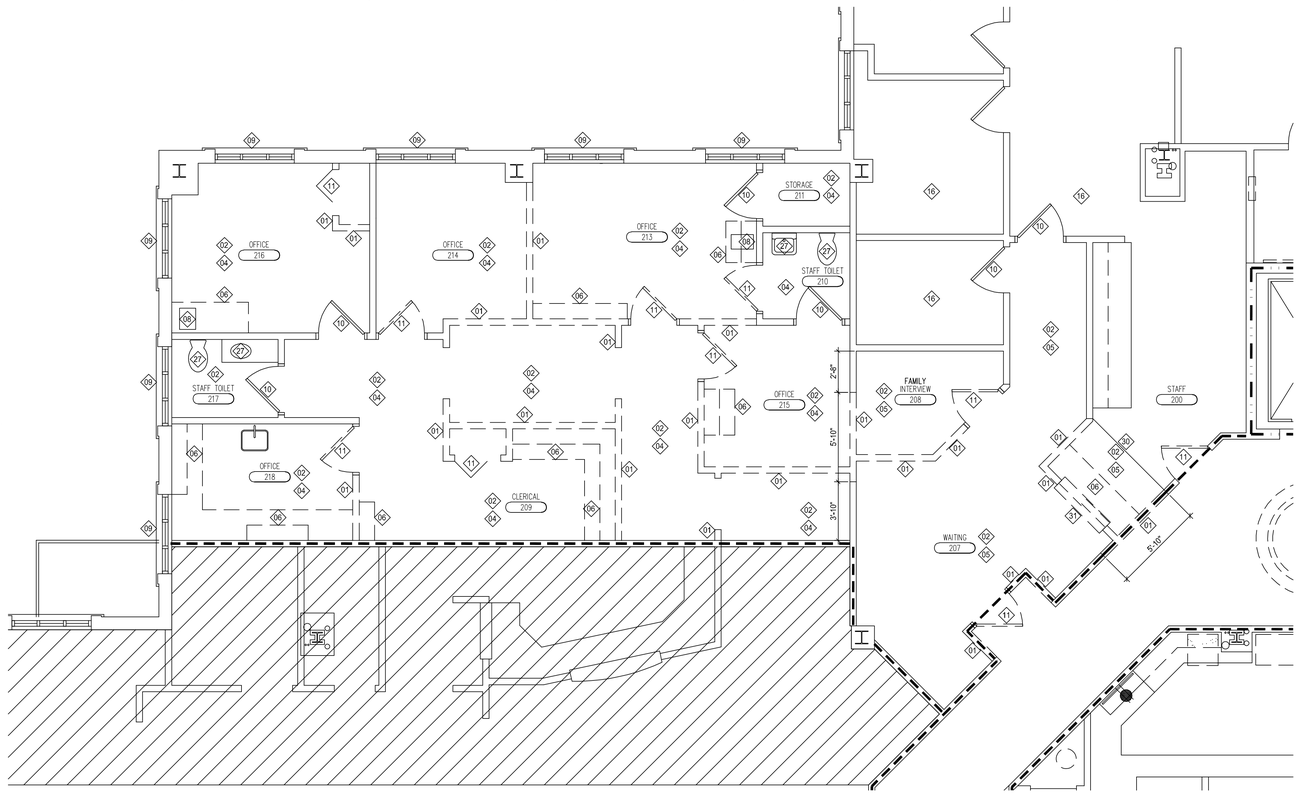
FIRST FLOOR DEMOLITION PLAN

SHEET:

AD110



D1 NEW SECOND FLOOR DEMOLITION PLAN

AD-120 SCALE: 1/4" = 1'-0"

DEMOLITION KEYNOTES

01 EXISTING FRAMED WALL TO BE REMOVED.

02 EXISTING ACOUSTICAL CEILING TILE, GRID, & ACCESSORIES TO BE REMOVED.

03 EXISTING GYP BOARD CEILING AND/OR SOFFIT AND ALL ASSOCIATED FRAMING TO BE REMOVED.

04 EXISTING RESILIENT FLOORING AND RESILIENT BASE TO BE REMOVED. PREP EXISTING CONC SLAB FOR NEW FLOORING AND PREP EXISTING WALLS FOR NEW BASE.

05 EXISTING CARPETING AND RESILIENT BASE TO BE REMOVED. PREP EXISTING CONC SLAB FOR NEW FLOORING AND PREP EXISTING WALLS FOR NEW BASE.

06 EXISTING CASEWORK AND ALL ASSOCIATED UTILITIES TO BE REMOVED.

07 EXISTING CASEWORK TO REMAIN.

08 EXISTING PLUMBING FIXTURE AND ALL RELATED TOILET ACCESSORIES TO BE REMOVED... SEE PLUMBING DRAWINGS

09 EXISTING EXTERIOR WINDOW TO REMAIN.

10 EXISTING DOOR, HARDWARE, & HM FRAME TO REMAIN.

11 EXISTING DOOR, HARDWARE, & HM FRAME TO BE REMOVED.

12 EXISTING LOCKERS AND BUILT-IN BENCH TO BE REMOVED.

13 EXISTING TOILET PARTITIONS TO BE REMOVED.

14 EXISTING WALL-MOUNTED COAT RACK TO BE REMOVED.

15 EXISTING WALL TO TO BE REMOVED TO ALLOW INSTALLATION OF NEW DOOR AND FRAME. SEE NEW FLOOR PLANS.

16 NO WORK IN THIS AREA.

17 EXISTING EXTERIOR WALL TO BE REMOVED TO ALLOW CONNECTION TO ADDITION. SEE DEMOLITION EXTERIOR ELEVATIONS & DEMOLITION WALL SECTIONS.

18 EXISTING WINDOW AND ALL ASSOCIATED ANCHORS , LINTELS, AND FLASHING TO BE REMOVED.

19 EXISTING BRICK VENEER/EIFS, BUILDING WRAP, FLASHINGS, AND SHEATHING TO BE REMOVED TO FACE OF EXISTING METAL STUDS... SEE DEMOLITION EXTERIOR ELEVATIONS AND DEMOLITION WALL SECTIONS.

20 EXISTING SMOKE-RESISTANT PARTITION TO BE CONVERTED TO A NON-RATED PARTITION. REMOVE ALL STENCILING.

21 EXISTING 1-HOUR FIRE PARTITION TO BE CONVERTED TO A NON-RATED PARTITION. REMOVE ALL STENCILING.

22 EXISTING 1-HOUR FIRE PARTITION TO REMAIN.

23 EXISTING 2-HOUR FIRE PARTITION TO REMAIN.

24 EXISTING SMOKE BARRIER TO REMAIN.

25 EXISTING GYPSUM BOARD TO BE REMOVED TO HEIGHT OF NEW CEILING... SEE REFLECTED CEILING PLAN

26 EXISTING FLOOR SINK TO REMAIN.

27 EXISTING PLUMBING FIXTURE AND ASSOCIATED TOILET ACCESSORIES TO REMAIN.

28 EXISTING WINDOW AND WALL BELOW TO BE REMOVED TO ALLOW INSTALLATION OF NEW EXTERIOR DOOR. SEE NEW FLOOR PLAN.

29 EXISTING CEILING-MOUNTED PROCEDURE LIGHT AND ALL ASSOCIATED SUPPORT FRAMING TO BE REMOVED.

30 EXISTING ACOUSTICAL CEILING ASSEMBLY TO REMAIN.

31 EXISTING PASS-THRU WINDOW TO BE REMOVED.

32 EXISTING CONC WALK TO BE REMOVED TO ALLOW INSTALLATION OF NEW COLUMN... SEE STRUCTURAL

33 EXISTING CONC WALK TO REMAIN

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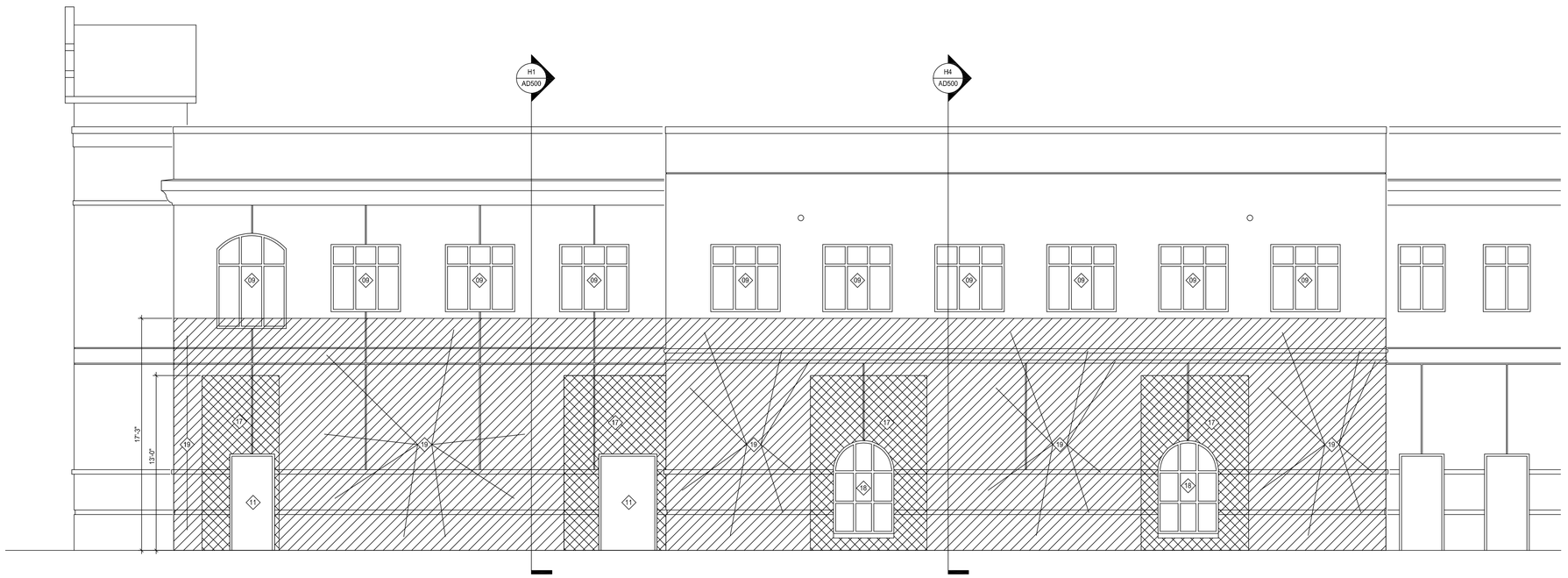
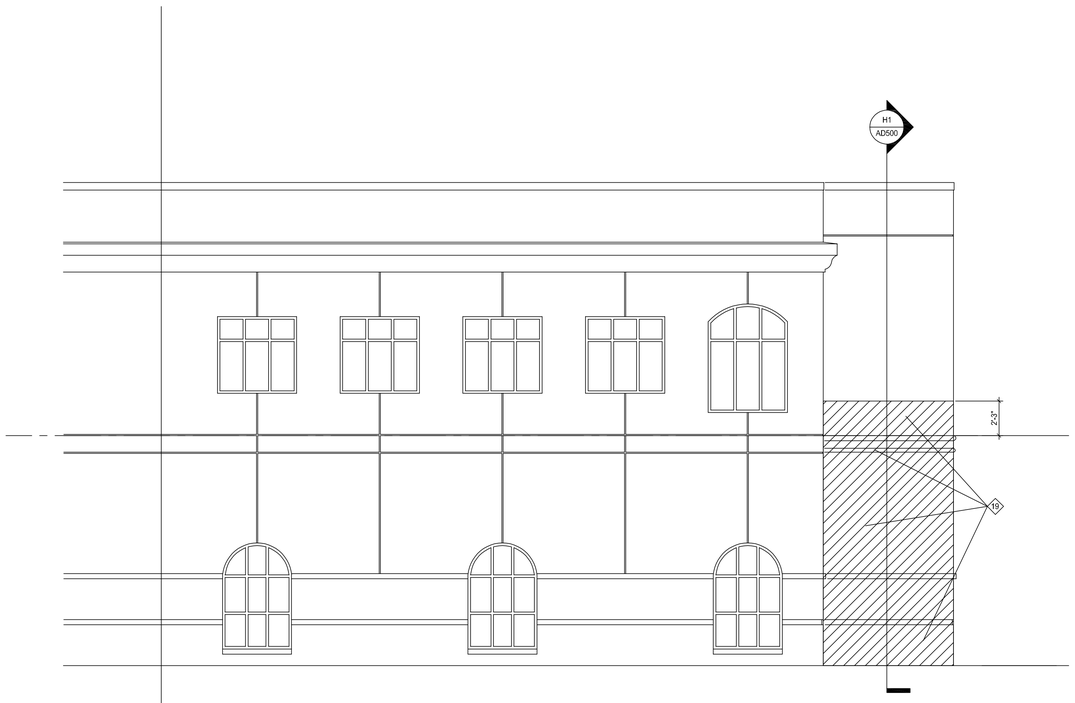
SECOND FLOOR DEMOLITION PLAN

SHEET:
AD120



D1 DEMOLITION ELEVATION

AD-200 SCALE: 1/4" = 1'-0"



H1 DEMOLITION ELEVATION

AD-200 SCALE: 1/4" = 1'-0"

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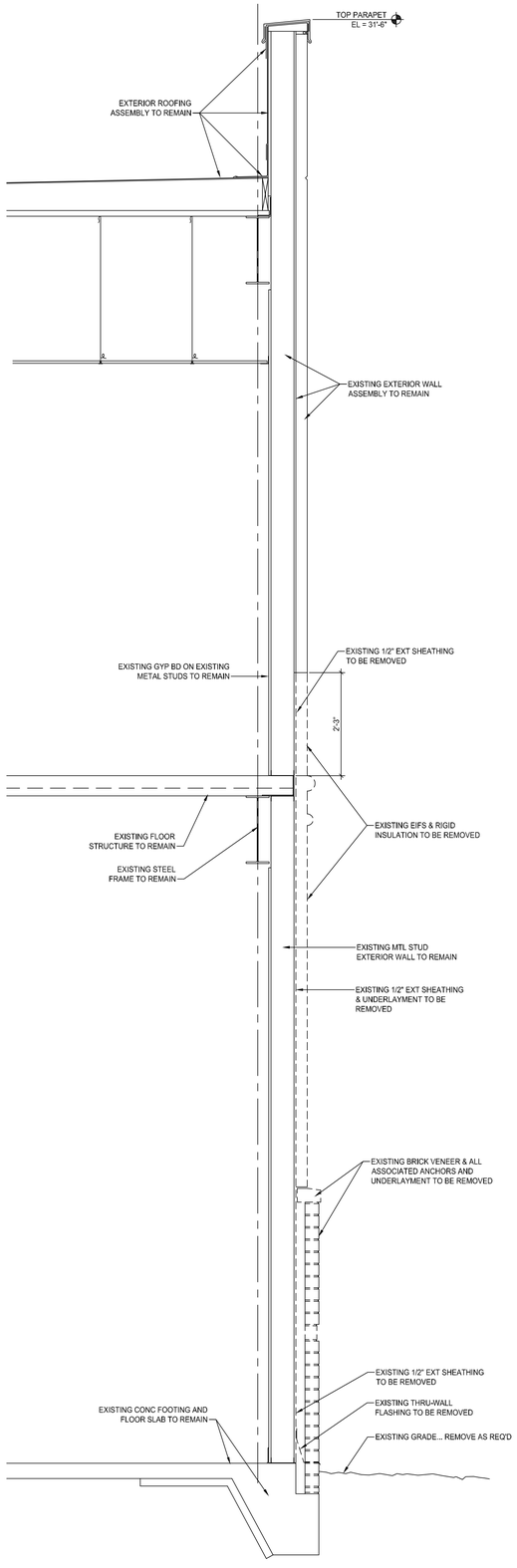
DEMOLITION ELEVATIONS

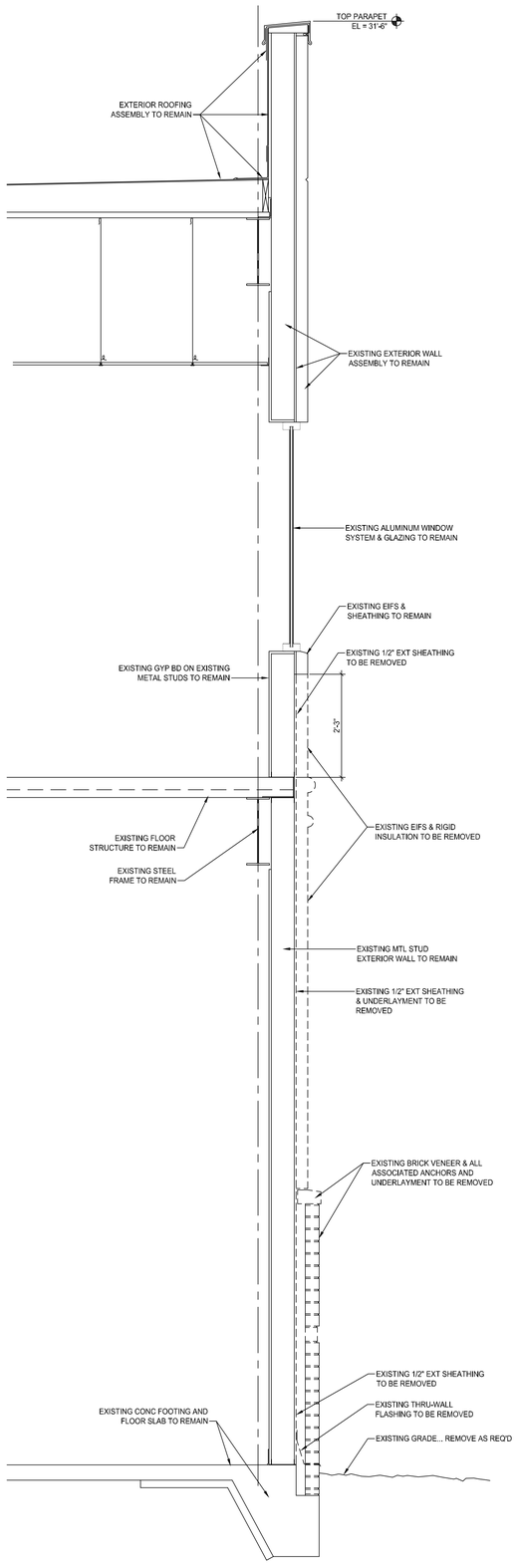
SHEET:

AD200



H1 DEMOLITION WALL SECTION

AD-500 SCALE: 3/4" = 1'-0"



H4 DEMOLITION WALL SECTION

AD-500 SCALE: 3/4" = 1'-0"

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DEMOLITION WALL SECTIONS

SHEET:

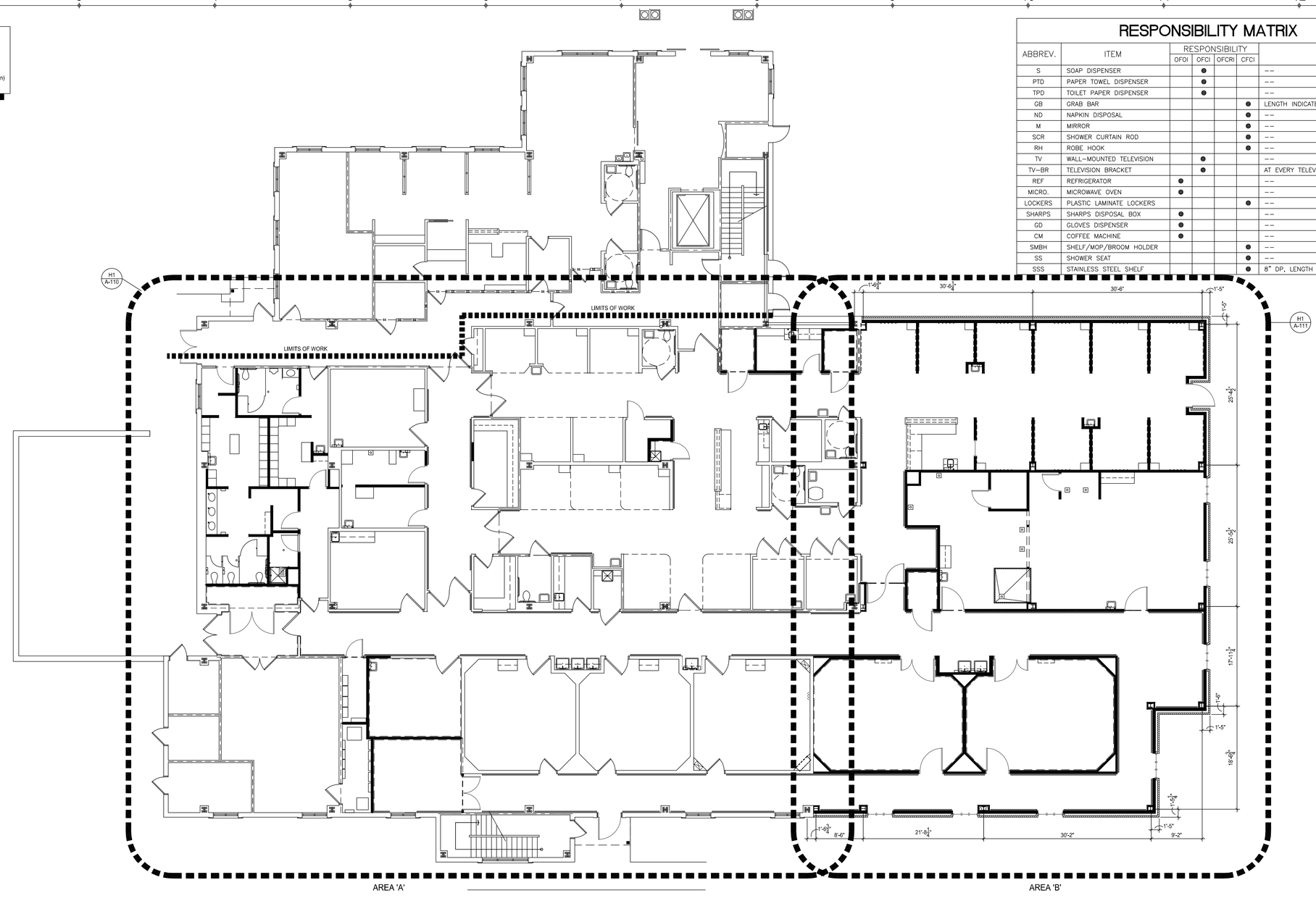
AD500

WALL LEGEND

- 1-HOUR FIRE BARRIER
- 1-HOUR SMOKE BARRIER
- 2-HOUR FIRE BARRIER (existing to remain)

RESPONSIBILITY MATRIX

ABBREV.	ITEM	RESPONSIBILITY OFOI	OFCI	OFCRI	CFCI	NOTES
S	SOAP DISPENSER		●			--
PTD	PAPER TOWEL DISPENSER		●			--
TPD	TOILET PAPER DISPENSER		●			--
GB	GRAB BAR				●	LENGTH INDICATED ON DRAWINGS
ND	NAPKIN DISPOSAL				●	--
M	MIRROR				●	--
SCR	SHOWER CURTAIN ROD				●	--
RH	ROBE HOOK				●	--
TV	WALL-MOUNTED TELEVISION		●			--
TV-BR	TELEVISION BRACKET		●			AT EVERY TELEVISION LOCATION
REF	REFRIGERATOR	●				--
MICRO.	MICROWAVE OVEN	●				--
LOCKERS	PLASTIC LAMINATE LOCKERS				●	--
SHARPS	SHARPS DISPOSAL BOX	●				--
GD	GLOVES DISPENSER	●				--
CM	COFFEE MACHINE	●				--
SMBH	SHELF/MOP/BROOM HOLDER				●	--
SS	SHOWER SEAT				●	--
SSS	STAINLESS STEEL SHELF				●	8" DP, LENGTH INDICATED ON DRAWINGS



F1 OVERALL FIRST FLOOR PLAN

A100 SCALE: 1/8" = 1'-0"

INTERIOR FINISH LEGEND

		MFR.	SERIES	COLOR	MODEL	SIZE	FINISH	NOTES
WALLS	PT-1	SHERWIN WILLIAMS	PRE-CAT EPOXY	AESTHETIC WHITE; SW7035	–	–	EGGSHELL	ALL FIRST FLOOR WALLS TO BE PT-1 U.N.O.
	PT-2	SHERWIN WILLIAMS	PRE-CAT EPOXY	COLONNADE GRAY; SW7641	–	–	EGGSHELL	ACCENT PAINT
	PT-3	SHERWIN WILLIAMS	PRO-MAR 200	AESTHETIC WHITE; SW7035	–	–	EGGSHELL	ALL SECOND FLOOR WALLS TO BE PT-3 U.N.O.
	PT-4	SHERWIN WILLIAMS	PRO-MAR 200	POOLHOUSE; SW7603	–	–	EGGSHELL	ACCENT PAINT
	CT-1	DALTILE	ARTICULO AR06	EDITORIAL WHITE	–	12"x24"	POLISHED	EPOXY GROUT; LANDSCAPE ORIENTATION; STACK BOND
	CT-2	PLATFORM SURFACES	MLW MAYFAIR	WHITE	–	2.5"x5"	GLOSS	SCRUB STATIONS; EPOXY GROUT; LANDSCAPE ORIENTATION; STACK BOND
FLOORS	LVT-1	MANNINGTON	SPACIA ABSTRACT	SOFTLINE PEBBLE SS53600	–	18"x18"	–	SECOND FLOOR; SEE FLOOR PLAN FOR DIRECTION OF FLOORING
	LVT-2	MANNINGTON	SPACIA STONE	OCEAN TRAVERTINE SS53600	–	18"x18"	–	FIRST FLOOR
	LVT-3	MANNINGTON	SPACIA STONE	CERAMIC LIGHT SSSS1565	–	18"x18"	–	FIRST FLOOR; ACCENT TILE AT NURSE STATIONS
	SV-1	MANNINGTON	BIOSPEC ARMOR	HUSH OR111	–	–	–	STANDARD ADHESIVE; 4" INTEGRAL COVE BASE W/ STAINLESS STEEL CAP TRIM
	SV-2	MANNINGTON	BIOSPEC ARMOR	NORTHSTAR OR106	–	–	–	INSTALL WITH EPOXY ADHESIVE
	CPT-1	SHAW	SUBTEXT 5T409	LISTEN 05100	–	9"x36"	–	SECOND FLOOR OFFICES; USE WITH RB-1
BASE	RB-1	MANNINGTON	BURKEBASE	CLAY 527	TYPE TP	4"	–	ALL AREAS OF NEW LVT & NEW CPT TO RECEIVE RB-1 U.N.O.
CEILING	ACT-1	ARMSTRONG	ULTIMA HEALTHZONE	WHITE	1445	24"x24"x7/8"	–	ALL SUSPENDED CEILINGS TO BE ACT-1 U.N.O.; PRELUDE XL 15/16" GRID
	ACT-2	ARMSTRONG	ULTIMA HEALTHZONE	WHITE	1445	24"x24"x7/8"	–	CLEAN ROOM 15/16" STEEL GRID; GASKETED
	PT-5	SHERWIN WILLIAMS	PRO-MAR 200	WHITE	–	–	FLAT	ALL SECOND FLOOR SOFFITS U.N.O.
	PT-6	SHERWIN WILLIAMS	PRE-CAT EPOXY	WHITE	–	–	FLAT	ALL FIRST FLOOR CEILINGS AND SOFFITS

NOTE 1: ALL HM DOOR FRAMES TO BE PAINTED THE SAME COLOR AS THE ADJACENT WALL. DOOR FRAMES TO BE SEMI-GLOSS FINISH.

INTERIOR FINISH LEGEND

		MFR.	SERIES	COLOR	MODEL	SIZE	FINISH	NOTES
CASEWK.	PL-1	WILSONART	–	PALISADES OAK 7987-38	–	–	–	CASEWORK; LOCKERS; TOILET PARTITIONS
	PL-2	WILSONART	–	DOVE GREY D92-60	–	–	–	NURSE STATION CASEWORK ACCENT TRIM
	SS-1	WILSONART	–	YUKON RIVERSTONE 9196RS	–	–	–	COUNTERTOPS
	SS-2	WILSONART	–	GOLDEN SAIL 9234SS	–	–	–	AT NURSE STATIONS
	SSTL	STAINLESS STEEL	–	–	–	–	–	ALL COUNTERTOPS IN SPD & SCOPE PROCESSING
MISC.	ICTS-1	FORBO	–	OYSTER SHELL 2206	–	1/4" THK	–	INTEGRAL COLOR TACK SURFACE
	G-5	–	–	–	–	1/4" TEMP.	–	CLEAR GLASS; SEE SECTION 08 8000 GLAZING
	CG-1	INPRO	160 HIGH IMPACT	CLAM SHELL 0154	–	–	–	48" LENGTH; @ PT-1 WALLS
	CG-2	INPRO	160 HIGH IMPACT	TAUPE 0113	–	–	–	48" LENGTH; @ PT-2 WALLS
	PWC-1	INPRO	PALLADIUM	CLAM SHELL 0154	–	–	–	PROTECTIVE WALL COVERING PANELS; 0.060" THICK; TO 2'-4" AFF
	PWC-2	INPRO	PALLADIUM	CLAM SHELL 0154	–	–	–	PROTECTIVE WALL COVERING PANELS; 0.060" THICK; TO 6'-8" AFF
	CR-1	INPRO	1600 SERIES	CLAM SHELL 0154	–	–	–	CRASH RAIL; BOTTOM OF CRASH RAIL @ 2'-4" AFF
	BR-1	INPRO	200 SERIES	CLAM SHELL 0154	–	–	–	VERTICAL BUMPER RAILS AT PREP/RECOVERY BAYS; SEE ELEVATIONS

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STATE OF SOUTH CAROLINA — PAUL G. DOYLE — MYRTLE BEACH, SC — 17389 — REGISTERED ARCHITECT

GRANDE DUNES A.S.C. RENOVATION - PHASE III

Myrtle Beach, South Carolina

for: HCA South Atlantic

PROJECT NO: 22-113

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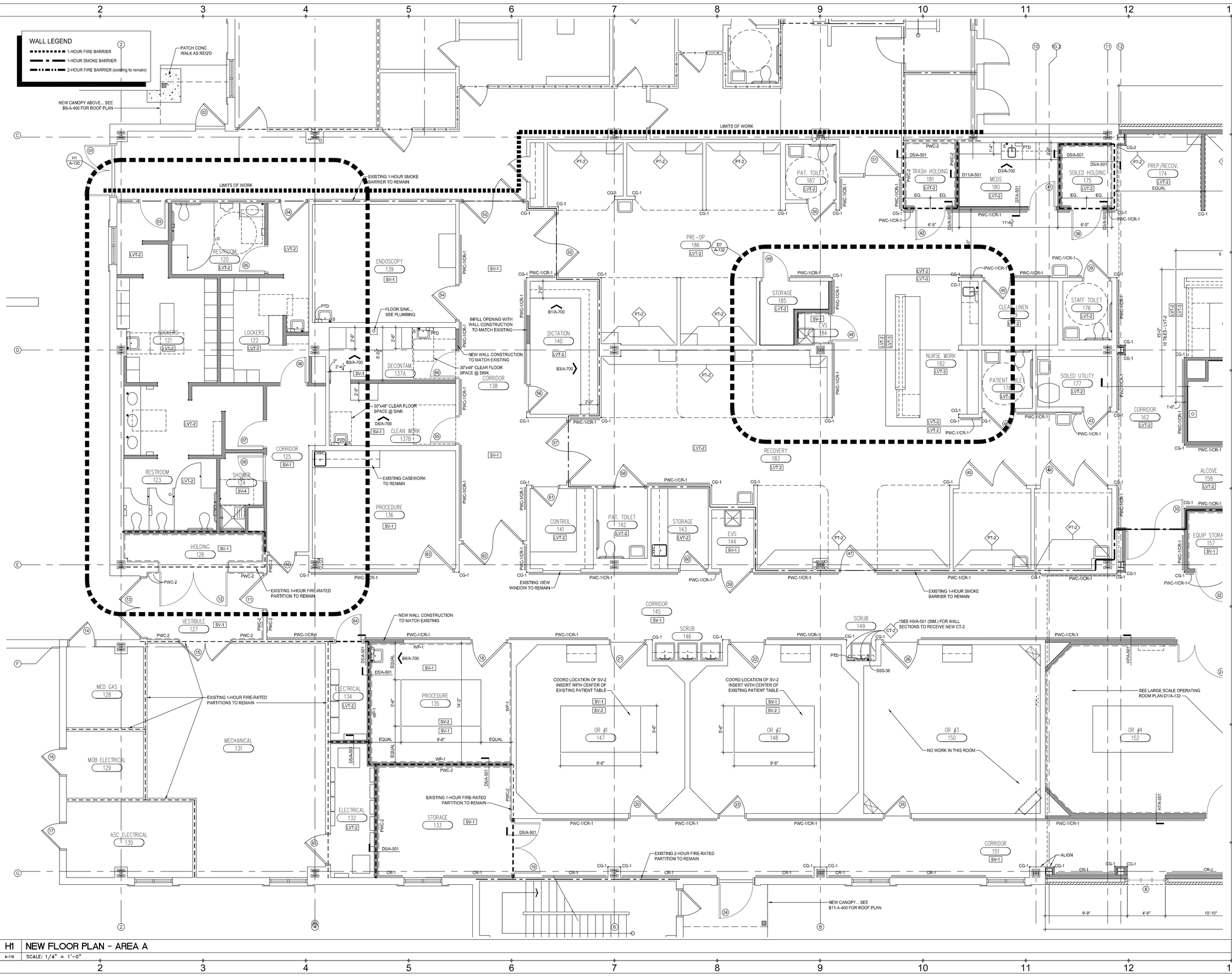
OVERALL FIRST FLOOR PLAN

SHEET:

A-100



H1 | NEW FLOOR PLAN - AREA A

A-110 | SCALE: 1/4" = 1'-0"

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STATE OF SOUTH CAROLINA — PAUL G. DOYLE — MYRTLE BEACH, SC — 7389 — REGISTERED ARCHITECT

GRANDE DUNES A.S.C. RENOVATION - PHASE III

Myrtle Beach, South Carolina

for:

HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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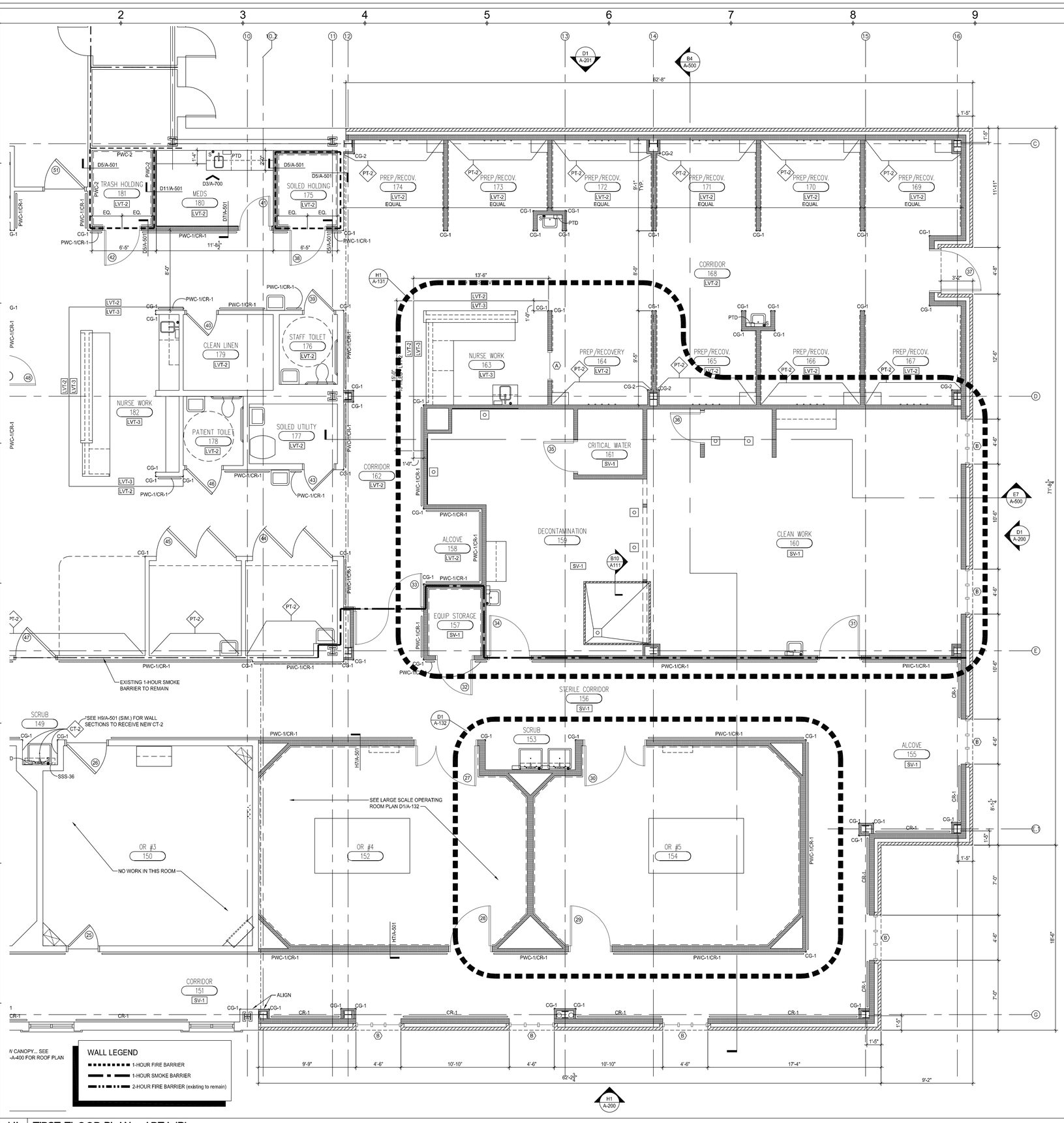
REVISIONS:

TITLE:

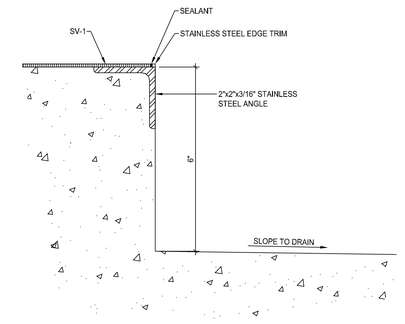
FIRST FLOOR PLAN - AREA 'A'

SHEET:

A-110



H1 FIRST FLOOR PLAN - AREA 'B'
A-111 SCALE: 1/4" = 1'-0"



B10 CART WASHER PIT EDGE DETAIL
A-111 SCALE: 6" = 1'-0"

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RENOVATION - PHASE III
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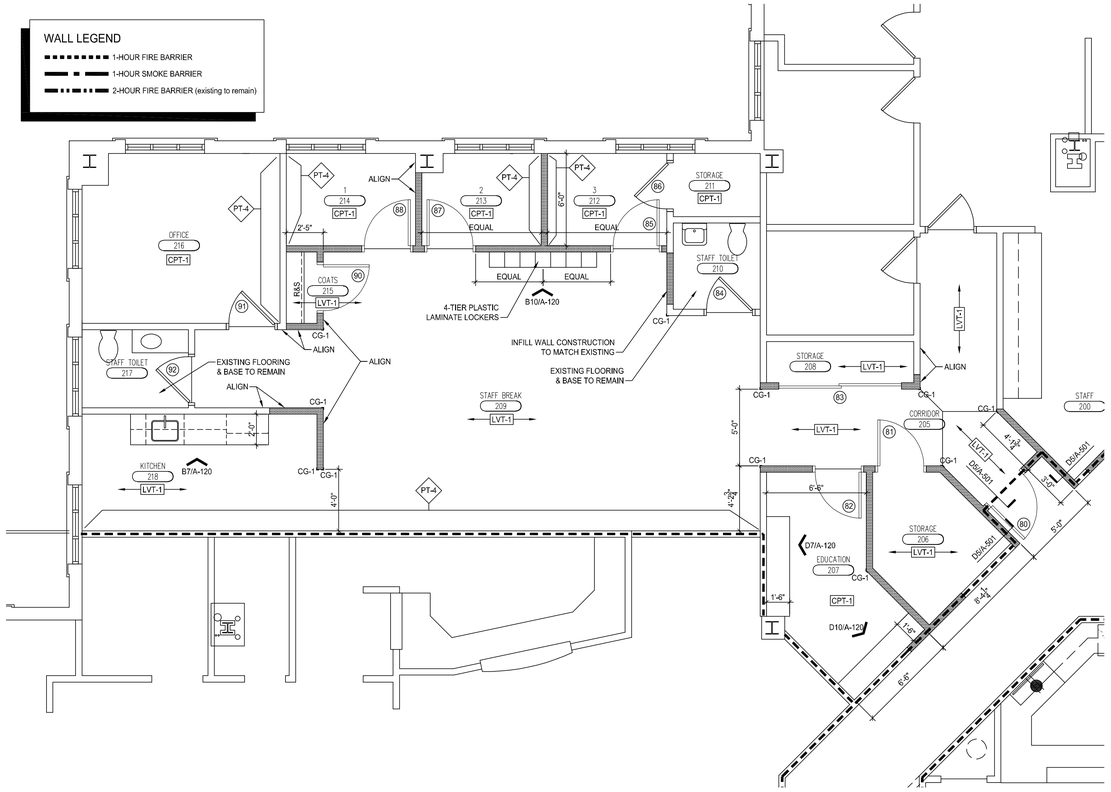
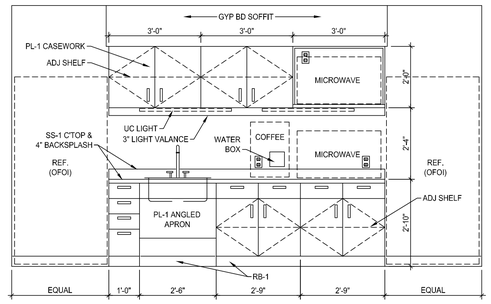
REVISIONS:

TITLE:
FIRST FLOOR PLAN - AREA 'B'

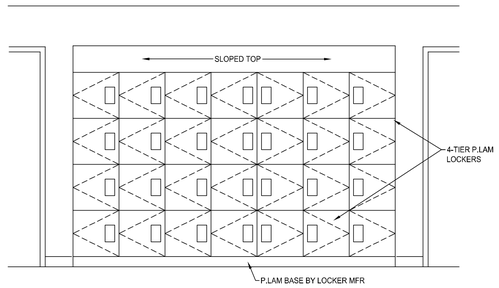
SHEET:
A-111



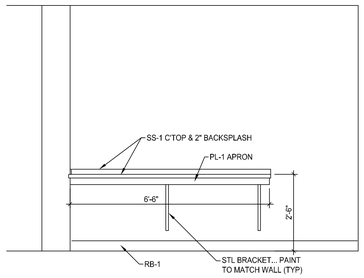
D1 SECOND FLOOR PLAN
A-120 SCALE: 1/4" = 1'-0"



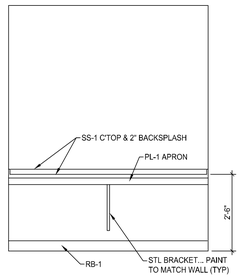
B7 KITCHEN - 218
A-120 SCALE: 1/2" = 1'-0"



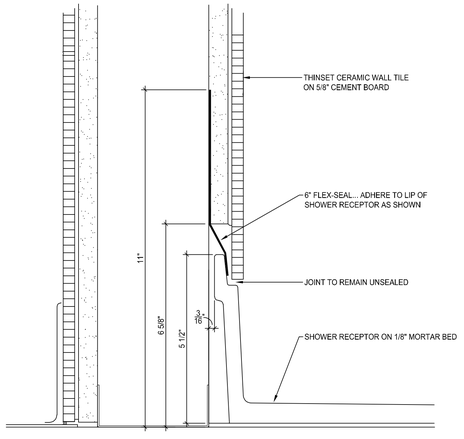
B10 STAFF BREAK - 209
A-120 SCALE: 1/2" = 1'-0"



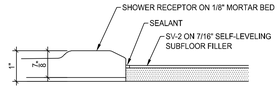
D7 EDUCATION - 207
A-120 SCALE: 1/2" = 1'-0"



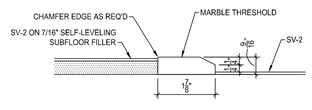
D10 EDUCATION - 207
A-120 SCALE: 1/2" = 1'-0"



H1 SHOWER RECEPTOR DETAIL
A-120 SCALE: 6" = 1'-0"



H4 SHOWER RECEPTOR DETAIL
A-120 SCALE: 6" = 1'-0"



H6 SHOWER 124 THRESHOLD DETAIL
A-120 SCALE: 6" = 1'-0"

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STATE OF SOUTH CAROLINA PAUL G. DOYLE MYRTLE BEACH, SC 17389 REGISTERED ARCHITECT

GRANDE DUNES A.S.C. RENOVATION - PHASE III

Myrtle Beach, South Carolina

for: HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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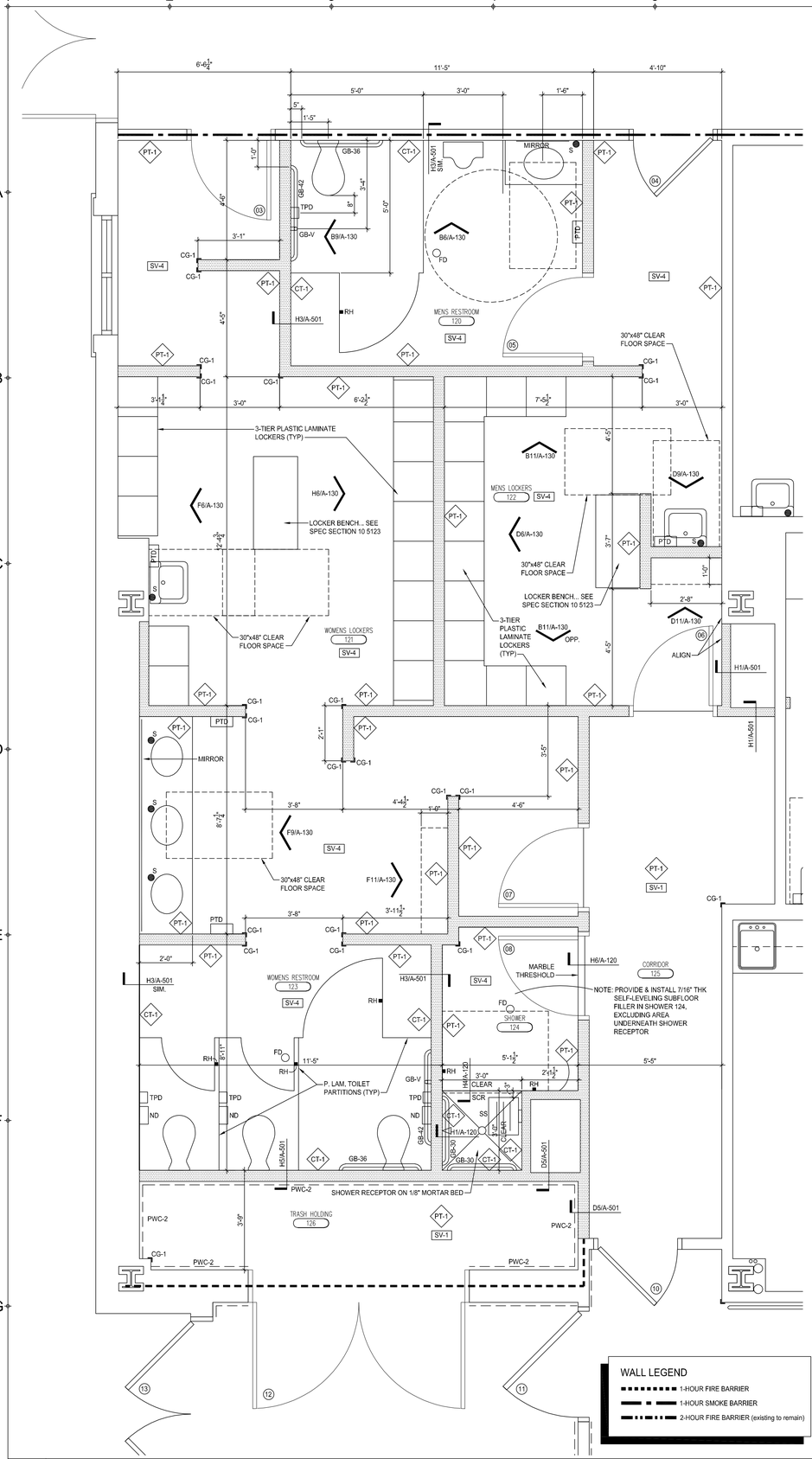
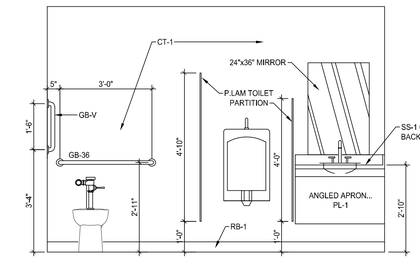
REVISIONS:

TITLE:
SECOND FLOOR PLAN

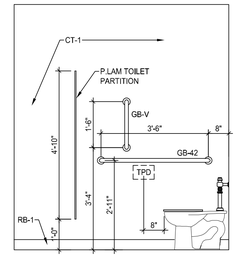
SHEET:
A-120



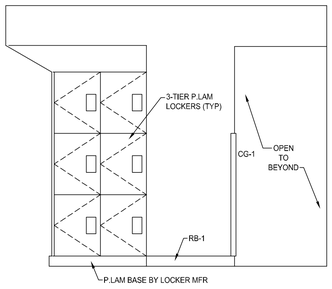
H1 | LARGE SCALE LOCKER ROOMS PLAN
A-130 | SCALE: 1/2" = 1'-0"



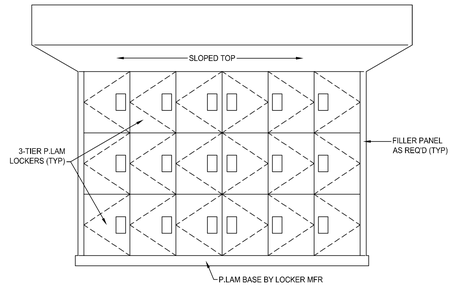
B6 | MENS RESTROOM - 120
A-130 | SCALE: 1/2" = 1'-0"



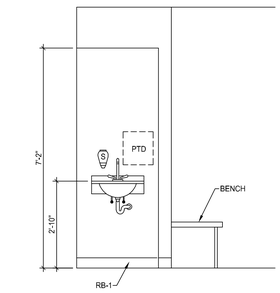
B9 | MENS RESTROOM - 120
A-130 | SCALE: 1/2" = 1'-0"



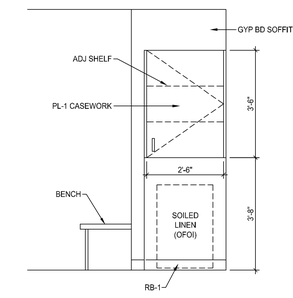
B11 | MENS LOCKERS - 122
A-130 | SCALE: 1/2" = 1'-0"



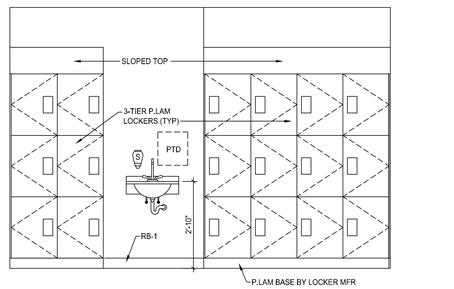
D6 | MENS LOCKERS - 122
A-130 | SCALE: 1/2" = 1'-0"



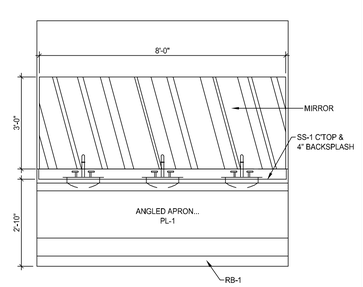
D9 | MENS LOCKERS - 122
A-130 | SCALE: 1/2" = 1'-0"



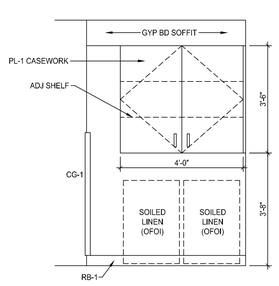
D11 | MENS LOCKERS - 122
A-130 | SCALE: 1/2" = 1'-0"



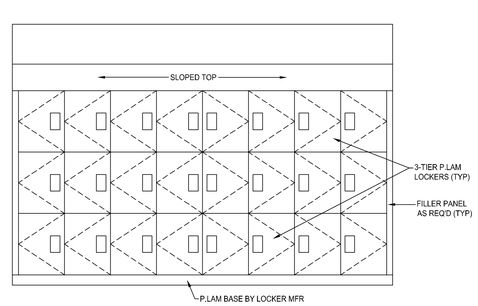
F6 | WOMENS LOCKERS - 121
A-130 | SCALE: 1/2" = 1'-0"



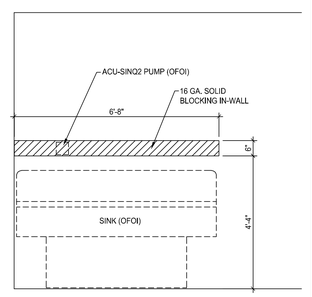
F9 | WOMENS RESTROOM - 123
A-130 | SCALE: 1/2" = 1'-0"



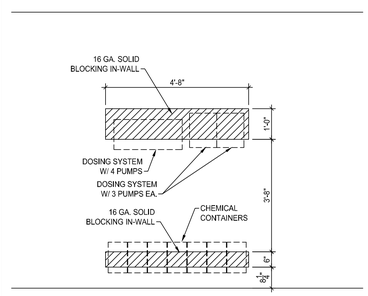
F11 | WOMENS RESTROOM - 123
A-130 | SCALE: 1/2" = 1'-0"



H6 | WOMENS LOCKERS - 121
A-130 | SCALE: 1/2" = 1'-0"



H9 | DECONTAMINATION - 159
A-130 | SCALE: 1/2" = 1'-0"



H11 | DECONTAMINATION - 159
A-130 | SCALE: 1/2" = 1'-0"

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No. 101503
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MYRTLE BEACH, SC
17389
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GRANDE DUNES A.S.C. RENOVATION - PHASE III

Myrtle Beach, South Carolina

for: HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
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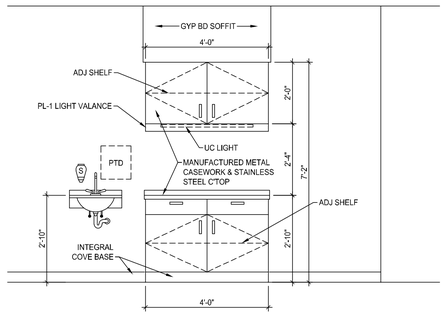
REVISIONS:

TITLE:

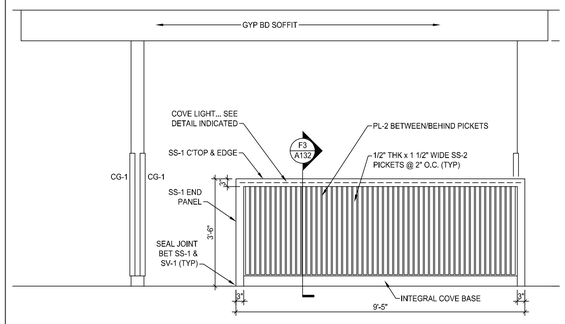
LARGE SCALE PLANS & INTERIOR ELEVATIONS

SHEET:

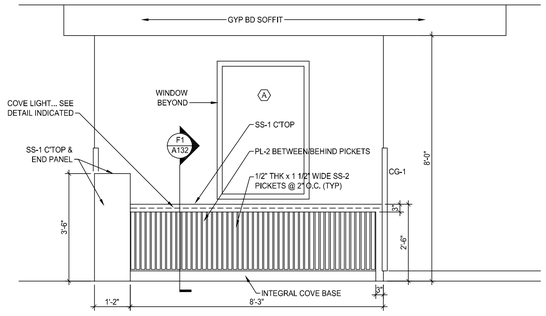
A-130



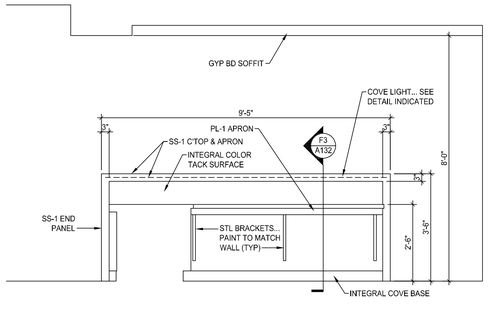
B1 | DECONTAMINATION - 159
A-131 | SCALE: 1/2" = 1'-0"



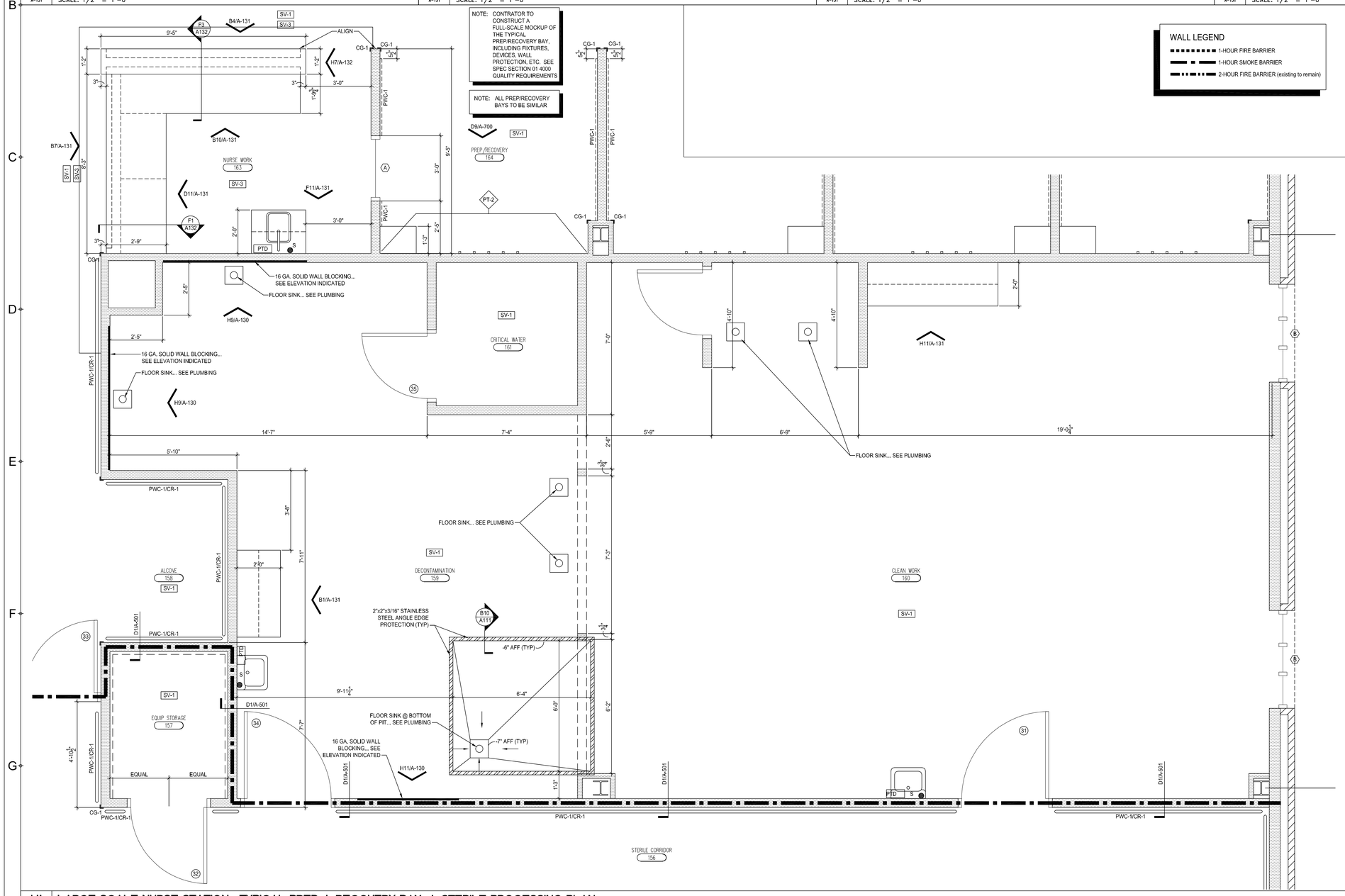
B4 | NURSE WORK - 163
A-131 | SCALE: 1/2" = 1'-0"



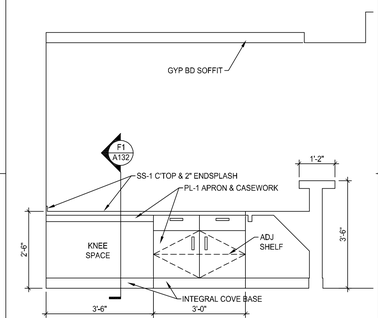
B7 | NURSE WORK - 163
A-131 | SCALE: 1/2" = 1'-0"



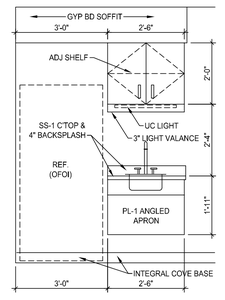
B10 | NURSE WORK - 163
A-131 | SCALE: 1/2" = 1'-0"



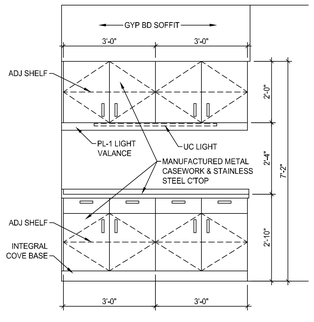
H1 | LARGE SCALE NURSE STATION, TYPICAL PREP + RECOVERY BAY, + STERILE PROCESSING PLAN
A-131 | SCALE: 1/2" = 1'-0"



D11 | NURSE WORK - 163
A-131 | SCALE: 1/2" = 1'-0"



F11 | NURSE WORK - 163
A-131 | SCALE: 1/2" = 1'-0"



H11 | CLEAN WORK - 160
A-131 | SCALE: 1/2" = 1'-0"

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Myrtle Beach, South Carolina
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HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
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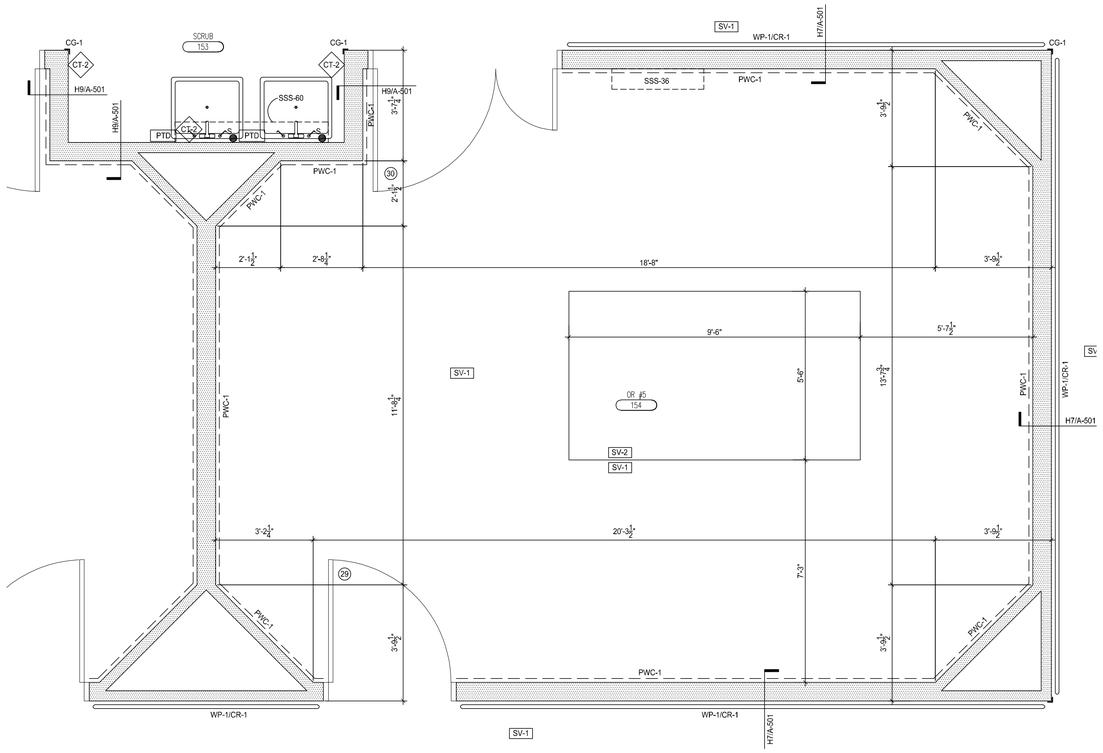
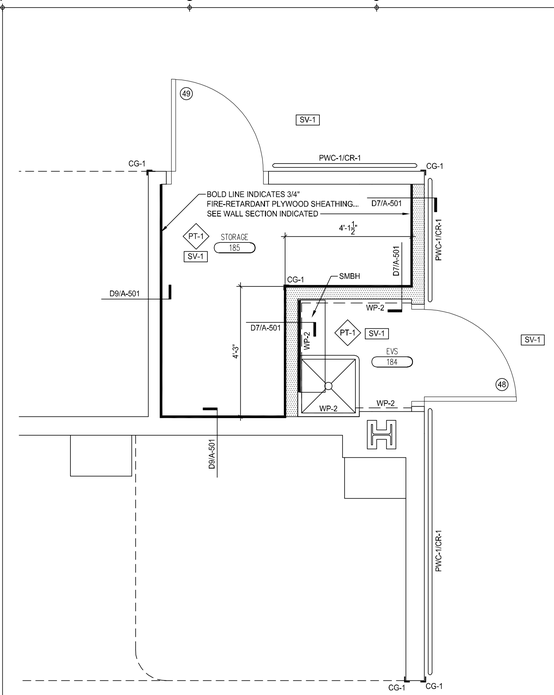
TITLE:
LARGE SCALE PLANS & INTERIOR ELEVATIONS

SHEET:
A-131



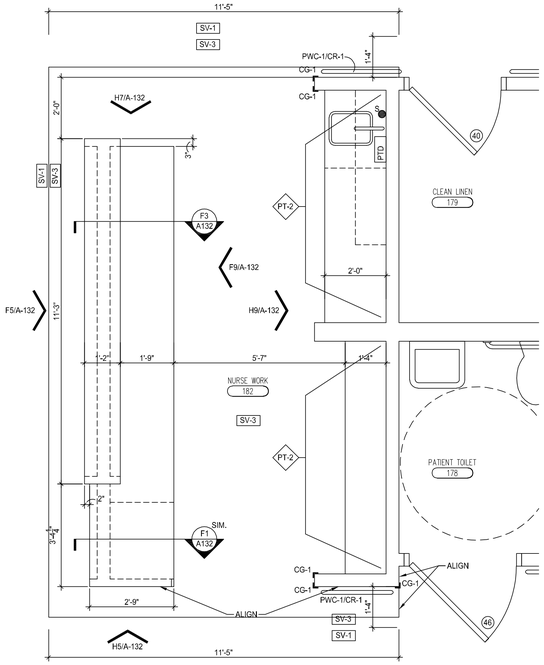
D1 LARGE SCALE OPERATING ROOM PLAN (typ.)

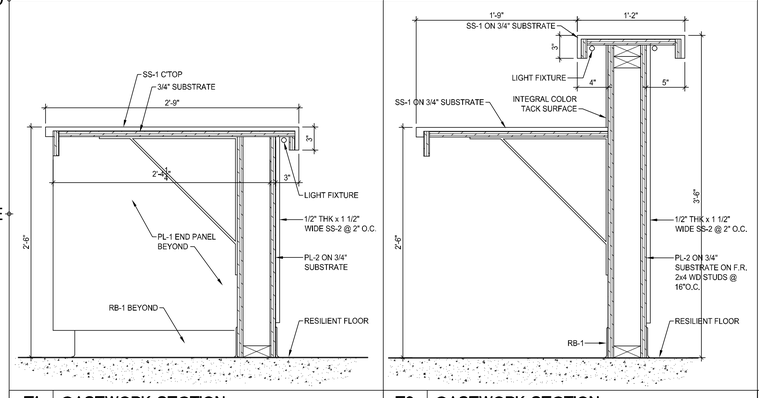
A-132 SCALE: 1/2" = 1'-0"



D7 LARGE SCALE NURSE STATION PLAN

A-132 SCALE: 1/2" = 1'-0"



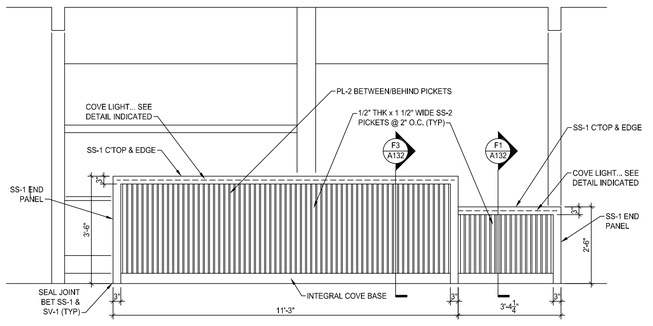


F1 CASEWORK SECTION

A-132 SCALE: 1 1/2" = 1'-0"

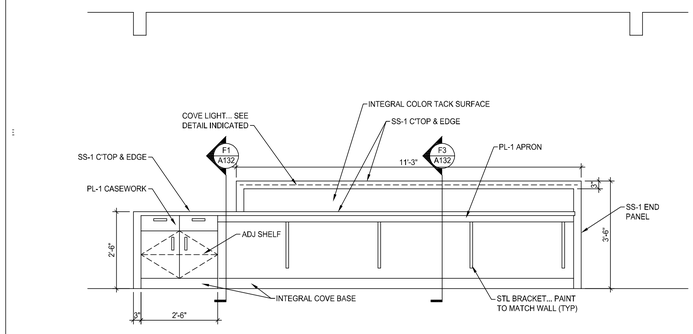
F3 CASEWORK SECTION

A-132 SCALE: 1 1/2" = 1'-0"



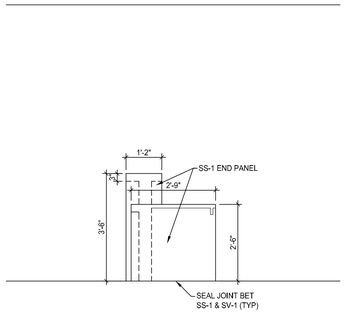
F5 NURSE WORK

A-132 SCALE: 1/2" = 1'-0"



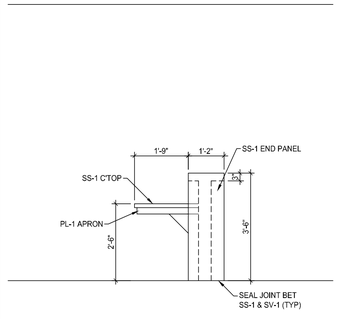
F9 NURSE WORK

A-132 SCALE: 1/2" = 1'-0"



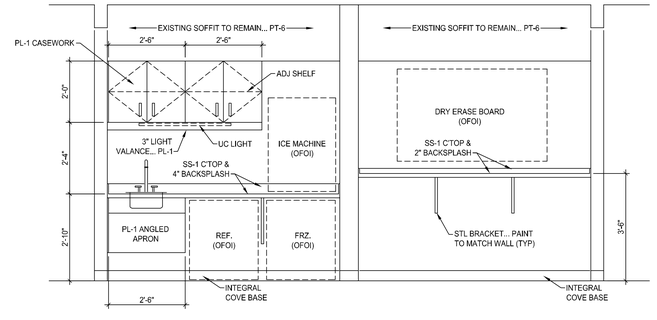
H5 NURSE WORK

A-132 SCALE: 1/2" = 1'-0"



H7 NURSE WORK

A-132 SCALE: 1/2" = 1'-0"



H9 NURSE WORK

A-132 SCALE: 1/2" = 1'-0"

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843.455.6879

Doyle Architecture, LLC Conway, SC No. 101503 REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA PAUL G. DOYLE MYRTLE BEACH, SC 17389 REGISTERED ARCHITECT

GRANDE DUNES A.S.C. RENOVATION - PHASE III

Myrtle Beach, South Carolina

for: HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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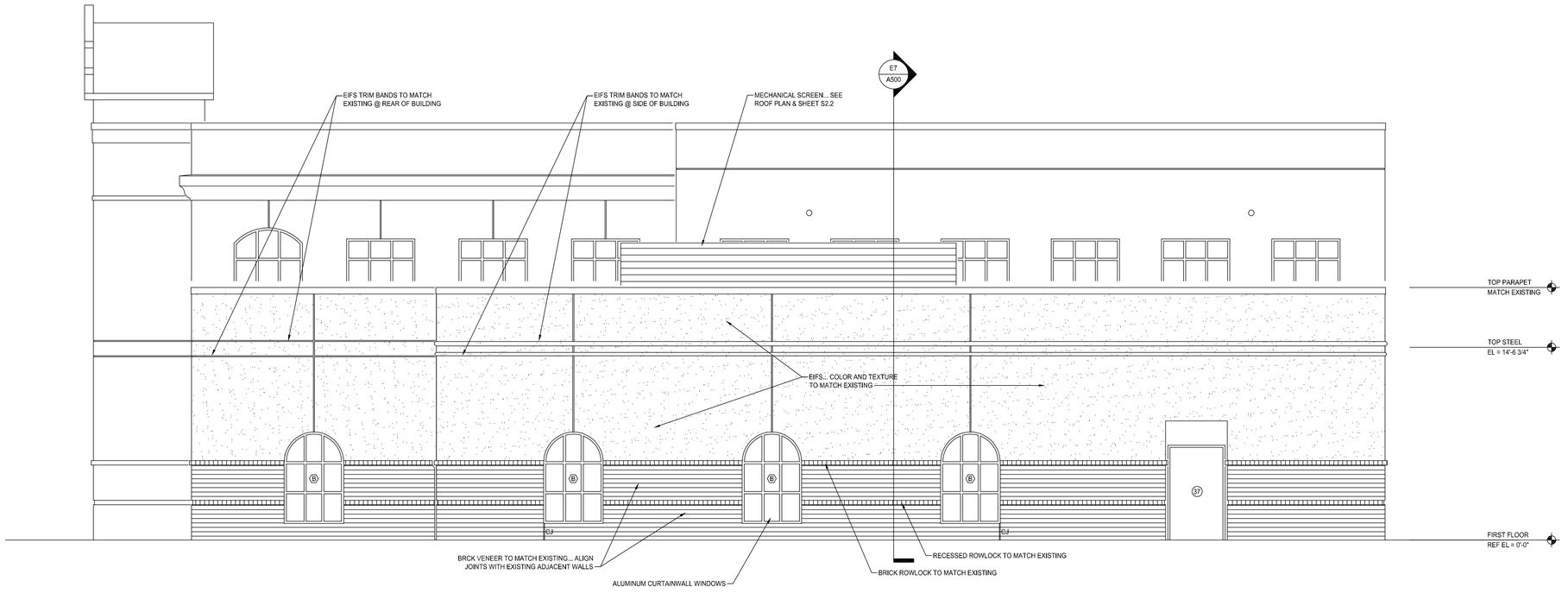
REVISIONS:

TITLE:

LARGE SCALE PLANS & INTERIOR ELEVATIONS

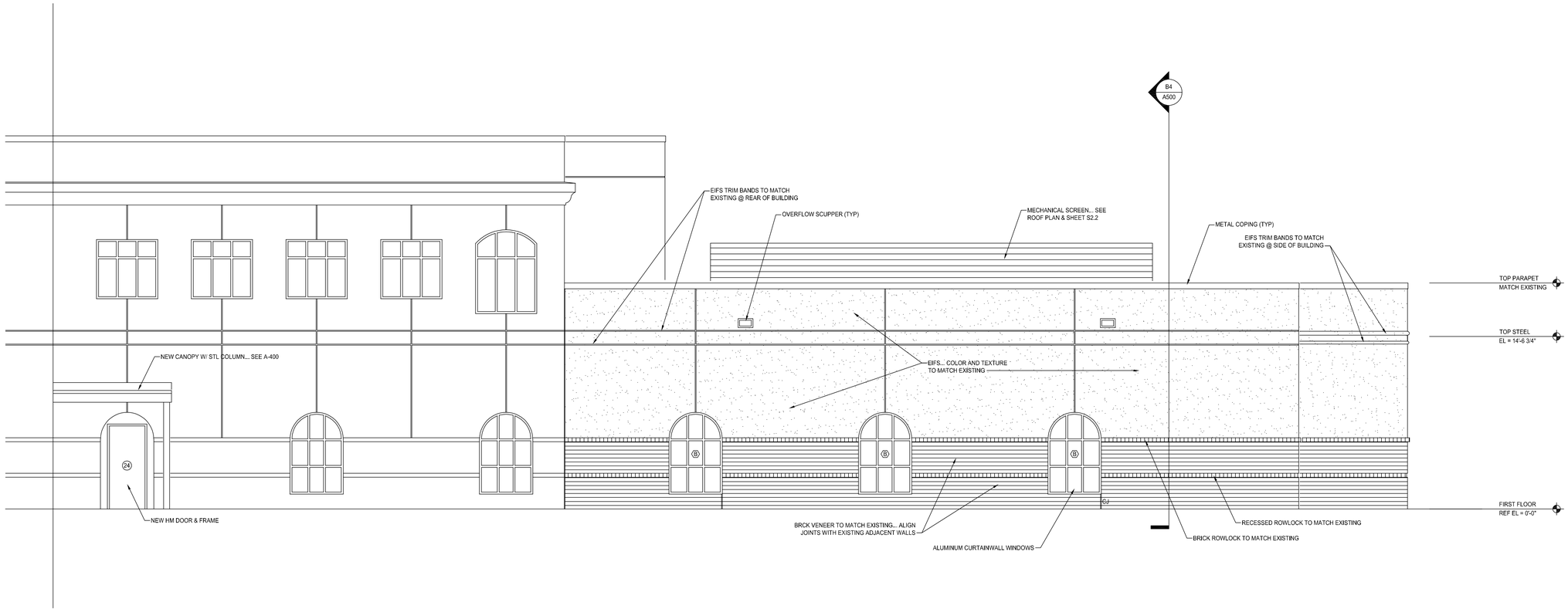
SHEET:

A-132



D1 EXTERIOR ELEVATION

A-200 SCALE: 1/4" = 1'-0"



H1 EXTERIOR ELEVATION

A-200 SCALE: 1/4" = 1'-0"

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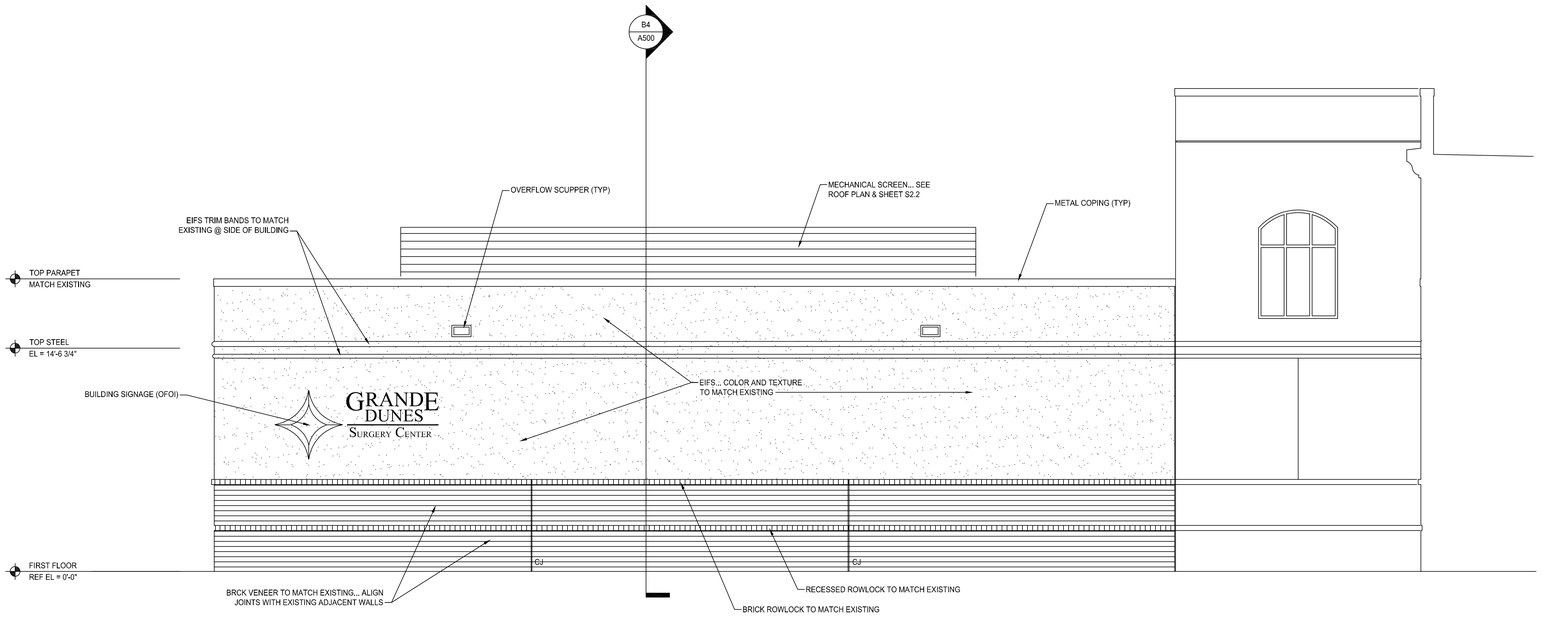
REVISIONS:

TITLE:
EXTERIOR ELEVATIONS

SHEET:
A-200



D1 EXTERIOR ELEVATION

A-201 SCALE: 1/4" = 1'-0"

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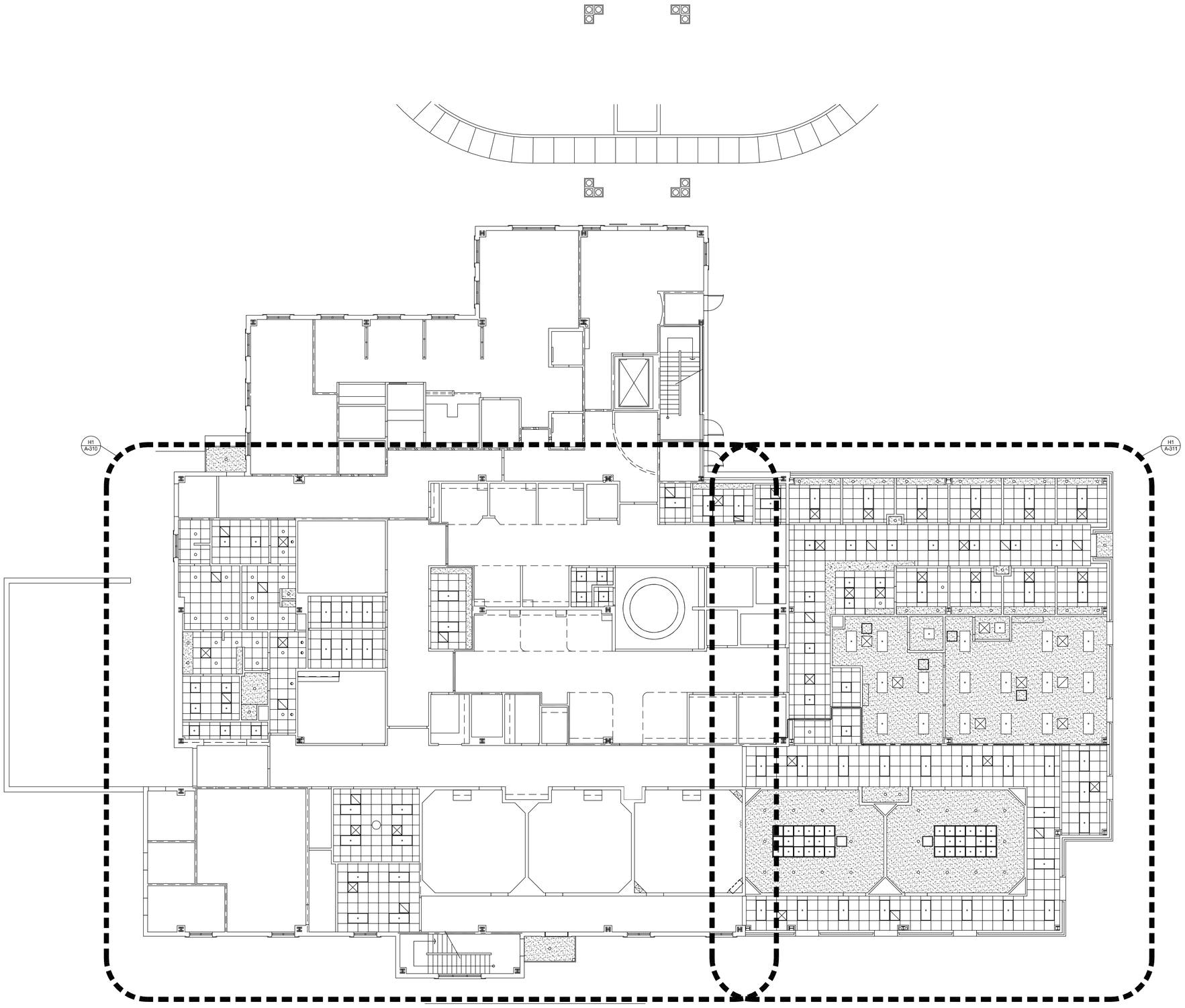
REVISIONS:

TITLE:
EXTERIOR ELEVATIONS

SHEET:
A-201



NOTE: ALL AREAS INSIDE THE WORK ZONE, EXCLUDING MECHANICAL AND ELECTRICAL ROOMS, SHALL RECEIVE NEW ACT TO BE INSTALLED IN EXISTING ACT GRID. ALL EXISTING GYPSUM BOARD CEILINGS SHALL REMAIN AND BE PAINTED PT-6.

H1 OVERALL FIRST FLOOR REFLECTED CEILING PLAN
A-300 SCALE: 1/8" = 1'-0"

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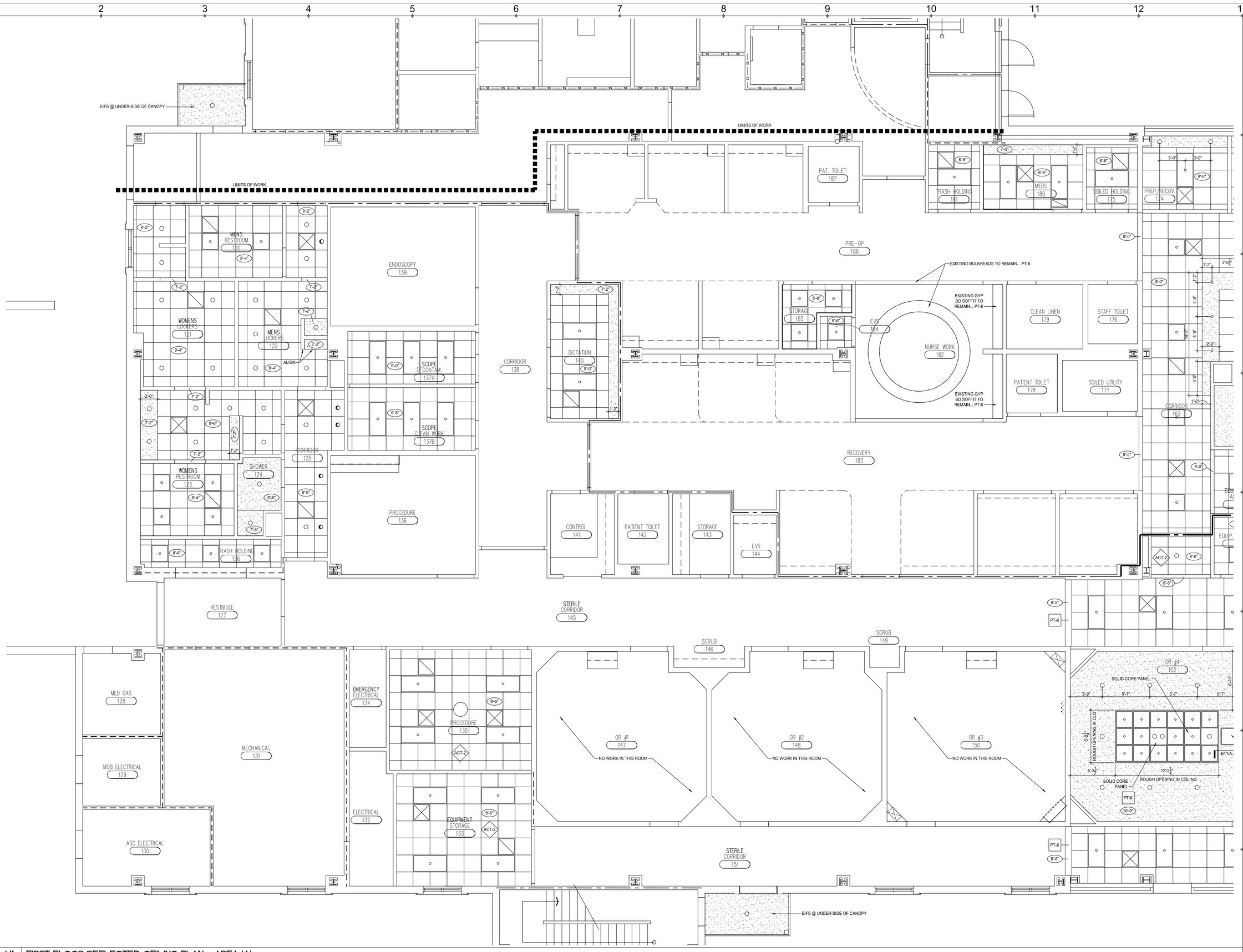
REVISIONS:

TITLE:
OVERALL FIRST FLOOR REFLECTED CEILING PLAN

SHEET:
A-300



H1 FIRST FLOOR REFLECTED CEILING PLAN - AREA 'A'

A-310 SCALE: 1/4" = 1'-0"

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STATE OF SOUTH CAROLINA — PAUL G. DOYLE — 17389 — REGISTERED ARCHITECT

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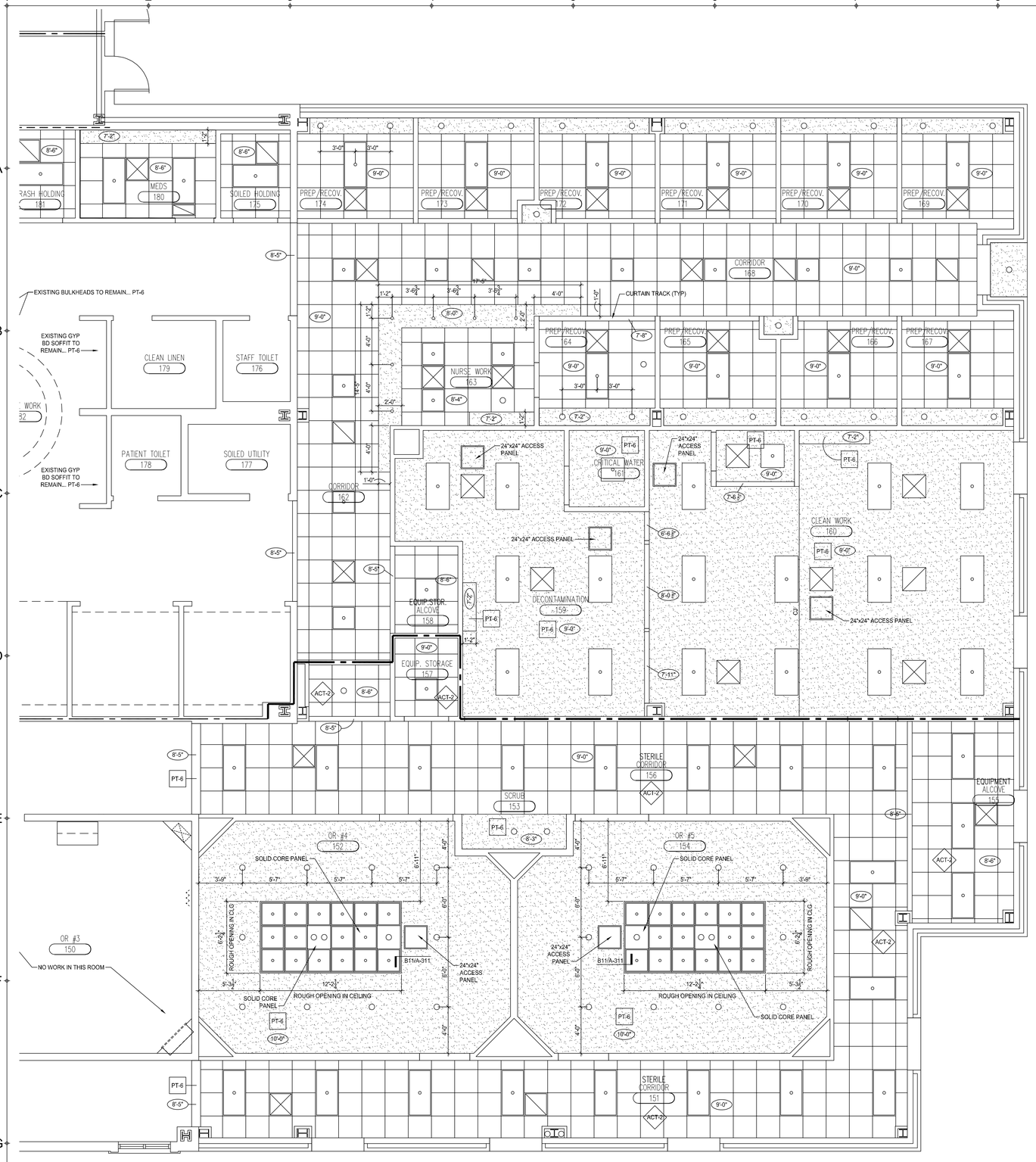
TITLE:

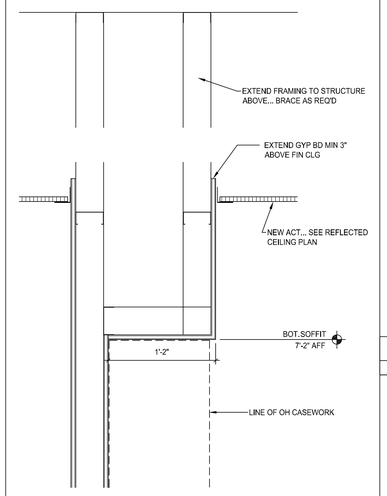
FIRST FLOOR REFLECTED CEILING PLAN - AREA 'A'

SHEET:

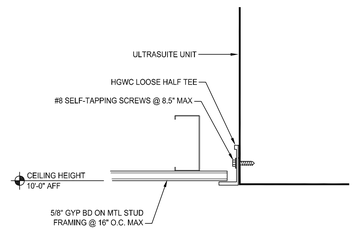
A-310



H1 | FIRST FLOOR REFLECTED CEILING PLAN - AREA 'B'
A-311 | SCALE: 1/4" = 1'-0"



C9 | SOFFIT DETAIL
A-311 | SCALE: 1 1/2" = 1'-0"



B11 | CEILING DETAIL @ O.R.'s
A-311 | SCALE: 3" = 1'-0"

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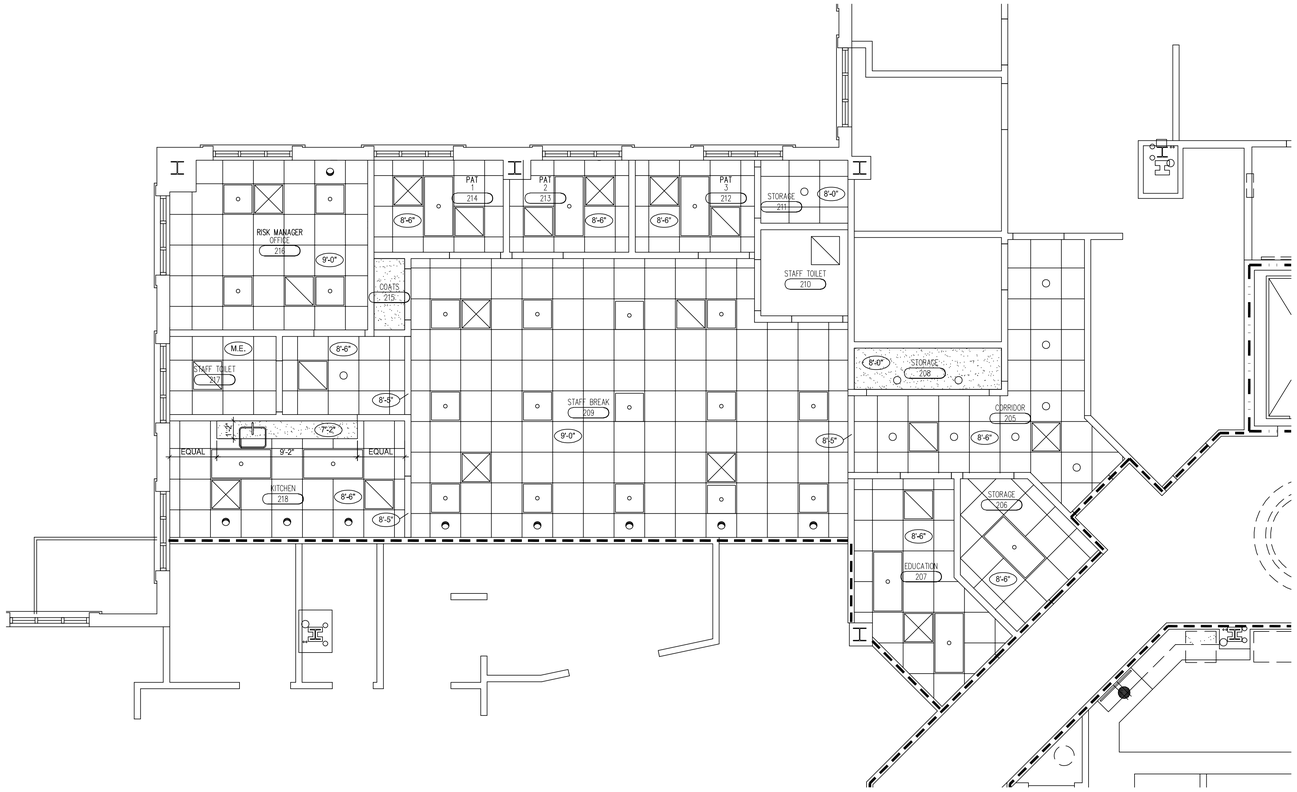
TITLE:
FIRST FLOOR REFLECTED CEILING PLAN - AREA 'B'

SHEET:
A-311



D1 SECOND FLOOR REFLECTED CEILING PLAN

A-320 SCALE: 1/4" = 1'-0"

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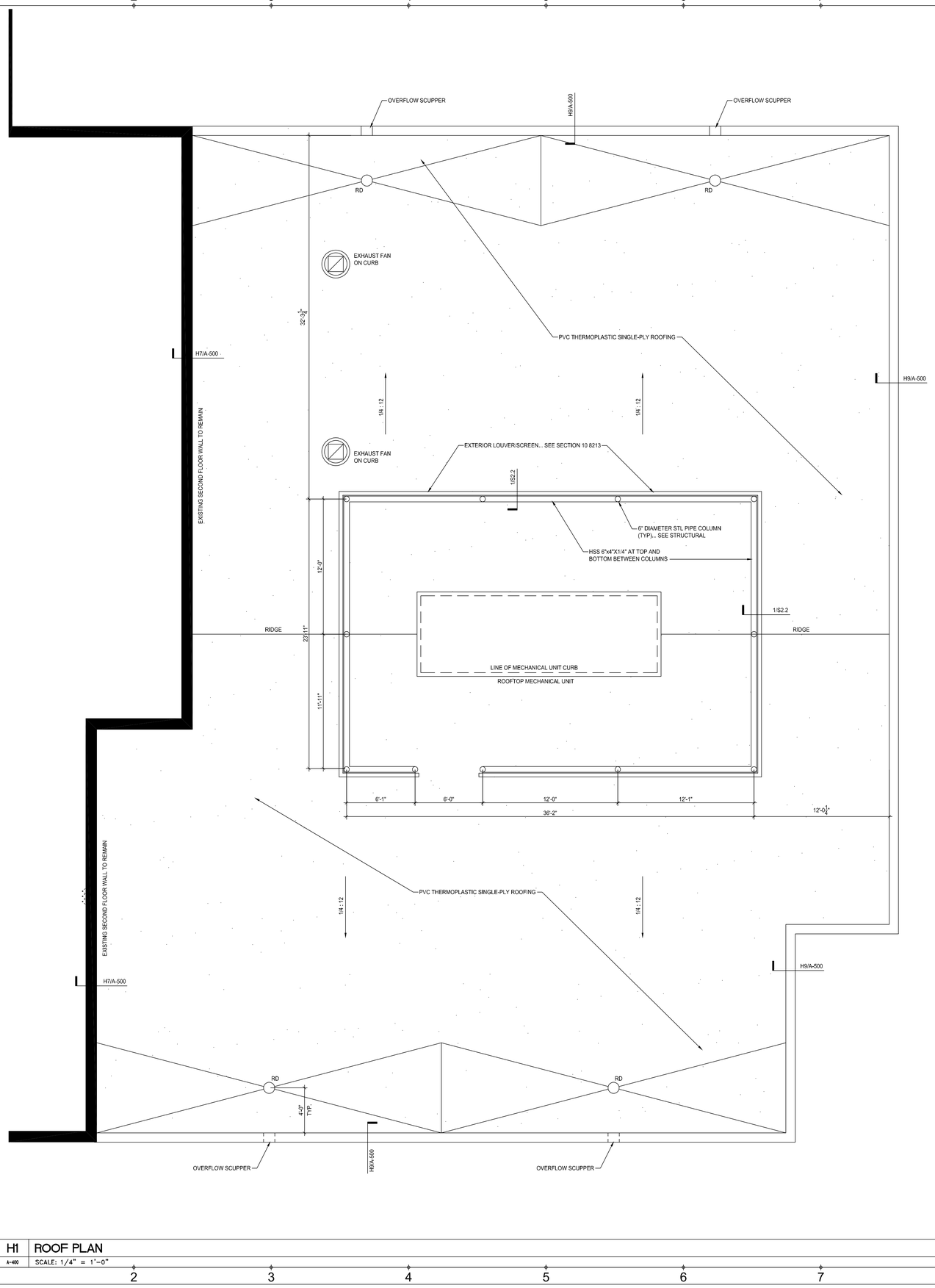
REVISIONS:

TITLE:

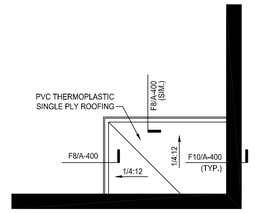
SECOND FLOOR REFLECTED CEILING PLAN & CEILING DETAILS

SHEET:

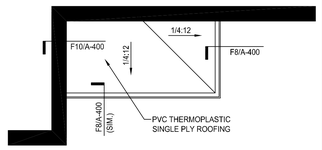
A-320



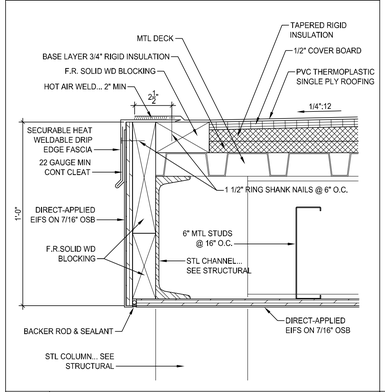
H1 ROOF PLAN
A-400 SCALE: 1/4" = 1'-0"



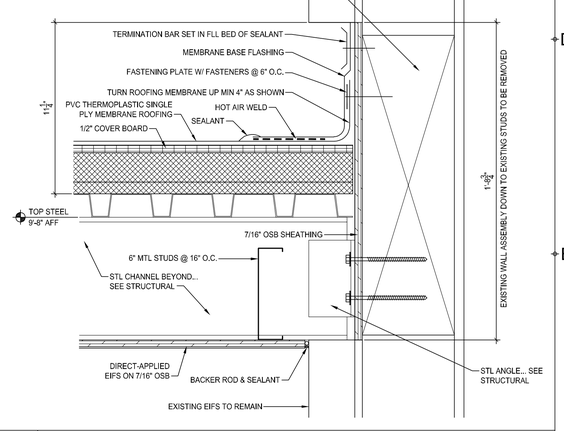
B8 CANOPY - ROOF PLAN
A-400 SCALE: 1/4" = 1'-0"



D8 CANOPY - ROOF PLAN
A-400 SCALE: 1/4" = 1'-0"



F8 CANOPY EDGE DETAIL
A-400 SCALE: 3" = 1'-0"



F10 CANOPY - ROOF DETAIL
A-400 SCALE: 3" = 1'-0"

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REGISTERED ARCHITECT

GRANDE DUNES A.S.C. RENOVATION - PHASE III

Myrtle Beach, South Carolina

for: HCA South Atlantic

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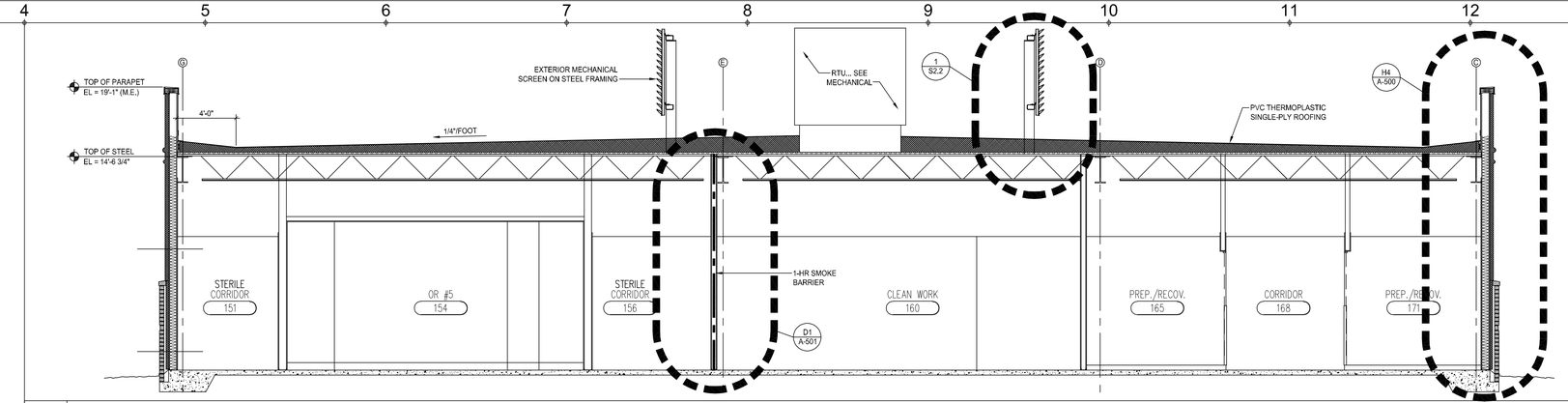
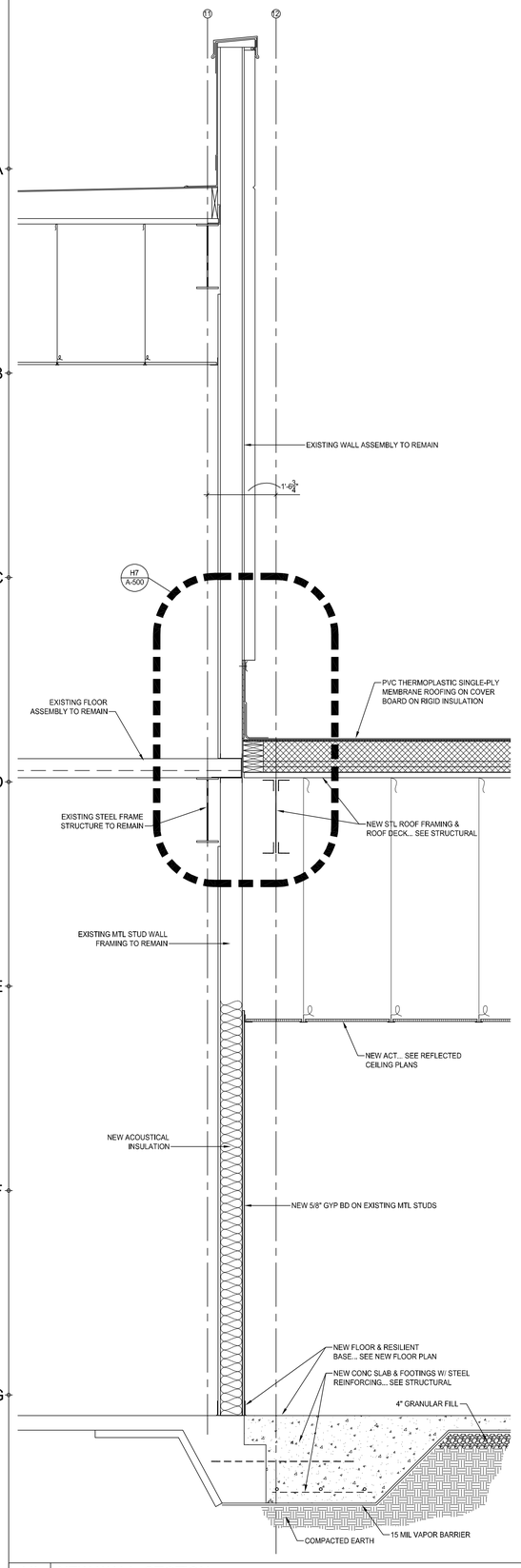
REVISIONS:

TITLE:
ROOF PLAN &
ROOF DETAILS

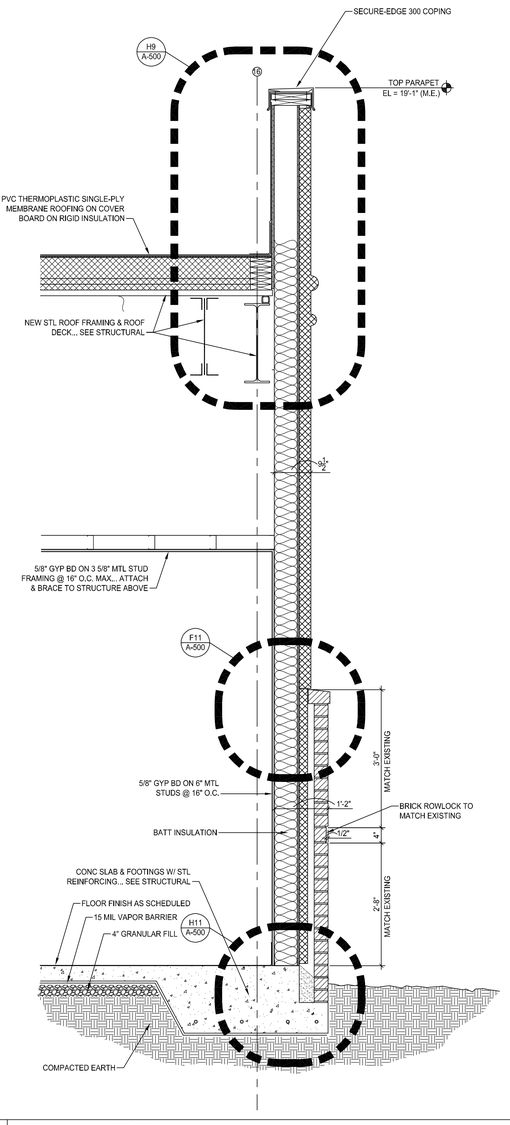
SHEET:
A-400



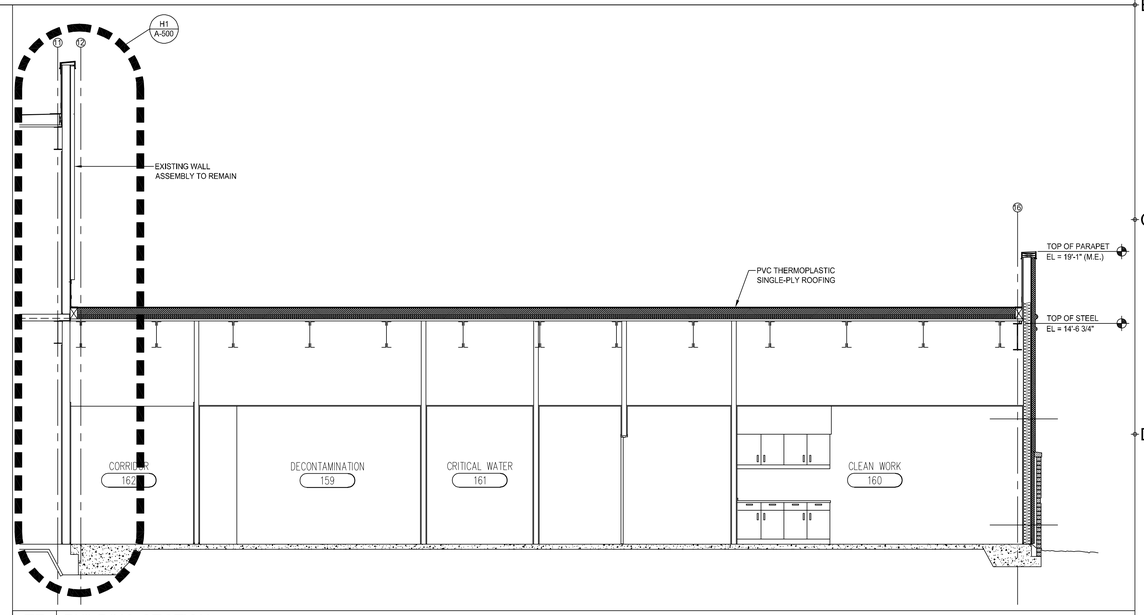
B4 BUILDING SECTION
A-500 SCALE: 1/4" = 1'-0"



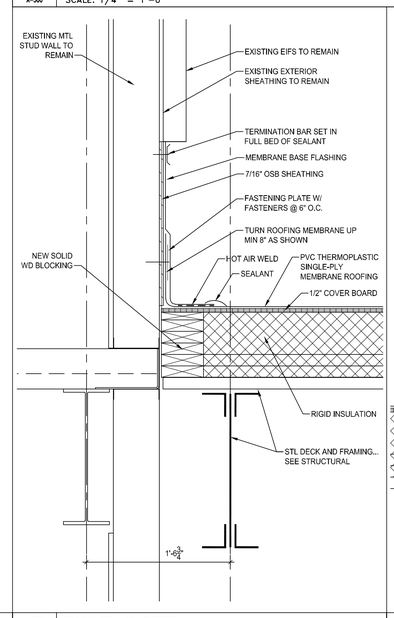
H1 NEW WALL SECTION
A-500 SCALE: 3/4" = 1'-0"



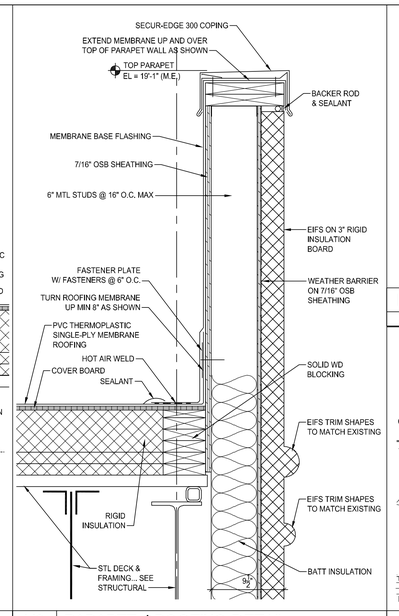
H4 NEW WALL SECTION
A-500 SCALE: 3/4" = 1'-0"



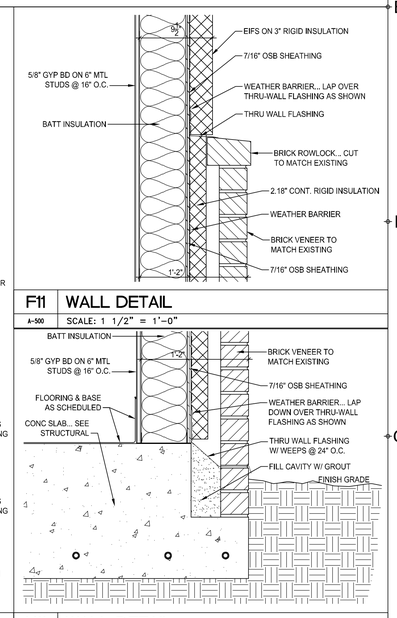
E7 BUILDING SECTION
A-500 SCALE: 1/4" = 1'-0"



H7 ROOFING DETAIL
A-500 SCALE: 1 1/2" = 1'-0"



H9 PARAPET / ROOFING DETAIL
A-500 SCALE: 1 1/2" = 1'-0"



F11 WALL DETAIL
A-500 SCALE: 1 1/2" = 1'-0"

H11 WALL DETAIL
A-500 SCALE: 1 1/2" = 1'-0"

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Myrtle Beach, South Carolina

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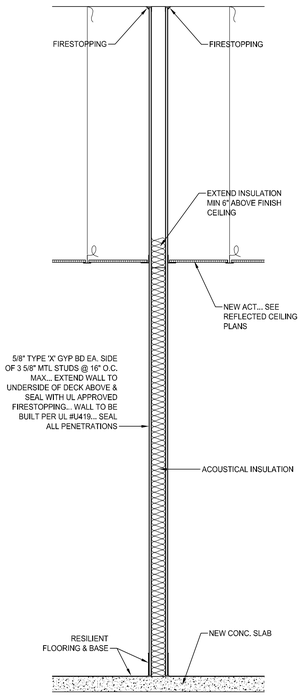
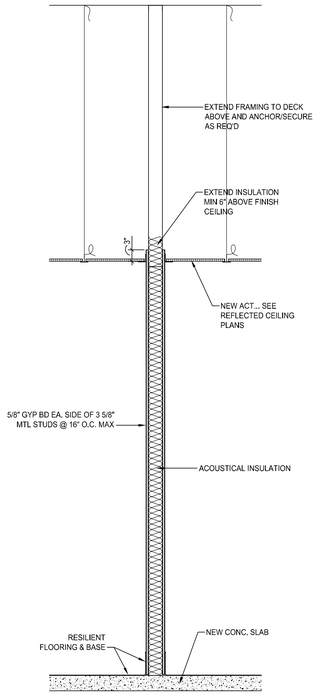
REVISIONS:

TITLE:
BUILDING & WALL SECTIONS

SHEET:
A-500

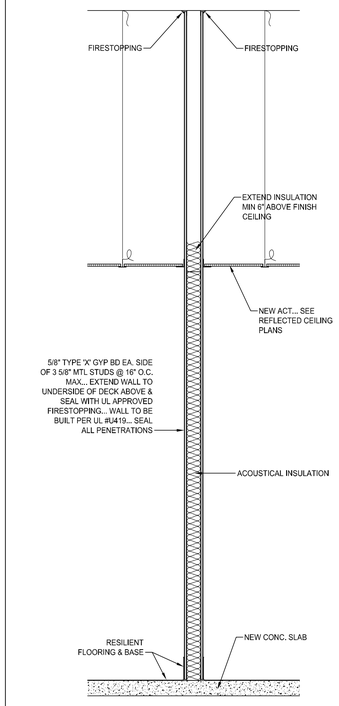


D1	WALL SECTION-1 HR SMOKE BARRIER
A-501	SCALE: 3/4" = 1'-0"

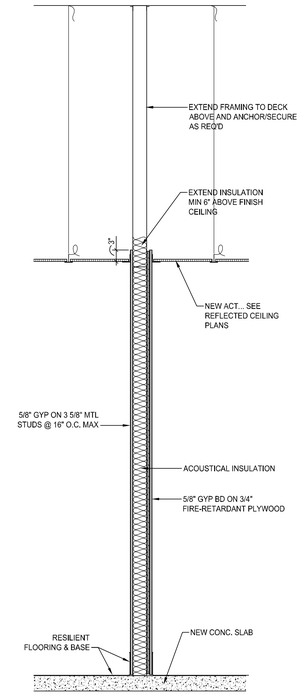


D3	TYPICAL WALL SECTION
A-501	SCALE: 3/4" = 1'-0"

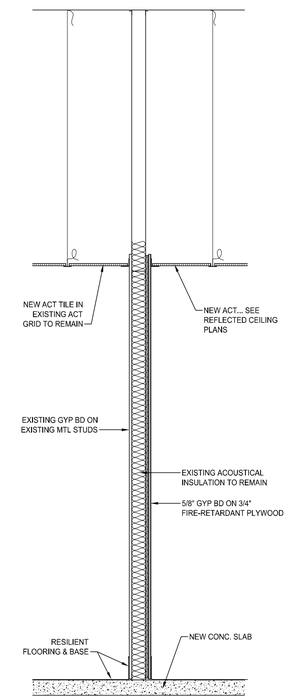
NOTE: ALL INTERIOR WALLS TO BE D3/A-501 U.N.O.



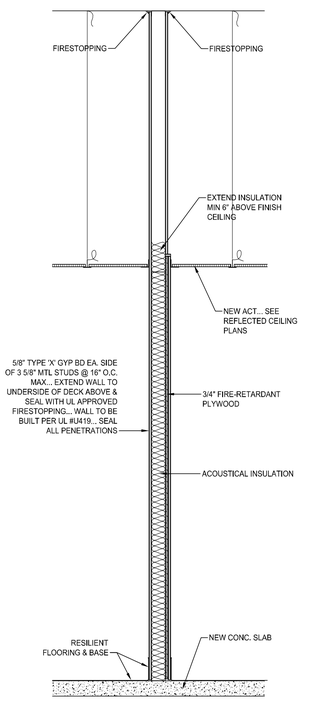
D5	WALL SECTION-1 HR FIRE PARTITION
A-501	SCALE: 3/4" = 1'-0"



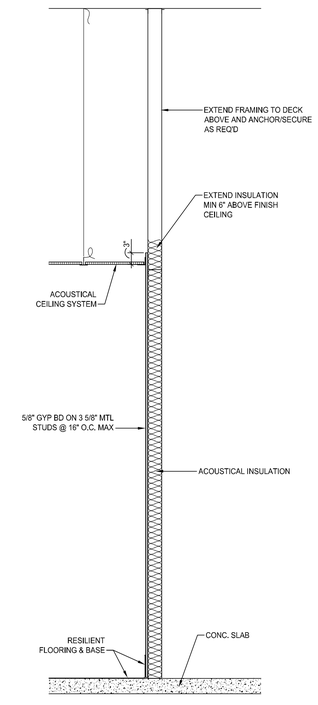
D7	WALL SECTION
A-501	SCALE: 3/4" = 1'-0"



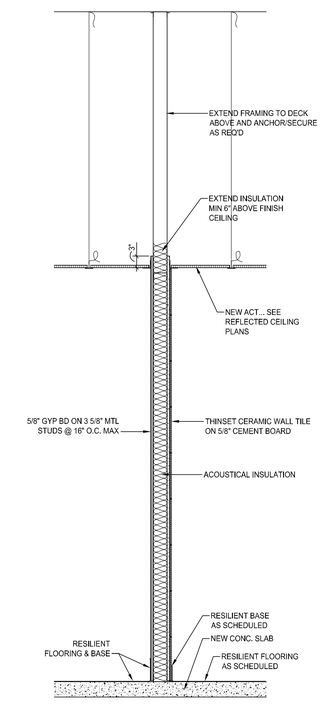
D9	WALL SECTION
A-501	SCALE: 3/4" = 1'-0"



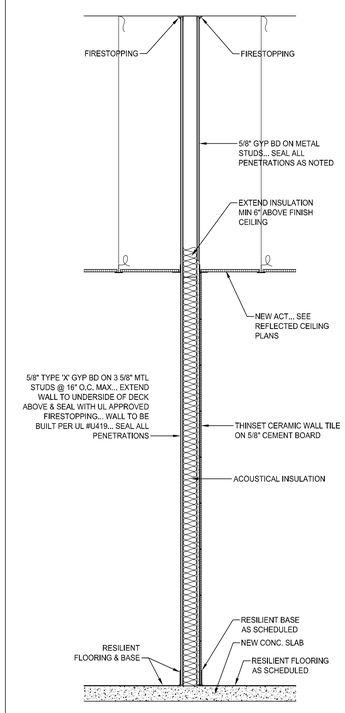
D11	WALL SECTION-1 HR FIRE PARTITION
A-501	SCALE: 3/4" = 1'-0"



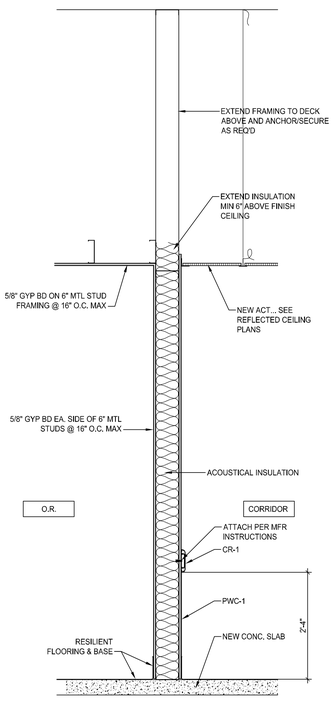
H1	WALL SECTION
A-501	SCALE: 3/4" = 1'-0"



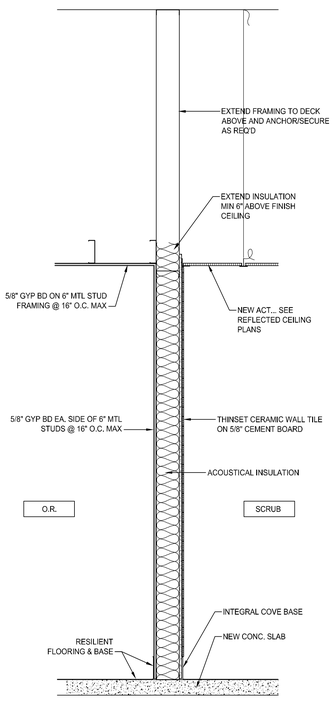
H3	WALL SECTION
A-501	SCALE: 3/4" = 1'-0"



H5	WALL SECTION - 1 HR FIRE PARTITION
A-501	SCALE: 3/4" = 1'-0"



H7	WALL SECTION @ O.R. WALLS (TYP)
A-501	SCALE: 3/4" = 1'-0"



H9	WALL SECTION
A-501	SCALE: 3/4" = 1'-0"

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REVISIONS:

TITLE:

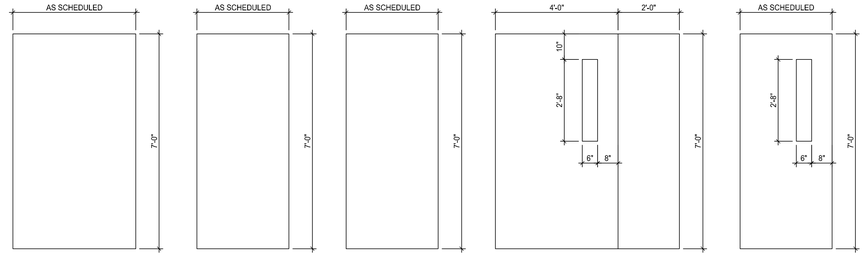
WALL SECTIONS

SHEET:

A-501

DOOR SCHEDULE

DOOR #	TYPE	MAT'L	RATING	DOOR WIDTH	DOOR HEIGHT	DOOR THICK	FRAME MAT	FRAME TYPE	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	HDWRE	NOTES
FIRST FLOOR													
01	D1	HM	NONE	PR 3'-0"	7'-0"	1 3/4"	HM	F3	–	–	–	103A	–
02	EXIST.	–	NONE	3'-6"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOOR, FRAME, & HARDWARE TO REMAIN
03	D3	SCWD	45 MIN	3'-0"	7'-0"	1 3/4"	HM	F2	–	–	–	005F	–
04	EXIST.	–	45 MIN	3'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOOR, FRAME, & HARDWARE TO REMAIN
05	D2	SCWD	NONE	3'-0"	7'-0"	1 3/4"	HM	F1	–	–	–	005E	–
06	D2	SCWD	NONE	3'-0"	7'-0"	1 3/4"	HM	F1	–	–	–	005E	–
07	D2	SCWD	NONE	3'-0"	7'-0"	1 3/4"	HM	F1	–	–	–	005E	–
08	D2	SCWD	NONE	3'-0"	7'-0"	1 3/4"	HM	F1	–	–	–	005A	–
09	EXIST.	–	NONE	–	–	–	–	–	–	–	–	–	NOT USED
10	EXIST.	–	NONE	3'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOOR, FRAME, & HARDWARE TO REMAIN
11	EXIST.	–	NONE	4'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOOR, FRAME, & HARDWARE TO REMAIN
12	D3	SCWD	45 MIN	PR 4'-0"	7'-0"	1 3/4"	HM	F2	–	–	–	110C	–
13	EXIST.	–	NONE	PR 3'-6"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOORS, FRAME, & HARDWARE TO REMAIN
14	EXIST.	–	NONE	3'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOOR, FRAME, & HARDWARE TO REMAIN
15	EXIST.	HM	45 MIN	PR 3'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOORS, FRAME, & HARDWARE TO REMAIN
16	EXIST.	HM	NONE	3'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOOR, FRAME, & HARDWARE TO REMAIN
17	EXIST.	HM	NONE	3'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOOR, FRAME, & HARDWARE TO REMAIN
18	EXIST.	SCWD	NONE	4'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOOR, FRAME, & HARDWARE TO REMAIN
19	D3	SCWD	45 MIN	PR 3'-0"	7'-0"	1 3/4"	HM	F2	–	–	–	013C	–
20	EXIST.	SCWD	NONE	3'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOOR, FRAME, & HARDWARE TO REMAIN
21	EXIST.	SCWD	NONE	4'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOOR, FRAME, & HARDWARE TO REMAIN
22	EXIST.	SCWD	NONE	4'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOOR, FRAME, & HARDWARE TO REMAIN
23	EXIST.	SCWD	NONE	3'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOOR, FRAME, & HARDWARE TO REMAIN
24	D1	HM	NONE	4'-0"	7'-0"	1 3/4"	HM	F3	–	–	–	102C	–
25	EXIST.	SCWD	NONE	3'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOOR, FRAME, & HARDWARE TO REMAIN
26	EXIST.	SCWD	NONE	4'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOOR, FRAME, & HARDWARE TO REMAIN
27	D4	SCWD	NONE	6'-0"	7'-0"	1 3/4"	HM	F1	–	–	–	015C	–
28	D2	SCWD	NONE	4'-0"	7'-0"	1 3/4"	HM	F1	–	–	–	016C	–
29	D2	SCWD	NONE	4'-0"	7'-0"	1 3/4"	HM	F1	–	–	–	016C	–
30	D4	SCWD	NONE	6'-0"	7'-0"	1 3/4"	HM	F1	–	–	–	015C	–
31	D3	SCWD	45 MIN	4'-0"	7'-0"	1 3/4"	HM	F2	–	–	–	016B	–
32	D3	SCWD	45 MIN	3'-6"	7'-0"	1 3/4"	HM	F2	–	–	–	006A	–
33	D5	SCWD	45 MIN	PR 3'-4"	7'-0"	1 3/4"	HM	F2	–	–	–	011D	–
34	D3	SCWD	45 MIN	4'-0"	7'-0"	1 3/4"	HM	F1	–	–	–	016B	–
35	D2	SCWD	NONE	3'-0"	7'-0"	1 3/4"	HM	F1	–	–	–	008A	–
36	D2	SCWD	NONE	3'-0"	7'-0"	1 3/4"	HM	F1	–	–	–	008A	–
37	D1	HM	NONE	4'-0"	7'-0"	1 3/4"	HM	F3	–	–	–	102C	–
38	D3	SCWD	45 MIN	3'-6"	7'-0"	1 3/4"	HM	F2	–	–	–	006A	–
39	EXIST.	SCWD	NONE	3'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOOR, FRAME, & HARDWARE TO REMAIN
40	EXIST.	SCWD	NONE	3'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOOR, FRAME, & HARDWARE TO REMAIN
41	D2	SCWD	NONE	3'-0"	7'-0"	1 3/4"	HM	F1	–	–	–	009A	–
42	D3	SCWD	45 MIN	3'-6"	7'-0"	1 3/4"	HM	F2	–	–	–	006A	–
43	EXIST.	SCWD	NONE	3'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOOR, FRAME, & HARDWARE TO REMAIN
44	EXIST.	ALUM	NONE	PR 4'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOOR, FRAME, & HARDWARE TO REMAIN
45	EXIST.	ALUM	NONE	PR 4'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOOR, FRAME, & HARDWARE TO REMAIN
46	EXIST.	SCWD	NONE	3'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOOR, FRAME, & HARDWARE TO REMAIN
47	EXIST.	SCWD	45 MIN	4'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOOR, FRAME, & HARDWARE TO REMAIN
48	D2	SCWD	NONE	3'-0"	7'-0"	1 3/4"	HM	F1	–	–	–	006A	–
49	D2	SCWD	NONE	3'-0"	7'-0"	1 3/4"	HM	F1	–	–	–	006A	–
50	EXIST.	SCWD	NONE	3'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOOR, FRAME, & HARDWARE TO REMAIN
51	EXIST.	SCWD	NONE	4'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOOR, FRAME, & HARDWARE TO REMAIN
52	EXIST.	SCWD	45 MIN	PR 3'-6"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOORS, FRAME, & HARDWARE TO REMAIN
53	EXIST.	SCWD	45 MIN	PR 3'-6"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOORS, FRAME, & HARDWARE TO REMAIN
54	EXIST.	SCWD	NONE	4'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOORS, FRAME, & HARDWARE TO REMAIN
55	D2	SCWD	NONE	3'-0"	7'-0"	1 3/4"	HM	F1	–	–	–	016A	–
56	EXIST.	SCWD	NONE	3'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOORS, FRAME, & HARDWARE TO REMAIN
57	EXIST.	SCWD	45 MIN	PR 3'-6"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOORS, FRAME, & HARDWARE TO REMAIN
58	EXIST.	SCWD	NONE	3'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOORS, FRAME, & HARDWARE TO REMAIN
59	EXIST.	SCWD	NONE	3'-6"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOORS, FRAME, & HARDWARE TO REMAIN
60	EXIST.	SCWD	NONE	3'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOORS, FRAME, & HARDWARE TO REMAIN
61	EXIST.	SCWD	NONE	3'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOORS, FRAME, & HARDWARE TO REMAIN
62	EXIST.	SCWD	NONE	PR 3'-6"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOORS, FRAME, & HARDWARE TO REMAIN
63	EXIST.	SCWD	NONE	4'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOORS, FRAME, & HARDWARE TO REMAIN
64	D3	SCWD	45 MIN	3'-0"	7'-0"	1 3/4"	HM	F2	–	–	–	007A	–
65	EXIST.	SCWD	45 MIN	3'-6"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOORS, FRAME, & HARDWARE TO REMAIN
66	D2	SCWD	NONE	3'-0"	7'-0"	1 3/4"	HM	F1	–	–	–	016A	–
SECOND FLOOR													
80	D3	SCWD	45 MIN	3'-0"	7'-0"	1 3/4"	HM	F2	–	–	–	009B	–
81	D2	SCWD	NONE	3'-0"	7'-0"	1 3/4"	HM	F1	–	–	–	007C	–
82	D2	SCWD	NONE	3'-0"	7'-0"	1 3/4"	HM	F1	–	–	–	004A	–
83	D2	SCWD	NONE	PR 4'-0"	7'-0"	1 3/4"	NONE	–	–	–	–	110D	BY-PASS SLIDING DOORS
84	EXIST.	SCWD	NONE	3'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOOR, FRAME, & HARDWARE TO REMAIN
85	D2	SCWD	NONE	3'-0"	7'-0"	1 3/4"	HM	F1	–	–	–	003A	–
86	EXIST.	SCWD	NONE	3'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOOR, FRAME, & HARDWARE TO REMAIN
87	D2	SCWD	NONE	3'-0"	7'-0"	1 3/4"	HM	F1	–	–	–	003A	–
88	D2	SCWD	NONE	3'-0"	7'-0"	1 3/4"	HM	F1	–	–	–	003A	–
89	–	–	–	–	–	–	–	–	–	–	–	–	NOT USED
90	D2	SCWD	NONE	3'-0"	7'-0"	1 3/4"	HM	F1	–	–	–	008A	–
91	EXIST.	SCWD	NONE	3'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOOR, FRAME, & HARDWARE TO REMAIN
92	EXIST.	SCWD	NONE	3'-0"	7'-0"	1 3/4"	–	–	–	–	–	–	EXISTING DOOR, FRAME, & HARDWARE TO REMAIN



D1
HM
NON-RATED
HURRICANE-RESISTANT

D2
SCWD
NON-RATED

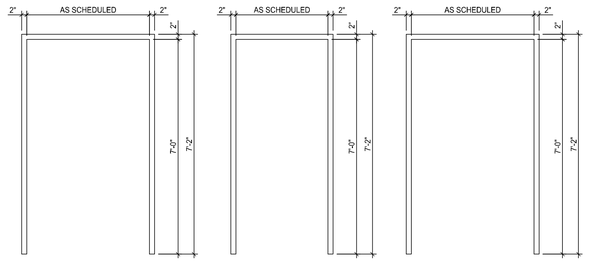
D3
SCWD
45 MINUTE RATED

D4
SCWD
NON-RATED
G-5 GLAZING

D5
SCWD
45 MIN RATED
G-4 GLAZING

B7 DOOR TYPES

A-600 SCALE: 1/2" = 1'-0"



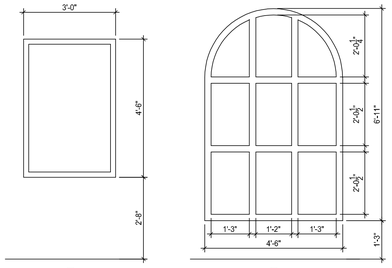
F1
HM
NON-RATED

F2
HM
45 MINUTE RATED

F3
HM
NON-RATED
HURRICANE-RESISTANT

D7 DOOR FRAME TYPES

A-600 SCALE: 1/2" = 1'-0"



A
HM
NON-RATED
G-5 GLAZING

B
ALUM CURTAINWALL
NON-RATED
G-8 GLAZING

F7 WINDOW TYPES

A-600 SCALE: 1/2" = 1'-0"

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STATE OF SOUTH CAROLINA — PAUL G. DOYLE — 7389 — REGISTERED ARCHITECT

GRANDE DUNES A.S.C.
RENOVATION - PHASE III
Myrtle Beach, South Carolina
for: HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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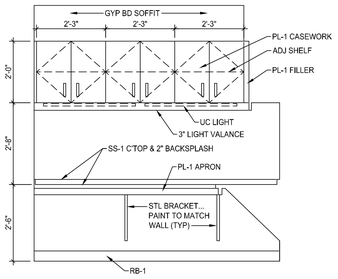
TITLE:

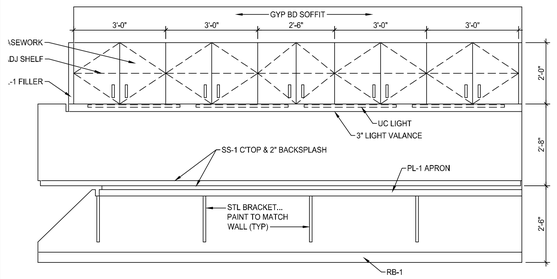
DOOR SCHEDULE, DOOR & WINDOW TYPES

SHEET:

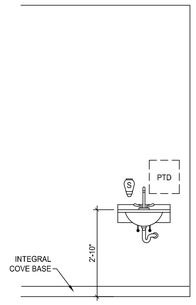
A-600



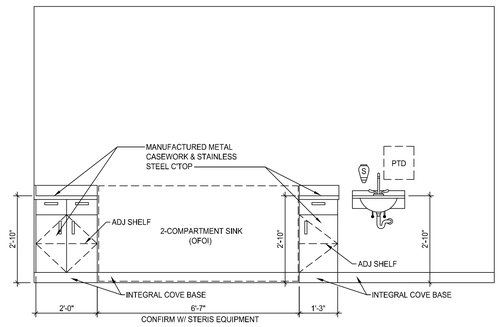
B1	DICTATION - 140
A-700	SCALE: 1/2" = 1'-0"



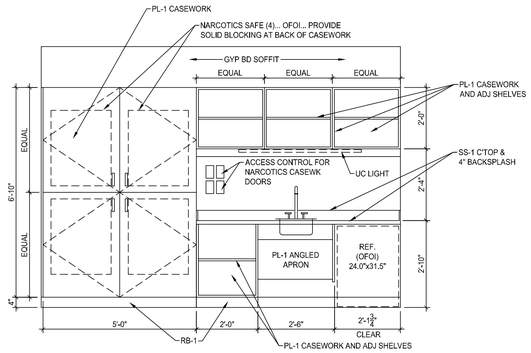
B3	DICTATION - 140
A-700	SCALE: 1/2" = 1'-0"



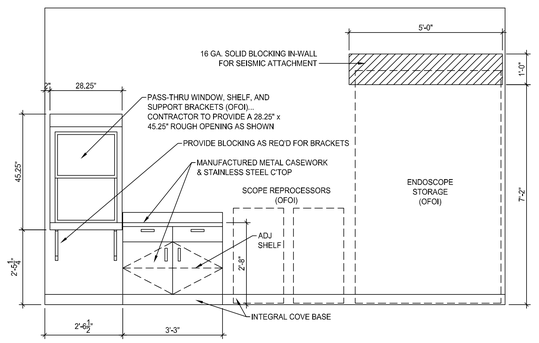
B6	PROCEDURE - 135
A-700	SCALE: 1/2" = 1'-0"



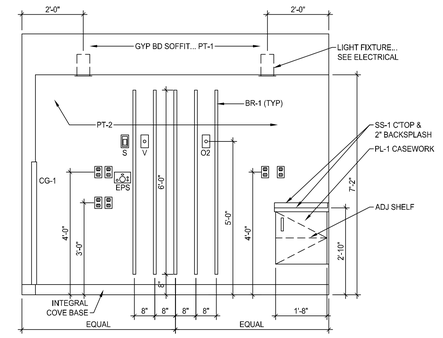
B8	SCOPE DECONTAMINATION - 137A
A-700	SCALE: 1/2" = 1'-0"



D3	MEDICATIONS - 180
A-700	SCALE: 1/2" = 1'-0"



D6	SCOPE CLEAN WORK - 137B
A-700	SCALE: 1/2" = 1'-0"



D9	TYPICAL PREP/RECOVERY BAY
A-700	SCALE: 1/2" = 1'-0"

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GRANDE DUNES A.S.C. RENOVATION - PHASE III

Myrtle Beach, South Carolina

for: HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
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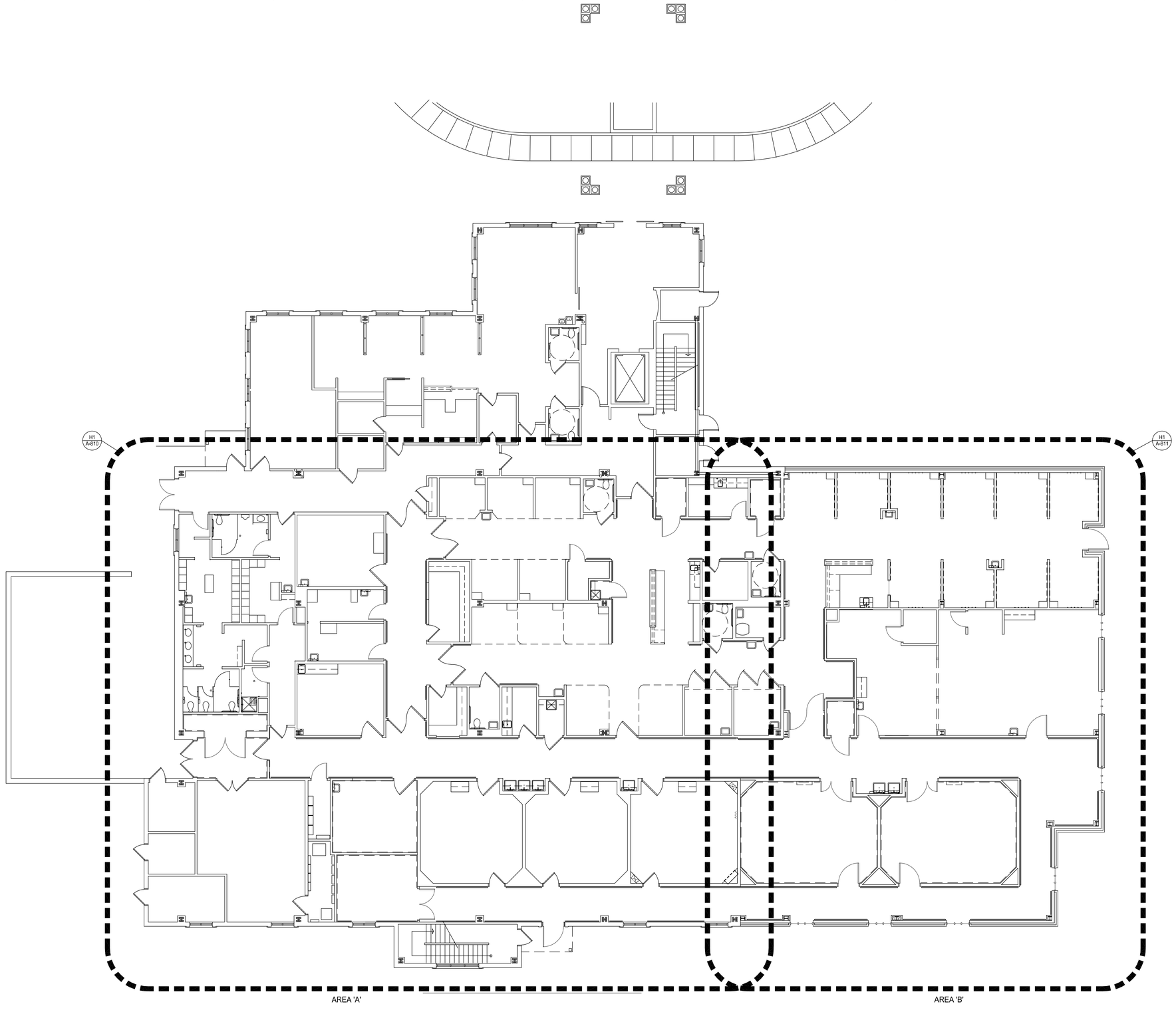
REVISIONS:

TITLE:

INTERIOR ELEVATIONS

SHEET:

A-700



H1 OVERALL FIRST FLOOR FURNITURE + EQUIPMENT PLAN

A800 SCALE: 1/8" = 1'-0"

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PAUL G. DOYLE
MYRTLE BEACH, SC
17389
STATE OF SOUTH CAROLINA
REGISTERED ARCHITECT

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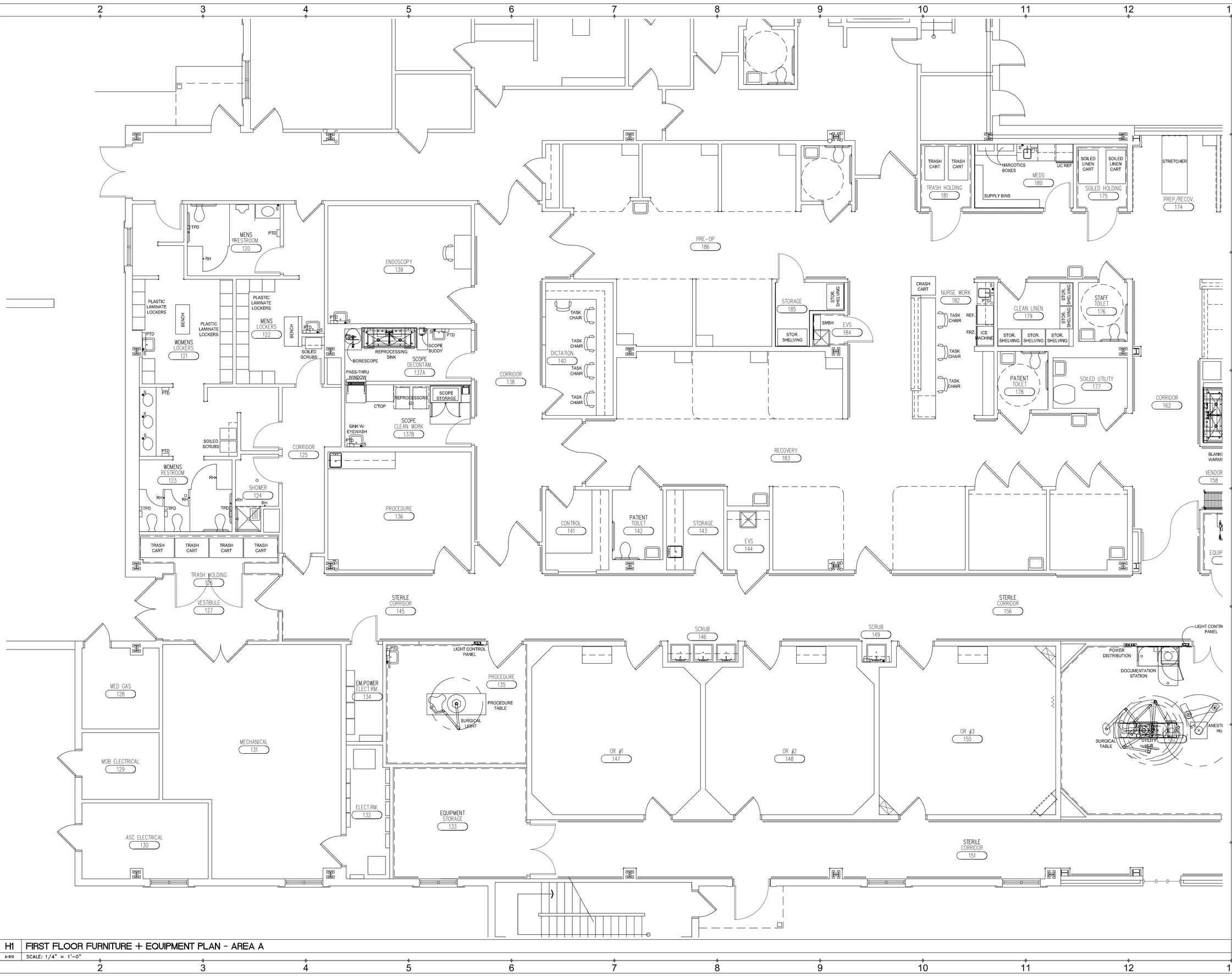
OVERALL FIRST FLOOR FURNITURE & EQUIPMENT PLAN

SHEET:

A-800



H1 FIRST FLOOR FURNITURE + EQUIPMENT PLAN - AREA A

A-810 SCALE: 1/4" = 1'-0"

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PAUL G. DOYLE
MYRTLE BEACH, SC
17389
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for: HCA South Atlantic

PROJECT NO: 22-113

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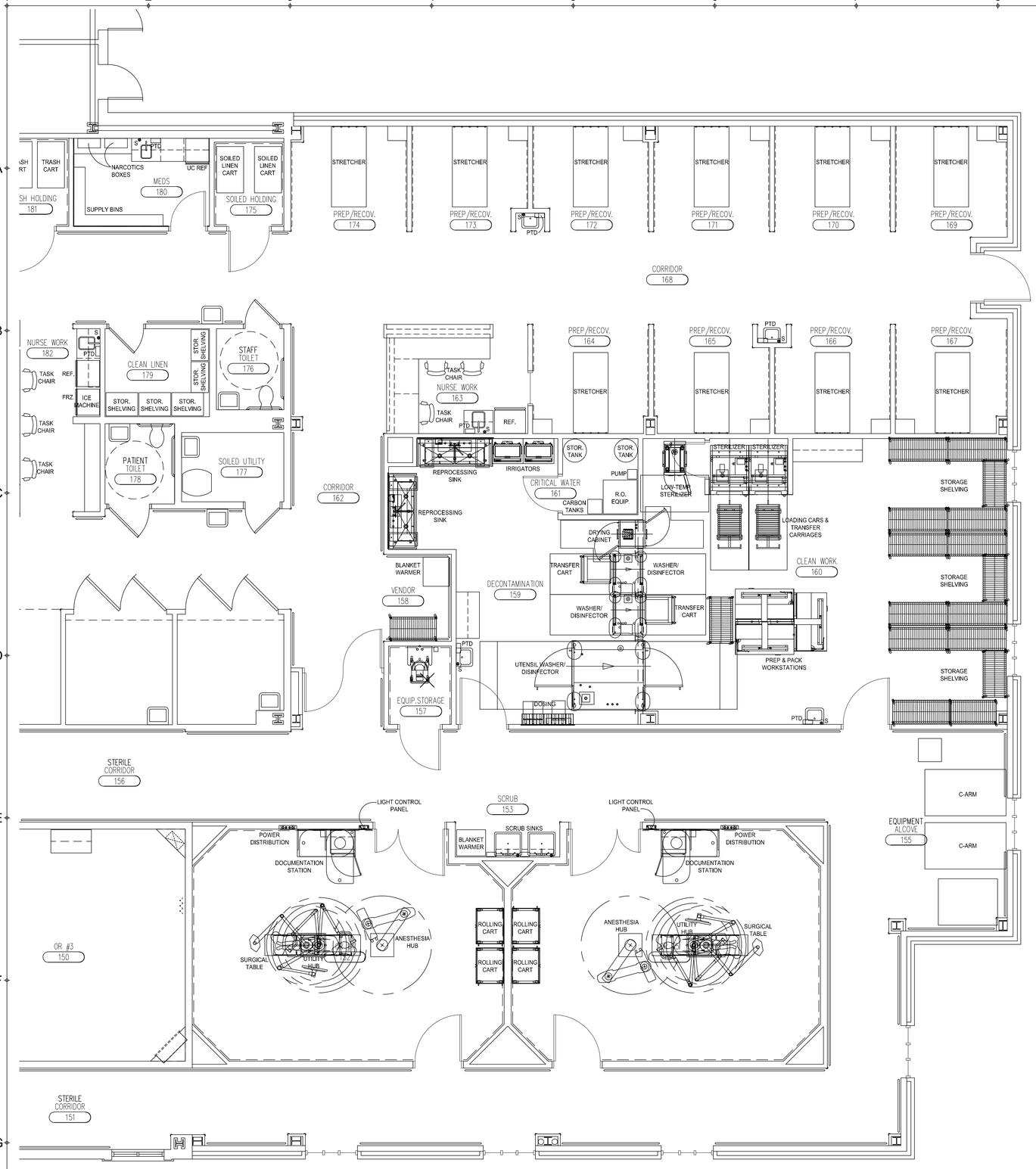
FIRST FLOOR FURNITURE & EQUIPMENT PLAN - AREA 'A'

SHEET:

A-810



H1 FIRST FLOOR FURNITURE + EQUIPMENT PLAN - AREA 'B'

A-811 SCALE: 1/4" = 1'-0"

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Doyle Architecture, LLC Conway, SC No. 101503

STATE OF SOUTH CAROLINA REGISTERED ARCHITECT
PAUL G. DOYLE, JR. MYRTLE BEACH, SC 17389

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Myrtle Beach, South Carolina
for:
HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
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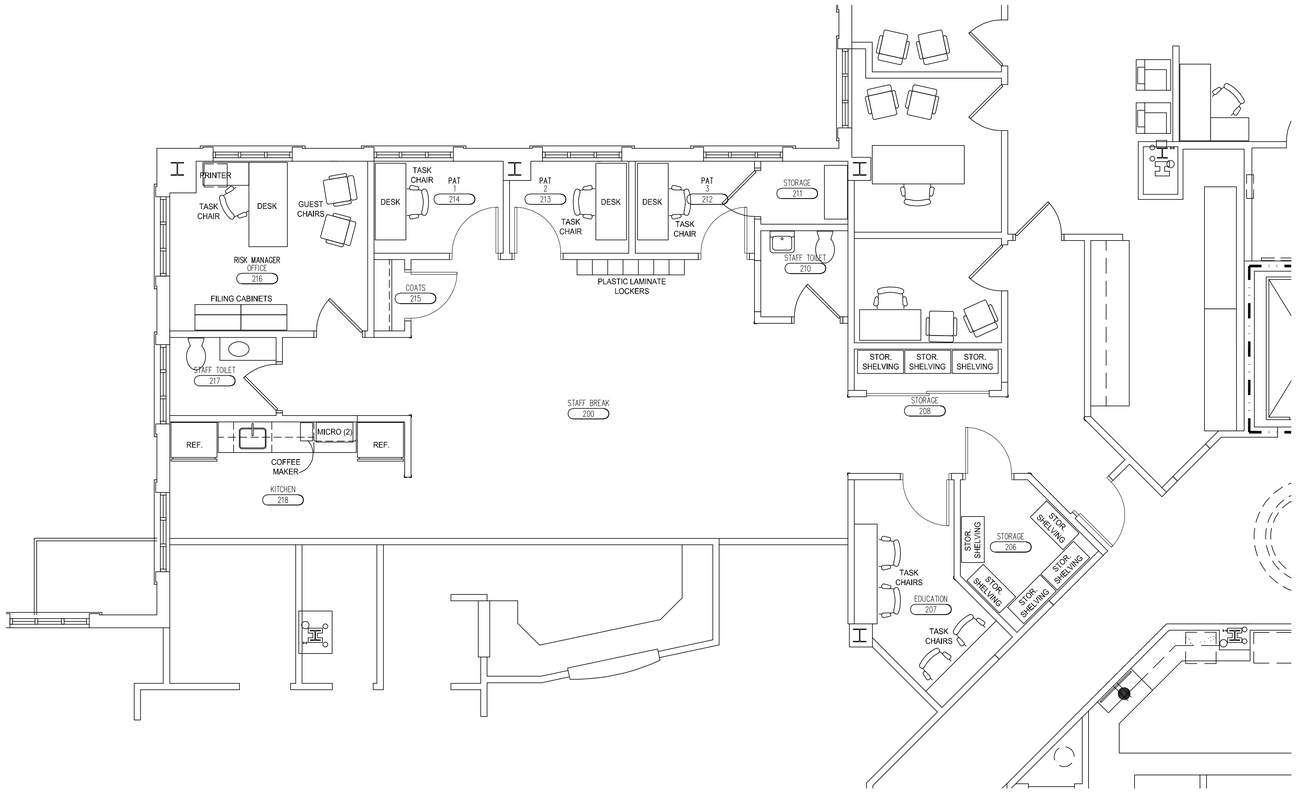
TITLE:
FIRST FLOOR FURNITURE & EQUIPMENT PLAN - AREA 'B'

SHEET:
A-811



D1 SECOND FLOOR FURNITURE + EQUIPMENT PLAN

A-820 SCALE: 1/4" = 1'-0"

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REVISIONS:

TITLE:

SECOND FLOOR FURNITURE & EQUIPMENT PLAN

SHEET:

A-820

LEGEND

- INDICATES EXISTING WALLS
- INDICATES NEW WALLS
- INDICATES DEMO WALLS
- F1 — INDICATES A 8'-0" X 8'-0"X 1'-4" CONC FDN W/ (9)-#5 BARS EACH WAY BOTTOM, TOP OF FOOTING -1'-4" A.F.F.
- F2 — INDICATES A 4'-0" X 4'-0"X 1'-4" CONC FDN W/ (5)-#5 BARS EACH WAY BOTTOM, TOP OF FOOTING -1'-4" A.F.F.
- INDICATES A 2'-6" WIDE SPREAD FOOTING REINF. W/ (3) #5 BARS CONT. BOTTOM W/ 24" LAP AT SPLICES. MATCH EXISTING FOOTING DEPTH.
- 6"-16 GA TYPE CN METAL STUDS @ 16" O.C. SEE DETAIL SHEETS FOR ATTACHMENT
- INDICATES A DIAMOND CONTROL JOINT AT STEEL POSTS.
- C1 — INDICATES A W8x31 STEEL COLUMN. REFERENCE SECTION SHEETS FOR CONNECTIONS SPECIFICATIONS.
- C2 — INDICATES A HSS 6x6x3/8" POST. REFERENCE SECTION SHEETS FOR CONNECTIONS SPECIFICATIONS. SEE SHEET S4.0 FOR BASE PLATE INFO.
- PC1 — INDICATES A W10x33 STEEL PORTAL COLUMN. REFERENCE SECTION SHEETS FOR CONNECTIONS SPECIFICATIONS.
- EP — INDICATES LOCATION OF (3)-#5 48"L EPOXY DOWELS W/ MIN. 10" EMBEDMENT AND 38" LAP SPLICE
- SJ — INDICATES A SLAB ON GRADE SAW JOINT. REF. SHEET S4.0 FOR DETAILS. MAX 12' O.C. E/W
- CJ — INDICATES A SLAB ON GRADE CONTROL JOINT. REF. SHEET S4.0 FOR DETAILS.
- INDICATES A STEP IN FLOOR ELEVATION.

MERGE SPREAD FOOTINGS WITH ISOLATED FOOTINGS, TYPICAL

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315 MAIN STREET, SUITE 2B
CONWAY, SC 29526
843.455.6879

GRANDE DUNES A.S.C. RENOVATION - PHASE III

Myrtle Beach, South Carolina

for: HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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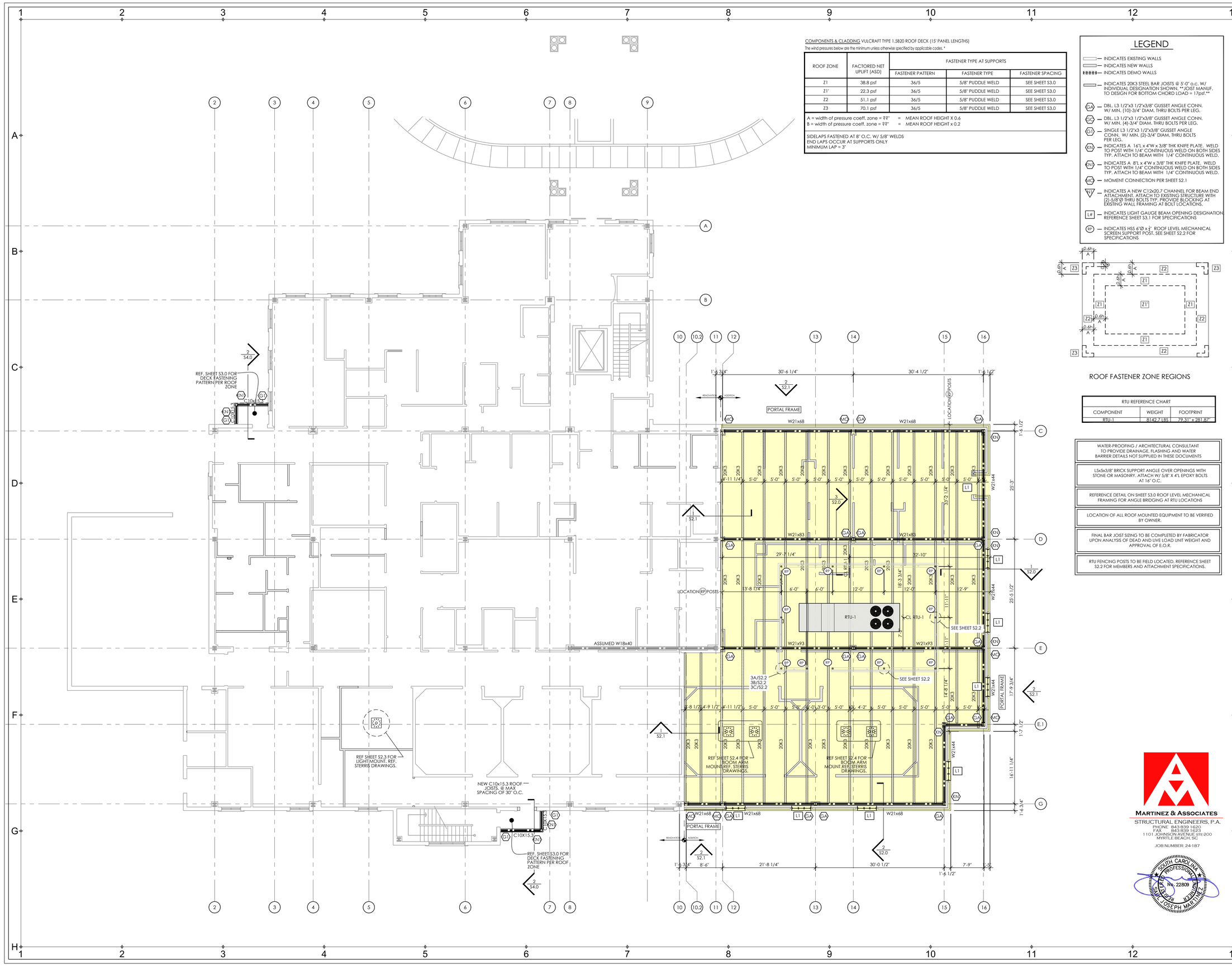
1101 JOHNSON AVENUE, STE.200
MYRTLE BEACH, SC

JOB NUMBER: 24-187

REGISTERED PROFESSIONAL ENGINEER — SOUTH CAROLINA — No. 22809 — JOSEPH MARTINEZ

TITLE:
FOUNDATION PLAN
SCALE: 3/8" = 1'-0"

SHEET:
S1.0



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Myrtle Beach, South Carolina

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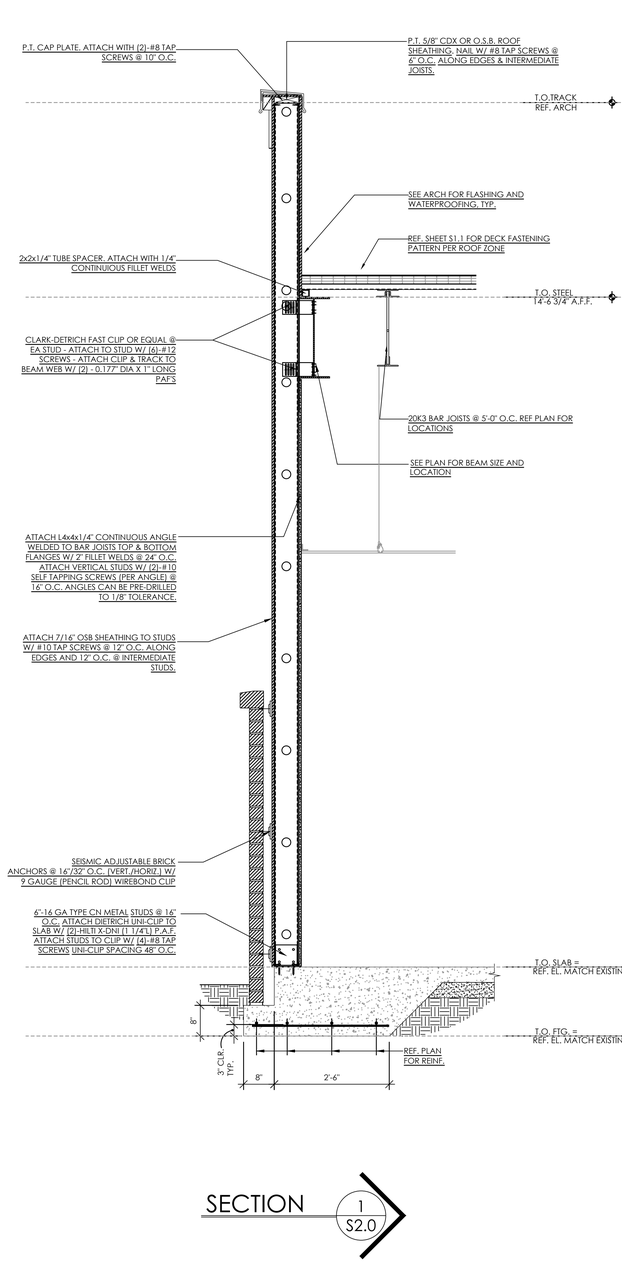
MYRTLE BEACH, SC
JOB NUMBER: 24-187

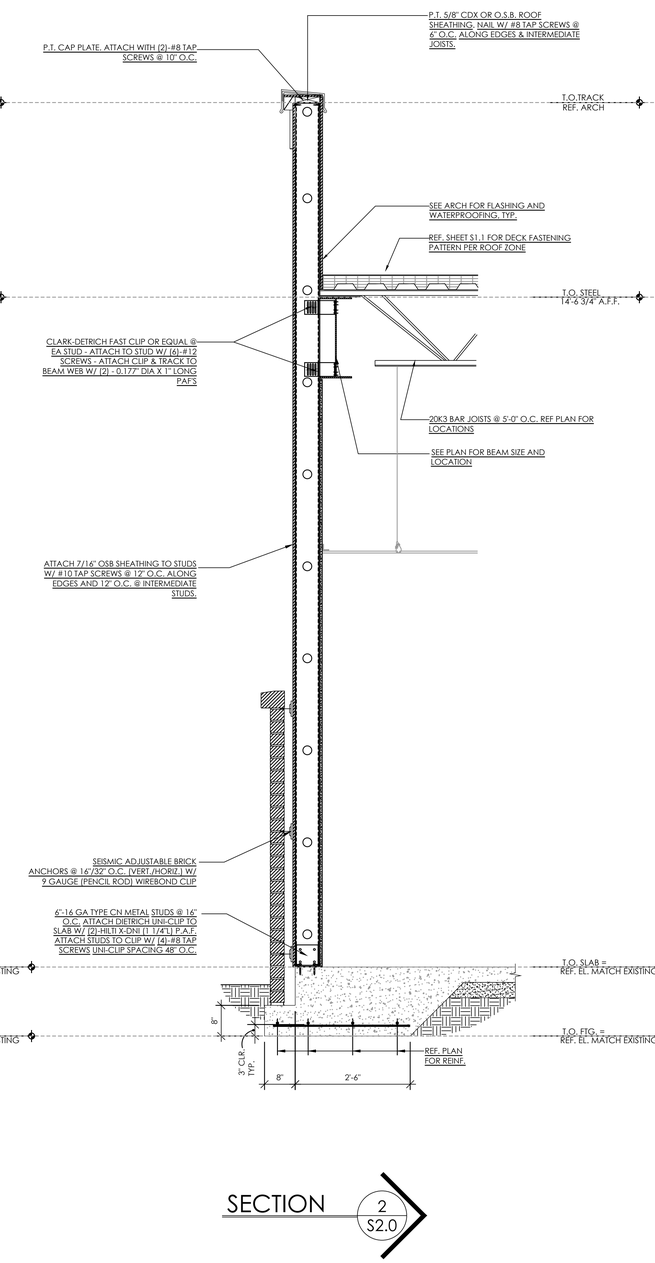
REGISTERED PROFESSIONAL ENGINEER — SOUTH CAROLINA — No. 22809 — JOSEPH MARTINEZ

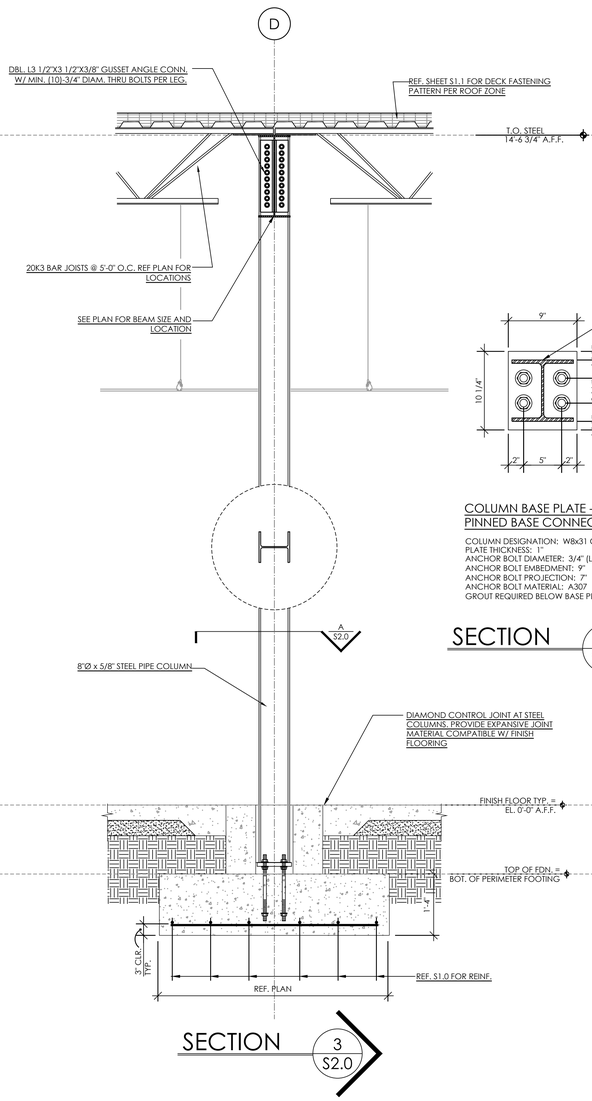
TITLE:
ROOF FRAMING PLAN

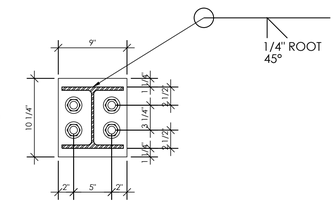
SCALE: 3/8" = 1'-0"

SHEET:
S1.1









COLUMN BASE PLATE - 1
PINNED BASE CONNECTION

COLUMN DESIGNATION: W8x31 COLUMNS
PLATE THICKNESS: 1"
ANCHOR BOLT DIAMETER: 3/4" (LEVELING NUTS BELOW)
ANCHOR BOLT EMBEDMENT: 9"
ANCHOR BOLT PROJECTION: 7"
ANCHOR BOLT MATERIAL: A307
GROUT REQUIRED BELOW BASE PLATE!!!!

SECTION A S2.0

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Myrtle Beach, South Carolina

for: HCA South Atlantic

PROJECT NO: 22-113

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Construction Documents

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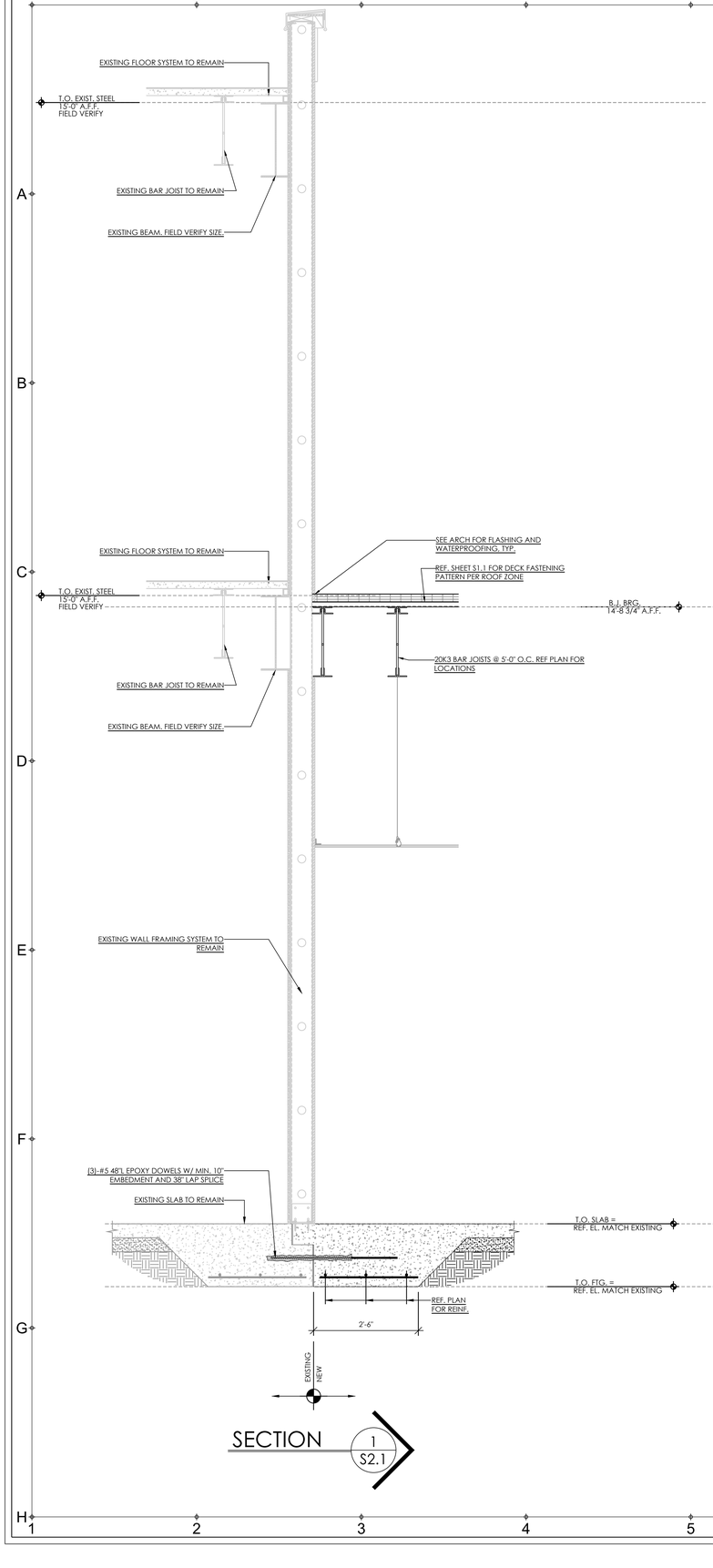
MYRTLE BEACH, SC

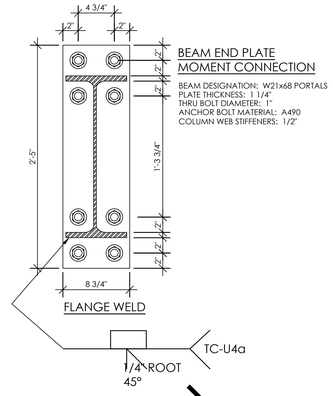
JOB NUMBER: 24-187

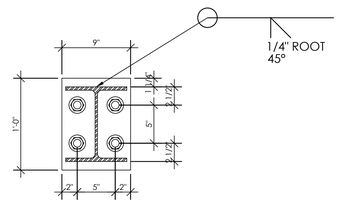
SOUTH CAROLINA PROFESSIONAL ENGINEER No. 22809 JOSEPH MARTINEZ

TITLE:
BUILDING SECTIONS
SCALE: 3/4" = 1'-0"

SHEET:
S2.0

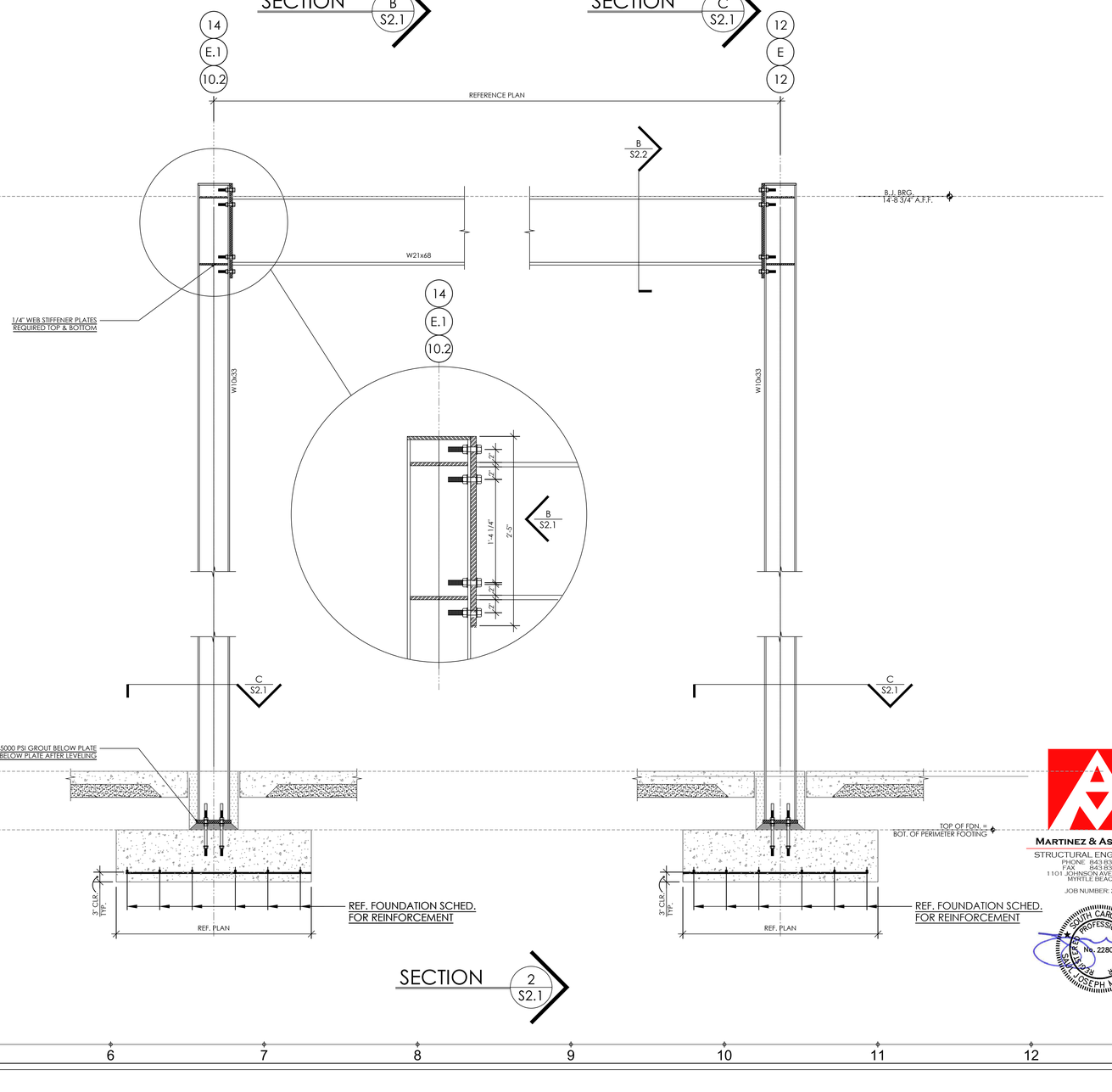






SECTION B S2.1

SECTION C S2.1



SECTION 2 S2.1

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Myrtle Beach, South Carolina

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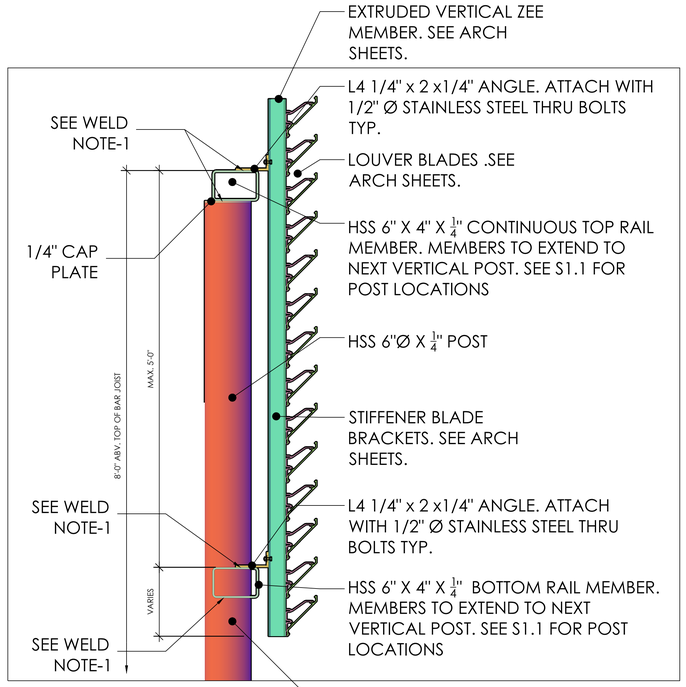
MYRTLE BEACH, SC

JOB NUMBER: 24-187

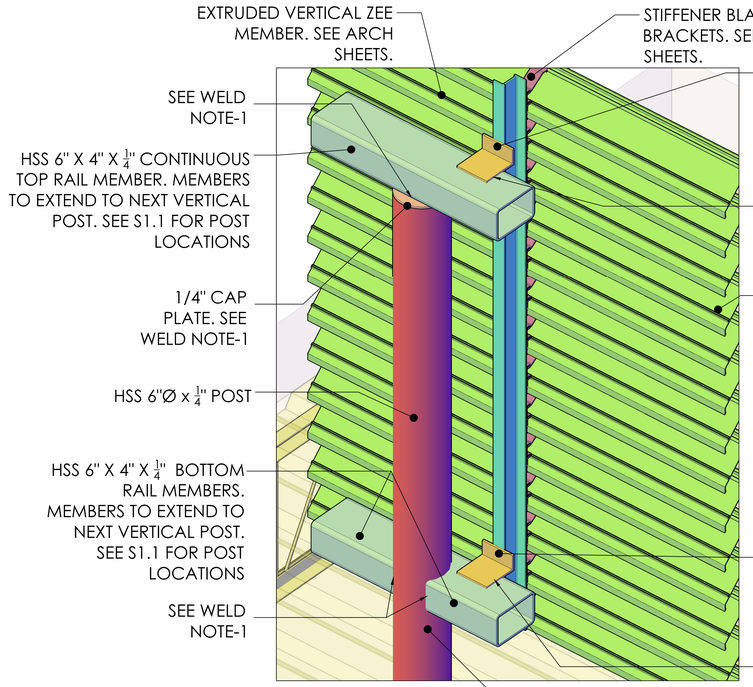
SOUTH CAROLINA PROFESSIONAL ENGINEER No. 22809 JOSEPH MARTINEZ

TITLE:
BUILDING SECTIONS
SCALE: 3/4" = 1'-0"

SHEET:
S2.1

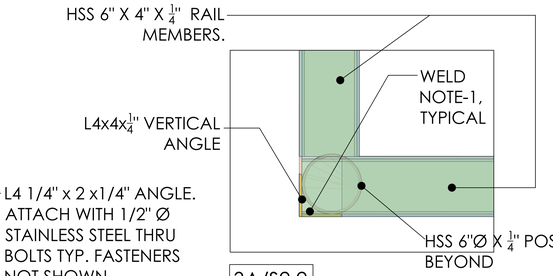


1/S2.2
SECTION VIEW
SCALE : 1 1/2" = 1'-0"

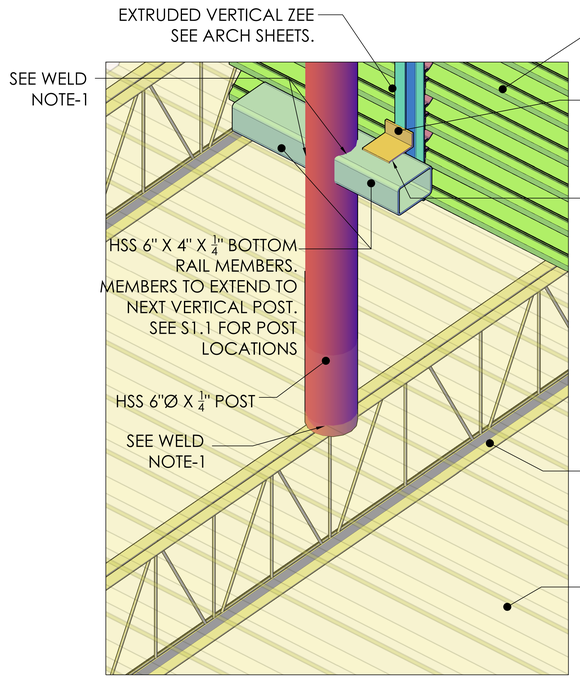


2/S2.2
SECTION VIEW
SCALE : 1 1/2" = 1'-0"

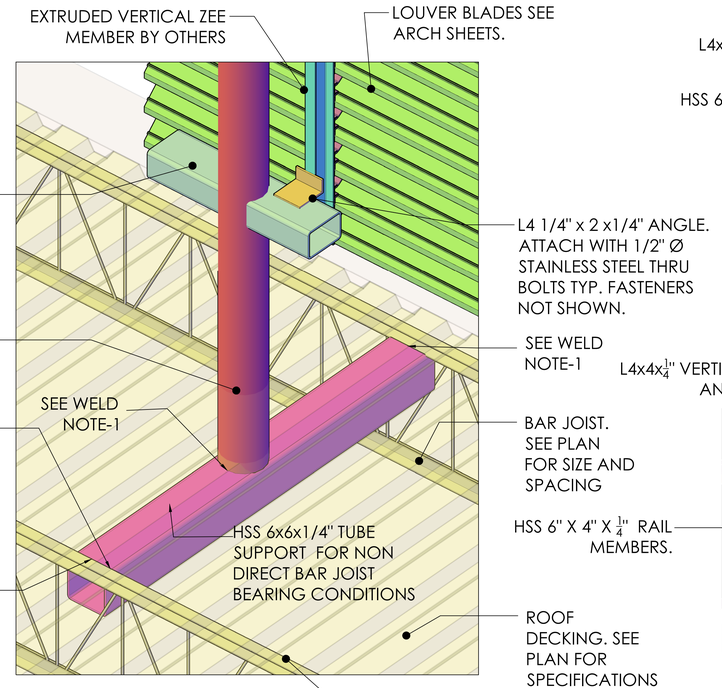
WELD NOTE-1:
ALL WELDS THIS SHEET TO BE 1/4" ALL AROUND FIELD FILLET WELDS, U.N.O.



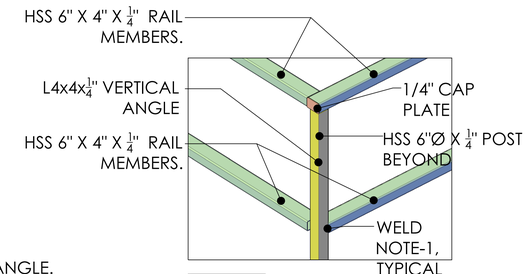
3A/S2.2
RAIL POST CORNER CONNECTION-TOP VIEW
SCALE : N.T.S.
[LOUVERS NOT SHOWN FOR CLARITY]



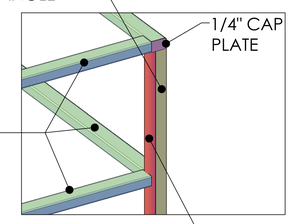
A/S2.2
RAIL POST CONNECTION OPTION
SCALE : 1 1/2" = 1'-0"



B/S2.2
RAIL POST CONNECTION OPTION
SCALE : 1 1/2" = 1'-0"



3B/S2.2
RAIL POST CORNER CONNECTION-ISO VIEW-1
SCALE : N.T.S.
[LOUVERS NOT SHOWN FOR CLARITY]



3C/S2.2
RAIL POST CORNER CONNECTION-ISO VIEW-2
SCALE : N.T.S.
[LOUVERS NOT SHOWN FOR CLARITY]

SHERWIN-WILLIAMS

PRIMER: B58T00101
MACROPOXY 920 PRE-PRIMER (TRANSPARENT)

PRIMER (PART A): B67V00005
RECOATABLE EPOXY PRIMER HARDENER (GRAY)

INTERMEDIATE COAT: (PART B): B58W00610 646 FAST CURE EPOXY (MILL WHITE)

(2) - TOP COATS: B65W00611 - ACROLON 218 HS POLYURETHANE - GLOSS (EXTRA WHITE)

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Myrtle Beach, South Carolina
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PROJECT NO: 22-113

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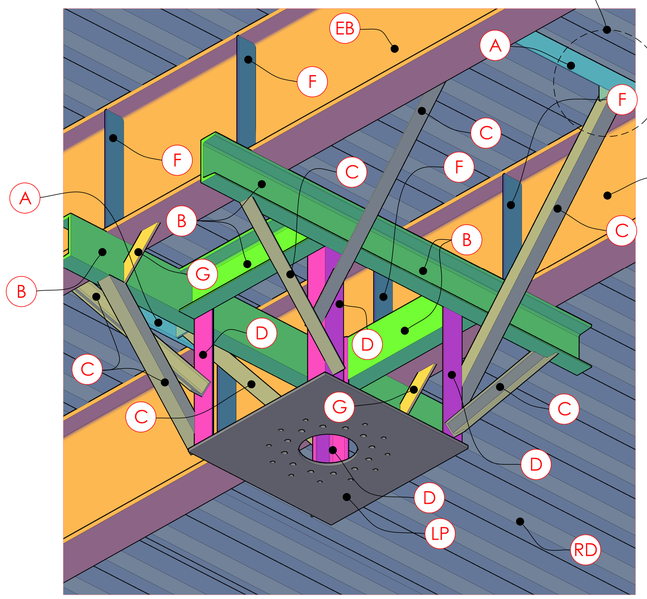
MYRTLE BEACH, SC

JOB NUMBER: 24-187

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 22805
ROBERT JOSEPH MARTINEZ

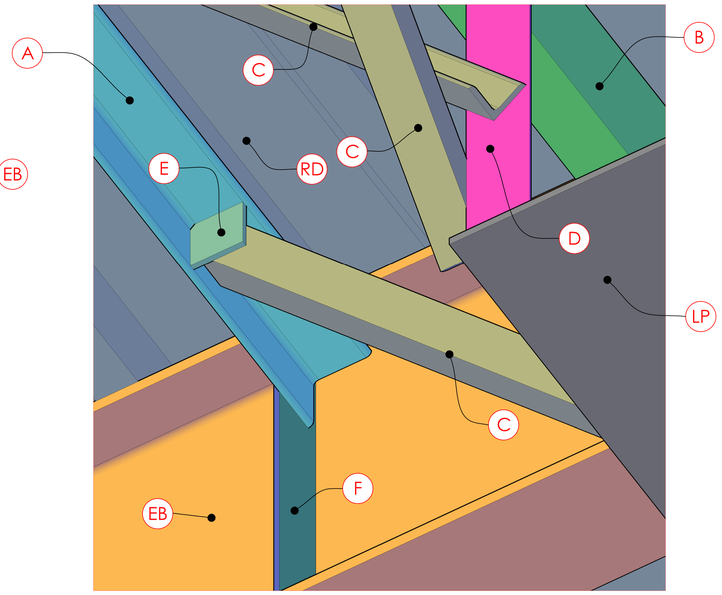
TITLE:
BUILDING SECTIONS
SCALE: 3/4" = 1'-0"

SHEET:
S2.2



VIEW A/S2.3

VIEW B/S2.3
TYPICAL



VIEW B/S2.3

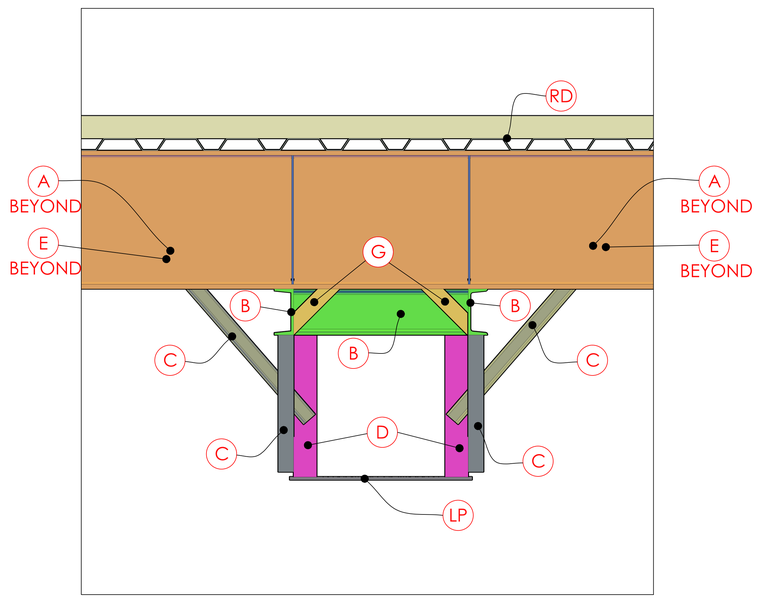
LEGEND

- LP – INDICATES LIGHT MOUNT PLATE. SEE MANUF. DRAWINGS FOR PLATE INFO.
- EB – INDICATES EXISTING BEAM OR BAR JOIST
- RD – INDICATES EXISTING 1.5B METAL ROOF DECKING
- A – INDICATES AN L3x3x1/4" BRACE ANGLE
- B – INDICATES AN MC6x12 SUPPORT CHANNEL
- C – INDICATES AN L2x2x1/4" BRACE ANGLE
- D – INDICATES AN L3x3x5/16" VERTICAL LEG
- E – INDICATES A 2x2x1/4" ATTACHMENT PLATE
- F – INDICATES A 2"x1/4" THK ATTACHMENT PLATE. LENGTH VARIES PER CONDITION.
- G – INDICATES A 2"x1/4" THK GUSSET PLATE. LENGTH VARIES PER CONDITION.

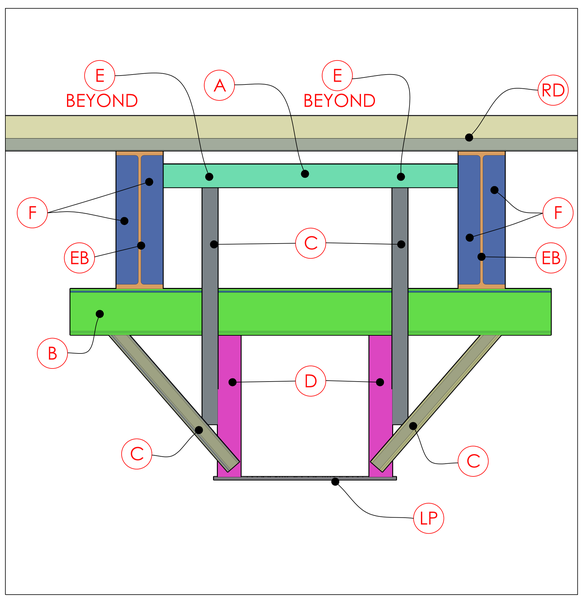
TYP. CONTINUOUS FIELD 1/4" FILLET WELD AT CONNECTION POINTS U.N.O.

REFERENCE STERRIS MANUFACTURES DESIGN DRAWINGS FOR ADDITIONAL COMPONENT SPECIFICATIONS

IF BAR JOISTS ARE PRESENT I.L.O. BEAMS UTILIZE DETAIL ON SHEET S2.4 FOR ATTACHMENT



VIEW C/S2.3



VIEW D/S2.3

STERRIS

STERRIS CEILING MOUNTED LIGHT BOOM ARM. REFERENCE MANUF. DRAWINGS.

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JOB NUMBER: 24-187

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No. 22809
JOSEPH MARTINEZ

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Myrtle Beach, South Carolina
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PROJECT NO: 22-113

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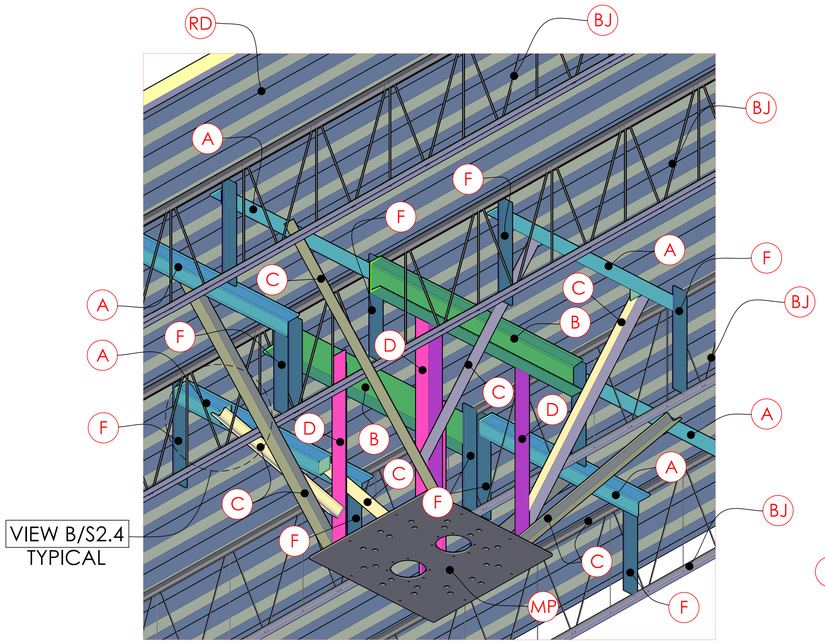
REVISIONS:

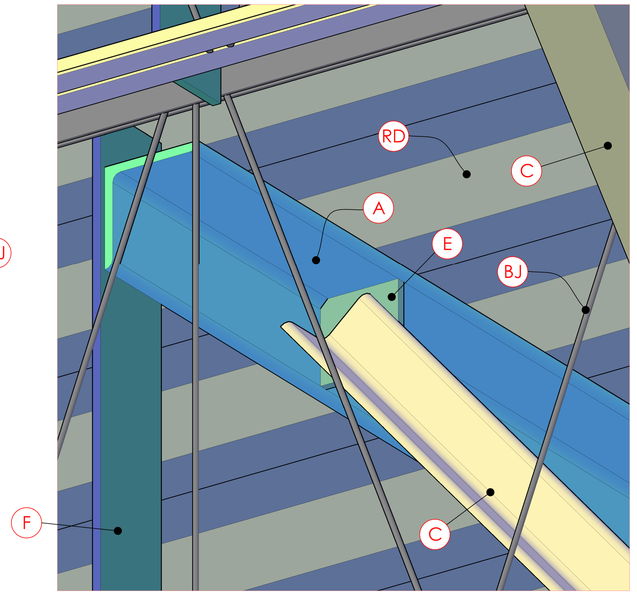
TITLE:
BUILDING SECTIONS
SCALE: 3/4" = 1'-0"

SHEET:
S2.3



VIEW B/S2.4
TYPICAL

VIEW A/S2.4



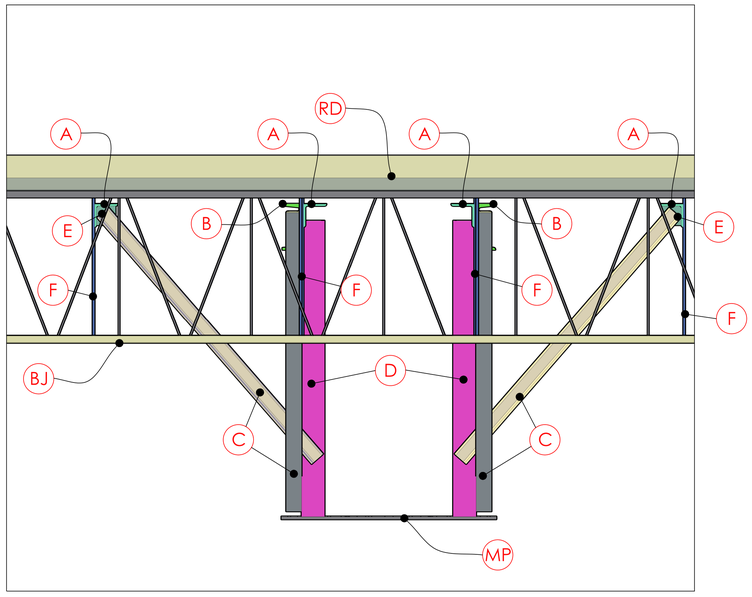
VIEW B/S2.4

LEGEND

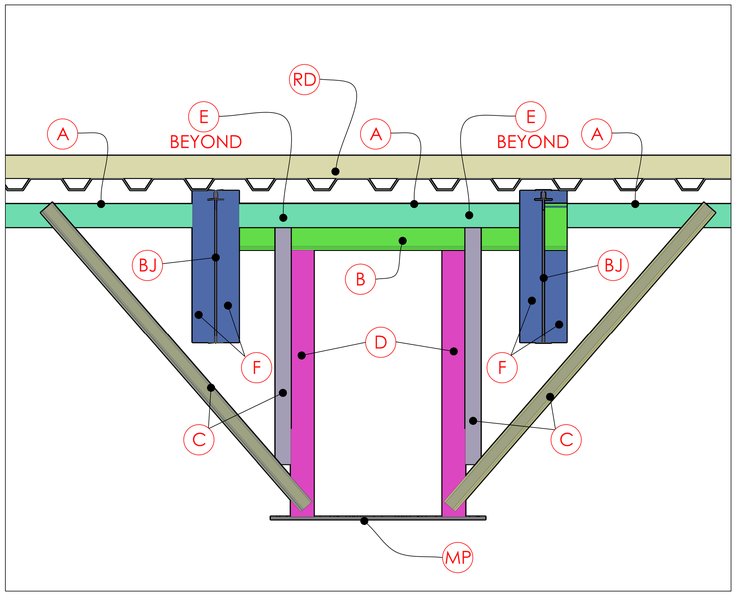
- MP – INDICATES MOUNT PLATE. SEE MANUF. DRAWINGS FOR PLATE INFO.
- BJ – INDICATES BAR JOIST. REF. SUPPLEMENTAL SHEETS FOR BAR JOIST INFO.
- RD – INDICATES EXISTING 1.5B METAL ROOF DECKING
- A – INDICATES AN L3x3x1/4" BRACE ANGLE
- B – INDICATES AN MC6x12 SUPPORT CHANNEL
- C – INDICATES AN L2x2x1/4" BRACE ANGLE
- D – INDICATES AN L3x3x5/16" VERTICAL LEG
- E – INDICATES A 2x2x1/4" ATTACHMENT PLATE
- F – INDICATES A 2"x1/4" THK ATTACHMENT PLATE. LENGTH VARIES PER CONDITION.

TYP. CONTINUOUS FIELD 1/4" FILLET WELD AT CONNECTION POINTS U.N.O.

REFERENCE STERRIS MANUFACTURES DESIGN DRAWINGS FOR ADDITIONAL COMPONENT SPECIFICATIONS



VIEW C/S2.4



VIEW D/S2.4

STERIS

STERRIS SINGLE AND TANDEM CEILING MOUNTED ANESTHESIA BOOM ARMS. REFERENCE MANUF. DRAWINGS.

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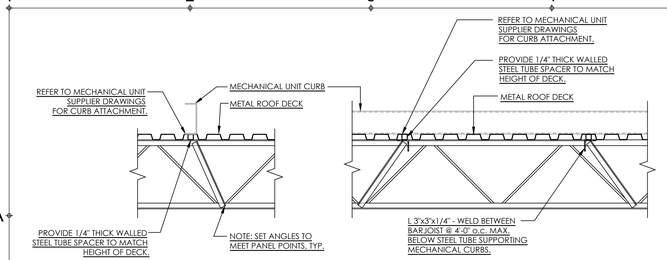
MYRTLE BEACH, SC

JOB NUMBER: 24-187

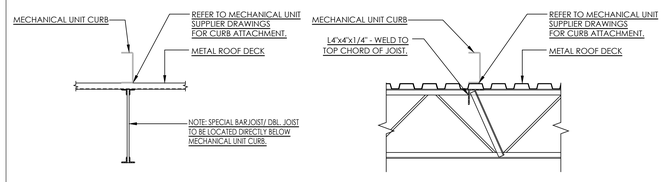
SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 22809
SEAL
JOSEPH MARTINEZ

TITLE:
BUILDING SECTIONS
SCALE: 3/4" = 1'-0"

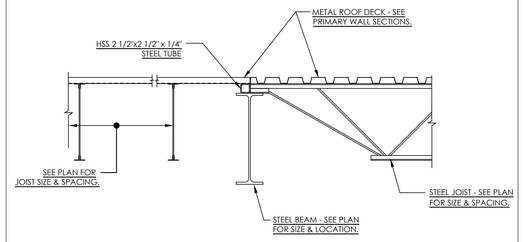
SHEET:
S2.4



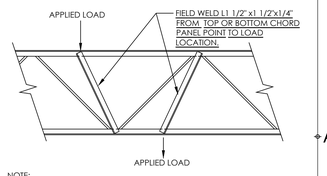
TYPICAL MECHANICAL UNIT CURB SUPPORT DETAIL



TYPICAL MECHANICAL UNIT CURB SUPPORT DETAIL

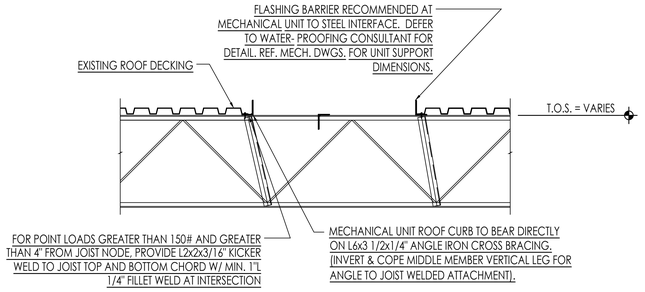


TYPICAL DECK TRANSITION DETAIL

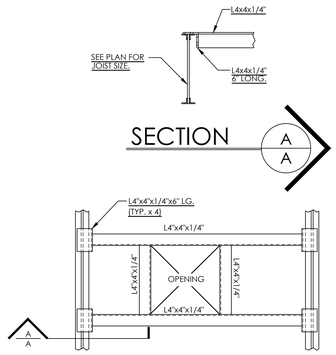


NOTE:
TYPICAL FOR ALL JOIST SUPPORTING ANY LOAD FROM TOP OR BOTTOM CHORD BETWEEN PANEL POINTS. VERIFY LOCATION AND LOADS W/ MECHANICAL, ARCHITECTURAL AND ELECTRICAL DRAWINGS.

TYPICAL JOIST MODIFICATION AT CONCENTRATED LOAD DETAIL



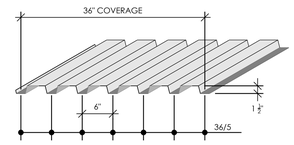
ROOF LEVEL MECHANICAL / R.T.U. FRAMING



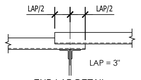
TYP. ROOF PENETRATION FRAMING

NOTE:
CONTRACTOR SHALL INSTALL A 1/4" THICK PLATE FOR FULL WIDTH OF THE SUPPORTING BAR JOIST(S) AND BEAM(S) AS NEEDED TO PROVIDE CONTINUOUS BEARING FOR SUPPORT CURBS. FRAMING NOT REQUIRED FOR PENETRATIONS 12"x12" OR 12" DIAMETER AND SMALLER.

1-1/2" 20 GAUGE TYPE "B" ROOF DECK

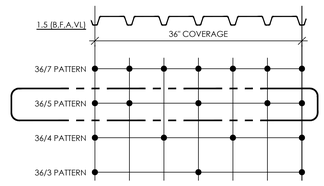


SEE GENERAL NOTES, SHEET S1.1 FOR SUPPORT ATTACHMENT INFORMATION



END LAP DETAIL

END LAPS ARE TO OCCUR AT SUPPORTS ONLY.



NOTE:
PROVIDE THE FOLLOWING HILTI FASTENERS PER APPLICATION FOR ROOF DECK ATTACHMENT. PROVIDE 5 SIDE-LAP FASTENERS PER SPAN. SIDE-LAP FASTENERS TO BE #10 TEK-SCREWS.

FASTENER TYPE: *	BASE MATERIAL:
X-EDN19THQ12	MISCELLANEOUS STEEL AND BARJOIST THICKNESS ≥3/16" AND ≤ 3/8"
X-EDNK22THQ12	BARJOIST THICKNESS > 1/8" AND < 1/4"
X-ENP-19 L15	STRUCTURAL STEEL AND HEAVY BARJOIST THICKNESS ≥ 1/4"
ENPH2-21 L15	HARDENED STRUCTURAL STEEL THICKNESS ≥ 1/4"

* REFERENCE IS MADE TO HILTI NORTH AMERICA PRODUCT TECHNICAL GUIDE EDITION 21.

TYPICAL FASTENER PATTERN FOR ROOF DECK

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GRANDE DUNES A.S.C.
RENOVATION - PHASE III
Myrtle Beach, South Carolina
for:
HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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REVISIONS:

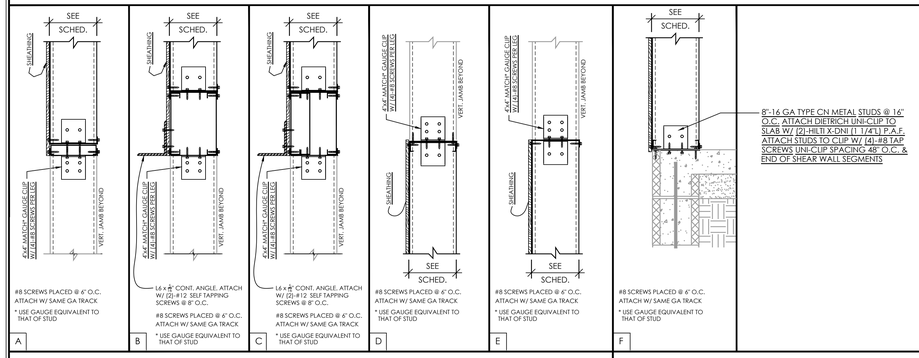
TITLE:
ROOD DECK DETAILS
SCALE: 3/4" = 1'-0"

SHEET:
S3.0

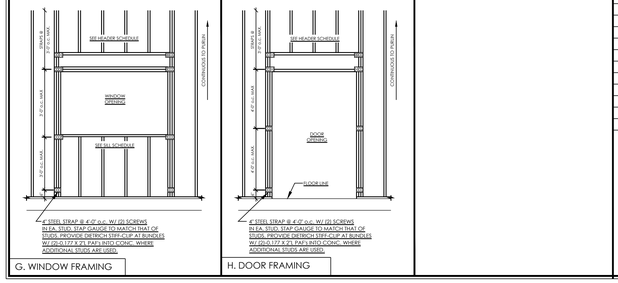
BUILDING DOOR/WINDOW OPENINGS SCHEDULE

MARK	JAMB DESCRIPTION	SEE TABLE	HEADER DESCRIPTION	SEE TABLE	SILL DESCRIPTION	OPENING WIDTH	SEE TABLE
L1	(3) 6" - 16GA KING(s) / (1) 6" JACK(s)	DIAGRAM G	(2) 8" - 16 GAUGE METAL STUD W/ TRACKS	DIAGRAM B	(1) 6" - 16 GAUGE METAL STUD W/ TRACK	REF. ARCH	DIAGRAM F
L2	(1) 6" - 16GA KING(s) / (1) 6" JACK(s)	DIAGRAM H	(2) 8" - 16 GAUGE METAL STUD W/ TRACKS	DIAGRAM B	N/A	REF. ARCH	N/A
L3	(5) 6" - 16GA KING(s) / (2)-6" JACK(s)	DIAGRAM G	(3) 10" - 16 GAUGE METAL STUD W/ TRACKS	DIAGRAM C	(1) 6" - 16 GAUGE METAL STUD W/ TRACK	REF. ARCH	DIAGRAM F
L4	(5) 6" - 16GA KING(s) / (2)-6" JACK(s)	DIAGRAM H	(3) 10" - 16 GAUGE METAL STUD W/ TRACKS	DIAGRAM C	N/A	REF. ARCH	N/A
L5	(2) 6" - 16GA KING(s) / (1)-6" JACK(s)	DIAGRAM H	(2) 8" - 16 GAUGE METAL STUD W/ TRACKS	DIAGRAM B	N/A	REF. ARCH	N/A
L6	(2) 8" - 18GA KING(s) / NO JACK(s)	DIAGRAM G	(1) 8" - 16 GAUGE NESTED METAL STUD W/ TRACK	DIAGRAM A	(1) 6" - 16 GAUGE METAL STUD W/ TRACK	REF. ARCH	DIAGRAM F

HEADER/SILL DIAGRAMS



TYPICAL METAL STUD FRAMING DIAGRAMS



SSMA TECHNICAL INFORMATION

6" - 18 GAUGE METAL STUD	600 S 137-43
6" - 16 GAUGE METAL STUD	600 S 137-54
6" - 14 GAUGE METAL STUD	600 S 137-68
8" - 18 GAUGE METAL STUD	800 S 137-43
8" - 16 GAUGE METAL STUD	800 S 137-54
8" - 14 GAUGE METAL STUD	800 S 137-68
6" - 18 GAUGE METAL TRACK	600 T 137-43
8" - 18 GAUGE METAL TRACK	800 T 137-43
8" - 16 GAUGE METAL TRACK	800 T 137-54
8" - 14 GAUGE METAL TRACK	800 T 137-68

LIGHT GAUGE STEEL MATERIAL SIZING CHART

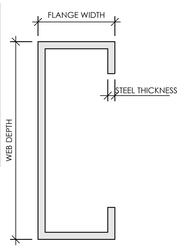
MEMBER SIZE	DESIGNATION
1 5/8"	162
2 1/2"	250
3 1/2"	350
3 5/8"	362
4"	400
5 1/2"	550
6"	600
7 1/4"	725
8"	800
9 1/4"	925
10"	1000
11 1/2"	1150
12"	1200

MEMBER DEPTH:
(EXAMPLE: 6" = 600 x 1/100 INCHES)
ALL MEMBER DEPTHS ARE TAKEN IN 1/100 INCH. FOR ALL "T" SECTIONS, MEMBER DEPTH IS INSIDE TO INSIDE DIMENSION.

STEEL THICKNESS REFERENCE CHART			
GAGE NO.	MIL THICKNESS	DESIGN (IN.)	MINIMUM (IN.)
25	18	0.0188	0.0179
22	27	0.0283	0.0269
20	33	0.0346	0.0329
18	43	0.0451	0.0428
16	54	0.0566	0.0538
14	68	0.0713	0.0677
12	97	0.1017	0.0966

FLANGE WIDTH	DESIGNATION
1 1/4"	125
1 3/8"	137
1 1/2"	150
1 5/8"	162
2"	200
2 1/2"	250

FLANGE WIDTH:
(EX: 1 5/8" = 1.625 = 162 x 1/100 INCHES)
ALL FLANGE WIDTHS ARE TAKEN IN 1/100 INCHES



EXAMPLE:

MEMBER DEPTH:
*(Example: 6" = **600** × 1/100 inches)*
All member depths are taken in 1/100 inches. For all "T" sections member depth is the inside to inside dimension.

FLANGE WIDTH:
*(Example: 1 5/8" = 1.625" = **162** × 1/100 inches)*
All flange widths are taken in 1/100 inches.

600 S 162 - 54

STYLE:
*(Example: Stud or Joist section = **S**)*
The four alpha characters utilized by the designator system are:
S = Stud or Joist Sections
T = Track Sections
U = Channel Sections
F = Furring Channel Sections

MATERIAL THICKNESS:
*(Example: 0.054 in. = **54** mils; 1 mil = 1/1000 in.)*
Material thickness is the minimum base metal thickness in mils. Minimum base metal thickness represents 95% of the design thickness.

Note: For those sections where two different yield strengths (33 ksi and 50 ksi) are shown, the yield strength used in the design, if greater than 33 ksi, needs to be identified on the design and ordering of steel. (i.e., 600S162-54 (50 ksi))

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JOSEPH MARTINEZ

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RENOVATION - PHASE III
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PROJECT NO: 22-113

DATE: January 6, 2025
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REVISIONS:

TITLE:
LIGHT GAUGE FRAMING SPECS.
SCALE: 3/4" = 1'-0"

SHEET:
S3.1

CONSTRUCTION NOTES

1. ALL THE NOTES, DRAWINGS, AND DETAILS SHALL BE PROPERLY INTERPRETED BY THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS RESPONSIBLE FOR WORK OUTLINED BY THESE DRAWINGS. THE STRUCTURAL ENGINEER OF RECORD FOR THESE DOCUMENTS WILL PROVIDE THE NECESSARY INFORMATION FOR THE PROPER INTERPRETATION OF STRUCTURAL DATA.

2. THE CONTRACTOR SHALL FIELD VERIFY ALL DRAWING DIMENSIONS AND NOTIFY THE LEAD ARCHITECT AND/OR STRUCTURAL ENGINEER OF ANY NOTED DISCREPANCIES BETWEEN DRAWINGS.

3. UNLESS SPECIFIC DETAILS ARE PROVIDED BY THE STRUCTURAL ENGINEER, THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROPER CONFIGURATION AND ERECTION OF TEMPORARY SHORING AND BRACING. THE CONTRACTOR SHOULD TAKE CONSIDERABLE CARE IN MAINTAINING THE INTEGRITY OR STABILITY OF THE STRUCTURE THROUGHOUT THE DURATION OF THE CONSTRUCTION.

4. THE CONTRACTOR MUST MAINTAIN AND DISTRIBUTE SHOP DRAWINGS TO THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION. FAILURE OF THE CONTRACTOR TO SUBMIT SHOP DRAWINGS MAY RESULT IN THE REMOVAL AND REPLACEMENT OF NON-APPROVED BUILDING ELEMENTS AT THE EXPENSE OF THE CONTRACTOR. THE CONTRACTOR SHOULD ALLOW 10 WORKING DAYS FOR THE APPROVAL OF SHOP DRAWINGS.

5. THE ORIGINATORS OF SHOP DRAWINGS MAY NOT REPRODUCE DESIGN DRAWINGS FOR THE PURPOSE OF SHOP DRAWING APPROVAL UNLESS GRANTED PERMISSION TO DO SO BY THE STRUCTURAL ENGINEER OF RECORD.

6. ALL HANDRAILS, STAIRS, OR BUILDING ELEMENT DESIGNED BY INTERESTS OTHER THAN THE STRUCTURAL ENGINEER OF RECORD, MUST BE SEALED BY THE RESPONSIBLE ENGINEER AND SUBMITTED TO THE CONTRACTOR FOR RECORDING PURPOSES.

7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT ALL BUILDING ELEMENTS ARE NOT SUBJECT TO LOADS GREATER THAN THOSE ALLOWED BY THE DESIGN LOAD TABLE.

8. THE CONTRACTOR MUST OBTAIN WRITTEN PERMISSION BY THE STRUCTURAL ENGINEER BEFORE DEVIATING FROM INSTRUCTIONS PROVIDED BY THE DESIGN DOCUMENTS.

9. DETAILS PROVIDED IN THESE DOCUMENTS MAY BE TYPICAL TO MULTIPLE LOCATIONS THROUGHOUT THE BUILDING AND SHOULD BE REPEATED AS APPLICABLE.

10. THE ENGINEER RESERVES THE AUTHORITY TO MODIFY THE BUILDING STRUCTURAL ELEMENTS AS NEEDED WHEN LOADING CONDITIONS ARE ALTERED FOLLOWING THE DESIGN PROCESS.

11. ALL EXISTING PROJECT CONDITIONS MUST BE VERIFIED BY THE CONTRACTOR INCLUDING DIMENSIONS AND CONDITIONS. DESIGN DRAWING SPECIFICATIONS FOUND TO BE IN CONFLICT WITH EXISTING CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER.

12. QUESTIONS RELATING TO THE INCLUDED STRUCTURAL DRAWINGS MAY BE DIRECTED TO:

MARTINEZ & ASSOCIATES STRUCTURAL ENGINEERS, P.A.
1101 JOHNSON AVENUE STE 200
MYRTLE BEACH, SOUTH CAROLINA 29577
(843) 839-1620 OFFICE
(843) 839-1623 FAX

13. ENGINEERING DRAWINGS ARE PROTECTED BY UNITED STATES GOVERNMENT COPYRIGHT LEGISLATION AND MAY NOT BE REPRODUCED WITHOUT THE WRITTEN PERMISSION OF MARTINEZ & ASSOCIATES STRUCTURAL ENGINEERS, PROFESSIONAL ASSOCIATION.

CONCRETE:

1. ALL CONCRETE AND REINFORCING STEEL MUST BE INSTALLED PER THE CURRENT ADOPTED ISSURE OF THE AMERICAN CONCRETE INSTITUTE BUILDING CODE AND COMMENTARY 318.

2. THE CONTRACTOR IS RESPONSIBLE FOR ALL REINFORCING BARS TO BE SECURED DURING THE PLACEMENT OF CONCRETE. REBAR CHAIRS ARE RECOMMENDED FOR BOTH REINFORCING BARS AND WIRE WELDED MESH REINFORCEMENT IN ORDER TO MAINTAIN THE REQUIRED CLEAR DISTANCE AS REQUIRED BY ACI-318.

3. UNDER NO CIRCUMSTANCES MAY WATER BE ADDED TO THE CONCRETE MIX DURING PLACEMENT WITHOUT THE WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER OF RECORD.

4. UNDER NO CIRCUSTANCES MAY CALCIUM CHLORIDE BE ADDED TO THE CONCRETE MIX.

5. SPECIAL PRECAUTIONS MUST BE TAKEN PER ACI-318 WHEN PLACING CONCRETE DURING HOT (ABOVE 90 DEGREES FAHRENHEIT) OR COLD (BELOW 45 DEGREES FAHRENHEIT) TEMPERATURES. THE CONTRACTOR SHOULD CONSULT THE STRUCTURAL ENGINEER WHEN PLACING CONCRETE IN THESE CONDITIONS.

6. REINFORCING STEEL SHOULD CONFORM TO ASTM A615, GRADE 60.

7. A MINIMUM LAP OF 1'-4" SHOULD BE ACHIEVED WHEN PLACING WELDED WIRE FABRIC.

8. 28 DAY MINIMUM CONCRETE COMPRESSIVE STRENGTHS MUST BE AS FOLLOWS:

FOOTINGS 4000 PSI

9. A MINIMUM OF TWO #5 HORIZONTAL BAR MUST BE WITHIN 0'-6" OF THE TOP AND BOTTOM OF THE WALL PLATE.

WOOD:

1. ALL WOOD FRAMING MEMBERS SHALL BE SPRUCE-PINE-FUR GRADE NO. 2 AS A MINIMUM.

2. ALL LUMBER SHALL BE CONTINUOUS. TOP PLATE SPLICING MAY BE DONE ONLY OVER VERTICAL STUDS AND SPACED A MINIMUM OF 48" APART. BEAM SPLICING MAY ONLY BE DONE WITH THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

3. ALL EXTERIOR WALLS MUST BE SHEATHED WITH A MINIMUM OF 7/16" O.S.B. SHEATHING NAILED WITH 8d NAILS @ 4" O.C. ALONG SHEATHING EDGES AND 6" O.C. ALONG INTERMEDIATE FRAMING MEMBERS. BLOCKING MUST BE PROVIDED ALONG SHEATHING EDGES AND MAY BE TURNED 90 DEGREES IN ORDER TO FACILITATE AN AMPLE NAILING SURFACE FOR BOTH SHEAT EDGES. BUILDINGS WITH COASTAL EXPOSURE (WITHIN 1 MILE OF THE COAST) MUST BE CONNECTED WITH GALVANIZED NAILS.

4. ALL PLYWOOD OR O.S.B. ROOF SHEATHING MUST BE A MINIMUM OF 5/8" AND BE GLUED TO RAFTERS/TRUSSES AND ATTACHED WITH 8d NAILS AT 6" O.C. ALONG SHEATHING EDGES AND 12" O.C. ALONG INTERMEDIATE FRAMING MEMBERS.

5. IN NO CASE SHALL NAILS BE USED IN TENSION. A MINIMUM OF #8 WOOD SCREWS MUST BE USED INSTEAD.

6. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATION OF PRESSURE TREATED WOOD FRAMING MEMBERS.

7. CONNECTORS DIRECTLY IN CONTACT WITH PRESSURE TREATED LUMBER MUST BE COATED WITH AN EQUIVALENT 1.85 OZ./SQ. FT. ZINC COATING. SIMPSON ZMAX(TM) CONNECTORS MUST BE USED IN LIEU OF STANDARD CONNECTORS.

8. NAILS IN CONTACT WITH PRESSURE TREATED LUMBER MUST BE HOT-DIPPED GALVANIZED.

9. FIRST LEVEL SHEARWALLS WITHIN A TWO LEVEL STRUCTURE MUST POSSESS A SINGLE STUD AT THE END OF EACH SHEATHING PIECE FOR FULL ATTACHMENT PER NAILING PATTERN.

10. $\frac{1}{2}$" PLYWOOD SHEATHING MAY BE USED IN LEIU OF $\frac{7}{16}$" O.S.B. SHEATHING.

PRE-MANUFACTURED WOOD TRUSSES:

1. THE ANCHOR POINTS OF ALL ROOF TRUSSES MUST BE ANCHORED WITH SIMPSON META24 ANCHORS OR EQUIVALENT. SIMPSON MGT GIRDER HOLD-DOWNS MAY BE USED AT DOUBLE OR TRIPLE PLY TRUSS GIRDERS.

2. PRE-MANUFACTURED WOOD TRUSS MANUFACTURER TO PROVIDE DETAILS FOR ALL TEMPORARY AND PERMANENT BRACING. THESE DETAILS WILL PROVIDE PERMANENT STABILITY OF THE WOOD TRUSS SYSTEM.

3. WOOD TRUSS SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION.

4. WOOD TRUSS DESIGNS, SHOP DRAWINGS, AND ERECTIONS DETAILS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER.

5. CONTRACTOR MAY USE THE STANDARDS SET FORTH BY THE "TRUSS PLATE INSTITUTE" GUIDELINES OBTAINED FROM THE TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DRIVE, SUITE 200, MADISON, WISCONSIN 53719 PH (608) 833-5900.

6. TRUSS MANUFACTURER TO COORDINATE DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

7. ROOF TRUSSES TO BE DESIGNED FOR

- 150 MPH ULTIMATE / 116 NOMINAL
- TOP CHORD DL = 15 PSF
  LL = 20 PSF

- BOTTOM CHORD DL = 15 PSF
  LL = 20 PSF (NON-STORAGE)
  LL = 30 PSF (ATTIC AREAS)

8. CONTRACTOR TO PLACE TRIPLE WOOD STUDS BENEATH BEARING POINTS OF WOOD TRUSS GIRDERS.

9. CONTRACTOR TO SUBMIT TRUSS SHOP DRAWNGS FOR REVIEW BY ARCHITECT AND ENGINEER PRIOR TO MANUFACTURING.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SPECIFICATIONS ARE AS FOLLOWS:

A. ANCHOR BOLTS	ASTM A325 OR AS SPECIFIED PER DRAWINGS
B. PLATES	ASTM A36
C. STEEL PIPE	ASTM A53, TYPE E OR S, GRADE B, Fy=35 KSI
D. STRUCTURAL TUBING	ASTM A500, GRADE B, Fy=46 KSI
E. WIDE FLANGE SHAPES	ASTM A572, GRADE 50
F. OTHER ROLLED SHAPES	ASTM A36

WELDS ALL AROUND UNLESS OTHERWISE SPEFICIED ON THE DESIGN DRAWINGS. CERTIFIED WELDER TO REFER TO TABLE J2.4 OF THE AISC MANUAL OF STEEL CONSTRUCTION FOR THE MINIMUM SIZE OF FILLET WELDS FOR A PARTICULAR MATERIAL THICKNESS.

3. ALL EXPOSED STEEL MUST BE GROUND SMOOTH AND PAINTED OR GALVANIZED PER THE MANUFACTURER.

4. BOLTED BEAM CONNECTIONS SHALL USE 3/4" DIAMETER A-325 SLIP-CRITICAL BOLTS (U.N.O.) CAPABLE OF DEVELOPING THE UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE MEMBER PER A.I.S.C. SECTION 2 ALLOWABLE LOADS ON BEAMS.

MASONRY:

1. CONCRETE MASONRY UNITS OF TYPE M OR S MORTAR (MINIMUM COMPRESSIVE STRENGTH OF 1500 PSI) SHALL BE USED FOR BOTH AND EXTERIOR AND INTERIOR APPLICATIONS.

2. UNLESS OTHERWISE SPECIFIED, ALL CONCRETE MASONRY UNIT CELLS SHOULD BE FILLED WITH MINIMUM 3000 PSI GROUT OR CONCRETE MIX.

3. THE CONNECTION OF INTERSECTING WALLS SHALL CONFORM TO ONE OF THE FOLLOWING REQUIREMENTS:

a) FIFTY PERCENT OF THE MASONRY UNITS AT THE INTERFACE SHALL INTERLOCK.
b) WALLS SHALL BE REGULARLY TOOTHED WITH 8 in. MAXIMUM OFFSETS AND ANCHORED BY STEEL CONNECTORS MEETING THE FOLLOWING REQUIREMENTS:
   1) MINIMUM SIZE: $\frac{1}{4}$ in. X 1$\frac{1}{2}$ in. x 28 in. INCLUDING 2 in. LONG 90° BEND AT EACH END TO FORM A "U" OR "Z" SHAPE.
   2) MAXIMUM SPACING 4 ft.
c) INTERSECTING BOND BEAMS SHALL BE PROVIDED IN INTERSECTING WALLS AT A MAXIMUM SPACING OF 4 ft. ON CENTERS. BOND BEAMS SHALL BE REINFORCED AND THE AREA OF REINFORCEMENT SHALL NOT BE LESS THAN 0.1 in2 PER ft. OF WALL. REINFORCEMENT SHALL BE DEVELOPED ON EACH SIDE OF THE INTERSECTION.

4. LONGITUDINAL AND CROSS WIRES OF JOINT REINFORCEMENT SHALL HAVE A MINIMUM WIRE SIZE OF W1.1 AND A MAXIMUM WIRE SIZE OF ONE-HALF THE JOINT THICKNESS.

5. THE CLEAR DISTANCE BETWEEN PARALLEL BARS SHALL NOT BE LESS THAN THE NOMINAL DIAMETER OF THE BARS, NOR LESS THAN 1 in.

6. IN COLUMNS AND PILASTERS, THE CLEAR DISTANCE BETWEEN VERTICAL BARS SHALL NOT BE LESS THAN ONE AND ONE-HALF TIMES THE NOMINAL BAR DIAMETER, NOR LESS THAN 1$\frac{1}{2}$ in.

7. GROUPS OF PARALLEL REINFORCING BARS BUNDLED IN CONTACT TO ACT AS A UNIT SHALL BE LIMITED TO TWO IN ANY ONE BUNDLE. INDIVIDUAL BARS IN A BUNDLE CUT OFF WITHIN THE SPAN OF A MEMBER SHALL TERMINATE AT POINTS AT LEAST 40 BAR DIAMETERS APART.

8. REINFORCEMENT EMBEDDED IN GROUT SHALL HAVE A THICKNESS OF GROUT BETWEEN THE REINFORCEMENT AND MASONRY UNITS NOT LESS THAN $\frac{1}{4}$ in. FOR FINE GROUT OR $\frac{1}{2}$ in. FOR COARSE GROUT.

9. LONGITUDINAL WIRES OF JOINT REINFORCEMENT SHALL BE FULLY EMBEDDED IN MORTAR OR GROUT WITH A MINIMUM COVER OF $\frac{5}{8}$ in. WHEN EXPOSED TO EARTH OR WEATHER AND $\frac{1}{2}$ in. WHEN NOT EXPOSED TO EARTH OR WEATHER. JOINT REINFORCEMENT IN MASONRY EXPOSED TO EARTH OR WEATHER SHALL BE CORROSION RESISTANT OR PROTECTED FROM CORROSION BY COATING.

10. STANDARD HOOKS SHALL BE FORMED BY ONE OF THE FOLLOWING METHODS:

a) A 180° TURN PLUS EXTENSION OF AT LEAST 4 BAR DIAMETERS BUT NOT LESS THAN 2$\frac{1}{2}$ in. AT FREE END OF BAR.
b) A 90° TURN PLUS EXTENDSION OF AT LEAST 12 BAR DIAMETERS AT FREE END OF BAR.
c) FOR STIRRUP AND TIE ANCHORAGE ONLY, EITHER A 90° OR A 135° TURN PLUS AN EXTENSION OF AT LEAST 6 BAR DIAMETERS AT THE FREE END OF THE BAR.

11. THE DIAMETER OF BEND MEASURED ON THE INSIDE OF REINFORCING BARS, OTHER THAN FOR STIRRUPS AND TIES, SHALL NOT BE LESS THAN:

a) FOR BAR SIZES No. 3 THROUGH No. 7, GRADE 40 - 5 BAR DIAMETERS.
b) FOR BAR SIZES No. 3 THROUGH No. 8, GRADE 50 OR 60 - 6 BAR DIAMETERS.
c) FOR BAR SIZES No. 9, No. 10, AND No. 11, GRADE 50 OR 60 - 8 BAR DIAMETERS.

12. MASONRY PARTITION WALLS, MASONRY SCREEN WALLS AND OTHER MASONRY ELEMENTS THAT ARE NOT DESIGNED TO RESIST VERTICAL OR LATERAL LOADS, OTHER THAN THOSE INDUCED BY THEIR OWN MASS, SHALL BE ISOLATED FROM THE STRUCTURE SO THAT VERTICAL AND LATERAL FORCES ARE NOT IMPARTED TO THESE ELEMENTS. ISOLATION JOINTS AND CONNECTORS BETWEEN THESE ELEMENTS AND THE STRUCTURE SHALL BE DESIGNED TO ACCOMMODATE THE DESIGN STORY DRIFT.

13. HORIZONTAL REINFORCEMENT - HORIZONTAL JOINT REINFORCEMENT SHALL CONSIST OF AT LEAST TWO LONGITUDINAL W1.7 WIRES SPACED NOT MORE THAN 16 in. FOR WALLS GREATER THAN 4 in. IN WIDTH AND AT LEAST ONE LONGITUDINAL W1.7 WIRE SPACED NOT MORE THAN 16 in. FOR WALLS NOT EXCEEDING 4 in. IN WIDTH; OR AT LEAST ONE No. 4 BAR SPACED NOT MORE THAN 48 in. WHERE TWO LONGITUDINAL WIRES OF JOINT REINFORCEMENT ARE USED, THE SPACE BETWEEN THESE WIRES SHALL BE THE WIDEST THAT THE MORTAR JOINT WILL ACCOMMODATE. HORIZONTAL REINFORCEMENT SHALL BE PROVIDED WITHIN 16 in. OF THE TOP AND BOTTOM OF THESE MASONRY WALLS.

14. VERTICAL REINFORCEMENT - VERTICAL REINFORCEMENT SHALL CONSIST OF AT LEAST ONE No. 4 BAR SPACED NOT MORE THAN 48 in. VERTICAL REINFORCEMENT SHALL BE LOCATED WITHIN 16 in. OF THE ENDS OF MASONRY WALLS.

15. MINIMUM REINFORCEMENT REQUIREMENTS FOR MASONRY SHEAR WALLS:

a) VERTICAL REINFORCEMENT OF AT LEAST 0.2 in2 IN CROSS-SECTIONAL AREA SHALL BE PROVIDED AT CORNERS, WITHIN 16 in. OF EACH SIDE OF OPENINGS, WITHIN 8 in. OF EACH SIDE OF MOVEMENT JOINTS, WITHIN 8 in. OF THE ENDS OF WALLS, AND AT A MAXIMUM SPACING OF 10 ft.
b) HORIZONTAL JOINT REINFORCEMENT SHALL CONSIST OF AT LEAST TWO WIRES OF W1.7 SPACED NOT MORE THAN 16 in.; OR BOND BEAM REINFORCEMENT SHALL BE PROVIDED OF AT LEAST 0.2 in2 IN CROSS-SECTIONAL AREA SPACED NOT MORE THAN 10 ft. HORIZONTAL REINFORCEMENT SHALL ALSO BE PROVIDED AT THE BOTTOM AND TOP OF WALL OPENINGS AND SHALL EXTEND NOT LESS THAN 24 in. NOR LESS THAN 40 BAR DIAMETERS PAST THE OPENING; CONTINUOUSLY AT STRUCTURALLY CONNECTED ROOF AND FLOOR LEVELS; AND WITHIN 16 in. OF THE TOP OF WALLS.

16. MINIMUM REINFORCEMENT REQUIREMENTS FOR MASONRY WALLS - MASONRY WALLS OTHER THAN THOSE COVERED IN NUMBER 13 ABOVE SHALL BE REINFORCED IN BOTH THE VERITCAL AND HORIZONTAL DIRECTION. THE SUM OF THE CROSS-SECTIONAL AREA OF HOIRZONTAL AND VERTICAL REINFORCEMENT SHALL BE AT LEAST 0.002 TIMES THE GROSS CROSS-SECTIONAL AREA OF THE WALL, AND THE MINIMUM CORSS-SECTIONAL AREA IN EACH DIRECTION SHALL BE NOT LESS THAN 0.0007 TIMES THE GROSS CROSS-SECTIONAL AREA OF THE WALL, USING SPECIFIED DIMENSIONS. REINFORCEMENT SHALL BE UNIFORMLY DISTRIBUTED. THE MAXIMUM SPACING OF REINFORCEMENT SHALL BE 48 in. EXCEPT FOR STACK BOND MASONRY. WYTHES OF STACK BOND MASONRY SHALL BE CONSTRUCTED OF FULLY GROUTED HOLLOW OPEN-END UNITS, FULLY GROUTED HOLLOW UNITS LAID WITH FULL HEAD JOINTS OR SOLID UNTIS. MAXIMUM SPACING OF REINFORCEMENT FOR WALLS WITH STACK BOND MASONRY SHALL BE 24 in.

17. SHEAR WALL REINFORCEMENT REQUIREMENTS - THE MAXIMUM SPACING OF VERTICAL AND HORIZONTAL REINFORCEMENT SHALL BE THE SMALLEST OF: ONE-THIRD THE LENGTH OF THE SHEAR WALL, ONE-THIRD THE HEIGHT OF THE SHEAR WALL, OR 48 in. THE MINIMUM CROSS-SECTIONAL AREA OF VERTICAL REINFORCEMENT SHALL BE ONE-THIRD OF THE REQUIRED SHEAR REINFORCEMENT.

18. MINIMUM REINFORCEMENT FOR MASONRY COLUMNS - LATERAL TIES IN MASONRY COLUMNS SHALL BE SPACED NOT MORE THAN 8 in. ON CENTER AND SHALL BE AT LEAST $\frac{3}{8}$ in. IN DIAMETER. LATERAL TIES SHALL BE EMBEDDED IN GROUT.

19. MATERIAL REQUIREMENTS - NEITHER TYPE N MORTAR NOR MASONRY CEMENT SHALL BE USED AS PART OF THE LATERAL FORCE-RESISTING SYSTEM.

20. LATERAL TIE ANCHORAGE - STANDARD HOOKS FOR LATERAL TIE ANCHORAGE SHALL BE EITHER A 135° STANDARD HOOK OR A 180° STANDARD HOOK.

COLD-FORMED STEEL AND LIGHT-FRAMED SHEAR WALLS

1. STUDS SHALL BE A MINIMUM 1 5/8" BY 3 5/8" WITH A 3/8" RETURN LIP. AS A MINIMUM, STUDS SHALL BE DOUBLE (BACK TO BACK) AT SHEAR WALL ENDS.

2. TRACK SHALL BE A MINIMUM 1 1/4" BY 3 1/2" AND SHALL BE EQUAL IN GAUGE THICKNESS TO THAT OF THE METAL STUD(S) WITHIN THAT TRACK.

3. BOTH STUDS AND TRACK SHALL HAVE A MINIMUM UNCOATED BASE METAL THICKNESS OF 33 MILS AND SHALL BE OF THE FOLLOWING GRADES OF STRUCTURAL QUALITY STEEL: ASTM A653 SS GRADE 33, ASTM A792 SS GRADE 33, OR ASTM A875 SS GRADE 33.

4. FASTENERS ALONG THE EDGES IN SHEAR PANELS SHALL BE PLACED NOT LESS THAN 3/8" IN FROM PANEL EDGES.

5. WHERE HORIZONTAL STRAP BLOCKING IS USED TO PROVIDE EDGE BLOCKING, IT SHALL BE A MINIMUM 3" WIDE AND OF THE SAME MATERIAL AND EQUAL OR GREATER THICKNESS AS THE TRACK AND STUDS.

6. SCREWS SHALL BE ATTACHED TO INTERMEDIATE SUPPORTS AT 12" ON CENTER UNLESS OTHERWISE NOTED.

7. GYPSUM BOARD ATTACHED TO DESIGNATED SHEAR OR LOAD BEARING WALL SHALL BE FULLY BLOCKED WITH SCREW SPACING AT 6" O.C. AT BOARD EDGES AND 6" O.C. WITHIN BOARD FIELD.

8. WOOD STRUCTURAL PANELS SHALL BE ATTACHED TO STEEL FRAMING WITH FLAT-HEAD SELF-DRILLING TAPPING SCREWS WITH A MINIMUM HEAD DIAMETER OF 0.292 INCH.

9. STRUCTURAL PANELS ARE PERMITTED TO BE APPLIED EITHER PARALLEL OR PERPENDICULAR TO FRAMING.

10. SCREWS USED TO ATTACH GYPSUM BOARD SHALL BE A MINIMUM NO. 6 IN ACCORDANCE WITH ASTM C954.

11. ATTACH TRACK TO CONCRETE BASE WITH A MINIMUM OF (2) 0.177 POWDER ACTUATED FASTENERS AT 16" ON CENTER.

12. ATTACH STUDS TO TRACK LEGS WITH A MINIMUM OF (2) #8 TAP SCREWS.

GEOTECHNICAL:

1. THE CONCRETE FOUNDATION HAS BEEN DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2000 P.S.F.

2. SOIL PROPERTIES AND THE VERIFICATION, THEREOF, IS THE RESPONSIBILITY OF THE OWNER AND OR GEOTECHNICAL ENGINEER OF RECORD.

LOAD TABLE

STRUCTURAL DESIGN BASED ON AND DESIGNED IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE

LIVE LOADS:

1. FLOOR LOADS:
   A. Rooms - 40 p.s.f.
   B. Offices - 50 p.s.f.
   C. Decks - 60 p.s.f.
   D. Balconies - 100 p.s.f.
   E. Other loads per IBC 2021
2. ROOF LOADS:
   A. Basic roof live load = 15 p.s.f.
3. PARTITIONS:
   A. Partition load - 12 p.s.f.

DEAD LOADS:

1. USE ACTUAL DEAD LOADS OF MATERIALS

SNOW LOADS:

FLAT-ROOF SNOW LOAD - Pf = 10psf
SNOW EXPOSURE FACTOR - Ce = 1.0
SNOW LOAD IMPORTANCE FACTOR - Is = 1.0
THERMAL FACTOR - Ct = 1.0

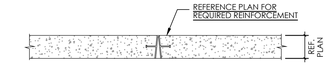
NOTE:
IT SHALL BE UNLAWFUL TO PLACE, OR CAUSE OR PERMIT TO BE PLACED, ON ANY FLOOR OR ROOF OF A BUILDING, STRUCTURE, OR PORTION THEREOF, A LOAD GREATER THAN IS PERMITTED BY THESE REQUIREMENTS. (PER IBC CHAPTER 16/ASCE 7-22)

WIND LOADS:

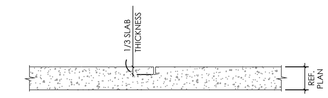
BUILDING CLASSIFICATION: ENCLOSED
WINDOW PROTECTION: IMPACT GLAZING FOR LARGE MISSILE TEST ASTM E 1996 (BELOW 30 FEET)
SMALL MISSILE TEST ASTM E 1996 (ABOVE 30 FEET)
DESIGN WIND SPEED (mph)=160 ULTIMATE / 117 NOMINAL
WIND IMPORTANCE FACTOR - Iw = 1.0
BUILDING RISK CATEGORY = IV
WIND EXPOSURE = D
INTERNAL PRESSURE COEFICIENT = +/- 0.18
REQUIRED WINDOW/DOOR DESIGN PRESSURE RATING = 55 PSF

SEISMIC LOADS:

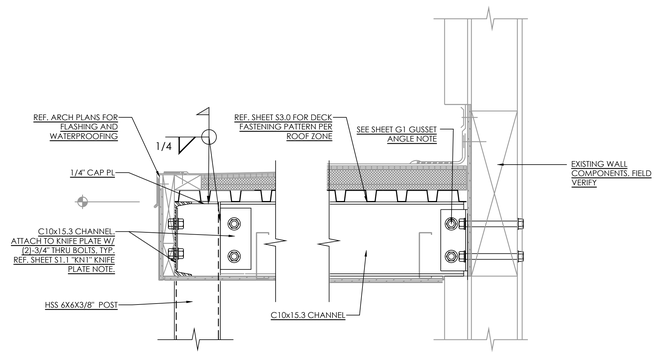
SEISMIC USE GROUP - 3
SPECTRAL RESPONSE COEFFICIENTS - Sds =0.31 Sd1 = 0.17
SITE CLASS - D
BASIC SEISMIC-FORCE RESISTING SYSTEM - BEARING WALL SYSTEM
DESIGN BASE SHEAR - LESS THAN 5 KIPS
ANALYSIS PROCEDURE - EQUIVALENT FORCE METHOD



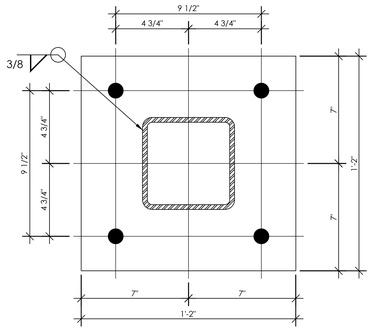
TYPICAL KEY-WAY CONTROL JOINT DETAIL



TYPICAL SAW JOINT DETAIL

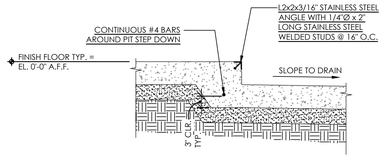


SECTION 2 / S4.0



BASE PLATE

COLUMN DESIGNATION: C2
PLATE THICKNESS: 1"
ANCHOR BOLT DIAMETER: 3/4" (LEVELING NUTS BELOW)
ANCHOR BOLT EMBEDMENT: FOOTING THICKNESS - 3"
ANCHOR BOLT PROJECTION: 8"
ANCHOR BOLT MATERIAL: A325 OR A490
2" GROUT REQUIRED BELOW BASE PLATE!!!!



SECTION 1 / S4.0

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GRANDE DUNES A.S.C.
RENOVATION - PHASE III
Myrtle Beach, South Carolina
for:
HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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REVISIONS:

TITLE:
CONSTRUCTION NOTES
SCALE: 3/4" = 1'-0"

SHEET:
S4.0

FIRE HYDRANT FLOW TEST

TEST DATE: 12/3/24 TEST TIME: 10:30 A.M.

FIRE FLOW LOCATION: 707 N Kings Hwy

HYDRANT NUMBER: H001096

HYDRANT MAKE: Clow 2006

HYDRANT BARREL DIAMETER: 5.25"

WATER MAIN SIZE: 8"

FLOW DURATION: 5 Minutes

RESIDUAL HYDRANT NUMBER: H001088

HYDRANT MAKE: Mueller 2007

HYDRANT BARREL DIAMETER: 5.25"

HYDRANT FLOW DATA FOR HYDRANT

STATIC PRESSURE: 62 PSI

RESIDUAL PRESSURE: 58 PSI

PITOT GAGE READING: N/A PSI FLOW: 1130 GPM

PITOT GAGE SIZE: N/A

PROJECTED FLOWS:

@20 PSI N/A GPM

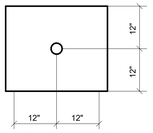
@ 0 PSI N/A GPM

REMARKS:

TESTER: Mathew Hughes

WITNESS: James Shank

ENGINEER:



24" x 24" CEILING TILE

SPRINKLER HEAD LOCATION NOTES:

1. ALL LOCATIONS INDICATED ARE TO BE MAINTAINED WITHIN PLUS OR MINUS 1/2" AND ALIGNED WITH ADJACENT HEADS FOR A UNIFORM, EVEN APPEARANCE OF COMPLETED INSTALLATION. POSITIONS INDICATED APPLY TO FULL SIZE SMOOTH SURFACE TILES, AS WELL AS FULL SIZE SUB-GRIDDED (SCORED OR GRAPHICALLY DIVIDED) SURFACE TILES. THE APPEARANCE OF THE FINISHED CEILING TILE FACE AS INSTALLED OVERRIDES THE ACTUAL PHYSICAL DIMENSIONS OF THE TILE FOR PLACEMENTS INDICATED HEREIN. VERIFY CEILING TILE TYPES FROM ARCHITECTURAL DOCUMENTATION.
2. CONCEALED HEADS TO BE INSTALLED WITH COVERS FLUSH TO CEILING PLANE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
3. INSTALLATION OF ALL SPRINKLERS HEADS TO BE COORDINATED WITH STRUCTURE AND WORK OF OTHER TRADES, VERIFIED IN ADVANCE BY THE FIRE PROTECTION CONTRACTOR.

1 / FP001 FIRE PROTECTION SPRINKLER LOCATION
NOT TO SCALE

GENERAL FIRE PROTECTION NOTES

1. DO NOT SCALE DRAWINGS. ROUGH FROM ARCHITECTURAL AND EQUIPMENT MANUFACTURER'S DRAWINGS. COORDINATE CEILING FINISHES AND HEIGHTS AS APPLICABLE.
2. CONTRACTOR SHALL MODIFY AND EXTEND EXISTING AUTOMATIC WET PIPE SYSTEM CONFORMING TO NFPA 13.
3. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH NFPA 13 AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
4. COORDINATE SPRINKLER SYSTEMS WITH ALL TRADES TO AVOID INTERFERENCE AND CONFLICTS PRIOR TO INSTALLATION OF PIPING, VALVES, AND EQUIPMENT.
5. LOCATE VALVES TO PERMIT EASY ACCESSIBILITY AND IN ACCORDANCE WITH NFPA 13.
6. WHENEVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN FURNISH AND INSTALL COMPLETE AND READY FOR USE.
7. UNLESS OTHERWISE SHOWN OR NOTED, ALL PIPING SHALL BE RUN CONCEALED IN WALLS, CHASES, AND/OR ABOVE CEILINGS.
8. PROVIDE SPRINKLER COVERAGE THROUGHOUT AREA OF WORK IN ACCORDANCE WITH SPECIFICATIONS AND NFPA 13.
9. PROVIDE SEISMIC BRACING PER NFPA 13 AND ASCE/SEI 7-16.
10. ALL SPRINKLERS SHALL BE CENTERED IN LAY-IN CEILING TILES OR CENTERED IN "HALF-TILE" LOCATIONS THROUGHOUT THE BUILDING.
11. SPRINKLERS SHALL BE CONCEALED WITH FLAT COVER PLATE THROUGHOUT THE BUILDING WITH WHITE COVER PLATE, UNO. PROVIDE QUICK RESPONSE SPRINKLERS UNLESS OTHERWISE REQUIRED BY NFPA.
12. THE BUILDING HAS PIPING, DUCTWORK, RACEWAYS, SUSPENDED LIGHT FIXTURES, ETC. THAT IMPOSE OBSTRUCTIONS TO SPRINKLERS. CONTRACTOR SHALL PROVIDE HEADS APPROPRIATELY BELOW AND ABOVE OBSTRUCTIONS TO PROVIDE PROPER COVERAGE OF THE ENTIRE FACILITY IN ACCORDANCE WITH NFPA 13 AS IT RELATES TO OBSTRUCTIONS.
13. ALL SUSPENDED PIPING SHALL BE SUPPORTED FROM FLOOR AND/OR ROOF STRUCTURAL MEMBERS. IN NO CASE SHALL PIPING BE SUSPENDED FROM FLOOR AND ROOF DECK.
14. ALL PIPING IN AREAS WITH EXPOSED STRUCTURE SHALL BE INSTALLED TIGHT TO EXPOSED BEAMS. EXACT LOCATIONS IN PLAN AND ELEVATION SHALL BE COORDINATED WITH THE ARCHITECT DURING THE SHOP DRAWING REVIEW PHASE.
15. ALL WORK AND SYSTEM OUTAGES SHALL BE COMPLETED IN ACCORDANCE WITH NFPA 25 AND SHALL BE FULLY COORDINATED WITH THE OWNER.
16. SEE ARCHITECTURAL DRAWINGS FOR RATED WALL LEGEND.
17. AREAS SHALL BE LIGHT HAZARD UNO. AREAS NOT HATCHED, STILL IN SCOPE AND REQUIRE SPRINKLER COVERAGE.
18. ALL FIRE FLOW TESTS MUST BE RERUN IF THE CALCULATIONS ARE PREFORMED TWELVE MONTHS OR LATER THAN THE TEST INDICATED ON THE FSSSS. IF RETESTING IS REQUIRED, IT WILL BE PROVIDED BY OWNER; REQUEST FROM OWNER / ENGINEER. COORDINATE SPRINKLER SYSTEMS WITH STRUCTURE AND ALL OTHER TRADES TO AVOID INTERFERENCE AND CONFLICTS PRIOR TO INSTALLATION OF PIPING, VALVES, AND EQUIPMENT.
19. PROVIDE UL RATED FIRE AND SMOKE PENETRATION FIRESTOPPING SYSTEMS FOR ALL PENETRATIONS OF FIRE RATED ASSEMBLIES.
20. FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED SUBMITTALS TO AUTHORITIES HAVING JURISDICTION FOR PERMITTING AND ANY OTHER REQUIRED SUBMITTALS OR APPROVALS. FIRE SPRINKLER SHOP DRAWINGS, PRODUCT DATA, HYDRAULIC CALCULATIONS AND SEISMIC CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW. CONTRACTOR SHALL ADDRESS ENGINEER COMMENTS INCLUDING WRITTEN RESPONSES AND RESUBMIT UNTIL PRELIMINARY ENGINEERING APPROVAL IS GIVEN. THE ENGINEER OF RECORD WILL ATTACH THE FIRE SPRINKLER SYSTEM SPECIFICATION SHEET AND CERTIFICATE OF COMPLIANCE TO THE ATTACHMENTS AND FORWARD THEM TO THE SCLLR DIVISION OF FIRE AND LIFE SAFETY. CONTRACTOR SHALL ADDRESS SCLLR COMMENTS AND RESUBMIT WITH REVISED DOCUMENTS INCLUDING WRITTEN RESPONSES TO THE ENGINEER, UNTIL FINAL APPROVAL IS GIVEN.
21. THE END SPRINKLER ON A LINE SHALL BE RESTRAINED PER NFPA 13. SHOW DETAIL FOR END OF LINE RESTRAINTS ON SHOP DRAWING.
22. COORDINATE WORK WITH AUTHORITY HAVING JURISDICTION. OBTAIN ALL PERMITS AND PASS ALL INSPECTIONS FROM AUTHORITY HAVING JURISDICTION.

FIRE PROTECTION SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SPRINKLER PIPING		PIPE UP
	PIPE TEE UP		PIPE DOWN
	PIPE TEE DOWN		PIPE REDUCER
	PIPE STRAIGHT TEE		EXISTING SPRINKLER
	LIGHT HAZARD — DESIGN DENSITY: 0.1 GPM/SF; DESIGN AREA: 1500 SF; OUTSIDE HOSE DEMAND: 100 GPM; DURATION: 60 MINUTES		ORDINARY HAZARD, GROUP 1 — DESIGN DENSITY: 0.15 GPM/SF; DESIGN AREA: 1500 SF; OUTSIDE HOSE DEMAND: 250 GPM; DURATION: 60 MINUTES

FIRE PROTECTION CODES & STANDARDS (WITH ALL SOUTH CAROLINA MODIFICATIONS)

CODE	DESCRIPTION
ASCE 7-16	MINIMUM DESIGN LOADS FOR BUILDINGS & OTHER STRUCTURES
IBC (2021)	INTERNATIONAL BUILDING CODE
IFC (2021)	INTERNATIONAL FIRE CODE
NFPA 13 (2019)	STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
NFPA 14 (2019)	STANDARD FOR THE INSTALLATION OF STANDPIPE & HOSE SYSTEMS
NFPA 20 (2019)	STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
NFPA 25 (2020)	STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS

FIRE PROTECTION ABBREVIATIONS

ABBR	DESCRIPTION
(E)	EXISTING
AFC	ABOVE FINISHED CEILING
FDC	FIRE DEPARTMENT CONNECTION
FP	FIRE PROTECTION SPRINKLER PIPING
PSIG	POUNDS PER SQUARE INCH GAUGE
SF	SQUARE FOOT
U/G	UNDER GROUND
UNO	UNLESS NOTED OTHERWISE

FIRE RATED WALL LEGEND

1-HOUR FIRE BARRIER

2-HOUR FIRE BARRIER

1-HOUR SMOKE BARRIER

FIRE PROTECTION NOTE TO AUTHORITY HAVING JURISDICTION

FIRE SPRINKLER SHOP DRAWINGS AND CALCULATIONS ARE A DEFERRED DESIGN. SPRINKLER CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS TO ENGINEER AND FIRE MARSHAL PRIOR TO START OF SPRINKLER WORK.

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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 31117 JULIAN MARC MEYER 1/6/2025

GRANDE DUNES A.S.C. RENOVATION - PHASE III

Myrtle Beach, South Carolina

for: HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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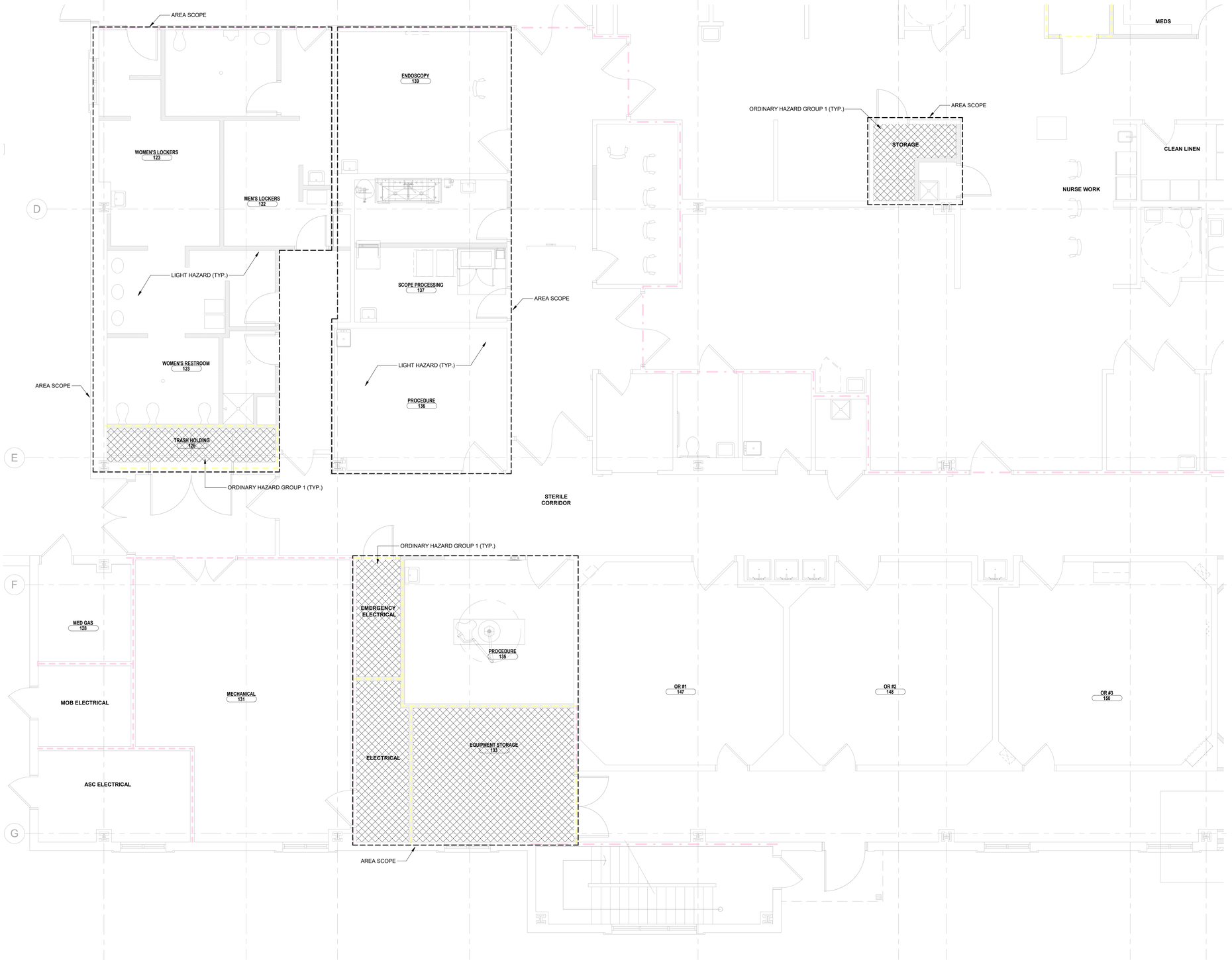
TITLE:

FIRE PROTECTION NOTES, LEGENDS, & DETAILS

SHEET:

FP001



1 FP110 FIRST FLOOR FIRE PROTECTION PLAN - AREA A
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL MODIFY EXISTING AUTOMATIC WET PIPE SYSTEM IN SCOPE CONFORMING TO NFPA 13.

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Myrtle Beach, South Carolina
for: HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
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TITLE:

FIRST FLOOR FIRE PROTECTION PLAN - AREA A

SHEET:

FP110

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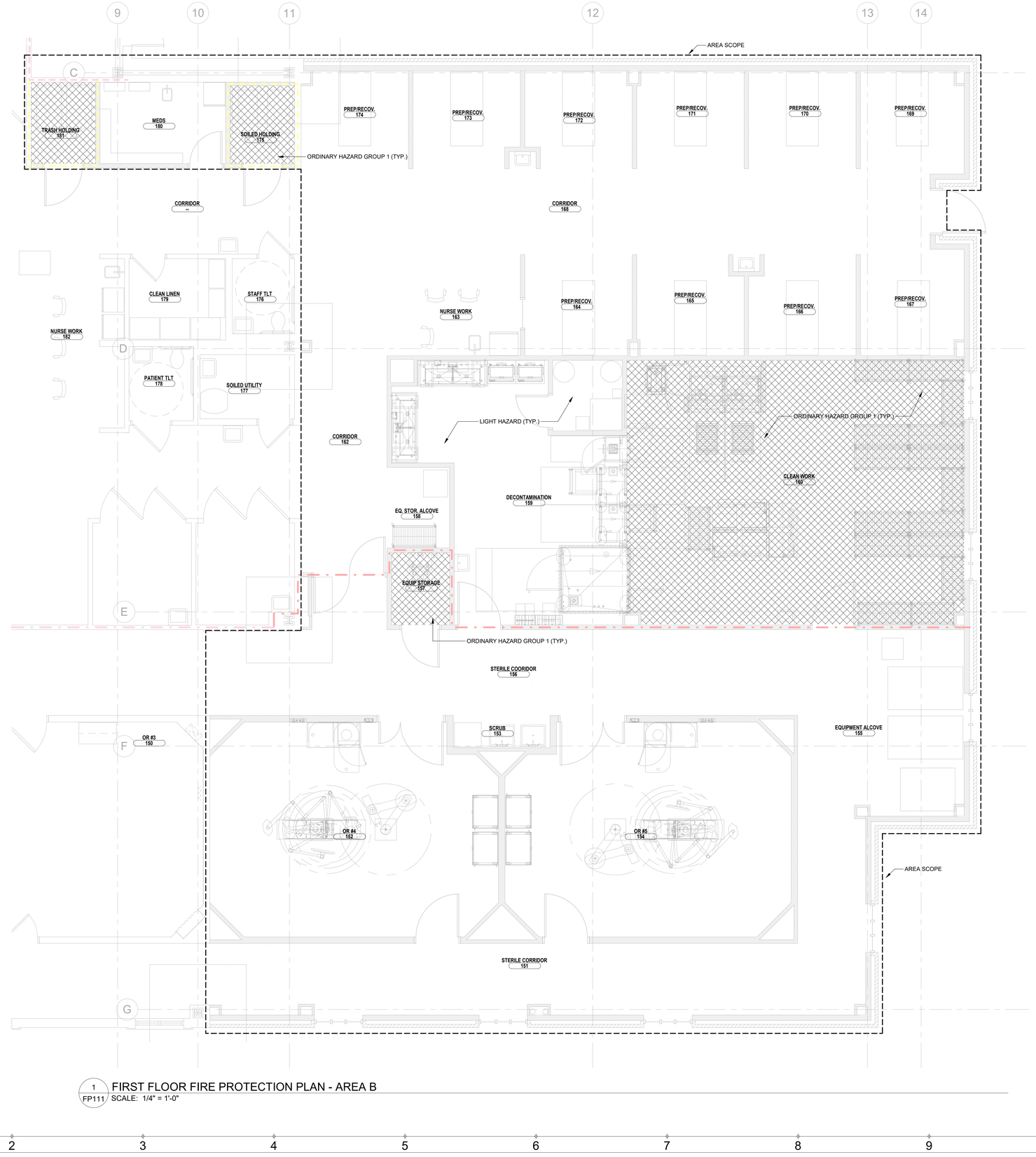

1 FP111 FIRST FLOOR FIRE PROTECTION PLAN - AREA B
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL EXTEND EXISTING AUTOMATIC WET PIPE SYSTEM FOR THE EXPANSION THAT SHALL CONFORM TO NFPA 13.

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GRANDE DUNES A.S.C.
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Myrtle Beach, South Carolina
for:
HCA South Atlantic

PROJECT NO: 22-113

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TITLE:

FIRST FLOOR FIRE PROTECTION PLAN - AREA B

SHEET:

FP111

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EMPLOYEE OWNED
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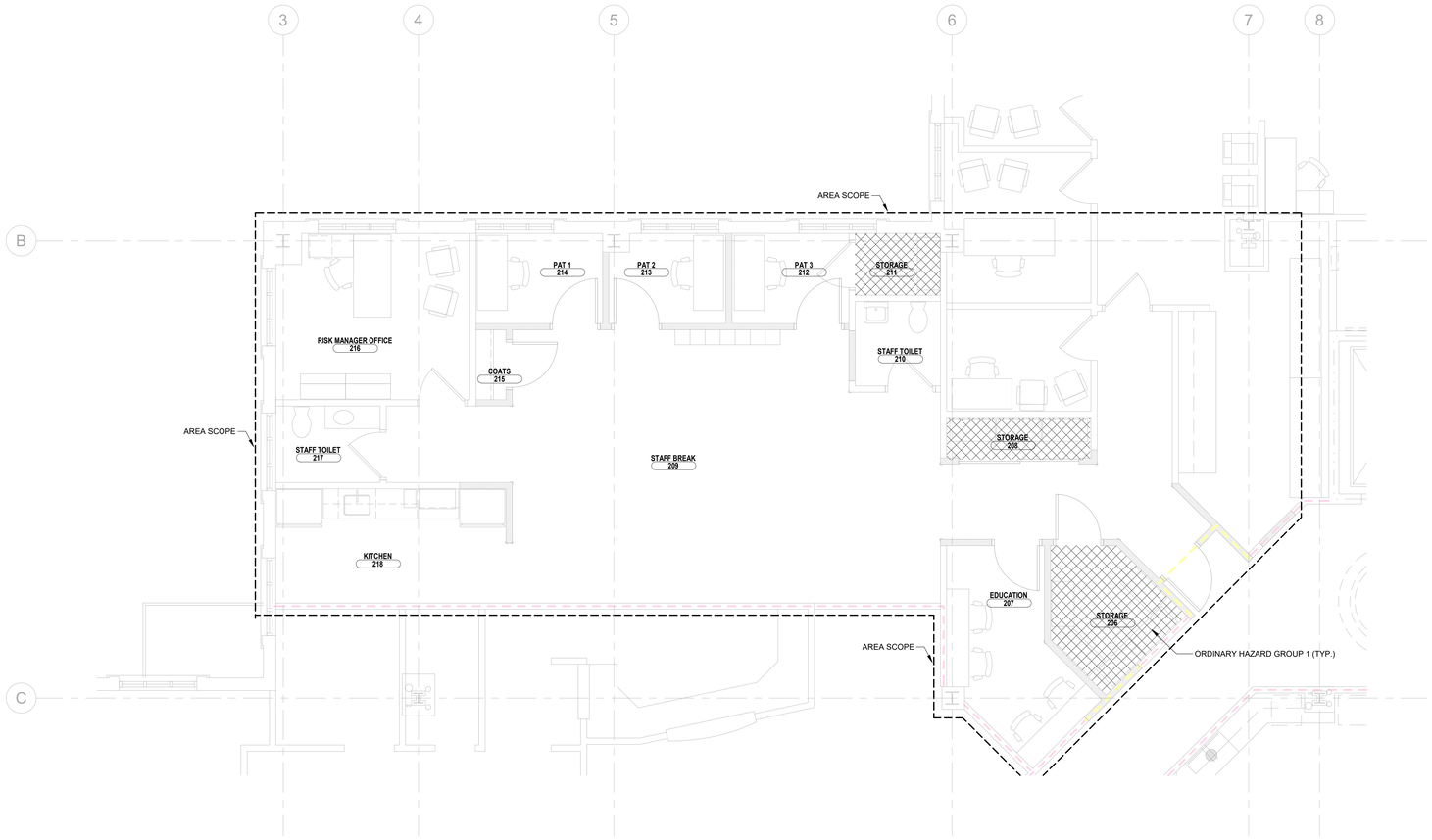

1 / FP120 SECOND FLOOR FIRE PROTECTION PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL MODIFY EXISTING AUTOMATIC WET PIPE SYSTEM CONFORMING TO NFPA 13.

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SOUTH CAROLINA
DWG, INC.
CONSULTING ENGINEERS
No.C03649
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 31117
JULIAN MARIE MEYER
1/6/2025

GRANDE DUNES A.S.C.
RENOVATION - PHASE III
Myrtle Beach, South Carolina
for:
HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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REVISIONS:

TITLE:

SECOND FLOOR FIRE PROTECTION PLAN

SHEET:

FP120

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PLUMBING SYSTEMS
SEISMIC AND WIND REQUIREMENTS
PER IBC-2021/ASCE 7-16

A. PER THE 2021 INTERNATIONAL BUILDING CODE, MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT AND COMPONENTS, INCLUDING THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED FOR SEISMIC FORCES IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7-16.

B. EXTERIOR EQUIPMENT (INCLUDING ROOF CURBS, RAILS, SUPPORTS) EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH CHAPTER 26 TO 29 OF ASCE 7-16.

C. WHERE DESIGN FOR SEISMIC AND WIND LOADS IS REQUIRED, THE MORE DEMANDING FORCE MUST BE USED.

D. REFERENCE THE STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY, WIND SPEEDS, ETC.

E. USE THE TABLE BELOW TO DETERMINE SEISMIC RESTRAINT REQUIREMENTS FOR EACH COMPONENT.

F. FOR ALL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL REGISTERED IN THE STATE THE JOB IS LOCATED. SUBMITTALS MUST INCLUDE STAMPED AND SIGNED DRAWINGS AND CALCULATIONS.

G. WHERE SEISMIC RESTRAINT IS REQUIRED, HOUSEKEEPING PADS NEEDED FOR THE INSTALLATION OF EQUIPMENT UNDER THIS CONTRACT MUST BE DESIGNED BY THE SEISMIC ENGINEER. DO NOT POUR ANY HOUSEKEEPING PADS PRIOR TO THE RECEIPT OF THE APPROVED SEISMIC SUBMITTAL.

H. SEISMIC RESTRAINTS FOR DUCTWORK, PIPING, CONDUIT, CABLE TRAYS AND BUS DUCT MUST BE SHOWN ON LAYOUT DRAWINGS SHOWING SPECIFIC RESTRAINT LOCATIONS ALONG WITH ACCOMPANYING DETAILS AND CALCULATIONS.

PLUMBING COMPONENT IMPORTANCE FACTOR (Ip) DESIGNATION

Ip = 1.0	Ip = 1.5
	• ALL PLUMBING COMPONENTS

SEISMIC DESIGN CATEGORIES D,E,F

		COMPONENT IMPORTANCE FACTOR (Ip)			
		1.0		1.5	
COMPONENT IDENTIFICATION		SEISMIC RESTRAINT REQUIREMENT	NOTES	SEISMIC RESTRAINT REQUIREMENT	NOTES
ROOF MOUNTED		RESTRAIN ALL	1	RESTRAIN ALL	-
FLOOR MOUNTED		RESTRAIN ALL	1, 2	RESTRAIN ALL	-
WALL MOUNTED		RESTRAIN ALL	1, 2	RESTRAIN ALL	-
COMPONENT SUPPORTS		RESTRAIN ALL	1	RESTRAIN ALL	-
SUSPENDED EQUIPMENT	INLINE W/ DUCT	RESTRAIN IF >75 LBS PROVIDE FLEX. CONN.	3	RESTRAIN IF >75 LBS PROVIDE FLEX. CONN.	3
	NOT INLINE W/ DUCT/PIPE	RESTRAIN ALL	1	RESTRAIN ALL	-
SUSPENDED DUCTILE PIPING (STEEL, ALUMINUM, COPPER, ETC.)		>3"	4	>1"	4
SUSPENDED NON-DUCTILE PIPING (CAST IRON, PLASTIC, CERAMIC)		RESTRAIN ALL	4	RESTRAIN ALL	4
SUSPENDED PIPE ON TRAPEZE		RESTRAIN IF ANY PIPE ON TRAPEZE > 3" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE > 10 LBS/FT	4	RESTRAIN IF ANY PIPE ON TRAPEZE > 1" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE > 10 LBS/FT	4
COMPONENT CERTIFICATION		NOT REQUIRED	5	REQUIRED	5

NOTES:
1. EQUIPMENT 20 LBS. OR LESS IS EXEMPT IF THE COMPONENT IS POSITIVELY ATTACHED TO THE STRUCTURE AND FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
2. RESTRAINTS ARE NOT REQUIRED IF THE COMPONENT WEIGHS 400 LBS. OR LESS, IS MOUNTED WITH THE CENTER OF MASS LOCATED AT 4 FT. OR LESS ABOVE A FLOOR, IS POSITIVELY ATTACHED TO THE STRUCTURE AND HAS FLEXIBLE CONNECTIONS BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
3. FLEXIBLE CONNECTIONS REQUIRED FOR PIPE CONNECTIONS ONLY.
4. RESTRAINT IS NOT REQUIRED IF THE PIPING IS SUPPORTED BY HANGERS AND EACH HANGER IN THE PIPING RUN IS 12 IN. OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE SUPPORTING STRUCTURE. WHERE PIPES ARE SUPPORTED ON A TRAPEZE, THE TRAPEZE SHALL BE SUPPORTED BY HANGERS HAVING A LENGTH OF 12 IN. OR LESS. WHERE ROD HANGERS ARE USED, THEY SHALL BE EQUIPPED WITH SWIVELS, EYE NUTS OR OTHER DEVICES TO PREVENT BENDING IN THE ROD.
5. COMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT TIME OF SUBMITTAL FOR REVIEW BY ENGINEER OF RECORD.

GENERAL PLUMBING NOTES

1. PROVIDE ALL MATERIALS AND LABOR NECESSARY FOR A COMPLETE PLUMBING SYSTEM.
2. DO NOT SCALE DRAWINGS. OBTAIN ROUGH-IN DIMENSIONS FROM ARCHITECTURAL DRAWINGS OR FROM MANUFACTURERS PRINTED INSTRUCTIONS AND RECOMMENDATIONS ONLY.
3. COORDINATE PLUMBING SYSTEMS WITH ALL TRADES TO AVOID CONFLICTS PRIOR TO INSTALLATION OF PLUMBING COMPONENTS.
4. OBTAIN ALL PERMITS AND INSPECTIONS FROM AUTHORITY HAVING JURISDICTION. THIS INCLUDES ALL FEES THAT MAY BE REQUIRED.
5. PROVIDE OWNER WITH CERTIFICATES OF FINAL INSPECTION FROM AUTHORITY HAVING JURISDICTION.
6. WHENEVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN FURNISH AND INSTALL COMPLETE AND READY FOR USE.
7. UNLESS OTHERWISE SHOWN OR NOTED, ALL PIPING SHALL BE RUN CONCEALED IN WALLS, CHASES AND/OR ABOVE CEILINGS.
8. ALL SUSPENDED PIPING SHALL BE SUPPORTED FROM BUILDING STRUCTURAL MEMBERS. IN NO CASE SHALL PIPING BE SUSPENDED FROM FLOOR OR ROOF DECK.
9. WHERE PIPES PENETRATE FIRE RATED ASSEMBLIES, SEAL OPENING AROUND PIPES WITH U.L. LISTED FIRE STOPPING MATERIAL TO MAINTAIN THE FIRE RATING OF THE ASSEMBLY.
10. PROVIDE INSULATION FOR PIPING COLLECTING CONDENSATE DRAIN.
11. PROVIDE HANGERS AND SUPPORTS WITHIN 12" OF EACH HORIZONTAL ELBOW FOR SANITARY AND VENT PIPING.
12. ALL CONNECTIONS TO, OR SHUTDOWN OF, EXISTING SYSTEMS SHALL BE COORDINATED WITH THE OWNER TO PROVIDE MINIMAL INTERFERENCE WITH THEIR OPERATIONS AND DOWNTIME OF THE SYSTEM.
13. AREAS OF WORK EXIST FOR THE PROJECT WHICH WERE NOT ACCESSIBLE OR PROVIDED LIMITED ACCESS DURING DESIGN. AS SUCH, CONTRACTOR SHALL VERIFY ALL UTILITIES IN AREA OF WORK INCLUDING LOCATION AND INVERT ELEVATION BEFORE DEMOLITION OF ANY SERVICE. ANY PIPING NOT SHOWN SHALL BE IDENTIFIED AND THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED AS SOON AS POSSIBLE. NO PIPING REWORK SHALL BE COMMENCED WITHOUT COORDINATION OF BOTH ARCHITECT AND ENGINEER.
14. IN AREAS WHERE THE EXISTING CEILINGS ARE NOT SLATED TO BE REPLACED, THE CONTRACTOR SHALL WORK THROUGH THE EXISTING CEILING (SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR AREA OF WORK). THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY DAMAGED TILE OR GRID THAT IS A RESULT OF THEIR WORK.
15. UNLESS OTHERWISE NOTED, WHERE EXISTING PIPING MUST BE DEMOLISHED, REMOVE ALL PIPING BACK TO THE MAIN AND CAP WITHIN ONE AND A HALF PIPE DIAMETERS NOT TO EXCEED 3 INCHES. DO NOT ABANDON DEAD LEG PIPING IN DOMESTIC WATER SYSTEMS.
16. PROVIDE A TEMPERATURE LIMITING DEVICE CONFORMING TO ASSE 1070 AT EACH LAVATORY, HAND WASHING SINK, OR ANY FIXTURE WITH A SENSOR FAUCET TO DELIVER 105°F WATER, UNLESS OTHERWISE NOTED. PROVIDE WATTS LFUSG-B FOR INDIVIDUAL LAVATORIES OR WATTS LFMMV FOR GROUPS OF LAVATORIES, OR APPROVED EQUALS.

PLUMBING CODES & STANDARDS
(WITH ALL SOUTH CAROLINA MODIFICATIONS)

CODE	DESCRIPTION
DPH REGULATION 61-91 (2024)	STATE OF SOUTH CAROLINA MINIMUM STANDARDS FOR LICENSING AMBULATORY SURGICAL FACILITIES
IBC (2021)	INTERNATIONAL BUILDING CODE
IECC (2009)	INTERNATIONAL ENERGY CONSERVATION CODE
IFGC (2021)	INTERNATIONAL FUEL GAS CODE
IPC (2021)	INTERNATIONAL PLUMBING CODE
NFPA 99 (2018)	HEALTH CARE FACILITIES CODE

PLUMBING ABBREVIATIONS

ABBR	DESCRIPTION
A/C	ABOVE CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BFP	BACKFLOW PREVENTER
BTU	BRITISH THERMAL UNIT
BV	ISOLATION VALVE
BWV	BACKWATER VALVE
C	DOMESTIC COLD WATER SUPPLY
CFM	CUBIC FEET PER MINUTE
CO2	CARBON DIOXIDE GAS
CV	CONCENTRIC VENT
DIA	DIAMETER
DS	DRY TYPE FIRE SPRINKLER PIPING
F/A	FROM ABOVE
FCO	FLOOR CLEANOUT
FPM	FEET PER MINUTE
FS	WET TYPE FIRE SPRINKLER PIPING
FT	FEET
G	GREASE/KITCHEN WASTE
GPF	GALLON PER FLUSH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	DOMESTIC HOT WATER SUPPLY
HA	HAMMER ARRESTOR
HB	HOSE BIBB
HCP	HOT WATER RECIRCULATING PUMP
HR	DOMESTIC HOT WATER RETURN
HVAC	HVAC MAKEUP WATER
I-A	INSTRUMENT AIR
IN	INCHES
IN WG	INCHES WATER GUAGE
MA	MEDICAL AIR
N	NITROGEN GAS
N20	NITROUS OXIDE GAS
NG	NATURAL GAS
O	OXYGEN GAS
OF	SECONDARY STORM
OFO	OVERFLOW OUTLET
P	PROPANE
PC	PLUMBING CONTRACTOR
S	SANITARY/WASTE PIPING
ST	STORM
T	TEMPERED WATER SUPPLY
TP	TRAP PRIMER
TR	TEMPERED WATER RETURN
U/G	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
V	VENT PIPING
VAC	VACUUM
VTR	VENT THRU ROOF
WAGD	WASTE ANESTHETIC GAS DISPOSAL
WCO	WALL CLEANOUT
WH	WATER HEATER

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
BFP	BACKFLOW PREVENTER		CONNECTION TO EXISTING SYSTEM
	FLOW CONTROL		CONTROL VALVE
	PRESSURE REDUCING VALVE		BALANCING VALVE
	SWING CHECK VALVE		ISOLATION VALVE
	PLUG VALVE		SOLENOID VALVE
	PIPE UP		PIPE DOWN
	PIPE REDUCER		PIPE STRAIGHT TEE
	PIPE TEE DOWN	FCO	FLOOR CLEANOUT
	HOSE BIBB - INTERIOR, EXTERIOR	FD	FLOOR DRAIN WITH FLOOR SLOPED TO DRAIN
VTR	VENT THRU ROOF		TRAP PRIMER

PLUMBING PIPING LEGEND

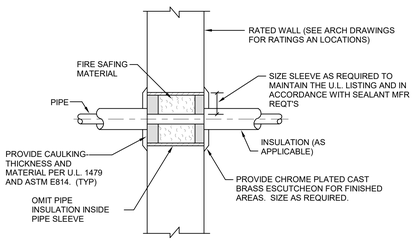
	SANITARY AND WASTE PIPING
	VENT PIPING
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT/TEMPERED WATER PIPING
	DOMESTIC HOT/TEMPERED WATER RETURN PIPING
	NATURAL GAS PIPING
	STORM PIPING
	SECONDARY STORM PIPING

HAMMER ARRESTOR SCHEDULE

UNIT I.D.	PDI UNIT	FIXTURE UNIT	MANUFACTURER
HA	A	1-11	JOSAM 75000 OR EQUIVALENT ZURN, SMITH
HA	B	12-32	JOSAM 75000 OR EQUIVALENT ZURN, SMITH
HA	C	33-60	JOSAM 75000 OR EQUIVALENT ZURN, SMITH
HA	D	61-113	JOSAM 75000 OR EQUIVALENT ZURN, SMITH
HA	E	114-154	JOSAM 75000 OR EQUIVALENT ZURN, SMITH

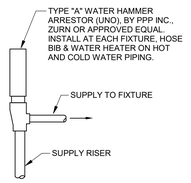
FIRE RATED WALL LEGEND

1-HOUR FIRE BARRIER
2-HOUR FIRE BARRIER
1-HOUR SMOKE BARRIER

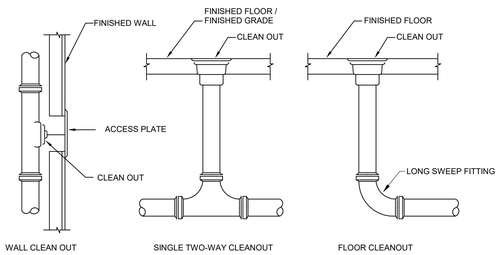


NOTE:
1. PROVIDE DATA SHEETS FOR CAULKING MATERIALS FOR REVIEW. FAILURE TO COMPLY PRIOR TO INSTALLATION OF ANY CAULKING MATERIALS SHALL REQUIRE THE REMOVAL OF ALL PIPE CAULK MATERIALS.

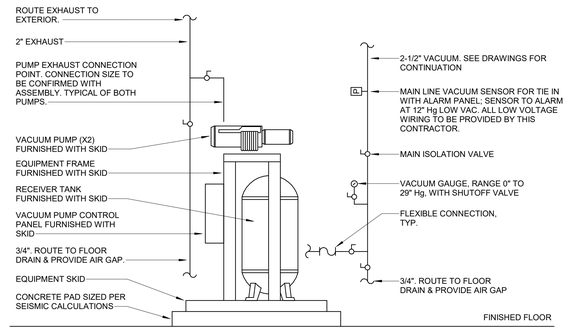
1 P001 PIPE THRU RATED ASSEMBLY
NOT TO SCALE



2 P001 WATER HAMMER ARRESTOR DETAIL
NOT TO SCALE

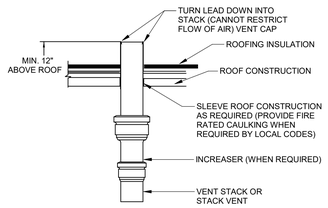


3 P001 CLEANOUT DETAIL
NOT TO SCALE

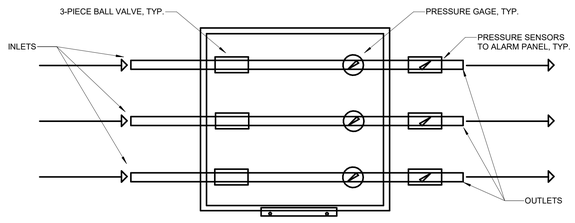


NOTES:
1. FLEXIBLE CONNECTIONS ARE TO BE INSTALLED AT ALL PACKAGE EQUIPMENT CONNECTION POINTS.
2. ALL CLEARANCE REQUIREMENTS SHALL BE MET.

4 P001 VACUUM PUMP INSTALLATION DETAIL
NOT TO SCALE

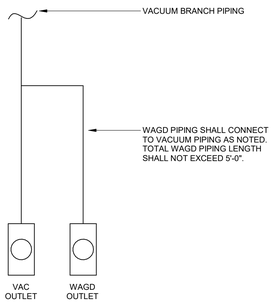


5 P001 VTR DETAIL
NOT TO SCALE

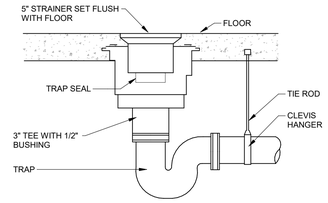


NOTES:
1. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.
2. PRESSURE SENSORS SHALL BE MOUNTED DOWNSTREAM OF ZONE VALVES.

6 P001 ZONE VALVE BOX INSTALLATION DETAIL
NOT TO SCALE



7 P001 TYPICAL WAGD CONNECTION
NOT TO SCALE



8 P001 FLOOR DRAIN INSTALLATION DETAIL
NOT TO SCALE

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SOUTH CAROLINA — DWG, INC. CONSULTING ENGINEERS No.C03649 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — Allan M. Meyer No. 31117 — 1/6/2025 — ALLAN MARIE MEYER

GRANDE DUNES A.S.C.
RENOVATION - PHASE III
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REVISIONS:

TITLE:

PLUMBING NOTES, LEGENDS, AND DETAILS

SHEET:

P001

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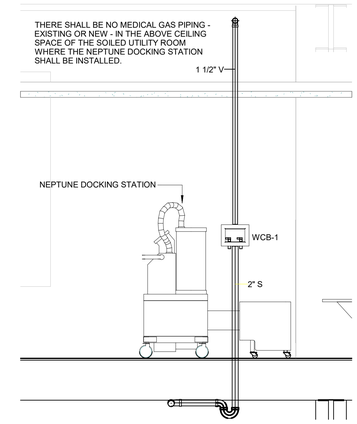
PLUMBING FIXTURE SCHEDULE

ITEM	FIXTURE TYPE	FIXTURE DESCRIPTION	HOT WATER	COLD WATER	WASTE	VENT	MOUNTING HEIGHT/REMARKS/NOTES (ABOVE FLOOR)
WC	WATER CLOSET FLOOR MOUNTED - FLUSH VALVE	FLOOR MOUNTED, FLOOR OUTLET, VITREOUS CHINA WATER CLOSET AND ELONGATED BOWL (DESIGNED FOR 1.6 GPF). WATER CLOSET SHALL BE FITTED WITH OPEN FRONT SOLID WHITE PLASTIC ANTI-MICROBIAL SEAT. BATTERY POWERED FLUSH VALVE SHALL BE MOUNTED ON OPEN SIDE OF ROOM. FIXTURE: AMERICAN STANDARD MODEL NO. 3043.001 OR APPROVED EQUAL FLUSH VALVE: AMERICAN STANDARD MODEL NO. 6065.161.002 OR APPROVED EQUAL SEAT: AMERICAN STANDARD MODEL NO. 5901.100 OR APPROVED EQUAL	---	1"	4"	2"	16-1/2" RIM HEIGHT / FLOOR MOUNTED / FLUSH VALVE
UR	URINAL	WALL MOUNTED, WALL OUTLET, VITREOUS CHINA URINAL AND EXTENDED RIM (14-7/16") AND DESIGNED FOR 0.5 GPF. INCLUDES ANTI-BACKSPLASH WALL. BATTERY POWERED FLUSH VALVE SHALL BE MOUNTED ON OPEN SIDE OF ROOM. FIXTURE: AMERICAN STANDARD MODEL NO. 6002.001 OR APPROVED EQUAL. FLUSH VALVE: AMERICAN STANDARD MODEL NO. 6063051.002 OR APPROVED EQUAL.	---	3/4"	2"	2"	17" RIM HEIGHT / WALL MOUNTED / FLUSH VALVE
LAV-1	LAVATORY-1	WALL MOUNTED, 20" x 18", WHITE VITREOUS CHINA LAVATORY WITH RECESSED SELF-DRAINING DECK. SINGLE CONTROL CENTERSET FAUCET WITH LEVER HANDLE. FAUCET SHALL BE PROVIDED WITH 0.35 GPM LAMINAR FLOW OUTLET. FIXTURE: AMERICAN STANDARD MODEL NO. 9024.001EC OR ALLROVED EQUAL FAUCET: AMERICAN STANDARD MODEL NO. 7500.175 OR APPROVED EQUAL CARRIER (IN WALL FLOOR MOUNT REQUIRED): JOSAM OR APPROVED EQUAL DRAIN: EBC OR APPROVED EQUAL BY MCGUIRE, DEARBORN P-TRAP: EBC OR APPROVED EQUAL BY MCGUIRE, DEARBORN SUPPLIES: EBC OR APPROVED EQUAL BY MCGUIRE, BRASSCRAFT MIXING VALVE: WATTS LGUSG-B	1/2"	1/2"	2"	1-1/2"	34" RIM HEIGHT / WALL MOUNTED / ADA COMPLIANT
LAV-2	LAVATORY-2	20-3/8" x 17-3/8 OVAL DROP IN SINK, WHITE VITREOUS CHINA LAVATORY WITH FRONT OVERFLOW. SINGLE CONTROL CENTERSET FAUCET WITH LEVER HANDLE. FAUCET SHALL BE PROVIDED WITH 0.35 GPM LAMINAR FLOW OUTLET. FIXTURE: AMERICAN STANDARD MODEL NO. 0475247 OR APPROVED EQUAL FAUCET: AMERICAN STANDARD MODEL NO. 7500.175 OR APPROVED EQUAL CARRIER: JOSAM OR APPROVED EQUAL. DRAIN: EBC OR APPROVED EQUAL BY MCGUIRE, DEARBORN P-TRAP: EBC OR APPROVED EQUAL BY MCGUIRE, DEARBORN SUPPLIES: EBC OR APPROVED EQUAL BY MCGUIRE, BRASSCRAFT MIXING VALVE: WATTS LGUSG-B	1/2"	1/2"	2"	1-1/2"	34" RIM HEIGHT / DROP IN/ ADA COMPLIANT
HS-1	HAND SINK 1 UNDERMOUNT SINK	14-1/2" x 14-1/2" x 7" UNDERMOUND SINGLE BOWL SINK. MANUFACTURED FROM 18 GAUGE 304 STAINLESS STEEL, WITH A LUSTROUS SATIN FINISH, REAR CENTER DRAIN PLACEMENT. FAUCET SHALL BE PROVIDED WITH 1.5 GPM LAMINAR FLOW. FIXTURE: ELKAY MODEL NO. ELUH1212 OR APPROVED EQUAL FAUCET: AMERICAN STANDARD MODEL NO. 7500.180 OR APPROVED EQUAL CARRIER: JOSAM OR APPROVED EQUAL DRAIN: EBC OR APPROVED EQUAL BY MCGUIRE, DEARBORN P-TRAP: EBC OR APPROVED EQUAL BY MCGUIRE, DEARBORN SUPPLIES: EBC OR APPROVED EQUAL BY MCGUIRE, BRASSCRAFT MIXING VALVE: WATTS LGUSG-B	1/2"	1/2"	2"	1-1/2"	UNDERMOUNTED
HS-2	HAND SINK 2 WALL MOUNTED	20-1/2" x 18-1/4" WALL MOUNTED SINGLE BOWL SINK. VITREOUS CHINA, FRONT OVERFLOW, AND SELF-DRAINING. FAUCET SHALL BE PROVIDED WITH 1.5 GPM LAMINAR FLOW OUTLET. FIXTURE: AMERICAN STANDARD MODEL NO. 0355.012 OR APPROVED EQUAL. FAUCET: AMERICAN STANDARD MODEL NO. 7500.180 OR APPROVED EQUAL CARRIER: JOSAM OR APPROVED EQUAL DRAIN: EBC OR APPROVED EQUAL BY MCGUIRE, DEARBORN P-TRAP: EBC OR APPROVED EQUAL BY MCGUIRE, DEARBORN SUPPLIES: EBC OR APPROVED EQUAL BY MCGUIRE, BRASSCRAFT MIXING VALVE: WATTS LGUSG-B	1/2"	1/2"	1-1/2"	1-1/2"	WALL MOUNTED
KS	KITCHEN SINK UNDERMOUNT SINK	33" x 22" UNDERMOUNT, DOUBLE BOWL SINK. MANUFACTURED FROM 18 GAUGE 304 STAINLESS STEEL, WITH A LUSTROUS FINISH, REAR CENTER DRAIN PLACEMENT. FAUCET SHALL BE PROVIDED WITH 1.8 GPM LAMINAR FLOW OUTLET. FIXTURE: ELKAY MODEL NO. ECTSRA33229TBG OR APPROVED EQUAL. FAUCET: DELTA MODEL NO. 6959 OR APPROVED EQUAL GARBAGE DISPOSAL: INSINKERATOR BADGER 5 OR APPROVED EQUAL. CARRIER: JOSAM OR APPROVED EQUAL DRAIN: EBC OR APPROVED EQUAL BY MCGUIRE, DEARBORN P-TRAP: EBC OR APPROVED EQUAL BY MCGUIRE, DEARBORN SUPPLIES: EBC OR APPROVED EQUAL BY MCGUIRE, BRASSCRAFT MIXING VALVE: WATTS LGUSG-B	1/2"	1/2"	2"	1-1/2"	UNDERMOUNTED
SS	SCRUB SINK	SEE STERIS DRAWINGS FOR MORE INFORMATION. FIXTURE: STERIS TO PROVIDE. CARRIER: STERIS TO PROVIDE. DRAIN: EBC OR APPROVED EQUAL BY MCGUIRE, DEARBORN P-TRAP: EBC OR APPROVED EQUAL BY MCGUIRE, DEARBORN SUPPLIES: EBC OR APPROVED EQUAL BY MCGUIRE, BRASSCRAFT MIXING VALVE: WATTS LGUSG-B	1/2"	1/2"	1-1/2"	1-1/2"	WALL MOUNTED
SH	SHOWER	36" x 36" x 75-1/4" ACRYLIC SHOWER STALL WITH CENTER DRAIN AND FOLDING SEAT. HAND HELD SHOWER VALVE WITH ADJUSTABLE SLIDE BAR SHALL BE PROVIDED WITH 1.8 GP LAMINAR FLOW OUTLET. SHOWER: AQUATIC BATH MODEL NO. 1363BFSD VALVE: AMERICAN STANDARD MODEL NO. 9238759	3/4"	3/4"	3"	1-1/2"	WALL MOUNTED (ALCOVE)
WCB-1	WATER CONNECTION BOX 1	SINGLE OUTLET, PLASTIC WATER CONNECTION BOX WITH WATER HAMMER ARRESTOR. FIXTURE: OATEY MODEL 39131.	---	1/2"	---	---	WALL MOUNTED/ AFF 42"
WCB-2	WATER CONNECTION BOX 2	DOUBLE OUTLET, PLASTIC WATER CONNECTION BOX WITH WATER HAMMER ARRESTOR AND WASTE & VENT CONNECTIONS. FIXTURE: OATEY MODA MODEL NO. 37357.	---	1/2"	2"	1-1/2"	WALL MOUNTED/ AFF 42"
FS	FLOOR SINK	CAST IRON SQUARE BODY, LIGHT DUTY GRATE WITH 1/2" SLOTTED OPENINGS, WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, COMPLETE WITH WHITE ABS ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER. FIXTURE: ZURN 71900 OR APPROVED EQUAL.	---	1/2"	4"	2"	FLOOR MOUNTED
HB	HOSE BIBB	AUTOMATIC DRAINING, FREEZELESS WALL HYDRANTS WITH SINGLE CHECK HOSE CONNECTION ANTI-SIPHON VACUUM BREAKERS. HYDRANTS DRAIN AS THE HANDLE IS SHUT OFF, EVEN IF A HOSE IS ATTACHED. EXTERIOR WALL MOUNTED. FIXTURE: WOODFORD B65	---	3/4"	---	---	EXTERIOR WALL MOUNTED
NFHB	NO FREEZE HOSE BIBB	FREEZELESS SANITARY ROOF HYDRANT, NO DRAIN LINE REQUIRED. VARIABLE FLOW PLUNGER. HOSE CONNECTION BACKFLOW PREVENTOR. 3/4" NPT FEMALE OUTLET CONNECTION. MOUNTING SYSTEM: CAST IRON HYDRANT SUPPORT, EPDM BOOT COVERS WELL SEAL AND TOP OF HYDRANT SUPPORT. FIXTURE: WOODFORD SRH-MS	---	3/4"	---	---	FLOOR MOUNTED
FD	FLOOR DRAIN	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS. PROVIDE WITH TRAP SEAL. FIXTURE: ZURN 7415B OR APPROVED EQUAL	---	---	3"	1-1/2"	FLOOR MOUNTED
RD/OF	ROOF DRAIN AND OVERFLOW	SINGLE OUTLET, PLASTIC ESTER CONNECTION BOX WITH WATER HAMMER ARRESTOR. FIXTURE: ZURN MODEL NO. Z163 OR APPROVED EQUAL.	---	---	4"	---	ROOF MOUNTED
DS	DOWNSPOUT	LAMBS TONGUE DOWNSPOUT NOZZLE, ALL NICKLE BRONZE BODY. FIXTURE: ZURN MODEL NO. Z199 OR APPROVED EQUAL.	---	---	4"	---	EXTERIOR WALL MOUNTED

NOTES:
1. PROVIDE ANGLE STOP VALVES, SUPPLY TUBING, P-TRAPS, ESCUTCHEON PLATES, CARRIERS, ETC., FOR COMPLETE INSTALLATION.
2. ALL SUPPLY AND WASTE LINES SHALL BE CONCEALED IN ADJACENT WALL, FLOOR AND CEILING, UNLESS NOTED OTHERWISE.

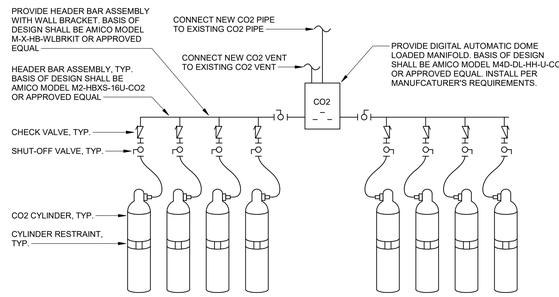
ALTERNATE #2 - SCRUB SINK PROVIDE BY GENERAL CONTRATOR

SS	SCRUB SINK	STAINLESS STEEL 2-STATION WALL-MOUNTED SURGEON SCRUB SINK WITH SENSOR ACTIVATED FAUCETS AND KNEE ACTIVATED SOAP DISPENSER. FIXTURE: SLOAN MODEL ESS-3200 OR APPROVED EQUAL CARRIER: WALL HANGER AS RECOMMENDED/PROVIDED BY SLOAN DRAIN: EBC OR APPROVED EQUAL BY MCGUIRE, DEARBORN P-TRAP: EBC OR APPROVED EQUAL BY MCGUIRE, DEARBORN SUPPLIES: EBC OR APPROVED EQUAL BY MCGUIRE, BRASSCRAFT MIXING VALVE: WATTS LFGUS-B	1/2"	1/2"	1-1/2"	1-1/2"	WALL MOUNTED

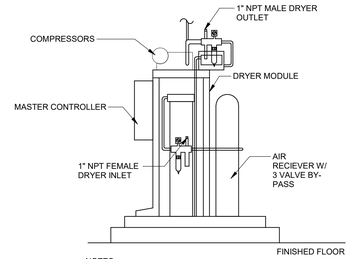


NOTES:
1. THE DRAINAGE PIPING FROM THE WATER CONNECTION BOX UP TO AND INCLUDING THE P-TRAP SHALL BE ACID WASTE TYPE. THE BASIS OF DESIGN IS ORION OR EQUAL. CAST IRON PIPE IS PERMITTED AFTER THE P-TRAP.
2. PROVIDE A BACTERIA TEST AT FINAL INSTALLATION.

1 / P002 NEPTUNE DOCKING STATION DETAIL
NOT TO SCALE



2 / P002 MANIFOLD DETAIL
NOT TO SCALE



NOTES:
1. FLEXIBLE CONNECTIONS ARE TO BE INSTALLED AT ALL PACKAGE EQUIPMENT CONNECTION POINTS.
2. ALL CLEARANCE REQUIREMENTS SHALL BE MET.

3 / P002 INTRUMENT AIR INSTALATION DETAIL
NOT TO SCALE

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1/6/2025

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RENOVATION - PHASE III
Myrtle Beach, South Carolina
for: HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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PLUMBING DETAIL AND SCHEDULES

SHEET:

P002

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MEDICAL GAS FIXTURE SCHEDULE

ITEM	FIXTURE TYPE	FIXTURE DESCRIPTION	OXYGEN	MEDICAL AIR	MEDICAL VACUUM	NITROGEN	NITROUS OXIDE	WAGD	MOUNTING HEIGHT / REMARKS / NOTES
O V S MA WAGD	OXYGEN, VACUUM, SLIDE, MEDICAL AIR, WAGD, OUTLETS	AMICO OHMEDA TYPE WALL MOUNTED GAS OUTLETS SHALL BE UL LISTED, GAS CERTIFIED, AND ARE FULLY COMPLIANT WITH THE NFPA 99-2018 EDITION. ALL OUTLETS SHAL BE 100% TESTED FOR FLOW, LEAKS AND CONNECTOR ATTACHMENTS. OUTLETS SHALL BE CLEANED FOR OXYGEN SERVICE IN THE MANUFACTURING PROCESS. FIXTURES: PROVIDE COMPLETE ASSEMBLY, WALL OUTLET (STANDARD TRIM PLATE) MODEL. OXYGEN: O-DISWALM-L-OXY VACUUM: O-DISWALM-L-VAC SLIDE: O-DISWALM-L-SLIDE MEDICAL AIR: O-DISWALM-L-AIR WAGD: O-DISWALM-L-WAG	1/2"	3/4"	1/2"	1/2"	1/2"	3/4"	WALL MOUNTED / REFER TO ARCHITECTUAL HEADWALL
O V MA N N2O WAGD	OXYGEN, VACUUM, MEDICAL AIR, NITROGEN, NITROUS OXIDE, WAGD, OUTLETS	AMICO OHMEDA TYPE CEILING MOUNTED GAS OUTLETS SHALL BE UL LISTED, GAS CERTIFIED, AND ARE FULLY COMPLIANT WITH THE NFPA 99-2018 EDITION. ALL OUTLETS SHAL BE 100% TESTED FOR FLOW, LEAKS AND CONNECTOR ATTACHMENTS. OUTLETS SHALL BE CLEANED FOR OXYGEN SERVICE IN THE MANUFACTURING PROCESS. FIXTURES: PROVIDE COMPLETE ASSEMBLY, CEILING OUTLET (STANDARD TRIM PLATE) MODEL. OXYGEN: O-DISCEI-L-OXY VACUUM: O-DISCEI-L-VAC MEDICAL AIR: O-DISCEI-L-AIR NITROUS OXIDE: O-DISCEI-L-N2O NITROGEN: O-DISCEI-L-NIT WAGD: O-DISCEI-L-WAG	1/2"	3/4"	1/2"	1/2"	1/2"	3/4"	CEILING MOUNTED
ZVB - #	ZONE VALVE BOX - # NUMBER OF OUTLETS	VALVES SHALL BE FULL PORT, DOUBLE SEAL, BALL-TYPE WITH THREE PIECE BRONZE/BRASS BODY AND A CHROME PLATED BRASS BALL. VALVES SHALL BE DESIGNED FOR A MAXIMUM WORKING PRESSURE OF 600 PSIG WOG OR VACUUM SERVICE TO 29" HG. VALVE BODY SHALL HAVE REINFORCED PTFE BALL SEAT AND REINFORCED PTFE STEM SEALS, AND STEM SHALL BE BLOWOUT PROOF. THE ZONE VALVE BOX SHALL BE CONSTRUCTED OF 18-GAUGE STEEL WITH WHITE EPOXY FINISH. THE ZONE VALVE BOX SHALL HAVE A SLIDING, OPAQUE DOOR WITH PULL RING AND CLEAR GAUGE WINDOW. THE DOOR SHALL BE CAPABLE OF SLIDING TO THE RIGHT TO FACILITATE INSTALLATION REQUIREMENTS. FIXTURE: BEACON MEDAES ZONE VALVE BOX ASSEMBLY MODEL SSB-821-01 OR APPROVED EQUAL. ZVB-2: ZVB2-AC-ENG ZVB-5: ZVB5-AAACC-ENG	---	---	---	---	---	---	WALL MOUNTED / REFER TO MANUFACTURERS REQUIRMENTS / SEE MEDICAL GAS PLANS FOR PIPE SIZES
AAP	AREA ALARM PANEL	MEDICAL GAS ALARM PANEL SHALL PROVIDE ALARM SIGNAL AS REQIRED BY NFPA 99-2018 EDITION. THE ALARM SHALL BE ETL LISTED TO UL 1069 AND CSA NO. 601.1-M90/ THE FIXTURE SHALL FEATURE A GREEN POWER ON INDICATOR, A RED FLASHING INDICATOR SHALL ILLUMINATE WHEN IN ALARM.THE DIGITAL LED DISPLAY SHALL CONTINUOUSLY INDICATE THE PRESSURE OR VACUUM IN THE PIPING SYSTEM BEING MONITORED, PROVIDE BLANK OVERLAY TO FILL UNUSED ALARM PANEL LOCATIONS. FIXTURE: BEACONMEDAES MODEL NO. SSB-835-02 OR APPROVED EQUAL.	---	---	---	---	---	---	WALL MOUNTED
CZVB	COMBINED ZONE VALVE BOX AND AREA ALARM PANEL	MEDICAL GAS COMBINATION ALARM PANEL AND ZONE VALVE BOX SHALL PROVIDE ALARM SIGNAL AS REQIRED BY NFPA 99-2018 EDITION. THE ALARM SHALL BE ETL LISTED TO UL 1069 AND CSA NO. 601.1-M90/ THE FIXTURE SHALL FEATURE A GREEN POWER ON INDICATOR, A RED FLASHING INDICATOR SHALL ILLUMINATE WHEN IN ALARM.THE DIGITAL LED DISPLAY SHALL CONTINUOUSLY INDICATE THE PRESSURE OR VACUUM IN THE PIPING SYSTEM BEING MONITORED, PROVIDE BLANK OVERLAY TO FILL UNUSED ALARM PANEL LOCATIONS. FIXTURE: BEACONMEDAES MODEL NO. SSB-825-01 OR APPROVED EQUAL.	---	---	---	---	---	---	WALL MOUNTED / REFER TO MANUFACTURERS REQUIRMENTS / SEE MEDICAL GAS PLANS FOR PIPE SIZES
MA	MEDICAL AIR MANIFOLD	AUTOMATIC CHANGEOVER MEDICAL MANIFOLD WITH HIGH FLOW REGULATORS, LOW LOSS TECHNOLOGY, SELF DIAGNOSIS SOFTWARE, ETC. COMPLIANT PER NFPA 99 - 2018 EDITION. MEDICAL AIR: MNE-HH4x4-AIR-AS OR APPROVED EQUAL.	---	---	---	---	---	---	WALL MOUNTED / REFER TO MANUFACTURERS REQUIRMENTS / SEE MEDICAL GAS PLANS FOR PIPE SIZES
NIT	NITROGEN MANIFOLD	NITROGEN: MNE-HH6x6-N2-AS OR APPROVED EQUAL.							
O2	OXYGEN MONIFOLD	OXYGEN: MNE-2x2-LL-O2-B-S OR APPROVED EQUAL. OXYGEN RESERVE: RHE-14-O2-S OR APPROVED EQUAL.							

MEDICAL EQUIPMENT SCHEDULE

MARK	EQUIPMENT	RATED PSIG	SYSTEM CAPACITY (SCFM)	PUMP QUANTITY	MOTOR HP	RECIEVER SIZE	SYSTEM FLA (460V)	MANUFACTURER	MODEL
VAC	VACUUM PUMP	150	52	2	6.4	200	18	BEACON MEDAES	VHS06D-200V-D_V
IAC	INSTRUMENT AIR COMPRESSOR	120	28.2	2	2	80	13	PATTONS MEDICAL	68L-22-052

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Myrtle Beach, South Carolina
for: HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
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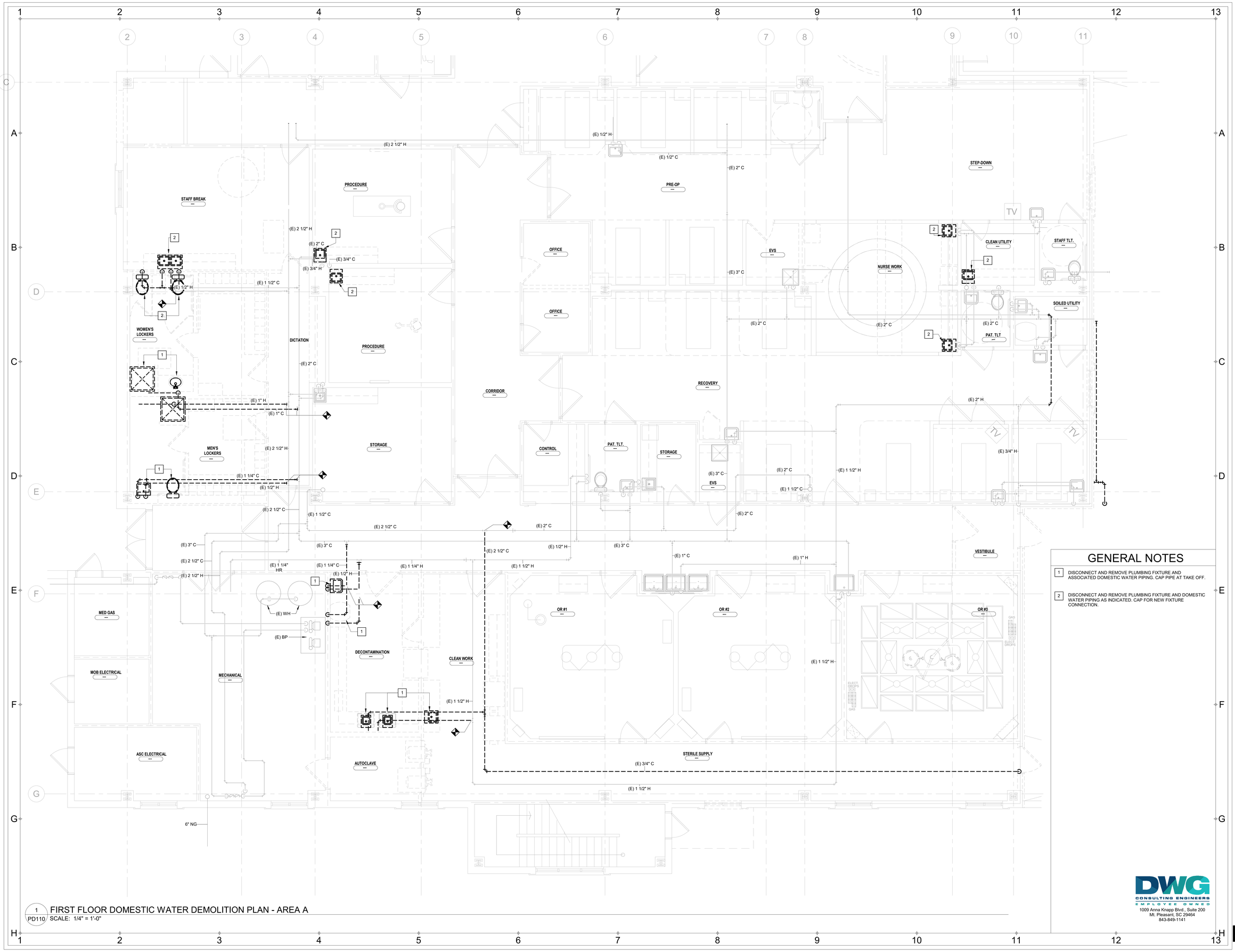
PLUMBING SCHEDULES CONTINUED

SHEET:

P003



GENERAL NOTES

1. DISCONNECT AND REMOVE PLUMBING FIXTURE AND ASSOCIATED DOMESTIC WATER PIPING. CAP PIPE AT TAKE OFF.
2. DISCONNECT AND REMOVE PLUMBING FIXTURE AND DOMESTIC WATER PIPING AS INDICATED. CAP FOR NEW FIXTURE CONNECTION.

1 PD110 FIRST FLOOR DOMESTIC WATER DEMOLITION PLAN - AREA A
SCALE: 1/4" = 1'-0"

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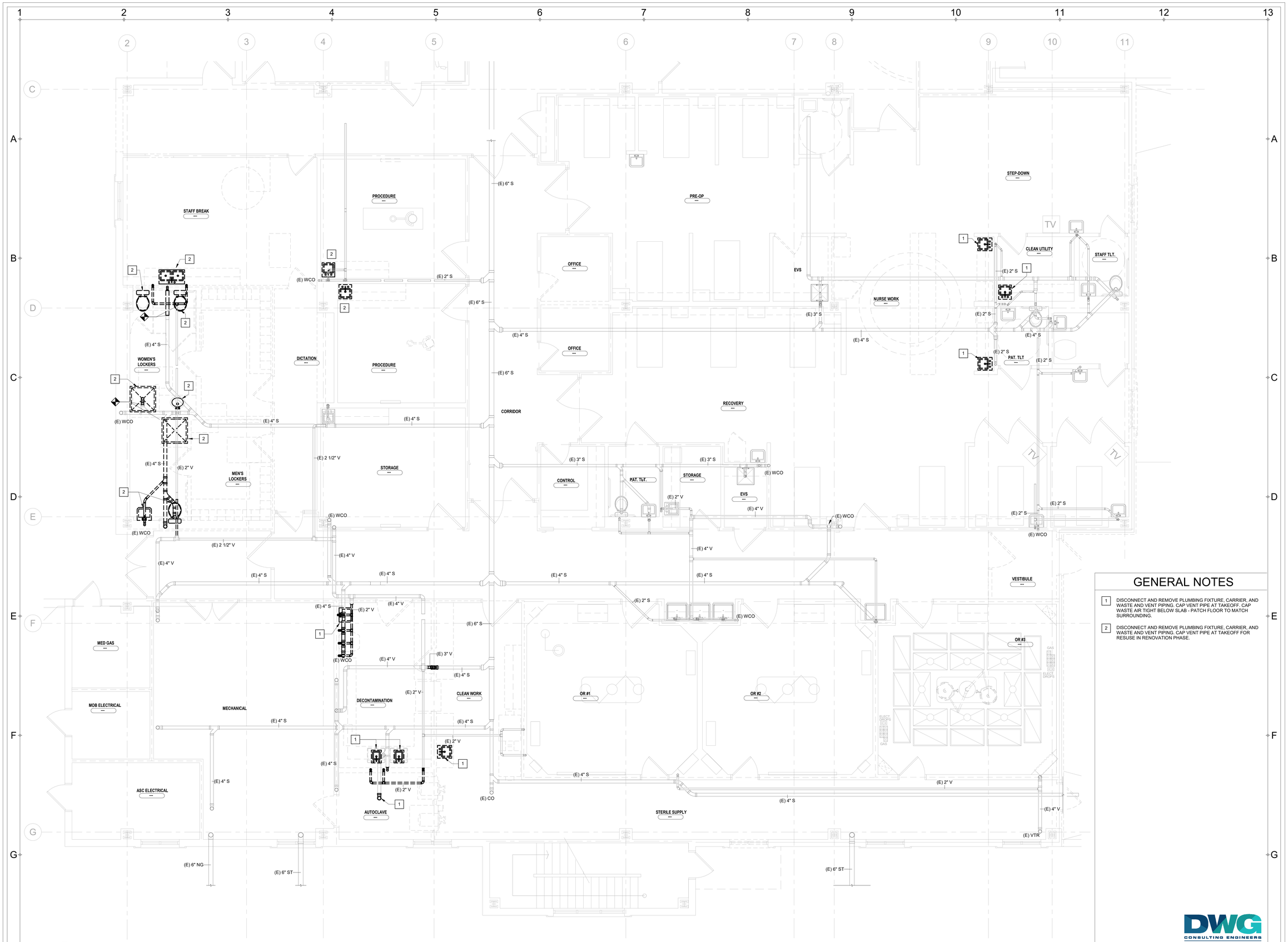
FIRST FLOOR DOMESTIC WATER DEMOLITION PLAN - AREA A

SHEET:
PD110



1 PD210 FIRST FLOOR SANITARY & VENT DEMOLITION PLAN - AREA A
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. DISCONNECT AND REMOVE PLUMBING FIXTURE, CARRIER, AND WASTE AND VENT PIPING. CAP VENT PIPE AT TAKEOFF. CAP WASTE AIR TIGHT BELOW SLAB - PATCH FLOOR TO MATCH SURROUNDING.
2. DISCONNECT AND REMOVE PLUMBING FIXTURE, CARRIER, AND WASTE AND VENT PIPING. CAP VENT PIPE AT TAKEOFF FOR RESUSE IN RENOVATION PHASE.

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FIRST FLOOR SANITARY & VENT DEMOLITION PLAN - AREA A

SHEET:
PD210

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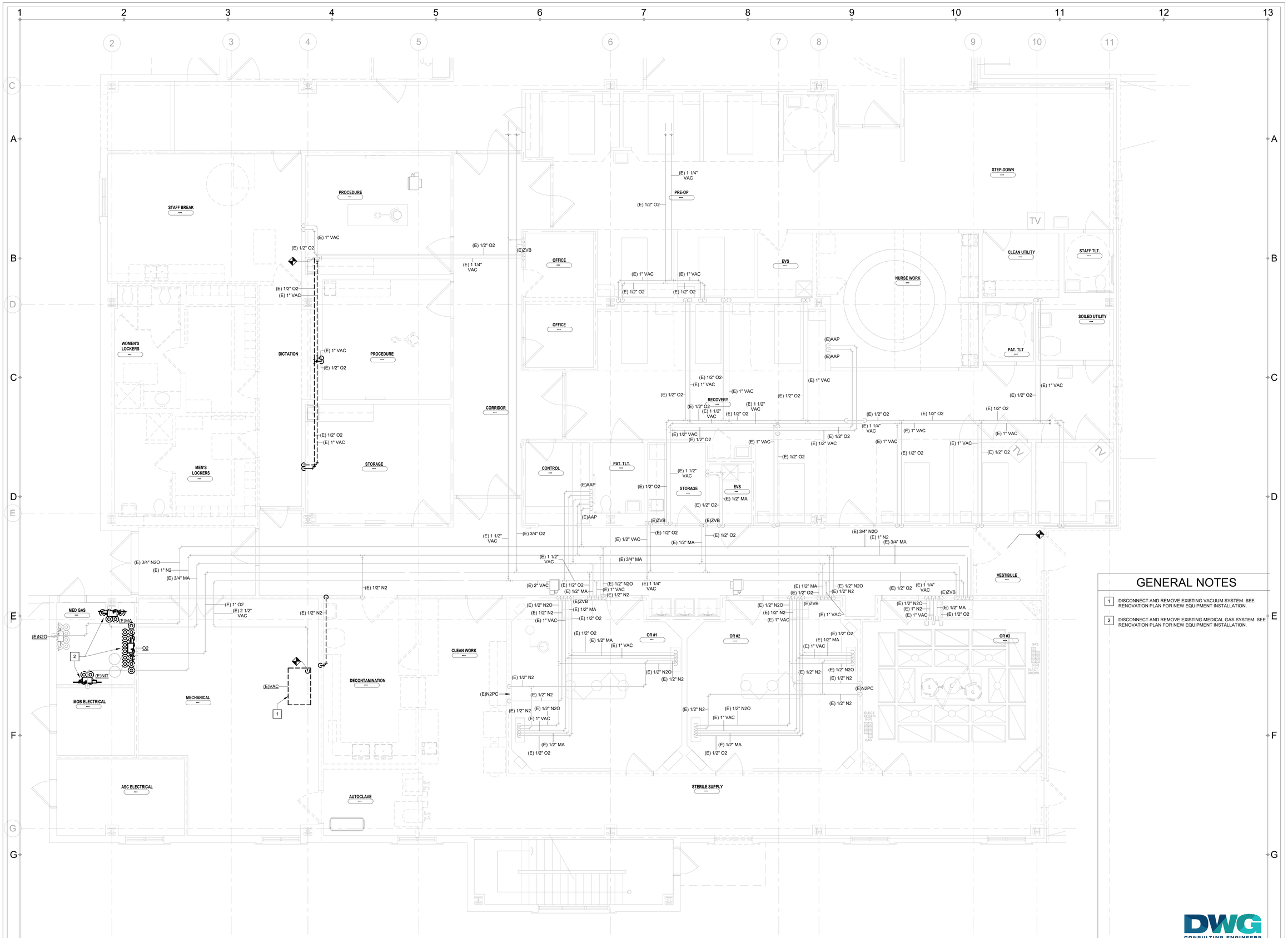

GENERAL NOTES

1. DISCONNECT AND REMOVE EXISTING VACUUM SYSTEM. SEE RENOVATION PLAN FOR NEW EQUIPMENT INSTALLATION.
2. DISCONNECT AND REMOVE EXISTING MEDICAL GAS SYSTEM. SEE RENOVATION PLAN FOR NEW EQUIPMENT INSTALLATION.

1 PD310 FIRST FLOOR MED GAS DEMOLITION PLAN - AREA A
SCALE: 1/4" = 1'-0"

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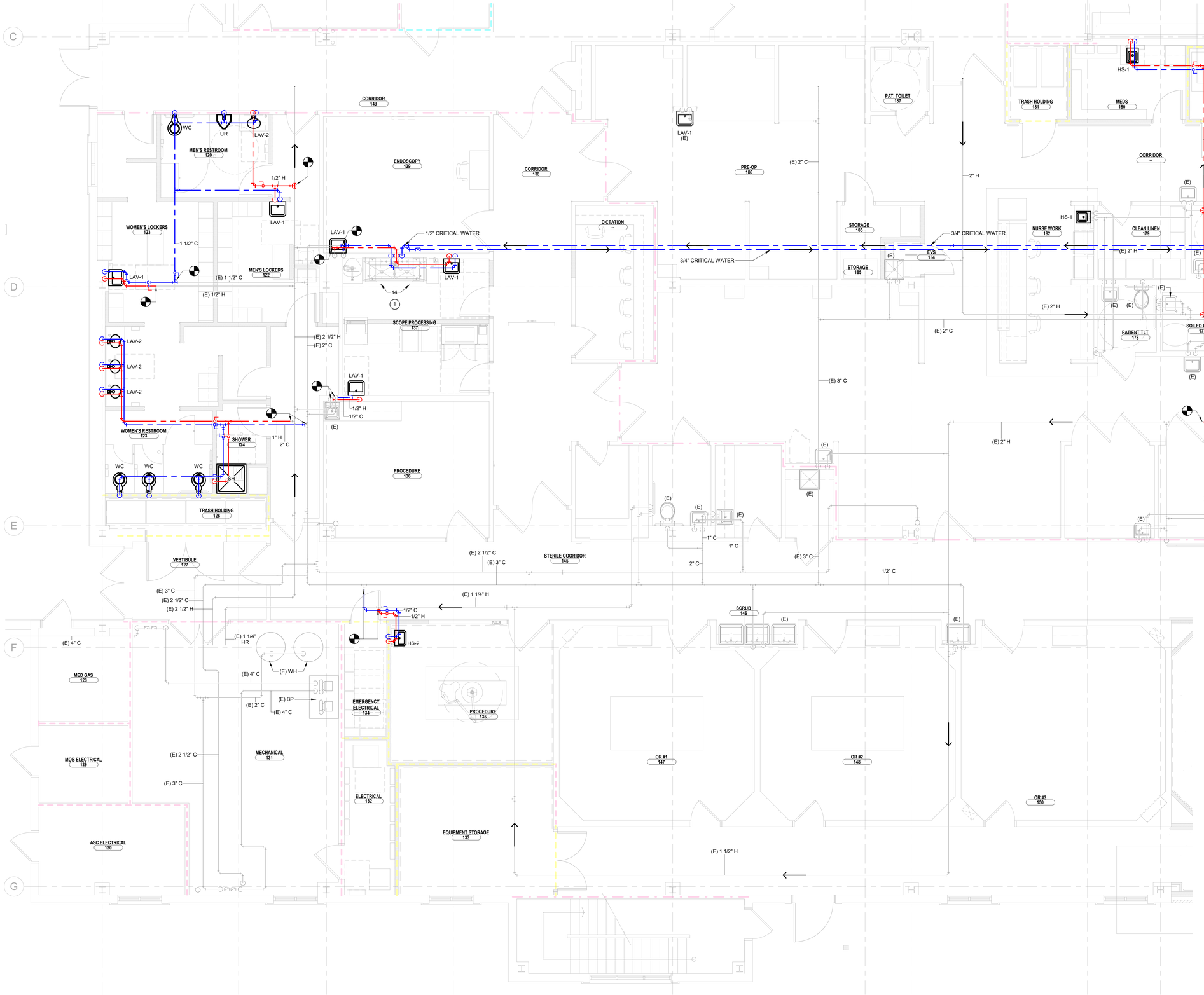
FIRST FLOOR MED GAS DEMOLITION PLAN - AREA A

SHEET:

PD310



1 P-110 FIRST FLOOR DOMESTIC WATER PLAN - AREA A
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. WHERE RUNOUT SIZE IS NOT SHOWN, REFER TO PLUMBING FIXTURE SCHEDULE FOR SIZE.
2. PIPING ON THIS PLAN IS SHOWN ROUTED CONCEALED IN WALLS AND ABOVE CEILINGS, UNO.
3. PROVIDE WATER HAMMER ARRESTORS ON THE HOT AND COLD WATER PIPING AT EACH GROUP OF FIXTURES. HAMMER ARRESTORS NOT SHOWN FOR CLARITY. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO DETAIL FOR ADDITIONAL INFORMATION.
4. ISOLATION VALVES SHALL BE PROVIDED AT ALL BRANCH TAPS.

RENOVATION KEYNOTES

1 FOR DOMESTIC WATER CONNECTION INFORMATION, REFER TO SPD EQUIPMENT CONNECTION SCHEDULE ON SHEET P-111.

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Myrtle Beach, South Carolina

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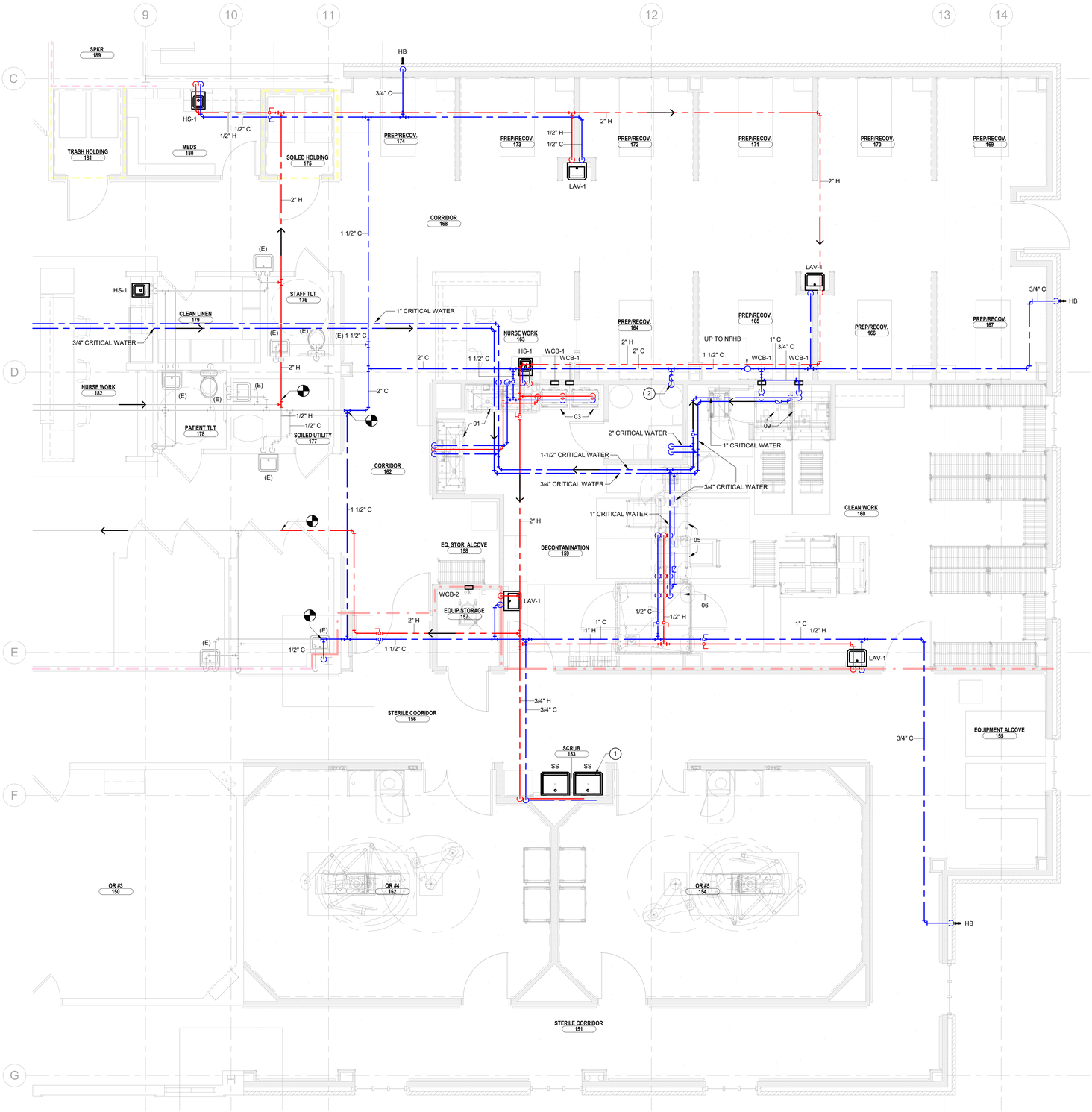
FIRST FLOOR DOMESTIC WATER PLAN - AREA A

SHEET:

P-110



1 P-111 FIRST FLOOR DOMESTIC WATER PLAN - AREA B
SCALE: 1/4" = 1'-0"

RENOVATION KEYNOTES

1. EQUIPMENT TO BE PROVIDED BY STERIS AND INSTALLED BY CONTRACTOR.
2. PROVIDE 2" DOMESTIC WATER PIPNG FOR CRITICAL WATER EQUIPMENT. SEE STERIS DRAWINGS FOR MORE INFORMATION.

SPD EQUIPMENT CONNECTION SCHEDULE

TAG	COLD WATER	HOT WATER	CRITICAL WATER	WASTE	VENT	INSTRUMENT AIR
01	1/2"	1/2"	1/2"	1-1/2"	1-1/2"	1/4"
03	3/4"	3/4"	---	3/4"	---	---
05	1/2"	1/2"	1/2"	1-1/2"	1-1/2"	1/8"
06	1"	3/4"	3/4"	4"	2"	1/8"
09	3/4"	---	1/2"	1-1/2"	1-1/2"	1/2"
14	1/2"	1/2"	1/2"	1-1/2"	1-1/2"	1/4"

GENERAL NOTES

1. WHERE RUNOUT SIZE IS NOT SHOWN, REFER TO PLUMBING FIXTURE SCHEDULE FOR SIZE.
2. PIPING ON THIS PLAN IS SHOWN ROUTED CONCEALED IN WALLS AND ABOVE CEILINGS, UNO.
3. PROVIDE WATER HAMMER ARRESTORS ON THE HOT AND COLD WATER PIPING AT EACH GROUP OF FIXTURES. HAMMER ARRESTORS NOT SHOWN FOR CLARITY. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO DETAIL FOR ADDITIONAL INFORMATION.
4. ISOLATION VALVES SHALL BE PROVIDED AT ALL BRANCH TAPS.
5. PROVIDE UPONOR AQUAPEX PIPING FOR CRITICAL WATER LOOP AND STAINLESS STEEL COLD EXPANSION PEX SHUTOFF VALVE.

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Myrtle Beach, South Carolina

for: HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
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FIRST FLOOR DOMESTIC WATER PLAN - AREA B

SHEET:

P-111

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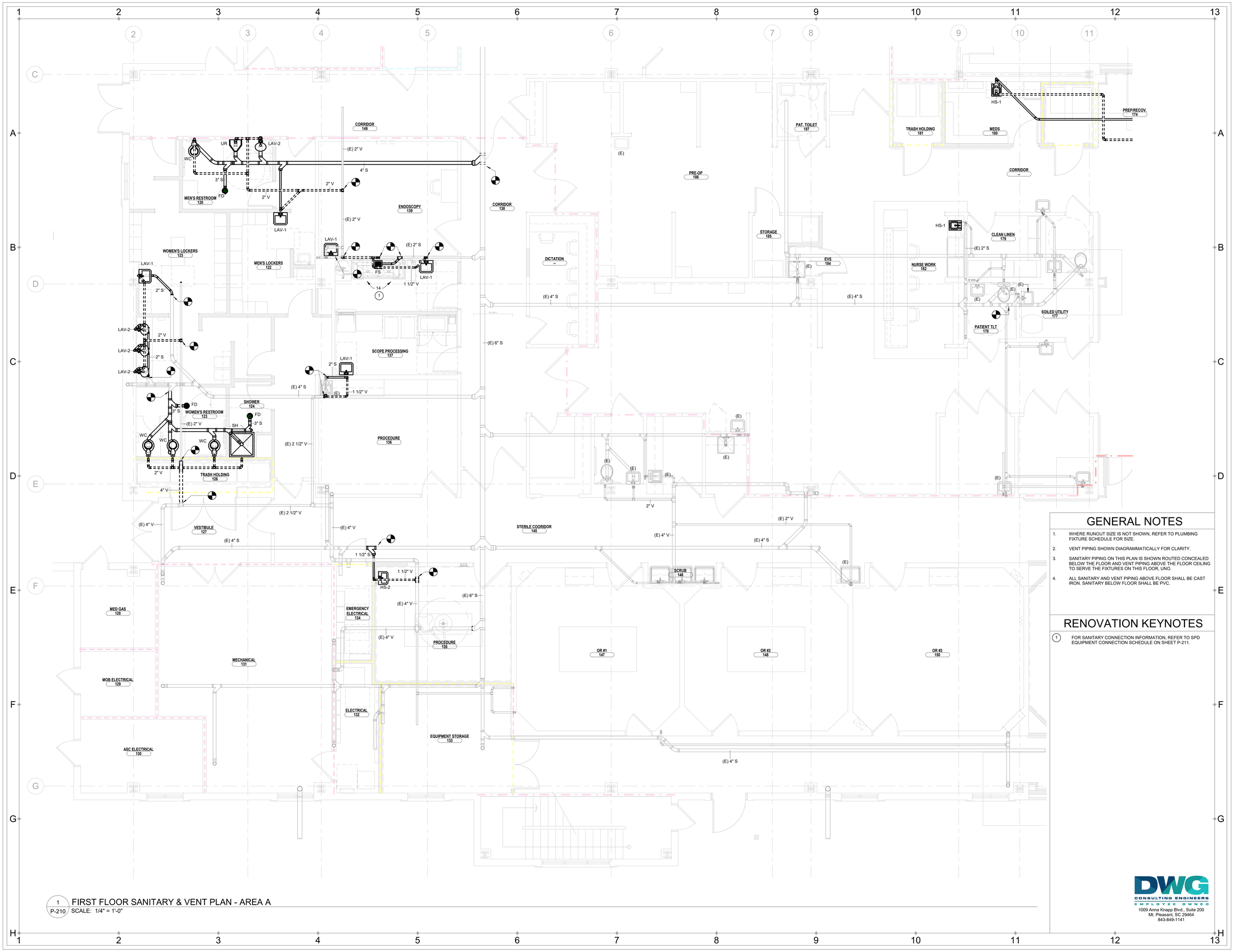

1 P-210 FIRST FLOOR SANITARY & VENT PLAN - AREA A
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. WHERE RUNOUT SIZE IS NOT SHOWN, REFER TO PLUMBING FIXTURE SCHEDULE FOR SIZE.
2. VENT PIPING SHOWN DIAGRAMMATICALLY FOR CLARITY.
3. SANITARY PIPING ON THIS PLAN IS SHOWN ROUTED CONCEALED BELOW THE FLOOR AND VENT PIPING ABOVE THE FLOOR CEILING TO SERVE THE FIXTURES ON THIS FLOOR, UNO.
4. ALL SANITARY AND VENT PIPING ABOVE FLOOR SHALL BE CAST IRON. SANITARY BELOW FLOOR SHALL BE PVC.

RENOVATION KEYNOTES

1. FOR SANITARY CONNECTION INFORMATION, REFER TO SPD EQUIPMENT CONNECTION SCHEDULE ON SHEET P-211.

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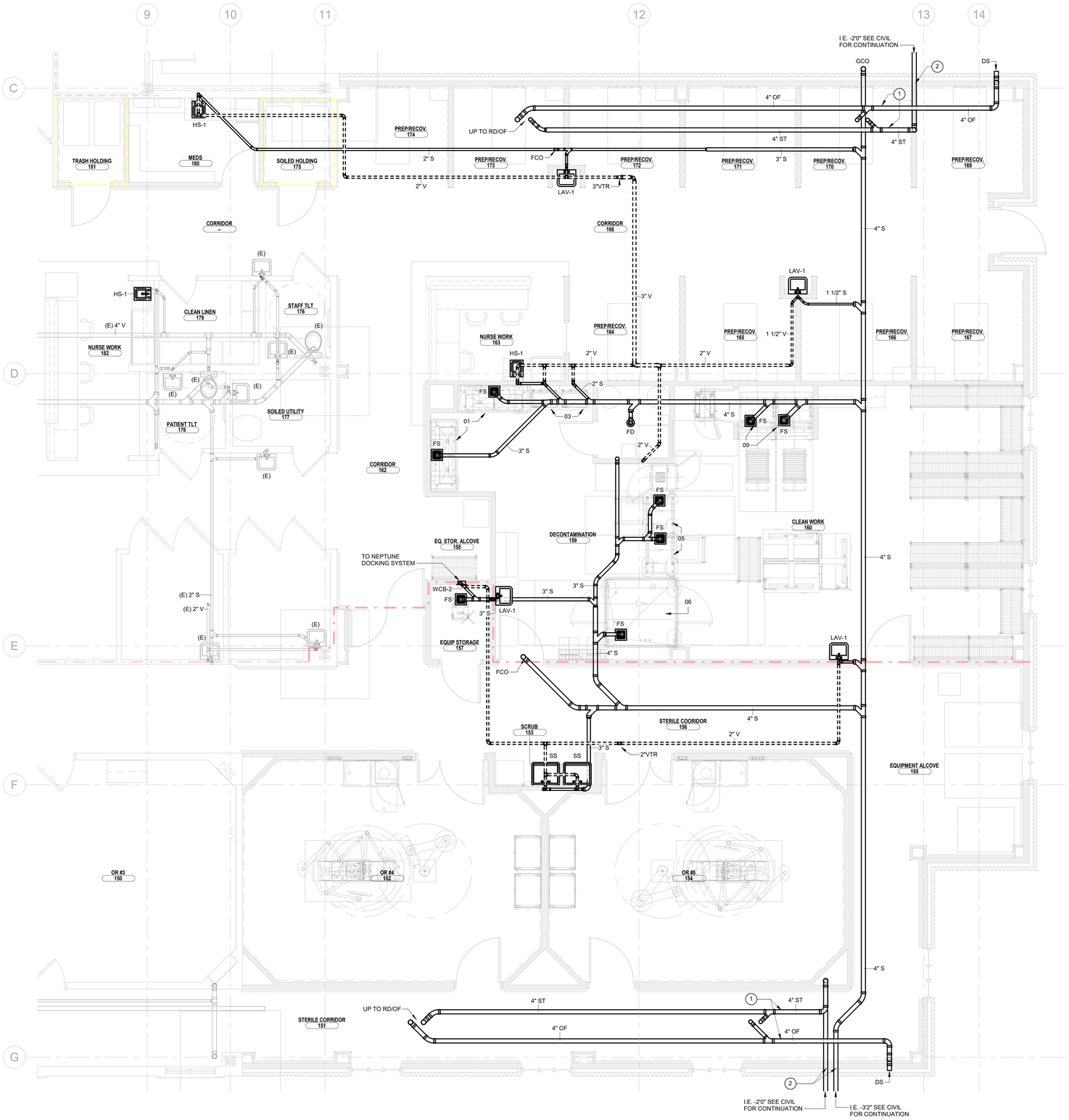
REVISIONS:

TITLE:

FIRST FLOOR SANITARY & VENT PLAN - AREA A

SHEET:

P-210



1 P-211 FIRST FLOOR SANITARY & VENT PLAN - AREA B
SCALE: 1/4" = 1'-0"

SPD EQUIPMENT CONNECTION SCHEDULE

TAG	COLD WATER	HOT WATER	CRITICAL WATER	WASTE	VENT	INSTRUMENT AIR
01	1/2"	1/2"	1/2"	1-1/2"	1-1/2"	1/4"
03	3/4"	3/4"	---	3/4"	---	---
05	1/2"	1/2"	1/2"	1-1/2"	1-1/2"	1/8"
06	1"	3/4"	3/4"	4"	2"	1/8"
09	3/4"	---	1/2"	1-1/2"	1-1/2"	1/2"
14	1/2"	1/2"	1/2"	1-1/2"	1-1/2"	1/4"

RENOVATION KEYNOTES

1. INCREASE PIPE SLOPE FROM 1/8" PER 12" TO 1/4" PER 12".
2. SANITARY PIPING WILL PASS UNDER FOOTING IN A DUCTILE PIPE SLEEVE EXTENDING 12" BEYOND BOTH SIDES OF FOOTING.

GENERAL NOTES

1. WHERE RUNOUT SIZE IS NOT SHOWN, REFER TO PLUMBING FIXTURE SCHEDULE FOR SIZE.
2. VENT PIPING SHOWN DIAGRAMMATICALLY FOR CLARITY.
3. SANITARY PIPING ON THIS PLAN IS SHOWN ROUTED CONCEALED BELOW THE FLOOR AND VENT PIPING ABOVE THE FLOOR CEILING TO SERVE THE FIXTURES ON THIS FLOOR, UNO.
4. ALL SANITARY AND VENT PIPING SHALL BE CAST IRON.

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Myrtle Beach, South Carolina
for: HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
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FIRST FLOOR SANITARY & VENT PLAN - AREA B

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P-211

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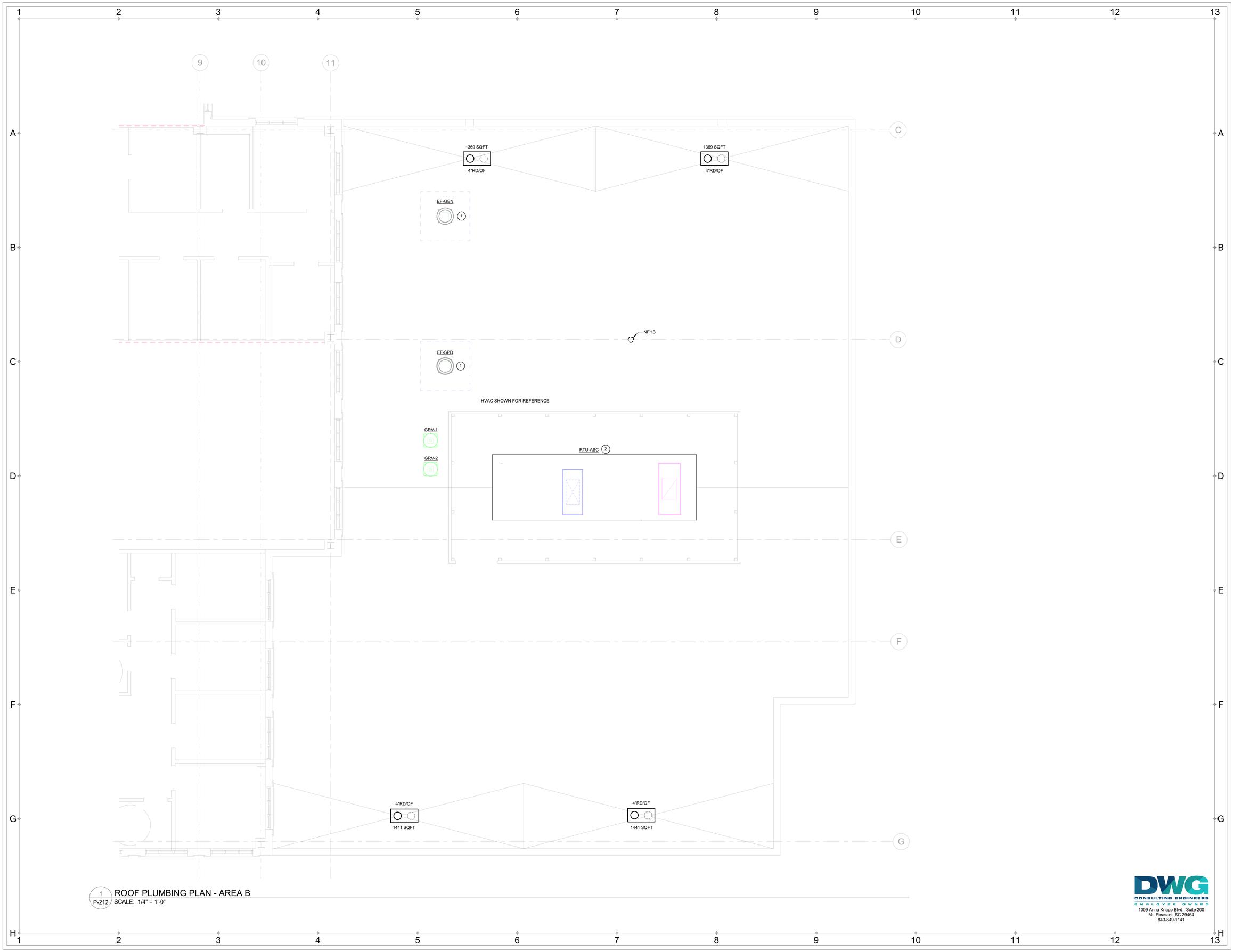

1 P-212 ROOF PLUMBING PLAN - AREA B
SCALE: 1/4" = 1'-0"

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ROOF PLUMBING PLAN - AREA B

SHEET:

P-212

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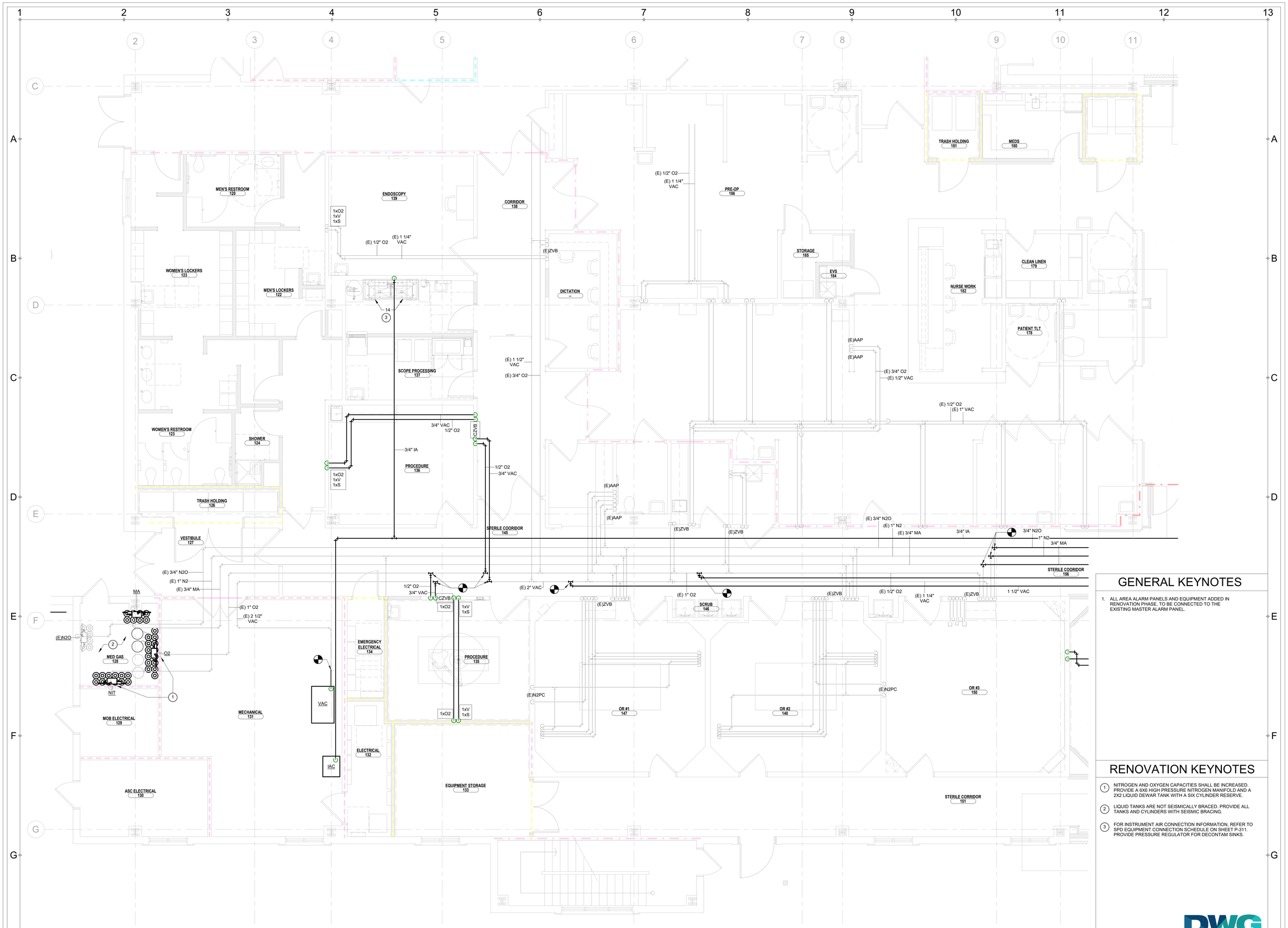

1 / P-310 FIRST FLOOR MED GAS PLAN - AREA A
SCALE: 1/4" = 1'-0"

GENERAL KEYNOTES

1. ALL AREA ALARM PANELS AND EQUIPMENT ADDED IN RENOVATION PHASE, TO BE CONNECTED TO THE EXISTING MASTER ALARM PANEL.

RENOVATION KEYNOTES

1. NITROGEN AND OXYGEN CAPACITIES SHALL BE INCREASED. PROVIDE A 6X6 HIGH PRESSURE NITROGEN MANIFOLD AND A 2X2 LIQUID DEWAR TANK WITH A SIX CYLINDER RESERVE.
2. LIQUID TANKS ARE NOT SEISMICALLY BRACED. PROVIDE ALL TANKS AND CYLINDERS WITH SEISMIC BRACING.
3. FOR INSTRUMENT AIR CONNECTION INFORMATION, REFER TO SPD EQUIPMENT CONNECTION SCHEDULE ON SHEET P-311. PROVIDE PRESSURE REGULATOR FOR DECONTAM SINKS.

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Myltle Beach, South Carolina

for: HCA South Atlantic

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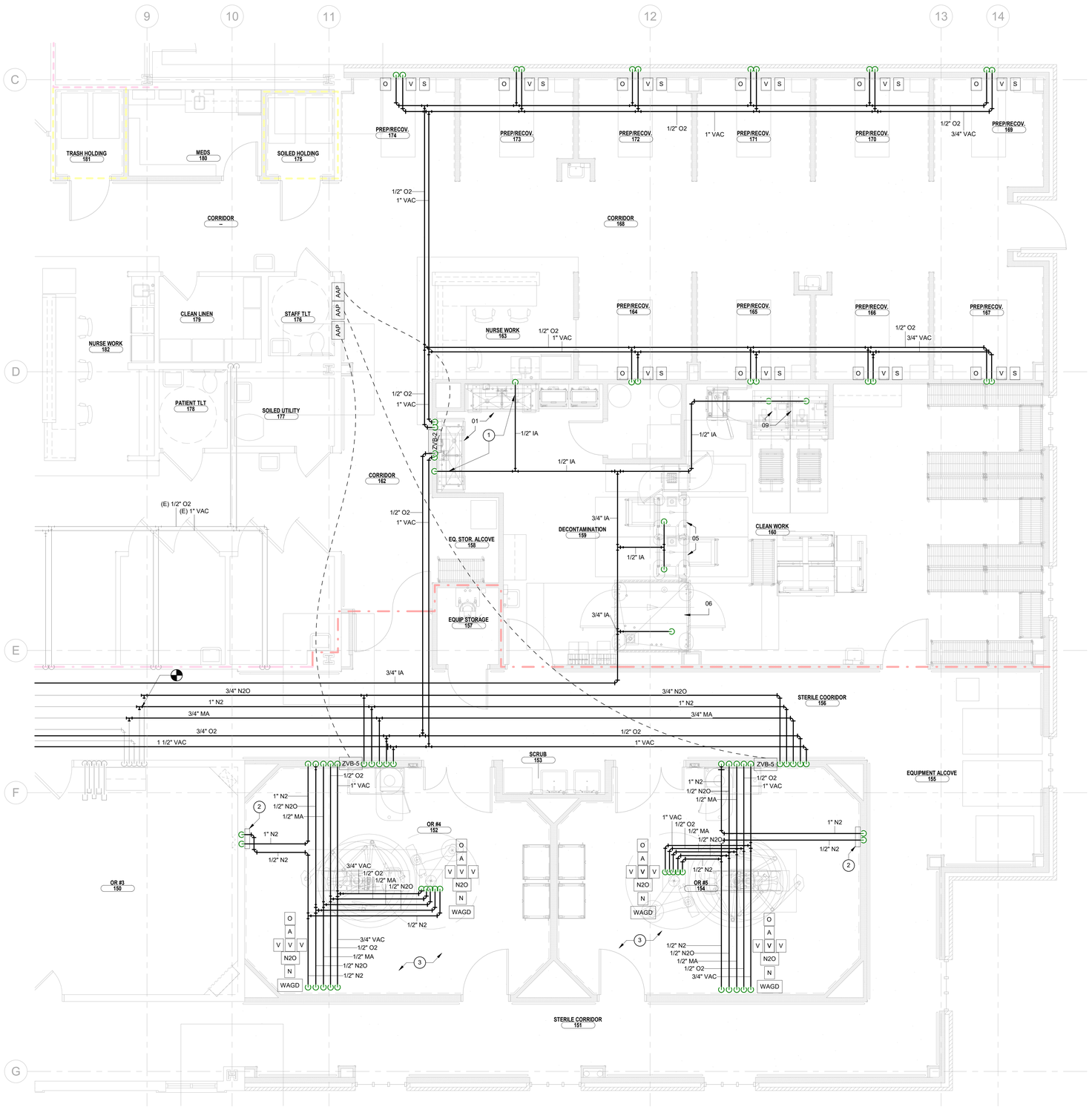
FIRST FLOOR MED GAS PLAN - AREA A

SHEET:

P-310



1 P-311 FIRST FLOOR MED GAS PLAN - AREA B
SCALE: 1/4" = 1'-0"

SPD EQUIPMENT CONNECTION SCHEDULE

TAG	COLD WATER	HOT WATER	CRITICAL WATER	WASTE	VENT	INSTRUMENT AIR
01	1/2"	1/2"	1/2"	1-1/2"	1-1/2"	1/4"
03	3/4"	3/4"	---	3/4"	---	---
05	1/2"	1/2"	1/2"	1-1/2"	1-1/2"	1/8"
06	1"	3/4"	3/4"	4"	2"	1/8"
09	3/4"	---	1/2"	1-1/2"	1-1/2"	1/2"
14	1/2"	1/2"	1/2"	1-1/2"	1-1/2"	1/4"

GENERAL KEYNOTES

1. ALL AREA ALARM PANELS AND EQUIPMENT ADDED IN RENOVATION PHASE, TO BE CONNECTED TO THE EXISTING MASTER ALARM PANEL.

RENOVATION KEYNOTES

1. PROVIDE PRESSURE REGULATOR FOR DECONTAM SINKS.
2. NITROGEN PRESSURE CONTROL PANEL.
3. PROVIDE CEILING MOUNTED MEDICAL GAS OUTLETS IN OR'S. REFER TO SCHEDULE ON SHEET P003 FOR MORE INFORMATION.

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FIRST FLOOR MED GAS PLAN - AREA B

SHEET:

P-311

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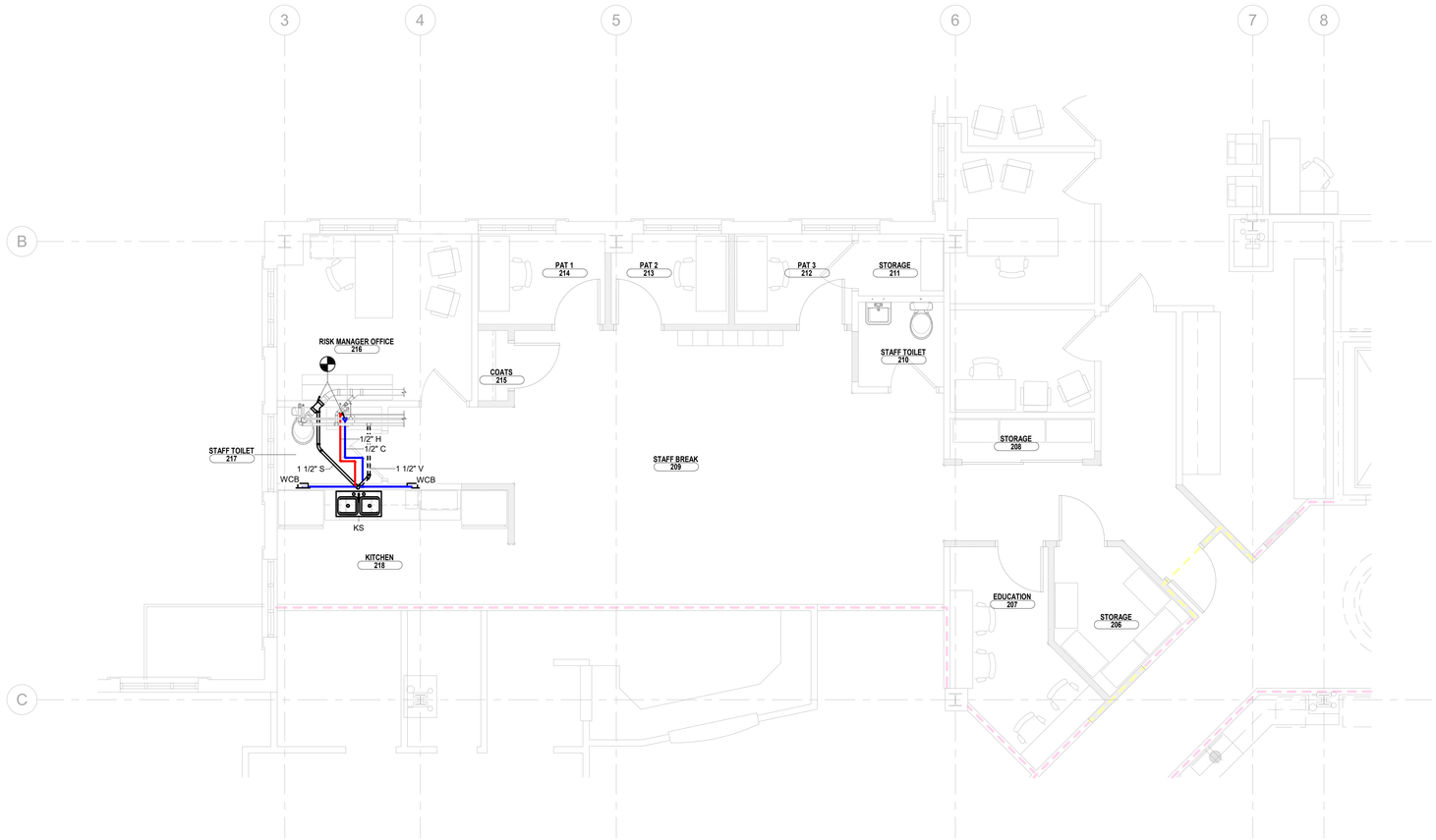

1 P-410 SECOND FLOOR PLUMBING PLAN
SCALE: 1/4" = 1'-0"

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SECOND FLOOR PLUMBING PLAN

SHEET:

P-410

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MECHANICAL SYSTEMS
SEISMIC AND WIND REQUIREMENTS

PER IBC-2021/ASCE 7-16

A. PER THE 2021 INTERNATIONAL BUILDING CODE, MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT AND COMPONENTS, INCLUDING THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED FOR SEISMIC FORCES IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7-16.

B. EXTERIOR EQUIPMENT (INCLUDING ROOF CURBS, RAILS, SUPPORTS) EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH CHAPTER 26 TO 29 OF ASCE 7-16.

C. WHERE DESIGN FOR SEISMIC AND WIND LOADS IS REQUIRED, THE MORE DEMANDING FORCE MUST BE USED.

D. REFERENCE THE STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY, WIND SPEEDS, ETC.

E. USE THE TABLE BELOW TO DETERMINE SEISMIC RESTRAINT REQUIREMENTS FOR EACH COMPONENT.

F. FOR ALL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL REGISTERED IN THE STATE THE JOB IS LOCATED. SUBMITTALS MUST INCLUDE STAMPED AND SIGNED DRAWINGS AND CALCULATIONS.

G. WHERE SEISMIC RESTRAINT IS REQUIRED, HOUSEKEEPING PADS NEEDED FOR THE INSTALLATION OF EQUIPMENT UNDER THIS CONTRACT MUST BE DESIGNED BY THE SEISMIC ENGINEER. DO NOT POUR ANY HOUSEKEEPING PADS PRIOR TO THE RECEIPT OF THE APPROVED SEISMIC SUBMITTAL.

H. SEISMIC RESTRAINTS FOR DUCTWORK, PIPING, CONDUIT, CABLE TRAYS AND BUS DUCT MUST BE SHOWN ON LAYOUT DRAWINGS SHOWING SPECIFIC RESTRAINT LOCATIONS ALONG WITH ACCOMPANYING DETAILS AND CALCULATIONS.

MECHANICAL COMPONENT IMPORTANCE FACTOR (Ip) DESIGNATION

Ip = 1.0	Ip = 1.5
	• ALL HVAC COMPONENTS

SEISMIC DESIGN CATEGORIES D,E,F

		COMPONENT IMPORTANCE FACTOR (Ip)			
		1.0		1.5	
COMPONENT IDENTIFICATION		SEISMIC RESTRAINT REQUIREMENT	NOTES	SEISMIC RESTRAINT REQUIREMENT	NOTES
ROOF MOUNTED		RESTRAIN ALL	1	RESTRAIN ALL	-
FLOOR MOUNTED		RESTRAIN ALL	1, 2	RESTRAIN ALL	-
WALL MOUNTED		RESTRAIN ALL	1, 2	RESTRAIN ALL	-
COMPONENT SUPPORTS		RESTRAIN ALL	1	RESTRAIN ALL	-
SUSPENDED EQUIPMENT	INLINE W/ DUCT	RESTRAIN IF >75 LBS PROVIDE FLEX. CONN.	3	RESTRAIN IF >75 LBS PROVIDE FLEX. CONN.	3
	NOT INLINE W/ DUCT/PIPE	RESTRAIN ALL	1	RESTRAIN ALL	-
SUSPENDED DUCTILE PIPING (STEEL, ALUMINUM, COPPER, ETC.)		>3"	4	>1"	4
SUSPENDED NON-DUCTILE PIPING (CAST IRON, PLASTIC, CERAMIC)		RESTRAIN ALL	4	RESTRAIN ALL	4
SUSPENDED PIPE ON TRAPEZE		RESTRAIN IF ANY PIPE ON TRAPEZE > 3" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE > 10 LBS/FT	4	RESTRAIN IF ANY PIPE ON TRAPEZE > 1" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE > 10 LBS/FT	4
DUCTWORK		6 SQ.FT. AND LARGER AND ≥ 17 LBS/FT	4,5	6 SQ.FT. AND LARGER AND ≥ 17 LBS/FT	4,5
MULTIPLE DUCTS ON TRAPEZE		RESTRAIN IF TOTAL WEIGHT OF DUCTS ON TRAPEZE > 10 LBS/FT	4,5	RESTRAIN IF TOTAL WEIGHT OF DUCTS ON TRAPEZE > 10 LBS/FT	4,3
COMPONENT CERTIFICATION		NOT REQUIRED	-	REQUIRED	6

NOTES:

1. EQUIPMENT 20 LBS. OR LESS IS EXEMPT IF THE COMPONENT IS POSITIVELY ATTACHED TO THE STRUCTURE AND FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
2. RESTRAINTS ARE NOT REQUIRED IF THE COMPONENT WEIGHS 400 LBS. OR LESS, IS MOUNTED WITH THE CENTER OF MASS LOCATED AT 4 FT. OR LESS ABOVE A FLOOR, IS POSITIVELY ATTACHED TO THE STRUCTURE AND HAS FLEXIBLE CONNECTIONS BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
3. FLEXIBLE CONNECTIONS REQUIRED FOR PIPE CONNECTIONS ONLY.
4. RESTRAINT IS NOT REQUIRED IF THE PIPING / DUCTWORK IS SUPPORTED BY HANGERS AND EACH HANGER IN THE PIPING RUN IS 12 IN. OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE SUPPORTING STRUCTURE. WHERE PIPES ARE SUPPORTED ON A TRAPEZE, THE TRAPEZE SHALL BE SUPPORTED BY HANGERS HAVING A LENGTH OF 12 IN. OR LESS. WHERE ROD HANGERS ARE USED, THEY SHALL BE EQUIPPED WITH SWIVELS, EYE NUTS OR OTHER DEVICES TO PREVENT BENDING IN THE ROD.
5. ALL DUCTWORK , REGARDLESS OF SIZE, DESIGNED TO CARRY TOXIC, HIGHLY TOXIC, OR EXPLOSIVE GASES OR USED FOR SMOKE CONTROL MUST BE RESTRAINED.
6. COMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT TIME OF SUBMITTAL FOR REVIEW BY ENGINEER OF RECORD.

MECHANICAL CODES & STANDARDS (WITH ALL SOUTH CAROLINA MODIFICATIONS)

CODE	DESCRIPTION
NFPA 99 (2021)	HEALTH CARE FACILITIES CODE
SMACNA (2020)	HVAC DUCT CONSTRUCTION STANDARDS MANUAL, FOURTH EDITION
IBC (2021)	INTERNATIONAL BUILDING CODE
IECC (2009)	INTERNATIONAL ENERGY CONSERVATION CODE
IMC (2021)	INTERNATIONAL MECHANICAL CODE
NFPA 90A (2021)	STANDARD FOR THE INSTALLATION AIR-CONDITIONING & VENTILATING SYSTEMS
DPH 61-91 (2021)	STANDARDS FOR LICENSING AMBULATORY SURGICAL FACILITIES
ASHRAE 170 (2021)	VENTILATION OF HEALTHCARE FACILITIES CODE

FIRE RATED WALL LEGEND

- 1-HOUR FIRE BARRIER
- 2-HOUR FIRE BARRIER
- 1-HOUR SMOKE BARRIER

MECHANICAL ABBREVIATIONS

ABBR	DESCRIPTION
(E)	EXISTING
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
BHP	BRAKE HORSE POWER
BMS	BUILDING MANAGMENT SYSTEM
BOD	BASIS OF DESIGN
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CU	CONDENSING UNIT
DB	DECIBELS
DDC	DIRECT DIGITAL CONTROLS
DIA	DIAMETER
DRN	DRAIN
EA	EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
FD	FIRE DAMPER
FPM	FEET PER MINUTE
FRPM	FAN ROTATIONS PER MINUTE
FT	FEET
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HR	DOMESTIC HOT WATER RETURN
HWR	HEATING HOT WATER RETURN
HWS	HEATING HOT WATER SUPPLY
IN	INCHES
LAT	LEAVING AIR TEMPERATURE
MBH	THOUSANDS OF BTU'S PER HOUR
MC	MECHANICAL CONTRACTOR
MD	MANUAL DAMPER
NC	NOISE CRITERIA
OA	OUTSIDE AIR
OF	OVER FLOW
PD	PRESSURE DROP
R	REFRIGERANT
RA	RETURN AIR
RH	RELATIVE HUMIDITY
RM	REMOTE MONITOR
RPM	ROTATIONS PER MINUTE
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SF	SUPPLY FAN
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VFD	VARIABLE FREQUENCY DRIVE
W/	WITH
WMS	WIRE MESH SCREEN
°F	DEGREES FAHRENHEIT

HVAC SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
X Y	AIR TERMINAL TAG, X=TYPE MARK, Y=CFM	X"x Y"	DUCTWORK (X" = WIDTH, Y" = HEIGHT)
	AIR TERMINAL DIFFUSER (CEILING MOUNTED)		PREINSULATED FLEXIBLE DUCT
	AIR TERMINAL RETURN GRILLE (CEILING MOUNTED)		TURNING VANES
	AIR TERMINAL EXHAUST GRILLE (CEILING MOUNTED)		CONDENSING UNIT
	SIDEWALL REGISTER / GRILLE		ROOFTOP UNIT
T	THERMOSTAT		SINGLE DUCT AIR TERMINAL UNIT
H	HUMIDISTAT		CABLE OPERATED DAMPER
SD	DUCT MOUNTED SMOKE DETECTOR (BY E.C.)		FLEXIBLE DUCT CONNECTION
	EQUIPMENT CLEARANCE		CONNECTION TO EXISTING SYSTEM
FD	FIRE DAMPER		DEMOLITION EXTENT
	MANUAL DAMPER	M	MOTORIZED DAMPER
T	THERMOSTAT (DUCT MOUNTED)	H	HUMIDISTAT (DUCT MOUNTED)
P	ROOM PRESSURE MONITOR		

HVAC LINE TYPE LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	EXISTING COMPONENT		COMPONENT TO BE DEMOLISHED
	NEW COMPONENT		

HVAC SYSTEM TYPE LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SUPPLY AIR		HEATING HOT WATER SUPPLY
	RETURN AIR		HEATING HOT WATER RETURN
	EXHAUST AIR		

GENERAL MECHANICAL NOTES

1. THE DRAWINGS SHOW THE GENERAL ARRANGEMENT AND LOCATION OF EQUIPMENT, DUCTWORK, PIPING, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE MECHANICAL INSTALLATION W/ THE STRUCTURE AND OTHER TRADES AND SHALL PROVIDE ADDITIONAL OFFSETS AND FITTINGS AS NECESSARY.
2. COORDINATE WORK WITH AUTHORITY HAVING JURISDICTION AND OBTAIN ALL PERMITS AND INSPECTIONS.
3. PROVIDE OWNER WITH CERTIFICATES OF FINAL INSPECTION AND ACCEPTANCE FROM AUTHORITY HAVING JURISDICTION.
4. THE HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS SHALL COMPLY WITH THE THE CODES LISTED ON THIS SHEET AS WELL AS ALL LOCAL CODE OFFICIAL REQUIREMENTS. IN THE EVENT OF A CONFLICT BETWEEN CODES, THE MOST STRINGENT SHALL ALWAYS GOVERN.
5. DUCT DIMENSIONS ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
6. THE CONTRACTOR SHALL CHECK AND VERIFY ALL CLEARANCES PRIOR TO FABRICATION OR INSTALLATION OF EQUIPMENT, DUCTWORK, AND PIPING SYSTEMS. WHERE CONDITIONS REQUIRE A CHANGE IN DUCT OR PIPE ROUTING, NOTIFY THE ARCHITECT FOR AN ACCEPTABLE ALTERNATIVE METHOD. AVOID ROUTING DUCTWORK DIRECTLY OVER LIGHT FIXTURES, DIFFUSERS, AND OTHER CEILING MTD. DEVICES. LOCATE ALL MECHANICAL EQUIPMENT SO THAT FILTERS AND COMPONENTS REQUIRING ACCESS (SERVICE AND MAINTENANCE) ARE FULLY ACCESSIBLE.
7. PROVIDE CURVED RADIUS ELBOW AT FIRST SUPPLY & RETURN FITTING FOR ALL HVAC UNITS. PROVIDE TURNING VANES IN ALL 90 DEGREE ELBOWS IN ALL RECTANGULAR SUPPLY/RETURN/EXHAUST DUCT SYSTEMS. ANY OFFSETS REQUIRED IN DUCT SYSTEMS SHALL BE INSTALLED PER SMACNA 2020 4TH EDITION MANUAL . SHARP ANGLED TRANSITIONS OR OFFSETS 'WILL NOT BE ALLOWED'. PROVIDE DUCT ACCESS DOORS AS REQUIRED.
8. INSTALL ALL DUCT MOUNTED DEVICES (DAMPERS, ACCESS DOORS, ETC.) AND PIPING SPECIALTIES IN EASILY ACCESSIBLE LOCATIONS. ADVISE THE ARCHITECT IN ADVANCE OF INSTALLATION IF ACCESS WILL BE HINDERED SO AN ALTERNATE LOCATION CAN BE SELECTED.
9. ALL DUCT TAKE-OFFS SHALL BE INSTALLED AS SHOWN BY DETAILS ON THE PLANS WITH A MANUAL BALANCING DAMPER AT EVERY TAKE-OFF. WHERE DUCT RUN-OUT SIZE IS NOT SHOWN PROVIDE DUCT SAME SIZE AS GRILLE NECK SIZE. PRE-INSULATED FLEXIBLE DUCT MAY BE USED FOR FINAL CONNECTION TO SUPPLY GRILLES (MAX. LENGTH 5').
10. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH PRESCRIBED CLEARANCES FOR SERVICE AND MAINTENANCE. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IF RECOMMENDED CLEARANCES ARE NOT POSSIBLE BEFORE INSTALLING EQUIPMENT.
11. ALL ROTATING MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH VIBRATION ISOLATION. PROVIDE FLEXIBLE NEOPRENE DUCT CONNECTORS BETWEEN DUCTWORK AND ISOLATED MECHANICAL EQUIPMENT.
12. THE CONTRACTOR SHALL FIRESTOP ALL PENETRATIONS OF FIRE RATED WALLS/FLOORS/CEILINGS BY DUCTWORK PIPING, ETC., WITH U.L. LISTED FIRE STOPPING MATERIAL TO MAINTAIN FIRE RATING OF THE BARRIER.
13. SEISMIC PROTECTION OF EQUIPMENT, DUCTWORK, PIPING AND UTILITIES SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 16 OF THE INTERNATIONAL BUILDING CODE, 2021 EDITION. ALL SEISMIC RESTRAINT AND BRACING SHALL BE SUBSTANTIATED BY MANUFACTURER'S SUBMITTALS PER THE SPECIFICATIONS. FOR ADDITIONAL INFORMATION, SEE 'MECHANICAL SYSTEMS SEISMIC AND WIND REQUIREMENTS' ON THIS SHEET. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF SEISMIC BRACING DEVICES WITH THE OWNER'S SEISMIC SPECIAL INSPECTOR. PROVIDE A MINIMUM OF SEVEN DAYS ADVANCE NOTICE OF INSTALLATION.
14. BALANCE ALL AIR DISTRIBUTION DEVICES, EXHAUST FANS, AND OUTSIDE AIR QUANTITIES AS SCHEDULED OR SHOWN ON THE DRAWINGS. PROVIDE MARKERS AT ALL DAMPER LOCATIONS SHOWING FULL OPEN/CLOSED POSITIONS AND DAMPER SETTING FOR REQUIRED AIRFLOW. PROVIDE FINAL TEST AND BALANCE REPORT ALONG W/ SCHEMATIC DRAWINGS SHOWING DIFFUSER LOCATION W/ DESIGN AND ACTUAL CFM. THE DIFFUSER TAGS ON THE DRAWINGS SHALL CORRESPOND TO THE DIFFUSER TAGS ON THE REPORT. THIS REPORT SHALL BE SUBMITTED BEFORE THE FINAL INSPECTION IS PERFORMED. SEE SPECIFICATIONS FOR FURTHER INFORMATION.
15. ALL CONTROL WIRING, CONDUIT AND CONTROLS ACCESSORIES NECESSARY TO IMPLEMENT THE OUTLINED SEQUENCES OF OPERATION SHALL BE PROVIDED BY THE CONTROLS CONTRACTOR.
16. WIND LOAD PROTECTION OF ROOF MOUNTED EQUIPMENT AND DUCTWORK SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 16 OF THE INTERNATIONAL BUILDING CODE. ALL WIND LOAD RESTRAINT AND BRACING SHALL BE SUBSTANTIATED BY MANUFACTURER'S SUBMITTALS PER THE SPECIFICATIONS.
17. ALL EXPOSED PIPING AND DUCTWORK SHALL BE PAINTED. COORDINATE W/ ARCHITECTURAL PLANS/SPECIFICATIONS FOR EXPOSED LOCATIONS AND PAINTING REQUIREMENTS.
18. SEE ARCHITECTURAL DOCUMENTS FOR ROOF PENETRATION AND FLASHING REQUIREMENTS.
19. WHERE "APPROXIMATELY" IS USED TO DEFINE INSTALLATION LOCATIONS, CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO VERIFY THERE ARE NO CONFLICTS PRIOR TO INSTALLATION AT DIMENSION LISTED.

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GRANDE DUNES A.S.C.
RENOVATION - PHASE III
Myrtle Beach, South Carolina
for: HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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REVISIONS:

TITLE:

MECHANICAL NOTES & LEGENDS

SHEET:

M001

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Mt. Pleasant, SC 29464
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ROOFTOP UNIT SCHEDULE (ASC)

TAG	BUILDING SERVED	LOCATION	AREA SERVED	SUPPLY FAN DATA					DX COOLING COIL						PRE-FILTER EFFICIENCY	FINAL FILTER EFFICIENCY	SEISMIC IP	BASIS OF DESIGN	MODEL
				NO. FANS	ESP (IN WC)	HP (PER FAN)	NOMINAL AIRFLOW (CFM)	MINIMUM OA (CFM)	TOTAL (MBH)	SENSIBLE CAPACITY (MBH)	EAT DB °F	EAT WB °F	LAT DB °F	LAT WB °F					
RTU-ASC	ASC	2ND FLOOR ROOF	ASC	2	2.50	2 @ 5	8,000	1,750	411.52	266.17	80	67.0	52.6	50.8	MERV 8	MERV 14	1.5	TRANE	RX0400041**BA3D1C000000

NOTES:
1. PROVIDE UNITS WITH SINGLE-POINT POWER CONNECTION KIT.
2. PROVIDE UNITS WITH SEISMIC/WIND RATED ROOF CURBS.
3. PROVIDE UNITS WITH VARIABLE SPEED FANS.
4. PROVIDE UNIT WITH 0-100% DRY-BULB ECONOMIZER WITH POWERED EXHAUST.
5. PROVIDE WITH FULLY MODULATING OUTSIDE AIR DAMPER.
6. EC SHALL PROVIDE ELECTRICAL DISCONNECT SWITCH.
7. 480V/3PH. POWER. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL POWER INFORMATION.
8. PROVIDE 22" ROOF CURB TO ALLOW ROOF INSULATION INSTALLATION. COORDINATE CURB WITH ROOFING PLANS.

AIR DISTRIBUTION SCHEDULE

TAG	MOUNTING TYPE	NECK SIZE	FACE SIZE	DESCRIPTION	BASIS OF DESIGN	MODEL
Supply Air						
A	LAY-IN, T-BAR	6"	24" x 24"	PLAQUE FACE SUPPLY DIFFUSER	PRICE	ASPD
B	LAY-IN, T-BAR	8"	24" x 24"	PLAQUE FACE SUPPLY DIFFUSER	PRICE	ASPD
B2	LAY-IN, T-BAR	8"	24" x 24"	LAMINAR FLOW DIFFUSER	PRICE	LFD
C	LAY-IN, T-BAR	10"	24" x 24"	PLAQUE FACE SUPPLY DIFFUSER	PRICE	ASPD
E	WALL MOUNTED	16" x 10"	16" x 10"	SIDEWALL SUPPLY GRILLE	PRICE	510
ICS	CEILING	20" x 7"	N/A	INTEGRATED OR CEILING SYSTEM W/ INTEGRAL LED LIGHTING	PRICE	Ultrasuite
Return Air						
21	LAY-IN, T-BAR	22" x 22"	24" x 24"	PERFORATED FACE RETURN GRILLE	PRICE	10A
22	WALL MOUNTED	16" x 16"	16" x 16"	SIDEWALL RETURN GRILLE	PRICE	730
Exhaust Air						
31	LAY-IN, T-BAR	22" x 22"	24" x 24"	PERFORATED FACE EXHAUST GRILLE	PRICE	10A

NOTES:
1. COORDINATE EXACT LOCATION OF AIR DISTRIBUTION DEVICES AND CEILING TYPE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
2. ALL AIR DISTRIBUTION DEVICES SHALL BE ALUMINUM CONSTRUCTION AND SHALL HAVE BAKED ENAMEL WHITE FINISH UNLESS OTHERWISE NOTED.
3. ALL CEILING DIFFUSERS SHALL BE 4-WAY BLOW UNLESS OTHERWISE NOTED ON DRAWINGS.
4. RUNOUT SIZE SHALL MATCH DIFFUSER NECK SIZE.

SUPPLY AIR TERMINAL UNIT W/ ELECTRIC REHEAT SCHEDULE

TAG	INLET SIZE INCHES	COOLING MAX CFM	COOLING MIN CFM	MAX APD @ COOLING AIRFLOW INCHES WG	HEATING COIL				BASIS OF DESIGN	MODEL
					ADJUSTED HEATING AIRFLOW CFM	CAPACITY KW	EAT °F	MIN LAT °F		
VAV-1	8	430	430	0.25	430	6.0	52.5 °F	94.0 °F	PRICE	SDV
VAV-2	6	375	375	0.25	375	5.0	52.5 °F	94.0 °F	PRICE	SDV
VAV-3	6	250	250	0.25	250	3.5	52.5 °F	94.0 °F	PRICE	SDV
VAV-4	8	400	400	0.25	125	2.0	52.5 °F	94.0 °F	PRICE	SDV
VAV-5	12	1900	1900	0.25	1900	26.0	52.5 °F	94.0 °F	PRICE	SDV
VAV-6	12	1900	1900	0.25	1900	26.0	52.5 °F	94.0 °F	PRICE	SDV
VAV-7	12	1850	1850	0.25	1850	25.5	52.5 °F	94.0 °F	PRICE	SDV
VAV-8	8	400	400	0.25	400	5.5	52.5 °F	94.0 °F	PRICE	SDV

NOTES:
1 PROVIDE UNITS WITH 24V CONTROLS TRANSFORMER FROM FACTORY.
2. PROVIDE UNITS WITH SCR CONTROL FOR ELECTRIC HEATING.
3. 480V/3PH POWER. EC SHALL PROVIDE FUSED DISCONNECTS FOR TERMINAL UNITS WITH ELECTRIC HEAT.
4. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL POWER INFORMATION.

RETURN AIR TERMINAL UNIT SCHEDULE

TAG	INLET SIZE INCHES	RETURN AIR MAX CFM	MAX APD @ MAX AIRFLOW INCHES WG	BASIS OF DESIGN	MODEL
RAV-1	10	500	0.20	PRICE	RDV
RAV-2	10	1775	0.20	PRICE	RDV
RAV-3	10	400	0.20	PRICE	RDV
RAV-4	12	1900	0.20	PRICE	RDV
RAV-5	12	1900	0.20	PRICE	RDV

NOTES:
1. PROVIDE UNITS WITH 24V CONTROLS TRANSFORMER FROM FACTORY.
2. PROVIDE RETURN AIR TERMINAL UNITS WITH FACTORY-INSTALLED DISCONNECT.

FAN SCHEDULE

TAG	CAPACITY CFM	ESP INCHES WG	FRPM	MOTOR HP	MAXIMUM SOUND RATING DB	TYPE	SYSTEM SERVED	FAN CONTROL	BASIS OF DESIGN	MODEL
EF-SPD	1500	1.00	1683	0.5	70	ROOF UPBLAST	SPD	CONTINUOUS	GREENHECK	CUE-120-VG
(E) EF1-1	0	0.00	0	0	0	INLINE CENTRIFUGAL	GENERAL EXHAUST	EXISTING	EXISTING	EXISTING
(E) EF2-1	0	0.00	0	0	0	INLINE CENTRIFUGAL	GENERAL EXHAUST	EXISTING	EXISTING	EXISTING
(E) EF-MEDGAS	0	0.00	0	0	0	INLINE CENTRIFUGAL	MED GAS EXHAUST	EXISTING	EXISTING	EXISTING
EF-GEN	225	0.75	1434	0.25	55	ROOF DOWNBLAST	GENERAL EXHAUST	CONTINUOUS	GREENHECK	G-097-VG
EF-217	75	0.25	950	0.02	20	CEILING	TOILET EXHAUST	OCCUPANCY/LIGHT	GREENHECK	CSP-A110
EF-210	75	0.25	950	0.02	20	CEILING	TOILET EXHAUST	OCCUPANCY/LIGHT	GREENHECK	CSP-A110

NOTES:
1. PROVIDE NEW FANS WITH DIRECT DRIVE MOTOR WITH POTIENTIOMETER DIAL FOR BALANCING, OR EQUAL.
2. PROVIDE UNITS WITH INTEGRAL BACKDRAFT DAMPER AND BIRD SCREEN.
3. 120V/1PH POWER. EC SHALL PROVIDE ELECTRICAL DISCONNECT SWITCHES.
4. EXISTING EXHAUST FANS WITH BLANK PERFORMANCE DATA COULD NOT BE ACCESSED BY THE EOR DURING SITE VISITS . NOTIFY EOR WITH NAMEPLATE DATA.

DUCT MOUNTED HUMIDIFIER SCHEDULE

TAG	SERVICE	TYPE	CFM	ABSORP. DIST. (IN)	DMH EAT (°F) / %RH	DMH LAT (°F) / %RH	DUCT SIZE	CAPACITY (LBS/HR)	HEAT GAIN FROM ASSEMBLY (°F)	HEAT GAIN FROM STEAM (°F)	WEIGHT (LBS)	BASIS OF DESIGN	MODEL
DMH-1	RTU-ASC	CLEAN STEAM	8,000	24	55 / 72	55 / 91	30"x 18"	60.0	0.20	0.40	18	CONDAIR	SAM-e 36

NOTES:
1. ALL STEAM PIPING, DISPERSION TUBES AND HEADERS SHALL BE 304 STAINLESS STEEL.
2. DRAIN PIPING SHALL BE COPPER OR STAINLESS STEEL. PROVIDE DRAIN WITH 1" PREFORMED, MINERAL FIBER PIPE INSULATION.
3. PROVIDE STEAM PIPING WITH 1.5" PREFORMED, MINERAL FIBER PIPE INSULATION.
4. PIPING BETWEEN STEAM GENERATOR AND DUCT MOUNTED HUMIDIFIER SHALL BE NOT MORE THAN 50'-0" TOTAL EQUIVALENT FEET.
5. THIS SCHEDULE TO BE COMPLETED IN CONSTRUCTION DOCUMENTS.

STEAM GENERATOR SCHEDULE

TAG	SERVICE	TYPE	CAPACITY (LBS/HR)	WEIGHT (LBS)	BASIS OF DESIGN	MODEL
SG-1	DMH-1	ELECTRIC CLEAN STEAM	60	236	CONDAIR	EL-OC 075

NOTES:
1. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
2. PROVIDE UNIT WITH FILL CUP EXTENSION KIT.
3. THIS SCHEDULE TO BE COMPLETED IN CONSTRUCTION DOCUMENTS.

EXISTING SPLIT-SYSTEM AIR HANDLING UNIT SCHEDULE

TAG	SPLIT SYSTEM HEAT PUMP SCHEDULE												
	AIR CAPACITY CFM		NOMINAL FAN HP	ESP (IN WC)	AHRI COOLING						HEATING kW	FILTER	BASIS OF DESIGN	INDOOR MODEL
	TOTAL	O/A (MIN)			TOTAL MBH	SENS. MBH	ENTERING AIR		LEAVING AIR					
							DB °F	WB °F	DB °F	WB °F				
AHU-1	1100	150	1/3	0.75 in-wg	24	0	80 °F	67 °F	55 °F	55 °F	0.0	MERV 8	LENNOX	CBX25UH-024
AHU-2	1750	240	1/2	0.75 in-wg	42	0	80 °F	67 °F	55 °F	55 °F	2.5	MERV 8	LENNOX	CBX25UH-042

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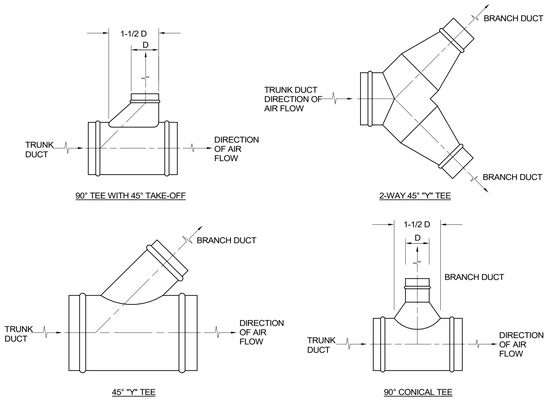
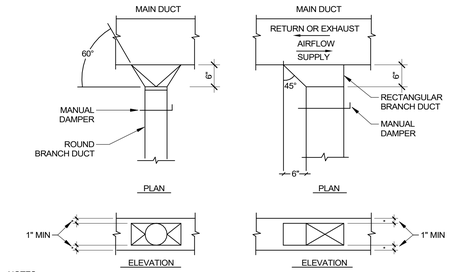
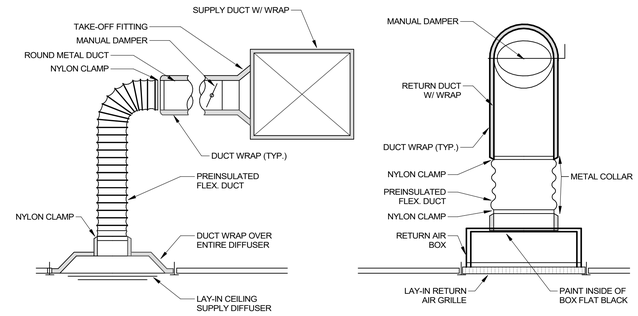


1 M003 ROUND DUCT BRANCH TAKE OFF DETAIL
NOT TO SCALE



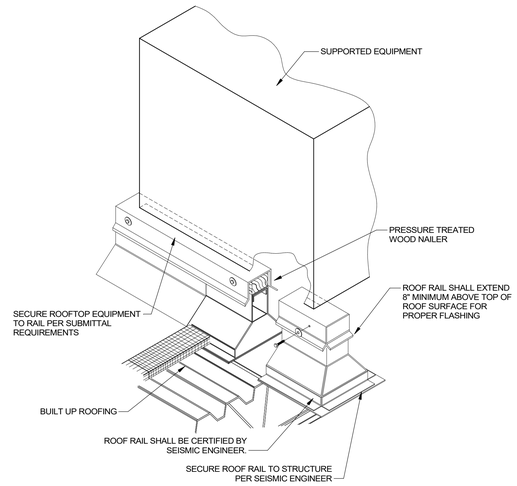
NOTES:
1. CONTRACTOR MAY SUBSTITUTE A MANUFACTURED FITTING FOR THE DETAILED TAKE-OFF ABOVE.
2. TAKE-OFFS IN MEDIUM PRESSURE DUCT SHALL HAVE AN OVERSIZED INTAKE.
3. SPIN-IN FITTINGS WITH INTEGRAL SCOOP AND DAMPER SHALL ONLY BE USED ON LOW PRESSURE DUCT.
4. FITTINGS SHALL BE SCREWED TO THE TRUNK DUCT AND SEALED WITH MASTIC. MASTIC TAPE IS NOT ACCEPTABLE, SEE SPECIFICATIONS.
5. IF VAV BOX IS LOCATED IN BRANCH DUCT, BALANCE DAMPER SHALL NOT BE INSTALLED IN TAKOFF FROM MAIN TRUNK DUCT.

2 M003 TYPICAL DUCT TAKE OFF INSTALLATION DETAIL
NOT TO SCALE



NOTES:
1. INSTALL NYLON CLAMPS ON INNER FLEX DUCT LINER AND OUTER JACKET. TAPE ENDS OF PREINSULATED FLEX. DUCT AT THE DIFFUSER AND THE BRANCH DUCT CONNECTION.
2. RETURN AIR BOX SHALL BE MINIMUM 12" HIGH. RETURN DUCT MAY TAP INTO THE SIDE OF THE BOX A MINIMUM OF 6" ABOVE GRILLE.
3. PROVIDE YOUNG REGULATOR REMOTE DAMPER CONTROLLER FOR EACH DIFFUSER AND GRILLE LOCATED IN AREAS WITH INACCESSIBLE CEILINGS. LOCATE CONTROLLER IN A CONCEALED, ACCESSIBLE LOCATION.

3 M003 TYPICAL DIFFUSER/GRILLE INSTALLATION DETAIL
NOT TO SCALE



4 M003 ROOF RAIL DETAIL
NOT TO SCALE

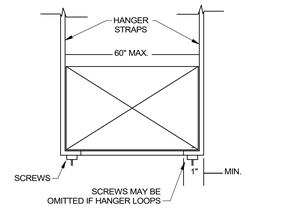
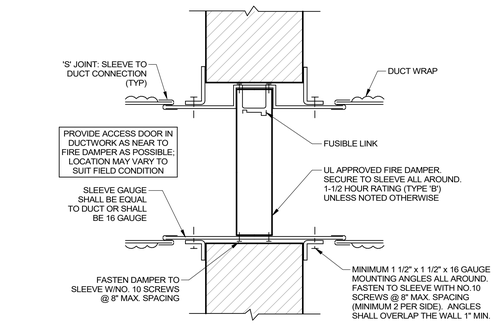


TABLE 4-1 RECTANGULAR DUCT HANGERS MINIMUM SIZE								
MAXIMUM HALF OF DUCT PERIMETER	PAIR AT 10 FT. SPACING		PAIR AT 8 FT. SPACING		PAIR AT 5 FT. SPACING		PAIR AT 4FT. SPACING	
	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD
P/2= 30"	1" X 22 GA.	10 GA. (.135")	1" X 22 GA.	10 GA. (.135")	1" X 22 GA.	12 GA. (.106")	1" X 22 GA.	12 GA. (.106")
P/2= 72"	1" X 18 GA.	3/8"	1" X 20 GA.	1/4"	1" X 22 GA.	1/4"	1" X 22 GA.	1/4"
P/2= 96"	1" X 16 GA.	3/8"	1" X 18 GA.	3/8"	1" X 20 GA.	3/8"	1" X 22 GA.	1/4"
P/2= 120"	1-1/2"X16GA.	1/2"	1" X 16 GA.	3/8"	1" X 18 GA.	3/8"	1" X 20 GA.	1/4"
P/2= 168"	1-1/2"X16GA.	1/2"	1-1/2"X16GA.	1/2"	1" X 16 GA.	3/8"	1" X 18 GA.	3/8"
P/2= 192"	NOT GIVEN	1/2"	1-1/2"X16GA.	1/2"	1" X 16 GA.	3/8"	1" X 16 GA.	3/8"
P/2=193" UP	SPECIAL ANALYSIS REQUIRED							

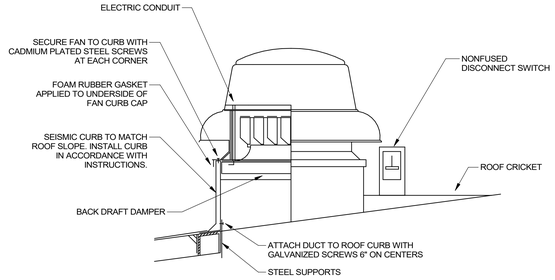
WHEN STRAPS ARE LAP JOINED USE THESE MINIMUM FASTENERS	SINGLE HANGER MAXIMUM ALLOWABLE LOAD	
	STRAP	WIRE OR ROD (DIA.)
1" X 18,20,22 GA. - TWO #10 OR ONE 1/4" BOLT 1" X 16 GA. - TWO 1/4" DIA. 1-1/2" X 16 GA. -TWO 3/8" DIA. PLACE FASTENERS IN SERIES, NOT SIDE BY SIDE.	1" X 22 GA. - 260 LBS. 1" X 20 GA. - 320 LBS. 1" X 18 GA. - 420 LBS. 1" X 16 GA. - 700 LBS. 1-1/2 " X 16 GA. - 1100 LBS.	1/4"-270 LBS. 3/8"-680 LBS. 1/2"-1250 LBS. 5/8"-2000 LBS. 3/4"-3000 LBS.

5 M003 SUPPORT DETAIL
NOT TO SCALE

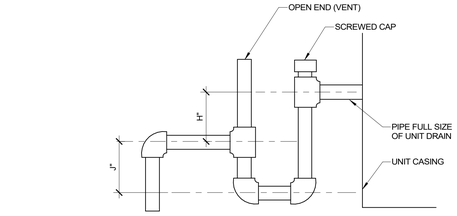


NOTES:
1. WALL OPENINGS SHALL BE 1/8" PER FOOT LARGER THAN THE OVERALL DAMPER/SLEEVE ASSEMBLY. MINIMUM OPENING SHALL BE AT LEAST 1/4" ON ALL SIDES.
2. ABOVE SHOWS TYPICAL REQUIREMENTS FOR THE INSTALLATION OF A FIRE DAMPER. MODIFY INSTALLATION TO MEET U.L. LISTED INSTALLATION INSTRUCTIONS PUBLISHED BY THE MANUFACTURER.

6 M003 FIRE DAMPER INSTALLATION DETAIL
NOT TO SCALE

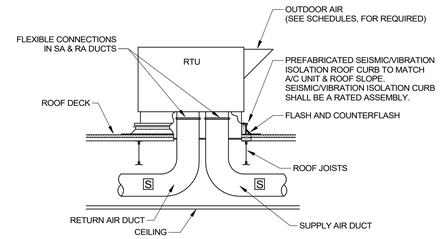


7 M003 ROOF EXHAUST FAN INSTALLATION DETAIL
NOT TO SCALE



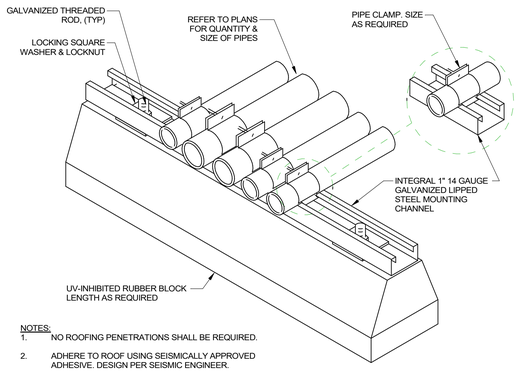
NOTES:
1. LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.
2. "RUNNING" TYPE TRAPS SHALL BE UNACCEPTABLE.
3. H = TOTAL STATIC FAN PRESSURE (CONFIRM TSP WITH EQUIPMENT PROVIDED).
4. J = H/2 (MINIMUM)

8 M003 CONDENSATE DRAIN TRAP INSTALLATION DETAIL
NOT TO SCALE



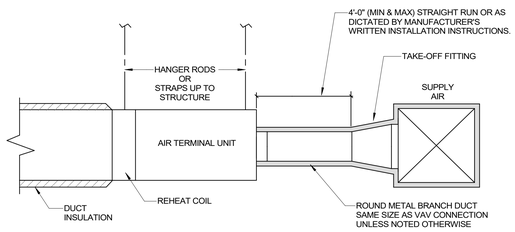
NOTES:
1. PROVIDE EQUIPMENT ROOF CURBS W/ INTEGRAL VIBRATION ISOLATION SPRINGS.
2. CONTRACTOR SHALL PROVIDE 16 OZ. ACOUSTIBLOK BETWEEN OPENING AND BOTTOM OF UNIT FOR SOUND REDUCTION.
3. PROVIDE AND INSTALL 1/2" THICK DUCT LINER IN THE FIRST 10 FEET FROM UNIT ON SUPPLY AND RETURN DUCT. LINER SHALL BE FLEXIBLE ELASTOMERIC.

9 M003 ROOF TOP UNIT INSTALLATION DETAIL
NOT TO SCALE



NOTES:
1. NO ROOFING PENETRATIONS SHALL BE REQUIRED.
2. ADHERE TO ROOF USING SEISMICALLY APPROVED ADHESIVE. DESIGN PER SEISMIC ENGINEER.

10 M003 ROOF PIPING SUPPORT DETAIL
NOT TO SCALE



NOTE:
1. COORDINATE LOCATION OF AIR TERMINAL UNIT WITH ALL TRADES TO ENSURE PROPER MAINTENANCE ACCESS.

11 M003 TYPICAL SUPPLY VAV INSTALLATION DETAIL
NOT TO SCALE

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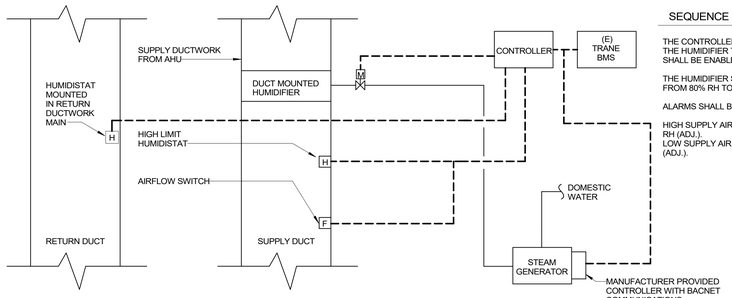


SEQUENCE OF OPERATION (HUMIDIFIER)

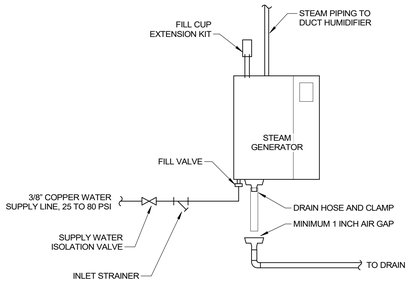
THE CONTROLLER SHALL MEASURE THE RETURN AIR HUMIDITY AND MODULATE THE HUMIDIFIER TO MAINTAIN A SETPOINT OF 40% RH (ADJ.). THE HUMIDIFIER SHALL BE ENABLED WHENEVER THE SUPPLY FAN STATUS IS ON.

THE HUMIDIFIER SHALL TURN OFF WHENEVER THE SUPPLY AIR HUMIDITY RISES FROM 80% RH TO 85% RH (ADJ.) OR ON LOSS OF SUPPLY FAN STATUS.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

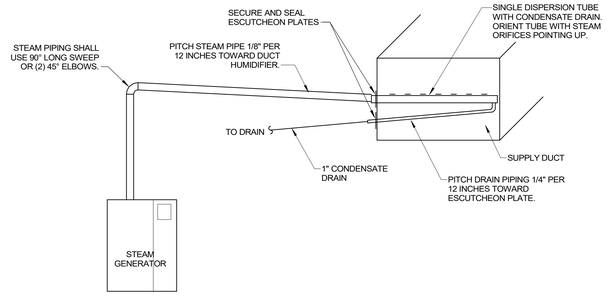
HIGH SUPPLY AIR HUMIDITY: IF THE SUPPLY AIR HUMIDITY IS GREATER THAN 80% RH (ADJ.).
LOW SUPPLY AIR HUMIDITY: IF THE SUPPLY AIR HUMIDITY IS LESS THAN 30% RH (ADJ.).

1 M004 HUMIDIFIER CONTROLS DETAIL
NOT TO SCALE



NOTES:
1. INSTALL PER MANUFACTURES WRITTEN INSTALLATION INSTRUCTIONS AND MAINTAIN REQUIRED CLEARANCES.
2. PROVIDE STEAM GENERATOR WITH FILL CUP EXTENSION.
3. MULTIPLE UNITS CAN BE INSTALLED IN SERIES.
4. OPEN DRAIN REQUIRED DIRECTLY BELOW STEAM GENERATOR.

2 M004 STEAM GENERATOR INSTALLATION DETAIL
NOT TO SCALE



NOTES:
1. INSTALL PER MANUFACTURES WRITTEN INSTALLATION INSTRUCTIONS.
2. INSTALLTION ALL PIPING FROM STEAM GENERATOR TO HUMIDIFIER SHALL BE STAINLESS STEEL AND CONFORM TO AISI 304 OR 316.
3. STEAM PIPING SHALL NOT EXCEED 50 EQUIVALENT FEET FROM THE STEAM GENERATOR TO THE DUCT HUMIDIFIER.
4. INSULATE STEAM PIPING AND CONDENSATE DRAIN PIPING WITH 1-1/2 INCH THICK TYPE 1 OR TYPE 2 MINERAL-FIBER PREFORMED PIPE INSULATION.

3 M004 HUMIDIFIER INSTALLATION DETAIL
NOT TO SCALE

4 M004 PLENUM RETURN AIR CANOPY DETAIL
NOT TO SCALE

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SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
DWG, INC. CONSULTING ENGINEERS No.C03649

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No. 31117
1/6/2025
JILLIAN MARIE MEYER

GRANDE DUNES A.S.C.
RENOVATION - PHASE III
Myrtle Beach, South Carolina
for: HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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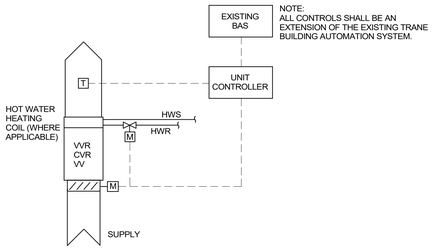
REVISIONS:

TITLE:

MECHANICAL DETAILS

SHEET:

M004



1 M005 EXISTING VAV BOX CONTROL DIAGRAM - HOT WATER
NOT TO SCALE

SEQUENCE OF OPERATION:

AIR TERMINAL UNITS

A. GENERAL:

1. MINIMUM AIRFLOW PERCENTAGES FOR VARIABLE VOLUME AIR TERMINAL UNITS:
   A. AS INDICATED ON TERMINAL UNIT SCHEDULE.

2. OCCUPIED/UNOCCUPIED MODE DETERMINATION:
   A. OCCUPIED/UNOCCUPIED MODE FOR EACH AIR TERMINAL UNIT SHALL BE INDIVIDUALLY PROGRAMMABLE BY OWNER VIA TIME SCHEDULE AT THE BAS. THIS INCLUDES SPACES REQUIRING 24 HR OPERATION FOR OCCUPIED MODE, AS SPACE MAY BE TEMPORARILY PLACED OUT OF SERVICE BY OWNER.

3. AIR SYSTEM BALANCING:
   A. EACH AIR HANDLING SYSTEM SHALL HAVE ABILITY TO SET AIR TERMINAL OPERATION TO "AUTOMATIC" OR "DESIGN" OPERATION FOR BALANCING PURPOSES. DESIGN CFM IS SCHEDULED FOR EACH TERMINAL UNIT. THIS OPERATION SHALL BE ACCOMPLISHED BY A SINGLE, PASSWORD-PROTECTED COMMAND THROUGH THE BAS AT THE OPERATOR WORKSTATION.

   B. DURING THE "AUTOMATIC" MODE, ALL AIR TERMINAL UNITS SHALL FUNCTION AS NORMAL.

   C. DURING THE "DESIGN" MODE, ALL AIR TERMINAL UNITS SHALL OPERATE AT THEIR MAXIMUM AIRFLOW SETTING TO SIMULATE FULL-LOAD DESIGN CONDITIONS.

4. PROVIDE EACH TERMINAL UNIT WITH DISCHARGE AIR TEMPERATURE SENSOR FOR MONITORING AND TRENDING PURPOSES AT THE BMCS.

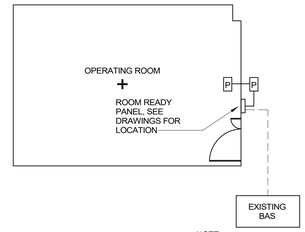
B. SINGLE DUCT VARIABLE VOLUME WITH REHEAT (VAV-#), DIRECT DIGITAL CONTROLS:

1. OCCUPIED COOLING MODE:
   A. ROOM SENSOR, THROUGH DDC CONTROLLER, SHALL MODULATE DAMPER BETWEEN MAXIMUM AND MINIMUM AIRFLOW SETTINGS AS REQUIRED TO MAINTAIN SET POINT. MINIMUM AIRFLOW PERCENTAGE SHALL BE AS INDICATED ON AIR TERMINAL UNIT EQUIPMENT SCHEDULE.

2. OCCUPIED HEATING MODE (UNITS WITH REHEAT COIL):
   A. WHEN AIR TERMINAL UNIT IS AT ITS MINIMUM AIRFLOW SETTING AS SCHEDULED, MODULATE HOT WATER CONTROL VALVE FOR REHEAT COIL AS REQUIRED TO MAINTAIN ROOM SENSOR SET POINT OF 72°F(ADJ.) AND UNIFORM SPACE TEMPERATURE THROUGHOUT THE ROOM.

3. UNOCCUPIED COOLING MODE:
   A. WHEN AIR TERMINAL UNIT IS AT ITS MINIMUM AIRFLOW SETTING AS SCHEDULED, MODULATE HOT WATER CONTROL VALVE FOR REHEAT COIL AS REQUIRED TO MAINTAIN ROOM SENSOR SET POINT OF 77°F(ADJ.). ROOM SET POINT ADJUSTMENT ON SENSOR SHALL BE INACTIVE.

4. UNOCCUPIED HEATING MODE:
   A. WHEN AIR TERMINAL UNIT IS AT ITS UNOCCUPIED MODE MINIMUM AIRFLOW SETTING, MODULATE HOT WATER CONTROL VALVE(S) FOR REHEAT COIL TO MAINTAIN MINIMUM ROOM TEMPERATURE OF 65°F(ADJ.). ROOM SET POINT ADJUSTMENT ON SENSOR SHALL BE INACTIVE.



SEQUENCE OF OPERATION:

OPERATING ROOM MONITORING:

A. WHEN THE PRESSURE SETPOINT, TEMPERATURE RANGE, HUMIDITY RANGE, AND MINIMUM AIR FLOW REQUIREMENTS OF THE OPERATING ROOM IS MET, A GREEN LIGHT SHALL BE SHOWN ON THE PANEL. WHEN ANY ITEM IS OUTSIDE OF ACCEPTABLE RANGE A RED LIGHT SHALL BE SHOWN AND AN ALARM SHALL BE SENT TO THE CONTROL SYSTEM.

B. SUPPLY AIR CONTROL:

1. A CONSTANT VOLUME OF SUPPLY AIR SHALL BE DELIVERED TO THE SPACE VIA TERMINAL UNIT).

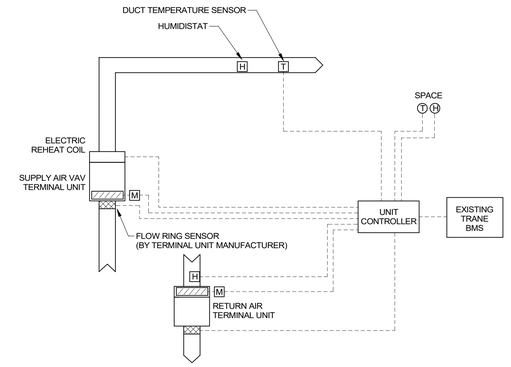
C. RETURN AIR CONTROL:

1. A CONSTANT VOLUME OF RETURN AIR SHALL BE REMOVED FROM THE SPACE AS NOTED ON THE DRAWINGS TO MAINTAIN THE ROOM DIFFERENTIAL PRESSURE SETPOINT AS NOTED BELOW.

D. CONTROL SET POINTS

1. WHEN IN POSTIVE PRESSURE MODE
   A. DOORS MUST REMAIN CLOSE
   B. OPERATING ROOM SHALL MAINTAIN POSITIVE PRESSURE WITH RESPECT TO THE ADJACENT CORRIDOR
   C. SETPOING +0.01 IN. W.G.

2 M005 OPERATING ROOM MONITORING DETAIL
NOT TO SCALE



SEQUENCE OF OPERATION - VARIABLE AIR VOLUME TERMINAL UNIT (OPERATING/PROCEDURE ROOM)

A DEDICATED UNIT MOUNTED CONTROLLER WILL CONTROL EACH UNIT.

OCCUPIED MODE:

ON A FALL IN SPACE TEMPERATURE TO BELOW SPACE HEATING SETPOINT (ADJ.), THE DUCT REHEAT COIL SHALL BE ENABLED AND SHALL MODULATE AS REQUIRED TO MAINTAIN THE SPACE HEATING SETPOINT. ON A RISE IN SPACE TEMPERATURE, THE DUCT HEATER SHALL BE DISABLED.

THE CONTROLLER SHALL MEASURE THE RETURN AIR HUMIDITY AND MODULATE THE HUMIDIFIER TO MAINTAIN A SETPOINT OF 40% RH (ADJ.). THE HUMIDIFIER SHALL BE ENABLED WHENEVER RTU-5 SUPPLY FAN STATUS IS ON.

THE DUCT HUMIDIFIER SHALL TURN OFF WHENEVER THE SUPPLY AIR HUMIDITY RISES FROM 80% RH TO 85% RH (ADJ.) OR ON LOSS OF SUPPLY FAN STATUS.

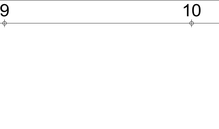
ALARMS SHALL BE PROVIDED AS FOLLOWS:

HIGH SUPPLY AIR HUMIDITY: IF THE SUPPLY AIR HUMIDITY IS GREATER THAN 80% RH (ADJ.).
LOW SUPPLY AIR HUMIDITY: IF THE SUPPLY AIR HUMIDITY IS LESS THAN 30% RH (ADJ.).

RETURN TERMINAL VALVE SHALL MODULATE IN UNISON WITH THE ASSOCIATED SUPPLY TERMINAL BOX TO MAINTAIN A VOLUMETRIC AIRFLOW OFFSET TO MAINTAIN A POSITIVE PRESSURE (+0.01" WG) IN THE SPACE.

NOTE:
1. ALL CONTROLS SHALL BE THE SAME MANUFACTURER AS THE EXISTING BMS. CONTROLS SHALL BE TRANE, OR APPROVED EQUAL.
2. UNIT CONTROLLERS SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION. LOCATIONS SHALL BE FIELD REVIEWED WITH ENGINEER AND OWNER PRIOR TO INSTALLATION.

3 M005 NEW TERMINAL UNIT CONTROL DETAIL (OPERATING/PROCEDURE ROOM)
NOT TO SCALE



SEQUENCE OF OPERATION

RUN CONDITIONS
THE FAN SHALL RUN CONTINUOUSLY

FAN STATUS:
THE CONTROLLER SHALL MONITOR THE FAN STATUS. VFD SHALL BE USED FOR BALANCING AND LOCKED INTO CONSTANT SPEED.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.

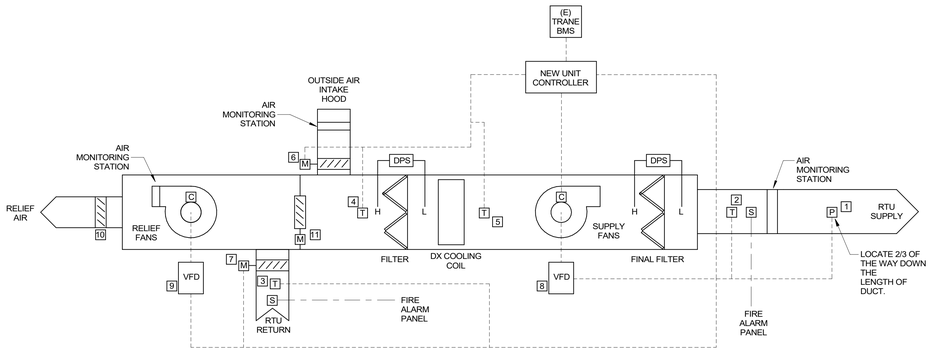
EXHAUST FAN POINTS LIST

1	START/STOP, FAN STATUS, FAN SPEED

LEGEND

C	CURRENT SWITCH
BMS	BUILDING MANAGEMENT SYSTEM
VFD	VARIABLE FREQUENCY DRIVE

4 M005 EXHAUST FAN CONTROL DIAGRAM
NOT TO SCALE



RTU-5 POINTS LIST

1	STATIC PRESSURE SENSOR
2	SUPPLY AIR TEMPERATURE
3	RETURN AIR TEMPERATURE
4	MIXED AIR TEMPERRATURE
5	COIL DISCHARGE TEMPERATURE
6	OUTSIDE AIR DAMPER POSITION (OA-D)
7	RETURN AIR DAMPER POSITION (RT-D)
8	RTU START/STOP, SUPPLY FAN STATUS
9	RELIEF FAN START/STOP STATUS
10	RELIEF AIR DAMPER (RA-D)
11	MIXED AIR DAMPER (MA-D)

LEGEND

T	TEMPERATURE SENSOR
P	PRESSURE SENSOR
C	CURRENT SWITCH
M	MOTORIZED ACTUATOR
S	SMOKE DETECTOR
BMS	BUILDING MANAGEMENT SYSTEM
VFD	VARIABLE FREQUENCY DRIVE
DPS	DIFFERENTIAL PRESSURE SENSOR

5 M005 RTU CONTROLS SCHEMATIC
NOT TO SCALE

SEQUENCE OF OPERATION

DX PACKAGED ROOFTOP UNIT
ALL CONTROLS SHALL BE THE SAME MANUFACTURER AS THE EXISTING BMS. ALL NEW CONTROLS SHALL BE INTEGRATED INTO THE EXISTING TRANE BMS.

BUILDING AUTOMATION SYSTEM INTERFACE:
THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE CONTROLLER OCCUPIED BYPASS, PRE-COOL, AND OCCUPIED / UNOCCUPIED MODES. IF A BAS IS NOT PRESENT, OR COMMUNICATION IS LOST WITH THE BAS THE CONTROLLER SHALL OPERATE USING DEFAULT MODES AND SETPOINTS.

FAN CONTROL (GENERAL) :
THE SUPPLY FAN SHALL BE CONTROLLED THROUGH A HAND-OFF-AUTO (H-O-A) SWITCH INTEGRAL WITH THE VARIABLE FREQUENCY DRIVE (VFD) ASSOCIATED WITH THE FAN. WHEN THE SWITCH IS IN THE "AUTO" POSITION, THE FAN SHALL BE STARTED AND STOPPED AND FAN SPEED SHALL BE CONTROLLED THROUGH THE BUILDING MANAGEMENT SYSTEM (BMS). WHEN THE SWITCH IS IN THE "HAND" POSITION, THE FAN SHALL RUN AND THE FAN SPEED SHALL BE CONTROLLED THROUGH A MANUAL SPEED ADJUSTMENT INTEGRAL TO THE VFD. WHEN THE SWITCH IS IN THE "OFF" POSITION, THE FAN AND DRIVE SHALL REMAIN OFF. WHEN THE STARTING CIRCUIT IS ACTIVATED BY THE BMS OR BY PLACING THE SELECTOR SWITCH IN "HAND" POSITION, THE VFD SHALL START UNLOADED AND SHALL RAMP UP TO SPEED AS PROGRAMMED INTO THE VFD'S SAFETY CIRCUIT.

SUPPLY FAN DUCT STATIC PRESSURE CONTROL :
THE SUPPLY FAN VFD SHALL BE MODULATED TO MAINTAIN THE SUPPLY DUCT STATIC PRESSURE SETPOINT AS SENSED BY DUCT STATIC PRESSURE SENSOR LOCATED DOWNSTREAM IN THE SUPPLY MAIN. UPON STARTUP, THE VFD SHALL BE IN THE "UNLOADED" POSITION. THE VFD SPEED SHALL BE ADJUSTED THROUGH A CONTROL LOOP IN RESPONSE TO THE DUCT STATIC PRESSURE SETPOINT. AS THE DUCT STATIC PRESSURE RISES ABOVE SETPOINT, THE FAN SPEED SHALL BE REDUCED THROUGH THE VFD SPEED SIGNAL CONTROLLER DOWN TO THE PROGRAMMED MINIMUM SPEED (ADJ.). AS THE STATIC PRESSURE DECREASES BELOW THE ACTIVE SETPOINT, THE FAN SPEED SHALL BE INCREASED.

RELIEF FAN CONTROL:
DURING ECONOMIZING MODE ONLY, THE EXHAUST FAN VFD SHALL MODULATE IN UNISON WITH THE SUPPLY FAN VFD. TOTAL EXHAUST FAN CFM SETPOINT SHALL BE SUPPLY AIRFLOW AS DETERMINED BY THE SUPPLY AIRFLOW MONITORING STATION, MINUS THE MINIMUM OUTSIDE AIR FLOW AS SPECIFIED IN THE SCHEDULE.

DX COOLING COIL CONTROL:
COMPRESSOR AND COOLING COIL SHALL MODULATE AS REQUIRED TO MAINTAIN A CONSTANT DISCHARGE AIR TEMPERATURE OF 52°F.

UNOCCUPIED MODE
UNIT SHALL REMAIN IN OCCUPIED MODE 24/7.

OCCUPIED MODE
IN OCCUPIED MODE, THE SUPPLY FAN SHALL BE ENABLED TO RUN THROUGH THE VARIABLE FREQUENCY DRIVE (VFD); WILL RUN CONTINUOUSLY AND; THE OUTSIDE AIR CONTROL DAMPER (OA-D) WILL BE ENABLED. THE RETURN AIR DAMPER (RT-D) AND MIXED AIR DAMPER (MA-D) SHALL REMAIN OPEN; THE RELIEF AIR DAMPER (RA-D) SHALL REMAIN CLOSED UNLESS THE ECONOMIZER SEQUENCE IS INITIATED. THE OA-D SHALL GO TO MINIMUM POSITION TO MAINTAIN SCHEDULED OA CFM.

SENSORS :
A DRY CONTACT FROM THE VFD SHALL PROVIDE SUPPLY FAN STATUS FOR THE UNIT SUPPLY FAN. AN ALARM SHALL BE INITIATED WHENEVER THE FAN COMMAND AND STATUS DO NOT MATCH. A FAULT CONTACT SHALL BE INPUT TO THE CONTROLLER TO INDICATE AN INTERNAL PROBLEM WITH THE SUPPLY FAN STARTER.

SAFETIES:
UPON A SIGNAL FROM THE BUILDING FIRE ALARM CONTROL PANEL THRU THE VFD, THE SUPPLY FAN SHALL BE DE-ENERGIZED AND AN ALARM SHALL BE DISPLAYED AT THE OPERATOR'S WORKSTATION. UPON ACTIVATION OF THE FIRE ALARM SYSTEM FOR ANY REASON THE UNIT SHALL SHUT DOWN. IF THE LOW LIMIT SENSOR DROPS BELOW 40 DEGREES, THE SUPPLY FAN SHALL BE STOPPED, COMPRESSOR SHALL BE STOPPED, OUTDOOR AIR DAMPER SHALL CLOSE AND AN ALARM SHALL BE DISPLAYED AT THE OPERATOR'S WORKSTATION.

ECONOMIZER:
WHEN THE DRY-BULB TEMPERATURE OF THE OUTDOOR AIR IS WITHIN THE RANGE OF THE ECONOMIZER'S SETPOINT, THE ECONOMIZER WILL ACT AS THE INITIAL STAGE OF COOLING, WORKING IN SEQUENCE WITH THE COOLING COIL. IN ECONOMIZER MODE, RT-D AND RA-D SHALL FULLY OPEN FOR RELIEF AIR. MA-D SHALL BE FULLY CLOSED AND OA-D SHALL OPEN TO 100%.

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WILLIAM MARIE MEYER

GRANDE DUNES A.S.C.
RENOVATION - PHASE III
Myrtle Beach, South Carolina
for:
HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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REVISIONS:

TITLE:

MECHANICAL CONTROLS

SHEET:

M005

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DEMOLITION KEYNOTES

1. DISCONNECT AND REMOVE EXISTING CEILING MOUNTED AIR DEVICE. DEMOLISH BRANCH DUCTWORK BACK TO LOCATION SHOWN. CAP, AND PATCH INSULATION TO MATCH EXISTING.
2. CONTRACTOR SHALL DOCUMENT THE BOTTOM-OF-DUCT HEIGHT, AND TRUE DIMENSIONED LOCATION OF THE EXISTING EXHAUST DUCT. CONTRACTOR SHALL NOTIFY EOR IF THE EXISTING CONDITIONS ARE NOT ACCEPTABLE FOR NEW ARCHITECTURAL WALLS ADDED IN RENOVATION.

GENERAL NOTES

1. EXISTING MECHANICAL AND DUCTWORK SYSTEMS ARE SHOWN FOR REFERENCE ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR. EXISTING DUCTWORK AND MECHANICAL SYSTEMS INFORMATION IS BASED UPON EXISTING FDACILITY DRAWINGS AVAILABLE FOR THIS PROJECT, AND A LIMITED VISUAL INSPECTION MADE BY THE ENGINEER THRU CEILING TILES AND ACCESS DOORS.

1 MD110 FIRST FLOOR MECHANICAL DEMOLITION PLAN - AREA A
SCALE: 1/4" = 1'-0"

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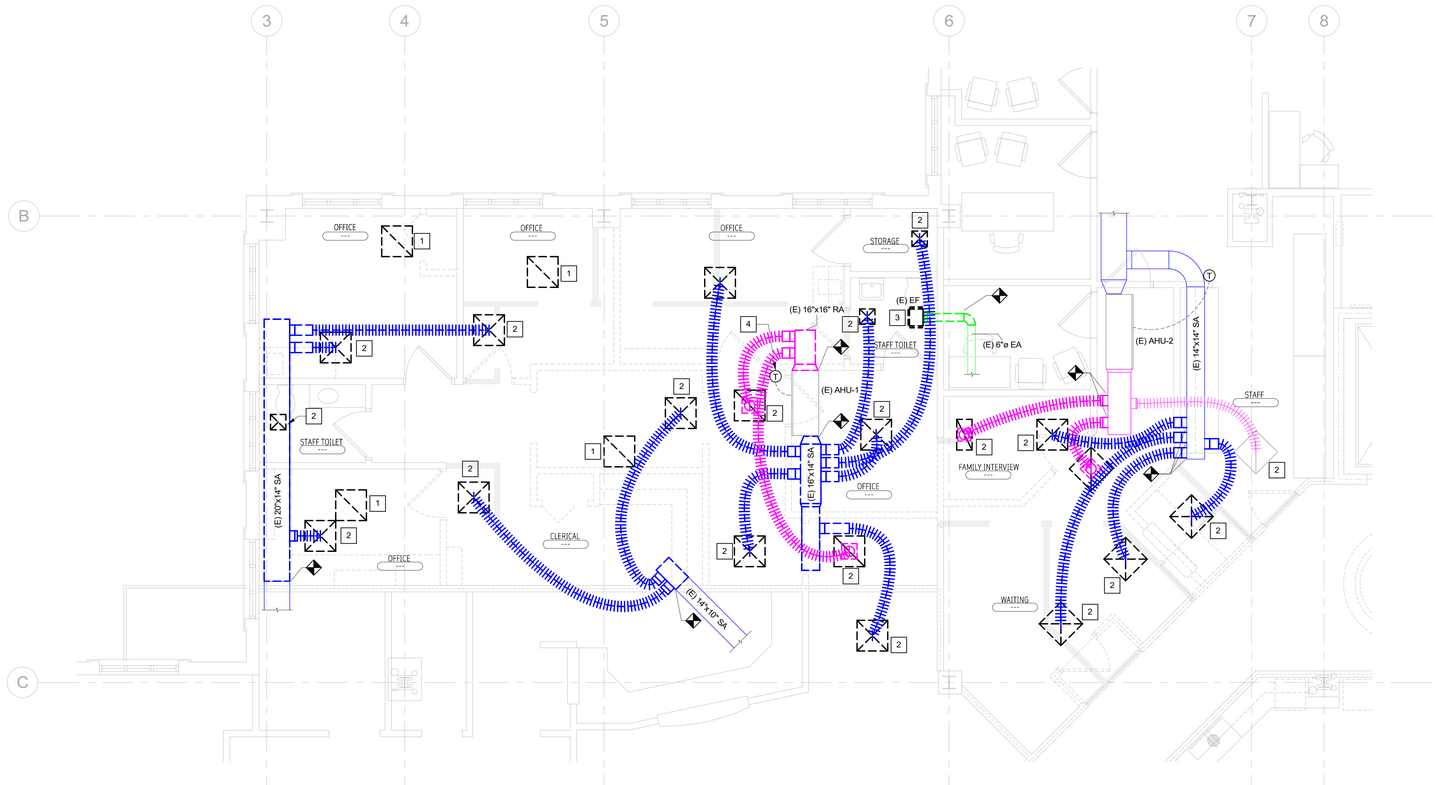
TITLE:
FIRST FLOOR MECHANICAL DUCTWORK DEMOLITION PLAN - AREA A

SHEET:
MD110



1 MD120 SECOND FLOOR MECHANICAL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

DEMOLITION KEYNOTES

1. REMOVE EXISTING RETURN GRILLE, AND ALL APPURTENANCES.
2. DISCONNECT AND REMOVE EXISTING CEILING MOUNTED GRILLE. DEMO BRANCH DUCT BACK TO MAIN AND CAP. PATCH INSULATION TO MATCH EXISTING
3. DEMOLISH CEILING MOUNTED EXHAUST FAN IN ITS ENTIRETY. RELIEF DUCT BRANCH SHALL REMAIN FOR RECONNECTION IN RENOVATION PHASE.
4. DISCONNECT AND REMOVE EXISTING THERMOSTAT TO BE REINSTALLED IN RENOVATION PHASE.

GENERAL NOTES

1. EXISTING MECHANICAL AND DUCTWORK SYSTEMS ARE SHOWN FOR REFERENCE ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR. EXISTING DUCTWORK AND MECHANICAL SYSTEMS INFORMATION IS BASED UPON EXISTING FOACILITY DRAWINGS AVAILABLE FOR THIS PROJECT, AND A LIMITED VISUAL INSPECTION MADE BY THE ENGINEER THRU CEILING TILES AND ACCESS DOORS.
2. PERFORM PRELIMINARY TAB AND MAINTENANCE SERVICE ON EXISTING AHU'S, INTENDED TO BE REUSED, LOCATED ABOVE 2ND FLOOR CEILING.

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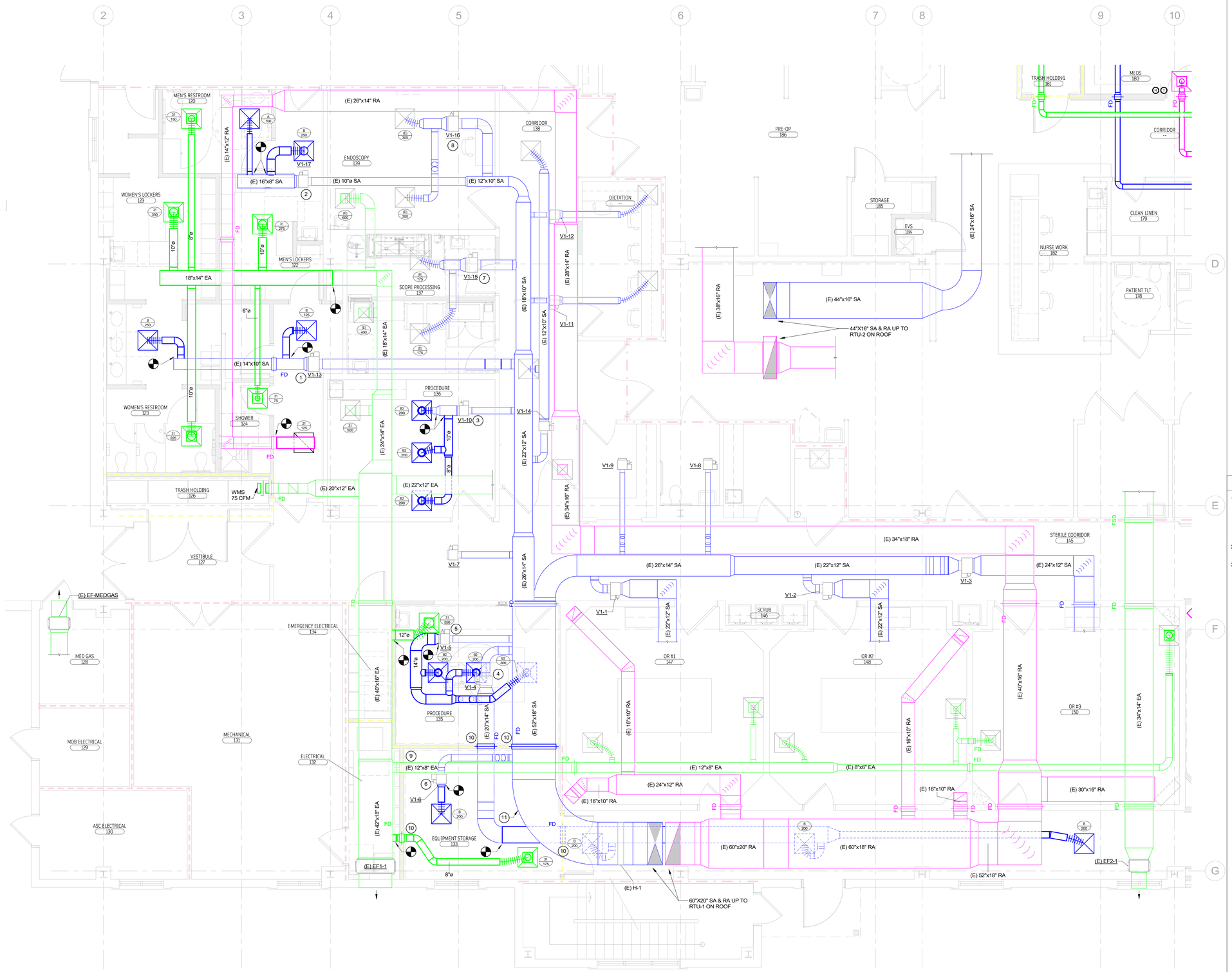
TITLE:
SECOND FLOOR MECHANICAL DUCTWORK DEMOLITION PLAN

SHEET:
MD120



1 M110 FIRST FLOOR MECHANICAL PLAN - AREA A
SCALE: 1/4" = 1'-0"

RENOVATION KEYNOTES

1. REBALANCE EXISTING V1-13 TO 375 CFM.
2. REBALANCE EXISTING V1-17 TO 350 CFM.
3. REBALANCE EXISTING V1-10 TO 600 CFM.
4. REBALANCE EXISTING V1-4 TO 600 CFM.
5. REBALANCE EXISTING V1-5 TO 600 CFM.
6. REBALANCE EXISTING V1-6 TO 200 CFM.
7. REBALANCE EXISTING V1-15 TO 350 CFM.
8. REBALANCE EXISTING V1-16 TO 600 CFM.
9. FIRE DAMPER SHALL NOT BE REQUIRED IN THIS LOCATION, PER 2021 IMC SECTION 607.5.3 EXCEPTIONS.
10. NEW FIRE DAMPER SHALL BE INSTALLED IN THIS LOCATION.
11. PROVIDE EQUIVALENT 1-HR. FIRE RATED WRAP (3M FIRE BARRIER DUCT WRAP, OR EQUAL) ON EXISTING SUPPLY AIR DUCT. ALL SURFACES MUST BE COVERED WITH FIRE WRAP, AND ALL FIRE WRAP SEAMS SHALL BE SEALED PER MANUFACTURER'S RECOMMENDATIONS.

GENERAL NOTES

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2. PROVIDE MANUAL BALANCING DAMPER ON EACH DUCTED SUPPLY, RETURN, AND EXHAUST DUCT BRANCH.
3. SUPPLY, RETURN AND EXHAUST AIR DEVICES LOCATED IN HARD CEILINGS SHALL BE PROVIDED WITH CABLE OPERATED DAMPERS, WITH ADJUSTER ACCESSIBLE FROM THE ROOM SERVED.

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FIRST FLOOR MECHANICAL DUCTWORK PLAN - AREA A

SHEET:

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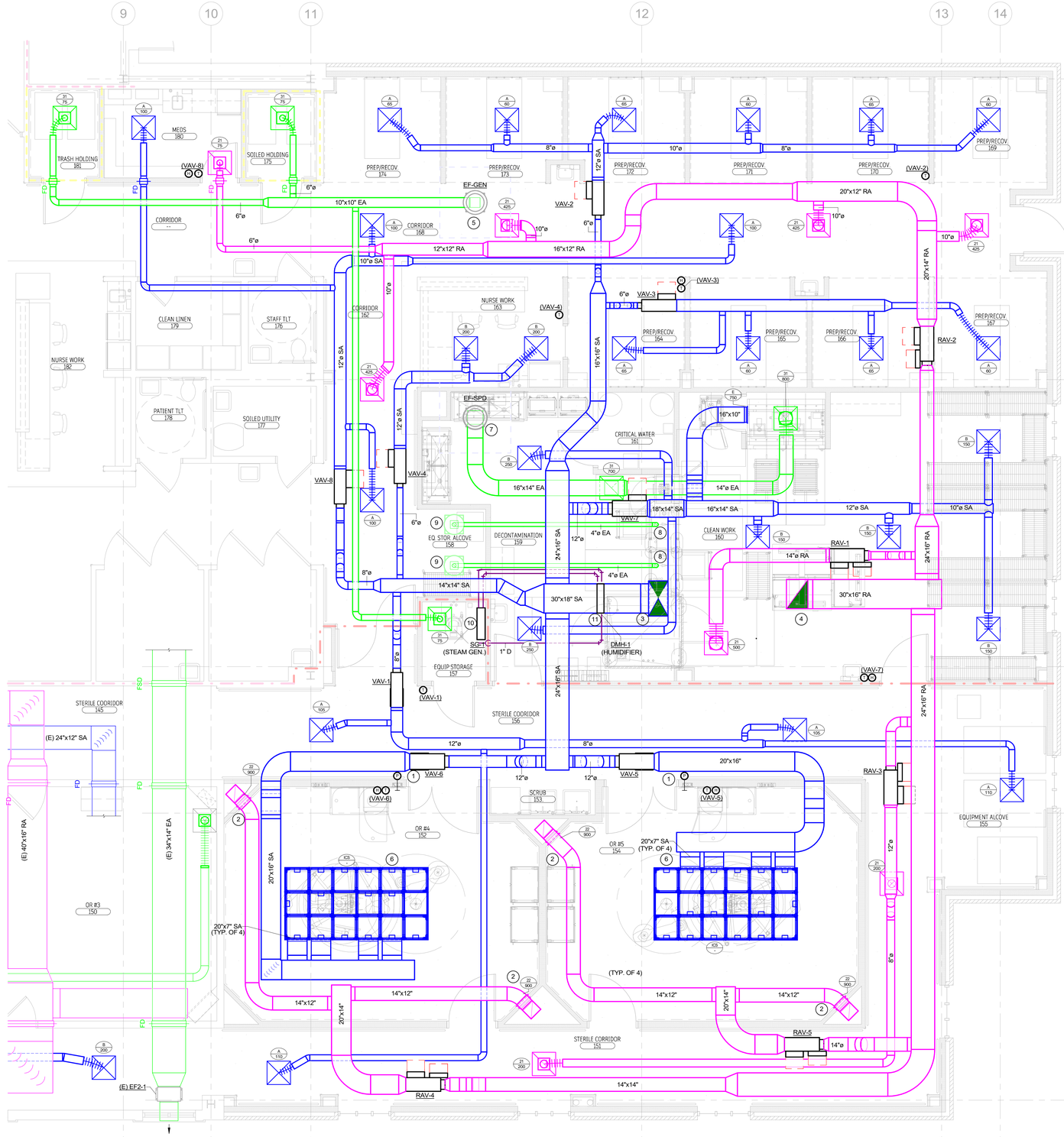

1 M111 FIRST FLOOR MECHANICAL PLAN - AREA B
SCALE: 1/4" = 1'-0"

RENOVATION KEYNOTES

1. PROVIDE ROOM PRESSURE MONITORING SYSTEM FOR OPERATING ROOMS. OR'S SHALL MAINTAIN A POSITIVE PRESSURE RELAITONSHIP TO ADJACENT SPACES (+0.01" WG)
2. PROVIDE LOW-WALL RETURNS AT 1'-0" A.F.F. IN OPERATING ROOMS. RETURN DUCT SHALL BE ROUTED ABOVE CEILING TO THE WALL CAVITY, TURN DOWN, AND TERMINTATE WITH A SIDEWALL RETURN GRILLE.
3. 30" x 18" SA DUCT DOWN FROM RTU ON ROOF ABOVE
4. 30" x 18" RA DUCT DOWN FROM RTU ON ROOF ABOVE
5. 10" x 10" EA DUCT UP TO EF-GEN ON ROOF ABOVE
6. PRICE ULTRASUITE INTEGRATED CEILING SYSTEM, OR EQUAL, BALANCED TO 1900 CFM
7. 16" x 14" EA DUCT UP TO EF-SPD ON ROOF ABOVE
8. 4" EXHAUST VENT CONNECTION FOR WASHER/DISINFECTOR.
9. 4" EXHAUST VENT UP TO GRAVITY RELIEF, GRV, ON ROOF ABOVE. GREENHECK GRSR-8 OR EQUAL.
10. NEW CLEAN STEAM GENERATOR TO SERVE HUMIDIFYING STEAM TO DMH-1. INSTALL PER MANUFACTURER'S RECOMMENDED INSTRUCTIONS. SEE DETAILS 1 THRU 3/M004
11. NEW DUCT MOUNTED HUMIDIFIER, DMH-1, TO BE INSTALLED PER MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS. SEE DETAILS 1 THRU 3/M004.

GENERAL NOTES

1. EXISTING MECHANICAL AND DUCTWORK SYSTEMS ARE SHOWN FOR REFERENCE ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR. EXISTING DUCTWORK AND MECHANICAL SYSTEMS INFORMATION IS BASED UPON EXISTING FDACILITY DRAWINGS AVAILABLE FOR THIS PROJECT, AND A LIMITED VISUAL INSPECTION MADE BY THE ENGINEER THRU CEILING TILES AND ACCESS DOORS.
2. PROVIDE MANUAL BALANCING DAMPER ON EACH DUCTED SUPPLY, RETURN, AND EXHAUST DUCT BRANCH.
3. SUPPLY, RETURN, AND EXHAUST AIR DEVICES LOCATED IN HARD CEILINGS SHALL BE PROVIDED WITH CABLE OPERATED DAMPERS, WITH ADJUSTER ACCESSIBLE FROM THE ROOM SERVED.

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DWG, INC. CONSULTING ENGINEERS No.C03649 SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 31117 REGISTERED ARCHITECT JILLIAN MARIE MEYER 1/6/2025

GRANDE DUNES A.S.C.
RENOVATION - PHASE III
Myrtle Beach, South Carolina
for:
HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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TITLE:

FIRST FLOOR MECHANICAL DUCTWORK PLAN - AREA B

SHEET:

M111

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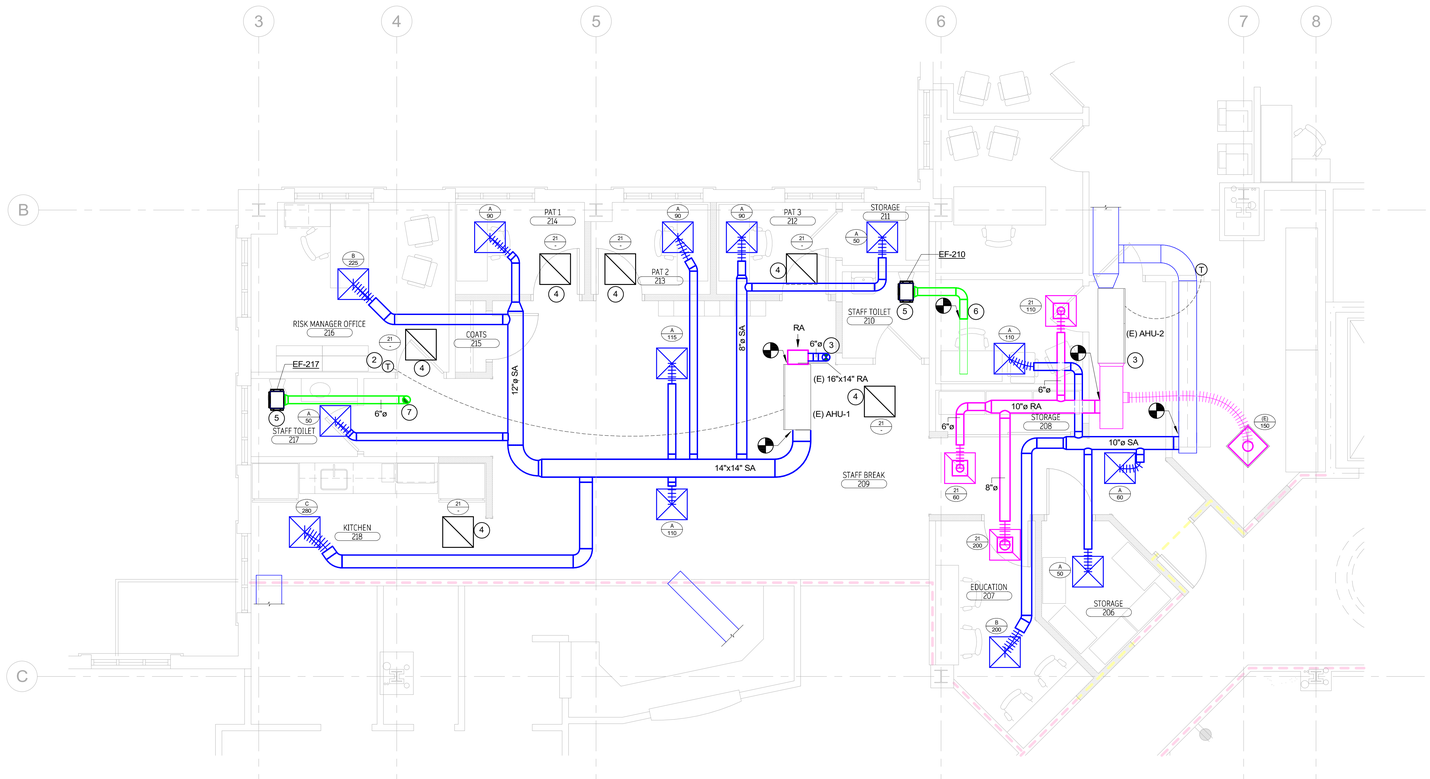

1 M120 SECOND FLOOR MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

RENOVATION KEYNOTES

1. INSTALL NEW 16"X14" OPEN ENDED RETURN DUCT FOR PLENUM RETURN AIR PATH
2. INSTALL RELOCATED THERMOSTAT FOR (E)AHU-1 IN NEW LOCATION
3. CONTRACTOR SHALL FIELD VERIFY IF AN OUTSIDE AIR INTAKE IS PRESENT AT THE RETURN-SIDE OF ABOVE CEILING AHU. IF NO OA DUCT IS PRESENT, THE CONTRACTOR SHALL FIELD ROUTE AND INSTALL A 6" OUTSIDE AIR DUCT UP TO A FIELD-LOCATED LOCATION ON THE ROOF, AND TERMINATE WITH A GRAVITY INTAKE CAP, GREENHECK GRSI-8 OR EQUAL.
4. PROVIDE RETURN AIR CANOPY, FOR ALL PLENUM RETURN GRILLES. SEE DETAIL 4/M004.
5. INSTALL NEW CEILING MOUNTED EXHAUST FAN IN RESTROOM CEILING. INSTALL PER MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS.
6. RECONNECT NEW EXHAUST FAN TO EXISTING RELIEF DUCT ABOVE CEILING.
7. ROUTE NEW 6" EXHAUST DISCHARGE DUCT UP TO NEW GRAVITY RELIEF VENT ON ROOF ABOVE, GREENHECK GRSR-8 OR EQUAL.
8. CONTRACTOR SHALL FIELD ROUTE AND INSTALL A 6" OUTSIDE AIR DUCT UP TO A FIELD-LOCATED LOCATION ON THE ROOF, AND TERMINATE WITH A GRAVITY INTAKE CAP, GREENHECK GRSI-8 OR EQUAL.

GENERAL NOTES

1. EXISTING MECHANICAL AND DUCTWORK SYSTEMS ARE SHOWN FOR REFERENCE ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR. EXISTING DUCTWORK AND MECHANICAL SYSTEMS INFORMATION IS BASED UPON EXISTING FDACILITY DRAWINGS AVAILABLE FOR THIS PROJECT, AND A LIMITED VISUAL INSPECTION MADE BY THE ENGINEER THRU CEILING TILES AND ACCESS DOORS.
2. PROVIDE MANUAL BALANCING DAMPER ON EACH DUCTED SUPPLY AND RETURN DUCT BRANCH.

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SECOND FLOOR MECHANICAL DUCTWORK PLAN

SHEET:

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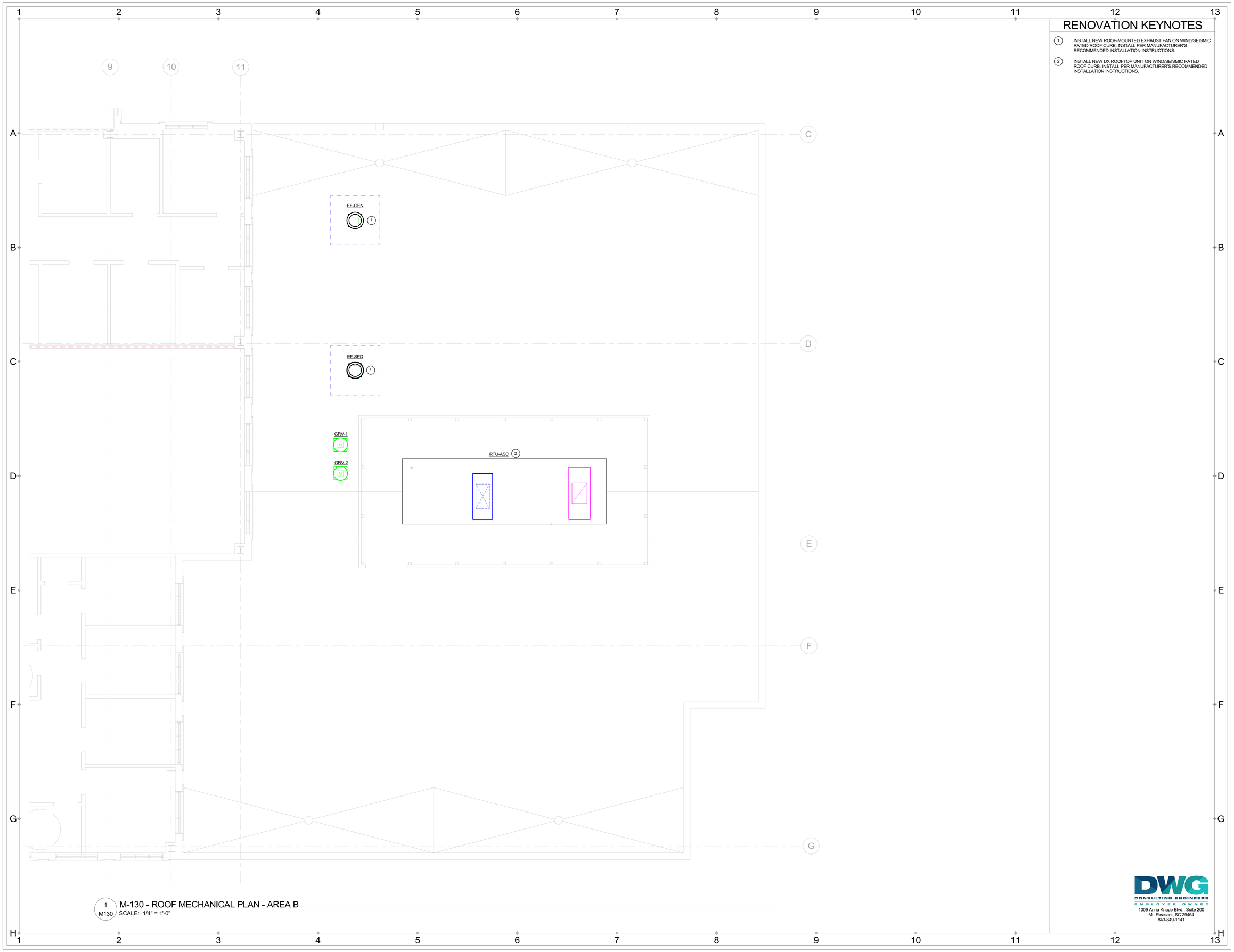

1 M130 M-130 - ROOF MECHANICAL PLAN - AREA B
SCALE: 1/4" = 1'-0"

RENOVATION KEYNOTES

1. INSTALL NEW ROOF-MOUNTED EXHAUST FAN ON WIND/SEISMIC RATED ROOF CURB. INSTALL PER MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS.
2. INSTALL NEW DX ROOFTOP UNIT ON WIND/SEISMIC RATED ROOF CURB. INSTALL PER MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS.

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GRANDE DUNES A.S.C. RENOVATION - PHASE III

Myrtle Beach, South Carolina

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ROOF MECHANICAL PLAN - AREA B

SHEET:

M130

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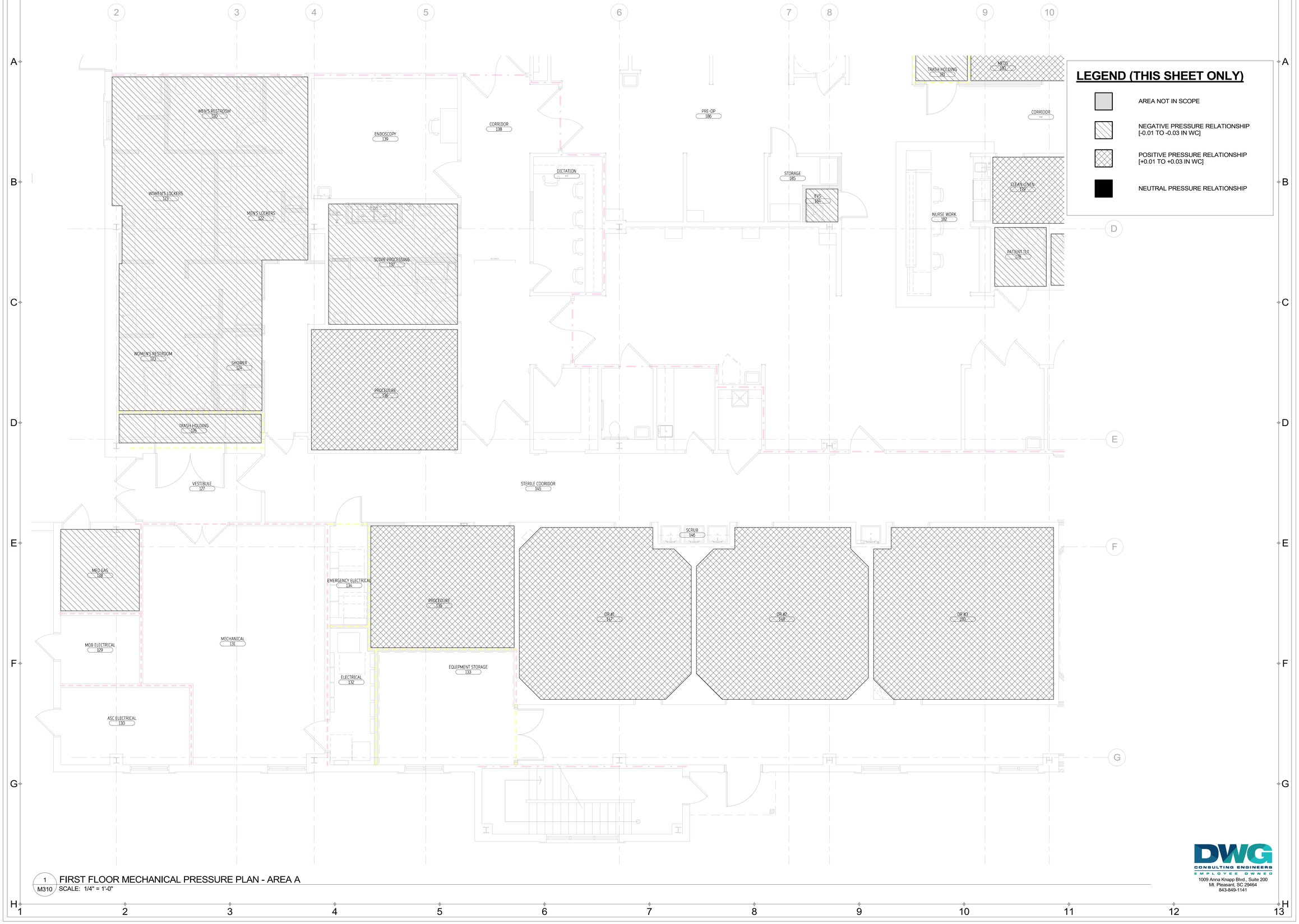

1 M310 FIRST FLOOR MECHANICAL PRESSURE PLAN - AREA A
SCALE: 1/4" = 1'-0"

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FIRST FLOOR MECHANICAL PRESSURE PLAN - AREA A

SHEET:

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LEGEND (THIS SHEET ONLY)

- AREA NOT IN SCOPE
- NEGATIVE PRESSURE RELATIONSHIP [-0.01 TO -0.03 IN WC]
- POSITIVE PRESSURE RELATIONSHIP [+0.01 TO +0.03 IN WC]
- NEUTRAL PRESSURE RELATIONSHIP

1 / M311 FIRST FLOOR MECHANICAL PRESSURE PLAN - AREA B
SCALE: 1/4" = 1'-0"

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FIRST FLOOR MECHANICAL PRESSURE PLAN - AREA B

SHEET:

M311

ELECTRICAL SYSTEMS SEISMIC REQUIREMENTS

PER IBC-2021/ASCE 7-16

A. PER THE 2021 INTERNATIONAL BUILDING CODE, MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT AND COMPONENTS, INCLUDING THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED FOR SEISMIC FORCES IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7-16.

B. EXTERIOR EQUIPMENT (INCLUDING ROOF CURBS, RAILS, SUPPORTS) EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH CHAPTER 26 TO 29 OF ASCE 7-16.

C. WHERE DESIGN FOR SEISMIC AND WIND LOADS IS REQUIRED, THE MORE DEMANDING FORCE MUST BE USED.

D. REFERENCE THE STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY, WIND SPEEDS, ETC.

E. USE THE TABLE BELOW TO DETERMINE SEISMIC RESTRAINT REQUIREMENTS FOR EACH COMPONENT.

F. FOR ALL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL REGISTERED IN THE STATE THE JOB IS LOCATED. SUBMITTALS MUST INCLUDE STAMPED AND SIGNED DRAWINGS AND CALCULATIONS.

G. WHERE SEISMIC RESTRAINT IS REQUIRED, HOUSEKEEPING PADS NEEDED FOR THE INSTALLATION OF EQUIPMENT UNDER THIS CONTRACT MUST BE DESIGNED BY THE SEISMIC ENGINEER. DO NOT POUR ANY HOUSEKEEPING PADS PRIOR TO THE RECEIPT OF THE APPROVED SEISMIC SUBMITTAL.

H. SEISMIC RESTRAINTS FOR DUCTWORK, PIPING, CONDUIT, CABLE TRAYS AND BUS DUCT MUST BE SHOWN ON LAYOUT DRAWINGS SHOWING SPECIFIC RESTRAINT LOCATIONS ALONG WITH ACCOMPANYING DETAILS AND CALCULATIONS.

ELECTRICAL COMPONENT IMPORTANCE FACTOR (Ip) DESIGNATION

Ip = 1.5

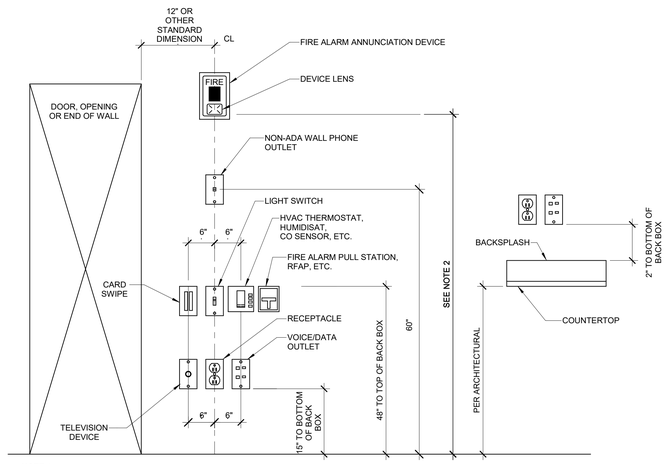
- ALL ASSOCIATED ELECTRICAL WORK

SEISMIC DESIGN CATEGORIES D,E,F

	COMPONENT IMPORTANCE FACTOR (Ip)			
	1.0		1.5	
COMPONENT IDENTIFICATION	SEISMIC RESTRAINT REQUIREMENT	NOTES	SEISMIC RESTRAINT REQUIREMENT	NOTES
ROOF MOUNTED	RESTRAIN ALL	1	RESTRAIN ALL	-
FLOOR MOUNTED	RESTRAIN ALL	1,2	RESTRAIN ALL	-
WALL MOUNTED	RESTRAIN ALL	1,2	RESTRAIN ALL	-
COMPONENT SUPPORTS	RESTRAIN ALL	1	RESTRAIN ALL	-
SUSPENDED EQUIPMENT	RESTRAIN ALL	1	RESTRAIN ALL	-
SINGLE CONDUIT	RESTRAIN IF ≥ 2.5"	3	RESTRAIN IF ≥ 2.5"	3
CABLE TRAY/BUS DUCT TRAPEZED CONDUIT	DO NOT DELETE ON TRAPEZE ≥ 2.5" RESTRAIN IF TOTAL WEIGHT OF SUSPENDED COMPONENT > 10 LBS/FT	3	RESTRAIN IF ANY CONDUIT ON TRAPEZE ≥ 2.5" RESTRAIN IF TOTAL WEIGHT OF SUSPENDED COMPONENT > 10 LBS/FT	3
COMPONENT CERTIFICATION	NOT REQUIRED	-	REQUIRED	5
PENDANT, LAY-IN AND CAN LIGHTS	REQUIRED	4	REQUIRED	4

NOTES:

1. EQUIPMENT 20 LBS. OR LESS IS EXEMPT IF THE COMPONENT IS POSITIVELY ATTACHED TO THE STRUCTURE AND FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.
2. RESTRAINTS ARE NOT REQUIRED IF THE COMPONENT WEIGHS 400 LBS. OR LESS, IS MOUNTED WITH THE CENTER MASS AT 4' OR LESS ABOVE A FLOOR, IS POSITIVELY ATTACHED TO THE STRUCTURE, AND HAS FLEXIBLE CONNECTIONS BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.
3. RESTRAINT IS NOT REQUIRED IF THE CONDUIT IS SUPPORTED BY HANGERS AND EACH HANGER IN THE RUN IS 12" IN. OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE SUPPORTING STRUCTURE. WHERE PIPES ARE SUPPORTED ON A TRAPEZE, THE TRAPEZE SHALL BE SUPPORTED BY HANGERS HAVING A LENGTH OF 12" IN. OR LESS. WHERE ROD HANGERS ARE USED, THEY SHALL BE EQUIPPED WITH SWIVELS, EYE NUTS OR OTHER DEVICES TO PREVENT BENDING IN THE ROD.
4. THE RESTRAINT OF PENDANT, LAY-IN AND CAN LIGHTS IS ADDRESSED IN ASTM C636 AND E580.
5. COMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT TIME OF SUBMITTAL FOR REVIEW BY ENGINEER OF RECORD.



NOTE 1:
DEVICES SHOWN WITHIN 48" OF EACH OTHER ON ALL ELECTRICAL PLANS SHALL BE ALIGNED PER THIS DETAIL. IF DEVICES ARE SHOWN IN MIDDLE OF WALL, THEN CENTER DEVICES ON WALL.

NOTE 2:
MOUNT 80" ABOVE FINISHED FLOOR WHERE POSSIBLE. WHERE CEILING HEIGHTS DO NOT ALLOW THIS HEIGHT, MOUNT 6" BELOW CEILING. WHERE OBSTRUCTIONS DO NOT ALLOW THIS HEIGHT, MOUNT 80" TO 96" ABOVE FINISHED FLOOR. ALL MOUNTING HEIGHTS FOR NOTIFICATION DEVICES SHALL BE MEASURED TO THE BOTTOM OF THE LENS.

1 / E-001 DEVICE ALIGNMENT DETAIL

NOT TO SCALE

GENERAL ELECTRICAL NOTES

1. BRANCH CIRCUIT WIRING FOR 20A CIRCUITS SHALL BE SIZED PER WIRE SIZING CHART. WHERE CONDUCTOR AND RACEWAY SIZE ARE SHOWN AT HOMERUN, SUCH SIZE SHALL BE USED FOR THE ENTIRE CIRCUIT. EXCEPTION: FINAL CONNECTION TO DEVICES IN OUTLET BOXES IS NOT REQUIRED TO BE LARGER THAN #12.
2. PRIOR TO ROUGH-IN, COORDINATE THE LOCATION AND MOUNTING HEIGHT OF ALL WALL MOUNTED DEVICES WITH THE ARCHITECTURAL INTERIOR ELEVATIONS AND MILLWORK SHOP DRAWINGS. IN THE EVENT OF A CONFLICT, NOTIFY THE ARCHITECT. MINOR ADJUSTMENTS IN DEVICE LOCATION, SUCH AS 5'-0" IN ANY DIRECTION, SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER. UNDERCABINET LIGHT FIXTURES, RECEPTACLES AND OTHER DEVICES TO BE MOUNTED INSIDE CABINETS SHALL BE REVIEWED WITH THE ARCHITECT PRIOR TO ROUGH IN TO CONFIRM THE EXACT LOCATION OF FIXTURES AND DEVICES.
3. COORDINATE THE LOCATION OF ALL FLOOR BOXES WITH THE ARCHITECT PRIOR TO ROUGH IN. ALL FLOOR BOXES SHALL BE INSTALLED TO MAINTAIN THE FIRE RATING OF THE FLOOR. COORDINATE CORE DRILLING HOLES IN FLOOR WITH STRUCTURAL ENGINEER.
4. OUTLET BOXES FOR SWITCHES, RECEPTACLES, ETC. MOUNTED ON OPPOSITE SIDES OF PARTITIONS SHALL NOT BE MOUNTED IN THE SAME WALL CAVITY. SEPARATE WALL PENETRATIONS BY MOUNTING ON OPPOSITE SIDES OF WALL STUDS OR OTHER VERTICAL STRUCTURAL MEMBERS IN THE WALL.
5. RACEWAYS SHALL BE INSTALLED CONCEALED IN NEW WALL CONSTRUCTION, ABOVE CEILINGS, BELOW FLOOR AND IN OTHER CAVITIES TO THE GREATEST EXTENT POSSIBLE. EXPOSED RACEWAYS MAY BE USED IN UNFINISHED SPACES, WHERE EXPLICITLY NOTED ON PLANS AND WHERE APPROVED BY THE ARCHITECT AND ENGINEER. LAY OUT EXPOSED RACEWAYS TO MINIMIZE THE NUMBER OF VERTICAL RUNS.
6. FEEDER CONDUIT AND BRANCH CIRCUITS ROUTING SHALL COMPLY WITH DETAILS ON DRAWINGS AND SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES BEFORE AND DURING CONSTRUCTION. FEEDER CONDUITS AND BRANCH CIRCUITS SHALL BE ROUTED OVERHEAD UNLESS PRIOR APPROVAL HAS BEEN GRANTED BY THE ARCHITECT AND ENGINEER.
7. WHERE LIGHT SWITCH AND ABOVE COUNTER RECEPTACLES ARE INDICATED TO BE MOUNTED ADJACENT TO EACH OTHER, THE DEVICES SHALL BE MOUNTED IN THE SAME BOX UNDER A COMMON DEVICE PLATE. IN THE CASE WHERE THE DEVICE VOLTAGES ARE DIFFERENT, PROVIDE A PERMANENT VOLTAGE BARRIER IN THE BOX PER NEC 404.8.B.
8. TE USE OF MC CABLE IS NOT ALLOWED, UNLESS NOTED OTHERWISE.
9. PROVIDE A LISTED EXPANSION/DEFLECTION FITTING FOR ALL CONDUIT CROSSING EXPANSION JOINTS PER NEC 300.4.H. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF EXPANSION JOINTS.
10. WHEREVER THE WORD "PROVIDE" IS USED ON THE ELECTRICAL DRAWINGS, IT SHALL BE INFERRED TO MEAN "FURNISH AND INSTALL", UNLESS NOTED OTHERWISE.
11. THE ARRANGEMENT, GROUPING, AND ROUTING OF BRANCH CIRCUITS SHALL BE PROVIDED AT THE CONTRACTOR'S DISCRETION IN ACCORDANCE WITH GENERALLY ACCEPTED PRACTICE FOR ELECTRICAL WORK, THE NATIONAL ELECTRICAL CODE REQUIREMENTS, LOCAL ORDINANCES, AND THE FOLLOWING: 1 - MULTIPLE SINGLE-POLE BRANCH CIRCUITS (UP TO 3 HOTS, 3 NEUTRALS AND 1 GROUND) RATED FOR 30A OR LESS MAY BE PULLED INTO A SINGLE RACEWAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING THE RACEWAYS AND DE-RATING CONDUCTORS PER NEC 310.15. 2 - A GROUND CONDUCTOR SHALL BE PROVIDED IN ALL RACEWAYS UNLESS NOTED OTHERWISE.
12. PROJECT WILL BE SPLIT INTO 3 PHASES. PHASE 1: ASC ADDITION AND 2ND FLOOR RENOVATION. PHASE 2: FIRST FLOOR LOCKER ROOM, PROCEDURE ROOM, AND ELECTRICAL ROOMS. PHASE 3: FINISHES. ASC ADDITION WILL NOT HAVE POWER UNTIL PHASE 2 IS COMPLETED. REFER TO THE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION ON PHASING.
13. REFER TO CIVIL DRAWINGS FOR LOCATIONS OF EXISTING LEASED LIGHT POLES TO BE RELOCATED. COORDINATE WITH SANTEE COOPER FOR SITE LIGHTING REQUIREMENTS.

GENERAL TEMPORARY POWER NOTES

1. WHILE NEW ASC NORMAL POWER AND EMERGENCY POWER ELECTRICAL ROOMS ARE BEING CONSTRUCTED, THE ADDITION SHALL BE POWERED TEMPORARILY FROM EXISTING PANELS IN THE EXISTING ASC ELECTRICAL ROOM.
2. NEW CIRCUITS/OR ISOLATED POWER PANELS ON THE NORMAL POWER BRANCH SHALL BE TEMPORARILY POWERED FROM EXISTING PANEL LN.
3. NEW CIRCUITS/OR ISOLATED POWER PANELS ON THE CRITICAL BRANCH SHALL BE TEMPORARILY POWERED FROM EXISTING PANELS HC OR LC.
4. NEW CIRCUITS ON THE EQUIPMENT BRANCH SHALL BE TEMPORARILY POWERED FROM EXISTING PANELS HEQ OR LEQ.
5. NEW CIRCUITS ON THE LIFE SAFETY BRANCH SHALL BE TEMPORARILY POWERED FROM EXISTING PANEL HC OR LEA.
6. EXISTING PANELS HC, LC, LN, HEQ, LEQ AND LEA SHALL BE METERED TO DETERMINE REMAINING PANEL CAPACITY. NOTIFY ENGINEER IF ADDITION OF TEMPORARY CIRCUITS TO AN EXISTING PANEL INCREASES THE PANEL LOAD TO OVER 80% OF RATED CAPACITY.
7. ADD CIRCUIT BREAKERS TO EXISTING PANELS NOTED ABOVE IF REQUIRED FOR TEMPORARY LOADS. NOTIFY ENGINEER IF PANEL DOES NOT HAVE PHYSICAL SPACE FOR ADDITIONAL/CIRCUIT BREAKERS.

GENERAL LIGHTING NOTES

1. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR THE EXACT LOCATION OF ALL CEILING MOUNTED LIGHTING FIXTURES. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING DETAILS OF LIGHT FIXTURE TO ACOUSTICAL CEILING SYSTEM AND STRUCTURE.
2. LIGHTING FIXTURE CATALOG NUMBERS ARE INDICATIVE OF THE STYLE OF FIXTURE REQUIRED. CONTRACTOR SHALL PROVIDE FIXTURES WITH THE PROPER TRIM, VOLTAGE AND OPTIONS NECESSARY FOR INSTALLATION.
3. DOUBLE-FACED EXIT FIXTURES SHALL BE OF THE SAME MANUFACTURER AND SERIES AS THE SINGLE-FACED EXIT FIXTURES.
4. REGARDLESS OF CATALOG NUMBER INDICATED IN SCHEDULE, EMERGENCY LIGHTING UNITS SHALL BE PROVIDED WITH BATTERY BACK-UP. SHALL BE WIRED AHEAD OF LOCAL SWITCH AND SHALL NOT BE SWITCHED.
5. SWITCHING FOR EMERGENCY LIGHT FIXTURES SHALL BE PROVIDED WITH A RED COLORED SWITCH.

GENERAL LOW VOLTAGE NOTES

1. EXTEND A 1" CONDUIT WITH PULL WIRE FROM EACH COMMUNICATION OUTLET TO ABOVE THE LAY-IN CEILING. TURN CONDUIT 12" INTO CEILING CAVITY A MINIMUM OF 6" ABOVE THE CEILING AND TERMINATE WITH AN INSULATED THROAT BUSHING.
2. EXTEND A 1/2" CONDUIT WITH PULL WIRE FROM EACH ACCESS CONTROL AND SECURITY DEVICE TO ABOVE THE LAY-IN CEILING. TURN CONDUIT 12" INTO CEILING CAVITY A MINIMUM OF 6" ABOVE THE CEILING AND TERMINATE WITH AN INSULATED THROAT BUSHING.

GENERAL OPERATING ROOM NOTES

1. ALL RECEPTACLES ON EMERGENCY POWER CIRCUITS SHALL BE RED WITH RED COVERPLATES.
2. CERTIFY ISOLATION POWER PANEL UPON COMPLETION OF WORK.
3. CONDUIT TERMINATION FITTINGS SHALL BE STEEL TYPE ONLY.
4. ISOLATED POWER CIRCUITS SHALL BE 20A/120V, UNLESS NOTED OTHERWISE. ALL CIRCUIT WIRING, INCLUDING LINE, NEUTRAL AND GROUNDING CONDUCTORS SHALL BE TYPE XHHW AND SHALL HAVE THE FOLLOWING CHARACTERISTICS: DIELECTRIC CONSTANT LESS THAN 3.5, INSULATION RESISTANCE CONSTANT 6100 MEGOHM-METERS (20,000 MEGOHM-FEET) AT 16 DEGREES CELSIUS (60 DEGREES FAHRENHEIT).
5. COLOR CODING OF THE ISOLATED POWER CONDUCTORS SHALL BE PER NEC ARTICLE 517. CONDUCTOR NO. 1 - ORANGE WITH AT LEAST ONE DISTINCTIVE COLORED STRIPE OTHER THAN WHITE, GREEN, OR GRAY ALONG THE ENTIRE LENGTH OF THE CONDUCTOR. CONDUCTOR NO. 2 - BROWN WITH AT LEAST ONE DISTINCTIVE COLORED STRIP OTHER THAN WHITE, GREEN, OR GRAY ALONG THE ENTIRE LENGTH OF THE CONDUCTOR.
6. DO NOT USE PULLING LUBRICANT ON ISOLATION POWER PANEL WIRING.

GENERAL HVAC CONTROLS CONDUIT NOTES

1. PROVIDE CONDUIT FOR HVAC CONTROL CIRCUITS AS REQUIRED TO INTERCONNECT HVAC UNIT TO CONTROL CIRCUITS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR AND CONTROLS PROVIDER TO DETERMINE SCOPE OF CONDUITS REQUIRED FOR HVAC CONTROLS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED CONDUIT. COORDINATE POINTS OF CONNECTION WITH DIVISION 23. PROVIDE PULL CORD IN ALL EMPTY CONDUITS. SEE MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL HVAC EQUIPMENT (AHU, HP, CU, RTU, DUCT SMOKE DETECTORS, VAV, FCU, THERMOSTATS, ETC).
2. THESE DOCUMENTS MAY NOT INCLUDE ENTIRE ELECTRICAL INFRASTRUCTURE REQUIRED TO SUPPORT THE BUILDING AUTOMATION SYSTEM. COORDINATE WITH BAS PROVIDER ON ALL NECESSARY INFRASTRUCTURE FOR A COMPLETE AND WORKING SYSTEM.

GENERAL EXISTING CONDITION NOTES

1. AREAS OF WORK EXIST FOR THIS PROJECT WHICH WERE NOT ACCESSIBLE OR HAD LIMITED ACCESS DURING DESIGN. AS SUCH, CONTRACTOR SHALL VERIFY ALL UTILITIES IN AREA OF WORK BEFORE DEMOLITION OF ANY SERVICE. ANY ELECTRICAL COMPONENTS NOT SHOWN SHALL BE IDENTIFIED AND THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED AS SOON AS POSSIBLE. NO ELECTRICAL REWORK SHALL BE COMMENCED WITHOUT COORDINATION OF BOTH ARCHITECT AND ENGINEER. WHERE INFORMATION SHOWN ON THESE DRAWINGS CONFLICTS WITH VERIFIED FIELD CONDITIONS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER.
2. IN AREAS WHERE THE EXISTING CEILINGS ARE NOT SLATED TO BE REPLACED, THE CONTRACTOR SHALL WORK THROUGH THE EXISTING CEILINGS (SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR AREA OF WORK). THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY DAMAGED TILE OR GRID THAT IS A RESULT OF THEIR WORK. ALL WORK PERFORMED ABOVE EXISTING CEILINGS SHALL BE PERFORMED AFTER HOURS AND SCHEDULED WITH THE OWNER IN ADVANCE.
3. WHERE INSTALLATION REQUIRES CUTTING OR DRILLING OF THE EXISTING FLOOR SLAB, THE CONTRACTOR SHALL X-RAY THE EXISTING SLAB PRIOR TO WORK TO ENSURE THAT NO EXISTING UTILITIES OR STRUCTURAL ELEMENTS IN THE SLAB WILL BE COMPROMISED BY THE WORK. NOTIFY THE A/E OF ANY CONFLICTS THAT WILL REQUIRE RELOCATING THE PROPOSED SLAB WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED UTILITIES OR STRUCTURAL ELEMENTS CAUSED BY THE SLAB DEMOLITION.
4. PROVIDE UPDATED TYPED PANELBOARD SCHEDULES FOR ALL PANELS AFFECTED DURING RENOVATION AT PROJECT COMPLETION.

GENERAL DEMOLITION NOTES

1. ALL ELECTRICAL EQUIPMENT TO BE REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIALS UNTIL RELEASED BY THE OWNER'S PROJECT MANAGER. MATERIALS THAT THE OWNER'S PROJECT MANAGER CHOOSES TO RETAIN SHALL BE DELIVERED BY THE CONTRACTOR TO A LOCATION DESIGNATED BY THE PROJECT MANAGER. ALL OTHER MATERIALS SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR.

ELECTRICAL ABBREVIATIONS

ABBR	DESCRIPTION
(E)	EXISTING
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
BAS	BUILDING AUTOMATION SYSTEM
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BOD	BOTTOM OF DEVICE
CBB	COMMUNICATIONS BACKBOARD
cd	CANDELA
CGB	COMMUNICATIONS GROUNDING BUSBAR
CLG	CEILING
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FDS	FUSED DISCONNECT SWITCH
GBB	GROUND BUSBAR
GD	GARBAGE DISPOSAL
GFCI	GROUND-FAULT CIRCUIT-INTERRUPTING
GFI	GROUND-FAULT INTERRUPTING
GP	GENERAL PURPOSE
HP	HEAT PUMP
IG	ISOLATED GROUND
J-BOX	JUNCTION BOX
kW	KILOWATTS
LCS	LIGHTING CONTROL SYSTEM
MCGB	MAIN COMMUNICATIONS GROUNDING BUSBAR
NEC	NATIONAL ELECTRICAL CODE
NFDS	NON-FUSED DISCONNECT SWITCH
OC	ON CENTER
RTU	ROOF TOP UNIT
SPD	SURGE PROTECTION DEVICE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UTP	UNSHIELDED TWISTED PAIR
W/	WITH
WH	WATER HEATER
WP	WEATHERPROOF
XFMR	TRANSFORMER
CONTROL PANELS	**DESCRIPTION**
FACP	FIRE ALARM CONTROL PANEL
JUNCTION BOX/SWITCH	**DESCRIPTION**
AD	AUTOMATIC DOOR
DH	DOOR HARDWARE
E	EMERGENCY POWER
MG	MED GAS ALARM PANEL
SL	SURGICAL LIGHT
LIGHT SWITCH	**DESCRIPTION**
3	THREE WAY
4	FOUR WAY
D	DIMMER
OD	COMBINATION OCCUPANCY SENSOR / DIMMER
OS	OCCUPANCY SENSOR
VD	COMBINATION VACANCY SENSOR / DIMMER
RECEPTACLE	**DESCRIPTION**
C	MOUNT ABOVE COUNTER
E	EMERGENCY POWER
F	FREEZER
ICE	ICE MACHINE
M	MICROWAVE
R	REFRIGERATOR
WC	WATER COOLER
WP	WEATHERPROOF

LINE LEGEND

SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	NEW CONSTRUCTION
	DEMOLISH

WIRE SIZING CHART 20 AMP BRANCH CIRCUITS

DISTANCE, 120V	MINIMUM WIRE SIZE
0 - 90 FEET	#12 AWG
90 - 230 FEET	#10 AWG
230 - 446 FEET	#8 AWG
DISTANCE, 277V	MINIMUM WIRE SIZE
0 - 209 FEET	#12 AWG
209 - 533 FEET	#10 AWG
533 - 1033 FEET	#8 AWG

LIGHTING SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	LIGHT FIXTURE (TYPICAL ALL DIMENSIONS)	$	LIGHT SWITCH, SINGLE POLE
	LIGHT FIXTURE (SHADING INDICATES EMERGENCY, TYPICAL ALL LIGHTING SYMBOLS)	$^X	LIGHT SWITCH, "X" INDICATES SWITCH TYPE
	LIGHT FIXTURE (TYPICAL ALL DIMENSIONS)	$^a	LIGHT SWITCH, LOWERCASE LETTER INDICATES SWITCHLEG
	LIGHT FIXTURE (TYPICAL ALL DIMENSIONS)	OS	OCCUPANCY SENSOR (CEILING MOUNTED)
	WALL MOUNTED LIGHT FIXTURE	VS	VACANCY SENSOR (CEILING MOUNTED)
	EMERGENCY LIGHTING UNIT		EXIT SIGN, SINGLE SIDED (ARROWS INDICATE CHEVRON DIRECTION)
	EXIT SIGN, DOUBLE SIDED (ARROWS INDICATE CHEVRON DIRECTION)		

POWER AND TELECOMMUNICATIONS SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
X	DUPLEX RECEPTACLE "X" INDICATES RECEPTACLE TYPE		COMMUNICATION OUTLET (ROUGH-IN ONLY)
X	GFCI DUPLEX RECEPTACLE "X" INDICATES RECEPTACLE TYPE	TV	TELEVISION OUTLET (WALL MOUNTED, ROUGH-IN ONLY)
X	QUADRUPLEX RECEPTACLE "X" INDICATES RECEPTACLE TYPE	CBB	COMMUNICATIONS BACKBOARD
X	GFCI QUADRUPLEX RECEPTACLE "X" INDICATES RECEPTACLE TYPE	T	THERMOSTAT (WALL MOUNTED, ROUGH-IN ONLY)
SPD	SURGE PROTECTION DEVICE	H	HUMIDISTAT (WALL MOUNTED, ROUGH-IN ONLY)
X	JUNCTION BOX (WALL MOUNTED) "X" INDICATES JUNCTION BOX TYPE	GAP	GENERATOR ANNUNCIATOR PANEL
X	JUNCTION BOX (CEILING MOUNTED) "X" INDICATES JUNCTION BOX TYPE		PANELBOARD - BRANCH, SURFACE MOUNTED
	HAND WAVE DOOR OPENER		PANELBOARD - BRANCH, FLUSH MOUNTED
	PANELBOARD - DISTRIBUTION, SURFACE MOUNTED		TRANSFORMER
	PANELBOARD - DISTRIBUTION, FLUSH MOUNTED		

SYSTEMS SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
SD	SMOKE DETECTOR (CEILING MOUNTED)	F	FIRE ALARM PULL STATION
SD	SMOKE DETECTOR (DUCT MOUNTED)	V	FIRE ALARM STROBE NOTIFICATION APPLIANCE (WALL MOUNTED)
X	CONTROL PANEL, "X" INDICATES TYPE	H	FIRE ALARM HORN/STROBE NOTIFICATION APPLIANCE (WALL MOUNTED)
E	ELECTRONIC DOOR STRIKE (ROUGH-IN ONLY)	V	FIRE ALARM STROBE NOTIFICATION APPLIANCE (CEILING MOUNTED)
D	DOOR POSITION SWITCH (ROUGH-IN ONLY)	H	FIRE ALARM HORN/STROBE NOTIFICATION APPLIANCE (CEILING MOUNTED)
CR	SECURITY CARD READER (ROUGH-IN ONLY)	PB	SECURITY PANIC BUTTON (ROUGH-IN ONLY)
DM	SECURITY DESK MASTER UNIT (ROUGH-IN ONLY)	C	SECURITY CAMERA (WALL MOUNTED) (ROUGH-IN ONLY)
LB	SECURITY LOCKDOWN BUTTON (ROUGH-IN ONLY)		

NURSE CALL SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
PC	NON-AUDIO BATHROOM PULLCORD STATION	DP	CODE BLUE STAFF ASSIST
NC	DOME LIGHT (CEILING MOUNTED)	EPS	ENHANCED PATIENT STATION
NC	ZONE LIGHT (CEILING MOUNTED)	CAB	HEADEND CABINET LOCATION
DY	DUTY STATION	NM	MASTER CONSOLE (WALL MOUNTED)

ELECTRICAL CODES & STANDARDS (WITH ALL SOUTH CAROLINA MODIFICATIONS)

CODE	DESCRIPTION
DPH REGULATIONS 61-16 (2024)	STATE OF SOUTH CAROLINA MINIMUM STANDARDS FOR LICENSING HOSPITALS AND INSTITUTIONAL GENERAL INFIRMARIES
IBC (2021)	INTERNATIONAL BUILDING CODE
IECC (2009)	INTERNATIONAL ENERGY CONSERVATION CODE
IFC (2021)	INTERNATIONAL FIRE CODE
NFPA 70 (2020)	NATIONAL ELECTRICAL CODE
NFPA 72 (2019)	NATIONAL FIRE ALARM AND SIGNALING CODE
NFPA 99 (2021)	HEALTH CARE FACILITIES CODE
NFPA 101 (2021)	LIFE SAFETY CODE

CONDUIT COLOR SCHEDULE

COMMUNICATION SYSTEM	BLACK
CRITICAL POWER	ORANGE
EQUIPMENT POWER	GREEN
FIRE ALARM SYSTEM	RED
HVAC CONTROLS	BLUE
LIFE SAFETY POWER	YELLOW
NORMAL POWER	SILVER
NURSE CALL SYSTEM	BLACK

FIRE RATED WALL LEGEND

- 1-HOUR FIRE BARRIER
- 2-HOUR FIRE BARRIER
- 1-HOUR SMOKE BARRIER

DOYLE ARCHITECTURE, LLC
315 MAIN STREET, SUITE 2B
CONWAY, SC 29526
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SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION DWG, INC. CONSULTING ENGINEERS No.C03649

SOUTH CAROLINA PROFESSIONAL ENGINEER Justin M. Lewis No. 42702 BRIANN M. PENROD
01/06/25

GRANDE DUNES A.S.C.
RENOVATION - PHASE III
Myrtle Beach, South Carolina
for: HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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REVISIONS:

TITLE:

ELECTRICAL NOTES & LEGENDS

SHEET:

E-001

DWG CONSULTING ENGINEERS EMPLOYEE OWNED
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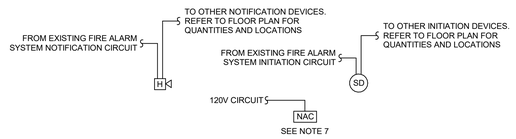
EQUIPMENT CONNECTION SCHEDULE

UNIT I.D.	VOLTS	# OF POLES	LOAD (VA)	BRANCH CIRCUIT WIRING	DISCONNECT / STARTER	NOTES
AIR HANDLING UNITS						
RTU-ASC	480 V	3	92241	(3) #1, #6G IN 1 1/4"C	INTEGRAL DISCONNECT	
FANS						
EF-210	120 V	1	24	(2) #12, #12G IN 3/4"C	TOGGLE SWITCH	1
EF-217	120 V	1	24	(2) #12, #12G IN 3/4"C	TOGGLE SWITCH	1
EF-GEN	120 V	1	576	(2) #12, #12G IN 3/4"C	30A/1P/4X NFDS	
EF-SPD	120 V	1	984	(2) #12, #12G IN 3/4"C	30A/1P/4X NFDS	
INSTRUMENT AIR COMPRESSOR						
IAC	480 V	3	10803	(3) #12, #12G IN 3/4"C	30A/3P/1 NFDS	
MANIFOLDS						
MA	120 V	1	100	(2) #12, #12G IN 3/4"C	30A/1P/1 NFDS	
NIT	120 V	1	100	(2) #12, #12G IN 3/4"C	30A/1P/1 NFDS	
O2	120 V	1	100	(2) #12, #12G IN 3/4"C	30A/1P/1 NFDS	
RAV						
RAV-1	120 V	1	100	(2) #12, #12G IN 3/4"C	INTEGRAL DISCONNECT	
RAV-2	120 V	1	100	(2) #12, #12G IN 3/4"C	INTEGRAL DISCONNECT	
RAV-3	120 V	1	100	(2) #12, #12G IN 3/4"C	INTEGRAL DISCONNECT	
RAV-4	120 V	1	100	(2) #12, #12G IN 3/4"C	INTEGRAL DISCONNECT	
RAV-5	120 V	1	100	(2) #12, #12G IN 3/4"C	INTEGRAL DISCONNECT	
STEAM GENERATOR						
SG-1	480 V	3	28005	(3) #6, #10G IN 3/4"C	60A/3P/1 NFDS	
TERMINAL UNITS						
VAV-1	480 V	3	6000	(3) #12, #12G IN 3/4"C	30A/15AF/3P/1 FDS	
VAV-2	480 V	3	5000	(3) #12, #12G IN 3/4"C	30A/15AF/3P/1 FDS	
VAV-3	480 V	3	3500	(3) #12, #12G IN 3/4"C	30A/15AF/3P/1 FDS	
VAV-4	480 V	3	3000	(3) #12, #12G IN 3/4"C	30A/15AF/3P/1 FDS	
VAV-5	480 V	3	26000	(3) #8, #10G IN 3/4"C	60A/3P/1 NFDS	
VAV-6	480 V	3	26000	(3) #8, #10G IN 3/4"C	60A/3P/1 NFDS	
VAV-7	480 V	3	26000	(3) #8, #10G IN 3/4"C	60A/3P/1 NFDS	
VAV-8	480 V	3	3500	(3) #12, #12G IN 3/4"C	30A/15AF/3P/1 FDS	
VACUUM PUMP						
VAC	480 V	3	14958	(3) #10, #10G IN 3/4"C	30A/3P/1 NFDS	
Z						
70						
128						

EQUIPMENT CONNECTION SCHEDULE NOTES:

1. FAN SHALL BE CONTROLLED VIA TOILET ROOM LIGHTING CONTROLS.

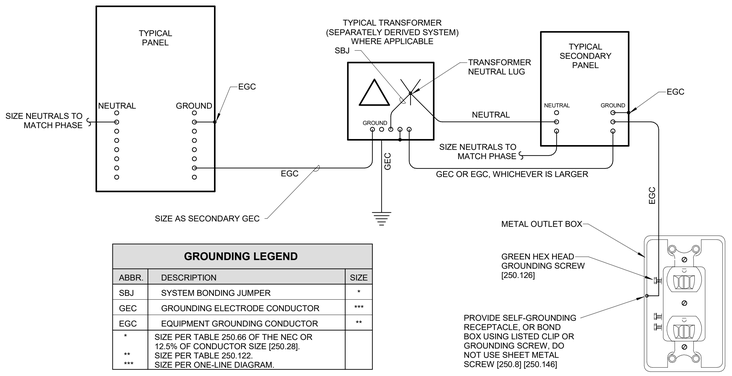


FIRE ALARM SYSTEM GENERAL NOTES

1. SEE FLOOR PLANS FOR QUANTITIES AND LOCATIONS OF DEVICES.
2. THE FOLLOWING SHALL OCCUR UPON ACTIVATION OF ANY INITIATING DEVICE:
   - A. SOUND ALL AUDIBLE DEVICES (CHIMES, HORNS, BELLS, ETC.) AND FLASH ALL VISUAL DEVICES (LIGHTS OR STROBES) THROUGHOUT THE ENTIRE FACILITY.
   - B. ALERT A CENTRAL STATION ALARM REPORTING SERVICE VIA DIGITAL COMMUNICATOR AND LEASED TELEPHONE LINES.
   - C. CLOSE ALL SMOKE DOORS THROUGHOUT THE FACILITY.
   - D. STOP AHU'S AND FANS.
   - E. INDICATE BY ZONE WITH AUDIO/VISUAL SIGNAL AT FACP AND ALL REMOTE ANNUNCIATORS.
3. INITIATING DEVICES SHALL BE SMOKE DETECTORS, DUCT-MOUNTED SMOKE DETECTORS, HEAT DETECTORS, MANUAL PULL STATIONS, AND SPRINKLER FLOW SWITCHES.
4. SYSTEM TROUBLE (OPEN WIRING, SHORTED WIRING, OR GROUND FAULTS) SHALL BE ANNUNCIATED BOTH AUDIBLY AND VISUALLY AT THE FACP AND AT ALL ANNUNCIATORS.
5. ALL SYSTEM WIRING SHALL BE CLASS A, NO T-TAPPING IS PERMITTED. CIRCUIT LOOP "SUPPLY AND RETURN" PATHS SHALL BE IN SEPARATE CONDUITS.
6. PROVIDE BATTERY AND VOLTAGE DROP CALCULATIONS THAT INCLUDE ALL NEW DEVICES AND APPLIANCES INSTALLED IN SYSTEM AND SUBMIT TO ENGINEER.
7. PROVIDE AN ADDITIONAL NAC PANEL IF REQUIRED TO POWER FIRE ALARM NOTIFICATION DEVICES. IF NAC IS REQUIRED, PROVIDE 120V POWER FROM 20A LIFE SAFETY CIRCUIT.
8. THE EXISTING FIRE ALARM SYSTEM IS SIMPLEX.
9. ALL FIRE ALARM CABLING SHALL BE IN RED EMT CONDUIT.
10. RECERTIFY FIRE ALARM SYSTEM WHEN COMPLETE.

1 E-002 — PARTIAL FIRE ALARM RISER DIAGRAM

NOT TO SCALE



GROUNDING LEGEND		
ABBR.	DESCRIPTION	SIZE
SBJ	SYSTEM BONDING JUMPER	*
GEC	GROUNDING ELECTRODE CONDUCTOR	***
EGC	EQUIPMENT GROUNDING CONDUCTOR	**
*	SIZE PER TABLE 250.66 OF THE NEC OR 12.5% OF CONDUCTOR SIZE [250.28].	
**	SIZE PER TABLE 250.122.	
***	SIZE PER ONE-LINE DIAGRAM.	

GROUNDING NOTES:

1. NUMBERS IN BRACKETS REFER TO SPECIFIC SECTIONS OF THE NATIONAL ELECTRICAL CODE.
2. ALL UNDERGROUND OR OTHERWISE INACCESSIBLE GROUND CONNECTIONS AND SPLICES SHALL BE EXOTHERMICALLY WELDED [250.68].
3. GROUND ELECTRODE FOR SEPARATELY DERIVED SYSTEMS SHALL BE THE NEAREST METAL WATER PIPE OR STRUCTURAL METAL. IF EITHER IS NOT AVAILABLE, PROVIDE GROUNDING CONDUCTOR BACK TO MAIN GROUND BUS AT SERVICE ENTRANCE.
4. PROVIDE A GROUND WIRE IN ALL CONDUITS.
5. EARTH SHALL NOT BE USED AS THE SOLE GROUND RETURN PATH FOR ANY EQUIPMENT POWERED UNDER THIS PROJECT. OTHERWISE OVERCURRENT PROTECTION MIGHT NOT WORK, OR IT MIGHT CAUSE POWER QUALITY PROBLEMS.
6. NO ALUMINUM SHALL BE USED FOR GROUNDING WORK WITHOUT THE SPECIFIC WRITTEN PERMISSION OF THE ENGINEER. EXCEPTION: ALUMINUM BUILDING STRUCTURAL MATERIALS SHALL BE BONDED WITH LISTED ALUMINUM EQUIPMENT WITH ALUMINUM TO COPPER CONNECTORS FOR ROUTING COPPER EGC'S.
7. ALL METAL ENCLOSURES AND RACEWAYS SHALL BE BONDED TO GROUND [250.86]. FOR CIRCUITS OVER 250V PROVIDE BOND PER [250.97], STANDARD LOCKNUTS ARE NOT ACCEPTABLE.
8. PROVIDE EGC CONNECTED TO ANY JUNCTION BOX WHERE SPLICE IS MADE [250.148].
9. PROVIDE BOND TO EXPOSED METAL ON ALL MOTORS, PUMPS, AND LIGHTING FIXTURES PER [250.112].

3 E-002 — GROUNDING DETAIL

NOT TO SCALE

LIGHT FIXTURE SCHEDULE

FIXTURE SPECIFICATIONS				LAMPING			ELECTRICAL			
TYPE	FIXTURE DESCRIPTION	MANUFACTURER	CAT. #	LAMP TYPE	TOTAL LUMENS	COLOR TEMP.	LOAD (VA)	VOLTS	FIXTURE MOUNTING	NOTES
A1	2'x4' TROFFER (4000L)	HE WILLIAMS	LT-24-40L/840-AF-DIM-UNV	LED	4000	4000 K	32	120 V	RECESSED	<varies>
A2	2'x4' TROFFER (5200L)	HE WILLIAMS	LT-24-52L/840-AF-DIM-UNV	LED	5200	4000 K	37	120 V	RECESSED	1
A3	2'x2' TROFFER (2700L)	HE WILLIAMS	LT-22-27L/840-AF-DIM-UNV	LED	2700	4000 K	21	120 V	RECESSED	1
A4	2'x2' TROFFER (3900L)	HE WILLIAMS	LT-22-39L/840-AF-DIM-UNV	LED	3900	4000 K	33	120 V	RECESSED	1
B1	2'x4' FLAT PANEL (3000L)	SIGNIFY	2FPZ-30L-840-4-DS-UNV-DIM	LED	3000	4000 K	23	120 V	RECESSED	1
B2	2'x4' FLAT PANEL (4800L)	SIGNIFY	2FPZ-48L-840-4-DS-UNV-DIM	LED	4800	4000 K	37	120 V	RECESSED	1
B4	2'x2' FLAT PANEL (3000L)	SIGNIFY	2FPZ-30L-840-2-DS-UNV-DIM	LED	3000	4000 K	23	120 V	RECESSED	1
B5	2'x2' FLAT PANEL (5400L)	SIGNIFY	2FPZ-54L-840-2-DS-UNV-DIM	LED	5400	4000 K	42	120 V	RECESSED	1
C1	COVE LIGHT	HE WILLIAMS	CX-C-4-L6-840-0-D	LED	2400	4000 K	20	120 V	SURFACE, COVE	1,5
D1	6" DOWNLIGHT	HE WILLIAMS	6DR-TL-L10/840-DIM-UNV-OW-OF-CS-NF1	LED	1000	4000 K	9	120 V	RECESSED	1
D2	4" DOWNLIGHT	HE WILLIAMS	4DR-TL-L10/840-DIM-UNV-OW-OF-CS-NF1	LED	1000	4000 K	9	120 V	RECESSED	1
D3	6" CLEAN ROOM DOWNLIGHT (7000L)	KIRLIN	LRC-06IPD-7000L-120-RBN-WFL-40K-SH	LED	7000	4000 K	79	120 V	RECESSED	1,2
D4	6" CLEAN ROOM DOWNLIGHT (3000L)	KIRLIN	LRC-06IPD-3000L-120-RBN-WFL-40K-SH	LED	3000	4000 K	28	120 V	RECESSED	1,2
D5	6" WALL WASH DOWNLIGHT	HE WILLIAMS	6DR-TL-L10/840-DIM-UNV-AWW-OF-CS-NF1	LED	1000	4000 K	9	120 V	RECESSED	1
D6	6" DOWNLIGHT (SHOWER)	HE WILLIAMS	6DR-TL-L10/840-DIM-UNV-SW-OF-CS-NF1	LED	1000	4000 K	9	120 V	RECESSED	1
EM1	EMERGENCY LIGHTING UNIT	EMERGI-LITE	EL-2RHL-AD	LED	1100	--	10	120 V	WALL MOUNTED	1,3
L1	4' UTILITY STRIP	HE WILLIAMS	75R-4-L50/840-DIM-UNV	LED	5000	4000 K	33	120 V	SUSPENDED/SURFACE	1
T1	LINEAR ACCENT TAPE LIGHT	DIODELED	D1-24V-VL2-40	LED	191 LUMEN/FT	4000 K	14	120 V	SURFACE, COVE	1,6,7
U1	ULTRASUITE SYSTEM	BY MECHANICAL	BY MECHANICAL	LED	--	5000 K	112	277 V	RECESSED	
U2	UNDERCABINET LIGHT	HE WILLIAMS	1SF-2-L12/840-DMA-WRS/120-DIM-120	LED	1200	4000 K	11	120 V	SURFACE	1
X1	SINGLE FACE EXIT SIGN	EMERGI-LITE	PAR6-AD	LED	--	--	6	120 V	RECESSED	1,4
X2	DOUBLE FACE EXIT SIGN	EMERGI-LITE	PAR6-AD	LED	--	--	6	120 V	RECESSED	1,4

LIGHT FIXTURE SCHEDULE NOTES:

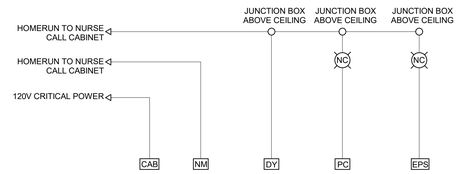
1. ACCEPTABLE ALTERNATE MANUFACTURERS: COOPER, LITHONIA, ILP, LUMINII, COLUMBIA, SIGNIFY.
2. PROVIDE CLEAN ROOM RATED FIXTURE WITH 1% DIMMING.
3. PROVIDE FIXTURE WITH INTEGRAL BATTERY BACKUP. PROVIDE AN EXTRA CONSTANT POWER CONDUCTOR CONNECTED TO THE BATTERY BACKUP FOR CHARGING. THIS CONDUCTOR MUST NOT BE CONTROLLED BY ANY LIGHTING SYSTEM OR HAVE POWER INTERRUPTED AT ANY TIME.
4. DO NOT PROVIDE WITH BATTERY BACKUP.
5. COORDINATE EXACT FIXTURE LENGTH AND DISTRIBUTION WITH FIELD CONDITIONS AND ADJUST AS REQUIRED.
6. FIXTURE SHALL BE ONE CONTINUOUS RUN THE ENTIRE LENGTH OF THE NURSE STATION. COORDINATE EXACT LENGTH WITH ARCHITECTURAL PLANS AND ELEVATIONS.
7. PROVIDE WITH DI-CHB-A1 CHANNEL AND D1-ODX-24V60W-J DIMMABLE DRIVER. PROVIDE ALL COMPONENTS NECCESSARY FOR A FUNCTIONAL SYSTEM.

LIGHT FIXTURE PLAN KEY

SHADING INDICATES EMERGENCY LIFE SAFETY FIXTURE POWERED BY GENERATOR.

A1 = UPPERCASE LETTER / NUMBER INDICATE FIXTURE TYPE
d = LOWERCASE LETTER INDICATES SWITCH IDENTIFICATION
NL = INDICATES NON-SWITCHED "NIGHT LIGHT"
A-2 = DESIGNATES PANEL NAME: CIRCUIT NUMBER

ALL EMERGENCY FIXTURES INDICATED ON PLAN ARE POWERED BY GENERATOR. "NL" FIXTURES SHALL HAVE ABSOLUTELY NO LIGHTING CONTROL AND SHALL BE OPERATIONAL AT ALL TIMES.



RAULAND RESPONDER 5 NURSE CALL NOTES:

1. ACCEPTABLE MANUFACTURER: RAULAND RESPONDER V.
2. TEST AND CERITFY NURSE CALL SYSTEM UPON COMPLETION OF CONSTRUCTION.
3. 3/4" MINIMUM CONDUIT SIZE. NURSE CALL VENDOR TO SUPPLY EXACT CONDUIT, BACKBOX, AND HOMERUN REQUIREMENT RISERS TO THE ELECTRICAL CONTRACTOR IN THE SUBMITTAL PACKAGE.
4. ALL WIRING SHALL BE INSTALLED IN A METAL CONDUIT SYSTEM ABOVE HARD CEILINGS AND IN WALLS, AND MAY BE ROUTED EXPOSED BY J-HOOKS ABOUT ACCESSIBLE CEILINGS.
5. ALL BATHROOM PULL CORD STATIONS SHALL BE LOCATED 6" WITIN FRONT OF TOILET; COORDINATE WITH GRAB BAR AND TOILET PAPER DISPENSER. ALL BUTTONS OF PULLS CORD SHALL BE WITH 4" AFF.
6. ALL DUTY STATIONS, PATIENT STATIONS AND BATHROOM PULLCOD STATIONS SHALL BE MOUNTED AT 48" AFF FROM TOP OF DEVICE.
7. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED RACEWAY AND BACKBOXES PER THE REQUIREMENTS OF THE NURSE CALL MANUFACTURER. ALL REQUIRED WIRING AND DEVICES SHALL BE PROVIDED AND INSTALLED BY THE NURSE CALL VENDOR.

2 E-002 — NURSE CALL RISER DIAGRAM

NOT TO SCALE

		CONTROL UNIT ANNUNCIATION						NOTIFICATION			CONTROL FUNCTIONS															
		ACTIVATE COMMON ALARM SIGNAL	ACTIVATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTIVATE AUDIBLE/VISUAL ALARM SIGNAL	ACTIVATE COMMON SUPERVISORY SIGNAL	ACTIVATE AUDIBLE SUPERVISORY SIGNAL	ACTIVATE COMMON TROUBLE SIGNAL	ACTIVATE AUDIBLE COMMON TROUBLE SIGNAL	ACTIVATE ALL EVACUATION SIGNALS TRANSMIT FIRE ALARM SIGNAL TO THIRD PARTY	TRANSMIT SUPERVISORY SIGNAL TO THIRD PARTY	TRANSMIT TROUBLE SIGNAL TO THIRD PARTY	SHUT DOWN AHU'S / EQUIP SERVING CORRIDORS, ASSEMBLY SPACES, AND MULTIPLE ROOMS. CLOSE FIRE / SMOKE DAMPERS ON FLOOR OR AREAS OF ALARM	RETAIN ELEVATOR ELECTRICITY TO KITCHEN COOKING APPLIANCE	SHUT OFF GAS ELECTRICITY TO KITCHEN COOKING APPLIANCE	RELEASE MAGNETIC DOOR HOLD OPEN DEVICES AND UNLOCK DOORS IN PATH OF EGRESS	SHUNT TRIP ELEVATOR POWER SUPPLY							
	SYSTEM INPUTS	A	B	C	D	E	F		G	H	I	J		K	L	M	N	O								
1	MANUAL PULL STATION	X	X						X	X				X			X		1							
2	DUCT SMOKE DETECTOR AND CARBON MONOXIDE DETECTOR	X	X						X	X				X			X		2							
3	SMOKE AND HEAT DETECTOR	X	X						X	X				X			X		3							
4	FIRE PUMP TROUBLE					X	X												4							
5	FIRE PUMP ALARM			X	X														5							
6	SPRINKLER WATERFLOW SWITCH	X	X						X	X				X			X		6							
7	SPRINKLER TAMPER SWITCH			X	X						X								7							
8	ELEVATOR LOBBY/SHAFT SMOKE DETECTORS	X	X						X	X				X	X		X		8							
9	ELEVATOR MACHINE ROOM SMOKE DETECTOR	X	X						X	X				X	X		X		9							
10	ELEVATOR SHAFT/MACHINE ROOM HEAT DETECTOR	X	X						X	X				X	X		X	X	10							
11	KITCHEN HOOD FIRE SUPPRESSION	X	X						X	X				X		X	X		11							
12	FACP PANELS AC POWER FAILURE					X	X					X							12							
13	FACP PANELS SYSTEM LOW BATTERY					X	X					X							13							
14	OPEN CIRCUIT					X	X					X							14							
15	GROUND FAULT					X	X					X							15							
16	NOTIFICATION APPLIANCE CIRCUIT SHORT					X	X					X							16							
		A	B	C	D	E	F		G	H	I	J		K	L	M	N	O								
FIRE ALARM SYSTEM SHALL BE A PUBLIC, PARTIAL, FULLY SUPERVISED, MANUAL, AUTOMATIC, SYSTEM																										
SINGLE AND MULTI STATION SMOKE ALARMS ARE NOT ALLOWED																										
PRIVATE FIRE ALARM SYSTEM IS NOT ALLOWED																										

4 E-002 — DPH FIRE ALARM MATRIX

NOT TO SCALE

DOYLE ARCHITECTURE, LLC
315 MAIN STREET, SUITE 2B
CONWAY, SC 29526
843.455.6879

SOUTH CAROLINA — DWG, INC. CONSULTING ENGINEERS No.C03649 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — Brian M. Penrod — No. 42702 — BRIANN M. PENROD

01/06/25

GRANDE DUNES A.S.C. RENOVATION - PHASE III

Myrtle Beach, South Carolina

for: HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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REVISIONS:

TITLE:

ELECTRICAL SCHEDULES & DETAILS

SHEET:

E-002

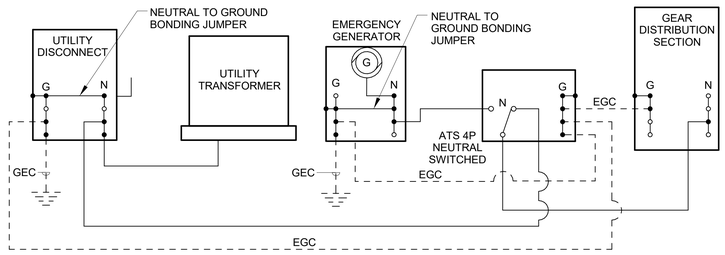
DWG CONSULTING ENGINEERS
EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

LEGEND:

GROUND CONDUCTOR

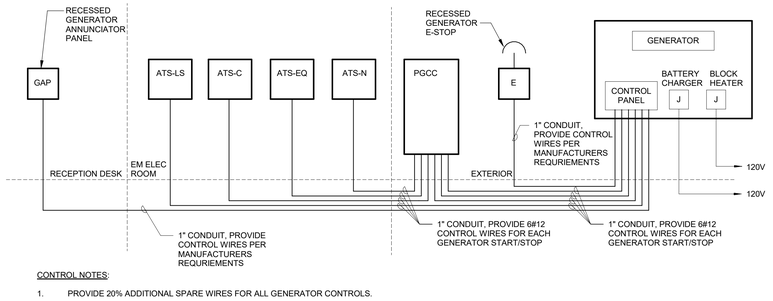
NEUTRAL CONDUCTOR

GROUND ELECTRODE CONDUCTOR



1 E-003 GENERATOR GROUNDING DETAIL 4 POLE

NOT TO SCALE

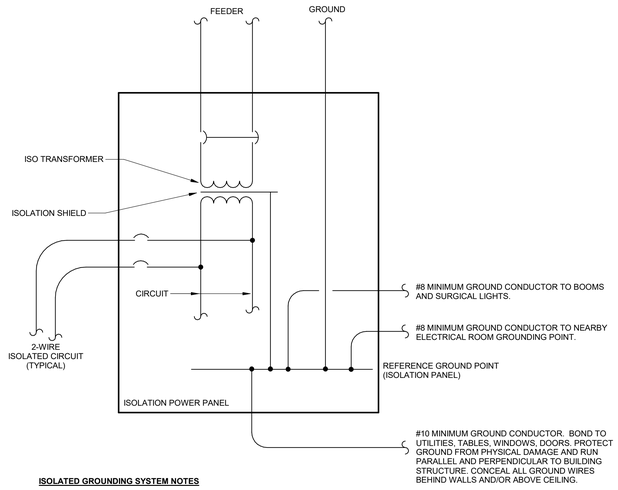


CONTROL NOTES:

1. PROVIDE 20% ADDITIONAL SPARE WIRES FOR ALL GENERATOR CONTROLS.

2 E-003 GENERATOR CONTROLS DETAIL

NOT TO SCALE



ISOLATED GROUNDING SYSTEM NOTES

1. ALL GROUND CONDUCTORS SHALL BE INSULATED, SUPPORTED WITH J-HOOKS, AND INSTALLED IN A MANNER SO AS TO BE PROTECTED FROM PHYSICAL DAMAGE.

3 E-003 ISOLATED SYSTEM GROUNDING DETAIL

NOT TO SCALE

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SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION DWG, INC. CONSULTING ENGINEERS No.C03649

SOUTH CAROLINA PROFESSIONAL ENGINEER BRIANN M. PENROD No. 42702

01/06/25

GRANDE DUNES A.S.C.
RENOVATION - PHASE III
Myrtle Beach, South Carolina
for:
HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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REVISIONS:

TITLE:

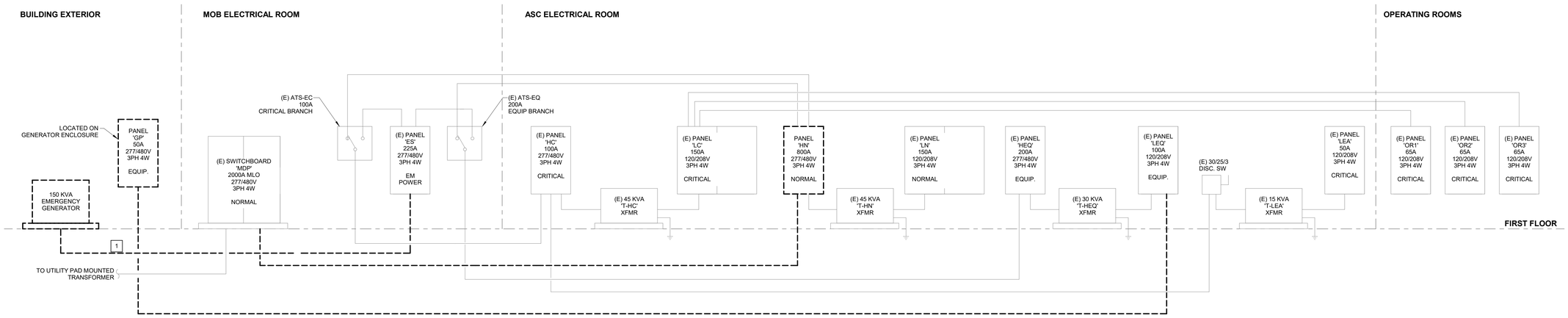
ELECTRICAL DETAILS

SHEET:

E-003

ELECTRICAL ONE-LINE DIAGRAM DEMOLITION KEYNOTES:

1. EXISTING CONDUIT TO REMAIN FOR REUSE DURING RENOVATION. REMOVE EXISTING WIRING.



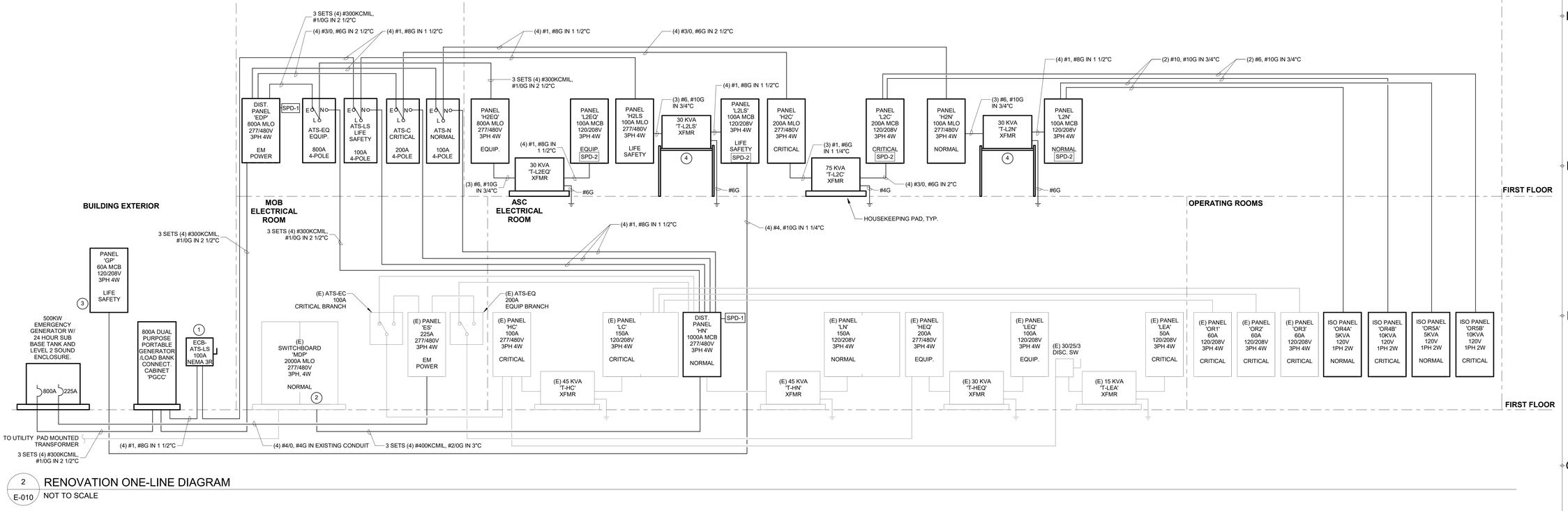
1 / E-010 DEMOLITION ONE-LINE DIAGRAM
NOT TO SCALE

ELECTRICAL ONE-LINE DIAGRAM RENOVATION KEYNOTES:

1. TAP OFF LIFE SAFETY FEEDER FROM PGCC. FEEDER SHALL BE LESS THAN 10' IN TOTAL LENGTH TO COMPLY WITH THE TAP RULE.
2. PROVIDE NEW 1000A 3 POLE BREAKER COMPABILTE WITH EXISTING SQUARE D QED SWITCHBOARD. UTILIZE SPACE MADE DURING DEMOLITION.
3. PROVIDE WITH GENERATOR AND LOCATE WITHIN NEW GENERATOR ENCLOSURE.
4. TRANSFORMER SHALL BE STACKED ON OTHER TRANSFORMER. PROVIDE STEEL RACK TO SUPPORT TRANSFORMER WEIGHT. REFER TO E-110 FOR ADDITIONAL INFORMATION.

SURGE PROTECTION DEVICE (SPD) SCHEDULE

SPD ID	LOCATION TYPE	SURGE CURRENT RATING	SURGE COUNTER	VISUAL & AUDIO ALARM	NETWORK MONITORING	ENCLOSURE
SPD-1	TYPE 1 & 2	200kA / MODE	YES	YES	NO	NEMA 1
SPD-2	TYPE 2	80kA / MODE	YES	YES	NO	INTEGRAL



2 / E-010 RENOVATION ONE-LINE DIAGRAM
NOT TO SCALE

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SOUTH CAROLINA DWG, INC. CONSULTING ENGINEERS CERTIFICATE OF AUTHORIZATION No.C03649

SOUTH CAROLINA PROFESSIONAL ENGINEER Brian M. Penrod No. 42702 BRIANN M. PENROD
01/06/25

GRANDE DUNES A.S.C. RENOVATION - PHASE III

Myrtle Beach, South Carolina

for: HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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REVISIONS:

TITLE:

ELECTRICAL ONE-LINE DIAGRAMS

SHEET:

E-010

DWG CONSULTING ENGINEERS
EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

PANELBOARD SCHEDULE

PANEL NAME: H2EQ
LOCATION: ELECTRICAL 132
SOURCE: ATS-EQ
MOUNTING: SURFACE
VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
ENCLOSURE: TYPE 1
A.I.C. RATING: 22,000
MAINS RATING: 800 A
MAINS TYPE: MAIN LUG ONLY

CKT NO.	CIRCUIT DESIGNATION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESIGNATION	CKT NO.
1				3600 VA / 4990 VA						2
3	INSTRUMENT AIR COMPRESSOR	20 A	3		3600 VA / 4990 VA		3	30 A	VACUUM PUMP	4
5						3600 VA / 4990 VA				6
7				3670 VA / 8670 VA						8
9	VAV-1,2	20 A	3		3670 VA / 8670 VA		3	40 A	VAV-5	10
11						3670 VA / 8670 VA				12
13				8670 VA / 3330 VA						14
15	VAV-6	40 A	3		8670 VA / 3330 VA		3	20 A	VAV-3,4,8	16
17						8670 VA / 3330 VA				18
19				8670 VA / 6650 VA						20
21	VAV-7	40 A	3		8670 VA / 6650 VA		3	40 A	WASHER/DISINFECTOR	22
23						8670 VA / 6650 VA				24
25				6650 VA / 15790 VA						26
27	WASHER/DISINFECTOR	40 A	3		6650 VA / 15790 VA		3	80 A	STEAM GENERATOR	28
29						6650 VA / 15790 VA				30
31				1940 VA / 15790 VA						32
33	STERILIZER	20 A	3		1940 VA / 15790 VA		3	80 A	STEAM GENERATOR	34
35						1940 VA / 15790 VA				36
37				1940 VA / 16070 VA						38
39	STERILIZER	20 A	3		1940 VA / 16070 VA		3	80 A	CART WASHER/DISINFECTOR	40
41						1940 VA / 16070 VA				42
43				6100 VA / 30750 VA						44
45	T-L2EQ	50 A	3		6560 VA / 30750 VA		3	125 A	RTU-ASC	46
47						6680 VA / 30750 VA				48
49				9340 VA / 0 VA						50
51	SG-1	45 A	3		9340 VA / 0 VA		3	20 A	SPARE	52
53						9340 VA / 0 VA				54
55	PREPARED SPACE	--	1	0 VA / 0 VA			1	--	PREPARED SPACE	56
57	PREPARED SPACE	--	1		0 VA / 0 VA		1	--	PREPARED SPACE	58
59	PREPARED SPACE	--	1			0 VA / 0 VA	1	--	PREPARED SPACE	60
61	PREPARED SPACE	--	1	0 VA / 0 VA			1	--	PREPARED SPACE	62
63	PREPARED SPACE	--	1		0 VA / 0 VA		1	--	PREPARED SPACE	64
65	PREPARED SPACE	--	1			0 VA / 0 VA	1	--	PREPARED SPACE	66
67	PREPARED SPACE	--	1	0 VA / 0 VA			1	--	PREPARED SPACE	68
69	PREPARED SPACE	--	1		0 VA / 0 VA		1	--	PREPARED SPACE	70
71	PREPARED SPACE	--	1			0 VA / 0 VA	1	--	PREPARED SPACE	72
73	PREPARED SPACE	--	1	0 VA / 0 VA			1	--	PREPARED SPACE	74
75	PREPARED SPACE	--	1		0 VA / 0 VA		1	--	PREPARED SPACE	76
77	PREPARED SPACE	--	1			0 VA / 0 VA	1	--	PREPARED SPACE	78
79	PREPARED SPACE	--	1	0 VA / 0 VA			1	--	PREPARED SPACE	80
81	PREPARED SPACE	--	1		0 VA / 0 VA		1	--	PREPARED SPACE	82
83	PREPARED SPACE	--	1			0 VA / 0 VA	1	--	PREPARED SPACE	84
	TOTAL PHASE LOAD:			152587 VA	153047 VA	153171 VA				
	TOTAL PHASE CURRENT:			551 A	553 A	553 A				

PANEL TOTALS
TOTAL CONNECTED LOAD: 458805 VA
TOTAL CONNECTED CURRENT: 552 A

PANELBOARD SCHEDULE

PANEL NAME: L2EQ
LOCATION: ELECTRICAL 132
SOURCE: T-L2EQ
MOUNTING: SURFACE
VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
ENCLOSURE: TYPE 1
A.I.C. RATING: 10,000
MAINS RATING: 100 A
MAINS TYPE: MAIN CIRCUIT BREAKER

CKT NO.	CIRCUIT DESIGNATION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESIGNATION	CKT NO.
1	RCPT - PROCESSING SINK	20 A	1	360 VA / 360 VA			1	20 A	RCPT - PROCESSING SINK	2
3	RCPT - CHEMISTRY DOSING SYSTEM	20 A	1		120 VA / 120 VA		1	20 A	RCPT - CHEMISTRY DOSING SYSTEM	4
5	RCPT - INNOWAVE ULTRA	20 A	1			1200 VA / 1200 VA	1	20 A	RCPT - INNOWAVE ULTRA	6
7	RCPT - DRYING CABINET	20 A	1	1920 VA / 1800 VA			1	20 A	RCPT - PREP TABLE	8
9	RCPT - PREP TABLE	20 A	1		1800 VA / 1800 VA		1	20 A	RCPT - PREP TABLE	10
11	RCPT - STERILIZATION SYSTEM	20 A	1			1600 VA / 1200 VA	1	20 A	RCPT - STEAM GEN CONTROLS	12
13	RCPT - STEAM GEN CONTROLS	20 A	1	1200 VA / 100 VA			1	20 A	MEDICAL AIR MANIFOLD	14
15	OXYGEN MANIFOLD	20 A	1		100 VA / 100 VA		1	20 A	NITROGEN MANIFOLD	16
17	EF-SPD	20 A	1			980 VA / 500 VA	1	20 A	RAV-1,2,3,4,5	18
19	RCPT - ENDOSCOPE FLUSHING AID	20 A	1	180 VA / 180 VA			1	20 A	RCPT - VIDEO BORESCOPE	20
21	AUTO PASS THROUGH WINDOW	20 A	1		1800 VA / 720 VA		1	20 A	RCPT - ENDO STORAGE CABINET	22
23	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA / 0 VA			1	20 A	SPARE	26
27	SPARE	20 A	1		0 VA / 0 VA		1	20 A	SPARE	28
29	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA / 0 VA			1	20 A	SPARE	32
33	SPARE	20 A	1		0 VA / 0 VA		1	20 A	SPARE	34
35	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA / 0 VA						38
39	SPARE	20 A	1		0 VA / 0 VA		3	30 A	SPD	40
41	SPARE	20 A	1			0 VA / 0 VA				42
	TOTAL PHASE LOAD:			6100 VA	6560 VA	6684 VA				
	TOTAL PHASE CURRENT:			51 A	55 A	56 A				

PANEL TOTALS
TOTAL CONNECTED LOAD: 19344 VA
TOTAL CONNECTED CURRENT: 54 A

PANELBOARD SCHEDULE

PANEL NAME: L2C
LOCATION: ELECTRICAL 132
SOURCE: T-L2C
MOUNTING: SURFACE
VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
ENCLOSURE: TYPE 1
A.I.C. RATING: 10,000
MAINS RATING: 200 A
MAINS TYPE: MAIN CIRCUIT BREAKER

CKT NO.	CIRCUIT DESIGNATION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESIGNATION	CKT NO.
1	SPD AUTO DOORS	20 A	1	200 VA / 200 VA			1	20 A	OR AUTO DOORS	2
3	RCPT - ICE MACHINE	20 A	1		360 VA / 720 VA		1	20 A	RCPT - PROCEDURE	4
5	RCPT - PREP/RECOVERY	20 A	1			1440 VA / 540 VA	1	20 A	RCPT - EQUIP ALCOVE/STORAGE	6
7	RCPT - ICE MACHINE	20 A	1	360 VA / 1440 VA			1	20 A	RCPT - PREP/RECOVERY	8
9	PROCEDURE SURGICAL LIGHT	20 A	1		1200 VA / 1440 VA		1	20 A	RCPT - PREP/RECOVERY	10
11	RCPT - NURSE WORK	20 A	1			1260 VA / 540 VA	1	20 A	RCPT - MEDS	12
13	WIREMOLD EQUIP. STORAGE	20 A	1	720 VA / 540 VA			1	20 A	RCPT - PROCEDURE	14
15	RCPT - NURSE WORK	20 A	1		1080 VA / 1080 VA		1	20 A	RCPT - NURSE WORK	16
17	BOOM LIGHT	20 A	1			800 VA / 800 VA	1	20 A	BOOM LIGHT	18
19	ISO POWER PANEL OR4B	40 A	2	3720 VA / 1060 VA			1	20 A	LIGHTING - STERILE CORR	20
21					2520 VA / 810 VA		1	20 A	LIGHTING - OR4	22
23	ISO POWER PANEL OR5B	40 A	2			3720 VA / 810 VA	1	20 A	LIGHTING - OR5	24
25				2520 VA / 1160 VA			1	20 A	LIGHTING - SPD/PREP/RECOVERY	26
27	WIREMOLD EQUIP. STORAGE	20 A	1		900 VA / 100 VA		1	20 A	NURSE CALL	28
29	WIREMOLD EQUIP. STORAGE	20 A	1			900 VA / 1440 VA	1	20 A	RCPT - PREP/RECOVERY	30
31	RCPT - PREP/RECOVERY	20 A	1	1440 VA / 1440 VA			1	20 A	RCPT - REFRIGERATOR NURSE*	32
33	RCPT - NURSE WORK	20 A	1		900 VA / 0 VA		1	20 A	SPARE	34
35	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA / 0 VA			1	20 A	SPARE	38
39	SPARE	20 A	1		0 VA / 0 VA		1	20 A	SPARE	40
41	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	42
43	SPARE	20 A	1	0 VA / 0 VA			1	20 A	SPARE	44
45	SPARE	20 A	1		0 VA / 0 VA		1	20 A	SPARE	46
47	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	48
49	SPARE	20 A	1	0 VA / 0 VA			1	20 A	SPARE	50
51	SPARE	20 A	1		0 VA / 0 VA					52
53	SPARE	20 A	1			0 VA / 0 VA	3	30 A	SPD	54
55	SPARE	20 A	1	0 VA / 0 VA						56
	TOTAL PHASE LOAD:			14800 VA	11109 VA	12249 VA				
	TOTAL PHASE CURRENT:			125 A	93 A	104 A				

PANEL TOTALS
TOTAL CONNECTED LOAD: 38158 VA
TOTAL CONNECTED CURRENT: 106 A

PANELBOARD SCHEDULE

PANEL NAME: H2N
LOCATION: ELECTRICAL 132
SOURCE: ATS-N
MOUNTING: SURFACE
VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
ENCLOSURE: TYPE 1
A.I.C. RATING: 22,000
MAINS RATING: 100 A
MAINS TYPE: MAIN LUG ONLY

CKT NO.	CIRCUIT DESIGNATION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESIGNATION	CKT NO.
1				9670 VA / 0 VA			1	--	PREPARED SPACE	2
3	T-L2N	50 A	3		8550 VA / 0 VA		1	--	PREPARED SPACE	4
5						11040 VA / 0 VA	1	--	PREPARED SPACE	6
7	PREPARED SPACE	--	1	0 VA / 0 VA			1	--	PREPARED SPACE	8
9	PREPARED SPACE	--	1		0 VA / 0 VA		1	--	PREPARED SPACE	10
11	PREPARED SPACE	--	1			0 VA / 0 VA	1	--	PREPARED SPACE	12
13	PREPARED SPACE	--	1	0 VA / 0 VA			1	--	PREPARED SPACE	14
15	PREPARED SPACE	--	1		0 VA / 0 VA		1	--	PREPARED SPACE	16
17	PREPARED SPACE	--	1			0 VA / 0 VA	1	--	PREPARED SPACE	18
	TOTAL PHASE LOAD:			9670 VA	8554 VA	11040 VA				
	TOTAL PHASE CURRENT:			36 A	31 A	40 A				

PANEL TOTALS
TOTAL CONNECTED LOAD: 29263 VA
TOTAL CONNECTED CURRENT: 35 A

PANELBOARD SCHEDULE

PANEL NAME: H2LS
LOCATION: ELECTRICAL 132
SOURCE: ATS-LS
MOUNTING: SURFACE
VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
ENCLOSURE: TYPE 1
A.I.C. RATING: 22,000
MAINS RATING: 100 A
MAINS TYPE: MAIN LUG ONLY

CKT NO.	CIRCUIT DESIGNATION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESIGNATION	CKT NO.
1				600 VA / 0 VA			1	--	PREPARED SPACE	2
3	T-L2LS	50 A	3		1060 VA / 0 VA		1	--	PREPARED SPACE	4
5						100 VA / 0 VA	1	--	PREPARED SPACE	6
7	PREPARED SPACE	--	1	0 VA / 0 VA			1	--	PREPARED SPACE	8
9	PREPARED SPACE	--	1		0 VA / 0 VA		1	--	PREPARED SPACE	10
11	PREPARED SPACE	--	1			0 VA / 0 VA	1	--	PREPARED SPACE	12
13	PREPARED SPACE	--	1	0 VA / 0 VA			1	--	PREPARED SPACE	14
15	PREPARED SPACE	--	1		0 VA / 0 VA		1	--	PREPARED SPACE	16
17	PREPARED SPACE	--	1			0 VA / 0 VA	1	--	PREPARED SPACE	18
	TOTAL PHASE LOAD:			600 VA	1062 VA	104 VA				
	TOTAL PHASE CURRENT:			2 A	4 A	0 A				

PANEL TOTALS
TOTAL CONNECTED LOAD: 1766 VA
TOTAL CONNECTED CURRENT: 2 A

PANELBOARD SCHEDULE

PANEL NAME: H2C
LOCATION: ELECTRICAL 132
SOURCE: ATS-C
MOUNTING: SURFACE
VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
ENCLOSURE: TYPE 1
A.I.C. RATING: 22,000
MAINS RATING: 200 A
MAINS TYPE: MAIN LUG ONLY

CKT NO.	CIRCUIT DESIGNATION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESIGNATION	CKT NO.
1				14800 VA / 1790 VA			1	20 A	ULTRASUITE OR#4	2
3	T-L2C	125 A	3		11110 VA / 1790 VA		1	20 A	ULTRASUITE OR#5	4
5						12250 VA / 0 VA	1	--	PREPARED SPACE	6
7	PREPARED SPACE	--	1	0 VA / 0 VA			1	--	PREPARED SPACE	8
9	PREPARED SPACE	--	1		0 VA / 0 VA		1	--	PREPARED SPACE	10
11	PREPARED SPACE	--	1			0 VA / 0 VA	1	--	PREPARED SPACE	12
13	PREPARED SPACE	--	1	0 VA / 0 VA			1	--	PREPARED SPACE	14
15	PREPARED SPACE	--	1		0 VA / 0 VA		1	--	PREPARED SPACE	16
17	PREPARED SPACE	--	1			0 VA / 0 VA	1	--	PREPARED SPACE	18
	TOTAL PHASE LOAD:			16592 VA	12901 VA	12249 VA				
	TOTAL PHASE CURRENT:			60 A	47 A	44 A				

PANEL TOTALS
TOTAL CONNECTED LOAD: 41742 VA
TOTAL CONNECTED CURRENT: 50 A

PANELBOARD SCHEDULE

PANEL NAME: L2N
LOCATION: ELECTRICAL 132
SOURCE: T-L2N
MOUNTING: SURFACE
VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
ENCLOSURE: TYPE 1
A.I.C. RATING: 10,000
MAINS RATING: 100 A
MAINS TYPE: MAIN CIRCUIT BREAKER

CKT NO.	CIRCUIT DESIGNATION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESIGNATION	CKT NO.
1	RCPT - SPD	20 A	1	720 VA / 1440 VA			1	20 A	RCPT - PREP/RECOVERY	2
3	RCPT - STORAGE/CORR	20 A	1		720 VA / 1080 VA		1	20 A	RCPT - PREP/RECOVERY	4
5	RPCT - STERILE CORR	20 A	1			1260 VA / 1080 VA	1	20 A	RCPT - PREP/RECOVERY	6
7	RCPT - SCOPE PROCESSING	20 A	1	720 VA / 540 VA			1	20 A	RCPT - SOILED/CORR	8
9	RCPT - ELEC ROOM	20 A	1		360 VA / 720 VA		1	20 A	RCPT - PROCEDURE	10
11	RCPT - RISK MANAGER OFFICE	20 A	1			1080 VA / 720 VA	1	20 A	RCPT - PROCEDURE	12
13	RCPT - DICTATION/NURSE WORK	20 A	1	1080 VA / 580 VA			1	20 A	EF-GEN	14
15	RCPT - STAFF BREAK	20 A	1		1260 VA / 900 VA		1	20 A	RCPT - LOCKERS	16
17	RCPT - REFRIGERATOR KITCHEN*	20 A	1			1440 VA / 1620 VA	1	20 A	RCPT - PAT 1,2,3	18
19	RCPT - REFRIGERATOR KITCHEN *	20 A	1	1440 VA / 650 VA			1	20 A	LIGHTING - PREP/RECOVERY	20
21	RCPT - EDUCATION	20 A	1		1440 VA / 810 VA		1	20 A	LIGHTING - SECOND FLOOR/EF	22
23	RCPT - ROOF	20 A	1			360 VA / 1680 VA	1	20 A	RCPT - BLANKET WARMER	24
25	LIGHTING - LOCKERS	20 A	1	600 VA / 100 VA			1	20 A	GARBAGE DISPOSAL	26
27	ISO POWER PANEL OR4A	30 A	2		360 VA / 540 VA		1	20 A	RCPT - KITCHEN	28
29						360 VA / 1440 VA	1	20 A	RCPT - MICROWAVE KITCHEN	30
31	ISO POWER PANEL OR5A	30 A	2	360 VA / 1440 VA			1	20 A	RCPT - MICROWAVE KITCHEN	32
33					360 VA / 0 VA		1	20 A	SPARE	34
35	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA / 0 VA						38
39	SPARE	20 A	1		0 VA / 0 VA		3	30 A	SPD	40
41	SPARE	20 A	1			0 VA / 0 VA				42
	TOTAL PHASE LOAD:			9670 VA	8554 VA	11040 VA				
	TOTAL PHASE CURRENT:			82 A	71 A	93 A				

PANEL TOTALS
TOTAL CONNECTED LOAD: 29263 VA
TOTAL CONNECTED CURRENT: 81 A

PANELBOARD SCHEDULE

PANEL NAME: L2LS
LOCATION: ELECTRICAL 132
SOURCE: T-L2LS
MOUNTING: SURFACE
VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
ENCLOSURE: TYPE 1
A.I.C. RATING: 10,000
MAINS RATING: 100 A
MAINS TYPE: MAIN CIRCUIT BREAKER

CKT NO.	CIRCUIT DESIGNATION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESIGNATION	CKT NO.
1				200 VA / 300 VA			1	20 A	MED GAS ALARM PANELS	2
3	PANEL GP	60 A	3		0 VA / 1060 VA		1	20 A	LIGHTING - FIRST FLOOR	4
5						0 VA / 100 VA	1	20 A	LIGHTING - SECOND FLOOR	6
7	FACP ***	20 A	1	100 VA / 0 VA			1	20 A	SPARE	8
9	SPARE	20 A	1		0 VA / 0 VA		1	20 A	SPARE	10
11	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA / 0 VA			1	20 A	SPARE	14
15	SPARE	20 A	1		0 VA / 0 VA		1	20 A	SPARE	16
17	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA / 0 VA			1	20 A	SPARE	20
21	SPARE	20 A	1		0 VA / 0 VA		1	20 A	SPARE	22
23	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA / 0 VA			1	20 A	SPARE	26
27	SPARE	20 A	1		0 VA / 0 VA		1	20 A	SPARE	28
29	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA / 0 VA			1	20 A	SPARE	32
33	SPARE	20 A	1		0 VA / 0 VA		1	20 A	SPARE	34
35	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA / 0 VA						38
39	SPARE	20 A	1		0 VA / 0 VA		3	30 A	SPD	40
41	SPARE	20 A	1			0 VA / 0 VA				42
	TOTAL PHASE LOAD:			600 VA	1062 VA	104 VA				
	TOTAL PHASE CURRENT:			6 A	9 A	1 A				

PANEL TOTALS
TOTAL CONNECTED LOAD: 1766 VA
TOTAL CONNECTED CURRENT: 5 A

DISTRIBUTION PANEL SCHEDULE

NAME: HN
LOCATION: ASC ELECTRICAL 130
SOURCE: (E) MSB
MOUNTING: SURFACE
VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
ENCLOSURE: TYPE 1
A.I.C. RATING: 22,000
MAINS RATING: 1000 A
MAINS TYPE: MAIN CIRCUIT BREAKER

CKT NO.	CIRCUIT DESCRIPTION	POLES	TRIP RATING	Load
1	ATS-LS	3	100 A	1766
2	ATS-C	3	100 A	41742
3	ATS-N	3	100 A	29263
4	ATS-EQ	3	800 A	458805
5	EXISTING 15A LOAD **	3	15 A	0
6	EXISTING 20A LOAD **	3	20 A	0
7	EXISTING 20A LOAD **	3	20 A	0
8	EXISTING BOOSTER PUMP **	3	30 A	0
9	EXISTING BOILER **	3	40 A	0
10	EXISTING T-HN TRANSFORMER **	3	70 A	0
11	EXISTING GLYCOL **	3	100 A	0
12	EXISTING CHILLER **	3	300 A	0
13	EXISTING 15A LOAD **	3	15 A	0
14	EXISTING HWP CIR #6 **	3	20 A	0
15	EXISTING HWP CIR #7 **	3	20 A	0
16	EXISTING CHILLER PUMP 1 **	3	30 A	0
17	EXISTING CHILLER PUMP 2 **	3	30 A	0
18	EXISTING TRANSFER SWITCH **	3	100 A	0
19	EXISTING RTU-2 **	3	40 A	0
20	EXISTING TRANSFER SWITCH **	3	175 A	0
				531577
				639 A

DISTRIBUTION PANEL SCHEDULE

NAME: EDP
LOCATION: EMERGENCY ELECTRICAL 134
SOURCE: GENERATOR
MOUNTING: SURFACE
VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
ENCLOSURE: TYPE 1
A.I.C. RATING: 22,000
MAINS RATING: 800 A
MAINS TYPE: MAIN LUG ONLY

CKT NO.	CIRCUIT DESCRIPTION	POLES	TRIP RATING	Load
1	ATS-LS	3	100 A	1766
2	ATS-C	3	100 A	41742
3	ATS-N	3	100 A	29263
4	ATS-EQ	3	800 A	458805
				531576
				639 A

PANELBOARD SCHEDULE

PANEL NAME: GP
LOCATION: GENERATOR
SOURCE: L2LS
MOUNTING: SURFACE
VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
ENCLOSURE: TYPE 1
A.I.C. RATING: 10,000
MAINS RATING: 60 A
MAINS TYPE: MAIN CIRCUIT BREAKER

CKT NO.	CIRCUIT DESIGNATION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESIGNATION	CKT NO.
1	BLOCK HEATER	20 A	1	100 VA / 100 VA			1	20 A	BATTERY CHARGER	2
3	SPARE	20 A	1		0 VA / 0 VA		1	20 A	SPARE	4
5	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	6
7	SPARE	20 A	1	0 VA / 0 VA			1	20 A	SPARE	8
9	SPARE	20 A	1		0 VA / 0 VA		1	20 A	SPARE	10
11	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA / 0 VA			1	20 A	SPARE	14
15	SPARE	20 A	1		0 VA / 0 VA		1	20 A	SPARE	16
17	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	18
	TOTAL PHASE LOAD:			200 VA	0 VA	0 VA				
	TOTAL PHASE CURRENT:			2 A	0 A	0 A				

PANEL TOTALS
TOTAL CONNECTED LOAD: 200 VA
TOTAL CONNECTED CURRENT: 1 A

SERVICE DEMAND CALCULATION

	KVA	AMPS @480V 3PH
PEAK DEMAND FROM UTILITY X 125%	339 KVA	408 A
TOTAL ADDITIONAL LOAD	532 KVA	639 A
TOTAL SERVICE DEMAND ON MDP	871 KVA	1047 A

PANEL SCHEDULE KEY

H2EQ	H2N	HN
	H2LS	EDP
	H2C	
L2EQ	L2N	GP
L2C	L2LS	

PANEL SCHEDULE NOTES

* PROVIDE GFCI TYPE CIRCUIT BREAKER.
** CONNECT EXISTING FEEDER SERVING EXISTING LOAD TO NEW BREAKER. SPLICE CONDCUTORS IF ADDITIONAL FEEDER LENGTH IS REQUIRED DUE TO PANEL REPLACEMENT.
*** PROVIDE RED LOCKOUT CIRCUIT BREAKER THAT PERMANENTLY IDENTIFIES BREAKER AS "FIRE ALARM SYSTEM".

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GRANDE DUNES A.S.C.
RENOVATION - PHASE III
Myrtle Beach, South Carolina
for:
HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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REVISIONS:

TITLE:

ELECTRICAL PANEL SCHEDULES

SHEET:

E-050

ISOLATED POWER PANELBOARD SCHEDULE

NAME: OR4A
LOCATION: OR #4 152
SOURCE: L2N
MOUNTING: Recessed
VOLTS: 120/208 Single
PHASES: 1
WIRES: 2
ENCLOSURE: Type 1
A.I.C. RATING: 10,000
MAINS RATING: 30 A
MAINS TYPE: MAIN CIRCUIT BREAKER

CKT NO.	CIRCUIT DESCRIPTION	POLES	TRIP RATING	B	C
1	RCPT - OR #4	1	20 A	180	
2	RCPT - OR #4	1	20 A		180
3	RCPT - OR #4	1	20 A	180	
4	RCPT - OR #4	1	20 A		180
5	SPARE	1	20 A	0	
6	SPARE	1	20 A		0
7	SPARE	1	20 A	0	
8	SPARE	1	20 A		0
			TOTAL CONNECTED PHASE LOAD:	360	360
			TOTAL PHASE AMPS:	3 A	3 A
			TOTAL CONNECTED LOAD:	720	
			TOTAL AMPS:	3 A	

ISOLATED POWER PANELBOARD SCHEDULE

NAME: OR5A
LOCATION: OR #5 154
SOURCE: L2N
MOUNTING: Recessed
VOLTS: 120/208 Single
PHASES: 1
WIRES: 2
ENCLOSURE: Type 1
A.I.C. RATING: 10,000
MAINS RATING: 30 A
MAINS TYPE: MAIN CIRCUIT BREAKER

CKT NO.	CIRCUIT DESCRIPTION	POLES	TRIP RATING	A	B
1	RCPT - OR #5	1	20 A	180	
2	RCPT - OR #5	1	20 A		180
3	RCPT - OR #5	1	20 A	180	
4	RCPT - OR #5	1	20 A		180
5	SPARE	1	20 A	0	
6	SPARE	1	20 A		0
7	SPARE	1	20 A	0	
8	SPARE	1	20 A		0
			TOTAL CONNECTED PHASE LOAD:	360	360
			TOTAL PHASE AMPS:	3 A	3 A
			TOTAL CONNECTED LOAD:	720	
			TOTAL AMPS:	3 A	

ISOLATED POWER PANELBOARD SCHEDULE

NAME: OR4B
LOCATION: OR #4 152
SOURCE: L2C
MOUNTING: Recessed
VOLTS: 120/208 Single
PHASES: 1
WIRES: 2
ENCLOSURE: Type 1
A.I.C. RATING: 10,000
MAINS RATING: 40 A
MAINS TYPE: MAIN CIRCUIT BREAKER

CKT NO.	CIRCUIT DESCRIPTION	POLES	TRIP RATING	A	B
1	RCPT - OR #4	1	20 A	720	
2	RCPT - OR #4	1	20 A		720
3	RCPT - OR #4	1	20 A	720	
4	RCPT - OR #4	1	20 A		720
5	ANESTHESIA BOOM	1	20 A	360	
6	ANESTHESIA BOOM	1	20 A		360
7	EMS MOTOR ARM BRAKES	1	20 A	1200	
8	ANESTHESIA BOOM	1	20 A		360
9	ANESTHESIA BOOM	1	20 A	360	
10	ANESTHESIA BOOM	1	20 A		360
11	ANESTHESIA BOOM	1	20 A	360	
12	SPARE	1	20 A		0
13	SPARE	1	20 A	0	
14	SPARE	1	20 A		0
15	SPARE	1	20 A	0	
16	SPARE	1	20 A		0
			TOTAL CONNECTED PHASE LOAD:	3720	2520
			TOTAL PHASE AMPS:	34 A	24 A
			TOTAL CONNECTED LOAD:	6240	
			TOTAL AMPS:	30 A	

ISOLATED POWER PANELBOARD SCHEDULE

NAME: OR5B
LOCATION: OR #5 154
SOURCE: L2C
MOUNTING: Recessed
VOLTS: 120/208 Single
PHASES: 1
WIRES: 2
ENCLOSURE: Type 1
A.I.C. RATING: 10,000
MAINS RATING: 40 A
MAINS TYPE: MAIN CIRCUIT BREAKER

CKT NO.	CIRCUIT DESCRIPTION	POLES	TRIP RATING	A	B
1	RCPT - OR #5	1	20 A	720	
2	RCPT - OR #5	1	20 A		720
3	RCPT - OR #5	1	20 A	720	
4	RCPT - OR #5	1	20 A		720
5	ANESTHESIA BOOM	1	20 A	360	
6	ANESTHESIA BOOM	1	20 A		360
7	EMS MOTOR ARM BRAKES	1	20 A	1200	
8	ANESTHESIA BOOM	1	20 A		360
9	ANESTHESIA BOOM	1	20 A	360	
10	ANESTHESIA BOOM	1	20 A		360
11	ANESTHESIA BOOM	1	20 A	360	
12	SPARE	1	20 A		0
13	SPARE	1	20 A	0	
14	SPARE	1	20 A		0
15	SPARE	1	20 A	0	
16	SPARE	1	20 A		0
			TOTAL CONNECTED PHASE LOAD:	3720	2520
			TOTAL PHASE AMPS:	34 A	24 A
			TOTAL CONNECTED LOAD:	6240	
			TOTAL AMPS:	30 A	

PANEL SCHEDULE KEY		
		OR4A
		OR5A
		OR4B
		OR5B

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for:
HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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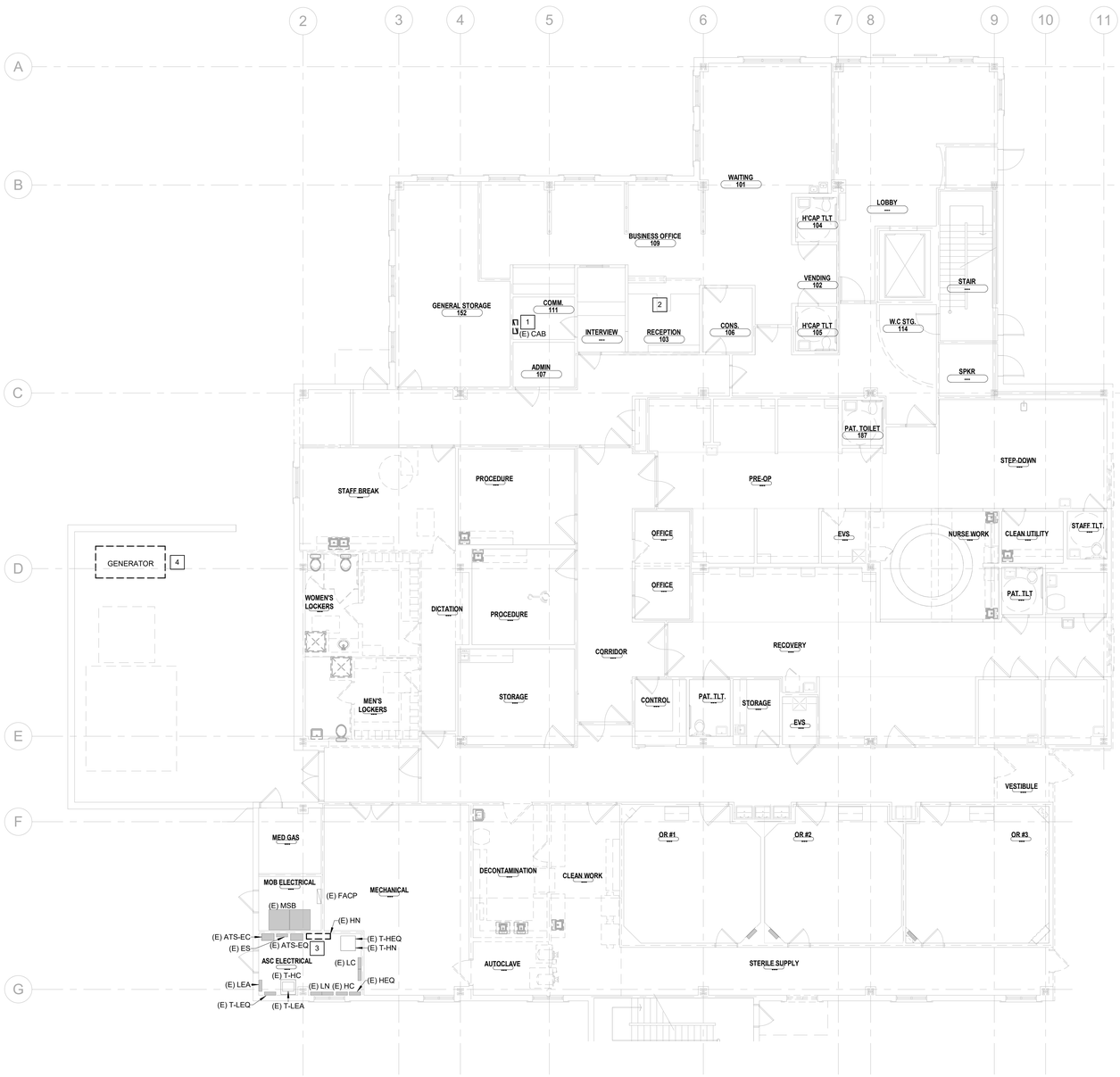
REVISIONS:

TITLE:

ELECTRICAL
PANEL
SCHEDULES

SHEET:

E-051



1 ED-100 OVERALL FIRST FLOOR ELECTRICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

DEMOLITION KEYNOTES

1. DEMOLISH EXISTING NURSE CALL SYSTEM IN ITS ENTIRETY.
2. DEMOLISH EXISTING GENERATOR ANNUNICATOR PANEL.
3. DEMOLISH EXISTING PANEL HN. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
4. DEMOLISH EXISTING GENERATOR. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.

GENERAL NOTES

1. CONTRACTOR SHALL MAINTAIN ELECTRICAL SERVICE TO AREAS OUTSIDE OF CONSTRUCTION AREA.
2. REMOVE, RELOCATE AND EXTEND EXISITNG INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
3. ALL CIRCUITS SHALL BE RETAINED FOR REUSE, UNLESS NOTED OTHERWISE.

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REVISIONS:

TITLE:

OVERALL FIRST FLOOR ELECTRICAL DEMOLITION PLAN

SHEET: ED-100

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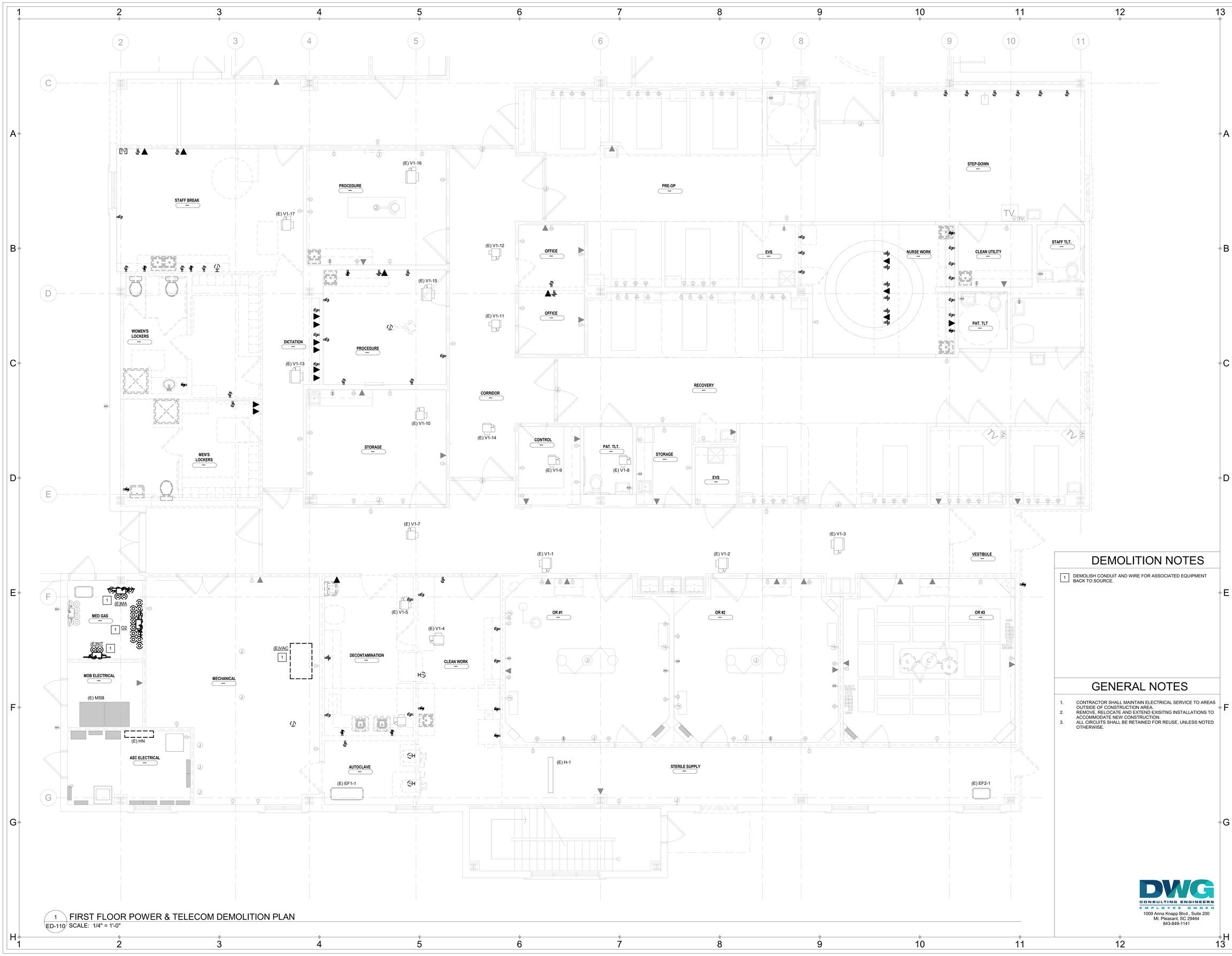

1 ED-110 FIRST FLOOR POWER & TELECOM DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

DEMOLITION NOTES

1 DEMOLISH CONDUIT AND WIRE FOR ASSOCIATED EQUIPMENT BACK TO SOURCE.

GENERAL NOTES

1. CONTRACTOR SHALL MAINTAIN ELECTRICAL SERVICE TO AREAS OUTSIDE OF CONSTRUCTION AREA.
2. REMOVE, RELOCATE AND EXTEND EXISITNG INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
3. ALL CIRCUITS SHALL BE RETAINED FOR REUSE, UNLESS NOTED OTHERWISE.

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PROJECT NO: 22-113

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Construction Documents

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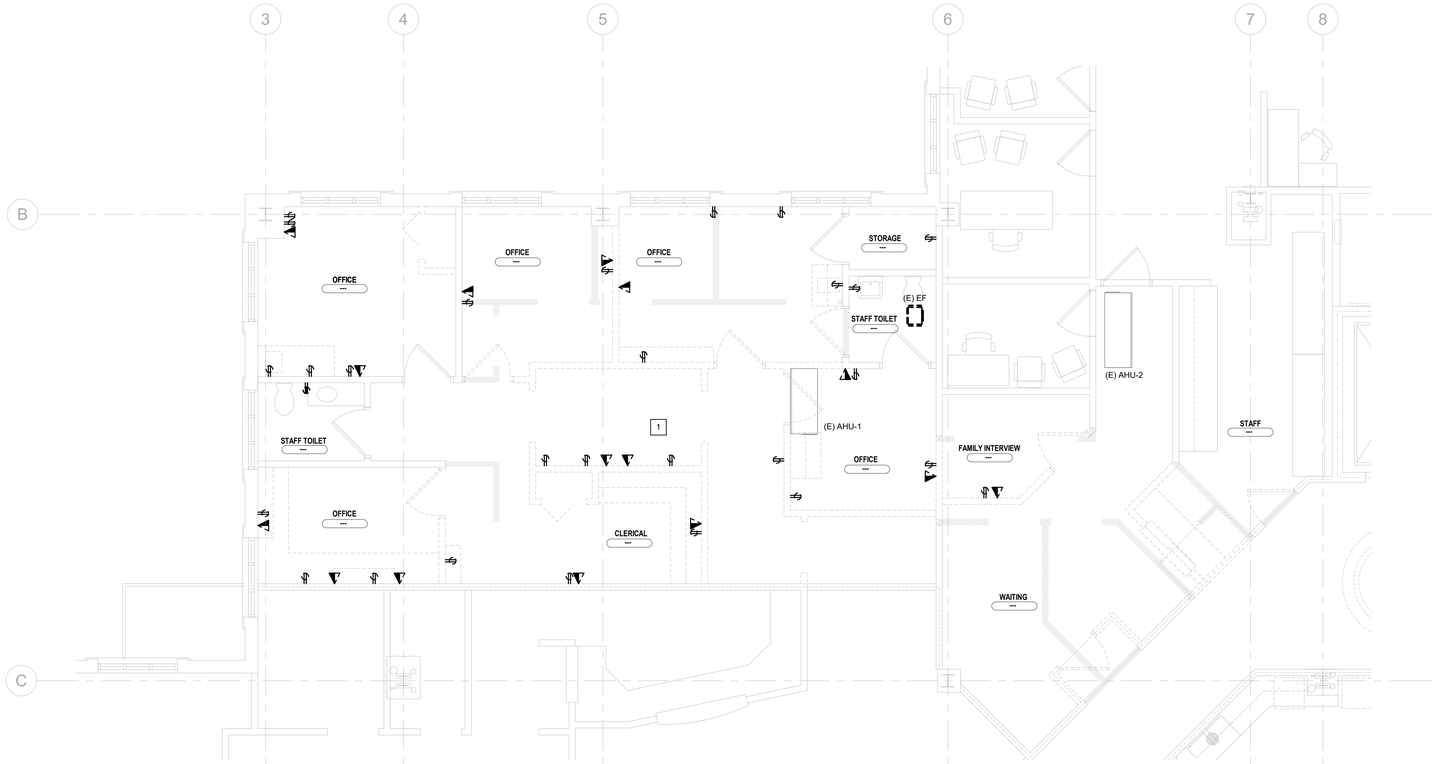
REVISIONS:

TITLE:

FIRST FLOOR POWER & TELECOM DEMOLITION PLAN

SHEET:

ED-110



1 ED-120 SECOND FLOOR POWER & TELECOM DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

DEMOLITION KEYNOTES

1 ALL DEVICES AND ASSOCIATED CONDUIT AND WIRE IN DEMOLISHED WALLS SHALL BE DEMOLISHED BACK TO SOURCE. ELECTRICAL ROOM SERVING SPACE IS LOCATED APPROXIMATELY 75 FEET AWAY.

GENERAL NOTES

1. CONTRACTOR SHALL MAINTAIN ELECTRICAL SERVICE TO AREAS OUTSIDE OF CONSTRUCTION AREA.
2. REMOVE, RELOCATE AND EXTEND EXISITNG INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.

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Myrtle Beach, South Carolina

for: HCA South Atlantic

PROJECT NO: 22-113

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REVISIONS:

TITLE:
SECOND FLOOR POWER & TELECOM DEMOLITION PLAN

SHEET: ED-120

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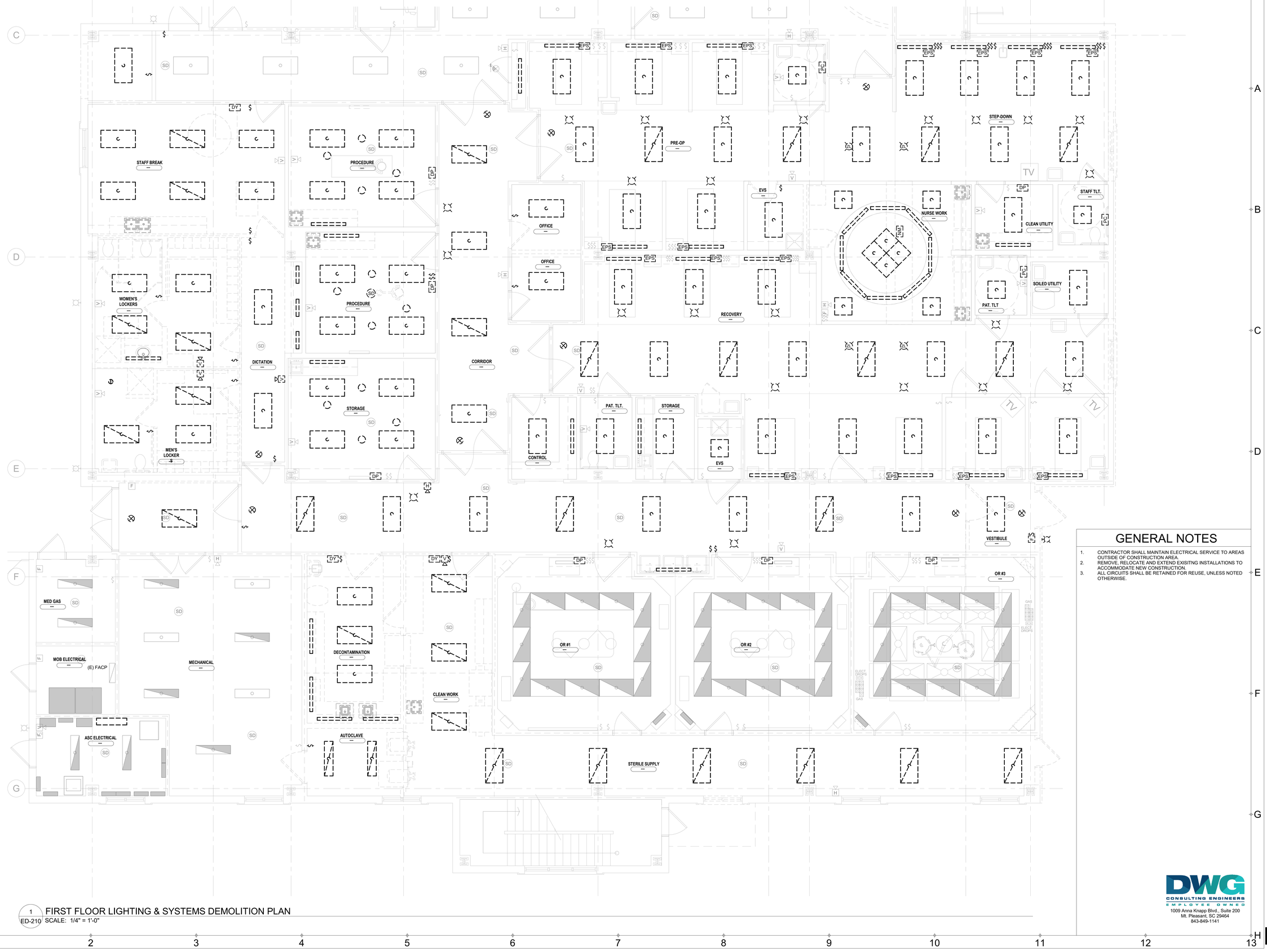

1 ED-210 FIRST FLOOR LIGHTING & SYSTEMS DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL MAINTAIN ELECTRICAL SERVICE TO AREAS OUTSIDE OF CONSTRUCTION AREA.
2. REMOVE, RELOCATE AND EXTEND EXISITNG INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
3. ALL CIRCUITS SHALL BE RETAINED FOR REUSE, UNLESS NOTED OTHERWISE.

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Construction Documents

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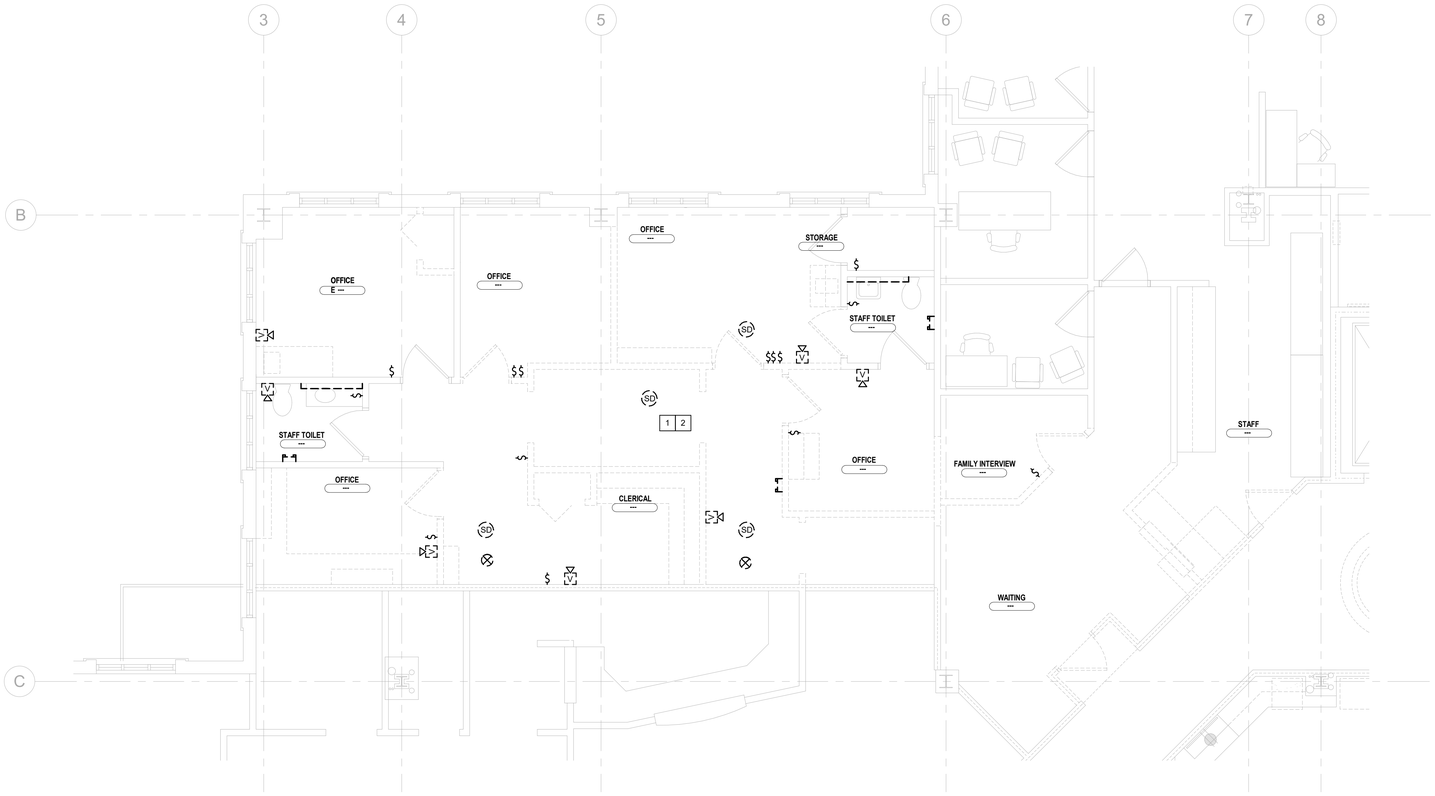
REVISIONS:

TITLE:

FIRST FLOOR LIGHTING & SYSTEMS DEMOLITION PLAN

SHEET:

ED-210



1 ED-220 SECOND FLOOR LIGHTING & SYSTEMS DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

DEMOLITION KEYNOTES

1 ALL LIGHT FIXTURES, LIGHTING CONTROLS AND ASSOCIATED CONDUIT AND WIRE IN DEMOLISHED WALLS AND CEILINGS SHALL BE DEMOLISHED BACK TO SOURCE. ELECTRICAL ROOM SERVING SPACE IS LOCATED APPROXIMATELY 75 FEET AWAY.

GENERAL NOTES

1. CONTRACTOR SHALL MAINTAIN ELECTRICAL SERVICE TO AREAS OUTSIDE OF CONSTRUCTION AREA.
2. REMOVE, RELOCATE AND EXTEND EXISITNG INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.

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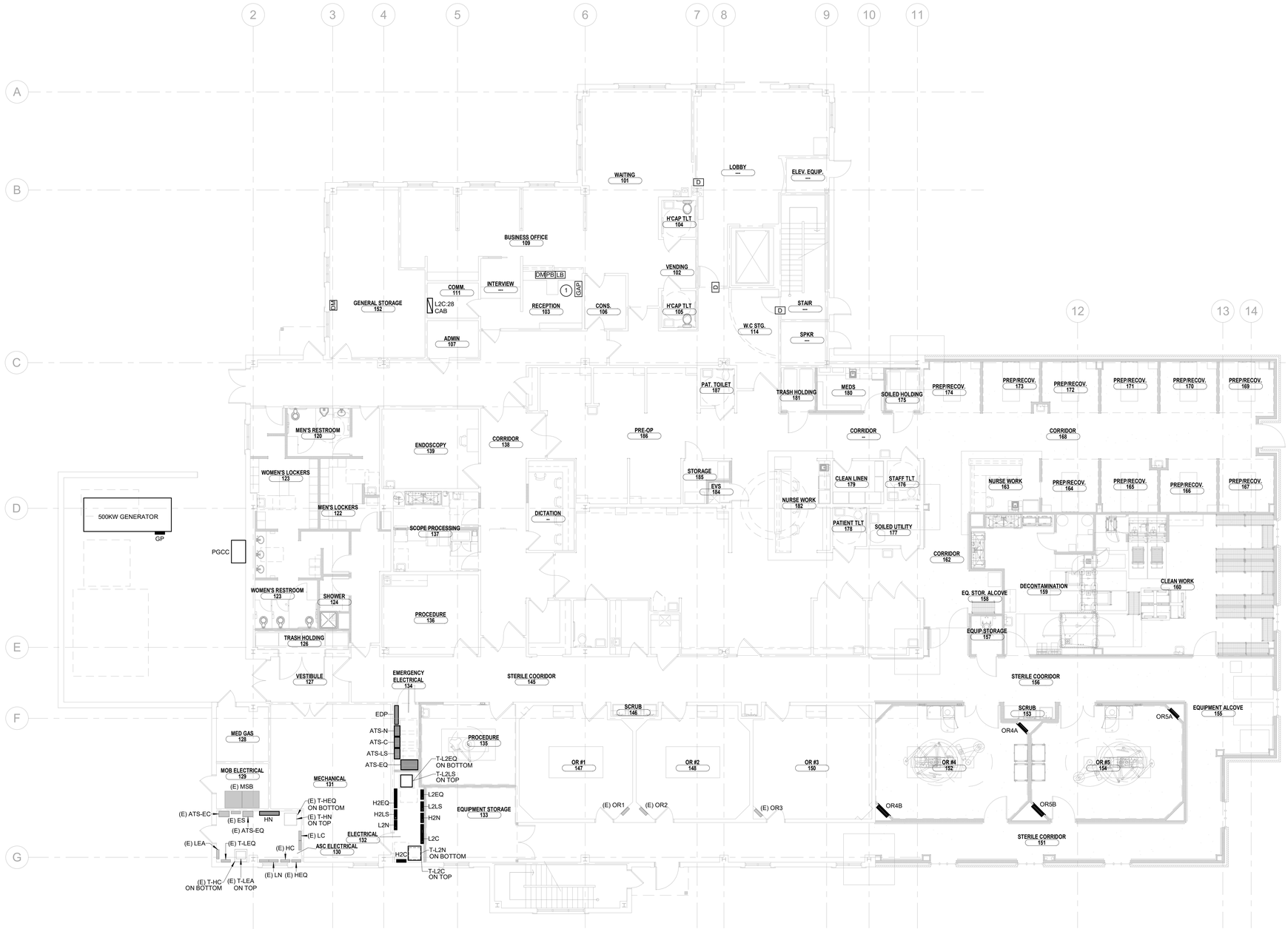
REVISIONS:

TITLE:
SECOND FLOOR LIGHTING & SYSTEMS DEMOLITION PLAN

SHEET:
ED-220



1 E-100 OVERALL FIRST FLOOR ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

RENOVATION KEYNOTES

1. COORDINATE EXACT LOCATION OF GENERATOR ANNUNICATOR PANEL WITH ARCHITECT AND OWNER AND ADJUST AS REQUIRED.

GENERAL NOTES

1. CONTRACTOR SHALL MAINTAIN ELECTRICAL SERVICE TO AREAS OUTSIDE OF CONSTRUCTION AREA.
2. REMOVE, RELOCATE AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
3. REFER TO CIVIL PLANS FOR LOCATION OF TRASH COMPACTOR. COORDINATE POWER REQUIREMENTS WITH EQUIPMENT MANUFACTURER AND PROVIDE AS REQUIRED,

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01/06/25

GRANDE DUNES A.S.C.
RENOVATION - PHASE III
Myrtle Beach, South Carolina
for: HCA South Atlantic

PROJECT NO: 22-113

DATE: January 6, 2025
Construction Documents

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OVERALL FIRST FLOOR ELECTRICAL PLAN

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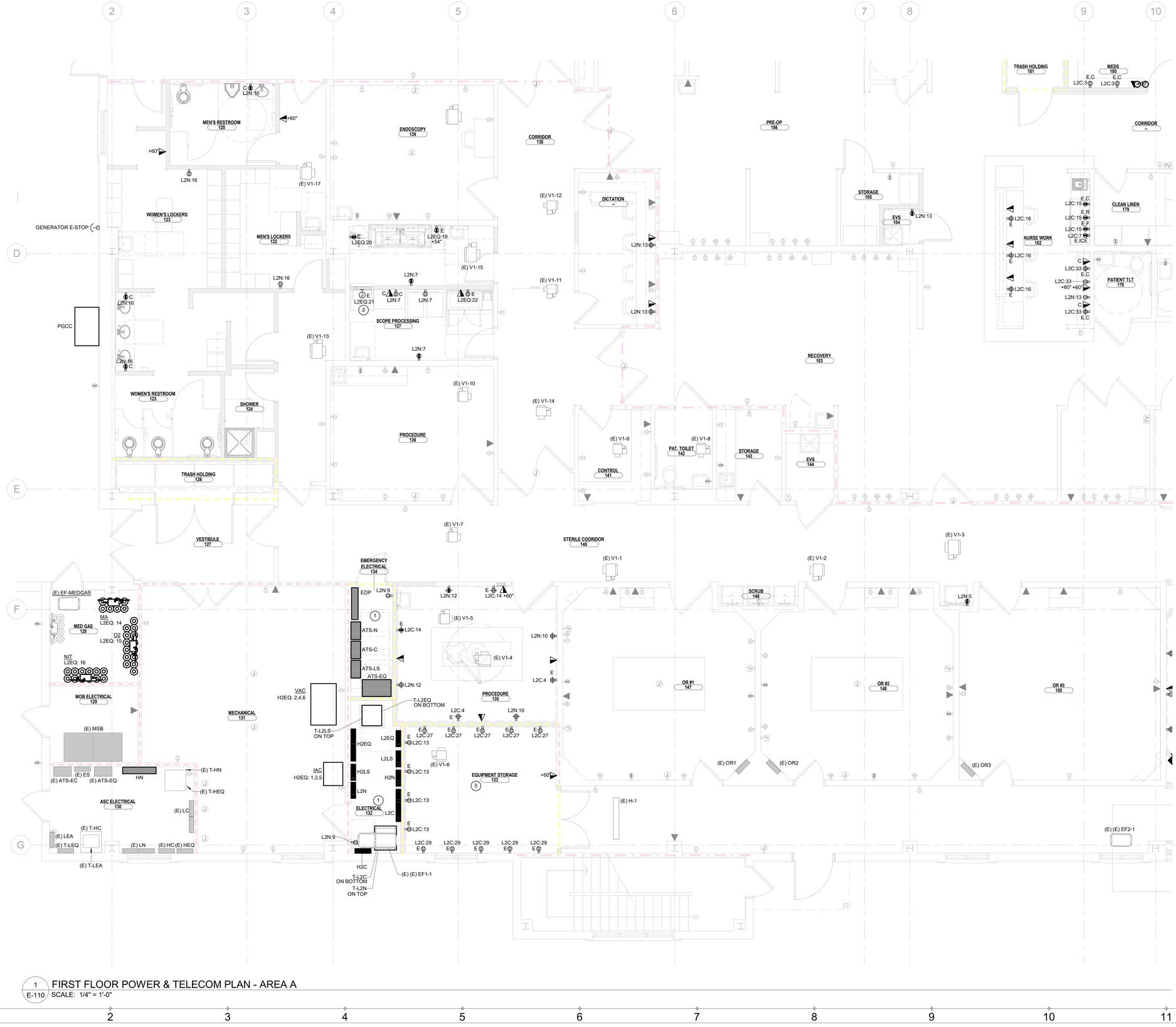
SHEET:

E-100



RENOVATION KEYNOTES

1. PROVIDE LAYOUT OF ELECTRICAL ROOMS USING DIMENSIONS OF EQUIPMENT ACTUALLY FURNISHED FOR REVIEW. COORDINATE ROUTING OF CONDUITS WITHIN ELECTRICAL ROOMS TO MAKE ALL REQUIRED CONNECTIONS.
2. PROVIDE (2)#12, #12G IN 3/4"C AND 30A/1P/1 NFDS FOR POWER TO PASS THROUGH DOOR.
3. PROVIDE FACTORY WIRED, UL LISTED, MULTIOUTLET SURFACE MOUNTED WIREMOLD FOR CIRCUITS SHOWN WITHIN ROOM. RECEPTACLES SHALL BE LOCATED EVERY 3'-0". WIREMOLD SHALL BE MOUNTED AT 4'-0" AFF.

GENERAL NOTES

1. CONTRACTOR SHALL MAINTAIN ELECTRICAL SERVICE TO AREAS OUTSIDE OF CONSTRUCTION AREA.
2. REMOVE, RELOCATE AND EXTEND EXISITNG INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
3. ALL CIRCUITS SHALL BE RETAINED FOR REUSE, UNLESS NOTED OTHERWISE.

1 E-110 FIRST FLOOR POWER & TELECOM PLAN - AREA A
SCALE: 1/4" = 1'-0"

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Myrtle Beach, South Carolina
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PROJECT NO: 22-113

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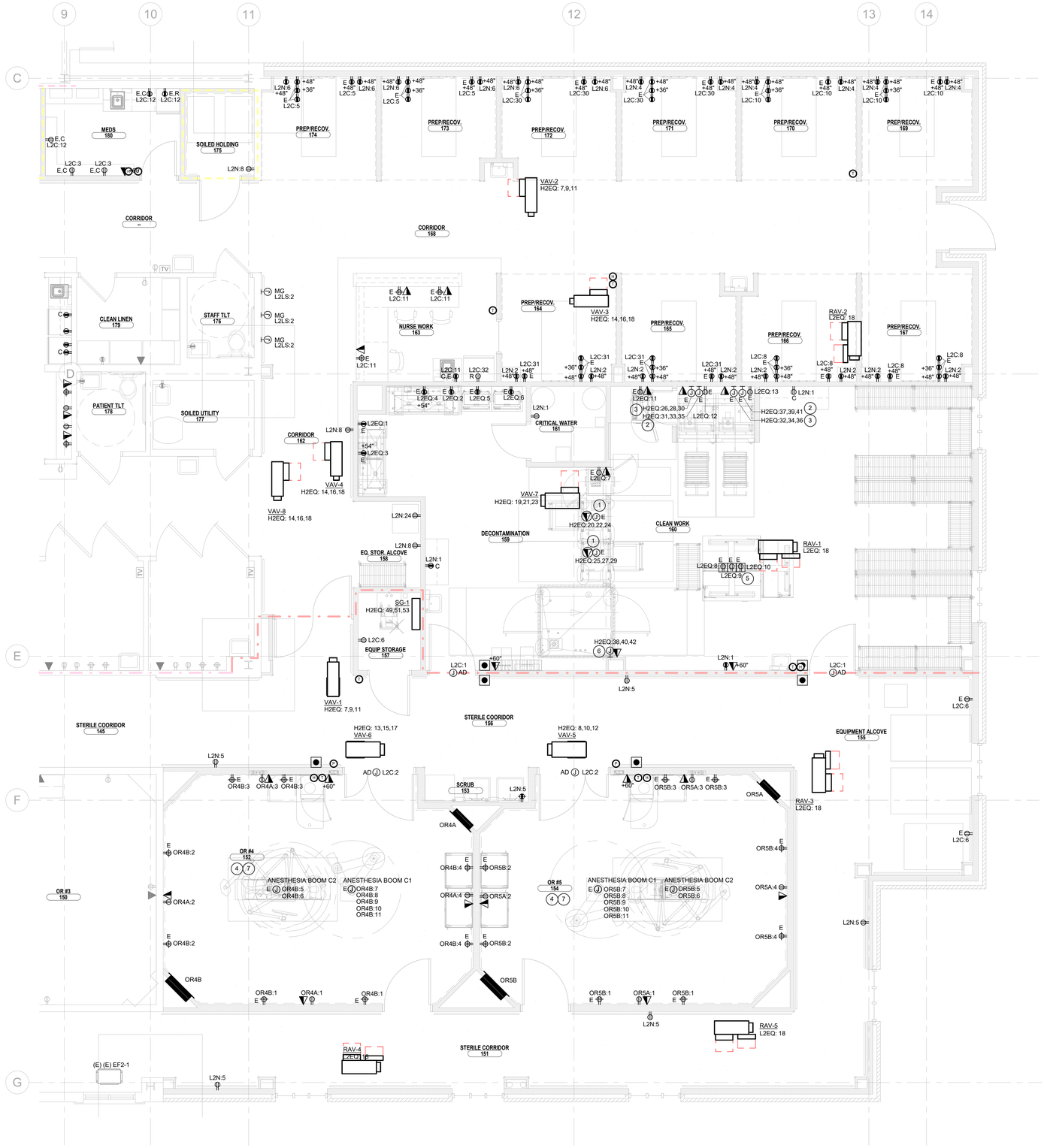
FIRST FLOOR POWER & TELECOM PLAN - AREA A

SHEET:

E-110



1 FIRST FLOOR POWER & TELECOM PLAN - AREA B
E-111 SCALE: 1/4" = 1'-0"

RENOVATION KEYNOTES

1. PROVIDE (3)#8, #10G IN 3/4"C AND A 60A/3P/1 NFDS FOR POWER TO WASHER/DISINFECTOR.
2. PROVIDE (3)#12, #12G IN 3/4"C AND A 30A/3P/1 NFDS FOR POWER TO STERILIZER.
3. PROVIDE (3)#4, #8G IN 1"C AND A 100A/3P/1 NFDS FOR POWER TO STERILIZER GENERATOR.
4. ALL RECEPTACLES WITHIN ROOM SHALL BE MOUNTED AT 48" AFF. COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
5. PROVIDE FLOOR BOX WITH (3) DUPLEX RECEPTACLES FOR POWER TO WORKSTATIONS. BOD: LEGRAND EVOLUTION EFB45. COORDINATE COVER FINISH WITH ARCHITECT PRIOR TO ORDERING.
6. PROVIDE (3)#4, #8G IN 1"C AND A 100A/3P/1 NFDS FOR POWER TO CART WASHER/DISINFECTOR.
7. COORDINATE CONDUIT QUANTITIES AND LOCATIONS FOR VIDEO INTEGRATION SYSTEM WITH SYSTEM MANUFACTURER AND PROVIDE AS REQUIRED.

GENERAL NOTES

1. CONTRACTOR SHALL MAINTAIN ELECTRICAL SERVICE TO AREAS OUTSIDE OF CONSTRUCTION AREA.
2. REMOVE, RELOCATE AND EXTEND EXISITNG INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
3. ALL CIRCUITS SHALL BE RETAINED FOR REUSE, UNLESS NOTED OTHERWISE.

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FIRST FLOOR POWER & TELECOM PLAN - AREA B

SHEET:

E-111

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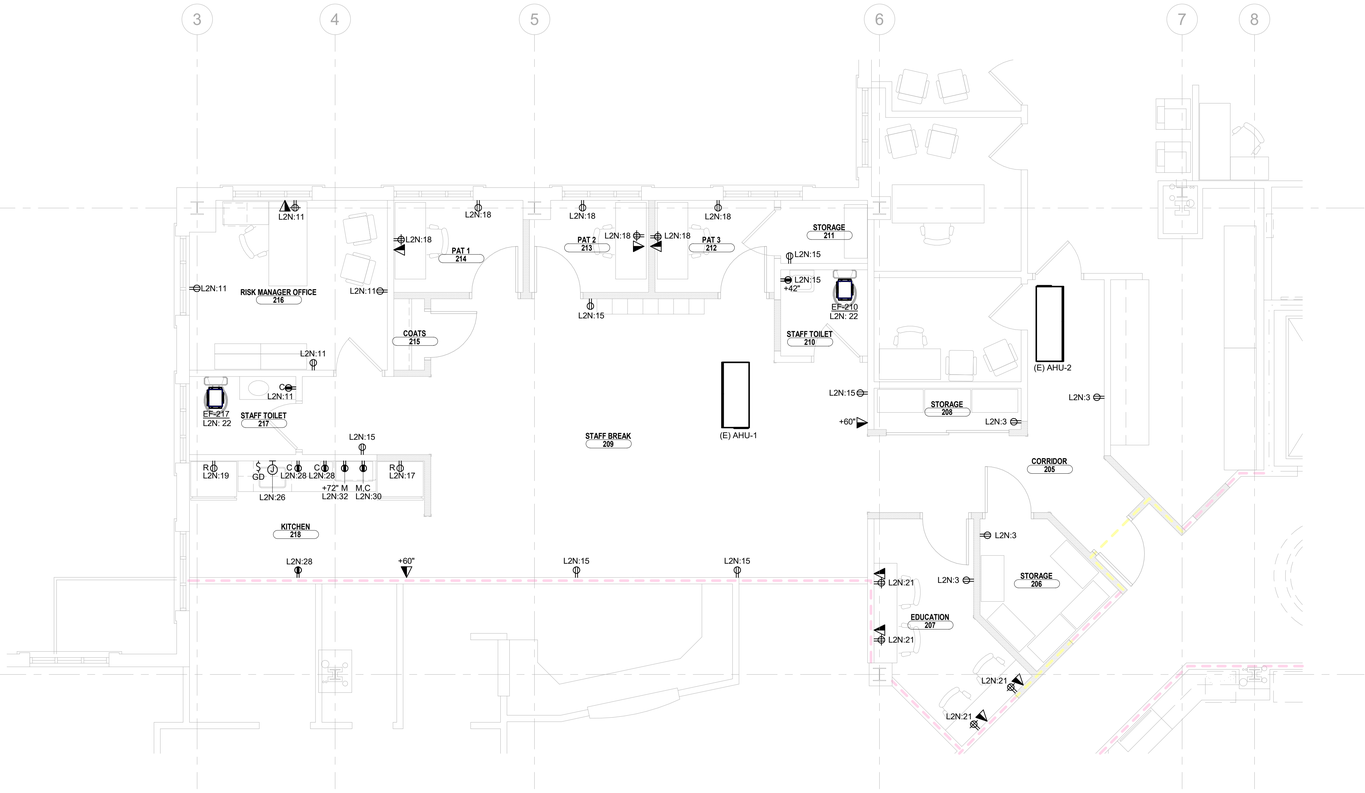

1 E-120 SCALE: 1/4" = 1'-0"

SECOND FLOOR POWER & TELECOM PLAN

GENERAL NOTES

1. CONTRACTOR SHALL MAINTAIN ELECTRICAL SERVICE TO AREAS OUTSIDE OF CONSTRUCTION AREA.
2. REMOVE, RELOCATE AND EXTEND EXISITNG INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
3. ALL CIRCUITS SHALL BE RETAINED FOR REUSE, UNLESS NOTED OTHERWISE.

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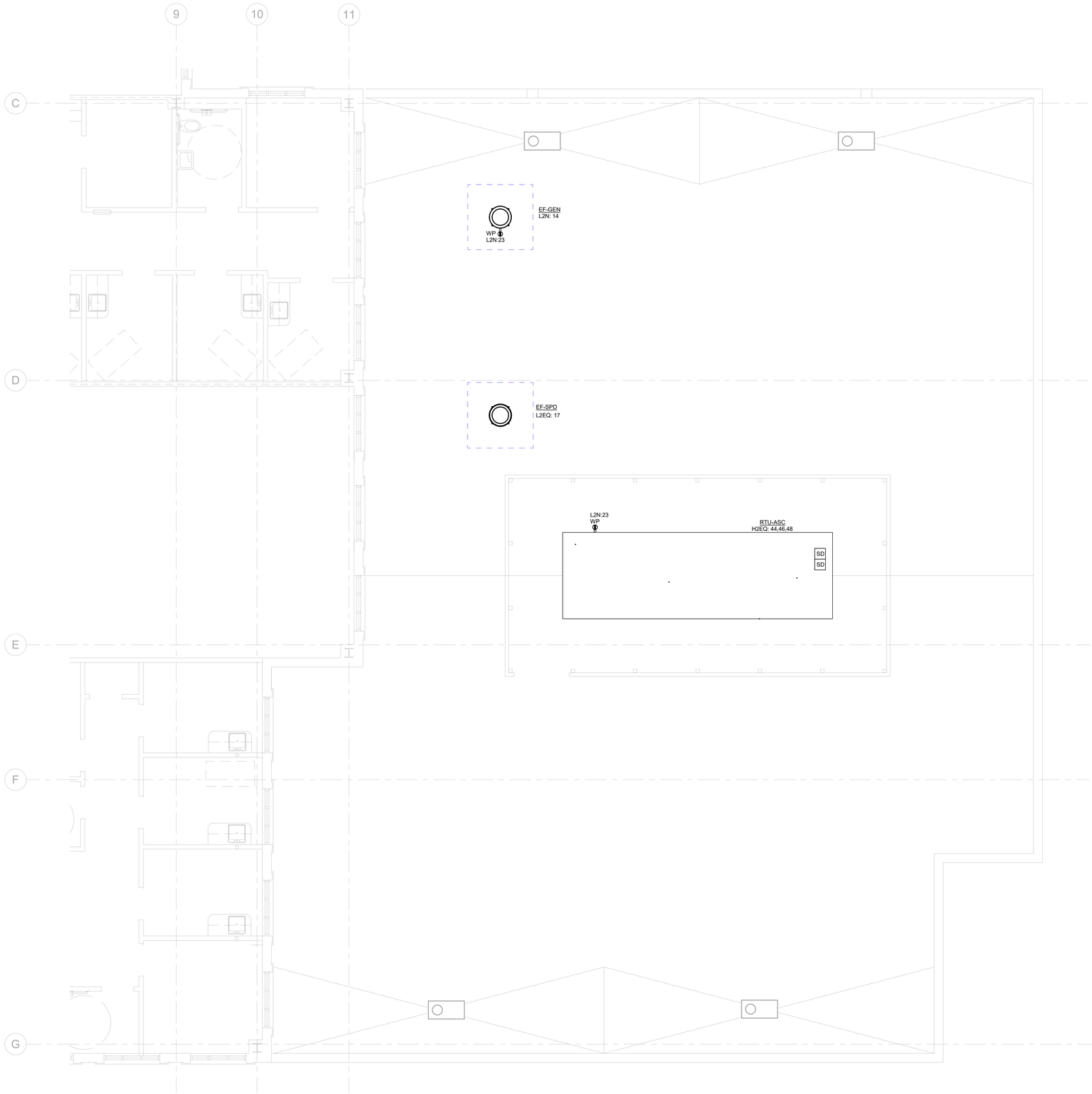
TITLE:
SECOND FLOOR POWER & TELECOM PLAN

SHEET:
E-120



1 E-130 ROOF ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. PROVIDE ALL DUCT SMOKE DETECTORS AND ACCESSORIES NECESSARY FOR INTERLOCKING WITH MECHANICAL EQUIPMENT (AHU'S, SMOKE DAMPERS, ETC). COORDINATE WITH MECHANICAL PLANS FOR LOCATIONS AND REQUIREMENTS.
2. INSTALL DUCT SMOKE DETECTORS TO COMPLY WITH NFPA 72. WHERE TWO DETECTOR LOCATIONS ARE SHOWN AT A SINGLE PIECE OF EQUIPMENT, INSTALL ONE DETECTOR IN THE SUPPLY DUCTWORK AND ONE DETECTOR IN THE RETURN DUCTWORK. COORDINATE MOUNTING LOCATION WITH THE MECHANICAL CONTRACTOR. PROVIDE WEATHERPROOF ENCLOSURE FOR DUCT DETECTORS INSTALLED IN EXTERIOR DUCTWORK. LOCATION SHOWN IS FOR REFERENCE ONLY.

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TITLE:

ROOF ELECTRICAL PLAN

SHEET:

E-130

1 E-210 FIRST FLOOR LIGHTING PLAN - AREA A
SCALE: 1/4" = 1'-0"

RENOVATION KEYNOTES

1. LIGHT FIXTURE SHALL BE INSTALLED IN SAME LOCATION AS DEMOLISHED LIGHT. CONNECT TO EXISTING NORMAL POWER LIGHTING CIRCUIT AND CONTROLS PREVIOUSLY SERVING SPACE.
2. PROVIDE (2) LIGHT FIXTURES IN THE SAME LOCATION AS DEMOLISHED LIGHTS. ONE FIXTURE SHALL BE MOUNTED IN THE UP POSITION AND ONE SHALL BE MOUNTED TO THE WALL. CONNECT TO EXISTING LIGHTING CIRCUIT AND CONTROLS.
3. LIGHT FIXTURE SHALL BE INSTALLED IN SAME LOCATION AS DEMOLISHED LIGHT. CONNECT TO EXISTING NORMAL POWER LIGHTING CIRCUIT PREVIOUSLY SERVING SPACE.
4. EXISTING LIGHTING AND LIGHTING CONTROLS IN OR'S TO REMAIN.
5. LIGHT FIXTURE SHALL BE INSTALLED IN SAME LOCATION AS DEMOLISHED LIGHT. CONNECT TO EXISTING CRITICAL POWER LIGHTING CIRCUIT AND CONTROLS PREVIOUSLY SERVING SPACE.
6. INSTALL SURGICAL LIGHTING CONTROL BACK BOX. PROVIDE 3/4" CONDUIT FROM SURGICAL LIGHT TO SURGICAL LIGHTING CONTROL PANEL.

GENERAL NOTES

1. CONTRACTOR SHALL MAINTAIN ELECTRICAL SERVICE TO AREAS OUTSIDE OF CONSTRUCTION AREA.
2. REMOVE, RELOCATE AND EXTEND EXISITNG INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
3. ALL CIRCUITS SHALL BE RETAINED FOR REUSE, UNLESS NOTED OTHERWISE.

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PROJECT NO: 22-113

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STERILE CORRIDOR 151

TITLE:

FIRST FLOOR LIGHTING PLAN - AREA A

SHEET:

E-210

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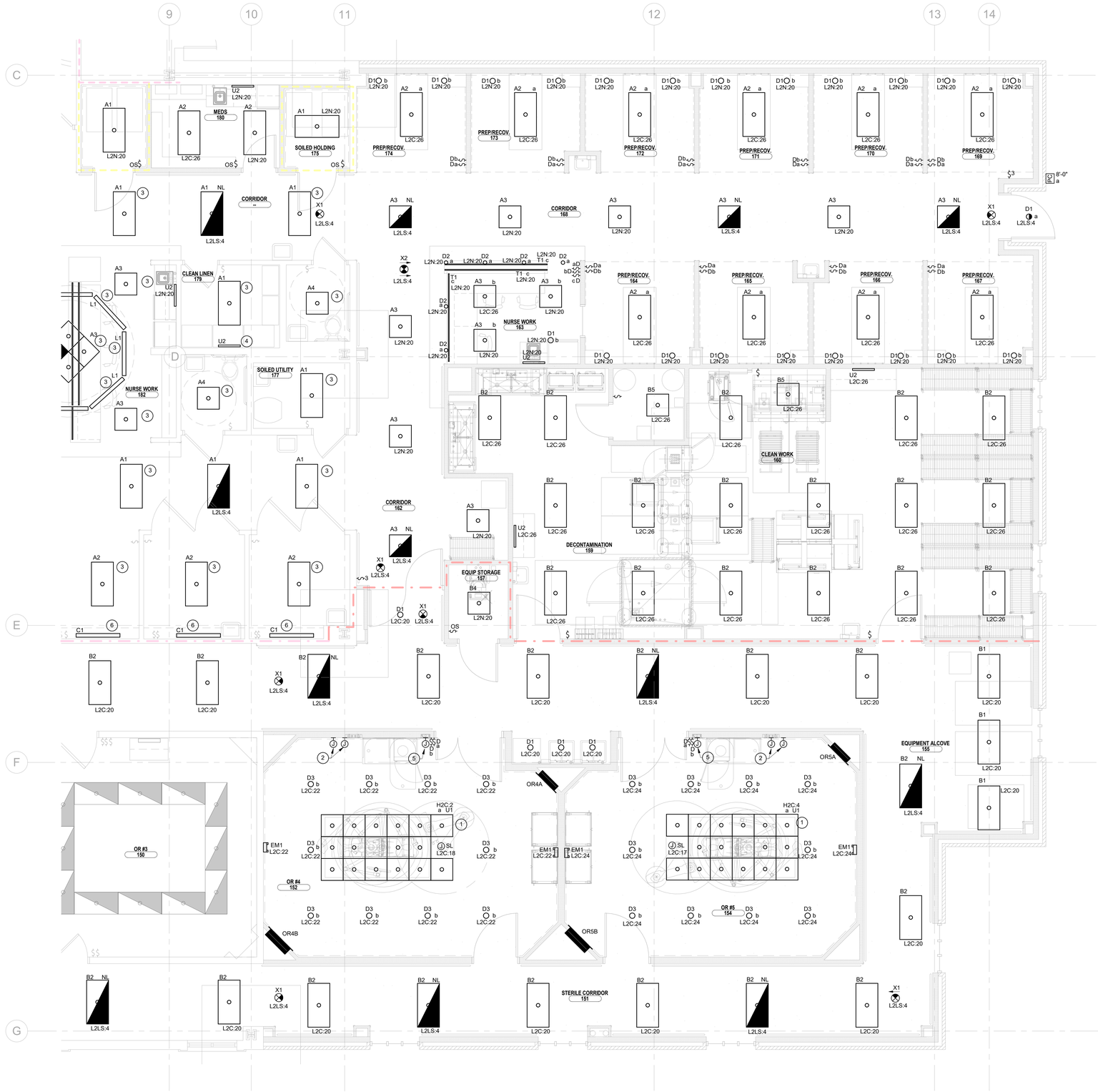

1 E-211 FIRST FLOOR LIGHTING PLAN - AREA B
SCALE: 1/4" = 1'-0"

RENOVATION KEYNOTES

1. O.R. TROFFERS ARE TO BE FURNISHED INTEGRAL TO ULTRASUITE O.R. DIFFUSER SYSTEM WITH INTEGRATED LIGHTING, PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. PROVIDE POWER CONNECTION AND DIMMING CONTROLS INDICATED BY SWITCH LEG.
2. INSTALL TWO DRIVER CABINET BOXES FOR ULTRASUITE LIGHTING CONTROLS; FURNISHED BY ULTRASUITE PROVIDER, INSTALLED BY CONTRACTOR. PROVIDE POWER AND CONTROLS IN 3/4"CONDUITS FROM EACH BOX TO THE DIMMER AND TO THE ULTRASUITE LIGHTS.
3. LIGHT FIXTURE SHALL BE INSTALLED IN SAME LOCATION AS DEMOLISHED LIGHT. CONNECT TO EXISTING NORMAL POWER LIGHTING CIRCUIT AND CONTROLS PREVIOUSLY SERVING SPACE.
4. LIGHT FIXTURE SHALL BE INSTALLED IN SAME LOCATION AS DEMOLISHED LIGHT. CONNECT TO EXISTING NORMAL POWER LIGHTING CIRCUIT PREVIOUSLY SERVING SPACE.
5. INSTALL SURGICAL LIGHTING CONTROL BACK BOX. PROVIDE 3/4" CONDUIT FROM SURGICAL LIGHT TO SURGICAL LIGHTING CONTROL PANEL.
6. PROVIDE (2) LIGHT FIXTURES IN THE SAME LOCATION AS DEMOLISHED LIGHTS. ONE FIXTURE SHALL BE MOUNTED IN THE UP POSITION AND ONE SHALL BE MOUNTED TO THE WALL. CONNECT TO EXISTING LIGHTING CIRCUIT AND CONTROLS.

GENERAL NOTES

1. CONTRACTOR SHALL MAINTAIN ELECTRICAL SERVICE TO AREAS OUTSIDE OF CONSTRUCTION AREA.
2. REMOVE, RELOCATE AND EXTEND EXISITNG INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
3. ALL CIRCUITS SHALL BE RETAINED FOR REUSE, UNLESS NOTED OTHERWISE.

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Myrtle Beach, South Carolina

for: HCA South Atlantic

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FIRST FLOOR LIGHTING PLAN - AREA B

SHEET:

E-211

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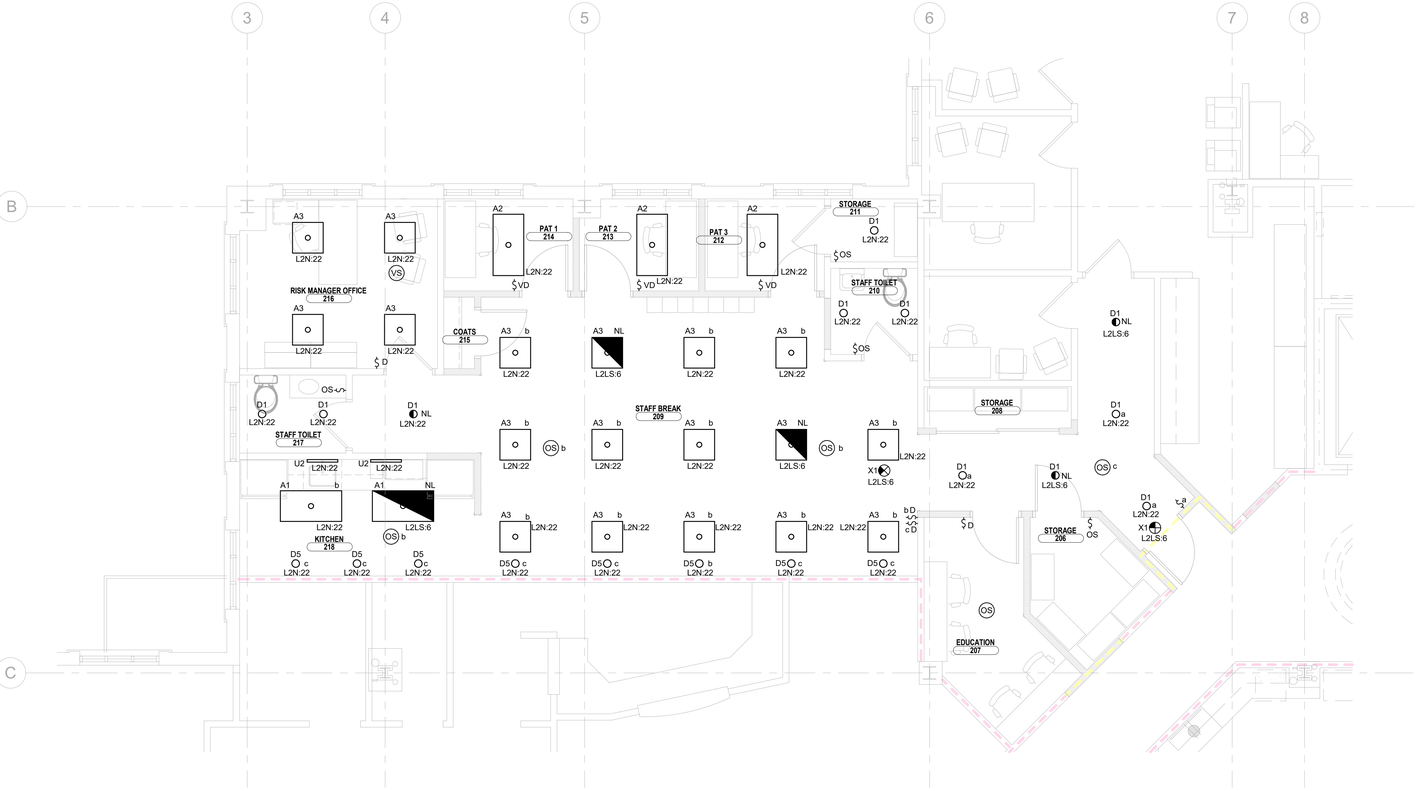

1 / E-220 SECOND FLOOR LIGHTING PLAN
SCALE: 1/4" = 1'-0"

RENOVATION KEYNOTES

GENERAL NOTES

1. CONTRACTOR SHALL MAINTAIN ELECTRICAL SERVICE TO AREAS OUTSIDE OF CONSTRUCTION AREA.
2. REMOVE, RELOCATE AND EXTEND EXISITNG INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
3. ALL CIRCUITS SHALL BE RETAINED FOR REUSE, UNLESS NOTED OTHERWISE.

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SECOND FLOOR LIGHTING PLAN

SHEET:

E-220

RENOVATION KEYNOTES

1. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH SECURITY SYSTEM PROVIDER AND OWNER PRIOR TO ROUGH-IN AND ADJUST AS REQUIRED.
2. CONNECT EXISTING FIRE ALARM CONTROL PANEL TO CIRCUIT L2LS:7.

MEN'S RESTROOM 120
WOMEN'S LOCKERS 123
MEN'S LOCKERS 122
WOMEN'S RESTROOM 123
SHOWER 124
TRASH HOLDING 126
VESTIBULE 127
MED GAS 128
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EDP
ATS-N
ATS-C
ATS-LS
ATS-EQ
T-L2LS
T-L2EQ
L2EQ
H2EQ
L2LS
H2LS
H2N
L2N
L2C
T-L2C
T-L2N
H2C
(E) FACP
(E) MSB
(E) ES
(E) ATS-EQ
HN
(E) T-HN
(E) T-HEQ
(E) ATS-EC
(E) LC
(E) T-LEA
(E) T-HC
(E) LEA
(E) T-LEQ
(E) LN
(E) HC(E) HEQ

1 E-310 FIRST FLOOR SYSTEMS PLAN - AREA A
SCALE: 1/4" = 1'-0"

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FIRST FLOOR SYSTEMS PLAN - AREA A

SHEET:

E-310

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1 E-311 FIRST FLOOR SYSTEMS PLAN - AREA B
SCALE: 1/4" = 1'-0"

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SHEET:

E-311

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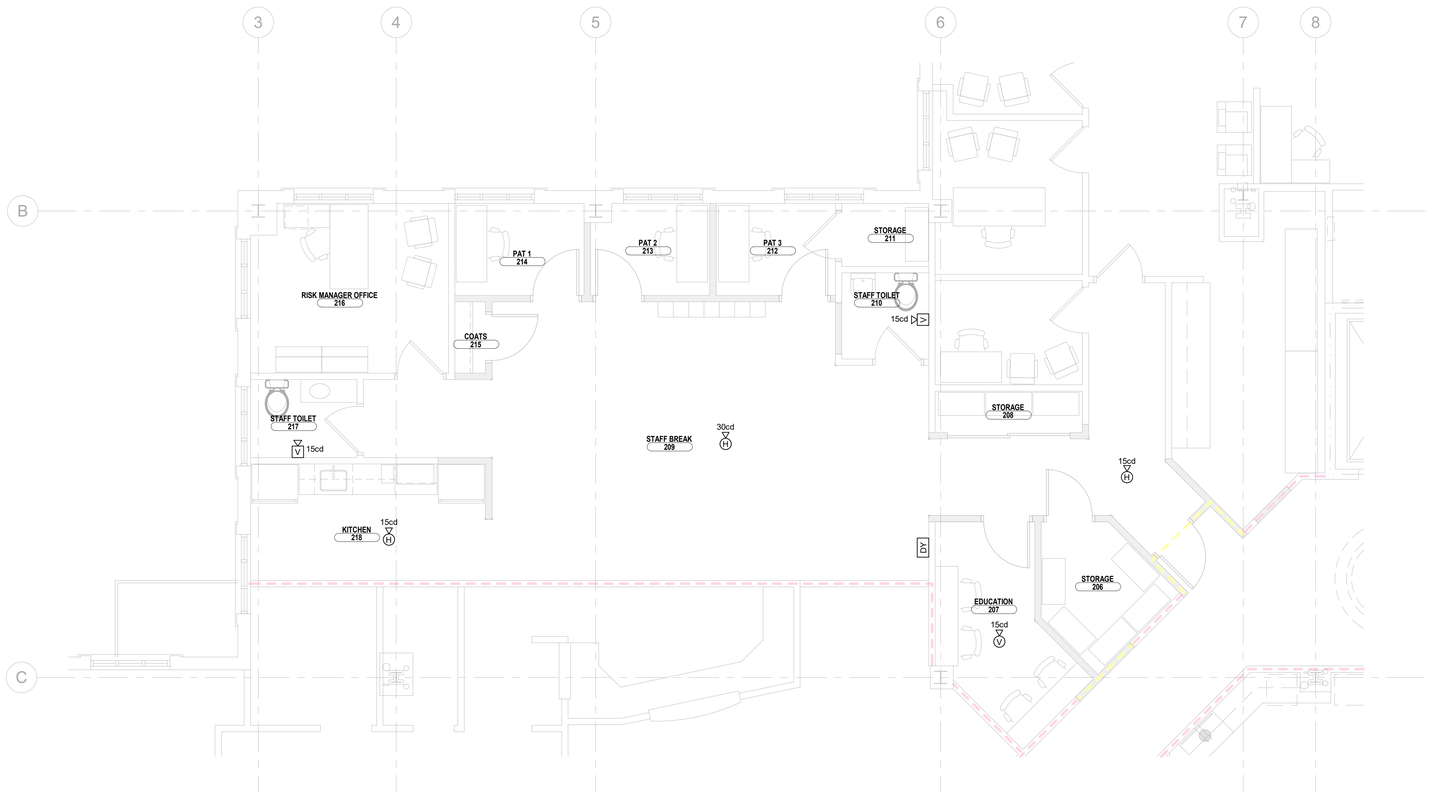

1 E-320 SECOND FLOOR LIGHTING & SYSTEMS PLAN

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

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SECOND FLOOR SYSTEMS PLAN

SHEET:

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