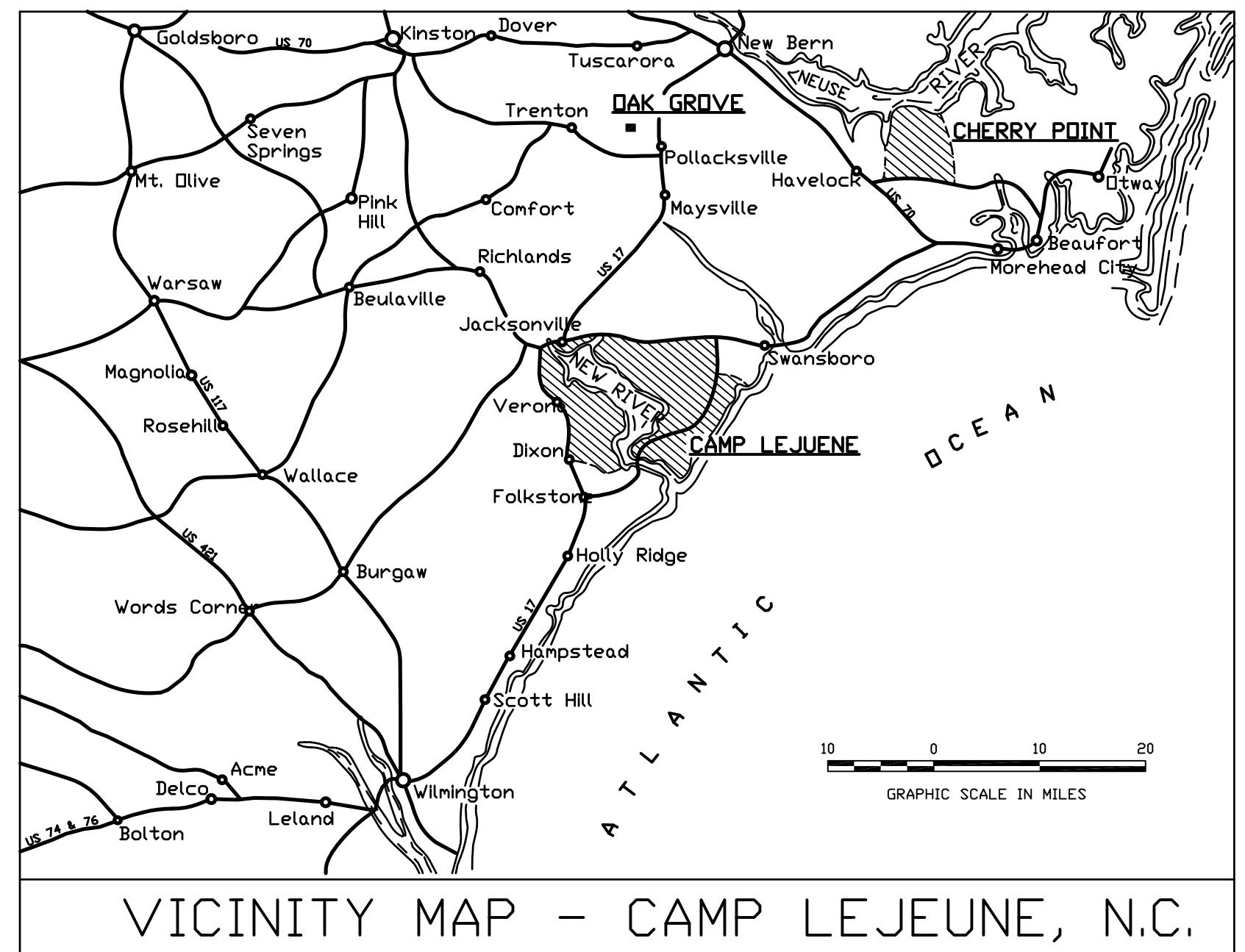
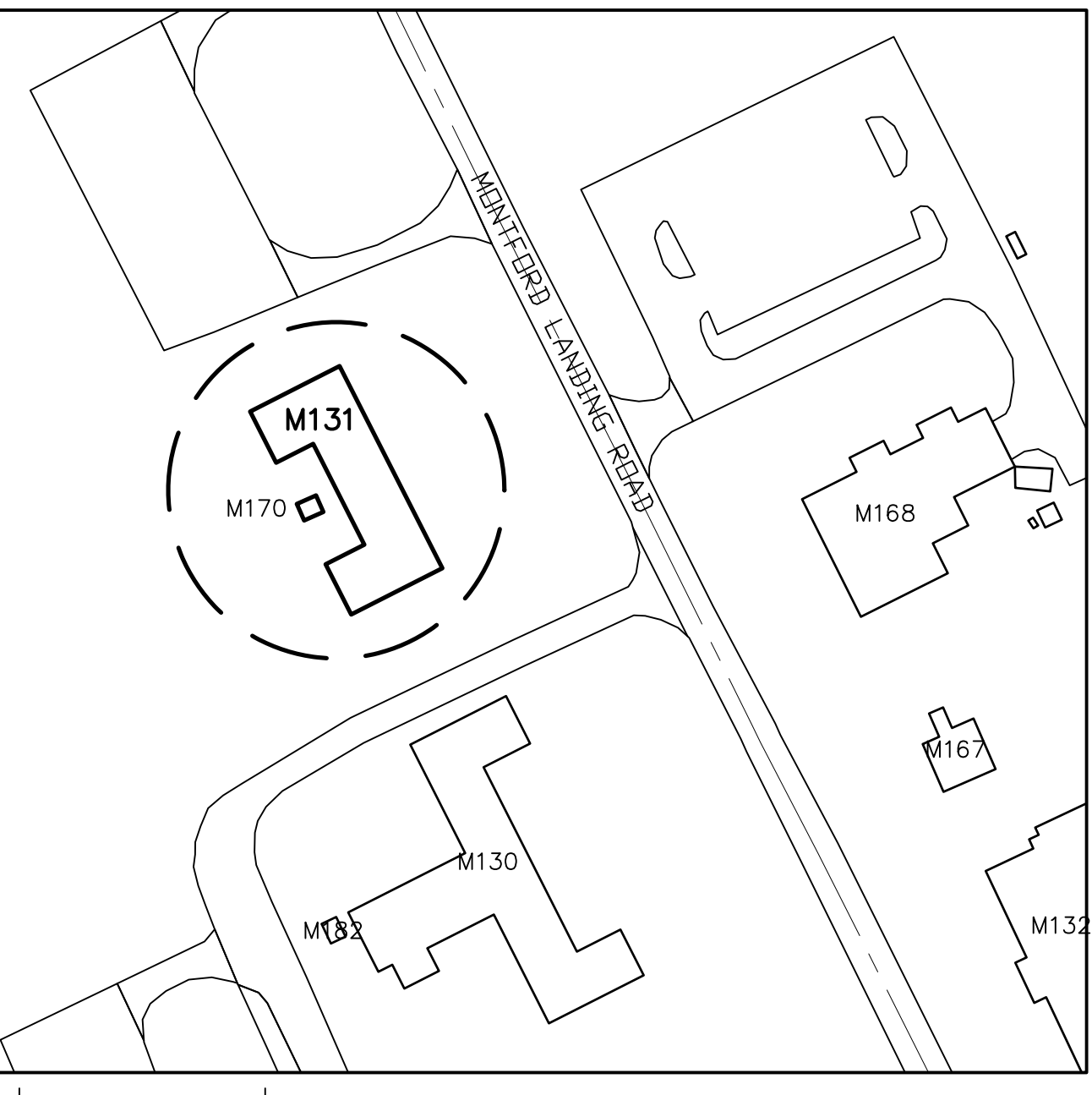
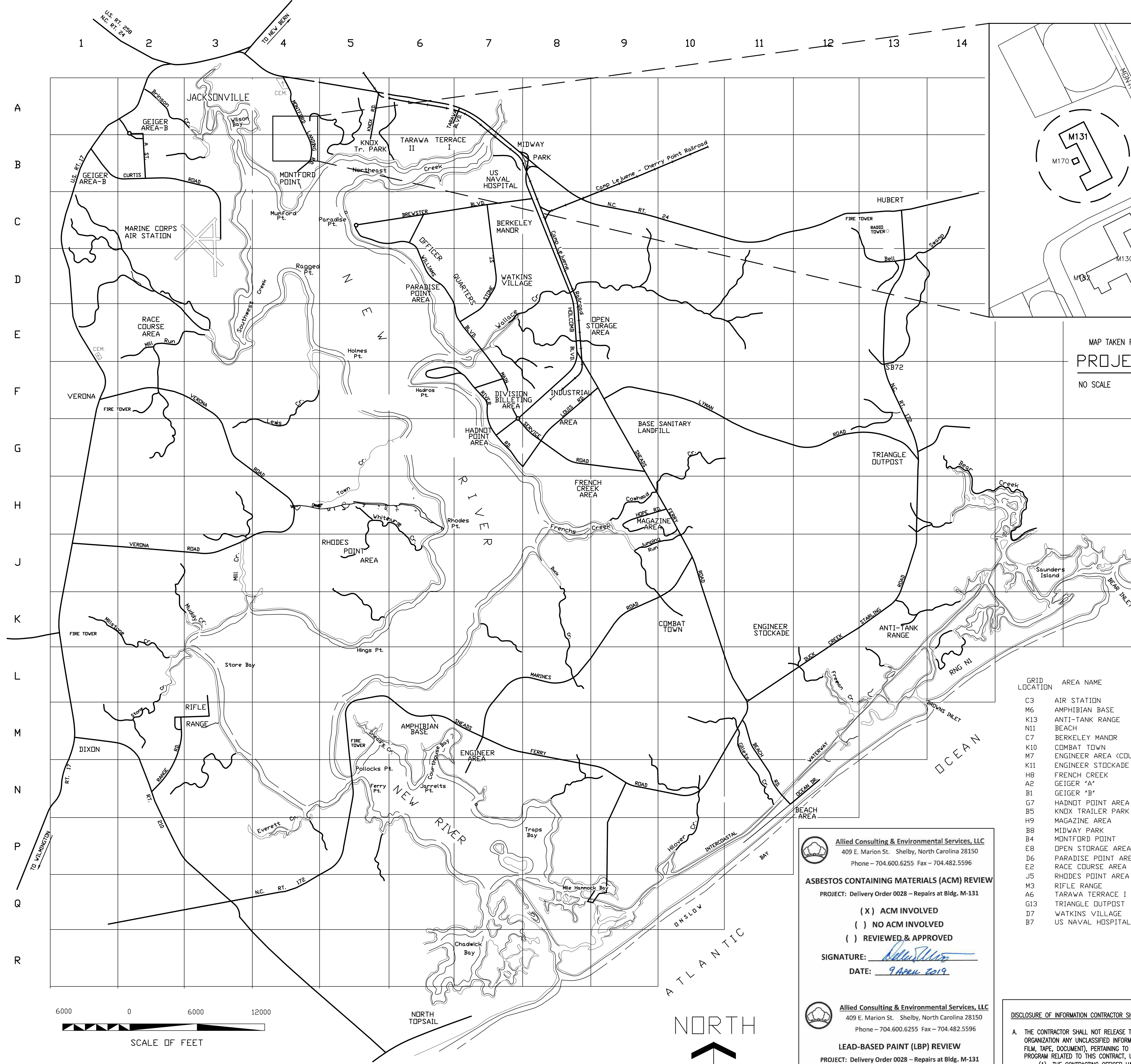


REVISIONS		
SYMBOL	DATE	APPROVED



MAP TAKEN FROM THE BOTTOM RIGHT OF GRID A4
PROJECT AREA MAP
 NO SCALE

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2. 60024501 LS-1 LIFE SAFETY LEGEND AND NOTES	32. 60024531 FP-2 RENOVATED FIRE PROTECTION FLOOR PLAN
3. 60024502 LS-2 LIFE SAFETY FLOOR PLAN	33. 60024532 FP-3 FIRE PROTECTION DETAILS
4. 60024503 H-1 HAZARDOUS MATERIAL PLAN	34. 60024533 P-1 SCHEDULES, LEGEND ABBREVIATIONS AND LOADS
5. 60024504 C-1 SITE PLAN EXISTING CONDITIONS AND DEMOLITION	35. 60024534 P-2 PLUMBING DEMOLITION FLOOR PLAN
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12. 60024511 A-5 EXISTING CONDITIONS PLAN	42. 60024541 M-4 MECHANICAL DETAILS
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15. 60024514 A-8 ROOF PLANS	45. 60024544 M-7 MECHANICAL CONTROLS
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23. 60024522 S2 ROOF FRAMING PLANS	53. 60024552 E-8 ELECTRICAL POWER DEMOLITION PLAN
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25. 60024524 S4 BUILDING SECTION	55. 60024554 E-10 ELECTRICAL SITE PLAN
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30. 60024529 FA-4 FIRE ALARM DETAILS	

GRID LOCATION	AREA NAME
C3	AIR STATION
M6	AMPHIBIAN BASE
K13	ANTI-TANK RANGE
N11	BEACH
C7	BERKELEY MANOR
K10	COMBAT TOWN
M7	ENGINEER AREA (COURTHOUSE BAY)
K11	ENGINEER STOCKADE
H8	FRENCH CREEK
A2	GEIGER 'A'
B1	GEIGER 'B'
G7	HADNOT POINT AREA
B5	KNDX TRAILER PARK
H9	MAGAZINE AREA
B8	MIDWAY PARK
B4	MONTFORD POINT
E8	OPEN STORAGE AREA
D6	PARADISE POINT AREA
E2	RACE COURSE AREA
J5	RHODES POINT AREA
M3	RIFLE RANGE
A6	TARAWA TERRACE I & II
G13	TRIANGLE OUTPOST
D7	WATKINS VILLAGE
B7	US NAVAL HOSPITAL

Allied Consulting & Environmental Services, LLC
 409 E. Marion St. Shelby, North Carolina 28150
 Phone - 704.600.6255 Fax - 704.482.5596

ASBESTOS CONTAINING MATERIALS (ACM) REVIEW
 PROJECT: Delivery Order 0028 - Repairs at Bldg. M-131

ACM INVOLVED
 NO ACM INVOLVED
 REVIEWED & APPROVED
 SIGNATURE: *[Signature]*
 DATE: 9 APR 2019

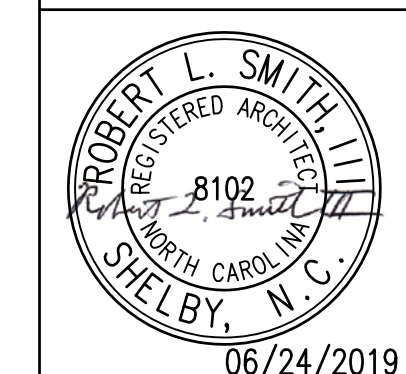
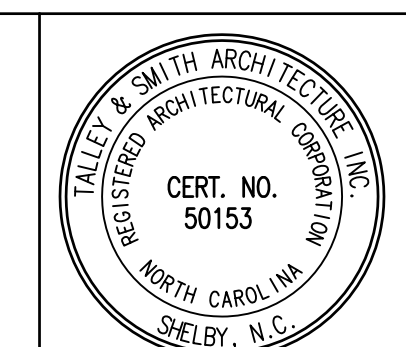
Allied Consulting & Environmental Services, LLC
 409 E. Marion St. Shelby, North Carolina 28150
 Phone - 704.600.6255 Fax - 704.482.5596

LEAD-BASED PAINT (LBP) REVIEW
 PROJECT: Delivery Order 0028 - Repairs at Bldg. M-131

LBP INVOLVED
 NO LBP INVOLVED
 REVIEWED & APPROVED
 SIGNATURE: *[Signature]*
 DATE: 9 APR 2019

DISCLOSURE OF INFORMATION CONTRACTOR SHALL COMPLY AS FOLLOWS:

- THE CONTRACTOR SHALL NOT RELEASE TO ANYONE OUTSIDE THE CONTRACTOR'S ORGANIZATION ANY UNCLASSIFIED INFORMATION, REGARDLESS OF MEDIUM (E.G., FILM, TAPE, DOCUMENT), PERTAINING TO ANY PART OF THIS CONTRACT OR ANY PROGRAM RELATED TO THIS CONTRACT, UNLESS:
 - THE CONTRACTING OFFICER HAS GIVEN PRIOR WRITTEN APPROVAL; OR
 - THE INFORMATION IS OTHERWISE IN THE PUBLIC DOMAIN BEFORE THE DATE OF RELEASE.
- REQUESTS FOR APPROVAL SHALL IDENTIFY THE SPECIFIC INFORMATION TO BE RELEASED, THE MEDIUM TO BE USED, AND THE PURPOSE FOR THE RELEASE. THE CONTRACTOR SHALL SUBMIT ITS REQUEST TO THE CONTRACTING OFFICER AT LEAST 45 DAYS BEFORE THE PROPOSED DATE FOR RELEASE.
- THE CONTRACTOR AGREES TO INCLUDE A SIMILAR REQUIREMENT ON EACH SUBCONTRACTOR UNDER THIS CONTRACT. SUBCONTRACTORS SHALL SUBMIT REQUESTS FOR AUTHORIZATION TO RELEASE THROUGH THE PRIME CONTRACTOR TO THE CONTRACTING OFFICER.



SHEET TITLE: **LOCATION MAPS, DRAWING LIST, NOTES** **T-1**

TALLEY & SMITH ARCHITECTURE INC.
 P.O. BOX 518 SHELBY, NC 28151-0518
 409 EAST MARION ST. SHELBY, NC 28150

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
 CAMP LEJEUNE, NORTH CAROLINA

DES. Robert L. Smith III
 DR. Steven C. Fender
 CHK. Robert L. Smith III
 SUBMITTED BY:
 DESIGN DIR.
 APPROVED:
 DATE: 06/24/2019

SIZE: F
 CODE IDENT. NO.: 80091
 NAVFAC DRAWING NO.: 60024500
 CONST. CONTR. NO.: N40085-19-B-0025
 SCALE: NOTED SPEC. 05-19-0025 SHEET 1 OF 59

LOCATION MAP - U. S. MARINE CORPS BASE - CAMP LEJEUNE, N.C.

REVISIONS		
SYM.	DATE	APPROVED

CODE ANALYSIS:

OCCUPANCY CLASSIFICATION:
BUSINESS OCCUPANCY "B"

CONSTRUCTION TYPE: II-B NON-RATED NON-COMBUSTIBLE CONSTRUCTION

STRUCTURAL FRAME: 0 HR. RATED

BEARING WALLS: 0 HR. RATED

NON-BEARING WALLS: 0 HR. RATED, INTERIOR
0 HR. RATED, EXTERIOR

FLOOR: 0 HR. RATED

ROOF: 0 HR. RATED

FIRE SUPPRESSION: SPRINKLERED THROUGHOUT

ALLOWABLE AREA (S.F.) UNLIMITED (IBC 507.4)

ACTUAL AREA (S.F. ±): 8,078

ALLOWABLE & ACTUAL EGRESS DISTANCES (FT.):

TRAVEL DISTANCE	ALLOWABLE	ACTUAL
COMMON PATH	250	95
DEAD END CORRIDOR	100	57
	50	28

BUILDING HEIGHT (ACTUAL / ALLOWABLE):
STORIES: 1 / 4 (BASED ON SPRINKLERED II-B CONSTRUCTION)
FEET: 25 ± / 75 (BASED ON SPRINKLERED II-B CONSTRUCTION)

EXITS (ACTUAL/REQUIRED):
GROUND: 4 / 2 (BASED ON 108 OCCUPANTS)

LEGEND:

- F FIRE ALARM PULL STATION
- FEC FIRE EXTINGUISHER CABINET
- FE FIRE EXTINGUISHER
- SR SPRINKLER RISER
- FMCP FIRE ALARM AND MASS NOTIFICATION CONTROL PANEL
- B WATERFLOW BELL
- DOOR EGRESS ELEMENT (DOOR, STAIR, ETC.)
- XXX EGRESS WIDTH (CLEAR)
- XXX EXIT WIDTH PER PERSON (IN.)
- XXX CAPACITY (PEOPLE)
- XXX ACTUAL (PEOPLE)
- TD= XX' TRAVEL DISTANCE TO AN EXIT
- CP= XX' COMMON PATH TO POINT WHERE TWO PATHS OF EGRESS AVAILABLE

EXIT SIGNS

- X CEILING MOUNT EXIT SIGN
- X WALL MOUNT LIGHTED EXIT SIGN
- DIRECTION ARROW
- LIGHTED / SIDE FACE
- 1 HOUR FIRE BARRIER
- 2 HOUR FIRE BARRIER
- SMOKE BARRIER

LEVEL 1 OCCUPANT LOAD:			
USE/ROOM	AREA	SF/PERSON	LOAD
REST/SHOWER	387	50	8
MECH/ELEC	454	500	2
BUSINESS	3582	150	24
CONFERENCE	1077	15 (NET)	72
BREAK ROOM	246	150	2
		TOTAL	108

NOTE: OCCUPANT LOAD BASED ON BUILDING AREA

EXIT CAPACITY:

(EXITS FROM INDIVIDUAL ROOMS NOT INCLUDED)

3 EXTERIOR DOORS AT 33" EACH

1 EXTERIOR DOOR AT 66"

TOTAL EXIT WIDTH PROVIDED = 165"



TOTAL EXIT WIDTH REQUIRED (108 X 0.2) = 21.6"

FIRE EXTINGUISHER TABLE					
TYPE	RATING	HAZARD	QTY	ROOM #	ROOM NAME
DRY CHEMICAL	4A:80B-C	CLASS A/B/C	1	101A	ENTRY
			1	132	MECH
			1	102	CORRIDOR
			1	115	CORRIDOR
		TOTAL	4		

BASED ON:

- 2018 NFPA 101 LIFE SAFETY CODE
- 2015 INTERNATIONAL BUILDING CODE
- 2018 NFPA 10 PORTABLE FIRE EXTINGUISHER
- 2017 NFPA 70 NATIONAL ELECTRICAL CODE
- 2016 NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
- 2016 NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE
- 2018 NFPA 90A STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATION SYSTEMS

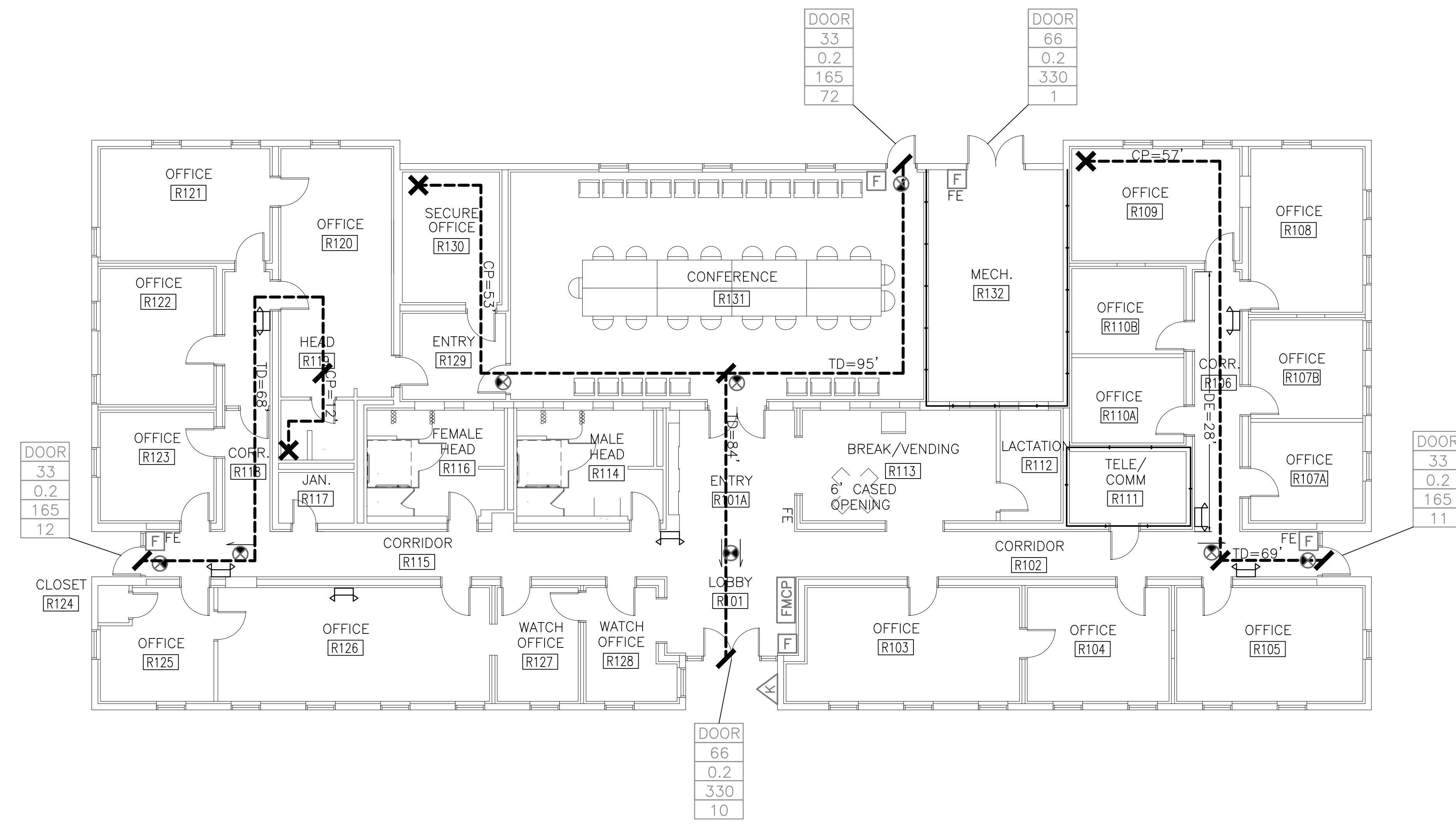
SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

 Lovett Consultants 4455 Morris Park Dr. Suite II Mint Hill, NC 28227 Ph: 704.545.8393 Fire Protection & Building Code Specialists NC Firm License No: F-0296	SHEET TITLE: LIFE SAFETY LEGEND AND NOTES		LS-1
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150		
 JENNIFER L. LOVETT 06-24-2019	DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA		INTERIOR/EXTERIOR REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA
	DES: GMM DR: ANP CHK: JLL SUBMITTED BY: DESIGN DIR: APPROVED: _____ DATE: _____ SATISFACTORY TO: _____ DATE: _____		
SIZE: F CODE IDENT. NO.: 80091		NAVFAC DRAWING NO.: 60024501 CONST. CONTR. NO.: N40085-19-B-0025	
SCALE: NOTED		SPEC: 05-19-0025 SHEET 2 OF 59	

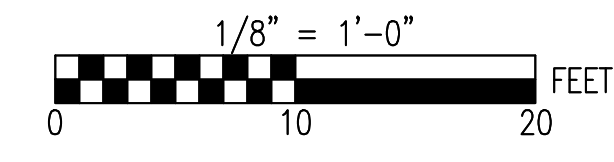
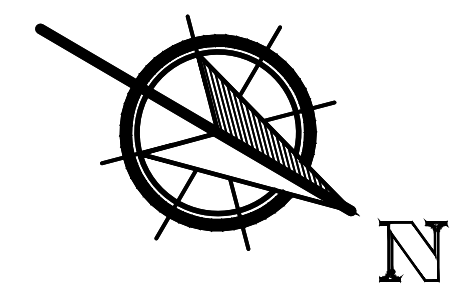
REVISIONS		
SYM.	DATE	APPROVED

SHEET NOTES:

- REFERENCE LS-1 FOR CODE ANALYSIS AND LEGEND.



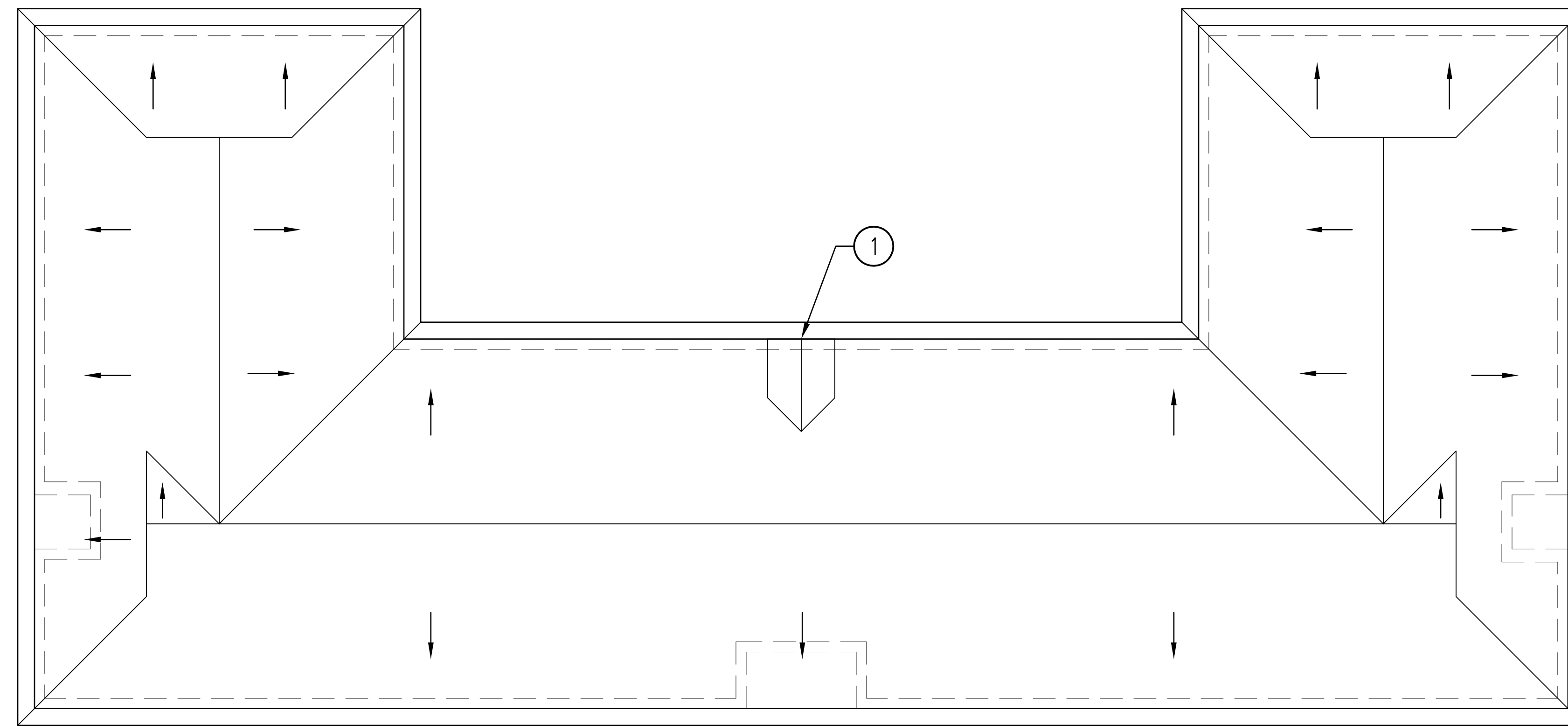
LIFE SAFETY FLOOR PLAN 1
LS -2
1/8" = 1'-0"



SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

Lovett Consultants <small>4455 Morris Park Dr. Suite II Mint Hill, NC 28227 Ph: 704.545.8303 Fire Protection & Building Code Specialists NC Firm License No: P-0298</small>	SHEET TITLE: LIFE SAFETY FLOOR PLAN		LS-2	
	<small>TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150</small>			<small>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA</small>
	DES: GMM	INTERIOR/EXTERIOR REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA		
	DR: ANP			
	CHK: JLL			
	SUBMITTED BY:			
DESIGN DIR:	DATE:	SIZE: F	CODE IDENT. NO.: 80091	NAVFAC DRAWING NO.: 60024502
SATISFACTORY TO:	DATE:	SCALE: NOTED	SPEC: 05-19-0025	CONST. CONTR. NO.: N40085-19-B-0025
				SHEET 3 OF 59

REVISIONS		
SYMBOL	DATE	APPROVED



**HAZARDOUS MATERIALS
ROOF PLAN M131** 2
1/8" = 1'-0" H1|H1

**ASBESTOS CONTAINING MATERIALS (ACM)
NOTES INDICATED ON PLAN**

THE FOLLOWING MATERIALS HAVE BEEN DETERMINED TO CONTAIN ASBESTOS OR ARE ASSUMED TO CONTAIN ASBESTOS PER THE AVAILABLE DATA AND IN ACCORDANCE WITH APPLICABLE REGULATIONS. LOCATIONS AND QUANTITIES ARE APPROXIMATE. SEE TESTING REPORTS INCLUDED IN PROJECT SPECIFICATIONS.

- ① EXTERIOR - ROOF - AT REAR DORMER WHERE STEAM PIPES ENTER ROOF. BLACK SEALANT.
APPROXIMATE QUANTITY = 15 SQUARE FEET

NOTE THAT BASE ACM REPORT TEXT INDICATES THAT MATERIALS THAT WERE PREVIOUSLY SHOWN AS ACM HAVE BEEN REMOVED, BUT THE BASE FLOOR PLAN FIGURE STILL INDICATES ACM AT THOSE LOCATIONS. FOR THIS PROJECT, TESTING BY ALLED CONSULTING AND ENVIRONMENTAL SERVICES WAS PERFORMED ON MARCH 12, 2019. THE SAMPLES TESTED AT THAT TIME DID NOT CONTAIN ASBESTOS. THE TEST RESULTS CONFIRMED THE BASE REPORT TEXT STATING THAT ACM HAS BEEN REMOVED EXCEPT WHERE NOTED OTHERWISE.

ROOF, MAIN FLOOR, AND ROOF WERE TESTED FOR ACM. CERTAIN INFERENCES HAVE BEEN MADE TO MAKE THE SCOPE OF ACM REMOVAL AS COMPLETE AS POSSIBLE. IF CONTRACTOR ENCOUNTERS MATERIALS THAT ARE SUSPECT ACM THAT ARE NOT INDICATED HEREIN OR IN THE AVAILABLE REPORTS, CONTACT CONTRACTING OFFICER BEFORE PROCEEDING.

LEAD BASED PAINT SURFACES (LBP) NOTES

THE FOLLOWING SURFACES HAVE BEEN DETERMINED TO HAVE LEAD OR LEAD BASED PAINT (LBP) OR ARE ASSUMED TO CONTAIN LBP BASED ON THE SAMPLE AREAS TESTED. SEE TESTING REPORTS INCLUDED IN PROJECT SPECIFICATIONS.

BLDG M131 - EXTERIOR PAINT ON WOOD SURFACES AT EXTERIOR SURFACES OF EXPOSED RAFTERS, EAVES, FASCIA, AND SOFFITS AROUND PERIMETER OF BUILDING ROOF - WHITE
APPROXIMATE QUANTITY = 464 LINEAR FEET OF SOFFIT AND 750 SQUARE FEET OF SOFFIT - SEE PLANS

BLDG M170 - EXTERIOR PAINT ON WOOD SURFACES AT EXTERIOR SURFACES OF EXPOSED RAFTERS, EAVES, FASCIA, AND SOFFITS AROUND PERIMETER OF BUILDING ROOF - WHITE/GRAY
APPROXIMATE QUANTITY = 55 LINEAR FEET OF SOFFIT AND 75 SQUARE FEET OF SOFFIT - SEE PLANS

DUE TO THE AGE OF THE BUILDING, IN ADDITION TO THE SPECIFIC ITEMS NOTED, TAKE PRECAUTIONS WHEN DISTURBING PAINTED SURFACES THE SAME AS IF SURFACE MIGHT HAVE LBP. TAKE PRECAUTIONS WHENEVER WORK ACTIVITIES WILL CREATE A PAINT DUST.

NOTE THAT PAINT COLORS LISTED ABOVE ARE THOSE VISIBLE AND ARE LISTED FOR CONVENIENCE ONLY. THE ACTUAL LAYER CONTAINING LBP MAY BE BELOW THE VISIBLE LAYER OF PAINT.

ACM ABATEMENT AND LBP REMOVAL NOTES

ACM: REMOVE ACM ENTIRELY. IT IS GOVERNMENT'S INTENT THAT THE BUILDING IS ASBESTOS FREE AT COMPLETION OF PROJECT. DISPOSE OF PROPERLY.

LBP: WHERE WORK IN PROJECT DISTURBS SURFACES WITH LBP OR WHERE ITEMS WITH LBP ARE TO BE REMOVED, TAKE PRECAUTIONS AS SPECIFIED, AS REQUIRED FOR WORKER AND OCCUPANT SAFETY, AND AS REQUIRED BY APPLICABLE REGULATIONS AND AGENCIES HAVING JURISDICTION. ITEMS AND MATERIALS TO BE REMOVED THAT ARE IDENTIFIED TO HAVE LBP SHALL BE REMOVED INTACT OR AS UNITS AND PROPERLY DISPOSED. LBP IN GOOD CONDITION ON SURFACES THAT ARE NOT DISTURBED OR REMOVED MAY REMAIN.

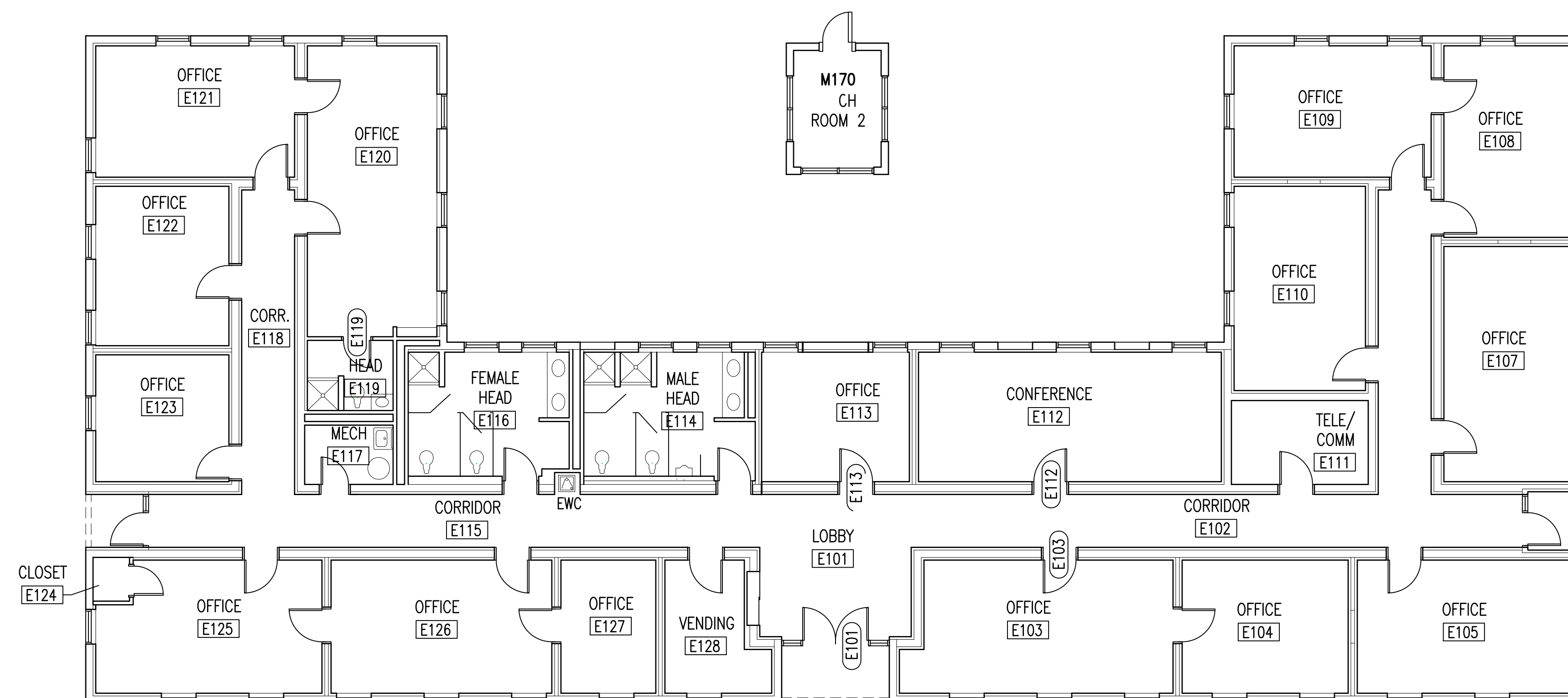
ACM & LBP: INFORMATION SHOWN ON DRAWINGS IS AN INTERPRETATION OF THE TESTING DATA AVAILABLE. QUANTITIES SHOWN MAY VARY FROM REPORT DOCUMENTS. CONTRACTORS ARE REQUIRED TO REVIEW REPORTS PROVIDED AND VERIFY THE CONCLUSIONS SHOWN THEREIN OR TO DRAW THEIR OWN CONCLUSIONS BASED ON THE REPORTS AND THEIR OWN KNOWLEDGE AND EXPERIENCE. NO ADJUSTMENTS WILL BE MADE FOR COSTS THAT COULD HAVE BEEN DETERMINED FROM REPORTS, DRAWINGS, AND OTHER AVAILABLE INFORMATION.

PCB & MERCURY REMOVAL NOTES

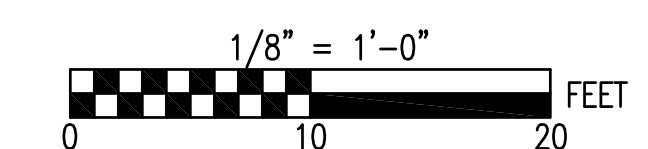
REFERENCE ELECTRICAL AND MECHANICAL SHEETS INDICATING REMOVAL OF FLUORESCENT LIGHT FIXTURES AND HEATING THERMOSTATS. THE BALLASTS SHALL BE TREATED AS CONTAINING PCB AND THE LAMPS AS CONTAINING MERCURY. THERMOSTATS SHALL BE TREATED AS CONTAINING MERCURY. BALLASTS, LAMPS, AND THERMOSTATS SHALL BE DISPOSED OF ACCORDING TO SPECIFICATIONS AND BASE ENVIRONMENTAL MANAGEMENT DIVISION GUIDELINES.

GENERAL HAZARDOUS MATERIALS DRAWING NOTE

HAZARDOUS MATERIALS PLANS ARE NOT INTENDED TO BE AN ALL INCLUSIVE REPRESENTATION OF THE SCOPE OF HAZARDOUS MATERIALS. REFER TO OTHER DRAWINGS TO BETTER UNDERSTAND THE BUILDING AND SCOPE OF MATERIALS.

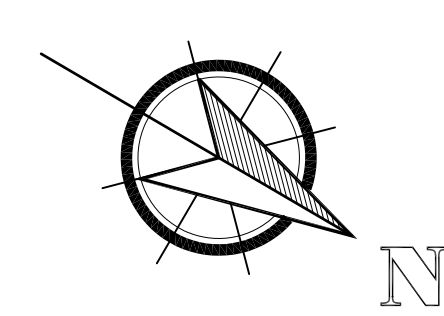


**HAZARDOUS MATERIALS
MAIN FLOOR PLAN M131** 1
1/8" = 1'-0" H1|H1



SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

	SHEET TITLE: HAZARDOUS MATERIALS PLANS		H-1
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150		
	DES. Robert L. Smith III DR. Steven C. Fender CHK. Robert L. Smith III		INTERIOR/EXTERIOR REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA
	SUBMITTED BY: DESIGN DIR. APPROVED:	DATE:	SIZE: F CODE IDENT. NO.: 80091
SATISFACTORY TO:	DATE:	SCALE: NOTED	SPEC. 05-19-0025 SHEET 4 OF 59



REVISIONS		
SYM	DATE	APPROVED



CIVIL LEGEND		
EXISTING	DESCRIPTION	NEW
⊗	WATER VALVE	
⊗	POST INDICATOR VALVE	
⊗	SANITARY SEWER MANHOLE	
⊗	COMMUNICATIONS MANHOLE	
⊗	SANITARY SEWER CLEANOUT	
⊗	STORM DRAIN DROP INLET	
⊗	FIRE HYDRANT	
⊗	COMMUNICATIONS PEDESTAL	
⊗	UTILITY POLE/POLE WITH LIGHT	
⊗	GUY WIRE	
—OHS—	OVERHEAD STEAM	
—S—	SANITARY SEWER (GRAVITY)	
—FM—	SANITARY FORCE MAIN	
—D—	STORM SEWER	
—W—	DOMESTIC WATER	
—FW—	FIRE WATER	
—OHE—	OVERHEAD ELECTRICAL	
—UCE—	UNDERGROUND ELECTRICAL	
—UCC—	UNDERGROUND COMMUNICATIONS	
▭	CONCRETE	
▭	ASPHALT	
▭	GRAVEL	
⊕	SURVEY CONTROL POINT	
⊕	SPOT ELEVATIONS	
—	TREE LINE / CLEARING LIMIT	
—	SOURCE/DESTINATION UNKNOWN	
⊕	SIGN	
⊗	DEMOLITION ITEMS	

ABBREVIATIONS	
APPROX.	APPROXIMATE/APPROXIMATELY
CJ	CONTRACTION JOINT
CL, C/L	CENTER LINE
CF	CUBIC FEET
CONT.	CONTINUOUS
CMP	CORRUGATED METAL PIPE
CONC.	CONCRETE
CPP	CORRUGATED PLASTIC PIPE
CUMM.	CUMULATIVE
DI, Ø	DIAMETER
DI	(STORM DRAIN) DROP INLET
DMH	DRAINAGE MANHOLE
EL=, ELEV	ELEVATION
E	EASTING
ELEC.	ELECTRIC; ELECTRICAL
ETC.	ET CETERA
EX., EXIST.	EXISTING
FES	FLARED END SECTION
FH	FIRE HYDRANT
HVAC	HEATING, VENTILATION AND AIR CONDITIONING (EQUIPMENT)
INVERT	INVERT
INV	MAG NAIL (CONTROL)
MAG	MAXIMUM
MIN	MINIMUM
N	NORTHING
NO./#	NUMBER
PIV	POST INDICATOR VALVE
PVC	POLYVINYL CHLORIDE (PIPE)
RCP	REINFORCED CONCRETE PIPE
SMH	SANITARY SEWER MANHOLE
SF	SQUARE FOOT/FEET
SILT	SILT FENCE
TBM	TEMPORARY BENCHMARK
TYP.	TYPICAL
VOL	VOLUME
WWF	WELDED WIRE FABRIC
&	AND
@	AT
±	PLUS OR MINUS
%	PERCENT
=	EQUALS

- GENERAL CONSTRUCTION NOTES:**
1. THE LOCATION AND DEPTHS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR WILL BE RESPONSIBLE FOR SCANNING THE AREA OF WORK TO IDENTIFY TO HIS OWN SATISFACTION THE EXTENT OF UTILITIES PRESENT INCLUDING THE UTILITIES INDICATED TO BE PRESENT, THOSE NOT SHOWN, AND THOSE SHOWN TO BE IN A DIFFERENT LOCATION.
 2. PHYSICAL SITE FEATURES OUTSIDE THE AREA OF WORK OR THOSE FEATURES NOT RELEVANT TO THE WORK BEING PERFORMED ARE NOT SHOWN FOR CLARITY.
 3. ALL EXISTING VEGETATED AREAS DISTURBED DURING CONSTRUCTION MUST BE REVEGETATED IN ACCORDANCE WITH THE PROJECT VEGETATION PLAN, SEE DETAIL D, SHEET C-3.

- DEMOLITION WORK ITEMS (THIS SHEET):**
- 1 REMOVE BUILDING M170, EQUIPMENT WITHIN, AND SERVICE LINES/PIPING TO BUILDING M131 - SEE ARCHITECTURAL AND MECHANICAL PLANS.
 - 2 REMOVE GENERATOR, CONCRETE PAD, TRANSFER SWITCH, AND UNDERGROUND SERVICE LINES TO BUILDING M131 - SEE SITE ELECTRICAL PLANS.
 - 3 REMOVE CONCRETE PAD.
 - 4 REMOVE HVAC EQUIPMENT AND CONCRETE PAD - SEE MECHANICAL PLANS.
 - 5 REMOVE GAS SERVICE FROM BUILDING M170. COORDINATE RECONFIGURATION WITH UTILITY PURVEYOR - SEE MECHANICAL PLANS.
 - 6 REMOVE EXERCISE EQUIPMENT.
 - 7 REMOVE OVERHEAD STEAM LINES AND SUPPORT POLES TO POINT SHOWN.
 - 8 REMOVE ANTENNA STRUCTURE SM71 AND OVERHEAD SERVICE TO BUILDING.
 - 9 INSTALL GRAVEL CONTROL ENTRANCE. SEE DETAIL A, SHEET C-3.
 - 10 INSTALL SILT FENCE. SEE DETAIL B, SHEET C-3.
 - 11 REMOVE EXISTING TREE/BUSH.
 - 12 REMOVE EXISTING LANDSCAPE WALL AND PLANTING MATERIALS TO ALLOW INSTALLATION OF NEW CONCRETE WALK AND FLAG POLE FOUNDATION. SEE DETAIL E, SHEET C-3.
 - 13 REMOVE EXISTING FLAG POLE AND CONCRETE. SEE DETAIL E, SHEET C-3.

DISCLOSURE OF INFORMATION

THE CONTRACTOR SHALL COMPLY AS FOLLOWS:

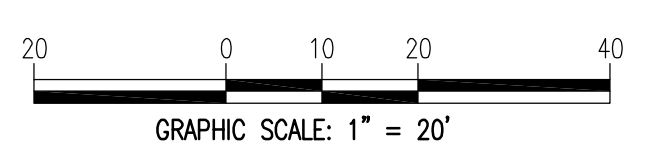
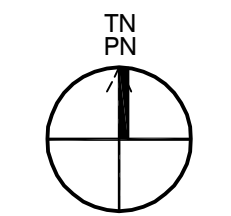
A. THE CONTRACTOR SHALL NOT RELEASE TO ANYONE OUTSIDE THE CONTRACTOR'S ORGANIZATION ANY UNCLASSIFIED INFORMATION, REGARDLESS OF THE MEDIUM (E.G. FILM, TAPE, DOCUMENT), PERTAINING TO ANY PART OF THIS CONTRACT OR ANY PROGRAM RELATED TO THIS CONTRACT, UNLESS

1. THE CONTRACTING OFFICER HAS GIVEN PRIOR WRITTEN APPROVAL; OR
2. THE INFORMATION IS OTHERWISE IN THE PUBLIC DOMAIN BEFORE THE DATE OF RELEASE.

B. REQUESTS FOR APPROVAL SHALL IDENTIFY THE SPECIFIC INFORMATION TO BE RELEASED, THE MEDIUM TO BE USED, AND THE PURPOSE FOR THE RELEASE. THE CONTRACTOR SHALL SUBMIT ITS REQUEST TO THE CONTRACTING OFFICER AT LEAST 45 DAYS BEFORE THE PROPOSED DATE OF RELEASE.

C. THE CONTRACTOR AGREES TO INCLUDE A SIMILAR REQUIREMENT IN EACH SUBCONTRACT UNDER THIS CONTRACT. SUBCONTRACTORS SHALL SUBMIT REQUESTS FOR AUTHORIZATION TO RELEASE THROUGH THE PRIME CONTRACTOR TO THE CONTRACTING OFFICER.

SITE PLAN - EXISTING CONDITIONS AND DEMOLITION
 SCALE: 1" = 20'



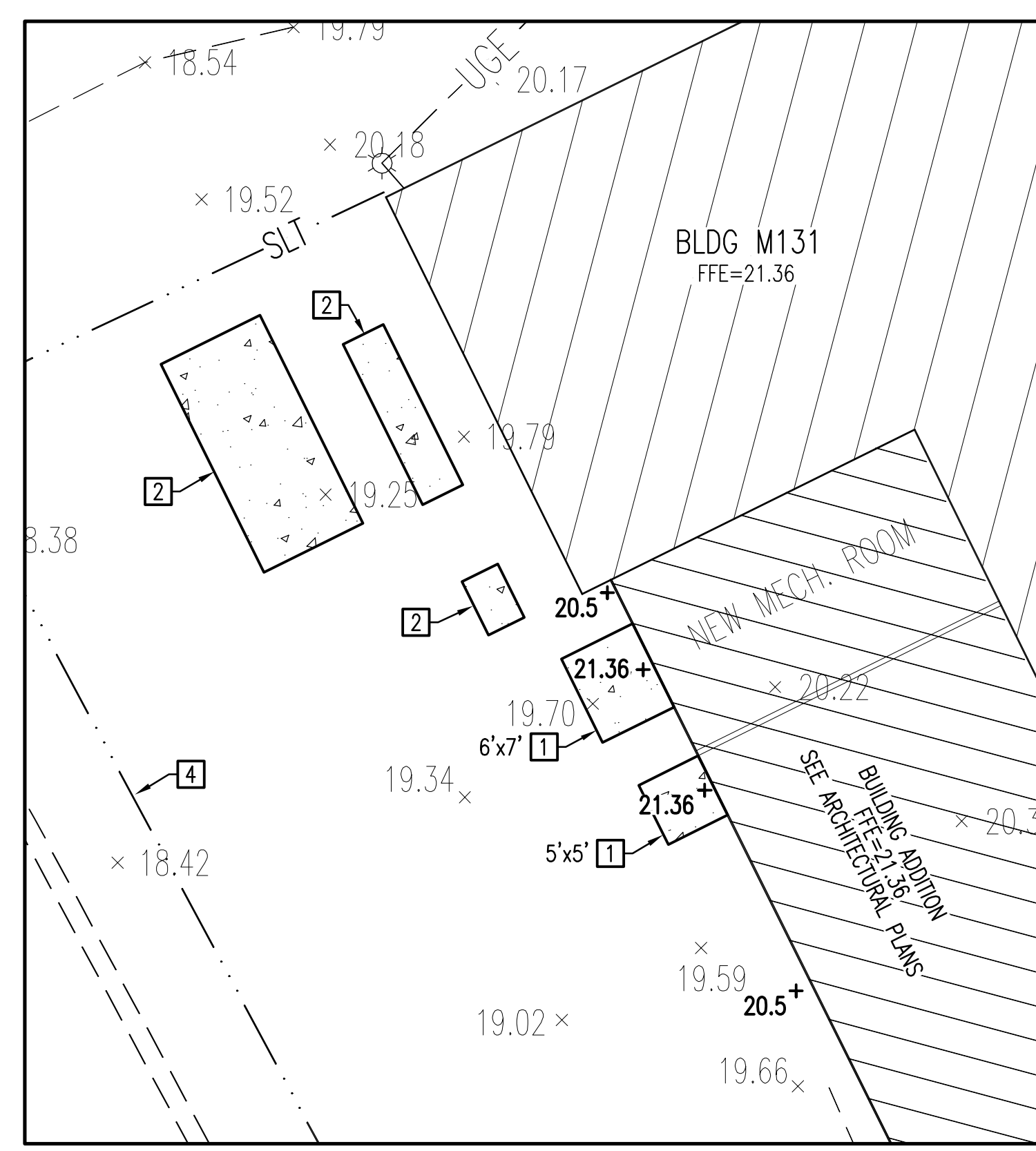
SITE MAPPING AND SITE DESIGN BY:
AVOLIS ENGINEERING, P.A.
 P.O. BOX 19584
 NEW BERN, NC 28561
 (252) 633-0068 LICENSE NO. C-0706

	SHEET TITLE: SITE PLAN - EXISTING CONDITIONS AND DEMOLITION		C-1
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150		
DES. J. K. AVOLIS, P.E. DIR. MSP / WFF CHK. J. C. AVOLIS, P.E. SUBMITTED BY: DESIGN DIR. T. H. BURTON, P.E.		DEPARTMENT OF THE NAVY - NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA INTERIOR AND EXTERIOR REPAIRS, BLDG M131 CAMP LEJEUNE, NORTH CAROLINA	
APPROVED: PWO OR DICC SATISFACTORY TO:		DATE: _____ DATE: _____	SIZE: F CODE IDENT. NO: 80091 NAVFAC DRAWING NO: 60024504 CONSTR. CONTR. NO. N40085-19-B-0025
SCALE: NOTED		SPEC: 05-19-0025	SHEET 5 OF 59

REVISIONS		DATE	APPROVED
SYM			



- GENERAL CONSTRUCTION NOTES:**
- THE LOCATION AND DEPTHS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR WILL BE RESPONSIBLE FOR SCANNING THE AREA OF WORK TO IDENTIFY TO HIS OWN SATISFACTION THE EXTENT OF UTILITIES PRESENT INCLUDING THE UTILITIES INDICATED TO BE PRESENT, THOSE NOT SHOWN, AND THOSE SHOWN TO BE IN A DIFFERENT LOCATION.
 - PHYSICAL SITE FEATURES OUTSIDE THE AREA OF WORK OR THOSE FEATURES NOT RELEVANT TO THE WORK BEING PERFORMED ARE NOT SHOWN FOR CLARITY.
 - ALL EXISTING VEGETATED AREAS DISTURBED DURING CONSTRUCTION MUST BE REVEGETATED IN ACCORDANCE WITH THE PROJECT VEGETATION PLAN, SEE DETAIL D, SHEET C-3.
- SPECIFIC WORK ITEMS—THIS SHEET:**
- CONCRETE SIDEWALK, SIZE AS INDICATED - SEE DETAIL C, SHEET C-3.
 - CONCRETE EQUIPMENT PAD - SEE MECHANICAL/ELECTRICAL PLANS.
 - INSTALL GRAVEL CONTROL ENTRANCE. SEE DETAIL A, SHEET C-3.
 - INSTALL SILT FENCE. SEE DETAIL B, SHEET C-3.
 - GRADE THIS AREA TO FINISH GRADES SHOWN, TO REMOVE IRREGULARITIES AND CREATE POSITIVE DRAINAGE.
 - FLAG POLE (HEIGHT AS INDICATED) AND CONCRETE FOUNDATION. SEE DETAIL E, SHEET C-3.
 - CONCRETE FLAG POLE WALKWAY. SEE DETAIL E, SHEET C-3.



ENLARGED VIEW - GRADING AT NEW ADDITION
SCALE: 1" = 10'

DISCLOSURE OF INFORMATION

THE CONTRACTOR SHALL COMPLY AS FOLLOWS:

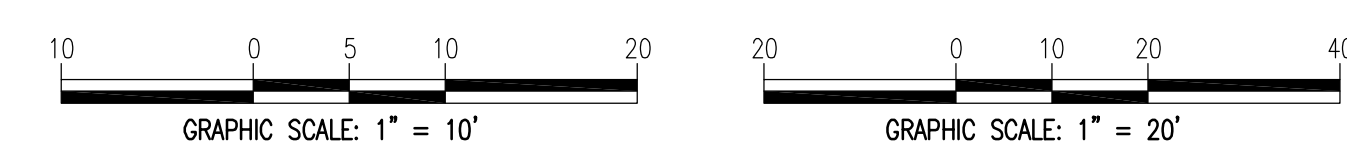
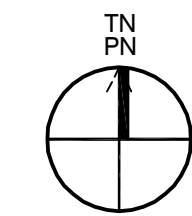
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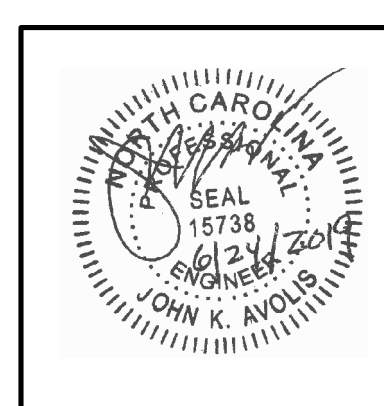
B. REQUESTS FOR APPROVAL SHALL IDENTIFY THE SPECIFIC INFORMATION TO BE RELEASED, THE MEDIUM TO BE USED, AND THE PURPOSE FOR THE RELEASE. THE CONTRACTOR SHALL SUBMIT ITS REQUEST TO THE CONTRACTING OFFICER AT LEAST 45 DAYS BEFORE THE PROPOSED DATE OF RELEASE.

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SITE PLAN - LAYOUT AND GRADING
SCALE: 1" = 20'

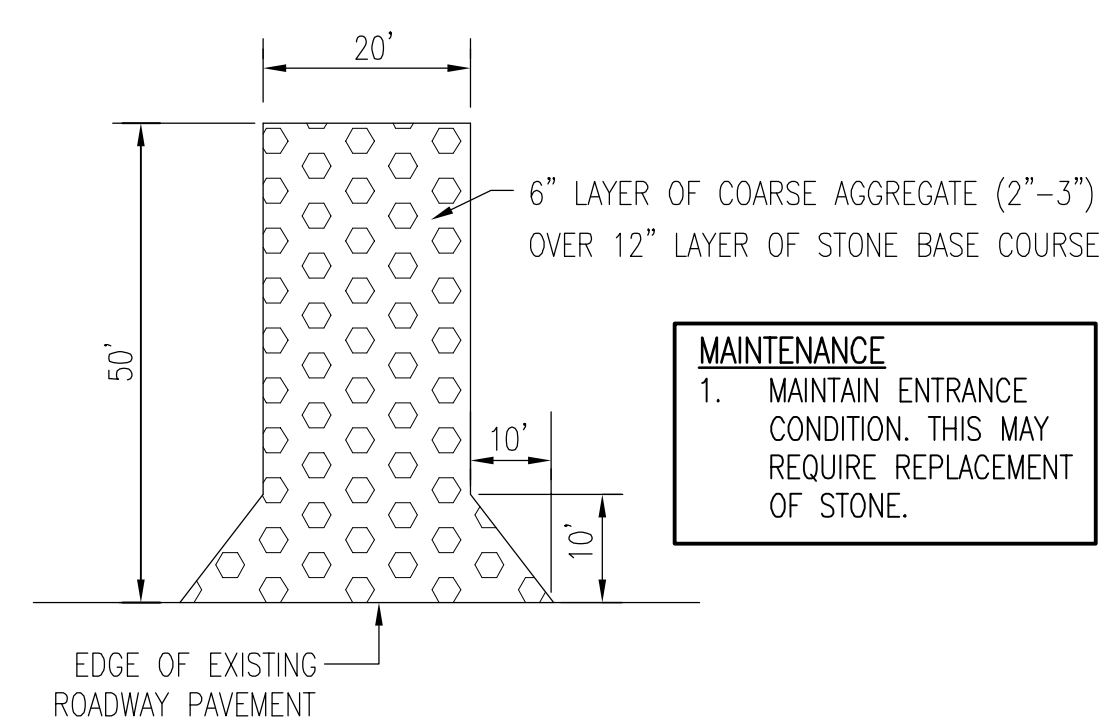


SITE MAPPING AND SITE DESIGN BY:
AVOLIS ENGINEERING, P.A.
P.O. BOX 19584
NEW BERN, NC 28561
(252) 633-0068 LICENSE NO. C-0706



SHEET TITLE:		C-2	
SITE PLAN - LAYOUT AND GRADING			
TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJUNE, NORTH CAROLINA	
DES. J. K. AVOLIS, P.E. DIR. MSP / WFF CHK. J. C. AVOLIS, P.E. SUBMITTED BY: DESIGN DIR. T. H. BURTON, P.E.		INTERIOR AND EXTERIOR REPAIRS, BLDG M131 CAMP LEJUNE, NORTH CAROLINA	
APPROVED: PWO OR DICC	DATE	SIZE: F	CODE IDENT. NO: 80091
SATISFACTORY TO:	DATE	NAVFAC DRAWING NO. 60024505	CONSTR. CONTR. NO. N40085-19-B-0025
		SCALE: NOTED	SPEC: 05-19-0025
		SHEET 6 OF 59	

REVISIONS		
SYM	DATE	APPROVED



A GRAVEL CONTROL ENTRANCE
NOT TO SCALE

TEMPORARY VEGETATIVE SEEDING
(PRIOR TO ESTABLISHING PERMANENT VEGETATION)

AFTER COMPLETION OF GRADING ACTIVITIES AND THE CONSTRUCTION OF SWALES, ALL EXPOSED AREAS MUST BE SEED TO THE FOLLOWING SPECIFICATIONS:

SEED BED
LIME 1-1/2 TON PER ACRE
FERTILIZER 1/2-TON PER ACRE

SEED
RYE GRAIN 50 LBS PER ACRE
TALL FESCUE 100 LBS PER ACRE

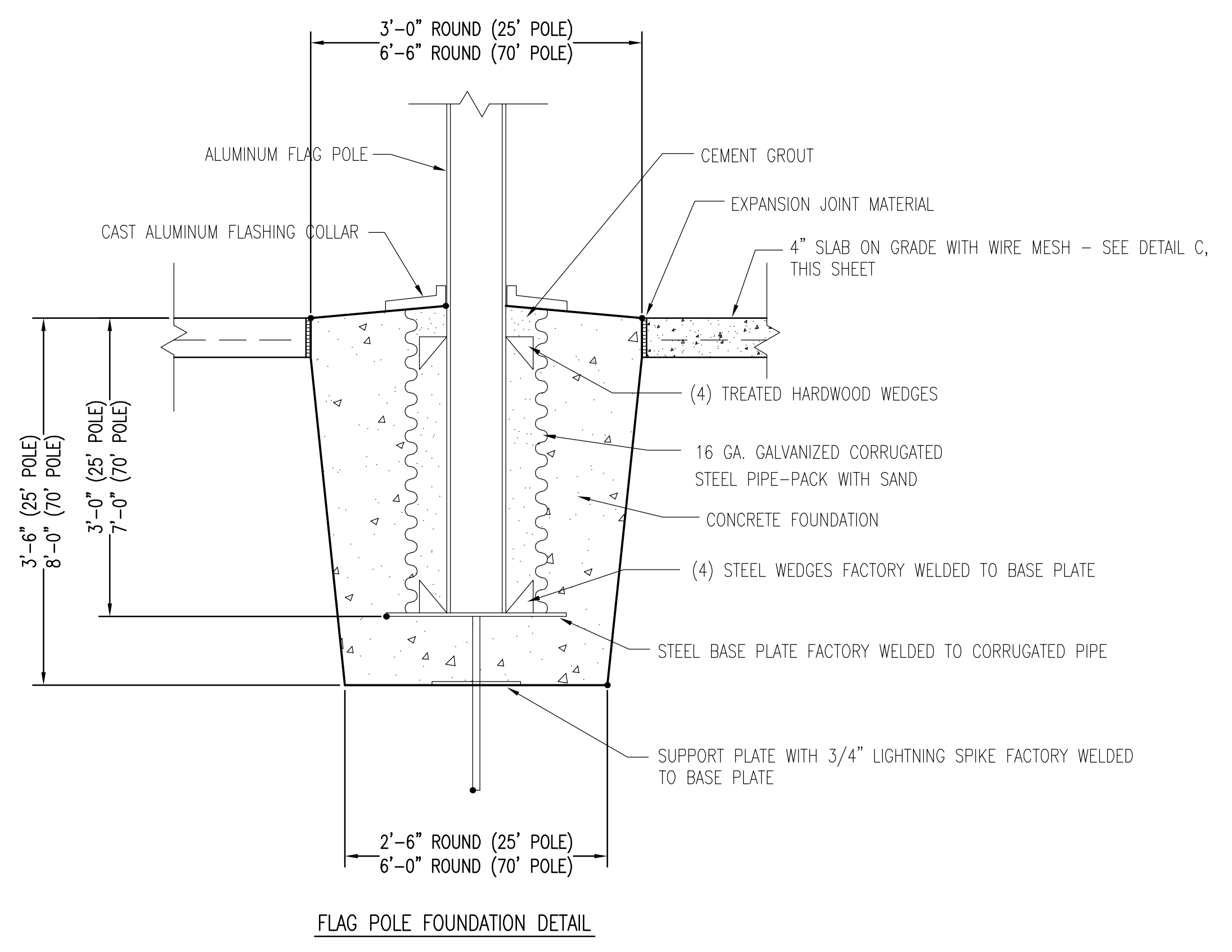
SUPPLEMENTAL SEED
MAY THROUGH AUGUST:
CENTIPEDE 5 LBS PER ACRE

PROCEDURE
STRAW MULCH MUST BE APPLIED AT A RATE WHICH WILL INSURE APPROXIMATELY 75% COVERAGE OF THE SEED AREA. THE STRAW AND SOWN SEED WILL BE LIGHTLY DISCED INTO THE BED TO GIVE IT FURTHER RESISTANCE TO BLOWING AND WASHING. THE CONTRACTOR MUST GUARANTEE A FULL STAND OF GRASS OVER THE ENTIRE DISTURBED AREA. IF NECESSARY THE CONTRACTOR WILL WET DOWN THE AREAS TO ASSIST IN SEED GERMINATION OR AID IN GROWTH IN TIMES OF EXCESSIVELY DRY WEATHER. A STAND OF GRASS WILL BE CONSIDERED ACCEPTABLE WHEN THE ENTIRE STAND OF GRASS IS AT LEAST FOUR INCHES HIGH AND HAS ACHIEVED AT LEAST 95% COVERAGE OF DISTURBED AREAS. RESEEDING WILL BE REQUIRED AS NECESSARY BY THE CONTRACTOR TO OBTAIN THE SPECIFIED STAND OF GRASS.

PERMANENT VEGETATION
ALL DISTURBED AREAS NOT COVERED WITH BUILDINGS, PAVEMENTS, OR OTHER IMPERMEABLE SURFACES MUST BE SODDED WITH CENTIPEDE SOUD SOD AS THE FINAL/PERMANENT VEGETATION.

SPECIAL SEEDING NOTE:
ALL DENUED AREAS WILL, WITHIN 7 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING OR CEASING OF GRADING ACTIVITIES, BE PLANTED AND PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION.

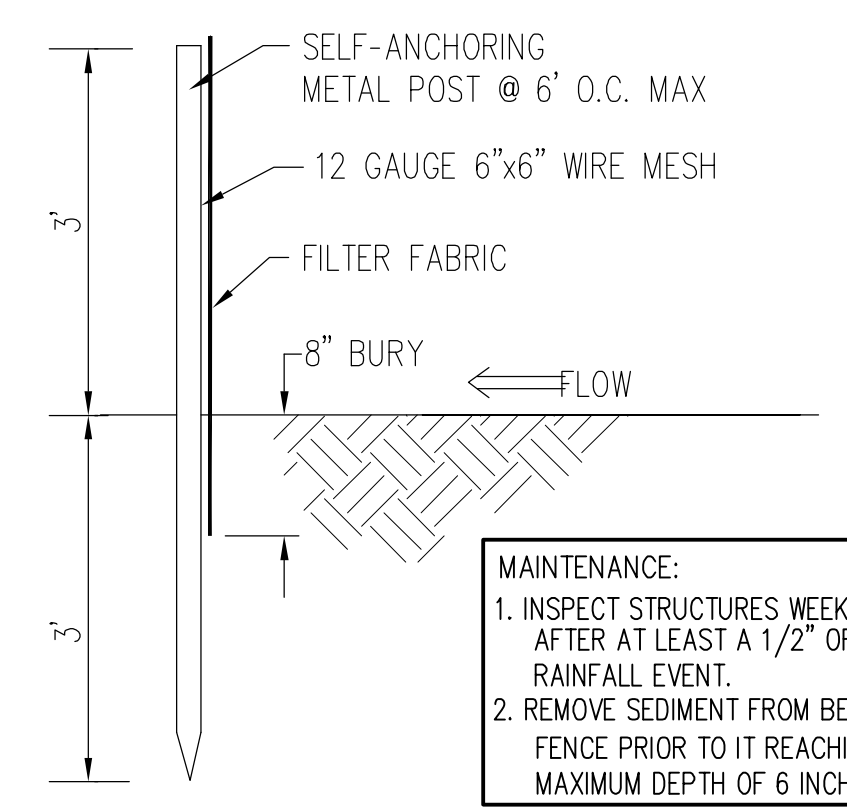
ALL DENUED AREAS WILL, WITHIN 7 DAYS OF COMPLETION OF CONSTRUCTION, BE PROVIDED PERMANENT GROUND COVER.



FLAG POLE FOUNDATION DETAIL

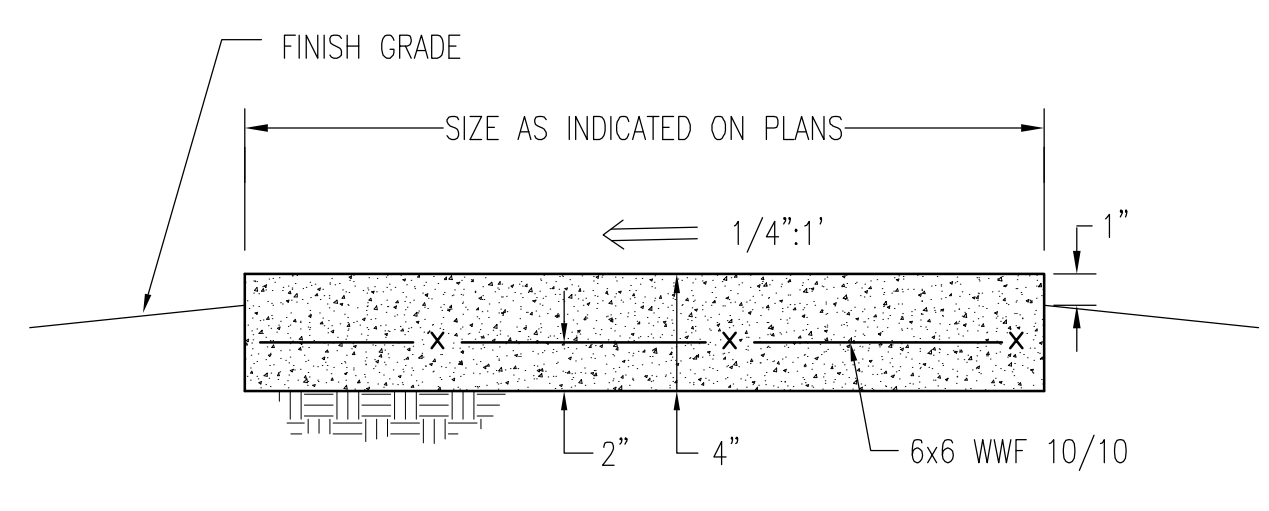
- FLAG POLE GENERAL NOTES:**
1. PROVIDE 14 GAUGE GOLD ANODIZED SPUN BALL - 25' POLE 6" - 70' POLE 12".
 2. BOTH POLES, PROVIDE DOUBLE SHEAVE TRUCK, NON-FOULING TYPE.
 3. BOTH POLES, 2 BRONZE SWIVEL SNAPS WITH COVERS PER HALYARD.
 4. BOTH POLES, 2 HALYARDS - 25' POLE #10 POLY - 70' POLE #12 POLY.
 5. BOTH POLES, 2 - 9" ALUMINUM CLEATS WELDED TO POLE.

FLAG POLE SPECIAL NOTE:
THIS DETAIL DEPICTS MINIMUM FOUNDATION REQUIREMENTS. THE CONTRACTOR MUST PROVIDE A FOUNDATION IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION IN A 130MPH (3-SECOND GUST) WIND ZONE.

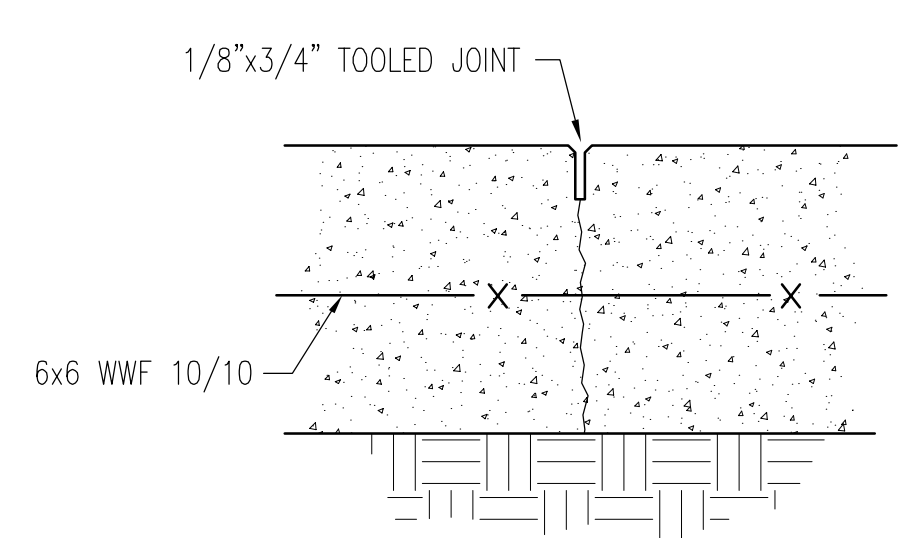


B SILT FENCE
NOT TO SCALE

D VEGETATION PLAN
NOT TO SCALE



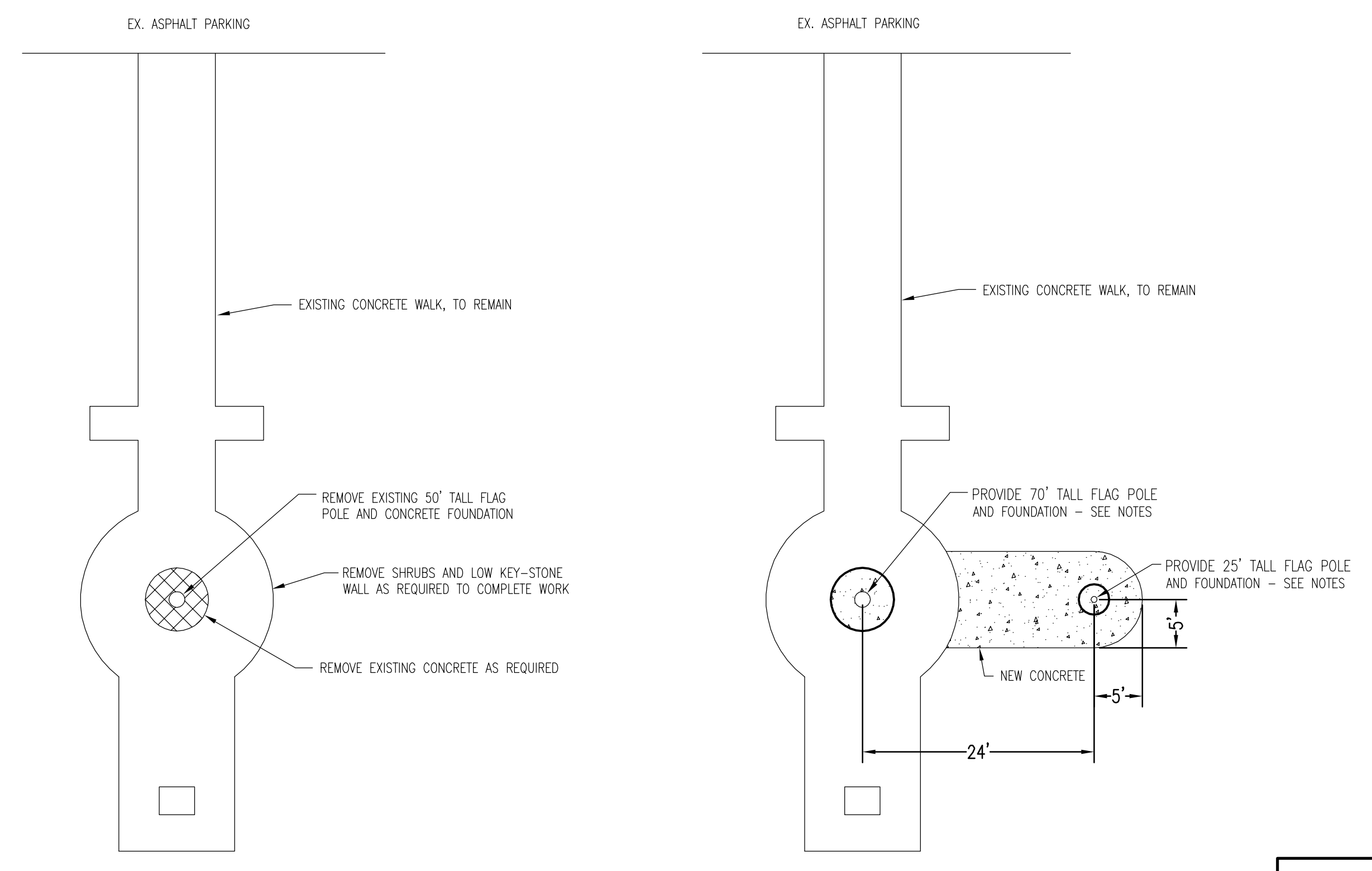
SECTION



CONSTRUCTION JOINT (CJ)

- NOTES:**
1. PROVIDE EXPANSION JOINTS ALONG ALL EXISTING STRUCTURES AND WALKS AND AT 20' INTERVALS ALONG STRAIGHT SECTIONS OF WALK.
 2. PROVIDE TOOLED CONSTRUCTION JOINTS AT 5'-0" INTERVALS AND AT ALL CHANGES IN DIRECTION OF WALK. TOOLED CONSTRUCTION JOINTS SHALL BE 1/8" WIDE X 3/4" DEEP.
 3. SUBGRADE SHALL BE WETTED IMMEDIATELY PRIOR TO PLACING CONCRETE, OR PROVIDE POLYETHYLENE SHEETING ON GROUND SURFACE BELOW CONCRETE.
 4. PROVIDE FLOATED SURFACE WITH LIGHT BROOM FINISH.
 5. PROTECT WORK IN PLACE FROM VANDALISM, GRAFFITI, ETC... UNTIL CONCRETE IS SUFFICIENTLY DRY.

C CONCRETE SIDEWALK
NOT TO SCALE



EXISTING FLAG POLE PLAN

RENOVATED FLAG POLE PLAN

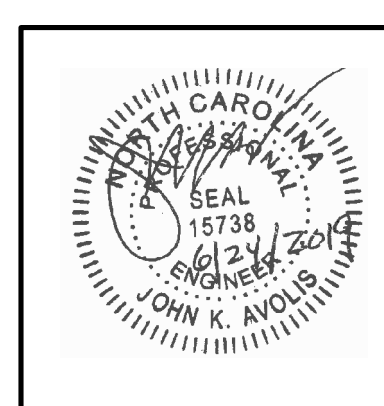
NOTE:
FLAG POLES MUST BE RATED FOR INSTALLATION IN A 130MPH (3-SECOND GUST) WIND ZONE.

E FLAG POLE AND FOUNDATION DETAILS
NOT TO SCALE

DISCLOSURE OF INFORMATION

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SITE MAPPING AND SITE DESIGN BY:
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P.O. BOX 15584
NEW BERN, NC 28561
(252) 633-0068 LICENSE NO. C-0706

SHEET TITLE:		DETAILS		C-3	
TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150		DEPARTMENT OF THE NAVY - NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
DES. J. K. AVOLIS, P.E. DR. MSP / WFF CHK. J. C. AVOLIS, P.E. SUBMITTED BY: DESIGN DIR. T. H. BURTON, P.E.		INTERIOR AND EXTERIOR REPAIRS, BLDG M131 CAMP LEJEUNE, NORTH CAROLINA			
APPROVED: PWO OR DICC	DATE	SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.	
SATISFACTORY TO:	DATE	F	80091	60024506	
		SCALE: NOTED	SPEC: 05-19-0025	CONSTR. CONTR. NO. N40085-19-B-0025	
				SHEET 7 OF 59	

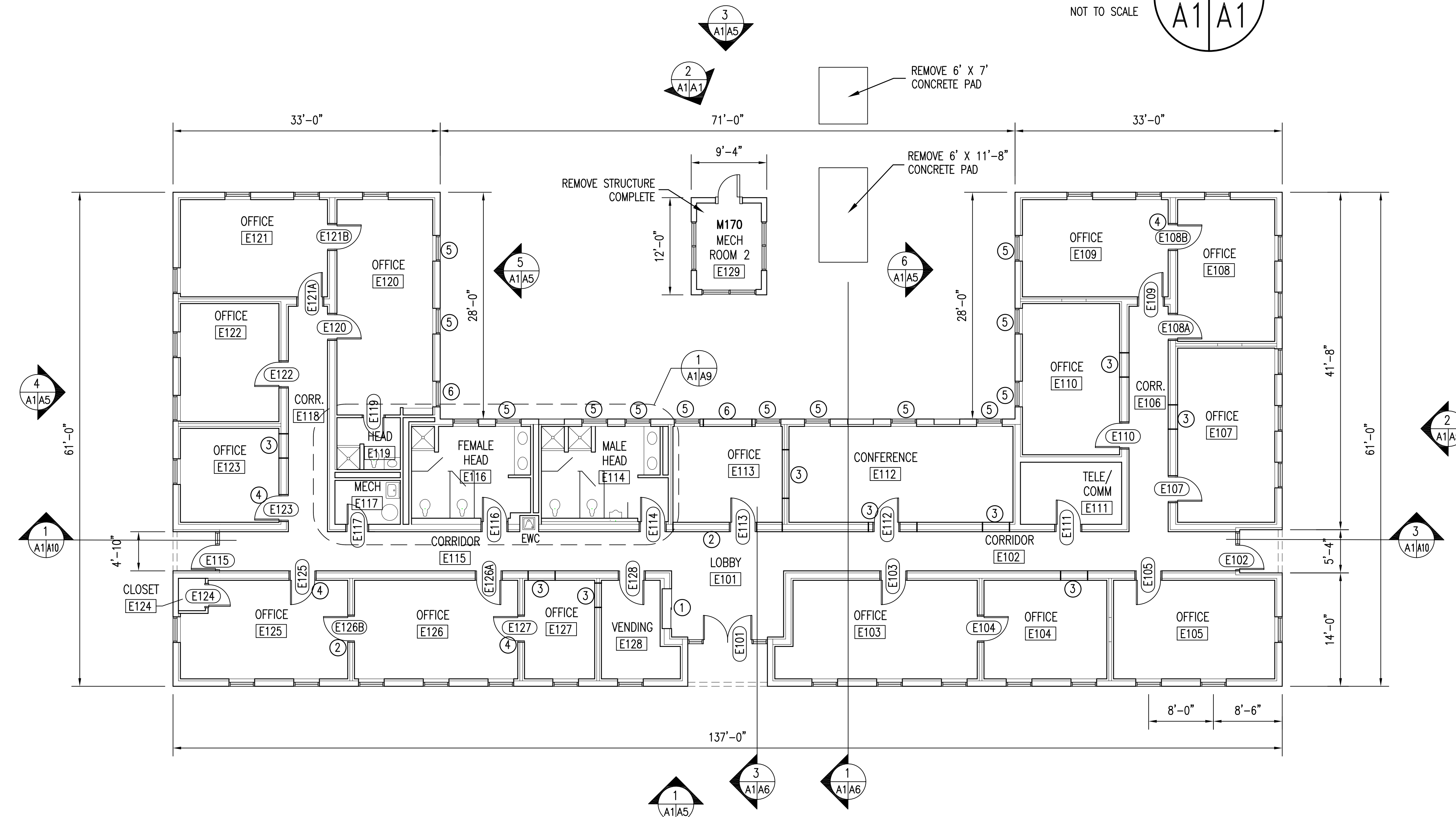
REVISIONS		
SYMBOL	DATE	APPROVED

GENERAL NOTES:

- DIMENSIONS ON PLANS ARE APPROXIMATE. VERIFY DIMENSIONS ON JOB.
- NOTING CONVENTION ON PLANS AND DETAILS: ON PLANS AND DETAILS TITLED AS "EXISTING CONDITIONS," ITEMS SHOWN AND NOTED ARE EXISTING UNLESS SPECIFICALLY INDICATED OTHERWISE. ON PLANS AND DETAILS TITLED AS "NEW" OR "RENOVATED CONDITIONS," ITEMS SHOWN AND NOTED ARE NEW OR ALTERED UNLESS SPECIFICALLY INDICATED OTHERWISE. TO DETERMINE FULL EXTENT OF WORK REQUIRED, COMPARE EXISTING CONDITIONS PLANS AND DETAILS TO NEW OR RENOVATED CONDITIONS PLANS AND DETAILS.
- THE WORDS "PAINT," "PAINTING," "REPAINT," OR "REFINISH" CARRY WITH THEM THE CONNOTATION THAT SURFACE PREPARATION, PRIMING (OR STAINING) AND NUMBER OF COATS OF PAINT (OR CLEAR FINISH) DESCRIBED IN THE SPECIFICATIONS ARE REQUIRED.
- PAINT COLORS SHALL BE AS STATED IN THE "INTERIOR COLOR SCHEDULE" INCLUDED IN THESE DRAWINGS. IF COLOR IS NOT STATED, COLOR SHALL BE SAME AS EXISTING. CONTRACTING OFFICER RESERVES THE RIGHT TO MAKE FINAL COLOR SELECTIONS.
- CAULKING/SEALANT IS REQUIRED AT ALL LOCATIONS PRESENTLY HAVING OR NORMALLY REQUIRING CAULKING/SEALANT INCLUDING BUT NOT NECESSARILY LIMITED TO: DOORS, WINDOWS, LOUVERS, VENTS, AND MASONRY CONTROL AND EXPANSION JOINTS.
- WHERE NEW WORK IS REQUIRED THAT WILL REPLACE EXISTING MATERIALS THE NEW WORK SHALL MATCH THE EXISTING AS CLOSELY AS POSSIBLE.
- CONDITIONS, DETAILS, AND AREAS OF WORK SHOWN ON THESE DRAWINGS ARE BASED ON FIELD INVESTIGATIONS AND SHOULD REPRESENT CURRENT CONDITIONS. IF CONDITIONS ARE ENCOUNTERED THAT ARE SIGNIFICANTLY DIFFERENT FROM THOSE SHOWN, IMMEDIATELY NOTIFY CONTRACTING OFFICER OF SUCH CONDITIONS PRIOR TO PROCEEDING WITH WORK IN THE AREA IN QUESTION. MINOR VARIATIONS WITH LITTLE IMPACT ON THE SCOPE OF WORK SHALL NOT BE CONSIDERED SIGNIFICANT.
- WHERE AN ITEM OR FEATURE IS SHOWN ON DRAWINGS THAT DEPICT EXISTING CONDITIONS, AND SUCH ITEM OR FEATURE IS NOT SHOWN ON DRAWINGS THAT DEPICT NEW OR ALTERED CONDITIONS, IT IS INFERRED THAT THE ITEM OR FEATURE IS TO BE REMOVED AS PART OF THIS WORK AND ALL SURFACES DISTURBED ARE TO BE NEATLY REPAIRED AND PATCHED TO MATCH EXISTING UNLESS INDICATED OTHERWISE. INCLUDE SUCH WORK IN BID PRICE.
- WHERE AN ITEM OR FEATURE IS TO BE REMOVED THE REQUIREMENT FOR REMOVAL INCLUDES THAT ALL RELATED APPURTENANCES ALSO BE REMOVED UNLESS INDICATED OTHERWISE. FOR EXAMPLE, WHERE AN EXISTING DOOR AND FRAME ARE TO BE REMOVED, THE HARDWARE, THRESHOLD, STOPS, ETC. ARE ALSO TO BE REMOVED.
- FOR EACH ACTIVITY THAT INVOLVES DISTURBANCE TO AN EXISTING SURFACE OR SURFACES, THE ACTIVITY CARRIES WITH IT THE STIPULATION THAT ALL DISTURBED SURFACES BE NEATLY REPAIRED AND PATCHED TO MATCH EXISTING. FOR EXAMPLE, WHERE INTERIOR PARTITIONS ARE REMOVED IT IS REQUIRED THAT ANY DISTURBED WALL, FLOOR, CEILING, TRIMS, BASE, ETC. THAT REMAINS BE NEATLY REPAIRED AND PATCHED TO MATCH EXISTING.
- IF EXISTING MATERIALS CANNOT BE REPAIRED AND PATCHED, NEW MATERIALS SHALL BE PROVIDED. WHERE NEW MATERIALS ARE REQUIRED TO BE BUILT INTO THE EXISTING STRUCTURE OR MATERIALS, OR BUILT ADJOINING EXISTING STRUCTURE OR MATERIALS, THE TEXTURE AND FINISH OF THE NEW MATERIAL SHALL MATCH THE EXISTING AND SHALL BE NEATLY BLENDED INTO THE EXISTING. ALIGN NEW MASONRY JOINTING, VERTICAL OR HORIZONTAL LINES, METAL WALL PANELS, ETC. WITH EXISTING.
- HOLES AND OTHER DAMAGE CAUSED BY TEMPORARY INSTALLATIONS, BARRIERS, ETC. SHALL BE REPAIRED IN A MANNER COMPATIBLE WITH AND EQUAL TO EXISTING CONDITIONS.
- WHERE NEW WORK IS REQUIRED AND DRAWINGS AND SPECIFICATIONS ARE NOT SPECIFIC AS TO TYPE AND QUALITY OF WORK, PROVIDE TYPE AND QUALITY EQUAL TO OR BETTER THAN CORRESPONDING WORK ON EXISTING BUILDING. IN THE ABSENCE OF ANY CORRESPONDING WORK ON EXISTING BUILDING, PROVIDE FIRST QUALITY INDUSTRY STANDARD COMPATIBLE TO EXISTING BUILDING. CONTRACTING OFFICER SHALL MAKE FINAL DETERMINATION OF WHETHER OR NOT CONTRACTOR'S PROPOSED WORK COMPLIES.
- GOVERNMENT WILL REMOVE INTERIOR BUILDING CONTENTS. GOVERNMENT WILL MOVE STORAGE UNITS AND EQUIPMENT A MINIMUM OF 10' AWAY FROM EXTERIOR PERIMETER OF BUILDING.



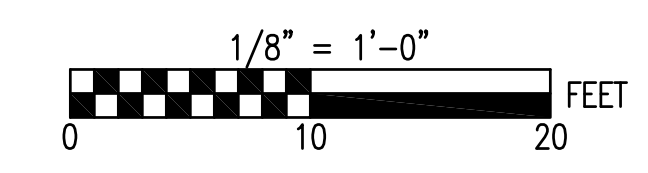
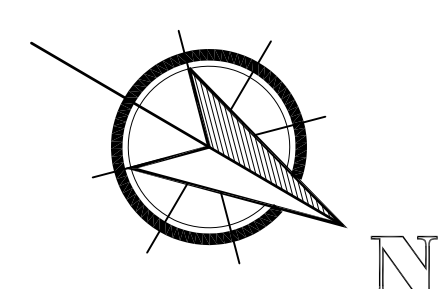
PHOTO 2
NOT TO SCALE
A1/A1



EXISTING CONDITIONS FLOOR PLAN M131
1/8" = 1'-0"
A1/A1

- GENERAL NOTES ON THIS SHEET:**
- REMOVE GYPSUM BOARD WALL AND CEILING FINISHES, REMOVE LAY-IN CEILING TILE AND GRID AND REMOVE GYPSUM BOARD SUB CEILING FROM THE BUILDING. EXISTING STEEL STUD FURRING REMAINS.
 - REMOVE INTERIOR DOORS, EXTERIOR DOORS AND FRAMES, AND HARDWARE FROM THE BUILDING. SEE DOOR SCHEDULE ON SHEET A-3.
 - REMOVE WINDOWS FROM BUILDING - SEE DETAIL 1/A1/A12.
 - GOVERNMENT SHALL REMOVE BUILDING CONTENTS.
 - REMOVE CONCRETE SLAB AS REQUIRED TO PROVIDE SEWER LINES FOR THE NEW PLUMBING FIXTURES IN THE RENOVATED CONDITIONS.

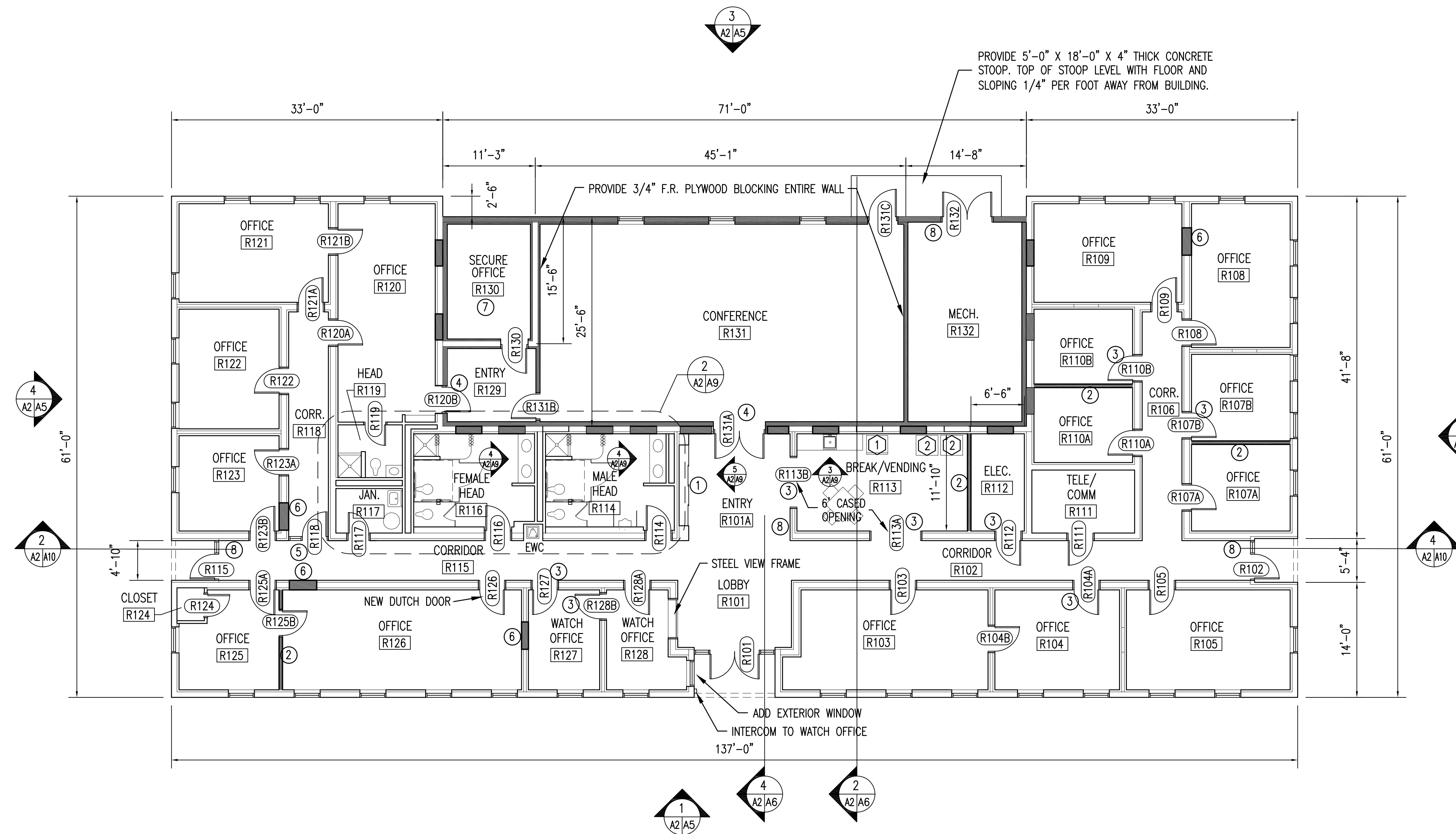
- NUMBERED NOTES ON THIS SHEET:**
- REMOVE BUILT-IN TROPHY CASE.
 - REMOVE EXISTING TERRA COTTA BLOCK AND STEEL STUD WALL - SEE RENOVATED PLAN FOR EXTENT OF WALL REMOVAL.
 - REMOVE SECTION OF EXISTING INTERIOR TERRA COTTA BLOCK AND STEEL STUD WALL TO CREATE NEW DOOR OPENING - SEE DETAIL 2/A1/A2.
 - REMOVE DOOR AND FRAME AND INFILL OPENING - SEE DETAIL 2/A1/A2.
 - REMOVE WINDOW AND INFILL OPENING - SEE DETAIL 1/A1/A12.
 - REMOVE SECTION OF EXISTING EXTERIOR TERRA COTTA BLOCK AND STEEL STUD WALL AND/OR WINDOW TO CREATE NEW DOOR OPENING - SEE DETAIL 2/A1/A2.



SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

	SHEET TITLE: EXISTING CONDITIONS FLOOR PLAN		A-1
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150		
DES. Robert L. Smith III DR. Steven C. Fender CHK. Robert L. Smith III		INTERIOR/EXTERIOR REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA	
SUBMITTED BY: DESIGN DIR. APPROVED:		DATE:	SIZE: F CODE IDENT. NO.: 80091 NAVFAC DRAWING NO.: 60024507 CONST. CONTR. NO.: N40085-19-B-0025 SCALE: NOTED SPEC: 05-19-0025 SHEET 8 OF 59
SATISFACTORY TO:		DATE:	SHEET 8 OF 59

REVISIONS		
SYMBOL	DATE	APPROVED



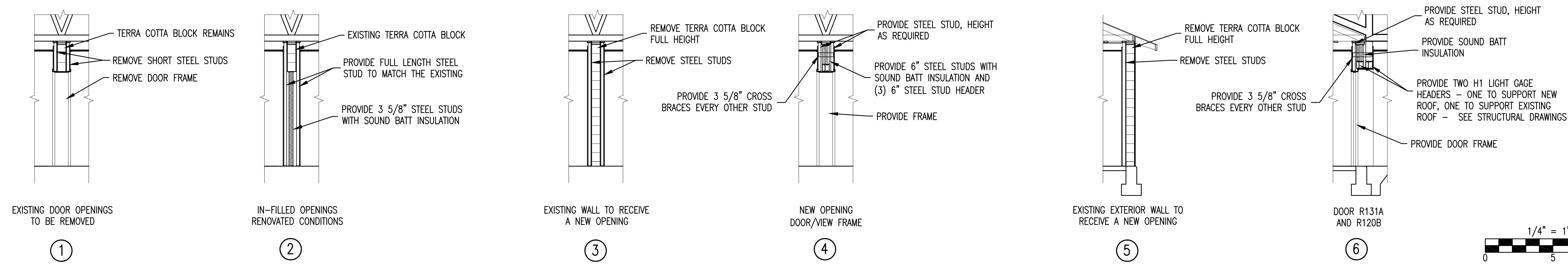
- GENERAL NOTES ON THIS SHEET:
1. PROVIDE GYPSUM BOARD AND FASTEN TO EXISTING STEEL STUD FURRING AND PROVIDE GYPSUM BOARD CEILING FASTEN TO EXISTING WOOD JOISTS. PROVIDE LAY-IN CEILING TILE AND GRID IN THE BUILDING. SEE CEILING PLAN SHEET A7.
 2. PROVIDE INTERIOR DOORS, EXTERIOR DOORS, FRAMES, AND HARDWARE AS SCHEDULED AND SPECIFIED. SEE DOOR SCHEDULE ON SHEET A-4
 3. PROVIDE WINDOWS IN THE BUILDING - SEE DETAIL 2/A2/A12, 3/A2/A12 AND 4/A2/A12.
 4. PATCH CONCRETE SLAB WHERE REMOVED FOR NEW PLUMBING FIXTURES.

- APPLIANCES BY GOVERNMENT:
- 1 REFRIGERATOR/FREEZER
 - 2 VENDING MACHINES

- NUMBERED NOTES ON THIS SHEET:
- 1 PROVIDE RECESSED TROPHY CASE - SEE ELEVATION 5/A2/A9.
 - 2 PROVIDE 3 5/8" STEEL STUD AND 5/8" GYPSUM BOARD WALLS WITH SOUND BATT INSULATION.
 - 3 PROVIDE NEW DOOR OPENING IN EXISTING INTERIOR WALL - SEE DETAIL 2/A2/A2.
 - 4 PROVIDE NEW DOOR OPENING IN EXISTING EXTERIOR WALL - SEE DETAIL 2/A2/A2.
 - 5 PROVIDE NEW DOOR AND FRAME - SEE DOOR SCHEDULE
 - 6 INFILL EXISTING INTERIOR DOOR OPENING - SEE DETAIL 2/A2/A2
 - 7 BUILD WALLS UP FULL HEIGHT TO BOTTOM OF ROOF DECK.
 - 8 PROVIDE WALL BRACKET MOUNTED FIRE EXTINGUISHERS. SEE LIFE SAFETY PLAN.

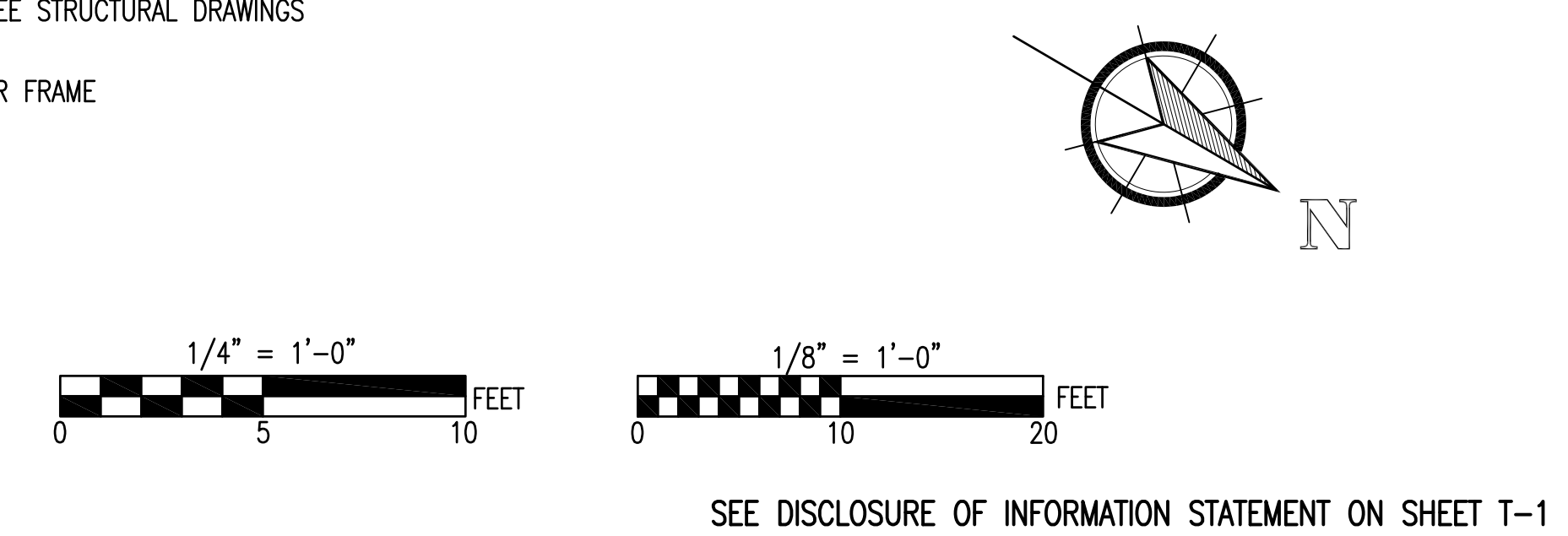
RENOVATED CONDITIONS FLOOR PLAN M131

1/8" = 1'-0"



EXISTING AND NEW OPENING DETAILS

SEE DOOR AND FRAME SCHEDULE FOR FRAME SIZES 1/4" = 1'-0"



	SHEET TITLE: RENOVATED CONDITIONS PLAN		A-2
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150 SHELBY, N.C.		
DES. Robert L. Smith III DR. Steven C. Fender CHK. Robert L. Smith III		INTERIOR/EXTERIOR REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA	
SUBMITTED BY: DESIGN DIR. APPROVED:		DATE:	SIZE: F CODE IDENT. NO.: 80091 NAVFAC DRAWING NO.: 60024508 CONST. CONTR. NO.: N40085-19-B-0025 SCALE: NOTED SPEC: 05-19-0025 SHEET 9 OF 59

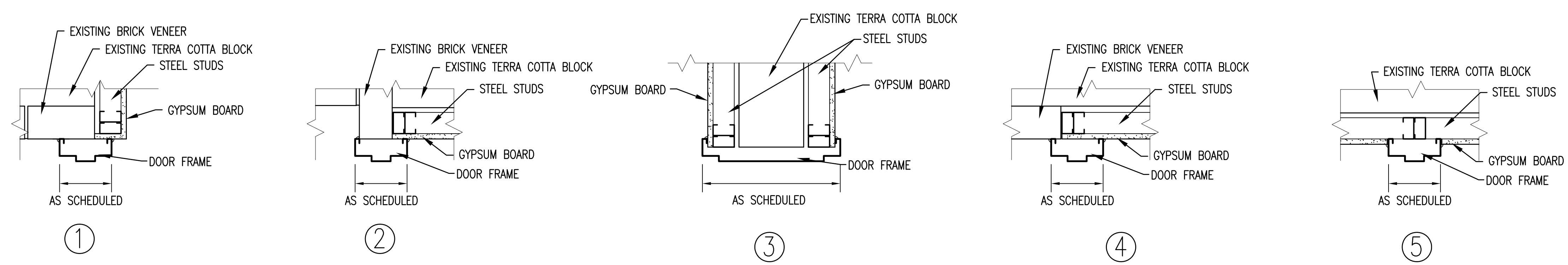
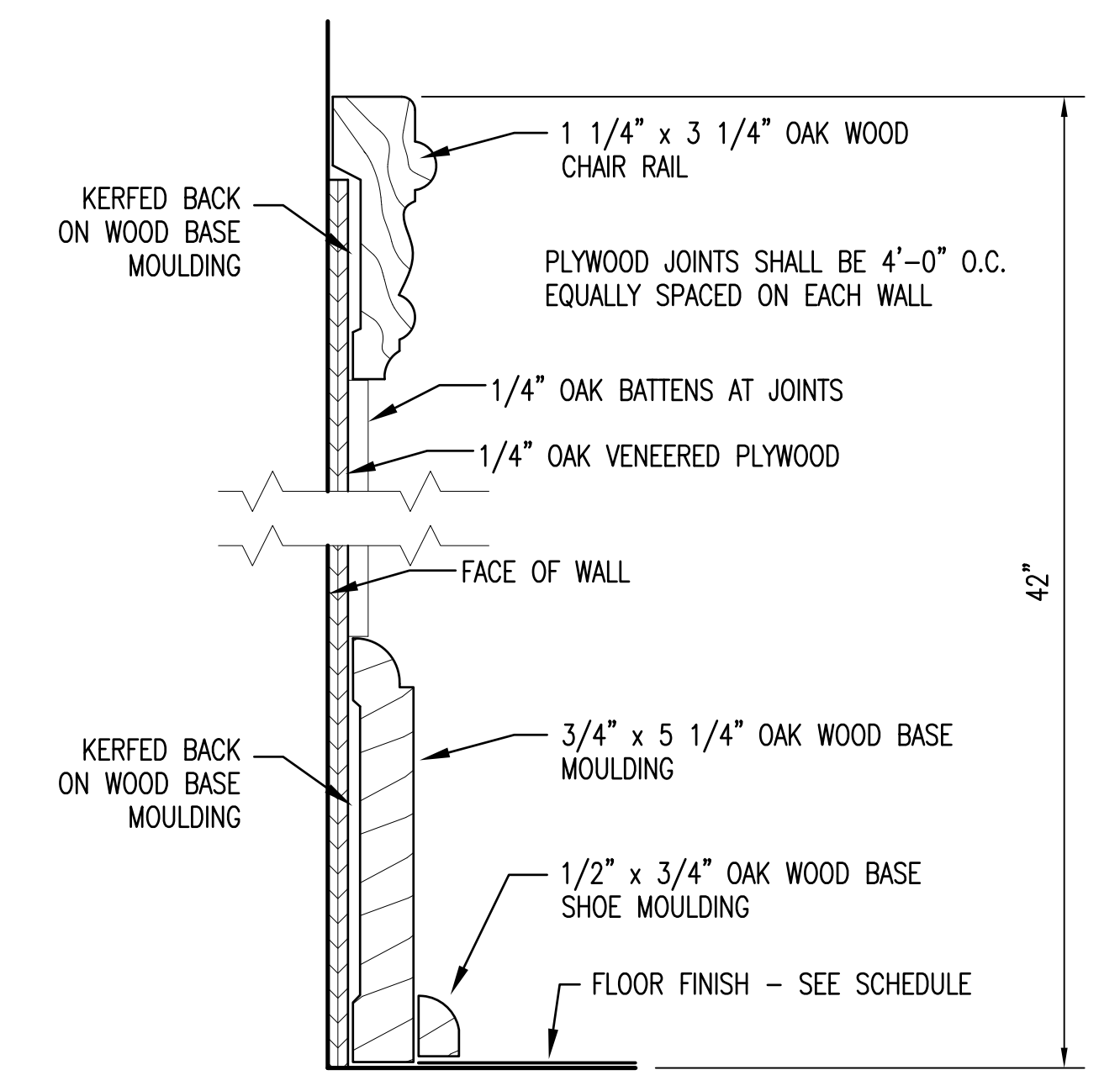
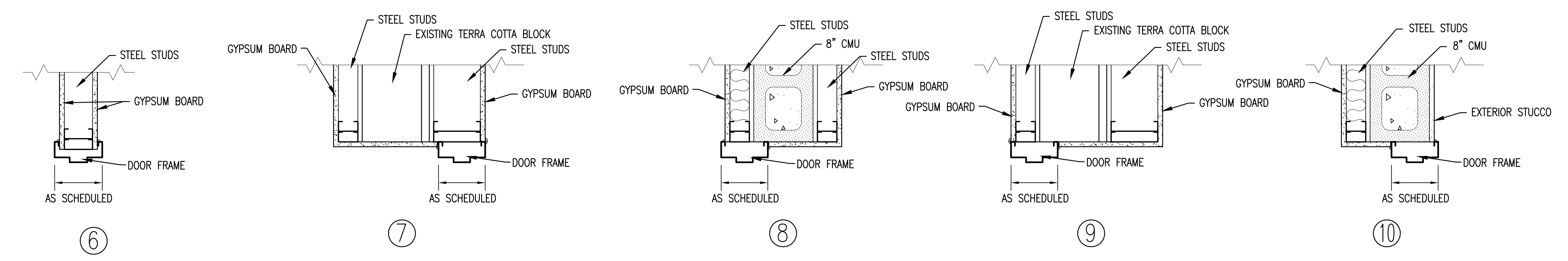
REVISIONS		
SYMBOL	DATE	APPROVED

EXISTING FINISH SCHEDULE BUILDING M131										SEE THIS SYMBOL ON FLOOR PLANS FOR CORRESPONDING ROOM NUMBER										
ROOM NO.	ROOM NAME	FLOOR	BASE	WALL	CEILING	CEILING HT.	REMARKS	ROOM NO.	ROOM NAME	FLOOR										
		CARPET	CONCRETE	2" X 2" CERAMIC TILE	12" X 12" V.C.T.	4" COVED RUBBER	2 PIECE WOOD (STAINED)	4" COVED CERAMIC	GYPSUM BOARD	TERRA COTTA BLOCK	WOOD SHEET PANELING	4" X 4" CERAMIC TILE	GYPSUM BOARD	24" X 24" LAY-IN TILE	GYPSUM BOARD SUB CEILING	24" X 24" MR. LAY-IN TILE	9'-1"			
E101	LOBBY																9'-1"			
E102	CORRIDOR																8'-0"	CEILING AT DOOR E102 STEPS UP TO 8'-6"		E102
E103	OFFICE																8'-3"			E103
E104	OFFICE																8'-3"			E104
E105	OFFICE																8'-3"			E105
E106	CORRIDOR																8'-0"			E106
E107	OFFICE																8'-3"			E107
E108	OFFICE																8'-3"			E108
E109	OFFICE																8'-3"			E109
E110	OFFICE																8'-3"			E110
E111	TELE/COMM																9'-1"			E111
E112	CONFERENCE																8'-3"			E112
E113	OFFICE																8'-3"			E113
E114	MALE HEAD																7'-7"			E114
E115	CORRIDOR																8'-0"	CEILING AT DOOR E102 STEPS UP TO 8'-6"		E115
E116	FEMALE HEAD																7'-7"			E116
E117	MECHANICAL																8'-3"			E117
E118	CORRIDOR																8'-0"			E118
E119	HEAD																7'-7"			E119
E120	OFFICE																8'-3"	WOOD PANELING WAINSCOT UP 42"		E120
E121	OFFICE																8'-3"	WOOD PANELING WAINSCOT UP 42"		E121
E122	OFFICE																8'-3"	WOOD PANELING WAINSCOT UP 42"		E122
E123	OFFICE																8'-3"	WOOD PANELING WAINSCOT UP 42"		E123
E124	CLOSET																8'-0"			E124
E125	OFFICE																8'-3"			E125
E126	OFFICE																8'-3"			E126
E127	OFFICE																8'-3"			E127
E128	VENDING																8'-3"			E128

RENOVATED FINISH SCHEDULE BUILDING M131										SEE THIS SYMBOL ON FLOOR PLANS FOR CORRESPONDING ROOM NUMBER										
ROOM NO.	ROOM NAME	FLOOR	BASE	WALL	CEILING	CEILING HT.	REMARKS	ROOM NO.	ROOM NAME	FLOOR										
		CARPET	CONCRETE	(LVT) LUXURY VINYL PLANK TILE	2" X 2" PORCELAIN TILE	4" COVED RUBBER	4" COVED CERAMIC	WOOD STAINED	NONE	GYPSUM BOARD	EXISTING TERRA COTTA BLOCK	4" X 4" CERAMIC TILE	WOOD PANELING	MASONRY BLOCK	EXISTING FACE BRICK	24" X 24" LAY-IN TILE	GYPSUM BOARD SUB CEILING	M.R. GYPSUM BOARD		
R101	LOBBY																			
R101A	ENTRY																			
R102	CORRIDOR																			
R103	OFFICE																			
R104	OFFICE																			
R105	OFFICE																			
R106	CORRIDOR																			
R107A	OFFICE																			
R107B	OFFICE																			
R108	OFFICE																			
R109	OFFICE																			
R110A	OFFICE																			
R110B	OFFICE																			
R111	TELE/COMM																			
R112	ELECTRICAL																			
R113	BREAK/VENDING																			
R114	MALE HEAD																			
R115	CORRIDOR																			
R116	FEMALE HEAD																			
R117	JANITOR																			
R118	CORRIDOR																			
R119	HEAD																			
R120	OFFICE																			
R121	OFFICE																			
R122	OFFICE																			
R123	OFFICE																			
R124	CLOSET																			
R125	OFFICE																			
R126	OFFICE																			
R127	WATCH OFFICE																			
R128	WATCH OFFICE																			
R129	ENTRY																			
R130	SECURE OFFICE																			
R131	CONFERENCE																			
R132	MECHANICAL																			

NEW CONDITIONS INTERIOR COLOR SCHEDULE BLDG M131				COLORS INDICATED IN THIS SCHEDULE ARE BASED ON BASE COLOR SCHEME "A".
UNLESS NOTED AS "NO CHANGE" PROVIDE NEW FINISH OR FINISH WORK AS SCHEDULED.				EQUAL MANUFACTURERS TO THOSE SCHEDULED ARE ACCEPTABLE.
FLOOR	BASE	WALLS	CEILING	STEEL DOORS & FRAMES
CARPET TANDUS CENTIVA, AFTERMATH II 03026, CAMOFLAGE 23506	4" COVED RUBBER JOHNSONITE, TA4 GATEWAY	PAINT GYPSUM BOARD AND MASONRY WALLS WALL - S-W, REPOSE GRAY (SW 7015)	GYP BOARD (PAINT) S-W, PEARLY WHITE (7009) (EGOSHELL)	INTERIOR, AND INTERIOR PORTION OF EXTERIOR, DOORS AND FRAMES TRIM - S-W, ICE CUBE (SW 6252) (SEMI GLOSS)
LVT - LUXURY VINYL TILE SHAW CONTRACT, UNCOMMON GROUND, FRENCH GRAY 02500	4" COVED CERAMIC DAL TILE, MATTE GLAZED CERAMIC, MATTE ARCHITECTURAL GRAY 0709	WOOD TRIM - S-W, ICE CUBE (SW 6252) (SEMI GLOSS)	ACOUSTICAL LAY-IN ARMSTRONG, CORTEGA, MEDIUM TEXTURE	CASEWORK LAMINATE BREAK ROOM TOP - DUPONT, CORIAN, CONCRETE BODY - WILSONART, NORTH SEA, D90-60 MATTE FINISH
PORCELAIN DAL TILE, PORCELATO COLOR BODY PORCELAIN, VERDE ALGHERO CD07	GROUT CUSTOM BUILDING PRODUCTS, #386 OYSTER GRAY	4" CERAMIC TILE DAL TILE, MATTE GLAZED CERAMIC, MATTE ARCHITECTURAL GRAY 0709	TOILET PARTITIONS GLOBAL PARTITIONS, FOLKSTONE GREY 9400	MALE AND FEMALE HEAD TOP - DUPONT, CORIAN, SERENE SAGE BODY - WILSONART, DOVE GREY, D92-60 MATTE FINISH
GROUT CUSTOM BUILDING PRODUCTS, #09 NATURAL GRAY	WOOD BASE MINWAX, SPECIAL WALNUT 224	GROUT CUSTOM BUILDING PRODUCTS, #386 OYSTER GRAY	WOOD DOORS MINWAX, SPECIAL WALNUT 224	

SEE INTERIOR CONDITIONS NEW COLOR SCHEDULE ON THIS SHEET FOR MORE FINISH INFORMATION.



DOOR FRAME POSITIONING DETAILS
1 1/2" = 1'-0"

NEW CONDITIONS WOOD BASE DETAIL 1
SCALE: 6" = 1'-0"

1/4" = 1'-0" FEET

SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

SHEET TITLE: FINISH SCHEDULES		A-3	
TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150		MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
DES. Robert L. Smith III	DR. Steven C. Fender	INTERIOR/EXTERIOR REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA	
CHK. Robert L. Smith III	SUBMITTED BY:	DATE	SIZE
DESIGN DIR.	APPROVED:	8/10/21	F
SATISFACTORY TO:	DATE	CODE IDENT. NO. 80091	NAVFAC DRAWING NO. 60024509
		CONST. CONTR. NO. N40085-19-B-0025	SHEET 10 OF 59

06/24/2019

REVISIONS		
SYMBOL	DATE	APPROVED

SCHEDULE OF EXISTING DOORS AND FRAMES

(E100) SEE THIS SYMBOL ON FLOOR PLAN FOR IDENTIFYING DOOR NUMBER

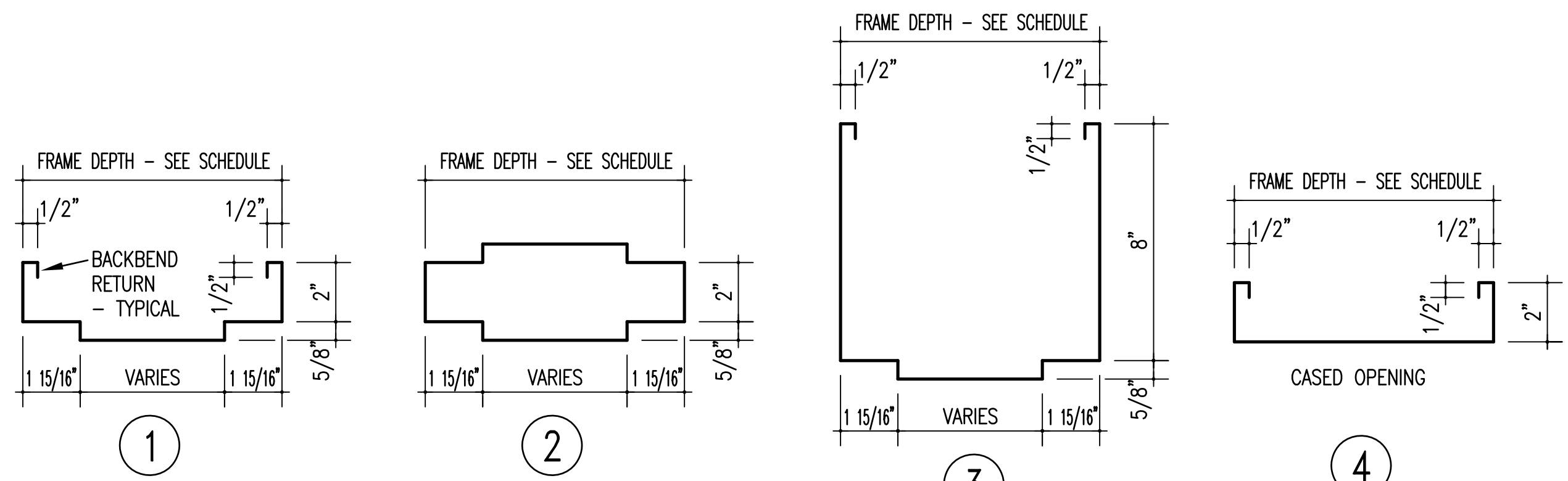
DOOR NO.	DOOR SIZE	DOOR TYPE	GLASS PANEL	LOUVER OR UC	HDW. NO.	FIRE RATING	MASONRY OPENING WHERE APPLICABLE	FRAME TYPE	FRAME DEPTH	FRAME POSITION	THRESH DETAIL	REMARKS	DOOR NO.
E101	PR 3-0 X 7-0	SD	FULL	-	-	-	9'-11" X 8'-7"	SDF-1	6"	-	-	REMOVE DOOR, FRAME, & HARDWARE COMPLETE	E101
E102	3-0 X 7-0	SD	FULL	-	-	-	4'-10" X 8'-6"	SDF-2	6"	-	-	REMOVE DOOR, FRAME, & HARDWARE COMPLETE	E102
E103	3-0 X 7-0	WD	-	-	-	-	-	SDF	16"	-	-	REMOVE DOOR & HARDWARE COMPLETE	E103
E104	3-0 X 7-0	WD	-	-	-	-	-	SDF	11 1/2"	-	-	REMOVE DOOR & HARDWARE COMPLETE	E104
E105	3-0 X 7-0	WD	-	-	-	-	-	SDF	16"	-	-	REMOVE DOOR & HARDWARE COMPLETE	E105
E107	3-0 X 7-0	WD	-	-	-	-	-	SDF	16"	-	-	REMOVE DOOR & HARDWARE COMPLETE	E107
E108A	3-0 X 7-0	WD	-	-	-	-	-	SDF	16"	-	-	REMOVE DOOR & HARDWARE COMPLETE	E108A
E108B	3-0 X 7-0	WD	-	-	-	-	-	SDF	16"	-	-	REMOVE DOOR, FRAME, & HARDWARE COMPLETE	E108B
E109	3-0 X 7-0	WD	-	-	-	-	-	SDF	16"	-	-	REMOVE DOOR & HARDWARE COMPLETE	E109
E110	3-0 X 7-0	WD	-	-	-	-	-	SDF	16"	-	-	REMOVE DOOR & HARDWARE COMPLETE	E110
E111	3-0 X 7-0	WD	-	-	-	-	-	SDF	17"	-	-	REMOVE DOOR, FRAME, & HARDWARE COMPLETE	E111
E112	3-0 X 7-0	WD	-	-	-	-	-	SDF	16"	-	-	REMOVE DOOR & HARDWARE COMPLETE	E112
E113	3-0 X 7-0	WD	-	-	-	-	-	SDF	16"	-	-	REMOVE DOOR & HARDWARE COMPLETE	E113
E114	3-0 X 7-0	WD	-	-	-	-	-	SDF	16"	-	-	REMOVE DOOR & HARDWARE COMPLETE	E114
E115	3-0 X 7-0	SD	FULL	-	-	-	4'-10" X 8'-6"	SDF-2	6"	-	-	REMOVE DOOR, FRAME, & HARDWARE COMPLETE	E115
E116	3-0 X 7-0	WD	-	-	-	-	-	SDF	16"	-	-	REMOVE DOOR & HARDWARE COMPLETE	E116
E117	2-6 X 7-0	WD	-	-	-	-	-	SDF	12 1/2"	-	-	REMOVE DOOR & HARDWARE COMPLETE	E117
E119	2-6 X 7-0	WD	-	-	-	-	-	SDF	5 3/4"	-	-	REMOVE DOOR & HARDWARE COMPLETE	E119
E120	3-0 X 7-0	WD	-	-	-	-	-	SDF	11 1/4"	-	-	REMOVE DOOR & HARDWARE COMPLETE	E120
E121A	3-0 X 7-0	WD	-	-	-	-	-	SDF	16"	-	-	REMOVE DOOR & HARDWARE COMPLETE	E121A
E121B	3-0 X 7-0	WD	-	-	-	-	-	SDF	16"	-	-	REMOVE DOOR & HARDWARE COMPLETE	E121B
E122	3-0 X 7-0	WD	-	-	-	-	-	SDF	16"	-	-	REMOVE DOOR & HARDWARE COMPLETE	E122
E123	3-0 X 7-0	WD	-	-	-	-	-	SDF	16"	-	-	REMOVE DOOR & HARDWARE COMPLETE	E123
E124	2-4 X 6-8	WD	-	1" UC	-	-	-	SDF	5 1/2"	-	-	REMOVE DOOR & HARDWARE COMPLETE	E124
E125	3-0 X 7-0	WD	-	-	-	-	-	SDF	16"	-	-	REMOVE DOOR, FRAME, & HARDWARE COMPLETE	E125
E126A	3-0 X 7-0	SD	-	-	-	-	-	SDF	16"	-	-	REMOVE DUTCH DOOR, FRAME, & HARDWARE COMPLETE	E126A
E126B	3-0 X 7-0	WD	-	-	-	-	-	SDF	11 1/4"	-	-	REMOVE DOOR & HARDWARE COMPLETE	E126B
E127	3-0 X 7-0	WD	-	-	-	-	-	SDF	11 1/4"	-	-	REMOVE DOOR, FRAME, & HARDWARE COMPLETE	E127
E128	3-0 X 7-0	WD	10" X 10"	-	-	-	-	SDF	12 1/2"	-	-	REMOVE DOOR & HARDWARE COMPLETE	E128
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-

SCHEDULE OF RENOVATED DOORS AND FRAMES

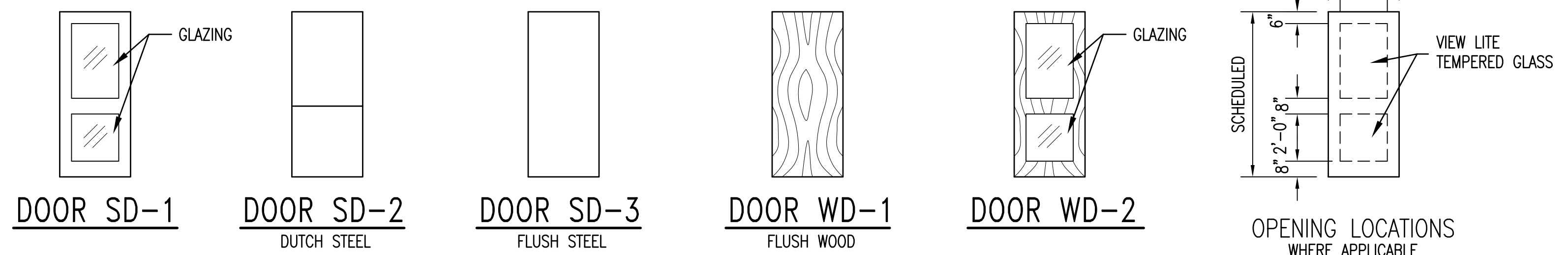
(R100) SEE THIS SYMBOL ON FLOOR PLAN FOR IDENTIFYING DOOR NUMBER

DOOR NO.	DOOR SIZE	DOOR TYPE	GLASS PANEL	LOUVER OR UC	HDW. NO.	FIRE RATING	MASONRY OPENING WHERE APPLICABLE	FRAME TYPE	FRAME DEPTH	FRAME POSITION	THRESH DETAIL	REMARKS	DOOR NO.
R101	PR 3-0 X 7-0	SD-1	FULL	-	1	-	-	SDF-1	6"	1	-	PROVIDE DOOR, FRAME, & HARDWARE	R101
R102	3-0 X 7-0	SD-1	FULL	-	2	-	-	SDF-2	6"	2	-	PROVIDE DOOR, FRAME, & HARDWARE	R102
R103	3-0 X 7-0	WD-1	-	-	5	-	-	-	-	-	-	PROVIDE DOOR & HARDWARE	R103
R104A	3-0 X 7-0	WD-1	-	-	5	-	-	SDF-3	16"	3	-	PROVIDE DOOR, FRAME, & HARDWARE	R104A
R104B	3-0 X 7-0	WD-1	-	-	5	-	-	-	-	-	-	PROVIDE DOOR & HARDWARE	R104B
R105	3-0 X 7-0	WD-1	-	-	5	-	-	-	-	-	-	PROVIDE DOOR & HARDWARE	R105
R107A	3-0 X 7-0	WD-1	-	-	5	-	-	-	-	-	-	PROVIDE DOOR & HARDWARE	R107A
R107B	3-0 X 7-0	WD-1	-	-	5	-	-	SDF-3	16"	3	-	PROVIDE DOOR, FRAME, & HARDWARE	R107B
R108	3-0 X 7-0	WD-1	-	-	5	-	-	-	-	-	-	PROVIDE DOOR & HARDWARE	R108
R109	3-0 X 7-0	WD-1	-	-	5	-	-	-	-	-	-	PROVIDE DOOR & HARDWARE	R109
R110A	3-0 X 7-0	WD-1	-	-	5	-	-	-	-	-	-	PROVIDE DOOR & HARDWARE	R110A
R110B	3-0 X 7-0	WD-1	-	-	5	-	-	SDF-3	16"	3	-	PROVIDE DOOR, FRAME, & HARDWARE	R110B
R111	3-0 X 7-0	WD-1	-	1" UC	8	-	-	SDF-3	17"	3	-	PROVIDE DOOR, FRAME, & HARDWARE	R111
R112	3-0 X 7-0	WD-1	-	1" UC	8	-	-	SDF-3	16"	3	-	PROVIDE DOOR, FRAME, & HARDWARE	R112
R113A	6-0 X 7-0	-	-	-	-	-	-	SDF-4	16"	3	-	PROVIDE CASED OPENING FRAME	R113A
R113B	6-0 X 7-0	-	-	-	-	-	-	SDF-4	16"	3	-	PROVIDE CASED OPENING FRAME	R113B
R114	3-0 X 7-0	WD-1	-	-	6	-	-	-	-	-	-	PROVIDE DOOR & HARDWARE	R114
R115	3-0 X 7-0	SD-1	FULL	-	2	-	-	SDF-5	6"	4	-	PROVIDE DOOR, FRAME, & HARDWARE	R115
R116	3-0 X 7-0	WD-1	-	-	6	-	-	-	-	-	-	PROVIDE DOOR & HARDWARE	R116
R117	2-6 X 7-0	WD-1	-	1" UC	7	-	-	-	-	-	-	PROVIDE DOOR & HARDWARE	R117
R118	3-0 X 7-0	WD-2	FULL	-	10	-	-	SDF-6	6"	5	-	PROVIDE DOOR, FRAME, & HARDWARE	R118
R119	2-6 X 7-0	WD-1	-	-	9	-	-	-	-	-	-	PROVIDE DOOR & HARDWARE	R119
R120A	3-0 X 7-0	WD-1	-	-	5	-	-	-	-	-	-	PROVIDE DOOR & HARDWARE	R120A
R120B	3-0 X 7-0	WD-1	-	-	5	-	-	SDF-3	6"	7	-	PROVIDE DOOR, FRAME, & HARDWARE	R120B
R121A	3-0 X 7-0	WD-1	-	-	5	-	-	-	-	-	-	PROVIDE DOOR & HARDWARE	R121A
R121B	3-0 X 7-0	WD-1	-	-	5	-	-	-	-	-	-	PROVIDE DOOR & HARDWARE	R121B
R122	3-0 X 7-0	WD-1	-	-	5	-	-	-	-	-	-	PROVIDE DOOR & HARDWARE	R122
R123A	3-0 X 7-0	WD-1	-	-	5	-	-	-	-	-	-	PROVIDE DOOR, FRAME, & HARDWARE	R123A
R123B	3-0 X 7-0	WD-1	-	-	5	-	-	SDF-3	16"	3	-	PROVIDE DOOR, FRAME, & HARDWARE	R123B
R124	2-4 X 6-8	WD-1	-	1" UC	5	-	-	-	-	-	-	PROVIDE DOOR & HARDWARE	R124
R125A	3-0 X 7-0	WD-1	-	-	5	-	-	SDF-3	16"	3	-	PROVIDE DOOR, FRAME, & HARDWARE	R125A
R125B	3-0 X 7-0	WD-1	-	-	5	-	-	SDF-3	6"	6	-	PROVIDE DOOR, FRAME, & HARDWARE	R125B
R126	3-0 X 7-0	SD-2	-	-	13	-	-	SDF-3	16"	3	-	PROVIDE DUTCH DOOR, FRAME, & HARDWARE	R126
R127	3-0 X 7-0	WD-1	-	-	5	-	-	SDF-3	16"	3	-	PROVIDE DOOR, FRAME, & HARDWARE	R127
R128A	3-0 X 7-0	WD-1	18" X 24"	-	5	-	-	-	-	-	-	PROVIDE DOOR & HARDWARE	R128A
R128B	3-0 X 7-0	WD-1	-	-	5	-	-	SDF-3	12"	3	-	PROVIDE DOOR, FRAME, & HARDWARE	R128B
R130	3-0 X 7-0	WD-1	-	-	11	-	-	SDF-3	6"	8	-	PROVIDE DOOR, FRAME, & HARDWARE	R130
R131A	PR 3-0 X 7-0	WD-1	-	-	12	-	-	SDF-7	6"	9	-	PROVIDE DOOR, FRAME, & HARDWARE	R131A
R131B	3-0 X 7-0	WD-1	-	-	5	-	-	SDF-3	6"	6	-	PROVIDE DOOR, FRAME, & HARDWARE	R131B
R131C	3-4 X 7-0	SD-3	-	-	3	-	-	SDF-3	6"	10	-	PROVIDE DOOR, FRAME, & HARDWARE	R131C
R132	PR 3-0 X 7-0	SD-3	-	-	4	-	-	SDF-7	6"	11	-	PROVIDE DOOR, FRAME, & HARDWARE	R132
-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVF-1	4-6 X 5-0	-	-	-	-	-	-	SVF-1	16"	3	-	PROVIDE STEEL VIEW FRAME WITH TEMPERED SAFETY GLASS	SVF-1

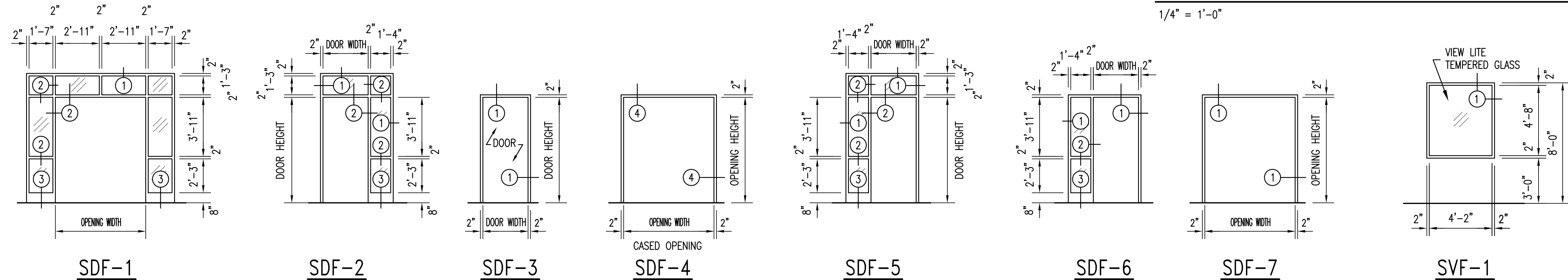
- NOTES CONCERNING RENOVATED SCHEDULE:
- FIELD VERIFY EXISTING OPENINGS TO RECEIVE NEW STEEL FRAMES. FIELD VERIFY EXISTING STEEL FRAMES TO RECEIVE NEW DOORS.
 - PROVIDE 4" ALUMINUM SADDLE THRESHOLD AT DOOR LOCATIONS WHERE FLOOR FINISHES CHANGE.
 - PROVIDE 4" ALUMINUM SADDLE THRESH AND HOODED DOOR BOTTOM ON EXTERIOR DOORS.
 - SEE SHEET A-3 FOR FRAME POSITION DETAILS.



FRAME SECTIONS AS INDICATED ON "DOOR FRAME TYPES" BELOW ON THIS SHEET
 3" = 1'-0" NOTE THAT BACKBEND RETURNS ARE REQUIRED ON ALL FRAMES.



DOOR TYPES COORDINATE MOUNTING HEIGHT OF EXIT DEVICES AND DOOR HARDWARE SO AS NOT TO CONFLICT WITH OPENINGS IN DOORS.
 1/4" = 1'-0"

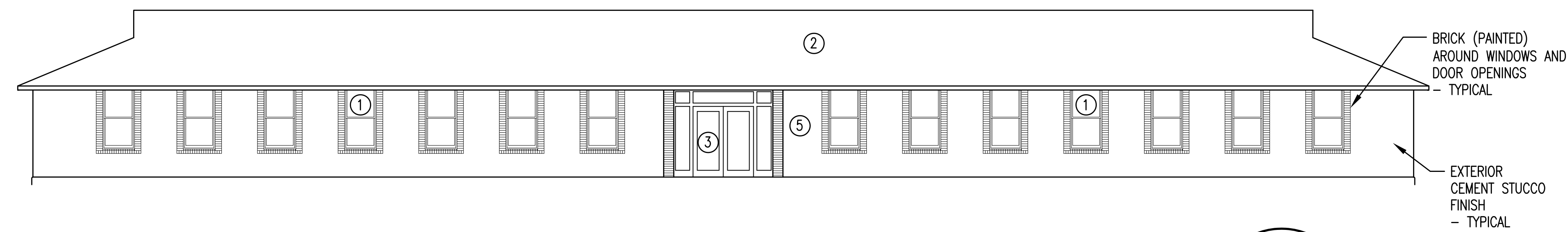


DOOR FRAME TYPES 1/4" = 1'-0" SDF = STEEL DOOR FRAME SVF = STEEL VIEW FRAME FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS.

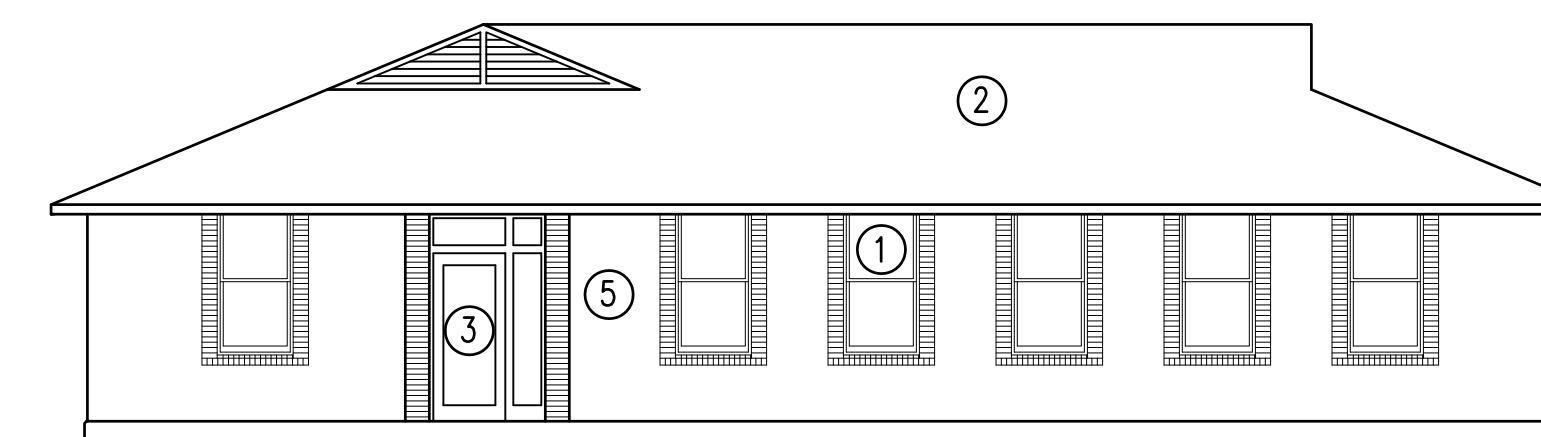
SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

	SHEET TITLE: DOOR SCHEDULES		A-4
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150		
DES. Robert L. Smith III	INTERIOR/EXTERIOR REPAIRS BLDG. M131		NAVFAC DRAWING NO. 60024510 CONST. CONTR. NO. N40085-19-B-0025 SHEET 11 OF 59
DR. Steven C. Fender	CAMP LEJEUNE, NORTH CAROLINA		
CHK. Robert L. Smith III	DATE: 06/24/2019	SCALE: NOTED	SPEC: 05-19-0025
SUBMITTED BY:	DATE:	SIZE: F	CODE IDENT. NO. 80091
DESIGN DIR.	DATE:	DATE:	DATE:
APPROVED:	DATE:	DATE:	DATE:
SATISFACTORY TO:	DATE:	DATE:	DATE:

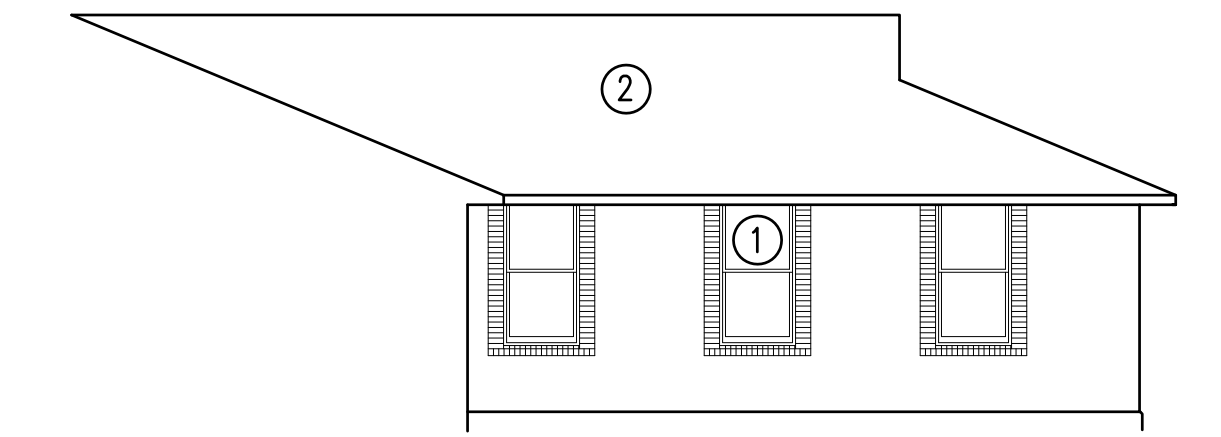
REVISIONS		
SYM.	DATE	APPROVED



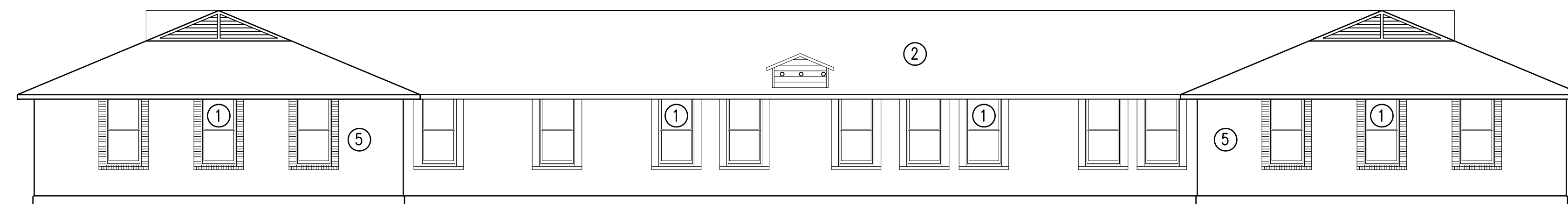
EXISTING ELEVATION 1
1/8" = 1'-0" A1 | A5



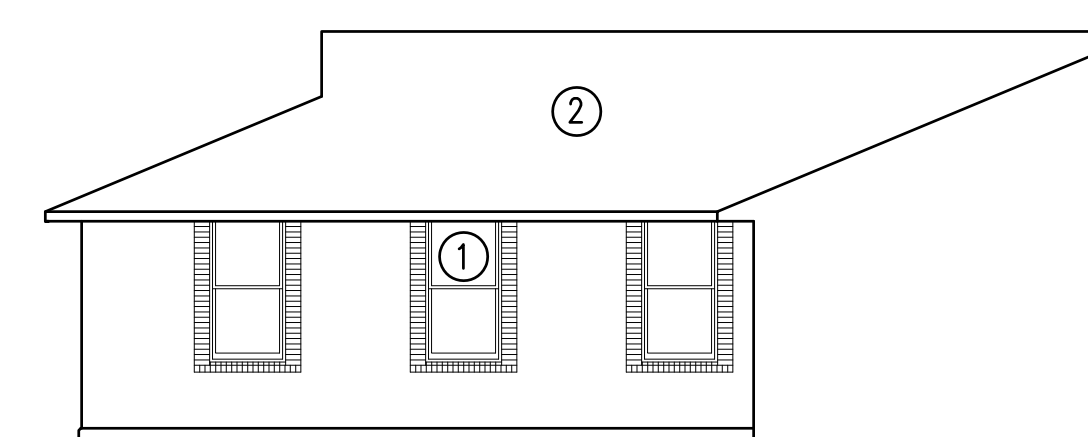
EXISTING ELEVATION 2
1/8" = 1'-0" A1 | A5



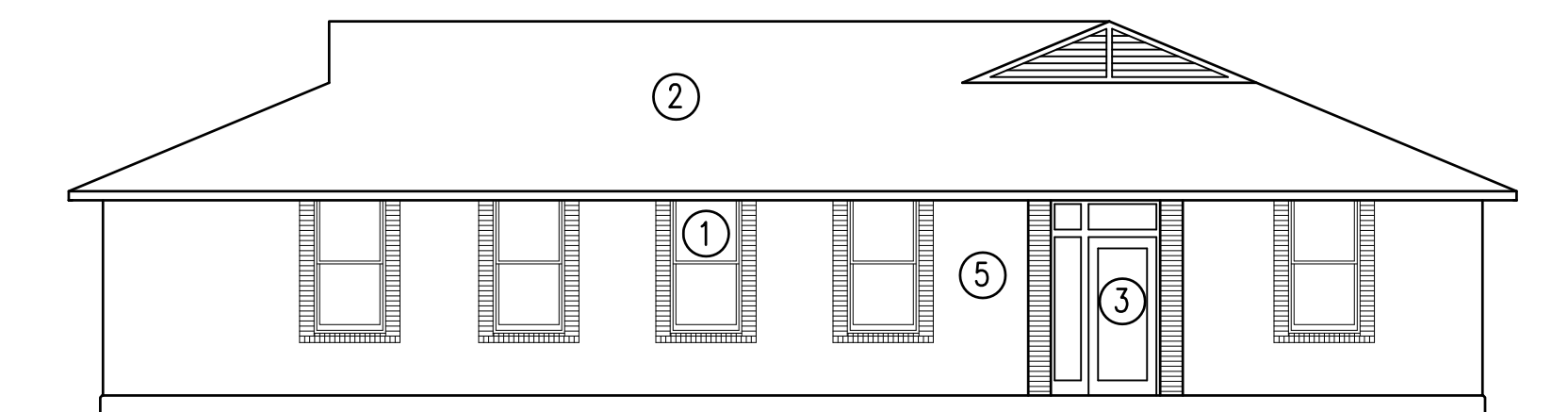
EXISTING ELEVATION 5
1/8" = 1'-0" A1 | A5



EXISTING ELEVATION 3
1/8" = 1'-0" A1 | A5



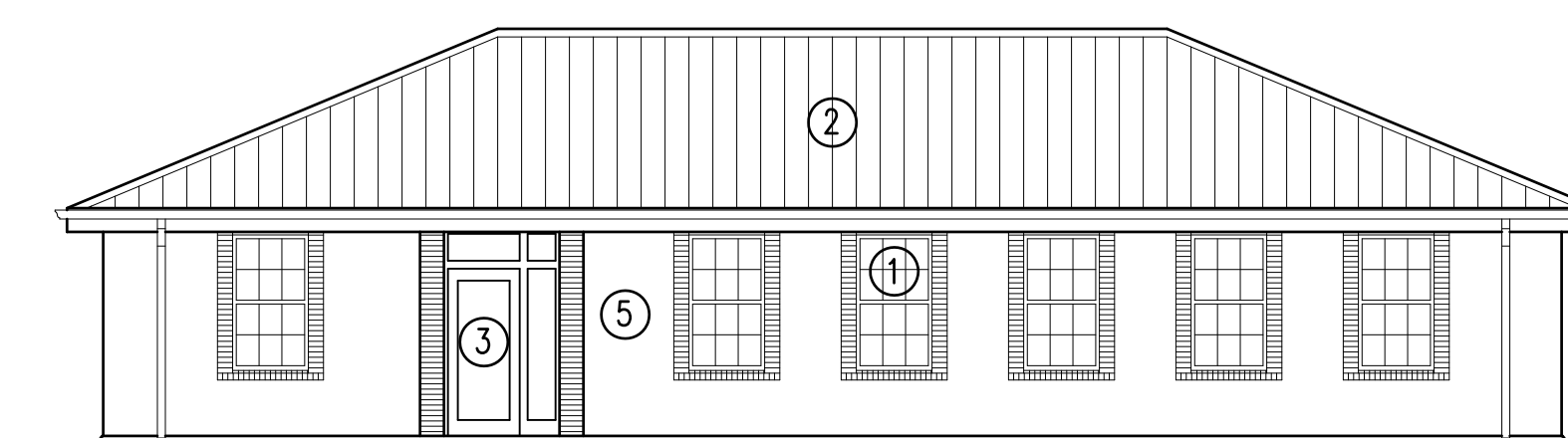
EXISTING ELEVATION 6
1/8" = 1'-0" A1 | A5



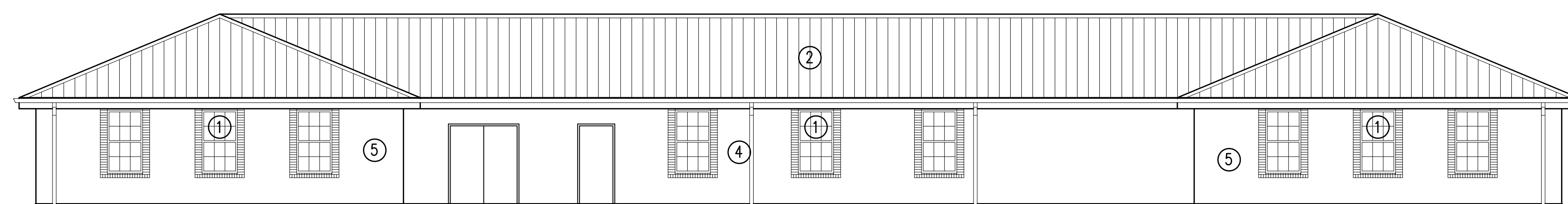
EXISTING ELEVATION 4
1/8" = 1'-0" A1 | A5



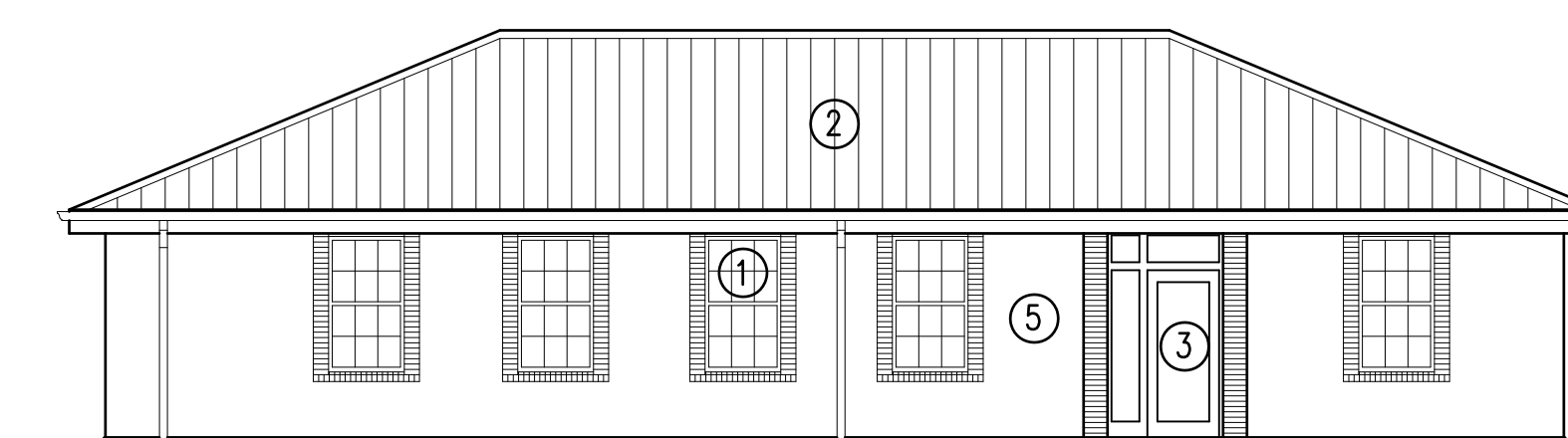
RENOVATED ELEVATION 1
1/8" = 1'-0" A2 | A5



RENOVATED ELEVATION 2
1/8" = 1'-0" A2 | A5



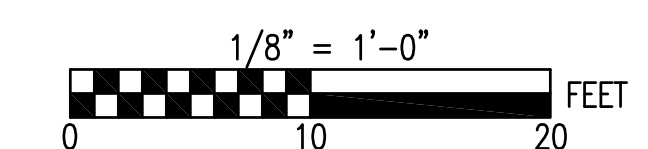
RENOVATED ELEVATION 3
1/8" = 1'-0" A2 | A5



RENOVATED ELEVATION 4
1/8" = 1'-0" A2 | A5

NUMBERED NOTES ON THIS SHEET:

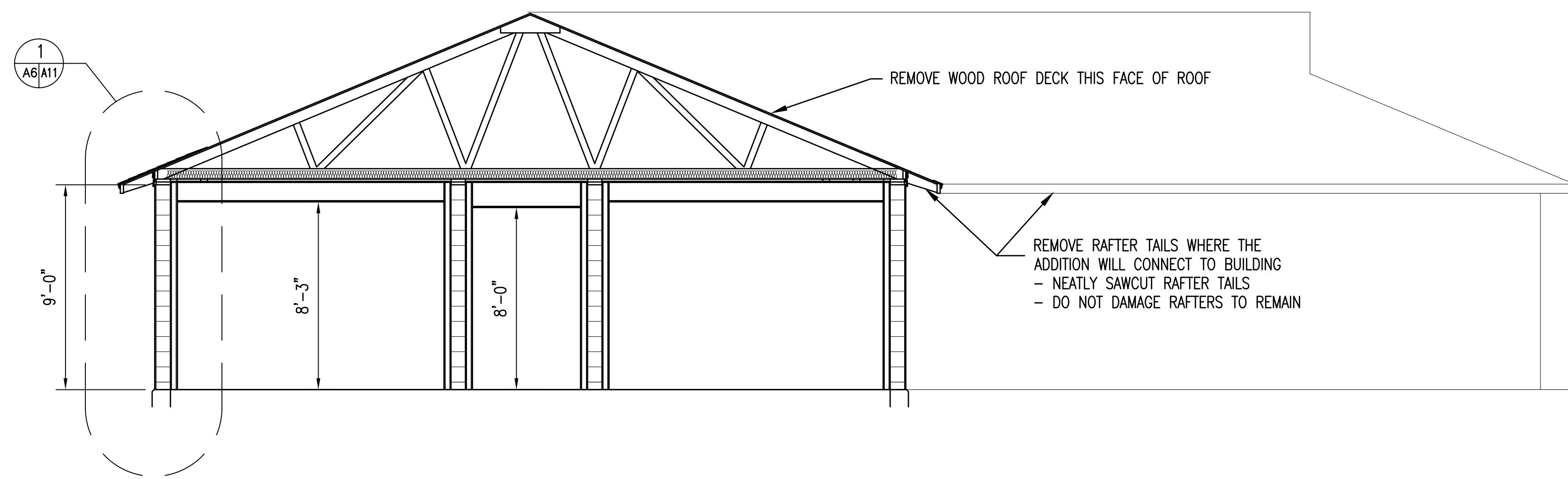
- ① REMOVE EXISTING WINDOWS AND PROVIDE NEW - TYPICAL.
 - ② REMOVE EXISTING SHINGLE ROOF AND PROVIDE NEW STANDING SEAM METAL ROOF SYSTEM - ENTIRE BUILDING.
 - ③ REMOVE DOOR AND FRAME AND PROVIDE NEW.
 - ④ BUILDING ADDITION - SEE FLOOR PLANS AND RELATED DETAILS.
 - ⑤ CLEAN AND PAINT EXISTING EXTERIOR STUCCO FINISH AND BRICK. STUCCO COLOR IS TYPICALLY OFF-WHITE AND BRICK IS RED, VERIFY COLORS WITH CONTRACTING OFFICER.
 - ⑥ REMOVE OVER-BUILT LOUVER DORMERS - SEE NOTES ON ROOF PLAN.
- NOTE: SEE RELATED DETAILS ON OTHER SHEETS.



SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

	SHEET TITLE: EXISTING CONDITIONS PLAN		A-5
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150 SHELBY, N.C.		
	DES. Robert L. Smith III DR. Steven C. Fender CHK. Robert L. Smith III		INTERIOR/EXTERIOR REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA
	SUBMITTED BY: DESIGN DIR. APPROVED:	DATE:	SIZE: F CODE IDENT. NO.: 80091 DATE:

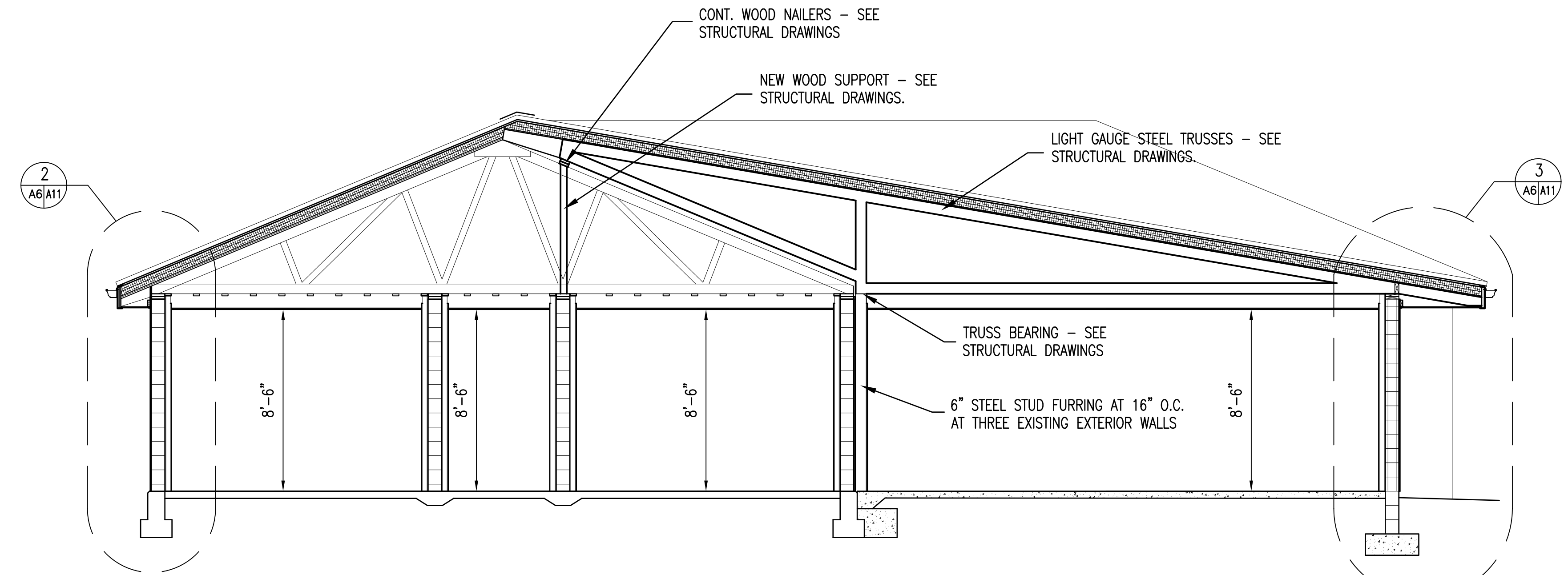
REVISIONS			
SYMBOL	DESCRIPTION	DATE	APPROVED



**EXISTING CONDITIONS
BUILDING SECTION**

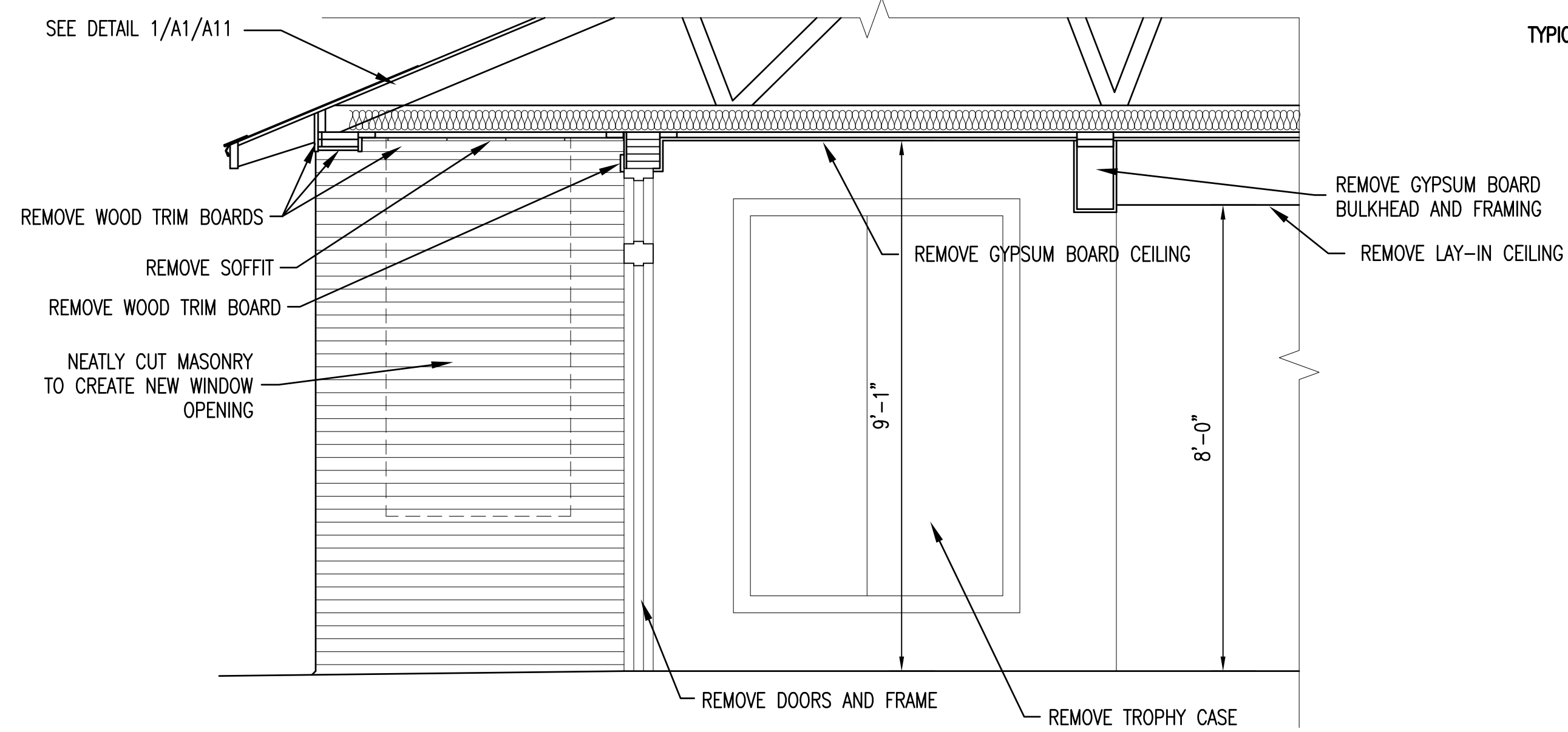
EXISTING FEATURES SHOWN ON THIS SECTION
REMAIN UNLESS INDICATED OTHERWISE

1
A1/A6
A7, A8



**RENOVATED CONDITIONS
BUILDING SECTION**

1/4" = 1'-0"
A2/A6
A7, A8

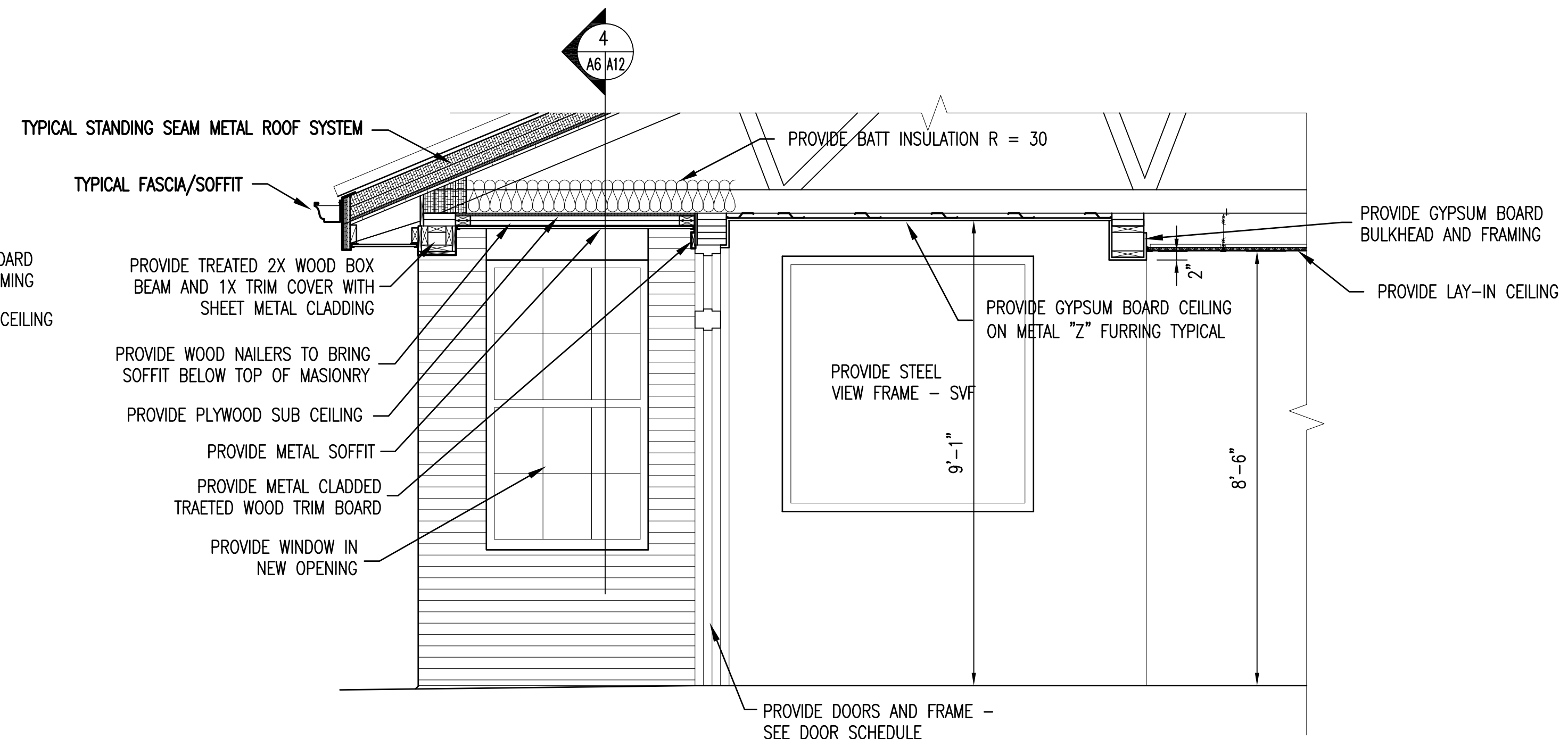


EXISTING SECTION

EXISTING MAIN FRONT ENTRANCE

1/2" = 1'-0"

3
A1/A6

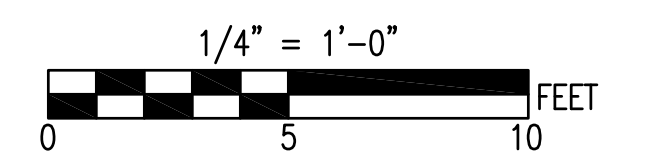
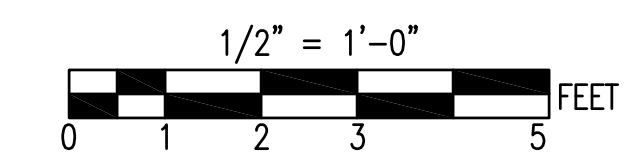


RENOVATED SECTION

RENOVATED MAIN FRONT ENTRANCE

1/2" = 1'-0"

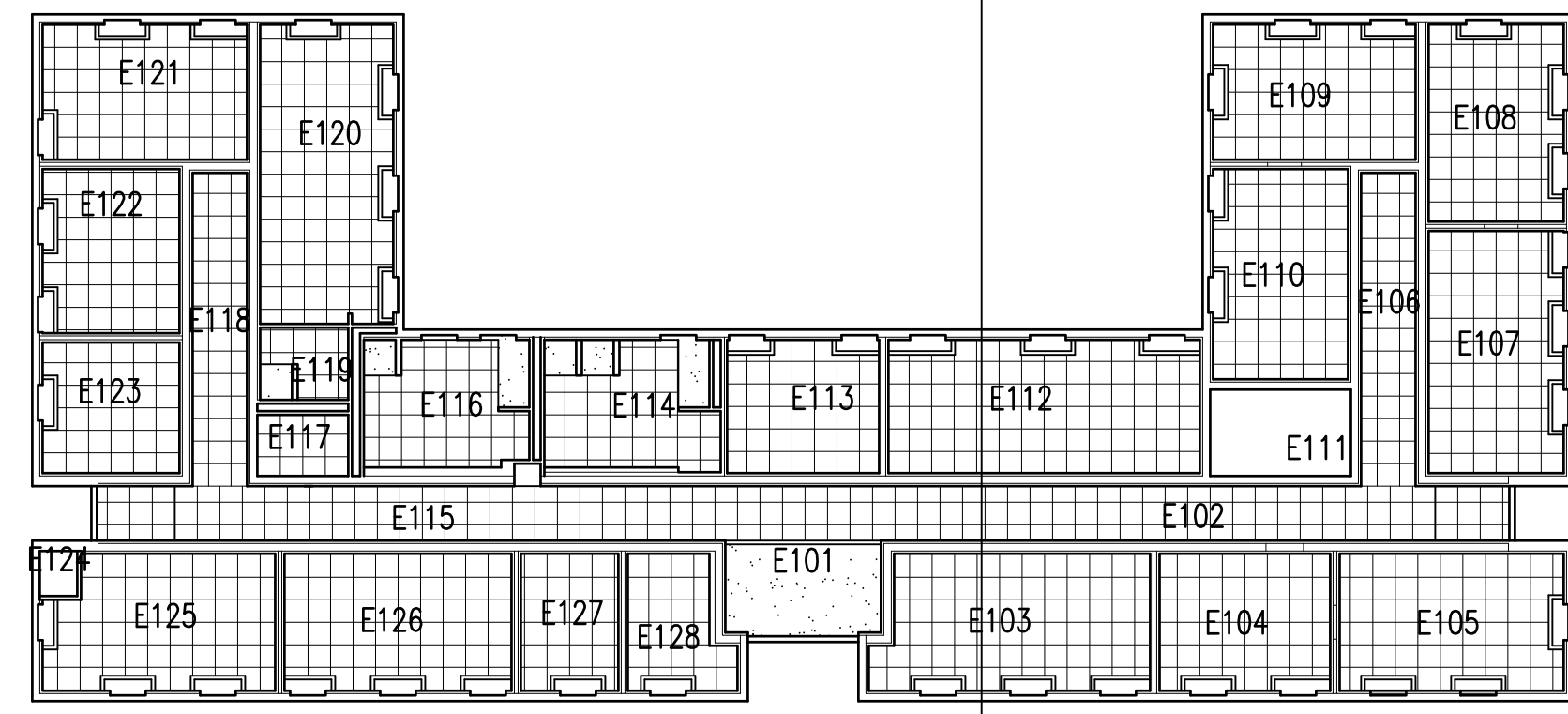
4
A2/A6



SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

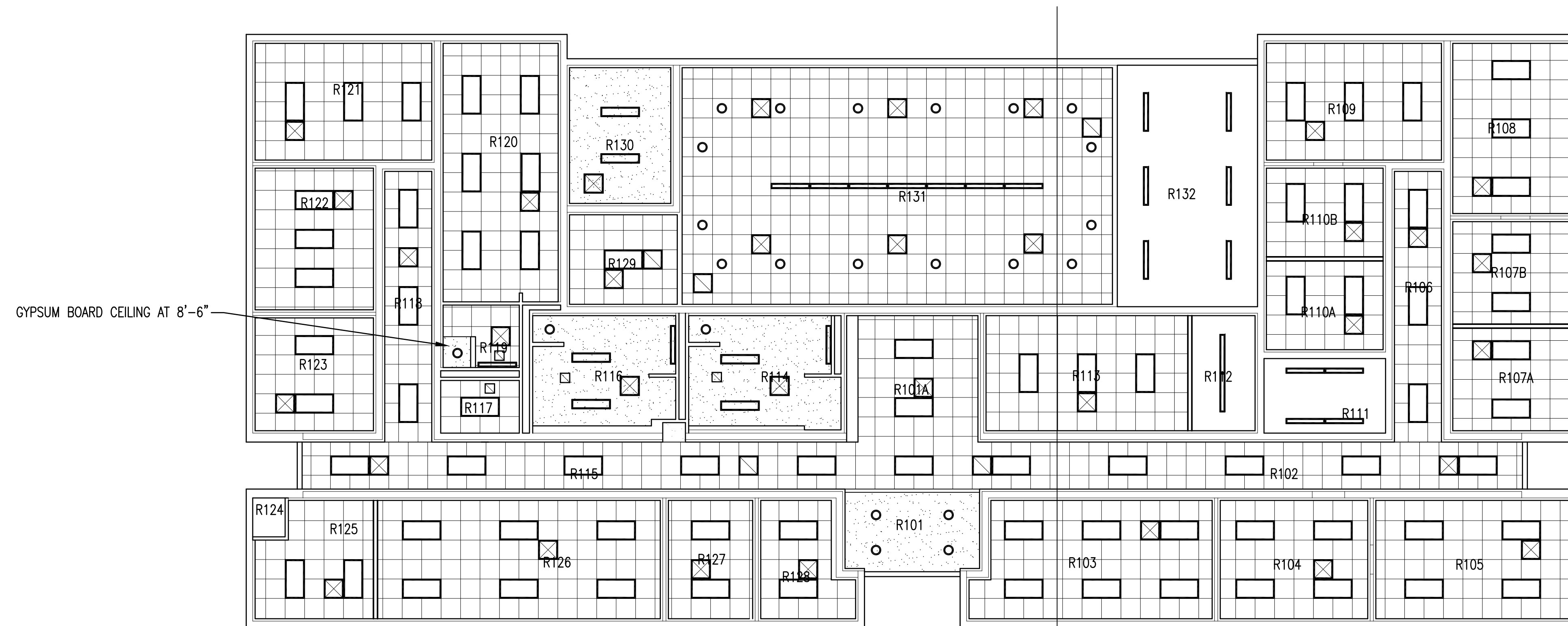
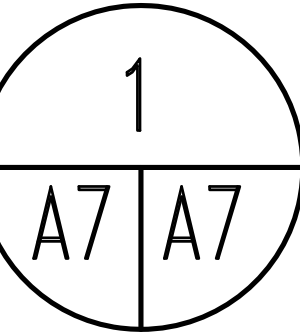
	SHEET TITLE: BUILDING SECTIONS		A-6	
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150 SHELBY, N.C.		DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
DES. Robert L. Smith III DR. Steven C. Fender CHK. Robert L. Smith III		INTERIOR/EXTERIOR REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA		
SUBMITTED BY: DESIGN DIR. APPROVED:		DATE	SIZE: F	CODE IDENT. NO.: 80091
SATISFACTORY TO:		DATE	SCALE: NOTED	NAVFAC DRAWING NO.: 60024512
06/24/2019		DATE	SPEC: 05-19-0025	CONST. CONTR. NO. N40085-19-B-0025
				SHEET 13 OF 59

REVISIONS		
SYL	DATE	APPROVED



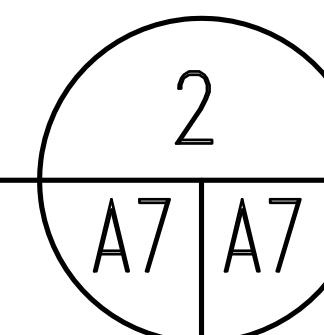
EXISTING CONDITIONS CEILING PLAN

1/16" = 1'-0"



RENOVATED CONDITIONS CEILING PLAN

1/8" = 1'-0"



GENERAL NOTES CONCERNING THIS SHEET:
 1. REMOVE EXISTING LAY-IN AND GYPSUM BOARD CEILINGS COMPLETE. AND PROVIDE NEW AS INDICATED.

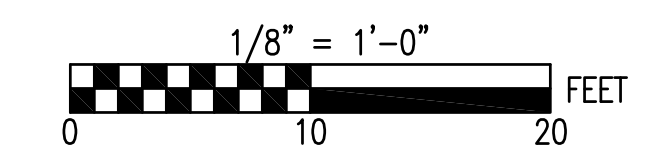
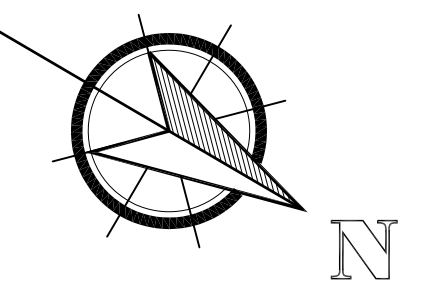
CEILING HEIGHTS:
 - GYPSUM BOARD WILL BE AT 9'-1"
 - ACOUSTICAL LAY-IN CEILINGS WILL BE AT 8'-6"

EXISTING CONDITIONS CEILING PLAN LEGEND

- 2' x 2' LAY-IN TILE CEILING GRID
- GYPSUM BOARD
- OPEN TO STRUCTURE
- LIGHT FIXTURES SEE ELECT. DWGS.
- HVAC AND EXHAUST GRILLES SEE MECH. DRAWINGS

CEILING PLAN LEGEND

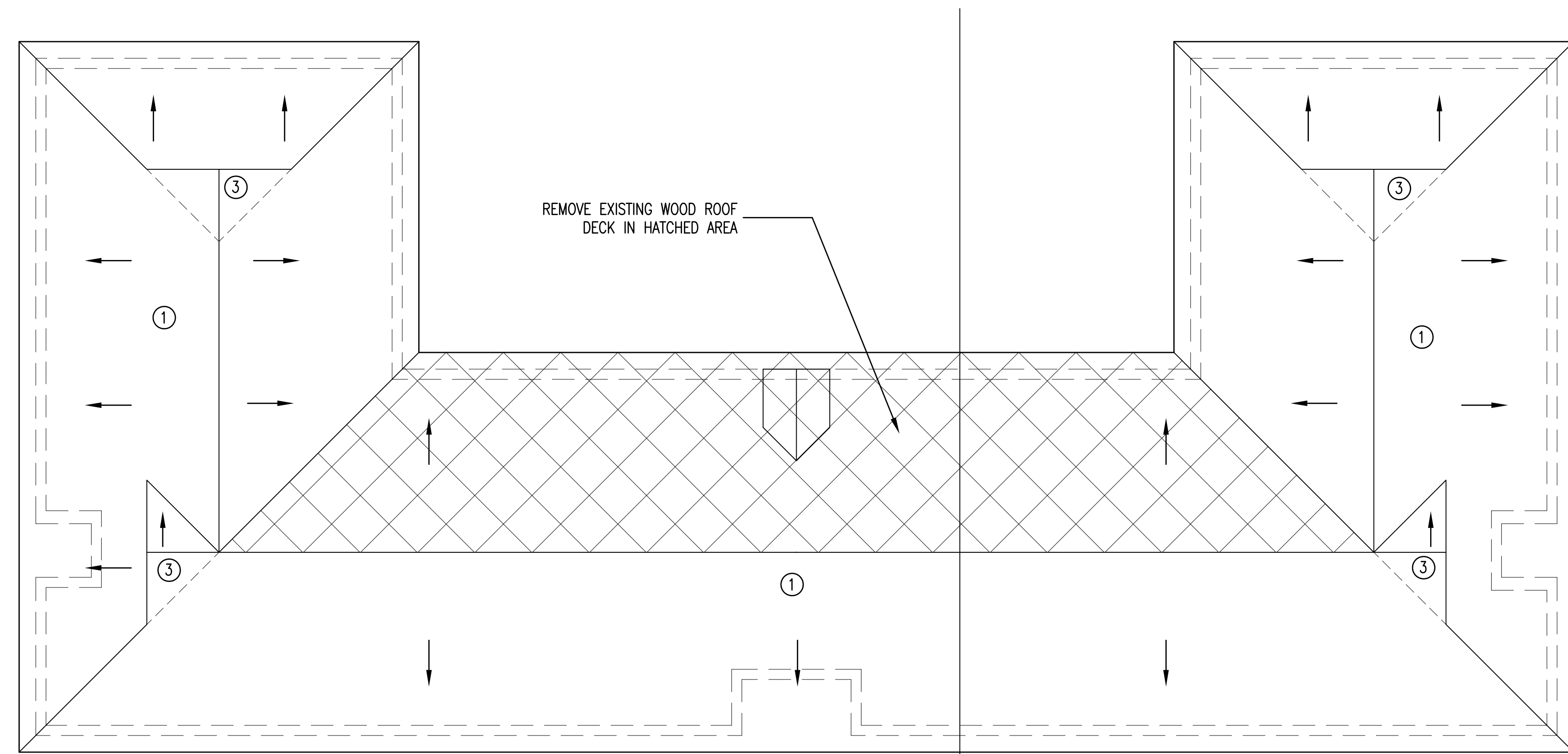
THE CEILING PLANS ARE INTENDED TO SHOW MAJOR CEILING COMPONENTS FOR COORDINATION OF ALL TRADES. NOT ALL CEILING COMPONENTS ARE SHOWN NOR DO ALL THE COMPONENTS SHOWN ON THE LEGEND NECESSARILY OCCUR ON THIS PROJECT. SEE ALL DRAWINGS FOR COMPONENTS THAT OCCUR ON THE CEILINGS.



SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

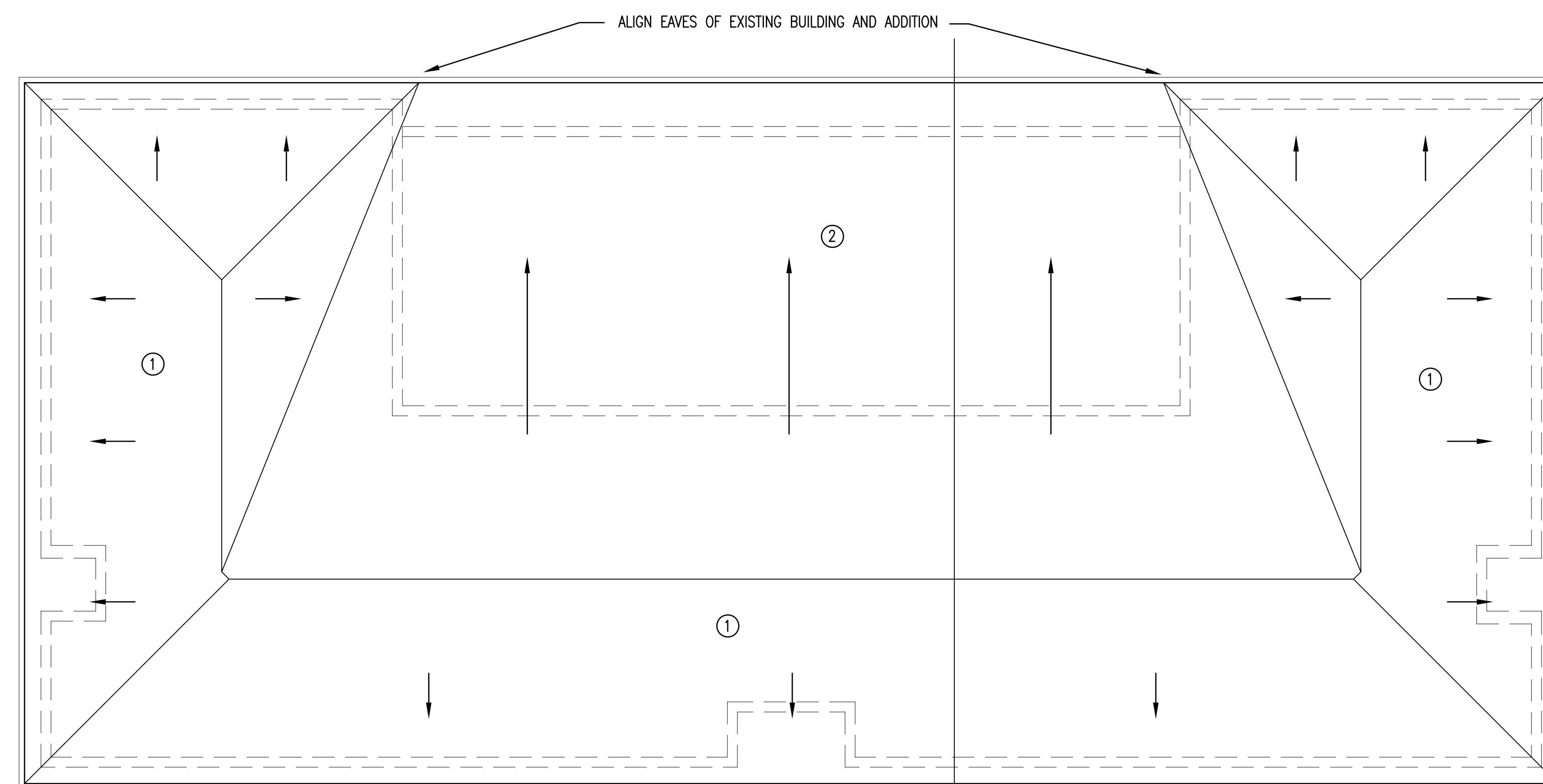
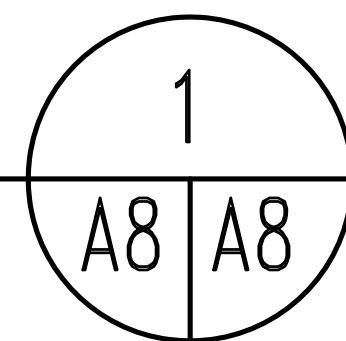
	SHEET TITLE: CEILING PLANS		A-7	
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150 SHELBY, N.C.		DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
DES. Robert L. Smith III DR. Steven C. Fender CHK. Robert L. Smith III		INTERIOR/EXTERIOR REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA		
DESIGN DIR. APPROVED: _____ DATE _____		SIZE: F	CODE IDENT. NO.: 80091	NAVFAC DRAWING NO.: 60024513
SATISFACTORY TO: _____ DATE _____		SCALE: NOTED	SPEC: 05-19-0025	SHEET 14 OF 59

REVISIONS		
SYMBOL	DATE	APPROVED



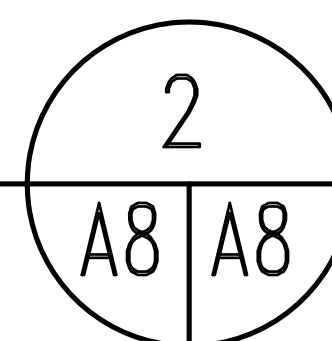
EXISTING CONDITIONS ROOF PLAN

1/8" = 1'-0"



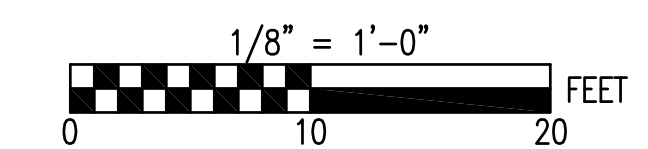
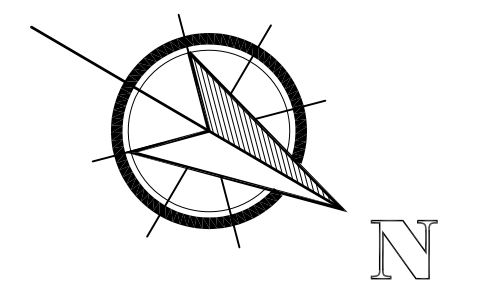
RENOVATED CONDITIONS ROOF PLAN

1/8" = 1'-0"



NUMBERED NOTES ON THIS SHEET:

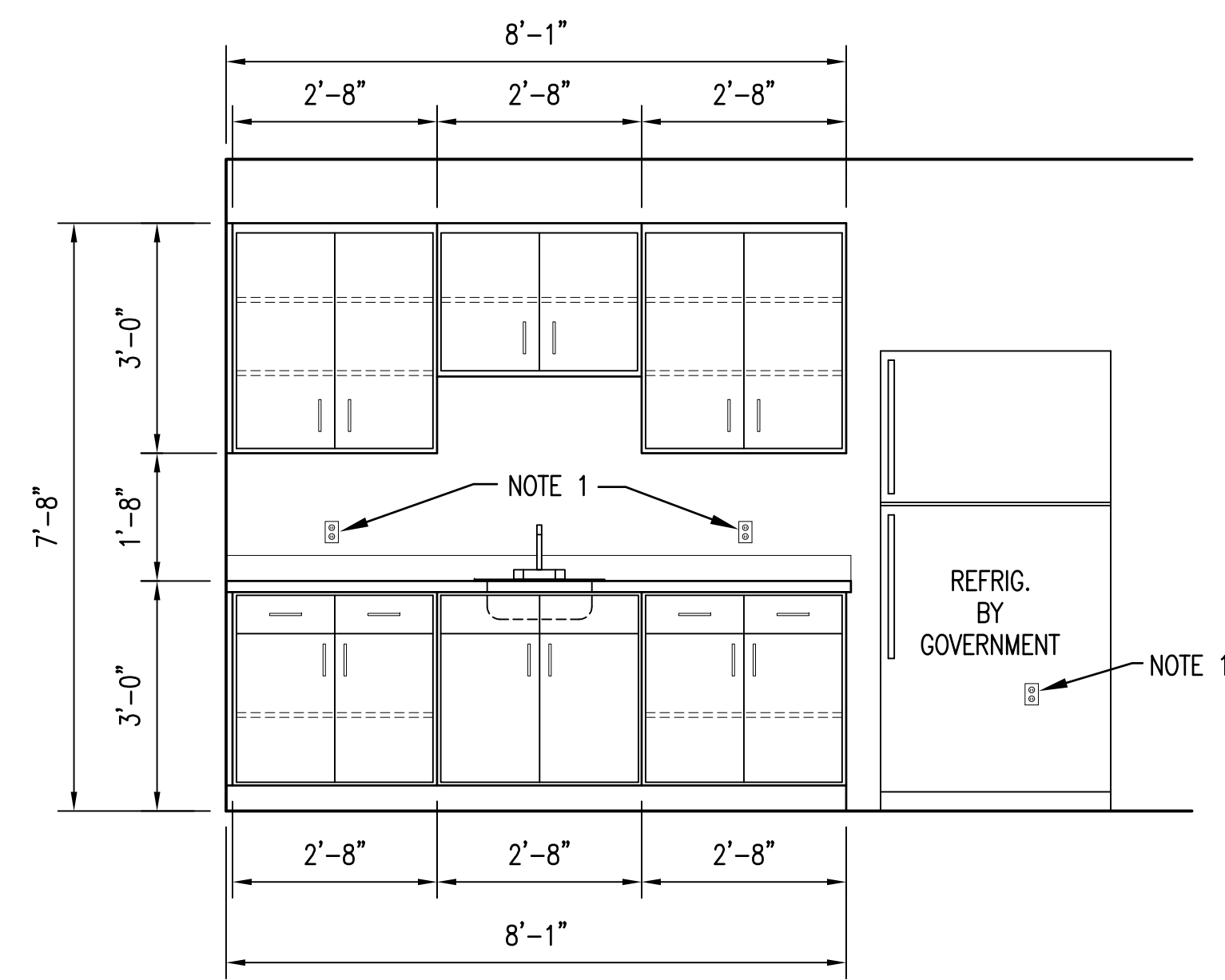
- ① REMOVE EXISTING SHINGLE ROOF AND PROVIDE NEW STANDING SEAM METAL ROOF SYSTEM.
- ② BUILDING ADDITION.
- ③ REMOVE EXISTING OVER-BUILT LOUVER DORMERS. THE ORIGINAL BUILDING PLANS SHOW THE ROOF STRUCTURE AS A HIP ROOF WITH THE LOUVER DORMERS OVER-BUILT ONTO THE ROOF. CONTRACTOR SHALL FIELD VERIFY THIS IS THE EXISTING CONDITIONS BEFORE REMOVING THE DORMERS. THE INTENT IS TO NOT MODIFY OR ALTER THE EXISTING WOOD TRUSSES.



SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

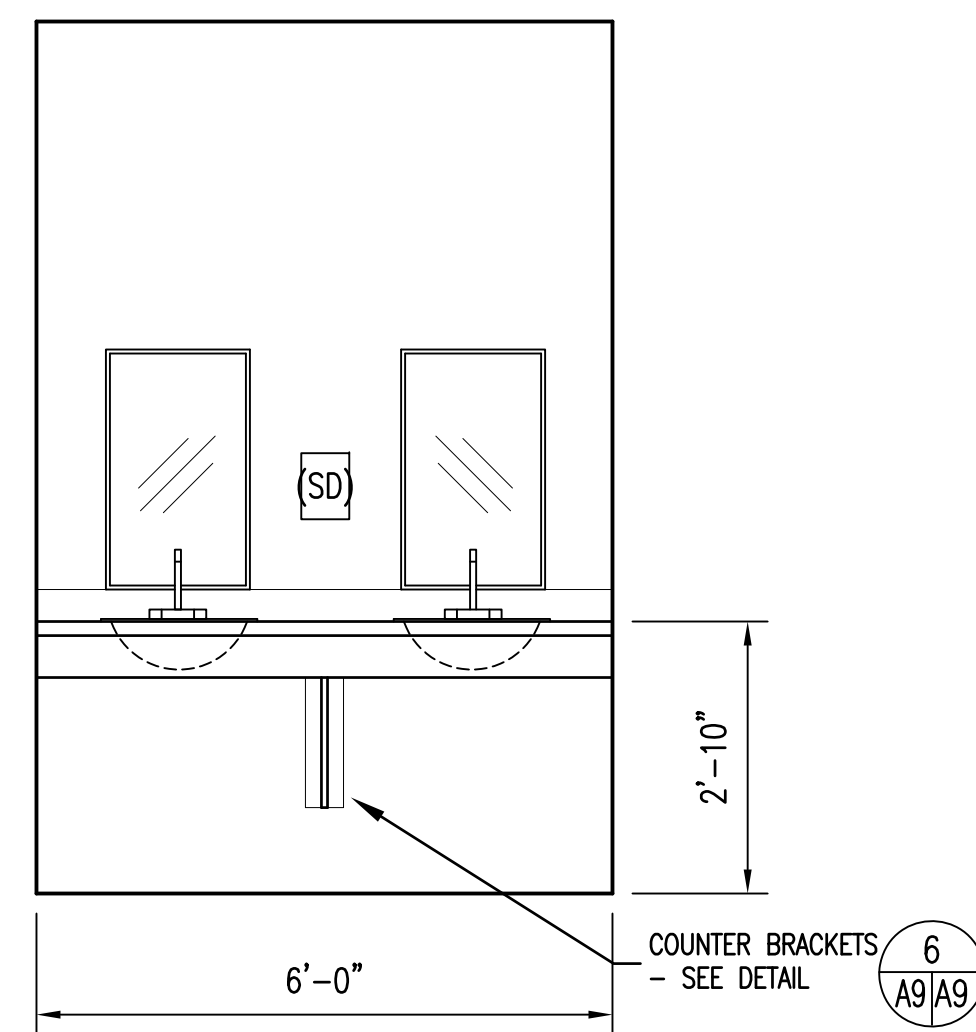
	SHEET TITLE: ROOF PLANS		A-8	
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150 SHELBY, N.C.		DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
DES. Robert L. Smith III DR. Steven C. Fender CHK. Robert L. Smith III SUBMITTED BY: DESIGN DIR. APPROVED: _____ DATE _____ SATISFACTORY TO: _____ DATE _____		INTERIOR/EXTERIOR REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA		
06/24/2019		SIZE: F CODE IDENT. NO.: 80091	NAVFAC DRAWING NO.: 60024514 CONST. CONTR. NO.: N40085-19-B-0025	SHEET 15 OF 59

REVISIONS		
SYL	DATE	APPROVED

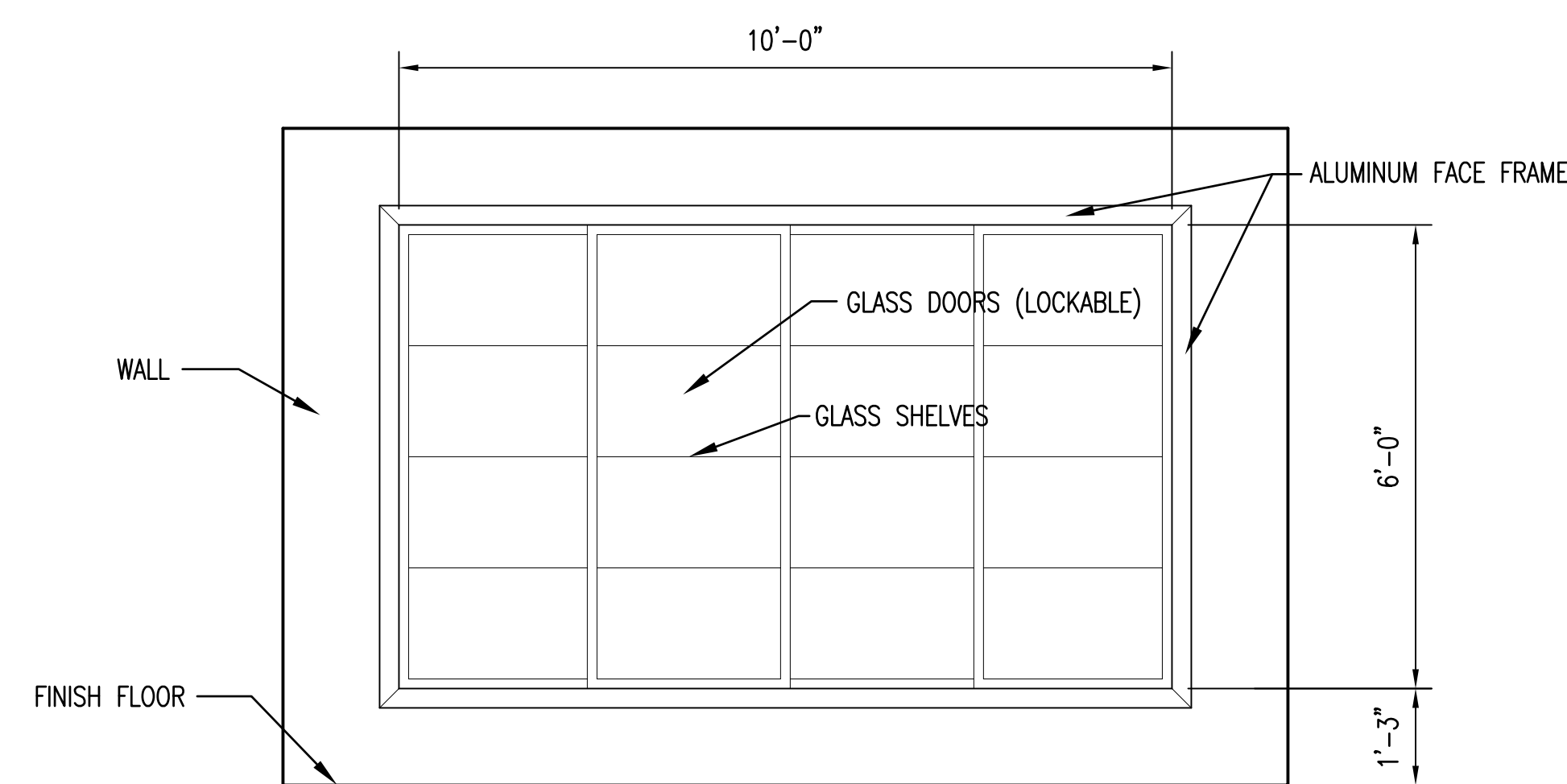


ELEVATION 3
1/2" = 1'-0" A2/A9

NOTES:
1. RECEPTACLE



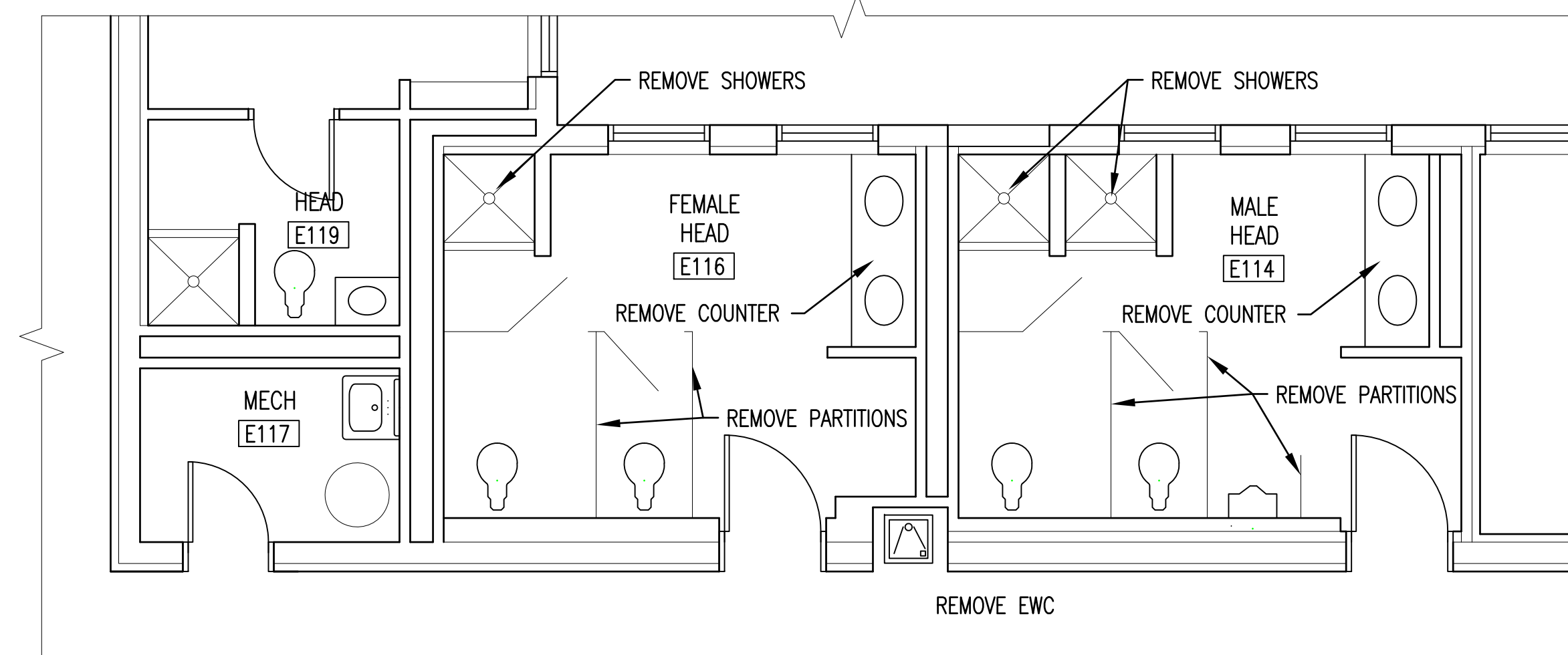
ELEVATION 4
1/2" = 1'-0" A2/A9



ELEVATION 5
TROPHY CASE 1/2" = 1'-0" A2/A9

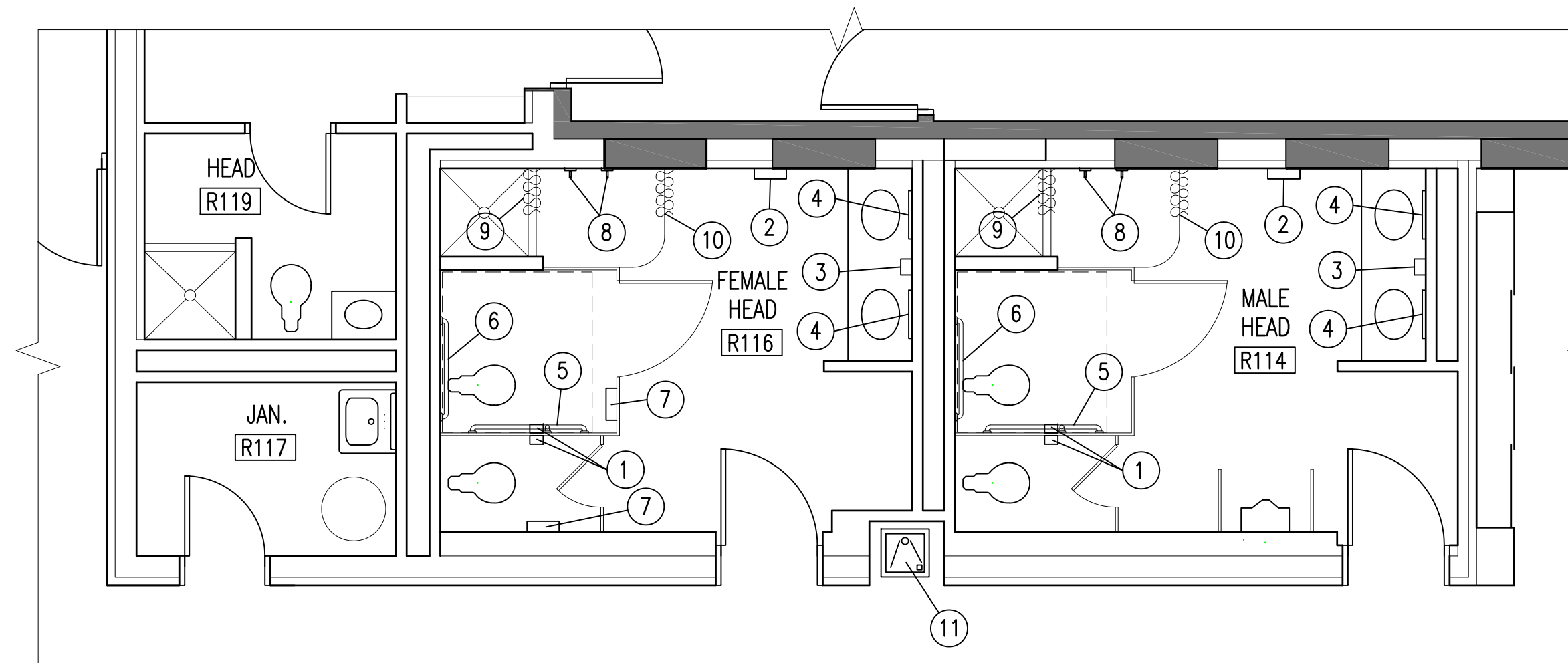
NOTES RELATED TO THE TROPHY CASE:

1. PROVIDE MANUFACTURED ALUMINUM TROPHY CASE WITH CLEAR ANODIZED ALUMINUM FRAME AND MITERED CORNERS.
2. PROVIDE STUD FRAMING TO SUPPORT WALL MOUNTED 600 LB CASE.
3. PROVIDE TACKABLE BACK PANELS.
4. PROVIDE 1/4" TEMPERED GLASS SLIDING DOORS WITH LOCK AND KEY.
5. PROVIDE 10" DEEP WIDE GLASS SHELVES WITH STANDARDS AND BRACKETS.
6. PROVIDE STANDARD MANUFACTURER'S WARRANTY.



NOTE: REMOVE EXISTING PLUMBING FIXTURES AND PROVIDE NEW - SEE PLUMBING DRAWINGS.

EXISTING ENLARGED TOILET PLAN 1
1/4" = 1'-0" A1/A9

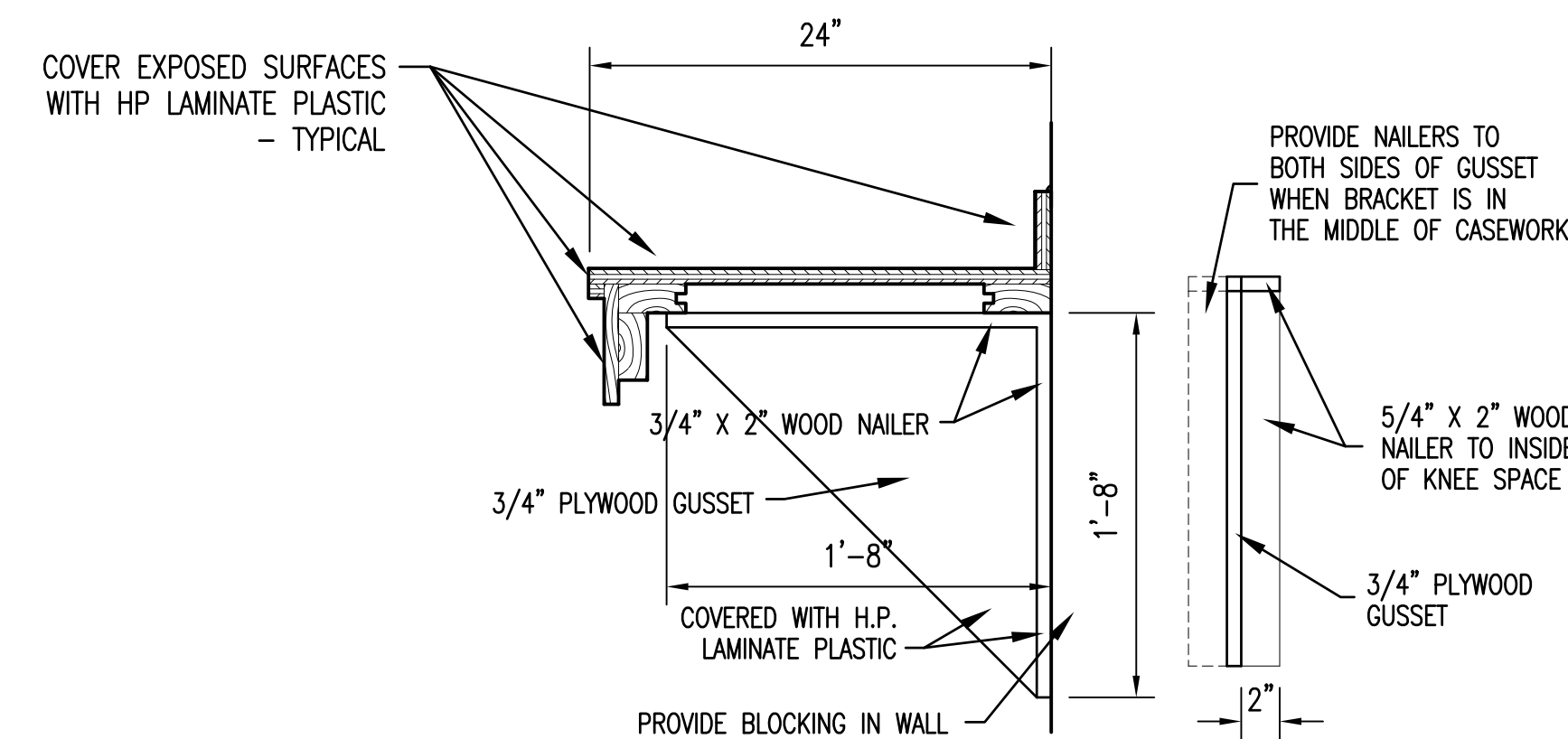


RENOVATED ENLARGED TOILET PLAN 2
1/4" = 1'-0" A2/A9

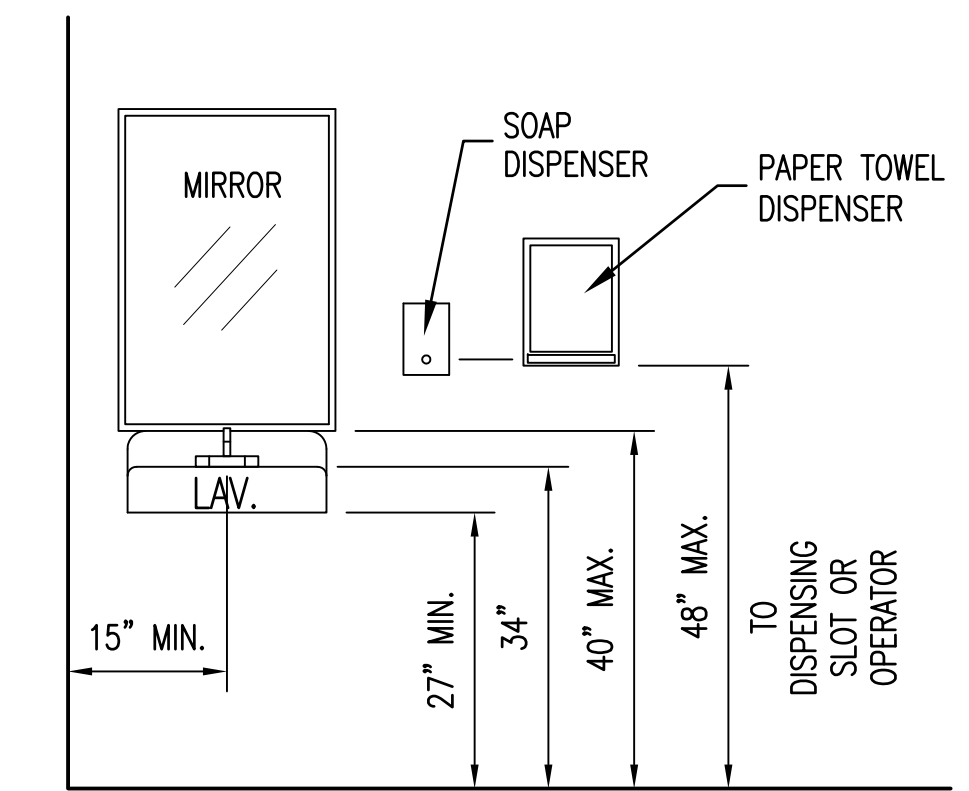
TOILET ACCESSORIES:

- | | | |
|--------------------------|----------------------------|--------------------------------------|
| 1 TOILET PAPER DISPENSER | 5 42" & 18" GRAB BARS | 9 SHOWER CURTAIN AND ROD |
| 2 PAPER TOWEL DISPENSER | 6 36" GRAB BAR | 10 PRIVACY CURTAIN AND CEILING TRACK |
| 3 SOAP DISPENSER | 7 SANITARY NAPKIN DISPOSER | 11 ENC WITH BOTTLE FILLER |
| 4 24" x 36" MIRROR | 8 TOWEL HOOK | |

TOILET ACCESSORIES SHOWN ON DRAWINGS ARE TO INDICATE LOCATIONS AND ITEMS REQUIRED. SIZES OF TOILET ACCESSORIES SHOWN MAY OR MAY NOT MATCH ITEMS SPECIFIED TO BE PROVIDED.

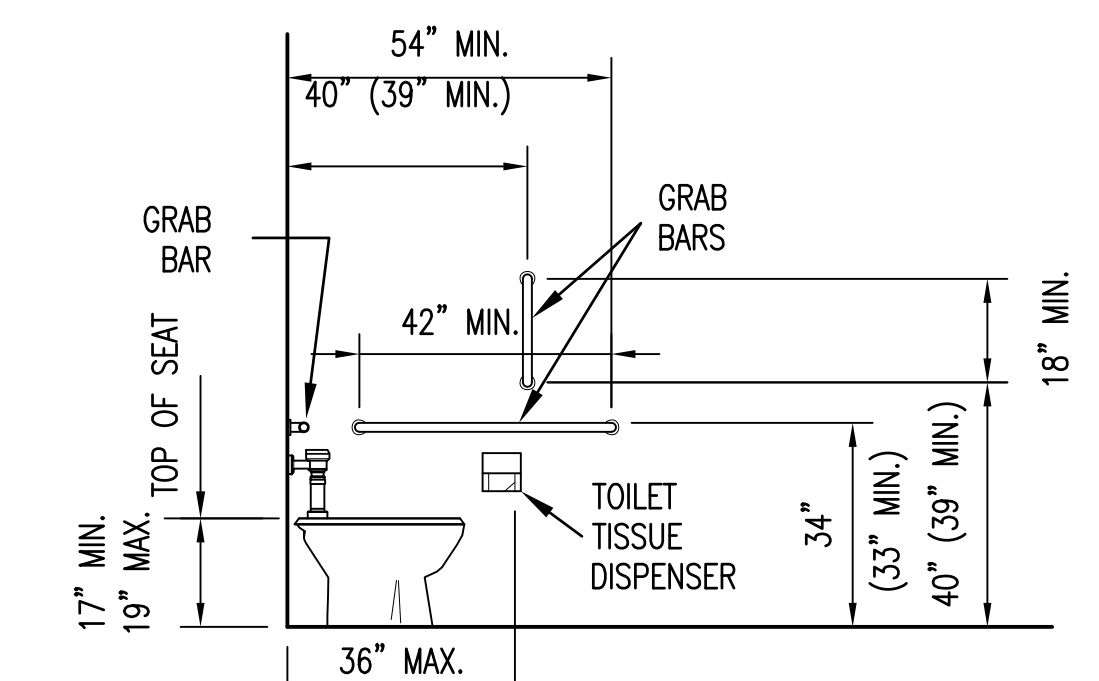


WOOD BRACKET DETAIL 6
NOT TO SCALE A9/A9



VERIFY LOCATION OF ITEMS ON PLAN

DETAIL @ H/C LAVATORY



TYPICAL FOR HANDICAPPED STALLS

H/C TOILET DETAIL

TOILET ACCESSORY MOUNTING HEIGHTS

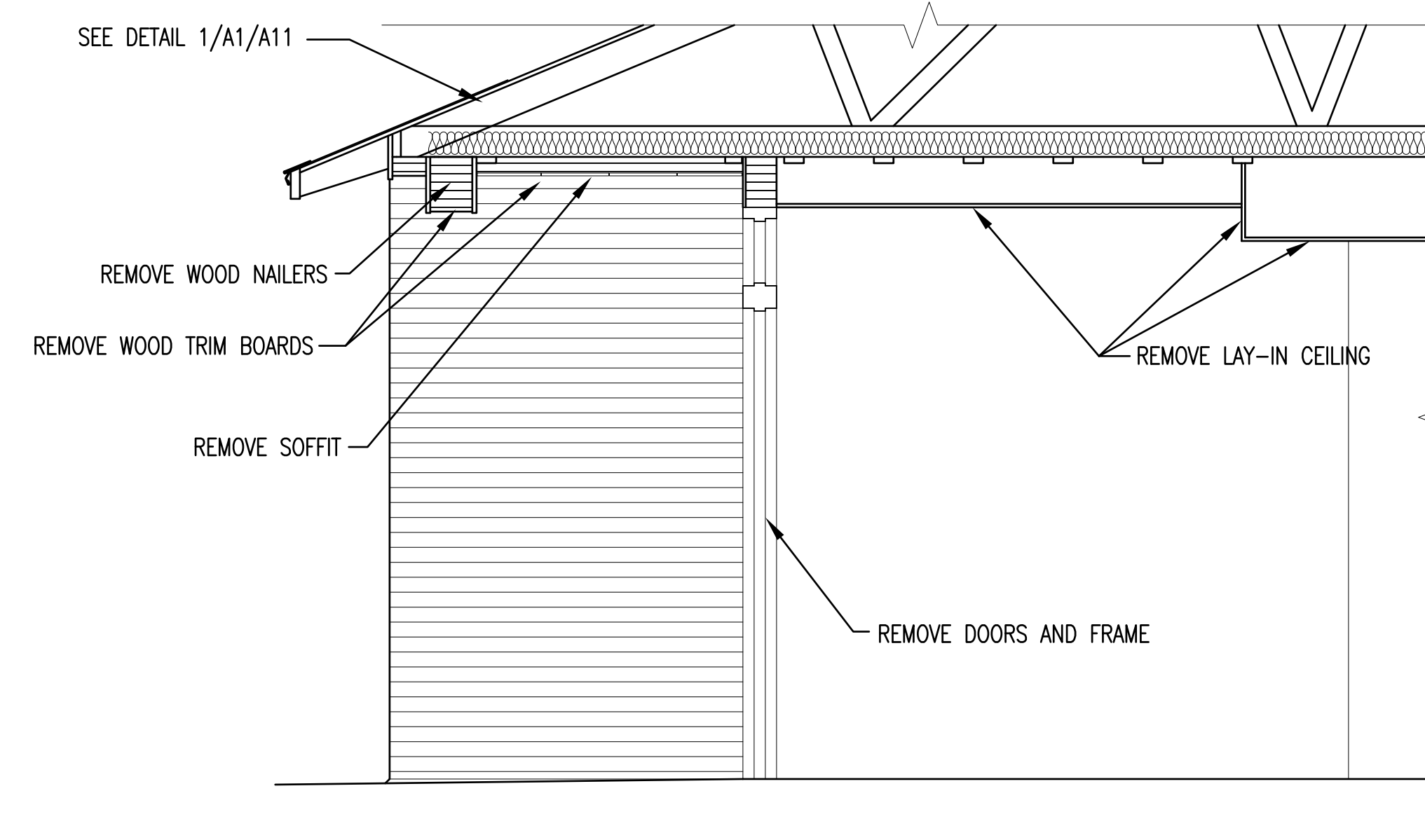
NOT TO SCALE



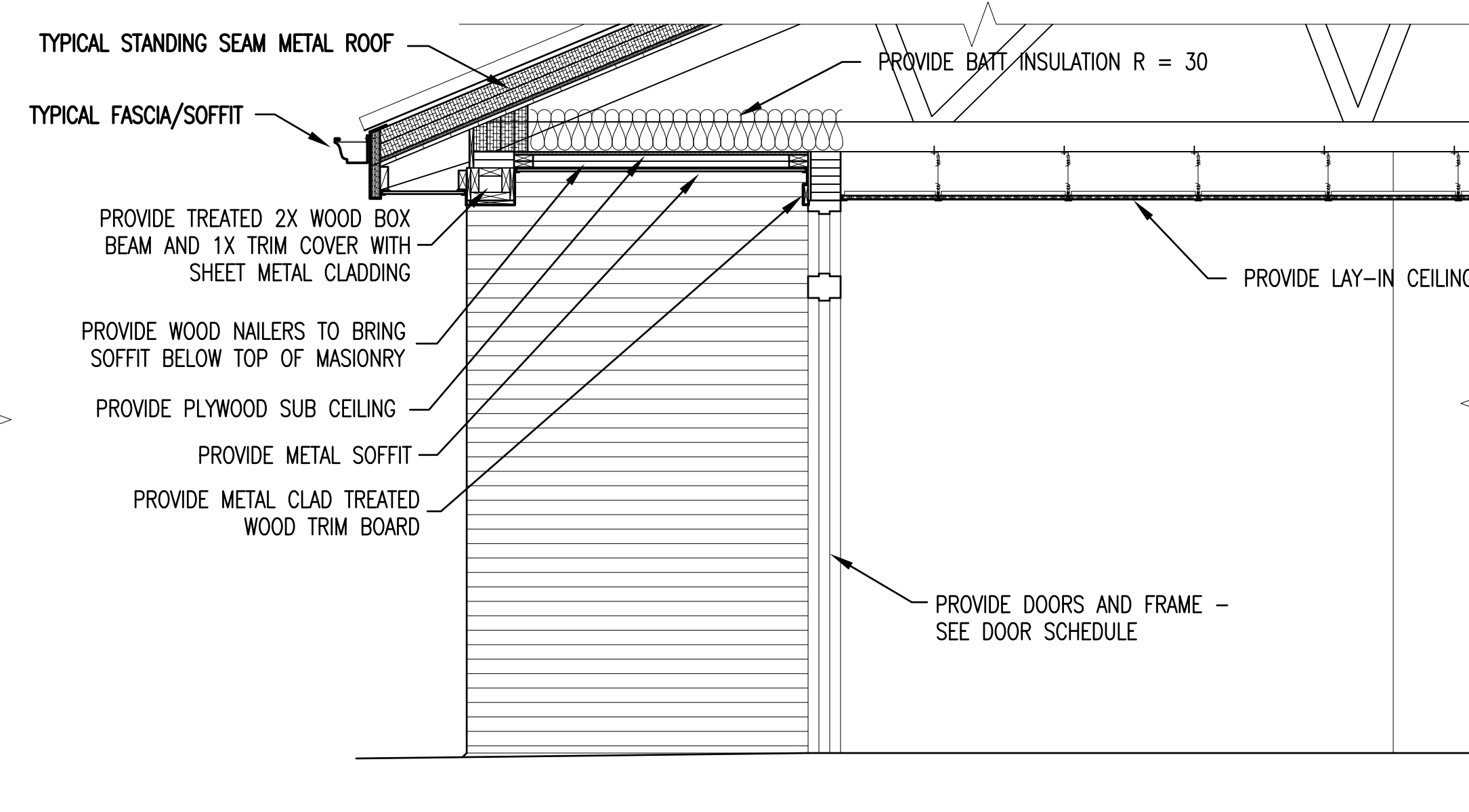
SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

	SHEET TITLE: ENLARGER TOILET PLANS		A-9
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150		
	DES. Robert L. Smith III		INTERIOR/EXTERIOR REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA
	DR. Steven C. Fender		
SUBMITTED BY:		DATE	SIZE
APPROVED:		DATE	CODE IDENT. NO.
SATISFACTORY TO:		DATE	NAVFAC DRAWING NO.
06/24/2019			60024515
		SCALE: NOTED	SPEC: 05-19-0025
			SHEET 16 OF 59

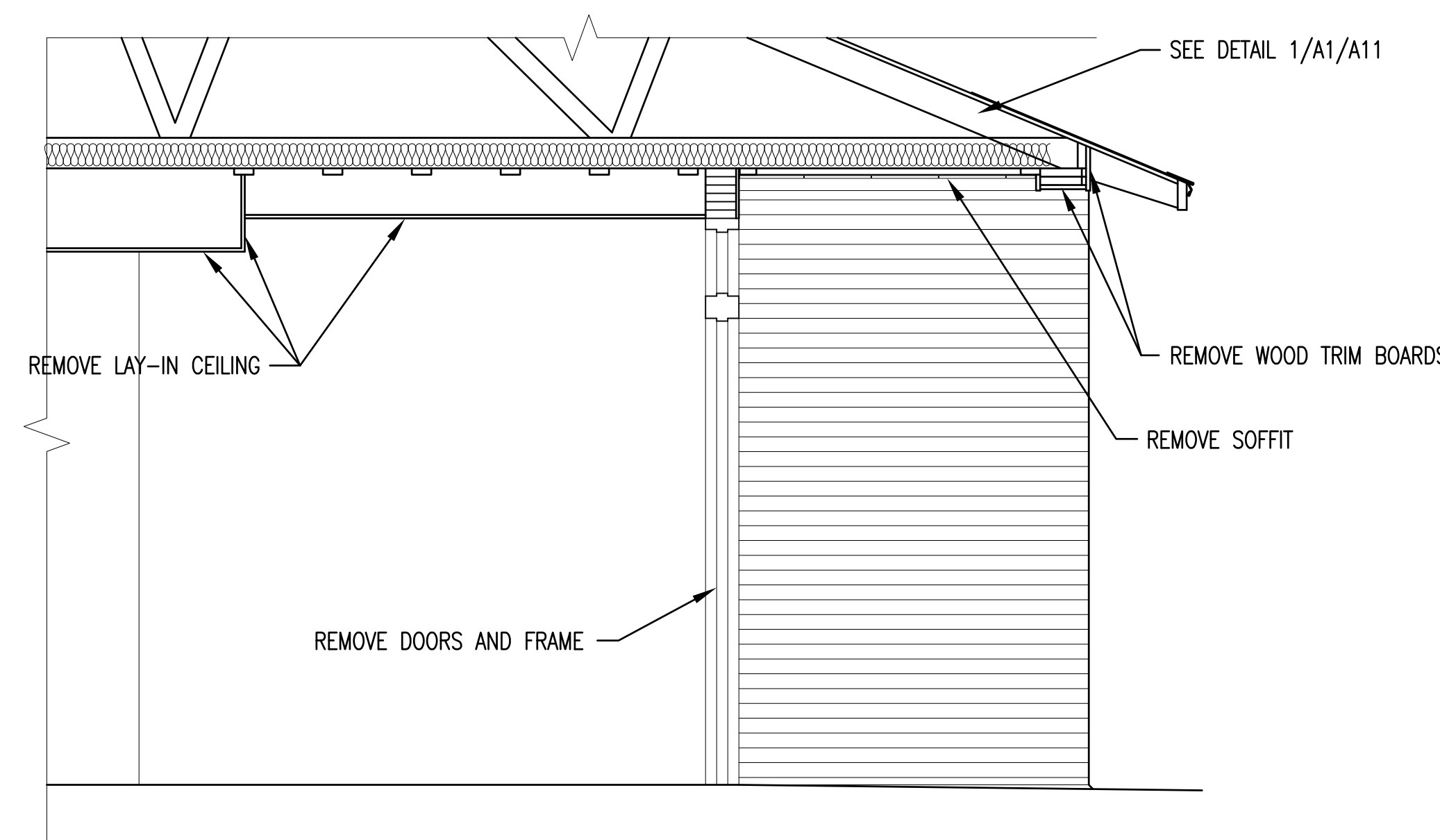
REVISIONS		
SYMBOL	DATE	APPROVED



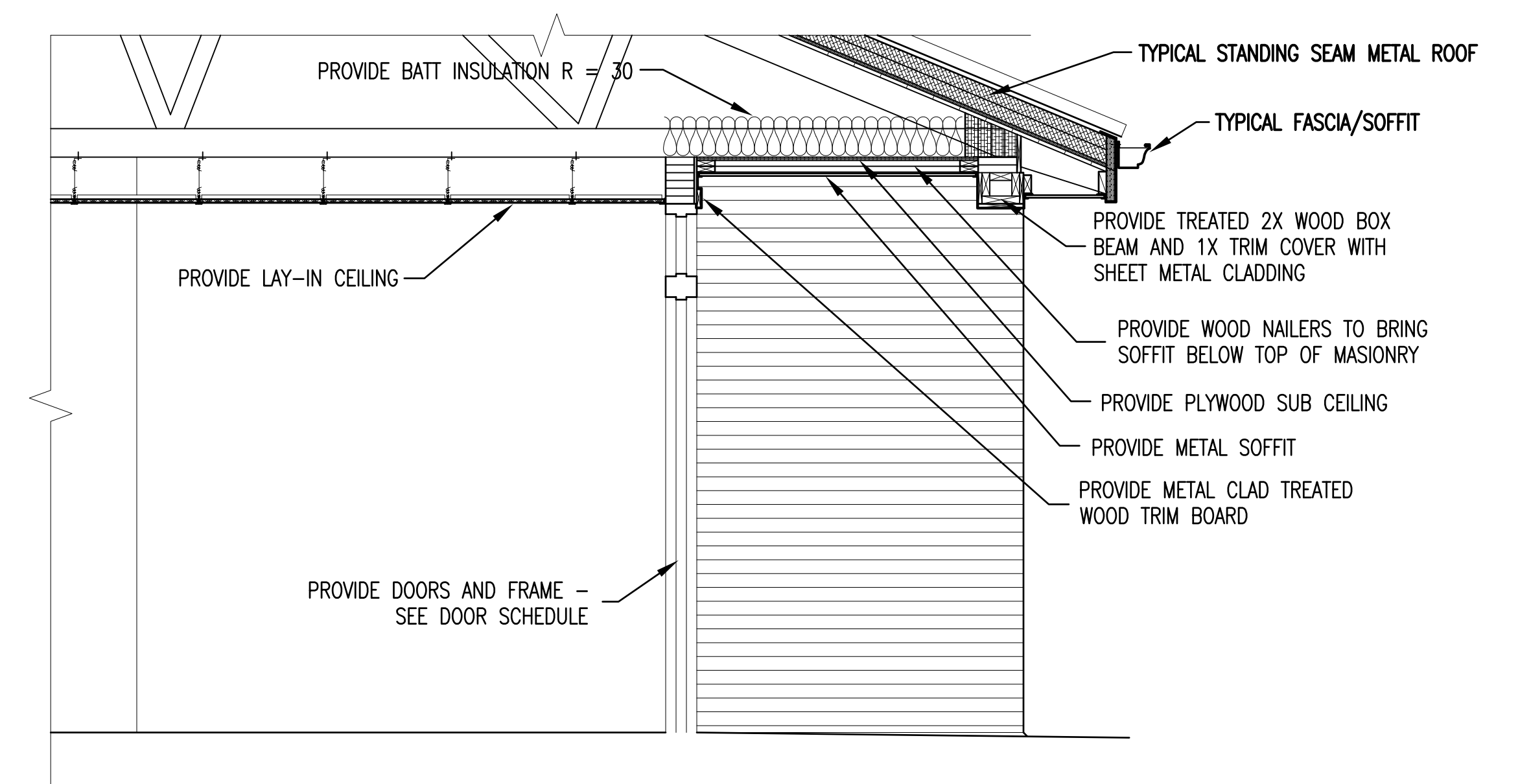
EXISTING SECTION 1
EXISTING LEFT SIDE ENTRANCE
1/2" = 1'-0" A1/A10



RENOVATED SECTION 2
RENOVATED LEFT SIDE ENTRANCE
1/2" = 1'-0" A2/A10



EXISTING SECTION 3
EXISTING RIGHT SIDE ENTRANCE
1/2" = 1'-0" A1/A10



RENOVATED SECTION 4
RENOVATED RIGHT SIDE ENTRANCE
1/2" = 1'-0" A2/A10

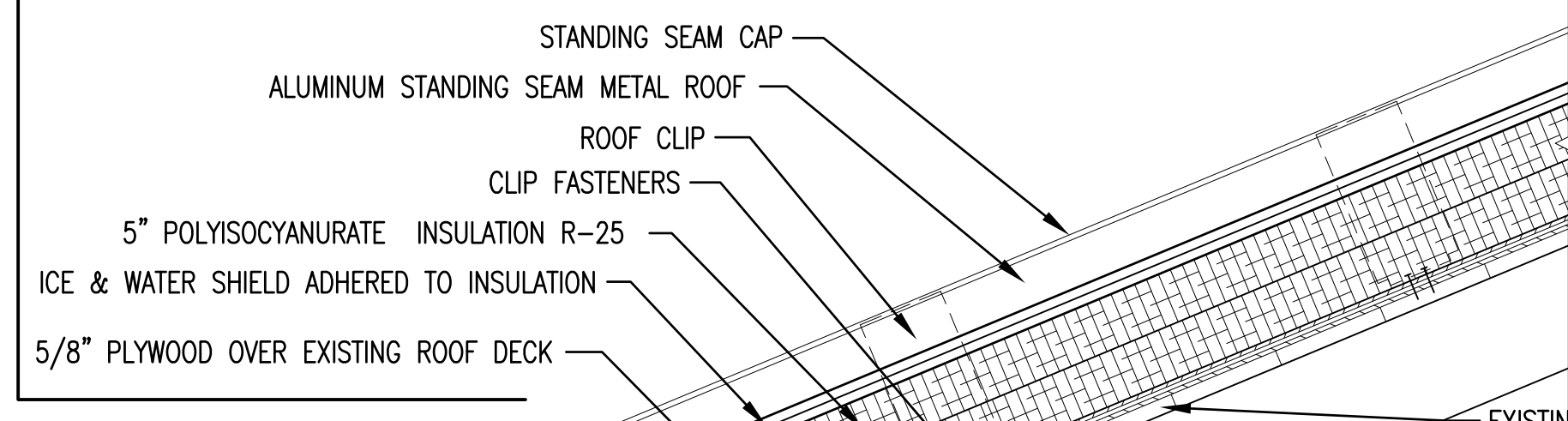


SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

	SHEET TITLE: BUILDING SECTIONS		A-10
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150 DES. Robert L. Smith III DR. Steven C. Fender CHK. Robert L. Smith III SUBMITTED BY: DESIGN DIR. APPROVED: SATISFACTORY TO:		
	DATE: 06/24/2019 SCALE: NOTED	CODE IDENT. NO.: 80091 NAVFAC DRAWING NO.: 60024516 CONST. CONTR. NO.: N40085-19-B-0025 SPEC: 05-19-0025	SHEET 17 OF 59

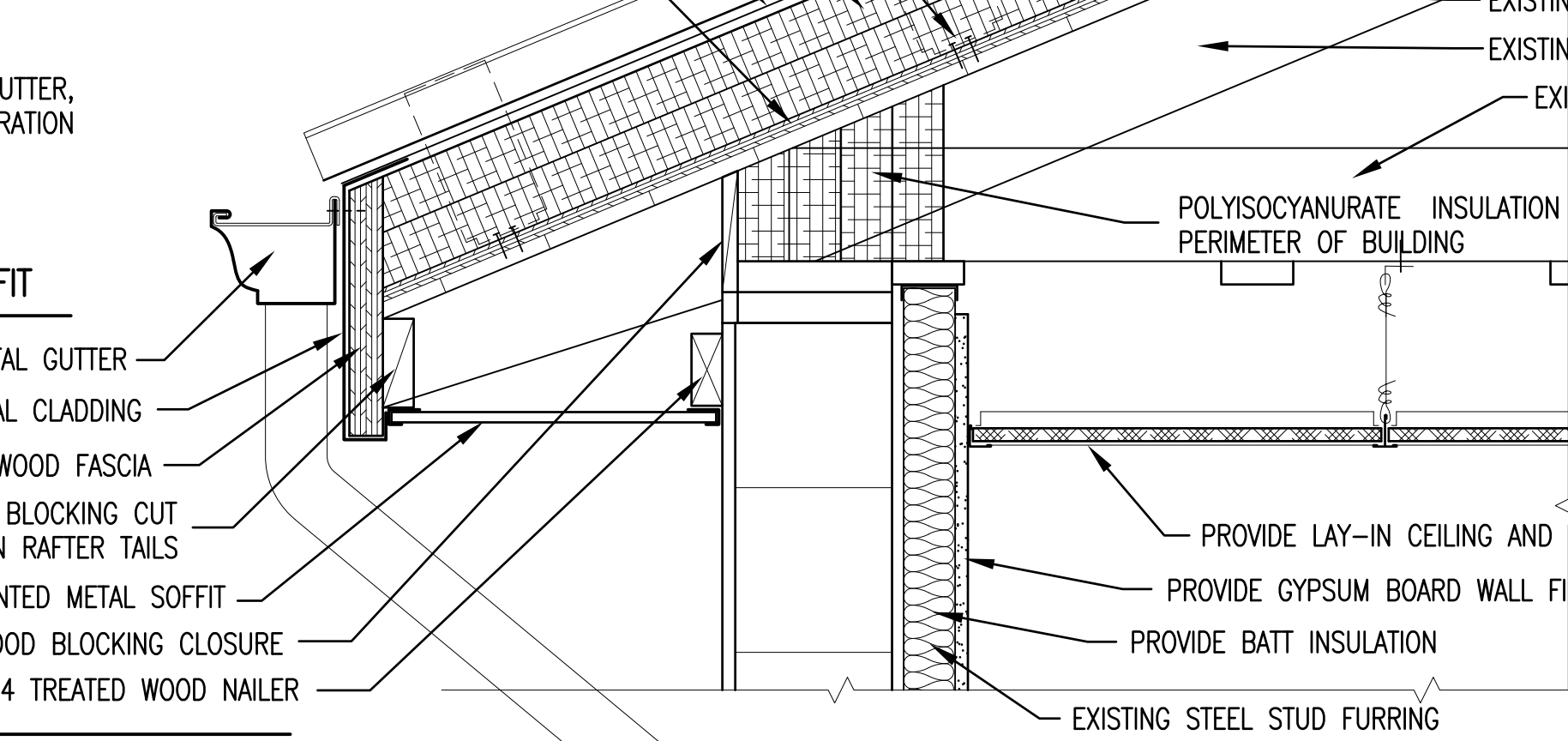
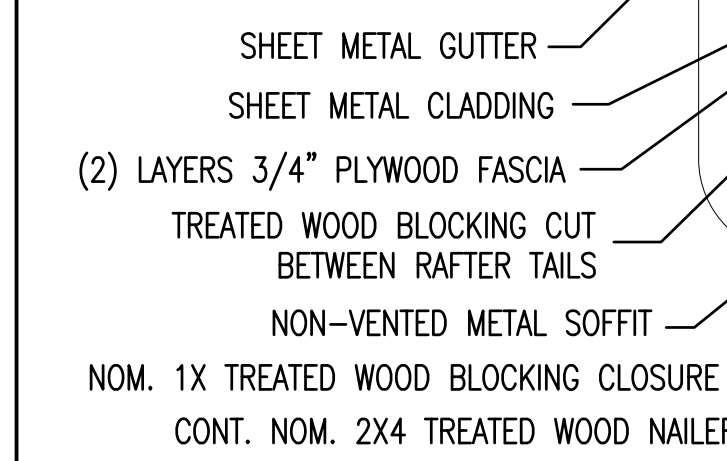
REVISIONS		
SYL	DATE	APPROVED

TYPICAL STANDING SEAM METAL ROOF

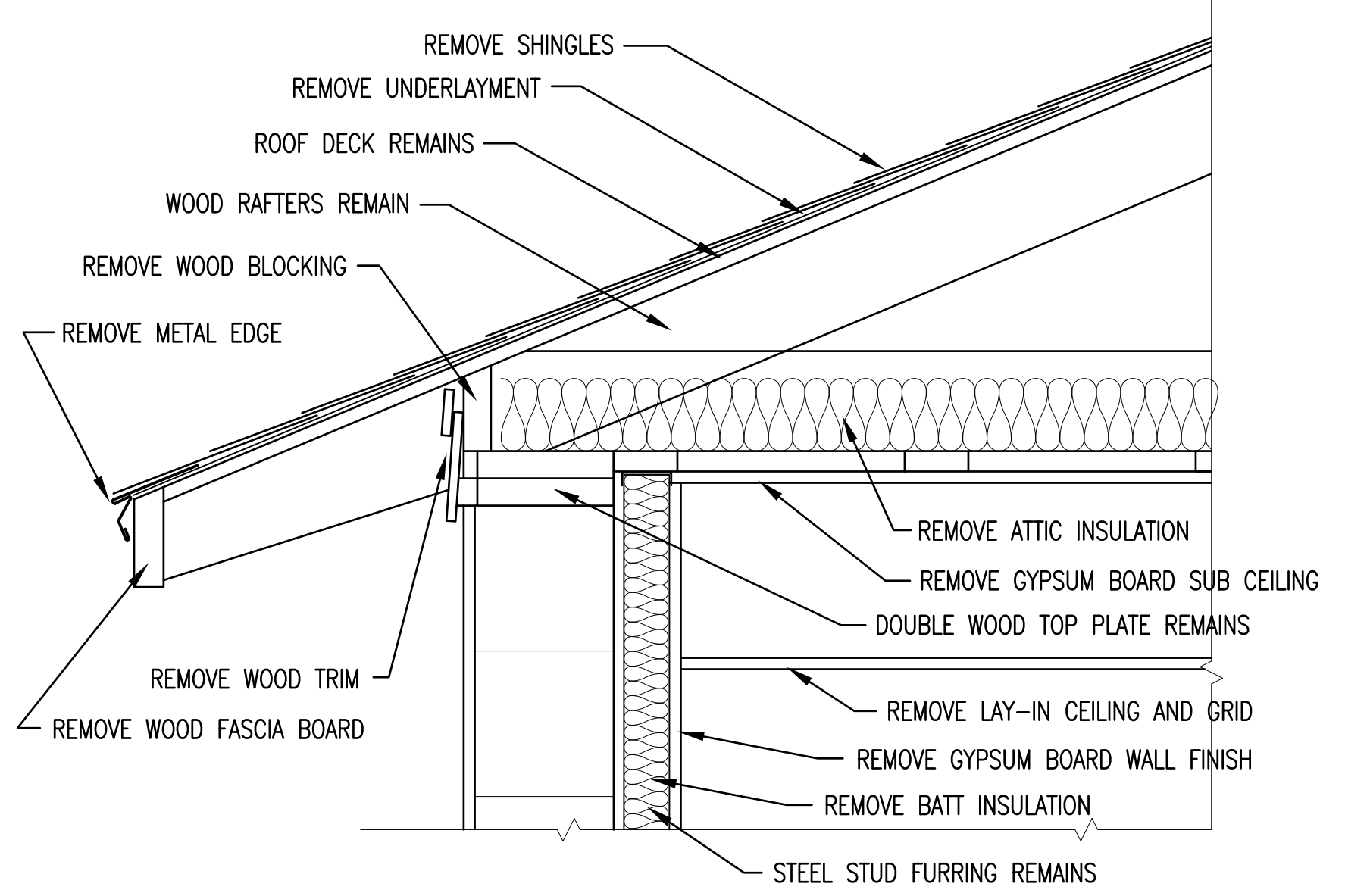
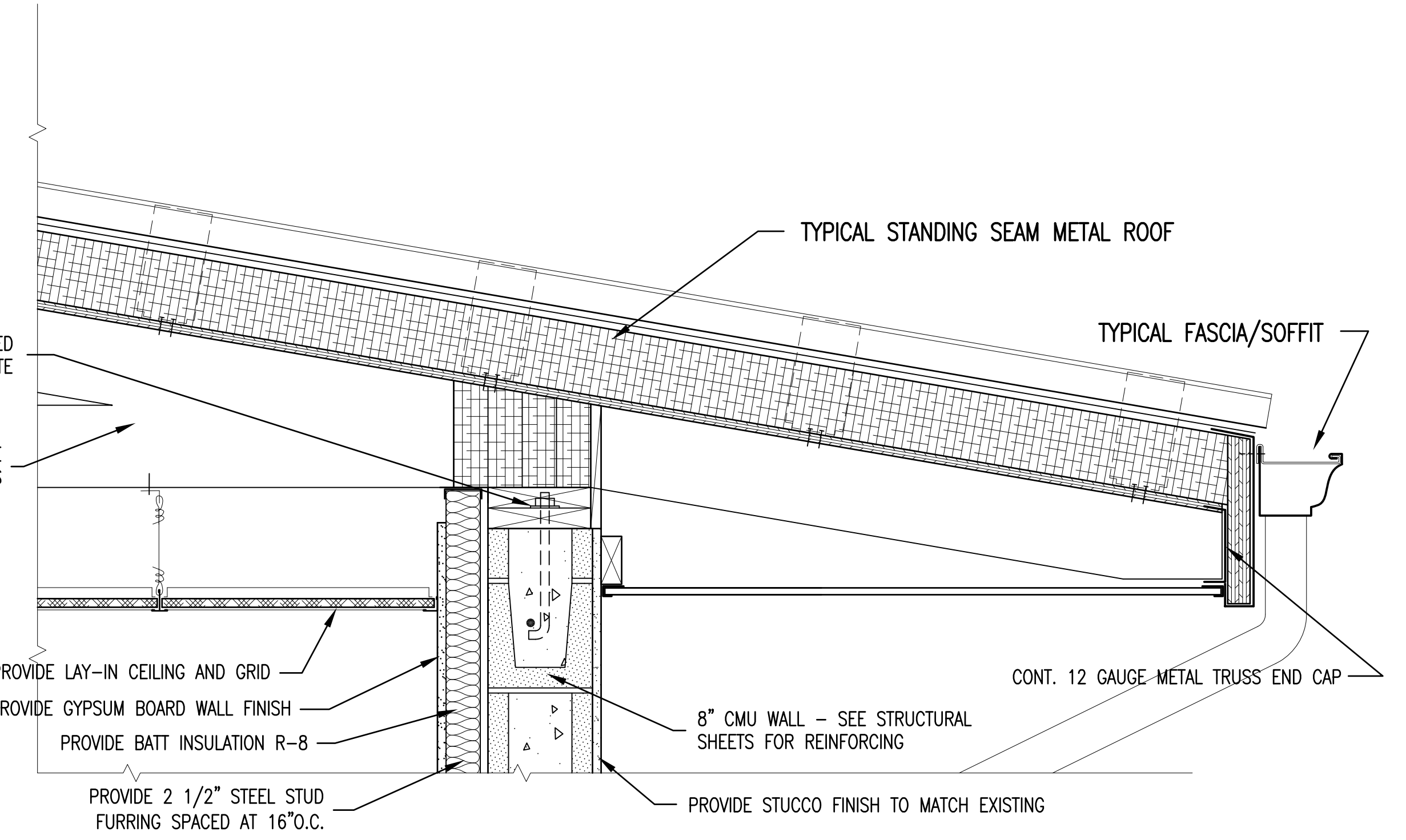


SEE DETAIL 4/A11/A11 FRO GUTTER, ROOF AND WALL PANELS CONFIGURATION

TYPICAL FASCIA/SOFFIT

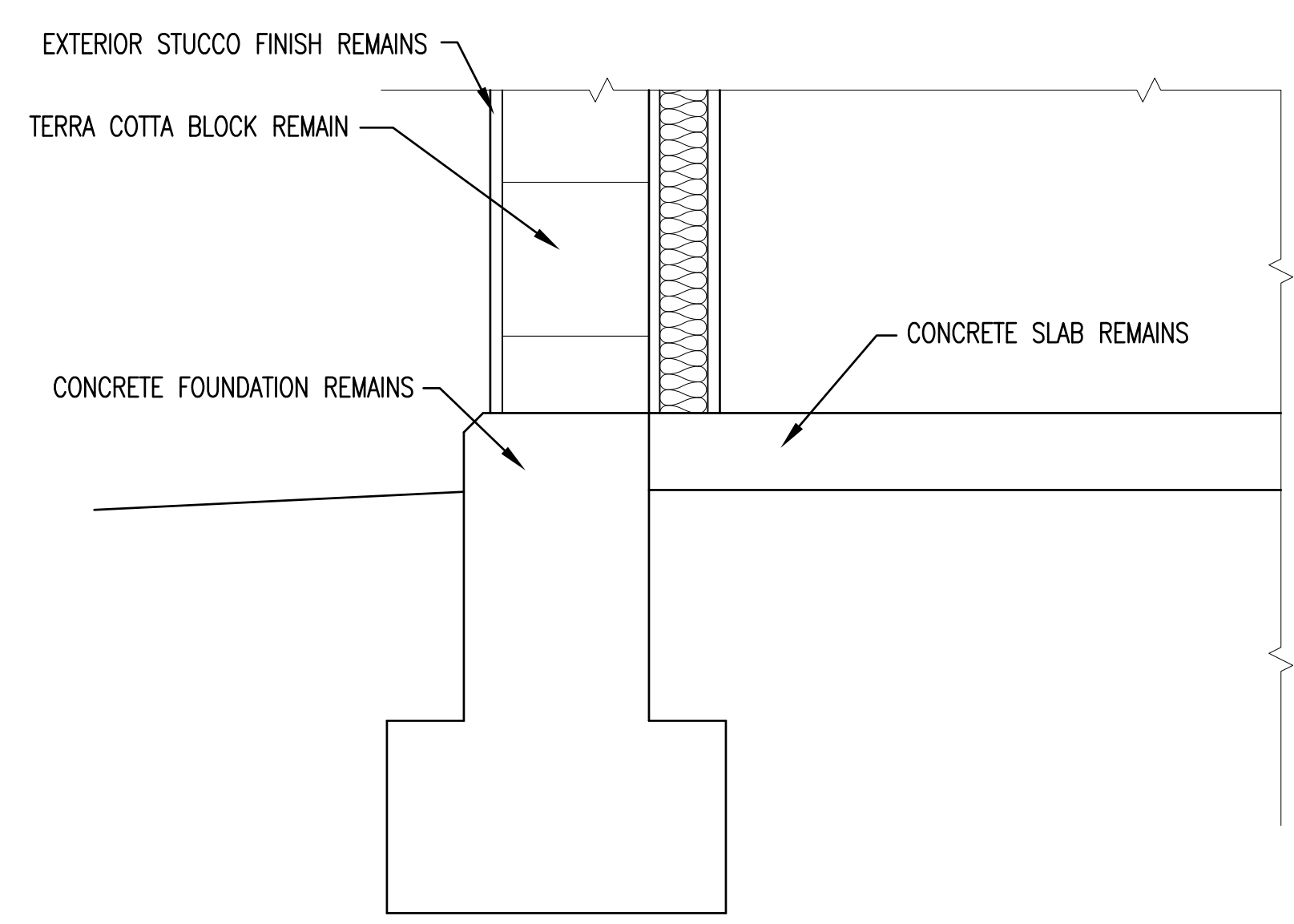


DOUBLE NOM. 2X TREATED WOOD TOP PLATE
LIGHT GAUGE METAL TRUSSES - SEE STRUCTURAL DRAWINGS

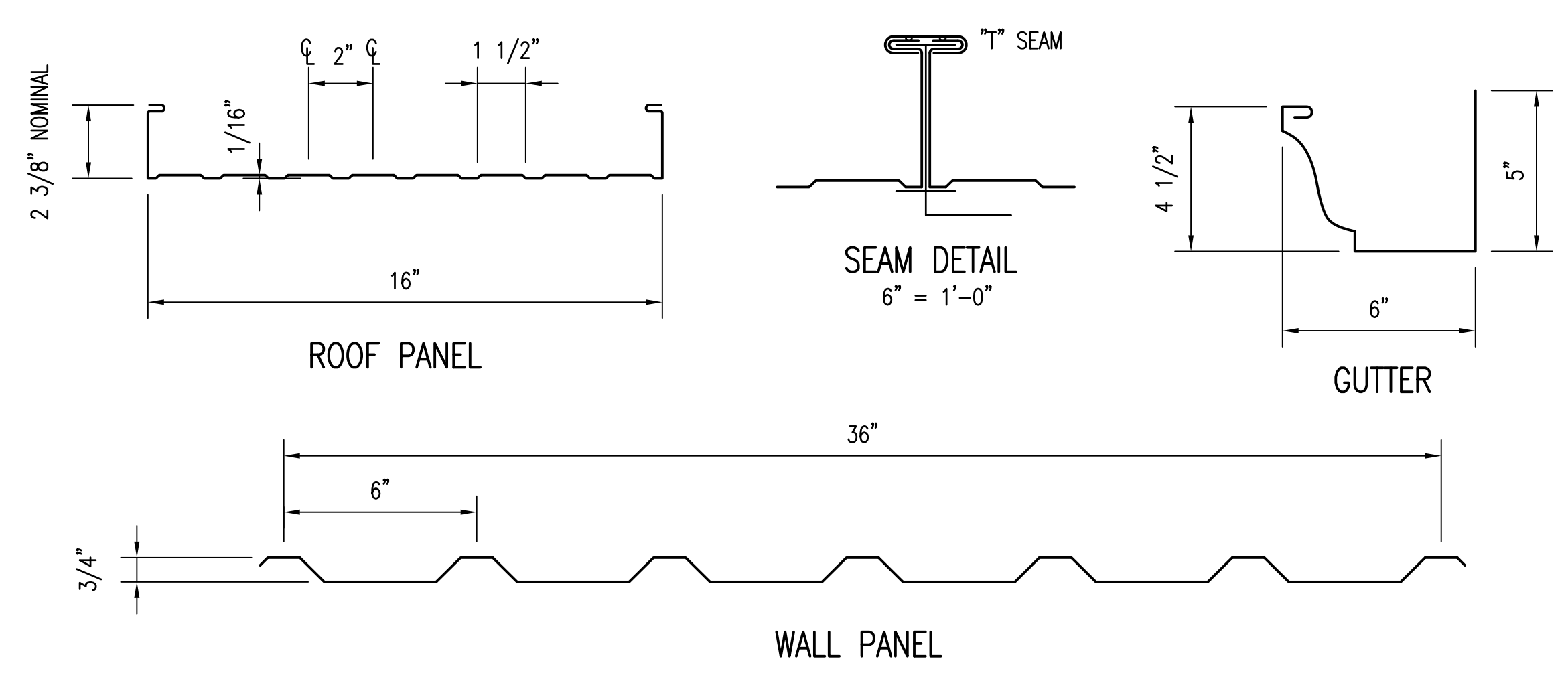


RENOVATED WALL SECTION 2
1 1/2" = 1'-0" A6/A11

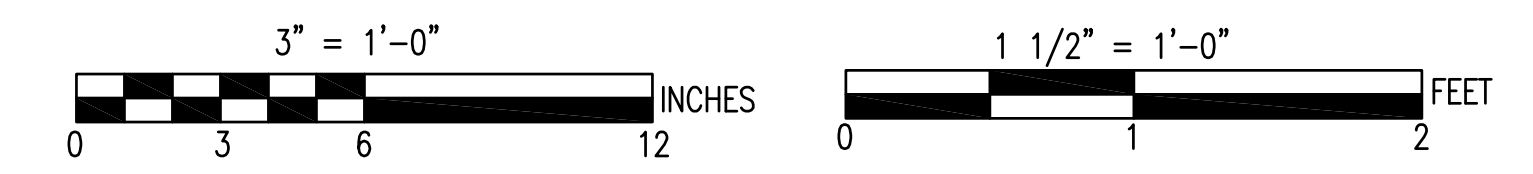
ADDITION WALL SECTION 3
SECTION THROUGH BUILDING ADDITION
1 1/2" = 1'-0" A6/A11



EXISTING WALL SECTION 1
1 1/2" = 1'-0" A6/A11



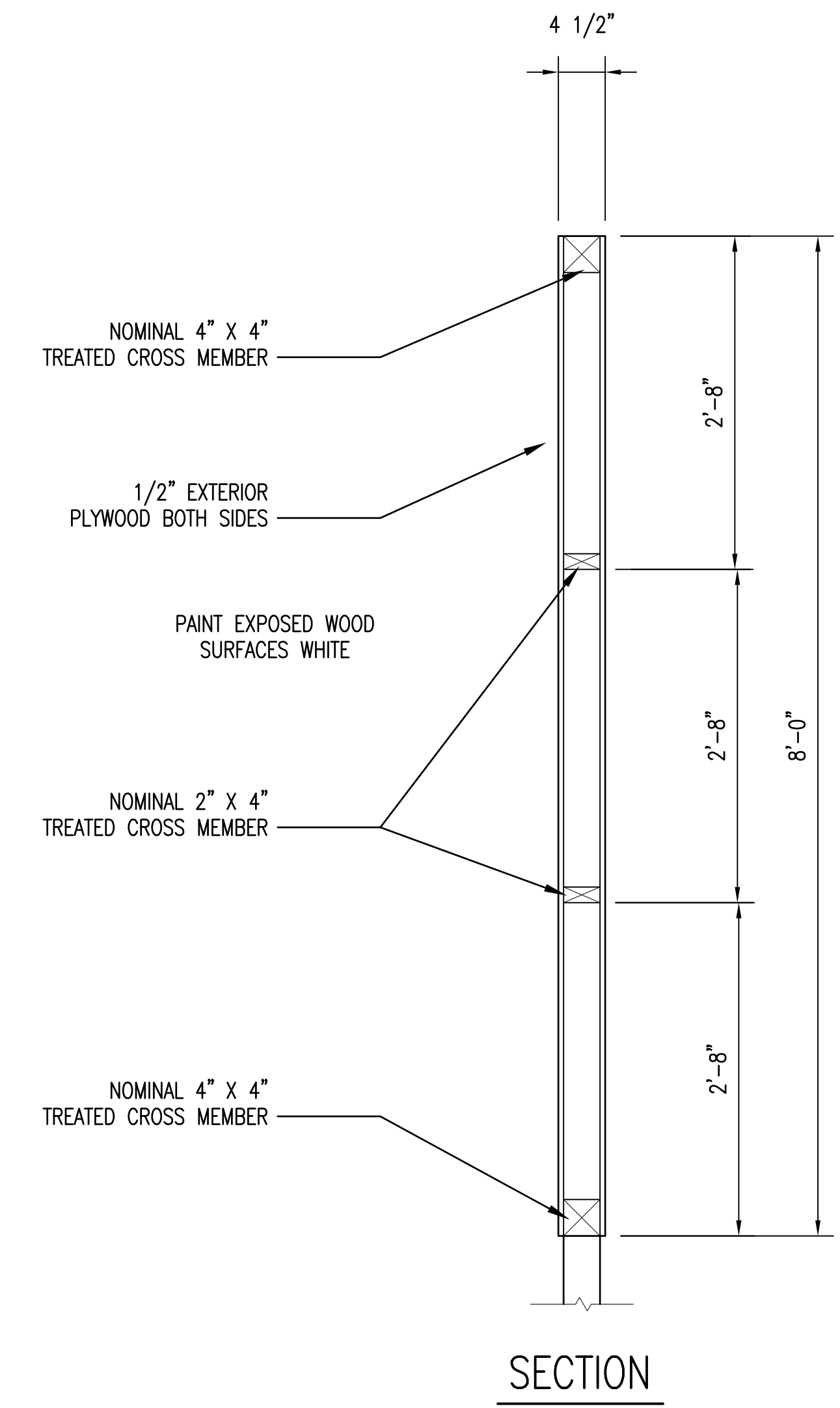
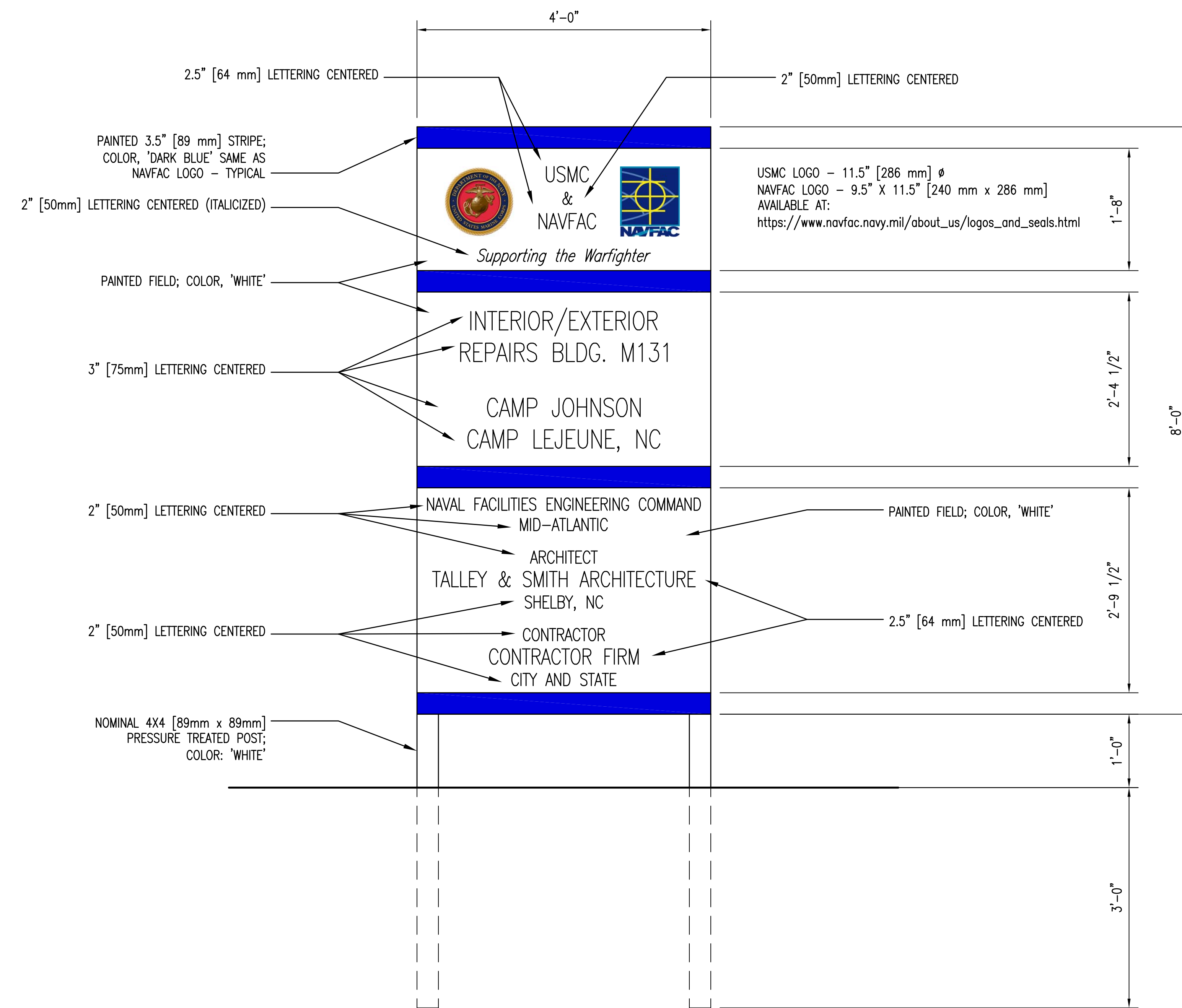
STANDING SEAM METAL ROOF SYSTEM ROOF COMPONENT CONFIGURATIONS 4
3" = 1'-0" A11/A11



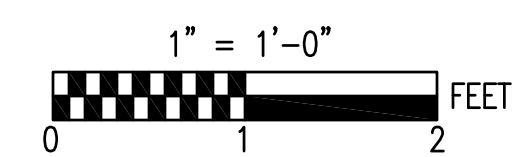
SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

	SHEET TITLE: DETAIL SECTIONS		A-11
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150 SHELBY, N.C.		
DES. Robert L. Smith III DR. Steven C. Fender CHK. Robert L. Smith III SUBMITTED BY: DESIGN DIR. APPROVED:	INTERIOR/EXTERIOR REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA	DATE: 06/24/2019 SIZE: E1 CODE IDENT. NO.: 80091 SATISFACTORY TO:	NAVFAC DRAWING NO.: 60024517 CONST. CONTR. NO.: N40085-19-B-0025 SCALE: NOTED SPEC: 05-19-0025 SHEET 18 OF 59

REVISIONS		
SYL	DATE	APPROVED



PROJECT IDENTIFICATION SIGN 1
1" = 1'-0" A13 A13



	SHEET TITLE: PROJECT IDENTIFICATION SIGN		A-13	
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150		DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
DES. Robert L. Smith III DR. Steven C. Fender CHK. Robert L. Smith III		INTERIOR/EXTERIOR REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA		
SUBMITTED BY: DESIGN DIR. APPROVED:		DATE	SIZE	CODE IDENT. NO.
SATISFACTORY TO:		DATE	F	80091
06/24/2019		SCALE: NOTED	SPEC: 05-19-0025	NAVFAC DRAWING NO. 60024519 CONST. CONTR. NO. N40085-19-B-0025
				SHEET 20 OF 59

REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED

GENERAL NOTES

GENERAL NOTES:
 COMPLETE SHOP DRAWINGS FOR CONSTRUCTION OF ALL SPECIALTY ITEMS INCLUDING, BUT NOT LIMITED TO:
 PRECAST CONCRETE, HOLLOW CORE CONCRETE SLABS, CURTAIN WALL GLAZING SYSTEMS, LIGHT GAUGE STEEL, ROOF AND WALL FRAMING, HEAVY TIMBER TRUSSES, GEOPHORS (FOUNDATION IMPROVEMENTS), GUARDRAILS AND STAIRS, SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NORTH CAROLINA AND SHALL BE MADE AVAILABLE AT THE JOB SITE DURING TIMES OF INSPECTION.

FOUNDATION NOTES:
 AN ASSUMED ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF WAS USED FOR THE DESIGN OF THE FOUNDATIONS. IF EXISTING CONDITIONS OR TESTS INDICATE THAT THE SOIL IS SOFT OR OTHERWISE QUESTIONABLE, CONTACT THE ENGINEER BEFORE PLACING CONCRETE.
 THE SOILS ENGINEER OR HIS REPRESENTATIVE SHALL INSPECT ALL SUBGRADE WORK PRIOR TO THE PLACEMENT OF ANY REINFORCING STEEL OR CONCRETE AND SHALL PERFORM TESTS TO VERIFY THAT SUCH WORK IS IN CONFORMANCE WITH THE PROCEDURES NOTED IN THE CONTRACT DOCUMENTS.

CONCRETE NOTES:
 CONCRETE PLACEMENT AND QUALITY: PER RECOMMENDATIONS IN ACI SP-15.
 DEBRIS: REMOVE ALL DEBRIS FROM FORMS BEFORE PLACING CONCRETE.
 SEGREGATION OF AGGREGATES: DO NOT DROP CONCRETE THROUGH REINFORCING STEEL SO AS TO CAUSE SEGREGATION OF AGGREGATES.
 INSERTS: SECURELY POSITION ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCING DOWELS, BOLTS, ANCHORS, PIPES AND SLEEVES IN THE FORMS BEFORE PLACING CONCRETE.
 CONSTRUCTION JOINTS: OBTAIN THE ARCHITECT'S APPROVAL OF JOINT LOCATIONS IN ALL SLABS, BEAMS, AND SHEAR WALLS. REMOVE LAFTAGE AND CLEAN SURFACE OF CONCRETE CONSTRUCTION JOINTS.

WELDED WIRE FABRIC CONFORMING TO ASTM A62 AND A185 GRADE 60 OR 70. PLACEMENT IN CONCRETE SHALL BE IN THE CENTER OF THE SLAB.
 REBAR GRADES: ALL REINFORCING STEEL TO BE NEW STOCK DEFORMED BARS CONFORMING TO ASTM A615 GRADE 60. ALL ACCESSORIES ARE TO BE INCLUDED. BARS ARE TO BE COLD BENT IN SHOP. BAR SUPPORTS ARE TO BE SPACED IN ACCORDANCE WITH ACI 315 AND CRSI. ALL BAR SPLICES ARE TO BE CONSIDERED CLASS "B" - CLASS "B" SPLICES ARE TO BE LAPPED A DISTANCE OF 1.3L_d. COMPRESSION REINFORCING SHALL BE LAPPED A MIN. OF 40 BAR DIAMETERS.
 REBAR COVER: ALL DIMENSIONS SHOWING THE LOCATION OF REINFORCING STEEL NOT NOTED AS "CLEAR" ARE TO CENTER OF STEEL MINIMUM REBAR COVER (CLEAR) FOR NONPRESTRESSED CONCRETE SHALL BE AS FOLLOWS:

LOCATION	MIN. COVER (CLEAR)	TOLERANCES
CAST AGAINST AND PERMANENTLY EXPOSED TO WEATHER:	3"	3/8"
#5 AND SMALLER BARS	1 1/2"	3/8"
#6 AND LARGER BARS	2"	3/4"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND:		
STRUCTURAL SLABS AND WALLS	3/4"	1/8"
REINFORCEMENT, TIES, STRUTS AND SPIRALS	1 1/2"	3/8"
SLABS ON GRADE	1 1/2"	1/4"

CONCRETE QUALITY:

CONCRETE USE:	28 DAY STRENGTH	SUMP	AIR	AGGREGATE SIZE	AGGREGATE TYPE
FOUNDATIONS	3000	5	-	1 1/2"	ASTM C33
EXTERIOR SLABS	4000	5*	4-6%	1"	ASTM C33
STRUCTURAL WALLS	4000	5*	-	1"	ASTM C33
YARD WALLS	4000	5*	-	1 1/2"	ASTM C33
SLAB ON GRADE	4000	5*	-	1"	ASTM C33

DO NOT ADD WATER TO CONCRETE MIX AT SITE UNLESS APPROVED BY ARCHITECT
 CONCRETE: NORMAL WEIGHT CONCRETE SHALL HAVE A MINIMUM UNIT WEIGHT OF 145 POUNDS PER CUBIC FOOT.
 AGGREGATE: COURSE AGGREGATE CONFORMING TO ASTM C33 AND LIGHT WEIGHT AGGREGATE CONFORMING TO ASTM C330
 AGGREGATE SIZE CONFORMING TO:
 3/4" ASTM C67
 1" ASTM C67
 1 1/2" ASTM C67
 CEMENT: TYPE I
 CONCRETE AGE: NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY ARCHITECT.

MASONRY NOTES:
 CODES: MASONRY DESIGN AND CONSTRUCTION IS BASED ON AND SHALL CONFORM TO THE PROVISIONS OF ACI 530-08/ASCE 5-08/TMS 402/08 INCLUDING SEISMIC REQUIREMENTS OF APPENDIX A.
 MASONRY: CONCRETE UNITS CONFORMING TO:
 ASTM C90 FOR HOLLOW LOADBEARING UNITS
 ASTM C145 FOR SOLID LOADBEARING UNITS
 ASTM C57 FOR CONCRETE BRICK
 MINIMUM f_m = 1350 PSI
 MORTAR AND GROUT: USE MORTAR FOR MASONRY CONFORMING TO ASTM C270 TYPE S. GROUT SHALL CONFORM TO ASTM C476. MIN. F_g = 3000 PSI GROUT SHALL CONSIST OF 1 PART PORTLAND CEMENT 2 PARTS SAND, 2 PARTS COARSE AGGREGATE (MAX SIZE 3/8") AND WATER AS REQUIRED TO BRING TO DESIRED CONSISTENCY.
 REINFORCEMENT: COLD DRAWN STEEL WIRE CONFORMING TO ASTM A-82; MASONRY WALLS MADE OF CMU TO BE REINFORCED USING 3/8" TRUSS TYPE REINFORCEMENT (GALVANIZED AFTER FABRICATION) AT 16" OC REBAR SHALL CONFORM TO ASTM A-615 GRADE 60
 ALL FILLED CELL MASONRY TO BE BUILT TO PRESERVE THE UNOBSTRUCTED VERTICAL CONTINUITY OF THE CELLS TO BE FILLED. LAY UNITS WITH FULL FACE SHELL MORTAR BEDS AND CROSS WEBS ADJACENT TO VERTICAL CORES TO BE FILLED.
 REINFORCING BARS SHOWN IN MASONRY WALLS SHALL BE LAPPED AS FOLLOWS, ALL LAP SPLICES SHALL BE ACCORDING TO NCSCB SECTION 2107.2.3
 #3 BARS-LAP 18" MIN
 #4 BARS-LAP 24" MIN
 #5 BARS-LAP 36" MIN
 #6 BARS-LAP 56" MIN
 #7 BARS-LAP 76" MIN
 #8 BARS-LAP 102" MIN
 *LAP LENGTHS ARE BASED ON BAR STRESSES LIMITED TO 80%

APPENDIX B STRUCTURAL DESIGN

STRUCTURAL DESIGN IS BASED ON THE 2018 NORTH CAROLINA BUILDING CODE

DESIGN LOADS: OCCUPANCY CATEGORY II

IMPORTANCE FACTORS	WIND	(w) 1.00
	SNOW	(s) 1.00
	SEISMIC	(e) 1.00

LIVE LOADS: ROOF 20 PSF
 MEZZANINE N/A PSF
 FLOOR 100 PSF

SNOW LOAD: 10 PSF

WIND LOAD: BASIC WIND SPEED 145 mph (ASCE 7-10)
 EXPOSURE CATEGORY C
 WIND BASE SHEARS (FOR WIRFS) V_w = 100KIP'S V_u = 25KIP'S

SEISMIC DESIGN CATEGORY A
 COMPLIANCE WITH SECTION 1616.4 ONLY? NO YES
 SEISMIC DESIGN CATEGORY B C D

PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:
 OCCUPANCY CATEGORY II
 SPECTRAL RESPONSE ACCELERATION S_a = 15.3 %g S_v = 0.72 %g

ANALYSIS PROCEDURE: SIMPLIFIED EQUIVALENT LATERAL FORCE MODAL
 ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED? YES NO

LATERAL DESIGN CONTROL? EARTHQUAKE WIND

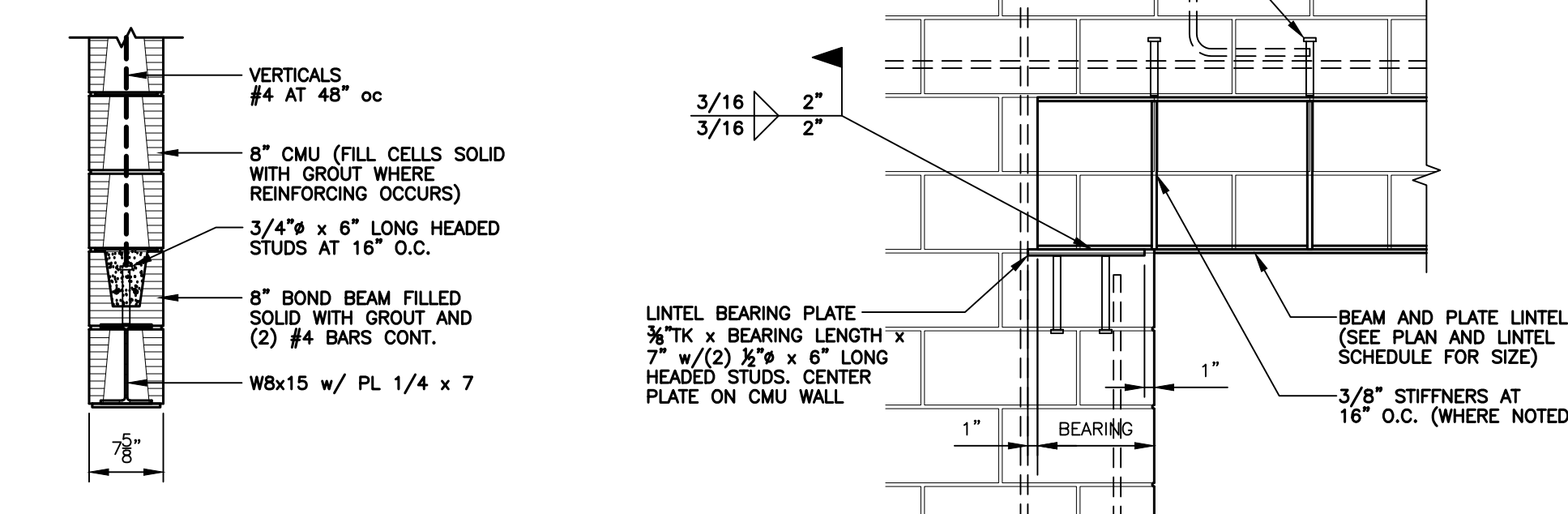
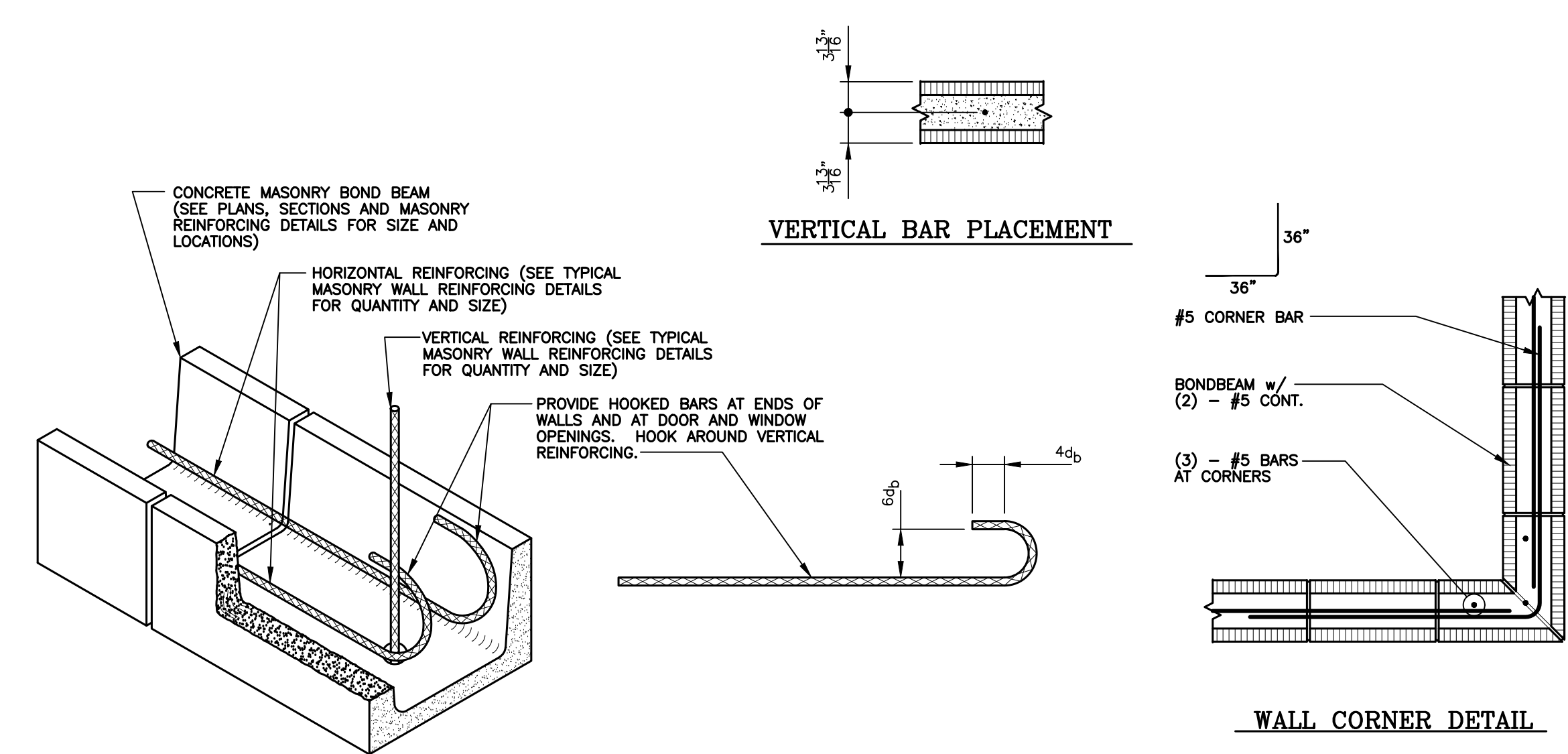
SOIL BEARING CAPACITIES:
 FIELD TEST (PROVIDE COPY OF TEST REPORT) _____ PSF
 PRESUMPTIVE BEARING CAPACITY 2000 PSF
 PILE SIZE, TYPE, AND CAPACITY _____

TRUSS DESIGN LOADS:

ROOF TRUSS TOP CHORD	ROOF TRUSS BOTTOM CHORD
LIVE: 20 PSF	LIVE: _____ PSF
DEAD: 18 PSF	DEAD: 10 PSF
TOTAL: 38 PSF	TOTAL: 10 PSF

GENERAL TIMBER NOTES:
 WOOD CONSTRUCTION SHALL BE IN ACCORDANCE WITH CHAPTER 23 OF THE NORTH CAROLINA STATE BUILDING CODE.
 ALL SHOP FABRICATED TRUSSES SHALL BE DESIGNED, FABRICATED, AND INSTALLED IN ACCORDANCE WITH THE NATIONAL DESIGN SPECIFICATION, PUBLISHED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION. DESIGN AND FABRICATION DRAWINGS SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN NORTH CAROLINA. THESE DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW BEFORE FABRICATION AND INSTALLATION OF THE MEMBERS.
 ALL TRUSSES SHALL BE LATERALLY BRACED AS RECOMMENDED BY THE MANUFACTURER.
 ALL NAILING AND STAPLING FOR CONNECTION OF WOOD MEMBERS, NOT NOTED ON DRAWINGS, SHALL BE IN ACCORDANCE WITH THE N.C. STATE BLDG. CODE TABLE 2304.9.1 (FASTENING SCHEDULE). FOR NAILING AND STAPLING CONDITIONS NOT COVERED IN THIS TABLE, THE MANUFACTURER'S RECOMMENDATIONS SHALL BE FOLLOWED.
 WOOD CONNECTORS SHALL BE BY SIMPSON STRONG-TIE COMPANY, INC. SUBSTITUTIONS WILL BE ACCEPTED WITH APPROVAL OF THE ENGINEER. ALL PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS UNLESS THE BUILDING CODE REQUIREMENTS ARE MORE STRINGENT.
 ALL ROOF TRUSSES SHALL BE ANCHORED AGAINST UPLIFT AT EACH BEARING POINT BY MEANS OF A HURRICANE ANCHOR. ANCHORS ARE TO BE DESIGNED AND FURNISHED BY THE WOOD TRUSS MANUFACTURER.

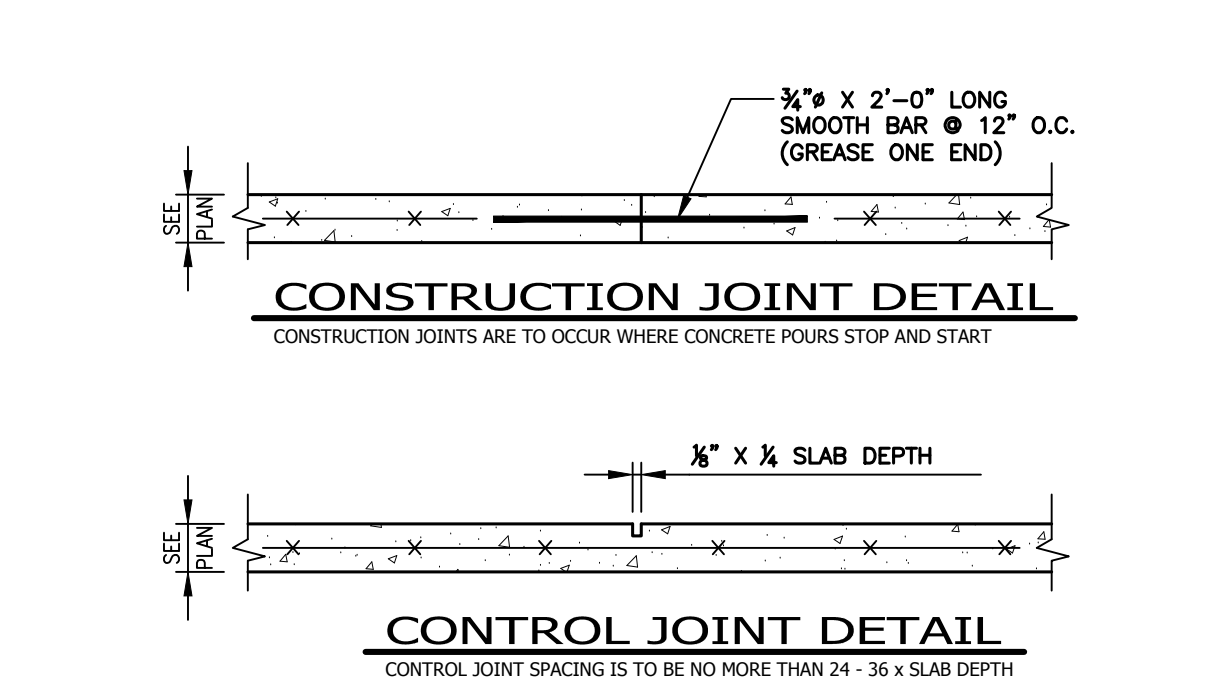
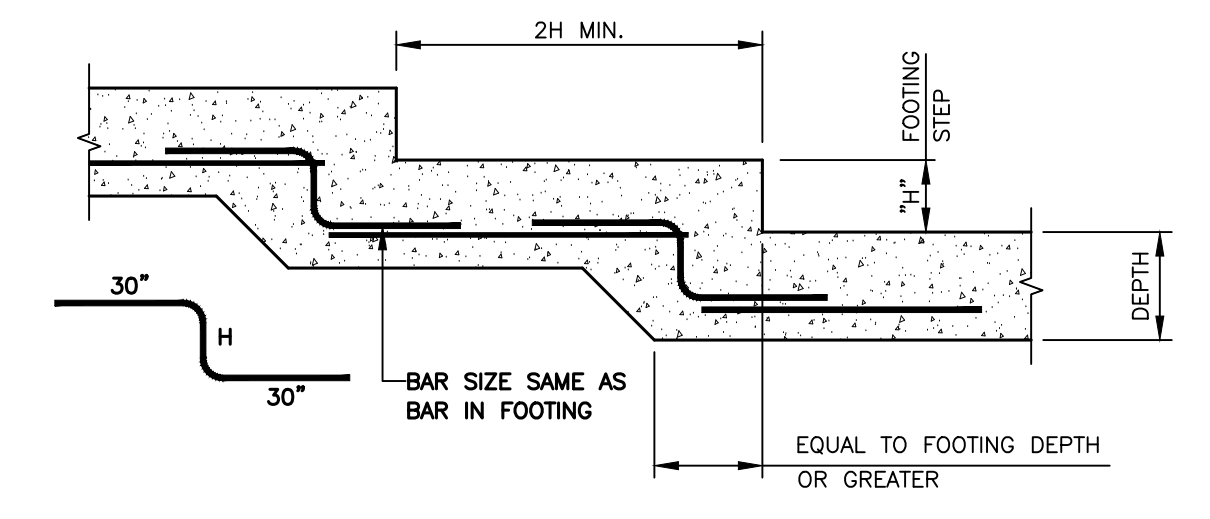
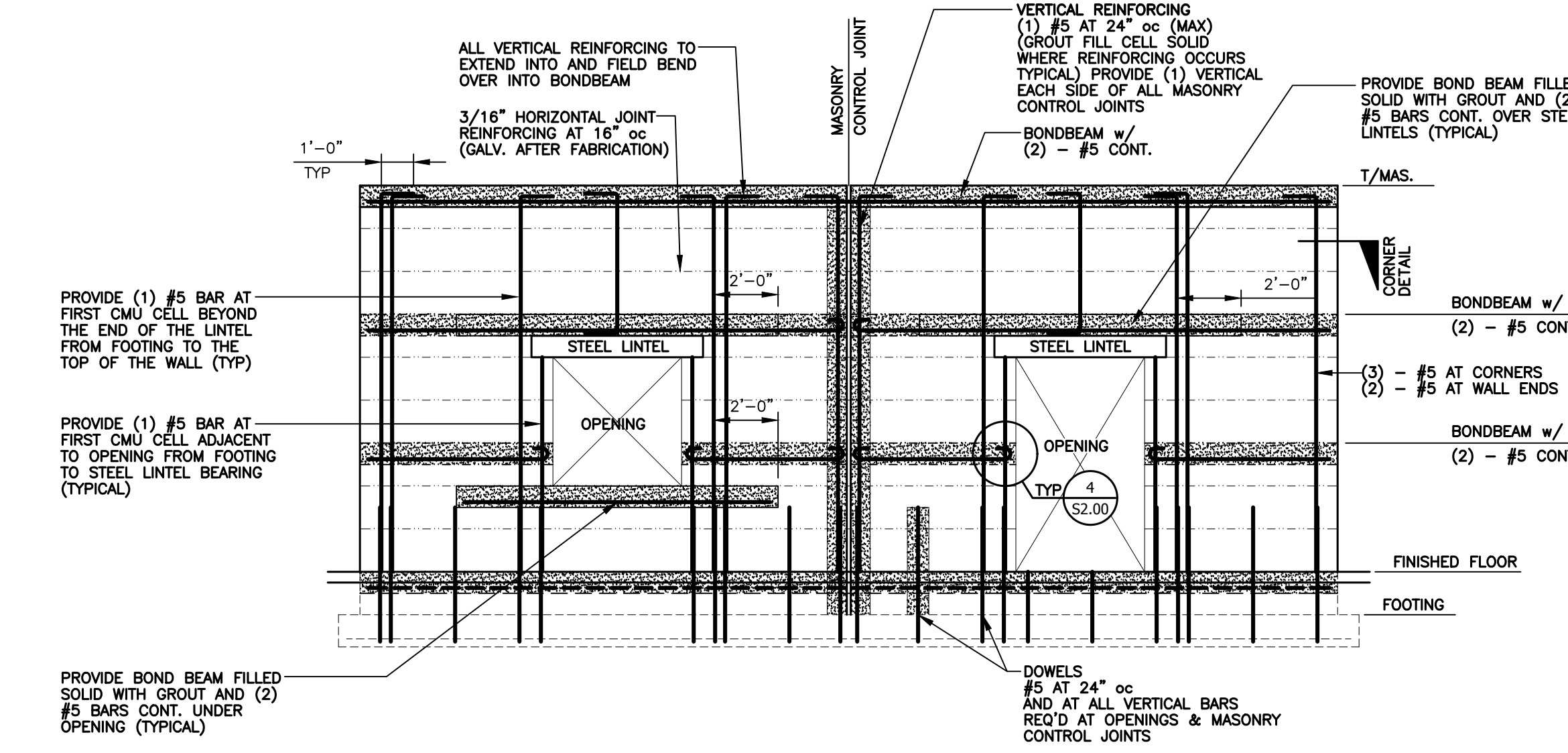
GENERAL LIGHT GAUGE METAL NOTES:
 ALL LOAD BEARING AND EXTERIOR WALL LIGHT GAUGE FRAMING, METAL HEADERS, JAMB STUDS, AND JACK STUDS ARE TO BE THE SIZE AND SPACING AS INDICATED ON THE DRAWINGS. ALL NON-LOAD BEARING INTERIOR WALLS ARE TO BE THE SIZE AS INDICATED ON THE ARCHITECTURAL DRAWINGS AND ARE TO BE DESIGNED TO MEET THE MINIMUM REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE.
 ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH AISI "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STRUCTURAL MEMBERS," LATEST EDITION.
 ALL FRAMING SHALL BE FORMED FROM CORROSION-RESISTANT STEEL, MEETING THE REQUIREMENTS OF ASTM A446 WITH A MINIMUM STRENGTH OF 40 KSI FOR SJ STUDS AND 33 KSI FOR CR RUNNERS.
 THE CONTRACTOR SHALL FURNISH DESIGN DRAWINGS FOR ALL PRE-FABRICATED ROOF TRUSSES. THE TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE LOADS AS DESCRIBED ON THE DRAWINGS AND THE COMPLETE TRUSS ROOF SYSTEM DESIGN DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA.
 FASTENING OF COMPONENTS SHALL BE MADE WITH SELF-DRILLING SCREWS OR WELDING. SCREWS TO BE OF SUFFICIENT SIZE TO INSURE THE STRENGTH OF THE CONNECTION. ALL WELDS TO BE TOUCHED UP WITH ZINC PAINT.
 STUDS ARE TO BEAR DIRECTLY ON THE CR RUNNERS SO THAT FASTENERS DO NOT SUPPORT THE FULL SHEAR STRENGTH OF THE CONNECTION.
 TEMPORARY BRACING SHALL BE PROVIDED UNTIL ERECTION IS COMPLETED.



LINTEL SCHEDULE FOR MARKED OPENINGS

MARK	LINTEL SIZE	MINIMUM BEARING	REMARKS
L1	WB x 15 w/ 1/4" BOTTOM R	8" EACH END	SEE STRUCTURAL DRAWINGS FOR LINTEL LOCATIONS SEE ARCHITECTURAL DRAWINGS FOR MASONRY OPENING WIDTHS

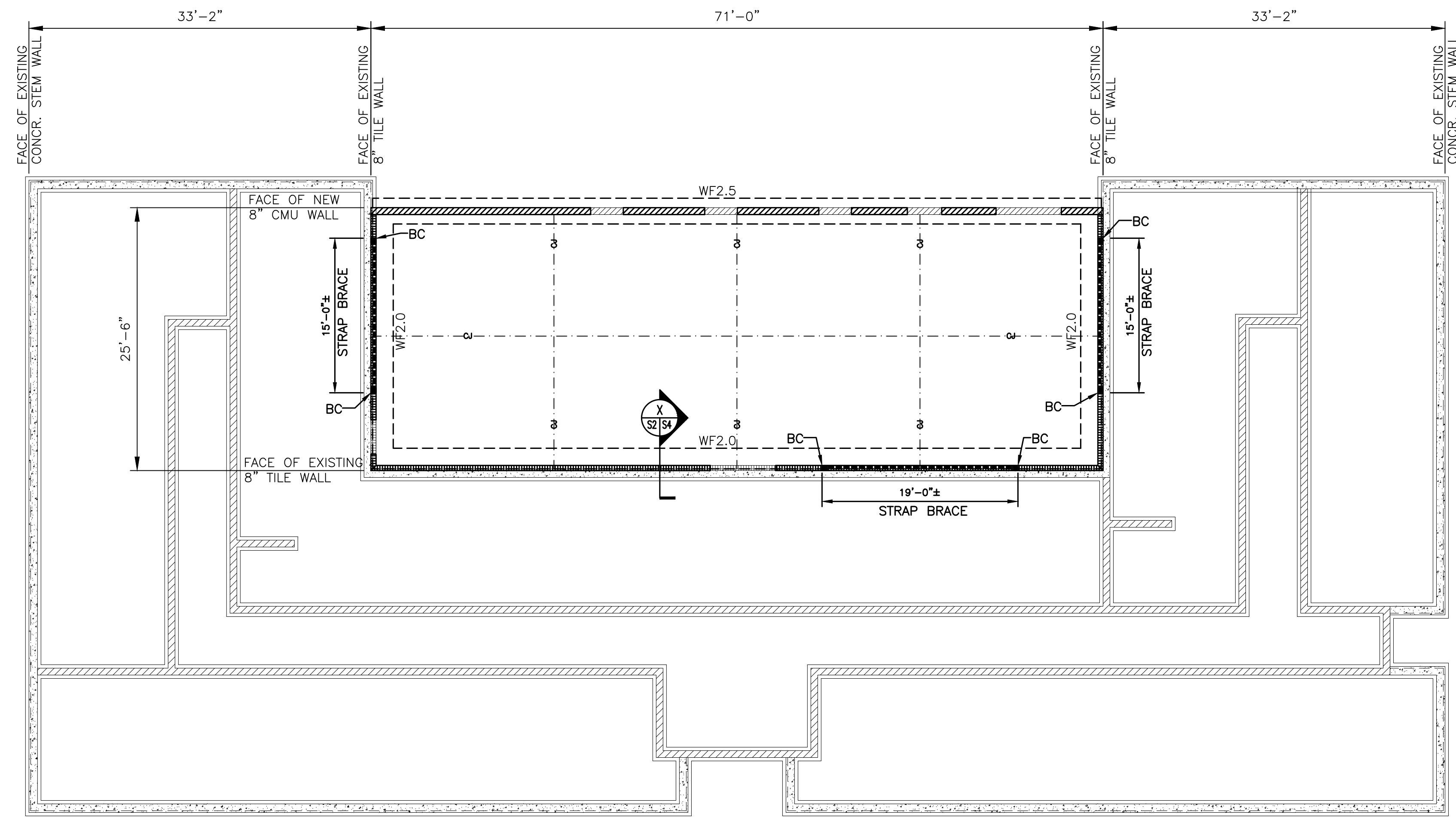
MASONRY LINTEL SCHEDULE & DETAILS



SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

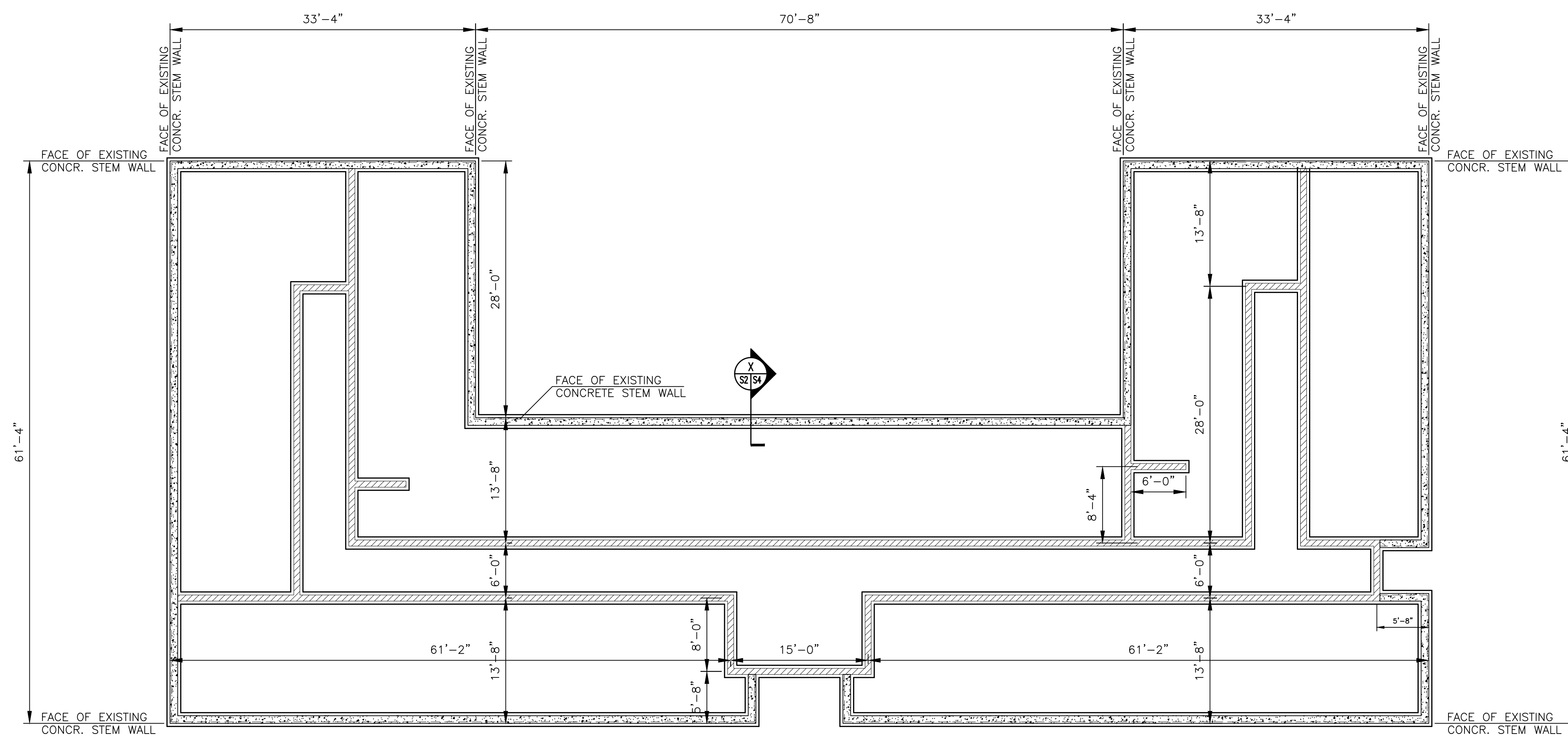
	SHEET TITLE:	GENERAL NOTES & DETAILS	SO
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150	DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
DES. Jason M. Reep, PE DR. Jason M. Reep, PE CHK. Jason M. Reep, PE SUBMITTED BY: DESIGN DR. T. H. BURTON, P.E.	BUILDING M131 INTERIOR & EXTERIOR REPAIRS CAMP LEJEUNE, NORTH CAROLINA		
TAYLOR & VIOLA STRUCTURAL ENGINEERS P.O. BOX 9918 WICKERY, NORTH CAROLINA 28090 WWW.TAYLORVIOLA.COM (888) 388-8331 FAX (888) 388-1801	APPROVED:	DATE:	SIZE: F
SATISFACTORY TO:	DATE:	CODE IDENT. NO. 80091	NAVFAC DRAWING NO. 60024520
		SCALE: NOTED	CONST. CONTR. NO. N40085-18-B-0013
		SHEET 21 OF 59	

REVISIONS		
SYM.	DATE	APPROVED



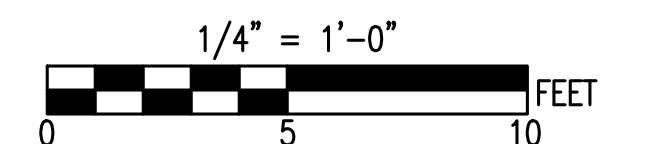
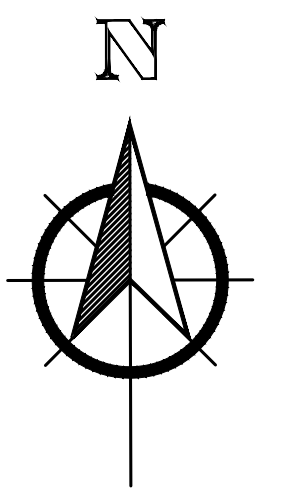
2 NEW ADDITION FOUNDATION PLAN

- SCALE: 1/8" = 1'-0"
- TOP OF FOOTING ELEVATIONS ARE NOTED THUS (-X'-X") BELOW FINISHED FLOOR ELEVATION (REFERENCE 0'-0")
 - SLAB ON GRADE TO BE 4" THICK CONCRETE WITH 6#6-W1.4W1.4 WWM ON PLASTIC VAPOR BARRIER.
 - WF-X - INDICATES CONTINUOUS FOOTING TYPE (SEE SECTION CUTS FOR DETAILS)
 - CI - INDICATES CONCRETE SLAB CONSTRUCTION (CONTROL JOINTS (SEE SHEET S0 FOR DETAILS))
 - FS - INDICATES FOOTING STEPS (SEE SHEET S0 FOR FOOTING STEP DETAIL)
 - SEE SHEET S3 FOR STRAP BRACING DETAILS AND SCHEDULE
 - "BC" INDICATES BRACE-COLUMN - SEE SHEET S3 FOR COLUMN SCHEDULE

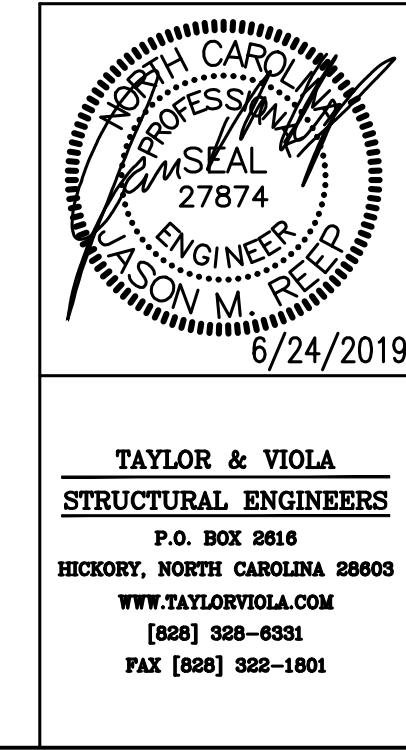


1 EXISTING FOUNDATION PLAN

- SCALE: 1/8" = 1'-0"
- ALL DIMENSIONS SHOWN IN THESE PLANS ARE BASED ON THE EXISTING BUILDING DRAWINGS AND ARE TO BE CONFIRMED IN THE FIELD. ANY DISCREPANCIES ARE TO BE COMMUNICATED TO THE ARCHITECT AND EOR AND TO ALL PARTIES PRIOR TO MATERIALS BEING ORDERED AND/OR FABRICATED.
 - EXISTING FOOTING ELEVATIONS ARE ALSO TO BE CONFIRMED WHERE NEW ADDITIONS TIE IN. NEW FOOTING ELEVATIONS AND STEPS ARE TO BE ADJUSTED AS NECESSARY.

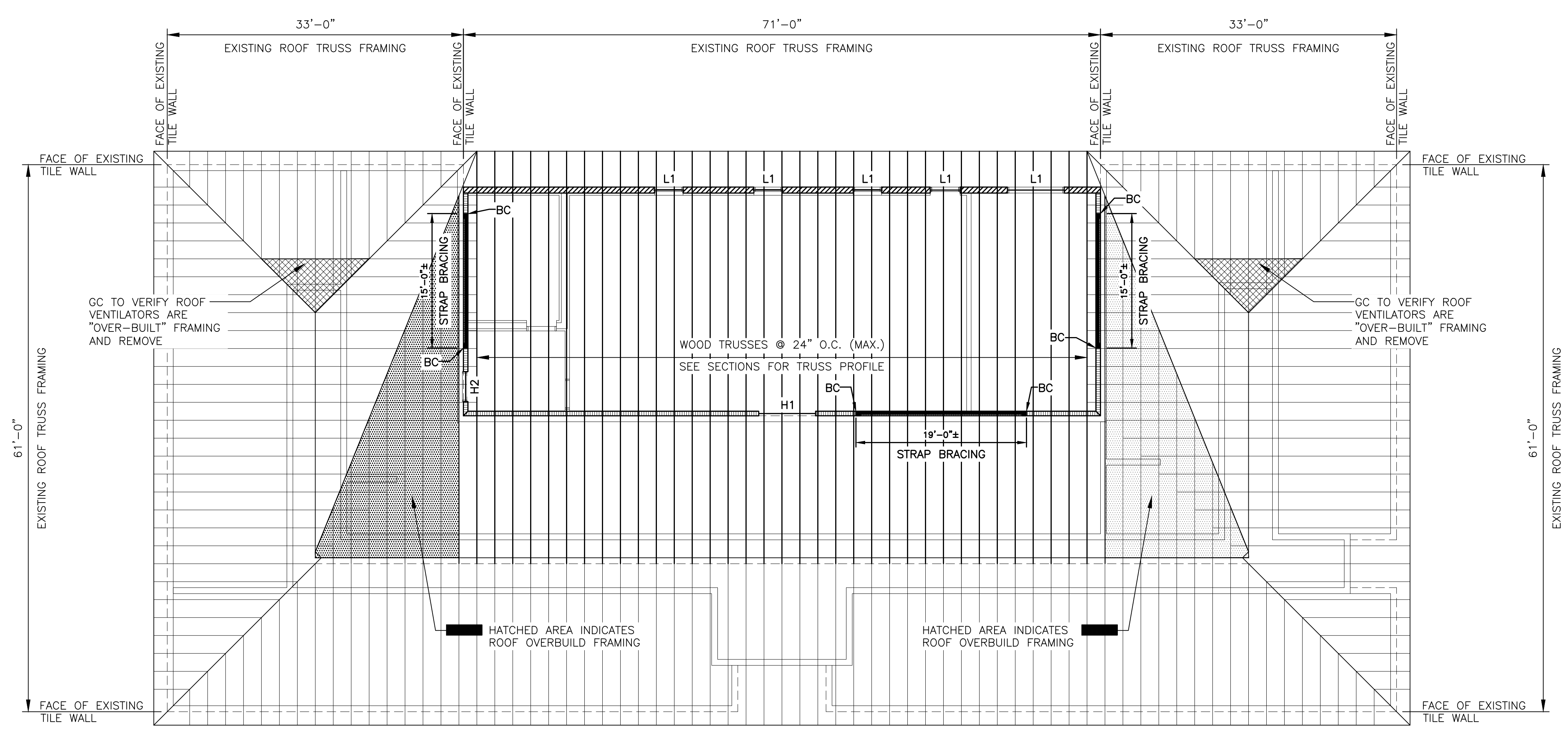


SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1



SHEET TITLE:		FOUNDATION PLANS		S1	
DESIGNED BY:		TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
CHECKED BY:		DR. Jason M. Reep, PE		BUILDING M131 INTERIOR & EXTERIOR REPAIRS CAMP LEJEUNE, NORTH CAROLINA	
SUBMITTED BY:		CHK. Jason M. Reep, PE		NAVFAC DRAWING NO. 60024521	
DESIGN DRAWN BY:		DESIGN DR. T. H. BURTON, P.E.		CONST. CONTR. NO. N40085-18-B-0013	
APPROVED:		DATE		SCALE: NOTED	
SATISFACTORY TO:		DATE		SPEC: 05-18-0013	
				SHEET 22 OF 59	

REVISIONS		
SYL.	DATE	APPROVED

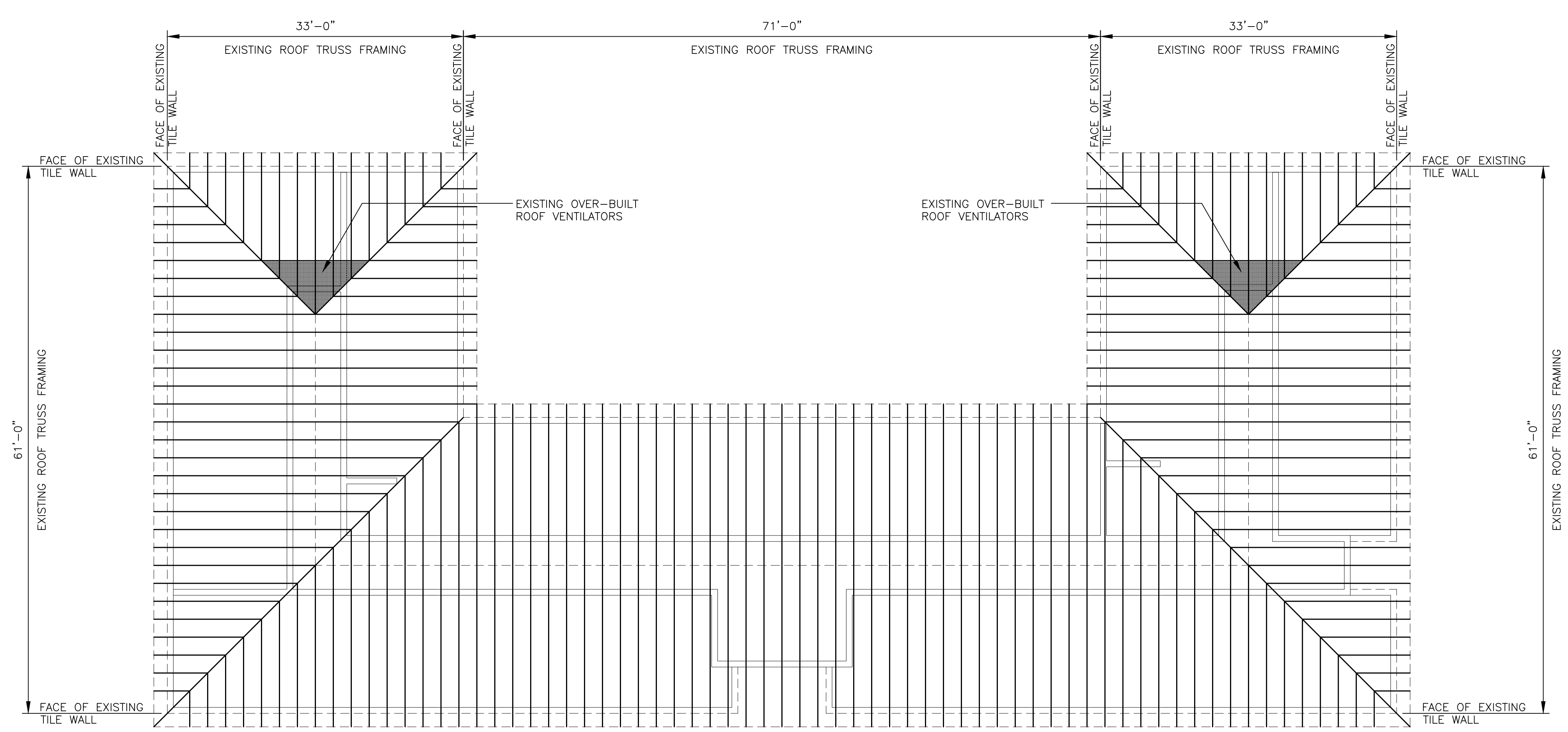


2
S1

NEW ADDITION ROOF FRAMING PLAN

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

- WOOD TRUSS BEARING IS TO MATCH THE EXISTING TRUSS BEARING ELEVATION (ASSUMED TO BE +X" ABOVE FINISHED UPPER FLOOR LEVEL)
- HX - INDICATES LIGHT GAGE METAL HEADER TYPE (SEE SX FOR HEADER, JACK AND JAMB STUD REQUIREMENTS)
- LX - INDICATES LINTEL TYPE AT MASONRY WALLS (SEE SX FOR LINTEL SCHEDULE AND DETAILS)
- USE DOUBLE STUDS (BACK TO BACK) AT ALL GIRDER TRUSS BEARING LOCATIONS
- "BC" INDICATES METAL STUD BRACE-COLUMNS - SEE SHEET 50 FOR DETAILS

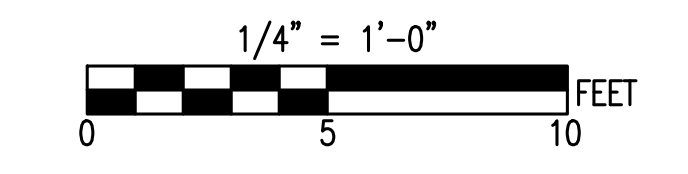
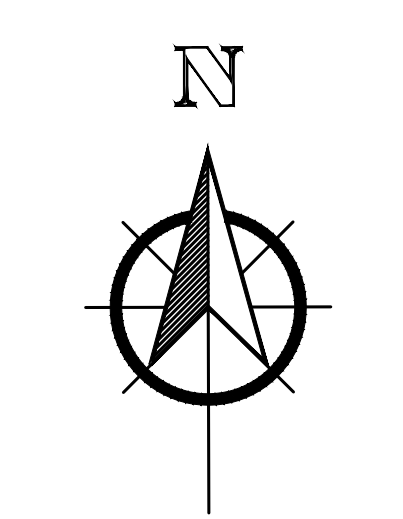


1
S1

EXISTING ROOF FRAMING PLAN

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

- ALL DIMENSIONS SHOWN IN THESE PLANS ARE BASED ON THE EXISTING BUILDING DRAWINGS AND ARE TO BE CONFIRMED IN THE FIELD. ANY DISCREPANCIES ARE TO COMMUNICATED TO THE ARCHITECT AND FOR AND TO ALL PARTIES PRIOR TO MATERIALS BEING ORDERED AND/OR FABRICATED.
- EXISTING TRUSS BEARING ELEVATIONS ARE ALSO TO BE CONFIRMED WHERE NEW ADDITIONS TIE IN. NEW FRAMING ELEVATIONS ARE TO BE ADJUSTED AS NECESSARY.

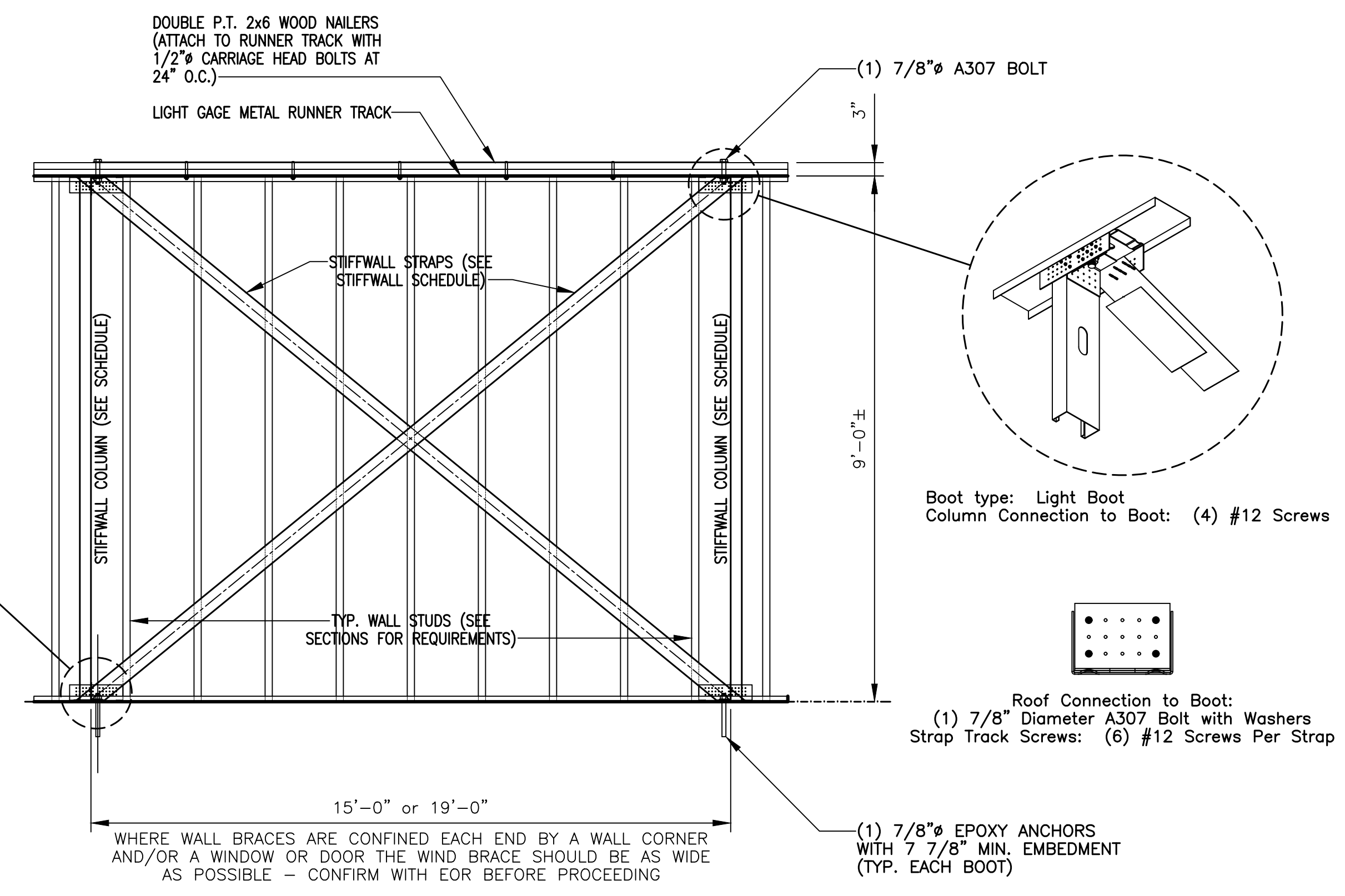
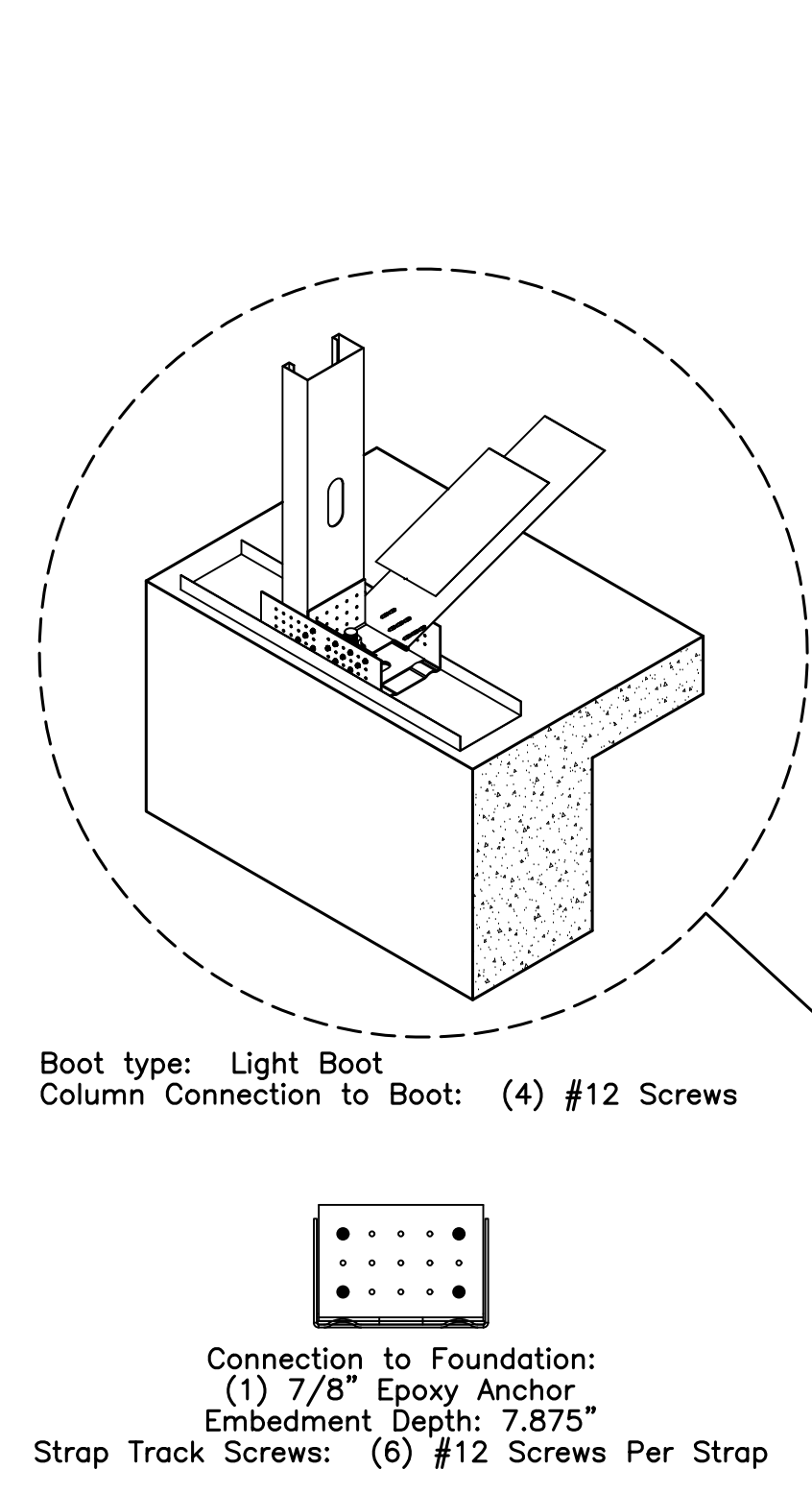
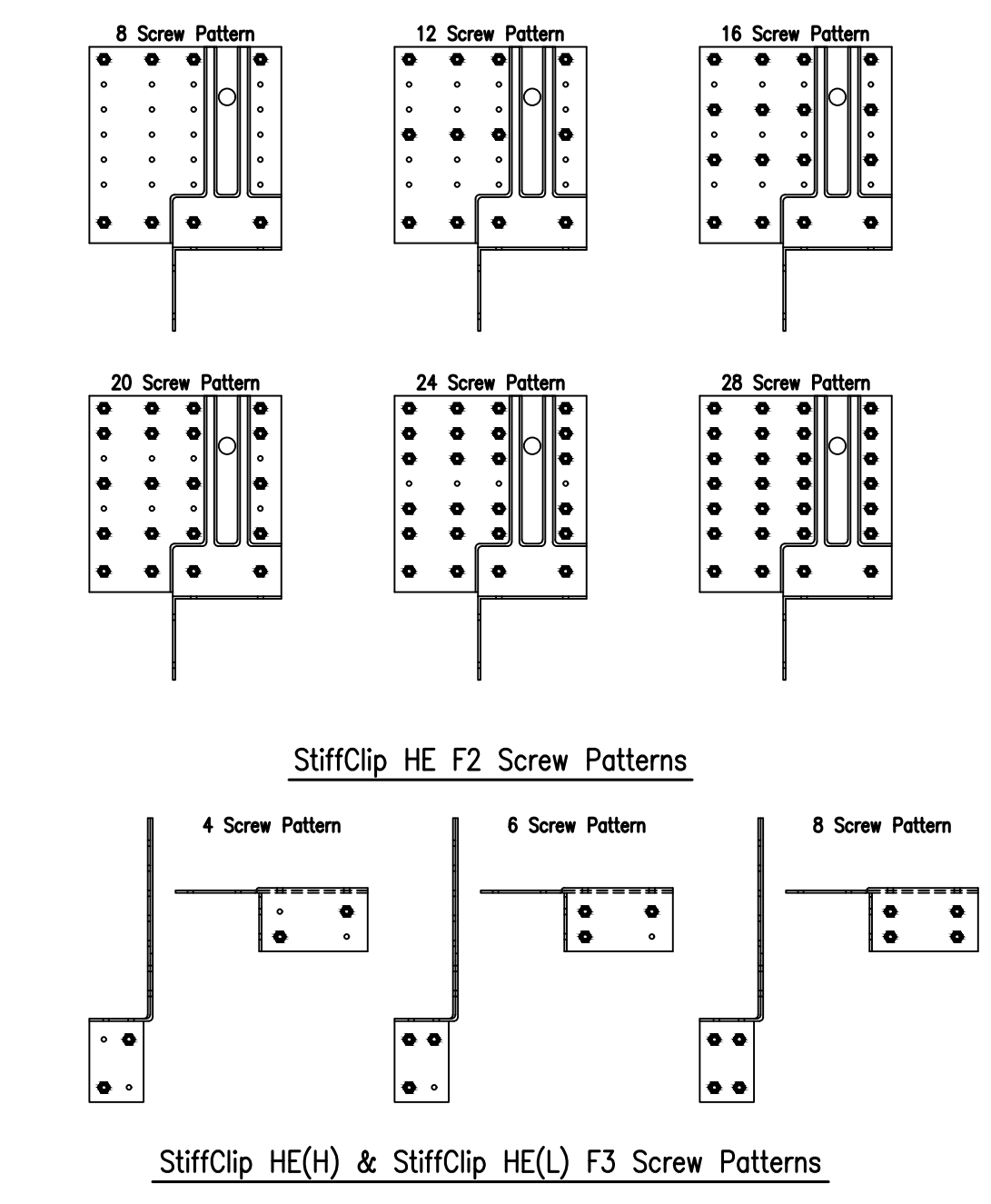
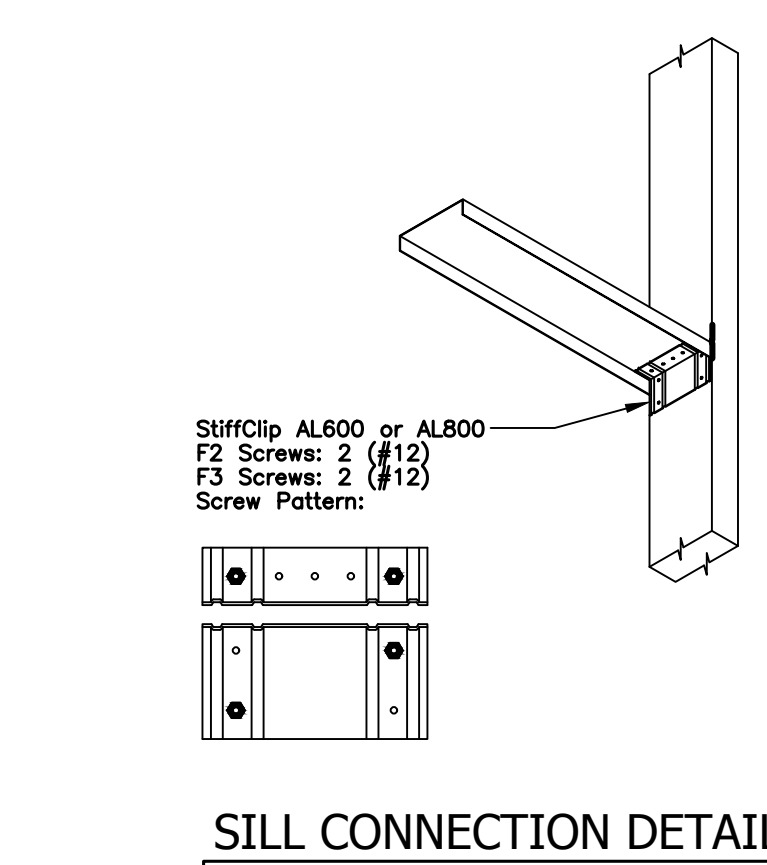
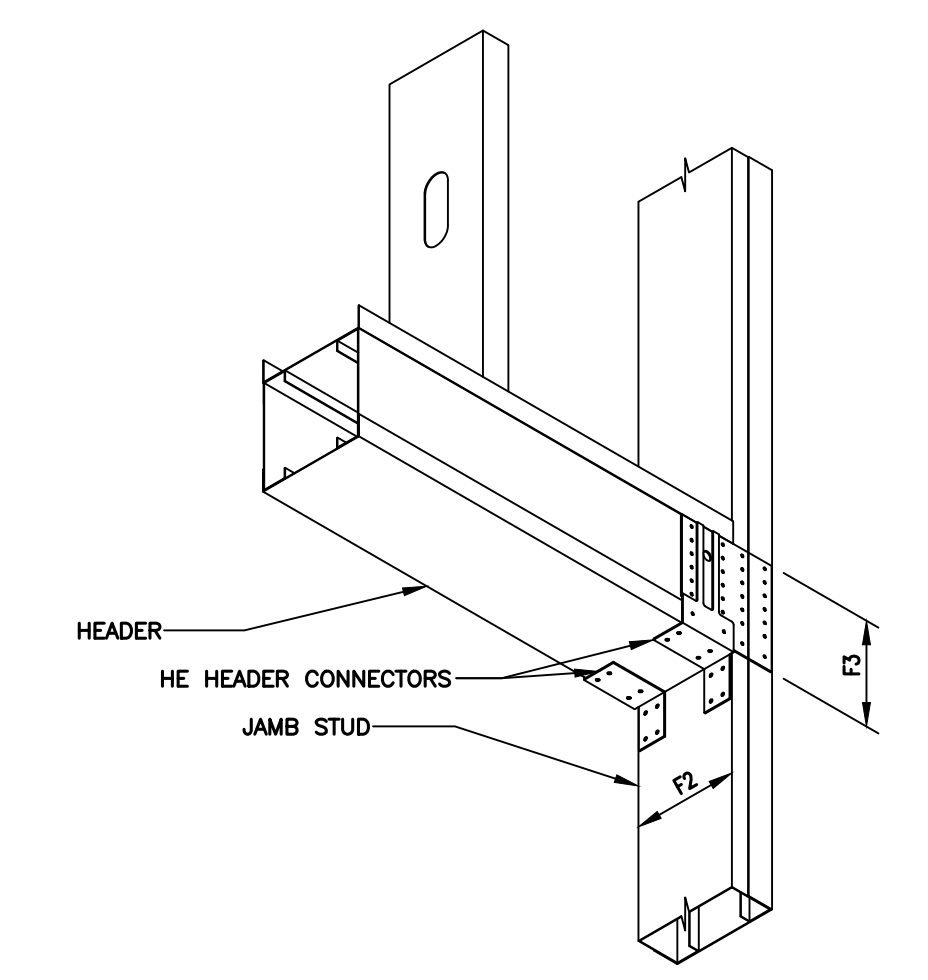
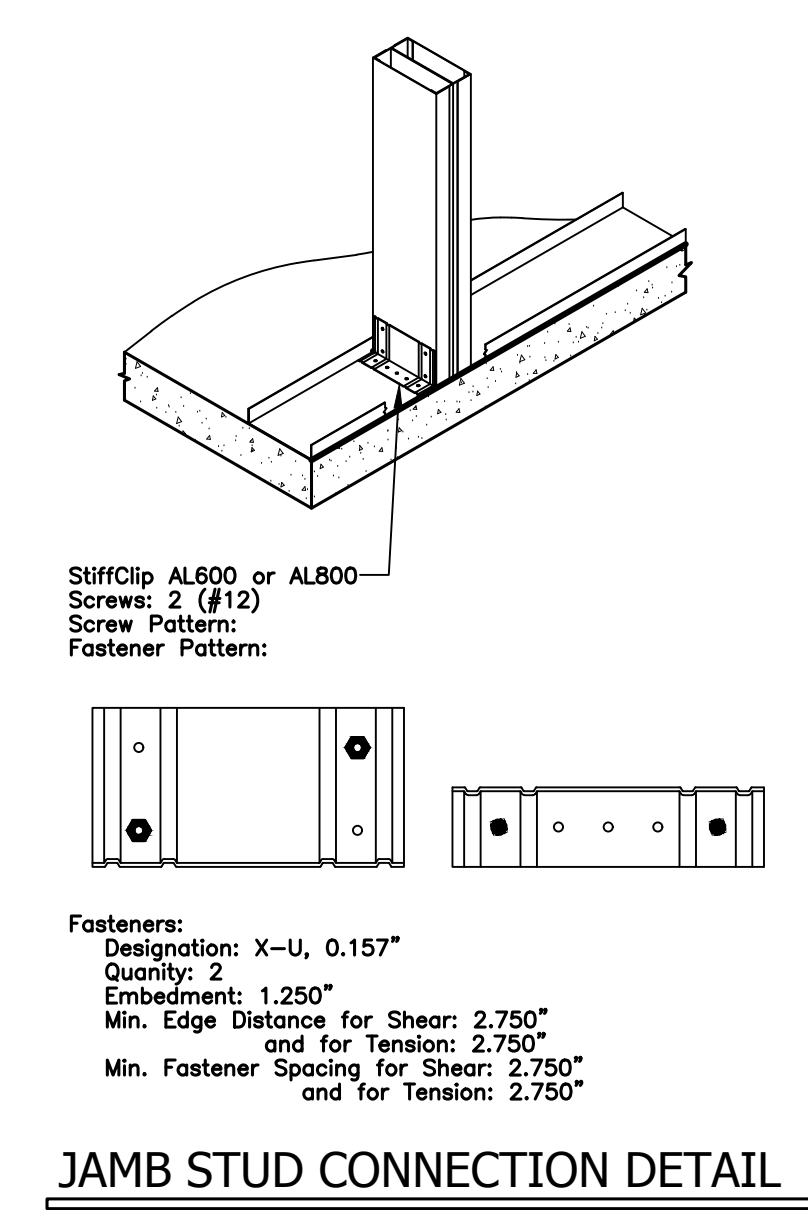
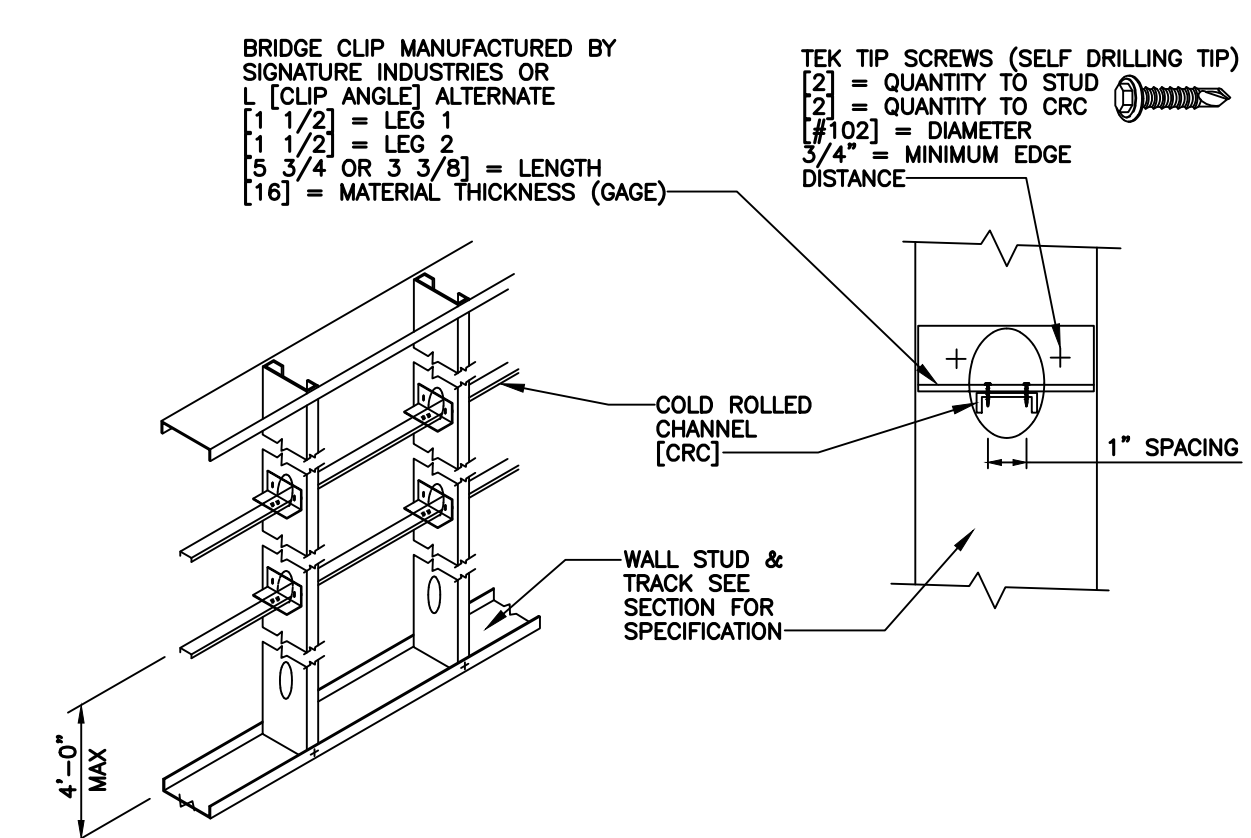
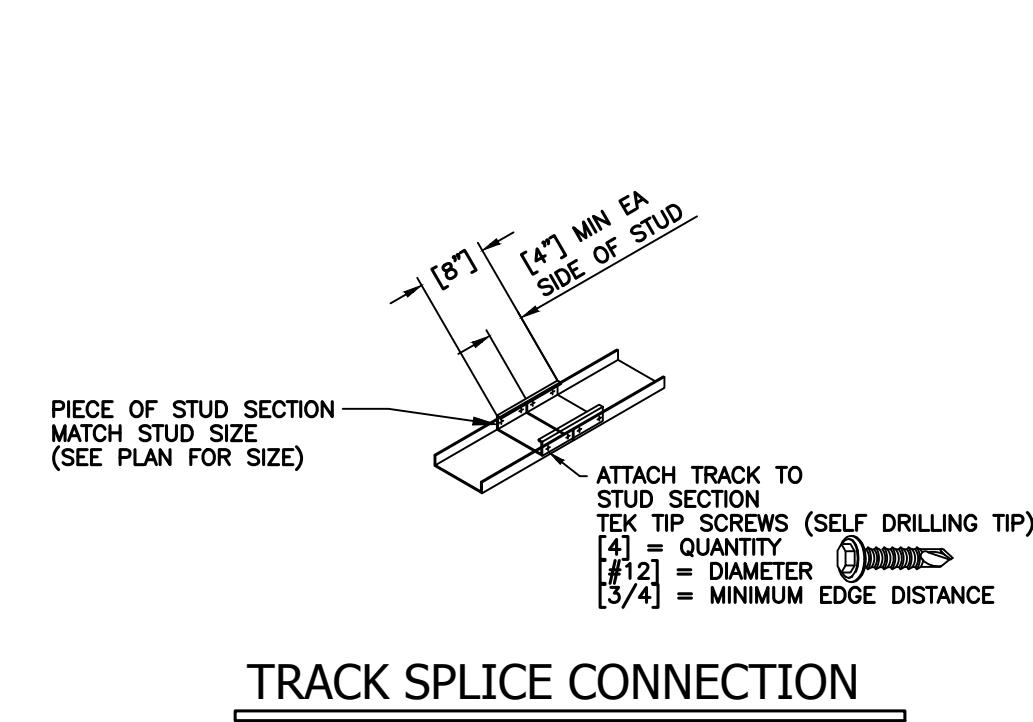


SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

	SHEET TITLE:		S2	
	ROOF FRAMING PLANS			
TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150		DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA		
DES. Jason M. Reep, PE DR. Jason M. Reep, PE CHK. Jason M. Reep, PE SUBMITTED BY: DESIGN DR. T. H. BURTON, P.E.		BUILDING M131 INTERIOR & EXTERIOR REPAIRS CAMP LEJEUNE, NORTH CAROLINA		
APPROVED:		DATE:	SIZE:	NAVFAC DRAWING NO.:
SATISFACTORY TO:		DATE:	F 80091	60024522
		SCALE: NOTED	SPEC: 05-18-0013	SHEET 23 OF 59

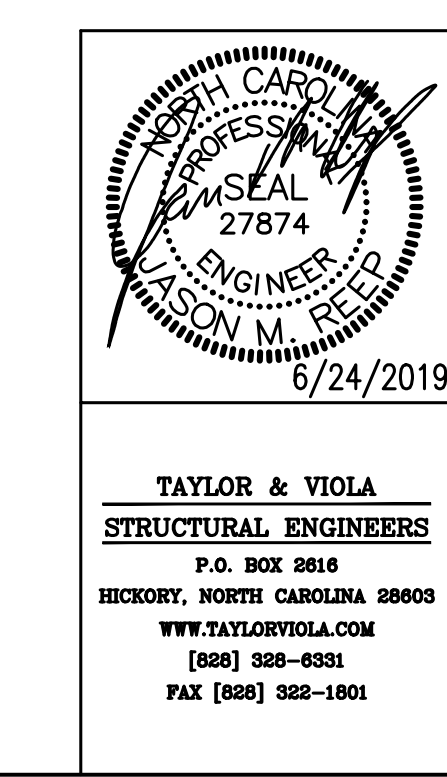
REVISIONS		
SYL.	DATE	APPROVED

WALL OPENING HEADER, SILL & JAMB SCHEDULE FOR 6" STUD WALLS - FIRST FLOOR LEVEL						
MARK	HEADER TYPE AND DETAIL	SILL TYPE AND DETAIL	JAMB STUD TYPE AND DETAIL	HEADER CONNECTOR	F2 SCREW PATTERN	F3 SCREW PATTERN
H1 (6'-4"±)	(2) 1000S162-68 (50 ksi) - STUDS VERTICAL & (2) 600T150-43 (33 ksi) RUNNER TRACK (4) #12 HH SCREWS AT 6" O.C.	--	(1) 600S250-43 (33 ksi) JAMB STUD & (1) 600T150-43 (33 ksi) RUNNER TRACK (4) #12 HH SCREWS AT 6" O.C.	HE-43	(4) #10 SCREWS	(28) #10 SCREWS
H2 (6'-4"±)	(2) 800S162-33 (33 ksi) - STUDS VERTICAL & (2) 800T150-33 (33 ksi) RUNNER TRACK (4) #12 HH SCREWS AT 6" O.C.	--	(1) 600I62-54 (50 ksi) JAMB STUD	AL600	(4) #12 SCREWS	(4) #12 SCREWS



Stiffwall Assembly Components		
Column	Boot	Bracing
600C/STW250-43mil, 50 ksi	Light Boot	4" x 54 mils Flat Strap, Fy = 50 ksi

TSN Column/Boot Assembly		Column Connection to Boot	TSN Flat Strap Bracing	
QTY	Part#	Part#	QTY	Part#
2	600C/STW250-43-1-LT	(4 x 4) #12 Screws	4	FS400-54, 50 ksi



SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

SHEET TITLE: LT. GAGE FRAMING DETAILS S3

TALLEY & SMITH ARCHITECTURE INC.
P.O. BOX 518 SHELBY, NC 28151-0518
409 EAST MARION ST. SHELBY, NC 28150

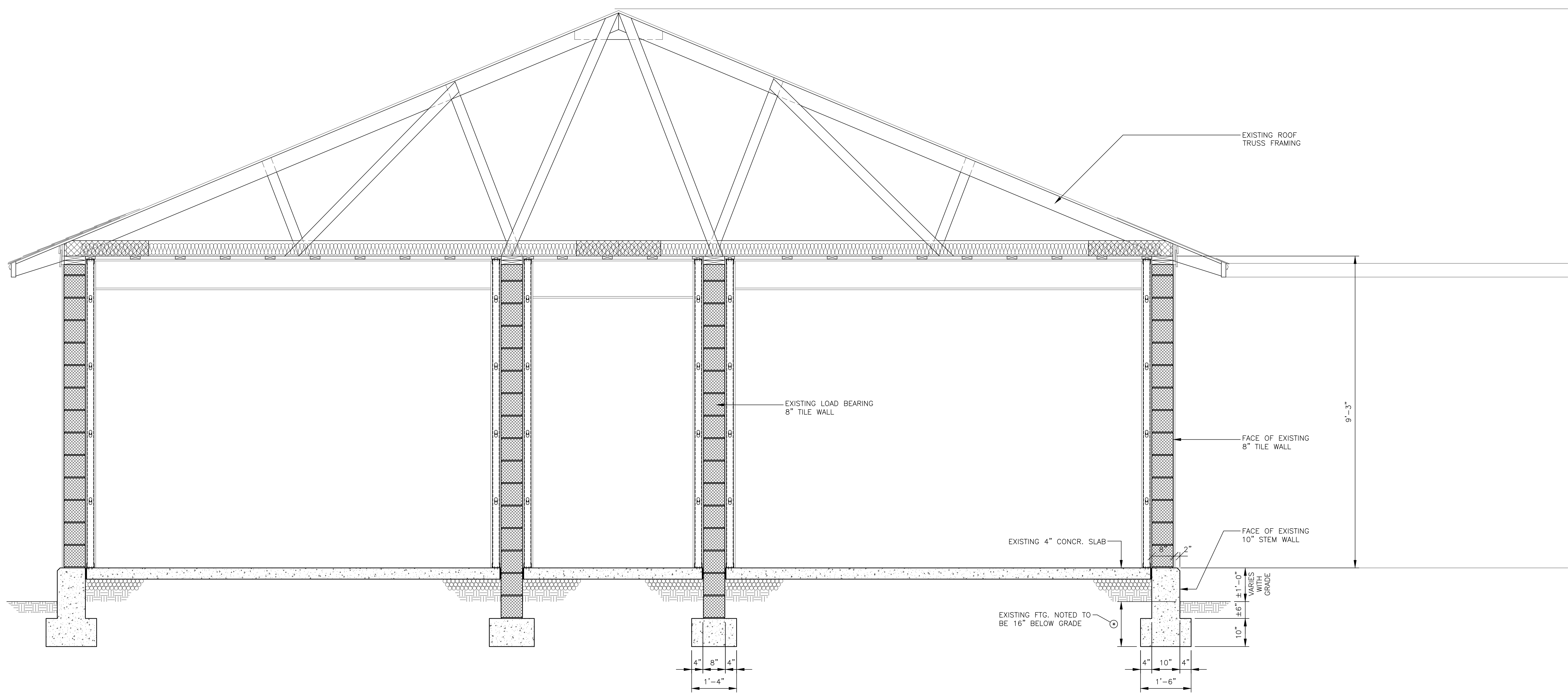
DES. Jason M. Reep, PE
DR. Jason M. Reep, PE
CHK. Jason M. Reep, PE
SUBMITTED BY:
DESIGN DR. T. H. BURTON, P.E.

APPROVED: DATE: SIZE: CODE IDENT. NO. NAVFAC DRAWING NO.
F 80091 60024523

SATISFACTORY TO: DATE: CONST. CONTR. NO. N40085-18-B-0013 SHEET 24 OF 59

SCALE: NOTED SPEC: 05-18-0013

REVISIONS		
SYM.	DATE	APPROVED



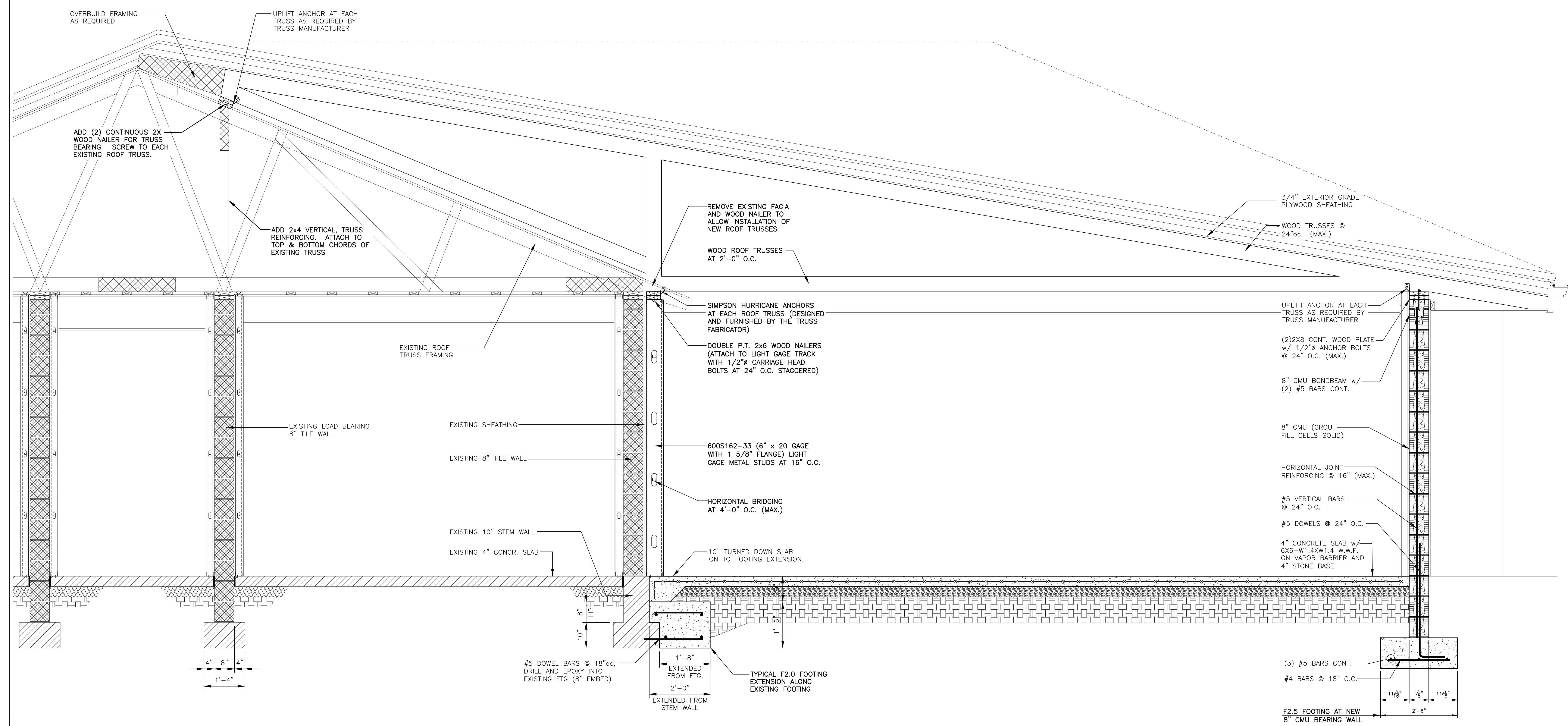
1
S4 **EXISTING FRAMING BUILDING SECTION**
SCALE: 3/4" = 1'-0"

- ALL DIMENSIONS SHOWN IN THESE PLANS ARE BASED ON THE EXISTING BUILDING DRAWINGS AND ARE TO BE CONFIRMED IN THE FIELD. ANY DISCREPANCIES ARE TO COMMUNICATED TO THE ARCHITECT AND EOR AND TO ALL PARTIES PRIOR TO MATERIALS BEING ORDERED AND/OR FABRICATED.
- EXISTING FOOTING ELEVATIONS ARE ALSO TO BE CONFIRMED WHERE NEW ADDITIONS TIE IN. NEW FOOTING ELEVATIONS AND STEPS ARE TO BE ADJUSTED AS NECESSARY.

SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

	SHEET TITLE:		BUILDING SECTION		S4	
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150		DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
	DES. Jason M. Reep, PE		BUILDING M131			
	DR. Jason M. Reep, PE		INTERIOR & EXTERIOR REPAIRS			
CHK. Jason M. Reep, PE		CAMP LEJEUNE, NORTH CAROLINA				
SUBMITTED BY:		DESIGN DR. T. H. BURTON, P.E.		NAVFAC DRAWING NO. 60024524		
APPROVED:		DATE	SIZE	CODE IDENT. NO.	CONST. CONTR. NO. N40085-18-B-0013	
SATISFACTORY TO:		DATE	F	80091	SHEET 25 OF 59	
SCALE: NOTED		SPEC: 05-18-0013		SHEET 25 OF 59		

REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED



1 NEW ADDITION BUILDING SECTION
 S5 SCALE: 3/4" = 1'-0"

SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

	SHEET TITLE:		BUILDING SECTION		S5	
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
DES. Jason M. Reep, PE		DR. Jason M. Reep, PE		BUILDING M131		
CHK. Jason M. Reep, PE		SUBMITTED BY:		INTERIOR & EXTERIOR REPAIRS		
DESIGN DR. T. H. BURTON, P.E.		APPROVED:		CAMP LEJEUNE, NORTH CAROLINA		
P.O. BOX 9918 WICHITRY, NORTH CAROLINA 28603 WWW.TAYLORVIOLA.COM (888) 338-8331 FAX (888) 338-1801		DATE	SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.	
			F	80091	60024525	
SATISFACTORY TO:		DATE	SCALE: NOTED	SPEC: 05-18-0013	SHEET 26 OF 59	

REVISIONS	
SYM.	

GENERAL:

- REFER TO FA-4 FOR DETAIL DIAGRAMS AND SEQUENCE OF OPERATIONS MATRIX.
- THE LAYOUT SHOWN, IS TO CONVEY THE DESIGN INTENT. THE FINAL SYSTEM LAYOUT SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH LISTED DESIGN CRITERIA.

DESIGN CRITERIA - FIRE ALARM/MASS NOTIFICATION SYS.

THE SYSTEM SHALL COMPLY WITH THE FOLLOWING CODES AND STANDARDS.

- NFPA 70 NATIONAL ELECTRICAL CODE - 2017 ED.
- NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE - 2019 ED.
- NFPA 101 LIFE SAFETY CODE - 2018 ED.
- UFC 1-200-01 GENERAL BUILDING REQUIREMENTS
- UFC 3-600-01 DESIGN: FIRE PROTECTION ENGINEERING FOR FACILITIES
- UFC 3-520-01 INTERIOR ELECTRICAL SYSTEM
- UFC 4-021-01 DESIGN AND O&M: MASS NOTIFICATION SYSTEMS

DEMOLITION NOTES:

- REMOVE EXISTING FIRE ALARM SYSTEM COMPLETE, REMOVE JUNCTION BOXES, AND ASSOCIATED WIRING NO LONGER ASSOCIATED WITH DEVICES.
- REMOVE ABANDONED CONDUIT WHERE NOT EMBEDDED IN MASONRY WALLS OR CONCRETE SLABS.
- FIELD VERIFY EXISTING CONDITIONS THAT MAY AFFECT THE SYSTEM OPERATION, INSTALLATION, OR COMPLIANCE WITH NFPA, 72 AND NOTIFY THE CONTRACTING OFFICER PRIOR TO BEGINNING WORK.
- DAMAGE CAUSED BY DEMOLITION MUST BE REPAIRED (I.E. CEILING TILE, WALL FINISHES, SCREW HOLES, HOLES LEFT FROM CONDUIT, DEVICE/EQUIPMENT REMOVAL).

CONTROL PANEL:

- THE FIRE ALARM /MASS NOTIFICATION CONTROL PANEL (FMCP) SHALL BE A SITE PROGRAMMABLE ADDRESSABLE SYSTEM WITH VOICE EVACUATION.
- THE FMCP SHALL BE LOCATED IN AN YEAR-ROUND ENVIRONMENTALLY CONDITIONED SPACE AND RECESSED WHEN IN A FINISHED SPACE.
- THE FMCP SHALL HAVE AN 80 CHARACTER (MIN.) LCD ALPHANUMERIC DISPLAY AND A 400 EVENTS NON-VOLATILE HISTORY LOG MEMORY
- CABINETS/PANELS (CONTROL, BATTERY, LOC, POWER BOOSTER, ETC.) SHALL BE SEMI-RECESSED PANEL WHEN LOCATED IN A FINISHED SPACE.
- ALL CONTROL FUNCTIONS SHALL BE ACCESSIBLE ONLY BY USER CODE OR SECURED BEHIND A LOCKED CABINET.

INTERFACE/CONTROLS:

- MONITORING MODULES AND CONTROL MODULES/RELAYS SHALL BE ADDRESSABLE AND LOCATED WITHIN 36" OF THE SPECIFIC DEVICE OR EQUIPMENT IT CONTROLS OR MONITORS.
- PROVIDE EACH TAMPER SWITCH WITH A SEPARATE ADDRESS. CLEARLY LABEL EACH ADDRESSABLE DEVICE AND CIRCUIT WITH A TYPED PRINTABLE LABEL AFFIXED TO EACH DEVICE.

POWER/BATTERIES:

- PRIMARY AC POWER TO THE SYSTEM SHALL BE FED FROM A DEDICATED CIRCUIT WITH A RED CIRCUIT BREAKER AND A LOCK OPEN DEVICE.
- SECONDARY POWER SHALL BE BY RECHARGEABLE BATTERIES SIZED TO OPERATE THE SYSTEM FOR EITHER 48 HRS IN STANDBY/SUPERVISOR MODE WITH AN ADDITIONAL 15 MIN IN ALARM OR 60 MIN FULL ALARM IMMEDIATELY AFTER LOSS OF PRIMARY POWER, WHICHEVER IS GREATER.
- THE SYSTEM SHALL INCLUDE FULLY AUTOMATIC, SOLID STATE BATTERY CHARGER(S) UTILIZING A TRICKLE-CHARGE OR A FLOAT-CHARGE. THE CHARGER(S) SHALL HAVE THE CAPACITY TO RECHARGE BATTERIES TO 95% OF FULL CHARGE WITHIN 48 HOURS.
- THE BATTERIES WITH CHARGER(S) SHALL BE HOUSED IN THE FMCP CABINET OR AN ADJACENT BATTERY CABINET. POWER BOOSTERS WITH CHARGER(S), SHALL BE LOCATED ON THE FLOOR OR IN THE ZONE IT SERVES.

INITIATING CIRCUITS (SLC):

- THE INITIATING CIRCUITS SHALL BE CLASS "A".
- ALL SMOKE DETECTORS CONNECTED TO THE FMCP SHALL HAVE AN ADJUSTABLE ALARM VERIFICATION FEATURE, INITIALLY SET AT 20 SECONDS.
- ALL SMOKE DETECTORS SHALL BE PHOTO-ELECTRIC UNLESS NOTED OTHERWISE.
- MANUAL PULL STATIONS SHALL BE ADDRESSABLE DOUBLE ACTION TYPE WITH MECHANICAL RESET FEATURES. IF RESET BY KEY, IT SHALL BE THE SAME AS REQUIRED FOR THE CONTROL PANEL.
- EACH SPRINKLER WATERFLOW SWITCH SHALL HAVE A SEPARATE ADDRESS.






















NOTIFICATION CIRCUITS (NAC):

- THE FMCP NOTIFICATION CIRCUITS SHALL BE A CLASS "A".
- THE AUDIBLE ALARM NOTIFICATION SHALL BE BY VOICE EVACUATION SYSTEM. SPEAKERS SHALL HAVE MANUALLY SELECTABLE MULTIVARIABLE WATTAGE, 0.25 TO 1.0 WATTS IN 0.25 WATT INCREMENTS. INITIAL SETTING TO BE AT 0.50 WATTS.
- VOICE MESSAGES SHALL BE FEMALE, AND UTILIZE THE INSTALLATIONS STANDARD SIGNALS AND MESSAGES. MESSAGES SHALL BE APPROVED BY THE SERVING FIRE DEPARTMENT OR AHJ.
- THE NUMBER AND PLACEMENT OF SPEAKER(S) TO BE SUFFICIENT TO PROVIDE 0.70 (CSI SCORE) AUDIBILITY RATING WITHIN THE AREA OF ALL DOORS, FIRE SHUTTERS, MOVABLE PARTITIONS, AND SIMILAR DEVICES CLOSED.
- VISUAL NOTIFICATION SHALL BE PROVIDED IN ALL NORMALLY OCCUPIED, PUBLIC, AND COMMON USE AREAS. OFFICES DESIGNED FOR FOUR OR MORE PERSONS SHALL HAVE VISUAL NOTIFICATION.
- VISUAL NOTIFICATION SHALL BE PROVIDED IN ALL NORMALLY UNOCCUPIED AREAS GREATER THAN 900 SQ. FT. SUCH AS MECH., ELECTRICAL, STORAGE, COMMUNICATIONS, JANITORS ROOMS, AND SIMILAR SPACES.
- STROBES SHALL HAVE MANUALLY SELECTABLE CANDELA RATINGS, 15 TO 110 CANDELA. CANDELA RATING SHALL BE BASED ON LOCATION AND QUANTITY IN A ROOM IN ACCORDANCE WITH NFPA 72.
- VISIBLE NOTIFICATION APPLIANCES SHALL HAVE CLEAR LENS IN A WHITE HOUSING MARKED "ALERT" IN RED.

WIRING, CONDUIT:

- ALL CONDUCTORS TO BE RUN IN 3/4" MINIMUM RIGID METAL CONDUIT (EMT). PROVIDE CONDUIT SIZES, QUANTITIES, AND CONFIGURATION IN ACCORDANCE WITH LISTED DESIGN CRITERIA AND MANUFACTURER'S APPROVED SHOP DRAWINGS.
- ALL CONDUCTORS SHALL BE EITHER STRANDED OR SOLID COPPER. 18 AWG MIN FOR SLC AND 16 AWG MIN. FOR NAC CIRCUITS
- ALL CONDUIT, WIRES, AND CABLES IN FINISHED SPACES SHALL BE CONCEALED IN WALLS, CEILING, AND SIMILAR SPACES.
- ALL CONDUCTORS TO RUN SPLICE FREE FROM DEVICE TO DEVICE. WIRE NUTS, CRIMPED CONNECTORS, OR TWISTING OF CONDUCTORS IS PROHIBITED.
- RUN ALL WIRING TO AND WITHIN THE CONTROL PANELS IN THE VERTICAL OR HORIZONTAL PLANE, MAKE ALL TURNS AT 90 DEGREES ANGLES, AND TIGHTLY BUNDLED AND WRAPPED. IDENTIFY ALL CONDUCTORS INDIVIDUALLY WITH PERMANENT PRINTED LABELS AFFIXED WITH SHRINK WRAP.
- DEVICE CONNECTIONS SHALL BE THE DEVICE SCREW TERMINALS OR TERMINAL STRIPS MOUNTED WITHIN THE JUNCTION BOX.
- ALL CONDUIT, JUNCTION/BACK BOXES, COVERS, AND COUPLINGS ARE TO BE FACTORY PAINTED RED IN UNFINISHED AREAS (E.G. ABOVE CEILINGS, IN MECHANICAL ROOMS, ETC).
- ALL CONDUIT, JUNCTION/BACK BOXES, COVERS AND COUPLINGS ARE PERMITTED TO BE PAINTED TO MATCH ROOM FINISH. THE INSIDE COVER OF JUNCTION BOXES TO BE IDENTIFIED AS "FIRE ALARM". CONDUIT TO HAVE 3/4" RED BANDS EVERY 20 FT AND BOTH SIDES OF ALL FLOORS, WALLS, AND CEILING PENETRATIONS.
- PROVIDE A SURGE SUPPRESSOR (SPD) ON ALL SLC AND NAC CIRCUIT THAT LEAVES OR ENTERS THE FACILITY'S EXTERIOR ENCLOSURE (EXCLUDING WALL MOUNTED DEVICES) (EG. ELECTRIC BELL OR SPEAKER). LOCATE SPD AT FIRST CONNECTION CLOSEST TO WHERE CIRCUIT ENTERS OR LEAVES THE FACILITY, PRIOR TO THE DEVICE.
- 120 VAC CIRCUITS TO CONTROL PANELS, SUBPANELS, TRANSMITTERS, AMPLIFIER PANELS, AND BOOSTER PANELS SHALL BE EQUIPPED WITH SPD. THE SPD SHALL BE LOCATED IN AN ADJACENT HINGED TERMINAL BOX.



LEGEND

-  MANUAL PULL STATION
-  SMOKE DETECTOR
-  IN DUCT SMOKE DETECTOR
-  CARBON MONOXIDE TRANSMITTER
-  FLOW SWITCH MONITORING MODULE
-  PRESSURE SWITCH MONITORING MODULE
-  TAMPER SWITCH MONITORING MODULE
-  SPEAKER STROBE; # INDICATES CANDELA RATING
-  FIRE DEPARTMENT KNOX BOX
-  WALL MOUNT STROBE; # INDICATES CANDELA RATING
-  HORN STROBE
-  SPEAKER
-  FIRE ALARM CONTROL PANEL
-  FIRE ALARM/MASS NOTIFICATION CONTROL PANEL
-  FIRE RADIO TRANSMITTER
-  MASS NOTIFICATION TRANSCEIVER
-  LOCAL OPERATING CONSOLE
-  HORN
-  ELECTRIC BELL
-  MICROPHONE
-  REMOTE TEST STATION

SUBSCRIPTS

- (WP) WEATHERPROOF
- (CM) CEILING MOUNT
- (X) EXISTING
- SP SMOKE PARTITION
- 1 HOUR FIRE BARRIER WALL

SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

 <p>Lovett Consultants 4405 Morris Park Dr. Suite II Mint Hill, NC 28227 Ph: 704.545.8393 Fire Protection & Building Code Specialists NC Firm License No: P-0296</p>	SHEET TITLE: FIRE ALARM LEGEND AND NOTES		FA-1		
	<p>TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150</p>	<p>DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA</p>			
	DES: GMM	<p>INTERIOR/EXTERIOR REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA</p>			
	DR: ANP				
	CHK: JLL				
	SUBMITTED BY:				
DESIGN DIR:	APPROVED:	DATE:	SIZE: F	CODE IDENT. NO.: 80091	NAVFAC DRAWING NO.: 60024526
SATISFACTORY TO:	DATE:	CONST. CONTR. NO.: N40085-19-B-0025	SHEET 27 OF 59		

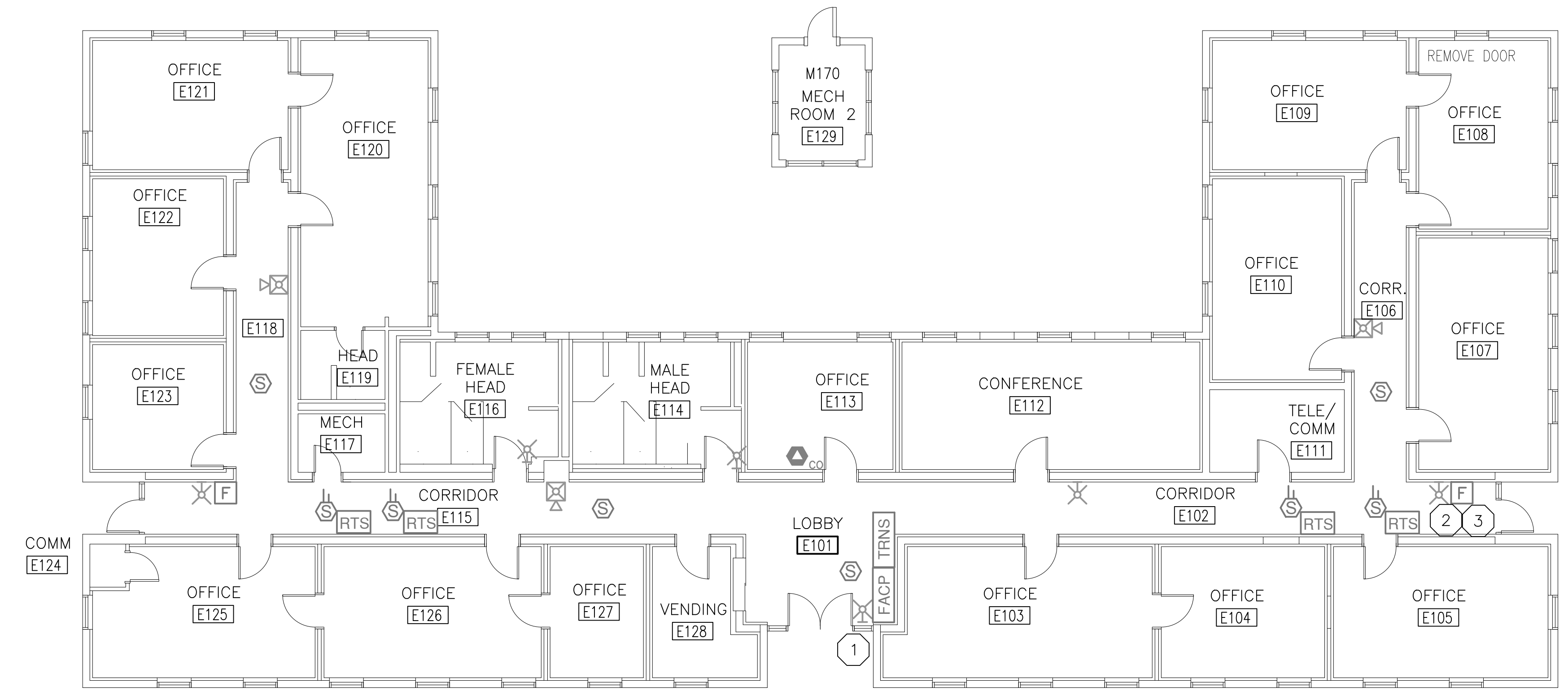
REVISIONS	
SYM.	

SHEET NOTES:

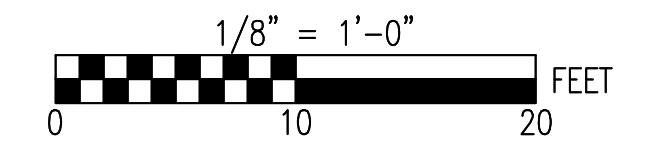
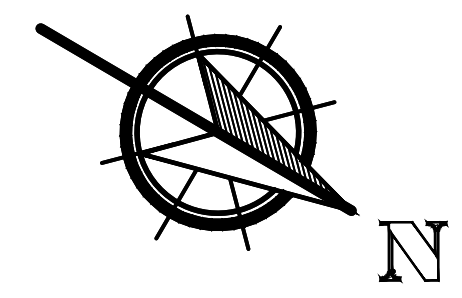
- REFERENCE FA-1 FOR NOTES AND LEGEND.

KEY NOTES:


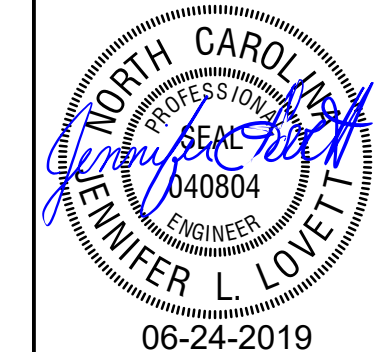
- STROBE IS 7'2" AFF
- STROBE IS 7'4" AFF
- MANUAL PULL STATION IS 5'8" AFF



EXISTING FIRE ALARM FLOOR PLAN 1
FA
2
1/8" = 1'-0"

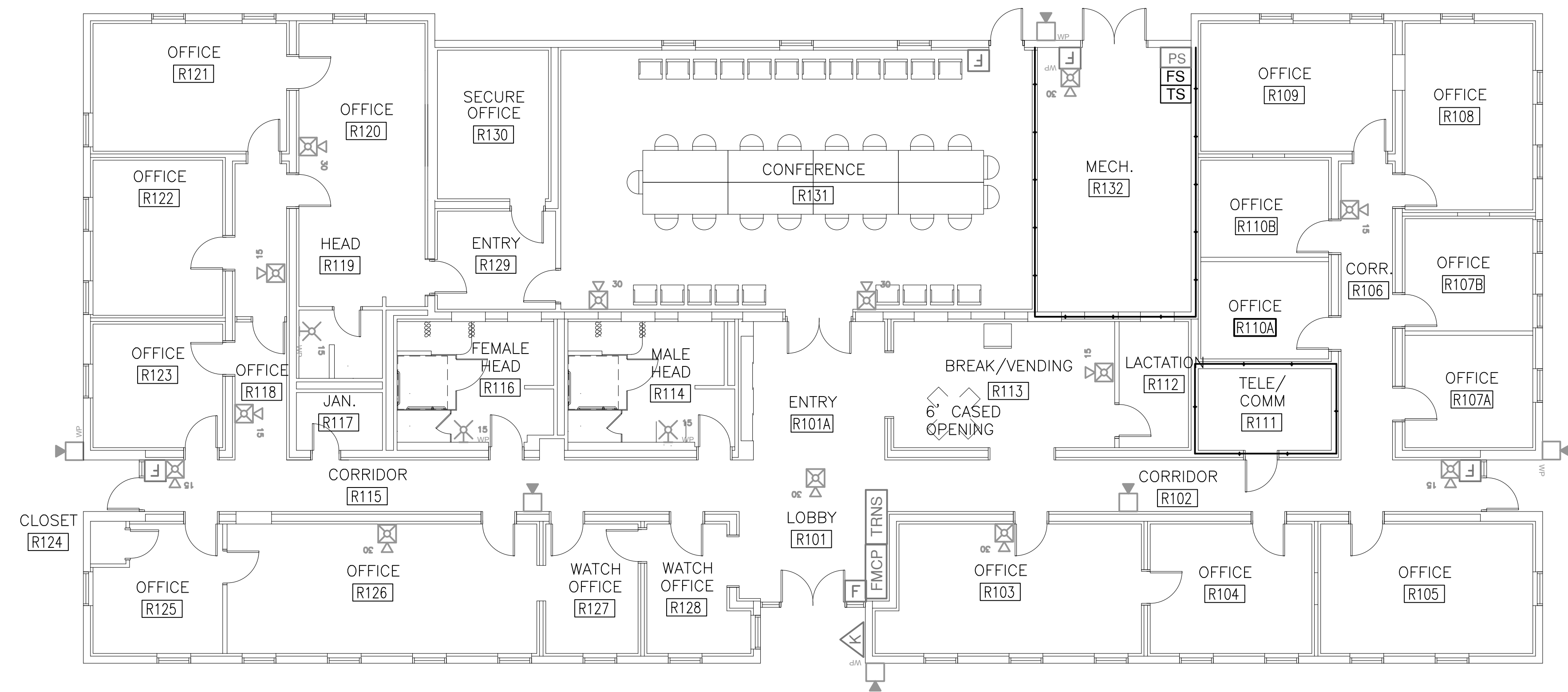


SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

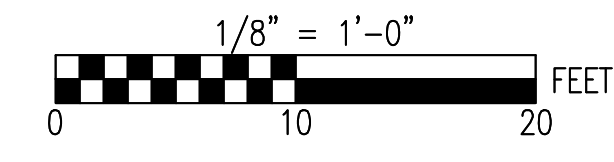
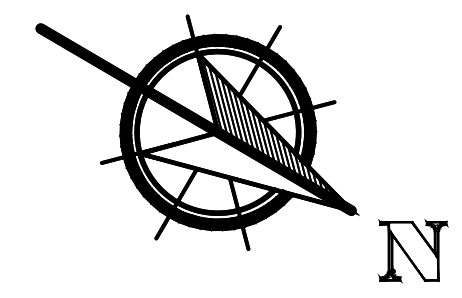
 Lovett Consultants <small>4405 Morris Park Dr. Suite II Mint Hill, NC 28227 Ph: 704.545.8393 Fire Protection & Building Code Specialists NC Firm License No: P-0296</small>	SHEET TITLE: EXISTING FIRE ALARM FLOOR PLAN	FA-2
	<small>TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150</small>	
	MARINE CORPS BASE <small>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND CAMP LEJEUNE, NORTH CAROLINA</small>	
	INTERIOR/EXTERIOR REPAIRS BLDG. M131 <small>CAMP LEJEUNE, NORTH CAROLINA</small>	
<small>DES. GMM DR. ANP CHK. JLL SUBMITTED BY: DESIGN DIR. APPROVED:</small>	<small>DATE</small> <small>DATE</small>	<small>SIZE</small> F <small>CODE IDENT. NO.</small> 80091 <small>NAVFAC DRAWING NO.</small> 60024527
<small>SATISFACTORY TO:</small>	<small>DATE</small>	<small>CONST. CONTR. NO.</small> N40085-19-B-0025 <small>SCALE: NOTED</small> <small>SPEC.</small> 05-19-0025
		<small>SHEET 28 OF 59</small>

REVISIONS	
SYM.	


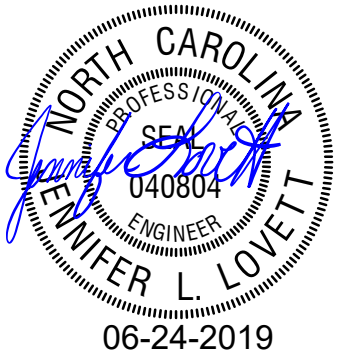
- SHEET NOTES:**
1. REFERENCE FA-1 FOR NOTES AND LEGEND.
 2. REFER TO FA-4 FOR FOR DETAILS AND RISER DIAGRAM



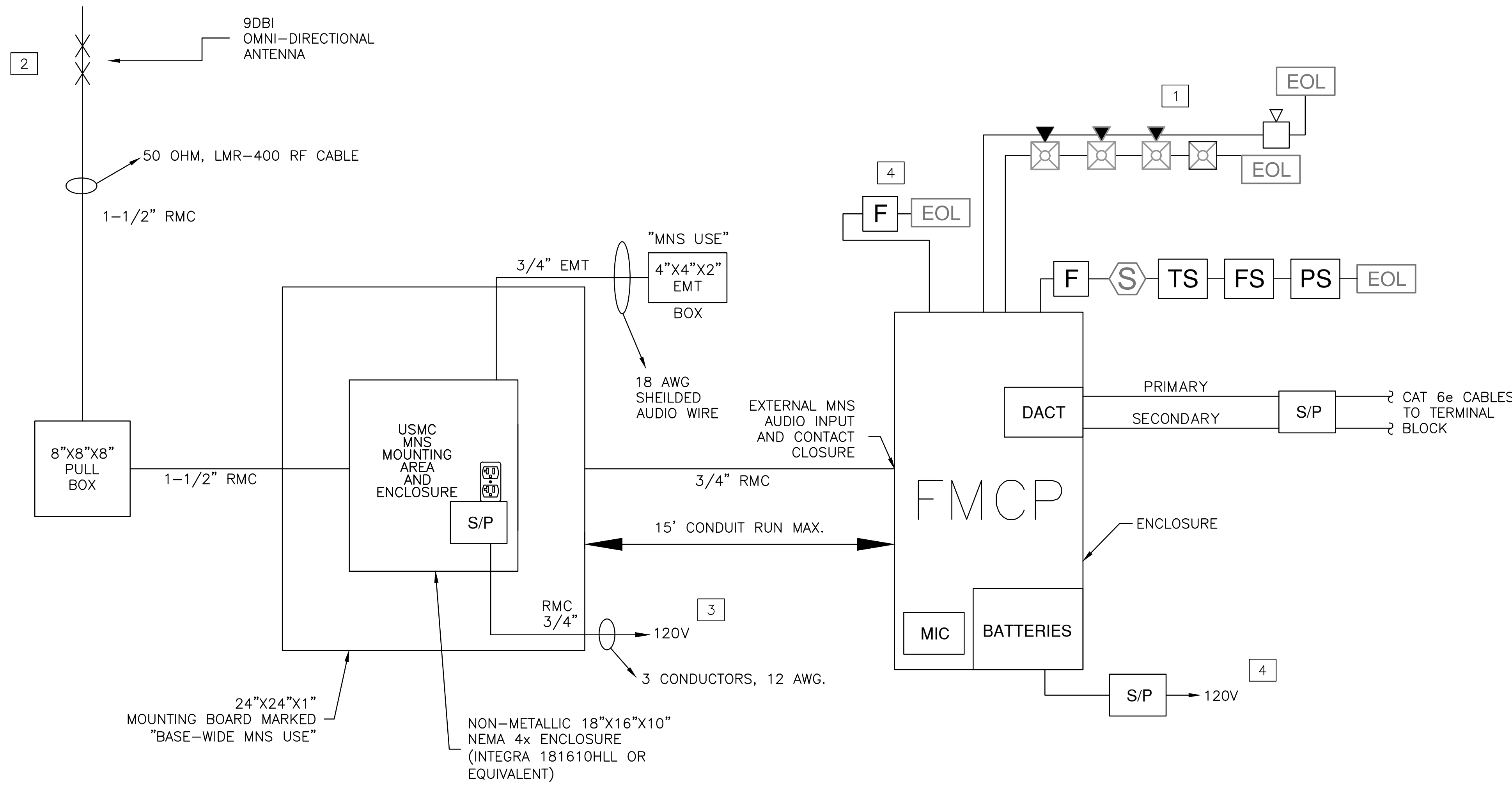
RENOVATED FIRE ALARM FLOOR PLAN 1
FA
3
1/8" = 1'-0"



SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

 Lovett Consultants <small>4405 Morris Park Dr. Suite II Mint Hill, NC 28227 Ph: 704.545.8303 Fire Protection & Building Code Specialists NC Firm License No: P-0296</small>	SHEET TITLE: RENOVATED FIRE ALARM FLOOR PLAN		FA-3	
	<small>TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150</small>		<small>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA</small>	
	DES. GMM	INTERIOR/EXTERIOR REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA		
	DR. ANP			
	CHK. JLL	APPROVED: _____ DATE _____	SIZE: F	CODE IDENT. NO.: 80091
	SUBMITTED BY: _____	DESIGN DIR. _____	NAVFAC DRAWING NO.: 60024528	CONST. CONTR. NO.: N40085-19-B-0025
SATISFACTORY TO: _____ DATE _____	SCALE: NOTED	SPEC. 05-19-0025	SHEET 29 OF 59	

SYL.	REVISIONS



RISER DETAIL
NTS

SHEET NOTES:

- REFERENCE FA-1 FOR NOTES AND LEGEND.
- REFERENCE FA-3 FOR FLOOR PLAN

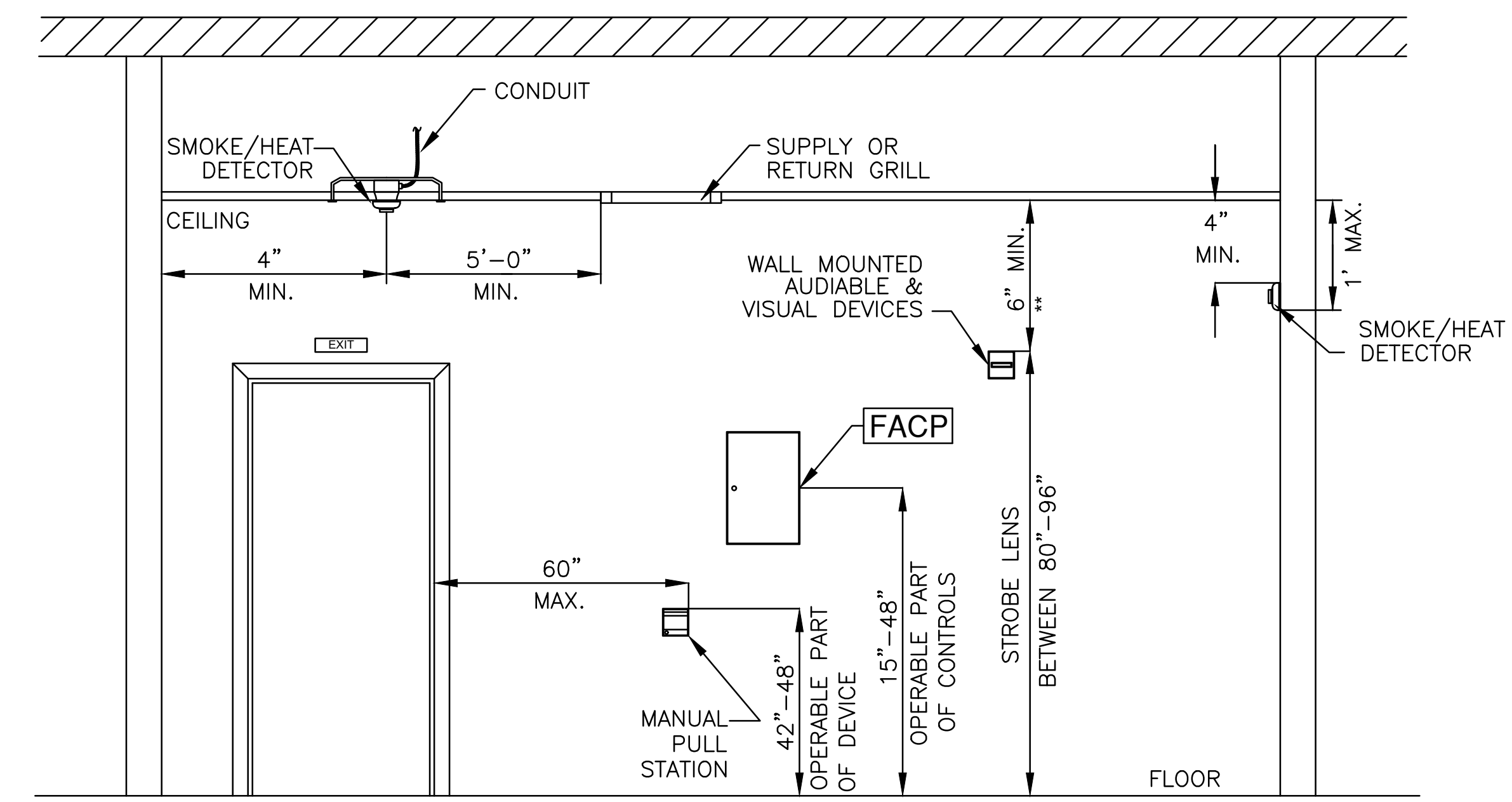
KEY NOTES:

- SEE FLOOR PLAN FOR EXACT NUMBER AND LOCATION OF DEVICES.
- 4 FEET ABOVE THE APEX OF THE ROOFLINE WITH A UL LISTED WEATHERHEAD
- CIRCUITS PROVIDED W/ RED BREAKERS, LOCK OPEN DEVICE AND FED FROM THE SAME ELECTRICAL PANEL.
- SEPARATE SLC CIRCUIT THAT WILL NOT BE PLACED ON TEST MODE

ACTION TO BE INITIATED ↓	ACTION TO BE INITIATED →									
	ACTUATE AUDIBLE & VISUAL ALARM SIGNAL INDICATOR & ALARM @ FACP	ACTUATE AUDIBLE & VISUAL SUPERVISORY SIGNAL INDICATOR & ALARM @ FACP	ACTUATE AUDIBLE & VISUAL TROUBLE SIGNAL INDICATOR & ALARM @ FACP	DISPLAY / PRINT CHANGE OF STATUS ON FACP	TRANSMIT SIGNAL TO MONITORING STATION	ACTUATE FIRE ALARM AUDIBLE MESSAGE	ACTIVATE ALERT VISUAL APPLIANCES	OVERRIDE PRE-RECORDED DIGITIZED VOICE MESSAGE	OVERRIDE FIRE ALARM AUDIBLE SIGNALS	BROADCAST MNS AUDIBLE MESSAGE
MANUAL PULL STATION	X			X	X	X	X			
GENERAL SMOKE DETECTOR	X			X	X	X	X			
DUCT SMOKE DETECTOR		X		X	X					
WATERFLOW SWITCH	X			X	X	X	X			
TAMPER SWITCH		X		X	X					
FIRE ALARM AC POWER FAILURE				X	X	X				
FIRE ALARM SYS LOW BATTERY				X	X	X				
OPEN CIRCUIT/GROUND FAULT				X	X	X				
NOTIFICATION APPLIANCE SHORT				X	X	X				
FIRE ALARM LIVE VOICE MESSAGE	X			X	X	X	X	X	X	
MNS LIVE VOICE MESSAGE		X		X	X		X	X	X	X
MNS AUTONOMOUS CONTROL UNIT		X		X	X		X		X	X

DISREGARD OPERATIONAL DEVICES AND RELATED OUTPUTS IF THEY ARE NOT PROVIDED WITHIN THE BUILDING

OPERATIONAL MATRIX
NTS



** ONLY WHEN 80"-96" CAN NOT BE MET

MOUNTING HEIGHTS
NTS

Lovett Consultants 4405 Morris Park Dr. Suite II Mint Hill, NC 28227 Ph: 704.545.8303 Fire Protection & Building Code Specialists NC Firm License No: P-0296	SHEET TITLE:	FIRE ALARM DETAILS	FA-4
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	INTERIOR/EXTERIOR REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA
	DESIGNER:	GMM	APPROVED: _____ DATE _____ SATISFACTORY TO: _____ DATE _____
	DR:	ANP	
	CHK:	JLL	CONST. CONTR. NO.: N40085-19-B-0025 SCALE: NOTED SPEC: 05-19-0025 SHEET 30 OF 59

REVISIONS	
SYM.	

GENERAL NOTES:

1. SPRINKLER SYSTEMS TO BE INSTALLED COMPLETE AND OPERATIVE THROUGHOUT THE BUILDING IN ACCORDANCE WITH UFC 3-600-01, CHANGE 2, AND NFPA 13.
2. FIELD VERIFY JOB CONDITIONS AND VERIFY ALL MEASUREMENTS, DISTANCES, ELEVATIONS, CLEARANCES, PIPE SIZES, ETC. THAT MAY AFFECT THE SYSTEM INSTALLATION OR COMPLIANCE WITH NFPA 13, AND NOTIFY THE CONTRACTING OFFICER PRIOR TO BEGINNING WORK.
3. FINAL SPRINKLER PLACEMENT, PIPE ROUTING, AND QUANTITY SHALL BE COORDINATED BETWEEN SPRINKLER CONTRACTOR AND GENERAL CONTRACTOR. PIPE ROUTING SHOWN IS SUGGESTED. FINAL ROUTING TO BE SHOWN AND APPROVED THROUGH THE SHOP DRAWINGS.
4. ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, AND ELECTRICAL BACKGROUND INFORMATION SHOWN IS FOR COORDINATION PURPOSES ONLY. REFER TO THE PROPER DRAWINGS FOR EXACT LOCATIONS, SIZES, AND QUANTITIES OF OTHER TRADES' WORK.
5. LOCATION OF TEST CONNECTIONS AND AUXILIARY DRAINS SHALL MEET NFPA 13 AND LOCAL CODES.
6. ALL VALVES SHALL BE READILY ACCESSIBLE FOR OPERATION.
7. PIPE TO BE SCHEDULE 40 BLACK STEEL FOR PIPES 2" AND SMALLER; AND PIPING LARGER THAN 2" MUST BE A MINIMUM OF SCHEDULE 10.
8. PIPE TO BE RUN CONCEALED ABOVE CEILINGS.

PIPE HANGER NOTES:

1. PIPES LARGER THAN 4 IN. RUNNING PARALLEL TO BAR JOISTS SHALL BE HUNG FROM TRAPEZE HANGERS SUPPORTED NEARLY EQUALLY BY JOISTS.
2. ONLY ONE PIPE SHALL BE SUPPORTED FROM A SINGLE TRAPEZE HANGER UNLESS OTHERWISE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD.
3. HANGERS WITH MORE THAN 150 POUNDS OF LOAD SHOULD BE ATTACHED TO THE BAR JOIST AT A PANEL POINT.

TELECOM, I.T., AND ELECTRICAL ROOM NOTES:

1. SPRINKLER PIPING SUPPLY LINES SHALL NOT RUN THROUGH TELECOM, I.T., OR ELECTRICAL ROOMS.
2. SPRINKLER PIPING SHALL NOT RUN DIRECTLY ABOVE ELECTRICAL PANELS, TRANSFORMERS OR SWITCHGEAR.
3. UTILIZE SIDEWALL SPRINKLERS ABOVE ENTRY DOORS WHERE PRACTICAL.
4. PROVIDE HEAD GUARD ON ALL SPRINKLERS.

SPRINKLERS

PENDENTS: SEMI-RECESSED & PENDENT
 FINISH: CHROME OR WHITE
 TEMP: ORDINARY
 K: 5.6 (LIGHT HAZARD)

UPRIGHTS:
 FINISH: BRONZE OR WHITE
 TEMP: ORDINARY
 K: 5.6 (LIGHT HAZARD) OR 8.0 (ORDINARY HAZARD)

ESCUICHEON: 2 PIECE METAL - LISTED W/SPRINKLER
 FINISH: TO MATCH SPRINKLER
 PROTRUSION FROM SURFACE: 3/4" MAX.

SPRINKLERS NEAR A HEAT SOURCE (UNIT HEATER, DIFFUSER, STEAM MAINS, SKYLIGHT, ETC) SHALL HAVE TEMPERATURE RATING IN ACCORDANCE WITH NFPA 13.

EXTENDED COVERAGE SPRINKLERS ARE NOT PERMITTED

DESIGN CRITERIA - DENSITY/AREA METHOD

THE SYSTEM SHALL COMPLY WITH UFC 3-600-01, CHANGE 2

OFFICE AND PUBLIC AREAS, RESTROOMS, AND CORRIDORS (LIGHT HAZARD WET PIPE FIRE SPRINKLER SYSTEMS):

DENSITY: 0.10 GPM/SQ. FT.
 OPERATING AREA: 1,500 SQ. FT.
 MAXIMUM AREA PER SPRINKLER HEAD: 225 SQ. FT.
 MAXIMUM SPACING BETWEEN HEADS: 15 FT.
 HOSE STREAM ALLOWANCE: 250 GPM

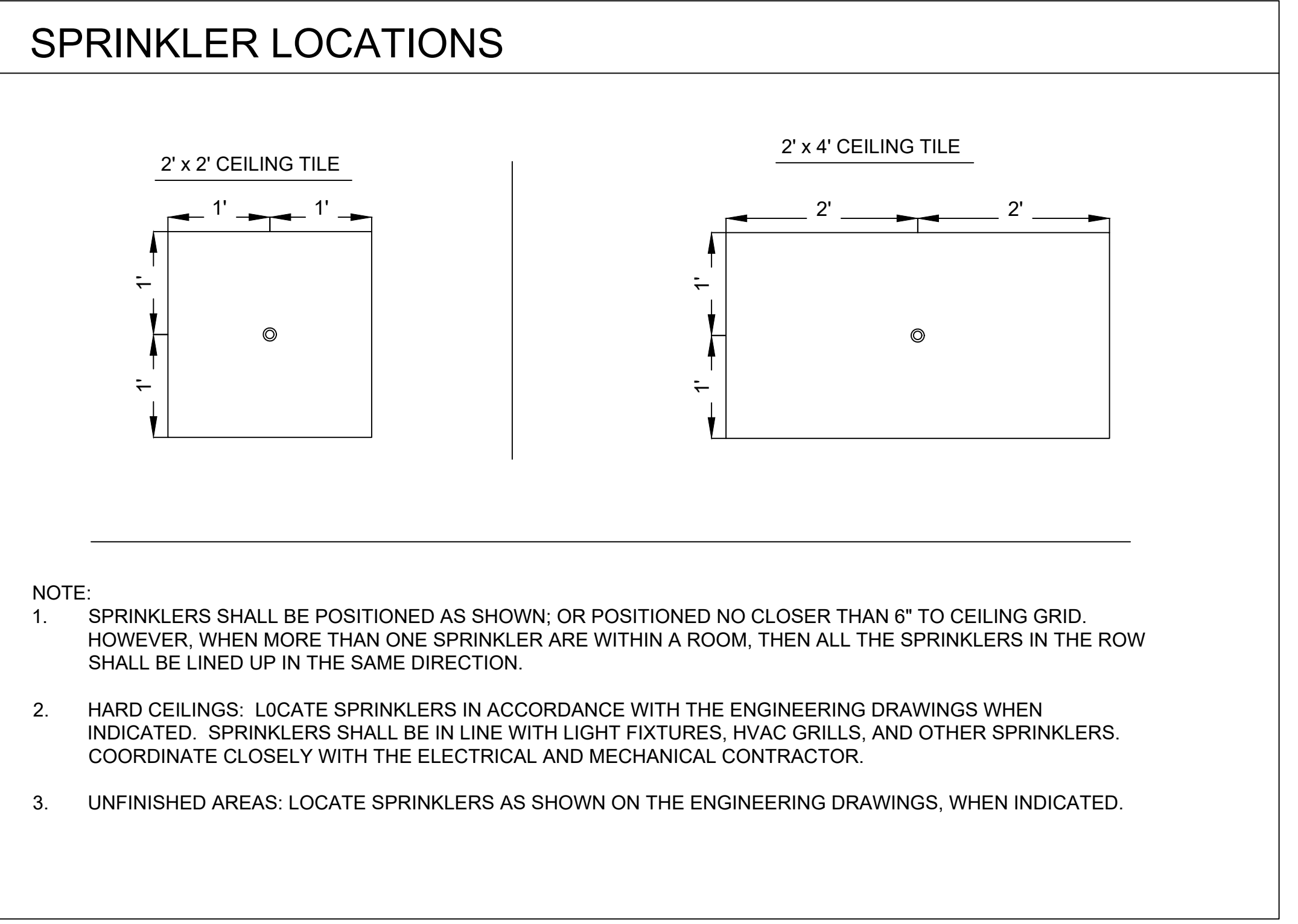
ELECTRICAL AND MECHANICAL, EQUIPMENT ROOMS, BOILER ROOMS, ELEVATOR MACHINE ROOMS, JANITOR'S CLOSETS, MAINTENANCE SHOPS, STORAGE ROOMS, AND LABORATORIES (ORDINARY HAZARD GROUP II WET PIPE FIRE SPRINKLER SYSTEMS):

DENSITY: 0.20 GPM/SQ. F.T
 OPERATING AREA: 2,500 SQ. FT.
 MAXIMUM AREA PER SPRINKLER HEAD: 130 SQ. FT.
 MAXIMUM SPACING BETWEEN HEADS: 12 FT.
 HOSE STREAM ALLOWANCE: 250 GPM

WATER FLOW TEST

APRIL 5, 2018 AT 1236 HOURS
 STATIC: 60 PSI
 RESIDUAL: 45 PSI
 FLOWING: 1048.5 GPM
 LOCATION: HYDRANTS ON SITE
 PERFORMED BY: LOVETT CONSULTANTS

PERFORM AN INDEPENDENT WATER FLOW TEST IN ACCORDANCE WITH NFPA 291, ON WHICH TO BASE THE FINAL SHOP DRAWING DESIGN, AND VERIFY CONSISTENCY OF SYSTEM.



LEGEND

- PIV POST INDICATOR VALVE
- TS TAMPER SWITCH
- WF WATERFLOW SWITCH
- B ELECTRIC ALARM BELL
- SR SPRINKLER RISER ASSEMBLY
- 5" STORZ CONNECTION
- U UPRIGHT SPRINKLER
- P PENDENT SPRINKLER
- AW ABOVEGROUND FIRE WATER MAINS
- FW (U) UNDERGROUND FIRE WATER MAINS
- PC PIPING CONTINUOUS
- PR PIPING RISE
- PD PIPING DROP
- THO TEST HEADER OUTLETS
- FHP FIRE HYDRANT - PUMPER
- WH WET HYDRANT
- SP SMOKE PARTITION
- FWB 1 HOUR FIRE BARRIER WALL

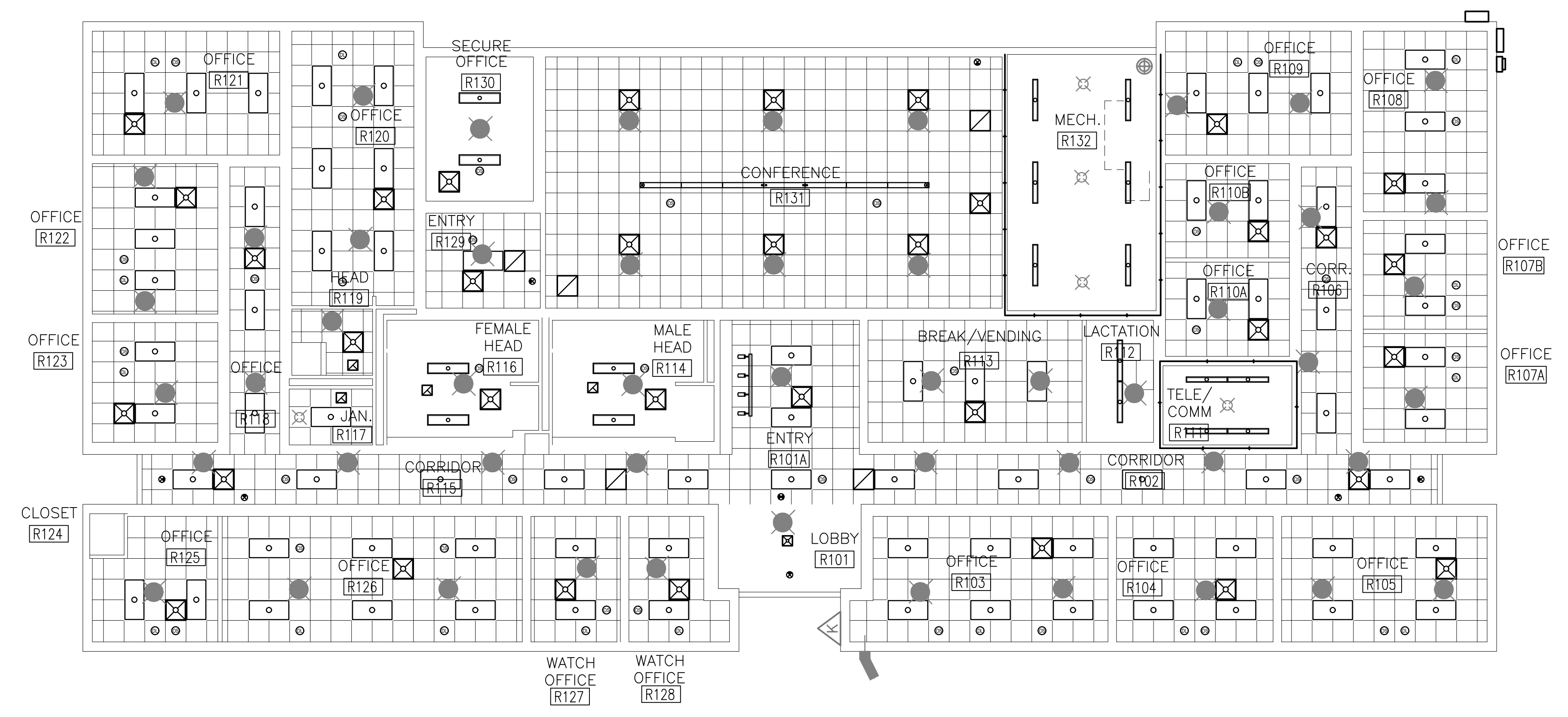
SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

<p>Lovett Consultants 4455 Morris Park Dr. Suite II Mint Hill, NC 28227 Ph: 704.545.8393 Fire Protection & Building Code Specialists NC Firm License No: P-0296</p>	SHEET TITLE: FIRE PROTECTION LEGEND AND NOTES		FP-1
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150	DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
	DES: GMM DR: ANP CHK: JLL SUBMITTED BY: DESIGN DIR:	INTERIOR/EXTERIOR REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA	
APPROVED: _____ DATE: _____ SATISFACTORY TO: _____ DATE: _____	SIZE: F CODE IDENT. NO.: 80091	NAVFAC DRAWING NO.: 60024530 CONST. CONTR. NO.: N40085-19-B-0025	SCALE: NOTED SPEC: 05-19-0025 SHEET 31 OF 59

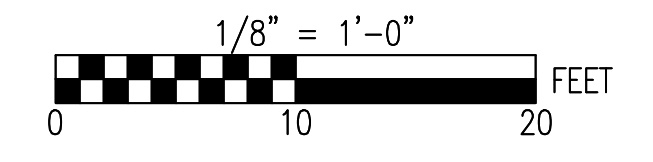
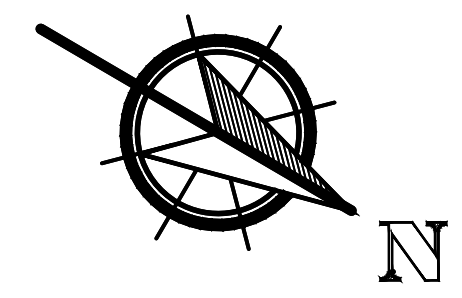
SYM.	REVISIONS

SHEET NOTES:

1. REFERENCE FP-1 FOR NOTES AND LEGEND.
2. REFER TO FP-3 FOR DETAILS AND RISER DIAGRAM



RENOVATED FIRE PROTECTION FLOOR PLAN 1
FP 2
1/8" = 1'-0"



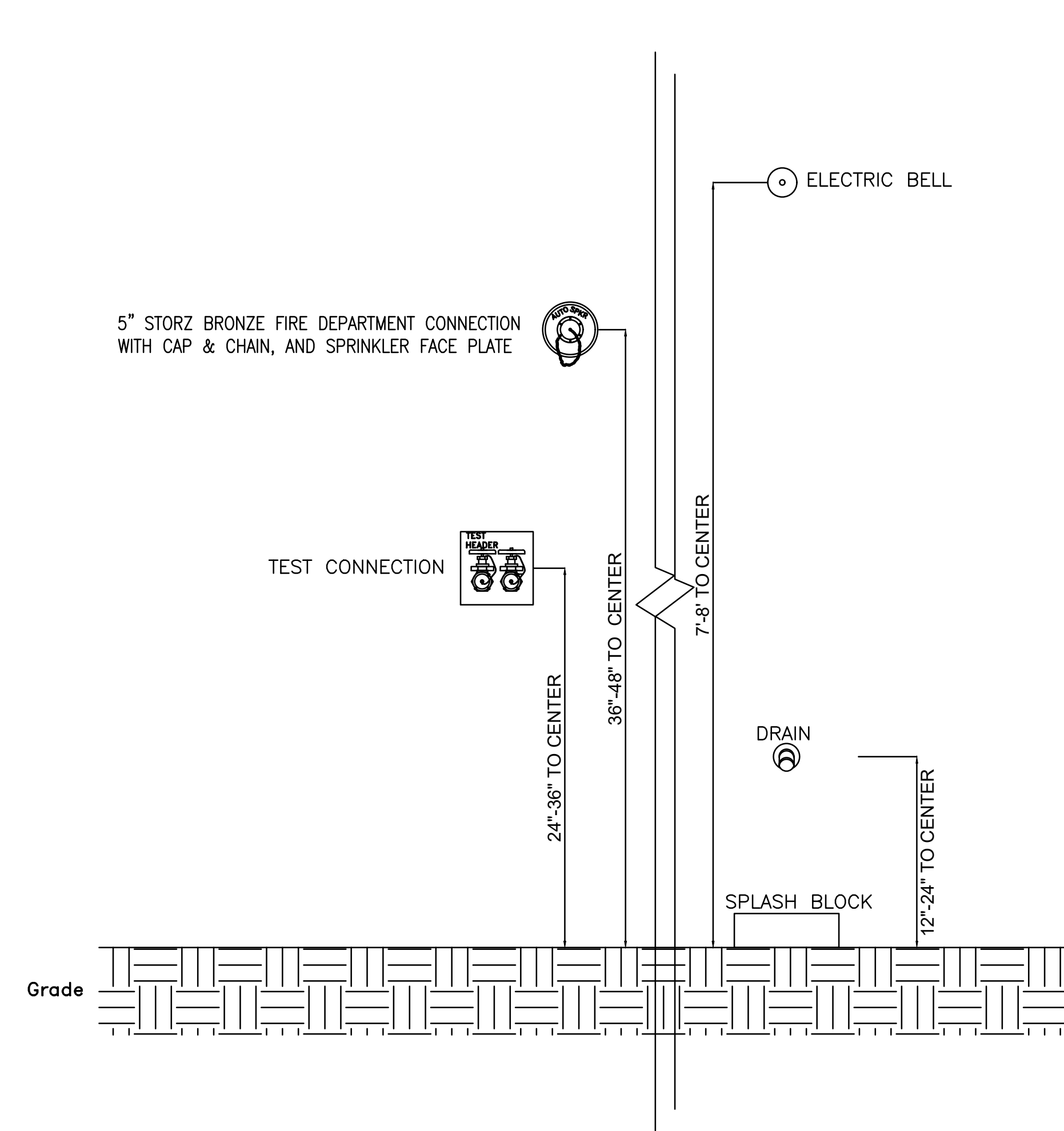
SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

Lovett Consultants <small>4455 Morris Park Dr. Suite II Mint Hill, NC 28227 Ph: 704.545.8303 Fire Protection & Building Code Specialists NC Firm License No: P-0298</small>	SHEET TITLE: RENOVATED FIRE PROTECTION FLOOR PLAN		FP-2
	<small>TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150</small>		
	<small>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA</small>		INTERIOR/EXTERIOR REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA
	<small>DES: GMM DR: ANP CHK: JLL SUBMITTED BY: DESIGN DIR:</small>	<small>APPROVED:</small>	
<small>SATISFACTORY TO:</small>	<small>DATE:</small>	<small>CODE IDENT. NO.: 80091</small>	<small>NAVFAC DRAWING NO.: 60024531</small>
<small>SCALE: NOTED</small>	<small>SPEC: 05-19-0025</small>	<small>CONST. CONTR. NO.: N40085-19-B-0025</small>	<small>SHEET 32 OF 59</small>

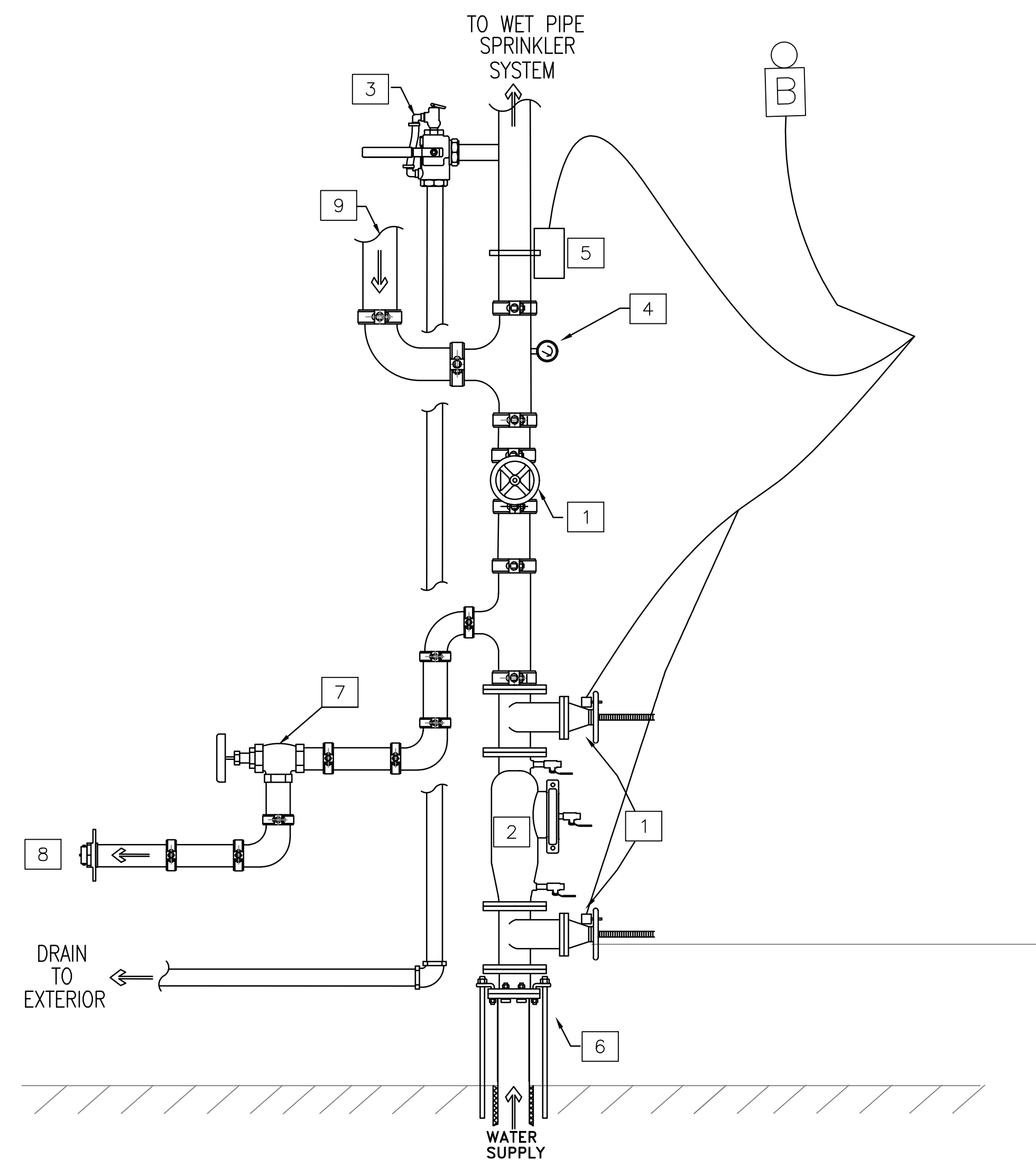
REVISIONS	
SYM.	

SHEET NOTES:

- REFERENCE FP-1 FOR NOTES AND LEGEND.



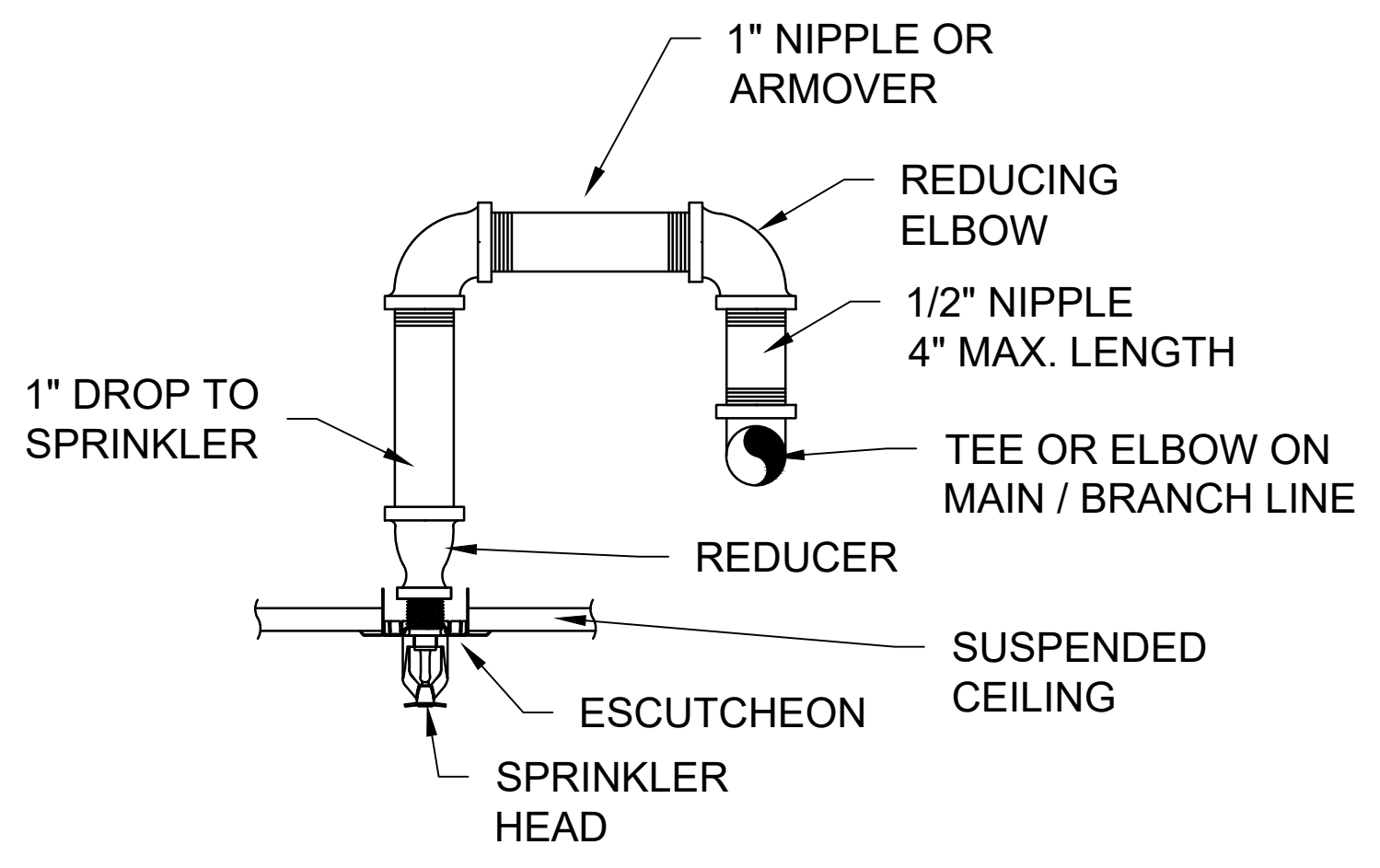
MOUNTING HEIGHTS
NTS **1**



Riser trim to be complete and in accordance with NFPA 13 and the valve manufacturer's instructions.

RISER DIAGRAM
NTS **3**

- KEY NOTES**
- OS&Y VALVE W/TAMPER SWITCH
 - RPZ BACKFLOW PREVENTER
 - TEST AND DRAIN ASSEMBLY W/RELIEF VALVE
 - PRESSURE GAUGE
 - WATER FLOW SWITCH
 - 6" DUCTILE IRON FLANGED FEEDER PIPE
 - TWO 2-1/2" ANGLE VALVES
 - TEST HEADER OUTLETS W/ CAP & CHAIN
 - TO FIRE DEPARTMENT CONNECTION WITH CHECK VALVE
 - CHECK VALVE WITH BALL DRIP



PENDENT SPRINKLER ARMOVER
NTS **2**

SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

<p>Lovett Consultants 4455 Morris Park Dr. Suite II Mint Hill, NC 28227 Ph: 704.545.8303 Fire Protection & Building Code Specialists NC Firm License No: P-0296</p>	SHEET TITLE: FIRE PROTECTION DETAILS		FP-3		
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150			DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
	DES: GMM	INTERIOR/EXTERIOR REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA			
	DR: ANP				
	CHK: JLL				
	SUBMITTED BY:				
DESIGN DIR:	APPROVED:	DATE:	SIZE: F	CODE IDENT. NO.: 80091	NAVFAC DRAWING NO.: 60024532
SATISFACTORY TO:	DATE:	SCALE: NOTED	SPEC: 05-19-0025	CONST. CONTR. NO. N40085-19-B-0025	
			SHEET 33 OF 59		

PLUMBING FIXTURE SCHEDULE						
DRAWING CODE	FIXTURE	DESCRIPTION	NOTES	PIPE SIZE		
				DCW	DHW	WASTE
WC1	FLUSH VALVE WATER CLOSET, FLOOR MTD., 1.6GPF, ADA	BOWL 16.5" HIGH BOWL, ELONGATED, V.C., 2-1/8" TRAPWAY, TOP SPUD, MADERA FLUSH VALVE 11.5" HIGH, 1.6GPF SEAT OFLC w/ SELF-SUSTAINING S.S. CHECK HINGE, HEIGHT 17-19" AFF	8	1"	-	4"
WC2	FLUSH VALVE WATER CLOSET, FLOOR MTD., 1.6GPF	BOWL 15" HIGH BOWL, ELONGATED, V.C., 2-1/8" TRAPWAY, TOP SPUD, MADERA FLUSH VALVE 16" HIGH, 1.6GPF, FLUSH TUBE TRAP PRIMER CONNECTION SEAT OFLC w/ SELF-SUSTAINING S.S. CHECK HINGE		1"	-	4"
UR1	URINAL WALL HUNG, 0.5GPF, ADA	BOWL VITREOUS CHINA, WASHOUT, ELONGATED RIM MTD. 17 A.F.F. MAX., 3/4" TOP SPUD FLUSH VALVE 11.5 HIGH	1	3/4"	-	2"
LAV1	COUNTERTOP LAVATORY, 0.5GPM, ADA	BOWL 20x17 VITREOUS CHINA, 3/4" A.F.F. MAX. FAUCET 4" CENTERSET, SINGLE LEVER HANDLE, SOLID BRASS CONSTRUCTION, CERAMIC CARTRIDGE, HIGH TEMP LIMIT STOP DRAIN GRID STRAINER MIXING VALVE LEAD FREE THERMOSTATIC MIXING VALVE - SETPOINT = 90°F INSTALL ON HOT WATER SUPPLY, ASSE 1070	2,3,4,5,9	1/2"	1/2"	2"
LAV2	COUNTERTOP LAVATORY, 0.5GPM	BOWL 20x17 VITREOUS CHINA FAUCET 4" CENTERSET, SINGLE LEVER HANDLE, SOLID BRASS CONSTRUCTION, CERAMIC CARTRIDGE, HIGH TEMP LIMIT STOP DRAIN GRID STRAINER MIXING VALVE LEAD FREE THERMOSTATIC MIXING VALVE - SETPOINT = 90°F INSTALL ON HOT WATER SUPPLY, ASSE 1070	2,4,9	1/2"	1/2"	2"
SK1	1-COMPARTMENT COUNTERTOP SINK, ADA (SIDE APPROACH)	BOWL 19"x19"x7.5", 18 GA. S.S., 3/4" A.F.F. MAX. FAUCET 18" SWING SPOUT, SINGLE LEVER HANDLE, 3 HOLE, 1.5GPM, SOLID BRASS CONSTRUCTION, CHROME FINISH DRAIN BASKET STRAINER	2,4,5,9	1/2"	1/2"	2"
SS1	SERVICE SINK	SINK 24"x20" ENAMELED CAST IRON, WALL HANGER, RIM GUARD, 9" CENTER DRILL FAUCET BRASS CONSTRUCTION, ROUGH CHROME FINISH, INTEGRAL VACUUM BREAKER, 3/4" THREADED SPOUT, SERVICE STOPS, WALL MOUNT, VANDAL RESISTANT, LEVER HANDLES ACCESSORIES CAST IRON P-TRAP STANDARD TO WALL AND STRAINER FOR 3" IRON PIPE ENCLOSURE JOB-BUILT BY G.C. W/ GRAB BARS per ADA	10	1/2"	1/2"	3"
SH1	JOB-BUILT SHOWER, ADA	VALVE PRESS. BALANCED MIXING VALVE, LEVER HANDLE, DIVERTER, HEAD W/ ARM, FLANGE, WALL/HAND SHOWER, FLEXIBLE METAL HOSE, IN-LINE VAC. BREAKER, 30" SLIDE BAR, 1.5GPM DRAIN 4-3/8" DIA. NICKEL BRONZE STRAINER, PVC		1/2"	1/2"	2"
EW1	WALL HUNG WATER COOLER, ADA	FIXT SPLIT LEVEL, S.S. TOP, LIGHT GREY BODY, BOTTLE FILLING STATION, 8 GPH @ 50/80/90, 120V/1PH WITH FILTER	1,11	1/2"	-	2"
EW1H	ELECTRIC WATER HEATER, 50 GAL	FIXT GLASS-LINED TANK, DUAL 4500W, 208V/1PH, NON-SIMULT.	8	3/4"	3/4"	-
FCO	FLOOR CLEANOUT	FIXT C.I. BODY, 6-1/2" TOPS, ADJUSTABLE, SCORIATED, NICKEL BRONZE TOP		-	-	MATCH -
GCO	GRADE CLEANOUT	FIXT C.I. BODY, RECESSED BRONZE PLUG		-	-	MATCH -
WCO	WALL CLEANOUT	FIXT ROUND S/S ACCESS COVER & SCREW, RECESS BRONZE THRD. PLUG		-	-	MATCH -
FD1	FLOOR DRAIN	FIXT FINISHLINE ADJUSTABLE, SCH. 40 HUB CONNECTION, ABS/PVC BASE ADAPTOR, ROUND NICKLE BRONZE STRAINER WITH TRAP PRIMER CONNECTION	7	-	-	MATCH -
CP1	HOT WATER RECIRCULATION PUMP	FIXT IN-LINE WET ROTOR, LEAD FREE BRONZE BODY, 115/160, 25W, BUILT IN THERMAL PROTECTION, 1GPM@5' TDH		-	1/2"	-
HB1	INTERIOR HOSE BIBB	FIXT ROUGH BRASS, VACUUM BREAKER, WHEEL HANDLE, 3/4" HOSE THREAD		3/4"	-	-
WH1	WALL HYDRANT	FIXT CHROME PLATED BRASS, ANTI-SIPHON, VACUUM BREAKER, REMOVABLE TEE HANDLE, 3/4" HOSE THREAD		3/4"	-	-
OB1	ICE MAKER BOX	FIXT ABS HOUSING, 1/4 TURN BALL VALVE, CHROME PLATED BRASS, SHOCK ARRESTORS		1/2"	-	-
DCV	BACKFLOW PREVENTER	FIXT LEAD FREE, DOUBLE CHECK VALVE		MATCH	-	-
NOTES			<ol style="list-style-type: none"> PROVIDE MATCHING CAST IRON AND STEEL FLOOR SUPPORT CARRIER WITH BEARING PLATE AND WALL HANGER. PROVIDE BRASS 1-1/2" TAILPIECE, CAST BRASS SLIP JOINT P-TRAP WITH CLEANOUT; PROVIDE ADA OFFSET ARRANGEMENT WHERE REQUIRED. PROVIDE ADA INSULATION KIT COORDINATE WITH MILLWORK COORDINATE ADA MILLWORK ENCLOSURE FOR WATER AND DRAIN PIPING UNDER SINK. TRIP LEVER OR FLUSH HANDLE TO BE LOCATED ON WIDE SIDE OF STALL OR TOILET ROOM. INSTALL FLUSH TUBE TRAP PRIMER AND CONNECT TO TRAP PRIMER PORT ON DRAIN FIELD ROUTE 1" DRAIN PAN DRAIN PIPING TO CLOSEST INDIRECT DRAIN OR SPILL TO GRADE. PROVIDE 1/2" IPS X 3/8" OD ANGLE BRASS STOP(S) WITH RIGID COPPER RISERS. ALL EXPOSED PIPING SHALL BE CHROME PLATED. PROVIDE IN-LINE CHECK VALVES FOR WATER SUPPLY LINES. PROVIDE 1/2" IPS X 3/8" O.D. BRASS STOP CONCEALED BEHIND CABINET. 			

PLUMBING ABBREVIATIONS	
(X)	EXISTING
ADA	AMERICANS WITH DISABILITIES ACT
BRZ	BRONZE
C.I.	CAST IRON
CO	CLEANOUT
CONC.	CONCRETE
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
EW	ELECTRIC WATER COOLER
EW	ELECTRIC WATER HEATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
GA	GAUGE
GAL	GALLON
GCO	GRADE CLEANOUT
GPF	GALLONS PER FLUSH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
INCL.	INCLUDED
LAV	LAVATORY
MS	MOP SERVICE BASIN
NKL.	NICKEL
NON SIMULT.	NON SIMULTANEOUS
O.F.L.C.	OPEN FRONT LESS COVER
OB	OUTLET BOX
OC	ON CENTER
PRESS. BAL.	PRESSURE BALANCED
RCVY.	RECOVERY
SA	WATER HAMMER ARRESTOR
SH	SHOWER
SK	SINK
SLD.	SLIDE
SS	STAINLESS STEEL
TDH	TOTAL DYNAMIC HEAD
UR	URINAL
V	VENT
VB	VACUUM BREAKER
VC	VITREOUS CHINA
VR	VANDAL RESISTANT
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT

NOTE: ALL ABBREVIATIONS MAY NOT BE USED IN PROJECT.

PLUMBING LEGEND	
-----	DOMESTIC COLD WATER PIPING
-----	DOMESTIC HOT WATER CIRCULATION PIPING
-----	DOMESTIC HOT WATER PIPING
-----	GAS PIPING (NAT. OR LP)
-----	SANITARY VENT PIPING
-----	SANITARY WASTE PIPING
-----	BACKFLOW PREVENTION DEVICE
-----	BALL VALVE
-----	CHECK VALVE
-----	CIRCULATION PUMP
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
GCO	GRADE CLEANOUT
HB	HOSE BIBB
-----	PIPE ELBOW
-----	PIPE ELBOW DOWN
-----	PIPE ELBOW UP
-----	PIPE TEE
-----	PIPE TEE DOWN
-----	DEMOLITION KEYED NOTE TAG
-----	NEW WORK KEYED NOTE
-----	POINT OF CONNECTION - NEW TO EXISTING
WCO	WALL CLEANOUT
-----	WALL CLEANOUT
-----	WALL HYDRANT
-----	WATER HAMMER ARRESTOR

NOTE: ALL ITEMS LISTED IN THIS SCHEDULE MAY NOT BE USED IN PROJECT

PLUMBING LOADS	
WASTE (DRAINAGE FIXTURE UNITS)	35.5
WATER	58 GPM

REVISIONS		
SYM.	DATE	APPROVED

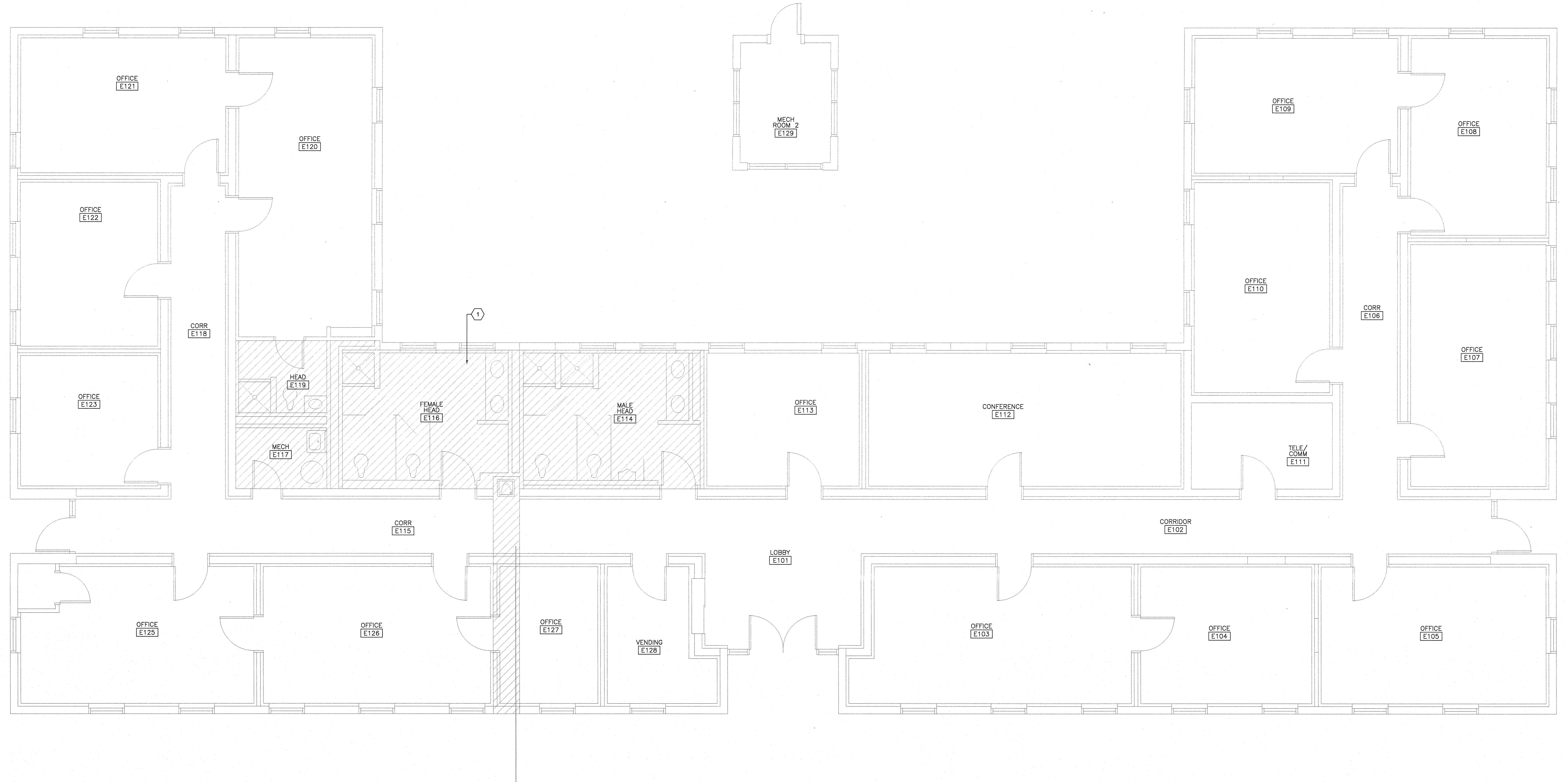
SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

CBHF Engineers, PLLC 2246 Yaupon Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.5266 www.cbhfindesign.com	SHEET TITLE: SCHEDULES, LEGEND ABBREVIATIONS AND LOADS	P-1
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150	DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
DES. JBS DR. JBS CHK. TOG SUBMITTED BY: DESIGN DR. T H BURTON, PE	INT. & EXT. REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA	
APPROVED: [Signature] SEAL 043801 TROY O. GRADY ENGINEER	DATE: [] SIZE: F CODE IDENT. NO.: 80091	NAVFAC DRAWING NO.: 60024533 CONST. CONTR. NO.: N40085-19-B-0025 SPEC.: 05-19-0025
SATISFACTORY TO: []	DATE: []	SHEET 34 OF 59

REVISIONS		
SYM.	DATE	APPROVED

DEMOLITION KEYED NOTES

1 REMOVE ALL PLUMBING FIXTURES INCLUDING WASTE, VENT AND DOMESTIC WATER PIPING AND ALL ACCESSORIES IN ENTIRETY. RECYCLE SCRAP METAL AS PART OF DEMOLITION AND DECONSTRUCTION OPERATIONS.



1 **FIRST FLOOR PLAN**
NOT TO SCALE

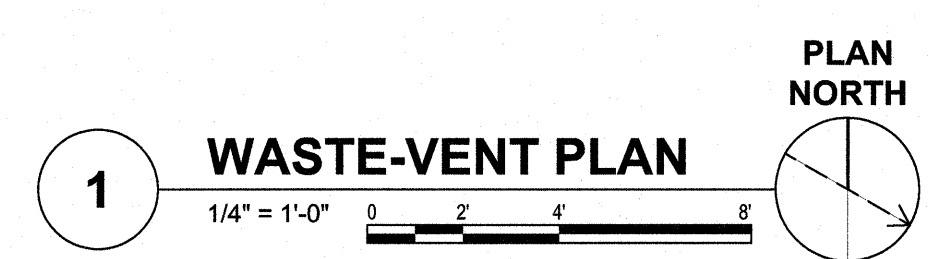
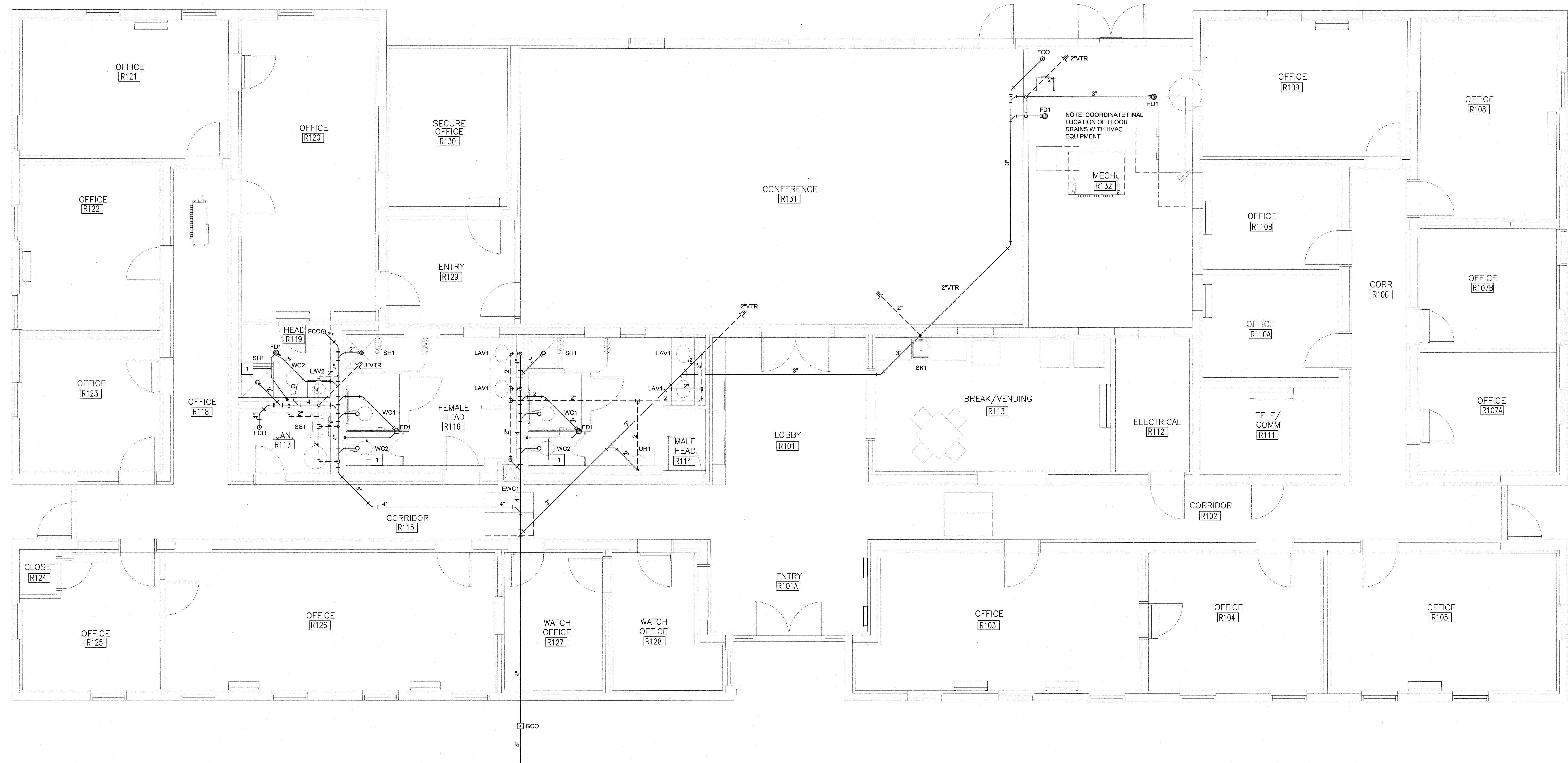
SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

CBHF Engineers, PLLC 2246 Yasupon Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.5266 www.cbhfengineers.com	SHEET TITLE: PLUMBING DEMOLITION FLOOR PLAN		P-2
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150		
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA		INT. & EXT. REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA	
DES. JBS DR. JBS CHK. TOG SUBMITTED BY: DESIGN DR. T H BURTON, PE		APPROVED:	DATE:
APPROVED:		DATE:	SIZE: F
SATISFACTORY TO:		DATE:	CODE IDENT. NO.: 80091 NAVFAC DRAWING NO.: 60024534 CONST. CONTR. NO.: N40085-19-D-0025 SPEC: 05-19-0025
SCALE: NOTED		SHEET 35 OF 59	

CONSTRUCTION KEYED NOTES

1 1/2" TYPE "K" SOFT COPPER UNDER SLAB TO TRAP PRIMER CONNECTION FROM FLUSH VALVE FLUSH TUBE.

REVISIONS		
SYM.	DATE	APPROVED

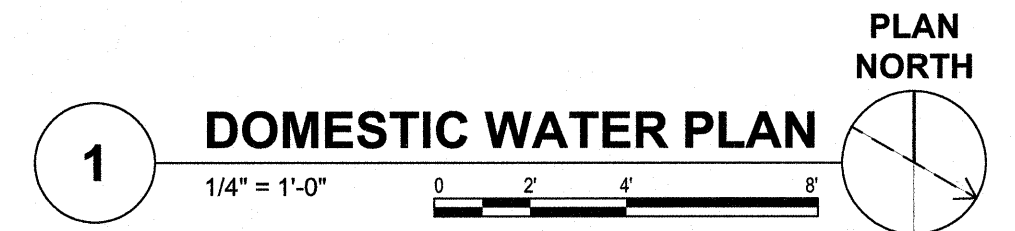
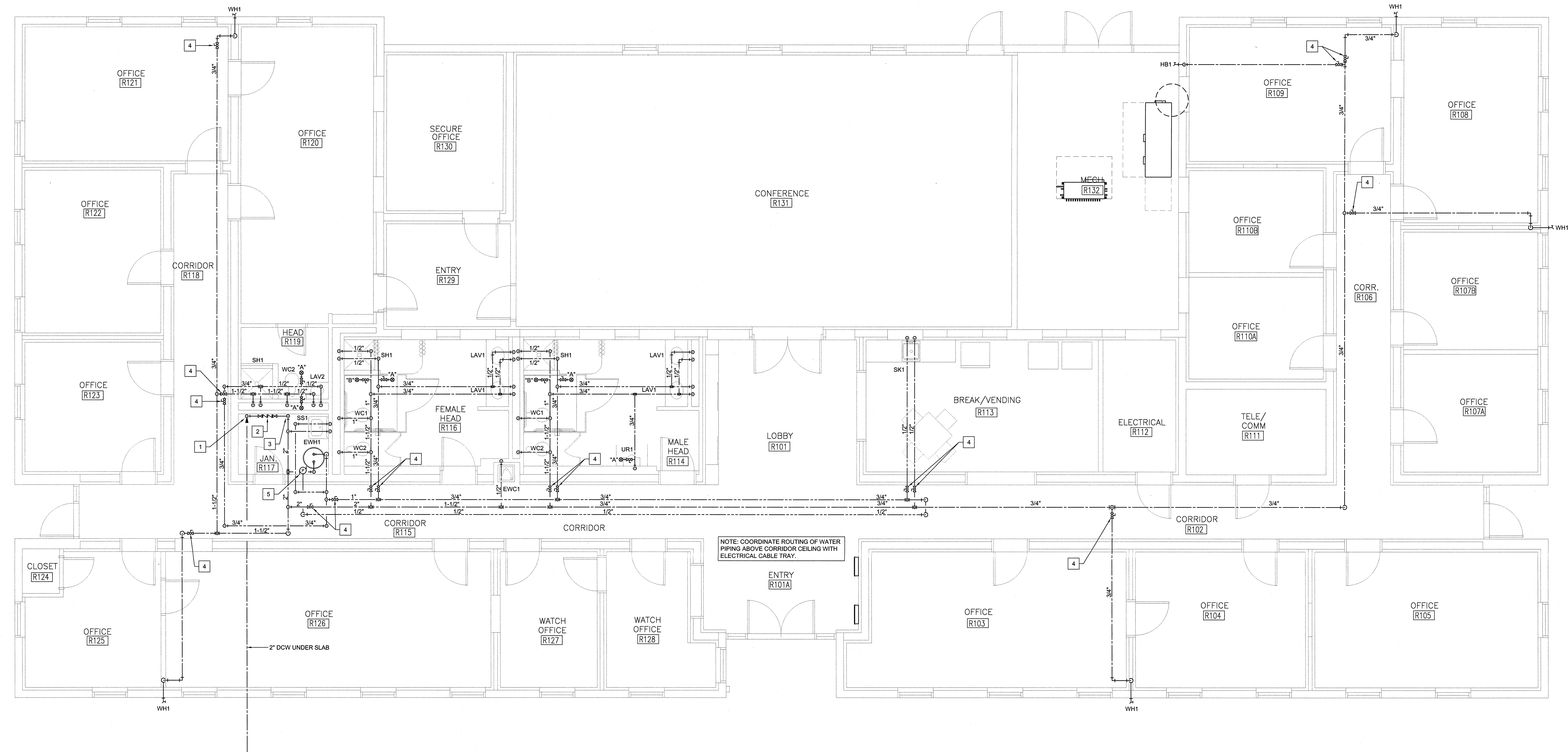


SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

CBHF Engineers, PLLC 2246 Yaupon Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.5266 www.cbhfindesign.com	SHEET TITLE: PLUMBING WASTE-VENT PLAN		P-3
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150		
DES. JBS DR. JBS CHK. TOG SUBMITTED BY: DESIGN DIR. T H BURTON, PE		DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA INT. & EXT. REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA	
APPROVED: 		DATE: 04/29/19	SIZE: F CODE IDENT. NO.: 80091 NAVFAC DRAWING NO.: 60024535 CONST. CONTR. NO.: N40085-19-D-0025
SATISFACTORY TO:		DATE:	SCALE: NOTED SPEC: 05-19-0025 SHEET 36 OF 59

REVISIONS		
SYM.	DATE	APPROVED

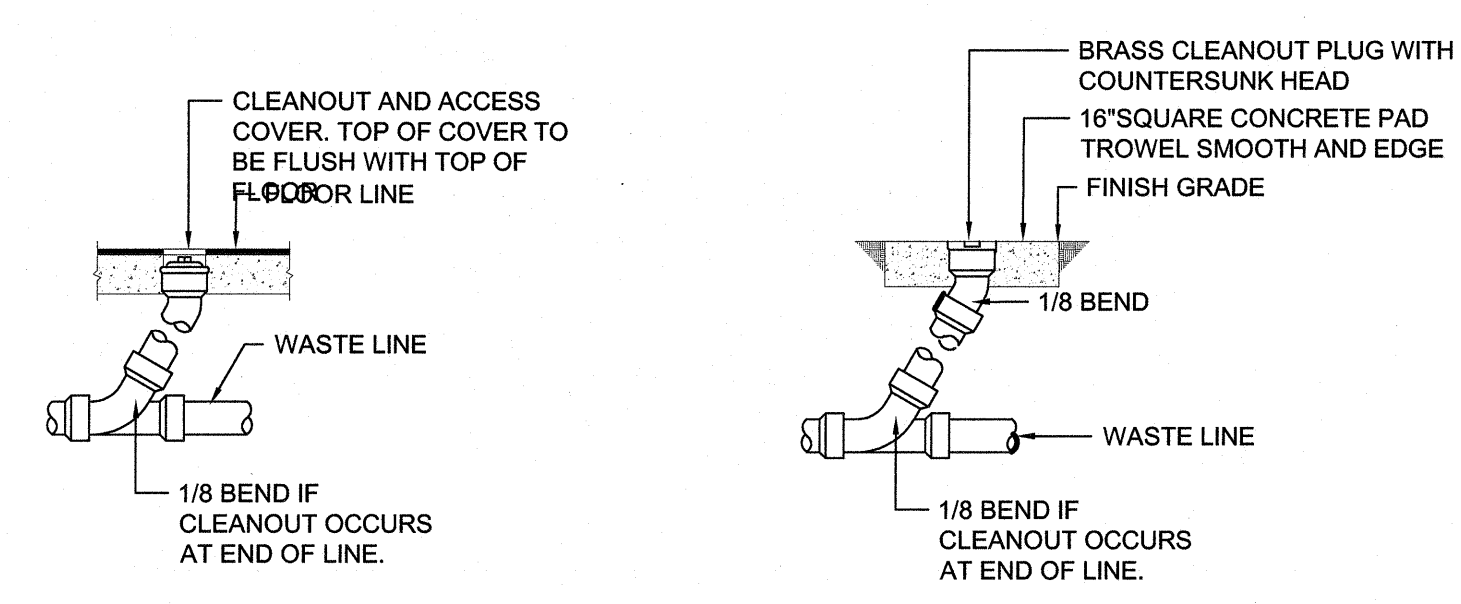
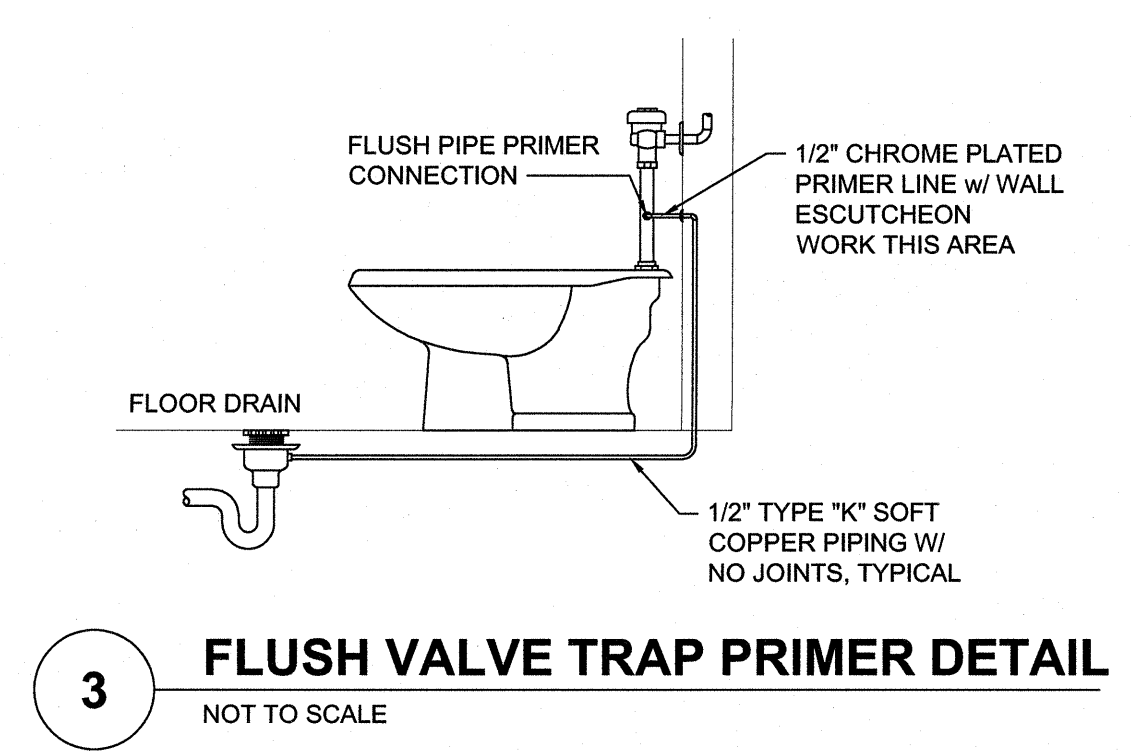
- CONSTRUCTION KEYED NOTES**
- 1 2" DCW UP THRU SLAB. INSTALL MAIN SHUT OFF VALVE IN RISER
 - 2 2" DOUBLE CHECK VALVE
 - 3 2" DCW UP TO ABOVE CEILING
 - 4 INSTALL BRANCH VALVE ABOVE CEILING.
 - 5 CIRCULATION PUMP CP1



SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

CBHF Engineers, PLLC 2246 Yasupon Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.5266 www.cbhfindesign.com	SHEET TITLE: PLUMBING DOMESTIC WATER PLAN		P-4
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150		
	DES. JBS DR. JBS CHK. TOG SUBMITTED BY: DESIGN DIR. T H BURTON, PE		DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
	APPROVED: _____ DATE _____		INT. & EXT. REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA
	SATISFACTORY TO: _____ DATE _____		NAVFAC DRAWING NO. 60024536 CONST. CONTR. NO. N40085-19-D-0025
	SCALE: NOTED		SPEC. 05-19-0025

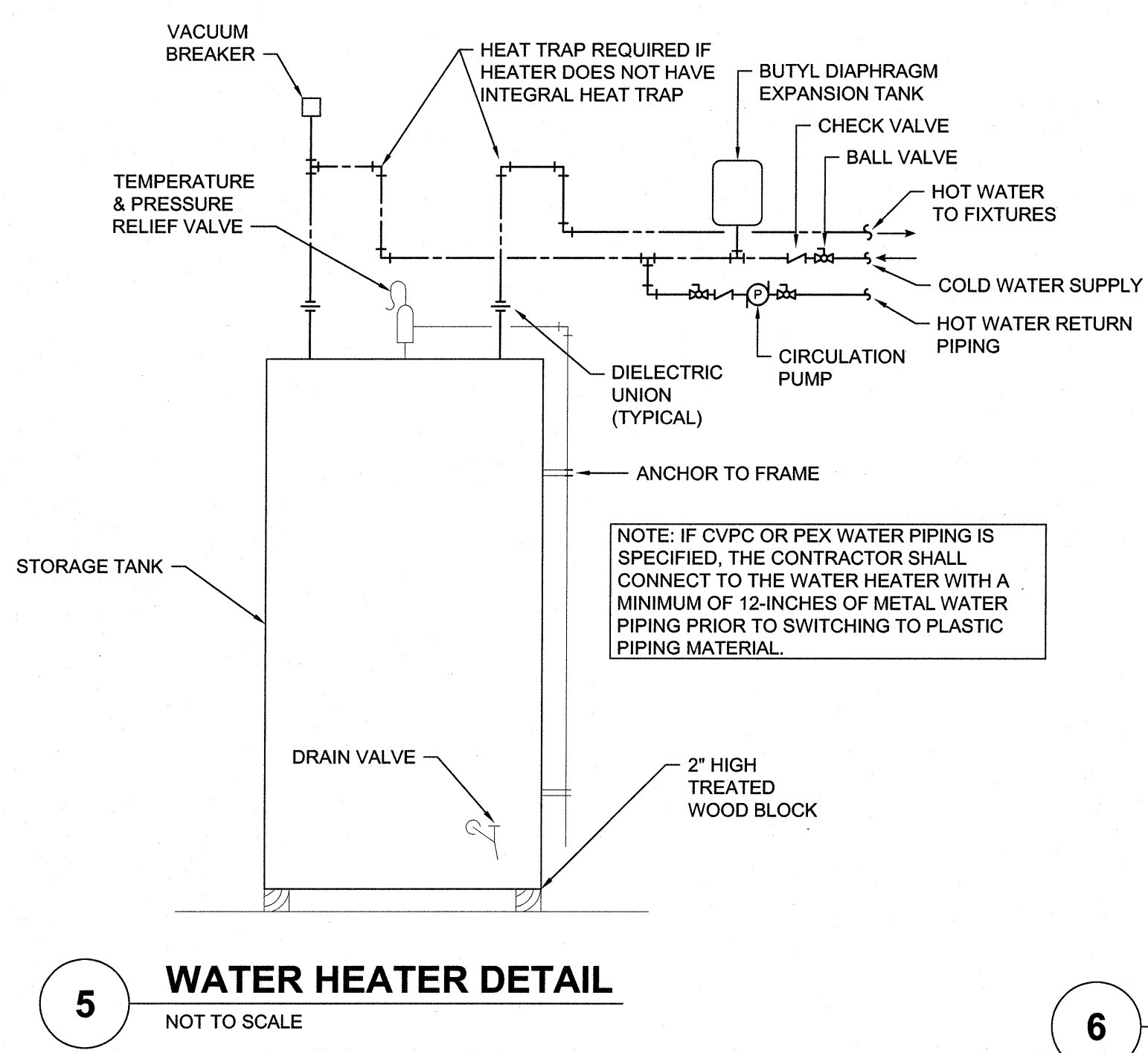
REVISIONS		
SYM.	DATE	APPROVED



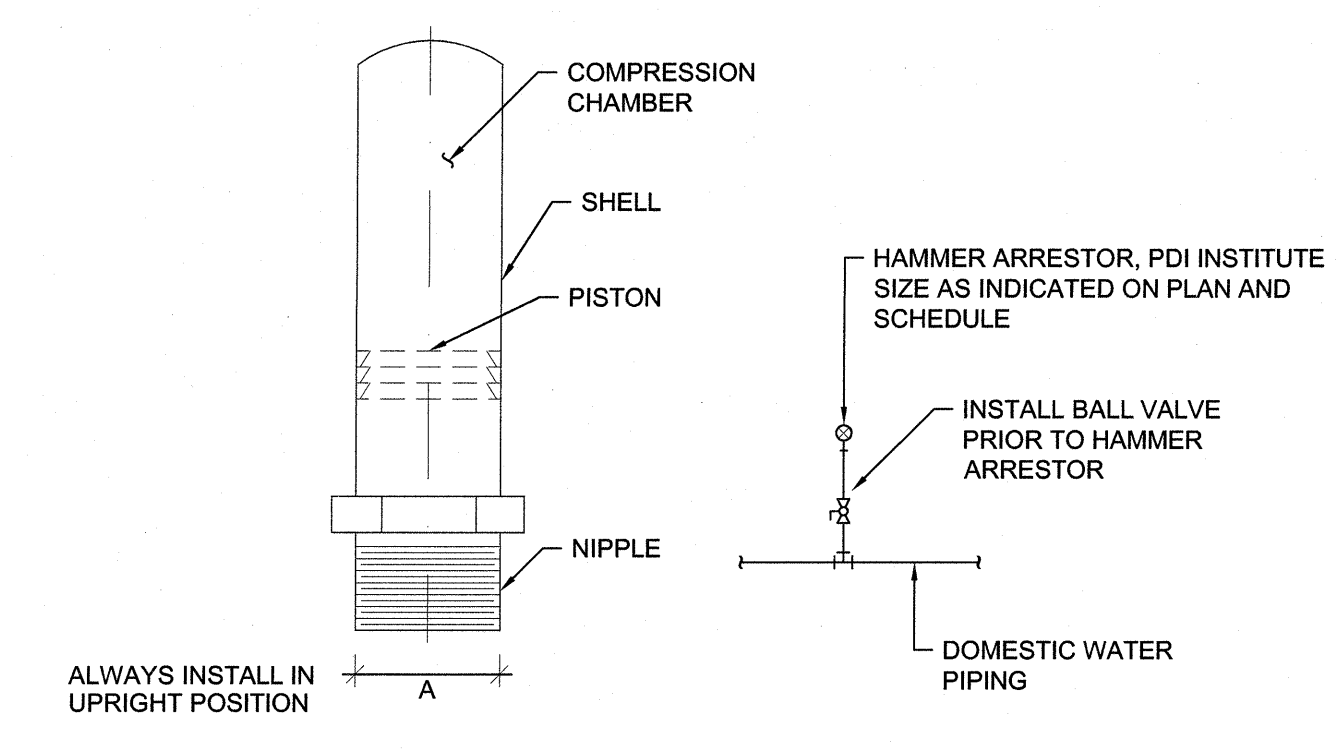
FLOOR CLEANOUT (FCO)

GRADE CLEANOUT (GCO)

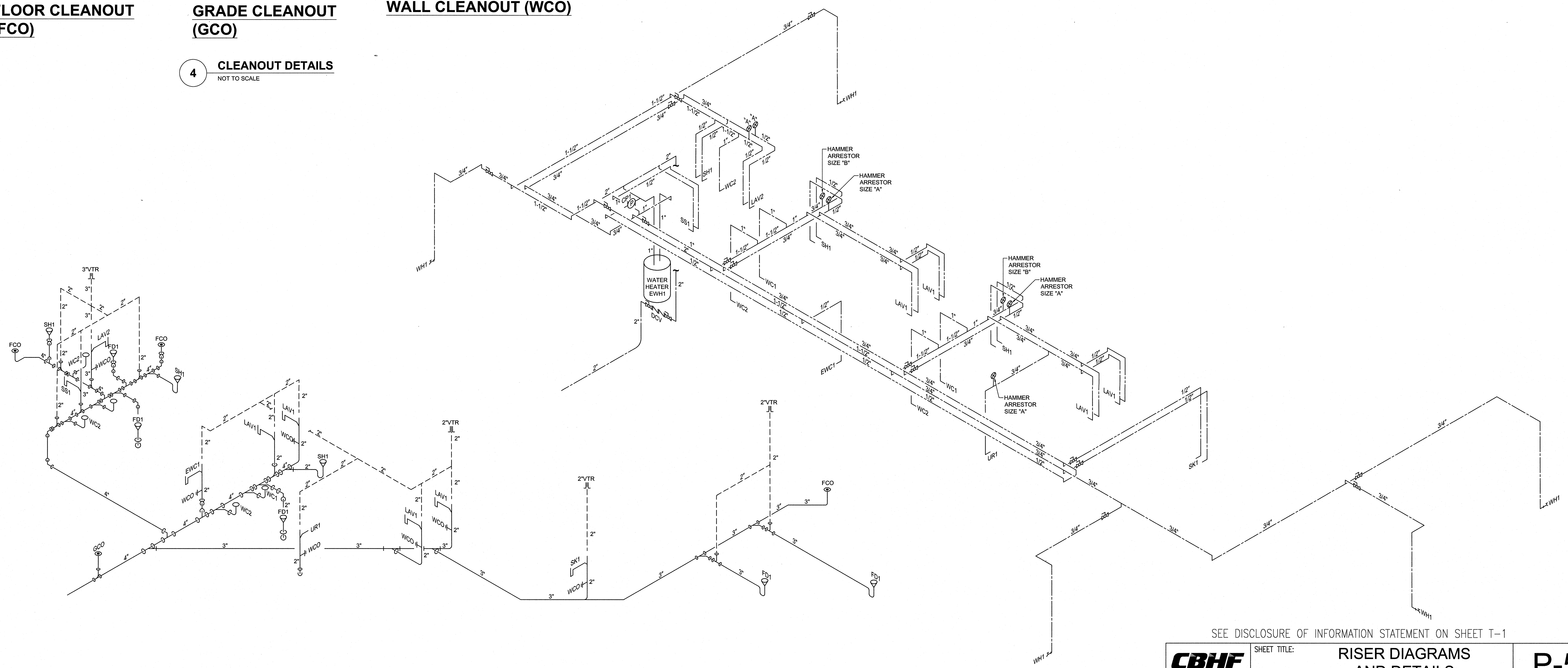
WALL CLEANOUT (WCO)



5 WATER HEATER DETAIL
NOT TO SCALE



6 HAMMER ARRESTOR DETAIL & SCHEDULE
NOT TO SCALE



1 WASTE-VENT RISER DIAGRAM
NOT TO SCALE

2 DOMESTIC WATER RISER DIAGRAM
NOT TO SCALE

SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

CBHF Engineers, PLLC 2246 Yaupon Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.5266 www.cbhfenr.com	SHEET TITLE: RISER DIAGRAMS AND DETAILS		P-5
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 516 SHELBY, NC 28151-0516 409 EAST MARION ST. SHELBY, NC 28150		
DES. JBS DR. JBS CHK. TOG SUBMITTED BY: DESIGN DIR. T H BURTON, PE		DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
APPROVED: [Signature] SEAL: 043601 TROY O. GRADY		INT. & EXT. REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA	
SATISFACTORY TO:		DATE:	SIZE: F CODE IDENT. NO.: 80091 NAVFAC DRAWING NO.: 60024537 CONST. CONTR. NO.: N40085-19-D-0025 SCALE: NOTED SPEC: 05-19-0025

ABBREVIATIONS

Term	Abbreviation
ABOVE FINISHED FLOOR	AFF
ABOVE SEA LEVEL	ASL
ACROSS THE LINE	ACL
AIR CONDITIONING (ING., ED)	AIR COND
AIR HANDLING UNIT	AHU
AMBIENT	AMB
AMERICAN NATIONAL STANDARDS INSTITUTE	ANSI
AMPERE (AMP, AMPS)	AMP
APPARATUS DEW POINT	ADP
APPROXIMATE	APPROX
ATMOSPHERE	ATM
AVERAGE	AVG
BRAKE HORSEPOWER	BHP
BROWN & SHARPE WIRE GAGE	B&S
BRITISH THERMAL UNIT	BTU
BUILDING	BLDG
CELSIUS	°C
CHILLED WATER RETURN	CHWR
CHILLED WATER SUPPLY	CHWS
COEFFICIENT, VALVE FLOW	CV
COMPRESSOR	COMP
CONDENSER, (ING., -ATION)	COND
CONNECTION	CONN
COOLING LOAD	CLG LOAD
CUBIC FEET	CU FT
CUBIC INCH	CU IN
CUBIC FEET PER MINUTE	CFM
CFM, STANDARD CONDITIONS	SCFM
DECIBEL	DB
DEGREE	DEG OR °
DEW-POINT TEMPERATURE	DPT
DIAMETER	DA
DIAMETER, INSIDE	ID
DIAMETER, OUTSIDE	OD
DIFFERENCE OR DELTA	DIFF
DRY-BULB TEMPERATURE	DBT
ENERGY EFFICIENCY RATING	ERR
EFFICIENCY	EFF
ELEVATION	EL
ENTERING	ENT
ENTERING WATER TEMPERATURE	EWTT
ENTERING AIR TEMPERATURE	EAT
EXTERNAL AMBIENT TEMPERATURE	EAT
FACE VELOCITY	FVEL
FAHRENHEIT	°F
FEET PER MINUTE	FFM
FEET PER SECOND	FFS
FOOT OR FEET	FT
GAGE OR GAUGE	GA
GALLONS	GAL
GALLONS PER HOUR	GPH
GALLONS PER MINUTE	GPM
GALLONS PER DAY	OPD
GRAINS	GR
HEAD	HD
HEIGHT	HGT
HIGH-PRESSURE STEAM	HPS
HORSEPOWER	HP
HOURS	HR
HUMIDITY, RELATIVE	RH
INTERGRATED PART LOAD VALUES	IPLV
INCH	IN.
IRON PIPE SIZE	IPS
KILOVOLT-AMP	KVA
KILOWATT	KW
KILOWATT HOUR	KWH
LEAVING AIR TEMPERATURE	LAT
LEAVING WATER TEMPERATURE	LWT
LENGTH	LG
LINEAR FEET	LF
LOW-PRESSURE STEAM	LPS
MAXIMUM	MAX
MEDIUM-PRESSURE STEAM	MPS
MILES PER HOUR	MPH
MINIMUM	MIN.
MINUTE	MIN
MANUFACTURER	MFR
NOISE CRITERIA	NC
NON-STANDARD PART LOAD	NPLV
NORMALLY OPEN	NO
NORMALLY CLOSED	NC
NOT APPLICABLE	N/A
NOT IN CONTACT	N I C
NOT TO SCALE	NTS
NUMBER	NO
ON CENTER	OC
OUNCE	OZ
OUTSIDE AIR	OA
PARTS PER MILLION	PPM
PERCENT	%
POUNDS	LBS
POUNDS PER SQUARE FOOT	PSF
PRESSURE	PRESS
QUANTITY	QTY
RATED LOAD AMPS	RLA
RECIRCULATE	RECIRC
REFRIGERANT (12, 22, ETC.)	R12, R22
RELATIVE HUMIDITY	RH
RETURN AIR	RA
REVOLUTIONS PER MINUTE	RPM
REVOLUTIONS PER SECOND	RPS
SAFETY FACTOR	SF
SECOND	S
SHADING COEFFICIENT	SC
SPECIFICATION	SPEC
SQUARE	SQ
STANDARD	STD
STATIC PRESSURE	SP
SUPPLY	SPLY
SUPPLY AIR	SA
TEMPERATURE	TEMP
TEMPERATURE DIFFERENCE	TD
THERMOSTAT	T STAT
TONS OF REFRIGERATION	TONS
TO BE DETERMINED	TBD
TOTAL DYNAMIC HEAD	TDH
U-FACTOR	U
VARIABLE AIR VOLUME	VAV
VELOCITY	VEL
VENTILATION, VENT	VENT
VERTICAL	VERT
VOLT	V
VOLT AMPERE	VA
VOLUME	VOL
WATER PRESSURE DROP	WPD
WATT	W
WATT-HOUR	WH
WEIGHT	WT
WET BULB	WB
YARD	YD
YEAR	YR

NOTE: ALL ABBREVIATIONS MAY NOT BE USED IN PROJECT.

MECHANICAL LEGEND

ACCU#	AIR COOLED CONDENSING UNIT NUMBER
AHU#	AIR HANDING UNIT NUMBER
BCC#	BRANCH CIRCUIT CONTROLLER NUMBER
DAHU#	DUCTLESS AIR HANDLING UNIT NUMBER
DHP#	DUCTLESS HEAT PUMP UNIT NUMBER
DOAS#	DEDICATED OUTSIDE AIR SYSTEM UNIT NUMBER
EP#	EXHAUST GRILLE NUMBER
EBH#	ELECTRIC BASEBOARD HEATER UNIT NUMBER
EF#	EXHAUST FAN NUMBER
ELUH#	ELECTRIC UNIT HEATER NUMBER
HP#	HEAT PUMP UNIT NUMBER
L#	LOUVER NUMBER
PV#	POWER VENTILATOR NUMBER
R#	RETURN GRILLE NUMBER
RH#	ROOF HOOD NUMBER
S#	SUPPLY DIFFUSER NUMBER
— C —	CONDENSATE PIPING
— R —	REFRIGERANT PIPING
⊥	VOLUME DAMPER
⊕	THERMOSTAT
⊞	EXTENT OF DEMOLITION
⊞	CONNECTION POINT - NEW TO EXISTING

MECHANICAL DEMOLITION NOTES

1. THE MECHANICAL CONTRACTOR SHALL REVIEW THE DRAWINGS AND SPECIFICATIONS FOR DEMOLITION REQUIREMENTS AND LAYOUT HIS WORK IN A COMPATIBLE AND COMPLEMENTARY MANNER. REMOVE ALL EQUIPMENT, DUCTWORK, SUPPORTS, CONTROLS, ACCESSORIES, ETC., AND MECHANICAL ITEMS MADE OBSOLETE BY THESE ALTERATIONS AS SHOWN IN THE MECHANICAL DRAWINGS. ALL ITEMS TO BE REMOVED OR MODIFIED MAY NOT BE SHOWN, HOWEVER, THIS CONTRACTOR SHALL REMOVE ANY MECHANICAL WORK AS REQUIRED BY THE CONSTRUCTION.
2. PREPARE A DEMOLITION PLAN AND SUBMIT PROPOSED DEMOLITION, AND REMOVAL PROCEDURES FOR APPROVAL BEFORE WORK IS STARTED. PLAN SHALL BE APPROVED BY CONTRACTING OFFICER PRIOR TO WORK BEGINNING. DO NOT BEGIN DEMOLITION UNTIL AUTHORIZATION IS RECEIVED FROM THE CONTRACTING OFFICER.
3. BEFORE BEGINNING ANY DEMOLITION WORK, SURVEY THE SITE AND EXAMINE THE DRAWINGS AND SPECIFICATIONS TO DETERMINE THE EXTENT OF THE WORK. RECORD EXISTING CONDITIONS IN THE PRESENCE OF THE CONTRACTING OFFICER SHOWING THE CONDITION OF STRUCTURES AND OTHER FACILITIES ADJACENT TO AREAS OF ALTERATION OR REMOVAL. PHOTOGRAPHS SIZED 4 INCH WILL BE ACCEPTABLE AS A RECORD OF EXISTING CONDITIONS. INCLUDE IN THE RECORD THE ELEVATION OF THE TOP OF FOUNDATION WALLS, FINISH FLOOR ELEVATIONS, POSSIBLE CONFLICTING ELECTRICAL, CONDUITS, PLUMBING LINES, ALARMS SYSTEMS, THE LOCATION AND EXTENT OF EXISTING CRACKS AND OTHER DAMAGE AND DESCRIPTION OF SURFACE CONDITIONS THAT EXIST PRIOR TO BEFORE STARTING WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND DOCUMENT ALL REQUIRED OUTAGES WHICH WILL BE REQUIRED DURING THE COURSE OF WORK, AND TO NOTE THESE OUTAGES ON THE RECORD DOCUMENT. SUBMIT SURVEY RESULTS.
4. EXCEPT FOR SALVAGED ITEMS, AND FOR MATERIALS OR EQUIPMENT SCHEDULED FOR SALVAGE, ALL MATERIALS AND EQUIPMENT REMOVED AND NOT REUSED OR SALVAGED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM GOVERNMENT PROPERTY. TITLE TO MATERIALS RESULTING FROM DEMOLITION AND DECONSTRUCTION, AND MATERIALS AND EQUIPMENT TO BE REMOVED, IS VESTED IN THE CONTRACTOR UPON APPROVAL BY THE CONTRACTING OFFICER OF THE CONTRACTOR'S DEMOLITION, DECONSTRUCTION, AND REMOVAL PROCEDURES, AND AUTHORIZATION BY THE CONTRACTING OFFICER TO BEGIN DEMOLITION AND DECONSTRUCTION. THE GOVERNMENT WILL NOT BE RESPONSIBLE FOR THE CONDITION OR LOSS OF, OR DAMAGE TO, SUCH PROPERTY AFTER CONTRACT AWARD, SHOWING FOR SALE OR SELLING MATERIALS AND EQUIPMENT ON SITE IS PROHIBITED.
5. THESE DRAWINGS ARE COMPILED BY THE ENGINEER FROM THE OWNER'S RECORD DRAWINGS AND LIMITED FIELD VERIFICATION OF EXISTING CONDITIONS FOR THE PURPOSE OF INDICATING THE WORK REQUIRED AND ARE BELIEVED TO BE CORRECT. NOTWITHSTANDING, THE CONTRACTOR SHALL VERIFY ALL DUCTWORK, EQUIPMENT LOCATIONS, DIMENSIONS AND ALL FIELD CONDITIONS AFFECTING HIS WORK.
6. WHERE MECHANICAL SYSTEMS PASS THROUGH THE DEMOLITION AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL REMAIN OR BE SUITABLY RELOCATED AND THE SYSTEM RESTORED TO NORMAL OPERATION. ADVISE THE CONTRACTING OFFICER IMMEDIATELY IF SUCH CONDITIONS ARE UNCOVERED BEFORE PROCEEDING WITH ADDITIONAL WORK.
7. DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY THE CONTRACTING OFFICER. DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED AND USED BY THE GOVERNMENT EXCEPT WHEN APPROVED IN WRITING AND THEN ONLY AFTER TEMPORARY UTILITY SERVICES HAVE BEEN APPROVED AND PROVIDED. DO NOT BEGIN DEMOLITION OR DECONSTRUCTION WORK UNTIL ALL UTILITY DISCONNECTIONS HAVE BEEN MADE. SHUT OFF AND CAP UTILITIES FOR FUTURE USE, AS INDICATED. TEMPORARY SERVICES INCLUDING BUILDING HEAT AND HEATING OF DOMESTIC WATER SHALL BE REQUIRED WHEN ANY INTERRUPTION OF SUCH SERVICES EXCEEDS 12 HOURS EXCEPT WHEN AUTHORIZED IN WRITING BY THE CONTRACTOR OFFICER.

MECHANICAL GENERAL NOTES

1. SCOPE OF WORK: THESE DRAWINGS AND ACCOMPANYING SPECIFICATIONS DESCRIBE THE SCOPE OF WORK REQUIRED FOR PROJECT MECHANICAL HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS. CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIAL REQUIRED FOR COMPLETE, FULLY FUNCTIONING MECHANICAL SYSTEMS COMPLYING WITH THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.
2. DRAWINGS: DRAWINGS ARE DIAGRAMMATIC AND MAY NOT COMPLETELY DESCRIBE EVERY DETAIL OF THE INSTALLATION. HOWEVER, CONTRACTOR IS RESPONSIBLE FOR FURNISHING COMPLETE SYSTEMS INCLUDING ALL REQUIRED EQUIPMENT AND ACCESSORIES TO OBTAIN FULLY FUNCTIONING HVAC SYSTEMS.
3. MANUFACTURER'S RECOMMENDATIONS - INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4. WORKMANSHIP - UTILIZE SKILLED MECHANICS TO OBTAIN A HIGH QUALITY PROFESSIONAL FINISH INSTALLATION WHEN COMPLETED. WORK OF UNACCEPTABLE QUALITY SHALL BE REMOVED AND REWORKED AT NO ADDITIONAL COST. CONTRACTING OFFICER SHALL BE THE JUDGE OF WORKMANSHIP AND THEIR OPINION WILL BE FINAL. IN ADDITION, ANY EXISTING CONSTRUCTION DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE CONTRACTING OFFICER BY THE CONTRACTOR AT NO ADDITIONAL COST.
5. SUPERVISION: PROVIDE SKILLED SUPERINTENDENTS TO SUPERVISE THE WORK FROM THE BEGINNING TO COMPLETION AND FINAL INSPECTION.
6. PROGRESS OF WORK: PERFORM WORK IN ACCORDANCE WITH SCHEDULE AND REQUIREMENTS OF THE OWNER UNDER NO CIRCUMSTANCES SHALL THIS CONTRACTOR DELAY THE OVERALL PROJECT SCHEDULE.
7. COORDINATION: COORDINATE MECHANICAL WORK WITH THE WORK OF OTHER TRADES. LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE UNLESS SPECIFICALLY DIMENSIONED. LAYOUT MECHANICAL WORK SO AS NOT TO INTERFERE WITH THE WORK OF OTHER TRADES. VERIFY ACTUAL BUILDING STRUCTURE PRIOR TO DUCT FABRICATION AND ADJUST ARRANGEMENT AS REQUIRED. INCLUDE ALL OFFSETS IN DUCTS, FITTINGS, PIPING, ETC. AS REQUIRED TO PROPERLY INSTALL EQUIPMENT.
8. EQUIPMENT LOCATIONS: DETERMINE EXACT EQUIPMENT AND MATERIALS LOCATIONS TO PROVIDE BEST ARRANGEMENT AND TO FACILITATE PROPER MAINTENANCE AND SERVICING OF EQUIPMENT.
9. LISTING AND LABELING: ALL EQUIPMENT SHALL BE LABELED OR LISTED BY UL OR OTHER APPROVED TESTING AGENCY WHERE REQUIRED.
10. CLEANUP: REMOVE ALL DEBRIS GENERATED IN THE ACCOMPLISHMENT OF WORK UNDER THIS PROJECT. CLEAN, REPLACE OR REPAIR ALL SURFACES SOILED OR DAMAGED DURING THE COURSE OF THE WORK. REMOVE DEBRIS DAILY SO TO MAINTAIN SAFE WORKING CONDITIONS.
11. DEMOLISH EXISTING EQUIPMENT PADS AS REQUIRED TO ACCOMMODATE NEW EQUIPMENT LAYOUT.

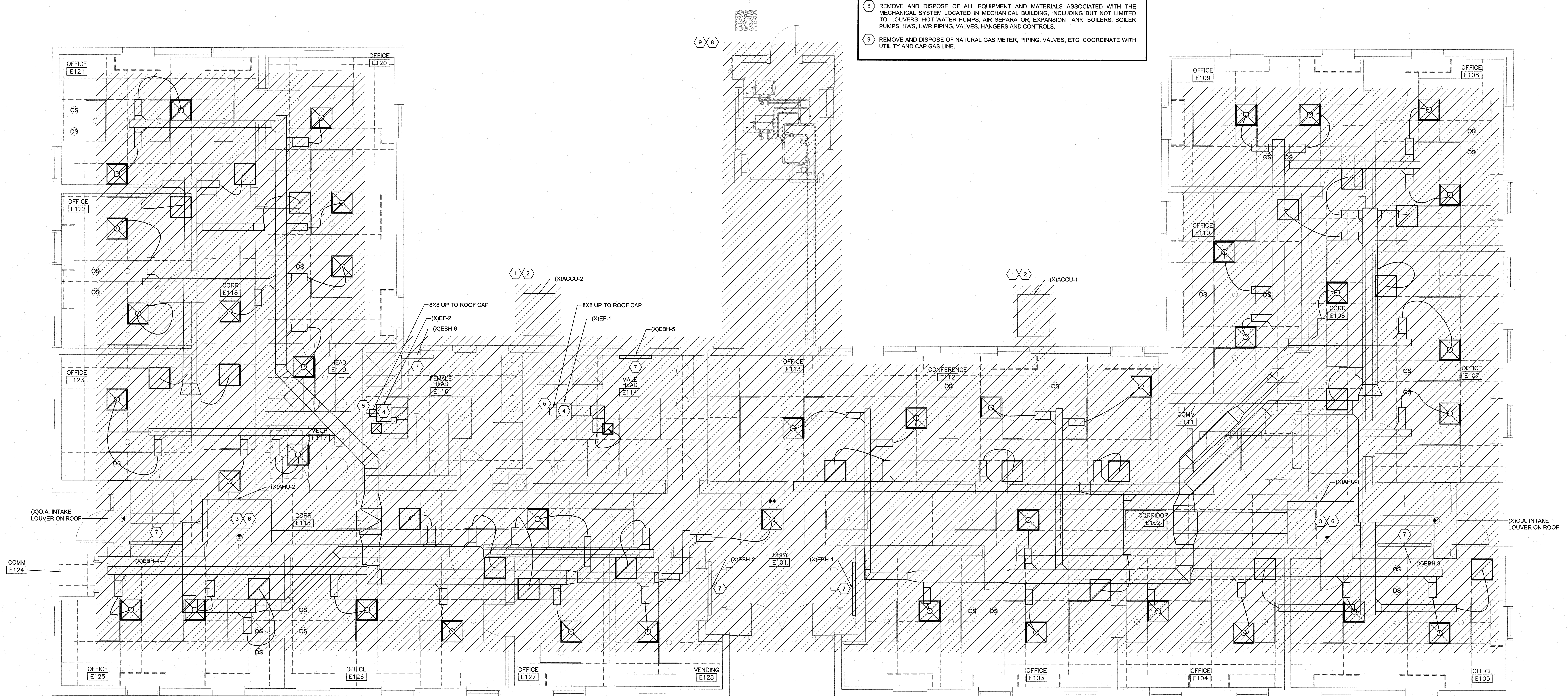
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SYM.	DATE	APPROVED

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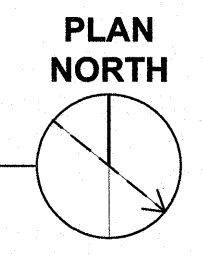
	SHEET TITLE: MECHANICAL NOTES ABBREVIATIONS AND LEGEND		M-1
	2246 Youpoon Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.5266 www.cbhfengineers.com		
TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150 www.tallysmith.com		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
DES. CRG DR. CRG CHK. TOG SUBMITTED BY:		INT. & EXT. REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA	
DESIGN DIR. T H BURTON, PE		NAVFAC DRAWING NO. 60024538	
APPROVED:		DATE:	CODE IDENT. NO.: 80091
SATISFACTORY TO:		DATE:	CONST. CONTR. NO. N40085-19-D-0025
SCALE: NOTED		SPEC: 05-19-0025	SHEET 39 OF 59

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- DEMOLITION KEYED NOTES**
- REMOVE AND DISPOSE OF THE HVAC SYSTEM IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, EQUIPMENT, DUCTWORK, INSULATION, FLEXIBLE DUCTWORK, AIR DISTRIBUTION, HANGERS, SUPPORTS AND CONTROLS.
 - REMOVE AND DISPOSE OF ALL CONDENSING UNITS, REFRIGERANT PIPING, CONTROLS AND ASSOCIATED CONCRETE PAD.
 - REMOVE AND DISPOSE OF ALL AIR HANDLING UNITS, INCLUDING BUT NOT LIMITED TO, REFRIGERANT PIPING, CONDENSATE PIPING AND CONTROLS, DEMOLISH SUPPLY, RETURN, OUTSIDE AIR DUCTS, LOUVERS, SUPPLY DIFFUSERS AND RETURN GRILLES.
 - REMOVE AND DISPOSE OF ALL EXISTING EXHAUST FANS, DUCTWORK, HANGERS, INSULATION, CONTROLS, ETC.
 - REMOVE AND DISPOSE OF ALL EXISTING ROOF VENTILATORS, DUCTWORK, HANGERS, INSULATION, CONTROLS, ETC.
 - REMOVE AND DISPOSE OF ALL EXISTING THERMOSTAT CONTROLS.
 - REMOVE AND DISPOSE OF ALL ELECTRIC BASEBOARD HEATERS.
 - REMOVE AND DISPOSE OF ALL EQUIPMENT AND MATERIALS ASSOCIATED WITH THE MECHANICAL SYSTEM LOCATED IN MECHANICAL BUILDING, INCLUDING BUT NOT LIMITED TO, LOUVERS, HOT WATER PUMPS, AIR SEPARATOR, EXPANSION TANK, BOILERS, BOILER PUMPS, HYD. HWYR PIPING, VALVES, HANGERS AND CONTROLS.
 - REMOVE AND DISPOSE OF NATURAL GAS METER, PIPING, VALVES, ETC. COORDINATE WITH UTILITY AND CAP-GAS LINE.



1 HVAC DEMOLITION PLAN
NOT TO SCALE

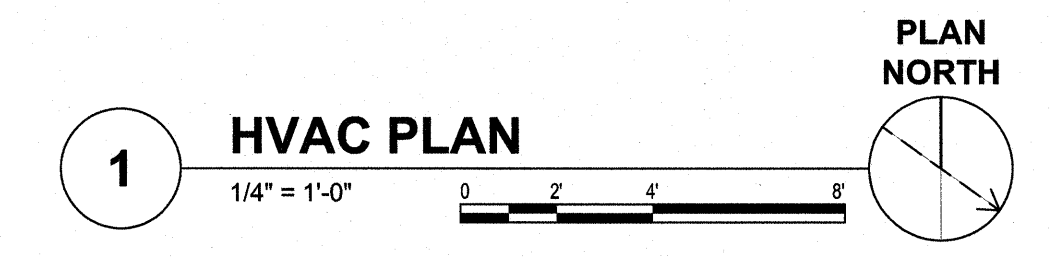
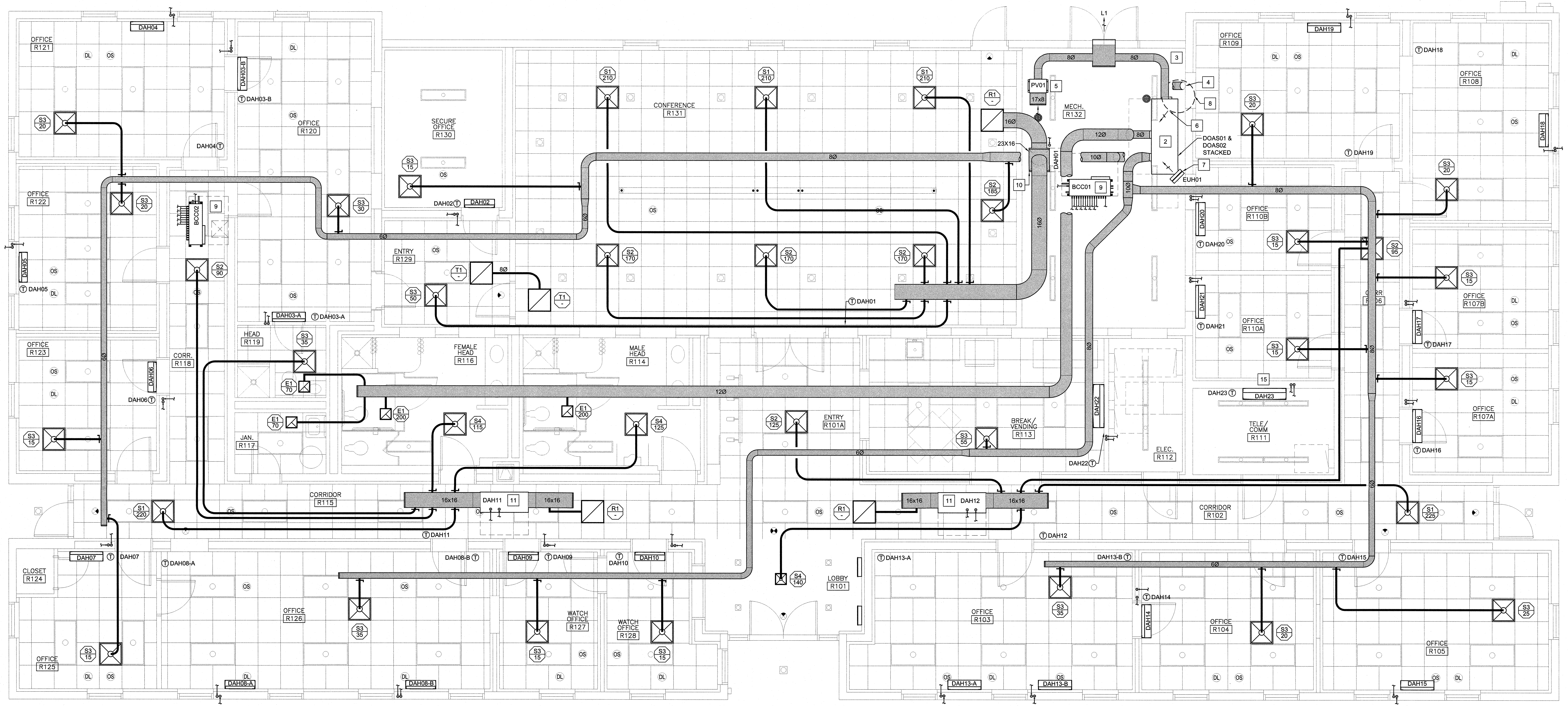
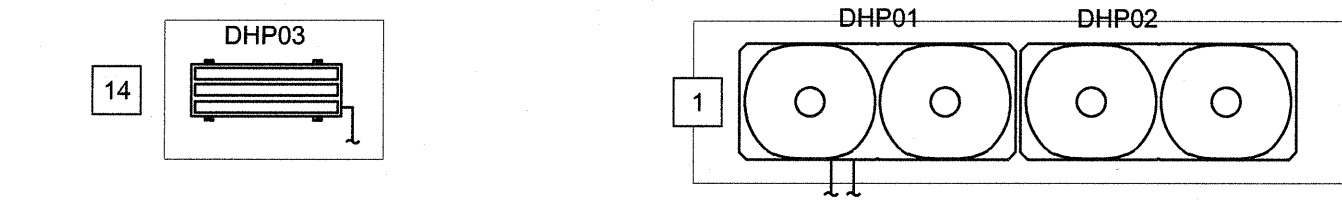


SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

CBHF Engineers, PLLC 2246 Yaupon Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.3286 www.cbhfengineers.com	SHEET TITLE: MECHANICAL HVAC DEMOLITION PLAN		M-2
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150		
	DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA		INT. & EXT. REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA
	DES. CRG DR. CRG CHK. TOG SUBMITTED BY: DESIGN DR. T H BURTON, PE		
APPROVED:		DATE:	SIZE: F CODE IDENT. NO.: 80091 NAVFAC DRAWING NO.: 60024539 CONST. CONTR. NO.: N40085-19-D-0025 SCALE: NOTED SPEC: 05-19-0025 SHEET 40 OF 59

REVISIONS		
SYM.	DATE	APPROVED

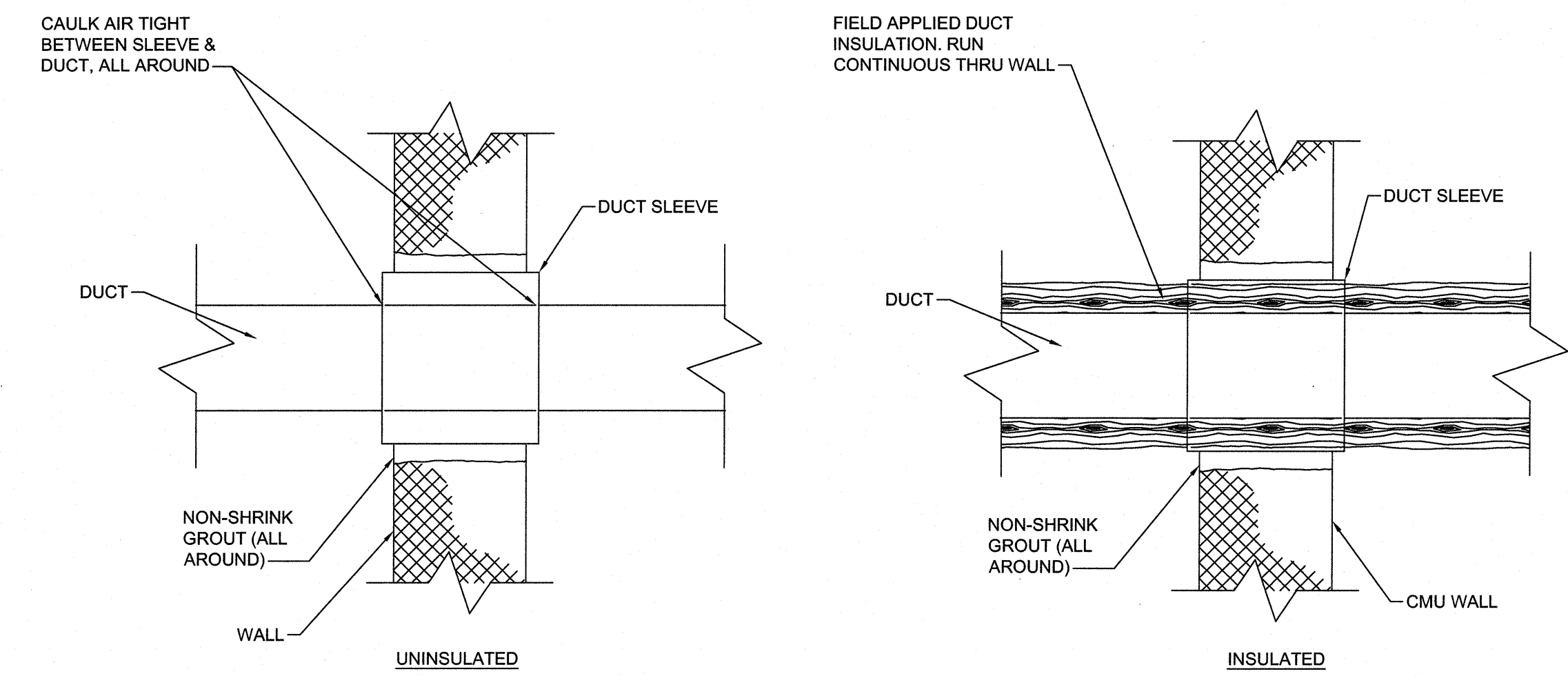
- CONSTRUCTION KEYED NOTES**
- 1 INSTALL OUTDOOR UNIT ON CONCRETE PAD. ROUTE REFRIGERANT PIPING INTO MECHANICAL ROOM TO BRANCH CIRCUIT CONTROLLER BCC01. TWIN DHP01 & DHP02 TOGETHER.
 - 2 INSTALL DEDICATED OUTDOOR AIR UNITS DOAS01 & DOAS02 ON CONCRETE PAD. STACK DOAS02 ABOVE DOAS01 WHILE MAINTAINING STRUCTURAL INTEGRITY OF EQUIPMENT.
 - 3 ROUTE EXHAUST AIR DUCTWORK FROM DOAS01 & DOAS02 TO LOUVER L1 INSTALLED IN EXTERIOR WALL.
 - 4 ROUTE OUTSIDE AIR DUCTWORK FROM DOAS01 & DOAS02 UNDER TO ROOF HOOD ON ROOF OVER MECHANICAL ROOM.
 - 5 SUSPEND INLINE POWER VENTILATOR PV01 FROM STRUCTURE ABOVE. ROUTE EXHAUST DUCT WORK TO EXHAUST LOUVER L1 INSTALLED IN EXTERIOR WALL. INSTALL 3 FT OF INTAKE DUCTWORK WITH BIRD SCREEN OVER OPENING.
 - 6 INSTALL MOTORIZED DAMPER, INTERLOCKED WITH PV01 IN ROOF HOOD RH01 PLENUM.
 - 7 SUSPEND ELECTRIC UNIT HEATER EUH01 FROM STRUCTURE ABOVE WHILE MAINTAINING MANUFACTURER RECOMMENDED CLEARANCES.
 - 8 INSTALL ROOF HOOD RH01 ON ROOF WITH PLENUM BELOW.
 - 9 SUSPEND BRANCH CONTROLLER FROM STRUCTURE ABOVE WHILE MAINTAINING MANUFACTURER RECOMMENDED CLEARANCES. ROUTE REFRIGERANT PIPING TO ASSOCIATED AIR HANDLING UNITS. ROUTE CONDENSATE PIPING TO EXTERIOR OF BUILDING AND SPILL TO GRADE.
 - 10 INSTALL DAH01 ON CONCRETE PAD. ROUTE REFRIGERANT PIPING TO BRANCH CIRCUIT CONTROLLER. ROUTE CONDENSATE PIPING TO EXTERIOR OF BUILDING AND SPILL TO GRADE.
 - 11 SUSPEND AIR HANDLER FROM STRUCTURE ABOVE WHILE MAINTAINING MANUFACTURER RECOMMENDED CLEARANCES. ROUTE REFRIGERANT PIPING TO BRANCH CIRCUIT CONTROLLER BCC01. ROUTE CONDENSATE PIPING TO EXTERIOR OF BUILDING AND SPILL TO GRADE.
 - 12 INSTALL AIR HANDLER HIGH ON WALL WHILE MAINTAINING MANUFACTURER RECOMMENDED CLEARANCES. ROUTE REFRIGERANT PIPING TO BRANCH CIRCUIT CONTROLLER BCC01. ROUTE CONDENSATE PIPING TO EXTERIOR OF BUILDING AND SPILL TO GRADE.
 - 13 INSTALL AIR HANDLER HIGH ON WALL WHILE MAINTAINING MANUFACTURER RECOMMENDED CLEARANCES. ROUTE REFRIGERANT PIPING TO BRANCH CIRCUIT CONTROLLER BCC02. ROUTE CONDENSATE PIPING TO EXTERIOR OF BUILDING AND SPILL TO GRADE.
 - 14 INSTALL OUTDOOR MINI-SPLIT UNIT ON CONCRETE PAD IN THE GENERAL LOCATION SHOWN ON PLANS WHILE MAINTAINING MANUFACTURER RECOMMENDED CLEARANCES. ROUTE REFRIGERANT PIPING TO ASSOCIATIVE INDOOR UNIT.
 - 15 INSTALL INDOOR MINI-SPLIT UNIT HIGH ON WALL WHILE MAINTAINING MANUFACTURER RECOMMENDED CLEARANCES. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. ROUTE CONDENSATE PIPING TO EXTERIOR OF BUILDING AND SPILL TO GRADE.



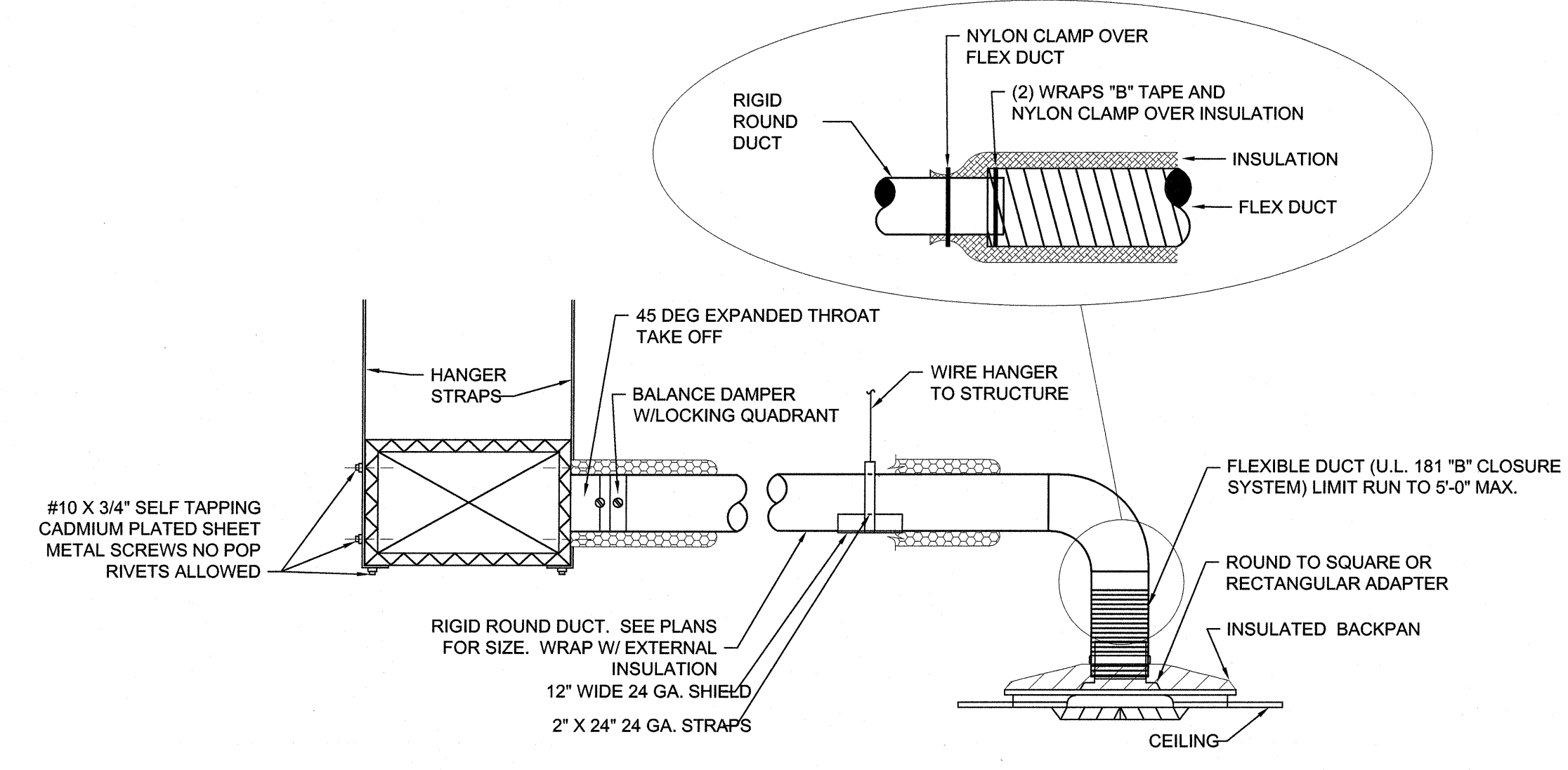
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CBHF Engineers, PLLC 2248 Yaupon Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.3266 www.cbhfindesign.com	SHEET TITLE: MECHANICAL HVAC PLAN	M-3
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
DES. CRG DR. CRG CHK. TOG SUBMITTED BY: DESIGN DR. T H BURTON, PE	INT. & EXT. REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA	
APPROVED: SEAL 043501 TROY O. GRADY ENGINEER	DATE: 8/24/19 SATISFACTORY TO:	DATE: 8/24/19 SIZE: F CODE IDENT. NO.: 80091 NAVFAC DRAWING NO.: 60024540 CONST. CONTR. NO.: N40085-19-D-0025 SPEC.: 05-19-0025 SHEET 41 OF 59

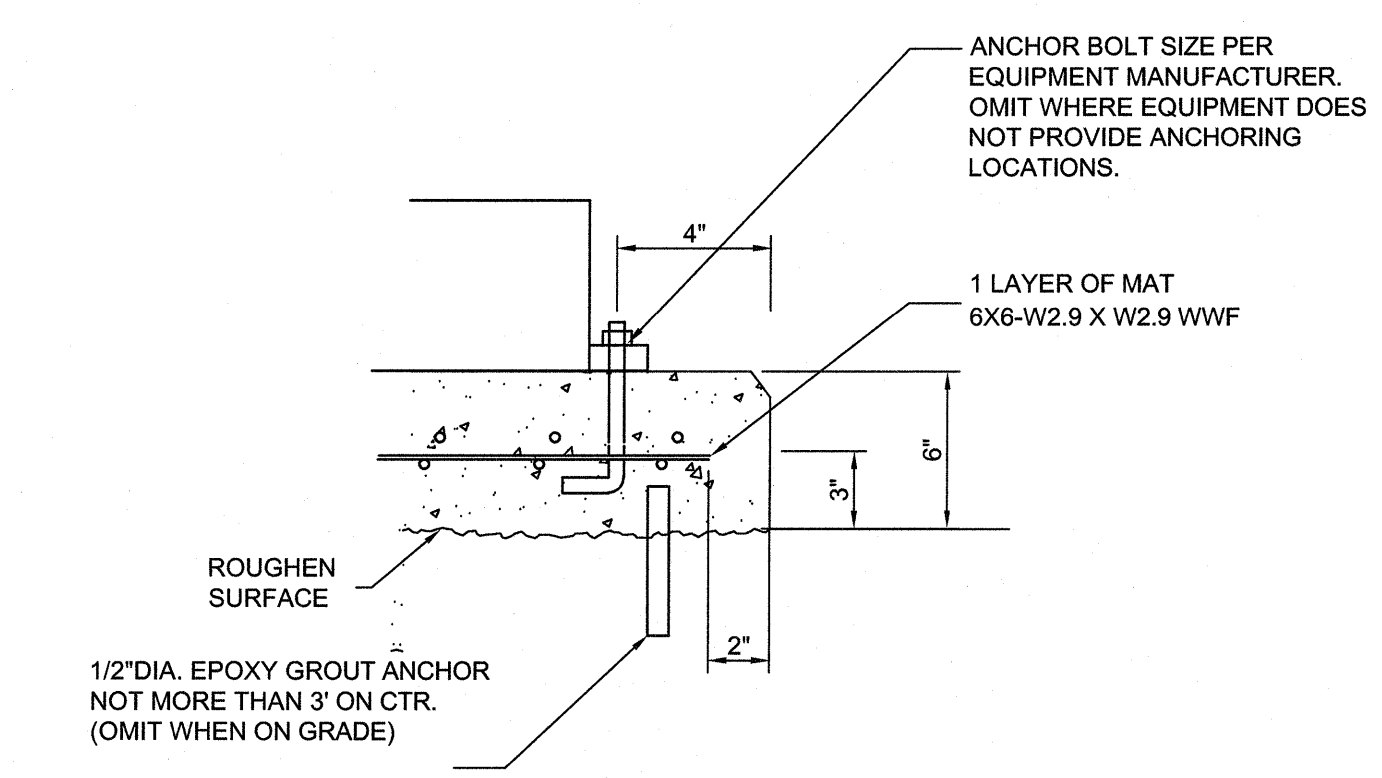
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SYM.	DATE	APPROVED



1 DUCT PENETRATION DETAIL (TYPICAL)
NOT TO SCALE



2 DIFFUSER CONNECTION DETAIL
NOT TO SCALE



3 CONCRETE PAD DETAIL - INTERIOR
NOT TO SCALE

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CBHF Engineers, PLLC 2246 Yaupon Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.5266 www.cbhfengineers.com	SHEET TITLE: MECHANICAL DETAILS		M-4
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150		
	DES. CRG	INT. & EXT. REPAIRS	
	DR. CRG	BLDG. M131	
	CHK. TOG	CAMP LEJEUNE, NORTH CAROLINA	
	SUBMITTED BY:		
DESIGN DIR. T H BURTON, PE	APPROVED:	DATE:	SIZE: F
			CODE IDENT. NO. 80091
	SATISFACTORY TO:	DATE:	NAVFAC DRAWING NO. 60024541
			CONST. CONTR. NO. N40085-19-D-0025
	SCALE: NOTED	SPEC: 05-19-0025	SHEET 42 OF 59

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BRANCH CIRCUIT CONTROLLER SCHEDULE									
DRAWING CODE	POWER INPUT (RATED)		NUMBER OF PORTS	ELECTRICAL			WEIGHT (LBS)	NOTES	ACCESSORIES
	COOLING (kW)	HEATING (kW)		VOLTAGE (V/PH/Hz)	MCA (A)	MOCP (A)			
BCC01	0.274	0.137	16	208/1/60	1.65	15	172	1.2	A
BCC02	0.314	0.157	16	208/1/60	1.46	15	136	1.2	A

NOTES:
1. REFER TO SPECIFICATION 23 81 28.00 22 VARIABLE REFRIGERANT FLOW (VRF) AIR CONDITIONING AND HEAT PUMP EQUIPMENT FOR FURTHER INFORMATION.
2. PROVIDE CONDENSATE PUMP AND RESERVOIR WITH CAPACITY OF 3.7 GAL/HR AT 23 FT OF HEAD. INTERLOCK TO SHUTDOWN UNIT.

ACCESSORIES:
A. SUCTION AND LIQUID LINES SERVICE ISOLATION VALVES FOR ALL PORTS.

ELECTRIC UNIT HEATER SCHEDULE												
DRAWING CODE	TYPE	ELECTRIC COIL		SUPPLY AIR		ELECTRICAL			WEIGHT (LBS)	MOUNTING HEIGHT (FT)	NOTES	ACCESSORIES
		CAPACITY (KW)	STEPS	AIRFLOW (CFM)	THROW (FT)	POWER (V/PH/Hz)	MCA	MOCP				
EUH01	HORIZONTAL	3.3	1	400.0	12	208/1/60	15.9	20	27	10	1	A,B

NOTES:
1. REFER TO SPECIFICATION SECTION 23 73 33 - HEATING, VENTILATING, AND COOLING SYSTEM FOR FURTHER INFORMATION.

ACCESSORIES:
A. INTEGRAL THERMOSTAT.
B. WALL MOUNTING BRACKET.

DUCTLESS SPLIT SYSTEM SCHEDULE																	
DRAWING CODE	ARI COOLING		ARI HEATING		MIN SEER	MIN HSPFF	INDOOR UNIT		OUTDOOR UNIT			REFRIGERANT PIPING	NOTES	ACCESSORIES			
	80/97/95	TOTAL (MBH)	MIN. (MBH)	TOTAL (MBH)			FAN SA MIN-MAX (CFM)	VOLTAGE (V/PH/Hz)	MCA (AMPS)	WEIGHT (LBS)	VOLTAGE (V/PH/Hz)				MCA (AMPS)	MOCP (AMPS)	WEIGHT (LBS)
DAH23 / DHP03	31.4	8.2	36.9	20.5	10.0	388-738	208/1/60	1	37	208/1/60	17.1	20	119	100	50	1	A,B,C,D

NOTES:
1. REFER TO SPECIFICATION 238000 - VARIABLE REFRIGERANT FLOW SYSTEM FOR FURTHER INFORMATION.

ACCESSORIES:
A. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT AND CONDUCTOR FROM OUTDOOR UNIT TO INDOOR UNIT.
B. SEAFOAST COATING PROTECTION ON OUTDOOR UNIT.
C. ROOF MOUNTING RAILS AND ACCESSORIES.
D. WIRED WALL-MOUNTED REMOTE CONTROLLER WITH VANDAL PROOF ENCLOSURE.

DIFFUSERS, REGISTERS AND GRILLES SCHEDULE									
DRAWING CODE	TYPE	SERVICE	NECK SIZE (IN.)	MODULE SIZE (IN.)	MATERIAL	FINISH	MOUNTING	NOTES	ACCESSORIES
S2	SQUARE CEILING DIFFUSER	SUPPLY	60	24 X 24	ALUMINUM	WHITE	T-BAR	1.2	A
S3	SQUARE CEILING DIFFUSER	SUPPLY	60	24 X 24	ALUMINUM	WHITE	T-BAR	1.2	A
S4	SQUARE CEILING DIFFUSER	SUPPLY	60	12 X 12	ALUMINUM	WHITE	CEILING SURFACE	1.2	B
S5	SQUARE CEILING DIFFUSER	SUPPLY	60	12 X 12	ALUMINUM	WHITE	CEILING SURFACE	1.2	B
E1	FIXED FACE GRILLE	EXHAUST	12 X 12	14 X 14	ALUMINUM	WHITE	CEILING SURFACE	1.2	C
E2	FIXED FACE GRILLE	EXHAUST	12 X 12	14 X 14	ALUMINUM	WHITE	T-BAR	1.2	C
R1	FIXED FACE GRILLE	RETURN	22 X 22	24 X 24	ALUMINUM	WHITE	T-BAR	1	-
T1	FIXED FACE GRILLE	TRANSFER	22 X 22	24 X 24	ALUMINUM	WHITE	T-BAR	1	-

NOTES:
1. REFER TO SPECIFICATION SECTION 23 73 33 - HEATING, VENTILATING, AND COOLING SYSTEM FOR FURTHER INFORMATION.
2. DUCT BRANCH CONNECTION SIZE TO BE EQUAL TO THE NECK SIZE OF DIFFUSER UNLESS NOTED OTHERWISE ON PLANS.

ACCESSORIES:
A. VOLUME DAMPER.
B. INTEGRAL VOLUME DAMPER.
C. STEEL MOUNTING PANEL.

POWER FAN MOTOR SCHEDULE															
DRAWING CODE	FAN TYPE	SERVICE	CAPACITIES		DRIVE ARRANGEMENT	FAN RPM	ELECTRICAL			SONES	WEIGHT (LBS.)	NOTES	ACCESSORIES		
			AIRFLOW (CFM)	ESP (IN. WG.)			MOTOR TYPE	MOTOR SIZE (HP)	V/PH/Hz					MCA	MOCP
PV01	IN-LINE CENTRIFUGAL FANS	EXHAUST	354	0.29	DIRECT	1000	ECM	-	115/1/60	1.87	15	2.6	36	1,2	A,B

NOTES:
1. REFER TO SPECIFICATION SECTION 23 73 33 - HEATING, VENTILATING, AND COOLING SYSTEM FOR FURTHER INFORMATION.
2. PROVIDE ON/OFF/AUTO SWITCH WITH THERMOSTAT.

ACCESSORIES:
A. BIRDSCREEN.
B. GRAVITY DAMPER.

VRF SPLIT SYSTEM SCHEDULE - OUTDOOR												
DRAWING CODE (OUTDOOR)	OUTDOOR UNIT					OUTDOOR UNIT			NOTES	ACCESSORIES		
	NOMINAL COOLING CAPACITY (MBH)	NOMINAL HEATING CAPACITY (MBH)	NOMINAL COOLING LOAD (MBH)	NOMINAL HEATING LOAD (MBH)	MIN SEER	MIN COP	VOLTAGE (V/PH/Hz)	MCA (AMPS)			MOCP (AMPS)	WEIGHT (LBS)
DHP01	120.0	135.0	73.0	105.9	11.7	3.5	208/3/60	42	60	695	1,2,3,4	A,B,C,D,E,F
DHP02	120.0	135.0	73.0	105.9	11.7	3.5	208/3/60	42	60	695	1,2,3,4	A,B,C,D,E,F

NOTES:
1. REFER TO SPECIFICATION 23 81 28.00 22 VARIABLE REFRIGERANT FLOW (VRF) AIR CONDITIONING AND HEAT PUMP EQUIPMENT FOR FURTHER INFORMATION.
2. DHP01 & DHP02 ARE TWINNED TOGETHER TO RUN AS ONE SYSTEM.
3. PROVIDE MANUFACTURER'S EXTENDED PARTS WARRANTY PERIOD OF TEN (10) YEARS FROM DATE OF START-UP.
4. PROVIDE TRAINING PER SPECIFICATIONS ONCE COMMISSIONING IS COMPLETE.

ACCESSORIES:
A. MANUFACTURER'S SEAFOAST PROTECTION PASSING ASTM B117 90 3000 HOUR SALT SPRAY RESISTANCE TEST AS INSTALLED.
B. CONCRETE MOUNTING PAD.
C. LAPTOP COMPUTER WITH MAINTENANCE/TROUBLESHOOTING SOFTWARE.
D. HAIL GUARD.
E. TWINNING KIT.
F. BC CONTROLLER - REFER TO BRANCH CIRCUIT CONTROL SCHEDULE.

LOUVER SCHEDULE												
DRAWING CODE	TYPE	FRAME	DESCRIPTION	MATERIAL	LOUVER DEPTH (IN.)	SIZE (W x H) (IN.)	SERVICE	AIRFLOW (CFM)	PERFORMANCE RATINGS		NOTES	ACCESSORIES
									FREE AREA (SF)	S.P. LOSS (IN.H2O)		
L1	FIXED	CHANNEL	HORIZONTAL, DRAINABLE-BLADE	ALUMINUM	6	24 X 16	EXHAUST	960	1.21	0.08	1.2	A

NOTES:
1. REFER TO SPECIFICATION SECTION 23 73 33 - HEATING, VENTILATING, AND COOLING SYSTEM FOR FURTHER INFORMATION.
2. FINISH AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLOR AND GLOSS.

ACCESSORIES:
A. BIRD SCREENING (MATERIAL TO MATCH LOUVER MATERIAL).

ROOF HOOD SCHEDULE															
DRAWING CODE	TYPE	AIRFLOW (CFM)	CONSTRUCTION MATERIAL	ROOF CURB	SCREENING			FINISH			CAPACITIES AND CHARACTERISTICS	NOTES	ACCESSORIES		
					CONFIGURATION	HEIGHT (IN.)	TYPE	MATERIAL	HEIGHT (IN.)	DIAMETER (IN.)				BASE (IN.)	THROAT AREA (SQ. FT.)
RH01	INTAKE	960	ALUMINUM	FLAT	8	BIRD	GALVANIZED	ANODIZED	11.25	35.5	30.0	2.00	0.03	1	A, B

NOTES:
1. REFER TO SPECIFICATION SECTION 233723 - HVAC GRAVITY VENTILATORS FOR FURTHER INFORMATION.

ACCESSORIES:
A. BIRD SCREEN - MATCH VENTILATOR MATERIAL.

VRF SPLIT SYSTEM SCHEDULE - INDOOR												
DRAWING CODE (INDOOR)	DRAWING CODE (OUTDOOR)	BRANCH CONTROLLER	DEDICATED OUTDOOR AIR SYSTEM	INDOOR UNIT		INDOOR UNIT			NOTES	ACCESSORIES		
				NOMINAL COOLING CAPACITY (MBH)	NOMINAL HEATING CAPACITY (MBH)	FAN SA MIN-MAX (CFM)	VOLTAGE (V/PH/Hz)	MCA (AMPS)			MOCP (AMPS)	WEIGHT (LBS)
DAH01		BCC01		48.0	54.0	980-1400	208/1/60	5.63	15	172	1,2,3,4,5	A,B,C
DAH02		BCC02		6.0	6.7	170-210	208/1/60	0.19	15	22	1,2,3,4,5	A,B,C,D
DAH03-A		BCC02		8.0	9.0	320-413	208/1/60	0.38	15	29	1,2,3,4,5	A,B,C,D
DAH03-B		BCC02		8.0	9.0	320-413	208/1/60	0.38	15	29	1,2,3,4,5	A,B,C,D
DAH04		BCC02		12.0	13.5	320-413	208/1/60	0.38	15	29	1,2,3,4,5	A,B,C
DAH05		BCC02		6.0	6.7	170-210	208/1/60	0.19	15	22	1,2,3,4,5	A,B,C
DAH06		BCC02		6.0	6.7	170-210	208/1/60	0.19	15	22	1,2,3,4,5	A,B,C,D
DAH07		BCC02		12.0	13.5	320-413	208/1/60	0.38	15	29	1,2,3,4,5	A,B,C
DAH08-A		BCC02		6.0	6.7	170-210	208/1/60	0.19	15	22	1,2,3,4,5	A,B,C
DAH08-B		BCC02		6.0	6.7	170-210	208/1/60	0.19	15	22	1,2,3,4,5	A,B,C
DAH09		BCC02		6.0	6.7	170-210	208/1/60	0.19	15	22	1,2,3,4,5	A,B,C,D
DAH10		BCC02		6.0	6.7	170-210	208/1/60	0.19	15	22	1,2,3,4,5	A,B,C,D
DAH11	DHP01 / DHP02	BCC01	DOAS01 / DOAS02	18.0	20.0	410-585	208/1/60	3.00	15	113	1,2,3,4,5	A,B,C
DAH12		BCC01		18.0	20.0	410-585	208/1/60	3.00	15	113	1,2,3,4,5	A,B,C
DAH13-A		BCC01		12.0	13.5	320-413	208/1/60	0.38	15	29	1,2,3,4,5	A,B,C
DAH13-B		BCC01		12.0	13.5	320-413	208/1/60	0.38	15	29	1,2,3,4,5	A,B,C
DAH14		BCC01		15.0	17.0	320-413	208/1/60	0.38	15	29	1,2,3,4,5	A,B,C,D
DAH15		BCC01		15.0	17.0	320-413	208/1/60	0.38	15	29	1,2,3,4,5	A,B,C
DAH16		BCC01		12.0	13.5	320-413	208/1/60	0.38	15	29	1,2,3,4,5	A,B,C,D
DAH17		BCC01		12.0	13.5	320-413	208/1/60	0.38	15	29	1,2,3,4,5	A,B,C,D
DAH18		BCC01		8.0	9.0	320-413	208/1/60	0.38	15	29	1,2,3,4,5	A,B,C
DAH19		BCC01		8.0	9.0	320-413	208/1/60	0.38	15	29	1,2,3,4,5	A,B,C,D
DAH20		BCC01		12.0	13.5	320-413	208/1/60	0.38	15	29	1,2,3,4,5	A,B,C,D
DAH21		BCC01		12.0	13.5	320-413	208/1/60	0.38	15	29	1,2,3,4,5	A,B,C,D
DAH22		BCC01		24.0	27.0	570-920	208/1/60	0.63	15	46	1,2,3,4,5	A,B,C,D

NOTES:
1. REFER TO SPECIFICATION 23 81 28.00 22 VARIABLE REFRIGERANT FLOW (VRF) AIR CONDITIONING AND HEAT PUMP EQUIPMENT FOR FURTHER INFORMATION.
2. PROVIDE MANUFACTURER'S EXTENDED PARTS WARRANTY PERIOD OF TEN (10) YEARS FROM DATE OF START-UP.
3. PROVIDE TRAINING PER SPECIFICATIONS ONCE COMMISSIONING IS COMPLETE.
4. REFER TO SCHEMATIC PIPING/CONTROL DIAGRAM ON MECHANICAL DRAWINGS FOR INDICATION OF REQUIRED INDOOR UNIT REMOTE CONTROLLERS, SYSTEM CONTROLLERS, AND INTEGRATION DEVICES.
5. DHP01 & DHP02 ARE TWINNED TOGETHER TO RUN AS ONE SYSTEM. REFER TO VRF SPLIT SYSTEM SCHEDULE - OUTDOOR.

ACCESSORIES:
A. CONCRETE MOUNTING PAD
B. LAPTOP COMPUTER WITH MAINTENANCE/TROUBLESHOOTING SOFTWARE
C. WIRED WALL-MOUNTED REMOTE CONTROL WITH OCCUPANCY CONTROL AND SPACE HUMIDITY DISPLAY.
D. PROVIDE CONDENSATE PUMP AND RESERVOIR WITH CAPACITY OF 5 GAL/HR AT 33 FT OF HEAD. INTERLOCK TO SHUTDOWN UNIT.

SINGLE PACKAGE DEDICATED OUTSIDE AIR UNIT SCHEDULE																							
DRAWING CODE	SYSTEM TYPE	OUTSIDE AIR FAN		EXHAUST AIR FAN		ENTHALPY PLATE & WHEEL - DRY DAY				ENTHALPY PLATE & WHEEL - HUMID DAY				NOTES	ACCESSORIES								
		OUTSIDE AIR (CFM)	ESP (IN H2O)	MOTOR AIR (CFM)	TSP (IN H2O)	ESP (IN H2O)	MOTOR (KW)	SUMMER LAT (°F DB)	WINTER LAT (°F WB)	SUMMER LAT (°F DB)	WINTER LAT (°F WB)	TOT CAP (MBH)	SENS CAP (MBH)			TOT CAP (MBH)	SENS CAP (MBH)						
DOAS01	HEAT PUMP	300	1.00	0.4	270	1.00	1.00	0.4	77.4	67.8	60.7	47.2	75.7	68.3	19.9	4.1	22.6	20.3	208/1/60	10.4	15.0	1,2,3,4,5,6	A,B,C
DOAS02	HEAT PUMP	300	1.00	0.4	270	1.00	1.00	0.4	77.4	67.8	60.7	47.2	75.7	68.3	19.9	4.1	22.6	20.3	208/1/60	10.4	15.0	1,2,3,4,5,6	A,B,C

NOTES:
1. REFER TO SPECIFICATION SECTION 23 73 33 - HEATING, VENTILATION, AND COOLING SYSTEM FOR FURTHER REQUIREMENTS.
2. OUTDOOR DESIGN CONDITIONS: 91.0F / 77.0F 1%DBMCWB AND 140 GRAINS/LB WITH AN 84.0F MCOB COOLING/DEHUMIDIFYING CONDITIONS. 26.0F 99% AND 22.0F 99.6% HEATING CONDITIONS. EQUIPMENT SELECTION SHALL MEET ALL CONDITIONS.
3. PERFORMANCE DATA BASED UPON MAXIMUM AIR QUANTITIES SCHEDULED.
4. EFFICIENCY RATED IN ACCORDANCE WITH ANSI/AHRI STANDARD 340/960.
5. CONTROL CONTRACTOR SHALL PROVIDE ON/OFF SIGNAL TO UNIT BASED ON OCCUPANCY SCHEDULE.
6. FIELD INSTALL THE FOLLOWING MONITORING SENSORS: OUTSIDE AIR TEMPERATURE AND HUMIDITY, SUPPLY AIR TEMPERATURE AND HUMIDITY, RETURN AIR TEMPERATURE, SUPPLY FAN STATUS AND EXHAUST FAN STATUS. SENSORS SHALL BE SUPPLIED AND INSTALLED BY CONTROLS CONTRACTOR.

ACCESSORIES:
A. ECM FAN MOTORS
B. CONDENSER, EVAPORATOR AND REHEAT COILS TO BE COATED FOR EXPOSURE TO ASTM B117-90 3000 HOUR SALT SPRAY RESISTANCE TEST WITH NO DEGRADATION.
C. SINGLE POINT ELECTRICAL CONNECTION.

SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

	SHEET TITLE: MECHANICAL SCHEDULES		M-5
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 Phone: 910.791.4000 Fax: 910.791.5266 www.cbhfindesign.com		
DES. CRG DR. CRG CHK. TOG SUBMITTED BY: DESIGN DIR. T H BURTON, PE		INT. & EXT. REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA	
APPROVED:		DATE: 8/24/19	SIZE: F CODE IDENT. NO.: 80091 NAFAC DRAWING NO.: 60024542 CONST. CONTR. NO.: N40085-19-D-0025 SCALE: NOTED SPEC: 05-19-0025 SHEET 43 OF 59

REVISIONS		
SYM.	DATE	APPROVED

VRF SYSTEM

DESCRIPTION: SPLIT SYSTEM, VARIABLE REFRIGERANT HEAT RECOVERY SYSTEM CONSISTING OF MULTIPLE INDOOR AIR HANDLERS WITH MULTIPLE SPEED AIR VOLUME, UNDER CONTROL OF DDC SYSTEM. EACH INDOOR UNIT MAY BE IN HEATING OR COOLING MODE INDEPENDENT OF THE OTHER INDOOR UNITS.

HEAT PUMP INDOOR AIR HANDLER

EACH INDOOR UNIT SHALL BE SCHEDULED ON BY THE BMS SYSTEM AT THE OCCUPIED TIMES DEFINED BY THE OWNER.

THE INDOOR UNITS SHALL BE SET TO AUTO MODE DURING OCCUPIED TIMES. DURING UNOCCUPIED TIMES THE INDOOR UNITS SHALL BE SET TO HEAT OR COOL BASED ON OUTSIDE AIR ENTHALPY CONDITIONS.

THE BMS SHALL SET THE OCCUPIED AND UNOCCUPIED TEMPERATURE SET-POINTS. BMS SHALL GLOBALLY SET THIS AS A SINGLE HEATING/COOLING SET POINT, WITH AN AMBIENT RESET, 70F AT 50F AMBIENT, AND 76F AT 80F AMBIENT, LINEAR IN BETWEEN.

DURING UNOCCUPIED TIMES THE BMS SHALL SEND THE OFF COMMAND TO THE INDOOR UNIT AT THE START OF UNOCCUPIED TIMES AND EVERY TWO HOURS THEREAFTER TO REINFORCE THE SETBACK CONDITIONS. THE BMS SHALL MONITOR THE ROOM TEMPERATURE AT THE REMOTE CONTROLLER IN THE SPACE AND COMMAND THE UNIT ON IF THE OWNER SPECIFIED UNOCCUPIED LIMITS ARE EXCEEDED. THE BMS SHALL SEND THE COOL MODE COMMAND WHEN THE TEMPERATURE UPPER LIMIT IS EXCEEDED OR THE HEAT MODE COMMAND WHEN THE TEMPERATURE LOWER LIMIT IS EXCEEDED. THE BMS SHALL SEND THE TEMPERATURE UPPER OR LOWER LIMIT AS THE SPACE TEMPERATURE SET-POINT DURING UNOCCUPIED TIME.

OCCUPANCY SCHEDULE (ADJ.)

OCCUPIED MONDAY THRU FRIDAY 0700 TO 1600.

DEDICATED OUTSIDE AIR SYSTEM UNIT

DESCRIPTION: DEDICATED OUTSIDE AIR SYSTEM UNIT SUPPLYING 100% OUTDOOR AIR DIRECTLY TO SPACE, WITH DX COOLING, HOT GAS REHEAT, DX HEATING, ENTHALPY WHEEL AND FIXED PLATE ENERGY RECOVERY HEAT EXCHANGER.

UNIT START/STOP CONTROL: START/STOP UNIT BASED ON (1) USER-DEFINED 'ON/OFF' SCHEDULE.

SETPOINTS SHALL BE AS FOLLOWS:

OUTSIDE AIR COOLING SETPOINT: 70°F (ADJ)
 OUTDOOR AIR HEATING SETPOINT: 60°F (ADJ)

SYSTEM CONTROL:
 DURING 'ON/OCCUPIED' PERIODS, THE UNIT SUPPLY AND EXHAUST FAN SHALL BE ENERGIZED.
 DURING 'OFF/UN-OCCUPIED' PERIODS, THE SUPPLY AND EXHAUST FAN ARE OFF.

TEMPERATURE AND HUMIDITY CONTROL:

WHEN THE DRY BULB AT THE UNIT'S TEMPERATURE SENSOR EXCEEDS THE DEHUMIDIFICATION (COOLING) SET POINT, THE COMPRESSOR WILL BE TURNED ON WITH THE REVERSING VALVE SET IN THE DEHUMIDIFICATION (COOLING) POSITION. THE SUPPLY AIR WILL BE CONDITIONED BY THE ENTHALPY WHEEL AND THE REFRIGERATION SYSTEM.

WHEN THE DRY BULB AT THE UNIT'S TEMPERATURE SENSOR FALLS BELOW THE HEATING SET POINT, THE COMPRESSOR WILL BE TURNED ON WITH THE REVERSING VALVE IN THE HEATING POSITION. THE SUPPLY AIR WILL BE CONDITIONED BY THE ENTHALPY WHEEL AND THE REFRIGERATION SYSTEM.

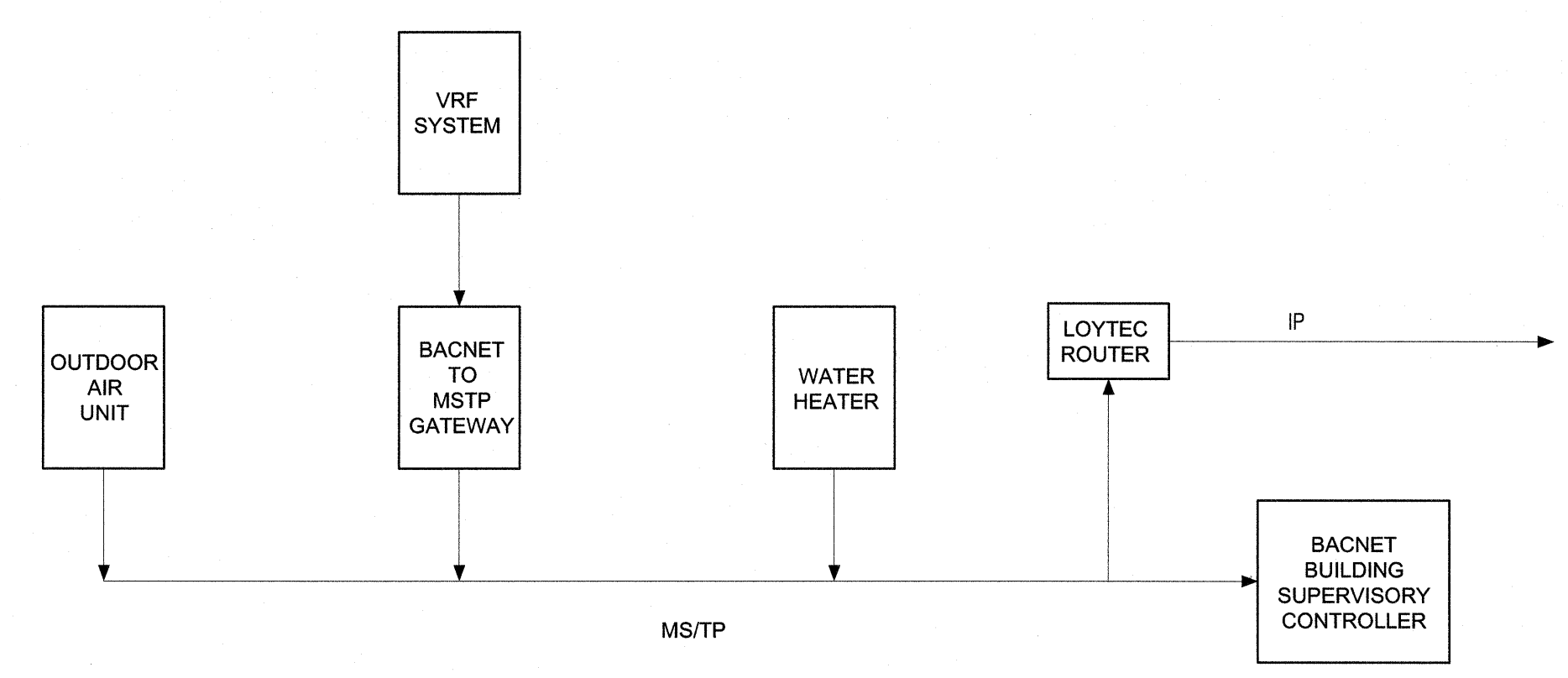
WHEN THE DRY BULB AT THE UNIT'S TEMPERATURE SENSOR IS BETWEEN THE DEHUMIDIFICATION (COOLING) AND HEATING SET POINTS, THE COMPRESSOR WILL BE TURNED OFF. THE SUPPLY AIR WILL BE CONDITIONED ONLY BY THE ENTHALPY WHEEL.

VRF SYSTEM INDOOR AIR HANDLER POINTS LIST

INDOOR UNIT CONTROL POINT DESCRIPTION	SOFTWARE POINTS			ALARMS		
	NETWORK VARIABLE INPUT	NETWORK VARIABLE OUTPUT	DISPLAY	HIGH LIMIT	LOW LIMIT	ABNORMALITY
ON/OFF	x					
SET MODE	x					
SET TEMPERATURE	x		x			
MODE STATE		x	x			
ROOM TEMPERATURE		x	x	x	x	
FAN SPEED STATE		x	x			
INDOOR UNIT NOTIFY		x	x			
ERROR CODE		x	x			x

DEDICATED OUTSIDE AIR SYSTEM UNIT POINTS LIST

INDOOR UNIT CONTROL POINT DESCRIPTION	SOFTWARE POINTS		FUNCTIONS			ALARMS		
	NETWORK VARIABLE INPUT	NETWORK VARIABLE OUTPUT	SCHEDULE	TREND	DISPLAY	HIGH LIMIT	LOW LIMIT	ABNORMALITY
ON/OFF	x		x	x				
SUPPLY AIR TEMPERATURE	x		x	x	x	x	x	
SUPPLY AIR DEWPOINT	x		x	x	x	x		
OUTSIDE AIR TEMPERATURE	x		x	x	x			
OUTSIDE AIR DEWPOINT	x		x	x	x			
RETURN AIR TEMPERATURE	x		x	x	x	x	x	
ON/OFF STATUS		x			x			
SUPPLY FAN STATUS		x			x			
EXHAUST FAN STATUS		x			x			



1 CONTROL SYSTEM ARCHITECTURE
NOT TO SCALE

SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

CBHF Engineers, PLLC 2246 Yaupon Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.5266 www.cbhfindesign.com	SHEET TITLE: MECHANICAL CONTROLS		M-6
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150		
	DES. CRG DR. CRG CHK. TOG SUBMITTED BY:	INT. & EXT. REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA	
	DESIGN DIR. T H BURTON, PE	APPROVED:	DATE:
	SATISFACTORY TO:	DATE:	SIZE: F CODE IDENT. NO.: 80091 NAVFAC DRAWING NO.: 60024543
	SCALE: NOTED	SPEC: 05-19-0025	SHEET 44 OF 59

REVISIONS		
SYM.	DATE	APPROVED

M131 Command Building	
DIAGRAM SYMBOL LEGEND	(CONT.No) PAGE
---#---	POWER WIRE
---C---	CONTROL WIRE
---	REF. PIPE

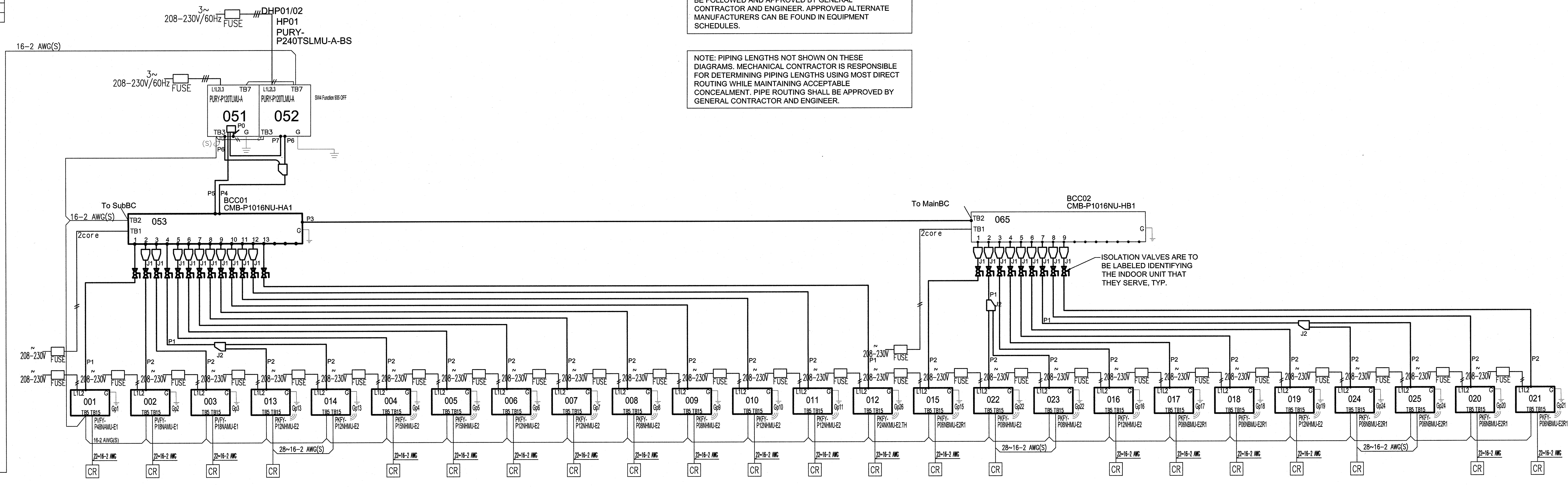
CITY MULTI SYSTEM SCHEMATIC DWG.

Additional refrigerant charge is needed depending on the size and length of extended piping. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book.
 1.25mm(16 AWG) : 1.25mm(16 AWG) or more. 0.75mm(20 AWG) : between 0.5mm(14 AWG) and 0.75mm(20 AWG)

NOTE: VRF SYSTEM SCHEMATIC SHOWN IS FOR REFERENCE ONLY AND IS FOR BASIS OF DESIGN MANUFACTURER. IF APPROVED ALTERNATE MANUFACTURER IS USED THE SYSTEM SCHEMATIC AND RECOMMENDED INSTALLATION REQUIREMENTS SHOULD BE FOLLOWED AND APPROVED BY GENERAL CONTRACTOR AND ENGINEER. APPROVED ALTERNATE MANUFACTURERS CAN BE FOUND IN EQUIPMENT SCHEDULES.

NOTE: PIPING LENGTHS NOT SHOWN ON THESE DIAGRAMS. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR DETERMINING PIPING LENGTHS USING MOST DIRECT ROUTING WHILE MAINTAINING ACCEPTABLE CONCEALMENT. PIPE ROUTING SHALL BE APPROVED BY GENERAL CONTRACTOR AND ENGINEER.

PIPING AND CONTROLS	
SYMBOL	DESCRIPTION
J1	Reducer
J2	CMT-M10SS-G2
SYMBOL	DESCRIPTION
P1	3/8" / 3/8"
P2	3/8" / 3/4" / 7/8"
P3	1/2"
P4	5/8"
P5	1"
P6	3/4"
P7	1 1/8"
SYMBOL	DESCRIPTION
CR	REF. PIPING



- 131
- 103
- 103
- 104
- 105
- 107A
- 107B
- 108
- 109
- 110B
- 110A
- 113
- 130
- 120
- 120
- 121
- 122
- 123
- 125
- 126
- 126
- 127
- 128
- DAH01
- DAH11
- DAH12
- DAH13-A
- DAH13-B
- DAH14
- DAH15
- DAH16
- DAH17
- DAH18
- DAH19
- DAH20
- DAH21
- DAH22
- DAH02
- DAH03-A
- DAH03-B
- DAH04
- DAH05
- DAH06
- DAH07
- DAH08-A
- DAH08-B
- DAH09
- DAH10

1 VRF SYSTEM SCHEMATIC
NOT TO SCALE

SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

	SHEET TITLE: MECHANICAL CONTROLS		M-7
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150		
DES. CRG DR. CRG CHK. TOG SUBMITTED BY: DESIGN DR. T H BURTON, PE		DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA INT. & EXT. REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA	
APPROVED: [Signature] DATE: 04/30/11		SIZE: F CODE IDENT. NO.: 80091	NAVFAC DRAWING NO.: 60024544 CONST. CONTR. NO.: N40085-19-D-0025
SATISFACTORY TO: [Signature]		DATE:	SCALE: NOTED SPEC: 05-19-0025 SHEET 45 OF 59

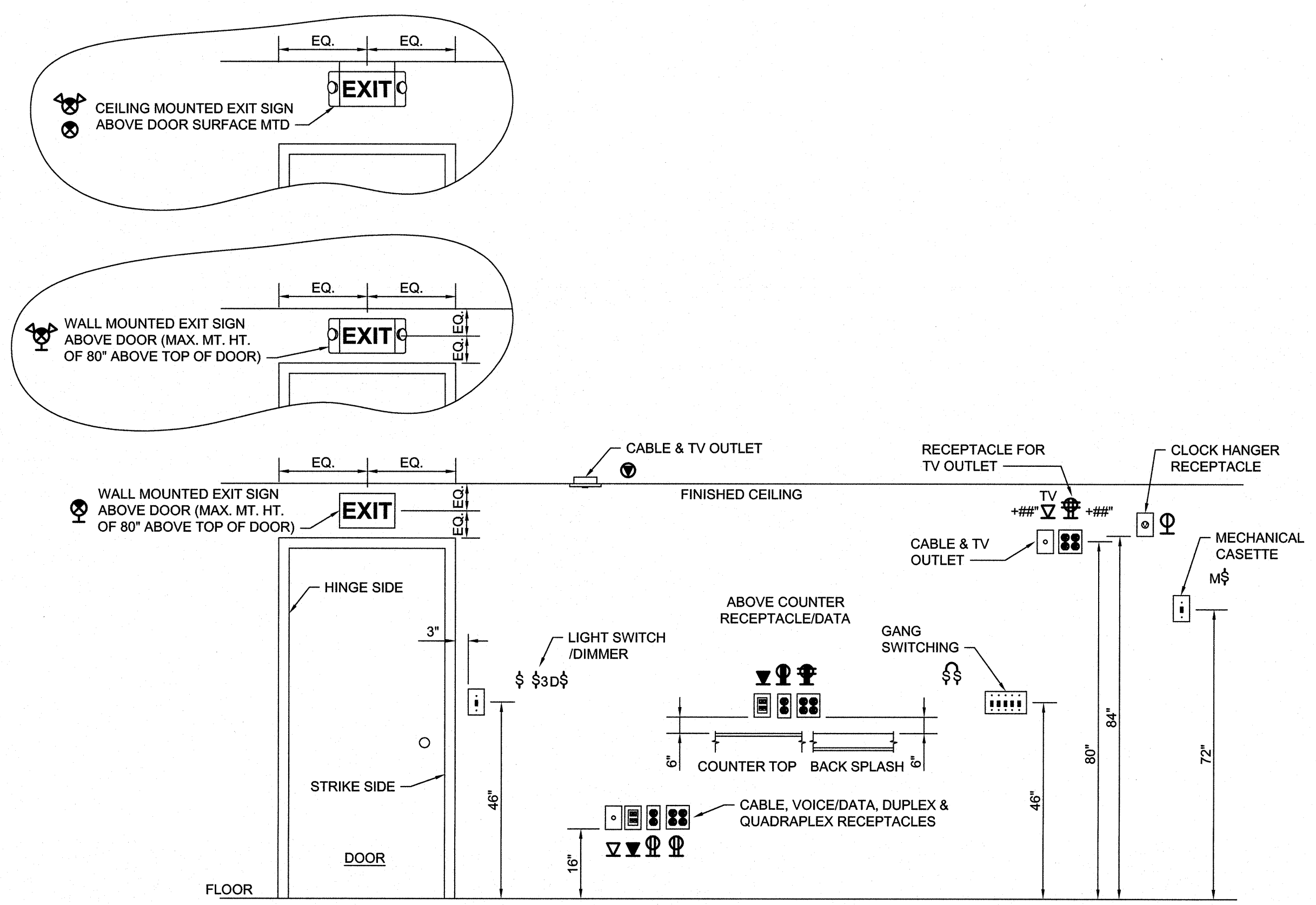
REVISIONS		
SYM.	DATE	APPROVED

LOAD SUMMARY	
VOLTAGE	PHASE
208	3
LARGEST MOTOR APPROX. AMPS	105 AMPS
LARGEST MOTOR APPROX. AMPS x .25	26 AMPS
HVAC	
DDAS01 & 02	3,461 VA
DHP01 & 02	24,211 VA
DAH01-02	3,147 VA
DHP03DAH23	3,286 VA
SUB-TOTAL HVAC DEMAND	30,818 VA
SUB-TOTAL HVAC DEMAND	86 AMPS
EQUIPMENT	
EW11	4,500 VA
CP1	125 VA
EWC1	400 VA
EUH01	2,646 VA
BCC01 & 02	518 VA
PV01	180 VA
DOOR LOCKS	500 VA
TELEVISION / MONITORS (QTY. 3)	1,800 VA
REFRIGERATOR	1,000 VA
FACP	1,000 VA
VENDING MACHINES (QTY. 2)	1,000 VA
GENERATOR EQUIPMENT	1,450 VA
SUB-TOTAL EQUIPMENT DEMAND	15,148 VA
SUB-TOTAL EQUIPMENT DEMAND	42 AMPS
ADD FOR LARGEST MOTOR	26 AMPS
TOTAL EQUIPMENT DEMAND	68 AMPS
LIGHTING	
LIGHTS (INTERIOR, BASED ON NEC 220.12)	27,258 VA
LIGHTS (EXTERIOR)	135 VA
SIGN	1,200 VA
TOTAL LIGHTING LOAD	28,593 VA
LIGHTING LOAD x 1.25	35,741 VA
TOTAL DEMAND FOR LIGHTING	99 AMPS
RECEPTACLES	
RECEPTACLES	25,740 VA
FIRST 1000VA	10,000 VA
REMAINDER @ 50%	7,870 VA
TOTAL DEMAND FOR RECEPTACLE	17,870 VA
TOTAL DEMAND FOR RECEPTACLE	50 AMPS
TOTAL DEMAND BUILDING AMPS	303 AMPS
TOTAL DEMAND BUILDING AMPS	109,034 VA
TOTAL BUILDING CONNECTED LOAD	100,299 VA

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	2x4 LIGHT FIXTURE, RECESSED OR SURFACE MOUNTED LETTER INDICATES FIXTURE TYPE (SEE FIXTURE SCHEDULE)
	4FT OR 8FT LIGHT FIXTURE, RECESSED OR SURFACE MOUNTED LETTER INDICATES FIXTURE TYPE (SEE FIXTURE SCHEDULE)
	4FT OR 8FT CHANNEL LIGHT FIXTURE, SUSPENDED OR SURFACE MOUNTED LETTER INDICATES FIXTURE TYPE (SEE FIXTURE SCHEDULE)
	TRACK WITH LIGHT KIT LETTER INDICATES FIXTURE TYPE (SEE FIXTURE SCHEDULE)
	RECESSED LIGHT FIXTURE LETTER INDICATES FIXTURE TYPE (SEE FIXTURE SCHEDULE)
	SURFACE LIGHT FIXTURE LETTER INDICATES FIXTURE TYPE (SEE FIXTURE SCHEDULE)
	WALL MOUNTED LIGHT FIXTURE LETTER INDICATES FIXTURE TYPE (SEE FIXTURE SCHEDULE)
	POWER & SWITCH LEG
	UNSWITCHED LEG
	EXIT SIGN, SINGLE FACE, CEILING, ARROW INDICATES DIRECTION. LETTER INDICATES FIXTURE TYPE (SEE FIXTURE SCHEDULE)
	EXIT SIGN, DOUBLE FACE, CEILING MOUNTED, ARROW INDICATES DIRECTION. LETTER INDICATES FIXTURE TYPE (SEE FIXTURE SCHEDULE)
	EMERGENCY LIGHTING UNIT, 2-HEAD WITH BATTERY BACK-UP, WALL MOUNTED, "NOT SWITCHED" LETTER INDICATES FIXTURE TYPE (SEE FIXTURE SCHEDULE)
	PHOTOCELL, REMOTE MOUNTED, 120V, 10 SECOND TIME DELAY, UL WET LOCATION, RATED FOR 1500 W @ 120 VAC AND 4000 W @ 277 VAC (FOR USE WITH LAMP SOURCE(S) SHOWN)
	SWITCH, SINGLE POLE, 120/277VAC, 20A, MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED (SEE ELECTRICAL MOUNTING HEIGHT DETAIL). LOWER CASE LETTER INDICATES FIXTURE SWITCHING (WHEN INDICATED)
	3-WAY SWITCH, SINGLE POLE 120/277 VAC, 20A, MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED
	HEAVY DUTY DIMMER 1500W @ 120 VAC AND 4000W @ 277 VAC
	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, 360° COVERAGE
	CEILING MOUNTED CLOSED LOOP PHOTOSENSOR
	WALL MOUNTED OCCUPANCY SENSOR, SINGLE BUTTON ON/OFF CONTROL, 180° COVERAGE, MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED.
	RECEPTACLE, DUPLEX, 120VAC, 20A, MOUNTED 16" AFF, UNLESS OTHERWISE NOTED. (SEE ELECTRICAL MOUNTING HEIGHT DETAIL) WP - LISTED WEATHER-RESISTANT TYPE DEVICE WITH WEATHERPROOF IN USE COVER GFI - GROUND FAULT CIRCUIT INTERRUPTER TYPE, 120VAC, 20A, MOUNTED 24" AFF LOCATE GFI TEST SWITCH IN A READILY ACCESSIBLE LOCATION TR - TAMPER RESISTANT
	RECEPTACLE, DUPLEX, 120VAC, 20A, MOUNTED 6" ABOVE COUNTER TOP OR BACK SPLASH. +##" - INDICATES MOUNTING HEIGHT OF DEVICE IN INCHES AFF (IF GIVEN) (SEE ELECTRICAL MOUNTING HEIGHT DETAIL)
	RECEPTACLE, QUADPLEX, 120VAC, 20A, MOUNTED 16" AFF UNLESS OTHERWISE NOTED (SEE ELECTRICAL MOUNTING HEIGHT DETAIL) WP - LISTED WEATHER-RESISTANT TYPE DEVICE WITH WEATHERPROOF, EXTRA DUTY, WHILE IN USE COVER GFI - GROUND FAULT CIRCUIT INTERRUPTER TYPE, 120VAC, 20A, MOUNTED 24" AFF LOCATE GFI TEST SWITCH IN A READILY ACCESSIBLE LOCATION TR - TAMPER RESISTANT
	RECEPTACLE, QUADPLEX, 120VAC, 20A, MOUNTED 6" ABOVE COUNTER TOP OR BACK SPLASH. +##" - INDICATES MOUNTING HEIGHT OF DEVICE IN INCHES AFF (IF GIVEN) (SEE ELECTRICAL MOUNTING HEIGHT DETAIL)
	DISCONNECT SWITCH, FUSED, HEAVY DUTY, SIZE AS INDICATED ON DRAWINGS ##A = DISCONNECT SIZE / # = NUMBER OF POLES / # = NEMA RATING, ##AF = FUSE SIZE
	MANUAL MOTOR STARTER, ELECTRICAL CONTRACTOR SHALL COORDINATE POLES AND SIZE WITH EQUIPMENT ## = AMPERAGE RATING WHEN INDICATED ON DRAWING

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	PANELBOARD, SURFACE OR RECESSED MOUNTED AS SHOWN. SIZE, RATINGS, AND MOUNTING AS INDICATED ON PANEL SCHEDULE. CONTRACTOR IS RESPONSIBLE FOR REQUIRED CLEARANCE IN FRONT OF ELECTRICAL PANEL. SEE NEC TABLE 110.26 WORKING SPACES FOR ADDITIONAL CLEARANCE CONDITIONS.
	CABLE TRAY, LADDER TYPE
	METER
	CONDUIT, HOME RUN TO PANEL BOARD
	WIRELESS ACCESS POINT, 1 DATA IN A DUAL GANG BOX WITH A SINGLE GANG PLASTER RING, OWNER SHALL PROVIDE SURGE PROTECTOR AND WAP DEVICE, THE ELECTRICAL CONTRACTOR SHALL INSTALL.
	COMBINATION DATA/TELEPHONE OUTLET, MOUNTED 18" AFF UNLESS OTHERWISE NOTED, PROVIDE 1" CONDUIT TO ABOVE GRID CEILING W/PULL STRING. OUTLETS LOCATED BELOW HARD(GYPSBOARD) CEILINGS, ROUTE 1" CONDUIT BACK TO TELEPHONE/DATA ROOM.
	JUNCTION BOX - WALL MOUNTED +##" - INDICATES MOUNTING HEIGHT OF DEVICE IN INCHES AFF (if given)
	JUNCTION BOX - CEILING/ABOVE CEILING MOUNTED
	JUNCTION BOX - FLOOR MOUNTED
	CAST IN PLACE 6 GANG FLOOR BOX WITH 4 DUPLEX RECEPTACLES AND DATA CAPABILITIES. COORDINATE DATA REQUIREMENTS WITH COMMANDING OFFICER. PROVIDE METAL IN-USE COVER PLATE, COLOR TO MATCH ARCHITECTURAL FINISHES.
	CAST IN PLACE GANG FLOOR BOX WITH DATA CAPABILITIES. COORDINATE DATA REQUIREMENTS WITH COMMANDING OFFICER. PROVIDE METAL IN-USE COVER PLATE, COLOR TO MATCH ARCHITECTURAL FINISHES.
	FLOOR MOUNTED DATA RACK
	GROUND BUS, " CG" INDICATES CAMERA GROUND BAR, " TG" INDICATES TELECOMMUNICATIONS GROUND BAR, " E" INDICATES ELECTRICAL GROUND BAR
	UNDERGROUND ELECTRICAL SECONDARY CONDUCTORS
	HATCHING INDICATES ITEMS TO BE DEMOLISHED, REMOVE DEVICE, EQUIPMENT, FIXTURE INDICATED, CIRCUIT, AND CONDUIT BACK TO SOURCE UNLESS OTHERWISE NOTED.
	DETAIL, SECTION OR PLAN NUMBER DRAWING SHEET PLAN, DETAIL OR SECTION APPEARS ON
	ENLARGED PLAN
	ELEVATION

TYPICAL ABBREVIATIONS:	
A, AMP	AMPERE
AF	ABOVE FINISHED FLOOR
AFS	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BOF	BOTTOM OF FIXTURE
BRKR	BREAKER
C, CND	CONDUIT
CAB	CABINET
CAT	CATALOG
CL	CLOCK
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CCT	CIRCUIT
CLG	CEILING
CP	CONTROL PANEL
CR	CONTROL RELAY, CORROSION RESISTANT
CS	CONTROL SWITCH
CV	CONTROL VALVE
CT	CURRENT TRANSFORMER
CU	COPPER
EF	EXHAUST FAN
EMER	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EQUIP	EQUIPMENT
EW	ELECTRIC WATER COOLER
EWV	ELECTRIC WATER HEATER
EPRF	EXPLOSION PROOF
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FLA	FULL LOAD AMPS
FLUOR	FLUORESCENT
FLR	FLOOR
FVE	FURNISHED WITH EQUIPMENT
GEN	GENERATOR
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HQA	HAND-OFF-AUTO
HP	HORSE POWER
HPE	HIGH POWER FACTOR
HPS	HIGH PRESSURE SODIUM
HTR	HEATER
HV	HIGH VOLTAGE
H2	HERTZ
IMC	INTERMEDIATE METALLIC CONDUIT
INCAND	INCANDESCENT
JB	JUNCTION BOX
K	THOUSAND
KCMIL	THOUSAND CIRCULAR MILLS
KVA	KILOVOLT AMPERE
KW	KILOWATTS
KWH	KILOWATT-HOURS
LP	LIGHTING PANEL, LIGHT POLE
LTD	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	MANHOLE
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTS	MOUNTING
MV	MANUAL TRANSFER SWITCH
N, NEUT	NEUTRAL
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
P	POLE
PA	PUBLIC ADDRESS
PB	PULL BOX, PUSH-BUTTON
PF	POWER FACTOR
PH,φ	PROGRAMMABLE LOGIC CONTROLLER
PLC	PANEL
PNL	POWER PANEL, POWER POLE
PP	POTENTIAL TRANSFORMER
PT	POWER
PWR	RECEPTACLE
RCPT, RCP	REQUIRED
REQ'D	RIGID GALVANIZED STEEL CONDUIT
RSS	ROOM
RM	REMOTE TELEMETRY UNIT
RTU	DC MOTOR DRIVE
SCR	SHEET
SH	SPECIFICATION
SPEC	SELECTOR SWITCH
SS	STAINLESS STEEL
SST	SWITCH
SW	SWITCHBOARD
SWBD	SWITCH GEAR
SWGR	TELEPHONE
TEL	TELEPHONE
TPS	TWISTED PAIR SHIELDED
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UGND	UNDERGROUND
UH	UNIT HEATER
UN	UNLESS OTHERWISE NOTED
UTIL	UTILITY
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE, WATT
WH	WATT-HOUR
WP	WEATHERPROOF
XFMR	TRANSFORMER



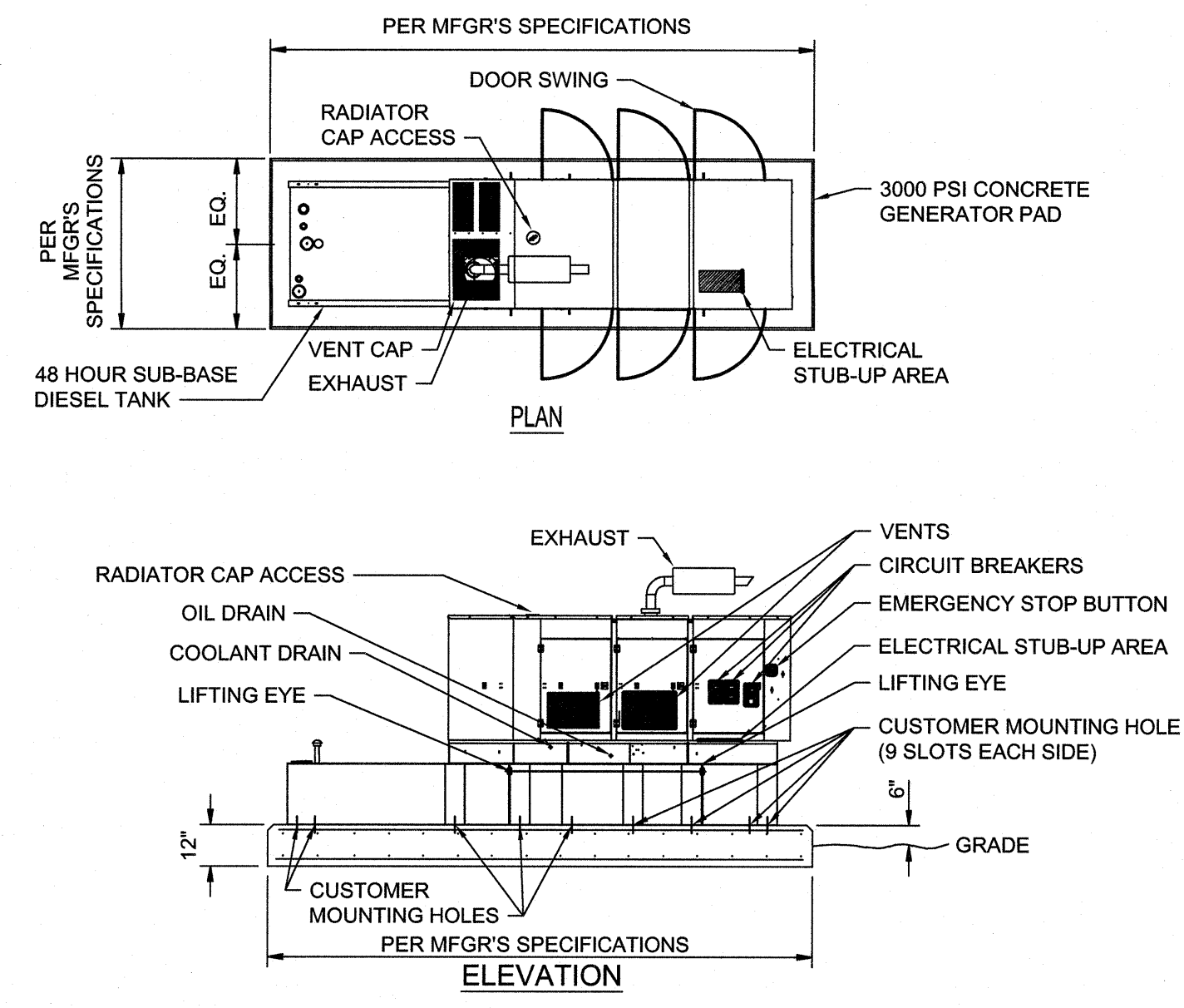
1 ELECTRICAL DEVICES - MOUNTING HEIGHT DETAIL
NOT TO SCALE

SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

 2246 Yaupon Drive Wilmington, NC 28401 Phone: 910.791.4900 Fax: 910.791.5266 www.cbhfindesign.com	SHEET TITLE: ELECTRICAL GENERAL INFORMATION		E-1
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150		
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA		INT. & EXT. REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA	
DES. RRD DR. RRD CHK. JPF SUBMITTED BY: DESIGN DR. T H BURTON, PE	APPROVED: _____ DATE: _____	SIZE: F CODE IDENT. NO.: 80091 NAFAC DRAWING NO.: 60024545 CONST. CONTR. NO.: N40085-19-D-0025	SHEET 46 OF 59

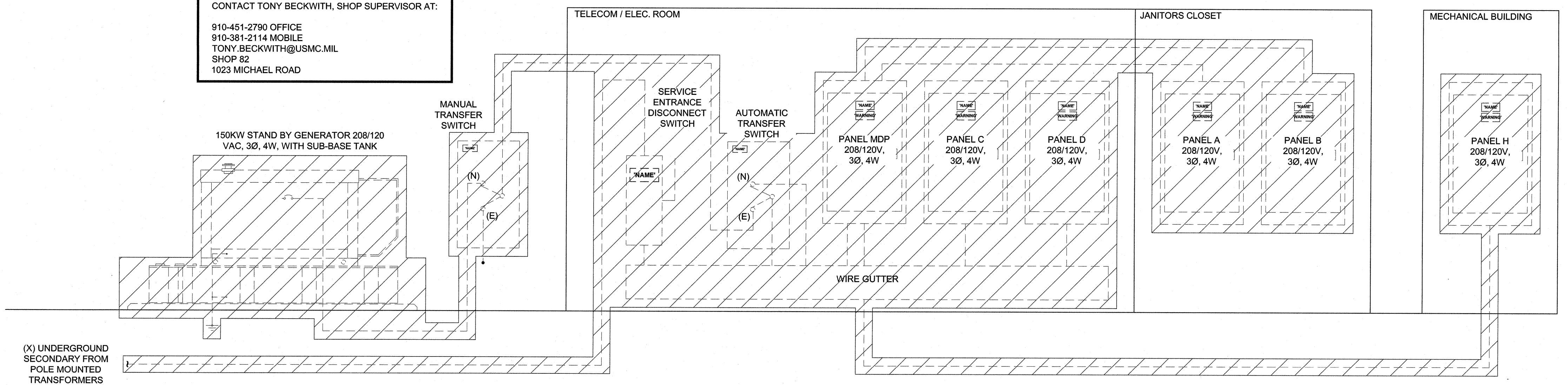
REVISIONS		
SYM.	DATE	APPROVED

- GENERATOR PAD NOTES:**
- FIELD VERIFY EXACT PAD SIZE REQUIREMENTS AND RACEWAY STUB-UP LOCATIONS WITH ENGINE-GENERATOR VENDOR PRIOR TO ROUGH-IN AND POURING OF PAD
 - SOIL UNDERNEATH PAD SHALL BE FREE OF ROOTS AND OTHER ORGANIC MATERIALS AND BE THOROUGHLY TAMPED TO PREVENT WASHING. EXERCISE CARE IN BACKFILLING AND GRADING AROUND PAD.
 - REINFORCE WITH #4 REBAR ON A 12" X 12" GRID TIED SECURELY 3" ABOVE BASE ON CLEAN CONCRETE OR BRICK SUPPORTS. END OF REBAR TO BE 3" FROM OUTSIDE EDGE OF PAD.
 - TOP SURFACE TO BE LEVEL, SMOOTH, AND BEVELED APPROXIMATELY 3/8".
 - ELECTRICAL CONTRACTOR SHALL VERIFY PAD DIMENSIONS WITH GENERATOR BEING INSTALLED.



1 GENERATOR DETAIL
NOT TO SCALE

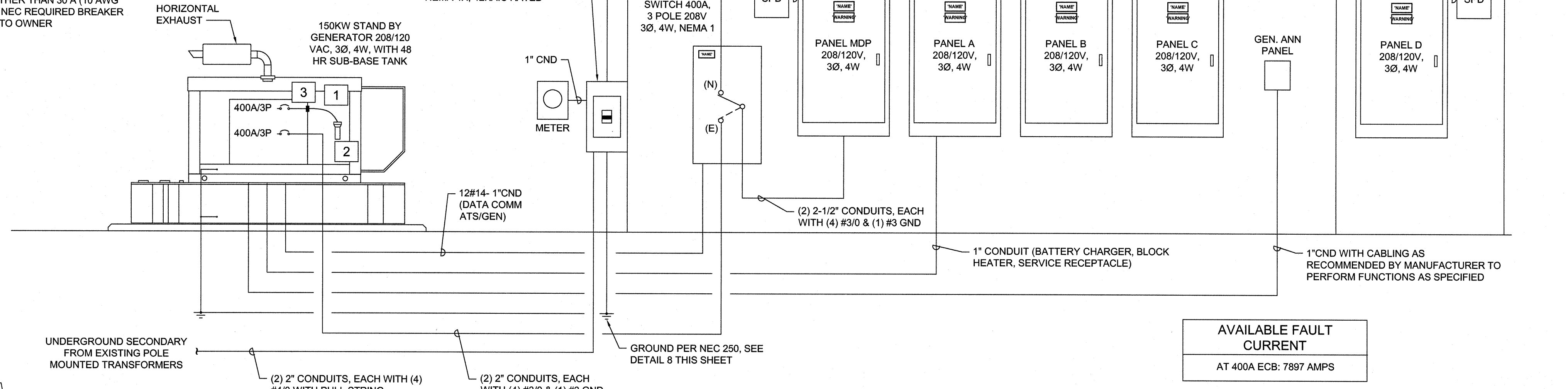
GENERATOR AND TRANSFER SWITCH TO BE DELIVERED TO THE OWNER FOR RE-USE. CONTACT TONY BECKWITH, SHOP SUPERVISOR AT:
910-451-2790 OFFICE
910-381-2114 MOBILE
TONY.BECKWITH@USMC.MIL
SHOP B2
1023 MICHAEL ROAD



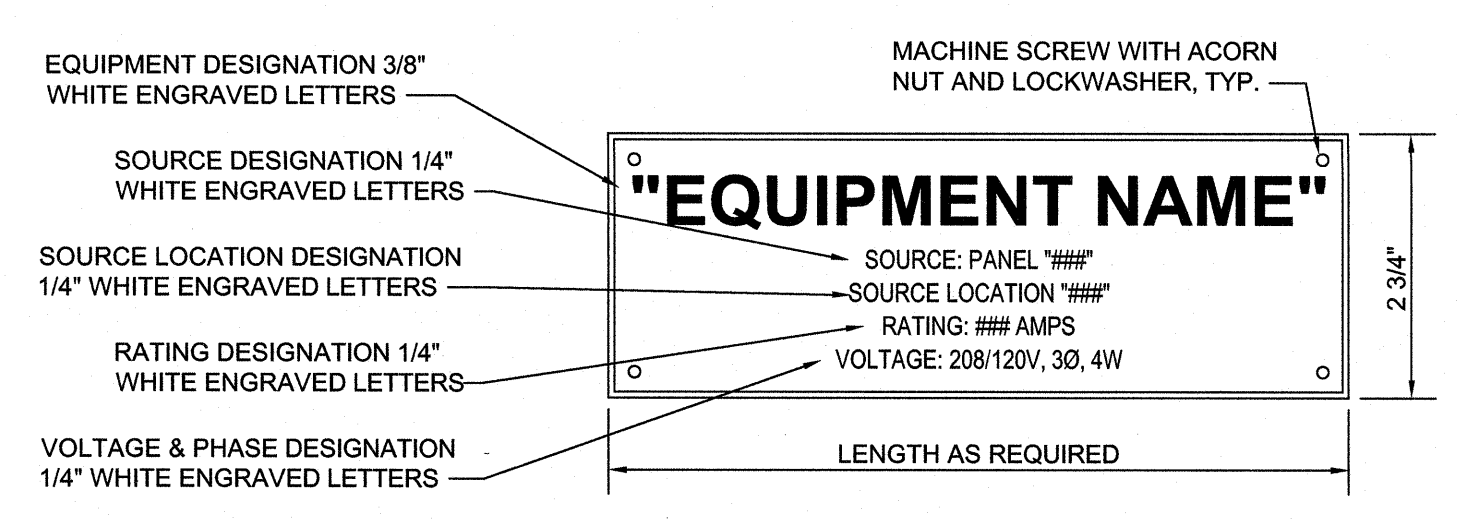
2 ELECTRICAL RISER DIAGRAM (DEMOLITION)
NOT TO SCALE

- RISER DIAGRAM KEYED NOTES**
- PROVIDE ONE 400A RATED FEMALE CAM-LOCK CONNECTORS PER PHASE FOR A TOTAL OF THREE. THE THREE PHASES SHALL BE COLORED BLACK, RED AND BLUE, AND PROVIDE ONE GREEN 400A RATED FEMALE CAM-LOCK CONNECTOR FOR GROUNDING. THESE CAM-LOCK DEVICES SHALL BE CONNECTED TO THE NEW LOAD BANK BREAKER WITH 4/0 AWG, TYPE PPE CABLE. PROVIDE PROTECTIVE CAPS FOR ALL CAM-LOCK DEVICES. CONTRACTOR SHALL ADD BASKET TYPE STRAIN RELIEF DEVICES TO EACH CABLE AFTER IT TRANSITIONS INTO THE WEATHERPROOF ENCLOSURE.
 - CABLE SHALL BE OF SUFFICIENT LENGTH TO MOUNT STRAIN RELIEF AND ENTIRE CAM-LOCK DEVICE OUTSIDE OF GENERATOR ENCLOSURE TO ALLOW CONNECTION OF MALE CAM-LOK.
 - CONTRACTOR SHALL PROVIDE SUFFICIENT NIPPLES WITH INSULATED BUSHINGS AS REQUIRED TO ALLOW THE CABLES TO PASS FROM THE BREAKER COMPARTMENT INTO THE WEATHERPROOF ENCLOSURE.

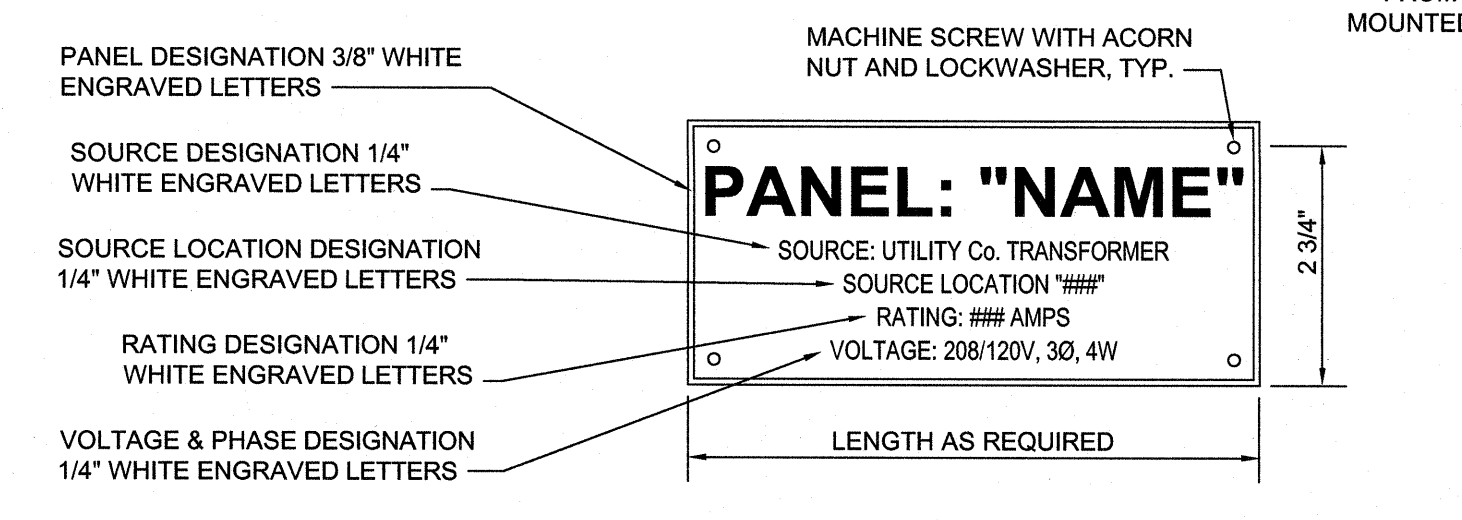
- NOTE:**
- SURGE PROTECTION DEVICE (SPD) SHALL BE MOUNTED TO KEEP LEADS AS SHORT AS POSSIBLE.
 - SPD'S SHALL BE INSTALLED ON A 3Ø, 3 POLE BREAKER IN PANELBOARD BEING PROTECTED. MAKE CONNECTIONS WITH 10 AWG CONDUCTORS AS PROVIDED BY SPD MANUFACTURER. IF SPD MANUFACTURER PROVIDES TERMINAL BLOCK ONLY (NO CONDUCTORS, OR CONDUCTORS OTHER THAN 10 AWG, THEN REFERENCE NEC TO DETERMINE BREAKER SIZE REQUIRED AND/OR REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR REQUIRED BREAKERS SIZE; NEC REQUIRED BREAKER SIZE IS BASED ON CONDUCTOR AWG. IF BREAKER REQUIRED IS OTHER THAN 3Ø A (10 AWG CONDUCTORS), PROVIDE NEC REQUIRED BREAKER AT NO ADDITIONAL COST TO OWNER.
- NOTE:**
- SHORT CIRCUIT CALCULATION COMPLETED ON 06/26/2019, BASED ON A 150KVA TRANSFORMER BANK @ 1.5% IMPEDANCE, AND 1.83 X/R. VERIFY ACTUAL PARAMETERS WITH UTILITY COMPANY PRIOR TO INSTALLATION.
 - SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED WITH MAX. AVAILABLE FAULT CURRENT, INCLUDING THE DATE THE FAULT CURRENT CALCULATIONS WERE PERFORMED, PER NEC 110.24



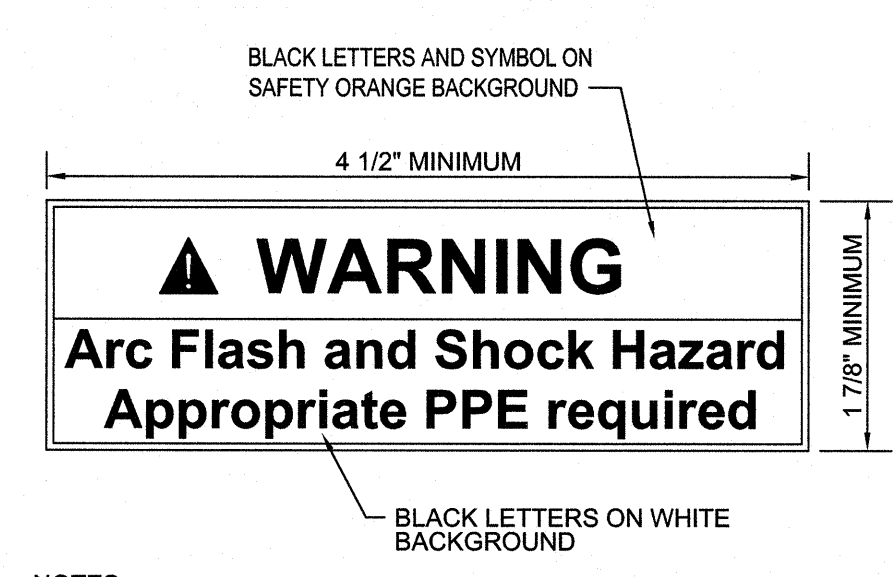
3 ELECTRICAL RISER DIAGRAM (NEW WORK)
NOT TO SCALE



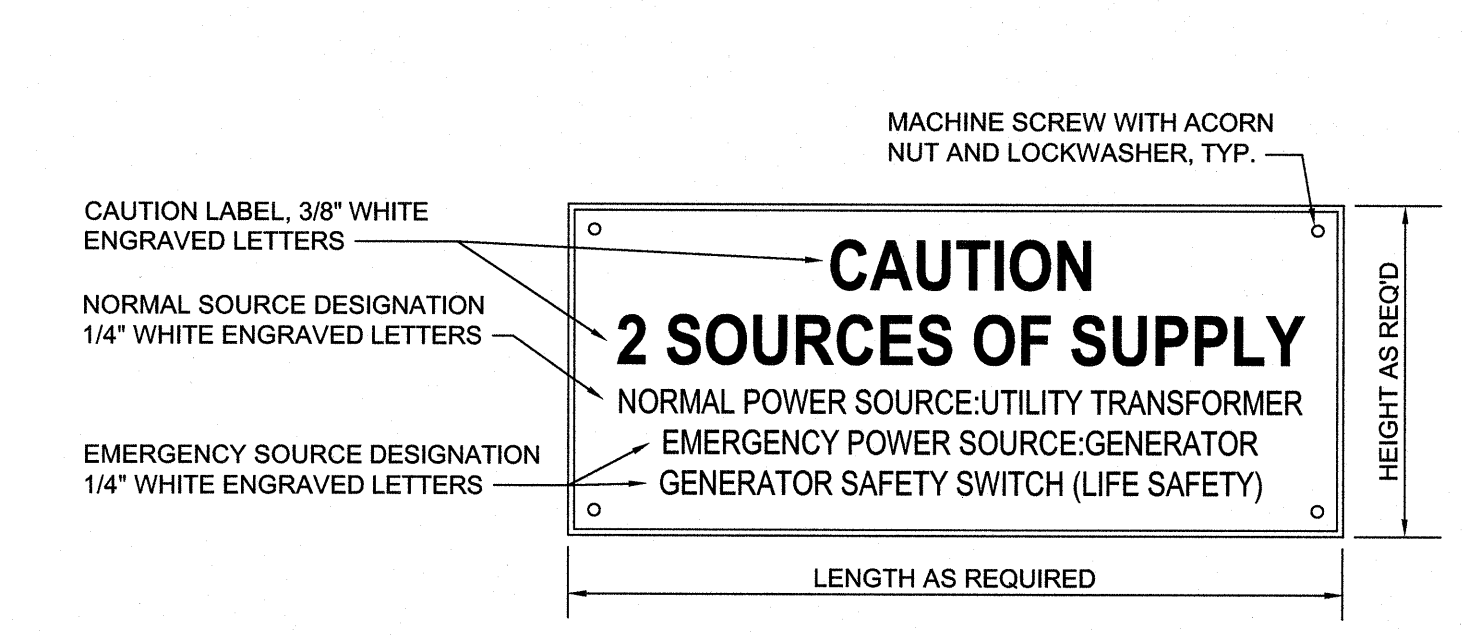
4 TYPICAL EQUIPMENT NAMEPLATE DETAIL
NOT TO SCALE



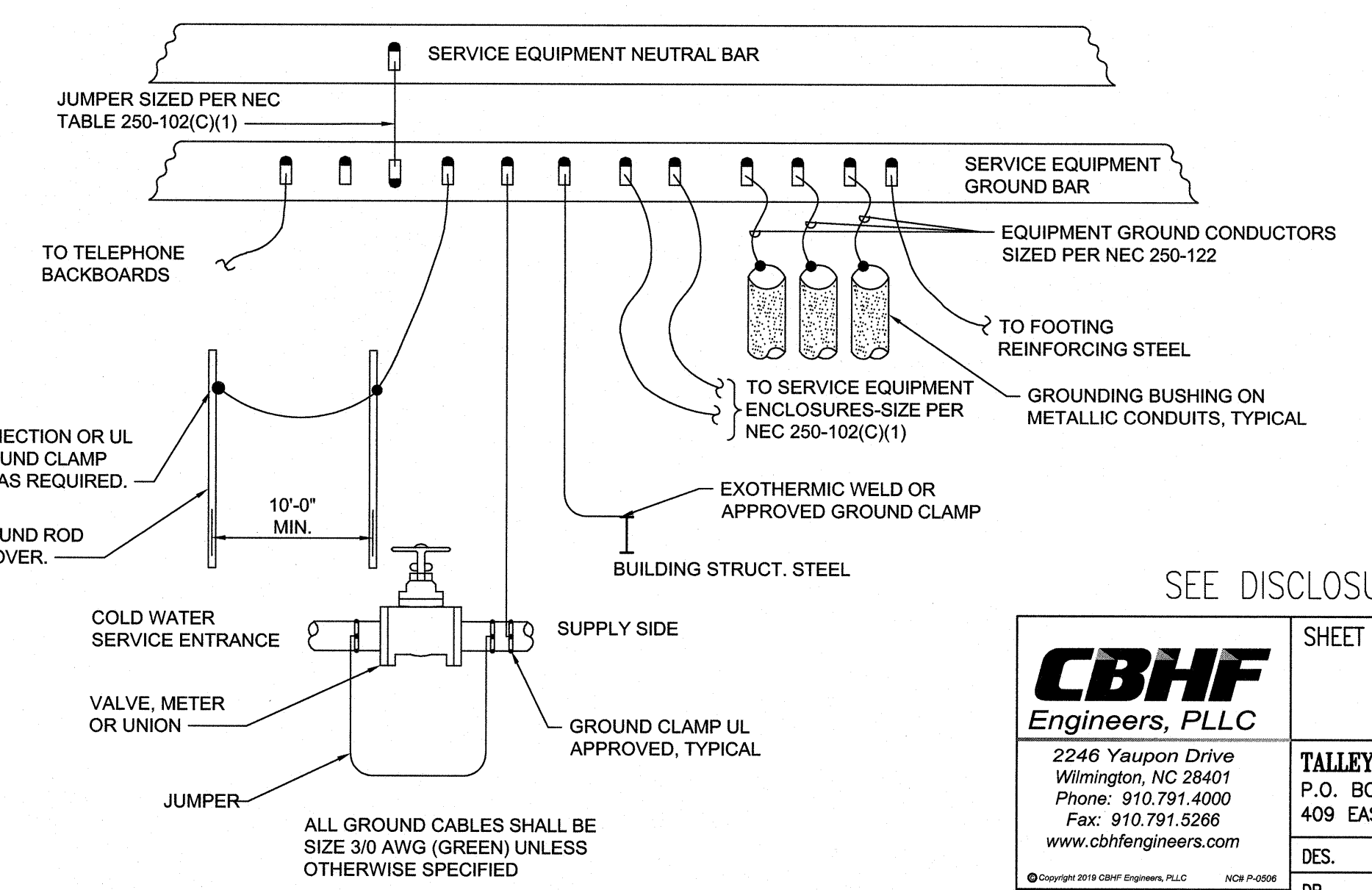
5 TYPICAL PANELBOARD NAMEPLATE DETAIL
NOT TO SCALE



6 ELECTRICAL EQUIPMENT WARNING LABEL DETAIL
NOT TO SCALE



7 CAUTION NAMEPLATE DETAIL
NOT TO SCALE



8 SERVICE GROUNDING DETAIL
NOT TO SCALE

SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

CBHF Engineers, PLLC 2246 Yaupon Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.5266 www.cbhfindesign.com	SHEET TITLE: ELECTRICAL DETAILS & RISER DIAGRAM		E-2
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150		
DES. RRD DR. RRD CHK. JFF SUBMITTED BY: DESIGN DR. T H BURTON, PE		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
APPROVED: [Signature] DATE: [Date]		INT. & EXT. REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA	
SATISFACTORY TO:		CODE IDENT. NO. 80091 NAVFAC DRAWING NO. 60024546 CONST. CONTR. NO. N40085-19-D-0025 SCALE: NOTED SPEC: 05-19-0025 SHEET 47 OF 59	

REVISIONS		
SYL	DATE	APPROVED

GENERAL NOTES

- ALL ELECTRICAL WORK SHALL BE IN FULL COMPLIANCE WITH NFPA 70, THE INTERNATIONAL BUILDING CODE, ALL LOCAL CODES AND ORDINANCES AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.
- THE ELECTRICAL CONTRACTOR SHALL HAVE A VALID NORTH CAROLINA PUBLIC UTILITY - ELECTRICAL CONTRACTORS LICENSE AND SHALL BE INSURED TO DO SUCH WORK IN THE STATE OF NORTH CAROLINA.
- ALL EQUIPMENT PROVIDED BY THE CONTRACTOR SHALL BE LISTED AND LABELED BY A NATIONALLY-RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, FOR THE CONDITIONS OF INSTALLATION. ALL MATERIAL, EQUIPMENT AND DEVICES SHALL BE NEW CURRENT PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH PRODUCTS. EQUIPMENT SHALL BE SUITABLE FOR ITS APPLICATION (E.G. WHEN INSTALLED OUTDOORS, IT SHALL BE WEATHERPROOF, ETC.).
- THE CONTRACTOR SHALL REVIEW THE ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS FOR WORK REQUIREMENTS, THE AMOUNT OF SPACE AVAILABLE FOR ELECTRICAL EQUIPMENT, AND LAYOUT HIS WORK IN A COMPATIBLE AND COMPLEMENTARY MANNER.
- THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THOROUGHLY FAMILIARIZING HIMSELF WITH ANY CONTRACTUAL REQUIREMENTS AS MAY BE SET FORTH IN THE OTHER DIVISIONS OF THE PROJECT SPECIFICATIONS.
- UNLESS SPECIFICALLY NOTED OTHERWISE, SYSTEMS PROVIDED OR INSTALLED BY THE CONTRACTOR SHALL BE COMPLETE AND FULLY FUNCTIONING AFTER INSTALLATION. INCIDENTAL COMPONENTS MAY NOT BE SHOWN, AND ALL WORK WHICH MAY BE REASONABLY IMPLIED AS BEING INCIDENTAL TO THIS WORK, BUT REQUIRED FOR THE PROPER OPERATION OF THE EQUIPMENT OR SYSTEM, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE GOVERNMENT. ADDITIONAL CIRCUITS SHALL BE INSTALLED WHEREVER NEEDED TO CONFORM TO THE SPECIFIC REQUIREMENTS OF EQUIPMENT.
- TEMPORARY POWER CONNECTIONS AS REQUIRED SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE GOVERNMENT. ALL TEMPORARY EQUIPMENT WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. THE CONTRACTOR SHALL PROVIDE DETAILS, METHODS, MATERIALS, ETC. TO THE CONTRACTING OFFICER PRIOR TO MAKING TEMPORARY CONNECTIONS. FURNISH AND INSTALL ALL EQUIPMENT AND MATERIALS INCLUDING CONTROL EQUIPMENT, MOTOR STARTERS, BRANCH AND FEEDER CIRCUIT BREAKERS, PANELBOARDS, TRANSFORMERS, ETC. FOR TEMPORARY POWER. COORDINATE WITH THE ELECTRICAL UTILITY AS REQUIRED.
- THE WORK SHALL INCLUDE COMPLETE TESTING OF ALL EQUIPMENT AND WIRING AT THE COMPLETION OF WORK AND ANY MINOR CORRECTIONS, CHANGES OR ADJUSTMENTS NECESSARY FOR THE PROPER FUNCTIONING OF THE SYSTEM AND EQUIPMENT.
- ALL EQUIPMENT SHOWN DOTTED OR DASHED IS BY OTHERS OR IS EXISTING, AS NOTED.
- ALL ELECTRICAL EQUIPMENT SHALL, AT ALL TIMES DURING CONSTRUCTION, BE ADEQUATELY PROTECTED AGAINST MECHANICAL INJURY, OR DAMAGE BY WATER AND/OR THE ELEMENTS. ELECTRICAL EQUIPMENT SHALL NOT BE STORED OUT OF DOORS, BUT SHALL BE STORED IN DRY PERMANENT SHELTERS. IF AN APPARATUS HAS BEEN DAMAGED, OR HAS BEEN SUBJECT TO POSSIBLE INJURY BY WATER OR THE ELEMENTS, SUCH DAMAGE SHALL BE REPLACED AT NO ADDITIONAL COST TO THE GOVERNMENT.
- DO NOT SCALE ELECTRICAL DRAWINGS. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS OF NEW CONSTRUCTION. FIELD VERIFY ALL EXISTING CONDITION DIMENSIONS.
- CIRCUIT LAYOUTS ARE NOT INTENDED TO SHOW THE NUMBER OF FITTINGS, OR OTHER INSTALLATION DETAILS. UNLESS NOTED OTHERWISE, THE EXACT ROUTING OF FEEDER AND BRANCH CIRCUIT RACEWAYS AND CABLES IS THE RESPONSIBILITY OF THE CONTRACTOR. RISER AND GENERAL CIRCUIT ARRANGEMENTS ARE SHOWN SCHEMATICALLY/DIAGRAMMATICALLY ONLY. THE CONTRACTOR SHALL ROUTE CONDUITS AS REQUIRED BY THE CONDITIONS OF THE INSTALLATION.
- UNLESS DIMENSIONED, DEVICE LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. ADJUST EXACT LOCATIONS AS REQUIRED TO SERVE THE INTENDED PURPOSE AND TO AVOID CONFLICTS AND INTERFERENCES WITH OTHER TRADES. EXACT DEVICE LOCATIONS SHALL BE AS INDICATED ON THE ARCHITECTURAL DRAWINGS OR AS DIMENSIONED. IF NOT SHOWN ON THE ARCHITECTURAL DRAWINGS OR DIMENSIONED ON THE ELECTRICAL DRAWINGS, VERIFY EXACT LOCATION WITH THE CONTRACTING OFFICER PRIOR TO ROUGH-IN.
- CONDUIT TERMINATING IN PRESSED STEEL BOXES SHALL HAVE DOUBLE LOCKNUTS AND INSULATED BUSHINGS. CONDUITS TERMINATING IN GASKETED ENCLOSURES SHALL BE TERMINATED WITH GROUNDING TYPE CONDUIT HUBS.
- THE DRAWINGS INDICATE THE NUMBER OF BRANCH CIRCUIT HOMERUN PHASE CONDUCTORS VIA ARROWHEADS. PROVIDE NEUTRAL, EQUIPMENT GROUND CONDUCTORS AS REQUIRED. ADDITIONAL CONDUCTORS REQUIRED FOR CONTROL SHALL BE INCLUDED EVEN IF NOT EXPLICITLY SHOWN.
- SEAL ALL CONDUIT OPENINGS THROUGH EXTERIOR BUILDING WALLS WATERTIGHT.
- ALL EXTERIOR WIRING DEVICES, BOXES, ETC. SHALL BE WEATHERPROOF. LIGHTING FIXTURES SHALL BE APPROPRIATELY RATED AND LISTED FOR THE ENVIRONMENT.
- ALL RACEWAYS SHALL BE CONCEALED WHERE POSSIBLE.
- ALL SURFACE MOUNTED RACEWAY MOUNTED ON THE INTERIOR OF THE BUILDING SHALL BE EMT. RGS SHALL BE USED WHERE THE POSSIBILITY EXISTS FOR PHYSICAL DAMAGE.
- INSTALL EXPOSED RACEWAYS PARALLEL TO OR AT RIGHT ANGLES TO NEARBY SURFACES OR STRUCTURAL MEMBERS, AND FOLLOW THE SURFACE CONTOURS AS MUCH AS POSSIBLE. NO DIAGONAL RUNS WILL BE ALLOWED. ALL CONDUITS SHALL BE RUN STRAIGHT AND TRUE. RUN PARALLEL OR BANKED RACEWAYS TOGETHER ON COMMON SUPPORTS WHERE PRACTICAL. MAKE BENDS IN PARALLEL OR BANKED RUNS FROM SAME CENTERLINE TO MAKE BENDS PARALLEL.
- PROVIDE AND PLACE ALL SLEEVES FOR CONDUITS PENETRATING WALLS, FLOORS, PARTITIONS, ETC. LOCATE ALL NECESSARY SLOTS FOR ELECTRICAL WORK AND FORM BEFORE CONCRETE IS POURED.
- PATCHING OF WATERPROOFED SURFACES SHALL RENDER THE AREA OF THE PATCHING COMPLETELY WATERPROOF.
- ALL MOTORS AND OTHER VIBRATING EQUIPMENT SHALL BE CONNECTED TO THE CONDUIT SYSTEM BY MEANS OF A SHORT SECTION (18 INCH MINIMUM) OF FLEXIBLE CONDUIT UNLESS OTHERWISE INDICATED. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED INSIDE THE FLEXIBLE CONDUIT AND TERMINATE AT THE LOAD END WITH AN APPROVED GROUNDING CLAMP OR LUG.
- SURFACE MOUNTED PANELBOARDS, JUNCTION, OUTLET AND PULL BOXES, RACEWAYS, ETC., INSTALLED ON EXTERIOR SURFACES OR INSIDE ON EXTERIOR WALLS SHALL BE SUPPORTED BY SPACERS TO PROVIDE A 1/4" MINIMUM CLEARANCE BETWEEN THE WALL AND EQUIPMENT.
- FINAL TYPED PANELBOARD DIRECTORIES INSTALLED IN THE PANELBOARD DOOR POCKET SHALL INCLUDE THE GENERAL DESCRIPTION SHOWN ON THE PANEL SCHEDULES ON THE DRAWINGS.
- CONDUCTOR SIZING IS BASED ON 75 DEGREE C. COPPER NEC RATINGS, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL VERIFY, PRIOR TO INSTALLATION OF CONDUCTORS OR CONDUIT FEEDING ANY EQUIPMENT, THE ELECTRICAL EQUIPMENT IS RATED FOR USE WITH 75 DEGREE C. WIRING. IF ANY EQUIPMENT IS RATED FOR USE WITH LESS THAN 75 DEGREE C. CONDUCTORS, THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER IMMEDIATELY FOR EVALUATION/CORRECTION.
- DO NOT PULL CONDUCTORS UNTIL THE CONDUIT SYSTEM IS COMPLETE IN EVERY DETAIL. IN THE CASE OF CONCEALED WORK, "COMPLETE" MEANS UNTIL ALL ROUGH PLASTERING OR MASONRY HAS BEEN COMPLETED.
- WHERE SIZE IS NOT SHOWN ON THE DRAWINGS, BRANCH CIRCUITS SHALL CONSIST OF #12 OR #10 AWG MINIMUM PHASE, NEUTRAL AND EQUIPMENT GROUND CONDUCTORS IN 3/4" MINIMUM RACEWAY.
- USE #10 AWG CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS WITH A TOTAL INSTALLED LENGTH GREATER THAN 75 FEET AND/OR BRANCH CIRCUIT HOMERUNS LONGER THAN 50 FEET. I.E.; #12 AWG INCREASED TO #10 AWG FOR RECEPTACLE BRANCH CIRCUITS OVER 75 FEET TOTAL LENGTH (INCLUDING THE HOMERUN SEGMENT) AND HOMERUNS OVER 50 FEET.
- KEEP CONDUCTOR SPLICES TO A MINIMUM. INSTALL SPLICES AND TAPES THAT POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN CONDUCTORS BEING SPLICED. USE SPLICE AND TAP CONNECTORS COMPATIBLE WITH CONDUCTOR MATERIAL. INSTALL CONDUCTORS AT EACH OUTLET WITH AT LEAST 6 INCHES OF SLACK. CONNECT OUTLETS AND COMPONENTS TO WIRING AND TO GROUND AS INDICATED AND INSTRUCTED BY THE MANUFACTURER.
- DO NOT SPLICE BRANCH CIRCUIT HOMERUNS WITHOUT THE PERMISSION OF THE CONTRACTING OFFICER. HOMERUNS SHALL BE CONTINUOUS FROM THE LAST OUTLET BOX TO THE SERVING PANELBOARD.
- DO NOT COMBINE BRANCH CIRCUIT HOMERUNS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS.
- TROUGH TAPS SHALL BE AT SWITCH AMPACITY, UNLESS NOTED OTHERWISE.
- INSTALL WIRING DEVICES AT HEIGHTS AS SHOWN ON THE DRAWINGS. ALSO COORDINATE MOUNTING HEIGHTS WITH THE ARCHITECTURAL DRAWINGS. IF CONFLICTING, ARCHITECTURAL DRAWINGS AND DETAILS SHALL GOVERN.
- PROVIDE GROUND FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL IN ACCORDANCE WITH THE NEC INCLUDING ALL EXTERIOR RECEPTACLES AND RECEPTACLES IN AREAS SUBJECT TO POSSIBLE WET CONDITIONS. ALL RECEPTACLES INSTALLED WITHIN 6 FEET OF A SINK SHALL BE GFI PROTECTED.
- CONNECT BATTERY PACK TYPE EMERGENCY AND EXIT LIGHTING FIXTURES AND FLOURESCENT EMERGENCY BATTERY (BODINE TYPE) BALLASTS TO THE UNSWITCHED LIGHTING CIRCUIT SERVING THE SPACE LIGHTED BY THE EMERGENCY AND EXIT FIXTURES. THESE CONNECTIONS ARE INTENTIONALLY NOT SHOWN TO MAINTAIN DRAWING FOR CLARITY.
- ADJACENT SWITCHES SHALL BE GANGED. INSTALL BARRIERS BETWEEN UNLIKE VOLTAGE SECTIONS.
- BEFORE COMMENCING WORK OR ORDERING MATERIALS, THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND VERIFY THE NAMEPLATE RATINGS OF ALL EQUIPMENT (MOTORS, HEATERS, COMPRESSORS, ETC.) AND ADJUST THE RATINGS OF THE ELECTRICAL EQUIPMENT (SWITCHES, FUSES, CIRCUIT BREAKERS, FEEDERS, ETC.) AS APPROPRIATE TO SERVE THIS EQUIPMENT.
- ENERGIZE EQUIPMENT ONLY AFTER OBTAINING PERMISSION FROM THE CONTRACTOR PROVIDING THE EQUIPMENT.
- UNLESS SPECIFICALLY NOTED OTHERWISE, THE CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL UTILIZATION EQUIPMENT SHOWN ON THE DRAWINGS. VERIFY THE TYPE OF FINAL CONNECTION AND PROVIDE APPROPRIATE WIRING METHOD. THE CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL AND PLUMBING EQUIPMENT, PRIOR TO ORDERING OR INSTALLATION OF ANY EQUIPMENT, TO VERIFY MECHANICAL AND PLUMBING EQUIPMENT REQUIREMENTS ARE PROVIDED IN THE ELECTRICAL DESIGN. THE CONTRACTOR WILL NOT BE COMPENSATED FOR COSTS ASSOCIATED WITH CHANGING THE ELECTRICAL SYSTEMS TO MATCH UTILIZATION EQUIPMENT, EVEN IF THE ELECTRICAL WORK IS INSTALLED PER THE ELECTRICAL DRAWINGS.
- THE CONTRACTORS SHALL FURNISH ALL STARTERS AND CONTROLS FOR THEIR EQUIPMENT. THE CONTRACTOR SHALL PROVIDE ALL SAFETY SWITCHES, SHALL MOUNT STARTERS AND PROVIDE WIRING AND CONNECTIONS TO LINE SIDE OF STARTERS. THE CONTRACTOR SHALL PROVIDE LOAD SIDE WIRING AND CONNECTIONS TO MECHANICAL AND PLUMBING EQUIPMENT. FOR RESISTANCE TYPE LOADS WHERE STARTERS OR CONTRACTORS ARE NOT REQUIRED, THE CONTRACTOR SHALL PROVIDE ALL POWER WIRING AND CONNECTIONS COMPLETE TO EQUIPMENT. THE MECHANICAL AND PLUMBING CONTRACTORS SHALL PROVIDE ALL CONTROL WIRING AND CONNECTIONS AND DEVICES FOR THEIR EQUIPMENT.
- THE CONTRACTOR SHALL COORDINATE ALL EQUIPMENT TERMINATIONS, PLUGS AND CORDSSETS WITH VENDOR EQUIPMENT AND VERIFY ALL DEVICE LOCATIONS FOR SPECIALTY EQUIPMENT WITH CASEWORK PRIOR TO ROUGH-IN.
- THE LAYOUT AND PLACEMENT OF ELECTRICAL DISTRIBUTION EQUIPMENT IN ELECTRICAL AND MECHANICAL EQUIPMENT ROOMS IS BASED ON PUBLISHED EQUIPMENT SIZES AND SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. DEVIATIONS FROM CONFIGURATIONS SHOWN IS THE RESPONSIBILITY OF THE CONTRACTOR. PROVIDE NATIONAL ELECTRIC CODE REQUIRED CLEARANCES FOR ALL ELECTRICAL EQUIPMENT, PANELBOARDS, TRANSFORMERS, SAFETY SWITCHES, SWITCHBOARDS, ETC. COORDINATE RESOLUTION OF CONFLICTS WITH OTHER TRADES. ADVISE THE CONTRACTING OFFICER OF CONFLICTS BEFORE ROUGH-IN.
- INSTALLATION INFORMATION PACKED WITH LIGHTING FIXTURES, DEVICES AND EQUIPMENT SHALL BE RETAINED FOR INCLUSION IN THE OPERATIONS AND MAINTENANCE MANUALS.
- THE CONTRACTOR SHALL PERFORM ALL CUTTING IN STRAIGHT LINES USING 90 DEGREE ANGLES AS MUCH AS POSSIBLE TO INSTALL ALL EQUIPMENT AS REQUIRED. CONTRACTOR SHALL REESTABLISH ALL FINISHES TO THEIR ORIGINAL CONDITION WHERE CUTTING AND PATCHING OCCUR. ALL CUTTING AND PATCHING SHALL BE DONE IN A THOROUGHLY WORKMANSHIP MANNER. SAW CUT CONCRETE AND MASONRY PRIOR TO BREAKING OUT SECTIONS. ALL PATCHING MATERIALS AND WORKMANSHIP SHALL BE PERFORMED BY TRADESMEN EXPERIENCED IN THAT WORK. ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE CONTRACTING OFFICER.
- INSTALL WORK AT SUCH TIME AS TO REQUIRE THE MINIMUM AMOUNT TO CUTTING AND PATCHING.
- SAFETY: COMPLY WITH OSHA AND NEC ARC FLASH PROTECTION REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING OVERLOADS FOR EACH MOTOR RELOCATED OR INSTALLED DURING THIS PROJECT. OVERLOADS SHALL BE SIZED PER NAMEPLATE DATA OF EQUIPMENT.

PANEL MDP

TYPE:	208	120	V.	3	PH.	4	WIRE	PROVIDE IF	XX	EQUIP. GROUND BUS
BOLT-ON	MOUNT:	WALL						CHECKED:	XX	NEUTRAL BUS
	FEED:	TOP								GUTTER TAPS
										SUB-FEED LUGS
LOAD SERVED	LOAD VA	CRK #	CRK #	A	B	C	CRK #	CRK #	LOAD VA	LOAD SERVED
PANEL A	6,088	1003	1	10,544			2	1003	4,458	PANEL C
	6,745			11,759					4,944	
	4,972								8,946	
PANEL B	5,363	1003	3	8,476			4	1003	3,083	PANEL D
	4,446			7,829					3,983	
	4,993								1,446	
DHP01	4,035	603	5	8,070			6	603	4,035	DHP02
	4,035			8,070					4,035	
	4,035								4,035	
SPD		303	7							SPACE
NOTE:	27,090	27,333	25,016	TOTAL VOLT AMPS			400	A. BUS (COPPER)		
				228	228	228	CONN. AMPS	400	A. MAIN LUGS	
										22 KAC MIN.

PANEL A

TYPE:	208	120	V.	3	PH.	4	WIRE	PROVIDE IF	XX	EQUIP. GROUND BUS	
BOLT-ON	MOUNT:	SURFACE						CHECKED:	XX	NEUTRAL BUS	
DOOR-IN-DOOR WITH-IN HINGED TRIM FRONT CO	ABEED:	TOP								GUTTER TAPS	
										SUB-FEED LUGS	
LOAD SERVED	LOAD VA	CRK #	CRK #	A	B	C	CRK #	CRK #	LOAD VA	LOAD SERVED	
EW11	2,250	492	1	3,115			2	152	865	DOAS01	
	2,250			3,115					865		
CP1	125	151	5				6	152	865	DOAS02	
DAH01	488	152	7	1,334			8	1	865		
	488			1,791			10	202	1,323	EH01	
							12	1	1,323		
BC001 & 02	259	152	13	619			14	201	360	RECS: JAN R17	
	259			979			16	201	720	RECS: MECH R132	
DOOR ACCESS CONTROL SYSTEM	500	201	17				18	201	360	RECS: ELEC R112	
	500			720			20	201	720	RECS: EXTERIOR	
SPARE	201	21		180			21	201	180	PV01	
SPARE	201	23		1,000	24	201	1,000	GENERATOR BLOCK HEATER			
SPARE	201	25	300		26	201	300	GENERATOR BATTERY CHARGER			
SPARE	201	27	180		28	201	180	GENERATOR SERVICE RECEPTACLE			
SPARE	201	29			30	201		SPARE			
SPARE	201	31			32	201		SPARE			
SPARE	201	33			34	201		SPARE			
SPARE	201	35			36	201		SPARE			
SPARE	201	37			38	201		SPARE			
SPARE	201	39			40	201		SPARE			
TRNS PANEL (NOTE 1)	500	201	39		500	40	201		500	SPARE	
TRNS PANEL (NOTE 1)	500	201	41		6,088	6,745	4,972	TOTAL VOLT AMPS		100	A. BUS (COPPER)
					51	51	50	CONN. AMPS	100	A. MAIN LUGS	
NOTE:											10 KAC MIN.

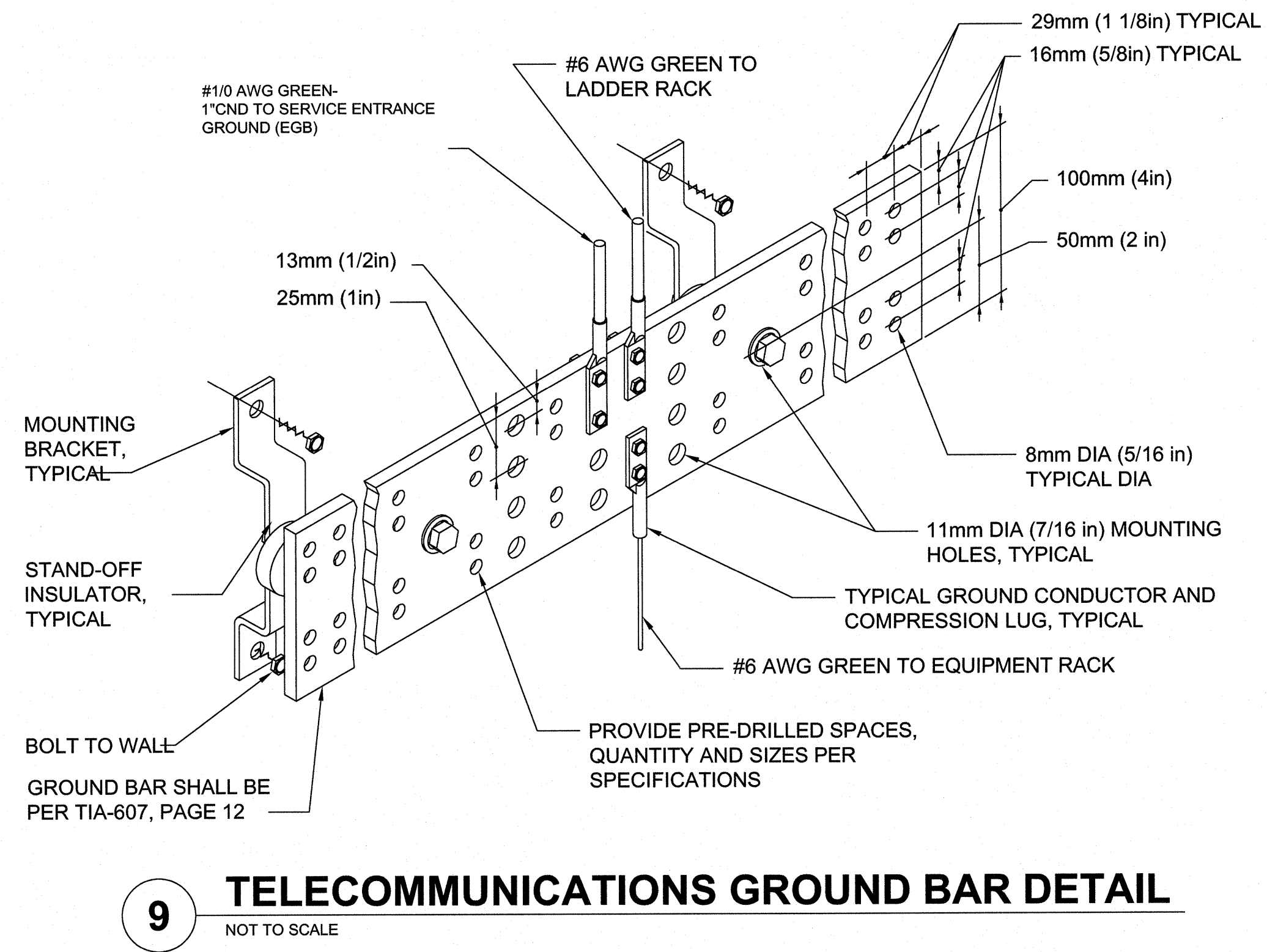
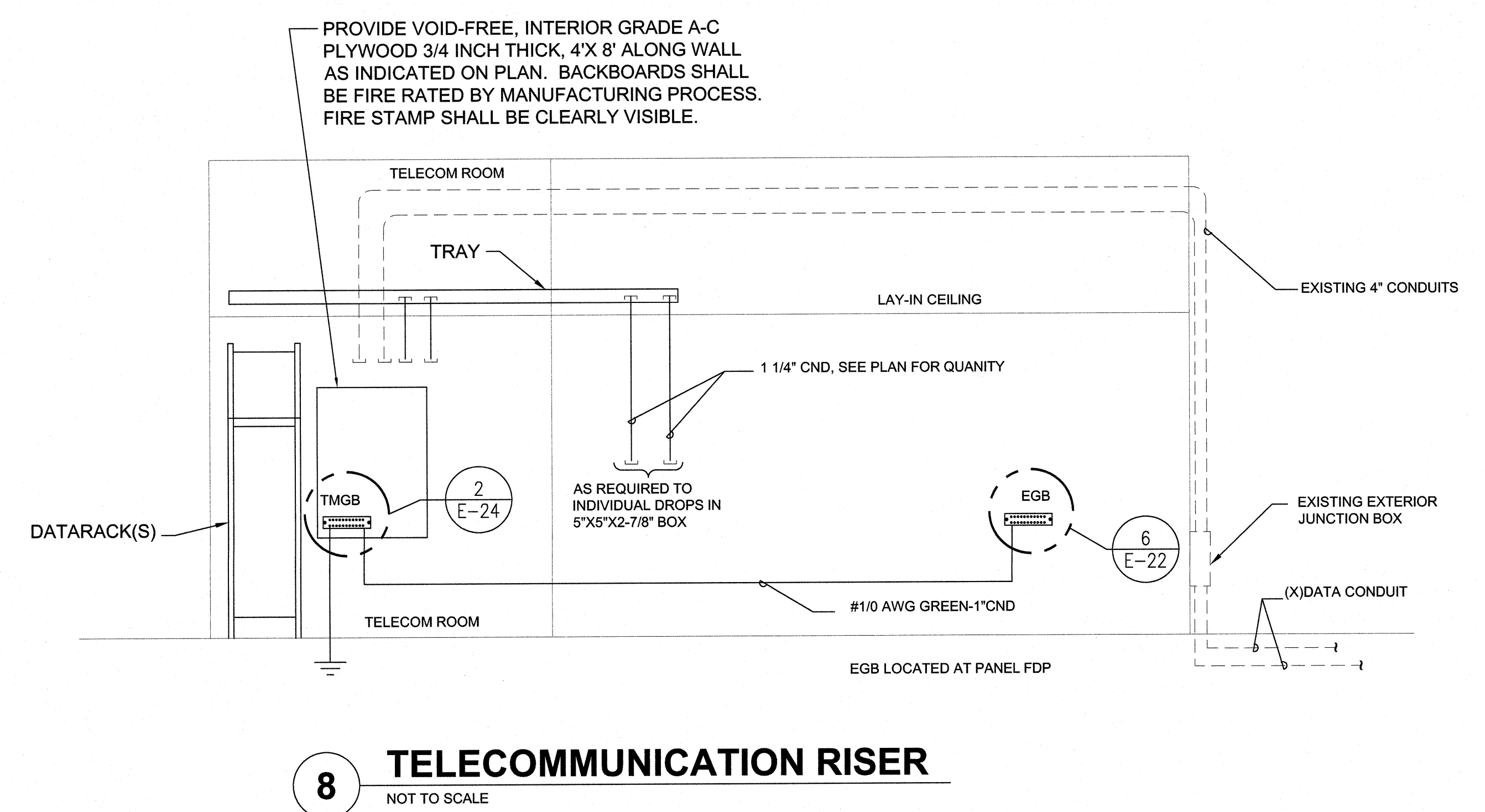
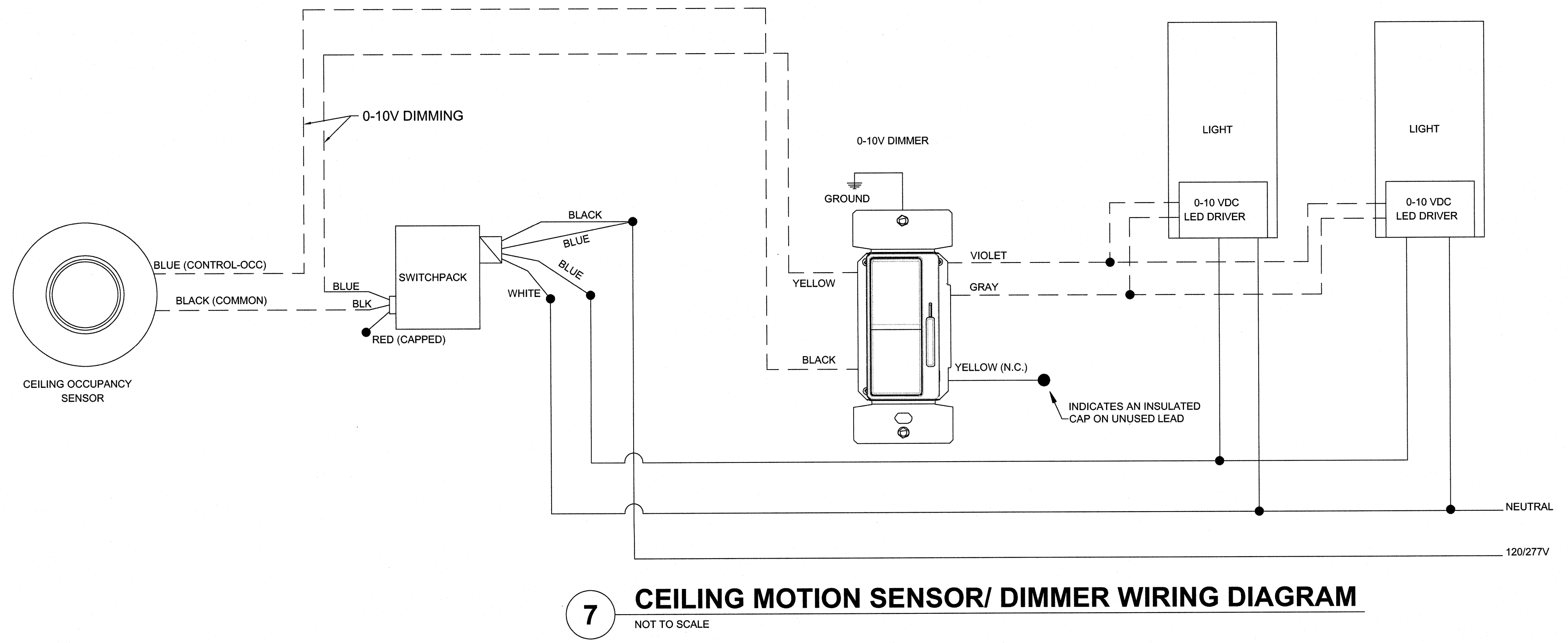
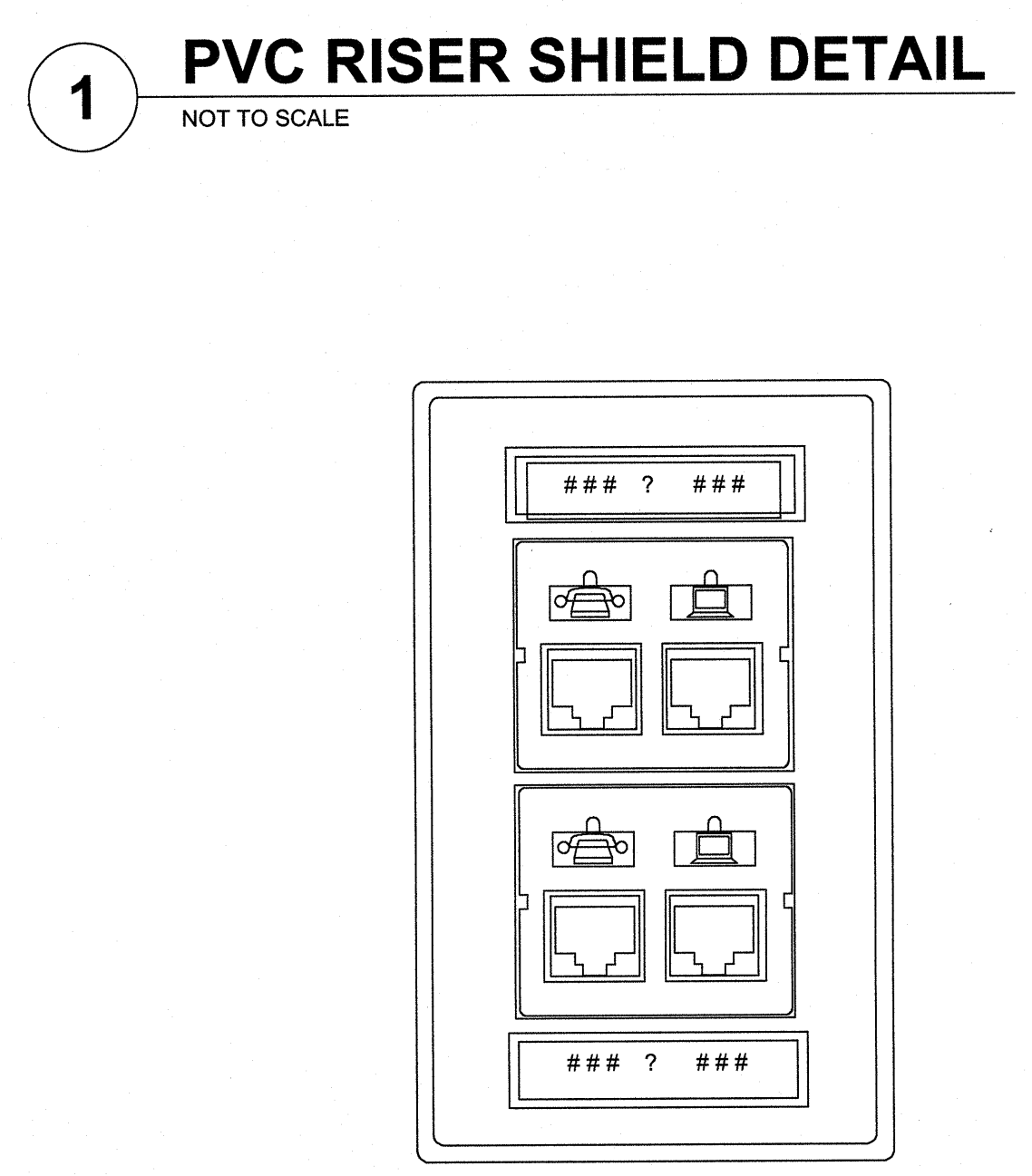
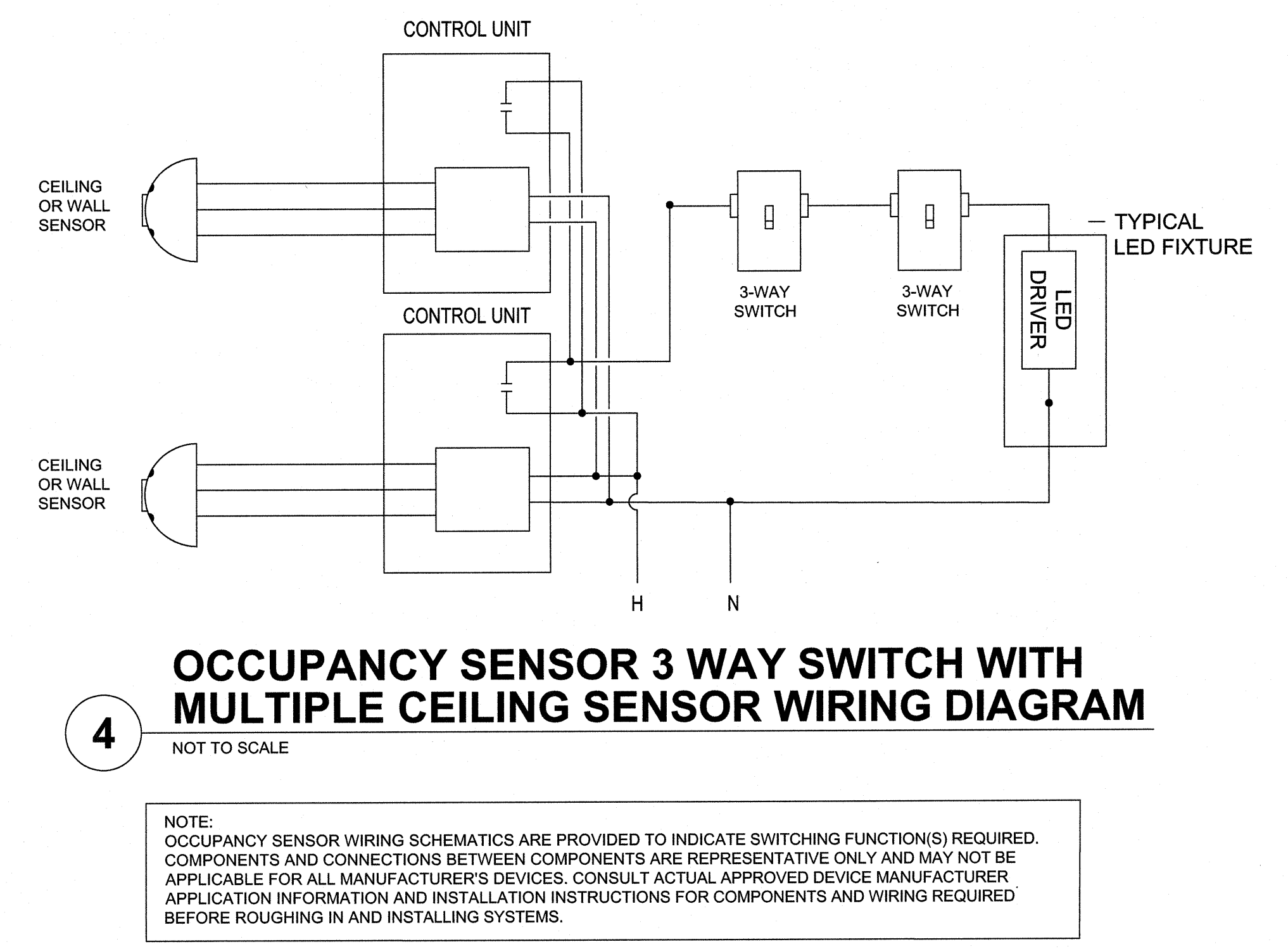
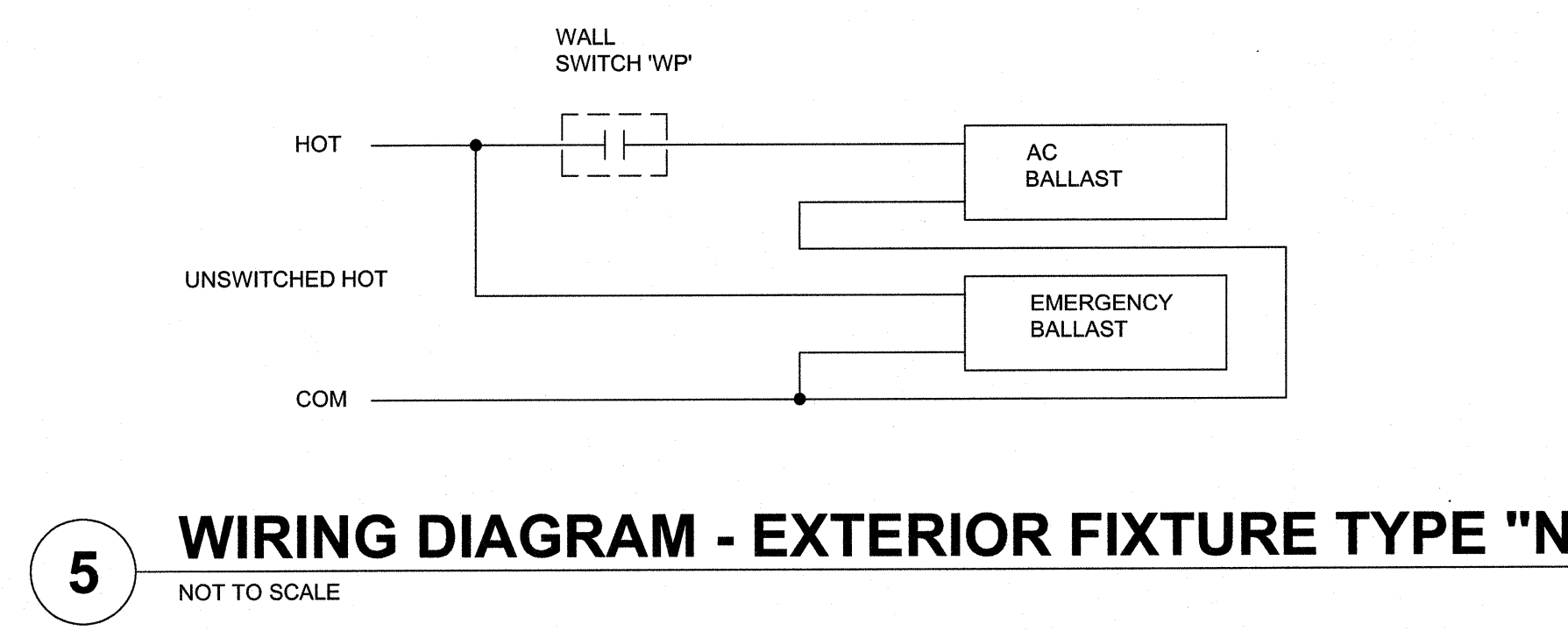
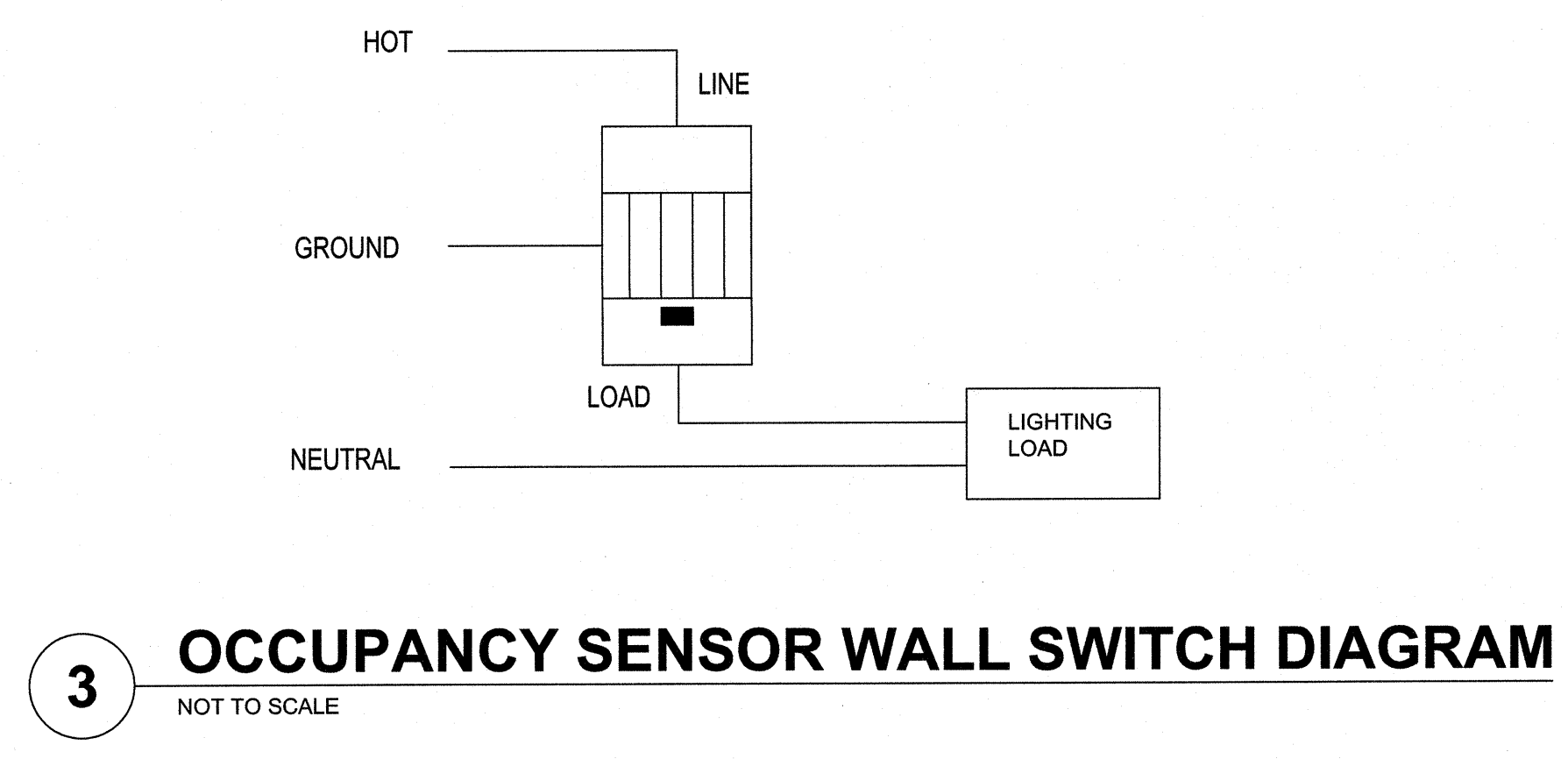
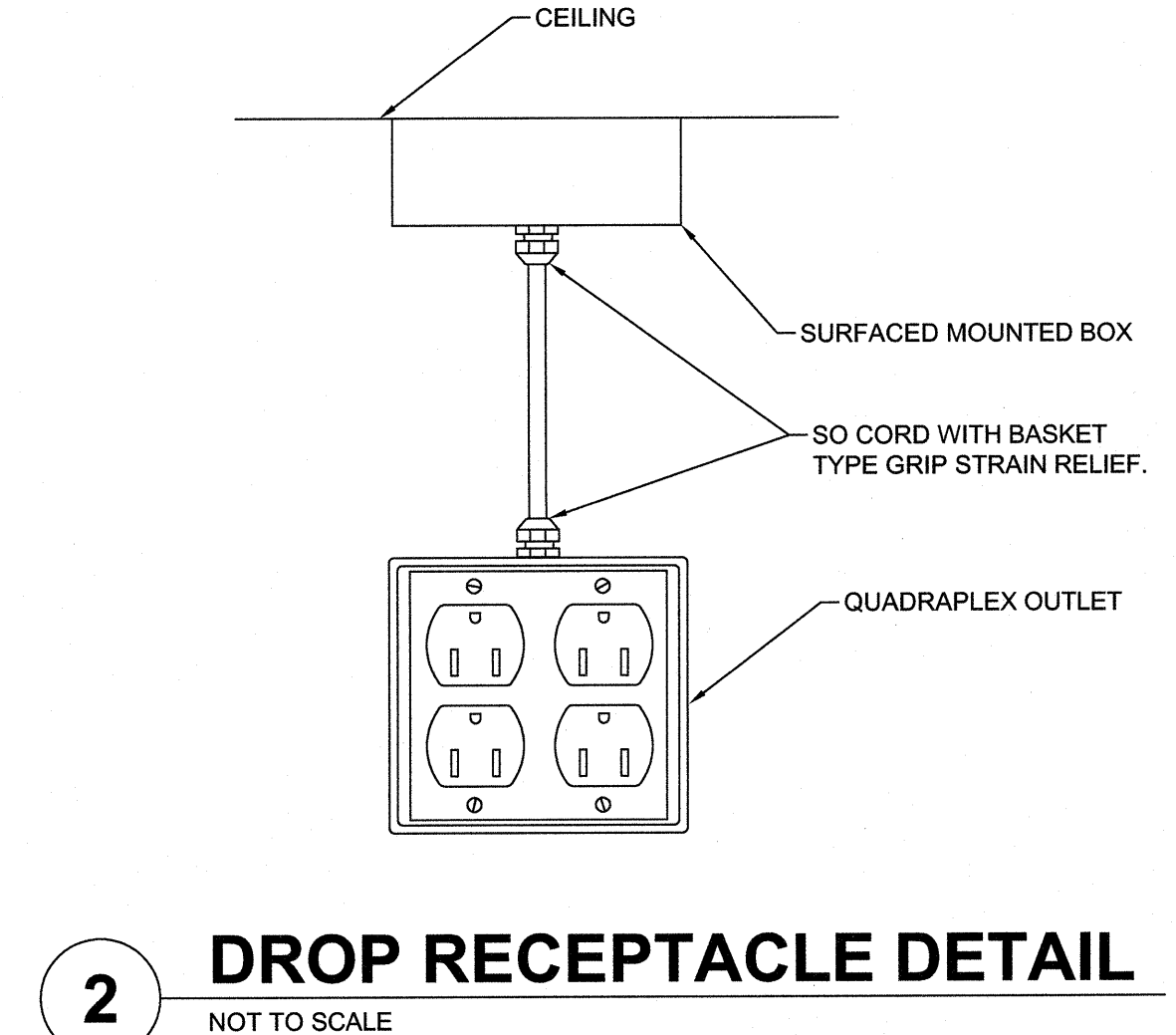
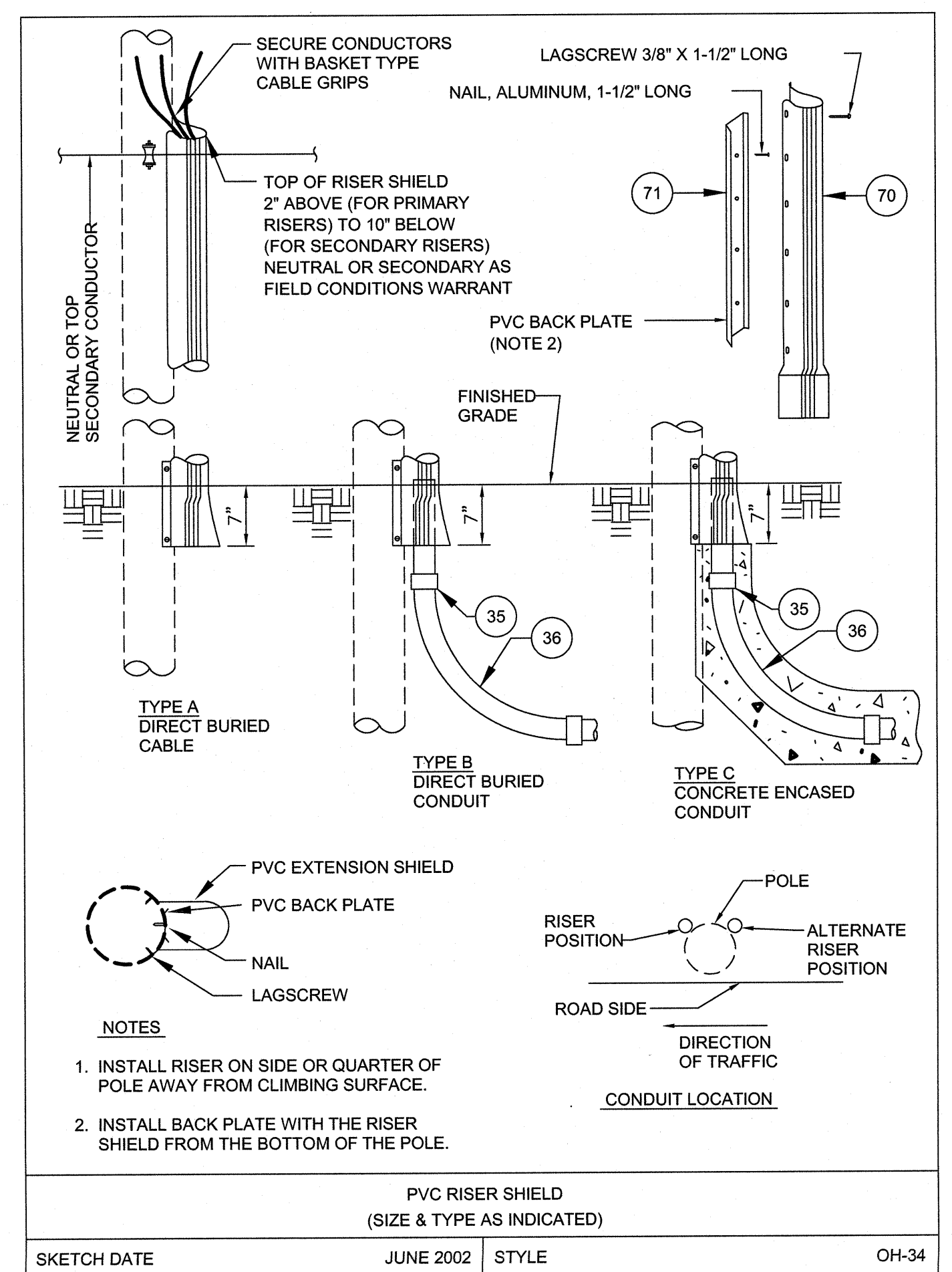
PANEL B

TYPE:	208	120	V.	3	PH.	4	WIRE	PROVIDE IF	XX	EQUIP. GROUND BUS	
BOLT-ON	MOUNT:	SURFACE						CHECKED:	XX	NEUTRAL BUS	
DOOR-IN-DOOR WITH-IN HINGED TRIM FRONT CO	ABEED:	TOP								GUTTER TAPS	
										SUB-FEED LUGS	
LOAD SERVED	LOAD VA	CRK #	CRK #	A	B	C	CRK #	CRK #	LOAD VA	LOAD SERVED	
RECS: CORR R116, OFFICE R121, OFFICE R122	900	201	1	1,800			2	201	720	RECS: OFFICE R125 & OFFICE R126	
RECS: OFFICE R122 & OFFICE R123	1,080	201	3		1,800		4	201	720	RECS: OFFICE R126, CORR. R115, OFFICE R127	
RECS: OFFICE 120	900	201	5		1,800		6	201	900	RECS: OFFICE R128 & OFFICE R127	
RECS: OFFICE 120	540	201	7	1,620			8	201	1,080	RECS: CORR. R115, OFFICE R127, OFFICE R128	
RECS: OFFICE R130	540	201	9		1,080		10	201	540	RECS: HEAD RRT 14, R116, AND R119	
RECS: OFFICE R130	360	201	11		720		12	201	360	TELEVISION CONFERENCE R131	
RECS: CONF R131 ENTRY R129	360	201	13	720			14	201	360	TELEVISION CONFERENCE R131	
RECS: CONFERENCE R131	720	201	15		1,080		16	201	360	TELEVISION CONFERENCE R131	
RECS: FLOOR BOXES CONFERENCE R131	720	201	17		1,219		18	152	499	DAH11 & 12	
RECS: CONFERENCE R131	360	201	19	936			20	1	499		
SPARE	201	21			63		22	152	63	DAH06-1, 06-B, 06-19	
RECS: FLOOR BOXES CONFERENCE R131	720	201	23		783		24	1	63		
EW11 (NOTE 1)	400	201	25	483			26	152	63	DAH05, 06, 07	
TELEVISION CONFERENCE R131	360	201	27		423		28	1	63		
TELEVISION OFFICE R120	360	201	29		471		30	152	111	DAH02, 03, A, 03-B, 04	
SPARE	201	31	111				32	1	111		
SPARE	201	33					34	201		SPARE	
SPARE	201	35					36	201		SPARE	
SPARE	201	37					40	201		SPARE	
SPARE	201	41					42	201		SPARE	
NOTE:					5,393	4,440	4,993	TOTAL VOLT AMPS		100	A. BUS (COPPER)
					43	37	42	CONN. AMPS	100	A. MAIN LUGS	
											10 KAC MIN.

PANEL C

TYPE:	208	120	V.	3	PH.	4	WIRE	PROVIDE IF	XX	EQUIP. GROUND BUS
BOLT-ON	MOUNT:	SURFACE						CHECKED:	XX	NEUTRAL BUS
DOOR-IN-DOOR WITH-IN HINGED TRIM FRONT CO	ABEED:	TOP								GUTTER TAPS
										SUB-FEED LUGS
LOAD SERVED	LOAD VA	CRK #	CRK #	A	B	C	CRK #	CRK #	LOAD VA	LOAD SERVED
RECS: OFFICE R106	720	201	1	1,620			2	201	900	RECS: OFFICE R106
RECS: OFFICE R106, CORR. R108	900	201	3		1,800		4	201	900	RECS: OFFICE R106, CORRIDOR R102
RECS: OFFICE R107A, OFFICE R107B	1,080	201	5		1,800		6	201	720	RECS: OFFICE R103, CORRIDOR R102
RECS: OFFICE R110A, OFFICE R110B	1,080	201	7	1,620			8	201	540	RECS: OFFICE R113
RECS: ENTRY R101 & 101A	360	201	7		1,360		10	201	1,000	REF. BREAK/VENTING R113 (NOTE 1)
RECS: BREAK/VENTING R113	540	201	11		1,040		12	201	500	VENTING MACHINE BREAK/VENTING R113
RECS: BREAK/VENTING R113	360	201	13	860			14	201	50	

REVISIONS		
SYN.	DATE	APPROVED



SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

CBHF Engineers, PLLC 2246 Yaupon Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.5266 www.cbhfindesign.com	SHEET TITLE:	ELECTRICAL DETAILS	E-4
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
DES: RRD	DR: RRD	INT. & EXT. REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA	
CHK: JPF	SUBMITTED BY:	NAVFAC DRAWING NO. 60024548	
DESIGN DIR: T H BURTON, PE	APPROVED:	DATE: F 80091	CONST. CONTR. NO. N40085-19-D-0025
SATISFACTORY TO:	DATE:	SCALE: NOTED	SPEC: 05-19-0025

SH-2417

REVISIONS		
SYM.	DATE	APPROVED

LUMINAIRE REQUIREMENTS:

- CONSTRUCTION - COMPONENTS ARE DIE-FORMED FOR DIMENSIONAL CONSISTENCY AND PAINTED AFTER FABRICATION WITH A POLYESTER POWDER PAINT FOR IMPROVED PERFORMANCE AND PROTECTION. THE REFLECTOR IS FINISHED WITH A HIGH REFLECTIVE MATTE WHITE POWDER PAINT FOR IMPROVED AESTHETICS AND INCREASED LIGHT DIFFUSION. END PLATES CONTAIN EASY-TO-POSITION INTEGRAL T-BAR CLIPS FOR SECURELY ATTACHING THE LUMINAIRE TO THE T-GRID. FOR ADDITIONAL T-GRID SECURITY, OPTIONAL SCREW ON T-BAR CLIPS ARE AVAILABLE. DIFFUSERS ARE EXTRUDED FROM IMPACT MODIFIED ACRYLIC FOR INCREASED DURABILITY. LED BOARDS AND DRIVERS ARE ACCESSIBLE FROM THE PLENUM.
- OPTICS - VOLUMETRIC ILLUMINATION IS ACHIEVED BY CREATING AN OPTIMAL MIX OF LIGHT TO WALLS, PARTITIONS AND VERTICAL AND HORIZONTAL WORK SURFACES - RENDERING THE INTERIOR SPACE, OBJECTS AND OCCUPANTS IN A MORE BALANCED, COMPLIMENTARY LUMINOUS ENVIRONMENT. HIGH PERFORMANCE EXTRUDED ACRYLIC DIFFUSERS CONCEAL LEDS AND EFFICIENTLY DELIVER LIGHT IN A VOLUMETRIC DISTRIBUTION. FOUR DIFFUSER CHOICES AVAILABLE - CURVED AND SQUARE DESIGNS WITH LINEAR PRISMS OR A SMOOTH FROSTED FINISH.
- ELECTRICAL - LONG-LIFE LEDS, COUPLED WITH HIGH-EFFICIENCY DRIVERS, PROVIDE SUPERIOR QUANTITY AND QUALITY OF ILLUMINATION FOR EXTENDED SERVICE LIFE. FIXTURE SHALL BE RATED TO DELIVER L80 PERFORMANCE FOR 50,000 HOURS.
- LED DRIVER - DRIVER DELIVERS FULL RANGE DIMMING FROM 0 - 10V CONTROL SIGNAL.
- INSTALLATION - GRID INTERFACING ARRANGEMENT PROVIDES MOUNTING INTO STADARD 1" AND 9/16" TEE BAR OR SCREW SLOT GRIDS. 9/16" ALLOWS FIXTURE TRIM TO HANG LEVEL WITH ARCHITECTURAL CEILING TILES. DRYWALL CEILING ADAPTERS AVAILABLE. SUITABLE FOR DAMP LOCATION.
- LISTINGS - CSA CERTIFIED TO MEET US AND CANADIAN STANDARDS. PATENTS PENDING. DLC CERTIFIED TEST TO LM80 STANDARD.
- SEE SCHEDULE FOR DELIVERED LUMEN PACKAGE, 3500K

DIRECT/INDIRECT RECESSED 2' X 4' LED

1 TYPE A & B DETAIL
NOT TO SCALE

LUMINAIRE REQUIREMENTS:

- HOUSING - 2NOMINAL 1 1/4" X 1 3/4" RECTANGULAR HOUSING FORMED FROM COLD-ROLLED STEEL.
- END CAPS - DIE-CAST END CAPS ARE MECHANICALLY ATTACHED WITH NO EXPOSED FASTENERS. FLAT END CAPS STANDARD, SCULPTURED END CAPS OPTIONAL.
- COLOR - HOUSING AND END CAPS IS WHITE, BLACK OR PAINTED ALUMINUM.
- LUMINAIRE LENGTH - 4' AND 8' LENGTHS IS A SINGLE SECTION FOR EXACT SUSPENSION SPACING OF 4' OR 8'. FOR TOTAL LUMINAIRE LENGTH, ADD 5/8" FOR EACH FLAT END CAP AND 4" FOR EACH SCULPTURED END CAP. USING INTERNAL JOINERS, 4' AND 8' SECTIONS CAN BE JOINED TO FOR LONGER ROWS.
- SOURCE - TWO LED LUMEN PACKAGES AND THREE AVAILABLE COLOR TEMPERATURE OPTIONS (3000K, 3500K, AND 4000K) - ALL WITHIN 2.5 MACADAM ELLIPSE.
- OPTICS - HIGH PERFORMANCE LENS, DIFFUSERS AND METAL REFLECTORS.
- DIMMING DRIVER - SMOOTH CONTINUOUS AND FLICKER-FREE DIMMING TO DARK (0.1%), SYNCING FOR CONTROLS: 2mA MAX. THD <20%, INSIGNIFICANT INRUSH CURRENT AT 120 AND 277VAC. FCC CLASS A AND B TESTED FOR EMI AND RFI.
- ELECTRICAL - LED LIGHT ENGINE - CONSISTING OF MODULAR LED BOARDS AND ELDOED DIMMING DRIVER - RATED FOR 50,000 HOURS (L80) AT 25°C AMBIENT TEMPERATURE. SPECIFY 120V OR 277V. PRE-WIRED WITH 16WAG FIXTURE WIRE. PLUG-IN ELECTRICAL CONNECTORS INCLUDED.

LED 4' SURFACE MOUNT STRIP FIXTURE

2 TYPE M DETAIL
NOT TO SCALE

LUMINAIRE REQUIREMENTS:

- HOUSING - 2NOMINAL 1 1/4" X 1 3/4" RECTANGULAR HOUSING FORMED FROM COLD-ROLLED STEEL.
- END CAPS - DIE-CAST END CAPS ARE MECHANICALLY ATTACHED WITH NO EXPOSED FASTENERS. FLAT END CAPS STANDARD, SCULPTURED END CAPS OPTIONAL.
- COLOR - HOUSING AND END CAPS IS WHITE, BLACK OR PAINTED ALUMINUM.
- LUMINAIRE LENGTH - 4' AND 8' LENGTHS IS A SINGLE SECTION FOR EXACT SUSPENSION SPACING OF 4' OR 8'. FOR TOTAL LUMINAIRE LENGTH, ADD 5/8" FOR EACH FLAT END CAP AND 4" FOR EACH SCULPTURED END CAP. USING INTERNAL JOINERS, 4' AND 8' SECTIONS CAN BE JOINED TO FOR LONGER ROWS.
- SOURCE - TWO LED LUMEN PACKAGES AND THREE AVAILABLE COLOR TEMPERATURE OPTIONS (3000K, 3500K, AND 4000K) - ALL WITHIN 2.5 MACADAM ELLIPSE.
- OPTICS - HIGH PERFORMANCE LENS, DIFFUSERS AND METAL REFLECTORS.
- DIMMING DRIVER - SMOOTH CONTINUOUS AND FLICKER-FREE DIMMING TO DARK (0.1%), SYNCING FOR CONTROLS: 2mA MAX. THD <20%, INSIGNIFICANT INRUSH CURRENT AT 120 AND 277VAC. FCC CLASS A AND B TESTED FOR EMI AND RFI.
- ELECTRICAL - LED LIGHT ENGINE - CONSISTING OF MODULAR LED BOARDS AND ELDOED DIMMING DRIVER - RATED FOR 50,000 HOURS (L80) AT 25°C AMBIENT TEMPERATURE. SPECIFY 120V OR 277V. PRE-WIRED WITH 16WAG FIXTURE WIRE. PLUG-IN ELECTRICAL CONNECTORS INCLUDED.

LED 4' SURFACE MOUNT FIXTURE

3 TYPE F & J DETAIL
NOT TO SCALE

LUMINAIRE REQUIREMENTS:

- HOUSING - DIE-FORMED, HEAVY-GAUGE, COLD-ROLLED STEEL WITH ENDCAPS MADE FROM THE SAME MATERIAL AS HOUSING.
- FINISH - MULTI-STAGE PHOSPHATE BONDING TREATMENT FINISHED WITH HIGH REFLECTANCE (MINIMUM 85%), BAKED WHITE ENAMEL FINISH. DARK BRONZE OR BLACK FINISH AVAILABLE. SEE LIGHTING FIXTURE SCHEDULE.
- LENS - 100% ACRYLIC, HIGH-IMPACT, CLEAR PRISMATIC DIFFUSER.
- LAMPS - LINEAR FLUORESCENT T8 TYPICALLY, WITH WATTAGES AS INDICATED. SEE LIGHTING FIXTURE SCHEDULE.
- BALLAST - CLASS P, THERMALLY-PROTECTED, HIGH POWER FACTOR (>95), ELECTRONIC TYPE WITH SOUND RATING A. SEE SPECIFICATION OR LIGHTING FIXTURE SCHEDULE FOR BALLAST OPTIONS AND SPECIFICS.
- CERTIFICATION - UL LISTED AND LABELED.
- OPTIONS - SUSPENSION MOUNTED WALLMOUNTED

WALL-MOUNTED LED

4 TYPE H DETAIL
NOT TO SCALE

LUMINAIRE REQUIREMENTS:

- HOUSING - ALUMINUM TOP-PLATE AND OUTER-RING.
- FINISH - THERMOSET POWDER COAT FINISH.
- LENS - FROSTED DIFFUSER.
- LAMP - LED
- DRIVER - DIMMABLE ELECTRONIC
- CERTIFICATION - UL LISTED AND LABELED FOR WET/DAMP LOCATION.

LED SURFACE

5 TYPE G DETAIL
NOT TO SCALE

PRODUCT FEATURES:

- EXTRUDED ALUMINUM HOUSING WITH DECORATIVE END CAPS ADA COMPLIANT
- SPECIFICATIONS

HOUSING: MARINE GRADE ALUMINUM. EXTRUDED BODY WITH DIE-CAST END CAPS. HOUSING, WITH END CAPS, POST ASSEMBLY TGIC POLYESTER POWDER COAT FINISHED - 5-STEP PRE-TREATMENT. SEE ORDERING INFORMATION FOR STANDARD, OPTIONAL, ARCHITECTURAL AND CUSTOM FINISHES. LENS: UV-STABILIZED, HIGH IMPACT EXTRUDED CLEAR OR PEARLESCENT POLYCARBONATE. SMOOTH EXTERIOR, LINEAR PRISMATIC INTERIOR. NOMINAL THICKNESS .156".

LENS SECURELY POSITIONED IN BODY CHANNELS AND END CAPS. LENS LOCKED IN PLACE WITH TAMPER-RESISTANT STAINLESS STEEL TORX WITH CENTER PIN FASTENERS AND SEALED WITH CLOSED CELL GASKETS.

END CAPS: MARINE GRADE DIE-CAST ALUMINUM. THREE STYLES AVAILABLE: FLAT, ROUNDED AND REVEAL. CONDUIT AND "WIREFORM READY" KNOCKOUTS VISIBLE ONLY FROM INTERIOR OF END CAP (FLAT AND ROUNDED STYLES ONLY).

SOCKETS: SHOCK-RESISTANT SOCKETS WITH INTERNAL LOCKING COLLAR TO ENSURE POSITIVE LAMP RETENTION.

REFLECTOR: FULL REFLECTOR/WIRE COVER - 92% REFLECTIVITY.

HARDWARE: STAINLESS STEEL, TAMPER-RESISTANT TORX FASTENERS SECURE LENS IN HOUSING BODY'S LENS CHANNEL (FOUR ON 24", 36", AND 48" HOUSINGS; EIGHT ON 72" AND 96" HOUSINGS).

ELECTRICAL: LED AVAILABLE 3500K, 4000K AND 5000K COLOR TEMPERATURES, 82 CRI. 120-277VAC, 50/60HZ ELECTRICAL INPUT WITH SERVICEABLE HIGH POWER FACTOR ELECTRONIC, CONSTANT-CURRENT DRIVER (<2% THD, >0.95 PF). STANDARD 0-10V DIMMING WITH 1-100% RANGE. MAXIMUM DRIVER SOURCE OF 500 MA. OPTIONAL EMBEDDED MICROWAVE MOTION SENSOR (MS) HAS FACTORY DEFAULT SETTINGS OF 20, 1F, MINUTE TIME OUT, DIMS DOWN TO 30%. LE, CLASS P BALLASTS, FLUORESCENT ELECTRONIC 120/277/347 AND DUAL VOLTAGE BALLASTS HIGH POWER FACTOR.

INSTALLATION: STANDARD FOUR-POINT (24" HOUSING) SIX-POINT (36" AND 48" HOUSINGS) AND TWELVE-POINT (72" AND 96" HOUSING) MOUNTING REQUIRED.

PHOTOMETRICS: PHOTOMETRY TESTED TO THE IESNA LM-79-08 STANDARD BY AN ILC/ISO17025 ACCREDITED LABORATORY. AMBIENT TEMPERATURE IS -30°C TO 25°C, UNLESS OTHERWISE NOTED.

LISTINGS: UL AND CUL LISTED FOR WET LOCATION - COVERED CEILING MOUNT, UL CERTIFIED IP64 PER IEC 60598. DAMP RATED - CEILING MOUNT, CORNER, HORIZONTAL WALL AND PENDANT MOUNT INSTALLATION - DAMP LOCATION ONLY. ADA COMPLIANT. SUITABLE FOR INSTALLATION INTO -40°C TO 40°C AMBIENT ENVIRONMENTS, UNLESS OTHERWISE NOTED.

SUSPENDED INTERIOR AREA LIGHT

6 TYPE D DETAIL
NOT TO SCALE

MARK	DESCRIPTION	NOM. SIZE	TEMP(G/K)	LAMPS	VOLTS	DELIVERED LUMENS	WATTS	COLOR	MOUNTING HEIGHT	BALLAST/ DRIVER	REMARKS
A	RECESSED INDIRECT CENTER BASKET DIMMING	2x4	3500	LEDS	120	4300	36	N/A	RECESSED	LED DRIVER 0-10V DIMMING	
B	RECESSED INDIRECT CENTER BASKET	2x4	3500	LEDS	120	4300	36	N/A	RECESSED	LED DRIVER	5
C	RECESSED DOWN LIGHT	6" DIA.	3500	LEDS	120	2000	25	N/A	RECESSED	LED DRIVER 0-10V DIMMING	5
D	SUSPENDED LINEAR DIRECT INDIRECT FIXTURE, 80% DOWN LIGHT	4FT	3500	LEDS	120	4500/4FT	38.4 PER 4FT	WHITE	18" BELOW THE CEILING	LED DRIVER 0-10V DIMMING	7
E	EMERGENCY LIGHTING UNIT WITH 90 MINUTE EMERGENCY BATTERY BACKUP	10.25" x 4.75" x 2.625"		LEDS	120		5	WHITE	8'		
F	SURFACE MOUNTED LINEAR	1'x4'	3500	LEDS	120	3600	29	WHITE	SURFACE	LED DRIVER	
G	SURFACE MOUNTED SHOWER LIGHT WET LOCATION LISTED	6" DIA.	3000	LEDS	120	700	11	WHITE	SURFACE	LED DRIVER	3
H	WALL MOUNTED LINEAR FIXTURE	4' x 4' x 4.75"	3500	LEDS	120	2800	31	WHITE	WALL MTD.	LED DRIVER	
J	SURFACE MOUNTED LINEAR DIMMING	1'x4'	3500	LEDS	120	4100	35	WHITE	SURFACE	LED DRIVER 0-10V DIMMING	
K	RECESSED DOWN LIGHT	6" DIA.	3500	LEDS	120	1000	15	N/A	RECESSED	LED DRIVER	
L	TRACK LIGHTING WITH FOUR LED HEADS	4'	3500	LEDS	120	TBD	150	WHITE	SURFACE	LED DRIVER	8
M	LINEAR STRIP	4'	3500	LEDS	120	3000	26	WHITE	SURFACE	LED DRIVER	
N	RECESSED EXTERIOR EMERGENCY LIGHT FIXTURE WET LOCATION LISTED	6" DIA.	5000	LEDS	120	2500	25	N/A	RECESSED	LED DRIVER	3
P	WALL MOUNTED EXTERIOR EMERGENCY LIGHT FIXTURE		5000	LEDS	120	1625	15	DARK BRONZE	WALL MTD.	LED DRIVER	3.7
Q	WALL MOUNTED EXTERIOR LIGHT FIXTURE		5000	LEDS	120	1625	15	DARK BRONZE	WALL MTD.	LED DRIVER	3.7
X	EDGE LIT RECESSED EXIT SIGN WITH 90 MINUTE EMERGENCY BATTERY			LEDS	120		5				
X1	COMBINATION EXIT SIGN AND LIGHTING UNIT WITH 90 MINUTE EMERGENCY BATTERY			LEDS	120		5	WHITE			

REMARKS:

- BI-LEVEL SWITCHING
- DAMP LOCATION
- WET LOCATION
- WIREGUARD
- LED REQUIRED SURGE PROTECTION
- VERIFY FINAL MOUNTING HEIGHT WITH ARCHITECT
- FINAL COLOR SELECTION BY ARCHITECT
- MUST PROVIDE 150VA CURRENT LIMITER.
- USER DEFINED

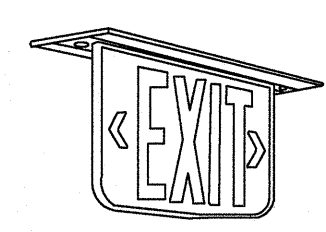
GENERAL NOTES:

- THE CONTRACTOR SHALL VERIFY THE LEAD TIME OF ALL PRODUCTS SPECIFIED IN THIS SCHEDULE AT THE TIME OF PACKAGE QUOTE.
- DURING THE BID PROCESS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DELIVERY/SCHEDULING ISSUES.
- NO SUBSTITUTIONS WILL BE ALLOWED DUE TO THE LACK OF COORDINATION OF DELIVERY DATES AND CONSTRUCTION SCHEDULE AFTER BID.
- ALL EXPEDITED EXPENSES SHALL BE THE RESPONSIBILITY OF THE CONTRACTORS.
- FIXTURES TO BE INSTALLED IN CEILINGS, INDICATE ON THE ARCHITECTURAL PLANS AS HAVING INSULATION IN CONTACT WITH THE CEILING SURFACE. SHALL BE IC RATED BY MANUFACTURER.
- LIGHTING FIXTURES SHALL MEET THE AESTHETICS, DESCRIPTION AND SPECIFICATIONS. SUBSTITUTIONS SHALL INCLUDE PT. BY PT. CALCULATIONS.
- LIGHTING FIXTURES, AS SPECIFIED, HAVE BEEN SO SELECTED TO ACHIEVE REQUIRED/DESIRED FOOTCANDLE LEVELS IN THEIR RESPECTIVE AREA. HENCE SPECIFIC FIXTURE CHARACTERISTICS WHICH MAY CREATE PARTICULAR ILLUMINATION RESULTS ARE ESSENTIAL. ANY DEVIATIONS FROM SPECIFIED FIXTURES SHALL DEEM THE SUBMITTING AGENT AND CONTRACTORS RESPONSIBLE IN PROVIDING SUCH DEVIATION FOR THE ARCHITECT/ENGINEER AND OWNER TO MAKE AN INFORMED DECISION.
- SUBSTITUTIONS ARE ACCEPTABLE AS LONG AS THEY ARE EQUAL TO THE FIXTURE SPECIFIED, UNLESS OTHERWISE NOTED. THIS INCLUDES LENS, COLORS, REFLECTORS, PHOTOMETRICS, HOUSING MATERIAL, FINISHES, ETC. ALL.
- ANY FIXTURE WITH THE TEXT "N/A" ADJACENT TO IT SHALL INDICATE THAT THAT FIXTURE IS A NIGHT LIGHT (24HR LIGHT). THE FIXTURE SHALL BE CONNECTED TO THE UNSWITCHED HOT LEG OF THE INDICATED CIRCUIT.
- ACRYLIC PRISMATIC LENSES SHALL BE 0.156" NOMINAL MINIMUM THICKNESS.
- ALL EXIT AND EMERGENCY FIXTURES SHALL COMPLY WITH NCSBC STANDARDS AND HAVE AUTOMATIC TESTING DEVICES.
- LED MODULES SHALL BE REPLACEABLE.
- SEE SPECIFICATIONS SECTIONS 265100 AND 265200 FOR ADDITIONAL REQUIREMENTS.
- ELECTRICAL CONTRACTOR SHALL RECEIVE APPROVAL FOR ALL LIGHTING FIXTURES FROM ARCHITECT/OWNER PRIOR TO PURCHASE AND ROUGH-IN.
- ALL LIGHTING FIXTURES PENETRATING RATED FLOOR/CEILING ASSEMBLY SHALL BE PROVIDED WITH ACCESSORIES TO MAINTAIN ASSEMBLY FIRE RATING.
- REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL RATINGS.
- THE ACTUAL FIXTURES SUBMITTED SHALL BE MANUFACTURED IN THE UNITED STATES.
- ALL LUMINAIRE SUPPORTS, INCLUDING POLES, SHALL BE 3RD PARTY LISTED.

SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

<p>2246 Yaupon Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.5266 www.cbhfindesign.com</p>	<p>SHEET TITLE: ELECTRICAL LIGHTING INFORMATION</p>		<p>E-5</p>
	<p>TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150</p>		
<p>DES. RRD DR. RRD CHK. JPF SUBMITTED BY: DESIGN DR. T H BURTON, PE</p>		<p>DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA</p>	
<p>APPROVED: [Signature]</p>		<p>INT. & EXT. REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA</p>	
<p>DATE: [Date]</p>		<p>NAVFAC DRAWING NO. 60024549</p>	
<p>DATE: [Date]</p>		<p>CONST. CONTR. NO. N40085-19-D-0025</p>	
<p>SCALE: NOTED</p>		<p>SPEC. 05-19-0025</p>	
<p>SHEET 50 OF 59</p>		<p></p>	

REVISIONS		
SYM.	DATE	APPROVED



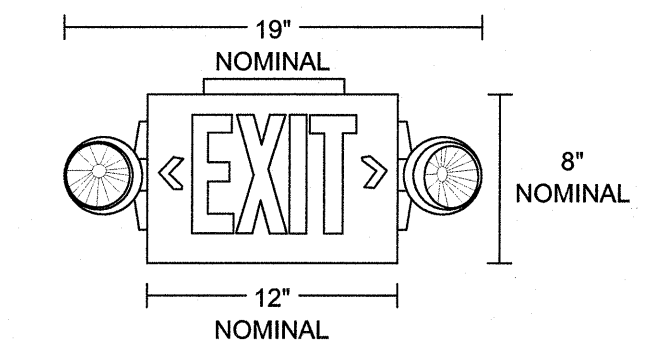
LUMINAIRE REQUIREMENTS:

- HOUSING/TRIM - EXTRUDED ALUMINUM WITH OPTIONAL FINISHES OF SATIN ALUMINUM, WHITE, BLACK, BRASS, BRONZE OR CHROME.
- PLAQUE - WATER-CLEAR INJECTION-MOLDED ACRYLIC, OPTIONAL MIRROR BACKGROUND ON SINGLE FACE MODELS; STANDARD ON DOUBLE-FACED MODELS.
- LETTERS/CHEVRONS - MINIMUM 6" HIGH WITH 3/4" STROKE, RED OR GREEN LETTERS AS INDICATED, PROVIDE CHEVRONS AS INDICATED EITHER LEFT, RIGHT OR BOTH DIRECTIONS AS INDICATED.
- EMERGENCY PACK - SOLID-STATE, CONSTANT-CURRENT TYPE BATTERY CHARGER WITH MAINTENANCE-FREE, NICKEL-CADMIUM BATTERY, AG-ON INDICATOR LAMP AND TEST SWITCH.
- MOUNTING - UNIVERSAL MOUNTING KIT FOR CEILING, WALL OR END OF FIXTURE MOUNTING.
- ILLUMINATION - PROVIDED BY RED OR GREEN HIGH-OUTPUT LEDS IN TOP HOUSING, RATED LIFE SHALL BE IN EXCESS OF 20 YEARS.
- CERTIFICATION - UL LISTED AND LABELED.

EDGE-LIT EXIT SIGN

REVISED: AUGUST 2004 LIGHTING PLATE: NL-64

1 TYPE X DETAIL
NOT TO SCALE



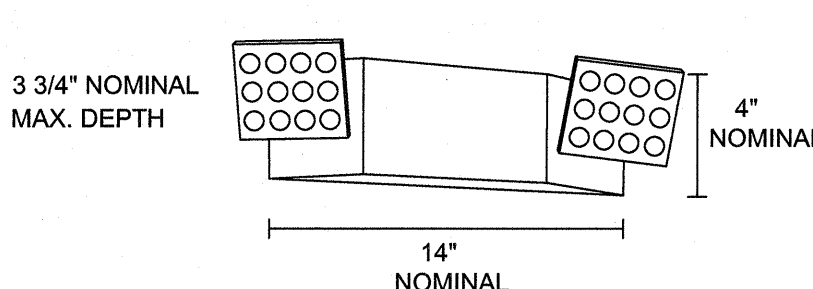
LUMINAIRE REQUIREMENTS:

- THERMOPLASTIC HOUSING, IMPACT-RESISTANT, SCRATCH-RESISTANT AND CORROSION-PROOF, UL84V-0 FLAME RATING, UV-STABLE RESIN. RUGGED UNIBODY HOUSING SNAPS TOGETHER WITH NO ADDITIONAL FASTENERS. UNIVERSAL, DIRECTIONAL CHEVRON INSERTS ARE EASILY REMOVED AND REINSERTED. LETTERS ARE 6" HIGH WITH 3/4" STROKE, WITH 100 FT. VIEWING DISTANCE RATING BASED UPON UL924 STANDARD. LEDS MOUNTED ON PRIMARY CIRCUIT BOARDS FOR SIGN ILLUMINATION. LOW-ENERGY LED LAMP IN SIGN OPERATES IN NORMAL (AC INPUT) AND EMERGENCY (DC INPUT) MODES. LOW-PROFILE, INTEGRATED TEST SWITCH/PILOT LIGHT, RED STATUS INDICATOR, UNIQUE TRACK-AND-SWIVEL ARRANGEMENT PERMITS FULL RANGE OF DIRECTION OF LAMP HEAD ADJUSTMENT. TOOL-LESS ACCESS FOR MAINTENANCE.
- OPTICS - TWIN LED LAMP HEADS OPERATE IN EMERGENCY (DC INPUT) MODE WITH 12 SERIES-PARALLEL WHITE LEDS IN EACH HEAD.
- ELECTRICAL - DUAL-VOLTAGE INPUT CAPABILITY (120/277V), CURRENT-LIMITING CHARGER, SHORT-CIRCUIT PROTECTION, SINGLE MULTI-COLOR LED INDICATOR TO DISPLAY TWO-STATE CHARGING, TEST ACTIVATION AND THREE-STATE DIAGNOSTIC TEST, TEST SWITCH, SELF-DIAGNOSTIC TESTING FOR 30 SECONDS EVERY 30 DAYS, 30 MINUTES AT 180-DAY INTERVAL, AND 90 MINUTES ANNUALLY. DIAGNOSTIC EVALUATION OF LED LIGHT SOURCE, AC-TO-DC TRANSFER, CHARGING AND BATTERY CONDITION, BATTERY: SEALED, MAINTENANCE-FREE NICKEL-CADMIUM BATTERY, DELIVERS 90-MINUTE CAPACITY TO EMERGENCY LAMPS.
- INSTALLATION - TOP, END OR BACK MOUNTING. HOUSING SNAPS TO CANOPY WITH POSITIVE-LOCKING TABS, CAM LOCKING PIN SECURES HOUSING TO CANOPY.
- LISTINGS - UL DAMP LOCATION LISTED STANDARD 50°-104°F (10°-40°C), MEETS UL 924, NFPA 101 (CURRENT LIFE SAFETY CODE), NEC AND OSHA ILLUMINATION STANDARDS.

LED COMBO/EXIT SIGN

REVISED: AUGUST 2004 LIGHTING PLATE: NL-63

2 TYPE X1 DETAIL
NOT TO SCALE



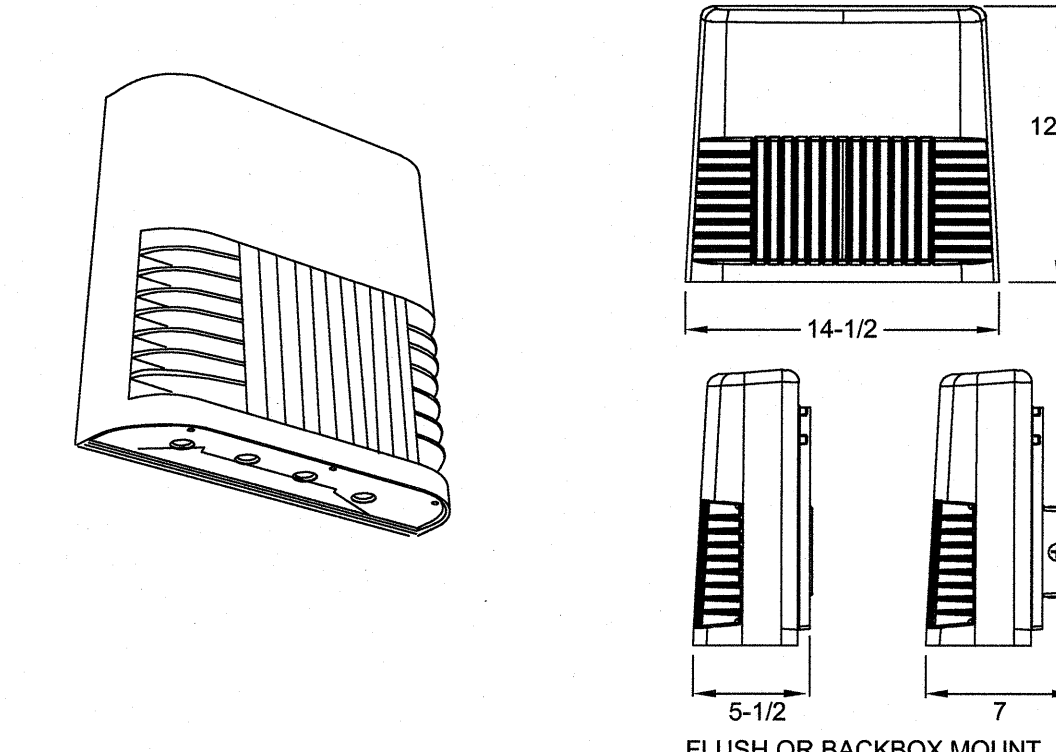
LUMINAIRE REQUIREMENTS:

- HOUSING - INJECTION-MOLDED, FAME-RETARDANT, HIGH-IMPACT, THERMOPLASTIC HOUSING WITH SNAP-FIT DESIGN COMPONENTS. TRACK AND SWIVEL ARRANGEMENT PERMITS FULL RANGE OF LAMP ADJUSTMENT.
- OPTICS - TWO 1.8W LED LAMPS FOR EMERGENCY LIGHT.
- ELECTRICAL - DUAL-VOLTAGE INPUT 120V OR 277V AC, EMERGENCY UNIT PROVIDED WITH TEST SWITCH, STATUS INDICATOR AND RECHARGEABLE BATTERY, MAINTENANCE-FREE NICKEL-CADMIUM BATTERY, 90 MINUTES OF EMERGENCY POWER.
- LISTINGS - UL LISTED, MEETS UL 924, NFPA 101, NFPA 70-NEC AND OSHA ILLUMINATION STANDARDS. DAMP LOCATION 32°F TO 122°F (0°C TO 50°C) LISTED STANDARD.

DECORATIVE EMERGENCY LIGHTING UNIT

REVISED: AUGUST 2004 LIGHTING PLATE: NL-67

3 TYPE E DETAIL
NOT TO SCALE



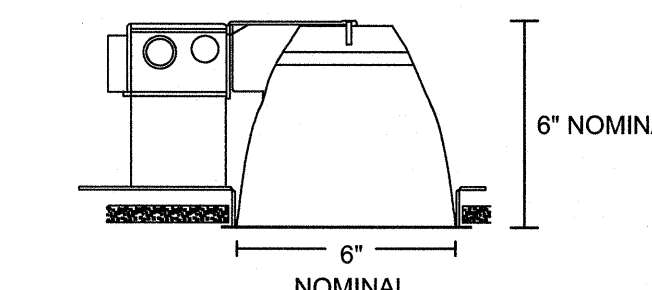
LUMINAIRE REQUIREMENTS:

- HOUSING - CAST ALUMINUM HOUSING.
- FINISH - THERMOSET POWDER COAT FINISH.
- LENS - CLEAR GLASS.
- LAMPS - LEDS.
- DRIVER - ELECTRONIC >90% POWER FACTOR.
- ELECTRICAL - 120/277V
- CERTIFICATION - UL LISTED AND LABELED.
- INTEGRAL PHOTOCCELL

LED EXTERIOR / EGRESS SURFACE FIXTURE

REVISED: AUGUST 2004 LIGHTING PLATE: NL-67

4 TYPE P & Q DETAIL
NOT TO SCALE



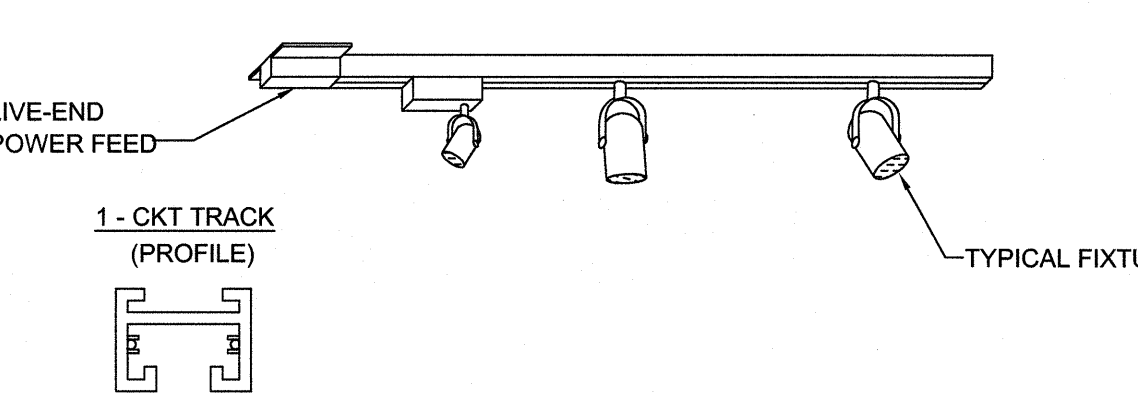
LUMINAIRE REQUIREMENTS:

- HOUSING - ONE-PIECE, DIE-STAMPED, COLD ROLLED STEEL OR ACRYLIC-ENAMELED ALUMINUM. PROVIDE WITH PRE-WIRED JUNCTION BOX HAVING SNAP-ON ACCESS COVER. ACCESS TO JUNCTION BOX FROM BELOW CEILING SHALL BE PROVIDED THROUGH FIXTURE AFTER REMOVAL OF REFLECTOR.
- REFLECTOR AND TRIM - ONE-PIECE, CLEAR, SPUN ALUMINUM, IRIDESCENCE-SUPPRESSED, WITH PAINTED WHITE SELF TRIM, OTHER FINISHES AND TYPES AVAILABLE. SEE LIGHTING FIXTURE SCHEDULE.
- LED DRIVER - DRIVER DELIVERS FULL RANGE DIMMING FROM 0 - 10V CONTROL SIGNAL.
- ELECTRICAL - LONG-LIFE LEDS, COUPLED WITH HIGH-EFFICIENCY DRIVERS, PROVIDE SUPERIOR QUANTITY AND QUALITY OF ILLUMINATION FOR EXTENDED SERVICE LIFE. FIXTURE SHALL BE RATED TO DELIVER L80 PERFORMANCE FOR 50,000 HOURS.
- CERTIFICATION - UL LISTED AND LABELED.
- OPTIONS - REFLECTOR TYPE - DIRECT DOWNLIGHT OR WALL WASH; SEMI-SPECULAR OR SPECULAR. REFLECTOR COLOR - CLEAR, CHAMPAGNE, PEWTER, WHEAT, GOLD OR BRONZE. TRIM - OPEN REFLECTOR, STEPPED WHITE OR BLACK BAFFLE.

RECESSED LED DOWNLIGHT

REVISED: LIGHTING PLATE:

5 TYPE K & N DETAIL
NOT TO SCALE




LUMINAIRE REQUIREMENTS:

- TRACK SECTION - HEAVY-GAUGE, EXTRUDED ALUMINUM CHANNEL WITH NATURAL ALUMINUM OR BAKED ENAMEL OR POWDER COAT WHITE, OR BLACK FINISH.
- AMPACITY - TRACK SHALL HAVE ONE OR TWO 20 AMP CIRCUITS INTEGRAL TO EXTRUDED TRACK CHANNEL AS NOTED.
- LENGTHS - TRACK SHALL BE AVAILABLE IN 2', 4', 8', AND 12' CONTINUOUS SECTIONS.
- MOUNTING - EACH 4' OR LESS SECTION OF TRACK SHALL BE SECURED BY TWO TOGGLE-BOLT TYPE FASTENERS, OR SCREWS IF JOIST IS AVAILABLE.
- FIXTURE TYPES - SEE NL-43 FOR COMMON TRACK LIGHTING FIXTURES.
- CERTIFICATION - UL LISTED AND LABELED.
- OPTIONS - PROVIDE ACCESSORIES AS NECESSARY FOR A COMPLETE INSTALLATION. AVAILABLE ACCESSORIES INCLUDE:
 - A. LIVE END FEED - USED TO START A SINGLE RUN.
 - B. LINEAR COUPLER - USED TO JOIN TWO STRIGHT TRACKS.
 - C. L FEED CONNECTOR - JOINS TWO TRACKS IN 90 DEGREE CONFIGURATION.
 - D. T FEED CONNECTOR - JOINS THREE TRACKS IN TEE CONFIGURATION.
 - E. X FEED CONNECTOR - JOINS FOUR TRACKS IN AN X CONFIGURATION.
 - F. FLEXIBLE CONNECTOR - JOINS TWO TRACKS IN UP TO A 90 DEGREE BEND.
 - G. SURFACE CONDUIT FEED - PERMITS TRACK END TO BE CONNECTED TO 1/2" CONDUIT.
 - H. CONCEALED FEED - PERMITS TRACK TO BE CONNECTED FROM ABOVE WITHOUT OUTLET BOX.

SURFACE-MOUNTED TRACK LIGHTING

REVISED: LIGHTING PLATE:

6 TYPE L DETAIL
NOT TO SCALE



LUMINAIRE REQUIREMENTS:


- HOUSING - TYPE A: DIE-CAST ALUMINUM WITH MATTE BLACK BAFFLE. TYPE B: ALUMINUM WITH OPTIONAL CAST ALUMINUM END CAPS.
- FINISH - TYPE A & B: MATTE WHITE OR BLACK POWDER COAT STANDARD. VARIETY OF OTHER COLORS AVAILABLE. ADD SPECIFIC DESCRIPTION TO LIGHTING FIXTURE SCHEDULE.
- DIMMING DRIVER - SMOOTH CONTINUOUS AND FLICKER-FREE DIMMING TO DARK (0.1%), SYNCING FOR CONTROLS: 2mA MAX, THD <20%, INSIGNIFICANT INRUSH CURRENT AT 120 AND 277VAC, FCC CLASS A AND B TESTED FOR EMI AND RFI.
- CERTIFICATION - UL LISTED AND LABELED.

TYPICAL TRACK LIGHTING FIXTURES

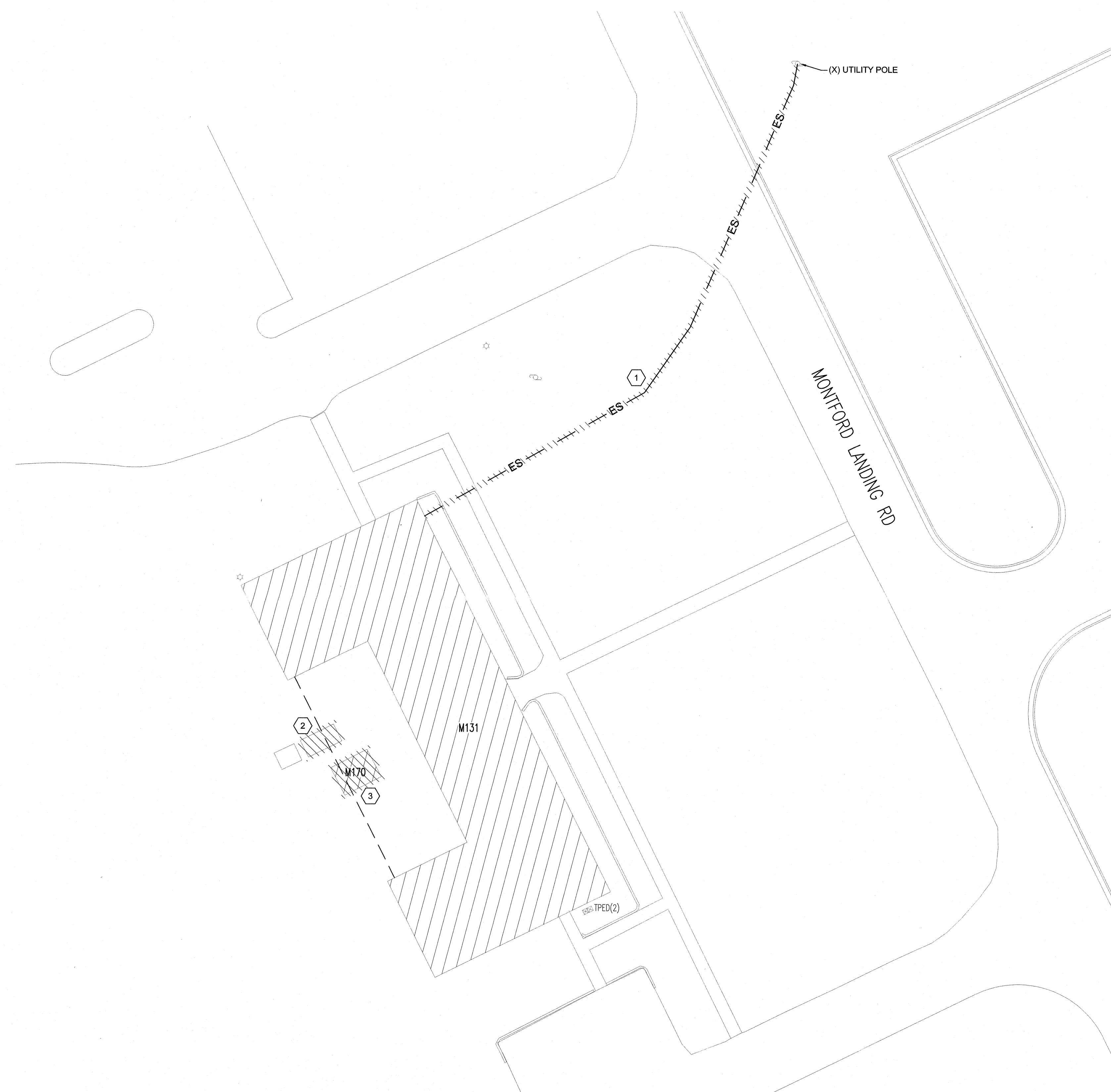
REVISED: LIGHTING PLATE:

7 TYPE L DETAIL
NOT TO SCALE

SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

 <p>2248 Yaupon Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.5295 www.cbhfengineers.com</p>	<p>SHEET TITLE: ELECTRICAL LIGHTING INFORMATION</p>		<p>E-6</p>
	<p>TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150</p>		
<p>DES. RRD DR. RRD CHK. JPF SUBMITTED BY: DESIGN DR. T H BURTON, PE</p>		<p>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA</p>	
<p>APPROVED: [Signature] DATE: [Blank] SATSFACTORY TO: [Blank] DATE: [Blank]</p>		<p>INT. & EXT. REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA</p>	
<p>CODE IDENT. NO. 80091 NAVFAC DRAWING NO. 60024550 CONST. CONTR. NO. N40085-19-D-0025 SPEC. 05-19-0025</p>		<p>SHEET 51 OF 59</p>	

REVISIONS		
SYM.	DATE	APPROVED



1 ELECTRICAL SITE DEMOLITION PLAN
 1" = 20'-0"

DEMOLITION KEYED NOTES

① UNDERGROUND SECONDARY CONDUCTORS: REMOVE CONDUCTORS BACK TO UTILITY POLE, CONDUIT TO BE REMOVED WHERE ACCESSIBLE, CAPPED AND ABANDONED IN PLACE WHERE NOT REMOVED.

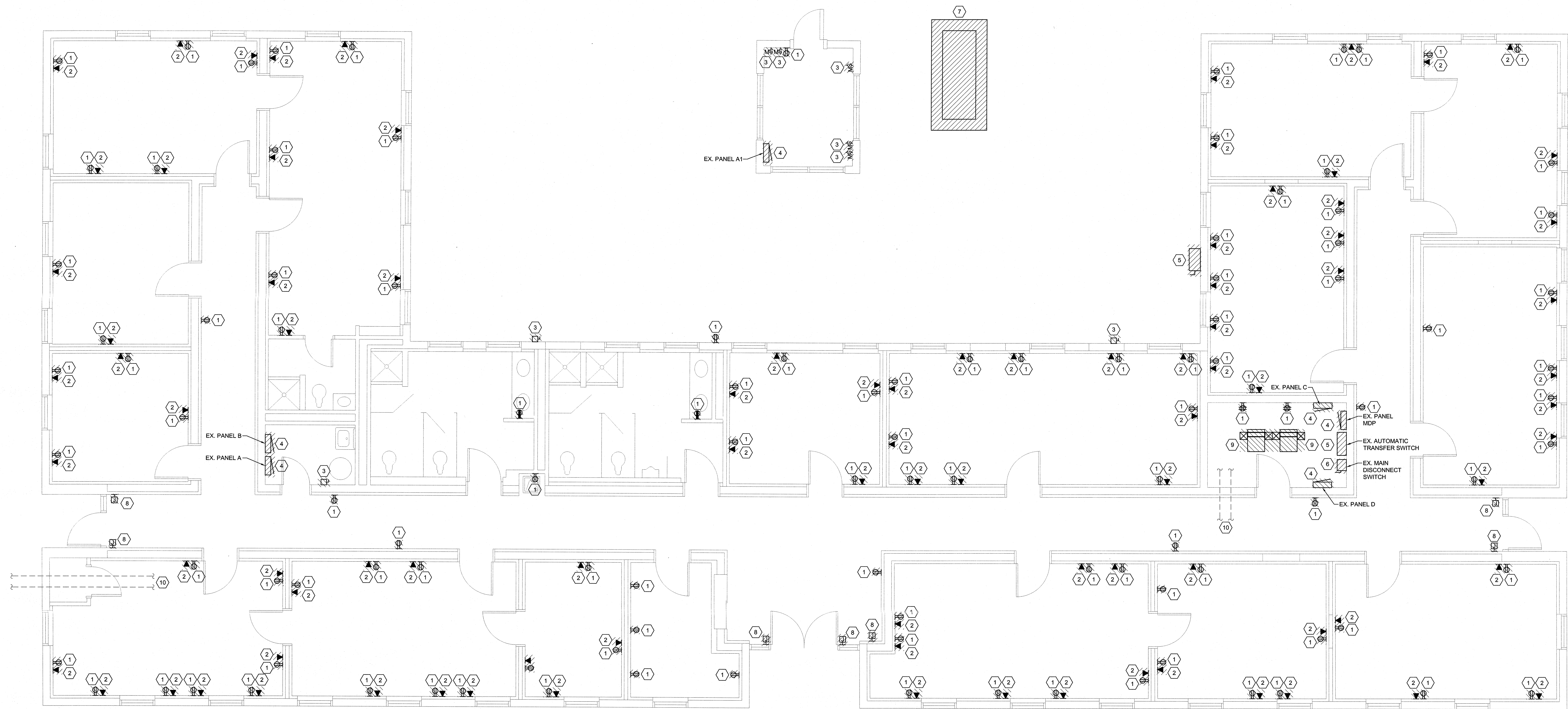
② GENERATOR: REMOVE GENERATOR AND CONDUCTORS BACK TO BUILDING. CONDUIT SHALL BE REMOVED AS FAR BACK AS POSSIBLE TO FACILITATE BUILDING ADDITION. SEE NOTE ON 2/E-2 REGARDING GENERATOR AND AUTOMATIC TRANSFER SWITCH SALVAGE AND DELIVER TO OWNER.

③ FEEDERS FOR PANELBOARD IN BUILDING TO BE DEMOLISHED TO BE REMOVED BACK TO SOURCE. CONDUIT SHALL BE REMOVED AS FAR BACK AS POSSIBLE TO FACILITATE BUILDING ADDITION.

SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

CBHF Engineers, PLLC 2246 Yaupon Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.5266 www.cbhfengineers.com	SHEET TITLE: ELECTRICAL SITE DEMOLITION PLAN		E-7
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150		
	DES. RRD DR. RRD CHK. JPF SUBMITTED BY: DESIGN DIR. T.H. BURTON, PE		DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
	APPROVED: _____ DATE _____ SATISFACTORY TO: _____ DATE _____		INT. & EXT. REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA
CODE IDENT. NO. 80091 NAVFAC DRAWING NO. 60024551 CONST. CONTR. NO. N40085-19-D-0025		SCALE: NOTED SPEC. 05-19-0025 SHEET 52 OF 59	

REVISIONS		
SYM.	DATE	APPROVED



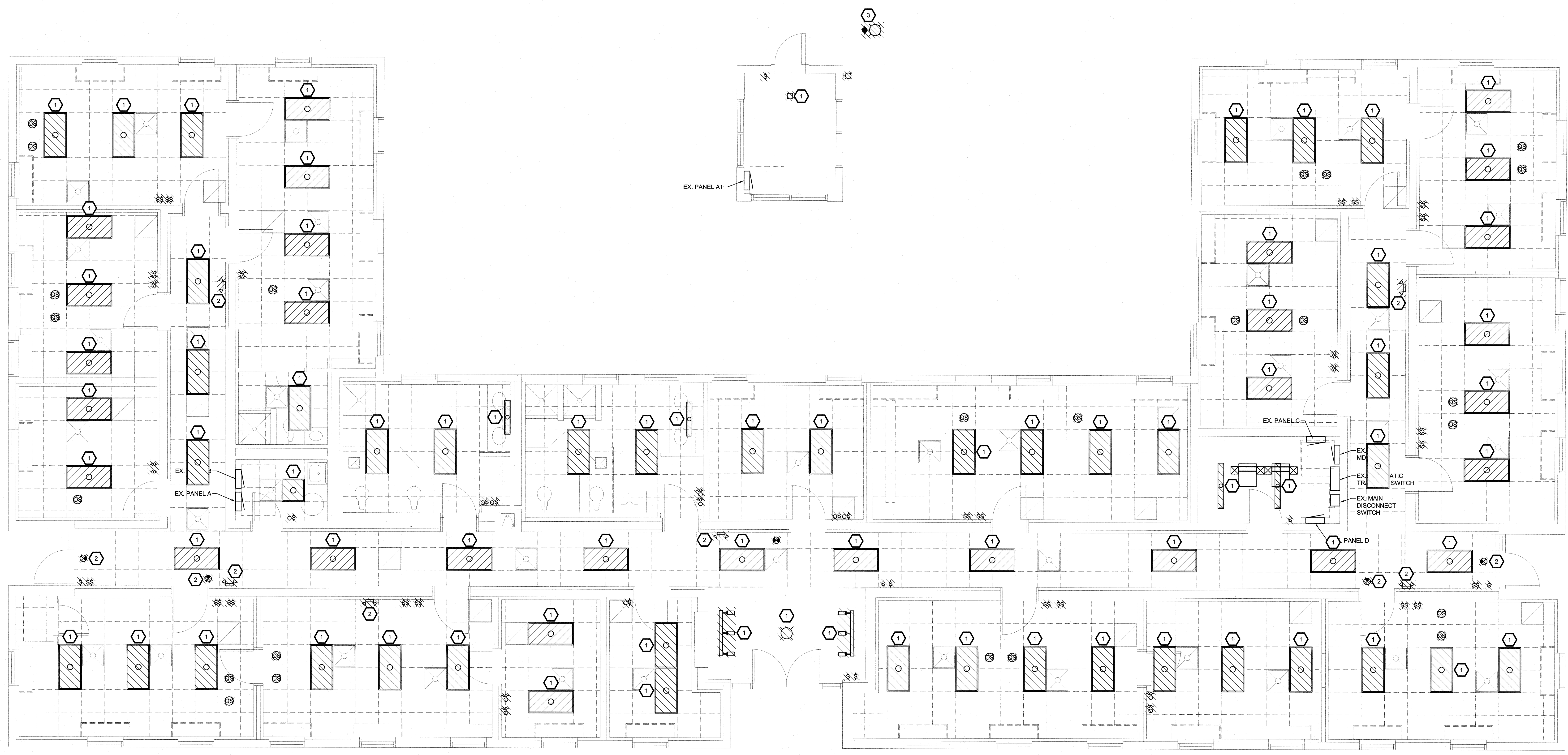
1 POWER DEMOLITION PLAN
 1/4" = 1'-0"
 0 2 4 6 8

DEMOLITION KEYED NOTES	
1 RECEPTACLES: REMOVE RECEPTACLE, COVER PLATES, EXPOSED/CONCEALED CONDUIT, AND CONDUCTORS TO SOURCE.	8 JUNCTION BOXES: REMOVE JUNCTION BOXES, WIRING, AND CONDUIT FOR ACCESS CONTROL SYSTEM.
2 DATA JACKS: REMOVE ALL RECESSED DATA DEVICES, COVERPLATES, AND EXPOSED/CONCEALED CONDUIT. REMOVE CABLING BACK TO DATA RACK/TELECOM ROOM.	9 FLOOR MOUNTED SERVER RACK TO BE REMOVED AND TURNED OVER TO OWNER.
3 EQUIPMENT DISCONNECT SWITCH: DISCONNECT CONDUIT AND CONDUCTORS AND REMOVE TO SOURCE. REMOVE DISCONNECT SWITCH. EQUIPMENT TO BE REMOVED BY OTHERS.	10 EXISTING 4" TELECOMM CONDUITS ROUTED ABOVE THE CEILING TO REMAIN, PROTECT DURING DEMOLITION AND NEW WORK.
4 PANELBOARD: DISCONNECT CONDUIT AND CONDUCTORS FROM PANELBOARD. REMOVE PANELBOARD AND CONDUCTORS AND CONDUIT BACK TO SOURCE.	
5 TRANSFER SWITCH: DISCONNECT CONDUIT AND CONDUCTORS FROM TRANSFER SWITCH BACK TO SOURCE. REMOVE TRANSFER SWITCH.	
6 DISCONNECT SWITCH: REMOVE DISCONNECT SWITCH, WIRING, AND CONDUIT BACK TO SOURCE.	
7 GENERATOR: 150KW DIESEL GENERATOR, ENCLOSURE, CONTROLS, CONCRETE PAD, CONDUCTORS AND CONDUIT TO BE REMOVED. GENERATOR TO BE DELIVERED TO OWNER'S STORAGE LOCATION.	

SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

CBHF Engineers, PLLC 2246 Yaupon Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.5266 www.cbhfenr.com	SHEET TITLE: ELECTRICAL POWER DEMOLITION PLAN		E-8
	DES. RRD DR. RRD CHK. JPF SUBMITTED BY: DESIGN DIR. T H BURTON, PE		
TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150	DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA		INT. & EXT. REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA
APPROVED: [Signature] DATE:	DATE:	CODE IDENT. NO. 80091	NAVFAC DRAWING NO. 60024552 CONST. CONTR. NO. N40085-19-D-0025
SATISFACTORY TO:	DATE:	SCALE: NOTED	SPEC. 05-19-0025 SHEET 53 OF 59

REVISIONS		
SYM.	DATE	APPROVED



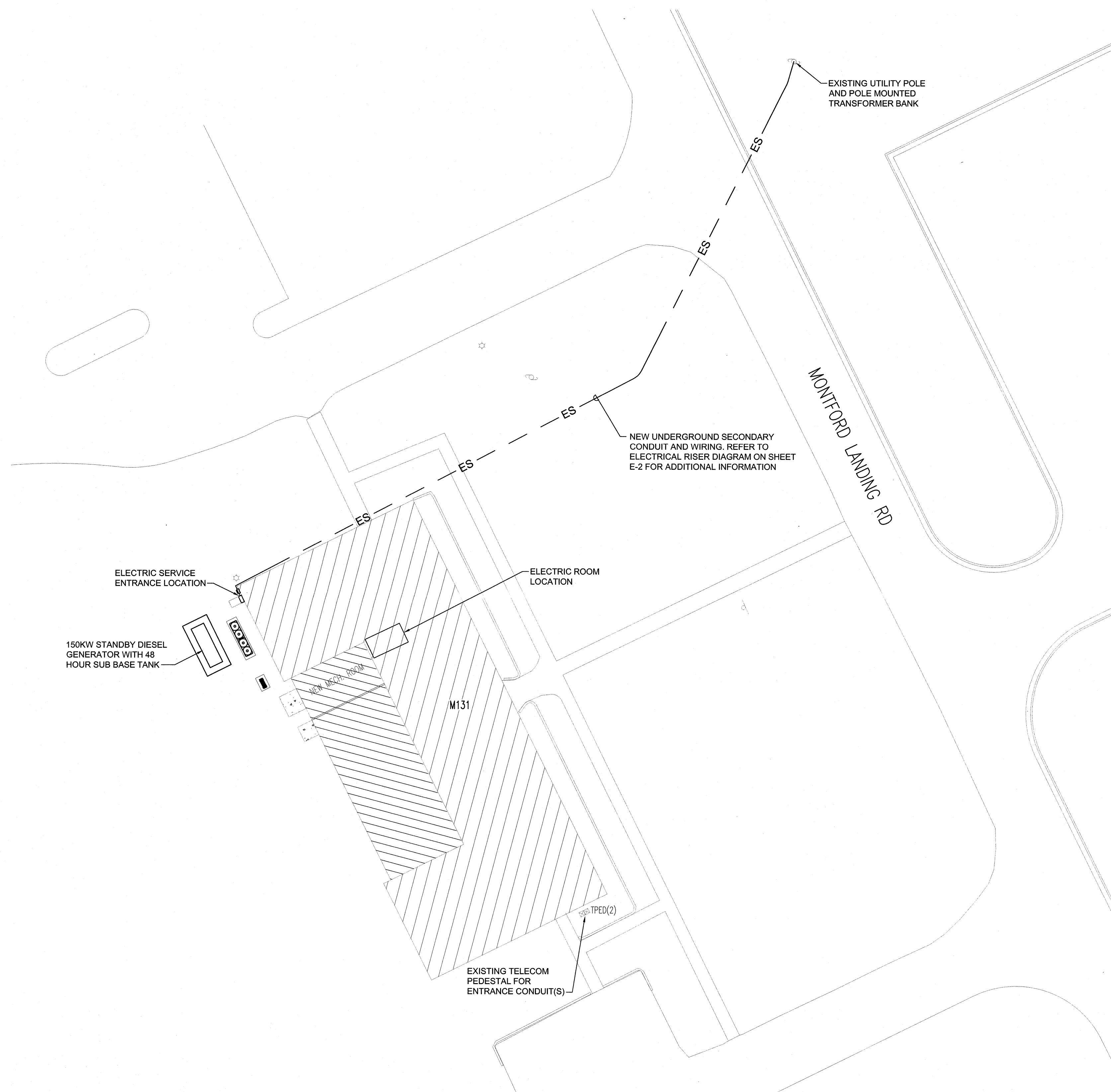
1 LIGHTING DEMOLITION PLAN
 1/4" = 1'-0"
 0 2 4 6

- DEMOLITION KEYED NOTES**
- 1 INTERIOR LIGHT FIXTURE: DISCONNECT AND REMOVE LIGHT FIXTURE AND LAMPS. ALL CONDUIT, WIRING, AND ASSOCIATED LIGHTING CONTROL DEVICES TO BE REMOVED BACK TO SOURCE.
 - 2 EMERGENCY LIGHT FIXTURE: DISCONNECT AND REMOVE LIGHT FIXTURE AND LAMPS. ALL CONDUIT AND WIRING TO BE REMOVED BACK TO SOURCE.
 - 3 EXTERIOR LIGHT FIXTURE: DISCONNECT AND REMOVE LIGHT FIXTURE AND LAMPS. ALL CONDUIT, WIRING, AND ASSOCIATED LIGHTING CONTROL DEVICES TO BE REMOVED BACK TO SOURCE.

SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

<p>2246 Yaupon Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.9266 www.cbhfindesigners.com</p>	<p>SHEET TITLE: ELECTRICAL LIGHTING DEMOLITION PLAN</p>		<p>E-9</p>
	<p>TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150</p>		
	DES. RRD	INT. & EXT. REPAIRS	
	DR. RRD	BLDG. M131	
	CHK. JPF	CAMP LEJEUNE, NORTH CAROLINA	
	SUBMITTED BY: T.H. BURTON, PE		
APPROVED: [Signature]	DATE: [Blank]	SIZE: F	CODE IDENT. NO. 80091
SATISFACTORY TO: [Blank]	DATE: [Blank]	SCALE: NOTED	NAVFAC DRAWING NO. 60024553
		SPEC. 05-19-0025	CONST. CONTR. NO. N40085-19-D-0025
			SHEET 54 OF 59

REVISIONS		
SYM.	DATE	APPROVED



1 **ELECTRICAL SITE PLAN**
 1" = 20'-0"
 NORTH

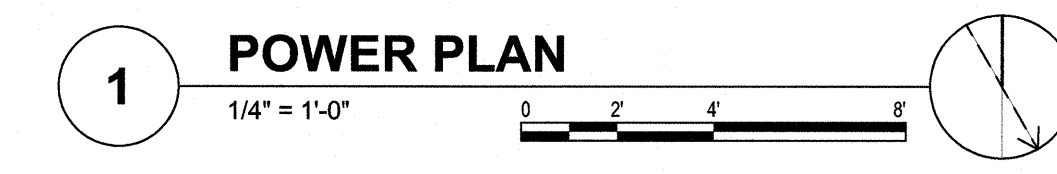
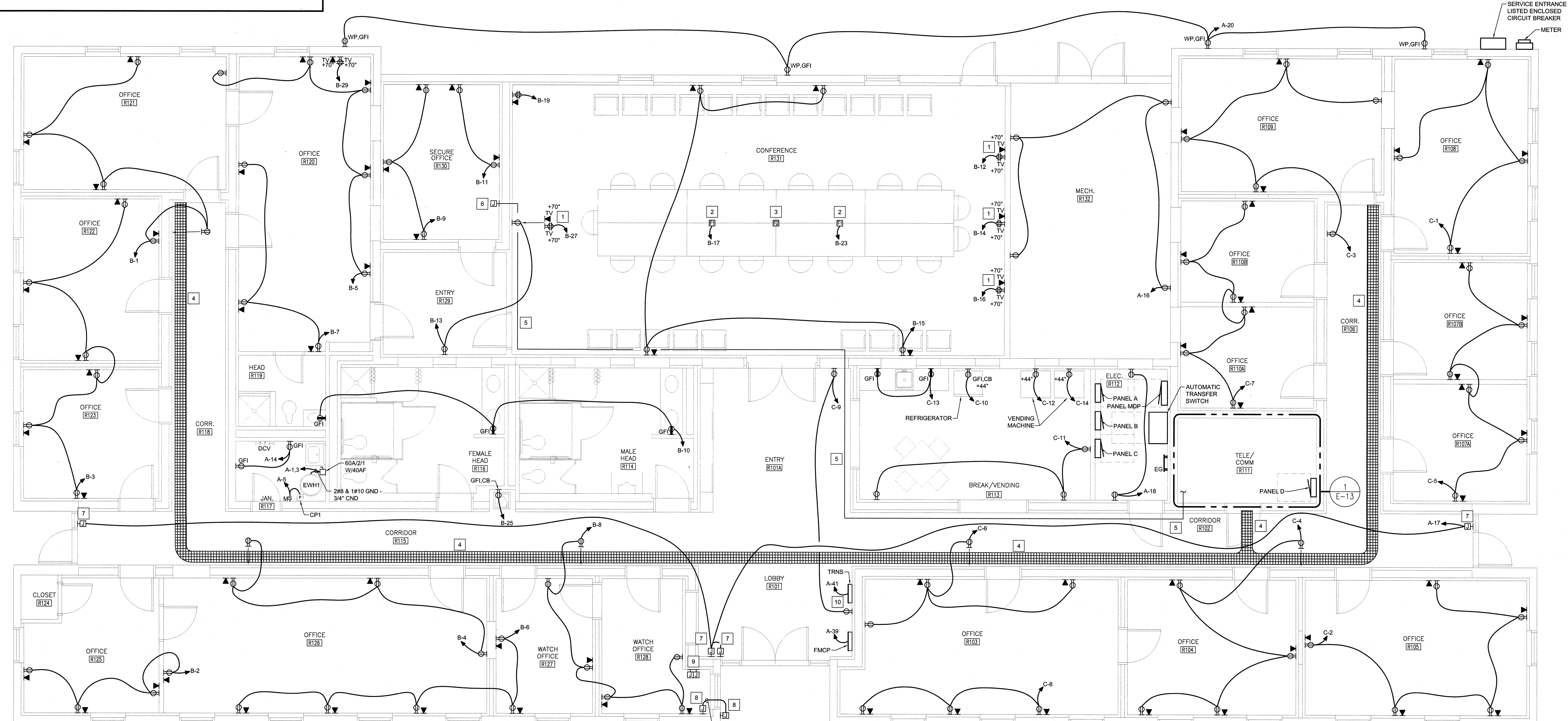
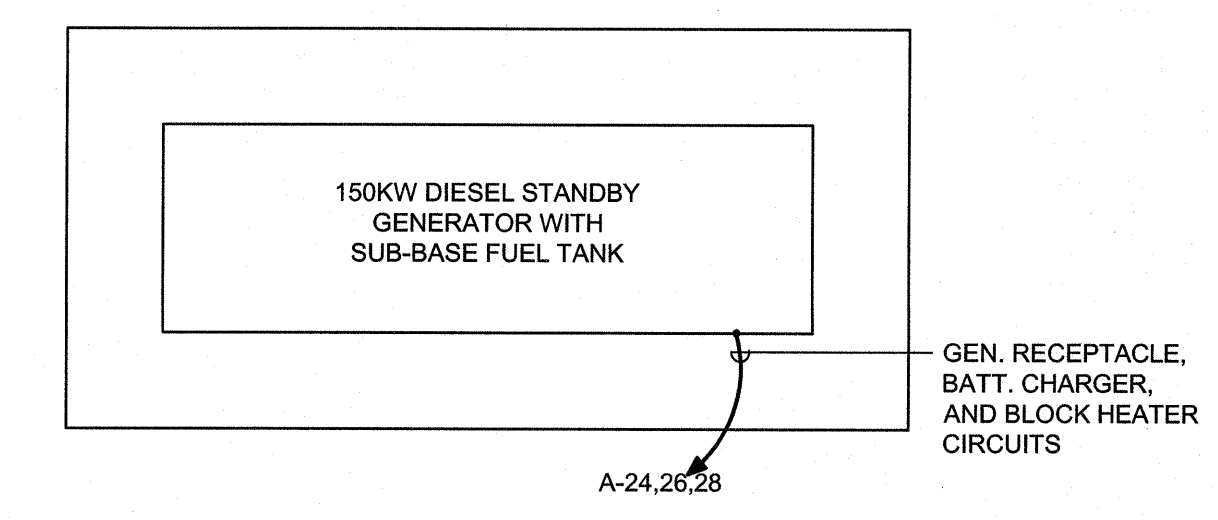
SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

	SHEET TITLE: ELECTRICAL SITE PLAN		E-10
	2248 Yaupon Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.9266 www.cbhfindesign.com		
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150		INT. & EXT. REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA
	DES. RRD DR. RRD CHK. JPF SUBMITTED BY: DESIGN DR. T.H. BURTON, PE		
APPROVED: _____ DATE: _____ SATISFACTORY TO: _____ DATE: _____		CONST. CONTR. NO. N40085-19-D-0025 SCALE: NOTED SPEC. 05-19-0025	SHEET 55 OF 59

CONSTRUCTION KEYED NOTES

- 1 PROVIDE 1-1/2" CONDUIT FROM TELEVISION TO EACH FLOOR BOX UNDER CONFERENCE ROOM TABLE. PROVIDE BOX BEHIND TELEVISION ACCESSIBLE FROM MECHANICAL ROOM FOR CABLING.
- 2 PROVIDE 6 GANG FLOOR BOX. FLOOR BOX MUST HAVE TWO QUAD RECEPTACLES, DATA CAPABILITIES WITH METAL IN-USE COVER. PROVIDE ALL ACCESSORIES TO ACCEPT DATA CONDUITS AND DEVICES.
- 3 PROVIDE 1-1/2" CONDUIT WITH PULL STRINGS FROM EACH TELEVISION TO 8 GANG FLOOR BOX IN THIS LOCATION WITH METAL IN-USE COVER. PROVIDE ALL ACCESSORIES TO ACCEPT DATA CONDUITS AND DEVICES. COORDINATE CONNECTION DEVICES WITH COMMANDING OFFICER PRIOR TO ORDERING.
- 4 12" WIDE BASKET CABLE TRAY ROUTED ABOVE THE CEILING AS SHOWN.
- 5 PDS CONDUIT SUSPENDED BELOW THE CEILING WITHIN OBSERVATION/VERIFICATION FROM BELOW.
- 6 LOCKABLE PDS TERMINATION BOX MOUNTED ON THE WALL. COORDINATE THE EXACT LOCATION WITH THE OWNER PRIOR TO INSTALLATION.
- 7 JUNCTION BOX FOR ACCESS CONTROL POWER LOCATED ADJACENT TO THE DOOR ACCESSIBLE ABOVE THE CEILING.
- 8 JUNCTION BOX AND CONDUIT FOR INTERCOM SYSTEM. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT.
- 9 JUNCTION BOXES FOR ACCESS CONTROL SWITCH(S) FOR DOOR CONTROL PROVIDED BY OTHERS. PROVIDE 3/4" CONDUIT TO ABOVE THE CEILING AT EACH DOOR LOCATION. COORDINATE REQUIREMENTS AND MOUNTING HEIGHT WITH PURCHASED EQUIPMENT AND INSTALLER.
- 10 PROVIDE 2 DEDICATED PHONE LINES FOR FIRE ALARM EQUIPMENT IN THIS LOCATION.

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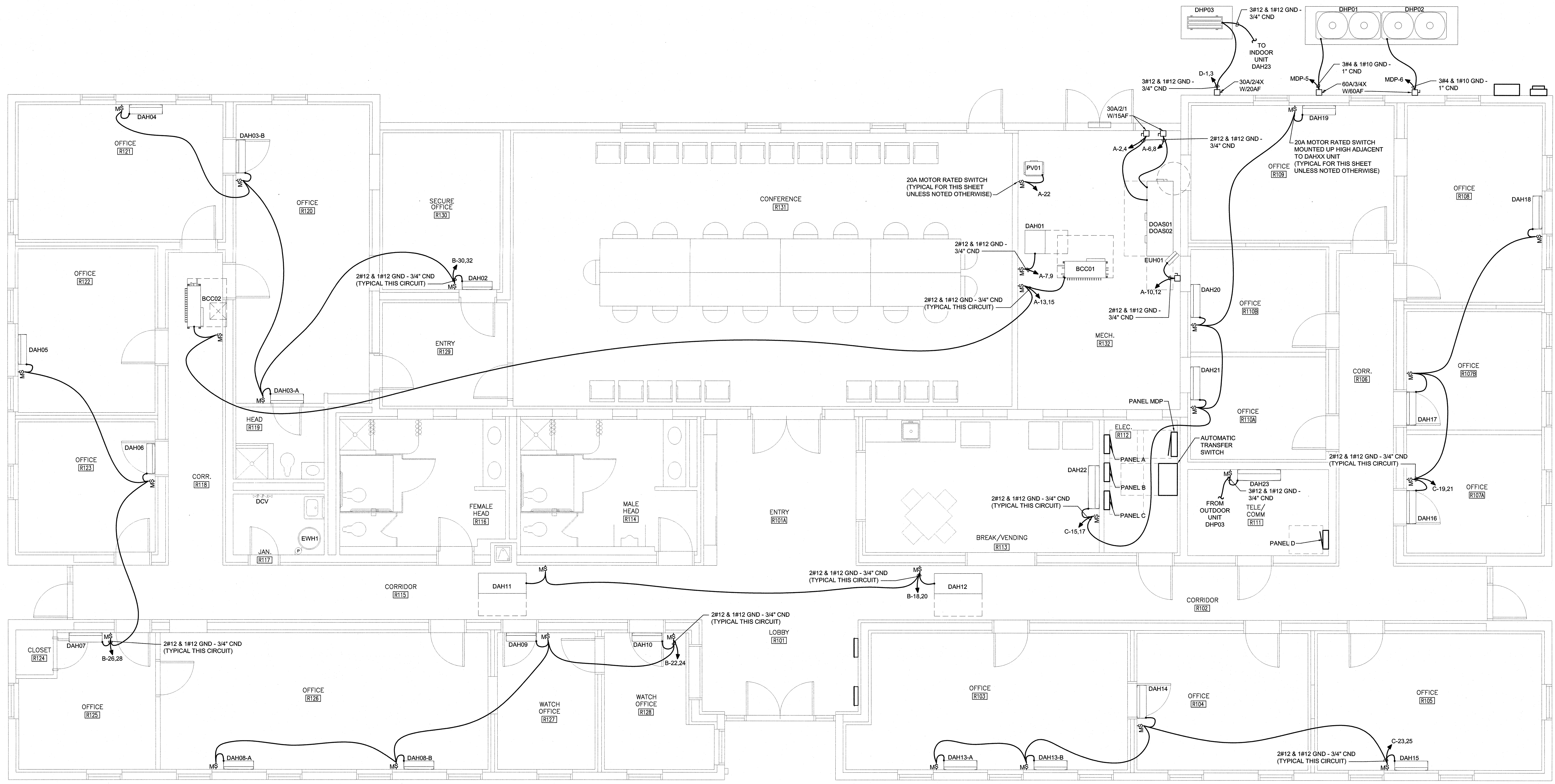


1" CONDUIT FOR INTERCOM SYSTEM. COORDINATE EXACT REQUIREMENTS AND LOCATIONS WITH PURCHASED EQUIPMENT

SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

CBHF Engineers, PLLC 2246 Yaupon Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.5266 www.cbhfindesign.com	SHEET TITLE: ELECTRICAL POWER FLOOR PLAN		E-11
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150		
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA		INT. & EXT. REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA	
DES. RRD DR. RRD CHK. JPF SUBMITTED BY: DESIGN DR. T H BURTON, PE		APPROVED: _____ DATE _____ Satisfactory To: _____ DATE _____	
CODE IDENT. NO. 80091 CONST. CONTR. NO. N40085-19-D-0025		NAVFAC DRAWING NO. 60024555 SCALE: NOTED SPEC. 05-19-0025 SHEET 56 OF 59	

REVISIONS		
SYM.	DATE	APPROVED

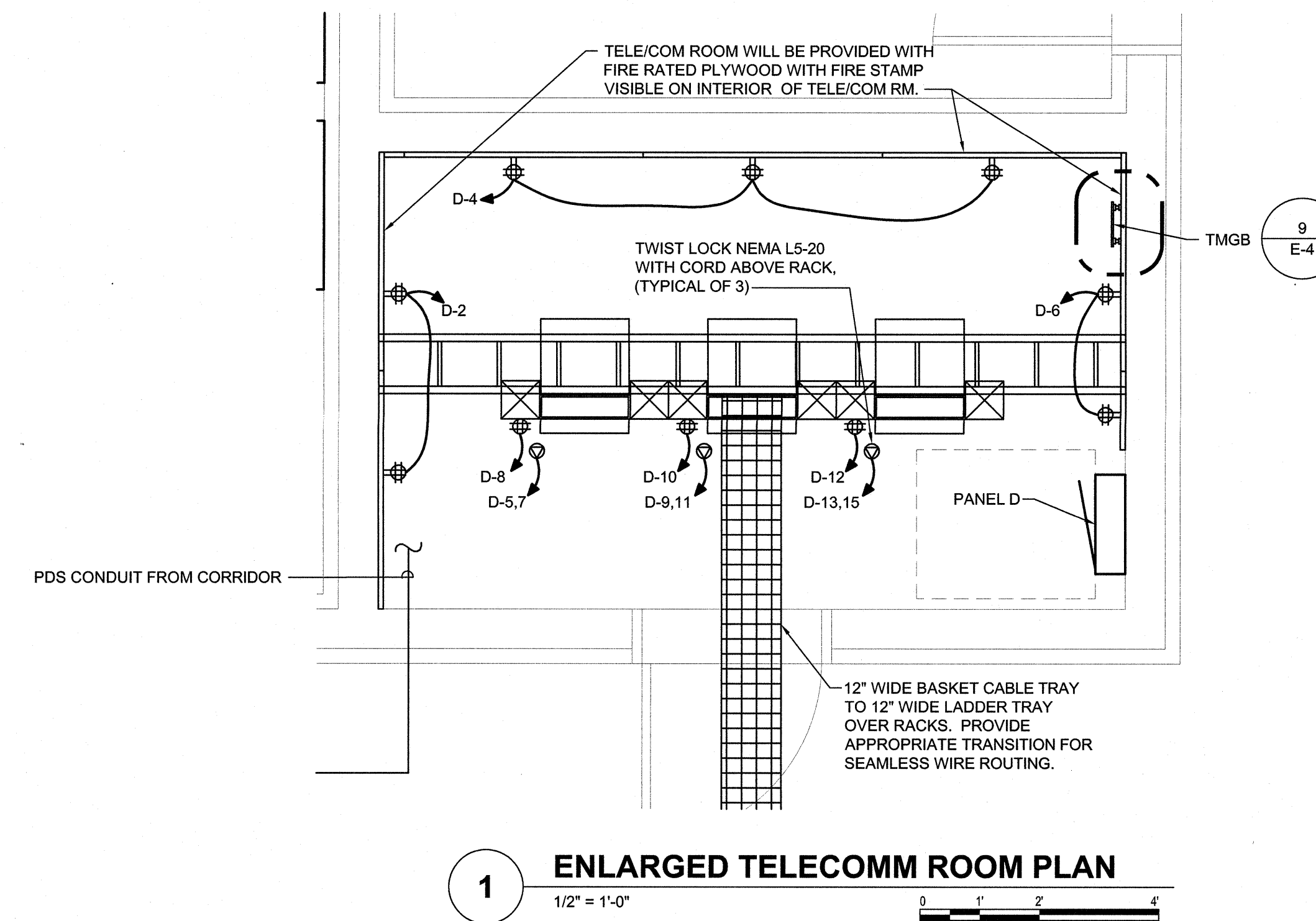


1 MECHANICAL EQUIPMENT POWER PLAN
 1/4" = 1'-0"

SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

CBHF Engineers, PLLC 2248 Yaupon Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.5266 www.cbhfengineers.com	SHEET TITLE: ELECTRICAL MECH. EQUIP. POWER PLAN		E-12
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150		
	DES. RRD DR. RRD CHK. JPF SUBMITTED BY: DESIGN DIR. T H BURTON, PE		DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
	APPROVED: [Signature] DATE: [Blank] SATISFACTORY TO: [Blank] DATE: [Blank]		INT. & EXT. REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA
SCALE: NOTED		SPEC. 05-19-0025	SHEET 57 OF 59

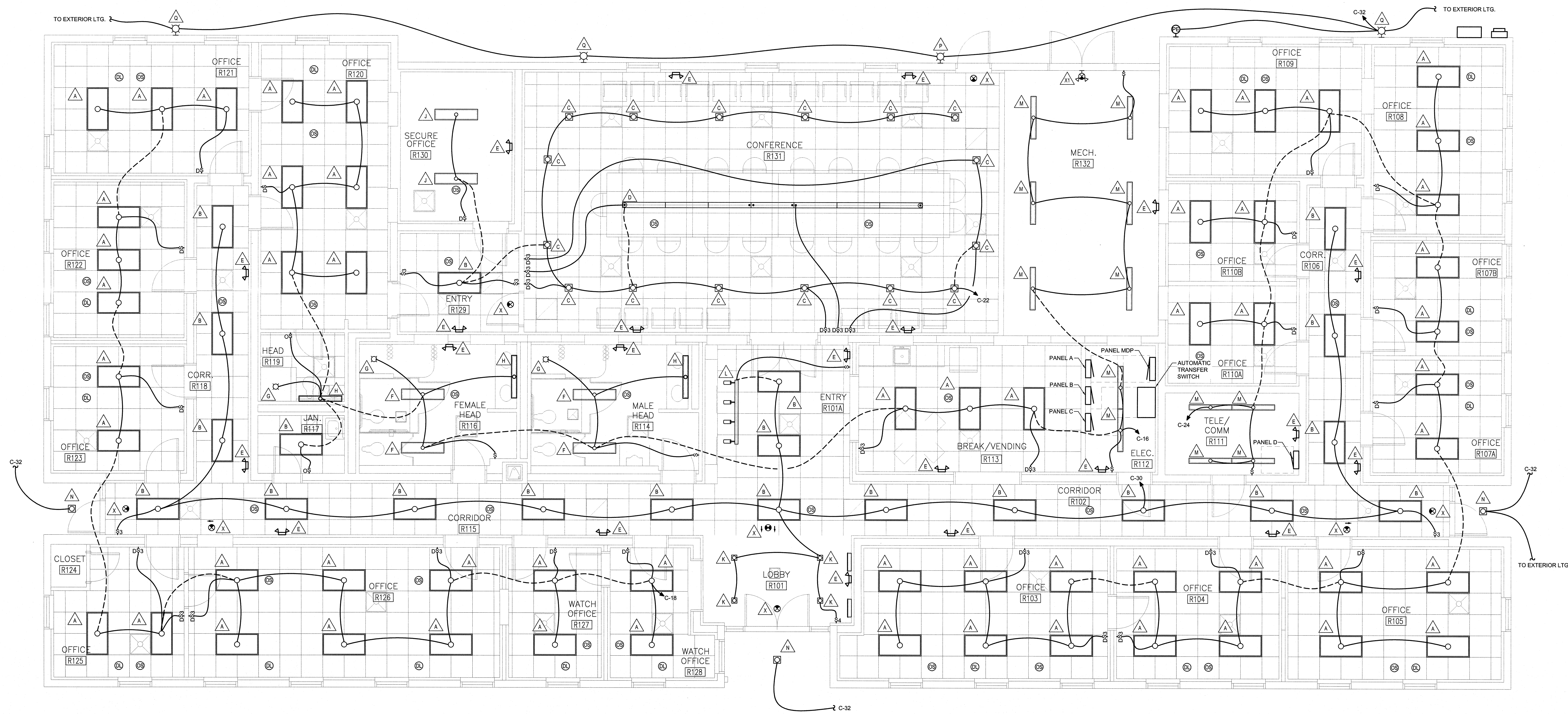
REVISIONS		
SYM.	DATE	APPROVED



SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

CBHF Engineers, PLLC 2248 Youpon Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.5266 www.cbhfenr.com	SHEET TITLE: ELECTRICAL ENLARGED POWER PLANS		E-13
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150		
	DES. RRD DR. RRD CHK. JPF SUBMITTED BY: DESIGN DIR. T H BURTON, PE		DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
	APPROVED: _____ DATE: _____ SATISFACTORY TO: _____ DATE: _____		INT. & EXT. REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA
NAVFAC DRAWING NO. 60024557 CONST. CONTR. NO. N40085-19-D-0025		SCALE: NOTED SPEC: 05-19-0025 SHEET 58 OF 59	

REVISIONS		
SYM.	DATE	APPROVED



1 LIGHTING PLAN
 1/4" = 1'-0"
 0 2 4 6

SEE DISCLOSURE OF INFORMATION STATEMENT ON SHEET T-1

CBHF Engineers, PLLC 2246 Yaupon Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.8286 www.cbhfenr.com	SHEET TITLE: ELECTRICAL LIGHTING FLOOR PLAN		E-14
	TALLEY & SMITH ARCHITECTURE INC. P.O. BOX 518 SHELBY, NC 28151-0518 409 EAST MARION ST. SHELBY, NC 28150		
	DES. RRD DR. RRD CHK. JPF SUBMITTED BY: DESIGN DIR. T.H. BURTON, PE		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
	APPROVED: _____ DATE: _____ SATISFACTORY TO: _____ DATE: _____		INT. & EXT. REPAIRS BLDG. M131 CAMP LEJEUNE, NORTH CAROLINA
CODE IDENT. NO. 80091 NAVFAC DRAWING NO. 60024558 CONST. CONTR. NO. N40085-19-D-0025		SHEET 59 OF 59	